THE PRESIDIO TRUST

March 10, 2009

Ms. Agnes Farres
Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Subject: Construction Completion Report
Building 1065 CAP Area
Presidio of San Francisco, California

Dear Ms. Farres:

Enclosed are hard and electronic copies of the *Construction Completion Report, Corrective Action Plan (CAP) Implementation, Building 1065 Area* dated March 10, 2009. This report documents the remedial actions conducted in accordance with the *Final CAP* (Mactec, 2007) and Water Board Order R2-2003-0800. We continue to conduct post-remediation groundwater monitoring at the site and will submit for site closure based on the data results.

If you have any questions or comments, feel free to call Ryan Seelbach at (415) 561-5082 or me at (415) 561-4259.

Sincerely,

Eileen Fanelli

Eileen Fanelli
Remediation Program Manager

Enclosure:

cc: Robert Boggs, DTSC
Brian Ullensvang, NPS
Doug Kern and Mark Youngkin, RAB

34 Graham Street, Post Office Box 29052, San Francisco, California 94129-0052
415/561-5300 Fax 561-5315 presidio@presidiotrust.gov

MACTEC

engineering and constructing a better tomorrow

March 6, 2009

Ryan Seelbach
The Presidio Trust
67 Martinez Street
San Francisco, California 94129

Subject: **Construction Completion Report**
Corrective Action Plan Implementation
Building 1065 Area
Presidio of San Francisco, California
MACTEC Project 4084075115 03.2

Dear Mr. Seelbach:

Enclosed please find two copies of the *Construction Completion Report, Corrective Action Plan Implementation, Building 1065 Area, Presidio of San Francisco, California*, dated March 2009. We also enclose a CD of the report.

We have distributed additional copies to DTSC, Water Board, NPS, and Presidio RAB per your cover letter.

If you have questions, please contact Mary Jo Heassler at 530-271-2279 or Michael Jacobvitz at 707-793-3853.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.

Mary Jo Heassler
Senior Geologist

Michael Jacobvitz
Senior Project Manager

MJH/MJ/mlb:KB62799_LOT.doc-Presidio

Enclosures

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300 • Petaluma, CA 94954 • Phone: 707.793.3800 • Fax: 707.793.3900
www.mactec.com

Construction Completion Report
Corrective Action Plan Implementation
Building 1065 Area
Presidio of San Francisco, California

Prepared for

The Presidio Trust
67 Martinez Street
San Francisco, California

MACTEC Project No. 4084075115 03.3

Scott R. Graham
Project Geologist

Mary Jo Heassler, P.G.
Senior Geologist

Michael Jacobvitz, P.G.
Senior Project Manager

March 10, 2009

MACTEC
Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954 - (707) 793-3800

Construction Completion Report
Corrective Action Plan Implementation
Building 1065 Area
Presidio of San Francisco, California

MACTEC Project No. 4084075115 03.3

This document was prepared by MACTEC Engineering and Consulting, Inc. (MACTEC) at the direction of the Presidio Trust (Trust), for the sole use of the Trust, the National Park Service, and regulatory agencies, the only intended beneficiaries of this work. No other party should rely on the information contained herein without the prior written consent of the Trust. This report and the interpretations, conclusions, and recommendations contained within are based in part on information presented in other documents that are cited in the text and listed in the references. Therefore, this report is subject to the limitations and qualifications presented in the referenced documents.

CONTENTS

ACRONYMS vi

EXECUTIVE SUMMARY viii

1.0 INTRODUCTION 1-1

1.1 Purpose of Report 1-1
1.2 Purpose and Scope of the Corrective Action 1-1
1.3 Roles and Responsibilities 1-3

2.0 EXCAVATION ACTIVITIES 2-1

2.1 Sequence of Work 2-1
2.2 Documentation 2-2
2.3 Stakeholder Meetings 2-2
2.4 Description of Excavation Activities 2-2
2.4.1 Surveying 2-2
2.4.2 Mobilization and Clearance Work 2-3
2.4.3 Shoring and Demolition 2-3
2.4.4 Excavation Dewatering and Wastewater Disposal 2-4
2.4.5 Excavation and Confirmation Soil Sampling 2-5
2.4.5.1 Excavation 3 (October 27, 2007 through November 14, 2007) 2-6
2.4.5.2 Excavation 2 (November 12, 2007 through November 21, 2007) 2-8
2.4.5.3 Excavation 1 (March 3 through 26, 2008) 2-10
2.4.5.4 Evaluation of Alternatives to Remediate Contamination Beneath Southern Wall of Building 1063 2-12
2.4.5.5 Removal of Former Sewer Line (May 9 and 13, 2008) 2-13
2.4.6 Excavation Backfilling 2-14
2.4.7 Soil Profiling and Disposal 2-15
2.5 Laboratory Analysis and Data Validation 2-16

3.0 INSTALLATION AND DEVELOPMENT OF MONITORING WELLS AND GROUNDWATER MONITORING 3-1

3.1 Installation and Development of Monitoring Wells 3-1
3.2 Groundwater Monitoring 3-1
3.2.1 Pre-Excavation Groundwater Monitoring 3-1
3.2.2 Initial Round of Post Excavation Groundwater Monitoring 3-2
3.2.3 CAP Groundwater Monitoring Program 3-2

4.0 OUTDOOR CAP INSPECTION 4-1

5.0 INDOOR AIR ASSESSMENT AND CAP INSPECTION 5-1

5.1 Soil Gas Sampling and Analysis 5-1
5.2 Indoor Cap Assessment 5-1

6.0 LAND USE CONTROLS 6-1

7.0 SUMMARY 7-1

8.0 REFERENCES 8-1

TABLES

1-1 Cleanup Levels for Soil
2-1 Summary of CAP Implementation Activities
2-2 Summary of Stakeholder Meetings
2-3 Wastewater Analytical Results and Discharge Limits
2-4 Sampling Program Summary
2-5 Sediment Sample Results - TPH, Former Sewer Line - Excavation 3
2-6 Sediment Sample Results - PAHs, Former Sewer Line - Excavation 3
2-7 Sediment Sample Results - VOCs, Former Sewer Line - Excavation 3
2-8 Sediment Sample Results - Metals, Former Sewer Line - Excavation 3
2-9 Confirmation Sample Analytical Results - TPH
2-10 Confirmation Sample Analytical Results - PAHs
2-11 Confirmation Sample Analytical Results - VOCs
2-12 Confirmation Sample Analytical Results - Metals
2-13 Backfill Sample Results - TPH and BTEX
2-14 Backfill Sample Results - Pesticides
2-15 Backfill Sample Results - Herbicides
2-16 Backfill Sample Results – Metals
2-17 Backfill Sample Results – PAHs

FIGURES

1-1 Site Location Map
1-2 Site Plan and Remedial Units
1-3 Project Organization
2-1 Excavation Limits and Excavation Sample Locations
2-2 Excavation Sidewall Cross-Sections
2-3 Excavation Sidewall Cross-Sections
6-1 Land Use Control Areas

APPENDICES (PROVIDED ON DVD)

A PHOTOGRAPHS – BUILDING 1063 EXCAVATIONS
B PROGRESS REPORTS
C SURVEY DATA
D LABORATORY REPORTS – CONFIRMATION SOIL, WASTEWATER, AND BACKFILL SAMPLES
E EVALUATION OF ALTERNATIVES FOR REMEDIATON BENEATH BUILDING 1063
F COMPACTION TEST RESULTS
G LABORATORY REPORTS – SOIL STOCKPILE SAMPLING
H WASTE PROFILES, DISPOSAL RECEIPTS, AND MANIFESTS
I LEVEL II, LEVEL III, AND LEVEL IV QUALITY CONTROL SUMMARY REPORTS
J
- J1 MONITORING WELL DESTRUCTION, INSTALLATION, AND DEVELOPMENT, BUILDING 1065 AREA, PRESIDIO OF SAN FRANCISCO, SAN FRANCISCO, CALIFORNIA
- J2 SUMMARY TABLES FROM BASEWIDE GROUNDWATER MONITORING PROGRAM
- J3 MEMORANDUM - REVIEW OF GROUNDWATER MONITORING RESULTS, PRE-EXCAVATION MONITORING, BUILDING 1065 AREA, PRESIDIO OF SAN FRANCISCO, CALIFORNIA

K OUTDOOR CAP INSPECTION FORM AND PHOTOGRAPHS
L BUILDING 1040 VAPOR INTRUSION ASSESSMENT AND FIELD SAMPLING REPORT
M ADDENDUM TO LUCMRR

ACRONYMS

AB	aggregate base
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAP	Corrective Action Plan
CCAs	Comprehensive certificates of analysis
COCs	chemicals of concern
CCR	California Code of Regulations
C&T	Curtis & Tompkins, Ltd.
cy	cubic yards
DTSC	Department of Toxic Substances Control
EKI	Erler and Kalinowski, Inc.
ERRG	Engineering/Remediation Resources Group, Inc.
ESLs	Environmental Screening Levels
ft	feet
Gregg	Gregg Drilling and Testing
HASP	Site Specific Health and Safety Plan
HDPE	high density polyethylene
IA	Interim Action
ID	inner diameter
LUCs	land use controls
LUCMRR	Land Use Control Master Reference Report
MACTEC	MACTEC Engineering and Consulting, Inc.
mg/kg	milligrams per kilogram
µg/L	micrograms per liter
NEPA	National Environmental Policy Act
NHL	National Historic Landmark
NHPA	National Historic Preservation Act
NPS	National Park Service
ORC	oxygen releasing compound
PAHs	polynuclear aromatic compounds
PCBs	polychlorinated biphenyls
PICs	Public Information Coordinators
PID	photo-ionization detector

Presidio	Presidio of San Francisco, California
PVC	polyvinyl chloride
PTMP	Presidio Trust Management Plan
QA	quality assurance
QC	quality control
QAPP	Presidio-Wide Quality Assurance Project Plan
RAB	Restoration Advisory Board
RAOs	remedial action objectives
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
RUs	remedial units
Site	Building 1065 Area
STLC	Soluble Threshold Limit Concentration
T&R	Treadwell and Rollo, Inc
TPH	total petroleum hydrocarbons
TPHg	total petroleum hydrocarbons as gasoline
TRPH	Total Recoverable Petroleum Hydrocarbons
Trust	Presidio Trust
UCL	upper confidence limit
URS	URS Corporation
USACE	U.S. Army Corp of Engineers
USEPA	U.S. Environmental Protection Agency
UXO	unexploded ordnance
VMP	Vegetation Management Plan
VOCs	volatile organic compounds
Water Board	California Regional Water Quality Control Board

EXECUTIVE SUMMARY

This report was prepared by MACTEC Engineering and Consulting, Inc. (MACTEC) on behalf of the Presidio Trust (Trust) to document corrective actions at the Building 1065 Area (the Site) as described in the *Final Corrective Action Plan, Building 1065 Area, Presidio of San Francisco, California* (CAP), dated January 24, 2007 (*MACTEC, 2007a*), and *Addendum to the Final Corrective Action Plan,* (*Trust, 2008*). The corrective action was implemented to address soil and groundwater contamination that was related to or co-located with releases of petroleum hydrocarbons from past uses of the Site.

In the CAP, three remedial units (RUs) -A, -B, and -C were identified at the Site based on the presence and concentrations of chemicals of concern (COCs) in soil and groundwater. The CAP selected alternative included the following major elements: 1) excavation and offsite disposal of impacted soil at one remedial unit (RU)-A, 2) groundwater monitoring, 3) outdoor cap inspection at a second remedial unit RU-C, 4) indoor air and cap assessment at RU-C, 5) land use controls (LUCs), and 6) a five year review. Remedial action associated with fill material at RU-B was not addressed in the CAP and will be addressed under the remedial action plan for Fill Site 6B. At RU-A, soil was removed from three excavations numbered 1 through 3. The excavation identification was based on excavation areas identified in the work plan, and the excavations were not completed in numerical order.

Corrective action activities were conducted at the Site between October 15, 2007 and June 10, 2008. The corrective action was performed in general accordance with the *Technical Specifications and Drawings, Corrective Action Plan Implementation* (Technical Specifications; *MACTEC, 2007b*), the *Final Corrective Action Implementation Work Plan* (Work Plan) (*MACTEC, 2007c*), and the *Petroleum Contingency Plan* (*EKI, 2004*).

At RU-A, approximately 1,840 tons of soil were excavated from Excavations 1, 2, and 3, within, north, and south of Building 1063 and disposed offsite at a Class I landfill. In addition, approximately 160 tons of soil were excavated from a trench in the parking lot west of Building 1063 and disposed offsite at a Class II landfill. Confirmation soil samples were collected from the excavations to confirm that soil containing COCs above Site cleanup levels was removed. Confirmation sampling at RU-A showed that Site cleanup levels were met except for two areas where petroleum-impacted soil was not removed because contaminated soil extended beneath bearing walls or it appeared that contaminants were related to fill material and not a release of petroleum fuels. These two areas included: 1) soil beneath the southern wall of Building 1063, and 2) on the north side of Building 1063 (adjacent to Fill Site 6B). For

these areas, the Trust proposes to implement LUCs to inform and protect future users/occupants of the Site concerning the presence of residual contaminants in soil above Site cleanup levels.

At RU-C, an indoor air and cap assessment was performed that included collecting and analyzing soil vapor samples from locations around Building 1040 and inspecting the interior of the building for visible cracks, penetrations, and gaps that could potentially allow for direct contact with COCs in soil under the building. Results of the assessment indicated that 1) risks associated with residual petroleum hydrocarbons and related constituents in soil gas at RU-C are within acceptable risk ranges, 2) the floor and basement wall in the vicinity of residual petroleum hydrocarbons in soil provide a barrier to prevent direct contact with the underlying soil, and 3) no further action with regard to vapor intrusion mitigation was recommended.

For the areas of the site (including RU-C) where LUCs will be implemented, an outdoor cap inspection was performed to examine and document the existing surface outside the footprint of Building 1040 as well as document conditions in two other areas of the site where concentrations of COCs above Site cleanup levels remain in soil. No further surface improvements were recommended; however, it was recommended that the LUC Zones at the Site be inspected annually and inspections documented and information managed under the Presidio Trust LUC Program.

A new monitoring well was installed downgradient of RU-A and groundwater monitoring was performed in the new well and pre-existing wells and piezometers prior to and following excavation at RU-A. Analytical results for groundwater samples collected following excavation exhibited little change from the values reported from the groundwater samples collected prior to excavation. Samples collected from wells downgradient of RU-A did not show detectable concentrations of the groundwater COCs total petroleum hydrocarbons as gasoline (TPHg) and benzene. Arsenic was detected above the 10 micrograms per liter (µg/L) Site cleanup level in two downgradient wells 1065MW101A (at 32 µg/L) and 1065MW102A (at 11 µg/L), but was detected below the Site cleanup level in downgradient well 1065MW103A (concentration of 5.8 µg/L).

Based on results of excavation confirmation soil sampling, indoor and outdoor cap inspections, soil gas sampling, pre-and post groundwater monitoring, and the planned land use controls, the corrective action implementation meets remedial action objectives identified in the CAP.

In accordance with the CAP, groundwater monitoring will be performed quarterly for one year for TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), arsenic, and redox parameters; semi-annually

thereafter for TPHg and BTEX; and annually thereafter for arsenic and redox parameters. After TPHg, BTEX, and arsenic are demonstrated to be below Site cleanup levels for four consecutive sampling rounds, monitoring will be discontinued (subject to California Regional Water Quality Control Board [Water Board] approval), and clean closure with regard to groundwater contamination will be documented in a site closure request. In accordance with the Water Board Order, a Five-Year Status Report, which evaluates the effectiveness of this CAP for groundwater, will be completed and submitted to the Water Board for approval.

Prior to occupation of Building 1063, the Trust will conduct a soil vapor assessment to evaluate potential human health risks from vapor intrusion to indoor air from residual contaminants in soil. If results of the soil vapor assessment show risks to future building occupants, the Trust will consult with the Water Board and stakeholders concerning alternatives for mitigation and/or remediation of the contaminated soil left in place.

1.0 INTRODUCTION

1.1 Purpose of Report

This Construction Completion Report for Corrective Action Plan Implementation at the Building 1065 Area (Completion Report) has been prepared by MACTEC Engineering and Consulting, Inc. (MACTEC) on behalf of the Presidio Trust (Trust) to document work performed and results of the corrective action program at the Building 1065 Area, Presidio of San Francisco, California (the Site). Remedial work was performed between October 15, 2007 and June 10, 2008 in general accordance with the *Final Corrective Action Plan, Building 1065 Area* (CAP), *Addendum to the Final Corrective Action Plan*, (*Trust, 2008*), *Technical Specifications and Drawings, Corrective Action Plan Implementatio*n (Technical Specifications), the *Final Corrective Action Implementation Work Plan* (Work Plan) (*MACTEC, 2007a,b, and c*), *Presidio-Wide Quality Assurance Project Plan, Sampling and Analysis Plan* (QAPP) (*Tetra Tech, 2001*), and the *Petroleum Contingency Plan* (*EKI, 2004).*

A description of the Site, site geology and hydrology, chemicals of concern (COCs), description of remedial units (RUs), Site cleanup levels, and selected remedies are provided in the CAP and Work Plan. The location of the site is shown on Figure 1-1 and building locations and select site features are shown on Figure 1-2.

1.2 Purpose and Scope of the Corrective Action

The corrective action was implemented to address soil and groundwater contamination that was related to or co-located with releases of petroleum hydrocarbons from past uses of the Site. The remedial action objectives (RAOs) of the CAP included: 1) protection of human health and the environment; 2) cost-effective cleanup of the Site consistent with its potential land use; 3) recycling excavated materials to the extent practicable; 4) compliance with State and Federal environmental laws; 5) consistency of the selected corrective action alternatives at the Site with the overall transformation of the Presidio into a national park site; and 6) preference for permanent ("clean closure") remedies whenever practicable, cost-effective, and consistent with current or anticipated land use.

In the CAP, site-specific cleanup levels were developed and COCs were identified based on chemicals detected in soil and groundwater above site-specific cleanup levels. Cleanup levels for COCs identified in the CAP and related compounds are presented in Table 1-1. Based on the presence of COCs above Site

cleanup levels, three RUs were identified. The three RUs and recommended corrective actions to address contamination at each RU are summarized below:

1. RU-A: RU-A is located beneath, north, and south of Building 1063. RU-A comprised soil and groundwater in the vicinity of Building 1063 that was impacted by petroleum hydrocarbons, volatile organic compounds (VOCs), polycylic aromatic hydrocarbons (PAHs), and metals. As shown on Figure 1-2, RU-A is bounded to the south by the boundaries of a previous excavation that was performed in 2003 and 2004 as part of an Interim Action (IA). The recommended alternative for RU-A was excavation and offsite disposal of soil, application of in-situ oxygen release product as necessary, and groundwater monitoring until results show that petroleum-related COCs are below Site cleanup levels for four consecutive sampling rounds.

   Building 1063, constructed in 1941, is considered a historic structure of contributive value to the National Historic Landmark (NHL) and therefore, has been designated to be preserved. The building comprises a concrete slab floor, axial gable roof, roof support columns on 12-foot spacings, and walls composed of corrugated iron. The planned future use of the building is commercial.

2. RU-B: RU-B comprised an area of debris fill in the northwestern portion of the Site. Because the areal extent of COCs in shallow soil at RU-B had not been fully delineated, a corrective action alternative was not selected for RU-B in the CAP. Further investigation, evaluation, and selection of a remedial alternative will be addressed in the Remedial Action Plan (RAP) for Fill Site 6B.

3. RU-C: RU-C comprised soil impacted by petroleum hydrocarbons in the vicinity of Building 1040. The recommended alternative for Soil RU-C was capping and LUCs to inform and protect future users of the building concerning the presence of COCs in soil above Site cleanup levels.

   Building 1040 was constructed in 1920, and formerly operated as a power house/steam plant. The building is a historic structure, and is of contributive value to the NHL and therefore has been designated to be preserved.

Figure 1-2 shows the location of the three RUs identified in the CAP.

The corrective action described in this Completion Report includes: 1) excavation work performed at RU-A, 2) installation of groundwater monitoring wells at RU-A, 3) pre-excavation groundwater

monitoring, and the first round of post-excavation groundwater monitoring at the Site, 4) results of the initial outdoor cap inspection at RU-C, 5) results of the soil vapor assessment and indoor cap inspection at RU-C, and 6) LUCs for the Site as described in a site-specific addendum to the Land Use Control Master Reference Report (LUCMRR; *Trust, 2006*).

1.3 Roles and Responsibilities

Key project team members included the Trust as the Construction Manager; MACTEC which provided field oversight and collected confirmation samples during excavation, performed the outdoor cap inspection, documented remedial work performed in accordance with the CAP, and prepared the LUCMRR Addendum; Engineering/Remediation Resources Group, Inc. (ERRG) which served as the Remediation Contractor; Treadwell and Rollo, Inc (T&R) which abandoned, installed, developed, and sampled groundwater monitoring wells; and Erler and Kalinowski, Inc. (EKI) which conducted the vapor intrusion assessment and indoor cap inspection at Building 1040. Figure 1-3 shows the project organization chart. The California Regional Water Quality Control Board (Water Board) served as the lead agency providing regulatory oversight. Other stakeholders that participated in decisions during project planning and implementation included the National Park Service (NPS), the California Department of Toxic Substances Control (DTSC), and the Restoration Advisory Board (RAB).

2.0 EXCAVATION ACTIVITIES

This section describes activities preformed as part of the excavation portion of the remedy selected for RU-A. Excavation work was performed by ERRG at the direction of the Trust and included mobilization, surveying, clearance, shoring, demolition, backfilling, stockpile profiling, soil disposal, and demobilization activities. MACTEC was onsite during excavation and collected soil confirmation samples from the excavations.

2.1 Sequence of Work

Pre-excavation activities included a pre-excavation survey on July 6, 2007 and a kickoff meeting on June 21, 2007 among the Trust, MACTEC, and ERRG (the project team) and the NPS, DTSC, and/or RAB members (stakeholders), and the Water Board,. Excavation work included removal of soil from three excavations in RU-A (Excavations 1 through 3) and removal of an abandoned sewer line from a parking area west of RU-A. The excavations were not completed in numerical order; excavation work began on October 29, 2007 with installation of shoring and excavation of soil from an area on the south side of Building 1063 (Excavation 3), including removal of a portion of an abandoned sewer line that was encountered in the west end of Excavation 3. Following completion of Excavation 3, soil was excavated from an area north of Building 1063 (Excavation 2). Excavations 2 and 3 were backfilled between December 19, 2007 and January 21, 2008, with concurrence from the Water Board and stakeholders and after the excavation limits were surveyed on December 12, 2007.

Soil was excavated from the interior of Building 1063 (Excavation 1) after the building support columns within the proposed excavation area were replaced with temporary support columns. Following completion of Excavation 1, meetings were held with the Water Board and stakeholders to evaluate options for addressing contaminated soil beneath the southern wall of Building 1063. During these meetings, it was agreed that the impacted soil would remain in place and that the Trust would implement a LUC for this portion of the Site. On March 26, 2008, the limits of Excavation 1 were surveyed. Excavation 1 was backfilled between March 27 and April 9, 2008.

Soil stockpiles were removed from the site between April 30 and May 2, 2008 and on June 16 and June 27, 2008. Between May 9 and 23, approximately 68 feet of the abandoned sewer pipeline was removed. After concurrence from the Water Board and stakeholders, the piping excavation was backfilled. A final survey was conducted of the area on August 7, 2008.

The following sections provide additional detail concerning work activities and procedures followed during excavation work at the Site. A summary of corrective action activities and the approximate start and end dates of each activity are provided in Table 2-1.

2.2 Documentation

When onsite, field activities and observations were documented by a MACTEC field representative in a Daily Field Log and by taking digital photographs. A representative selection of photographs documenting excavation work is included in Appendix A. In addition, MACTEC provided progress reports to the Trust that presented a summary of work performed during the reporting period, issues and/or scope deviations, project milestones achieved, planned work, and discussion points for the next scheduled stakeholder meeting. Progress reports are included in Appendix B.

2.3 Stakeholder Meetings

The Trust held a pre-construction meeting on June 21, 2007 to provide the Water Board and stakeholders with an overview of the approach for implementation of the excavation portion of the CAP. Following the June 21 pre-construction meeting, periodic progress meetings were also held to update the Water Board and stakeholders as to the progress of work, present and discuss excavation confirmation sampling results, and obtain Water Board and stakeholder input and concurrence concerning actions necessary to meet corrective action objectives. Following meetings, minutes were distributed to meeting attendees by electronic mail. Eleven progress meetings were held with the Water Board and stakeholders between October 30, 2007 and May 27, 2008. Table 2-2 presents a summary of discussion topics and key agreements made during the meetings.

2.4 Description of Excavation Activities

The following sections describe work activities performed during excavation work.

2.4.1 Surveying

A pre-excavation survey of the Site was conducted on July 6, 2007. A second survey was conducted on December 12, 2007 after Excavations 2 and 3 had been completed, and a third survey was conducted on March 26, 2008 after completion of Excavation 1. After the three excavations were backfilled and the site restored in accordance with specifications, a post-construction survey was performed on August 7, 2008. Surveying was performed by PLS Surveys, Inc. of Oakland under subcontract to ERRG; survey data are provided in Appendix C.

2.4.2 Mobilization and Clearance Work

Prior to start of excavation work, ERRG marked the excavation areas in white paint and contacted Underground Service Alert and the Trust Utilities Department to clear excavation areas for underground utilities. Mobilization began the week of October 15, 2007 when a Conex box, 20,000-gallon storage tank, and fence materials were delivered to the site.

Building 1063 is a historical structure and corrective action implementation inside the building required review and compliance with the Trust's process for implementing both the requirements of the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA). The Trust's NEPA and NHPA review processes are combined into a single review commonly referred to as "N Squared." N Squared approved removal of 16 roof support columns to allow access to contaminated soil beneath the building floor slab.

2.4.3 Shoring and Demolition

During the week of October 15, 2007, ERRG saw-cut and removed asphalt from Excavation Areas 2 and 3, and saw cut and removed concrete around the roof support columns within the planned boundaries of Excavation 1.

Because of the proximity of Excavation 3 to the foundation of Building 1063, ERRG used a fixed shoring system to support the north and south walls of Excavation 3. The shoring consisted of four 20-foot sections of steel trench-box with 15-foot spreaders (see photographs, Appendix A). The size of the spreaders necessitated that the width of the excavation (north to south) be increased from the planned width of 10 to 12 feet to approximately 17 feet. Soil was initially excavated to approximately 4 feet below ground surface (bgs), after which the shoring sections were installed. ERRG pushed each shoring section downward as soil was excavated. Gravel was placed between the outside of the shoring sections and the excavation sidewalls to prevent potential collapse of the sidewalls and to preserve the structural integrity of the building foundation.

ERRG installed a shoring system to support the roof of Building 1063 at the location of Excavation 1. Shoring system construction comprised temporarily shoring the roof and replacing the lower portion of the roof support columns within the excavation boundaries with columns whose footings extended below the anticipated depth of excavation. Prior to column replacement, the fire-suppression sprinkler system was re-routed and the mezzanine in the northern part of the building was removed. The sprinkler system

was rerouted by Pribuss Systems on January 4 and 7, 2008, and a 50-foot section of mezzanine over the excavation area was removed on January 8 and 9, 2008.

Between January 9, 2008 and March 3, 2008, ERRG shored, removed, and replaced 16 roof support columns. After the excavation work was completed and Excavation 1 was backfilled, ERRG temporarily shored the roof, removed the temporary support columns, poured new roof support foundations at grade, and replaced the support columns with new, permanent support columns. This work occurred between April 7, 2008 and May 6, 2008.

The Work Plan indicated that a buttress system would be installed to support the north and south walls of the building along the lengths of Excavations 2 and 3. No buttress system was installed because 1) contamination did not extend beneath the north wall of the building, and 2) the Trust, Water Board, and stakeholders agreed that because of significant costs for installation of the buttress system, contaminated soil would not be excavated from beneath the south building wall. The rationale for the decision is further discussed in Section 2.4.5.4.

2.4.4 Excavation Dewatering and Wastewater Disposal

The boreholes for the roof support columns were dewatered prior to pouring concrete for the column footings by inserting a centrifugal pump into the borehole and pumping the water into a 20,000-gallon holding tank. In addition, Excavation 3 was dewatered during excavation and prior to backfilling. Dewatering was necessary in Excavation 3 because once the excavation intersected gravel backfill from the Phase I Interim Action (IA) excavation to the south (Figure 2-1), water flowed into Excavation 3 and stabilized at approximately 4 feet bgs. To dewater Excavation 3, a sump (approximately 4 to 6 feet wide and 2 to 3 feet deep) was dug on the western end of the excavation. Water was pumped out of the excavation using a combination of a centrifugal pump and/or gas powered sump pump. To filter out gravel and debris fragments, the water was initially pumped through a small screen (for the sump pump) or bucket with holes (for the centrifugal pump). Water was then pumped through a sock filter to remove smaller particulate material before pumping to the holding tank.

Water stored in the holding was sampled by MACTEC on October 31, 2007, and analyzed to show that it met limits prescribed in the Trust's Industrial User Class II Waste Water Permit. Water samples collected from the holding tank were analyzed by Curtis & Tompkins Ltd. for the following compounds:

- Arsenic, cadmium, chromium, copper, lead, nickel, silver, zinc, and mercury - EPA Test Method 200.7 and 245.1;
- Oil & Grease - EPA Test Method 1664S;
- Total Recoverable Petroleum Hydrocarbons (TRPH) - EPA Test Method 1664T;
- Phenols - EPA Test Method 420.1;
- pH - EPA Test Method 150.01; and
- Cyanide & Dissolved Sulfides - Standard Method (SM) 4500Cn-E and SM 4500S2-D.

It is noted that some test methods are not as specified in the QAPP (*TetraTech, 2001*), but follow the EPA 40CFR Methods Update Rule.

Based on the sample results (Table 2-3), on November 6, 2007, the Trust authorized ERRG to discharge the water to an onsite sanitary sewer. The water passed through an in-line totalizer and was gravity discharged to the sanitary sewer. Photographs of the sump area in Excavation 3 and the sanitary sewer discharge point are included in Appendix A. Based on totalizer readings, 90,044 gallons were discharged into the sanitary sewer between November 6, 2007 and March 21, 2008, when the holding tank was removed from the site. Laboratory analytical reports for the sample are included in Appendix D.

2.4.5 Excavation and Confirmation Soil Sampling

Soil was excavated from four areas of the Site during the time periods described below:

- **Excavation 3** - Soil was excavated between October 27, 2007 and November 8, 2007 with over-excavation of the west sidewall on November 14, 2007.
- **Excavation 2** - Soil was excavated on November 12, 2007, with over-excavation of the north, west, and east sidewalls on November 21, 2007.
- **Excavation 1** - Soil was excavated between March 3 and 20, 2008 with over-excavation work performed on March 26, 2008.
- **Abandoned Sewer Line** - The 12-inch inner diameter (ID) pipe that exited the western end of Excavation 3 was removed on October 31, 2007, and May 9 and 13, 2008.

Confirmation soil samples and associated Quality Control (QC) samples were collected in accordance with the Work Plan and QAPP. The samples were analyzed by Curtis and Tompkins, Ltd in accordance with the analytical program specified in the Work Plan. Table 2-4 presents a summary of analyses requested for the samples collected during the CAP implementation program. The following describes, in chronological order, activities associated with removal of soil from the three excavations and the former sewer line trench.

2.4.5.1 Excavation 3 (October 27, 2007 through November 14, 2007)

On October 29, 2007, ERRG began excavating soil from Excavation 3. An approximate 84- by 17-foot area was initially excavated to approximately 4 feet bgs prior to installation of shoring. During excavation of the upper 4 feet of soil, storm drains along the southern wall of Building 1063 were removed. In addition, an approximate 12-inch diameter, 18.5-foot long steel conductor casing from an abandoned well was encountered and removed from the approximate center of the excavation. On October 31, 2007, the hole created by the conductor casing was backfilled with a cement slurry (using a tremmie-pipe) from approximately 18 to 4 feet bgs (the approximate depth of the excavation bottom).

In addition to the conductor casing, a 4-foot deep vault (likely a sump) was encountered on the western end of Excavation 3. The upper 1 foot of the vault was constructed of concrete, the bottom 3 feet constructed of brick, and the vault was covered by a metal plate. The sump had three pipes entering it from the west and one pipe exiting on the east (Figure 2-2; West Sidewall, Excavation 3).

The three pipes located on the west side of the vault are described below:

1. An 8-inch diameter clay pipe that was encountered at approximately 2 feet bgs. The 8-inch clay pipe was 3 feet long, contained black sediment, and was open to the excavation at its west end. This pipe was removed on October 31, 2007.

2. A 4-inch diameter metal pipe that entered the sump at 2 feet bgs. This pipe was 6 feet long, rusty, had many holes, contained black sediment, and was open at the west end. This pipe was removed on October 31, 2007.

3. A 12-inch diameter clay pipe that entered the sump between 4 and 5 feet bgs. This pipe was filled with a black sediment and extended west beneath a parking area. Based on visual/olfactory evidence, it did not appear that the pipe had released contaminants into the surrounding soil. On October 31, 2007, approximately 35 feet of the 12-inch diameter clay pipe was removed from an

approximate 5-foot deep excavation. Excavation of the clay pipe was stopped because equipment and stockpiles were staged at the western extension of the 12-inch pipe. As discussed in Section 2.4.5.5, following removal of the soil stockpiles, ERRG removed an additional 68 feet of the 12-inch clay pipe.

On December 19, 2007, a sediment sample was collected from material contained in the 12-inch diameter clay pipe (1065SD100, Tables 2-5 through 2-8) and the pipe was capped off with concrete. Analytical results showed that sediment in the pipe contained contaminants above Site cleanup levels.

The fourth pipe which entered the vault from the east was an 8-inch diameter clay pipe and traversed the excavation to the southeast ending at a former excavation boundary. This pipe was removed on October 31, 2007.

After placement of shoring (discussed in Section 2.4.3), ERRG excavated soil to depths ranging from 6 to 8 feet bgs from Excavation 3. Excavation work was monitored by MACTEC on October 29 to 31, November 1, November 5 through 8, and November 14, 2007 and soil was excavated based on visual observations and PID readings. Between October 30 and November 14, 2007, MACTEC collected confirmation soil samples 1065EX350 through 1065EX361 from sidewalls at the approximate depth of groundwater (4 to 4.5 feet bgs) and confirmation samples 1065EX362 through 1065EX365 from the bottom of the excavation (Figure 2-2). Samples were analyzed for Site COCs as detailed in Table 2-4. Laboratory analytical reports are included in Appendix D. Figures 2-2 and 2-3 show logs of the excavation sidewalls.

Review of analytical results showed that four sidewall confirmation soil samples 1065EX350, -352, -355, and -360 contained TPH diesel, fuel oil, gasoline, and/or lead at concentrations exceeding Site cleanup levels as summarized below:

- 1065EX350 - TPH diesel at 130 milligrams per kilogram (mg/kg), TPH gasoline at 1,900 and 2,200 (duplicate sample), and lead at 510 mg/kg.
- 1065EX352 - TPH diesel at 360 mg/kg, TPH fuel oil at 570 mg/kg, and TPH gasoline at 1,100 mg/kg.
- 1065EX355 - TPH gasoline at 1,100 mg/kg.

- 1065EX360 - TPH fuel oil at 360 mg/kg (duplicate sample).

Sample locations are shown on Figure 2-2 and analytical results summarized on Tables 2-9 through 2-12. Analytical results were discussed with stakeholders in a meeting on November 20, 2007. Because three of the samples (samples 1065EX350, -352, and-355) were located adjacent to the south wall of Building 1063, it was planned that soil in that area would be dug out as part of Excavation 1, when shoring was planned to be installed beneath the southern wall of Building 1063.

As discussed in Section 2.5.4.5.4, in March and April 2008, the Trust re-evaluated alternatives for addressing soil contamination beneath the southern wall of Building 1063 and with the concurrence of the Water Board and stakeholders, decided not to install the shoring or remove contaminated soil from that location.

On November 14, 2007, the west sidewall of Excavation 3 was over-excavated at the location of 1065EX360 where the duplicate sample (DUP110107) contained TPH as fuel oil at 400 mg/kg, exceeding the Site cleanup level of 160 mg/kg. Following over-excavation, a second soil confirmation sample (1065EX367) was collected from the west sidewall and analyzed for Site COCs (Table 2-4). Analytical results showed that TPH fuel oil was detected at 5.6 mg/kg, indicating that soil containing TPH above Site cleanup levels had been removed from the western portion of Excavation 3. Based on results of Sample 1065EX367 and the plan to excavate impacted soil adjacent to and beneath the south wall of Building 1063 during work at Excavation 1, excavation activities at Excavation 3 were terminated.

Based on the final dimensions of the excavation, an estimated 415 yards of soil was removed from Excavation 3.

2.4.5.2 Excavation 2 (November 12, 2007 through November 21, 2007)

ERRG began Excavation 2 on November 12, 2007 by excavating a 9- by 11-foot area to approximately 7 feet bgs. The southern sidewall was sloped to protect the north wall of Building 1063; as a result, the dimensions of the bottom of the excavation were 9- by 8-feet. Two metal pipes (one 0.75- and one 1-inch diameter) were encountered during excavation. These pipes had at least one end open to the soil indicating that they were no longer in use. Groundwater was not encountered during excavation. A log of the west sidewall of Excavation 2 is shown on Figure 2-2.

Following excavation on November 12, 2007, MACTEC collected confirmation soil samples 1065EX342 through 1065EX345 from the excavation sidewalls at approximately 5 feet bgs (the top of the smear zone;

based on soil stratigraphy in the excavation and historic groundwater levels in 1065PZ1A) and one bottom sample (1065EX341) from the approximate center of the excavation (Figure 2-2). Samples were analyzed for Site COCs (Table 2-4). Analytical laboratory reports are included in Appendix D.

Review of sample results showed that sidewall sample (1065EX342) contained TPH as fuel oil at 360 mg/kg, above the Site cleanup level of 160 mg/kg, and sidewall samples 1065EX342, 1065EX344, and 1065EX345 contained benzo(a)pyrene at concentrations ranging from 0.043 to 0.074, exceeding the Site cleanup level of 0.04 mg/kg (for petroleum-related contamination) (Tables 2-9 through 2-12).

Preliminary confirmation sample results were presented to the Water Board and stakeholders in a meeting on November 20, 2007. During the meeting, it was discussed that Excavation 2 was located near the investigation area for Fill Site 6B and that sampling to date at Fill Site 6B showed similar COCs and concentrations to those detected in the samples from Excavation 2. In the meeting, it was agreed that the north, west, and east sidewalls of Excavation 2 would be over-excavated and confirmation samples would be analyzed for a limited suite of COCs to include TPH fuel oil, TPH diesel, and PAHs. It was also agreed if this one round of over-excavation did not remove soil containing PAHs above Site cleanup levels, then the Trust would consider addressing residual contaminants in the area as part of Fill Site 6B.

On November 21, 2007, Excavation 3 was expanded 2.5 feet to the west and 1.5 feet to the north and east such that the excavation limits were 13 by 12.5 feet (Figure 2-2). Following over-excavation, confirmation soil samples 1065EX346, 1065EX347, and 1065EX348 were collected at approximately 5 feet bgs from the east, north, and west sidewalls. Samples were analyzed for TPH fuel oil, TPH diesel, and PAHs (Table 2-4). Analytical results for these three samples showed that the soil sample from the western sidewall (1065EX348) contained benzo(a)pyrene at 0.18 mg/kg, exceeding the Site cleanup level of 0.04 mg/kg (Table 2-10). No other sample results showed detected concentrations above cleanup levels. Based on the location of the sample (on the Fill Site 6B investigation boundary) and the absence of TPH at concentrations exceeding Site cleanup levels, as agreed with the Water Board and stakeholders in the November 20, 2007 meeting, no further excavation was performed. As discussed in Section 6.0, the Trust proposes to implement a LUC for this area. Based on the final excavation limits, approximately 37 yards were removed from Excavation 2.

2.4.5.3 Excavation 1 (March 3 through 26, 2008)

ERRG began excavation inside of Building 1063 (Excavation 1) on March 3, 2008. Excavation work proceeded by excavating 4- to 8- foot wide areas within planned excavation limits (e.g., within the saw-cut area where columns had been cut and replaced) beginning in the northern portion of the building and working south. Groundwater was encountered between 7 and 7.5 feet bgs.

Petroleum odor was noted and visibly impacted soil was observed between 4 and 6 ft bgs when ERRG was excavating footings for the northernmost column supports inside Building 1063. To assess the potential maximum depth of contamination at the northern limits of Area 1 and the depth at which the column supports should be installed so that there would be no limitations as to removal of contaminated soil at depth, soil samples 1065EX301 and 1065EX302 were collected at 8.5 feet bgs from the boreholes for the center two replacement columns. Samples were analyzed for a limited suite of COCs including TPH diesel, TPH gasoline, TPH fuel oil, BTEX, arsenic, and lead.

Laboratory analysis of the two soil samples indicated that concentrations of TPH diesel, TPH fuel oil, TPH gasoline, BTEX, arsenic, and lead were below Site cleanup levels (Tables 2-9, 2-11, and 2-12) and therefore, it appeared that contamination in northern portion of Excavation 1 did not extend to Bay Mud (encountered in the northern column rows at approximately 9 feet bgs). Based on analytical results, it appeared that excavation to Bay Mud would not be required in the northern portion of the excavation. It also appeared that the depth of the column supports (10 feet bgs) was adequate for the planned excavation.

During excavation of one of the footings in the northernmost row of roof support columns, an approximate 4-inch diameter clay pipe was encountered at approximately 7 ft bgs. Petroleum odor (aged gasoline) was noted in the soil by ERRG; however, it was not determined whether it was related to the piping (which was excavated). The pipe was believed to be an abandoned storm sewer line because it conveyed water into the excavation during rainfall events. The pipe was replaced with a Schedule 40 PVC pipe prior to backfill.

Excavation work was monitored by MACTEC on January 22, and March 5 through 7, 10 through 14, 17 through 19, and 26, 2008, and soil was excavated to depths of 6 to 8.5 feet bgs based on visual observations and PID readings. Soil was excavated to the planned north, west, and south excavation limits. The eastern sidewall was approximately 6 feet west of the planned excavation limits because there were no elevated PID readings or visual/olfactory evidence of contamination in soil in the eastern

sidewall. The north, east, and west sidewalls were sloped and the southern sidewall was excavated with a shear wall approximately 3 feet north of the southern building wall. This area was excavated by digging 8-foot long and approximately 3- to 4-foot wide trench sections and backfilling the trenches with compacted aggregate base (AB) before moving on to the next section. The southern sidewall was then excavated (as a sloped section) into the placed AB which provided support for the sidewall.

On March 6 and 19, 2008, MACTEC collected initial confirmation soil samples 1065EX305 through 1065EX310, 1065EX313, and 1065EX314 from northern, western, and eastern sidewalls; at depths of 6 to 7 feet bgs which corresponded to the smear zone (groundwater was encountered in the excavation between 7 and 7.5 feet bgs). No confirmation soil samples were collected from the southern sidewall because Excavation 3 sidewall samples 1065EX350, 1065EX352, and 1065EX355 were considered to be representative of COC concentrations in the southern sidewall of Excavation 1. Confirmation soil samples 1065EX303, 1065EX304, 1065EX311, and 1065EX312 were collected from the excavation bottom on March 6 and 19, 2008. Confirmation soil sample 1065EX304 was collected at the location of the former 4-inch diameter clay pipe. Sample locations are shown on Figure 2-2 and Tables 2-9 through 2-12 summarize sample analytical results. Laboratory analytical reports are included in Appendix D.

The two samples collected from the east sidewall (1065EX313 and 1065EX314) contained TPH gasoline and TPH diesel at concentrations exceeding Site cleanup levels as summarized below:

- 1065EX313 - TPH gasoline at 2,200 mg/kg and TPH diesel at 200 mg/kg.
- 1065EX314 - TPH diesel at 180 mg/kg.

Analytical results are summarized on Tables 2-9 through 2-12. Confirmation sampling data were discussed during a stakeholder meeting and it was agreed that the eastern sidewall would be over-excavated at the location of 1065EX314. Because sample 1065EX313 was collected adjacent to a shear wall near the southern building wall, soil could not be further excavated without damage to the building structure. Following over-excavation on March 26, 2008, a sidewall sample (1065EX315) was collected along the enlarged sidewall and analyzed for Site COCs (Table 2-4). Analytical results showed chemical concentrations below Site cleanup levels: accordingly, over-excavation successfully removed impacted soil from the sidewall. As discussed in Section 2.4.5.4 below, the Trust evaluated alternatives for addressing contaminated soil beneath the south wall of Building 1063 including soil at the location of soil sample 1065EX313. As discussed in Section 2.4.5.4, the Water Board and stakeholders agreed that soil

beneath the south building wall (Figure 2-2) will remain in place and the Trust will implement a LUC for this area of the site. The LUC for this area is discussed in Section 6.0 and Appendix M.

Soil encountered during excavation was consistent with that encountered in Excavation 3; a log of the excavation sidewall is provided on Figure 2-21. Excavation work was completed on March 30, 2008 and based on the final dimensions of the excavation, approximately 700 yards of soil were removed from Excavation 1.

2.4.5.4 Evaluation of Alternatives to Remediate Contamination Beneath Southern Wall of Building 1063

Based on analytical results for samples 1065EX313, 1065EX350, 1065EX352, and 1065EX355, soil at and beneath the south wall of Building 1063 contains TPH at concentrations exceeding cleanup levels protective of groundwater quality and lead at concentrations above human health criteria. Petroleum contaminants in soil could also pose human health risks from vapor intrusion into indoor air. Contamination beneath the building wall could not be removed without installation of shoring after Excavation 1 was backfilled.

During stakeholder meetings on March 25 and April 8, 2008, alternatives for addressing contamination beneath the south wall of building 1063 were discussed. Potential alternatives discussed included:

- No Action - Leave contaminated soil in place and implement a LUC. This alternative would require an indoor air assessment, and may also require that engineering measures be implemented during building construction to reduce the potential for petroleum vapors.
- Excavation - Install shoring, excavate the majority of contamination beneath the building wall, and treat contaminated soil left in place at the southeast corner of Excavation 1 with oxygen releasing compound (ORC) or RegenOx™ insitu.
- ORC Advanced™ Injection - Treat TPH left in place beneath the building wall by injection of ORC Advanced™ using direct push injection angle borings.
- ORC Advanced™ Trench Application - Treat TPH left in place using ORC Advanced™ placed in a trench along the south side of the wall.
- RegenOx™ Injection - Treat TPH left in place through injection of RegenOx™ using direct push injection angle borings.

- RegenOx™ Trench Application - Treat contaminants left in place using RegenOx™ placed in a trench along the south side of the building wall.

The table presenting the comparison of alternatives discussed in the April 8, 2008 stakeholder meeting is presented in Appendix E. Based on evaluation of alternatives and relative costs and because groundwater samples collected from downgradient wells do not show petroleum constituents above Site cleanup levels, it was agreed during the meeting that contamination beneath the building wall would be left in place. Prior to occupation of Building 1063, the Trust will conduct a soil vapor assessment to evaluate potential human health risks from vapor intrusion to indoor air from residual contaminants in soil. If results of the soil vapor assessment show risks to future building occupants, the Water Board and stakeholders will be consulted concerning alternatives for mitigation and/or remediation of the contaminated soil left in place. In addition, it was agreed that the Trust would continue groundwater monitoring as outlined in the CAP and Work Plan. As discussed in Section 6.0, the Trust will implement a LUC for this area that is described in an addendum to the LUCMRR (Appendix M).

2.4.5.5 Removal of Former Sewer Line (May 9 and 13, 2008)

After Excavations 1 through 3 were completed and the soil stockpiles had been removed from the Site, ERRG excavated and removed the 12-inch ID clay pipe that had been capped off on the western end of Excavation 3. Between May 9 and 13, 2008, approximately 68 feet of pipe was removed from an approximately 2-foot wide and 8-foot deep trench. Excavation was terminated when an inactive brick utility vault with an iron cover was encountered at approximately 1 foot bgs. There were two clay pipes (18-inch and 10-inch ID) that entered the utility vault from the west and southeast at 7.0 and 6.5 feet bgs, respectively. Black sediment observed in the pipe leading west from Excavation 3 was not evident in the other pipes. ERRG excavated and removed the vault and an additional 6 to 10 feet of pipe on opposite sides of the vault; no black sediment was observed in the pipes. The ends of each pipe were sealed with concrete plugs.

On May 9, 2008, MACTEC collected confirmation soil samples 1065EX368 through 1065EX370 from the bottom of the trench at the former pipe location and collected 1065EX371 on May 13, 2008, where the 12-inch ID clay pipe entered the abandoned storm drain manhole (Figure 2-2). Analytical results showed that COCs were not detected above cleanup levels (Tables 2-9 through 2-12).

Laboratory analytical reports are included in Appendix D. Based on the final trench dimensions, approximately 63 yards of soil was removed from the pipe excavation.

2.4.6 Excavation Backfilling

In October 2007, MACTEC obtained samples from backfill source material identified by ERRG. The first set of samples consisted of ¾-inch drain rock (Sample 1065BC400) and Class II aggregate base (AB; Sample 1065BC401) from Dutra Quarry in San Rafael, California. Samples were analyzed by Curtis and Tompkins, Ltd. for Site COCs. Analytical results showed that TPH diesel, fuel oil, gasoline, PAH, VOC, and metals were not detected or were detected at concentrations below cleanup levels. The second sample comprised Class II AB obtained from A.R. Wilson Quarry in Aromas, California on January 11, 2008. This sample was analyzed for TPH gasoline, TPH fuel oil, TPH diesel, BTEX, Title 22 metals, pesticides, and herbicides. Analytical results showed that metals TPH diesel, TPH fuel oil and xylenes were below cleanup levels and benzene, toluene, ethylbenzene, TPH gasoline, pesticides, and herbicides were not detected. Sample results are presented on Tables 2-13 through 2-17.

Confirmation soil sample results for Excavations 2 and 3 were presented to the Trust, NPS, DTSC, and Water Board and approval was given to ERRG to backfill the two excavations on December 7, 2007. Backfill began on December 19, 2007, when ERRG laid filter fabric on the northern sidewall of Excavation 3 to demark the boundary between backfill material and non-excavated soil under the foundation of Building 1063. Filter fabric was also placed in the bottom of Excavation 2 (*T. Appel, 2009; Personal communication*). In a December 7, 2007 stakeholder meeting, DTSC suggested that filter fabric be placed against the west wall of Excavation 2 to demark the limits between soil containing PAHs above cleanup levels and backfill material. The excavation survey and Site LUCs will be used to identify the location of clean backfill relative to soil containing PAHs on the west wall of Excavation 2. Following placement of the filter fabric, ¾-inch drain rock was placed in Excavation 3 to approximately 5 feet bgs and bgs in Excavation 2 to approximately 3 to 3.5 feet bgs. The upper portion of the excavations were backfilled with Class II AB in 6-inch lifts and compacted by ERRG. ERRG tested the backfill to confirm that compaction specifications had been achieved (90% laboratory maximum density for cohesive materials, 95% laboratory maximum density for cohesionless materials, and 95% maximum density for subgrade fill). The test results are included in Appendix F. Shoring in Excavation 3 was pulled up as each lift of backfill was placed and was removed when the excavation was backfilled to approximately 4 feet bgs. Both excavations were backfilled to the ground surface. After backfilling Excavation 2, the area was paved with asphaltic concrete in accordance with the Technical Specifications (*MACTEC, 2007b*).

Confirmation soil sample results for Excavation 1 were presented to the Trust, NPS, DTSC, and Water Board and approval was given to backfill on March 25, 2008. Backfill operations for Excavation 1 began

on March 27, 2008 by placing ¾-inch drain rock in the excavation to approximately 4.5 feet bgs. The upper portion of the excavation was backfilled with AB in 6-inch lifts and compacted to grade. ERRG conducted compaction tests to confirm that compaction specifications had been achieved. The test results are included in Appendix F.

Confirmation soil sample results for the former sewer line pipe trench were presented to the Trust, NPS, DTSC, and Water Board and approval was given to backfill on May 20, 2008. Backfill operations for the trench took place on June 9 and 10, 2008 by placing AB in 6-inch lifts, and compacting to grade. Because the sewer line trench was outside of RU-A and within the Doyle Drive reconstruction area, the Trust determined that compaction specifications for RU-A would not be required for the sewer line excavation. The Trust directed ERRG to compact backfill below 1 foot bgs in the sewer line excavation to 90% of the laboratory maximum density and to compact backfill from 0 to 1 foot bgs to 95% laboratory maximum density. ERRG conducted compaction tests to confirm that the Trust's compaction requirements had been achieved. Six of the seven tests conducted on June 9, 2008 on backfill below 1 foot bgs met or exceeded 90% compaction. One of the seven tests on June 9, 2008 was below 90% compaction - Test 6 at 1.5 feet bgs which was 89%. Backfill at the location of Test 6 was re-tested and showed 98% compaction. On June 10, 2008, Tests 1 and 4 conducted on backfill at 1.0 and 0.5 foot bgs, indicated that backfill compaction did not meet Trust requirements. Test 1 at 1.0 foot bgs was below 95% and the backfill at that location was re-compacted and retested twice until it met specifications. Backfill at the location of Test 4 at 0.5 foot bgs was retested and shown to meet Trust requirements. The test results are included in Appendix F.

2.4.7 Soil Profiling and Disposal

ERRG collected three composite samples (1065SC300, 1065SC301, and 1065SC302) from the stockpiled soil removed from Excavations 1, 2 and 3, and one composite sample (1065SC303) from the stockpiled soil removed from the sewer line excavation. Laboratory analytical reports are included in Appendix G. Based on Soluble Threshold Limit Concentration (STLC) tests for lead, the stockpiled soil from Excavations 1, 2, and 3 was disposed as Class I non- Resource Conservation and Recovery Act (RCRA) hazardous waste. On April 30, 2008 and May 1 and 2, 2008 Denbeste Transportation, Inc. of Windsor, California, transported and disposed approximately 1,840 tons (78 truckloads) of soil (stockpiles from Excavations 1, 2, and 3) at Chemical Waste Management Landfill in Kettleman Hills, California. On June 16 and 27, 2008 DenBeste Transportation, Inc. trucking of Windsor, California transported and disposed of approximately 159 tons (8 truckloads) of soil from the excavation of the storm drain at the

Altamont Landfill & Resource Recovery Facility in Livermore, California. Disposal receipts, profiles, and waste manifests are included in Appendix H. Between October 24, 2007 and July 15, 2008, ten loads of concrete and asphalt were transported for recycling at the Brisbane Recycling Co., Inc. facility in Brisbane, California.

2.5 Laboratory Analysis and Data Validation

Laboratory analyses were performed in accordance with the QAPP by Curtis & Tompkins, Ltd. Preliminary analytical results were provided as electronic disc deliverables (EDDs) and Level II reports that were submitted electronically to MACTEC within 2 to 5 working days of submittal of the samples. These preliminary data were loaded into a preliminary data site in MACTEC's SQL database and summary tables were prepared that presented excavation confirmation sampling results. These summary tables were used by the project team for field decisions, and shared with the Water Board and stakeholders during meetings.

Final data were provided to MACTEC on a Trust-formatted EDD, which was loaded into MACTEC's SQL database. Comprehensive certificates of analysis (CCAs) and raw data packages were also provided within 20 to 30 days of sample collection in hard copy and electronic copy format. Analytical reports are provided in Appendix D. Level II and Level III validation qualifiers were loaded into the database, as were northing and easting coordinates for the samples. Tables presented in this report contain Level II and III validation qualifiers.

After completion of field work, qualifiers and coordinates extracted from MACTEC's database were amended to the Presidio EDD for submittal to Trust for loading into the Presidio database.

Data were validated in accordance with the QAPP and USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004. Preliminary data underwent Level II validation; Level II data validation reports were prepared and submitted to the Trust during the course of field work. Level III and Level IV data review was performed using data provided on the CCAs and raw data packages. Level II, Level III, and Level IV data validation reports are provided in Appendix I.

3.0 INSTALLATION AND DEVELOPMENT OF MONITORING WELLS AND GROUNDWATER MONITORING

3.1 Installation and Development of Monitoring Wells

On May 30, 2007, Gregg Drilling and Testing (Gregg) abandoned piezometers 1065PZ1A and 1065PZ1B, and wells 1065MW9A and 1065MW9B, and installed new well 1065MW103A under the supervision of a field geologist from Treadwell & Rollo, Inc. (T&R). The borehole for well 1065MW103A was continuously sampled by Gregg, and lithologically logged by T&R.

On June 1, 2007, Blaine Tech developed 1065MW103A in accordance with the Presidio Trust's Standard Operating Procedure for Well Development. On June 12, 2007, the location and elevation of the top of the casing was surveyed by Chaudhary, Inc; survey data are provided in Appendix J1. Well abandonment records, the well boring log, well construction diagram, and monitoring well development data sheets are included as attachments to Treadwell & Rollo, Inc's report *Monitoring Well Destruction, Installation, and Development, Building 1065 Area, Presidio of San Francisco, San Francisco, California* (*T&R, 2007a*), which is included in Appendix J1, Attachment C.

3.2 Groundwater Monitoring

3.2.1 Pre-Excavation Groundwater Monitoring

Groundwater samples were collected by T&R in March 2007 (First Quarter 2007) from piezometers 1065PZ1A and 1065PZ1B and wells 1065MW101 and 1065MW102 as part of the Basewide Groundwater Monitoring Program, and in June 2007 (Second Quarter 2007) and August 2007 (Third Quarter 2007; *T&R, 2007b*) from monitoring well 1065MW103A as part of the groundwater sampling program prescribed in the CAP and Work Plan (*MACTEC, 2007a* and *c*). Except for 1065PZ1B, the wells and piezometers downgradient of RU-A are screened in the first water-bearing zone. Piezometer 1065PZ1B was installed in the intermediate groundwater zone. First, Second, and Third Quarter 2007 groundwater sampling results are considered to be representative of baseline groundwater groundwater conditions prior to excavation of soil from RU-A. Tables summarizing groundwater monitoring results are included in Appendix J2.

Prior to start of construction, MACTEC reviewed the First and Second Quarter 2007 monitoring data to assess whether there were any significant differences in chemical concentrations or field measurements

between First and Second Quarter 2007 data and historical groundwater monitoring data. Results of the evaluation were presented in a memorandum dated September 25, 2007 and were discussed in stakeholder meeting on October 31, 2007. Based on comments from the meeting, the memorandum was revised and is included in Appendix J3. Conclusions of the memorandum are summarized below.

First and Second Quarter 2007 groundwater monitoring data from wells and piezometers downgradient of RU-A showed relatively lower concentrations of chemical concentrations than had been detected in the previous three quarters of groundwater monitoring. Analytical results for the newly installed well 1065MW103 showed that groundwater COCs; TPHg, benzene, and arsenic; were not detected in 1065MW103. In addition, review of First and Second Quarter 2007 monitoring data did not suggest the need to re-evaluate the recommended rates for application of oxygen releasing compound estimated in the Work Plan.

As previously discussed, 1065MW103A was sampled on August 21, 2007 (Third Quarter 2007). Review of data from this sampling event indicates that the groundwater COCs TPHg and benzene were not detected in the groundwater sample collected from 1065MW103A and arsenic was detected at 6.9 µg/L, below the Site cleanup level of 10 µg/L.

3.2.2 Initial Round of Post Excavation Groundwater Monitoring

Groundwater samples were collected by Treadwell and Rollo in June 2008 (Second Quarter 2008) from wells 1065MW101, 1065MW102, and 1065MW103 as part of the Basewide Groundwater Monitoring Program. TPHg and benzene were not detected above the laboratory reporting limits in the groundwater samples collected from these wells. Arsenic was reported at 32 µg/L in 1065MW101A, 11 µg/L in 1065MW102A, and 5.8 µg/L in 1065MW103A. These concentrations are consistent with those reported for the groundwater samples collected prior to the excavation program. Tables showing the results of the most recent groundwater monitoring are included in Appendix J2.

3.2.3 CAP Groundwater Monitoring Program

As indicated in Table 9 of the CAP, monitoring wells and piezometers will be sampled quarterly for one year following excavation (three additional quarters) for TPHg and BTEX, arsenic and redox parameters; semi-annually thereafter for TPHg and BTEX; and annually thereafter for arsenic and redox parameters to (a) verify dissolved TPHg and BTEX in groundwater are below Site cleanup levels, and (b) assess whether concentrations of these chemicals in wells and piezometers at RU-A show trends over time. Results will be presented in the Presidio-Wide Semi-Annual Groundwater Monitoring Reports. After

TPHg, BTEX, and arsenic are demonstrated to be below cleanup levels for four consecutive sampling rounds, monitoring will be discontinued (subject to Water Board approval), and clean closure with regards to groundwater contamination will be documented in a site closure request. The site closure request will include a request for abandonment of onsite wells and piezometers.

4.0 OUTDOOR CAP INSPECTION

The objectives of the outdoor cap inspection were to examine and document the existing surface outside the footprint of the Building 1040 (LUC Zone 3) as well as document conditions in two other areas of the site where concentrations of COCs above cleanup levels remain in soil (LUC Zones 1 and 2). MACTEC conducted this inspection on June 3, 2008 and the inspection form, photographs, and notes from the inspection are included in Appendix K.

In June 2008, the surface of the cap over LUC Zone 3 comprised bare soil on the west side of Building 1040 and concrete and asphalt pavement on the north side of Building 1040. The cap over the LUC area east of Excavation 2 (LUC Zone 1) consisted of new and old asphalt and the cap of the LUC area between Excavations 1 and 3 (LUC Zone 2) consisted of compacted AB, the building foundation, and a concrete slab at the eastern and western sides of Excavation 3 within Building 1063.

No improvements to these caps are recommended at this time; however, the LUC Zones at the Site should be inspected annually and inspections documented and information managed under the Trust's LUC program.

5.0 INDOOR AIR ASSESSMENT AND CAP INSPECTION

EKI performed an indoor air and cap assessment at Building 1040 in accordance with EKI's *Building 1040 Indoor Air and Cap Assessment Work Plan for the Building 1065 Area* (*EKI, 2008a*). The indoor air assessment was conducted to assess potential vapor intrusion to indoor air, the integrity of the foundation which is serving as a cap to limit the potential exposure to residual petroleum hydrocarbons beneath the building, and review the need for potential improvements to the cap.

5.1 Soil Gas Sampling and Analysis

On April 18, 2008, EKI collected six soil vapor samples (1040SG101 through 1040SG106) from locations around Building 1040. Sample locations are shown on Figure 2 of EKI's *Vapor Intrusion Assessment and Field Sampling Report* (*EKI, 2008b*) which is included in Appendix L.

Table 1 of EKI's *Vapor Intrusion Assessment and Field Sampling Report* (*EKI, 2008b*; Appendix L) presents analytical results for the soil gas samples collected on April 18, 2008. VOCs and PAHs were not detected at concentrations exceeding Water Board's commercial/industrial or residential Environmental Screening Levels (ESLs) (*Water Board, 2005*). There are no published soil gas ESLs for four of the detected analytes (which were detected at concentrations just above their respective reporting limits): 4-ethyltoluene; Freon 11; 1,3,5-trimethylbenzene; and 1,2,4-trimethylbenzene.

EKI concluded that results below residential ESLs indicated that risks associated with petroleum hydrocarbons and related constituents in soil gas are within acceptable ranges (i.e., less than one-in-a-million) to future Building 1040 occupants, and that no further action with regard to vapor intrusion mitigation was recommended in response to the results of the sampling.

5.2 Indoor Cap Assessment

On June 3, 2008, EKI conducted an indoor cap assessment at Building 1040 which included inspecting the interior of the building for visible cracks, penetrations, and gaps that could potentially allow for direct contact with COCs in soil under the building. Observations were documented in EKI's *Vapor Intrusion Assessment and Field Sampling Report* (*EKI, 2008b*; Appendix L). As a result of the inspection, EKI concluded that the floor and basement wall in the vicinity of residual petroleum hydrocarbons in soil provide an adequate barrier to prevent direct contact with the underlying soil.

6.0 LAND USE CONTROLS

The DTSC requires sites that do not fully meet the most stringent Presidio-specific human health cleanup levels (i.e., residential cleanup levels) and/or site-specific ecological cleanup levels to have land use restrictions to inform and protect future users concerning the presence of residual contaminants. MACTEC has prepared a Site-Specific Addendum to the Presidio Trust LUCMRR (*Trust, 2006*) because soil in specific areas of the Site contains contaminants at concentrations exceeding site-specific cleanup levels. This addendum to the LUCMRR is presented in Appendix M.

Three areas at the Site have been identified that require implementation of a LUC. These have been identified as LUC Zones 1 through 3 as described below:

- LUC Zone 1 is located north of Building 1063 and overlaps into Fill Site 6B;
- LUC Zone 2 is located beneath the southwest wall of Building 1063; and
- LUC Zone 3 is located beneath and just west of the northwest corner of Building 1040.

The three LUC Zones are shown on Figure 6-1 and details regarding the Site LUCs are presented in the Site-Specific Addendum to the LUCMRR (Appendix M).

7.0 SUMMARY

The corrective action at the Site was performed in general accordance with the CAP (*MACTEC, 2007a*), Technical Specifications, (*MACTEC, 2007b*), the Work Plan (*MACTEC, 2007c*), the Petroleum Contingency Plan (*EKI, 2004*), and the QAPP (*TetraTech, 2001*). Deviations from these planning documents were discussed in progress meetings with the Water Board and stakeholders and are documented in this Completion Report.

The corrective action met the RAOs identified in the CAP as described below:

- *Protection of Human Health and the Environment* - Where practicable, soil containing COCs at concentrations exceeding the most stringent applicable cleanup levels was excavated. At locations where the Trust assessed that soil was not practicable to remove, LUCs were implemented to inform and protect future users concerning the presence of residual contamination.

- *Cost-Effective Cleanup of the Site Consistent with its Potential Land Use and Preference for Permanent ("Clean Closure") Remedies whenever Practicable, Cost-Effective, and Consistent with Current or Anticipated Land Use* - Clean-closure by excavation and ORC application, as required, was selected for RU-A in the CAP based on the Trust's understanding of site conditions and their preference for clean closure remedies. However, during implementation of the remedy, based on the Remediation Contractor's estimated costs for shoring the foundation and removal of contamination beneath the foundation of Building 1063, the Trust re-evaluated alternatives and selected a LUC for residual contamination beneath the building wall, resulting in implementation of a more cost effective remedy for RU-A than "clean closure". The LUC and associated restrictions will be consistent with planned commercial use of the building.

- *Recycling Excavated Materials to the Extent Practicable* - Ten truckloads of concrete and asphalt removed during excavation work were recycled at Brisbane Recycling Co., Inc.

- *Compliance with State and Federal Environmental Laws* - The CAP was developed to meet requirements of the Water Board Order (*Water Board, 2003*) and fulfilled the California requirements of Title 23, California Code of Regulations (CCR), Division 3, Chapter 16, Article 11; and California Health and Safety Code, Chapter 6.8. The corrective action program

was reviewed and approved to by the Trusts N Squared committee to assure that NEPA and NHPA issues were considered and addressed. Soil was handled and disposed by ERRG in accordance with regulations requiring profiling and manifesting of waste generated during the program. Water removed from the excavations sampled and met requirements in the Trust's San Francisco Public Utilities Commission, Permit No. 05-0246 Industrial User Class II Wastewater Permit, dated February 7, 2005.

- *Consistency of the Selected Corrective Action Alternatives at the Site with the Overall Transformation of the Presidio into a National Park Site* - Where practicable, contaminated soil was removed by excavation. In cases where contamination was present beneath building foundations, to preserve the buildings and other structures of historical significance, LUCs were implemented to inform and protect future site users of the presence of residual contamination. Significant efforts were taken during excavation activities to preserve historical elements of Building 1063, including limiting removal of the columns to only the area of excavation and preserving walls, roofs, and doorways.

As discussed in Section 3.2.3, the Trust will continue implementation of the groundwater monitoring program prescribed in the CAP. After TPHg, BTEX, and arsenic are demonstrated to be below cleanup levels for four consecutive sampling rounds, monitoring will be discontinued (subject to Water Board approval), and clean closure with regards to groundwater contamination will be documented in a site closure request. In accordance with the Water Board Order, a Five-Year Status Report, which evaluates the effectiveness of this CAP for groundwater, will be completed and submitted to the Water Board for approval.

As discussed in Section 2.4.5.4, prior to occupation of Building 1063, the Trust plans to conduct a soil vapor assessment to evaluate potential human health risks from vapor intrusion to indoor air from residual contaminants in soil beneath the southern building wall. If results of the risk assessment show risks to future building occupants, the Water Board and stakeholders will consulted concerning alternatives for mitigation and/or remediation of the contaminated soil left in place beneath the building.

8.0 REFERENCES

DHG Engineering, Inc., 2007. *Building Shoring Design*. July 9.

Erler and Kalinowski, Inc. (EKI), 2002. *Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water, Presidio of San Francisco, California*. October. Table 7-6 revised May 2006.

_____, 2004. *Petroleum Contingency Plan, Presidio of San Francisco, California*. August

_____, 2008a. *Building 1040 Indoor Air and Cap Assessment Work Plan for the Building 1065 Area Corrective Action Implementation Work Plan, Presidio Trust, San Francisco, California.* March.

_____, 2008b. *Draft Building 1040 Vapor Intrusion Assessment and Field Sampling Report, Presidio of San Francisco, California.* August.

Engineering/Remediation Resource Group, Inc. (ERRG), 2007b. *Supplemental Geotechnical Design Calculations*. October 1

MACTEC Engineering and Consulting, Inc. (MACTEC), 2007a. *Final Corrective Action Plan, Building 1065 Area, Presidio of San Francisco, California.* January 24.

_____, 2007b. *Technical Specifications and Drawings, Corrective Action Plan Implementation, Building 1065 Area, Presidio of San Francisco, California*. January.

_____, 2007c. Final *Corrective Action Implementation Work Plan, Building 1065 Area, Presidio of San Francisco, California*. May.

Presidio Trust (Trust), 2006. *Presidio Land Use Controls Master Reference Report, Presidio of San Francisco, California.* August.

_____, 2008. *Addendum to the Final Corrective Action Plan, Building 1065 Area, Presidio of San Francisco, San Francisco, California*. March 13.

Regional Water Quality Control Board, San Francisco Bay Region (Water Board), 2003. *Order No. R2-2-3-0800, Revised Site Cleanup Requirements and Rescission of Order No 91-082 and Order No. 96-070, the Presidio of San Francisco, City and County of San Francisco*.

_____, 2005. *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. Interim Final.* February.

T. Appel, 2009; ERRG. *Personal communication concerning backfilling of Excavation 2*. E-mail dated January 21, 2009.

Tetra Tech, 2001. *Presidio-Wide Quality Assurance Project Plan, Sampling and Analysis Plan, Presidio of San Francisco, San Francisco, California.* April.

Treadwell & Rollo, Inc. (T&R), 2007a. *Monitoring Well Destruction, Installation, and Development, Building 1065 Area, Presidio of San Francisco, San Francisco, California.*

_____, 2007b. *Semi-Annual Groundwater Monitoring Report, Presidio-Wide Quarterly Groundwater Monitoring Program, Presidio of San Francisco, California.*

TABLES

Table 1-1. Cleanup Levels for Soil

Chemica1 [a]	**Cleanup Level [c] (mg/kg)**	**(b)**
Total Petroleum Hydrocarbons (TPH)		
TPH (as gasoline) [d]	100	2
TPH (as diesel) [d]	115	2
TPH (as fuel oil) [d]	160	2
PAHs		
Acenaphthene	2,700	1
Acenaphthylene	--	--
Anthracene	308	2
Benzo(a)anthracene	0.43	2
Benzo(a)pyrene [d]	0.04	2
Benzo(b)fluoranthene	0.43	2
Benzo(g,h,i)perylene	620	2
Benzo(k)fluoranthene	0.43	2
Chrysene	4.3	2
Dibenzo(a,h)anthracene	0.078	1
Fluoranthrene	316	2
Fluorene	60	2
Indeno(1,2,3-c,d)pyrene	0.27	1
Naphthalene	9	2
Phenanthrene	86	2
Pyrene	241	2
VOCs		
Acetone	0.24	1
Benzene [d]	0.005	2
Bromodichloromethane	0.014	3
Bromoform	2.2	3
Bromomethane	0.22	3
2-Hexanone (MBK)[d]	2.8	4
Carbon disulfide	200	1
Carbon tetrachloride	0.012	3
Chlorobenzene	1.5	3
Chloroethane	0.63	3
2-Chloroethyl vinyl ether	--	--
Chloroform	0.098	3
Chloromethane	0.29	3

Table 1-1. Cleanup Levels for Soil

Chemica1 [(a)]	**Cleanup Level** [(c)] **(mg/kg)**	**(b)**
Dibromochloromethane	0.019	3
1-1-Dichloroethane	0.2	3
1,2-Dichloroethane	0.0045	3
cis-1,2-Dichloroethene	0.19	3
trans-1,2-Dichloroethene	0.67	3
1,2-Dichloropropane	0.052	3
cis-1,3-dichloropropene	0.033	3
trans-1,3-dichloropropene	0.033	3
Ethylbenzene [(d)]	13	2
2-Butanone (MEK)	3.9	1
Methylene chloride	0.076	1
Methyl-tert butyl ether	0.023	3
4-Methyl-2-pentanone (MIBK)	2.7	3
Styrene	1.5	3
1,1,2,2-Tetrachloroethane	0.0091	3
Tetrachloroethene	0.087	3
Toluene [(d)]	1	2
1,1,1-Trichloroethane	8	1
1,1,2-Trichloroethane	0.032	3
Trichloroethene	0.26	3
Vinyl acetate	430	3
Vinyl chloride	0.0067	3
Total Xylenes	33	2
Metals		
Aluminum	76,000	5
Antimony	29	1
Arsenic [(d)]	5.9	1
Barium	5,000	1
Beryllium	140	1
Cadmium [(d)]	1.7	1
Calcium	--	--
Chromium	1,200	1
Cobalt	4,000	1
Copper	230	3
Iron	--	--
Lead [(d)]	400	1
Magnesium	--	--
Manganese	1,800	5
Mercury	20	1
Molybdenum	360	1

Table 1-1. Cleanup Levels for Soil

Chemica1 [(a)]	**Cleanup Level** [(c)] **(mg/kg)**	**(b)**
Nickel	1,400	1
Potassium	--	--
Selenium	360	1
Silver	360	1
Sodium	--	--
Thallium	5.7	1
Vanadium	650	1
Zinc [(d)]	22,000	1

mg/kg = Milligram per kilogram
RWQCB ESL = Regional Water Quality Control Board Environmental Screening Levels
PRG = Preliminary Remediation Goal

(a) Only chemicals that were identified as COCs and/or were included in the confirmation sampling program are listed; chemicals shown in bold typeface are Site Chemicals of Concern.

(b) Cleanup levels selected from the following:

1 = Presidio-wide Cleanup Level Document (PWCLD; *EKI, 2002, revised 2006*), Table 7-2.

2 = Presidio-wide Cleanup Level Document (PWCLD; *EKI, 2002, revised 2006*), Table 7-5.

3 = RWQCB soil ESL (lowest of human toxicity and indoor air impacts) (*RWQCB, 2003*).

4 = RWQCB soil cleanup level (lowest of human toxicity and indoor air impacts) (*RWQCB, 2003*). Surrogate cleanup level for 2-hexanone is ESL for methyl isobutyl ketone (MIBK).

5 = Soil PRG (*USEPA, 2004*).

(c) Residential land use cleanup levels were selected, unless for metals, the background level was higher, then the background level was selected as the applicable cleanup level.

(d) Identified in MACTEC's January 24, 2007 Corrective Action Plan as a Chemical of Concern for the Building 1065 Area.

-- For chemicals with no cleanup levels, there are no Presidio cleanup levels, RWQCB ESLs, or USEPA PRGs.

Checked: SRG

Approved: MJH

Table 2-1. Summary of CAP Implementation Activities

Time Period	Description of Activities
February 26 through March 2, 2007	Treadwell and Rollo collected groundwater samples from piezometers 1065PZ1A and 1065PZ1B and wells 1065MW101 and 1065MW102 as part of the First Quarter 2007 Basewide Groundwater Monitoring Program.
May 30, 2007	Gregg Drilling and Testing (Gregg) abandoned piezometers 1065PZ1A and 1065PZ1B and wells 1065MW9A and 1065MW9B and installed new well 1065MW103A under the supervision of a field geologist from Treadwell & Rollo, Inc.
June 1, 2007	Blaine Tech developed 1065MW103A in accordance with the Presidio Trust's Standard Operating Procedure for Well Development.
June 7, 2007	Treadwell and Rollo collected groundwater samples from monitoring well 1065MW103A as part of the groundwater sampling program prescribed in the CAP and Work Plan.
June 12, 2007	Chaudhary, Inc. surveyed the location and elevation of the top of the casing of new well 1065MW103A.
June 21, 2007	Held pre-construction meeting with stakeholders.
July 6, 2007	Conducted pre-excavation survey of excavation areas.
August 21, 2007	Treadwell and Rollo collected groundwater samples from monitoring well 1065MW103A as part of the groundwater sampling program prescribed in the CAP and Work Plan.
October 15 through 26, 2007 (Weeks 1 & 2)	Mobilized equipment to Site including Conex box and 20,000-gallon storage tank. Erected fence around Site. Saw cut and removed asphalt from Excavation Areas 2 and 3. Saw cut of concrete in Excavation Area 1 and removal of concrete around the roof support columns. Removal of wood planks from mezzanine.
October 29 through November 2, 2007 (Week 3)	Set up soil stockpile area. Began excavation of Excavation 3. Installed excavation shoring. Removed conductor casing from former well in center of the excavation and grouted up the hole to prevent potential cross contamination. Removed vault on western end of Excavation 3 and began removal of pipe west of excavation. Began dewatering Excavation 3. Collected confirmation soil samples 1065EX350 through 1065EX362 and water sample 1065DE201 from the holding tank. First stakeholder progress meeting.
November 5 through 8, 2007 (Week 4)	Completed excavation of Excavation 3. Collected confirmation soil samples 1065EX363 through 1065EX365. Evaluated removal/redirection of sprinkler system from mezzanine section over Excavation 1. Received approval for and began discharge of water from holding tank into the sanitary sewer via gravity flow at an average 69 gallons per minute. Removed concrete and asphalt for recycling.
November 13 through 16, 2007 (Week 5)	Completed excavation of Excavation 2 to 7 feet bgs. Collected confirmation soil samples 1065EX341 through 1065EX345 from Excavation 2. Overexcavated Excavation 3 on the western sidewall where COC concentration in one confirmation sample exceeded the cleanup level. Collected confirmation soil samples 1065EX366 and 1065EX367 from Excavation 3. Stakeholder progress meeting and meeting to discuss Building 1040 Indoor Air and Cap Assessment Work Plan.
November 19 through 21, 2007 (Week 6)	Performed overexcavation of north, east, and west sidewalls of Excavation 2. Collected confirmation soil samples 1065EX346 through 1065EX348. Stakeholder progress meeting.
November 26 through December 7, 2007 (Weeks 7 & 8)	No work performed due to holiday and inclement weather.
December 10 through 14, 2007 (Week 9)	Conference call with Water Board and DTSC to discuss confirmation analytical results and obtain approval to backfill Excavations 2 and 3. Surveyed excavation limits and soil sample locations for Excavations 2 and 3. Project team technical meeting to develop strategy for addressing residual contamination left in place in northern sidewall of Excavation 3.
December 17 through 21, 2007 (Week 10)	Installed sump pump in Excavation 3 to draw down water before backfill operations. Placed woven filter fabric along north side of Excavation 3 to demark the northern excavation limits prior to backfill. Collected sample 1065SD100 from sediment within the 12-inch ID clay pipe exiting the western end of Excavation 3 and capped the pipe with a concrete plug before backfilling. Installed drain rock in Excavation 2 (to approximately 3.5 feet bgs) and Excavation 3 (to approximately 5 feet bgs) and began backfilling excavations with AB roadbase in 6-inch lifts to a 95% compaction.
December 24 through 27, 2007 (Week 11)	Continued backfilling activities. Some delays due to rain and holiday.
December 31, 2007 through January 4, 2008 (Week 12)	Short week due to holiday and rain. Continued backfill activities. Sprinkler system reroute work began.

Table 2-1. Summary of CAP Implementation Activities

Time Period	Description of Activities
January 7 through 11, 2008 (Week 13)	Completed the sprinkler system reroute. Completed demolition and removal of mezzanine over Excavation 1. Completed removal of shoring boxes from Excavation Area 3 and continue backfilling activities. Began shoring for first row of support columns inside Building 1063. Collected samples of drain rock and road base material from Aromas Quarry and submitted for analysis.
January 14 through 18, 2008 (Week 14)	Completed placement and compaction of backfill materials to the ground surface in Excavations 2 and 3. Completed installation of shoring for the northernmost row of support columns inside Building 1063.
January 21 through 25, 2008 (Week 15)	Placed asphaltic pavement over Excavation 2. Removed supports from northernmost row of support columns inside Building 1063 and excavated down to 10 feet bgs for concrete piers. Collected samples 1065EX301 and 1065EX302 at 8.5 feet bgs from beneath columns 2 and 3 (16 columns in area and numbered 1 through 16 from left to right and from the northernmost to southernmost rows).
January 28 through February 1, 2008 (Week 16)	Placed sono tubes and poured and tested concrete for northernmost row of support columns inside Building 1063. Replaced support columns with temporary supports and removed roof shoring from row. Stakeholder meeting to discuss Building 1040 Indoor Air and Cap Assessment Work Plan.
February 4 through 29, 2008 (Weeks 17 to 20)	Placed shoring, removed supports, excavated beneath supports to approximately 9.75 feet bgs. Placed sono tubes, poured and tested concrete to 4,000-psi, replaced building supports with temporary support columns, and removed shoring for rows 2 through 4 inside Building 1063. Teleconference - Test methods for evaluation of naphthalene in soil vapor.
March 3 through 7, 2008 (Week 21)	Began excavating Excavation 1 inside Building 1063. Collected confirmation soil samples 1065EX303 through 1065EX306. Discovered and removed a 4-inch ID clay pipe at approximately 6 feet bgs.
March 10 through 14, 2008 (Week 22)	Continued excavation of Excavation 1 inside Building 1063. Cleaned out holding tank with pressure washer - final discharge amount to sewer = 90,044 gallons
March 17 through 21, 2008 (Week 23)	Finished initial excavation of Excavation 1 inside Building 1063. Collected confirmation soil samples 1065EX308 through 1065EX314. Removed 20,000-gallon holding tank from site. Stakeholder meeting.
March 24 through 28, 2008 (Week 24)	Broke up concrete for disposal/recycling. Removed soil left in place (overexcavate) along eastern sidewall of Excavation 1. Collected confirmation soil sample 1065EX315[5.0] from eastern sidewall. Began backfilling of Excavation 1 with drain rock. Surveyed excavation limits and soil sample locations. Stakeholder meeting.
March 31 to May 2, 2008 (Weeks 25 - 29)	Completed backfill and compaction of Excavation 1 (drain rock to 4.5-feet bgs, AB road base from 4.5-feet bgs to surface). Shored up building roof. Removed temporary roof support columns. Poured new concrete footings and replaced the temporary columns with new permanent supports. Removed roof shoring (for first three rows of columns - northern rows). Loaded, hauled, and disposed of 78 loads of non-RCRA Class I hazardous waste to Kettleman Hills. EKI collected soil gas samples on April 18, 2008 from 6 locations outside Building 1040 (Sample locations 1040SG101 through 1040SG106).
May 5 through 9, 2008 (Week 30)	Excavated and removed 12-inch clay pipe entering the western end of Excavation 3 (removed approximately 60 feet of piping from a 2-foot wide by 8-foot deep trench). Collected confirmation soil samples (bottom samples beneath removed pipe) 1065EX368[8.0], 1065EX369[8.0], and 1065EX370[8.0].
May 12 through 16, 2008 (Week 31)	Continued to excavate and remove the 12-inch pipe that entered the western end of Excavation 3 - extended trench an additional 22 feet uncovering an inactive storm drain vault where the pipe terminated and two separate pipes entered. Collected sample 1065EX371[8.0] at the bottom of the storm drain vault foundation. Performed housekeeping inside Building 1063 and removed construction fencing from the site.
May 19 through June 6, 2008 (Weeks 32 -34)	June 3, 2008 - EKI performed indoor cap assessment at Building 1040 and MACTEC conducted outdoor cap inspection for LUC Zones 1, 2, and 3 (MACTEC).
June 9 through 13, 2008 (Week 35)	ERRG backfilled and compacted the sewer line excavation. T&R collected groundwater samples from wells 1065MW101, 1065MW102, and 1065MW103 as part of the Second Quarter 2008 Basewide Groundwater Monitoring Program.
June 16 through August 8, 2008 (Weeks 36 - 43)	On August 7, 2008, surveyed the sewer line excavation limits, final grade, and survey points for LUC zones.

Checked: SRG Approved: MJH

Table 2-2. Summary of Stakeholder Meetings

Date	Attendees	Purpose/ Discussion Topics	Key Discussion Points and Agreements
June 21, 2007	• Ryan Seelbach (Trust) • Brian Ullensvang (NPS) • Devender Narala (Water Board) • Melanie Enman (ERRG) • Mary Jo Heassler, Scott Graham, Ram Rao (MACTEC)	Overview of excavation approach	• Initial trenching would not be performed as the foundation shoring and column support design allowed for a phased approach to column removal and excavation. • The NPS would review some of the contractor submittals, specifically the shoring design, to ascertain whether the design might impact the planned remedy. • The same survey datum would be used for both well and excavation surveys. • The column supports and buttresses would extend into Bay Mud. • Excavation would target removal of petroleum-related contamination, not isolated metals or PAHs that are not associated with petroleum and may be from fill. The Trust would include stakeholders in discussions as to whether contamination is petroleum-related and whether excavation program meets remedial objectives. • The Trust planned to hold progress meetings with stakeholders at project milestones to provide updates, discuss issues, and make decisions. • ORC would only be applied to the excavation if confirmation sample analytical results do not meet cleanup levels for petroleum-related COCs. Stakeholders would be included in decisions regarding ORC application before the material is brought onsite. • The revised excavation approach would be documented by revising the work plan.
October 30, 2007	• Ryan Seelbach (Trust) • Brian Ullensvang (NPS) • Devender Narala (Water Board) • Tyson Appel (ERRG) • Ram Rao and Scott Graham, (MACTEC)	Progress to date at site	• Water Board and NPS were in concurrence with the approach used to address the survey conflicts documented in the August 29 progress report. • An approximate 12-inch diameter, 18.5-foot long steel conductor casing was discovered in Excavation 3. The hole through which the conductor casing was removed would be tremmie-grouted to seal the hole up to the surface. • The Area 1 excavation (inside Building 1063) would be partially backfilled. Accordingly, the Water Board requirement for nondetect concentrations of petroleum compounds in backfill in the upper 18-inches would not apply for backfill in Excavation Area 1.
November 13, 2007	• Ryan Seelbach (Trust) • Devender Narala (Water Board) • Tyson Appel (ERRG • Scott Graham (MACTEC)	Update on status of remedial construction and results of excavation confirmation sampling of Excavation 3	• For VOCs that do not have cleanup levels, the Water Board indicated that it would not be necessary to develop cleanup levels for these additional VOCs (many of which were not detected). • Excavation 3 would be backfilled by placing semi-impermeable fabric in the excavation, and backfilling the excavation with drain rock and Class II AB.
November 14, 2007	• Craig Cooper and Ryan Seelbach (Trust) • Devender Narala and Elizabeth Allen (Water Board) • Michelle King (EKI)	Water Board Comments on Draft Building 1040 Indoor Air and Cap Assessment Work Plan	• Trust stated that the CAP requirement for indoor air sampling varied from the IA guidance and work plan. • Water Board suggested that the CAP be clarified to state the intent was an indoor air assessment, rather than indoor air sampling. • If chemicals of concern are detected in soil gas at levels that could pose a significant risk from vapor intrusion to future

Table 2-2. Summary of Stakeholder Meetings

Date	Attendees	Purpose/ Discussion Topics	Key Discussion Points and Agreements
			occupants, the Trust could present options in the Completion Report for potential follow-up assessment as part of the redevelopment (e.g., seal cracks, positive pressure air displacement system, indoor air sampling). • Water Board stated that the guidance does not currently require indoor air sampling in an unoccupied building. • Participants agreed that if ESLs or site-specific goals are exceeded in soil gas, the rest of the guidance would be implemented prior to building occupancy. Interim restrictions could be incorporated into a LUC.
November 20, 2007	• Ryan Seelbach (Trust) • Devender Narala (Water Board) • Tyson Appel (ERRG • Scott Graham and Mary Jo Heassler (MACTEC)	Update on status of remedial construction and results of excavation confirmation sampling of Exavations 2 and 3	• The confirmation soil sample collected from the over-excavated sidewall at the west end of Excavation 3 (1065EX367[4.0]) showed that TPH fuel oil was detected at 5.6 mg/kg, indicating that soil containing TPH fuel oil above cleanup levels had been removed from the western portion of Excavation 3. • Soil on the north sidewall of Excavation 3 where TPH fuel oil, diesel, and gasoline exceeded cleanup levels would be removed when soil is excavated from Area 1. • Soil was excavated from Area 2 and confirmation sampling showed that detected concentrations of the PAH benzo(a)pyrene and TPH fuel oil were above cleanup levels in three sidewall samples. PAHs may be related to contaminated fill associated with Fill Site 6B. • It was agreed that the Trust would over-excavate soil at the location of the TPH fuel oil exceedance and would remove 1 to 3 feet of soil from the sidewalls where benzo(a)pyrene exceeded cleanup levels and collect confirmation samples. If this one round of over-excavation did not remove the PAH exceedances, then the Trust would consider addressing this area as part of Fill Site 6B. The Trust would discuss this approach with DTSC (Bob Boggs). • Confirmation samples from the over-excavated areas would be analyzed for TPH fuel oil, TPH diesel, and PAHs.
December 7, 2007	• Ryan Seelbach (Trust) • Devender Narala (Water Board) • Bob Boggs (DTSC)	Request to backfill Excavations 2 and 3. D. Narala attended by phone.	• Received authorization from Water Board to backfill Excavations 2 and 3. • DTSC suggested that filter fabric be placed against the west side of Excavation 2 where confirmation sample contains PAHs above cleanup levels. Following excavation, the FS 6B boundary would be re-drawn to include the west sidewall sample from Excavation 2 and any other chemicals that exceed for non fuel related contamination that is left in-place.
January 30, 2008	• Ryan Seelbach (Trust) • Devender Narala and Elizabeth Allen (Water Board) • Brian Ullensvang (NPS) • Doug Kern (RAB) • Michelle King (EKI)	Building 1040 Indoor Air and Cap Assessment Work Plan (1040 Work Plan)	• Performing a vapor intrusion potential assessment at Building 1040 (as proposed in the draft 1040 Work Plan) differed from the previously approved CAP, which called for indoor air monitoring at the Site. • An Addendum to the CAP (in the form of a letter) would be prepared to indicate that the indoor air sampling for Building 1040 identified in the CAP was modified to be a vapor intrusion assessment of Building 1040. • The 1040 Work Plan would be modified to be a vapor intrusion assessment that would include soil gas sampling as the first phase of the assessment. • Naphthalene could be a chemical of potential concern given that

Table 2-2. Summary of Stakeholder Meetings

Date	Attendees	Purpose/ Discussion Topics	Key Discussion Points and Agreements
			the release was fuel oil (and not gasoline). The proposed method for analysis TO-15 tends to underestimate naphthalene concentrations due to sorption of naphthalene onto the SUMMA canister. Cal-EPA is evaluating alternate methods for naphthalene analysis in air samples, such as TO-17.
February 22, 2008	• Ryan Seelbach (Trust) • Michelle King (EKI) • Elizabeth Allen (Water Board)	Teleconference - Test methods for evaluation of naphthalene in soil vapor	• A laboratory contacted regarding soil gas analytical methods indicated that Method TO-13 is a better method than TO-17 for analysis of naphthalene and other semi-volatile organic compounds, because TO-17 uses an adsorbent tube that is thermally desorbed (i.e., a destructive sampling technique in which a given sample cannot be re-analyzed), whereas the TO-13 adsorbent tube is extracted in a solvent and run like an EPA 8270 analysis. Therefore, the solvent extract can be re-analyzed, if necessary. • It was agreed that soil gas samples would be analyzed for VOCs using Method TO-15 and TO-13 would be used to analyze for naphthalene if naphthalene had been previously detected in soil samples collected from the Site. • Because there were insufficient data regarding naphthalene in soil, soil gas samples collected as part of the vapor intrusion assessment would be analyzed for VOCs and PAHs using both Methods TO-13 and TO-15.
March 18, 2008	• Ryan Seelbach, Eileen Fanelli (Presidio Trust) • Brian Ullensvang (NPS) • Agnes Farres (Water Board) • Tyson Appel, James Medley (ERRG) • Scott Graham (MACTEC)	Update on work performed in Excavations 1, 2, and 3; and planned work including shoring and excavation of soil beneath south building wall and removal of former sewer pipe	• Discussed samples collected from Excavation 1 and proposed sample locations for the remaining confirmation samples. • Agreed that the southernmost eastern sidewall sample would be collected as close to the foundation as possible by potholing near the foundation and collecting the sample at around 4 feet bgs (comparable to depth of 1065EX355). • Discussed the shoring plan for the building foundation along southern sidewall of Excavation 1 and cost for removal of soil. • Would estimate the mass of TPH gasoline in soil beneath the southern wall of Building 1063 and compare costs for excavation of soil vs. insitu treatment. Evaluation would be discussed in next stakeholder meeting.
March 25, 2008	• Ryan Seelbach and Eileen Fanelli (Presidio Trust) • Brian Ullensvang (NPS) • Agnes Farres (Water Board) • Bob Boggs (DTSC) • Doug Kern (RAB) • Tyson Appel and James Medley (ERRG) • Mary Jo Heassler and Scott Graham (MACTEC)	Update concerning excavation work inside of Building 1063 and discussion of the next steps for the remedial program	• Two sidewall confirmation samples collected from Excavation 1 contained TPH at concentrations exceeding cleanup levels, one collected on the east wall, the other in southeast corner of the excavation, adjacent to a shear wall. • Soil in the southeast corner could not be removed because of its proximity to the shear wall; however, soil on east sidewall could be removed by the excavation. No additional soil could be removed unless additional shoring is installed. • Soil at and beneath the south wall of Building 1063 contained TPH at concentrations exceeding cleanup levels protective of groundwater quality. There were also potential health risks from possible vapor intrusion into indoor air. It was not expected that there would be groundwater impacts from soil contamination left in place because pre-excavation groundwater monitoring in downgradient wells did not show petroleum hydrocarbons constituents at concentrations exceeding cleanup levels.

Table 2-2. Summary of Stakeholder Meetings

Date	Attendees	Purpose/ Discussion Topics	Key Discussion Points and Agreements
			• Estimated costs for removal of soil beneath the wall including installation of shoring, excavation of soil, and offsite disposal of soil was approximately $50,000. • The estimate of TPH gasoline remaining in soil, assuming that maximum detected concentration of TPH gasoline was present below 4 feet was approximately 105 pounds. • The cost of ORC advanced to address residual contamination would be $5,000. There would be additional costs associated with injection of ORC, monitoring, confirmation sampling, and reporting. • There would be likely future additional costs associated with engineered controls for installation of vapor barriers to reduce potential vapor migration to indoor air. • Before soil could be excavated beneath the wall, shoring needed to be installed beneath the wall. Prior to installation of shoring, the rest of the excavation needed to be backfilled. • Backfilling would take about 2 to 3 weeks so there would be time for decisions to be made concerning removal of soil beneath the south building wall. • It was agreed that ERRG would excavate soil from the east wall of Excavation 1 to the limits of the area where columns had been removed and remove any sloughed soil from the floor of the excavation and that MACTEC would collect a confirmation soil sample from the east wall to verify that the contaminated soil had been removed. • It was agreed that after soil was excavated and an additional confirmation sample collected, Excavation 1 could be backfilled. • It was agreed that a cost estimate would be prepared for insitu treatment of soil to include post application costs to include monitoring, confirmation sampling, and reporting. These cost estimates would be discussed in the next meeting and decisions made regarding contamination beneath the south building wall.

April 8, 2008			• Alternatives for addressing contamination beneath the building wall were discussed and included:
			  • No Action - Leave contaminated soil in place and address with a LUC.
			  • Excavation - Install shoring, excavate the majority of contamination beneath the building wall, and treat contaminated soil left in place at the southeast corner of Excavation 1 with ORC or RegenOx™ insitu.
			  • ORC Advanced™ Injection - Treat TPH left in place beneath the building wall by injection of ORC Advanced™ using direct push injection angle borings.
			  • ORC Advanced™ Trench Application - Treat TPH left in place using ORC Advanced™ placed in a trench along the south side of the wall.
			  • RegenOx™ Injection - Treat TPH left in place through injection of RegenOx™ using direct push injection angle borings.
			  • RegenOx™ Trench Application - Treat contaminants left in place using RegenOx™ placed in a trench along the south side of the building wall.
			• As presented in the alternatives table, the five methods for remediation of the remaining soil beneath the southern building

Table 2-2. Summary of Stakeholder Meetings

Date	Attendees	Purpose/ Discussion Topics	Key Discussion Points and Agreements
			wall involved high costs for incomplete removal of contamination and similar groundwater monitoring costs and potential costs for indoor vapor monitoring. • There were concerns expressed about leaving soil above cleanup levels beneath Building 1063 due to the potential human health risk associated with the proposed water treatment plant construction and occupation. • Based on evaluation of alternatives and relative costs, it was agreed that contamination would be left in place. Prior to construction of the treatment plant in Building 1063, the Trust would conduct a soil vapor risk assessment to assess whether there is human health risk from vapor intrusion to indoor air from residual contaminants in soil. The Trust, NPS, Water Board, and stakeholders would evaluate alternatives for mitigation and/or remediation of the contaminated soil left in place pending results of the soil vapor assessment. • The Trust would continue groundwater monitoring as outlined in the Corrective Action Plan and Corrective Action Work Plan.
May 27, 2008	• Ryan Seelbach and Eileen Fanelli (Presidio Trust) • Brian Ullensvang (NPS) • Agnes Farres (Water Board) • Bob Boggs (DTSC).	Update on results of sewer line removal west of Building 1063. Present the results and recommendations of the Building 1040 soil vapor assessment Onsite backfill source	• Trust presented the sampling data and observations of the sewer line where it terminated at the vault. • Two sewer lines that entered the vault did not contain black sludge, lines were plugged. • Samples were collected from soil beneath the line and results showed that COC concentrations were nondetect or below cleanup levels. • Water Board authorized the Trust to backfill the pipe excavation. • Water Board gave approval to use 'dustbowl" material as backfill. • Findings of the Building 1040 soil vapor assessment showed no contaminants above ESLs.

AB	Aggregate base
CAP	Corrective Action Plan
COC	Chemical of concern
DTSC	Department of Toxic Substances Control
ESLs	Environmental Screening Levels
ERRG	Engineering/Remediation Resources Group, Inc.
IA	Interim Action
LUC	Land use control
MACTEC	MACTEC Engineering and Consulting, Inc
NPS	National Park Service
PAH	Polycylic aromatic hydrocarbons
ORC	Oxygen releasing compound
TPH	Total petroleum hydrocarbons
Trust	Presidio Trust
VOCs	Volatile organic compounds
Water Board	California Regional Water Quality Control Board

Checked: SRG

Approved: MJH

Table 2-3. Wastewater Analytical Results and Discharge Limits

Test Method	Analyte Name	Analytical Results for 1065DE210 collected on 10/31/07	Analytical Results for DUP103107 collected on 10/31/07	Discharge Limit [a]
150.1	pH	7.5	7.5	6.0-9.5
	Temperature	NT	NT	125°F
6010B[b]	Arsenic	0.013 mg/L	0.012 mg/L	4.0 mg/L
	Cadmium	ND (0.005 mg/L)	ND (0.005 mg/L)	0.5 mg/L
	Chromium	0.015 mg/L	0.0057 mg/L	5.0 mg/L
	Copper	0.050 mg/L	0.023 mg/L	4.0 mg/L
	Lead	0.054 mg/L	0.087 mg/L	1.5 mg/L
	Nickel	0.016 mg/L	0.0086 mg/L	2.0 mg/L
	Silver	ND (0.005 mg/L)	ND (0.005 mg/L)	0.6 mg/L
	Zinc	0.20 mg/L	0.12 mg/L	7.0 mg/L
7470A[c]	Mercury	ND (0.0002 mg/L)	0.00018 mg/L /J	0.05 mg/L
1664T[d]	TPH Total Recoverable Petroleum Hydrocarbons	NA[i]	NA[i]	300 mg/L
1664S(e)	TPH Oil and Grease	ND (4.7 mg/L)	ND (4.7 mg/L)	100 mg/L
8260B	Acetone	NT	NT	N/A
	Benzene	NT	NT	500
	Chloroform	NT	NT	6,000
	Ethylbenzene	NT	NT	N/A
	Tetrachloroethene	NT	NT	7,000
	Toluene	NT	NT	N/A
	Xylenes (m&p-)	NT	NT	N/A
4500Cn-E[f]	Cyanide	ND (0.01 mg/L)	ND (0.01 mg/L)	1.0 mg/L
420.1[g]	Phenols	ND (0.05 mg/L)	0.064 mg/L	23.0 mg/L
SM 4500S2-D[h]	Dissolved Sulfides	ND (0.04 mg/L)	ND (0.04 mg/L)	0.5 mg/L

mg/L = milligrams per liter.

N/A = not applicable, no discharge limit for this analyte.

NT = Not tested.

(a) = Numerical values from San Francisco Public Utilities Commission Industrial User Class II Wastewater Permit No. 05-0246 for the Presidio of San Francisco.

(b) = Analytical method specified in Presidio-Wide QAPP For Total Metals is SW 6010; in compliance with the 40CFR Methods Update Rule effective 4/11/07, method 200.7 will be used instead.

(c) = Analytical method specified in Presidio-Wide QAPP for Total Mercury is SW 7470; in compliance with the 40CFR Methods Update Rule effective 4/11/07, method 245.1 will be used instead.

(d) = Analytical method specified in Presidio-Wide QAPP for TPH Total Recoverable Petroleum Hydrocarbons is EPA 418.1; in compliance with the 40CFR Methods Update Rule effective 4/11/07 method 1664T will be used instead.

(e) = Analytical method specified in Presidio-Wide QAPP for TPH Oil and Grease is EPA 413.1; in compliance with the 40CFR Methods Update Rule effective 4/11/07 method1664S will be used instead.

(f) = Analytical method specified in Presidio-Wide QAPP for Cyanide is SW 9012; in compliance with the 40CFR Methods Update Rule effective 4/11/07, method SM 4500Cn-E will be used instead.

(g) = Analytical method specified in Presidio-Wide QAPP for Phenols is SW 9065; in compliance with the Method 40CFR Methods Update Rule effective 4/11/07, method 420.1 will be used instead.

(h) Analytical method specified in Wastewater Permit No. 05-0246 is for total organic carbon; dissolved sulfide will be analyzed using test method SM 4500S2-D.

(i) TPH Total Recoverable Petroleum Hydrocarbon silica gel extraction not performed because Total Oil and Grease test results were non detect.

Checked: SRG Approved: MJH

Table 2-4. Sampling Program Summary

Area	Station	Matrix	Sample Numbers	Location (bottom or sidewall)	Time Sampled		Grid Location			PID Measurement	Sample Type	COC Number	Date Sent to Laboratory	TAT	Encore Samplers	BTEX (8260B)	VOCs including BTEX and 2-hexanone (8260B)			TPHg (8015M)			TPHd & TPHfo (8015M) with Silica Gel Cleanup (3630A)			PAHs (8270-SIM)			Lead & Arsenic (6010)	Title 22 metals (6000-7000 Series)			Organochlorine Pesticides (8081A)		Chlorinated Herbicides (8151A)		Organophosphorus Pesticides (8141A)		Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Silver, Zinc and Mercury (200.7/245.1)	TRPH (1664T)	Oil & Grease (1664S)	Phenols (420.1)	pH (150.01)	Cyanide & Dissolved Sulfides (SM4500Cn-E & SM52-D)
					Date	Time	Northing (feet[A])	Easting (feet[B])	Depth (feet bgs)	(ppm)					#	48-hr	48-hr	72-hr	5-day	48-hr	72-hr	5-day	48-hr	72-hr	5-day	48-hr	72-hr	5-day	48-hr	48-hr	72-hr	5-day	72-hr	5-day	72-hr	5-day	72-hr	5-day	48-hr	48-hr	48-hr	48-hr	48-hr	48-hr
												Total # of Soil Samples Analyzed			390	2	31	2	21	32	2	21	32	2	21	30	2	21	2	30	2	21	2	2	2	2	2	2	0	0	0	0	0	0
												Total # of Water Samples Analyzed			0	0	2	0	8	0	0	8	0	0	4	0	0	4	0	0	0	4	0	0	0	0	0	0	2	2	2	2	2	2
SOIL MATRIX															**SOIL MATRIX**																													
Building 1065 Confirmation Sampling	Area 1 - Building Interior	Soil	1065EX301[8.5]	B	01/22/08	1430	49N	48E	8.5	8.3	Primary	3836	1/22/2008	48 hr	6	1				1			1						1															
		Soil	1065EX302[8.5]	B	01/22/08	1510	49N	60E	8.5	187	Primary	3836	1/22/2008	48 hr	6	1				1			1						1															
		Soil	1065EX303[7.0]	B	03/06/08	800	50N	67E	7	12.5	Primary + MS/MSD	3833	3/6/2008	48 hr	12		1			1			1			1				1														
		Soil	DUP030608	B	03/06/08	800	50N	67E	7	12.5	QC	3833	3/6/2008	48 hr	6		1			1			1			1				1														
		Soil	1065EX304[7.5]	B	03/06/08	905	54N	46E	7.5	0	Primary	3833	3/6/2008	48 hr	6		1			1			1			1				1														
		Soil	1065EX305[6.0]	SW	03/06/08	945	55N	61E	6	0.2	Primary	3834	3/6/2008	5-day	6				1			1			1			1			1														
		Soil	1065EX306[6.0]	SW	03/06/08	1020	57N	37E	6	0	Primary	3834	3/6/2008	5-day	6				1			1			1			1			1														
		Soil	1065EX307[6.0]	SW	03/19/08	1005	51N	76E	6	0	Primary + MS/MSD	3835	3/19/2008	48 hr	12		1													1														
		Soil	1065EX308[6.0]	SW	03/19/08	1025	50N	32E	6	35.6	Primary	3835	3/19/2008	48 hr	6		1			1			1			1				1														
		Soil	1065EX309[6.5]	SW	03/19/08	1040	30N	31E	6.5	186	Primary	3835	3/19/2008	48 hr	6		1			1			1			1				1														
		Soil	1065EX310[7.0]	SW	03/19/08	1105	12N	31E	7	2.3	Primary	3835	3/19/2008	48 hr	6		1			1			1			1				1														
		Soil	1065EX311[8.5]	B	03/19/08	1125	21N	44E	8.5	2.3	Primary	3835	3/19/2008	48 hr	6		1			1			1			1				1														
		Soil	DUP031908	B	03/19/08	1125	21N	44E	8.5	2.3	QC	3835	3/19/2008	48 hr	6		1			1			1			1				1														
		Soil	1065EX312[6.0]	B	03/19/08	1150	26N	66E	6	0.2	Primary	3835	3/19/2008	48 hr	6		1			1			1			1				1														
		Soil	1065EX313[4.5]	SW	03/19/08	1200	3N	80E	4.5	1291	Primary	3835	3/19/2008	48 hr	6		1			1			1			1				1														
		Soil	1065EX314[5.5]	SW	03/19/08	1215	29N	71E	5.5	0.5	Primary	3835	3/19/2008	48 hr	6		1			1			1			1				1														
		Soil	1065EX315[5.0]	SW	03/26/08	1045	27N	76E	5	0.2	Primary + MS/MSD	3837	3/26/2008	48 hr	12				1			1			1			1				1														
	Area 2 - Northern Excavation	Soil	1065EX341[7.0]	B	11/12/07	1150	69N	37E	7.0	21.3	Primary	3826	11/12/2007	48 hr	6		1			1			1			1				1														
		Soil	DUP111207	B	11/12/07	1150	69N	37E	7.0	NA	QC	3826	11/12/2007	48 hr	6		1			1			1			1				1														
		Soil	1065EX342[5.0]	SW	11/12/07	1015	69N	32E	5.0	114	Primary	3826	11/12/2007	48 hr	6		1			1			1			1				1														
		Soil	1065EX343[5.0]	SW	11/12/07	1020	64N	38E	5.0	46.7	Primary + MS/MSD	3826	11/12/2007	48 hr	12		1			1			1			1				1														
		Soil	1065EX344[5.0]	SW	11/12/07	1030	74N	35E	5.0	113	Primary	3826	11/12/2007	48 hr	6		1			1			1			1				1														
		Soil	1065EX345[5.0]	SW	11/12/07	1040	70N	41E	5.0	74.4	Primary	3826	11/12/2007	48 hr	12		1			1			1			1				1														
		Soil	1065EX346[5.0]	SW	11/21/07	945	71N	42E	5.0	0	Primary + MS/MSD	3828	11/21/2007	48 hr	6		1			1			1			1				1														
		Soil	1065EX347[5.0]	SW	11/21/07	950	75N	37E	5.0	0	Primary	3828	11/21/2007	48 hr	6		1			1			1			1				1														
		Soil	1065EX348[5.0]	SW	11/21/07	1000	70N	29E	5.0	1.3	Primary	3828	11/21/2007	48 hr	6		1			1			1			1				1														

Table 2-4. Sampling Program Summary

Area	Station	Matrix	Sample Numbers	Location (bottom or sidewall)	Time Sampled		Grid Location			PID Measurement	Sample Type	COC Number	Date Sent to Laboratory	TAT	Encore Samplers	BTEX (8260B)	VOCs including BTEX and 2-hexanone (8260B)			TPHg (8015M)			TPHd & TPHfo (8015M) with Silica Gel Cleanup (3630A)			PAHs (8270-SIM)			Lead & Arsenic (6010)	Title 22 metals (6000-7000 Series)			Organochlorine Pesticides (8081A)		Chlorinated Herbicides (8151A)		Organophosphorus Pesticides (8141A)		Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Silver, Zinc and Mercury (200.7/245.1)	TRPH (1664T)	Oil & Grease (1664S)	Phenols (420.1)	pH (150.01)	Cyanide & Dissolved Sulfides (SM4500Cn-E & SM52-D)
							Northing	Easting	Depth																																		
					Date	Time	(feet[A])	(feet[B])	(feet bgs)	(ppm)					#	48-hr	48-hr	72-hr	5-day	48-hr	72-hr	5-day	48-hr	72-hr	5-day	48-hr	72-hr	5-day	48-hr	48-hr	72-hr	5-day	72-hr	5-day	72-hr	5-day	72-hr	5-day	48-hr	48-hr	48-hr	48-hr	48-hr	48-hr
												Total # of Soil Samples Analyzed			390	2	31	2	21	32	2	21	32	2	21	30	2	21	2	30	2	21	2	2	2	2	2	2	0	0	0	0	0	0
												Total # of Water Samples Analyzed			0	0	2	0	8	0	0	8	0	0	4	0	0	4	0	0	0	4	0	0	0	0	0	0	2	2	2	2	2	2
SOIL MATRIX															**SOIL MATRIX**																												
	Area 3 - Southern Excavation	Soil	1065EX350[4.0]	SW	10/30/07	835	0	30E	4	1204	Primary	3817	10/30/2007	5-day	6				1			1			1			1			1														
		Soil	DUP103007	SW	10/30/07	835	0	30E	4	NA	QC	3817	10/30/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX351[4.0]	SW	10/30/07	910	17S	30E	4	76.7	Primary	3817	10/30/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX352[4.0]	SW	10/30/07	945	0	50E	4	1027	Primary + MS/MSD	3817	10/30/2007	5-day	12				1			1			1			1			1														
		Soil	1065EX353[4.0]	SW	10/30/07	1010	17S	50E	4	16	Primary	3817	10/30/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX354[4.0]	SW	10/30/07	1405	0	10E	4	59.8	Primary	3819	10/30/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX355[4.0]	SW	10/30/07	1435	1S	70E	4	1384	Primary	3817	10/30/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX356[4.0]	SW	10/30/07	1450	17S	70E	4	3.5	Primary	3817	10/30/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX357[4.0]	SW	10/31/07	830	6S	84E	4	527	Primary	3820	10/31/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX358[4.0]	SW	10/31/07	1015	17S	10E	4	28.2	Primary	3820	10/31/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX359[4.0]	SW	11/01/07	1305	8S	15W	4	90.3	Primary + MS/MSD	3823	11/1/2007	5-day	12				1			1			1			1			1														
		Soil	1065EX360[4.0]	SW	11/01/07	1330	11S	15W	4	85.4	Primary	3823	11/1/2007	5-day	6				1			1			1			1			1														
		Soil	DUP110107	SW	11/01/07	1330	11S	15W	4	NA	QC	3823	11/1/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX361[4.5]	SW	11/01/07	1440	13S	35W	4.5	4.2	Primary	3823	11/1/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX362[5.5]	B	11/01/07	1505	11S	20W	5.5	3.8	Primary	3823	11/1/2007	5-day	6				1			1			1			1			1														
		Soil	1065EX363[8.0]	B	11/07/07	850	8S	43E	8	8.2	Primary + MS/MSD	3825	11/7/2007	48 hr	12		1			1			1			1			1															
		Soil	1065EX364[6.0]	B	11/07/07	945	6S	65E	6	37	Primary	3825	11/7/2007	48 hr	6		1			1			1			1			1															
		Soil	1065EX365[6.5]	B	11/07/07	1315	7S	15E	6.5	62	Primary	3825	11/7/2007	48 hr	6		1			1			1			1			1															
Building 1065 Confirmation Sampling (cont.)	Area 3 - Southern Excavation (cont.)	Soil	1065EX366[4.0]	SW	11/14/07	940	5S	84E	4	NM	Primary	3827	11/14/2007	48 hr	6		1			1			1			1			1															
		Soil	1065EX367[4.0]	SW	11/14/07	930	12S	15W	4	NM	Primary + MS/MSD	3827	11/14/2007	48 hr	6		1			1			1			1			1															
		Soil	1065EX368[8.0]	B	05/09/08	855	14S	45W	8	0.7	Primary + MS/MSD	3838	5/9/2008	48 hr	12		1			1			1			1			1															
		Soil	1065EX369[8.0]	B	05/09/08	1220	20S	70W	8	33	Primary	3858	5/9/2008	48 hr	6		1			1			1			1			1															
		Soil	1065EX370[8.0]	B	05/09/08	1420	21S	93W	8	0	Primary	3858	5/9/2008	48 hr	6		1			1			1			1			1															
		Soil	DUP050908	B	05/09/08	1420	21S	93W	8	0	QC	3858	5/9/2008	48 hr	6		1			1			1			1			1															
		Soil	1065EX371[8.0]	B	05/13/08	1130	21S	102W	8	0	Primary	3839	5/13/2008	48 hr	6		1			1			1			1			1															
Sediment Samples	Sediments inside storm drain Pipes	Soil	1065SD100[5.5]	NA	12/19/07	845	13S	35W	5.5	NM	Primary + MS/MSD	3829	12/19/2007	5-day	12				1			1			1			1			1														
		Soil	1065SD101[6.5]	NA	05/13/08	1050	32S	98W	6.5	0	Primary + MS/MSD	3839	5/13/2008	On Hold	12																														
		Soil	1065SD102[7.0]	NA	05/13/08	1110	23S	115W	7	0	Primary	3839	5/13/2008	On Hold	6																														

Table 2-4. Sampling Program Summary

Area	Station	Matrix	Sample Numbers	Location (bottom or sidewall)	Time Sampled		Grid Location			PID Measurement	Sample Type	COC Number	Date Sent to Laboratory	TAT	Encore Samplers	BTEX (8260B)	VOCs including BTEX and 2-hexanone (8260B)			TPHg (8015M)			TPHd & TPHfo (8015M) with Silica Gel Cleanup (3630A)			PAHs (8270-SIM)			Lead & Arsenic (6010)	Title 22 metals (6000-7000 Series)			Organochlorine Pesticides (8081A)		Chlorinated Herbicides (8151A)		Organophosphorus Pesticides (8141A)		Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Silver, Zinc and Mercury (200.7/245.1)	TRPH (1664T)	Oil & Grease (1664S)	Phenols (420.1)	pH (150.01)	Cyanide & Dissolved Sulfides (SM4500Cn-E & SM52-D)
					Date	Time	Northing (feet[A])	Easting (feet[B])	Depth (feet bgs)	(ppm)					#	48-hr	48-hr	72-hr	5-day	48-hr	72-hr	5-day	48-hr	72-hr	5-day	48-hr	72-hr	5-day	48-hr	48-hr	72-hr	5-day	72-hr	5-day	72-hr	5-day	72-hr	5-day	72-hr	5-day	48-hr	48-hr	48-hr	48-hr	48-hr	48-hr
													Total # of Soil Samples Analyzed		390	2	31	2	21	32	2	21	32	2	21	30	2	21	2	30	2	21	2	2	2	2	2	2	0	0	0	0	0	0
													Total # of Water Samples Analyzed		0	0	2	0	8	0	0	8	0	0	4	0	0	4	0	0	0	4	0	0	0	0	0	0	2	2	2	2	2	2
SOIL MATRIX															**SOIL MATRIX**																														
Backfill Testing	Imported Backfill	Soil	1065BC400	4-pt composite	10/15/07		NA	NA	NA	NA	Primary			72 hr				1			1			1			1			1		1		1		1								
		Soil	1065BC401	4-pt composite	10/15/07		NA	NA	NA	NA	Primary			72 hr				1			1			1			1			1		1		1		1								
		Soil	1065BC402	4-pt composite	01/11/08	1100	NA	NA	NA	NA	Primary	3830	1/14/2008	5-day					1			1			1			1				1		1		1		1								
		Soil	1065BC403	4-pt composite	01/11/08	1110	NA	NA	NA	NA	Primary	3830	1/14/2008	5-day					1			1			1			1				1		1		1		1								
WATER MATRIX															**WATER MATRIX**																														
	Discharge Samples	water	1065DE210	Holding tank	10/31/07	1430	NA	NA	NA	NA	Primary	3820	10/31/2007	48 hr			1																						1	1	1	1	1	1
		water	DUP103107		10/31/07	1430	NA	NA	NA	NA	QC	3820	10/31/2007	48 hr			1																						1	1	1	1	1	1
		water	1065DE211		11/06/07	840	NA	NA	NA	NA	Primary	3824	11/7/2007	On Hold																																
QC	Equipment blank	water	1065EX353RB354	NA	10/30/07	1345	NA	NA	NA	NA	QC	3818	10/30/2007	standard					1			1			1			1				1														
	Equipment blank	water	1065EX357RB358	NA	10/31/07	900	NA	NA	NA	NA	QC	3821	10/31/2007	standard					1			1			1			1				1														
	Equipment blank	water	1065EX360RB361	NA	11/01/07	1420	NA	NA	NA	NA	QC	3823	11/1/2007	standard					1			1			1			1				1														
	Equipment blank	water	1065EX303RB304	NA	03/06/08	8:45	NA	NA	NA	NA	QC	3832	3/6/2008	standard					1			1			1			1				1														
	Trip Blank	water	TB103007	NA	10/30/07	NA	NA	NA	NA	NA	QC	3818	10/30/2007	standard					1			1																							
	Trip Blank	water	TB103107	NA	10/31/07	NA	NA	NA	NA	NA	QC	3821	10/31/2007	standard					1			1																							
	Trip Blank	water	TB110107	NA	11/01/07	NA	NA	NA	NA	NA	QC	3823	11/1/2007	standard					1			1																							
	Trip Blank	water	TB110607	NA	11/06/07	NA	NA	NA	NA	NA	QC	3824	11/7/2007	On Hold																															
	Trip Blank	water	TB030608	NA	03/06/08	NA	NA	NA	NA	NA	QC	3832	3/6/2008	standard					1			1																							

bgs = below ground surface

TAT = turn around time

[A] Feet north of southern wall of building using the orientation of the building to determine direction (i.e., southern wall considered to be perpendicular to north, not true north).

[B] Feet east of western interior wall of the building using the orientation of the building to determine direction (i.e., west wall considered to be parallel to north, not true north).

Checked: SRG

Approved: MJH

Table 2-5. Sediment Sample Results - TPH
Former Sewer Line - Excavation 3

		Analyte	TPH Diesel (C12-C24)		TPH Fuel Oil (C24-C36)		TPH Gasoline (C7-C12)	
		Cleanup Level	**115 mg/kg**		**160 mg/kg**		**100 mg/kg**	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual
1065SD100	1065SD100[5.5]	19-Dec-07	**7,700.**		**14,000.**		**850.**	**J/Y**

Checked: SRG

Approved: MJH

-- Indicates no cleanup level identified in the CAP

mg/kg Milligrams per kilogram

Results outlined in a box indicate detected concentration exceeds the cleanup level.

Table 2-6. Sediment Sample Results - PAHs
Former Sewer Line - Excavation 3

		Analyte Cleanup Level	2-Methyl-naphthalene - mg/kg		Acenaphthene 2700 mg/kg		Acenaphthylene -- mg/kg		Anthracene 308 mg/kg		Benzo(a)-anthracene 0.43 mg/kg		Benzo(a)pyrene 0.04 mg/kg		Benzo(b)-fluoranthene 0.43 mg/kg		Benzo(g,h,i)-perylene 620 mg/kg		Benzo(k)-fluoranthene 0.43 mg/kg		Chrysene 4.3 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065SD100	1065SD100[5.5]	19-Dec-07	**0.24**	**/J**	**2.3**		**0.5**	**/J**	**0.67**	**/J**	**1.8**		**2.6**		**3.6**		**1.4**	**/J**	**0.75**	**/J**	**3.1**	

--	Indicates no cleanup level identified in the CAP
mg/kg	Milligram per kilogram
ND(1.5)	Not detected at reporting limit indicated in parentheses
	Results outlined in a box indicate detected concentration exceeds the cleanup level.

Table 2-6. Sediment Sample Results - PAHs
Former Sewer Line - Excavation 3

		Analyte Cleanup Level	Dibenzo(a,h)-anthracene 0.078 mg/kg	Fluoranthene 316 mg/kg	Fluorene 60 mg/kg	Indeno(1,2,3-cd)-pyrene 0.27 mg/kg	Naphthalene 9 mg/kg	Phenanthrene 86 mg/kg	Pyrene 241 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(1.5)	**7.1**	**1.7**	**0.93 /J**	**0.89 /J**	**3.5**	**9.2**

-- Indicates no cleanup level identified in the
mg/kg Milligram per kilogram
ND(1.5) Not detected at reporting limit indicated in
Results outlined in a box indicate detected

Checked: SRG

Approved: MJH

Table 2-7. Sediment Sample Results - VOCs
Former Sewer Line - Excavation 3

		Analyte Cleanup Level	1,1,1,2-Tetrachloroethane - mg/kg		1,1,1-Trichloroethane 8 mg/kg		1,1,2,2-Tetrachloroethane 0.0091 mg/kg		1,1,2-Trichloroethane 0.032 mg/kg		1,1-Dichloroethane 0.2 mg/kg		1,1-Dichloroethene -- mg/kg		1,1-Dichloropropene -- mg/kg		1,2,3-Trichlorobenzene -- mg/kg		1,2,3-Trichloropropane -- mg/kg		1,2,4-Trichlorobenzene -- mg/kg		1,2,4-Trimethylbenzene -- mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)	

		Analyte Cleanup Level	1,2-Dibromo-3-chloropropane - mg/kg		1,2-Dibromoethane - mg/kg		1,2-Dichlorobenzene -- mg/kg		1,2-Dichloroethane 0.0045 mg/kg		1,2-Dichloroethene (cis) 0.19 mg/kg		1,2-Dichloroethene (trans) 0.67 mg/kg		1,2-Dichloropropane 0.052 mg/kg		1,3,5-Trimethylbenzene -- mg/kg		1,3-Dichlorobenzene -- mg/kg		1,3-Dichloropropane -- mg/kg		1,3-Dichloropropene (cis) 0.033 mg/kg		1,3-Dichloropropene (trans) 0.033 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)	

		Analyte Cleanup Level	1,4-Dichlorobenzene -- mg/kg		2,2-Dichloropropane -- mg/kg		2-Butanone 3.9 mg/kg		2-Chlorotoluene -- mg/kg		2-Hexanone 2.8 mg/kg		4-Chlorotoluene -- mg/kg		4-Methyl-2-pentanone 2.7 mg/kg		Acetone 0.24 mg/kg		Benzene 0.005 mg/kg		Bromobenzene -- mg/kg		Bromochloro-methane -- mg/kg		Bromodichloro-methane 0.014 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)		ND(7.7)		ND(15)		ND(7.7)		ND(15)		ND(7.7)		ND(15)		ND(31)		ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)	

		Analyte Cleanup Level	Bromoform 2.2 mg/kg		Bromomethane 0.22 mg/kg		Carbon disulfide 200 mg/kg		Carbon tetrachloride 0.012 mg/kg		Chlorobenzene 1.5 mg/kg		Chloroethane 0.63 mg/kg		Chloroform 0.098 mg/kg		Chloromethane 0.29 mg/kg		Dibromochloro-methane 0.019 mg/kg		Dibromomethane -- mg/kg		Dichlorodifluoro-methane -- mg/kg		Ethylbenzene 13 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)		ND(15)		ND(7.7)		ND(7.7)		ND(7.7)		ND(15)		ND(7.7)		**4.2 /J**		ND(7.7)		ND(7.7)		ND(15)		ND(7.7)	

		Analyte Cleanup Level	Freon 113 -- mg/kg		Hexachlorobutadiene -- mg/kg		Isopropylbenzene -- mg/kg		Methylene chloride 0.076 mg/kg		Methyl-tert-butyl ether 0.023 mg/kg		Naphthalene 9 mg/kg		n-Butylbenzene -- mg/kg		n-Propylbenzene -- mg/kg		p-Isopropyltoluene -- mg/kg		sec-Butylbenzene -- mg/kg		Styrene 1.5 mg/kg		tert-Butylbenzene -- mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)		ND(7.7)		ND(7.7)		ND(31)		ND(7.7)		ND(7.7)		ND(7.7) U		ND(7.7)		ND(7.7)		**2.1 /J**		ND(7.7)		ND(7.7)	

		Analyte Cleanup Level	Tetrachloroethene 0.087 mg/kg		Toluene 1 mg/kg		Trichloroethene 0.26 mg/kg		Trichlorofluoro-methane -- mg/kg		Vinyl acetate 430 mg/kg		Vinyl chloride 0.0067 mg/kg		Xylenes (m&p-) 33 mg/kg		Xylenes (o-) 33 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)		ND(7.7)		ND(7.7)		ND(7.7)		ND(77)		ND(15)		ND(7.7)		ND(7.7)	

Checked: SRG

--	Indicates no cleanup level identified in the CAP.
mg/kg	Milligram per kilogram
ND(7.7)	Not detected at reporting limit indicated in parentheses.
	Results outlined in a box indicate detected concentration exceeds the cleanup level.

Approved: MJH

Table 2-8. Sediment Sample Results - Metals
Former Sewer Line - Excavation 3

		Analyte	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**
		Cleanup Level	**29 mg/kg**	**5.9 mg/kg**	**5000 mg/kg**	**140 mg/kg**	**1.7 mg/kg**	**1200 mg/kg**	**4000 mg/kg**	**230 mg/kg**	**400 mg/kg**	**20 mg/kg**	**360 mg/kg**	**1400 mg/kg**	**360 mg/kg**	**360 mg/kg**	**5.7 mg/kg**	**650 mg/kg**	**22000 mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	**9.6 J**	**5.8**	**1,400.**	**0.27 J**	**19. J**	**97.**	**12.**	**180.**	**3,500.**	**12. J**	**3.9 J**	**82. J**	ND(0.77)	**11. J**	ND(0.77)	**49. J**	**4,100. J**

Checked: SRG

Approved: MJH

mg/kg Milligrams per kilogram
ND(1.5) Not detected at reporting limit indicated in parentheses.
Results outlined in a box indicate detected concentration exceeds the cleanup level.

Table 2-9. Confirmation Sample Analytical Results - TPH

			Analyte	**TPH Diesel (C12-C24)**	**TPH Fuel Oil (C24-C36)**	**TPH Gasoline (C7-C12)**
			Cleanup Level	**115 mg/kg**	**160 mg/kg**	**100 mg/kg**
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual
EXCAVATION 1						
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	**0.16 /J**	**0.85 /J**	ND(0.18) U
	DUP030608	Excavation 1 - Bottom	06-Mar-08	**1.0 /J**	**5.4 /J**	ND(0.22) U
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	**0.20 /J**	**0.90 /J**	ND(0.21) U
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(1.2)	**1.3 /J**	ND(0.2) U
1065EX306	1065EX306[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(1.2)	ND(6.2)	ND(0.22) U
1065EX307	1065EX307[6.0]	Excavation 1 - Sidewall	19-Mar-08	**0.69 /J**	**5.3 /J**	ND(0.2) U
1065EX308	1065EX308[6.0]	Excavation 1 - Sidewall	19-Mar-08	**1.7 /Y**	**5.9**	**4.1 /Y**
1065EX309	1065EX309[6.5]	Excavation 1 - Sidewall	19-Mar-08	**0.57 /J**	ND(6) U	**8.5 /Y**
1065EX310	1065EX310[7.0]	Excavation 1 - Sidewall	19-Mar-08	**0.27 /J**	ND(5.9)	**0.23 /Y**
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	**11. /Y**	**73.**	**0.87 /Y**
	DUP031908	Excavation 1 - Bottom	19-Mar-08	**0.47 /J**	ND(6.3) U	**1.7 /Y**
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	**0.49 /J**	ND(5.9) U	ND(0.21) U
1065EX313	1065EX313[4.5]	Excavation 1 - Sidewall - overexcavated	19-Mar-08	**200. /Y**	**140.**	**2,200. J/Y**
1065EX314	1065EX314[5.5]	Excavation 1 - Sidewall	19-Mar-08	**21. /Y**	**180.**	**0.12 /J**
1065EX315	1065EX315[5.0]	Excavation 1 - Sidewall - resample	26-Mar-08	**0.031 J**	**9.8 Y**	**88.**
EXCAVATION 2						
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	**0.25 /J**	**3.4 /J**	ND(0.22) U
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(1.3)	**1.7 /J**	ND(0.25) U
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**35. /Y**	**360.**	ND(0.21) U
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	**8.1 /Y**	**60.**	ND(0.23) U
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**6.9 /Y**	**36.**	ND(0.21) U
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**4.3 /Y**	**25.**	ND(0.23)
1065EX346	1065EX346[5.0]	Excavation 2 - Sidewall - resample	21-Nov-07	**11. /Y**	**72.**	NT
1065EX347	1065EX347[5.0]	Excavation 2 - Sidewall - resample	21-Nov-07	**8.3 /Y**	**21.**	NT
1065EX348	1065EX348[5.0]	Excavation 2 - Sidewall - resample	21-Nov-07	**23. /Y**	**21.**	NT

Table 2-9. Confirmation Sample Analytical Results - TPH

			Analyte	TPH Diesel (C12-C24)	TPH Fuel Oil (C24-C36)	TPH Gasoline (C7-C12)
			Cleanup Level	115 mg/kg	160 mg/kg	100 mg/kg
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual
EXCAVATION 3						
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	**130. /Y**	**40.**	**1,900. J**
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	**110. /Y**	**53.**	**2,200. J**
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.80 /J**	**6.6**	ND(0.33) U
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	**860. /Y**	**570.**	**1,100. J**
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.76 /JY**	**7.6**	ND(0.23) U
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	**12. /Y**	**44.**	**0.20**
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	**36. /Y**	**33.**	**1,100. J**
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.56 /J**	**4.1 /J**	ND(0.33) U
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	**100. /Y**	**64.**	**7.4 J**
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	**0.54 /J**	**4.1 /J**	ND(1.1) U
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	**24. /Y**	**76.**	ND(0.19) U
1065EX360	1065EX360[4.0]	Excavation 3 -Sidewall - overexcavation	01-Nov-07	**3.0 /Y**	**48.**	ND(0.18) U
	DUP110107	Excavation 3 -Sidewall - overexcavation	01-Nov-07	**15. /Y**	**400.**	ND(0.18) U
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	ND(2.3) U	**8.7**	ND(0.23) U
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	**2.7 /Y**	**14.**	**0.52 /Y**
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(1.2) U	**2.7 /J**	**0.79 /Y**
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(1.2)	ND(6)	ND(0.18)
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	**8.6 /Y**	**21.**	**1.4 J/Y**
1065EX367	1065EX367[4.0]	Excavation 3 - Sidewall - resample	14-Nov-07	**0.81 /J**	**5.6**	ND(1.1) U

Table 2-9. Confirmation Sample Analytical Results - TPH

			Analyte	**TPH Diesel (C12-C24)**	**TPH Fuel Oil (C24-C36)**	**TPH Gasoline (C7-C12)**
			Cleanup Level	**115 mg/kg**	**160 mg/kg**	**100 mg/kg**
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual
FORMER SEWER LINE EXCAVATION						
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**2.5 /Y**	**10.**	**0.093 /J**
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**6.7 /Y**	**21.**	**1.9 /Y**
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**12. /Y**	**73.**	ND(0.27) U/J
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	**13. /Y**	**60.**	ND(0.24) U/J
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	**0.56 /J**	**3.7 /J**	ND(0.23) U/J

mg/kg Milligrams per kilogram
NT Not tested
ND(0.23) Not detected at reporting limit indicated in parentheses.
Results outlined in a box indicate that concentrations exceed cleanup levels.

Checked: SRG

Approved: MJH

Table 2-10. Confirmation Sample Analytical Results - PAHs

			Analyte	2-Methyl naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene
			Cleanup Level	-- mg/kg	2700 mg/kg	-- mg/kg	308 mg/kg	0.43 mg/kg	0.04 mg/kg	0.43 mg/kg	620 mg/kg	0.43 mg/kg
			Human Health Recreational Cleanup Level						0.1 mg/kg(1)			
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
EXCAVATION 1												
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	**0.0035 /J**	ND(0.0059)	ND(0.0059)	ND(0.0059)	**0.0022 /J**	**0.0017 /J**	**0.002 /J**	**0.0018 /J**	ND(0.0059)
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.0062)	ND(0.0062)	ND(0.0062)	**0.0008 /J**	**0.0033 /J**	**0.0027 /J**	**0.0028 /J**	**0.0023 /J**	ND(0.0062)
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)
1065EX306	1065EX306[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)
1065EX307	1065EX307[6.0]	Excavation 1 - Sidewall	19-Mar-08	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	**0.0023 /J**	**0.0021 /J**	**0.0025 /J**	**0.0019 /J**	ND(0.0065)
1065EX308	1065EX308[6.0]	Excavation 1 - Sidewall	19-Mar-08	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)
1065EX309	1065EX309[6.5]	Excavation 1 - Sidewall	19-Mar-08	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)
1065EX310	1065EX310[7.0]	Excavation 1 - Sidewall	19-Mar-08	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	**0.0039 /J**	ND(0.012)	ND(0.012)	ND(0.012)	**0.0032 /J**	**0.005 /J**	**0.0097 /J**	**0.012 /J**	**0.0029 /J**
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)
1065EX313	1065EX313[4.5]	Excavation 1 - Sidewall	19-Mar-08	**0.19**	**0.0054 /J**	**0.0029 /J**	**0.0028 /J**	**0.0072**	**0.0097**	**0.016**	**0.012**	**0.0035 /J**
1065EX314	1065EX314[5.5]	Excavation 1 - Sidewall	19-Mar-08	**0.016**	**0.0029 /J**	**0.0042 /J**	**0.0047 /J**	**0.017**	**0.015**	**0.03**	**0.02**	**0.0065**
EXCAVATION 2												
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	**0.0046 /J**	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)
	DUP111207	Excavation 2 - Bottom	12-Nov-07	**0.001 /J**	ND(0.0064)	ND(0.0064)	ND(0.0064)	ND(0.0064)	ND(0.0064)	ND(0.0064)	ND(0.0064)	ND(0.0064)
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**0.0079 /J**	ND(0.054)	ND(0.054)	**0.022 /J**	**0.071**	**0.074**	**0.077**	**0.044 /J**	**0.038 /J**
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	**0.0063**	**0.00097 /J**	**0.0039 /J**	**0.0045 /J**	**0.013**	**0.014**	**0.02**	**0.012**	**0.005 /J**
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**0.0033 /J**	ND(0.0058)	**0.01**	**0.013**	**0.045**	**0.043**	**0.042**	**0.026**	**0.014**
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**0.0072**	**0.0021 /J**	**0.031**	**0.026**	**0.065**	**0.062**	**0.062**	**0.04**	**0.02**
1065EX346	1065EX346[5.0]	Excavation 2 - Sidewall - resample	21-Nov-07	**0.006 /J**	ND(0.029)	ND(0.029)	ND(0.029)	**0.012 /J**	**0.014 /J**	**0.016 /J**	**0.013 /J**	**0.0074 /J**
1065EX347	1065EX347[5.0]	Excavation 2 - Sidewall - resample	21-Nov-07	**0.0019 /J**	ND(0.0056)	**0.0033 /J**	**0.0037 /J**	**0.013**	**0.014**	**0.013**	**0.0089**	**0.005 /J**
1065EX348	1065EX348[5.0]	Excavation 2 - Sidewall - resample	21-Nov-07	**0.017**	**0.0043 /J**	**0.036**	**0.04**	**0.24**	**0.18**	**0.2**	**0.11**	**0.062**

Table 2-10. Confirmation Sample Analytical Results - PAHs

			Analyte	2-Methyl naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene
			Cleanup Level	-- mg/kg	2700 mg/kg	-- mg/kg	308 mg/kg	0.43 mg/kg	0.04 mg/kg	0.43 mg/kg	620 mg/kg	0.43 mg/kg
			Human Health Recreational Cleanup Level						0.1 mg/kg(1)			
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
EXCAVATION 3												
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.039**	ND(0.031)	ND(0.031)	ND(0.031)	**0.0055 /J**	**0.0063 /J**	**0.0088 /J**	**0.0069 /J**	ND(0.031)
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	**0.045**	ND(0.031)	**0.0059 /J**	ND(0.031)	**0.0065 /J**	**0.0091 /J**	**0.013 /J**	**0.011 /J**	ND(0.031)
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	**2.2**	**0.023 /J**	ND(0.12)	ND(0.12)	ND(0.12)	ND(0.12)	**0.047 /J**	**0.025 /J**	ND(0.12)
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.077**	ND(0.028)	ND(0.028)	ND(0.028)	ND(0.028)	ND(0.028)	**0.0021 /J**	ND(0.028)	ND(0.028)
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.00049 /J**	ND(0.0056)	ND(0.0056)	ND(0.0056)	**0.0011 /J**	ND(0.0056)	**0.0018 /J**	**0.0012 /J**	ND(0.0056)
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.034**	ND(0.029)	ND(0.029)	ND(0.029)	ND(0.029)	ND(0.029)	**0.0047 /J**	**0.0043 /J**	ND(0.029)
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	**0.39**	**0.0079 /J**	**0.0016 /J**	**0.0032 /J**	**0.0021 /J**	**0.0024 /J**	ND(0.012)	**0.0043 /J**	ND(0.012)
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	**0.0052 /J**	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011)	**0.0014 /J**	**0.0014 /J**	ND(0.011)
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.018) U	ND(0.018)	ND(0.018)	ND(0.018)	**0.0045 /J**	**0.0054 /J**	**0.0075 /J**	**0.0046 /J**	**0.0023 /J**
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.029)	ND(0.029)	ND(0.029)	ND(0.029)	**0.007 /J**	**0.0083 /J**	**0.0089 /J**	**0.0064 /J**	**0.0041 /J**
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0062) U	ND(0.0062)	**0.0012 /J**	**0.0015 /J**	**0.0073**	**0.0084**	**0.011**	**0.0062**	**0.0043 /J**
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	**0.0012 /J**	**0.0012 /J**	**0.0018 /J**	**0.0014 /J**	ND(0.0059)
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	**0.001 /J**	ND(0.0059)	ND(0.0059)	ND(0.0059)	**0.0018 /J**	**0.0023 /J**	**0.0028 /J**	**0.0029 /J**	ND(0.0059)
1065EX367	1065EX367[4.0]	Excavation 3 - Sidewall - resample	14-Nov-07	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)
FORMER SEWER LINE EXCAVATION												
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**0.0018 /J**	**0.0011 /J**	ND(0.0061)	ND(0.0061)	**0.002 /J**	**0.0024 /J**	**0.0037 /J**	**0.0026 /J**	ND(0.0061)
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**0.0081**	**0.0022 /J**	**0.00087 /J**	**0.0033 /J**	**0.021**	**0.04**	**0.07**	**0.11**	**0.015**
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**0.0018 /J**	ND(0.0069)	**0.0015 /J**	ND(0.0069)	**0.01**	**0.019**	**0.041**	**0.041**	**0.0096**
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
	Results outlined in a box indicate that concentrations exceed cleanup levels.
(1)	From Table 7-5 of the Presidio-Wide Cleanup Level Document.
ND(0.29)	Not detected at reporting limit indicated in parentheses.

Table 2-10. Confirmation Sample Analytical Results - PAHs

			Analyte	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
			Cleanup Level	4.3 mg/kg	0.078 mg/kg	316 mg/kg	60 mg/kg	0.27 mg/kg	9 mg/kg	86 mg/kg	241 mg/kg
			Human Health Recreational Cleanup Level								
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
EXCAVATION 1											
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	**0.0025 /J**	ND(0.0059)	**0.0036 /J**	ND(0.0059)	**0.0014 J/Jb**	**0.0022 /J**	**0.0035 /J**	**0.0045 /J**
	DUP030608	Excavation 1 - Bottom	06-Mar-08	**0.0036 /J**	ND(0.0062)	**0.0054 /J**	ND(0.0062)	**0.0018 J/Jb**	ND(0.0062)	**0.0039 /J**	**0.0073**
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	**0.00088 /J**	ND(0.0058)	**0.0012 /J**	ND(0.0058)	ND(0.0058)	ND(0.0058)	**0.0013 /J**	**0.0016 /J**
1065EX306	1065EX306[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)
1065EX307	1065EX307[6.0]	Excavation 1 - Sidewall	19-Mar-08	**0.0025 /J**	ND(0.0065)	**0.0036 /J**	ND(0.0065)	**0.0015 /J**	ND(0.0065)	**0.0019 /J**	**0.0053 /J**
1065EX308	1065EX308[6.0]	Excavation 1 - Sidewall	19-Mar-08	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)
1065EX309	1065EX309[6.5]	Excavation 1 - Sidewall	19-Mar-08	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	**0.0012 /J**	**0.0011 /J**
1065EX310	1065EX310[7.0]	Excavation 1 - Sidewall	19-Mar-08	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	**0.0083 /J**	**0.0057 /J**	**0.0031 /J**	ND(0.012)	**0.0059 /J**	ND(0.012)	**0.0027 /J**	**0.0042 /J**
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)	ND(0.0063)
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)
1065EX313	1065EX313[4.5]	Excavation 1 - Sidewall	19-Mar-08	**0.0092**	**0.0037 /J**	**0.012**	**0.012**	**0.01**	**0.12**	**0.021**	**0.014**
1065EX314	1065EX314[5.5]	Excavation 1 - Sidewall	19-Mar-08	**0.024**	**0.0061**	**0.029**	**0.0031 /J**	**0.018**	**0.014**	**0.026**	**0.028**
EXCAVATION 2											
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	**0.0019 /J**	**0.0028 /J**	ND(0.0062)
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(0.0064)	ND(0.0064)	ND(0.0064)	ND(0.0064)	ND(0.0064)	ND(0.0064)	**0.001 /J**	ND(0.0064)
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**0.071**	**0.0083 J/Jb**	**0.14**	ND(0.054)	**0.028 J/Jb**	**0.0083 /J**	**0.15**	**0.22**
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	**0.017**	**0.0029 /J**	**0.023**	**0.0027 /J**	**0.01**	**0.01**	**0.021**	**0.027**
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**0.052**	**0.0071**	**0.074**	**0.005 /J**	**0.021**	**0.0038 /J**	**0.055**	**0.082**
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**0.071**	**0.0096**	**0.13**	**0.019**	**0.032**	**0.0067**	**0.14**	**0.14**
1065EX346	1065EX346[5.0]	Excavation 2 - Sidewall - resample	21-Nov-07	**0.014 /J**	ND(0.029)	**0.023 /J**	ND(0.029)	**0.0078 /J**	ND(0.029)	**0.015 /J**	**0.022 /J**
1065EX347	1065EX347[5.0]	Excavation 2 - Sidewall - resample	21-Nov-07	**0.014**	**0.002 /J**	**0.03**	**0.0014 /J**	**0.0068**	**0.0022 /J**	**0.017**	**0.026**
1065EX348	1065EX348[5.0]	Excavation 2 - Sidewall - resample	21-Nov-07	**0.21**	**0.026**	**0.53**	**0.02**	**0.087**	**0.011**	**0.32**	**0.5**

Table 2-10. Confirmation Sample Analytical Results - PAHs

			Analyte	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
			Cleanup Level	4.3 mg/kg	0.078 mg/kg	316 mg/kg	60 mg/kg	0.27 mg/kg	9 mg/kg	86 mg/kg	241 mg/kg
			Human Health Recreational Cleanup Level								
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
EXCAVATION 3											
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.0077 /J**	ND(0.031)	**0.01 /J**	ND(0.031)	**0.0048 /J**	**0.049**	**0.012 /J**	**0.015 /J**
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	**0.009 /J**	ND(0.031)	**0.011 /J**	ND(0.031)	**0.0076 /J**	**0.062**	**0.011 /J**	**0.016 /J**
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.12)	ND(0.12)	**0.029 /J**	**0.033 /J**	ND(0.12)	**0.25**	**0.071 /J**	**0.058 /J**
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.028)	ND(0.028)	ND(0.028)	ND(0.028)	ND(0.028)	**0.007 /J**	ND(0.028)	ND(0.028)
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.0024 /J**	ND(0.0056)	**0.0021 /J**	ND(0.0056)	**0.00072 /J**	ND(0.0056)	**0.0021 /J**	**0.0024 /J**
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.029)	ND(0.029)	**0.0072 /J**	ND(0.029)	ND(0.029)	**0.14**	**0.0089 /J**	**0.0082 /J**
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	**0.0038 /J**	**0.0012 /J**	**0.0059 /J**	**0.0073 /J**	**0.0024 /J**	**0.17**	**0.019**	**0.0079 /J**
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011)	**0.003 /J**	ND(0.011)	**0.0015 /J**
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0059)
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	**0.006 /J**	**0.0013 /J**	**0.0067 /J**	ND(0.018)	**0.003 /J**	ND(0.018)	**0.0052 /J**	**0.0088 /J**
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	**0.0074 /J**	**0.0019 /J**	**0.0099 /J**	ND(0.029)	**0.0047 /J**	ND(0.029)	**0.0051 /J**	**0.013 /J**
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	**0.0097**	**0.0015 /J**	**0.012**	ND(0.0062)	**0.0048 /J**	ND(0.0062) U	**0.0079**	**0.016**
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	**0.0018 /J**	ND(0.0059)	**0.0032 /J**	ND(0.0059)	ND(0.0059)	ND(0.0059)	**0.0017 /J**	**0.0033 /J**
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	**0.0025 /J**	ND(0.0059)	**0.0054 /J**	ND(0.0059)	**0.0017 /J**	**0.0013 /J**	**0.0025 /J**	**0.0064**
1065EX367	1065EX367[4.0]	Excavation 3 - Sidewall - resample	14-Nov-07	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)
FORMER SEWER LINE EXCAVATION											
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**0.0036 /J**	ND(0.0061)	**0.0049 /J**	ND(0.0061)	**0.0018 /J,b**	ND(0.0053)	**0.0041 /J**	**0.0092**
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**0.022**	**0.022**	**0.012**	**0.0012 /J**	**0.085**	ND(0.0052)	**0.0097**	**0.016**
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**0.016**	**0.0045 /J**	**0.017**	ND(0.0069)	**0.027**	ND(0.0068)	**0.0055 /J**	**0.023**
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0062)	ND(0.0065)	ND(0.0065)
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.0058)	ND(0.006)	ND(0.006)

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
	Results outlined in a box indicate that concentrations exceed cleanup levels.
(1)	From Table 7-5 of the Presidio-Wide Cleanup Level Document.
ND(0.29)	Not detected at reporting limit indicated in parentheses.

Checked: SRG

Approved: MJH

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	Benzene 0.005 mg/kg		Ethylbenzene 13 mg/kg		Toluene 1 mg/kg		Xylenes (m&p-) 33 mg/kg		Xylenes (o-) 33 mg/kg		1,1,1,2-Tetrachloro-ethane -- mg/kg		1,1,1-Trichloro-ethane 8 mg/kg		1,1,2,2-Tetrachloro-ethane 0.0091 mg/kg		1,1,2-Trichloro-ethane 0.032 mg/kg	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EXCAVATION 1																					
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)	
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)	
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)	
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)	
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		**0.0012**	**/J**	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)	
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		**0.00038**	**/J**	**0.0015**	**/J**	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	**0.0005**	**/J**	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
	DUP031908	Excavation 1 - Bottom	19-Mar-08	**0.00029**	**/J**	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)	
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)	
EXCAVATION 2																					
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)	
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)	
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)	
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
EXCAVATION 3																					
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(1.3)		ND(1.3)		ND(1.3)		**0.053**	**J/J**	ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)	
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	ND(2.5)		ND(2.5)		ND(2.5)		**0.12**	**/J**	ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)	
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)	
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)	
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)	
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)	
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)	
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)	
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)	
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	Benzene 0.005 mg/kg		Ethylbenzene 13 mg/kg		Toluene 1 mg/kg		Xylenes (m&p-) 33 mg/kg		Xylenes (o-) 33 mg/kg		1,1,1,2-Tetrachloro-ethane -- mg/kg		1,1,1-Trichloro-ethane 8 mg/kg		1,1,2,2-Tetrachloro-ethane 0.0091 mg/kg		1,1,2-Trichloro-ethane 0.032 mg/kg	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)	
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.0067)	UJ	ND(0.0067)		ND(0.0067)	
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)	UJ	ND(0.0044)		ND(0.0044)	
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	UJ	ND(0.0053)		ND(0.0053)	
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07	ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)	
FORMER SEWER LINE EXCAVATION																					
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)	
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)	

mg/kg	Milligrams per kilograms
	Results outlined in a box indicate that concentrations exceed cleanup levels.
ND(0.29)	Not detected at reporting limit indicated in parentheses.
--	Indicates no cleanup level identified in CAP.

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	**1,1-Dichloroethane 0.2 mg/kg**		**1,1-Dichloroethene -- mg/kg**		**1,1-Dichloropropene -- mg/kg**		**1,2,3-Trichloro-benzene -- mg/kg**		**1,2,3-Trichloro-propane -- mg/kg**		**1,2,4-Trichloro-benzene -- mg/kg**		**1,2,4-Trimethyl-benzene -- mg/kg**		**1,2-Dibromo-3-chloropropane -- mg/kg**		**1,2-Dibromoethane -- mg/kg**	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EXCAVATION 1																					
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)	
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)	
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)	
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)	
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)	U	ND(0.5)		ND(0.5)	
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)	U	ND(0.49)		ND(0.49)	
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)	
EXCAVATION 2																					
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)	
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)	
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)	
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
EXCAVATION 3																					
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)	
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		**0.11**	**/J**	ND(2.5)		ND(2.5)	
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)	
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)	
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)	
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)	
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)	
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)	
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)	
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	

Table 2-11. Confirmation Sample Analytical Results - VOCs

Station Name	Sample Number	Sample Location	Sample Date	Analyte Cleanup Level	1,1-Dichloroethane 0.2 mg/kg	1,1-Dichloroethene -- mg/kg	1,1-Dichloropropene -- mg/kg	1,2,3-Trichloro-benzene -- mg/kg	1,2,3-Trichloro-propane -- mg/kg	1,2,4-Trichloro-benzene -- mg/kg	1,2,4-Trimethyl-benzene -- mg/kg	1,2-Dibromo-3-chloropropane -- mg/kg	1,2-Dibromoethane -- mg/kg
					Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07		ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07		ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.0085) UJ	ND(0.0085)
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07		ND(0.0067)	ND(0.0067)	ND(0.0067)	ND(0.0067)	ND(0.0067)	ND(0.0067)	ND(0.0067)	ND(0.0067)	ND(0.0067)
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07		ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.0044)
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07		ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07		ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0049)
FORMER SEWER LINE EXCAVATION													
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08		ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08		ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08		ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08		ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08		ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)

mg/kg Milligrams per kilograms
Results outlined in a box indicate that concentrations exceed cleanup levels.
ND(0.29) Not detected at reporting limit indicated in parentheses.
-- Indicates no cleanup level identified in CAP.

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	1,2-Dichlorobenzene -- mg/kg		1,2-Dichloroethane 0.0045 mg/kg		1,2-Dichloroethene (cis) 0.19 mg/kg		1,2-Dichloroethene (trans) 0.67 mg/kg		1,2-Dichloropropane 0.052 mg/kg		1,3,5-Trimethyl-benzene -- mg/kg		1,3-Dichlorobenzene -- mg/kg		1,3-Dichloro-propane -- mg/kg		1,3-Dichloropropene (cis) 0.033 mg/kg	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EXCAVATION 1																					
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)	
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)	
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)	
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)	
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.0052)		**0.00042**	**/J**	ND(0.0052)		ND(0.0052)		ND(0.0052)		**0.00065**	**/J**	ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		**0.034**	**/J**	ND(0.5)		ND(0.5)		ND(0.5)	
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		**0.012**	**/J**	ND(0.49)		ND(0.49)		ND(0.49)	
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)	
EXCAVATION 2																					
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)	
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)	
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)	
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
EXCAVATION 3																					
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)	
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)	
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)		ND(3)	
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)	
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)	
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)	
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)	
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)	
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)	
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	1,2-Dichlorobenzene -- mg/kg		1,2-Dichloroethane 0.0045 mg/kg		1,2-Dichloroethene (cis) 0.19 mg/kg		1,2-Dichloroethene (trans) 0.67 mg/kg		1,2-Dichloropropane 0.052 mg/kg		1,3,5-Trimethyl-benzene -- mg/kg		1,3-Dichlorobenzene -- mg/kg		1,3-Dichloro-propane -- mg/kg		1,3-Dichloropropene (cis) 0.033 mg/kg	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)	
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0067)		ND(0.0067)	UJ	ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.0067)	
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0044)		ND(0.0044)	UJ	ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)	
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	ND(0.0053)		ND(0.0053)	UJ	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07	ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)	
FORMER SEWER LINE EXCAVATION																					
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)	
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)	

mg/kg Milligrams per kilograms

Results outlined in a box indicate that concentrations exceed cleanup levels.

ND(0.29) Not detected at reporting limit indicated in parentheses.

-- Indicates no cleanup level identified in CAP.

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	1,3-Dichloropropene (trans) 0.033 mg/kg		1,4-Dichloro-benzene -- mg/kg		2,2-Dichloro-propane -- mg/kg		2-Butanone 3.9 mg/kg		2-Chlorotoluene -- mg/kg		2-Hexanone 2.8 mg/kg		4-Chlorotoluene - mg/kg		4-Methyl-2-pentanone 2.7 mg/kg		Acetone 0.24 mg/kg	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EXCAVATION 1																					
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0084)		ND(0.0042)		ND(0.0084)		ND(0.0042)		ND(0.0084)		ND(0.017)	
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.011)		**0.0042 /Jb**	
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0085)		ND(0.0043)		ND(0.0085)		ND(0.0043)		ND(0.0085)		**0.0077 J/Jb**	
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		**0.0013 /Jb**		ND(0.0042)		ND(0.0084)		ND(0.0042)		ND(0.0084)		ND(0.017)	U
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0096)		ND(0.0048)		ND(0.0096)		ND(0.0048)		ND(0.0096)		ND(0.019)	U
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		**0.0017 /J**		ND(0.005)		ND(0.01)		ND(0.005)		ND(0.01)		**0.0073 /J**	
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		**0.004 /J**		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.01)		**0.02 /J**	
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.5)		ND(0.5)		ND(0.5)		ND(0.99)		ND(0.5)		ND(0.99)		ND(0.5)		ND(0.99)		ND(2)	U
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		**0.015**		ND(0.005)		ND(0.0099)		ND(0.005)		ND(0.0099)		ND(0.6)	U
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		**0.0062 /J**		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.011)		**0.052**	
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		**0.0059 /J**		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.01)		**0.052**	
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		**0.012**		ND(0.005)		ND(0.0099)		ND(0.005)		ND(0.0099)		ND(0.6)	U
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.49)		ND(0.49)		ND(0.49)		ND(0.98)		ND(0.49)		ND(0.98)		ND(0.49)		ND(0.98)		ND(2)	U
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		**0.011**		ND(0.0048)		ND(0.0097)		ND(0.0048)		ND(0.0097)		**0.056**	
EXCAVATION 2																					
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.011)		ND(0.0054)		ND(0.011)		ND(0.0054)		ND(0.011)		ND(0.022)	U
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		**0.0012 /J**		ND(0.0055)		ND(0.011)		ND(0.0055)		ND(0.011)		ND(0.022)	U
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.011)		ND(0.021)	U
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	ND(0.0085)		ND(0.0085)		ND(0.0085)		**0.0039 /J**		ND(0.0085)		ND(0.017)		ND(0.0085)		ND(0.017)		ND(0.021)	U
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		**0.0037 /J**		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.01)		ND(0.021)	U
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		**0.0027 /J**		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.01)		ND(0.021)	U
EXCAVATION 3																					
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(1.3)		ND(1.3)		ND(1.3)		ND(2.5)		ND(1.3)		ND(2.5)		ND(1.3)		ND(2.5)		ND(5)	
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	ND(2.5)		ND(2.5)		ND(2.5)		ND(5.1)		ND(2.5)		ND(5.1)		ND(2.5)		ND(5.1)		ND(10)	U
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0094)		ND(0.0047)		ND(0.0094)		ND(0.0047)		ND(0.0094)		ND(0.019)	U
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(3)		ND(3)		ND(3)		ND(6)		ND(3)		ND(6)		ND(3)		ND(6)		ND(12)	
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.016)		ND(0.0082)		ND(0.016)		ND(0.0082)		ND(0.016)		ND(0.033)	U
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.011)		ND(0.0055)		ND(0.011)		ND(0.0055)		ND(0.011)		ND(0.022)	U
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.15)		ND(0.15)		ND(0.15)		ND(0.29)		ND(0.15)		ND(0.29)		ND(0.15)		ND(0.29)		ND(0.58)	U
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.016)		ND(0.0081)		ND(0.016)		ND(0.0081)		ND(0.016)		ND(0.033)	
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(1.5)		ND(1.5)		ND(1.5)		ND(3)		ND(1.5)		ND(3)		ND(1.5)		ND(3)		ND(6)	U
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.011)		ND(0.0054)		ND(0.011)		ND(0.0054)		ND(0.011)		ND(0.022)	U
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		**0.0019 /J**		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.01)		ND(0.021)	U
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0093)		ND(0.0047)		ND(0.0093)		ND(0.0047)		ND(0.0093)		ND(0.019)	U
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0095)		ND(0.0047)		ND(0.0095)		ND(0.0047)		ND(0.0095)		ND(0.019)	U

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	1,3-Dichloropropene (trans) 0.033 mg/kg	1,4-Dichloro-benzene -- mg/kg	2,2-Dichloro-propane -- mg/kg	2-Butanone 3.9 mg/kg	2-Chlorotoluene -- mg/kg	2-Hexanone 2.8 mg/kg	4-Chlorotoluene - mg/kg	4-Methyl-2-pentanone 2.7 mg/kg	Acetone 0.24 mg/kg
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.012)	ND(0.0062)	ND(0.012)	ND(0.0062)	ND(0.012)	ND(0.025) U
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.017)	ND(0.0085)	ND(0.017)	ND(0.0085)	ND(0.017)	**0.0051 /J**
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0067)	ND(0.0067)	ND(0.0067)	**0.0022 /J**	ND(0.0067)	ND(0.013)	ND(0.0067)	ND(0.013)	ND(0.027) U
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0044)	ND(0.0044)	ND(0.0044)	**0.00055 /J**	ND(0.0044)	ND(0.0087)	ND(0.0044)	ND(0.0087)	ND(0.017) U
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	ND(0.0053)	ND(0.0053)	ND(0.0053)	**0.00076 /J**	ND(0.0053)	ND(0.011)	ND(0.0053)	ND(0.011)	ND(0.021) U
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0098)	ND(0.0049)	ND(0.0098)	ND(0.0049)	ND(0.0098)	**0.001 /J**
FORMER SEWER LINE EXCAVATION												
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0053)	ND(0.0053)	ND(0.0053)	**0.0027 /J**	ND(0.0053)	ND(0.011)	ND(0.0053)	ND(0.011)	**0.013 /J**
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0052)	ND(0.0052)	ND(0.0052)	**0.0022 /J**	ND(0.0052)	ND(0.01)	ND(0.0052)	ND(0.01)	**0.0078 /J**
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0068)	ND(0.0068)	ND(0.0068)	**0.0014 /J**	ND(0.0068)	ND(0.014)	ND(0.0068)	ND(0.014)	**0.0053 /J**
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0062)	ND(0.0062)	ND(0.0062)	**0.0012 /J**	ND(0.0062)	ND(0.012)	ND(0.0062)	ND(0.012)	**0.0046 /J**
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	ND(0.0058)	ND(0.0058)	ND(0.0058)	**0.0014 /J**	ND(0.0058)	ND(0.012)	ND(0.0058)	ND(0.012)	**0.0055 /J**

mg/kg	Milligrams per kilograms
	Results outlined in a box indicate that concentrations exceed cleanup levels.
ND(0.29)	Not detected at reporting limit indicated in parentheses.
--	Indicates no cleanup level identified in CAP.

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	Bromobenzene -- mg/kg		Bromochloro-methane -- mg/kg		Bromodichloro-methane 0.014 mg/kg		Bromoform 2.2 mg/kg		Bromomethane 0.22 mg/kg		Carbon disulfide 200 mg/kg		Carbon tetrachloride 0.012 mg/kg		Chlorobenzene 1.5 mg/kg		Chloroethane 0.63 mg/kg	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EXCAVATION 1																					
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0084)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0084)	
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)	
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0085)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0085)	
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0084)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0084)	
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0096)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0096)	
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.01)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.01)	
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)	
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.99)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.99)	
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.0099)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.0099)	
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)	
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)	
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.0099)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.0099)	
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.49)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.98)		ND(0.49)		ND(0.49)		ND(0.49)		ND(0.98)	
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0097)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0097)	
EXCAVATION 2																					
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.011)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.011)	
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.011)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.011)	
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)	
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.017)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.017)	
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)	
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)	
EXCAVATION 3																					
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(1.3)		ND(1.3)		ND(1.3)		ND(1.3)		ND(2.5)		ND(1.3)		ND(1.3)		ND(1.3)		ND(2.5)	
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	ND(2.5)		ND(2.5)		ND(2.5)		ND(2.5)		ND(5.1)		ND(2.5)		ND(2.5)		ND(2.5)		ND(5.1)	
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0094)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0094)	
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(3)		ND(3)		ND(3)		ND(3)		ND(6)		ND(3)		ND(3)		ND(3)		ND(6)	
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.016)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.016)	
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.011)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.011)	
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.15)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.29)		ND(0.15)		ND(0.15)		ND(0.15)		ND(0.29)	
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.016)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.016)	
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(1.5)		ND(1.5)		ND(1.5)		ND(1.5)		ND(3)		ND(1.5)		ND(1.5)		ND(1.5)		ND(3)	
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.011)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.011)	
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)	
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0093)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0093)	
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0095)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0095)	

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	Bromobenzene -- mg/kg		Bromochloro-methane -- mg/kg		Bromodichloro-methane 0.014 mg/kg		Bromoform 2.2 mg/kg		Bromomethane 0.22 mg/kg		Carbon disulfide 200 mg/kg		Carbon tetrachloride 0.012 mg/kg		Chlorobenzene 1.5 mg/kg		Chloroethane 0.63 mg/kg	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.012)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.012)	
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.017)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.017)	
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.0067)		ND(0.013)		ND(0.0067)		ND(0.0067)	UJ	ND(0.0067)		ND(0.013)	
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0087)		ND(0.0044)		ND(0.0044)	UJ	ND(0.0044)		ND(0.0087)	
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)	UJ	ND(0.0053)		ND(0.011)	
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07	ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0098)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0098)	
FORMER SEWER LINE EXCAVATION																					
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.011)	
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.01)	
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.014)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.014)	
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.012)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.012)	
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.012)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.012)	

mg/kg	Milligrams per kilograms
	Results outlined in a box indicate that concentrations exceed cleanup levels.
ND(0.29)	Not detected at reporting limit indicated in parentheses.
--	Indicates no cleanup level identified in CAP.

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	Chloroform 0.098 mg/kg		Chloromethane 0.29 mg/kg		Dibromochloro-methane 0.019 mg/kg		Dibromo-methane -- mg/kg		Dichlorodifluoro-methane -- mg/kg		Freon 113 -- mg/kg		Hexachloro-butadiene -- mg/kg		Isopropyl-benzene -- mg/kg	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EXCAVATION 1																			
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	ND(0.0042)		ND(0.0084)		ND(0.0042)		ND(0.0042)		ND(0.0084)		ND(0.0042)		ND(0.0042)		ND(0.0042)	
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.0043)		ND(0.0085)		ND(0.0043)		ND(0.0043)		ND(0.0085)		ND(0.0043)		ND(0.0043)		ND(0.0043)	
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.0042)		ND(0.0084)		ND(0.0042)		ND(0.0042)		ND(0.0084)	UJ	ND(0.0042)		ND(0.0042)		ND(0.0042)	
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	ND(0.0048)		ND(0.0096)		ND(0.0048)		ND(0.0048)		ND(0.0096)	UJ	ND(0.0048)		ND(0.0048)		ND(0.0048)	
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	**0.00037**	**/J**	ND(0.01)		ND(0.005)		ND(0.005)		ND(0.01)		ND(0.005)	UJ	ND(0.005)		ND(0.005)	
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)	UJ	ND(0.0052)		**0.0051**	**/J**
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.5)		ND(0.99)		ND(0.5)		ND(0.5)		ND(0.99)	UJ	ND(0.5)		ND(0.5)	UJ	**0.026**	**/J**
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)		ND(0.0099)		ND(0.005)		ND(0.005)		ND(0.0099)		ND(0.005)	UJ	ND(0.005)		**0.0038**	**/J**
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)	UJ	ND(0.0053)		**0.0015**	**/J**
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)	UJ	ND(0.0052)		**0.00094**	**/J**
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.005)		ND(0.0099)		ND(0.005)		ND(0.005)		ND(0.0099)		ND(0.005)	UJ	ND(0.005)		ND(0.005)	
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.49)		ND(0.98)		ND(0.49)		ND(0.49)		ND(0.98)	UJ	ND(0.49)		ND(0.49)	UJ	**0.061**	**/J**
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.0048)		ND(0.0097)		ND(0.0048)		ND(0.0048)		ND(0.0097)	UJ	ND(0.0048)		ND(0.0048)	UJ	ND(0.0048)	
EXCAVATION 2																			
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	ND(0.0054)		ND(0.011)		ND(0.0054)		ND(0.0054)		ND(0.011)		ND(0.0054)	UJ	ND(0.0054)		ND(0.0054)	
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(0.0055)		ND(0.011)		ND(0.0055)		ND(0.0055)		ND(0.011)		ND(0.0055)	UJ	ND(0.0055)		ND(0.0055)	
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)	UJ	ND(0.0053)		ND(0.0053)	
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	ND(0.0085)		ND(0.017)		ND(0.0085)		ND(0.0085)		ND(0.017)		ND(0.0085)		ND(0.0085)		ND(0.0085)	
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)	UJ	ND(0.0052)		ND(0.0052)	
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)	UJ	ND(0.0052)		ND(0.0052)	
EXCAVATION 3																			
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(1.3)		ND(2.5)		ND(1.3)		ND(1.3)		ND(2.5)		ND(1.3)		ND(1.3)		**0.14**	**J/J**
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	ND(2.5)		ND(5.1)		ND(2.5)		ND(2.5)		ND(5.1)		ND(2.5)		ND(2.5)		**0.5**	**/J**
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0047)		ND(0.0094)		ND(0.0047)		ND(0.0047)		ND(0.0094)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(3)		ND(6)		ND(3)		ND(3)		ND(6)		ND(3)		ND(3)		**3.7**	**J**
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0082)		ND(0.016)		ND(0.0082)		ND(0.0082)		ND(0.016)		ND(0.0082)		ND(0.0082)		ND(0.0082)	
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0055)		ND(0.011)		ND(0.0055)		ND(0.0055)		ND(0.011)		ND(0.0055)		ND(0.0055)		ND(0.0055)	
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.15)		ND(0.29)		ND(0.15)		ND(0.15)		ND(0.29)		ND(0.15)		ND(0.15)		**0.031**	**J/J**
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0081)		ND(0.016)		ND(0.0081)		ND(0.0081)		ND(0.016)		ND(0.0081)		ND(0.0081)		ND(0.0081)	
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(1.5)		ND(3)		ND(1.5)		ND(1.5)		ND(3)		ND(1.5)		ND(1.5)		**0.82**	**J/Jb**
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.0054)		ND(0.011)		ND(0.0054)		ND(0.0054)		ND(0.011)		ND(0.0054)		ND(0.0054)		ND(0.0054)	
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0093)		ND(0.0047)		ND(0.0047)		ND(0.0093)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)		ND(0.0095)		ND(0.0047)		ND(0.0047)		ND(0.0095)		ND(0.0047)		ND(0.0047)		ND(0.0047)	

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	**Chloroform 0.098 mg/kg**		**Chloromethane 0.29 mg/kg**		**Dibromochloro-methane 0.019 mg/kg**		**Dibromo-methane -- mg/kg**		**Dichlorodifluoro-methane -- mg/kg**		**Freon 113 -- mg/kg**		**Hexachloro-butadiene -- mg/kg**		**Isopropyl-benzene -- mg/kg**	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0062)		ND(0.012)		ND(0.0062)		ND(0.0062)		ND(0.012)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	ND(0.0085)		ND(0.017)		ND(0.0085)		ND(0.0085)		ND(0.017)		ND(0.0085)		ND(0.0085)		ND(0.0085)	
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0067)		ND(0.013)		ND(0.0067)	UJ	ND(0.0067)		ND(0.013)		ND(0.0067)		ND(0.0067)		**0.0025**	**/J**
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0044)		ND(0.0087)		ND(0.0044)	UJ	ND(0.0044)		ND(0.0087)		ND(0.0044)		ND(0.0044)		ND(0.0044)	
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	ND(0.0053)		ND(0.011)		ND(0.0053)	UJ	ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07	ND(0.0049)		ND(0.0098)		ND(0.0049)		ND(0.0049)		ND(0.0098)		ND(0.0049)		ND(0.0049)		ND(0.0049)	
FORMER SEWER LINE EXCAVATION																			
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.011)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.01)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0068)		ND(0.014)		ND(0.0068)		ND(0.0068)		ND(0.014)		ND(0.0068)		ND(0.0068)		ND(0.0068)	
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0062)		ND(0.012)		ND(0.0062)		ND(0.0062)		ND(0.012)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	ND(0.0058)		ND(0.012)		ND(0.0058)		ND(0.0058)		ND(0.012)		ND(0.0058)		ND(0.0058)		ND(0.0058)	

mg/kg Milligrams per kilograms

Results outlined in a box indicate that concentrations exceed cleanup levels.

ND(0.29) Not detected at reporting limit indicated in parentheses.

-- Indicates no cleanup level identified in CAP.

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	Methylene chloride 0.076 mg/kg		Methyl-tert-butyl ether 0.023 mg/kg		Naphthalene 9 mg/kg		n-Butylbenzene -- mg/kg		n-Propylbenzene -- mg/kg		p-Isopropyltoluene -- mg/kg		sec-Butylbenzene -- mg/kg		Styrene 1.5 mg/kg	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EXCAVATION 1																			
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	ND(0.017)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)	
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.021)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.017)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)		ND(0.0043)	
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.017)	U	ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)		ND(0.0042)	
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	ND(0.019)	U	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)	
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.02)	U	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.021)	U	ND(0.0052)		**0.0027**	**/J**	**0.0085**		**0.0075**		**0.0023**	**/J**	**0.0044**	**/J**	ND(0.0052)	
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	ND(2)	U	ND(0.5)		ND(0.5)	U	ND(0.5)	U	**0.067**	**/J**	ND(0.5)	U	ND(0.5)	U	ND(0.5)	
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.02)	U	ND(0.005)		ND(0.005)		ND(0.15)		**0.0056**		**0.00068**	**/J**	**0.0014**	**/J**	ND(0.005)	
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	ND(0.021)		ND(0.0053)		ND(0.0053)	U	ND(0.0053)		**0.0012**	**/J**	ND(0.0053)		ND(0.0053)		ND(0.0053)	
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.021)	U	ND(0.0052)		ND(0.0052)		ND(0.0052)		**0.0007**	**/J**	ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.02)	U	ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	ND(2)	U	ND(0.49)		ND(0.49)	U	ND(0.49)	U	**0.13**	**/J**	ND(0.49)	U	ND(0.49)	U	ND(0.49)	
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.019)	U	ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)		ND(0.0048)	
EXCAVATION 2																			
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	ND(0.022)	U	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)	
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(0.022)	U	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)	
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.021)	U	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	ND(0.034)	U	ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)	
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.021)	U	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.021)	U	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
EXCAVATION 3																			
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(5)	U	ND(1.3)		ND(1.3)		**0.44**	**J/J**	**0.29**	**J/J**	**0.35**	**J/J**	**0.27**	**J/J**	ND(1.3)	
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	ND(10)	U	ND(2.5)		ND(2.5)		**1.4**	**/J**	**1.1**	**/J**	**1.3**	**/J**	**0.78**	**/J**	ND(2.5)	
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.019)	U	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(12)	U	ND(3)		ND(3)		**4.1**	**J**	**5.5**	**J**	**2.3**	**J/J**	**2**	**J/J**	ND(3)	
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.033)	U	ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)		ND(0.0082)	
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.022)	U	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)	
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.58)	U	ND(0.15)		ND(0.15)		**0.098**	**J/J**	**0.051**	**J/J**	**0.018**	**J/J**	**0.067**	**J/J**	ND(0.15)	
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.033)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)		ND(0.0081)	
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(6)	U	ND(1.5)		ND(1.5)		**1.1**	**J/J**	**1.2**	**J/Jb**	**0.53**	**J/J**	**0.78**	**J/J**	ND(1.5)	
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.022)	U	ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)		ND(0.0054)	
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.021)		ND(0.0052)		ND(0.0052)	UJ	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.019)		ND(0.0047)		ND(0.0047)	UJ	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.019)		ND(0.0047)		ND(0.0047)	UJ	ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)		ND(0.0047)	

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	**Methylene chloride 0.076 mg/kg**		**Methyl-tert-butyl ether 0.023 mg/kg**		**Naphthalene 9 mg/kg**		**n-Butylbenzene -- mg/kg**		**n-Propylbenzene -- mg/kg**		**p-Isopropyltoluene -- mg/kg**		**sec-Butylbenzene -- mg/kg**		**Styrene 1.5 mg/kg**	
Station Name	Sample Number	Sample Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	ND(0.025)		ND(0.0062)		ND(0.0062)	UJ	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	ND(0.034)	U	ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)		ND(0.0085)	
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.027)	U	ND(0.0067)		ND(0.0067)		**0.0026**	**/J**	**0.0046**	**/J**	**0.0027**	**/J**	**0.0017**	**/J**	ND(0.0067)	
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.017)	U	ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)	
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	ND(0.021)	U	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07	ND(0.02)	U	ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)	
FORMER SEWER LINE EXCAVATION																			
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.021)	U/J	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.021)	U/J	ND(0.0052)		ND(0.0052)		**0.00088**	**/J**	ND(0.0052)		ND(0.0052)		**0.00049**	**/J**	ND(0.0052)	
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.027)	U/J	ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)	
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.025)	U/J	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	ND(0.023)	U/J,b	ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)	

mg/kg Milligrams per kilograms

Results outlined in a box indicate that concentrations exceed cleanup levels.

ND(0.29) Not detected at reporting limit indicated in parentheses.

-- Indicates no cleanup level identified in CAP.

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	tert-Butylbenzene -- mg/kg	Tetrachloro-ethene 0.087 mg/kg	Trichloroethene 0.26 mg/kg	Trichlorofluoro-methane -- mg/kg	Vinyl acetate 430 mg/kg	Vinyl chloride 0.0067 mg/kg
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
EXCAVATION 1									
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	ND(0.0042)	ND(0.0042)	ND(0.0042)	ND(0.0042)	ND(0.042)	ND(0.0084)
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.053)	ND(0.011)
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.0043)	ND(0.0043)	ND(0.0043)	ND(0.0043)	ND(0.043)	ND(0.0085)
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	ND(0.0042)	ND(0.0042)	ND(0.0042)	ND(0.0042)	ND(0.042)	ND(0.0084)
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.048)	ND(0.0096)
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.05)	ND(0.01)
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.052)	ND(0.01)
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(5)	ND(0.99)
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.05)	ND(0.0099)
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.053)	ND(0.011)
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.052)	ND(0.01)
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.05)	ND(0.0099)
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.49)	ND(0.49)	ND(0.49)	ND(0.49)	ND(4.9)	ND(0.98)
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.048)	ND(0.0097)
EXCAVATION 2									
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.054)	ND(0.011)
	DUP111207	Excavation 2 - Bottom	12-Nov-07	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.055)	ND(0.011)
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.053)	ND(0.011)
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.085)	ND(0.017)
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.052)	ND(0.01)
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.052)	ND(0.01)
EXCAVATION 3									
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3) UJ	ND(13)	ND(2.5)
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(25)	ND(5.1)
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.047)	ND(0.0094)
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(3)	ND(3)	ND(3)	ND(3) UJ	ND(30)	ND(6)
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0082)	ND(0.0082)	ND(0.0082)	ND(0.0082)	ND(0.082)	ND(0.016)
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.055)	ND(0.011)
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.15)	ND(0.15)	ND(0.15)	ND(0.15) UJ	ND(1.5)	ND(0.29)
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.0081)	ND(0.0081)	ND(0.0081)	ND(0.0081)	ND(0.081)	ND(0.016)
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(15)	ND(3)
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0054) UJ	ND(0.054)	ND(0.011)
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.052)	ND(0.01)
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.047)	ND(0.0093)
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.047)	ND(0.0095)

Table 2-11. Confirmation Sample Analytical Results - VOCs

			Analyte Cleanup Level	tert-Butylbenzene -- mg/kg	Tetrachloro-ethene 0.087 mg/kg	Trichloroethene 0.26 mg/kg	Trichlorofluoro-methane -- mg/kg	Vinyl acetate 430 mg/kg	Vinyl chloride 0.0067 mg/kg
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.062)	ND(0.012)
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.0085)	ND(0.085)	ND(0.017)
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0067)	ND(0.0067) UJ	ND(0.0067)	ND(0.0067) UJ	ND(0.067)	ND(0.013)
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	ND(0.0044)	ND(0.0044) UJ	ND(0.0044)	ND(0.0044) UJ	ND(0.044)	ND(0.0087)
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	ND(0.0053)	ND(0.0053) UJ	ND(0.0053)	ND(0.0053) UJ	ND(0.053)	ND(0.011)
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.049)	ND(0.0098)
FORMER SEWER LINE EXCAVATION									
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.053)	ND(0.011)
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.052)	ND(0.01)
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.068)	ND(0.014)
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.062)	ND(0.012)
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.058)	ND(0.012)

mg/kg Milligrams per kilograms

Results outlined in a box indicate that concentrations exceed cleanup levels.

ND(0.29) Not detected at reporting limit indicated in parentheses.

-- Indicates no cleanup level identified in CAP.

Checked: SRG

Approved: MJH

Table 2-12. Confirmation Sample Analytical Results - Metals

			Analyte	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**
			Cleanup Level	**29 mg/kg**	**5.9 mg/kg**	**5000 mg/kg**	**140 mg/kg**	**1.7 mg/kg**	**1200 mg/kg**	**4000 mg/kg**	**230 mg/kg**
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
EXCAVATION 1											
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	ND(0.6) UJ	**3.7**	**82.**	**0.41**	ND(0.3)	**64.**	**11.**	**13. J**
	DUP030608	Excavation 1 - Bottom	06-Mar-08	ND(0.63) UJ	**4.4**	**100.**	**0.48**	ND(0.31)	**67.**	**11.**	**11. J**
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	ND(0.59) UJ	**4.0**	**85.**	**0.37**	ND(0.29)	**65.**	**11.**	**7.9 J**
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	**0.12 /J**	**2.9**	**84.**	**0.27**	**0.043 /J**	**79.**	**12.**	**7.4**
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	ND(0.63)	**3.8**	**90.**	**0.40**	ND(0.31) U	**64.**	**11.**	**10.**
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	**0.89 J**	**1.5**	**88. J**	**0.24**	ND(0.32) U	**80.**	**11.**	**24. J**
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.66) UJ	**0.75**	**72. J**	**0.27**	ND(0.29) U	**82.**	**10.**	**10. J**
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	**0.44 J/J**	**0.76**	**45. J**	**0.17**	ND(0.3) U	**79.**	**7.6**	**6.7 J**
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	ND(0.6) UJ	ND(0.31)	**40. J**	**0.20**	ND(0.3) U	**62.**	**7.9**	**6.1 J**
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	ND(0.63) UJ	**2.1**	**74. J**	**0.21**	ND(0.32) U	**77.**	**7.4**	**12. J**
	DUP031908	Excavation 1 - Bottom	19-Mar-08	ND(0.63) UJ	**0.76**	**74. J**	**0.24**	ND(0.32) U	**110.**	**9.6**	**7.6 J**
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	ND(0.6) UJ	**1.7**	**51. J**	**0.20**	ND(0.3) U	**100.**	**8.8**	**7.5 J**
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.59) UJ	**1.1**	**72. J**	**0.19**	ND(0.31) U	**76.**	**7.6**	**19. J**
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	ND(0.61) UJ	**3.9**	**81. J**	**0.20**	**0.77**	**70.**	**9.5**	**30. J**
EXCAVATION 2											
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	**0.47 J-/J**	**3.1**	**110. J**	**0.42**	ND(0.3)	**59.**	**12.**	**32. J**
	DUP111207	Excavation 2 - Bottom	12-Nov-07	**0.30 J-/J**	**2.9**	**89. J**	**0.33**	ND(0.32)	**79.**	**13.**	**27. J**
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**2.2 J-**	**2.7**	**74. J**	**0.22**	ND(0.27)	**50.**	**7.8**	**21. J**
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	**2.3 J-**	**2.0**	**120. J**	**0.25**	ND(0.28)	**93.**	**14.**	**44. J**
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**0.15 J-/J**	**0.36**	**20. J**	**0.14**	ND(0.29)	**29.**	**7.9**	**11. J**
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**1.2 J-/J**	**2.1**	**680. J**	**0.20**	**0.022 /J**	**38.**	**9.5**	**28. J**

Table 2-12. Confirmation Sample Analytical Results - Metals

			Analyte	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**
			Cleanup Level	**29 mg/kg**	**5.9 mg/kg**	**5000 mg/kg**	**140 mg/kg**	**1.7 mg/kg**	**1200 mg/kg**	**4000 mg/kg**	**230 mg/kg**
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
EXCAVATION 3											
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.40 J/J**	**3.4**	**200. J**	**0.31 J**	**0.31 /J**	**57. J**	**8.0 J**	**37. J**
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	**0.78 J**	**4.9**	**760. J**	**0.39 J**	**0.34**	**63. J**	**10. J**	**51. J**
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.28 J/J**	**1.1**	**57. J**	**0.22 J**	**0.23 /J**	**7.8 J**	**17. J**	**40. J**
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.55 J/J**	**3.3**	**130. J**	**0.29 J**	**0.23 /J**	**61. J**	**11. J**	**26. J**
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.56) UJ	ND(0.32)	**32. J**	**0.27 J**	**0.18 /J**	**8.1 J**	**17. J**	**38. J**
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.30 J/J**	**2.3**	**37. J**	**0.18 J**	**0.16 /J**	**69. J**	**7.9 J**	**9.0 J**
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.19 J/J**	**1.0**	**38. J**	**0.14 J**	**0.068 /J**	**58. J**	**6.5 J**	**13. J**
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	**0.22 J/J**	ND(0.29)	**16. J**	**0.13 J**	**0.13 /J**	**4.1 J**	**11. J**	**24. J**
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	**2.8 J**	**3.2**	**87.**	**0.24 J**	ND(0.3)	**90.**	**16.**	**33. J**
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	**7.4 J**	ND(2) U	**38.**	**0.16 J**	**0.02 /J**	**6.4**	**18.**	**33. J**
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	**2.5 J**	**2.3**	**76.**	**0.16 J**	**0.024 /J**	**55.**	**7.1**	**25. J**
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	**5.7 J**	**5.5**	**74.**	**0.28 J**	ND(0.3)	**31.**	**13.**	**56. J**
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	**3.9 J**	**4.6**	**80.**	**0.25 J**	**0.0032 /J**	**29.**	**9.9**	**79. J**
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	**2.9 J**	**3.2**	**82.**	**0.27 J**	ND(0.31)	**60.**	**8.8**	**31. J**
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	**0.093 /J**	**2.0**	**51.**	**0.16 /J**	**0.067 /J**	**68.**	**7.3**	**19.**
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	**5.2 J**	**4.9**	**110.**	**0.42**	ND(0.31)	**69.**	**12.**	**15. J**
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	**3.1 J**	**4.0**	**55.**	**0.20**	ND(0.3)	**100.**	**8.2**	**10. J**
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	**3.5 J**	**3.0**	**51.**	**0.19**	ND(0.3)	**63.**	**11.**	**11. J**
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07	**2.8**	ND(0.29)	**43.**	**0.19**	**0.22 /J**	**6.6**	**21.**	**49.**
FORMER SEWER LINE EXCAVATION											
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.61)	**2.8**	**42.**	**0.15**	**0.56**	**54.**	**7.1**	**6.1**
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.6)	**2.6**	**43.**	**0.17**	**0.55**	**50.**	**6.4**	**13.**
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.69)	**2.2**	**71.**	**0.26**	**1.4**	**95.**	**8.4**	**12.**
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	ND(0.65)	**3.0**	**74.**	**0.24**	**1.4**	**92.**	**8.4**	**11.**
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	**1.7**	**2.1**	**64.**	**0.25**	ND(0.3)	**91.**	**12.**	**4.2**

mg/kg Milligrams per kilograms

Results outlined in a box indicate that concentrations exceed cleanup levels.

ND(0.29) Not detected at reporting limit indicated in parentheses.

Table 2-12. Confirmation Sample Analytical Results - Metals

			Analyte	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			Cleanup Level	400 mg/kg	20 mg/kg	360 mg/kg	1400 mg/kg	360 mg/kg	360 mg/kg	5.7 mg/kg	650 mg/kg	22000 mg/kg
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
EXCAVATION 1												
1065EX303	1065EX303[7.0]	Excavation 1 - Bottom	06-Mar-08	**18. J**	**0.038**	ND(0.3)	**39.**	**1.8**	ND(0.3)	ND(0.6)	**54.**	**43. J**
	DUP030608	Excavation 1 - Bottom	06-Mar-08	**7.2 J**	**0.07**	ND(0.31)	**40.**	**0.62 /J**	ND(0.31)	ND(0.63)	**62.**	**37. J**
1065EX304	1065EX304[7.5]	Excavation 1 - Bottom	06-Mar-08	**6.0 J**	**0.041**	ND(0.29)	**36.**	**1.2**	**0.083 /J**	ND(0.59)	**52.**	**29. J**
1065EX305	1065EX305[6.0]	Excavation 1 - Sidewall	06-Mar-08	**37.**	**0.025**	ND(0.29)	**58.**	**0.96**	**0.066 /J**	ND(0.59)	**50.**	**41.**
1065EX306	1065EX306[6.0]	Excavation 1- Sidewall	06-Mar-08	**8.3**	**0.038**	ND(0.31)	**38.**	ND(0.63)	**0.067 /J**	ND(0.63)	**53.**	**33.**
1065EX307	1065EX307[6.0]	Excavation 1- Sidewall	19-Mar-08	**21. J**	**0.029**	ND(0.32)	**59.**	ND(0.64)	ND(0.32)	ND(0.64)	**49.**	**77. J**
1065EX308	1065EX308[6.0]	Excavation 1- Sidewall	19-Mar-08	**17. J**	**0.009 /J**	ND(0.29)	**51.**	ND(0.59)	ND(0.29)	ND(0.59)	**53.**	**29. J**
1065EX309	1065EX309[6.5]	Excavation 1- Sidewall	19-Mar-08	**1.4 J**	ND(0.024)	ND(0.3)	**50.**	ND(0.6)	ND(0.3)	ND(0.6)	**43.**	**24. J**
1065EX310	1065EX310[7.0]	Excavation 1- Sidewall	19-Mar-08	**1.1 J**	ND(0.025)	ND(0.3)	**47.**	ND(0.6)	ND(0.3)	ND(0.6)	**38.**	**23. J**
1065EX311	1065EX311[8.5]	Excavation 1 - Bottom	19-Mar-08	**260. J**	**0.094**	ND(0.32)	**47.**	ND(0.63)	ND(0.32)	ND(0.63)	**44.**	**210. J**
	DUP031908	Excavation 1 - Bottom	19-Mar-08	**8.1 J**	**0.011 /J**	ND(0.32)	**70.**	ND(0.63)	ND(0.32)	ND(0.63)	**50.**	**32. J**
1065EX312	1065EX312[6.0]	Excavation 1 - Bottom	19-Mar-08	**7.2 J**	**0.013 /J**	ND(0.3)	**58.**	ND(0.6)	ND(0.3)	ND(0.6)	**53.**	**28. J**
1065EX313	1065EX313[4.5]	Excavation 1- Sidewall	19-Mar-08	**42. J**	**0.091**	ND(0.29)	**49.**	ND(0.59)	ND(0.29)	ND(0.59)	**44.**	**120. J**
1065EX314	1065EX314[5.5]	Excavation 1- Sidewall	19-Mar-08	**130. J**	**0.24**	ND(0.3)	**50.**	ND(0.61)	**0.084 /J**	ND(0.61)	**45.**	**450. J**
EXCAVATION 2												
1065EX341	1065EX341[7.0]	Excavation 2 - Bottom	12-Nov-07	**6.1 J**	**0.03**	**0.22 /J**	**34.**	ND(0.61)	ND(0.3)	ND(0.61)	**56.**	**48. J**
	DUP111207	Excavation 2 - Bottom	12-Nov-07	**4.4 J**	**0.064**	ND(0.32)	**42.**	ND(0.65)	ND(0.32)	ND(0.65)	**56.**	**37. J**
1065EX342	1065EX342[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**200. J**	**0.97**	ND(0.27)	**31.**	ND(0.55)	ND(0.27) U	ND(0.55)	**43.**	**160. J**
1065EX343	1065EX343[5.0]	Excavation 2 - Sidewall	12-Nov-07	**68. J**	**0.27**	**0.20 /J**	**74.**	ND(0.56)	ND(0.28) U	ND(0.56)	**58.**	**99. J**
1065EX344	1065EX344[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**8.3 J**	**0.01 /J**	ND(0.29)	**30.**	ND(0.57)	ND(0.29)	ND(0.57)	**41.**	**25. J**
1065EX345	1065EX345[5.0]	Excavation 2 - Sidewall - overexcavated	12-Nov-07	**53. J**	**0.093**	ND(0.28)	**26.**	ND(0.57)	ND(0.28) U	ND(0.57)	**60.**	**91. J**

Table 2-12. Confirmation Sample Analytical Results - Metals

			Analyte	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			Cleanup Level	400 mg/kg	20 mg/kg	360 mg/kg	1400 mg/kg	360 mg/kg	360 mg/kg	5.7 mg/kg	650 mg/kg	22000 mg/kg
Station Name	Sample Number	Sample Location	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
EXCAVATION 3												
1065EX350	1065EX350[4.0]	Excavation 3 - Sidewall	30-Oct-07	**240. J**	**0.49**	**0.19 /J**	**51. J**	ND(0.63)	**0.27 /J**	ND(0.63)	**41.**	**210. J**
	DUP103007	Excavation 3 - Sidewall	30-Oct-07	**510. J**	**0.81**	**0.27 /J**	**51. J**	ND(0.63)	**0.31 /J**	ND(0.63)	**45.**	**260. J**
1065EX351	1065EX351[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.19) J	**9.2**	ND(0.27)	**15. J**	ND(0.54)	ND(0.27)	ND(0.54)	**130.**	**51. J**
1065EX352	1065EX352[4.0]	Excavation 3 - Sidewall	30-Oct-07	**280. J**	**0.22**	**0.29 /J**	**80. J**	ND(0.6)	ND(0.3)	ND(0.6)	**42.**	**180. J**
1065EX353	1065EX353[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.21) UJ	**8.9**	ND(0.28)	**14. J**	ND(0.56)	ND(0.28)	ND(0.56)	**110.**	**45. J**
1065EX354	1065EX354[4.0]	Excavation 3 - Sidewall	30-Oct-07	**400. J**	ND(0.025)	**0.075 /J**	**48. J**	ND(0.57)	ND(0.28)	ND(0.57)	**45.**	**340. J**
1065EX355	1065EX355[4.0]	Excavation 3 - Sidewall	30-Oct-07	**4.7 J**	ND(0.023)	ND(0.29)	**40. J**	ND(0.58)	ND(0.29)	ND(0.58)	**35.**	**29. J**
1065EX356	1065EX356[4.0]	Excavation 3 - Sidewall	30-Oct-07	ND(0.18) UJ	**1.4**	ND(0.26)	**9.5 J**	ND(1) U	ND(0.26)	ND(0.52)	**75.**	**35. J**
1065EX357	1065EX357[4.0]	Excavation 3 - Sidewall	31-Oct-07	**18. J**	**0.14**	ND(0.3)	**160.**	ND(0.6)	ND(0.3)	ND(0.6)	**45.**	**51. J**
1065EX358	1065EX358[4.0]	Excavation 3 - Sidewall	31-Oct-07	ND(0.25)	**13.**	ND(0.28)	**17.**	ND(0.56)	ND(0.28) U	ND(0.56)	**120.**	**51. J**
1065EX359	1065EX359[4.0]	Excavation 3 - Sidewall	01-Nov-07	**98. J**	**0.81 J-**	ND(0.3)	**41.**	ND(0.6)	ND(0.3) U	ND(0.6)	**33.**	**100. J**
1065EX360	1065EX360[4.0]	Excavation 3 - Sidewall - overexcavated	01-Nov-07	**74. J**	**1.5 J-**	ND(0.3)	**29.**	ND(0.6)	ND(0.3) U	ND(0.6)	**68.**	**120. J**
	DUP110107	Excavation 3 - Sidewall - overexcavated	01-Nov-07	**100. J**	**1.6 J-**	ND(0.29)	**25.**	ND(0.59)	ND(0.29) U	ND(0.59)	**51.**	**79. J**
1065EX361	1065EX361[4.5]	Excavation 3 - Sidewall	01-Nov-07	**68. J**	**0.23 J-**	ND(0.31)	**52.**	ND(0.62)	ND(0.31) U	ND(0.62)	**39.**	**73. J**
1065EX362	1065EX362[5.5]	Excavation 3 - Bottom	01-Nov-07	**12.**	**0.63**	**0.12 /J**	**39.**	**0.12 /J**	**0.028 /J**	**0.017 /J**	**39.**	**43.**
1065EX363	1065EX363[8.0]	Excavation 3 - Bottom	07-Nov-07	**5.1**	**0.031 J+**	ND(0.31) U	**42.**	**1.0**	ND(0.31)	ND(0.62)	**59.**	**38.**
1065EX364	1065EX364[6.0]	Excavation 3 - Bottom	07-Nov-07	**4.9**	**0.017 J+/J**	ND(0.3)	**59.**	**0.53 /J**	ND(0.3)	**0.23 /J**	**58.**	**32.**
1065EX365	1065EX365[6.5]	Excavation 3 - Bottom	07-Nov-07	**22.**	**2.0 J+**	ND(0.3)	**45.**	ND(0.6)	ND(0.3) U	**0.12 /J**	**63.**	**47.**
1065EX367	1065EX367[4.0]	Excavation 3 Sidewall - resample	14-Nov-07	ND(0.19)	**7.7**	ND(0.27)	**15.**	**1.7**	ND(0.27)	ND(0.55)	**140.**	**53.**
FORMER SEWER LINE EXCAVATION												
1065EX368	1065EX368[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**8.4**	**0.084**	ND(0.3)	**40.**	ND(0.61)	**0.13 /J**	ND(0.61)	**34.**	**26.**
1065EX369	1065EX369[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**6.3**	**0.11**	**0.10 /J**	**36.**	ND(0.6)	**0.13 /J**	ND(0.6)	**28.**	**20.**
1065EX370	1065EX370[8.0]	Former Sewer Line Excavation - Bottom	09-May-08	**9.2**	**0.43**	ND(0.35)	**48.**	ND(0.69)	**0.25 /J**	ND(0.69)	**61.**	**59.**
	DUP050908	Former Sewer Line Excavation - Bottom	09-May-08	**11.**	**0.012 /J**	ND(0.32)	**47.**	ND(0.65)	**0.25 /J**	ND(0.65)	**62.**	**50.**
1065EX371	1065EX371[8.0]	Former Sewer Line Excavation - Bottom	13-May-08	**3.6**	ND(0.024)	**0.16 /J**	**45.**	ND(0.6)	**0.052 /J**	**0.32 /J**	**51.**	**26.**

mg/kg Milligrams per kilograms

Results outlined in a box indicate that concentrations exceed cleanup levels.

ND(0.29) Not detected at reporting limit indicated in parentheses.

Checked: SRG

Approved: MJH

Table 2-13. Backfill Sample Results - TPH and BTEX

		Analyte Cleanup Level	TPH Diesel (C12-C24) 115 mg/kg		TPH Fuel Oil (C24-C36) 160 mg/kg		TPH Gasoline (C7-C12) 100 mg/kg		Benzene 0.005 mg/kg		Ethylbenzene 13 mg/kg		Toluene 1 mg/kg		Xylenes (m&p-) 33 mg/kg		Xylenes (o-) 33 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC400	1065BC400	15-Oct-07	**1.1**	**/Y**	**1.6**	**/J**	**0.17**	**/J**	ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)		ND(0.0044)	
1065BC401	1065BC401	15-Oct-07	**4.9**	**/Y**	**39.**		**0.14**	**/J**	ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)		ND(0.0049)	
1065BC402	1065BC402	11-Jan-08	**1.1**	**/Y**	**4.6**	**/J**	ND(1)		ND(0.0054)		ND(0.0054)		ND(0.0054)	U	ND(0.0054)	U	**0.00096**	**/CJ**

Checked: SRG
Approved: MJH

mg/kg	Milligram per kilogram
	Results outlined in a box indicate that reported results exceed the cleanup level.
ND(0.0044)	Not detected at reporting limit indicated in parentheses.

Table 2-14. Backfill Sample Results - Pesticides

		Analyte	**4,4'-DDD**	**4,4'-DDE**	**4,4'-DDT**	**Aldrin**	**alpha-BHC**	**beta-BHC**	**delta-BHC**	**gamma-BHC**	**Dieldrin**	**Endosulfan I**	**Endosulfan II**	**Endosulfan sulfate**
		Cleanup Level[(1)]/Units	**2 mg/kg**	**1.4 mg/kg**	**1.4 mg/kg**	**0.029 mg/kg**	**0.18 mg/kg**	**0.32 mg/kg**	**0.18 mg/kg**	**-- mg/kg**	**0.030 mg/kg**	**370 mg/kg**	**370 mg/kg**	**370 mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065BC402	1065BC402	11-Jan-08	ND(0.0034)	ND(0.0034)	ND(0.0034)	ND(0.0017)	ND(0.0017)	ND(0.0017)	ND(0.0017)	ND(0.0017)	ND(0.0034)	ND(0.0017)	ND(0.0034)	ND(0.0034)

		Analyte	**Endrin aldehyde**	**Endrin ketone**	**Endrin**	**alpha-Chlordane**	**gamma-Chlordane**	**Heptachlor epoxide**	**Heptachlor**	**Methoxychlor**	**Toxaphene**	**Azinphos-methyl**	**Bolstar**	**Chlorpyrifos**
		Cleanup Level[(1)]/Units	**18 mg/kg**	**18 mg/kg**	**18 mg/kg**	**0.37[(2)] mg/kg**	**0.37[(2)] mg/kg**	**0.088 mg/kg**	**0.12 mg/kg**	**310 mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065BC402	1065BC402	11-Jan-08	ND(0.0034)	ND(0.0034)	ND(0.0034)	ND(0.0017)	ND(0.0017)	ND(0.0017)	ND(0.0017)	ND(0.017)	ND(0.061)	ND(0.5)	ND(0.5)	ND(0.5)

		Analyte	**Coumaphos**	**Demeton-O**	**Demeton-S**	**Diazinon**	**Dichlorvos**	**Disulfoton**	**Ethoprop**	**Fensulfothion**	**Fenthion**	**Merphos**	**Methyl Parathion**	**Mevinphos**
		Cleanup Level[(1)]/Units	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065BC402	1065BC402	11-Jan-08	ND(0.5)	ND(0.5) UJ	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

		Analyte	**Naled**	**Phorate**	**Ronnel**	**Stirofos**	**Tokuthion (Prothiofos)**	**Trichloronate**
		Cleanup Level[(1)]/Units	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**	**-- mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065BC402	1065BC402	11-Jan-08	ND(4) UJ	ND(0.5)	ND(0.5)	ND(0.5) UJ	ND(0.5)	ND(0.5)

mg/kg	Milligrams per kilogram
ND(0.0034)	Not detected at reporting limit indicated in parentheses.
(1)	Presidio Residential Human Health Cleanup Level
(2)	Cleanup level applied to sum of alpha and gamma chlordane concentration
--	Indicates no Presidio cleanup level.

Checked: SRG

Approved: MJH

Table 2-15. Backfill Sample Results - Herbicides

		Analyte Cleanup Level[(1)]/Units	**2,4,5-T -- mg/kg**		**2,4,5-TP (SILVEX) -- mg/kg**		**2,4-D 620 mg/kg**		**2,4-DB -- mg/kg**		**Dalapon -- mg/kg**		**Dicamba 1,800 mg/kg**		**Dichloroprop -- mg/kg**		**DINOSEB -- mg/kg**		**MCPA -- mg/kg**		**MCPP -- mg/kg**	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC402	1065BC402	11-Jan-08	ND(0.01)		ND(0.01)		ND(0.1)		ND(0.1)		ND(0.25)		ND(0.01)		ND(0.1)		ND(0.05)		ND(10)		ND(10)	

mg/kg	Milligrams per kilogram
ND(0.01)	Not detected at reporting limit indicated in parentheses
(1)	Presidio Residential Human Health Cleanup Level
--	Indicates no Presidio cleanup level

Checked: SRG

Approved: MJH

Table 2-16. Backfill Sample Results - Metals

		Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead
		Cleanup Level	29 mg/kg	5.9 mg/kg	5000 mg/kg	140 mg/kg	1.7 mg/kg	1200 mg/kg	4000 mg/kg	230 mg/kg	400 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065BC400	1065BC400	15-Oct-07	**0.91**	**4.4**	**75.**	**0.55**	**0.14 /J**	**51.**	**5.1**	**74.**	**13.**
1065BC401	1065BC401	15-Oct-07	**0.12 J/J**	**3.0**	**200. J**	**0.56**	**0.046 /J**	**6.4**	**5.3**	**8.9**	**7.0**
1065BC402	1065BC402	11-Jan-08	**0.74 J**	ND(0.29)	**35.**	ND(0.1) U	ND(0.26)	**2.6 J**	**5.5**	**37. J**	ND(0.18)

		Analyte	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		Cleanup Level	20 mg/kg	360 mg/kg	1400 mg/kg	360 mg/kg	360 mg/kg	5.7 mg/kg	650 mg/kg	22000 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065BC400	1065BC400	15-Oct-07	**4.8**	**5.3**	**27.**	**0.11 /J**	**0.77**	ND(0.51)	**14.**	**30.**
1065BC401	1065BC401	15-Oct-07	**2.6**	**0.40 J**	**14.**	**0.074 /J**	**0.033 /J**	**0.074 /J**	**11.**	**42. J**
1065BC402	1065BC402	11-Jan-08	**0.016 /J**	ND(0.26)	**1.1**	ND(0.52)	ND(0.26)	ND(0.52)	**53.**	**21.**

Checked: SRG

mg/kg Milligrams per kilogram

ND(0.26) Not detected at reporting limit indicated in parentheses

Approved: MJH

Table 2-17. Backfill Sample Results - PAHs

		Analyte Cleanup Level	2-Methyl-naphthalene -- mg/kg		Acenaphthene 2700 mg/kg		Acenaphthylene -- mg/kg		Anthracene 308 mg/kg		Benzo(a)-anthracene 0.43 mg/kg		Benzo(a)pyrene 0.04 mg/kg		Benzo(b-fluoranthene 0.43 mg/kg		Benzo(g,h,i-perylene 620 mg/kg		Benzo(k)fluoranthene 0.43 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC400	1065BC400	15-Oct-07	**0.014**		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)		ND(0.005)	
1065BC401	1065BC401	15-Oct-07	**0.017**		ND(0.0051)		ND(0.0051)		**0.0031**	**/J**	**0.0022**	**/J**	**0.0019**	**/J**	**0.0054**		**0.01**		ND(0.0051)	

		Analyte Cleanup Level	Chrysene 4.3 mg/kg		Dibenzo(a,h)-anthracene 0.078 mg/kg		Fluoranthene 316 mg/kg		Fluorene 60 mg/kg		Indeno(1,2,3-cd)-pyrene 0.27 mg/kg		Naphthalene 9 mg/kg		Phenanthrene 86 mg/kg		Pyrene 241 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC400	1065BC400	15-Oct-07	ND(0.005)		ND(0.005)		**0.00072**	**/J**	**0.0063**		ND(0.005)		**0.018**		**0.035**		**0.0025**	**/J**
1065BC401	1065BC401	15-Oct-07	**0.0045**	**/J**	ND(0.0051)		**0.0034**	**/J**	**0.017**		**0.0012**	**/J**	**0.023**		**0.059**		**0.012**	

Checked: SRG

mg/kg	Milligram per kilogram
ND(0.005)	Not detected at reporting limit indicated in parentheses
--	Indicates no Presidio cleanup level

Approved: MJH

FIGURES

MACTEC

N

0 1000 2000

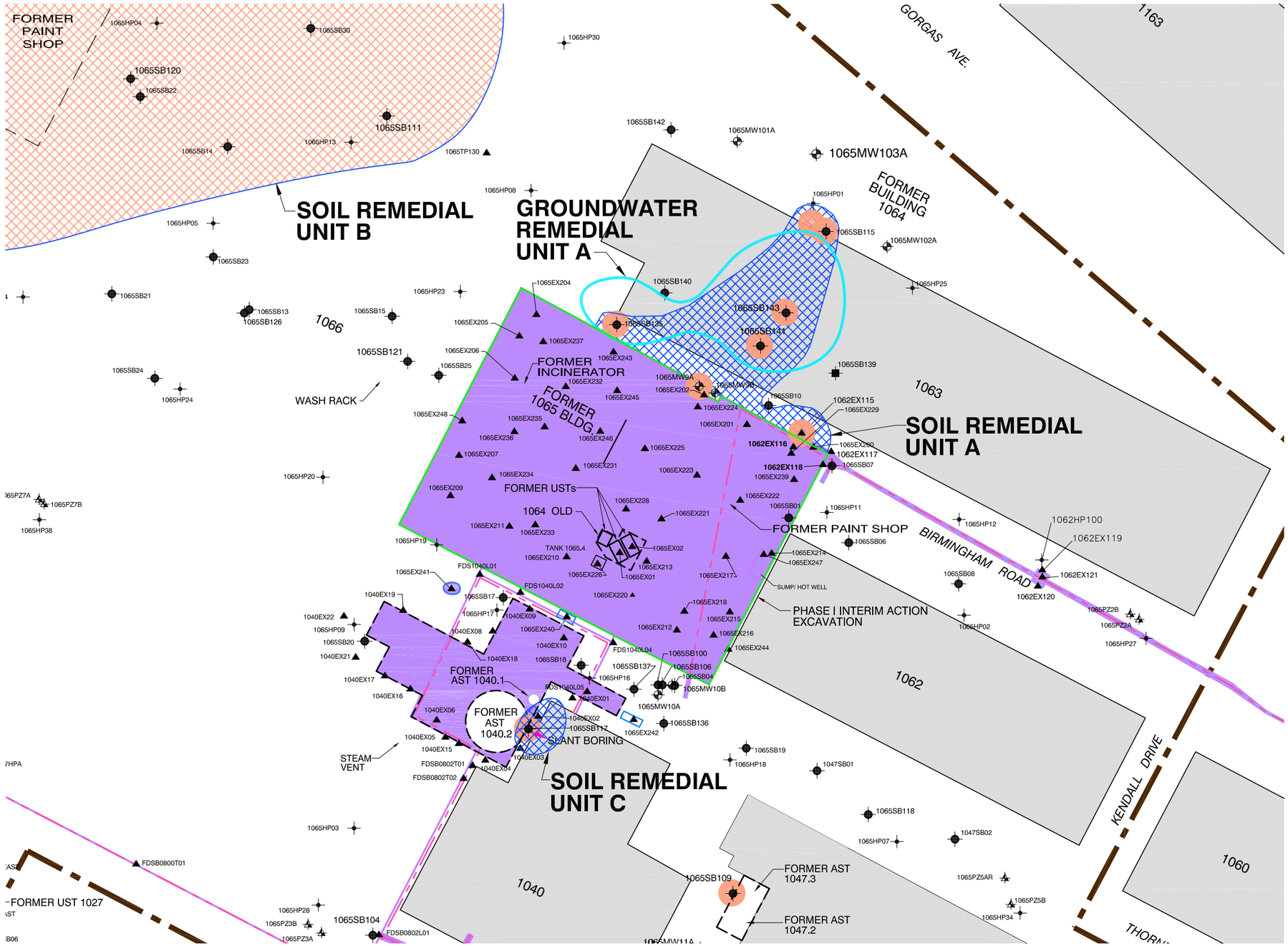
SCALE IN FEET

All locations are approximate.

Site Location Map
Construction Completion Report
Corrective Action Plan Implementation
Building 1065 Area
Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	**1-1**
APPROVED	MJH		
DATE	03/2009		
PROJECT NUMBER	4084075115		

4084075115010.DWG 40.0
20090304.1054



EXPLANATION

- MONITORING WELL
- PIEZOMETER
- HYDROPUNCH
- SOIL BORING
- EXCAVATION CONFIRMATION SAMPLE
- AREAS OF PREVIOUS CORRECTIVE ACTION
- PHASE I INTERIM ACTION EXCAVATION
- SOIL REMEDIAL UNIT IDENTIFIED IN CAP
- REMEDIAL UNIT TO BE ADDRESSED BY REMEDIAL ACTION PLAN FOR FILL SITE 6B
- GROUNDWATER REMEDIAL UNIT IDENTIFIED IN CAP
- 1065 BUILDING NUMBER
- EXISTING STRUCTURE
- STRUCTURE PREVIOUSLY REMOVED
- LOCATION OF FORMER FUEL DISTRIBUTION PIPELINE
- FENCE
- FORMER EXCAVATION BOUNDARY
- BUILDING 1065 AREA SITE BOUNDARY
- LOCATION OF CLEANUP LEVEL EXCEEDANCE

N

0 40 80

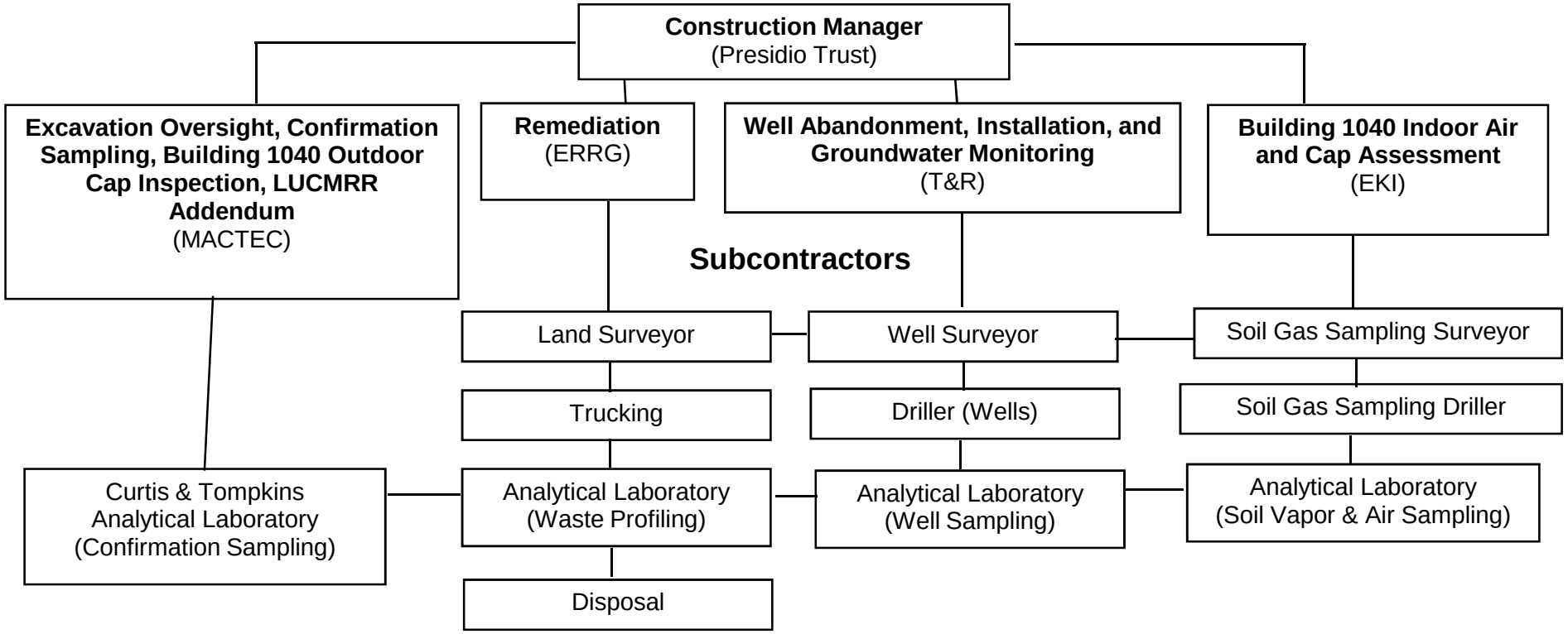
SCALE IN FEET

All locations are approximate.

Site Plan and Remedial Units Construction Completion Report Corrective Action Plan Implementation Building 1065 Area Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	1-2
APPROVED	MJH		
DATE	03/2009		
PROJECT NUMBER	4084075115		

4084075115007.DWG 1.0
20090304.0953



MACTEC

Project Organization

Construction Completion Report
Corrective Action Plan Implementation
Building 1065 Area, Presidio of San Francisco, California

Figure
1-3

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
MLB	4084075115	MJH	SRG	Mar-09	

1065EX350	4.0	4.0(Dup)
TPH Diesel	130	
TPH Gasoline	1900	2200
Lead		510

1065EX348	5.0
Benzo(a)pyrene	0.18

1065EX313	4.5
TPH Gasoline	2200
TPH Diesel	200

1065EX352	4.0
TPH Diesel	860
TPH Fuel Oil	570
TPH Gasoline	1100

1065EX355	4.0
TPH Gasoline	1100

1065SB117	7.7

1065MW101A
1065MW103A
1065MW102A
1065EX344
1065EX347
1065EX348
1065EX341
1065EX342
1065EX346
1065EX345
1065EX343
1065EX306
1065EX308
1065EX304
1065EX305
1065EX309
1065EX303
1065EX307
1065EX311
1065EX310
1065EX312
1065EX314
1065EX315
1065EX313
1065EX350
1065EX352
1065EX363
1065EX358
1065EX365
1065EX351
1065EX353
1065EX355
1065EX364
1065EX366
1065EX357
1065EX356
1065EX371
1065EX370
1065EX369
1065EX361
1065EX368
1065EX359
1065EX362
1065EX360
1065EX367
1065EX354

EXCAVATION 1
EXCAVATION 2
EXCAVATION 3
SEWER LINE EXCAVATION
mdrain manhole 1ft BGS.
Sump vault; approximately 5 ft BGS
Phase I Interim Action Excavation
SLANT BORING
BLDG 1063
BLDG 1062
GORGAS AVE
PARKING LOT
THORNP
BLD

MACTEC

LEGEND

- EXCAVATION CONFIRMATION SAMPLE EXCEEDING CLEANUP LEVELS
- SIDEWALL EXCAVATION CONFIRMATION SAMPLE
- FLOOR EXCAVATION CONFIRMATION SAMPLE
- GROUNDWATER MONITORING WELL
- EXCAVATION AREA BOUNDARY
- PREVIOUS EXCAVATION AREA BOUNDARY
- BOUNDARY OF FILL SITE 6B INVESTIGATION AREA
- EXISTING BUILDING
- 15 — TOPOGRAPHIC CONTOURS IN NAVD 88; CONTOUR INTERVAL 1 FOOT

1065EX313	4.5
TPH Diesel	200

Station
Sample Depth (feet below ground surface)
Concentrations in Mg/Kg
Analyte

Note: Only results exceeding cleanup levels are shown.

N

15 0 15 30
SCALE IN FEET

All locations are approximate.

THE PRESIDIO TRUST

Excavation Limits and Excavation Sample Locations
Construction Completion Report
Corrective Action Plan Implementation
Building 1065 Area
Presidio of San Francisco, CA

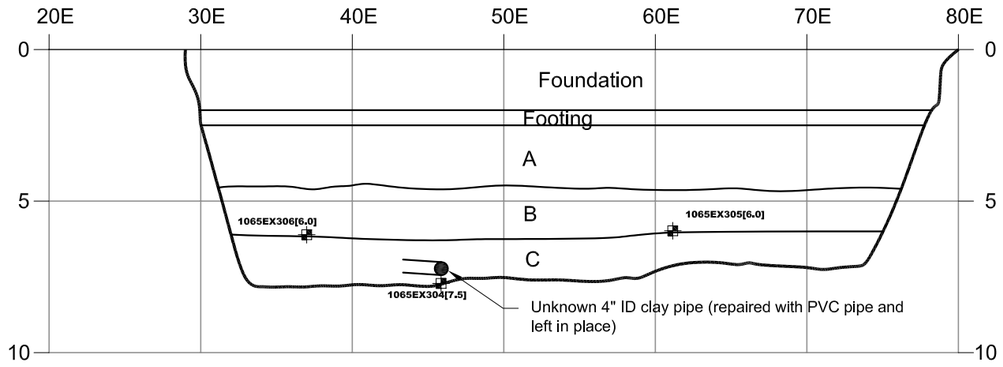
CHECKED	JHD
APPROVED	MJH
DATE	03/2009

FIGURE **2-1**

PROJECT NUMBER 4084075115

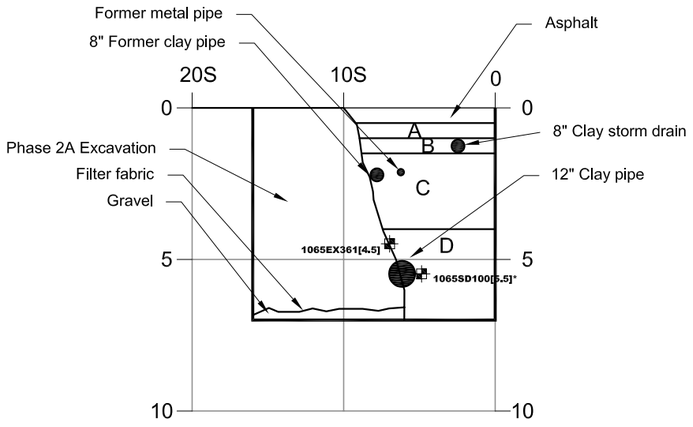
4084075115016.DWG 10.0
20090304.1058

North Sidewall
Excavation 1
Along line 60N



A - YELLOW SILT WITH GRAVEL (ML), hard, moist, fine to coarse sand, bricks (FILL)
B - YELLOWISH BROWN SAND (SP), soft, moist, fine sand
C - GREENISH GRAY SILT WITH SAND (ML), soft, wet, fine sand

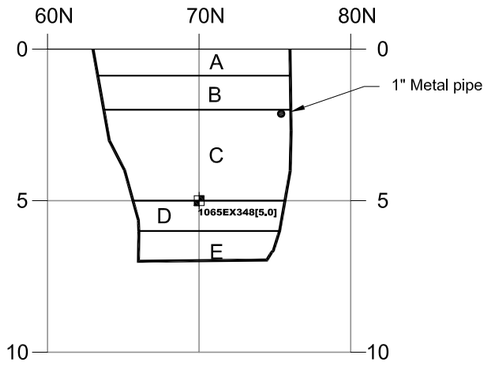
West Sidewall
Excavation 3



A - LIGHT RED ROADBASE (AC)
B - PALE YELLOW CLAYEY SAND (SC), hard, dry, fine to coarse sand
C - YELLOWISH BROWN SAND (SP), soft, moist, fine sand
D - GREENISH GRAY SAND WITH SOME CLAY (SP), soft, wet, fine sand
* - 1065SD100[5.5] Sample was collected from sludge inside 12" pipe.

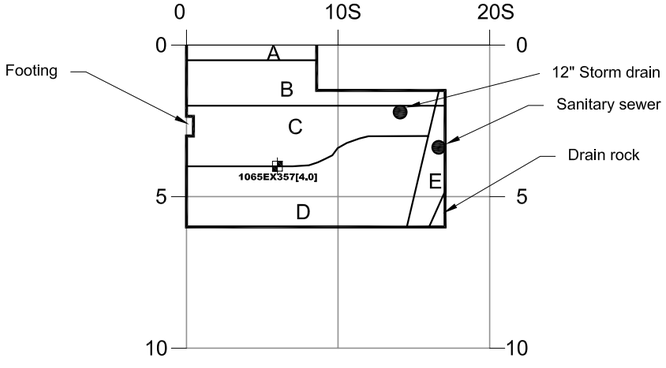
Note:
Only one sidewall cross section is shown for Excavations 1 and 2 because soil units encountered were consistent across each excavation.

West Sidewall
Excavation 2



A - 4" ASPHALT AND 6" LIGHT RED ROADBASE (AC).
B - PALE YELLOW CLAYEY SAND (SP), hard, dry, dry, fine to coarse sand
C - CLEAN SAND YELLOWISH BROWN SAND (SP), soft, moist, fine sand
D - GREENISH GRAY SAND WITH SOME CLAY (SC), soft, wet, fine sand
E - DARK GREENISH GRAY CLAY WITH SAND (CL), soft, wet, very fine to fine sand

East Sidewall
Excavation 3



A - 6" CONCRETE PAD
B - WEAK RED, CLAYEY SAND (SC), firm, moist, fine sand, bricks and debris (FILL)
C - YELLOWISH BROWN SAND (SP), soft, moist, fine sand
D - GREENISH GRAY SAND WITH CLAY (SC), soft, wet, fine sand, increasing clay with depth
E - ROAD BASE (AC) backfill from IA excavation

MACTEC

LEGEND

EXCAVATION CONFIRMATION SAMPLE

HORIZONTAL
5 0 5 10
SCALE IN FEET

VERTICAL
2.5 0 2.5 5
SCALE IN FEET

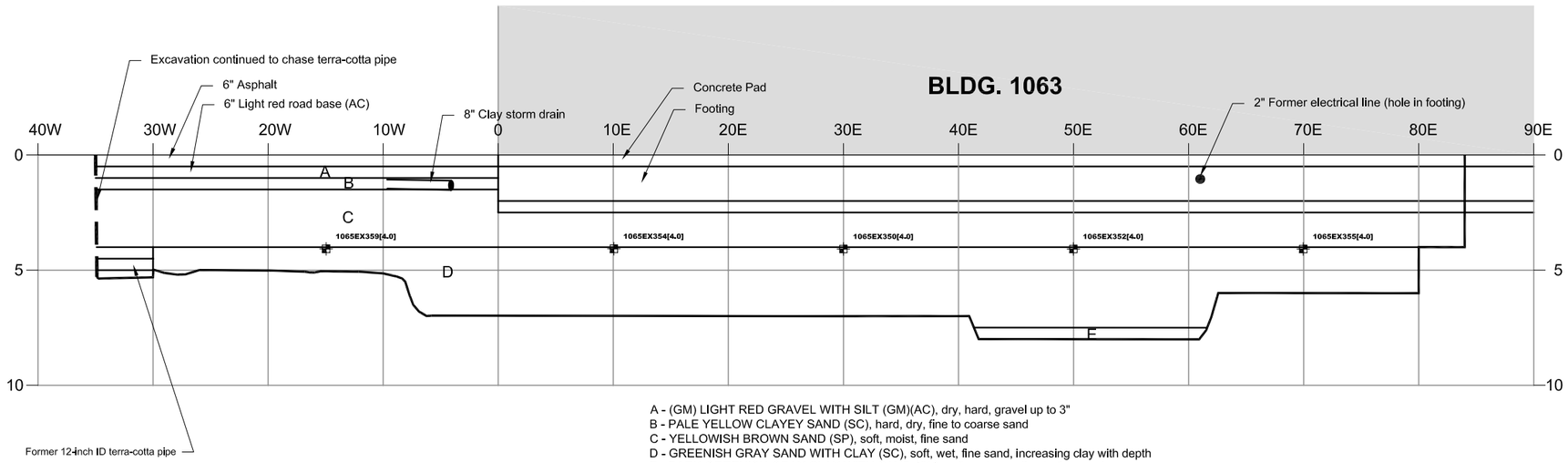
All locations are approximate.

Excavation Sidewall Cross-Sections
Construction Completion Report
Corrective Action Plan Implementation
Building 1065 Area
Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	**2-2**
APPROVED	MJH		
DATE	03/2009		
PROJECT NUMBER	4084075115		

4084075115014.DWG 10.0
20080724.1149

North Sidewall
Excavation 3
(South Foundation Wall)



A - (GM) LIGHT RED GRAVEL WITH SILT (GM)(AC), dry, hard, gravel up to 3"
B - PALE YELLOW CLAYEY SAND (SC), hard, dry, fine to coarse sand
C - YELLOWISH BROWN SAND (SP), soft, moist, fine sand
D - GREENISH GRAY SAND WITH CLAY (SC), soft, wet, fine sand, increasing clay with depth
E - DARK GREENISH GRAY CLAY WITH SAND (CL), soft, wet, very fine to fine sand

MACTEC

LEGEND

EXCAVATION CONFIRMATION SAMPLE

EXISTING BUILDING

HORIZONTAL
6 0 6 12
SCALE IN FEET

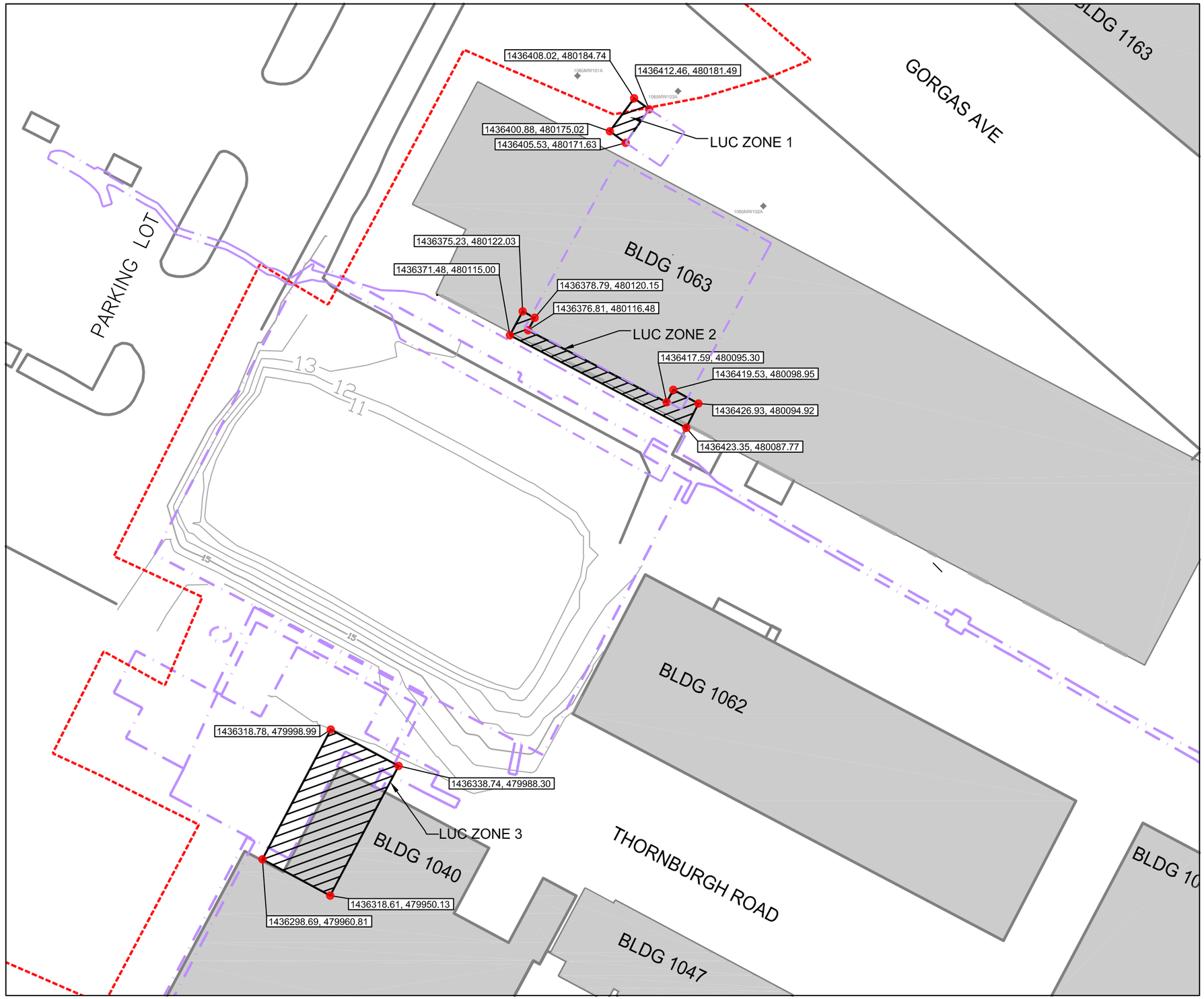
VERTICAL
3 0 3 6
SCALE IN FEET

All locations are approximate.

Excavation Sidewall Cross-Sections
Construction Completion Report
Corrective Action Plan Implementation
Building 1065 Area
Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	**2-3**
APPROVED	MJH		
DATE	03/2009		
PROJECT NUMBER	4084075115		

4084075115014.DWG 10.0
20080724.1149



MACTEC

LEGEND

- SELECATED VERTEX WITH X,Y COORDINATES, NAD 1927, CALIFORNIA STATE PLANE, ZONE 3, U.S. SURVEY FEET.
- LAND USE CONTROL ZONES
- PREVIOUS EXCAVATION AREA BOUNDARY
- BOUNDARY OF FILL SITE 6B INVESTIGATION AREA
- EXISTING BUILDING
- 15 — TOPOGRAPHIC CONTOURS IN NAVD 88; CONTOUR INTERVAL 1 FOOT

1436403.67, 480184.03

NORTHING AND EASTING COORDINATES IN NAVD 88; FOR CORNERS OF LUC ZONES

N

15 0 15 30

SCALE IN FEET

All locations are approximate.

Land Use Control Areas
Construction Completion Report
Corrective Action Plan Implementation
Building 1065 Area
Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	**6-1**
APPROVED	MJH		
DATE	03/2009		
PROJECT NUMBER	4084075115		

4084075115014.DWG 10.0
20090305.1126

APPENDICES A through M

Provided on DVD

APPENDIX A

PHOTOGRAPHS – BUILDING 1063 EXCAVATIONS

Appendix A – Photographs
Building 1065 Area Excavations

October 19, 2007. Excavation 3 from the southeast, prior to beginning excavation activities. South side of Building 1063.

October 19, 2007. Excavation 2 from the northwest, prior to beginning excavation activities. North side of Building 1063.

Appendix A – Photographs
Building 1065 Area Excavations

October 19, 2007. Excavation 3 from the west. Building 1063 is shown on the left.

October 29, 2007. Excavation 3 from the east. Excavation is approximately 3 feet deep.

Appendix A – Photographs
Building 1065 Area Excavations

October 29, 2007. West end of Excavation 3 from the southeast. Top of unknown concrete/brick sump being removed from the excavation.

October 29, 2007. Excavation 3 from the southwest. Planned excavation dimensions excavated to approximately 4 feet below ground surface (bgs).

Appendix A – Photographs
Building 1065 Area Excavations

October 29, 2007. West end of Excavation 3 looking west.
Shows the pipes exiting to the west from the unknown vault (now removed).

October 29, 2007. Excavation 3 looking west. Initial set up of the trench boxes.

Appendix A – Photographs
Building 1065 Area Excavations

October 30, 2007. North sidewall of Excavation 3. Looking North. Showing Building 1063 foundation and typical sidewall sample location and depth.

October 30, 2007. Excavation 3 from the southwest. Setting up the trench boxes.

Appendix A – Photographs
Building 1065 Area Excavations

November 6, 2007. West end of Excavation 3. Looking north. Showing sump area used for water removal.

November 6, 2007. Excavation 3. Looking to the northwest. Shows trench boxes sanitary sewer manhole where water was discharged (under traffic barrier in foreground).

Appendix A – Photographs
Building 1065 Area Excavations

November 6, 2007. Excavation 3. Looking south west (Building 1040 in background). Showing discharge point.

November 8, 2007. Excavation 3. Looking west from east side.

Appendix A – Photographs
Building 1065 Area Excavations

November 8, 2007. Excavation 3. Looking west from midpoint of excavation.

November 12, 2007. Excavation 2. Looking northwest from the southwest corner.

Appendix A – Photographs
Building 1065 Area Excavations

December 19, 2007. Picture shows pipe leaving western edge of Excavation 3 and sludge inside pipe (1065SD100).

December 19, 2007. West end of Excavation 3 from the southwest.

Appendix A – Photographs
Building 1065 Area Excavations

December 19, 2007. Excavation 3. Looking west. Shows filter fabric placed on northern side of excavation and beginning of backfill activities.

December 21, 2007. Excavation 2 from the northeast. Shows elevation of gravel placed in excavation.

Appendix A – Photographs
Building 1065 Area Excavations

December 21, 2007. Excavation 3 from the west. Western trench completely backfilled and compacted. Compacting AB in main portion of excavation.

January 22, 2008. Looking northwest inside Building 1063. Shows roof shoring for northern-most row of the building support columns and excavating for the new concrete support foundations.

Appendix A – Photographs
Building 1065 Area Excavations

January 22, 2008. Excavation 2 from the northwest.
Shows final grade and new asphalt cap.

January 22, 2008. Excavation 3 from the west. Shows final grade.

Appendix A – Photographs
Building 1065 Area Excavations

March 5, 2008. Looking northwest inside Building 1063. Shows new building support columns and thickness of concrete pad.

March 7, 2008. Northern portion of Excavation 1 from the east. Depth of excavation is 7.5 to 7.75 feet bgs.

Appendix A – Photographs
Building 1065 Area Excavations

March 13, 2008. Excavation 1. Looking southwest from northeast corner.

March 14, 2008. Excavation 1 from the northeast.

Appendix A – Photographs
Building 1065 Area Excavations

March 17, 2008. Southeast corner of Excavation 1. Looking east.

March 18, 2008. Excavation 1 from the northeast.

Appendix A – Photographs
Building 1065 Area Excavations

March 19, 2008. Excavation 1 from the southwest.
Excavation depths range from 6.5 to 8.5 feet bgs.

March 26, 2008. Excavation 1 from the southeast.

Appendix A – Photographs
Building 1065 Area Excavations

March 26, 2008. Excavation 1 from the southeast. Over excavating the eastern sidewall.

May 9, 2008. Excavation 1 inside Building 1063. Looking northwest. Shows the final grade and the final building support replacement columns.

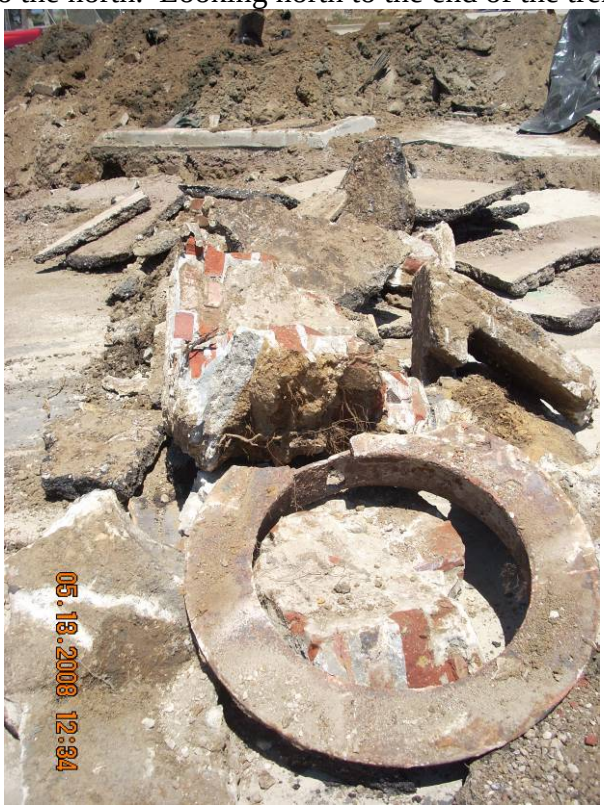
Appendix A – Photographs
Building 1065 Area Excavations

May 9, 2008. Sewer line trench. Looking east towards Building 1063.

May 13, 2008. Former location of inactive sewer line manhole (lower left corner). Excavating 10-inch clay pipe which exited the manhole to the southeast. Looking southeast.

Appendix A – Photographs
Building 1065 Area Excavations

May 13, 2008. Former location of inactive sewer line manhole (bottom) and the 12-inch ID clay pipe exiting it to the north. Looking north to the end of the trench excavation.



May 13, 2008. The remains of the former sewer line manhole from the western trench.

Appendix A – Photographs
Building 1065 Area Excavations

May 9, 2008. Building 1040 from the west northwest. LUC Zone 3 is roughly located in front of the double doors shown on the left. (For more pictures of LUC Zone 3 see the LUCMMR Addendum in Appendix M).

June 3, 2008. LUC Zone 1 cap from the northwest.

Appendix A – Photographs
Building 1065 Area Excavations

June 3, 2008. The outdoor portion of the cap for LUC Zone 2 from the east.

June 3, 2008. The indoor portion of the cap for LUC Zone 2 from the east.

APPENDIX B

PROGRESS REPORTS

APPENDIX B
PROGRESS REPORTS

CONTENTS

Progress Report for Weeks Ending June 8 and August 10 through 31, 2007
Progress Report for Weeks Ending October 19 and 26, 2007
Progress Report for Week Ending November 2, 2007
Progress Report for Week Ending November 8, 2007
Progress Report for Week Ending November 16, 2007
Progress Report for Weeks Ending November 23 and 30, 2007
Progress Report for Weeks Ending December 7 and 14, 2007
Progress Report for Weeks Ending December 21 & 28, 2007, and January 4 & 11, 2008
Progress Report for Weeks Ending January 18 & 25, and February 1, 2008
Progress Report for Weeks Ending February 8, 15, 22, and 29, 2008
Progress Report for Weeks Ending March 7, 2008
Progress Report for Weeks Ending March 14, 2008
Progress Report for Weeks Ending March 21, 2008
Progress Report for Weeks Ending March 28 and April 4, 2008
Progress Report for Weeks Ending April 11, 18, & 25, and May 2, 9, 16, & 23, 2008
Progress Report for Weeks Ending May 23 through August 8, 2008

Reviewed by __SRG__

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Groundwater Monitoring

Weeks Ending: June 8, August 10-August 31

Summary of Work Performed

- June 7, 2007 – Well 1065MW103A was sampled by Treadwell and Rollo, Inc. A copy of the groundwater sampling form is attached.
- August 7, 2007 - MACTEC obtained results from the First Quarter 2007 groundwater sampling event and June 7, 2007 groundwater sampling event. These data represent baseline groundwater data prior to excavation of soil from RU-A. Copies of the groundwater data tables are attached.
- August 2007 - MACTEC reviewed the First and Second Quarter 2007 monitoring data to assess whether there were any significant differences in chemical concentrations or field measurements between these most recent groundwater monitoring events and historical groundwater monitoring data. Results of the evaluation are presented in the attached memorandum.

Issues and/or Scope Deviations and Resolution

- First and Second Quarter 2007 groundwater monitoring data from wells and piezometers downgradient of RU-A show relatively lower concentrations of chemical concentrations than have been detected in the last three quarters of groundwater monitoring.
- Analytical results for the newly installed well 1065MW103 show that groundwater COCs; TPHg, benzene, and arsenic; were not detected in 1065MW103.
- First and Second Quarter 2007 monitoring results do not suggest the need to re-evaluate the recommended rates for application of oxygen releasing compound estimated in the Corrective Action Implementation Work Plan.

Project Milestones Achieved

- Well 1065MW103A was sampled and results reviewed.

Work planned:

- Monitoring Well 1065MW103A was sampled a second time in Third Quarter 2007 and onsite wells will be sampled following completion of excavation activities at RU-A. Analytical results will be reported in the Completion Report.

Attachments

1. June 7, 2007 Groundwater Sampling Form - 1065MW103
2. Memorandum - Review of Groundwater Monitoring Results, Pre-Excavation Monitoring Event - First and Second Quarter 2007, Building 1065 Area, Presidio of San Francisco

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW103A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P.Cornish | Sampled by: P.Cornish | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 8.71

Depth to Water (WL, ft. below TOC): 4.97

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type Peri.

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) ~8.5

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 10 mins

Recharge Rate: Purge Rate: 250ml/min

2.25L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Hach Turb.

Time / Liters or ~~Gallons~~ ml	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0850 / Int	6.8	17.57	2.15	1990µS	200	63.0	DTW = 4.97
0853 / 750 ml	6.8	17.7	1.31	1865	201	21.0	DTW = 5.54
0856 / 1500 ml	6.8	18.3	1.22	1718	204	78.1	DTW = 5.72
0859 / 2250ml	6.8	18.4	1.48	1595	204	72.9	DTW = 6.02
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 0905

Purging Equipment: Pump - Type: Geotech Peri pump | Bailer - Type: Disp. | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW103A	1x 500ml Poly Np	CAT	2127	
	1x 500ml Poly HNO_3			
	1x 250ml Poly Nc			
	6x 40ml VOA HCL			

QUALITY CONTROL SAMPLES 1x500 ml poly NaOH + ZnAc

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Weeks Ending: October 19 and 26, 2007

Summary of Work Performed

- Mobilization of equipment and materials to site including bobcat, 2 excavators, one dump truck, conex box, scaffolding, trench shoring, generator, wood for column replacement, and 20,000-gallon water storage tank.
- Erection of fencing.
- Saw cut and removal of asphalt from Areas 2 and 3.
- Saw cut and removal of concrete around roof support columns.
- Removal of wood planks from mezzanine.

Issues and/or Scope Deviations and Resolution

- Sprinkler system located on mezzanine supplies water to sprinkler system on roof, which fire department requires to remain in place and active. Water supply to sprinkler system needs to be re-routed.

Project Milestones Achieved

- Asphalt removal completed in Areas 2 and 3.

Work planned:

- Excavation in Area 3 to commence on Monday October 29, 2007.

Attachments

1. October 19, 2007 Field Daily Log
2. Photographs

Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 4084075115 Task: 02.4

Date: 10/19/07

Project Location:

Notes by: Scott Graham

Onsite Personnel: Alberto, Tyson, James

Site Visitors: Brand Scaffolding

Weather: Overcast & Drizzling

Site Conditions & Safety Considerations:

Monitoring Equipment Used: None Calibration Date

Number of samples collected: Soil: Ø Water: Ø	COCs Attached	Yes	No
	Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite: Bobcat, Man Lift, Excavator (1 small), pk truck

Estimated volume excavated Ø	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards Ø	Bills of Lading Attached	Yes	No

Project Name: Building 1065 Area CAP Implementation Job # 4084075115 Task: 02.4

Date: 10/19/07

Notes by: Scott Graham

Materials onsite trench plates, generator, wood for support ~~replacement~~

Field Notes: Onsite 630 - Left office 530

Alberto from ERRG onsite at 7am

Open up building, Tyson Appel (ERRG) onsite 710-740

Concrete on S side of building (excavation Area 3) has been removed & 4' square of concrete has been sawcut & broken up (not removed yet) around 16 support columns

~~Meet~~ Discuss start up work (Groundbreaking scheduled for 10/24/07) w- Tyson
- First day will be setting up the trench plates, start excavation
2nd day, schedule 1st Lab Courier (Gentively) for the 3rd day (Wednesday)

Discuss Mezzanine removal - ERRG got approval to remove Mezzanine from 2nd post ~~West~~ (from west wall) to the eastern wall, however Live sprinkler system (under Mezzanine) is in the way & needs to be disconnected
The Fire dept gave approval but wants sprinkler system on the roof to remain active

Electrical line between building 1062 (NW corner) & bldg 1063 is active & will remain in place (1' Powers the east side of Bldg 1063) - have to be aware of when moving equipment as it hangs fairly low

Alberto removing concrete from around the support columns & loading into bobcat bucket

I depart to pick up some paperwork at Baker Beach at 8am, return at 835

Tyson back at 837, Brand scaffolding onsite 830 to drop of scaffolding for temp roof support while replacing ~~Rotten~~ Wooden support beams

Concrete pad is average 6" thick

9am - Dan Beste onsite with holding tank (≈20,000 gallon) - Departs 912

James (ERRG) onsite 905, Ryan (Trust) onsite 910

925 - Discuss safety issues, future safety meeting, visitors/inspectors, Demo

All support columns are to be removed, if inspector around - will stop work

Daily Field Logs Sheet 3 of 3

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511-5 **Task:** 02.4

Date: 10/19/07

Notes by: Scott Graham

Materials onsite

Field Notes: Talk to Mary Jo regarding dust/lead monitoring
Brand Scaffolding departs 930
Discuss potential electrical hazards, scaffolding + fall protection, shoring in Area 3
Sprinkler system has to be rerouted because the one under the mezzanine supplies the sprinklers on the roof (which the fire dept wants to keep on)
Discuss Excavation Area 2 + relocation of it compared to survey marks
Not doing buttresses anymore - See new construction plan
Given 2 copies of construction plan, supplemental geotechnical design calculations + the health + safety plan from EBRG - all dated October 2007 + 1 cd of the submittals
Ryan departs 1025
Depart 1045

Inside of Building 1063, showing mezzanine to be removed and saw cut concrete around roof support columns; view looking north.

20,000 gallon holding tank located west of former Building 1065; view looking northeast.

Inside of Building 1063. Top of roof support scaffolding

Excavation Area 3 on south side of Building 1063; view looking east.

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Week Ending: November 2, 2007

Summary of Work Performed

October 29, 2007

- Set up stockpile storage area.
- Excavated an approximate area 84 feet long, 17 feet wide, and 3 feet deep from Area 3 on the south side of Building 1063. Groundwater with odor encountered at approximately 3.5 feet bgs in the excavation.
- Found and capped a PVC pipe running east-west approximately 1 foot north of the sanitary sewer manhole on the east side of Excavation 3.
- A 12-inch diameter metal casing with wood inside was encountered in the central portion of Excavation 3; believed to be conductor casing from an abandoned well.
- A 4-foot deep vault was encountered on the west end of Excavation 3. The vault was covered by a metal plate. The upper 1 foot of the vault comprised concrete, the bottom 3 feet comprised brick. A 8-inch diameter clay pipe and a 4-inch diameter metal pipe entered the sump at 2 feet bgs. At 4 ft bgs, a 12- inch diameter clay pipe entered the sump.
- Began installation of shoring in Excavation 3.

October 30, 2007

- ERRG removed the metal casing from the excavation; the casing was 18.5 feet long.
- Site visit by NPS and Water Board.
- Completed installation of shoring in Excavation 3.
- Began dewatering Excavation 3.
- Collected confirmation soil samples 1065EX350 through 1065EX356 plus one duplicate sample, one equipment blank, and one trip blank.

October 31, 2007

- Removed and excavated soil from around pipes leading from former sump at west end of Excavation 3.
- The two pipes encountered in the upper 2 feet of the sidewalls at the west end of the excavation were removed - the 4-inch diameter metal pipe was 6 feet long and the 8-inch diameter clay pipe was 3 feet long. Black soil was encountered in the pipes with no PID readings. Both pipes angled to the south terminating at the approximate former Phase I IA excavation boundary. The lower 12- inch diameter clay pipe (assumed to be a former sewer line) extended to the west. Approximately 35 feet of clay piping was removed from an approximate 5 foot deep excavation.
- Collected sample 1065DE210 from discharge water contained in the storage tank. Tank contained approximately 8,000 gallons of water.
- Allied Concrete backfilled the hole where the metal casing was removed from the eastern portion of the excavation by pumping a 4-sack cement/sand slurry down the hole the pump hose was gradually pulled up as the hole was grouted. The hole was backfilled at an approximate depth of 14 feet below the pavement surface or 10 feet below the bottom

of the excavation. The grout went into Bay Mud effectively sealing off the conduit between the upper and intermediate groundwater zones.
- Collected confirmation soil samples 1065EX357 and 1065EX358 plus one duplicate sample, rinsate blank, and trip blank.

November 1, 2007
- Continued excavation dewatering.
- Trust indicated that confirmation soil samples from the piping overexcavation area would be collected at the same frequency as samples collected from Excavation 3; because the piping excavation would be considered an extension of Excavation 3. Samples were collected based on a 25-foot grid spacing.
- Collected confirmation soil samples 1065EX359 through 1065EX362 from the piping excavation following a 25 foot grid spacing.

Issues and/or Scope Deviations and Resolution

- Well conductor piping encountered and removed from Excavation 3. The borehole was grouted to reduce potential cross-contamination between shallow and intermediate groundwater zones.
- A sump was encountered in the west end of Excavation 3 and removed. Approximately 35 feet of clay piping that entered the sump was removed and confirmation samples were collected from the piping over-excavation at 25 foot intervals. The piping was removed as it was considered a potential source of contaminants.
- The sample from the storage tank containing water from dewatering the excavations was not analyzed for volatile organic compounds (VOCs) by 8260B in accordance with Table 4-1 of the work plan because VOCs were not listed compounds on the Presidio Industrial User Class II Waste water permit. This would represent a deviation from the work plan.

Project Milestones Achieved

- Began excavation and confirmation sampling of Area 3.

Work planned:

- Dewater and excavate soil to Bay Mud and collect bottom samples from Excavation 3.
- Pending results of 1065DE201, discharge water from storage tank to sanitary sewer.

Discussion Points for Next Stakeholder Meeting

- Progress reports will be submitted weekly. Verify need to submit progress reports on a weekly basis if no work is performed or if progress reports for multiple weeks can be combined
- Deviation from work plan - no analysis of dewatering samples for VOCs
- Adequacy of sidewall sampling from Excavation 3, based on configuration with piping over-excavation on west end.

Attachments
1. October 29, 30, 31, and November 1, 2007 Field Daily Logs
2. Photographs

Set up of soil stockpile area, view looking southwest.

12 inch diameter metal casing in Excavation 3.

Removal of vault from west end of Excavation 3, view looking northwest.

West end of Excavation 3. Piping in sidewalls from location of removed vault.

Metal casing removed from excavation

First installed section of shoring. View looking east.

Clay piping and metal piping removed from west end of Excavation 3 at sump location.

Piping overexcavation. View looking west.

Piping overexcavation. View looking northeast.

Daily Field Log Sheet 1 of 4

Project Name: Building 1065 Area CAP Implementation Job # 408407515 Task: 02.4

Date: 10/29/07

Project Location: Excavation 3 - South side of Bldg 1063

Notes by: Scott Graham

Onsite Personnel: Alberto, Tyson, James, Jason

Site Visitors:

Weather: Overcast, Approx 60°

Site Conditions & Safety Considerations: Slip/trip/fall hazards inside

Monitoring Equipment Used: Model 580B OVM Unit #1 Calibration ~~Ø~~ N Date 10/29/07

~~Using 100ppm Isobutylene~~

-Unit not working - pick up new one tonight

Number of samples collected: Soil: Ø Water: Ø	COCs Attached	Yes	No
	Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite: Bobcat, Manlift, small dump truck, 2 excavators (1 small, 1 medium), 20k gal Holding tank, Conex

Estimated volume excavated 84 x 17 x 3.5 ft	Site Plan Attached	Yes	(No)
Truck Loads of Soil Off-Hauled None	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards None	Bills of Lading Attached	Yes	No

Daily Field Logs Sheet 4 of 4

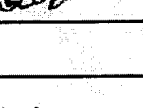
Project Name: Building 1065 Area CAP Implementation **Job #** 408407511.5 **Task:** 02.4

Date: 10/29/07

Notes by: Scott Graham

Materials onsite Shoring, Sonotube, wood for new building supports

Field Notes: Onsite 715 - Alberto onsite already
Tyson + James onsite 720
The Floor boards have been removed from the Mezzanine but the mezzanine Framework not removed yet because the Fire dept requires that the sprinkler system remain active above + they have not been able to schedule them for diversion yet
Concrete from around the supports has been removed + sonotubes 48" down delivered
ERRG performing vehicle/equipment inspections
Try to calibrate OVM Unit #1 - Unit is not working - pick up new one at office tonight
ERRG Lays plastic down in future soil stockpile area - 745
755 - Jason Gulbranson from ERRG Onsite
8 - conduct site safety meeting / discuss todays work
830 - Begin Excavation
Find + cap 6" PVC pipe traveling E/W approx 3' N of ~~Storm drain~~ sewer Manhole on East side of Excavation
Clear near Foundation on East side to determine foundation configeration
East end of Excavation in line with West side of ~~storm drain~~ sewer Manhole + West side of double door entrance
Fill is a mix of sand, clay, silt, gravel + brick
Water coming in excavation at 3.5 ft, Define odor in soil around 3.5'
Foundation is 2' deep (1.5' + 0.5' slab) + 6" T section on bottom so 6" thick on top 2' + then 18" wide for 6" for a total 2.5' deep foundation



Excavation approx 17' wide (NS) so it will be approx 15' wide with the shoring in place
1035 - Go to Baker Beach trailer to p/u more sample containers dropped off from the Lab - return 1115 - BB crew used my supplies - need to reorder

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02.4

Date: 10/29/07

Notes by: Scott Graham

Materials onsite

Field Notes: 1120 - call Lab to reorder supplies & schedule sample p/u for tomorrow at 3pm

1125 - Ryan onsite, Ryan Departs at 12

Run into what appears to be old pier - 12" metal casing with wood inside

Plan is to get full excavation to ≈ 3.5 ft bgs & construct shoring - Shoring should be complete be end of day tomorrow

Lunch 1210 - 1240

1300 - load of drain rock delivered

Go thru sample schedule & make Labels for tomorrows sampling

1445 - receive phone call from Mary Jo to discuss job progress - run all samples for full suite (wasn't sure if samples under foundation should only be run for a shorter, pre-lim List)

The vault on the ~~East~~ West side of Excavation Area 3 (covered by a Metal plate) was 1' concrete (pictures 60-62) with a brick ~~vault~~ sump? about 3' under it (total 4') several pipes filled with black mud (pictures 68-73) Lead into that vault very strong odor in the water & soil in this area, soil is very black

Dig west end a bit more, hit gravel on south side (fill of former Bldg 1065 ex) & water comes into the current ex (old ex, acting like a bathtub)

18" clay & one 6" metal coming in at approx 2' bgs & one 10" clay on bottom @ approx 4' bgs

Ryan Onsite 1515 - would like us to chase the pipes coming in to the west end of the excavation - Departs 1530

Mark Foundation in 10' increments for sampling grid - ex currently 84' Long x 17' wide from SW corner of building

1600 - 2nd Load of Drain rock arrives, Finish ex for day, begin building shoring

12 Drums of soil cuttings - from well destruct are being stored in Bldg 1063 - are we to remove with excavation soil?

1630 - Call office to get PID that works & charged before people leave for the night

Daily Field Logs Sheet 4 of 4

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02.4

Date: 10/24/07

Notes by: Scott Graham

Materials onsite

Field Notes:

Excavation not wide enough (about 6" to narrow) for 15' spreaders on shoring - Dismantle & need to excavate more tomorrow

ERRG going to finish dismantle & lock up site & plans to leave around 1730

1715 - I Depart site

1830 - at office

Scan Paperwork & download photos

Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 408407.5115 Task: 02.4

Date: 10/30/07

Project Location: Excavation Area 3

Notes by: Scott Cacaham

Onsite Personnel: Tyson, Jason, James, Alberto, Rafael

Site Visitors: Ram

Weather: Overcast & mild - 60s

Site Conditions & Safety Considerations:

Monitoring Equipment Used: HL-2000 MicroTIP Calibration Date 10/30/07

Calibrated use 100ppm isobutylene cal 815

Number of samples collected: Soil: 7 + Dup Water: 0 + EB+TB

COCs Attached (Yes) No

Sample Location Map Attached (Yes) No

Time Collected	Sample ID	Depth	Notes
835	1065EX350 [4]	4	
835	DUP103007-1		
910	1065Ex351 [4]		
945	1065Ex352 [4]		Equipblank 1345
1010	1065Ex353 [4]		
1405	1065Ex354 [4]		
1435	1065Ex355 [4]		
1450	1065Ex356 [4]		

Contractor Equipment Onsite: none new

Estimated volume excavated Ø Site Plan Attached (Yes) No

Truck Loads of Soil Off-Hauled Ø Manifests/Bills of Lading Attached Yes No

Imported Backfill Truckloads or Cubic Yards Ø Bills of Lading Attached Yes No

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511.5 **Task:** 02.4

Date: 10/30/07

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 645, Alberto + James onsite
Tyson, Jason, + Rafael arrive 655-705
Tailgate safety meeting, discuss todays work 715am
Measure building dimensions, Map out ex area, + set up sampling grids
- Determine Foundation is 8" thick on top section (not 6" as in notes yesterday)
Calibrate PID-805, Collect samples 350-353 + IDW + IMS/MSD
1010 - ERRG Finishes setup + placement of 1st shoring section on East side of ex 3 - Begins 2nd section
ERRG pumped some water from west end of excavation - ran pump for 2 hours
1030 Ram Onsite
1040. ERRG removes unknown pier found yesterday in appears to be a grouted up well in 12" conductor casing - 18.5' deep
ERRG ~~is going to~~ suggested install pipe + gravel + make former well into a sump for removing water from the ex - we should probably fill with grout as
Depart 1055 for 11am Trust holds meeting \ it punches thru the bay mud
RWQCB + Brian concur that we need to tremie the hole ASAP
1215 - return to site w Ryan, Ram, Brian + Devender to show them work done + discuss future work - They all depart 1235
Redraw site map + place sample locs + site features on map
Collect equipment blank
1400 - finish 2nd shoring segment start on 3rd
ERRG scheduled concrete with sand/cement grout to be delivered tomorrow to fill the hole where the 18.5' conductor casing was - earliest we could schedule
Tony - C+T courier picks up samples 350-356 + EB + TB
Call Lab to schedule p/u @ 3pm tomorrow
1600 - Finish 3rd Shoring Section, start on Section 4

415-672-1567
Tony

Daily Field Logs Sheet 3 of 3

Project Name: Building 1065 Area CAP Implementation **Job #** 408407S115 **Task:** 02.4

Date: 10/30/07

Notes by: Scott Graham

Materials onsite

Field Notes: √ Thru sample containers to see if I have the right sample containers for the discharge samples - Don't need 1-Lambers-w HCL, 100-mL plastics, + 0.5L plastics with NAOH - They were supposed to be dropped off today but courier could not find trailer at BB so they will be delivered here tomorrow

Take photos of site

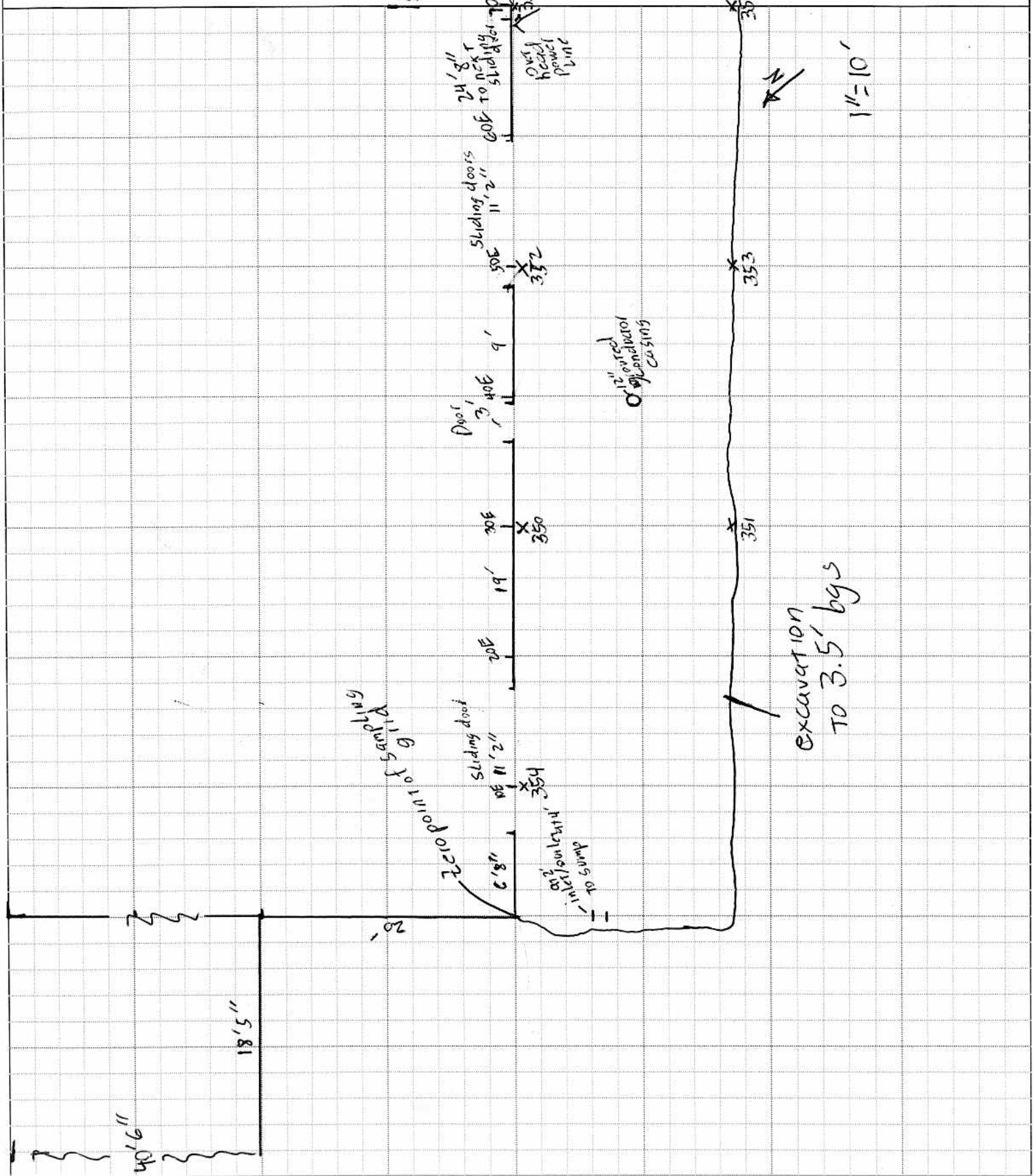
1730 ERRG still trying to assemble last shoring segment - They have one side of Z spreader still to hook up - They estimate 15-30 min to finishing - They are going to stay + finish tonight

1740 - Depart Site

1850 - at office - 89 miles

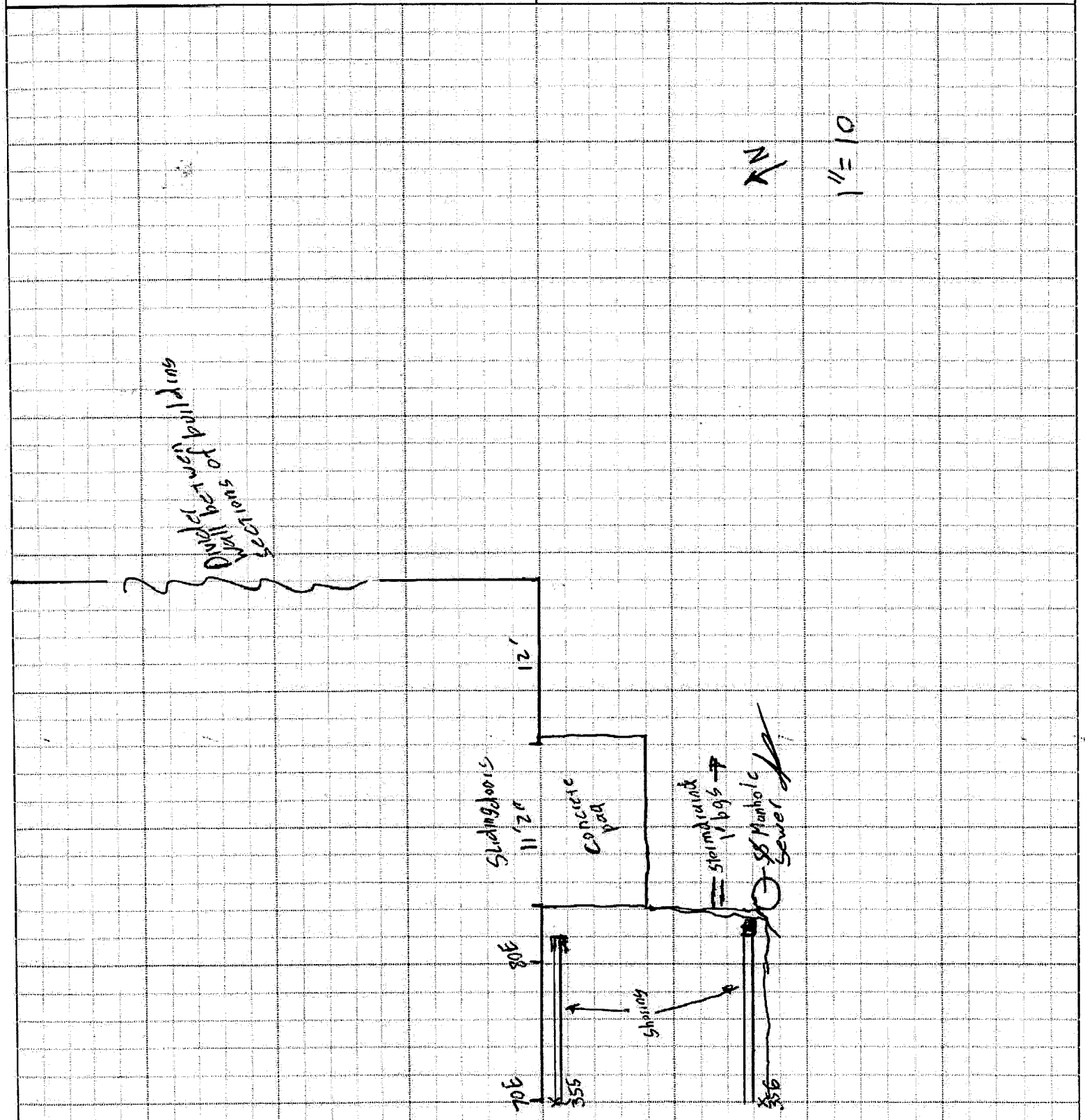
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 40880751.15 SHEET 1 OF 2
PHASE Excavation TASK 02.4
JOB NAME Presidio Bldg 1063
BY Scott Graham DATE 10/30/07
CHECKED BY _____ DATE _____



MACTEC
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 408807.115 SHEET 2 OF 2
PHASE Excavation TASK 02.4
JOB NAME Presidio Bldg 1063
BY Scott Graham DATE 10/30/07
CHECKED BY _____ DATE _____



Daily Field Log Sheet 1 of 4

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511.5 **Task:** 02.4

Date: 10/31/07

Project Location: Bldg 1063 Excavation Area 3

Notes by: Scott Graham

Onsite Personnel: Alberto, James, Rafael

Site Visitors: Ryan,

Weather: Overcast & mild - Low 60s

Site Conditions & Safety Considerations: tripping hazards, heavy equipment

Monitoring Equipment Used: Microtip HL-2000 **Calibration** **Date** 10/31/07

calibrate using 100ppm isobutylene

Number of samples collected: Soil: 2 Water: 1 +Dup +Trip +Equip

COCs Attached	(Yes)	No
Sample Location Map Attached	(Yes)	No

Time Collected	Sample ID	Depth	Notes
830	1065EX357[4.0]	4'	sidewall - East end
900	EX357RBEX358	NA	Equipment Blank
NA	TB103107	NA	trip blank
1015	1065EX358[4.0]	4'	sidewall - No concrete - Gravel
1430	1065DE210	NA	Holding Tank Discharge
1430	DUP103107	1	Dup

Contractor Equipment Onsite: Cement truck, cement pumper, water pump

Estimated volume excavated 35 x 5 x 2.5 ft³ **Site Plan Attached** (Yes) No

Truck Loads of Soil Off-Hauled NA **Manifests/Bills of Lading Attached** Yes (No)

Imported Backfill **Truckloads or Cubic Yards** NA **Bills of Lading Attached** Yes (No)

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511S **Task:** 02.4

Date: 10/31/07

Notes by: Scott Graham

Materials onsite

Field Notes: 655 - onsite, Alberto onsite, James onsite at 700
They finish up at about 6pm last night - finished the shoring
The plan for today is to set up the pump & pump more water so I can sample it this afternoon - we pumped about 5K gallons yesterday & chase out the pipes on the west end of the ex
Daily site safety meeting @ 720
Calibrate PID, set up decon station
745 - Alberto begins potholing west end of excavation to create area to pump water from
800 - Prepare & begin sampling sidewalls
840 - Begin pumping water from ex cavation
Begin chasing pipes at 9am at west end of Ex 3
Top metal pipe is 4" diameter & approx 6' long with many holes, very rusty
top (2' bgs) clay pipe is 8" OD & approx 3' long - both were filled with black dirt with no discernable odor or PID reading & did not have black earth in the surrounding native
The bottom (4' bgs) clay pipe is approx 12" OD & is different type clay than the shallower one, also filled with black soil that appears to be only in the pipe (no leakage from in surrounding soils) - Water poured out of pipe when encountered
bottom pipe appears to run more parallell to building & may be continuous - the top 2 angled to the south & encountered the old excavation (TA) - I were broken off previously
1015 Rafael (ERRG) onsite
Ryan onsite 1020 - 1045 - He wants us to keep chasing the pipes + wants the N+S sidewall samples on standard TAT as we are not going to need the results for awhile
Mary Jo called - We are running TPHg w encores so I need to take 3 more + 9 more for MS/MSD sample

Daily Field Logs Sheet 3 of 4

Project Name: Building 1065 Area CAP Implementation **Job #** 408407.5115 **Task:** 02.4

Date: 10/31/07

Notes by: Scott Graham

Materials onsite

Field Notes: I Need to collect 3 more from sample Loc 357 & put 356 on standard TAT

Modify COCs to reflect changes

1115 - Another call from Mary Jo - need 3 TBs & EB needs 1065 to start with 2nd Ex removed - she also requested 4.0 for depth instead of 4

Note: encores NOT collected for Ex 358 as it was in gravel road base & Ryan said no

Change COCs & sample Labels to reflect changes

I have 221 encore samples left - going to use at least (9x6)+36 = 96 for Ex 3 (+6) 72 for Ex 2 & 128 for Ex 1 assuming no more overex ≈ 300 - 80 short

Andrew Nolan onsite at 1240 to drop off sample containers for the discharge samples (dropped off at Baker Beach) - gave him the stainless steel plates

Called the Lab to discuss sampling & todays pick up - Steve says I only need 9 encores for the MS/MSD not 18 - I will get 12 to make sure we have enough

1315 Finish chasing pipe to approx 35ft west of excavation edge - pipe is still going - traveling under parking lot we will cap at 35

Discuss trench sampling & sketch trench

Go through sample containers & prep for sampling of holding tank & Dup

1430 collect samples - Approx 8000 gallons currently in tank

Put icechest out in preperation of courier coming while finishing up COC & taking a call from Mary Jo & the courier picked up the samples & left w/o the COCs - The icechest is gone (hopefully to the lab) - Called the Lab to let them know - Will Fax/email chains to Lab when I get back to office

Mary Jo told me that I do not have to designate a sample for Lvl IV Data Validation - Kristen & her will do that

Steve Stanley CH
510-204-2226

Daily Field Logs Sheet 4 of 4

Project Name: Building 1065 Area CAP Implementation **Job #** 4084075115 **Task:** 02.4

Date: 10/31/07

Notes by: Scott Graham

Materials onsite

Field Notes: 1545 Allied Concrete onsite with pump truck to grout conductor casing hole
Set up pump to pump water from hole before pumping grout in - could not get pump to work
Concrete truck onsite 1610 - cement mix listed as 408 FLO-4 sack cement/sand slurry
1630 - Begin pumping grout from ≈ 13 ft bgs - pull up as we grout - hole TD 18.5' bgs
1645 - Cap off Lower Clay pipe with same grout
Used a little more than a yard of grout
1705 - Cement truck + pumper depart site
Clean Up site + lock up equipment
Cover stockpile
1730 - All Depart
1845 at office - 89 miles

MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

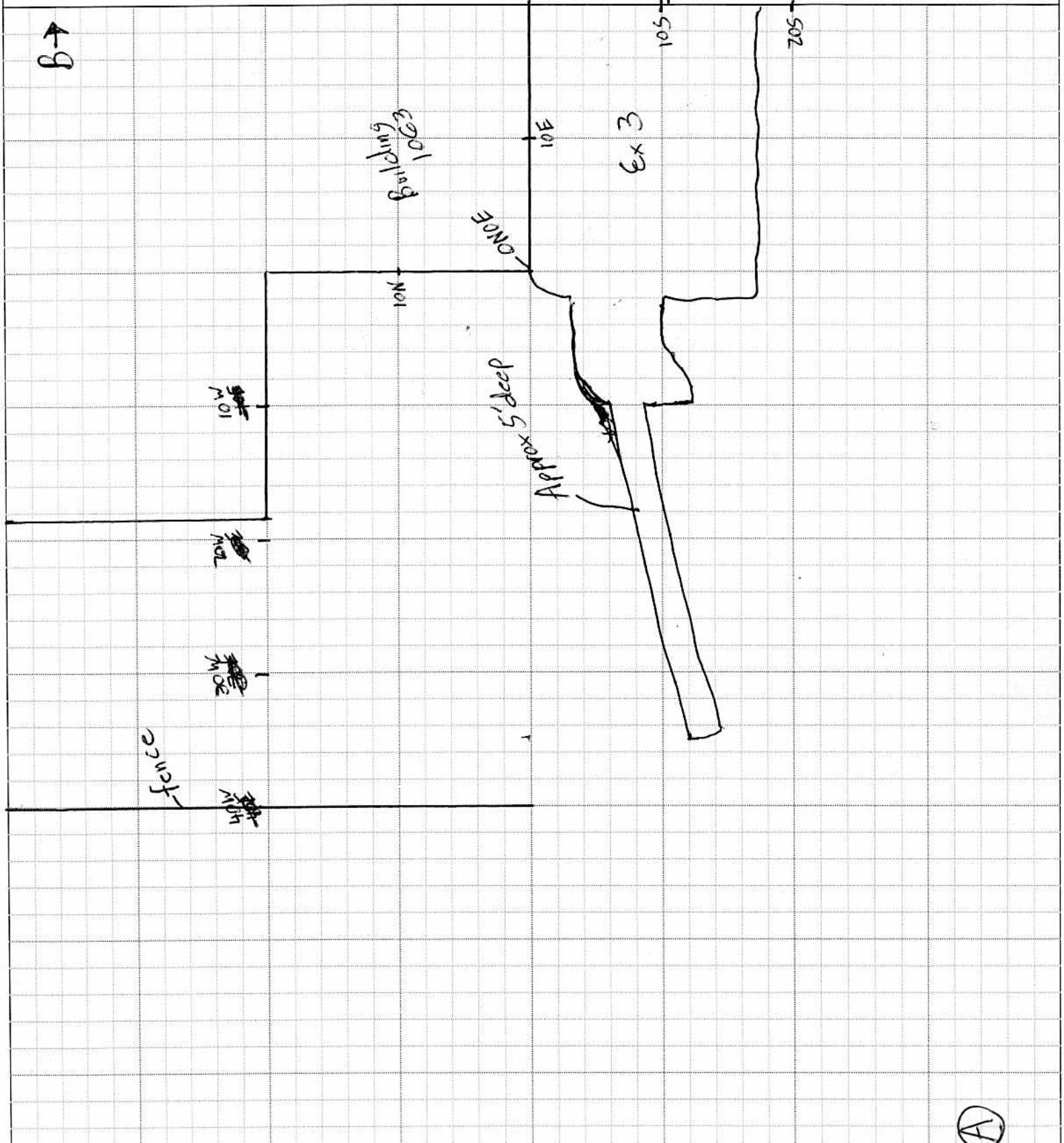
JOB NO. 408407515 SHEET 3 OF 3

PHASE Excavation Area 3 TASK 02.4

JOB NAME Presidio Bldg 1063

BY Scott Graham DATE 10/31/07

CHECKED BY _____ DATE _____

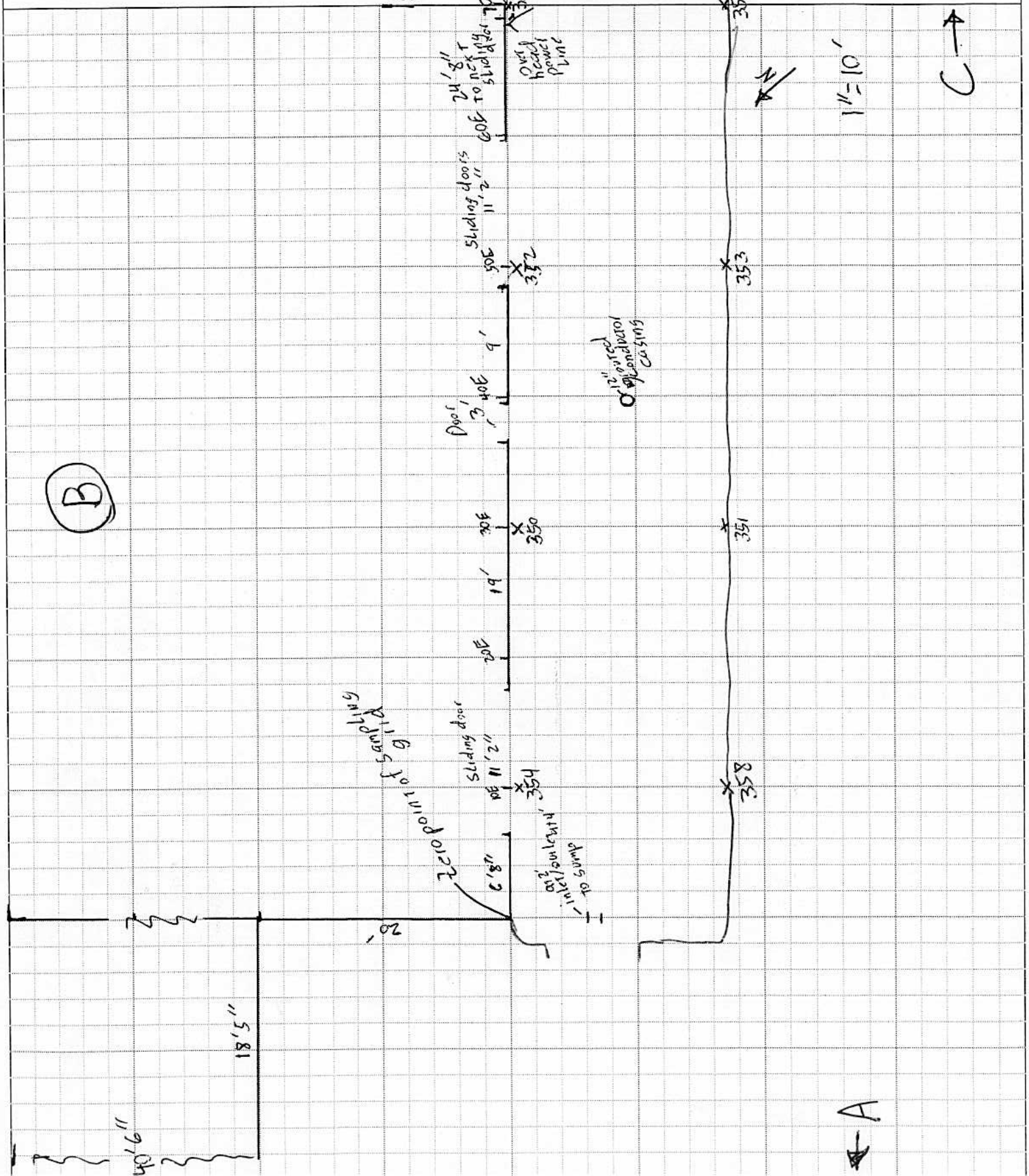


A

MACTEC

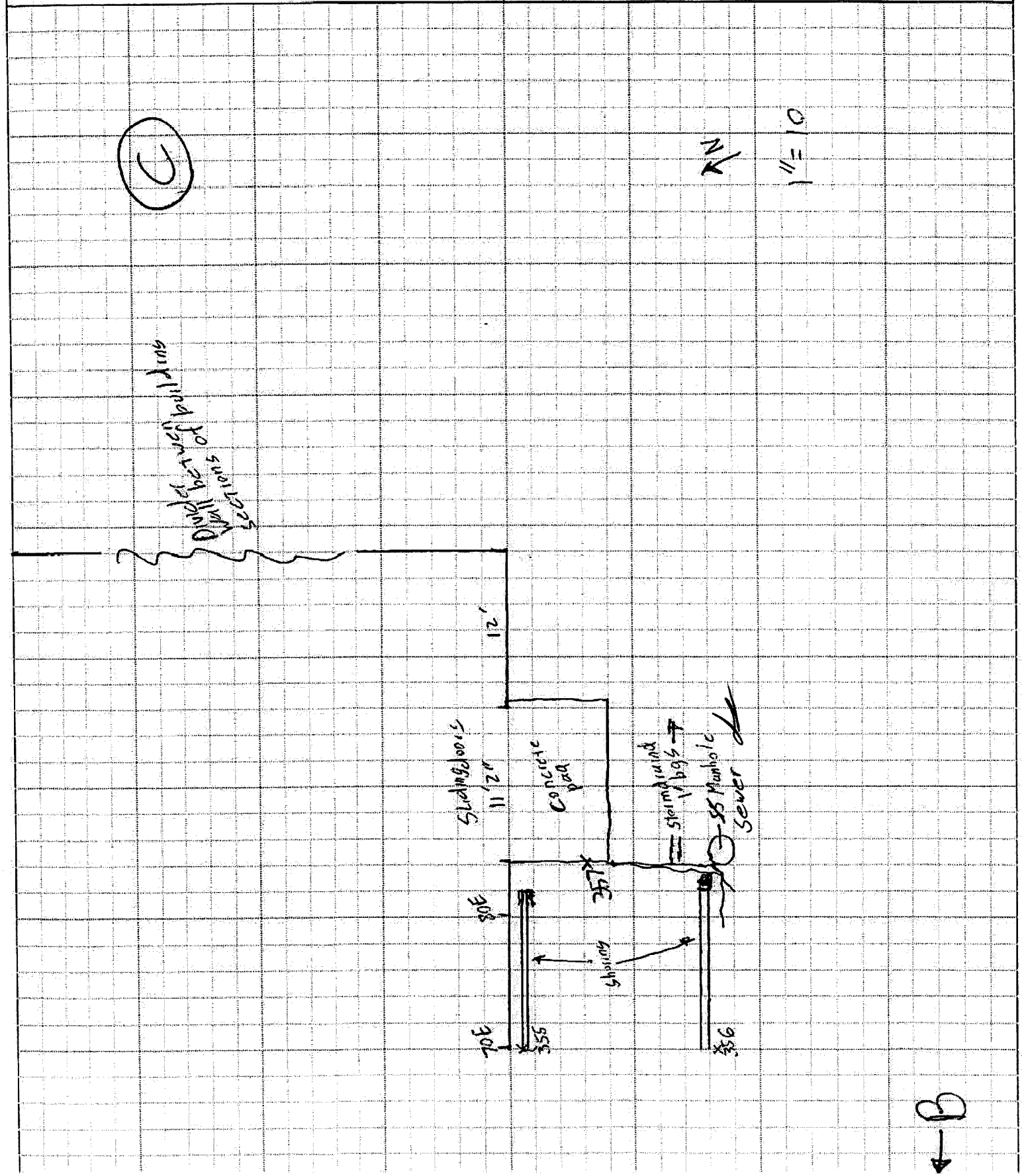
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 4088075115 SHEET 2 OF 3
PHASE Excavation TASK 02.4
JOB NAME Presidio Bldg 1063
BY Scott Graham DATE 10/31/07
CHECKED BY _____ DATE _____


See next page
24'8" to next page
Overhead power line
Sliding doors 11'2"
Door 3'
Door 3'
Sliding door
Overhead power line
Aerial sample
Aerial sample
Aerial sample

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 408807.115 SHEET 3 OF 3
PHASE Excavation TASK 02.4
JOB NAME Presidio Bldg 1063
BY Scott Graham DATE 10/31/07
CHECKED BY _____ DATE _____



Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation **Job #** 40840751115 **Task:** 02.4

Date: 11/1/07

Project Location: Bldg 1063 - Excavation Area 3

Notes by: Scott Graham

Onsite Personnel: Alberto, James

Site Visitors: Ryan

Weather: Overcast & Cool - low 60s

Site Conditions & Safety Considerations: trenches, slips/trips/falls, Heavy equipment

Monitoring Equipment Used: Microtip HL-2000 **Calibration** **Date** 11/1/07
using 100 ppm Isobuylene

Number of samples collected: Soil: 4+Dup Water: EB+TB

COCs Attached (Yes) No

Sample Location Map Attached (Yes) No

Time Collected	Sample ID	Depth	Notes
1305	1065EX359 [4.0]	4	
1330	1065EX360 [4.0]	4	
1330	DUP110107	4	at gravel (FA)/Native interface
1420	1065EX360RB361		Equip blank
NA	TB 110107		Trip blank
1440	1065EX 361 [4.5]	4.5	Under board that clay pipe sat on

Contractor Equipment Onsite:

Estimated volume excavated ≈ 4x5x5 **Site Plan Attached** (Yes) No

Truck Loads of Soil Off-Hauled Ø **Manifests/Bills of Lading Attached** Yes (No)

Imported Backfill Truckloads or Cubic Yards Ø **Bills of Lading Attached** Yes (No)

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02.4

Date: 11/1/07

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 705, Alberto onsite
Set up sampling station, Alberto performs vehicle checks
Calibrate PID, James onsite at 730
Safety Meeting 745
810- Begin sampling trench
Alberto is pumping water & putting gravel behind shoring, James picking up materials
1005 - Ryan onsite while I was prepping to collect sample 361
He questioned the sampling protocol (in regards to sample location & # of samples to be collected in trench) & wether trench should be considered as seperate or as part of the ex
He wants to discuss with Mary Jo & possibly have a meeting with Devender & Brian to determine # of samples, sample locations & decide on any further excavation of trench
No more sampling until I here from him or Mary Jo
May not run the samples I collected earlier (359 & 360)
Ryan Departs 1020
Redraw site map for trench area as it has changed a little with clean up (removing stuff)
Take photos of site & Log Photos taken earlier
1115 - Approx 12,000 gallons of water in holding tank
1130- receive voice mail from Ryan - he would like me to not use the samples I collected earlier - he considers the trench a continuation of the excavation & ~~would like~~ as such, would like to collect only one more sidewall sample on the north, one sample on the south sidewall, 1 bottom & level
We were treating the trench as a seperate trench that needs a sample every 20 linear feet - which would mean 2 North sidewall, 2 South SW, & 2 bottom samples

Ryan [redacted] 707-338-3223

Project Name: Building 1065 Area CAP Implementation **Job #** 408807S115 **Task:** 02.4

Date: 11/1/07

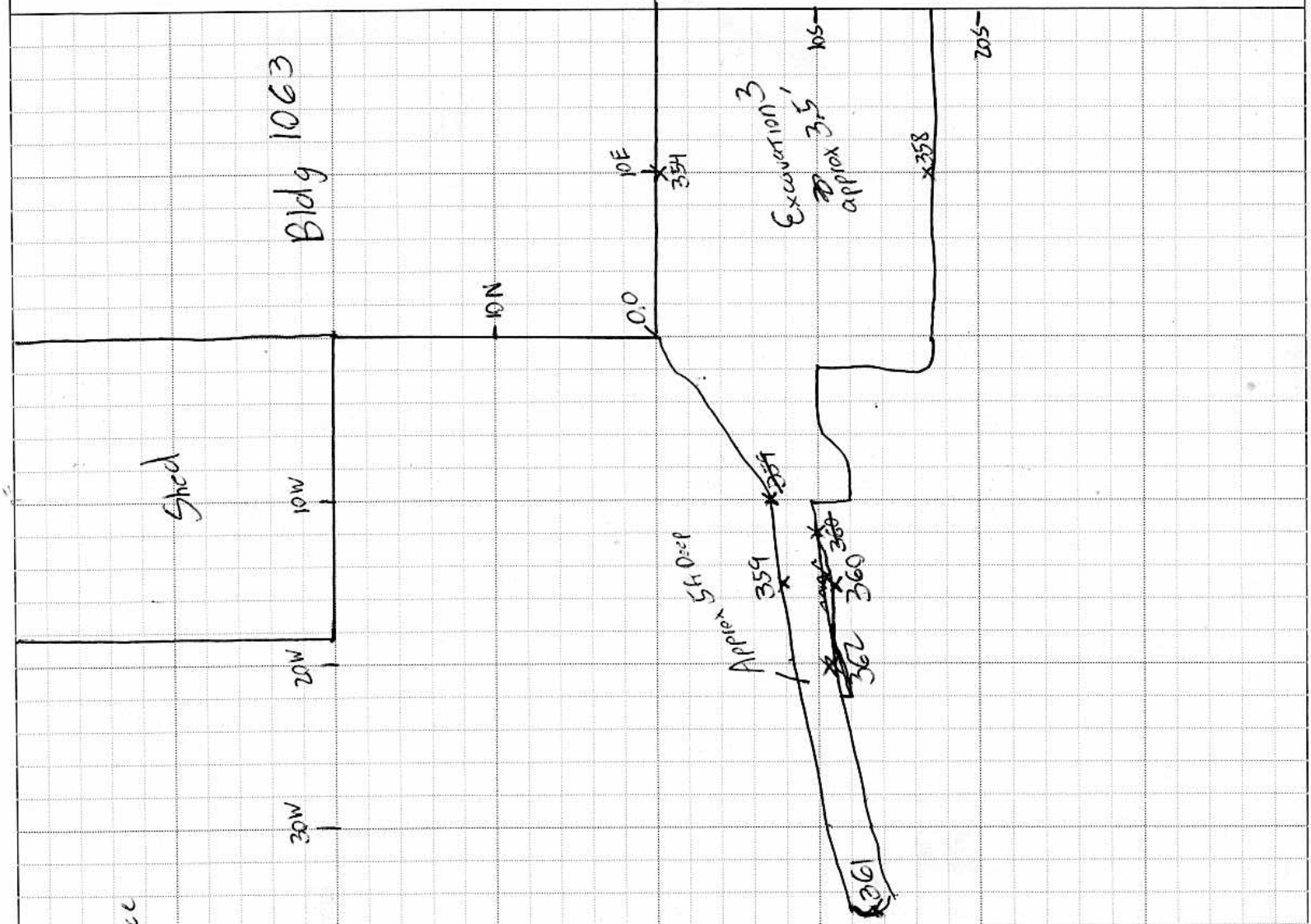
Notes by: Scott Graham

Materials onsite

Field Notes: Ryan feels that is too many samples + one bottom + one in each sw would be sufficient to evaluate to potential ~~see~~ contaminants in the soil
This would mean I would put the samples I collected earlier on hold or dispose of them + collect new samples
I call Mary Jo + leave her a voice mail on her home + cell lines to see if the # Ryan requested is sufficient
Want to make sure there is agreement before proceeding either way
1220 - Received another call from Ryan he would like me to proceed treating the trench as part of the excavation, he suggested throwing out the samples I collected earlier + restarting the numbering, Put samples on Standard TAT
1225 - Called Mary Jo + left her a voice mail to let her know what is going on + proceed with sampling
1310 - Receive call from Mary Jo - she is checking contingency plan
1340 - Recive call from Mary Jo - proceed as indicated by Ryan
Collect samples 359-362, + MS/MSD, DUP + Equipment Blank
359 (North Sidewall) + MS/MSD, 360 (South SW) + Dup, 361 (West end + SW), 362 (Bottom)
Map Sample Locations
Tony called - He is not scheduled for pickup today - Call C+T to check on courier that was supposed to be here at 3pm - is now 3:30
Tony will now be here at 4pm - he is here at 1555 - sample picked up
Alberto securing site for weekend, James Departed at 1500
All Depart 1630

MACTEC
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 4088075115 SHEET 1 OF 1
PHASE _____ TASK 02.4
JOB NAME Bldg 1063 - Excavation 3
BY Scott Graham DATE 11/1/07
CHECKED BY _____ DATE _____



PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Week Ending: November 8, 2007

Summary of Work Performed

November 5, 2007

- ERRG excavated soil from Area 3 down to Bay Mud at approximately 6 to 7 ft bgs.
- Soil at 4 feet bgs displayed a strong odor.
- A 12 inch diameter clay pipe (with wood beneath) was encountered at 4 ft bgs; appeared to run east to west from the former sump location.
- Placed gravel behind the shoring panels.
- Continued dewatering the excavation.
- Extended and bermed the stockpile area.
- Site visit by Presidio Fire Department to evaluate building sprinkler system.
- Site visit by Pribuss Engineers to develop bid for sprinkler system re-route.

November 6, 2007

- On the basis of analytical results from 1065DE210, Ryan Seelbach of the Presidio Trust authorized ERRG to discharge water from the water storage tank to the sanitary sewer.
- ERRG pumped water from the holding tank through a sock filter into the sanitary sewer manhole located at the southeast corner of Excavation 3. The average rate of discharge was approximately 69 gallons per minute.
- Continued excavating Area 3 to Bay Mud.
- Finished placing gravel behind the shoring panels.

November 7, 2007

- Continue dewatering Excavation 3.
- Collected samples 1065EX363, 1065EX364, and 365 from the bottom of Excavation 3.
- Continue discharging by gravity flow to sanitary sewer.
- Continue excavating to Bay Mud.
- Electrical safety inspection by Presidio Trust electrician.

November 8, 2007

- ERRG cleaned out soil under spreaders.
- Completed excavation in Area 3.
- Concrete and asphalt loaded for recycling.

Issues and/or Scope Deviations and Resolution

- None identified.

Project Milestones Achieved

- Completed excavation and confirmation sampling of Area 3.

Work planned:

- Begin excavating Area 2 on north of Building 1063.

Discussion Points for Next Stakeholder Meeting

- Analytical results from confirmation soil samples.
- Adequacy of sampling within Excavation 3.

Attachments

1. November 5, 6, 7, and 8, 2007 Field Daily Logs
2. Photographs
3. Summary of soil confirmation sampling results
4. Level II data validation reports
5. Site plan

Excavation of western end of Excavation 3, view looking west.

Gravel placed between shoring and south wall of Building 1063, view looking east.

East sidewall of Excavation 3, depth 4 to 6 feet bgs, view looking northeast.

Excavation 3, showing groundwater in west end of excavation, view looking east.

Discharge to sanitary sewer on November 6, 2007, showing filter, and discharge set up, view looking south.

Filter and inlet into holding tank, view looking south.

Shallow storm drain pipe leading into the west side of Excavation 3, view looking northeast.

Covered soil stockpile on November 8, view looking northeast.

Excavation Area 3 as completed on November 8, 2007, view looking west.

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Week Ending: November 16, 2007

Summary of Work Performed

November 12, 2007

- ERRG excavated soil from Area 2 down to 7 feet bgs.
- MACTEC collected sidewall and bottom samples from Area 2 and submitted them to the laboratory.
  .
- Continued dewatering excavation Area 3.
- MACTEC sketched east, west, and north excavation sidewalls of Area 3 and west sidewall of Area 2.
- Total of 29,300 gallons discharged since start of job (totalizer reading 5,186,100)

November 14, 2007

- ERRG conducted over-excavation of southern sidewall, west side of the excavation Area 3 near the reported exceedance (1065Ex360) to approximately 12 feet south of the building (one foot removed).
- MACTEC collected a sample of the IA gravel at the new sidewall (all native/old fill materials removed from this area)
- MACTEC collected a sample of the eastern sidewall of Area 3 near previous soil sample 1065Ex357[4.0] which had a reported exceedance for acetone. Sample was put on hold pending data validation of 1065Ex357[4.0]
- Total of 40,600 gallons discharged since start of job (totalizer reading 5,197,400)

Issues and/or Scope Deviations and Resolution

- None identified.

Project Milestones Achieved

- Completed excavation and confirmation sampling of Area 2 and overexcavation of Area 3.

Work planned:

- Over excavate east and west sidewalls and bottom of excavation Area 2 on the north side of Building 1063.

Discussion Points for Next Stakeholder Meeting

- Analytical results from confirmation soil samples.

Attachments

1. November 12 and 14, 2007 Field Daily Logs
2. Photographs
3. Summary of soil confirmation sampling results
4. Level II data validation reports
5. Site plan

Excavation Area 2 – Looking at northwest corner from southeast corner, excavation approximately 7 feet deep

Excavation Area 2 – Looking at southeast corner from northwest corner, excavation approximately 7 feet deep

West end of Excavation Area 2, Looking East, showing south sidewall (right side) that has been expanded to the gravel from the IA excavation, Bottom of excavation approximately 6 feet bgs, partially filled with gravel

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Weeks Ending: November 23 and 30, 2007

Summary of Work Performed

WEEK ENDING NOVEMBER 23, 2007

November 19, 2007

- No field work performed.

November 20, 2007

- No field work performed.
- Teleconference call held with MACTEC, Trust, ERRG, and Water Board to discuss analytical results for over-excavation of the western end of Excavation 3 and initial confirmation sample results from Excavation 2.

November 21, 2007

- ERRG excavated additional soil from the north, east, and west sidewalls of Excavation 2. Approximately 1.5 feet of soil was removed from the northern and eastern sidewalls and 2.5 feet of soil was removed from the western sidewall.
- MACTEC collected sidewall samples 1065EX346, 1065EX347, and 1065EX348 from Excavation 2 and submitted them to C&T on a 48 hour TAT for TPH fuel oil, TPH diesel, and PAHs.
- Pump not in operation. Totalizer reading 5,199,600.

November 22 and 23, 2007

- No field work performed.

WEEK ENDING NOVEMBER 30, 2007

- No field work performed.

Issues and/or Scope Deviations and Resolution

Issue

- Elevated levels of polynuclear aromatic hydrocarbons (PAHs), specifically benzo(a)pyrene, detected in sidewall samples from Excavation 2 may be related to contaminated fill associated with Fill Site 6B and not from releases from FDS lines or the former USTs. Excavation 2 is near the investigation area for Fill Site 6B. The Water Board can only direct remediation of petroleum related contamination and that fill-related contamination should be addressed by DTSC.

Resolution

- The Trust will over-excavate soil at the location of the sample containing TPH fuel oil above the cleanup level and will remove soil from the sidewalls where benzo(a)pyrene exceeded cleanup levels and collect confirmation samples. If this one round of over-excavation does not remove soil containing PAHs above cleanup levels, then the Trust will consider addressing this area as part of Fill Site 6B. The Trust will discuss this approach with DTSC (Bob Boggs).

Project Milestones Achieved

- Excavated additional soil from the western, northern, and eastern sidewalls of Excavation 2 and collected confirmation soil samples.

Work planned:

- Backfill Excavation 3 and Excavation 2 if confirmation results from Excavation 2 over-excavation show TPH below cleanup levels.

Discussion Points for Next Stakeholder Meeting

- Confirmation soil sample analytical results from over-excavation of Excavation 2.

Attachments

1. November 21, 2007 Field Daily Logs
2. Photographs
3. Minutes, Weekly Progress Meeting, November 20, 2007

Daily Field Log Sheet 1 of 2

Project Name: Building 1065 Area CAP Implementation Job # 4084075115 Task: 02.4

Date: 11/21/07

Project Location: Bldg 1063 - Excavation Area 2

Notes by: Scott Graham

Onsite Personnel: James, Paul, Tyson

Site Visitors:

Weather: Clear & Cold

Site Conditions & Safety Considerations: Slips/Trips/Falls, Open Excavation, Heavy equipment

Monitoring Equipment Used: Microtip HL-2000 Calibration Date 11/21/07

Calibrate using 100ppm Isobutylene

Number of samples collected: Soil: 3 Water:

COCs Attached	(Yes)	No
Sample Location Map Attached	(Yes)	No

Time Collected	Sample ID	Depth	Notes
945	1065Ex346 [5.0]	5'	+MS/MSD
950	1065Ex347 [5.0]	5'	
1000	1065Ex348 [5.0]	5'	

Contractor Equipment Onsite: Mini-Excavator; 5yrd dump truck; Bobcat

Estimated volume excavated ≈16 yards

Site Plan Attached (Yes) No

Truck Loads of Soil Off-Hauled Ø

Manifests/Bills of Lading Attached Yes (No)

Imported Backfill Truckloads or Cubic Yards Ø

Bills of Lading Attached Yes (No)

Daily Field Logs Sheet 2 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 403407.5115 **Task:** 02.4

Date: 11/21/07

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 640

Paul onsite 645, James onsite 7am, Tyson onsite 725

Attend tailgate safety meeting

Calibrate PID

Toxhizer Reading : 5,199,600, pump not currently operating

Groundwater in Excavation 3 is at approx 6' bgs

745 - Begin overexcavation of Area 2 in the North, East + West directions

Extend excavation 1 foot to the North + East, + 2 feet to the west

Actual was 1.5' to North + West + 2.5 feet West

Finish overex at 930 - collect sidewall samples 945 - 1000

from excavator bucket

Clean up + load equipment

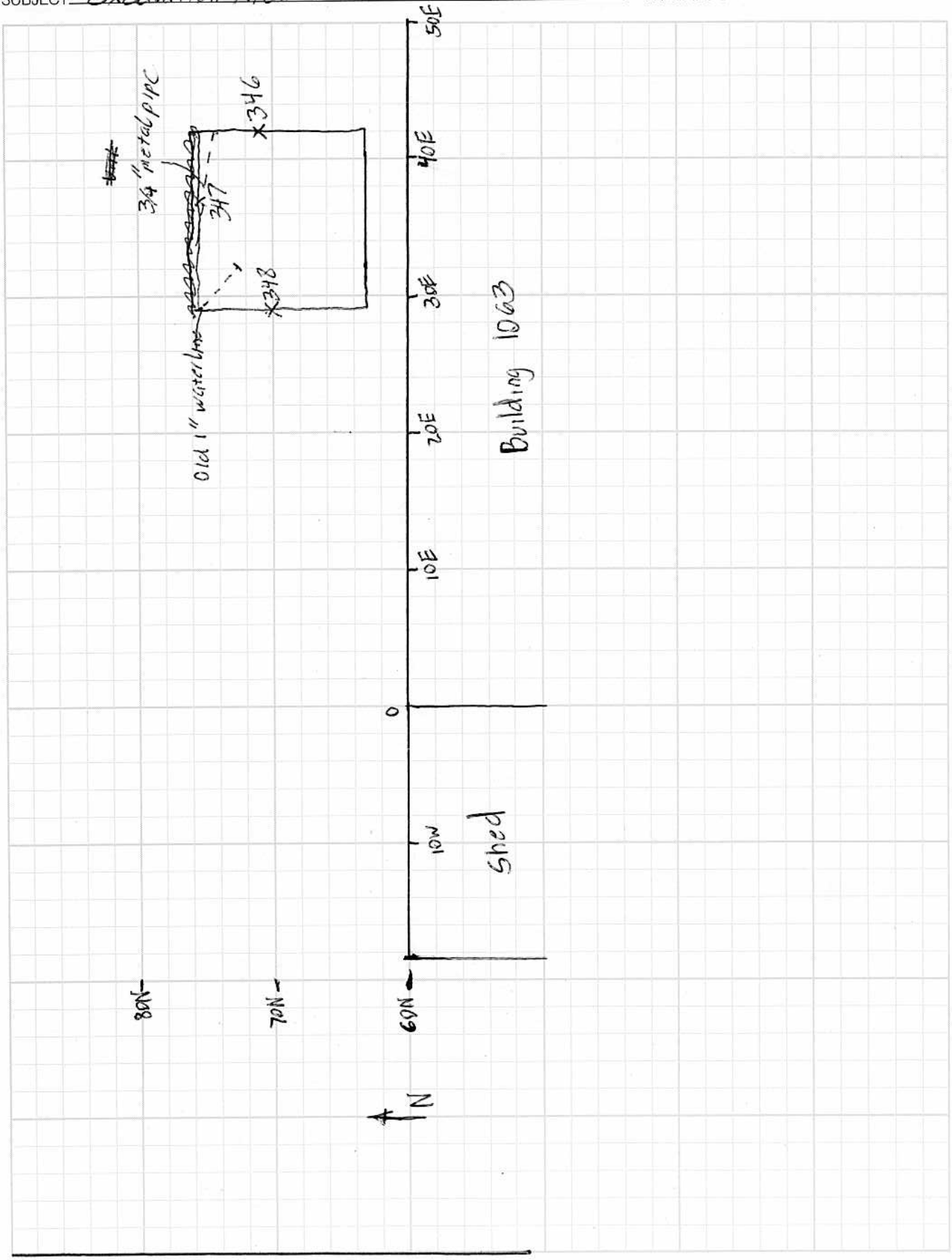
Leave ice chest onsite in Connex box, Courier scheduled for pickup at noon, James (ERRG) will meet him

Depart site 1030

Harding Lawson Associates
Engineering
and
Environmental Services

SHEET 1 OF 1
JOB NO. 40840751.15 02.4
DATE 11/27/07
COMPUTED BY Scott Graham
CHECKED BY

PROJECT
SUBJECT Excavation Area 2



Northwest Corner of Excavation 2.

Southeast corner of Excavation 2.

MINUTES
WEEKLY PROGRESS MEETING
BUILDING 1065 AREA CAP IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
November 20, 2007

Attendees: Ryan Seelbach and Genevieve Coyle, Presidio Trust
Devender Narala, Regional Water Quality Control Board
Tyson Appel, ERRG
Scott Graham and Mary Jo Heassler, MACTEC
Meeting held by teleconference.

Purpose of Meeting: Update on status of remedial construction and results of excavation confirmation sampling at the Building 1065 Area - (vicinity of Building 1063).

Discussion Points

- Distribution of progress report for the week ending November 16, 2007 and analytical results for excavation confirmation sampling (provided by e-mail as a figure showing sample locations and results for samples and analytes with detected concentrations exceeding cleanup levels).
- Sidewall of Excavation 3 was over excavated at the location of the duplicate sample from sample 1065EX360 which contained TPH as fuel oil (fo) at 400 mg/kg, exceeding the cleanup level of 160 mg/kg.
- The confirmation soil sample collected from the over-excavated sidewall (1065EX367[4.0]) showed that TPHfo was detected at 5.6 mg/kg, indicating that soil containing TPHfo above cleanup levels had been removed from the western portion of Excavation 3.
- Soil on the north sidewall of Excavation 3 where TPHfo, diesel, and gasoline exceed cleanup levels will be removed when soil is excavated from Area 1.
- D. Narala indicated that once soil had been over-excavated that the sample exceedance shown on the figure should not be shown with highlighting.
- Soil was excavated from Area 2 and confirmation sampling shows that detected concentrations of the polynuclear aromatic hydrocarbon (PAH) benzo(a)pyrene and TPH fuel oil are above cleanup levels in three sidewall samples. PAHs may be related to contaminated fill associated with Fill Site 6B.
- Excavation 2 is near the investigation area for Fill Site 6B. Sampling to date at Fill Site 6B shows TPHfo below 200 mg/kg and similar concentrations of PAHs.
- T. Appel indicated that the fill material in Excavation 2 was different from that encountered in Excavation 3 on the south side of the building.
- D. Narala indicated that the Water Board would only direct remediation of petroleum related contamination and that fill related contamination should be addressed by DTSC.
- It was agreed that the Trust would over-excavate soil at the location of the TPHfo exceedance and would remove 1 to 3 feet of soil from the sidewalls where benzo(a)pyrene exceeded cleanup levels and collect confirmation samples. If this one round of over-excavation did not remove the PAH exceedances, then the Trust would consider addressing this area as part of Fill Site 6B. The Trust would discuss this approach with DTSC (Bob Boggs).
- Confirmation samples collected from the over-excavated area would be analyzed for the suite of compounds which showed the exceedance - TPH fuel oil and diesel and PAHs.

Agreements:

- The north west and east sidewalls of Excavation 2 will be over-excavated and confirmation samples will be analyzed for TPHfo, TPHdiesel, and PAHs.
- The figure will be revised so that the over-excavated samples will not be identified with highlighting.
- The Trust will discuss with DTSC the plan to include the northern of the site into Fill Site 6B.

Action Items

MACTEC

- MACTEC will observe and collect confirmation samples from Excavation 2 on November 21, 2007.
- The figure will be revised so that over-excavated samples are not highlighted.

Trust

- Discuss the plan to include the northern part of the site as Fill Site 6B with DTSC.

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Week Ending: December 7 and 14, 2007

Summary of Work Performed

WEEK ENDING DECEMBER 7, 2007

- No field work performed.

December 7, 2007

- Conference call with Water Board and DTSC to discuss confirmation analytical results and request to backfill Excavations 2 and 3. Based on meeting, Excavations 2 and 3 can be backfilled. DTSC suggested that filter fabric be placed on the west sidewall where confirmation samples show polynuclear aromatic hydrocarbons (PAHs) above cleanup levels. Following completion of petroleum cleanup, the Fill Site 6B boundary will be re-drawn to include the west sidewall sample and any others that exceed for non petroleum compounds that are left in-place.

WEEK ENDING DECEMBER 14, 2007

December 12, 2007

- ERRG oversaw the pre-backfill survey of the excavation dimensions and soil sample locations for Excavations 2 and 3.
- Pump not operating. Water level at approximately 6 feet below ground surface (bgs) in Excavation 2 and 5 feet bgs in Excavation 3.
- Total of 47,578 gallons discharged since start of job (totalizer reading 5,204,378).

December 14, 2007

- Technical meeting to develop strategy for addressing residual contamination in sidewalls of Excavation 3 and potentially excavation at Area 1. Summary of pertinent issues summarized below.

Issues and/or Scope Deviations and Resolution

Some contamination may be left in place in soil north of the limits of Area 1 excavation (planned excavation inside of Building 1063). A technical meeting was held on December 14, 2007 to evaluate options to address petroleum impacted soil that may potentially be left in place west of Area 1. These options included:

1. Application of ORC on the north sidewall of Excavation 3 by mixing ORC with backfill
2. Installation of perforated piping along the northern wall of Excavation 3 prior to backfilling; and injection of ORC after backfilling and excavation of soil from Area 1, as necessary
3. Injection of ORC west of Area 1 by direct push methods, as necessary after excavation of soil from Area 1.

Option 3 was considered the most effective approach as application through direct push injection will distribute ORC directly into affected soil. In addition, after completion of excavation of soil from Area 1, there will be a better understanding of the location and extent of residual contamination, and there will be an opportunity to evaluate the need for ORC application if residual hydrocarbon contamination remains above cleanup levels in soil in Area 1.

Project Milestones Achieved

- Completed pre-backfill survey of excavation dimensions and soil sample locations for Excavation Areas 2 and 3.

Work planned:

- Backfill Excavations 2 and 3.

Attachments:

- Field Notes, December 12, 2007

Daily Field Log Sheet 1 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02.4

Date: 12/12/07

Project Location: Area 2 & 3 Excavations

Notes by: Scott Graham

Onsite Personnel: James

Site Visitors:

Weather: Clear & Cold

Site Conditions & Safety Considerations: Slips/Trips/Falls, Open Excavation

Monitoring Equipment Used: NA **Calibration** **Date**

Number of samples collected: Soil: Ø Water: Ø

COCs Attached	Yes	No
Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite:

Estimated volume excavated Ø	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards Ø	Bills of Lading Attached	Yes	No

Daily Field Logs Sheet 2 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02.4

Date: 12/12/07

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite @ 930

No work since last visit

Water in Excavation at aprox 5' bgs in Ex Area 2 + 6' bgs in Ex Area 2

Totalizer Reading at: 5,204,378 gallons

945 - James calls surveyor - he forgot about appointment - can be here a 130pm

Discuss Job with James - Give him a map + sample tracking sheet to give to the surveyor

Call Mary Jo + leave a Message to see if I need to come back at 130

Depart 1005

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Weeks Ending: December 21 and 28, 2007 and January 4 and 11, 2008

Summary of Work Performed

WEEK ENDING DECEMBER 21, 2007

DECEMBER 17, 2007

- ERRG set up sump pump in Excavation 3 and began pumping to draw down water before backfilling.

DECEMBER 19, 2007

- ERRG installed woven filter fabric on the north side of Excavation 3 to demark the northern excavation limits prior to backfill
- MACTEC collected a sample from the sediment inside the 12-inch diameter clay pipe. The pipe formerly connected to the sump removed from Excavation 3. The pipe runs west into the parking lot which is used as the soil management area. Sample was submitted to the laboratory for analysis for all site chemicals of concern. Pipe was capped with concrete before backfilling.
- Cleaned out westernmost area of Excavation 3 (outside of the shoring) which had partially collapsed and slumped.
- Drain rock was laid in the excavations (Excavations 2 and 3) to bridge the groundwater in the bottom of the excavation (from total depth to approximately 5 to 6 feet bgs).
- Placed AB (road base) on top of drain rock in westernmost section of Excavation 3 in 8-inch lifts with 95% compaction.
- Water pumped from excavation. Totalizer reading at 5,219,900 gallons (total purged since start of project is approximately 63,100 gallons).

DECEMBER 20, 2007

- No work performed due to heavy rains the night and morning of December 19, 2007.

DECEMBER 21, 2007

- Competed backfill and compaction of westernmost portion Excavation 3 outside of the shored area.
- Backfilled westernmost 20-foot shoring section with AB in 6-inch lifts to a minimum of 95% compaction.
- No water pumped from excavation. Holding tank approximately 25% full.
- Totalizer reading at 5,239,840 gallons (total purged since start of project is approximately 83,040 gallons)

WEEK ENDING DECEMBER 28, 2007

DECEMBER 24, 2007

- ERRG attempted to continue backfill activities in Excavation 3, but AB material exceeded optimal moisture content for proper compaction.
- ERRG spread backfill material out south of Excavation 3 to dry.

DECEMBER 25, 2007

- No work performed due to the holiday.

DECEMBER 26, 2007

- Top 8-inches of backfill that was spread out was sufficiently dry to use as backfill. The remaining backfill was too wet for proper compaction.
- ERRG used what backfill material was sufficiently dry to backfill the western end of Excavation 3 (between the shoring) to approximately one foot bgs and removed the westernmost section of shoring.
- ERRG began compacting the next shoring section. Excavation was backfilled to approximately 4 feet bgs.
- More AB material was needed to complete backfilling of Excavations 2 and 3. Quarry was closed until January 2nd. Backfilling activities were put on hold until January 2nd when more backfill material can be delivered.
- Pump was removed from excavation and holding tank was empty. Total of 90,044 gallons discharged since start of project (totalizer reading 5,246,844).

DECEMBER 27, 2007

- Fire suppression system reroute scheduled to begin inside the building. Re-route expected to take 2 to 3 days to complete.

WEEK ENDING JANUARY 4, 2008

- Short work week due to holiday and rain.
- Quarry reopened on January 2 and began making deliveries of road base.
- Backfilled and compacted Excavation 2 to 4-inches bgs.
- Continued to place and compact backfill in Excavation 3.
- Pribuss began work activities within the building to reroute the sprinkler system.
- Major storm on Thursday which limited backfill work.

WEEK ENDING JANUARY 11, 2008

JANUARY 7, 2008

- ERRG personnel visit site at various times throughout the weekend to monitor the storm effects and pump water out of the excavation.
- Backfill attempted on Monday but backfill material exceeded the optimal moisture content for proper compaction.
- Repaired storm drain controls, stock pile covers, fencing, etc. that had been damaged in the storm.
- Pribuss completed the sprinkler system reroute.

JANUARY 8, 2008

- Shoring box removed from shoring cell #2 (2nd from the west side of Excavation 3)
- Begin to remove remaining portions of the mezzanine.

JANUARY 9, 2008

- Demolition of mezzanine completed.
- Loaded and removed two shoring boxes from site (removed from Excavation 3 earlier in the week).

JANUARY 10 and 11, 2008

- Erected shoring towers inside the building.
- MACTEC collected a sample of the drain rock and road base material from the Wilson Quarry in Aromas for a compaction curve and laboratory tests for possible use as backfill material in Excavation 1. Sample submitted to Curtis and Tompkins to be analyzed for TPHg, TPHfo, TPHd, and BTEX using EPA Test Method 8015 and Title 22 metals using EPA Test Method 6010C plus 7471A for mercury, and pesticides and herbicides by EPA Methods 8081A, 8141A, and 8151A.
- General housekeeping performed.

Issues and/or Scope Deviations and Resolution

- Work delayed because of wet weather conditions and backfill material exceeding optimal moisture content for compaction
- Addition backfill materials unavailable until quarry re-opened on January 2, 2008. Backfill work was put on hold until more backfill materials delivered to site.

Project Milestones Achieved

- Backfill and compaction complete for westernmost section of Excavation Area 3 outside of the shoring, and the first 20-feet of shoring on the west side.
- Backfill and compaction complete for Excavation 2.
- Sprinkler reroute complete.

Work planned:

- Continuation of backfill and compaction activities in Excavation 3.
- Continue shoring building and replacing support columns.

Excavation a 3 – Looking west from eastern end of excavation. Groundwater at approximately 5 feet bgs.

Excavation 3 – Sediment sampled inside 12-inch diameter clay pipe on the westernmost end of the excavation area.

Excavation 3 – From east end looking west. Showing filter fabric and placement of drain rock at the bottom of the excavation.

Excavation a 3 – From east end looking west. Showing filter fabric and final placement of drain rock (approximate depth 5 feet bgs).

Excavation 3 – Former area of the westernmost shoring section, area now backfilled and shoring removed.

Excavation 3 – From the holding tank looking northeast. Showing Excavation area 3 as of December 26, 2007.

Daily Field Log

Sheet 1 of 2

Project Name: Building 1065 Area CAP Implementation Job # 408407515 Task: 02.4

Date: 12/19/07

Project Location: Bldg 1063 Ex Areas 2+3

Notes by: Scott Graham

Onsite Personnel: James, Alberto, Tyson, Derek (operator), Rafael

Site Visitors:

Weather: Clear & mild

Site Conditions & Safety Considerations: Slips/Trips/Falls, Heavy Equipment, Open Excavation

Monitoring Equipment Used: None Calibration Date

Number of samples collected: Soil: 1 Water: Ø

COCs Attached	(Yes)	No
Sample Location Map Attached	Yes	(No)

Time Collected	Sample ID	Depth	Notes
845	106550100 [5.5]	5.5'	MS/MSD

Contractor Equipment Onsite:

Estimated volume excavated Ø	Site Plan Attached	Yes (No)
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes (No)
Imported Backfill (Truckloads) or Cubic Yards 1 of Drain Rock, 11 of aggregate base	Bills of Lading Attached	Yes No

Daily Field Logs Sheet 2 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 408407.5115 **Task:** 02.4

Date: 12/19/07

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 730 - Discuss job

Lay filter fabric on North side, bridge water with drain rock + top with AB, remove shoring as we go

ERRG just received approval for the sprinkler system reroute - scheduled for next week

totalizer for discharge at 5,215,900 at 800 - They have been pumping water from Ex 3 for the last 2 days - It is down approx 6"

800 - hook up trash pump for faster water removal (was using small sump pump)

815 - S+S Trucking Unloads a load of Drainrock

825 - 1st Load of Base Rock Delivered

830 - Begin Digging out West end of Ex 3 to get a sample from inside the clay pipe traveling west into the parking lot

820 Attend site safety meeting

835 - 2nd load of Base rock - Loads of Base rock delivered today while I am present 730-130p +2 more as leaving

845 - collect sample from west end of Ex 3 in pipe → 106550-100 [5.5] 13S 35W 5.5' deep

Call Mary Jo to get sample Number

935 - Use woven filter fabric to cover North side of Ex 3 prior to backfill

1020 - Finish handing filter fabric

11am - Begin Backfilling hole with drain rock - East to west to above water 5.5-6ft bgs

1230 - UltraEx (Courier) onsite to pick up sample

ERRG will clean out stuff from west side, re-cap the pipe with concrete (2 bags mixed + poured) + begin laying base rock from west to the east plan to finish overex area + 1st shoring section to just below grade 1st Then move to next section + remove shoring as they go

1250 - totalizer: 5219,900 Depart site

Daily Field Log Sheet 1 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 408407S115 **Task:** 02.4

Date: 12/21/07

Project Location: Bldg 1063 Excavation Areas 2 & 3

Notes by: Scott Graham

Onsite Personnel: Derek, Alberto, James, Rafael

Site Visitors:

Weather: Clear & Mild

Site Conditions & Safety Considerations: Open Excavation, Heavy Equipment, Slips/Trips/Falls

Monitoring Equipment Used: NA **Calibration** **Date**

Number of samples collected: Soil: Ø Water: Ø

COCs Attached	Yes	No
Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite: Excavator, Bobcat, remote controlled compactor 5-yard dump truck

Estimated volume excavated Ø	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards	Bills of Lading Attached	Yes	No

Daily Field Logs Sheet 2 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 4084075115 **Task:** 02.4

Date: 12/21/07

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 1030

Western end of Ex 3 is filled + compacted (outside of shoring)

Current working on Westernmost section of shoring (currently at approx 3' bgs)

Ex 2 filled with gravel (Drain rock) to approx 4' bgs

Discuss job with Tamcs - They brought drain rock to above water + are doing 8" lifts with the Base Rock

They will be working Monday + Plan on the Sprinkler system being removed next Wed-Fri, with building shoring starting the following week

1100 - totalizer reading 5,239,840 gallons

tank approx ¼ full - ~~water~~ pumping done

Take pictures of site

96% compaction on 1st lift

1125 Depart Site

Daily Field Log Sheet 1 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511.5 **Task:** 02.4

Date: 12/26/07

Project Location: Bldg 1063 Excavation Areas 2+3

Notes by: Scott Graham

Onsite Personnel: none

Site Visitors: Caltrans workers marking site for Doyle Drive Geophysics

Weather: Clear + Cool

Site Conditions & Safety Considerations: Slips/trips/falls

Monitoring Equipment Used: NA **Calibration** **Date**

Number of samples collected: Soil: Ø Water: Ø

COCs Attached	Yes	(No)
Sample Location Map Attached	Yes	(No)

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite:

Estimated volume excavated Ø	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards Ø	Bills of Lading Attached	Yes	No

Daily Field Logs Sheet 2 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 408407S115 **Task:** 02.4

Date: 12/26/07

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 1000

No work currently taking place - no workers onsite
totalizer reading: 5,246,844 - not currently discharging
Westernmost 20' of Ex 3 backfilled to approx 1.5' bgs & shoring removed - 2nd segment at approx 4' bgs & 3rd & 4th at approx 5' bgs
No addl' work done to Ex Area 2 since I was last here
Holding tank is empty
Take pictures of site
Caltrans workers onsite to mark USA for boring locations for geophysics work related to the Doyle Drive work
1030 Hertz onsite to exchange the remote controlled compactor - remote didn't work on the old one
Called James to discuss work - They worked a ½ day on Monday because the AB was too wet & would not compact
They spread it out next to the ex TB let it dry out & retrieved this morning but only the top 8" was dry enough to work with
They need to get more AB shipped but the quarry is shut down until next Wednesday - no more work until then
The sprinkler reroute is scheduled to start tomorrow
Depart 1040

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Weeks Ending: January 18 and 25, and February 1, 2008

Summary of Work Performed

WEEK ENDING JANUARY 18, 2008

- Completed placement and compaction of backfill to the ground surface in Excavations 2 and 3. Backfill compaction tests met project specifications.
- Completed installation of shoring for the northernmost row of four building support columns.

WEEK ENDING JANUARY 25, 2008

- Placed asphalt over backfilled Excavation 2
- Excavated soil to 10 feet bgs beneath the northernmost row of building support columns
- Collected soil samples at 8.5 feet bgs from the two centermost column excavations and submitted the samples to Curtis and Tompkins for analysis for TPHd, TPHfo, TPHg, and BTEX, arsenic, and lead. Arsenic and lead were analyzed on standard TAT. TPHfo, TPHg, and BTEX were analyzed on 48 hour TAT.
- Laboratory analysis of the two soil samples indicated that concentrations of TPHfo, TPHg, and BTEX in soil at 8.5 feet bgs in the center of the northernmost row are below site cleanup levels

WEEK ENDING FEBRUARY 1, 2008

- Placed sono tubes and poured concrete supports for the northernmost row of 4 columns
- Tested concrete (min compressive strength) and obtained approval to remove the shoring.

Issues and/or Scope Deviations and Resolution

- Odor was noted in soil excavated for the northernmost column supports and samples were collected beneath two columns at depths of 8.5 feet bgs and analyzed for a limited suite of COCs including TPHd, TPHg, TPHfo, BTEX, arsenic, and lead. The samples were analyzed to assess the potential maximum depth of contamination at the northern limits of Area 1 and assess the depth at which the column supports should be installed so that there will be no limitations as to removal of contaminated soil at depth. The column supports were installed to 10 feet bgs in Bay Mud. Based on the analytical results for samples at 8.5 ft bgs, the supports are below the anticipated maximum depth of excavation.

Project Milestones Achieved

- Backfill and compaction complete for Excavations 2 and 3.

- Asphalt paving completed for Excavation 2.
- Northernmost row of 4 columns removed and supports installed in Bay Mud.

Work planned:

- Continue shoring and replacing support columns.

Attachments:

- Compaction Test Results
- Daily Field Log - January 22, 2008
- Sample Location Map
- Chain of Custody Form
- Soil Sample Results - Roof Support Footings, Building 1063

Daily Field Log Sheet 1 of 2

Project Name: Building 1065 Area CAP Implementation Job # 4084075115 Task: 02.4

Date: 1/22/08

Project Location: Bldg 1063 - Excavation 1

Notes by: Scott Graham

Onsite Personnel: James Medley, Derek,

Site Visitors:

Weather: Overcast + cold

Site Conditions & Safety Considerations: ~~Hot~~ Slips/Trips/falls, open holes, heavey equipment

Monitoring Equipment Used: NA Calibration Date

Number of samples collected: Soil: 2 Water:

COCs Attached (Yes) No

Sample Location Map Attached (Yes) No

Time Collected	Sample ID	Depth	Notes
1430	1065EX301 [8.5]	8.5	
1510	1065EX302 [8.5]	8.5	

Contractor Equipment Onsite: mini-excavator, bobcat, roof shoring, 5-yrd dump trucks

Estimated volume excavated (4x4x8.5)x3 = 408ft³ x 1.5 (sl/ft) Site Plan Attached Yes No

/27 ≈ 23 yrds

Truck Loads of Soil Off-Hauled 0 Manifests/Bills of Lading Attached Yes (No)

Imported Backfill Truckloads or Cubic Yards 0 Bills of Lading Attached Yes (No)

Daily Field Logs Sheet 2 of 2

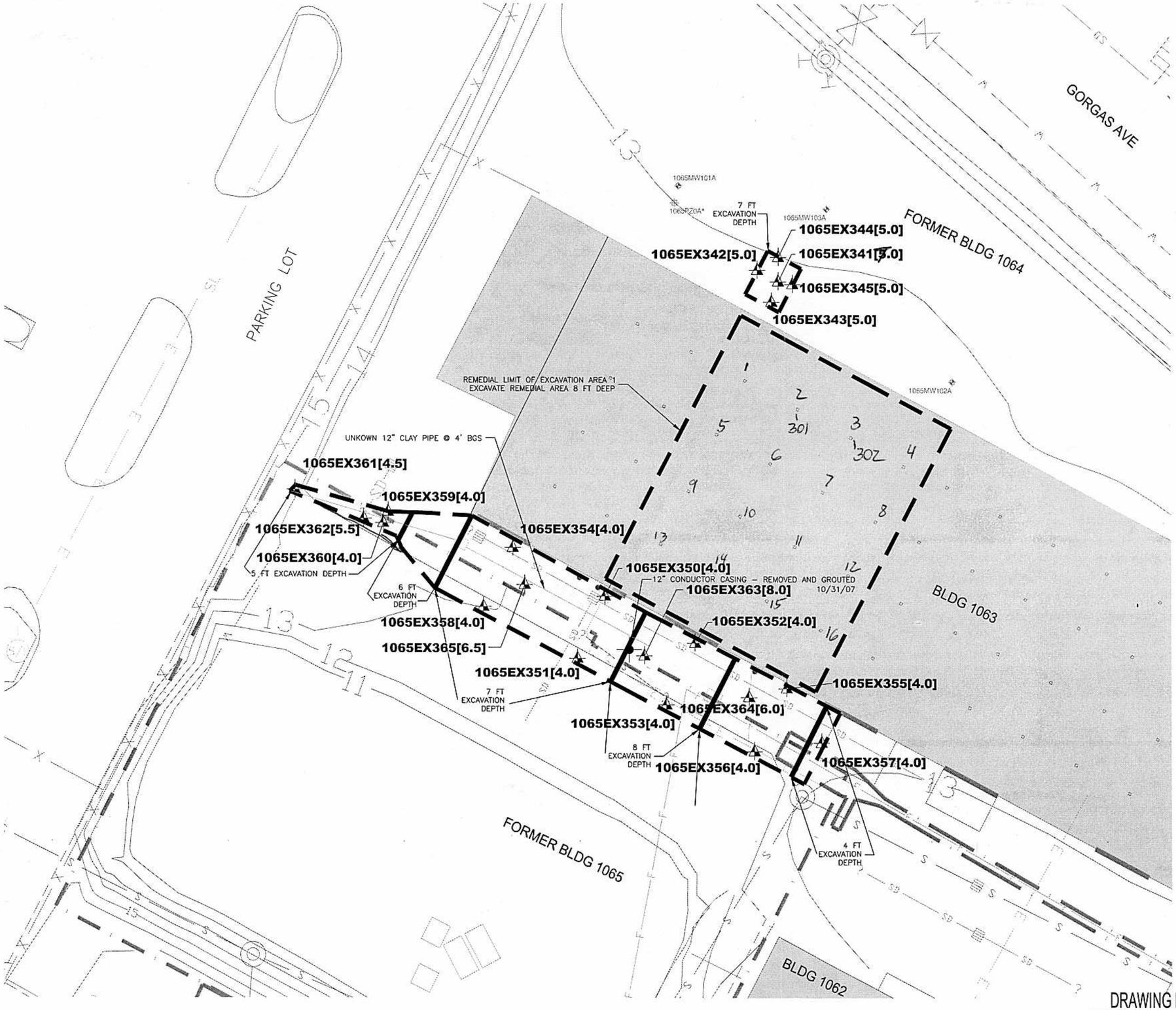
Project Name: Building 1065 Area CAP Implementation **Job #** 408~~9~~025115 **Task:** 02.4

Date: 1/22/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 1400 [8.5]
Collect sample 1065FX301 at 1430 at bottom of column 2- see map for column #s 49N 48E - 8.5' deep
Collect sample 1065Ex302 [8.5] at 1510 at bottom of Column 3 49N 60E - 8.5'
Courier onsite at 1530 to p/u samples
Totalizer 5,246,844 - no water currently in tank
All Depart at 1535
Back row (northernmost) has been shored + column 1, 2 + 3 have been cut + excavated to 8.5 ft bgs
Excavation 2 has been paved + Excavation 3 Backfilled to grade
take pictures of site



DRAWING REDUCED
REFER TO GRAPHIC SCALE

MACTEC
ENGINEERING & CONSULTING, INC.
28 Second Street, Suite 700
San Francisco, California 94105
(415) 543-8422

CORRECTIVE ACTION IMPLEMENTATION BUILDING 1065 AREA

OWNER
PRESIDIO TRUST
34 GRAHAM STREET
P.O. BOX 29052
SAN FRANCISCO, CALIFORNIA
(415) 561 - 5300

PROJECT NO:	4084075115
CAD DWG FILE:	C-104.DWG
DRAWN/DESIGN BY:	
CHECKED BY:	

This drawing is the property of MACTEC, Inc., including all patented and patentable features, and/or confidential information and its use is conditioned upon the user's agreement not to reproduce the drawing, in whole or part, nor the material described thereon, nor the use of the drawing for any purpose other than specifically permitted in writing by MACTEC, Inc..

SHEET TITLE

EXCAVATION PLAN

FIGURE 1

MACTEC

CHAIN OF CUSTODY RECORD

3836

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: ~~Presidio Trust~~ Building 1063
STREET ADDRESS:
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065
JOB NO.: 408407511502.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 1/22/08

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: BTEX 8260	TPHg 8260	TPH d+to-w-silica gel	Lead (As)	FOR LAB USE ONLY
1430	X		SO	1065EX301[8.5]		+MS/MSD	14	X	X	X	X	
1510	X		SO	1065EX302[8.5]			7	X	X	X	X	

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	RECEIVED BY:	DATE / TIME
(SIGNATURE)	1/22/08 1530	(SIGNATURE)	1/22 330	(SIGNATURE)	(SIGNATURE)	

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS: TPHg, BTEX, TPHd+to on 24 hr TAT
Arsenic + Lead on 5-day

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

Soil Sample Results - Roof Support Footings, Building 1063

January 22, 2008

Building 1065 CAP Implementation

			Analyte Cleanup Level	Benzene 0.005 mg/kg		Ethylbenzene 13 mg/kg		Toluene 1 mg/kg		Xylenes (m&p-) 33 mg/kg		Xylenes (o-) 33 mg/kg		TPH Diesel (C12-C24) 115 mg/kg		TPH Fuel Oil (C24-C36) 160 mg/kg		TPH Gasoline (C7-C12) 100 mg/kg		Arsenic 5.9 mg/kg		Lead 400 mg/kg	
Station Name	Sample Number	Location	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX301	1065EX301[8.5]	Bottom of Column 2	22-Jan-08	ND(0.0061)		ND(0.0061)		ND(0.0061)		ND(0.0061)		ND(0.0061)		**2.4**	**/Y**	**5.4**	**/J**	**7.9**	**/Y**	**2.8**		**6.9**	
1065EX302	1065EX302[8.5]	Bottom of Column 3	22-Jan-08	ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(0.0055)		ND(1.2)		ND(6.2)		**1.4**	**/Y**	**2.2**		**1.9**	

Qualifier Definition

J Estimated value

Y Sample exhibits chromatographic pattern which does not represent standard

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Weeks ending: February 8, 15, 22, and 29, 2008

Summary of Work Performed:

WEEK ENDING FEBRUARY 8, 2008

- Completed shoring of the building roof for the second row (from the north) of four building support columns
- Cut and removed building support columns.

WEEK ENDING FEBRUARY 15, 2008

- Excavated under second row of building support columns to approx. 9.75 ft bgs
- Installed sono tubes and poured concrete under the support columns
- Tested concrete for pour for first row of columns (three days required to set concrete).

WEEK ENDING FEBRUARY 22, 2008

- Removed shoring from second row of support columns and set up shoring for the third row.
- Excavated under support columns in third row to approx 9.75 ft bgs.
- Installed sono tubes and poured concrete (Friday).
- Concrete pour for second row of columns tested at 4,000 psi.

WEEK ENDING FEBRUARY 29, 2008

- Concrete pour for third row of building support columns tested at 4,000 psi.
- Removed shoring from third row of support columns and set up shoring for the last row.
- Excavated under columns of fourth (southernmost) row to approx 9.75 ft bgs.
- Installed sono tubes and poured concrete (Friday).
- Site meeting to discuss progress of work and plans for excavation.

Analytical Results:

- Attached are database reports presenting analytical results from 1) the sediment sample collected from the terra cotta piping at the western end of Excavation 3 on December 19, 2007 and 2) samples collected from potential backfill source material from Granite Quarry in Aromas, California on January 11, 2008.
- Analytical results from the sediment sample showed that the sediment in the piping contained TPH diesel (d), TPH fuel oil (fo), and TPH gasoline (g), lead, cadmium, polynuclear aromatic hydrocarbons (PAHs), and chloromethane at concentrations above site cleanup levels.

- Analytical results from the Aromas Quarry sample showed that pesticides and herbicides were not detected and metals, TPHd, TPHfo, and xylenes concentrations were below site cleanup levels. It is noted that TPHd was detected at concentrations just above the reporting limit and TPHfo and xylenes were reported as j-flagged values (reported at estimated concentrations below reporting limits). Analytical results show that the samples are suitable for backfill material below 18 inches bgs.

Issues and or Scope Deviations and Resolution:

Excavation Depth and Approach to Excavation of Area 1

- Analytical results for soil samples collected at 8.5 ft bgs from below concrete footings in the northernmost row of columns indicates that contamination in this area does not extend to Bay Mud (encountered in the northern column rows at approximately 9 feet bgs). Visibly impacted soil was observed by ERRG between 4 and 6 ft bgs when digging the footings for the column supports. Based on analytical results, it appears that excavation to Bay Mud may not be required in the northern portion of the excavation to remove contaminated soil.
- The plan for excavation of Area 1 (inside of Building 1063) is to excavate contaminated soil to depths of approximately 7 to 8 feet bgs beginning at the northern wall of Building 1063.
- Soil from the bottom of the excavation will be screened to verify that contamination has been removed before excavating soil in the southern part of Area 1 and prior to collecting bottom confirmation soil samples.

Clay Pipe in Excavation Area 1 (Inside of Building 1063)

- During excavation of one of the footings in the northernmost row of roof support columns, a 4- to 6-inch diameter clay pipe was encountered at approximately 7 ft bgs. Petroleum odor (aged gasoline) was noted in the soil; however it was not determined whether it was related to the piping (which was excavated). The pipe is believed to be an abandoned storm sewer line because it conveyed water into the excavation during recent rainfall events, although the line is not shown on Trust utility maps.
- During excavation of Area 1, the location and condition of the clay pipe will be documented (including where it exits the excavation area). The pipe will be plugged where it exits the excavation and possibly replaced during backfilling.

Contamination in sediment within terra cotta piping at western end of Excavation 3

- Analytical results for sediment samples show that sediment in the piping contains contaminants above site cleanup levels. Breaks or leaks in the lines could result in localized impacts to soil. The line appears to run west into the parking lot which serves as a soil stockpile staging area.
- The Trust plans to remove the piping and excavate soil around the piping and collect soil confirmation samples from below the piping. The piping will be removed following completion of Excavation 1, and sampling, profiling, and offsite disposal of stockpiled soil.

Project Milestones Achieved:

- Completed removal and replacement of 4 rows of columns within Excavation Area 1.

Work Planned:

First week of March

- Test concrete of the fourth row and remove shoring (Monday).
- Break up and remove remaining concrete cap of Excavation 1 (Monday).
- Begin excavating Area 1 (inside of Building 1063) on Tuesday, March 4, 2008. Excavate from north to south to remove visibly impacted soil and soil with elevated PID readings (anticipated depth of 7 to 8 ft bgs).

Discussion Points for Next Stakeholder Meeting (March 18, 2008)

- Status of Excavation 1 (further details concerning clay pipe, analytical data for additional confirmation samples, and observations during excavation)
- Plans for removal of terra cotta piping from parking area.

Attachments

- Concrete Compression Tests
- Sediment Sample Results, Terra Cotta Pipe - Excavation 3
- Analytical Results for Aromas Quarry Sample.

SMITH-EMERY COMPANY

An Independent Commercial Testing Laboratory, Established 1904

www.smithemery.com

781 East Washington Boulevard
P.O. Box 880550

Los Angeles, California 90021
San Francisco, California 94188

(213) 749-3411 Fax: (213) 741-8631
(415) 642-7326 Fax: (415) 642-7055

Project-Job: **64719-1**
PRESIDIO BUILDING 1063

1063 GORGAS AVENUE
SAN FRANCISCO, CA

Concrete Compression Test

Report #: **CTHR-1**

February 1, 2008
February 28, 2008
Page 1 of 1

Mailing Address:
SMITH-EMERY COMPANY
FILE COPY
P.O. BOX 880550
SAN FRANCISCO, CA 94188-0550

Distributed to:
ENGINEERING REMEDIATION RESOUR
THE PRESIDIO TRUST
SMITH-EMERY COMPANY

(ASTM Standards used C39,C231,C173,C138,C1064)

All tests performed by Smith Emery Engineer: William C. Wood Job Manager: 1069

Set # 1 Date made: **Tuesday, January 29 2008** Slump: **9.50** 28 Days Design Strength (PSI): **4,000**

Standard size Sampled By **2885** Temp (F) Conc./Air **59 /** Mix Design **70801P**

TruckTicket/Load# **1**

Sample Location: COLUMN FOOTINGS NORTH ROW

No.	Date of Test	Age (Days)	Height	Diameter	Area	Test Load (Lbs.)	Strength (PSI)	Fract.*	% of Design
1	02/01/2008	3	12.00	6.00	28.27	74,300	2,630		66
2	02/05/2008	7	12.00	6.00	28.27				
3	02/26/2008	28	12.00	6.00	28.27				
4	02/26/2008	28	12.00	6.00	28.27				
5	HOLD		12.00	6.00	28.27				

28 Day Compliance: ***N/A***

*Fracture type (A) cone (B) cone & split (C) cone & shear (D) shear (E) column
(1) Cone (2) Cone with vertical cracks (3) Columnar (4) Diagonal (5) Side Fracture (6) Pointed Fracture

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION FOR PUBLICATION OF OUR REPORT, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

SMITH-EMERY COMPANY

An Independent Commercial Testing Laboratory, Established 1904

www.smithemery.com

781 East Washington Boulevard
P.O. Box 880550

Los Angeles, California 90021
San Francisco, California 94188

(213) 749-3411
(415) 642-7326

Fax: (213) 741-8631
Fax: (415) 642-7055

Project-Job: **64719-1**
PRESIDIO BUILDING 1063

1063 GORGAS AVENUE
SAN FRANCISCO, CA

Concrete Compression Test

Report #: **CTHR-2**

February 5, 2008
February 28, 2008
Page 1 of 1

Mailing Address:
SMITH-EMERY COMPANY
FILE COPY
P.O. BOX 880550
SAN FRANCISCO, CA 94188-0550

Distributed to:
ENGINEERING REMEDIATION RESOUR
THE PRESIDIO TRUST
SMITH-EMERY COMPANY

(ASTM Standards used C39,C231,C173,C138,C1064)

All tests performed by Smith Emery Engineer: William C. Wood Job Manager: 1069

Set # 1 Date made: **Tuesday, January 29 2008** Slump: **9.50** 28 Days Design Strength (PSI): **4,000**

Standard size Sampled By **2885** Temp (F) Conc./Air **59 /** Mix Design **70801P**

TruckTicket/Load# **1**

Sample Location: COLUMN FOOTINGS NORTH ROW

No.	Date of Test	Age (Days)	Height	Diameter	Area	Test Load (Lbs.)	Strength (PSI)	Fract.*	% of Design
1	02/01/2008	3	12.00	6.00	28.27	74,300	2,630		66
2	02/05/2008	7	12.00	6.00	28.27	117,080	4,140		104
3	02/26/2008	28	12.00	6.00	28.27				
4	02/26/2008	28	12.00	6.00	28.27				
5	HOLD		12.00	6.00	28.27				

28 Day Compliance: ***N/A***

*Fracture type (A) cone (B) cone & split (C) cone & shear (D) shear (E) column
(1) Cone (2) Cone with vertical cracks (3) Columnar (4) Diagonal (5) Side Fracture (6) Pointed Fracture

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION FOR PUBLICATION OF OUR REPORT, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

SMITH-EMERY COMPANY

An Independent Commercial Testing Laboratory, Established 1904

www.smithemery.com

781 East Washington Boulevard
P.O. Box 880550

Los Angeles, California 90021
San Francisco, California 94188

(213) 749-3411 Fax: (213) 741-8631
(415) 642-7326 Fax: (415) 642-7055

Project-Job: **64719-1**
PRESIDIO BUILDING 1063

1063 GORGAS AVENUE
SAN FRANCISCO, CA

Mailing Address:
SMITH-EMERY COMPANY
FILE COPY
P.O. BOX 880550
SAN FRANCISCO, CA 94188-0550

Concrete Compression Test

Report #: **CTHR-3**

February 15, 2008
February 28, 2008

Distributed to:
ENGINEERING REMEDIATION RESOUR
THE PRESIDIO TRUST
SMITH-EMERY COMPANY

(ASTM Standards used C39,C231,C173,C138,C1064)

All tests performed by Smith Emery Engineer: William C. Wood Job Manager: 1069

Set # 2 Date made: **Tuesday, February 12 2008** Slump: **4.00** 28 Days Design Strength (PSI): **2,500**
Standard size Sampled By **999** Temp (F) Conc./Air / Mix Design **70801P**
TruckTicket/Load#
Sample Location: FOOTINGS

No.	Date of Test	Age (Days)	Height	Diameter	Area	Test Load (Lbs.)	Strength (PSI)	Fract.*	% of Design
1	02/15/2008	3	12.00	6.00	28.27	84,500	2,990		120
2	HOLD		12.00	6.00	28.27				

28 Day Compliance: ***N/A***

*Fracture type (A) cone (B) cone & split (C) cone & shear (D) shear (E) column
(1) Cone (2) Cone with vertical cracks (3) Columnar (4) Diagonal (5) Side Fracture (6) Pointed Fracture

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION FOR PUBLICATION OF OUR REPORT, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

SMITH-EMERY COMPANY

An Independent Commercial Testing Laboratory, Established 1904

www.smithemery.com

781 East Washington Boulevard
P.O. Box 880550
Los Angeles, California 90021
San Francisco, California 94188
(213) 749-3411
(415) 642-7326
Fax: (213) 741-8631
Fax: (415) 642-7055

Project-Job: **64719-1**
PRESIDIO BUILDING 1063

1063 GORGAS AVENUE
SAN FRANCISCO, CA

Concrete Compression Test

Report #: **CTHR-4**

February 26, 2008
February 28, 2008
Page 1 of 1

Mailing Address:
SMITH-EMERY COMPANY
FILE COPY
P.O. BOX 880550
SAN FRANCISCO, CA 94188-0550

Distributed to:
ENGINEERING REMEDIATION RESOUR
THE PRESIDIO TRUST
SMITH-EMERY COMPANY

(ASTM Standards used C39,C231,C173,C138,C1064)

All tests performed by Smith Emery Engineer: William C. Wood Job Manager: 1069

Set # 1 Date made: **Tuesday, January 29 2008** Slump: **9.50** 28 Days Design Strength (PSI): **4,000**
Standard size Sampled By **2885** Temp (F) Conc./Air **59 /** Mix Design **70801P**
TruckTicket/Load# **1**
Sample Location: COLUMN FOOTINGS NORTH ROW

No.	Date of Test	Age (Days)	Height	Diameter	Area	Test Load (Lbs.)	Strength (PSI)	Fract.*	% of Design
1	02/01/2008	3	12.00	6.00	28.27	74,300	2,630		66
2	02/05/2008	7	12.00	6.00	28.27	117,080	4,140		104
3	02/26/2008	28	12.00	6.00	28.27	163,500	5,780		145
4	02/26/2008	28	12.00	6.00	28.27	160,200	5,670		142
5	HOLD		12.00	6.00	28.27				

28 Day Compliance: ***Test COMPLIES with specification. 28 day average=5,725. Percent of Design=143%***

Set # 3 Date made: **Friday, February 22 2008** Slump: **4.00** 28 Days Design Strength (PSI): **2,500**
Standard size Sampled By **2787** Temp (F) Conc./Air / Mix Design
TruckTicket/Load#
Sample Location:

No.	Date of Test	Age (Days)	Height	Diameter	Area	Test Load (Lbs.)	Strength (PSI)	Fract.*	% of Design
1	02/25/2008	3	12.00	6.00	28.27	115,000	4,070		163
2	02/29/2008	7	12.00	6.00	28.27				

28 Day Compliance: ***N/A***

*Fracture type (A) cone (B) cone & split (C) cone & shear (D) shear (E) column
(1) Cone (2) Cone with vertical cracks (3) Columnar (4) Diagonal (5) Side Fracture (6) Pointed Fracture

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION FOR PUBLICATION OF OUR REPORT, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

Table 1A. Sediment Sample Results - Metals
Terra Cotta Pipe - Excavation 3
Building 1065 Area CAP Implementation
Presidio of San Francisco, California

		Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		Cleanup Level	**29 mg/kg**	**5.9 mg/kg**	**5000 mg/kg**	**140 mg/kg**	**1.7 mg/kg**	**1200 mg/kg**	**4000 mg/kg**	**230 mg/kg**	**400 mg/kg**	**20 mg/kg**	**360 mg/kg**	**1400 mg/kg**	**360 mg/kg**	**360 mg/kg**	**5.7 mg/kg**	**650 mg/kg**	**22000 mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	**9.6**	**5.8**	**1,400.**	**0.27**	**19.**	**97.**	**12.**	**180.**	**3,500.**	**12.**	**3.9**	**82.**	ND(0.77)	**11.**	ND(0.77)	**49.**	**4,100.**

Preliminary report no Level III data qualifiers applied.
mg/kg Milligrams per kilogram
ND(1.5) Not detected at reporting limit indicated in parentheses
Results outlined in a box indicate detected concentration exceeds the cleanup level.

Table 1B. Sediment Sample Results - TPH
Terra Cotta Pipe - Excavation 3
Building 1065 Area CAP Implementation
Presidio of San Francisco, California

		Analyte	TPH Diesel (C12-C24)		TPH Fuel Oil (C24-C36)		TPH Gasoline (C7-C12)	
		Cleanup Level	115 mg/kg		160 mg/kg		100 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual
1065SD100	1065SD100[5.5]	19-Dec-07	**7,700.**		**14,000.**		**850.**	**/Y**

- Indicates no cleanup level identified in the CAP
mg/kg Milligrams per kilogram
Results outlined in a box indicate detected concentration exceeds the cleanup level.

Table 1C. Sediment Sample Results - PAHs
Terra Cotta Pipe - Excavation 3
Building 1065 Area CAP Implementation
Presidio of San Francisco, California

	Analyte	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
	Cleanup Level	2700 mg/kg	- mg/kg	308 mg/kg	0.43 mg/kg	0.04 mg/kg	0.43 mg/kg	620 mg/kg	0.43 mg/kg	4.3 mg/kg	0.078 mg/kg	316 mg/kg	60 mg/kg	0.27 mg/kg	9 mg/kg	86 mg/kg	241 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	**2.3**	**0.5 /J**	**0.67 /J**	**1.8**	**2.6**	**3.6**	**1.4 /J**	**0.75 /J**	**3.1**	ND(1.5)	**7.1**	**1.7**	**0.93 /J**	**0.89 /J**	**3.5**	**9.2**

Preliminary report no Level III data qualifiers applied.
- Indicates no cleanup level identified in the CAP
mg/kg Milligrams per kilogram
ND(1.5) Not detected at reporting limit indicated in parentheses
Results outlined in a box indicate detected concentration exceeds the cleanup level.

Table 1D. Sediment Sample Results - VOCs
Terra Cotta Pipe - Excavation 3
Building 1065 Area CAP Implementation
Presidio of San Francisco, California

		Analyte	1,1,1,2-Tetra chloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetra chloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene
		Cleanup Level	- mg/kg	8 mg/kg	0.0091 mg/kg	0.032 mg/kg	0.2 mg/kg	- mg/kg	- mg/kg	- mg/kg	- mg/kg	- mg/kg	- mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)

		Analyte	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene (cis)	1,2-Dichloroethene (trans)	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropene (cis)	1,3-Dichloropropene (trans)
		Cleanup Level	- mg/kg	- mg/kg	- mg/kg	0.0045 mg/kg	0.19 mg/kg	0.67 mg/kg	0.052 mg/kg	- mg/kg	- mg/kg	0.033 mg/kg	0.033 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)

		Analyte	1,3-Dichloropropene (trans)	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Methyl-2-pentanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene
		Cleanup Level	0.03 mg/kg	- mg/kg	- mg/kg	3.9 mg/kg	- mg/kg	2.8 mg/kg	2.7 mg/kg	- mg/kg	2.7 mg/kg	0.24 mg/kg	0.005 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)	ND(7.7)	ND(7.7)	ND(15)	ND(7.7)	ND(15)	ND(15)	ND(7.7)	ND(15)	ND(31)	ND(7.7)

		Analyte	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane
		Cleanup Level	- mg/kg	- mg/kg	0.014 mg/kg	2.2 mg/kg	0.22 mg/kg	200 mg/kg	0.012 mg/kg	1.5 mg/kg	0.63 mg/kg	0.098 mg/kg	0.29 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(15)	ND(7.7)	ND(7.7)	ND(7.7)	ND(15)	ND(7.7)	**4.2 /J**

		Analyte	Dibromochloro methane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Freon 113	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-tert-butyl ether	n-Butylbenzene	n-Propylbenzene	Naphthalene
		Cleanup Level	0.019 mg/kg	- mg/kg	- mg/kg	13 mg/kg	- mg/kg	- mg/kg	- mg/kg	0.076 mg/kg	0.023 mg/kg	- mg/kg	- mg/kg	9 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)	ND(7.7)	ND(15)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(31)	ND(7.7)	ND(7.7) U	ND(7.7)	ND(7.7)

		Analyte	p-Isopropyltoluene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloro ethene	Toluene	Trichloroethene	Trichlorofluoro methane	Vinyl acetate	Vinyl chloride	Xylenes (m&p-)	Xylenes (o-)
		Cleanup Level	- mg/kg	- mg/kg	1.5 mg/kg	- mg/kg	0.087 mg/kg	1 mg/kg	0.26 mg/kg	- mg/kg	430 mg/kg	0.0067 mg/kg	33 mg/kg	33 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065SD100	1065SD100[5.5]	19-Dec-07	ND(7.7)	**2.1 /J**	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(7.7)	ND(77)	ND(15)	ND(7.7)	ND(7.7)

Preliminary report no Level III data qualifiers applied.
U Qualified as not detected during Level II validation based on blank contamination.
- Indicates no cleanup level identified in the CAP
mg/kg Milligrams per kilogram
ND(7.7) Not detected at reporting limit indicated in parentheses
Results outlined in a box indicate detected concentration exceeds the cleanup level.

Laboratory Qualifier Definitions

J: Estimated value
Y: Sample exhibits a chromatic pattern which does not represent the standard

Level II Data Validation Qualifier Definitions

U Qualified as not detected on the basis of blank contamination

Analytical Results for Aromas Quarry Sample - TPH and BTEX
Building 1065 Area CAP Implementation

		Analyte	TPH Diesel (C12-C24)		TPH Fuel Oil (C24-C36)		TPH Gasoline (C7-C12)	Benzene	Ethylbenzene	Toluene		Xylenes (m&p-)		Xylenes (o-)	
		Cleanup Level	115 mg/kg		160 mg/kg		100 mg/kg	0.005 mg/kg	13 mg/kg	1 mg/kg		33 mg/kg		33 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value Qual	Value Qual	Value Qual	Value	Qual	Value	Qual	Value	Qual
1065BC402A-D (Composite)	1065BC402	11-Jan-08	**1.1**	**/Y**	**4.6**	**/J**	ND(1)	ND(0.0054)	ND(0.0054)	ND(0.0054)	U	ND(0.0054)	U	**0.00096**	**/C,J**

Preliminary report no Level III qualifiers applied
ND(0.0054) Not detected at reporting limit indicated in parentheses
U Qualified as not detected during Level II validation based on blank contamination.

Analytical Results for Aromas Quarry Sample - Pesticides
Building 1065 Area CAP Implementation

		Analyte Cleanup Level[1]/Units	4,4'-DDD 2 mg/kg		4,4'-DDE 1.4 mg/kg		4,4'-DDT 1.4 mg/kg		Aldrin 0.029 mg/kg		alpha-BHC 0.18 mg/kg		beta-BHC 0.32 mg/kg		delta-BHC 0.18 mg/kg		gamma-BHC - mg/kg		Dieldrin 0.030 mg/kg		Endosulfan I 370 mg/kg		Endosulfan II 370 mg/kg		Endosulfan sulfate 370 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC402A-D (Composite)	1065BC402	11-Jan-08	ND(0.0034)		ND(0.0034)		ND(0.0034)		ND(0.0017)		ND(0.0017)		ND(0.0017)		ND(0.0017)		ND(0.0017)		ND(0.0034)		ND(0.0017)		ND(0.0034)		ND(0.0034)	

		Analyte Cleanup Level[1]/Units	Endrin aldehyde 18 mg/kg		Endrin ketone 18 mg/kg		Endrin 18 mg/kg		alpha-Chlordane 0.37[2] mg/kg		gamma-Chlordane 0.37[2] mg/kg		Heptachlor epoxide 0.088 mg/kg		Heptachlor 0.12 mg/kg		Methoxychlor 310 mg/kg		Toxaphene - mg/kg		Azinphos-methyl - mg/kg		Bolstar - mg/kg		Chlorpyrifos - mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC402A-D (Composite)	1065BC402	11-Jan-08	ND(0.0034)		ND(0.0034)		ND(0.0034)		ND(0.0017)		ND(0.0017)		ND(0.0017)		ND(0.0017)		ND(0.017)		ND(0.061)		ND(0.5)		ND(0.5)		ND(0.5)	

		Analyte Cleanup Level[1]/Units	Coumaphos - mg/kg		Demeton-O - mg/kg		Demeton-S - mg/kg		Diazinon - mg/kg		Dichlorvos - mg/kg		Disulfoton - mg/kg		Ethoprop - mg/kg		Fensulfothion - mg/kg		Fenthion - mg/kg		Merphos - mg/kg		Methyl Parathion - mg/kg		Mevinphos - mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC402A-D (Composite)	1065BC402	11-Jan-08	ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)	

		Analyte Cleanup Level[1]/Units	Naled - mg/kg		Phorate - mg/kg		Ronnel - mg/kg		Stirofos - mg/kg		Tokuthion (Prothiofos) - mg/kg		Trichloronate - mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC402A-D (Composite)	1065BC402	11-Jan-08	ND(4)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)		ND(0.5)	

Preliminary report no Level III qualifiers applied

ND(0.0034)	Not detected at reporting limit indicate in parentheses
(1)	Presidio Residential Human Health Cleanup Level
(2)	Cleanup level applied to sum of alpha and gamma chlordane concentration
--	Indicates no Presidio cleanup level.

Analytical Results for Aromas Quarry Sample - Herbicides
Building 1065 Area CAP Implementation

		Analyte Cleanup Level[(1)]/Units	2,4,5-T -- mg/kg		2,4,5-TP (SILVEX) - mg/kg		2,4-D 620 mg/kg		2,4-DB - mg/kg		Dalapon - mg/kg		Dicamba 1,800 mg/kg		Dichloroprop - mg/kg		DINOSEB - mg/kg		MCPA - mg/kg		MCPP - mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC402A-D (Composite)	1065BC402	11-Jan-08	ND(0.01)		ND(0.01)		ND(0.1)		ND(0.1)		ND(0.25)		ND(0.01)		ND(0.1)		ND(0.05)		ND(10)		ND(10)	

Preliminary report no Level III qualifiers applied

ND(0.01)	Not detected at reporting limit indicate in parentheses
(1)	Presidio Residential Human Health Cleanup Level
--	Indicates no Presidio cleanup level.

Analytical Results for Aromas Quarry Sample - Metals
Building 1065 Area CAP Implementation

		Analyte	Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt		Copper		Lead	
		Cleanup Level	29 mg/kg		5.9 mg/kg		5000 mg/kg		140 mg/kg		1.7 mg/kg		1200 mg/kg		4000 mg/kg		230 mg/kg		400 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC402	1065BC402	11-Jan-08	**0.74**	**J-**	ND(0.29)		**35.**		ND(0.1)	U	ND(0.26)		**2.6**		**5.5**		**37.**	**J+**	ND(0.18)	

		Analyte	Mercury		Molybdenum		Nickel		Selenium		Silver		Thallium		Vanadium		Zinc	
		Cleanup Level	20 mg/kg		360 mg/kg		1400 mg/kg		360 mg/kg		360 mg/kg		5.7 mg/kg		650 mg/kg		22000 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065BC402	1065BC402	11-Jan-08	**0.016**	**/J**	ND(0.26)		**1.1**		ND(0.52)		ND(0.26)		ND(0.52)		**53.**		**21.**	

Preliminary report no Level III qualifiers applied
ND(026) Not detected at reporting limit indicated in parentheses
U Qualified as not detected during Level II validation based on blank contamination.

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Week Ending: March 7, 2008

Summary of Work Performed:

March 3 & 4, 2008

- Concrete was removed north of the first (northernmost) row of columns in Building 1063 and soil was excavated to a depth of 6 feet bgs in that area.
- ERRG collected composite soil samples from the soil stockpiles from Excavations 2 and 3.

March 5, 2008

- Potholes were dug near Columns 2 and 3 and soil to assess the depth of impacted soil using PID measurements, observations of soil staining, and/or petroleum odor.
- Soil was excavated from Grids 60E to 70E to a depth of 7 feet bgs and to a depth of 7.5 feet bgs in the area west of Grid 60E (shown on attached field maps).
- Soil was excavated from the north sidewall at an approximate one to one slope except for the sidewall section between 34E and 40E where PID readings at 6 feet bgs were 400 to 450 ppm. At that section of sidewall, soil was further excavated at a 2 to 1 slope. After removal of additional soil from the sidewall, soil in that section of sidewall was re-screened and showed a PID reading of 0 ppm.
- A 4-6" diameter clay pipe (containing mud and water) was removed from the northern portion of the excavation and traced to where it entered the north sidewall. The top of the pipe was located at approximately 7 ft bgs.

March 6, 2008

- Excavation bottom confirmation soil sample 1065EX303(7.0) was collected from the 7-foot deep section of Excavation 1 and 1065EX304(7.5) was collected under the former location of the clay pipe in the excavation area west of Grid 60E.
- Sidewall soil samples 1065EX305(6.0) and 1065EX306(6.0) were collected from 6 foot bgs where the highest PID measurements were recorded. 1065EX306(6.0) was collected from the section of sidewall (2:1 slope) where there were previously elevated PID readings.
- A duplicate soil sample and an equipment blank sample were collected.

March 7, 2008

- Concrete was removed from and soil excavated from the west side of the excavation between 40N and 50 N and as far east as Grid 62E.
- Excavation depths ranged from 7 feet to 7.75 feet bgs. Soil was excavated from areas where there were elevated PID measurements, observations of soil staining, and/or petroleum odor.

Project Milestones Achieved

- Soil was excavated between the northernmost row of columns and northern sidewall and bottom and sidewall samples were collected from the northern portion of the excavation.
- ERRG collected stockpile samples for profiling of soils removed from Excavations 2 and 3.

Work Planned:

- Excavate area to the south and collect confirmation soil samples.

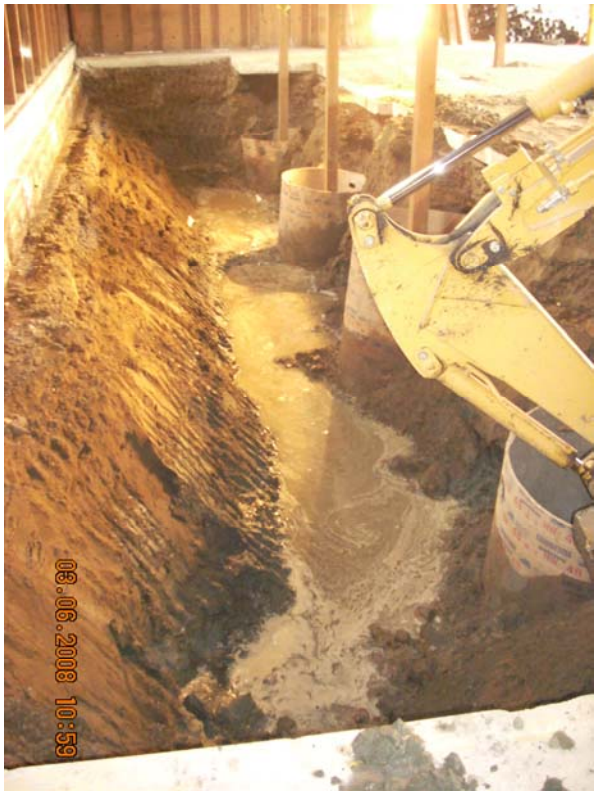
Discussion Points for Next Stakeholder Meeting (March 18, 2008):

- Proposed sampling grid for bottom and sidewall confirmation samples.

Attachments:

- Daily Field Logs
- Photographs

Excavation 1: Looking West from 55N/80E. March 5, 2008.



Excavation 1: Looking East from 58N/26E. March 6, 2008.

Excavation 1: View looking west from the remaining mezzanine located to the east (40N/86E). End of day March 7, 2008.

Daily Field Log Sheet 1 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 408407S115 **Task:** 02.4

Date: 3/5/08

Project Location: Excavation 1

Notes by: Scott Graham

Onsite Personnel: Dorick, Alberto, Enrique

Site Visitors: Ram, Ryan, Tyson, Goose

Weather: Clear + Sunny

Site Conditions & Safety Considerations: Slips/Trips/falls, Moving equipment, open holes

Monitoring Equipment Used: MicroTip HL-2000 **Calibration** ok **Date** 3/5/08

calibrate using 100ppm iso butylene

Number of samples collected: Soil: Ø Water: Ø	COCs Attached	Yes	No
	Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite: Mini-excavator, 5yd dump, bobcat, Lights, Holding tank

Estimated volume excavated 51×10×6'	Site Plan Attached	Yes	(No)
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards Ø	Bills of Lading Attached	Yes	No

Daily Field Logs Sheet 2 of 2

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511.5 **Task:** 02.4

Date: 3/5/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 930

Discuss Job with Derek (ex operator)
They have a 10' section dug to 6ft - Northmost row
Pothole ex to determine depth we need to dig to
7' deep 5' north of column 3 - PID = 0.0
7' deep 5' north of column 2 = 268ppm at 7.5 deep 20ppm
Discuss excavation depth - decide to dig to 7' deep on east side (water at ≈ 6') + 7.5-8 ft on West
Call Mary Jo to discuss - she suggests I call Ryan to discuss the clay pipe encountered while digging out column 3 + determine if it is an active storm drain
1030 - Left a message with Ryan
1050 - Ram, Ryan, Tyson + Goose onsite to check out site - Ryan wants us to reconnect pipe when done - Ram + Ryan depart 1110
Calibrate PID, Lay out sample grid
Excavation Area is 50' EW to 60' NS - Draw up map for sample Locations
Strong Odor at 6' in NW end of ex-fill materials (Lots of bottles + bricks)
North Sidewall from 29-49E has PID of 400-450 ppm at 6' bgs at 1:1 slope discuss + decide to try a little steeper 2:1 as soil types are more cohesive + see if we can remove
PID at background at 7.5' - sediments are ~~mostly clean fn grained sand~~ ~~sandy clay~~ mostly brown to 5, then Dk grey sandy clay
158 PID at 6' near colum 3
Top of Clay pipe at around 6' near column ≈ 4 to 6" diam appears to go NW to SE through column 3
Depart 1500

268

MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

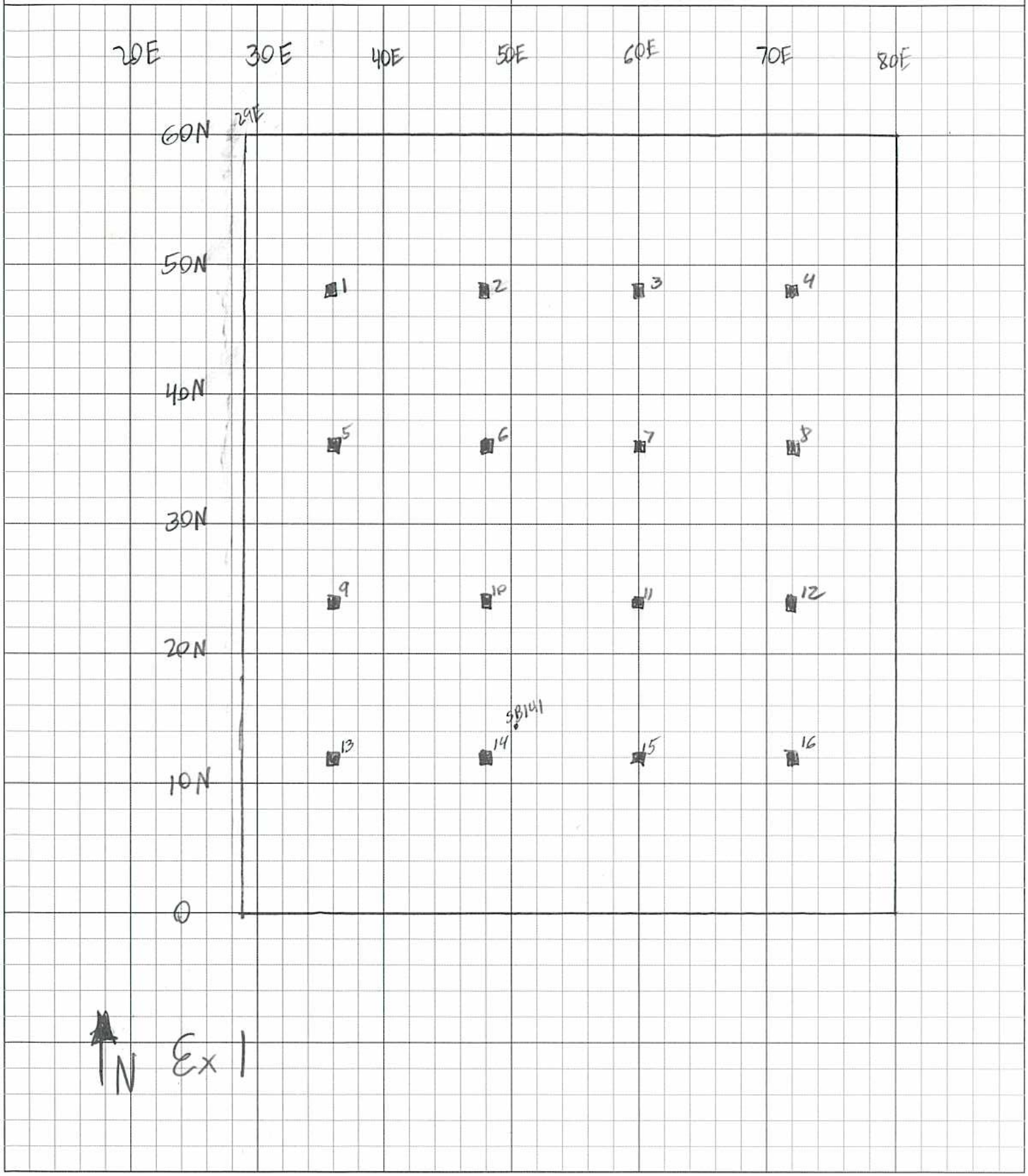
JOB NO. 40840751.5 SHEET ____ OF ____

PHASE ____ TASK 02.4

JOB NAME Bldg 1065 Ex 1

BY Scott Graham DATE ____

CHECKED BY ____ DATE ____



Daily Field Log Sheet 1 of 5

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511.5 **Task:** 02.4

Date: 3/6/08

Project Location: Ex 1

Notes by: Scott Graham

Onsite Personnel: Alberto, Derick, Enrique

Site Visitors: James Medley (off+on throughout day)

Weather: Sunny, clear + warm

Site Conditions & Safety Considerations: Slips/trips/falls, open excavation + pier holes, heavy equipment

Monitoring Equipment Used: Microtip HL2000 **Calibration** **Date** 3/6/08

calibrated using 100 ppm isobutylene

Number of samples collected: Soil: 4 + DUP Water: EB + TB

COCs Attached	(Yes)	No
Sample Location Map Attached	(Yes)	No

Time Collected	Sample ID	Depth	Notes
800	1065EX303[7.0] + DUP030608	7	
845	1065EX303 RB304	NA	
905	1065EX304[7.5]	7.5	
945	1065EX305[6.0]	6.0	
1000	1065EX306[6.0]	6.0	

Contractor Equipment Onsite: Same as yesterday

Estimated volume excavated ~20 yrds	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards Ø	Bills of Lading Attached	Yes	No

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02.4

Date: 3/6/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 555

Alberto Tenorio Onsite at 635, Derek onsite 675,

Attend H+S meeting

650 - begin excavating West to east to depth ~~near the clay pipe~~, currently at ≈ 6', going to 7'
moist at 6' but no standing water, water at 6'3" bgs

Calibrate PID

Soils consist of 6" concrete pad, 2" clean fine grained sand, 2' fill brown - 30% gravel 5-10% fine sand, 60% silt, ceramic + brick fragments, 2' fine gr brown clean sand angular up to 1" with ~~clay~~ 30% clay, 30% silt, 30% very fine gr sand, Trace of gravel up to 1"
Dark grey - moist to wet, Soft to not cohesive.

Footing ~~on North wall goes 18" below bottom of pad then sticks out, 6" + goes another 6"~~

Sketch ~~footing~~ foundation dimensions attached

Collect Bottom sample 1065EX303[7.0] at 8am 50N 67E + MS/MSD + DUP
PID: 12.5

Orange brown hard silty-clay with 5-10% very fine grained sand (70% clay, 20% silt) at 7' where sample was collected

Collect Equipment Blank 1065EX303RB304 at 845

Collect Bottom sample 1065EX304[7.5] at 905 same at 54N 46E 0.0 on PID
- collect under the clay pipe where it goes into the North sidewall 1:1 Slope
Soil is Dark grey, wet, 30% clay, 30% very fine gr sand, 40% silt

Collect Sidewall sample 1065EX305[6.0] at 945 55N 61E 0.2 ppm on PID
in Dark soil - Dk grey clayey sand, wet 30% clay, 10-20% silt, 50-60% v fine gr sand

Collect Sidewall sample 1065EX306[6.0] at 1020 57N 37E 0.0 ppm on PID
in Dk grey, wet, Silty sand, 10-20% clay, 50-60% v fine gr sand, 30% silt

1045 Start removing concrete and start excavating S from 50N

CT Courier onsite 1220 to pick up samples

Lunch 1230 -|

50N 46E - 7.5
37E 57N - 6 1020

Daily Field Logs Sheet 3 of 5

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511S **Task:** 02.4

Date: 3/6/08

Notes by: Scott Graham

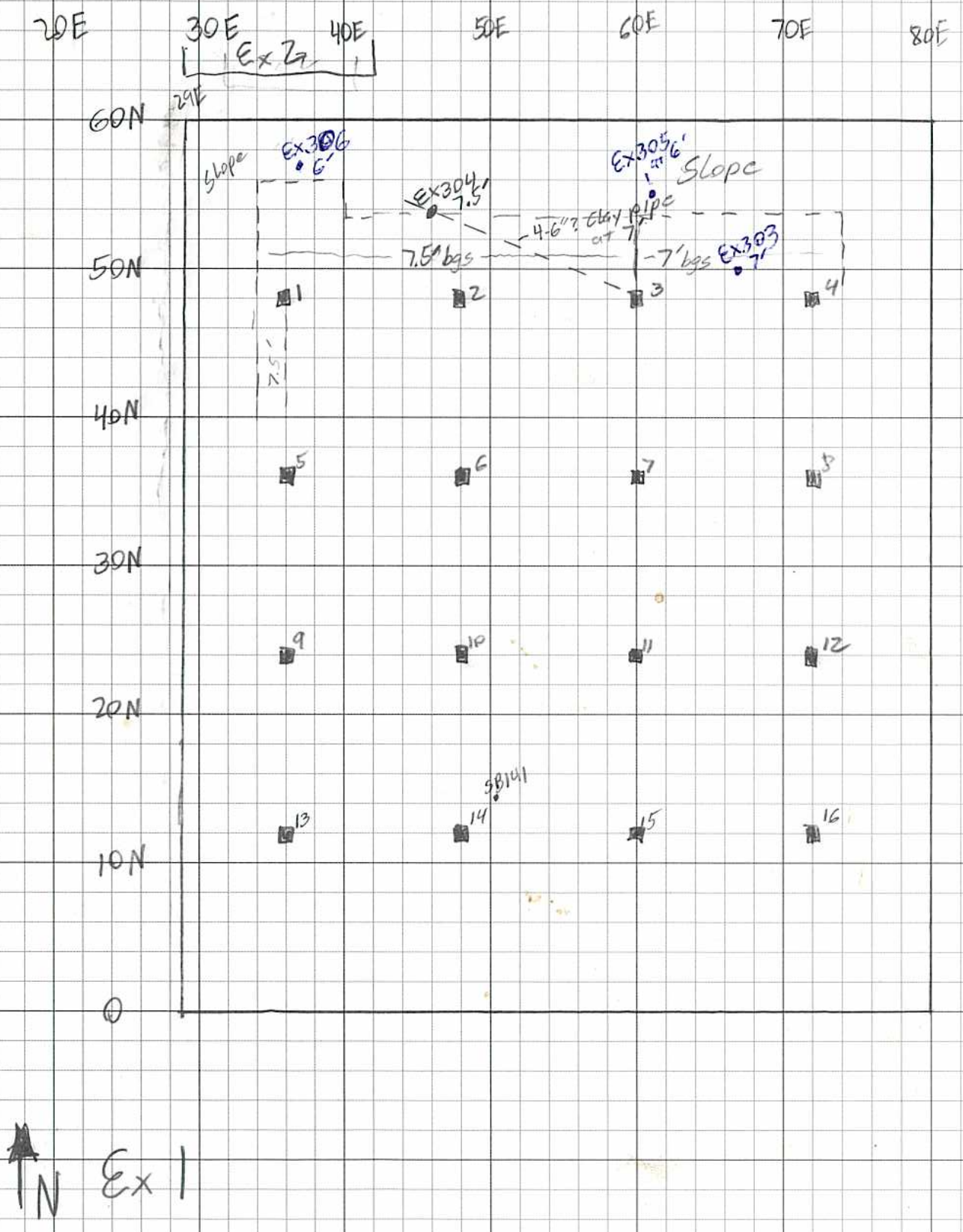
Materials onsite

Field Notes: Remove concrete & excavate West to East in section from 40-50N
PID reading at 7.5' deep 44N34E ≈ 16 to 50 ppm
1415 finish ex for day so dump can have some maintenance work done
Everyone Departs 1430

MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 4084075115 SHEET 4 OF 5
PHASE _____ TASK 02.4
JOB NAME Bldg 1065 Ex 1
BY Scott Graham DATE 3/6/08
CHECKED BY _____ DATE _____



MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

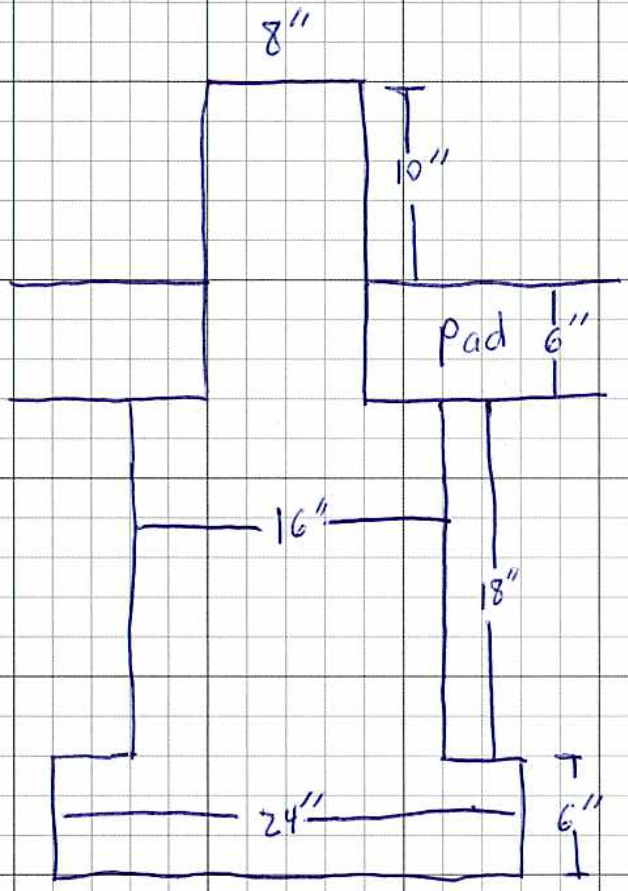
JOB NO. 40840751.15 SHEET 5 OF 5

PHASE _____ TASK 02.4

JOB NAME Bldg 1063

BY Scott Graham DATE 3/6/08

CHECKED BY _____ DATE _____



Sketch of ~~foundation~~ footing

MACTEC

CHAIN OF CUSTODY RECORD

3854

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Bldg 1063
CITY / STATE: San Francisco CA ZIP:

PROJECT NAME: Bldg 1063-6.1
JOB NO.: 408407S115 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 3/6/08

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES	FOR LAB USE ONLY
945	X		SO	1063Ex30C[6.0]	55N61E-6.0		7	X X X X X	
1020	X		SO	1063Ex30C[6.0]	57N37E-6.0		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	3/6/08 1220		3/6 1220			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Evaluation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

MACTEC

CHAIN OF CUSTODY RECORD

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Pittsburg Tract
STREET ADDRESS: PIT 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: PIT 1065-EX1
JOB NO.: 408407511502.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SKG
SAMPLING DATE:

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES	FOR LAB USE ONLY
800	X		SO	1065EX303[7.0]	50N67E-7	+MS/MSD	14	X X X X X	
905	X		SO	1065EX304[7.5]	54N46E-7.5		7	X X X X X	
800	X		SO	DUP030208	DUP		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	3/6/08 1220	AC	3/6/08 1720			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
48 hr TAT
via MS/MSD on 1065EX303

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

MACTEC

CHAIN OF CUSTODY RECORD

3832

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: ~~Building 6~~ Presidio Trust
STREET ADDRESS: Bldg 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME	JOB NO.
Bldg 1063 - Ex 1	408407511502.4
SAMPLERS (SIGNATURE)	SAMPLERS INITIALS (PRINT)
[signature]	SRG
SAMPLING DATE	

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOC (8260B)	TPH-d (8015B)	TPH-g (8015B)	PAH (8270C)	Title 22 Metals	FOR LAB USE ONLY
845	X		W	1063EX303RE2004	EB		12	X	X	X	X	X	
NA	X		W	TB030607	TB		2	X	X				

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	RECEIVED BY:	DATE / TIME
[signature] (SIGNATURE)	3/6/06 1220	[signature] (SIGNATURE)	3/6/06 1220	(SIGNATURE)	(SIGNATURE)	

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

Daily Field Log

Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 4084075115 Task: 02.4

Date: 3/7/08

Project Location: Excavation 1

Notes by: Scott Graham

Onsite Personnel: Derek, Enrique, Alberto, James Medley

Site Visitors:

Weather: Clear & warm

Site Conditions & Safety Considerations: Slips/Trips/falls, open excavation, moving equipment

Monitoring Equipment Used: Microtip HL-2000 Calibration Date 3/7/08

Calibrated using 100 ppm isobutylene

Number of samples collected:	Soil: Ø	Water: Ø	COCs Attached	Yes	No
			Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite:

Estimated volume excavated ~~≈ 200~~ 50 yards	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards Ø	Bills of Lading Attached	Yes	No

Daily Field Logs Sheet 2 of 8

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02.4

Date: 3/7/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 625
Enrique & Alberto Onsite, Derek arrives 630
Totalizer at 5,244,744 & is dry (no pumping for awhile)
Alberto & Enrique depart to p/u replacement dump truck from Hertz (other is in the shop)
Calibrate PID, Water in excavation at approx 7' bgs
New Dump Truck (3 yrd) onsite at 730, Attend H+S meeting
Begin excavating 745 just south of column 1 (Between 1+5)
Walk around ~~to~~ Bldg 1040 to familiarize myself with it
9 am - remove concrete between columns 1+2 & 5 & 6 & begin excavating
915 - Ryan onsite, Departs 930
Hit hard section at 7' in section, PID at 17ppm, Excavate Section to 7'3" at 0.0ppm
1030 - begin removing next section of concrete between columns 2 & 6
1130 - remove concrete between 50E & ~~60~~ 59E & 38N & 48N & begin excavating
17ppm at 7' between Columns 2 & 6
PID East SW @ 6' bgs 42N 60E at 83ppm → keep digging east
1345 - remove concrete between 38N & 48N @ to 62E & begin excavating
317ppm at 15ft bgs at 41N 62E keep going east
1415 remove concrete from ~~42N~~ 50N-46N at east end of ex
1430 - Begin covering stockpiles & clean up
1440 - Depart Site

MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

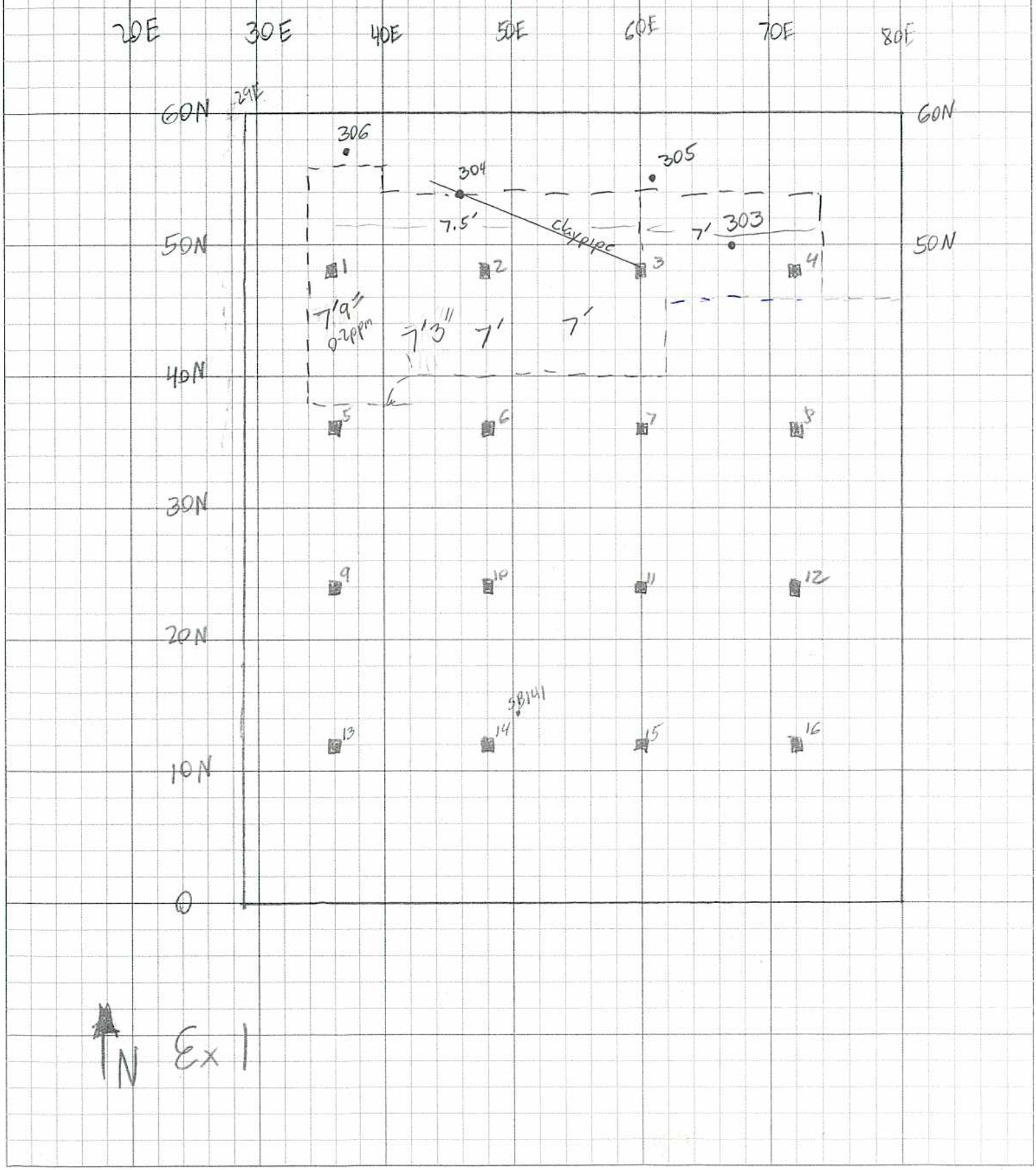
JOB NO. 408407515 SHEET 3 OF 3

PHASE _____ TASK 02.4

JOB NAME Bldg 1065 Ex 1

BY Scott Graham DATE 3/1/07

CHECKED BY _____ DATE _____



PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Week Ending: March 14, 2008

Summary of Work Performed:

March 10, 2008
- Excavated soil between Grids 60E and 70E and 38N and 50N to 7.5 feet bgs.
- Removed concrete from area between 74E and 80E. Soil was not excavated from this area as there were no odors or PID readings.
- Removed concrete between Columns 7 and 8 and 6 and 7 and excavated soil to 7 feet bgs.
- Water flowing from terra cotta pipe into excavation.

March 11, 2008
- Excavated soil between Columns 5 and 6 to 7.5 feet bgs based on PID readings.
- Removed concrete between west edge of excavation area and Columns 5 and 9. Excavated area to 8 feet bgs based on PID readings.
- Water encountered in Excavation 1 at 7.5 bgs.

March 12, 2008
- Excavated soil between Columns 5 and 6 to 8.5 feet bgs based on PID readings.
- Soil at 8.5 feet has a high clay/silt content appears to be the top of the Bay Mud.
- Removed concrete between Columns 6 and 7, 10 and 11, 7 and 11, and 7 and 8 and excavated soil to 8 feet bgs.
- ERRG cleaned out the holding tank with a high pressure washer and discharged the rinsate to the bermed area of the soil stockpile.

March 13, 2008
- Removed concrete between Columns 7 and 8, 11 and 12, 8 and 12 and excavated soil to 6.5 to 7 feet bgs on the basis of PID readings.
- Removed concrete southeast of Column 13 and the south wall.
- Two corroded metal pipes were encountered at 1 foot bgs. The pipes comprised one 3-inch diameter pipe and a 2- inch diameter pipe with a ¾-inch pipe inside. Soil in the area was excavated to 2 feet.

March 14, 2008

- Completed excavation of soil between columns 10 and 11 and 9 and 10 and the west wall of Excavation 1.
- Removed concrete in the southern part of Excavation 1 area for a slot trench. Trench was located 4 to 6 ft north of and parallel to the south wall of Building 1063.
- The slot trench was excavated to 6.5 feet bgs, backfilled with 1 foot of gravel, and AB to the ground surface.
- The AB was compacted with bucket of excavator. No compaction testing was performed.

Project Milestones Achieved

- Soil was excavated in central portion of Excavation Area 1.

Work Planned:

- Excavate area to the south and collect confirmation soil samples.

Discussion Points for Next Stakeholder Meeting (March 18, 2008):

- Proposed sampling grid for bottom and sidewall confirmation samples.

Attachments:

- Daily Field Logs
- Photographs

Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 408407511 5 Task: 02.4

Date: 3/10/08

Project Location: Excavation 1

Notes by: Scott Graham

Onsite Personnel: Derek, James, Alberto, Enrique

Site Visitors: Tyson

Weather: Sunny & mild

Site Conditions & Safety Considerations: Slips/trips/fall, open holes, Moving Heavy equip

Monitoring Equipment Used: MicroTip HL-2000 Calibration Date 3/10/08

Calibrate using 100ppm Isobutylene

Number of samples collected: Soil: Ø Water: Ø	COCs Attached	Yes	No
	Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite:

Estimated volume excavated	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards Ø	Bills of Lading Attached	Yes	No

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02 4

Date: 3/10/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 910

Calibrate PID, Discuss Job with Derek & James

Area between 60-72E & 38-50N excavated to 7' - need to uncover the clay pipe just below that level - look like they scraped it once as I see a small piece in the ex bottom

58ppm at 7' - go 6" deeper under pipe; 0.2 ppm at 7.5' above right next to pipe

0.0 ppm at 6-6.5ft bgs at 74E 42N = no need to go further east

0.3ppm at 7' bgs rest of section between columns 3, 4, 7, & 8

Will take sidewall sample here from under the pipe, 3.5ppm at 7ft just under the pipe where it goes into east sidewall at 42N 74E

Remove concrete from area east of 74E (to 80E) but no need to excavate (based on PID, Look, odor)

STLC on stockpile says Cal Haz for lead, Tyson has ordered TCLP on rush

Discuss soil left in place vs potential high lead content with Mary Jo & Ryan - Ryan thought that the high lead might be from lead based paint washing off the outside walls, so we shouldn't have that problem inside, lead cleanup level for soil is 400ppm - so we can leave soils if PID is low & no indication of contamination

1045 remove concrete between columns 7 & 8 & begin excavating area

Standing Water is flowing out the end of the clay pipe into the Ex

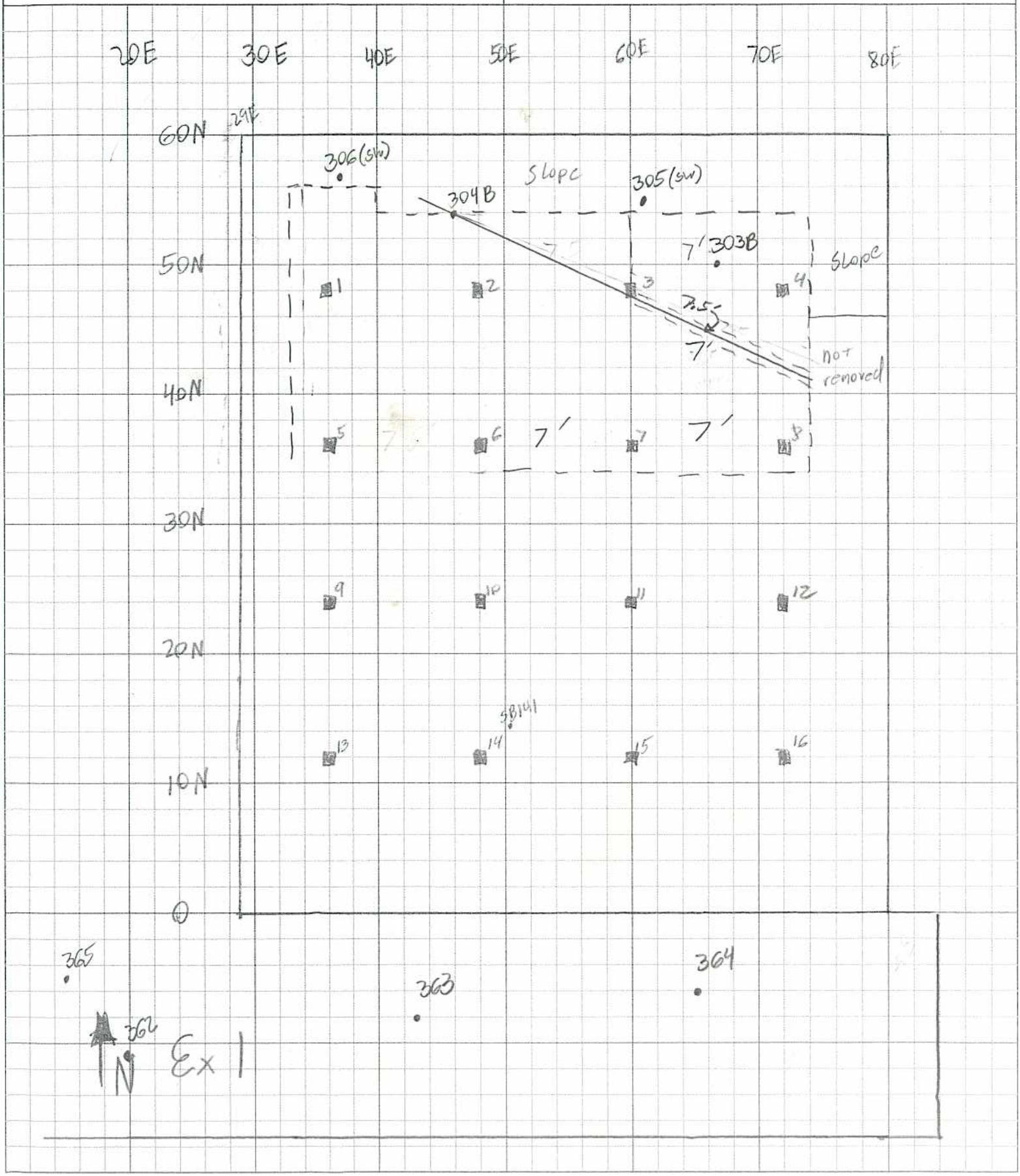
1245 remove concrete between columns 6 & 7 & begin excavating area

Ryan on site 1315-1345, discuss excavation & sampling plan, Ryan would like us to count Ex 3 & 1 as one excavation in regard to the amount of bottom & sw samples that we collect, so that we only collect 4 bottom samples in Ex1 as opposed to 6 & not take any sw samples until after next tuesday's meeting

Depart 1400

MACTEC
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 4084075115 SHEET 3 OF 3
PHASE _____ TASK 02.4
JOB NAME Bldg 1065 Ex 1
BY Scott Graham DATE 3/10/08
CHECKED BY _____ DATE _____



Daily Field Log Sheet 1 of 4

Project Name: Building 1065 Area CAP Implementation Job # 408407511S Task: 02.4

Date: 3/11/08

Project Location: Bldg 1063 Excavation 1

Notes by:

Onsite Personnel: Derek, Alberto, Enrique

Site Visitors:

Weather: Sunny, clear & mild

Site Conditions & Safety Considerations: Slips/Trips/Falls, open excavations, moving equipment

Monitoring Equipment Used: MicroTip HL-2000 Calibration Date 3/11/08

Calibrate using 100 ppm isobutylene

Number of samples collected: Soil: 0 Water: 0	COCs Attached	Yes	No
	Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite: Mini-Excavator, Bobcat, 5-yrd dump truck, manlift

Estimated volume excavated	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled: 0	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards: 0	Bills of Lading Attached	Yes	No

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02.4

Date: 3/11/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 1000, Enrique onsite 1005 with 5 yrd dump truck
Adjusting ERRG stockpile + still working on excavating area between columns 5+6
Calibrate PID, Sign + Review HASP sheet
Water at approx 7'5", Sketch north sidewall
1040 ~~Restart~~ Restart digging between columns 5+6, 13.9 ppm at 7' bgs
11.6 at 7'3" - dig to ~~between 7'3" to~~ 7.5' bgs, 2.8 ppm at 7.5'
1130 remove concrete between west edge of Ex + column 5 + begin excavating area
12 - finish section to 7'5" - 4.0 ppm, Remove concrete on West side to 34E + 30N
Lunch 12-1230
Area West of Column 5 at about 30N - 150 ppm at 7', 7.0 ppm at 7.5' bgs,
3.4 at 8' - dig to 8'
1315 remove next section of concrete + ~~Plan to~~ may begin excavating area between + West of columns 5+9
Derek has to leave for Dentist Appt, Alberto + Enrique are going to work on cleaning the bottom of the holding tank + may dig a bit more if they have time
Clean up + take pictures
~~Crew~~ Depart Site 1340

MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

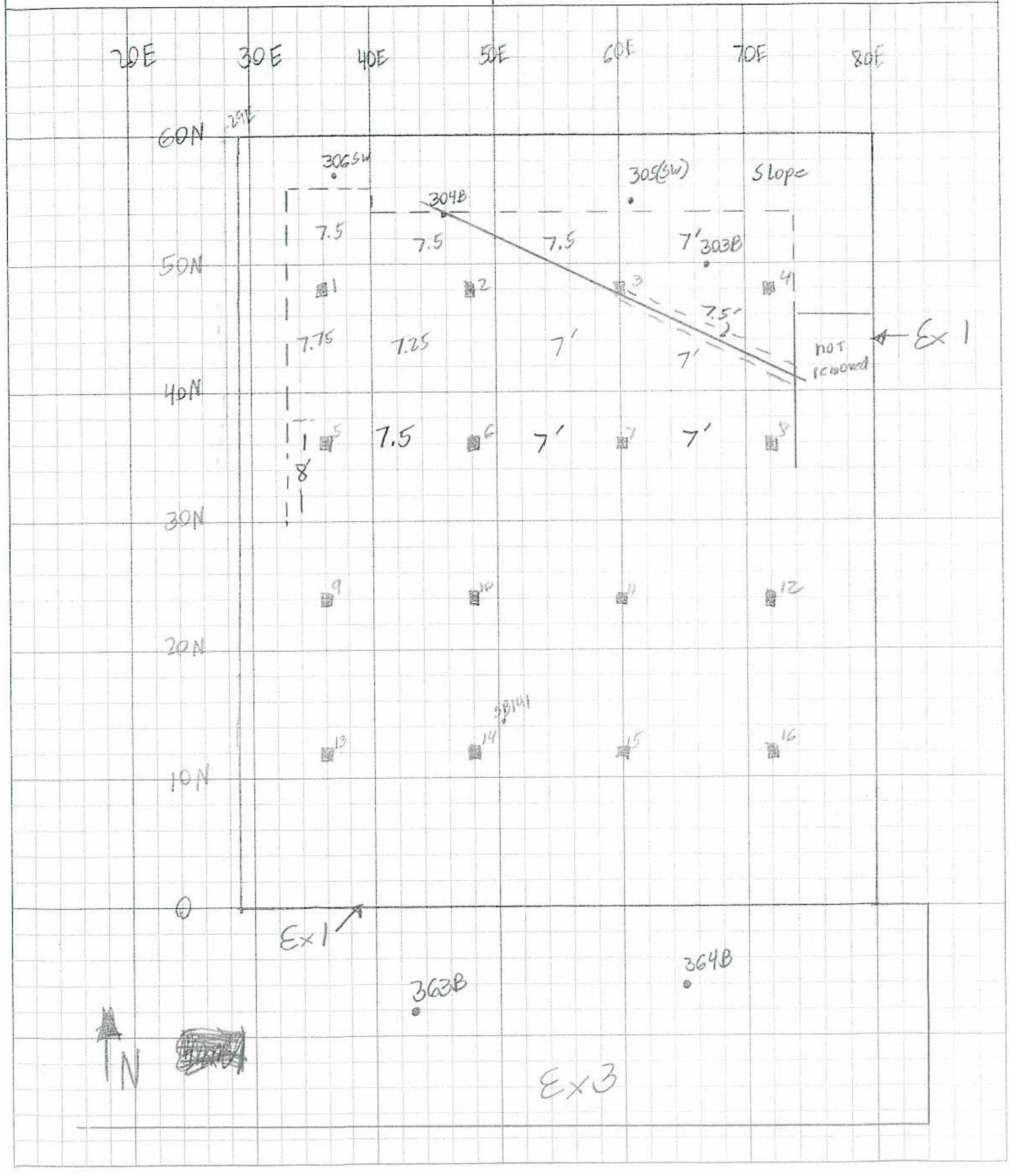
JOB NO. 408407511.5 SHEET 3 OF 4

PHASE _____ TASK 02.4

JOB NAME Bldg 1065 Ex 1

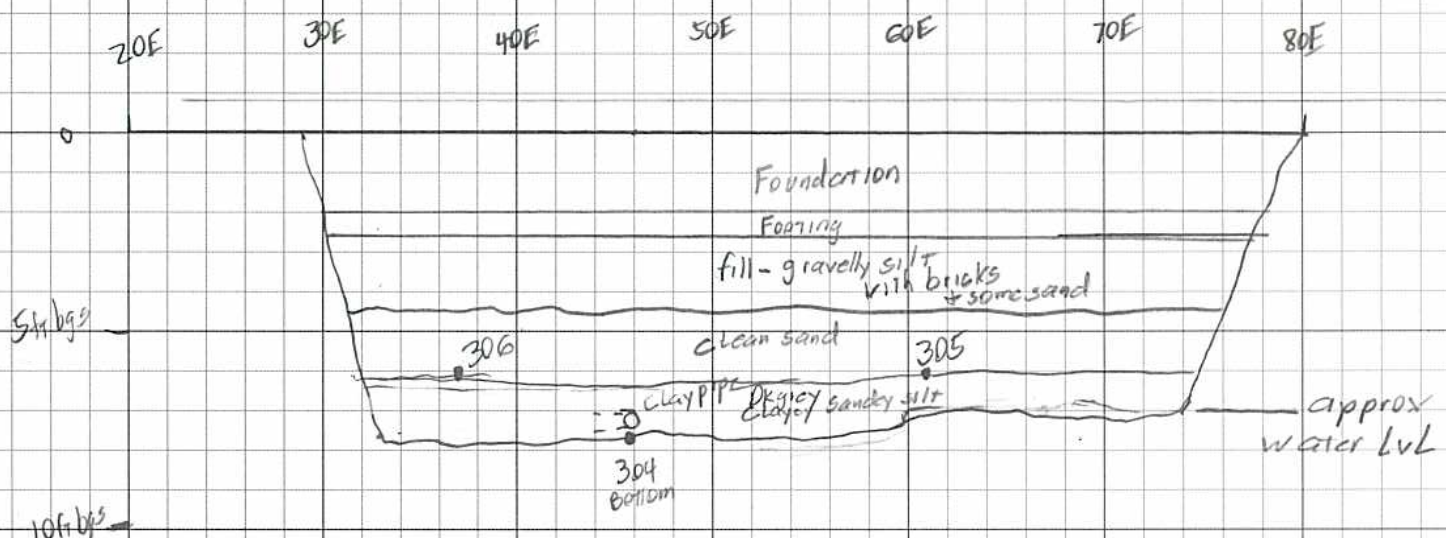
BY Scott Graham DATE _____

CHECKED BY _____ DATE 3/11/08



MACTEC
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 4084075115 SHEET 4 OF 4
PHASE _____ TASK 02.4
JOB NAME Bldg 1063 Ex 1
BY Scott Graham DATE 3/11/08
CHECKED BY _____ DATE _____



North Sidewall

Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 408407515 Task: 02.4

Date: 3/12/07

Project Location: Bldg 1063 Excavation 1

Notes by: Scott Graham

Onsite Personnel: James, Derek, Enrique, Alberto

Site Visitors:

Weather: Cloudy & mild

Site Conditions & Safety Considerations: Slips/Trips/falls, Open Excavations, Moving Equipment

Monitoring Equipment Used: 580B OVM Calibration Date 3/12/08

using 100ppm Isobutylene - reads 102ppm

Number of samples collected: Soil: Ø Water: Ø

COCs Attached	Yes	No
Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite: Mini-Excavator, Bobcat, 5-yrd dump trunk, trash pump

Estimated volume excavated	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards Ø	Bills of Lading Attached	Yes	No

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511S **Task:** 02.4

Date: 3/12/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 915

Discuss revised sampling plan with James

PID range from 79 at 7.5 ft to 100-250 ppm at 8' between columns 6 & 6 + 9+10 - Dig to 8.5 ft - 6.0 on PID

Battery on PID Low using ERRGs PID - 580B OVM which James calibrated this morning using 100 ppm isobutylene

Albert to cleaning out holding tank with high pressure washer & discharging sludge into bermed area of stockpile

Sediments at 8.5 are more clayey then those above may be transistioning to Bay Mud 20% very fine sand, 30% clay, 50% silt, DK Gray, Organic smell

Discuss excavating approach with Derek & James, Looking at historic lead concentrations at 4 & 3.5 ft (SB141 & 143) & difficulty removing soils if left in Place - we may want to remove all soils in an area rather than leave small chunks on east side

1100 remove concrete from between columns 6, 7, 10, & 11 & begin excavating 34N.52E - 200 ppm at 7'; 70-115 ppm at 7.5'; 2.0 ppm at 8' - dig area to 8

Lunch 12-1230

1340 remove concrete from between columns 7 & 11 & begin excavating Water is at 7'10" bgs near column 10 but is differing heights at different locations as some of it is from inside the sonotubes & was released while digging

Derek will continue to 8' between columns 7 & 8 & will remove concrete further east (between columns 7, 8, 11 & 12) but probably won't have time to get to depth tonight

Depart 1410

MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

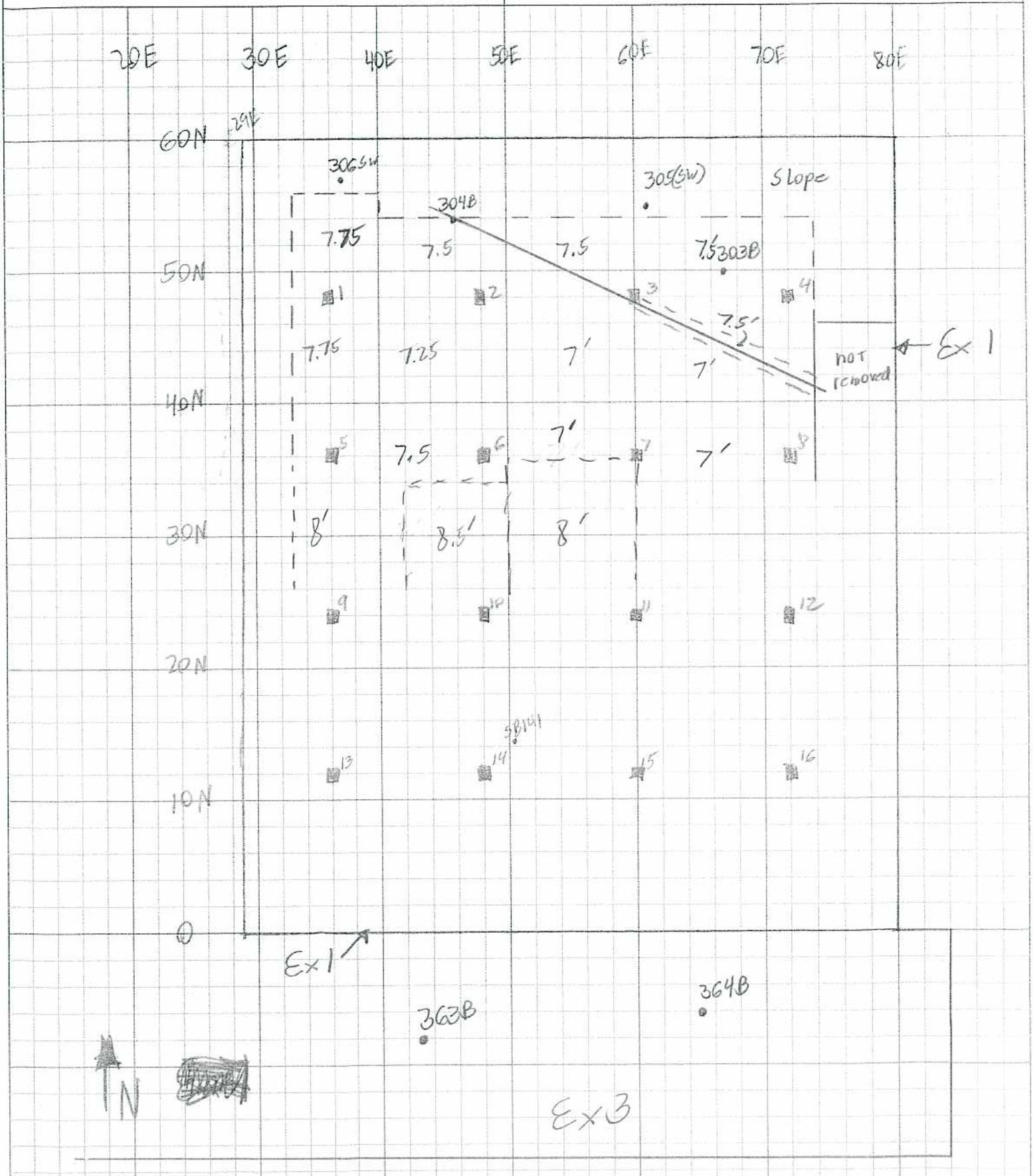
JOB NO. 4084075115 SHEET 3 OF 3

PHASE _____ TASK 02.4

JOB NAME Bldg 1065 Ex 1

BY Scott Graham DATE 3/12/08

CHECKED BY _____ DATE _____



Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 408407511.5 Task: 02.4

Date: 3/13/08

Project Location: Bldg 1063 Excavation 1

Notes by: Scott Graham

Onsite Personnel: Derek, Alberto, Enrique

Site Visitors:

Weather: Clear, breezy + mild, Drizzle in the morning

Site Conditions & Safety Considerations: Open Excavations + holes, Slips/Trips/falls, Moving equipment

Monitoring Equipment Used: Microtip HL-2000 Calibration Date 3/13/08

Calibrate using 100ppm isobutylene

Number of samples collected: Soil: 0 Water: 0	COCs Attached	Yes	No
	Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite: Mini-excavator, 5 yard dump truck, Bobcat

Estimated volume excavated	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled 0	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards 0	Bills of Lading Attached	Yes	No

Daily Field Logs Sheet 2 of 3

Project Name: Building 1065 Area CAP Implementation **Job #** 408407515 **Task:** 02.4

Date: 3/13/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 630

Open Bldg + get Lights going, attend H+S meeting

Calibrate PID

7am continue excavation area between columns 7+11 + clean up stuff that has fallen into excavation

710 - remove concrete between columns 7, 8, 11+12 + begin excavating

7.0ppm at ~~6.5~~ bgs @35N70E, 3.1 ppm at ~~6.5~~ bgs @30N64E - dig section to ~~6.5~~ to 7'

930 remove concrete between colums 8+12 + begin excavating

3.8ppm in SW at 6' bgs - 7' bgs = 30N 72E - No need to go further east

900 - remove concrete SE of column 16 between it + South wall

- begin excavating section 74E-80E + 0-10N

1' bgs there are two pipe travelling near the foundation - one 3" diam metal pipe parallel to foundation + 1 2" metal pipe with a ¾" pipe inside it. at an angle (See pictures), Both are old + corroded, no obvious contamination

Dig section to 2' bgs

1015 - Remove concrete between columns 11+12 + begin excavating

Derek not feeling well - leaves at 1030

3.8 at 6.5 feet between columns 11+12 - go to that depth

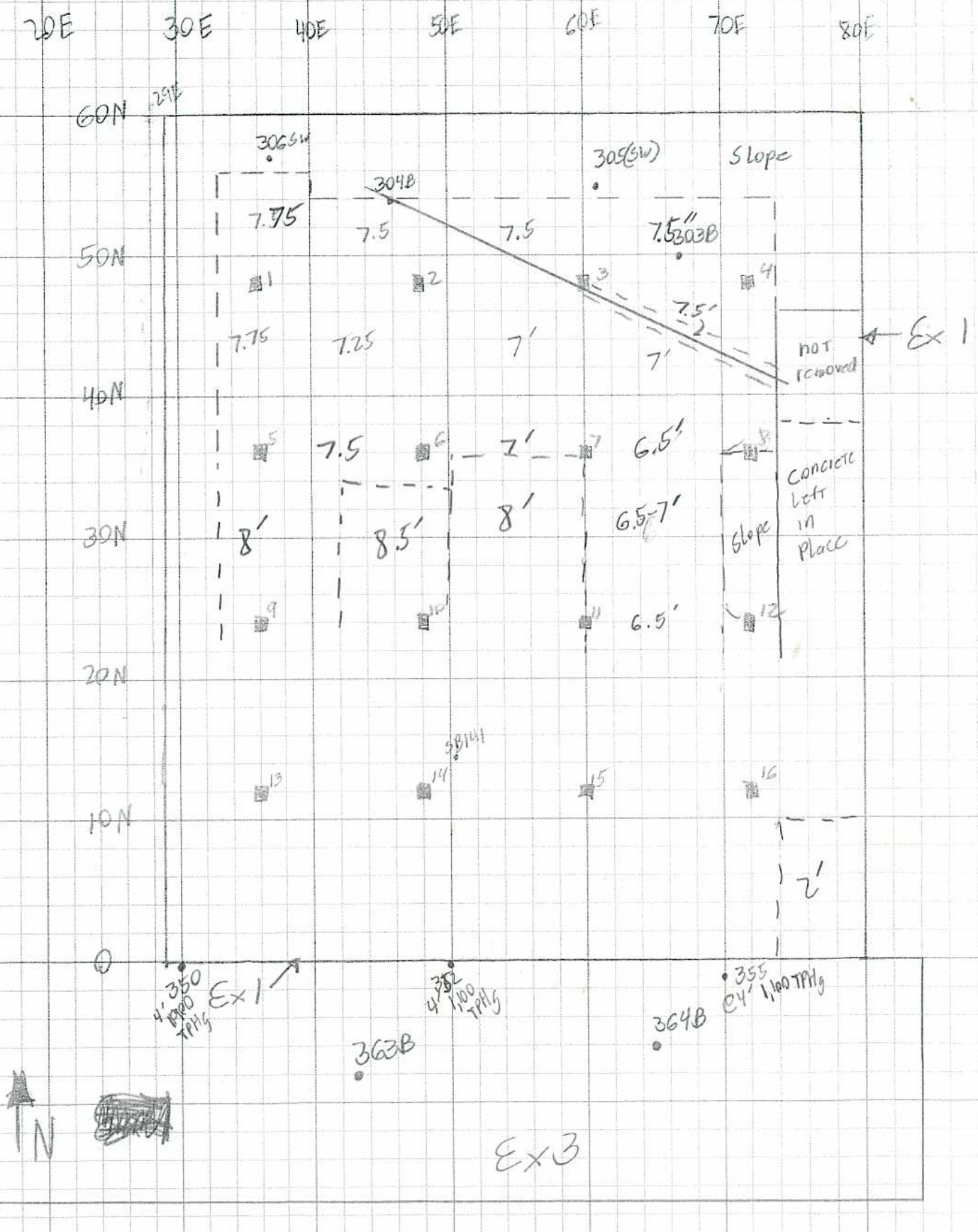
1040 - Remove concrete from between columns 10+11

Depart site 1145

350,352,352

MACTEC
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 4084075115 SHEET 3 OF 3
PHASE _____ TASK 02.4
JOB NAME Bldg 1065 Ex 1
BY Scott Graham DATE 3/13/08
CHECKED BY _____ DATE _____



Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 408407515 Task: 02.4

Date: 3/14/08

Project Location: Bldg 1063 Excavation 1

Notes by: Scott Graham

Onsite Personnel: Derek, Enrique, Alberto

Site Visitors: Ryan Seelbach, Tyson

Weather: Sunny, mild & breezy

Site Conditions & Safety Considerations: Moving Equipment, Open Excavations, Slips/Trips/Fall

Monitoring Equipment Used: Microtip HL-2000 Calibration Date 3/14/08

Number of samples collected: Soil: Ø Water: Ø	COCs Attached	Yes	No
	Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite:

Estimated volume excavated	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards Ø	Bills of Lading Attached	Yes	No

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511.5 **Task:** 02.4

Date: 3/14/08

Notes by: Scott Graham

Materials onsite

Field Notes: On site 9.25

ERRG completed Excavations between columns 10&11, 9&10, & West Sidewall & 9 to Final depth & are beginning slot trench along South wall

Calibrate PID, Review H&S sheet

30ppm at 5N 7E at 6' - dig trench to 6.5' - 5.2 ppm

Trench is bucket width (3.2') & is 4-6 ft N parallell to S wall

Take picture of site - picture times are off by about 1hr - change batteries & reset time (Pic #)

Fill slot trench with 1' gravel & roadbase to surface - compacted with excavator bucket (no testing) - may be removed later - bring whole section to grade with base

1020 remove concrete between column 16 & South wall & extend trench

Ryan on site 1030-1045, Discuss excavation & sampling plan, Ryan would like SW samples of the deeper soils most likely containing petroleum as this is a petroleum case & lead is most likely from the fill, not petroleum

87ppm at 5.5 ft (+odor) at 5N 7E, dig deeper, 7.2 ppm at 6.5 ft bgs

backfill with all roadbase (no rock) to ~~fill~~ surface

1130 - Remove concrete between columns 15&16 & south wall

Tyson on site 1125 - 1215, Discuss foundation shoring

Lunch 1220 - 1240

3.7ppm at 6.5 ft bgs at 5N 5E - Dig trench to 6.5 - Fill with roadbase

Plan to end there & start on West side - digging towards the center from the west side

Depart 1330

MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

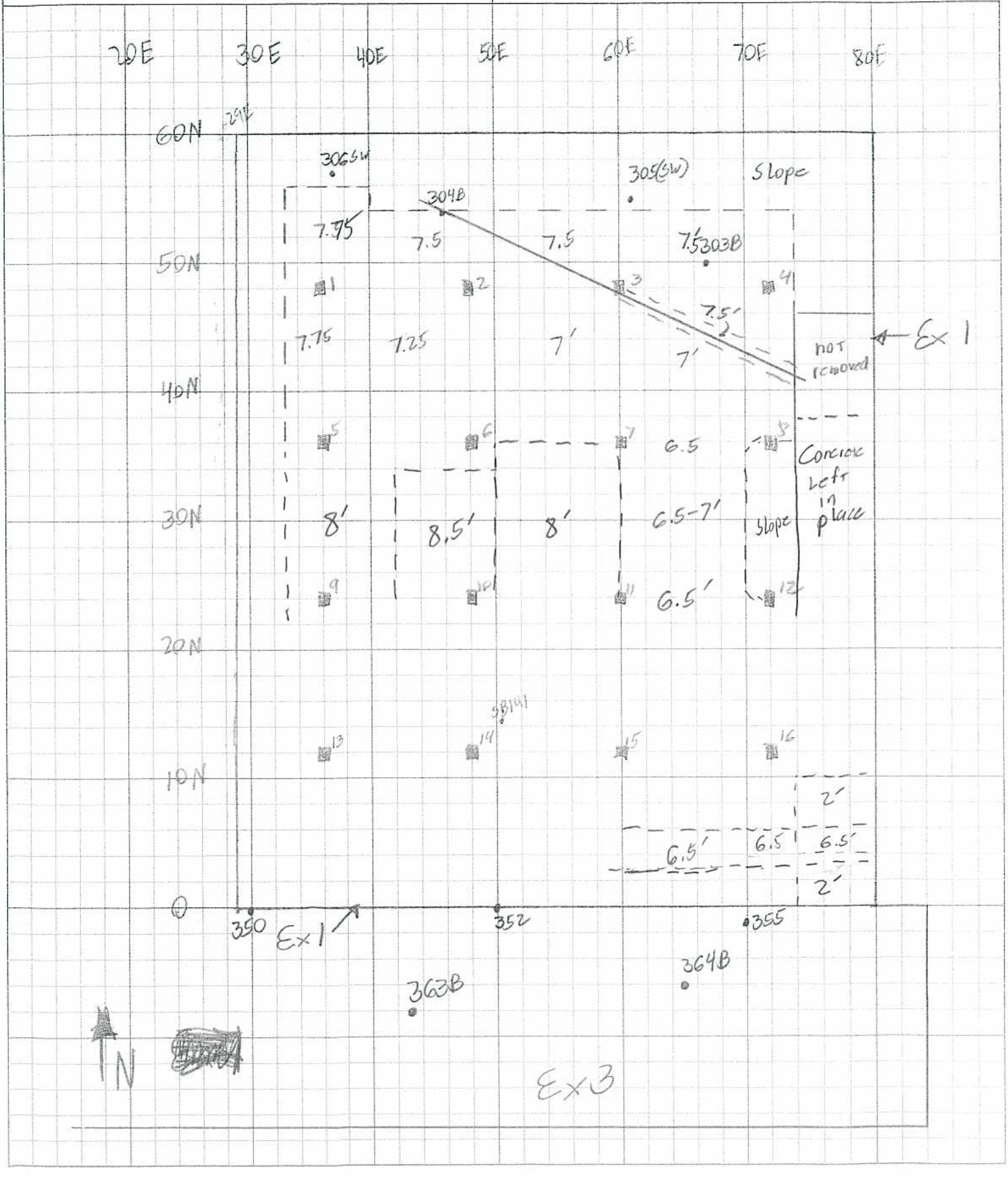
JOB NO. 408407511.5 SHEET 3 OF 3

PHASE _____ TASK 02.4

JOB NAME Bldg 1065 Ex 1

BY Scott Graham DATE _____

CHECKED BY _____ DATE 3/14/08



March 13, 2008. Pipes encountered in the southeast corner of Excavation 1 just below the floor slab. View looking west.

March 14, 2008. View looking southeast from northwest corner of Excavation 1

March 14, 2008. View looking southwest at southeast corner of Excavation 1 from mezzanine.

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Week Ending: March 21, 2008

Summary of Work Performed:

March 17, 2008

- Excavated slot trench from 60E to 80E to 6.5 feet bgs. Filled slot trench with Class II AB and compacted AB with excavator bucket. Width of slot trench in this section is approximately 3 feet (3N to 6N).
- Excavated slot trench from 29E to 48E to 8.5 feet bgs. Filled with Class II AB and compacted AB with excavator bucket. Width of slot trench in this section is approximately 7 feet (3 to 10N).
- Excavated slot trench from 48E to 60E to 8.0 feet deep. Filled with Class II AB and compacted AB with excavator bucket. Width of slot trench in this section is approximately 7 feet (3 to 10N).

March 18, 2008

- Excavated soil between Columns 9 and 13 and west sidewall to 8 feet bgs based on PID readings and proximity to sidewall edge (section near Column 13 excavated at a 4:1 slope – 8 feet deep and 2 feet wide).
- Removed concrete between Columns 9, 10, 13, and 14 and excavated area to 8.5 feet bgs based on PID readings.

March 19, 2008

- Excavated soil between Columns 11, 12, 15 and 16 to 6.0 feet bgs based on PID readings.
- Collected samples 1065EX308 through 1065EX310 from the west sidewall at 50N, 30N, and 10N.
- Collected bottom samples 1065EX311 and 1065EX312 from deepest and shallowest locations in the excavation bottom.
- Collected east sidewall samples 1065EX307, 1065EX313, and 1065EX314 from near 50N, as close to the south sidewall as possible (from pothole excavated for sampling as per NPS's request), and from the eastern portion left in place based on PID readings (near 30N).
- Removed concrete between Columns 15 and 16 and excavated to 6.5 feet bgs.

March 20, 2008

- Removed concrete between Columns 10, 11, 14, and 15 and excavated soil to 8.5 feet bgs on the basis of PID readings.
- 20,000-gallon holding tank removed from site.

March 21, 2008

- Clean up excavation and soil stockpile area
- Break up concrete for disposal/recycling.

Project Milestones Achieved

- Completed Excavation 1.
- Collected initial confirmation soil samples from Excavation 1.

Work Planned:

- Review excavation sample results when reported and assess whether additional excavation would be required.

Attachments:

- Daily Field Logs
- Photographs

Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 408407515 Task: 02.4

Date: 3/17/08

Project Location: Bldg 1063 Ex 1

Notes by: Scott Graham

Onsite Personnel: Derek, Alberto, Enrique

Site Visitors:

Weather: Sunny & mild

Site Conditions & Safety Considerations: Slips/trips/falls, open excavations, moving equipment

Monitoring Equipment Used: Microtip HL-2000 Calibration Date 3/17/08

Calibrate using 100ppm isobutylene

Number of samples collected: Soil: Ø Water: Ø	COCs Attached	Yes	No
	Sample Location Map Attached	Yes	No

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite: Mini-Excavator, 5 yrd dump, Bobcat

Estimated volume excavated	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled Ø	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards	Bills of Lading Attached	Yes	No

Daily Field Logs Sheet 2 of 3

Project Name: Building 1065 Area CAP Implementation **Job #** 408407511S **Task:** 02.4

Date: 3/17/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 645

Calibrate PID, Discuss work schedule - may be down for about a month after I sample on Wednesday for backfilling, before digging under the foundation

Attend H+S meeting

7am - begin slot trench on west side of ex along South wall

83ppm at 8ft @ 34E 5N, go to 8.5 - 0.3 ppm

Widen slot trench on west side (to the north) due to depth of contamination

Sediments are a silty sand (Dk gray) at 9'

Remove concrete from between columns 13 + 14 south wall

Call Lab + schedule sample pickup between noon + 1pm on Wednesday

Fill up western section of slot trench with road base + compact with backhoe bucket

910 - Begin excavating slot trench from 36-48E, 4.2 ppm at 8.5

Soils consist of 6" concrete cap, 2" fine clean sand, 1' fill - sandy silt with some gravel + brick fragments, 8" to 1' of lighter fill - 30% clay, 20% very fine gr sand, 50% silt, 2' clean brown sand, + then dk gray fine grained sand with increasing clay with depth

1035 - Fill Section with roadbase 8.5' to surface, 6" gravel on bottom

1135 - Remove concrete from area between columns 14 + 15 + the South wall

Depart 1150

MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

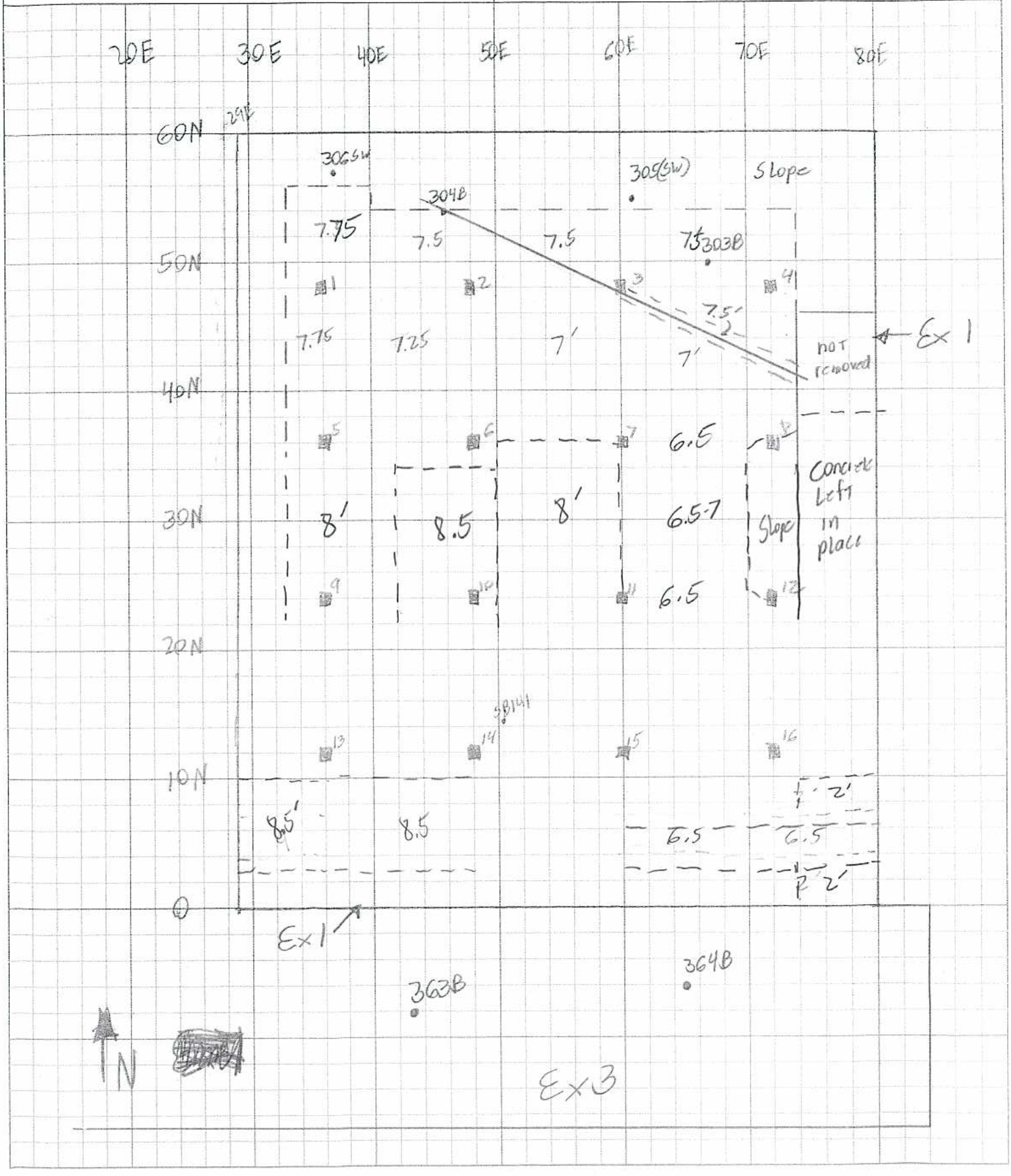
JOB NO. 4084075115 SHEET 3 OF 3

PHASE _____ TASK 02.4

JOB NAME Bldg 1065 Ex 1

BY Scott Graham DATE _____

CHECKED BY _____ DATE 3/17/08



Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 4084075115 Task: 02.4

Date: 3/18/08

Project Location: Bldg 1063 Ex 1

Notes by: Scott Graham

Onsite Personnel: Derek, Alberto, Enrique

Site Visitors:

Weather: Sunny, clear, & mild

Site Conditions & Safety Considerations: Slips/trips/falls, open excavations, moving equipment

Monitoring Equipment Used: Microtip HL-2000 Calibration Date: 3/18/8

Number of samples collected: Soil: 0 Water: 0

COCs Attached	Yes	(No)
Sample Location Map Attached	Yes	(No)

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite:

Estimated volume excavated	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled 0	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards 0	Bills of Lading Attached	Yes	No

Daily Field Logs Sheet 2 of 3

Project Name: Building 1065 Area CAP Implementation **Job #** 4084075115 **Task:** 02.4

Date: 3/18/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 1035

Slot trench has been completed & area west of columns 9+13 dug to 6.5' - still has odor

Calibrate PID

144ppm at 8' bgs@10N31E - cant go any deeper without risking undermining sidewall is already 4 to 1 in this location

88ppm at 7' bgs@16N33E on sidewall

Lunch 12-1230

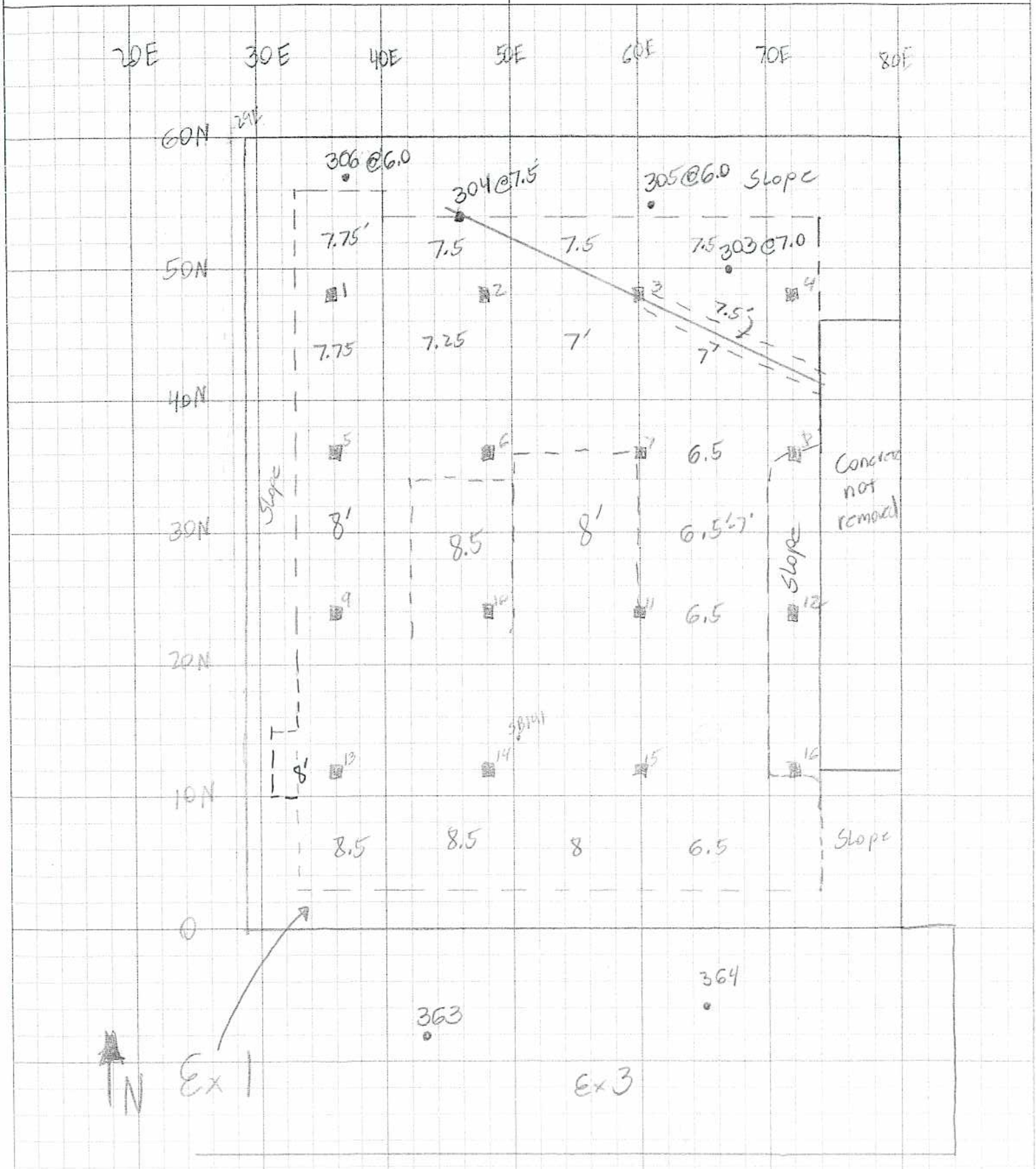
1330 remove concrete from between columns 9,10,13&14 & begin excavating

Depart 1445 - excavated section about ½ way

144 ppm

MACTEC
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 4084075115 SHEET 3 OF 3
PHASE _____ TASK 02.4
JOB NAME Bldg 1065 Ex 1
BY Scott Graham DATE 3/18/08
CHECKED BY _____ DATE _____



Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 408407515 Task: 02.4

Date: 3/19/08

Project Location: Bldg 1063 Ext

Notes by: Scott Graham

Onsite Personnel: Derek, Alberto, Enrique

Site Visitors:

Weather: Overcast + cool

Site Conditions & Safety Considerations: open excavations, moving equipment, slips/trips/falls

Monitoring Equipment Used: HL-2000 Microtip Calibration Date 3/19/08

Number of samples collected: Soil: 8 + DUP Water:

COCs Attached (Yes) No

Sample Location Map Attached (Yes) No

Time Collected	Sample ID	Depth	Notes
1005	1065EX307 [6.0]	6	SW
1025	1065EX308 [6.0]	6	SW
1040	1065EX309 [6.5]	6.5	SW
1105	1065EX310 [7.0]	7	SW
1125	1065EX311 [8.5] + DUP031908	8.5	B
1150	1065EX312 [6.0]	6	B
1200	1065EX313 [4.5]	4.5	SW
1215	1065EX314 [5.5]	5.5	SW

Contractor Equipment Onsite: Minicx, Bobcat, 5yd dump

Estimated volume excavated — Site Plan Attached Yes No

Truck Loads of Soil Off-Hauled 0 — Manifests/Bills of Lading Attached Yes No

Imported Backfill Truckloads or Cubic Yards — Bills of Lading Attached Yes No

Daily Field Logs Sheet 2 of 3

Project Name: Building 1065 Area CAP Implementation **Job #** 408407.5115 **Task:** 02.4

Date: 3/19/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 900

Talk to Derek re ex + sampling

Derek currently excavating between columns 11, 12, 15, + 16, 0.2 ppm at 6.5' bgs, 2.7 ppm on east sidewall at 5.5', continue east between columns 12 + 16 - 0.0 ppm at 5.5' @ 16N 72E - stop there

930 remove concrete between columns 12 + 16 + between columns 15 + 16 0.5 ppm at 6.0' @ 10N 70E

Remove concrete between columns 10 + 14 at 1115 + begin ex

Collect all samples

Pothole for sample 1065EX313 near southwall west sidewall sample

Courier onsite to p/u samples 1230 - ~backfill with AB

Take Photos of SMG

Discuss remaining ex (Between columns 10, 11, 14 + 15) + (small section between 8N-12N + 60E-66E)

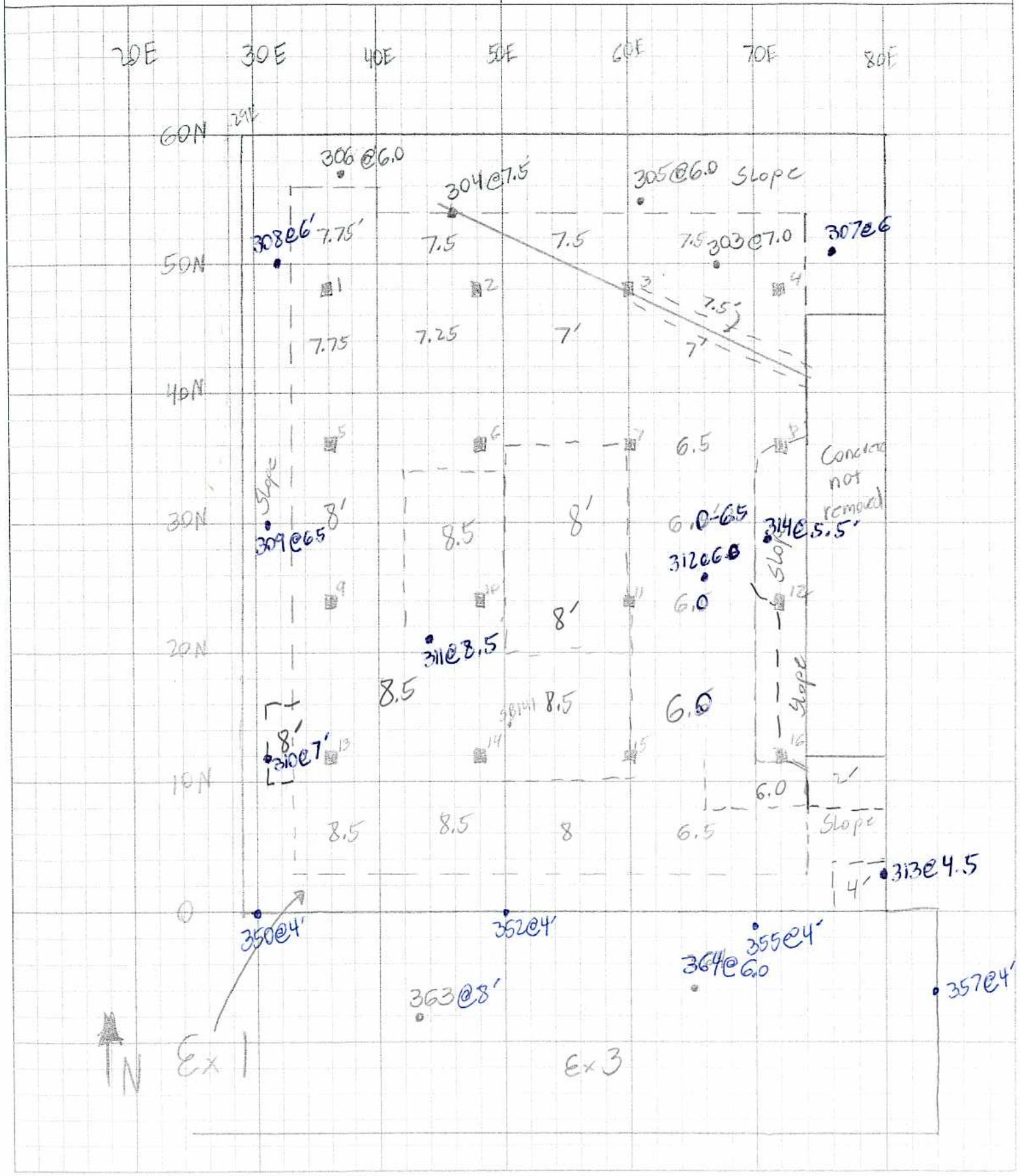
Clean up tools + equipment

Depart 1325

0.5

MACTEC
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

JOB NO. 4084075115 SHEET 3 OF 3
PHASE _____ TASK 02.4
JOB NAME Bldg 1065 Ex 1
BY Scott Graham DATE _____
CHECKED BY _____ DATE _____



Slot Trench – Southeast corner of excavation. Looking towards the southeast. Trench depth is 6.5 feet.

Slot Trench – 40E to 50E. Looking towards the east. Trench depth is 8.5 feet.

Area between columns 9 and 13 from the southwest. Depth of excavation is 8.5 feet.

Location of Sample 1065EX313 from the west. Southeast corner of Excavation 1. Pothole is 4.5 feet deep.

Sample Locations 1065EX312 and 1065EX314 (white flags) from the southwest. Columns 8 and 12 shown.

Sample Locations 1065EX308, 1065EX306, and 1065EX304 shown (white flags left to right) from the southeast.

Sample Location 1065EX310 (white flag) from the northeast.

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation Activities

Weeks Ending: March 28 and April 4, 2008

Summary of Work Performed:

WEEK ENDING MARCH 28, 2008

March 24, 2008

- Removed remaining concrete from excavation area.
- Continued breaking up concrete for disposal/recycling.

March 25, 2008

- Completed breaking up concrete.
- Began hauling off of concrete for disposal/recycling.

March 26, 2008

- Removed soil left in place on eastern sidewall. Bottom of slope at approximately 75E.
- Collected sidewall sample 1065EX315 at 5 foot bgs from over-excavated eastern sidewall.

March 27, 2008

- Drain rock shipped to the site.
- Began placement of drain rock in excavation.

March 28, 2008

- Surveyed excavation limits and soil sample locations.

WEEK ENDING APRIL 4, 2008

- ERRG installed drain rock in Excavation 1 from bottom to approximately 4.5 feet bgs.
- Began installing and compacting road base/AB in 6-inch lifts from approximately 4.5 feet bgs to 1.5 feet bgs.
- Off-hauled and disposed of concrete from Excavation 1.

Project Milestones Achieved

- Completed Excavation 1 and began backfill activities.
- Collected confirmation soil sample from eastern sidewall.

Work Planned:

- Complete backfilling of Excavation 1.
- Replace footings and building support columns to original grade.

Attachments:

- Daily Field Logs
- Photographs

Daily Field Log Sheet 1 of 3

Project Name: Building 1065 Area CAP Implementation Job # 4084025115 Task: 024

Date: 3/26/08

Project Location: Bldg 1063 Ex 1

Notes by: Scott Graham

Onsite Personnel: Derek, Alberto

Site Visitors:

Weather: Sunny, clear, + breezy

Site Conditions & Safety Considerations: Open holes, Moving equipment, Vehicle exhaust, slips/trips/falls

Monitoring Equipment Used: OVM Model 580B - Unit #4 Calibration Date 3/26/08
calibrated at office using 100 ppm isobutylene

Number of samples collected: Soil: 1 Water: 0

COCs Attached	(Yes)	No	
Sample Location Map Attached	(Yes)	No	

Time Collected	Sample ID	Depth	Notes

Contractor Equipment Onsite: Mini-ex, 5 yrd dump, Bobcat

Estimated volume excavated	Site Plan Attached	Yes	No
Truck Loads of Soil Off-Hauled	Manifests/Bills of Lading Attached	Yes	No
Imported Backfill Truckloads or Cubic Yards	Bills of Lading Attached	Yes	No

Project Name: Building 1065 Area CAP Implementation Job # 408407515 Task: 02.4

Date: 3/26/08

Notes by: Scott Graham

Materials onsite

Field Notes: Onsite 905

Derek & Alberto currently onsite digging east sidewall of ex 1

Holding tank has been removed from the site, & all concrete broken up & ready for disposal/recycle

Make sample labels clean up site

1045 Collect east sidewall sample

Courier onsite 1115 to p/u sample

Slope east SW on a 1:1 slope from 80E to bottom 6-6.5 bgs - bottom of slope at 75E

Take pictures of site

Depart 1140

MACTEC

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

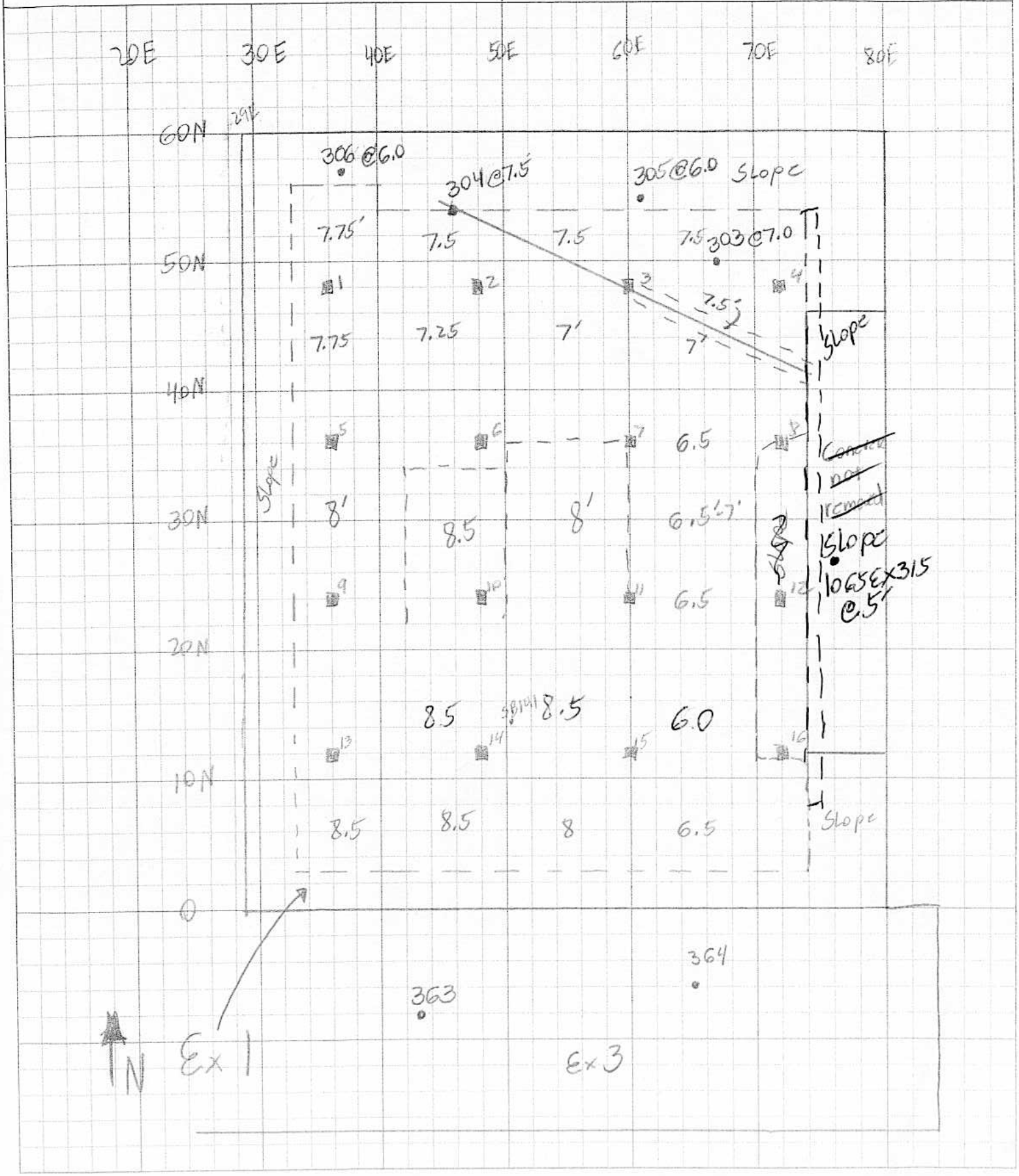
JOB NO. 4084075115 SHEET 3 OF 3

PHASE _____ TASK 02.4

JOB NAME Bldg 1065 Ex 1

BY Scott Graham DATE 3/26/08

CHECKED BY _____ DATE _____



Excavating eastern sidewall to its final limits - looking northwest.

Excavating eastern sidewall to final limits – looking northeast.

PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation and Soil Vapor Sampling Activities

Weeks Ending: April 11, 18, 25 and May 2, 9, 16, and 23, 2008

Summary of Work Performed:

Weeks ending April 11, 18, 25, and May 2:

- Completed backfill and compaction of Excavation 1
- Poured concrete footings for the building foundations, shored up temporary sections, replaced temporary support columns with the final supports, and removed shoring for the first three rows (12 columns).
- Loaded, hauled, and disposed of 78 loads of non-RCRA Class 1 hazardous waste to the Kettleman Hills Facility.
- On April 18 and 19, 2008, EKIG collected soil vapor samples from the vicinity of Building 1040 in accordance with the Building 1040 Indoor Air and Cap Assessment Work Plan.

Week ending May 9, 2008:

- Excavated and removed the 12-inch ID clay pipe exiting the western end of Excavation 3. Trench was approximately 2 feet wide by 8 feet deep by 60 feet long.
- Collected confirmation soil samples (bottom samples) 1065EX368[8.0], 1065EX369[8.0], and 1065EX370[8.0] from the trench.

Week ending May 16, 2008:

- Continued excavation of 12-inch ID clay pipe across the parking lot west of Building 1065.
- Encountered and removed an inactive utility vault. The vault was brick with an iron cover at approximately 1 foot bgs. The 12-inch ID pipe exited the vault from the west (bottom of pipe at approx. 8 ft bgs).
- Two additional pipes entered the vault: an approximate 18-inch ID clay pipe entered from the east (bottom of the pipe at approx. 7 ft bgs), and a 10-inch ID clay pipe entered from the southeast (bottom of the pipe at approx. 6.5 feet bgs).
- Vault was filled with gravel and black sludge was observed inside of the pipe. Black material was not observed in pipes on the other side of the vault.
- Excavated an additional 6 feet of pipe on opposite sides of the vault to confirm the absence of black material within the pipes.
- Collected confirmation soil sample 1065EX371[8.0] adjacent to the bottom of the vault.
- Collected sediment samples 1065SD101[6.5] and 1065SD102[7.0] from inside the two pipes entering the manhole. Put samples on hold at laboratory.
- Cleaned up inside Building 1063, and tore down and removed construction fences.

Week ending May 23, 2008:

- ERRG collected and submitted to the laboratory a composite soil stockpile sample of the soils removed from the trench. Waiting on approval to backfill trench.

Work Planned:

- Backfill and compact trench.
- Inspect cap at Building 1040.

Attachments:

- Photographs

Looking northwest from former Building 1065 at start of excavation for removal of the 12 inch ID clay pipe that entered the west side of Excavation 3.

Inside of Building 1063 showing final grade and finished support columns.

Section of 12-inch pipe removed from trench– shows black sediment from inside of pipe.

Looking east at former location of unknown drain manhole just west of the active storm drain (concrete pipe crossing excavation in middle of picture).

Looking southeast at 10-inch ID clay pipe entering unknown vault.

Looking west at 18-inch ID pipe entering unknown vault.

Remains of the former sewer line vault removed from the trench. The manhole cover was located at approximately 1 foot bgs and the vault was filled with gravel.

Confirmation Sample Analytical Results
Clay Pipe Removal - TPH
Building 1065 Area CAP Implementation

		Analyte Cleanup Level	TPH Diesel (C12-C24) 115 mg/kg		TPH Fuel Oil (C24-C36) 160 mg/kg		TPH Gasoline (C7-C12) 100 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual
1065EX368	1065EX368[8.0]	09-May-08	**2.5**	**/Y**	**10.**		**0.093**	**/J**
1065EX369	1065EX369[8.0]	09-May-08	**6.7**	**/Y**	**21.**		**1.9**	**/Y**
1065EX370	1065EX370[8.0]	09-May-08	**12.**	**/Y**	**73.**		ND(0.27)	U
	DUP050908	09-May-08	**13.**	**/Y**	**60.**		ND(0.24)	U
1065EX371	1065EX371[8.0]	13-May-08	**0.56**	**/J**	**3.7**	**/J**	ND(0.23)	U

U Data were qualified as nondetect during Level II validation based on blank contamination
mg/kg Milligrams per kilogram
Preliminary report, data have not undergone Level III validation
ND(0.29) Not detected at reporting limit indicated in parentheses

Confirmation Sample Analytical Results
Clay Pipe Removal - PAHs
Building 1065 Area CAP Implementation

		Analyte	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
		Cleanup Level	**- mg/kg**	**2700 mg/kg**	**- mg/kg**	**308 mg/kg**	**0.43 mg/kg**	**0.04 mg/kg**	**0.43 mg/kg**	**620 mg/kg**	**0.43 mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX368	1065EX368[8.0]	09-May-08	**0.0018 /J**	**0.0011 /J**	ND(0.0061)	ND(0.0061)	**0.002 /J**	**0.0024 /J**	**0.0037 /J**	**0.0026 /J**	ND(0.0061)
1065EX369	1065EX369[8.0]	09-May-08	**0.0081**	**0.0022 /J**	**0.00087 /J**	**0.0033 /J**	**0.021**	**0.04**	**0.07**	**0.11**	**0.015**
1065EX370	1065EX370[8.0]	09-May-08	**0.0018 /J**	ND(0.0069)	**0.0015 /J**	ND(0.0069)	**0.01**	**0.019**	**0.041**	**0.041**	**0.0096**
	DUP050908	09-May-08	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)	ND(0.0065)
1065EX371	1065EX371[8.0]	13-May-08	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)

-- Indicates no Presidio cleanup level
mg/kg Milligrams per kilogram
Preliminary report, data have not undergone Level III validation
ND(0.29) Not detected at reporting limit indicated in parentheses

Confirmation Sample Analytical Results
Clay Pipe Removal - PAHs
Building 1065 Area CAP Implementation

		Analyte	Chrysene		Dibenzo(a,h) anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
		Cleanup Level	**4.3 mg/kg**		**0.078 mg/kg**		**316 mg/kg**		**60 mg/kg**		**0.27 mg/kg**		**9 mg/kg**		**86 mg/kg**		**241 mg/kg**	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX368	1065EX368[8.0]	09-May-08	**0.0036**	**/J**	ND(0.0061)		**0.0049**	**/J**	ND(0.0061)		**0.0018**	**/J,b**	**0.0033**	**/J**	**0.0041**	**/J**	**0.0092**	
1065EX369	1065EX369[8.0]	09-May-08	**0.022**		**0.022**		**0.012**		**0.0012**	**/J**	**0.085**		**0.014**		**0.0097**		**0.016**	
1065EX370	1065EX370[8.0]	09-May-08	**0.016**		**0.0045**	**/J**	**0.017**		ND(0.0069)		**0.027**		**0.0026**	**/J**	**0.0055**	**/J**	**0.023**	
	DUP050908	09-May-08	ND(0.0065)		ND(0.0065)		ND(0.0065)		ND(0.0065)		ND(0.0065)		ND(0.0065)		ND(0.0065)		ND(0.0065)	
1065EX371	1065EX371[8.0]	13-May-08	ND(0.006)		ND(0.006)		ND(0.006)		ND(0.006)		ND(0.006)		ND(0.006)		ND(0.006)		ND(0.006)	

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary report, data have not undergone Level III validation	
	Not detected at reporting limit
ND(0.29)	indicated in parentheses

Confirmation Sample Analytical Results
Clay Pipe Removal - VOCs
Building 1065 Area CAP Implementation

		Analyte	Benzene	Ethylbenzene	Toluene	Xylenes (m&p-)	Xylenes (o-)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
		Cleanup Level	**0.005 mg/kg**	**13 mg/kg**	**1 mg/kg**	**33 mg/kg**	**33 mg/kg**	**- mg/kg**	**8 mg/kg**	**0.0091 mg/kg**	**0.032 mg/kg**	**0.2 mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)
1065EX369	1065EX369[8.0]	09-May-08	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)
1065EX370	1065EX370[8.0]	09-May-08	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)
	DUP050908	09-May-08	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)
1065EX371	1065EX371[8.0]	13-May-08	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary report, data have not undergone Level III validation	
ND(0.29)	Not detected at reporting limit indicated in parentheses
U	Data were qualified as nondetect during Level II validation based on blank contamination

Confirmation Sample Analytical Results
Clay Pipe Removal - VOCs
Building 1065 Area CAP Implementation

		Analyte Cleanup Level	1,1-Dichloroethene - mg/kg		1,1-Dichloropropene - mg/kg		1,2,3-Trichlorobenzene - mg/kg		1,2,3-Trichloropropane - mg/kg		1,2,4-Trichlorobenzene - mg/kg		1,2,4-Trimethylbenzene - mg/kg		1,2-Dibromo-3-chloropropane - mg/kg		1,2-Dibromoethane - mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX369	1065EX369[8.0]	09-May-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)	
1065EX370	1065EX370[8.0]	09-May-08	ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)	
	DUP050908	09-May-08	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX371	1065EX371[8.0]	13-May-08	ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)	

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary	report, data have not undergone Level III validation
ND(0.29)	Not detected at reporting limit indicated in parentheses
U	Data were qualified as nondetect during Level II validation based on blank contamination

Confirmation Sample Analytical Results
Clay Pipe Removal - VOCs
Building 1065 Area CAP Implementation

		Analyte	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene (cis)	1,2-Dichloroethene (trans)	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane
		Cleanup Level	**- mg/kg**	**0.0045 mg/kg**	**0.19 mg/kg**	**0.67 mg/kg**	**0.052 mg/kg**	**- mg/kg**	**- mg/kg**	**- mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)
1065EX369	1065EX369[8.0]	09-May-08	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)
1065EX370	1065EX370[8.0]	09-May-08	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)
	DUP050908	09-May-08	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)
1065EX371	1065EX371[8.0]	13-May-08	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary report, data have not undergone Level III validation	
ND(0.29)	Not detected at reporting limit indicated in parentheses
U	Data were qualified as nondetect during Level II validation based on blank contamination

Confirmation Sample Analytical Results
Clay Pipe Removal - VOCs
Building 1065 Area CAP Implementation

		Analyte	1,3-Dichloropropene (cis)	1,3-Dichloropropene (trans)	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene
		Cleanup Level	**0.033 mg/kg**	**0.033 mg/kg**	**- mg/kg**	**- mg/kg**	**3.9 mg/kg**	**- mg/kg**	**2.8 mg/kg**	**- mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	**0.0027 /J**	ND(0.0053)	ND(0.011)	ND(0.0053)
1065EX369	1065EX369[8.0]	09-May-08	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	**0.0022 /J**	ND(0.0052)	ND(0.01)	ND(0.0052)
1065EX370	1065EX370[8.0]	09-May-08	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	**0.0014 /J**	ND(0.0068)	ND(0.014)	ND(0.0068)
	DUP050908	09-May-08	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	**0.0012 /J**	ND(0.0062)	ND(0.012)	ND(0.0062)
1065EX371	1065EX371[8.0]	13-May-08	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	**0.0014 /J**	ND(0.0058)	ND(0.012)	ND(0.0058)

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary report, data have not undergone Level III validation	
ND(0.29)	Not detected at reporting limit indicated in parentheses
U	Data were qualified as nondetect during Level II validation based on blank contamination

Confirmation Sample Analytical Results
Clay Pipe Removal - VOCs
Building 1065 Area CAP Implementation

		Analyte	4-Methyl-2-pentanone	Acetone	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide
		Cleanup Level	**2.7 mg/kg**	**0.24 mg/kg**	**- mg/kg**	**- mg/kg**	**0.014 mg/kg**	**2.2 mg/kg**	**0.22 mg/kg**	**200 mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.011)	**0.013 /J**	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.011)	ND(0.0053)
1065EX369	1065EX369[8.0]	09-May-08	ND(0.01)	**0.0078 /J**	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.01)	ND(0.0052)
1065EX370	1065EX370[8.0]	09-May-08	ND(0.014)	**0.0053 /J**	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.014)	ND(0.0068)
	DUP050908	09-May-08	ND(0.012)	**0.0046 /J**	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.0062)	ND(0.012)	ND(0.0062)
1065EX371	1065EX371[8.0]	13-May-08	ND(0.012)	**0.0055 /J**	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.012)	ND(0.0058)

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary report, data have not undergone Level III validation	
ND(0.29)	Not detected at reporting limit indicated in parentheses
U	Data were qualified as nondetect during Level II validation based on blank contamination

Confirmation Sample Analytical Results
Clay Pipe Removal - VOCs
Building 1065 Area CAP Implementation

		Analyte	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Dibromomethane	Dichlorodifluoro methane
		Cleanup Level	**0.012 mg/kg**	**1.5 mg/kg**	**0.63 mg/kg**	**0.098 mg/kg**	**0.29 mg/kg**	**0.019 mg/kg**	**- mg/kg**	**- mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.0053)	ND(0.0053)	ND(0.011)	ND(0.0053)	ND(0.011)	ND(0.0053)	ND(0.0053)	ND(0.011)
1065EX369	1065EX369[8.0]	09-May-08	ND(0.0052)	ND(0.0052)	ND(0.01)	ND(0.0052)	ND(0.01)	ND(0.0052)	ND(0.0052)	ND(0.01)
1065EX370	1065EX370[8.0]	09-May-08	ND(0.0068)	ND(0.0068)	ND(0.014)	ND(0.0068)	ND(0.014)	ND(0.0068)	ND(0.0068)	ND(0.014)
	DUP050908	09-May-08	ND(0.0062)	ND(0.0062)	ND(0.012)	ND(0.0062)	ND(0.012)	ND(0.0062)	ND(0.0062)	ND(0.012)
1065EX371	1065EX371[8.0]	13-May-08	ND(0.0058)	ND(0.0058)	ND(0.012)	ND(0.0058)	ND(0.012)	ND(0.0058)	ND(0.0058)	ND(0.012)

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary report, data have not undergone Level III validation	
ND(0.29)	Not detected at reporting limit indicated in parentheses
U	Data were qualified as nondetect during Level II validation based on blank contamination

Confirmation Sample Analytical Results
Clay Pipe Removal - VOCs
Building 1065 Area CAP Implementation

		Analyte Cleanup Level	Freon 113 - mg/kg		Hexachlorobutadiene - mg/kg		Isopropylbenzene - mg/kg		Methylene chloride 0.076 mg/kg		Methyl-tert-butyl ether 0.023 mg/kg		Naphthalene 9 mg/kg		n-Butylbenzene - mg/kg		n-Propylbenzene - mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.021)	U	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)	
1065EX369	1065EX369[8.0]	09-May-08	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.021)	U	ND(0.0052)		ND(0.0052)		**0.00088**	**/J**	ND(0.0052)	
1065EX370	1065EX370[8.0]	09-May-08	ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.027)	U	ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)	
	DUP050908	09-May-08	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.025)	U	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)	
1065EX371	1065EX371[8.0]	13-May-08	ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.023)	U	ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)	

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary report, data have not undergone Level III validation	
ND(0.29)	Not detected at reporting limit indicated in parentheses
U	Data were qualified as nondetect during Level II validation based on blank contamination

Confirmation Sample Analytical Results
Clay Pipe Removal - VOCs
Building 1065 Area CAP Implementation

		Analyte	p-Isopropyltoluene		sec-Butylbenzene		Styrene		tert-Butylbenzene		Tetrachloroethene		Trichloroethene		Trichlorofluoro methane		Vinyl acetate	
		Cleanup Level	- mg/kg		- mg/kg		1.5 mg/kg		- mg/kg		0.087 mg/kg		0.26 mg/kg		- mg/kg		430 mg/kg	
Station Name	Sample Number	Sample Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.0053)		ND(0.053)	
1065EX369	1065EX369[8.0]	09-May-08	ND(0.0052)		**0.00049**	**/J**	ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.0052)		ND(0.052)	
1065EX370	1065EX370[8.0]	09-May-08	ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.0068)		ND(0.068)	
	DUP050908	09-May-08	ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.0062)		ND(0.062)	
1065EX371	1065EX371[8.0]	13-May-08	ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.0058)		ND(0.058)	

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary report, data have not undergone Level III validation	
ND(0.29)	Not detected at reporting limit indicated in parentheses
U	Data were qualified as nondetect during Level II validation based on blank contamination

Confirmation Sample Analytical Results
Clay Pipe Removal - VOCs
Building 1065 Area CAP Implementation

		Analyte	**Vinyl chloride**	
		Cleanup Level	**0.0067 mg/kg**	
Station Name	Sample Number	Sample Date	Value	Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.011)	
1065EX369	1065EX369[8.0]	09-May-08	ND(0.01)	
1065EX370	1065EX370[8.0]	09-May-08	ND(0.014)	
	DUP050908	09-May-08	ND(0.012)	
1065EX371	1065EX371[8.0]	13-May-08	ND(0.012)	

--	Indicates no Presidio cleanup level
mg/kg	Milligrams per kilogram
Preliminary report, data have not undergone Level III validation	
ND(0.29)	Not detected at reporting limit indicated in parentheses
U	Data were qualified as nondetect during Level II validation based on blank contamination

Confirmation Sample Analytical Results
Clay Pipe Removal - Metals
Building 1065 Area CAP Implementation

		Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury
		Cleanup Level	**29 mg/kg**	**5.9 mg/kg**	**5000 mg/kg**	**140 mg/kg**	**1.7 mg/kg**	**1200 mg/kg**	**4000 mg/kg**	**230 mg/kg**	**400 mg/kg**	**20 mg/kg**
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.61)	**2.8**	**42.**	**0.15**	**0.56**	**54.**	**7.1**	**6.1**	**8.4**	**0.084**
1065EX369	1065EX369[8.0]	09-May-08	ND(0.6)	**2.6**	**43.**	**0.17**	**0.55**	**50.**	**6.4**	**13.**	**6.3**	**0.11**
1065EX370	1065EX370[8.0]	09-May-08	ND(0.69)	**2.2**	**71.**	**0.26**	**1.4**	**95.**	**8.4**	**12.**	**9.2**	**0.43**
	DUP050908	09-May-08	ND(0.65)	**3.0**	**74.**	**0.24**	**1.4**	**92.**	**8.4**	**11.**	**11.**	**0.012 /J**
1065EX371	1065EX371[8.0]	13-May-08	**1.7**	**2.1**	**64.**	**0.25**	ND(0.3)	**91.**	**12.**	**4.2**	**3.6**	ND(0.024)

mg/kg Milligrams per kilogram

Preliminary report, data have not undergone Level III validation

ND(0.29) Not detected at reporting limit indicated in parentheses

Confirmation Sample Analytical Results
Clay Pipe Removal - Metals
Building 1065 Area CAP Implementation

		Analyte	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		Cleanup Level	360 mg/kg	1400 mg/kg	360 mg/kg	360 mg/kg	5.7 mg/kg	650 mg/kg	22000 mg/kg
Station Name	Sample Number	Sample Date	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1065EX368	1065EX368[8.0]	09-May-08	ND(0.3)	**40.**	ND(0.61)	**0.13 /J**	ND(0.61)	**34.**	**26.**
1065EX369	1065EX369[8.0]	09-May-08	**0.10 /J**	**36.**	ND(0.6)	**0.13 /J**	ND(0.6)	**28.**	**20.**
1065EX370	1065EX370[8.0]	09-May-08	ND(0.35)	**48.**	ND(0.69)	**0.25 /J**	ND(0.69)	**61.**	**59.**
	DUP050908	09-May-08	ND(0.32)	**47.**	ND(0.65)	**0.25 /J**	ND(0.65)	**62.**	**50.**
1065EX371	1065EX371[8.0]	13-May-08	**0.16 /J**	**45.**	ND(0.6)	**0.052 /J**	**0.32 /J**	**51.**	**26.**

mg/kg Milligrams per kilogram

Preliminary report, data have not undergone Level III validation

ND(0.29) Not detected at reporting limit indicated in parentheses

MACTEC

LEGEND

- EXCAVATION CONFIRMATION SAMPLE EXCEEDING CLEANUP LEVELS
- EXCAVATION CONFIRMATION SAMPLE NOT EXCEEDING CLEANUP LEVELS
- EXCAVATION AREA BOUNDARY
- PREVIOUS EXCAVATION AREA BOUNDARY
- BOUNDARY OF FILL SITE 6B INVESTIGATION AREA
- EXISTING BUILDING
- 15 — TOPOGRAPHIC CONTOURS IN NAVD 88; CONTOUR INTERVAL 1 FOOT

1065EX313	4.5
TPH Diesel	200

Station; Sample Depth (feet below ground surface); Concentrations in Mg/Kg; Analyte

Note: Only results exceeding cleanup levels are shown.

1065EX350	4.0	4.0(Dup)
TPH Diesel	130	
TPH Gasoline	1900	2200
Lead		510

1065EX348	5.0
Benzo(a)pyrene	0.18

1065EX313	4.5
TPH Gasoline	2200
TPH Diesel	200

1065EX352	4.0
TPH Diesel	860
TPH Fuel Oil	570
TPH Gasoline	1100

1065EX355	4.0
TPH Gasoline	1100

Approx. depth of pipe in overexcavated trench = 7ft BGS

Stormdrain manhole 1ft BGS.

Approx. depth of pipe in overexcavated trench = 6.5ft BGS

Approx. depth of pipe in overexcavated trench = 8ft BGS

Sump vault; approximately 5 ft BGS

1065EX371, 1065EX370, 1065EX369, 1065EX368, 1065EX361, 1065EX359, 1065EX362, 1065EX360, 1065EX367, 1065EX354, 1065EX358, 1065EX365, 1065EX351, 1065EX359, 1065EX350, 1065EX310, 1065EX363, 1065EX352, 1065EX355, 1065EX364, 1065EX356, 1065EX313, 1065EX366, 1065EX357, 1065EX344, 1065EX348, 1065EX342, 1065EX347, 1065EX341, 1065EX346, 1065EX345, 1065EX343, 1065EX306, 1065EX308, 1065EX304, 1065EX305, 1065EX303, 1065EX307, 1065EX309, 1065EX311, 1065EX314, 1065EX312, 1065EX315

1065MW101A, 1065MW102A

BLDG 1163, BLDG 1066, BLDG 1062, GORGAS AVE, PARKING LOT

15 0 15 30
SCALE IN FEET

DRAFT

Excavation Limits and Excavation Sample Locations Building 1065 Area Construction Completion Report Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	2-1
APPROVED	MJH		
DATE	5/08		
PROJECT NUMBER			

FINAL PROGRESS REPORT
BUILDING 1065 AREA CORRECTIVE ACTION PLAN IMPLEMENTATION
PRESIDIO OF SAN FRANCISCO, CALIFORNIA
Excavation and Soil Vapor Sampling Activities

Weeks Ending: May 23 through August 8, 2008

Summary of Work Performed:
Week ending May 23 and 30, 2008:

- No work performed onsite.

Weeks ending June 6:

- MACTEC performed the outdoor cap inspection for LUC zones 1, 2, and 3
- EKI performed the indoor cap inspection for Building 1040

Week ending June 13, 2008:

- ERRG backfilled and compacted the sewer line excavation in the parking lot west of Excavation Area 3.
- T&R collected groundwater samples from wells 1065MW101, 1065MW102, and 1065MW103 as part of the Second Quarter 2008 Basewide Groundwater Monitoring Program.

Week ending June 20 and 27, 2008:

- DenBeste Transportation, Inc. transported and disposed of approximately 159 tons (8 truckloads) of soil from the excavation of the storm drain at the Altamont Landfill & Resource Recovery Facility.

Week ending August 1 2008:

- No work performed onsite.

Week ending August 8, 2008:

- PLS surveyed the excavation for the abandoned sewer line and performed the post-construction survey for the Building 1065 Area.

APPENDIX C

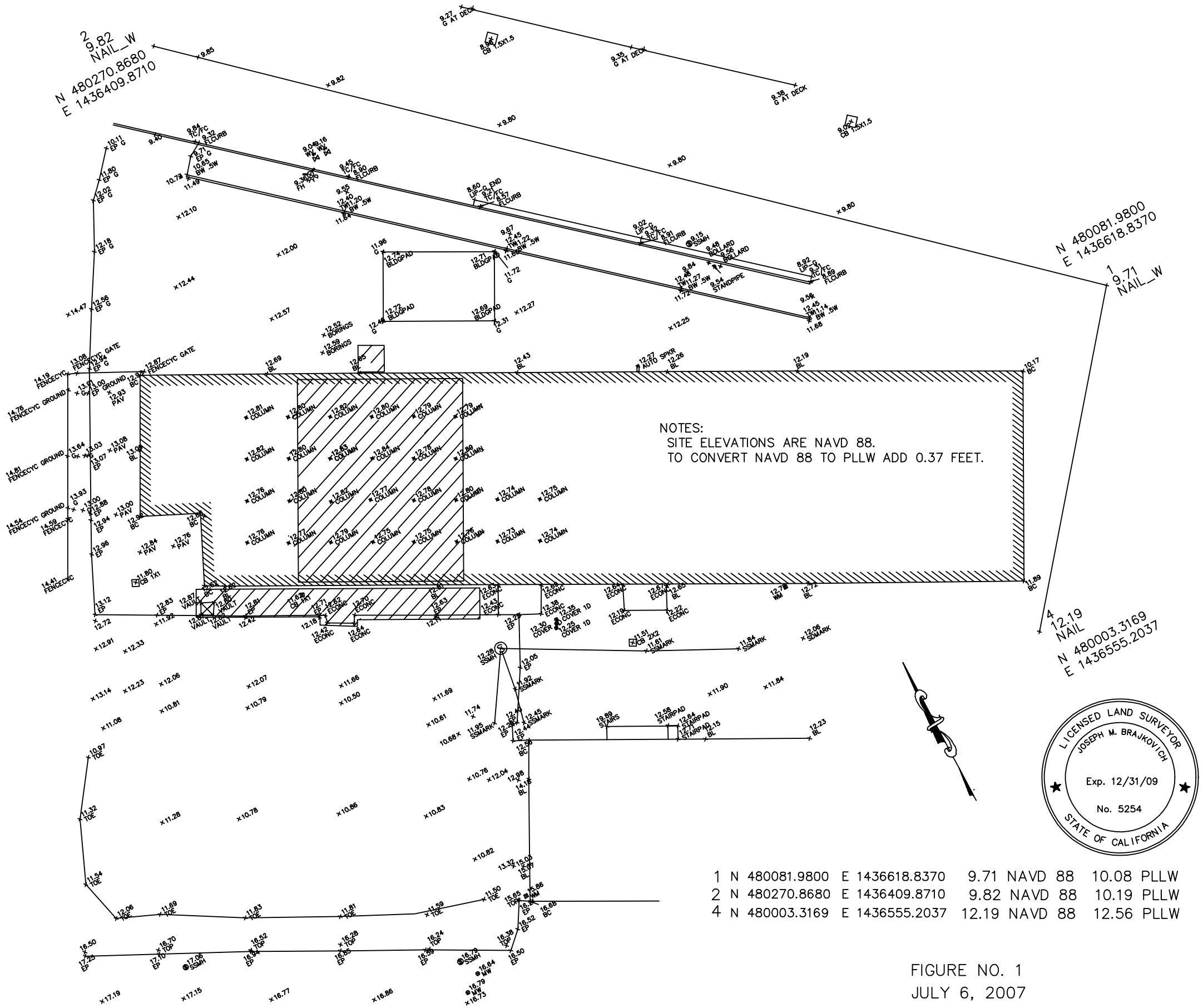
SURVEY DATA

APPENDIX C
SURVEY DATA

CONTENTS

July 6, 2007 - Pre-Construction Survey
December 12, 2007 – Post Excavation Survey – Excavations 2 & 3
March 26, 2008 - Post Excavation Survey – Excavation 1
August 7, 2008 – Final Record Survey

Reviewed by ___SRG__



1	N 480081.9800	E 1436618.8370	9.71	NAVD 88	10.08 PLLW
2	N 480270.8680	E 1436409.8710	9.82	NAVD 88	10.19 PLLW
4	N 480003.3169	E 1436555.2037	12.19	NAVD 88	12.56 PLLW

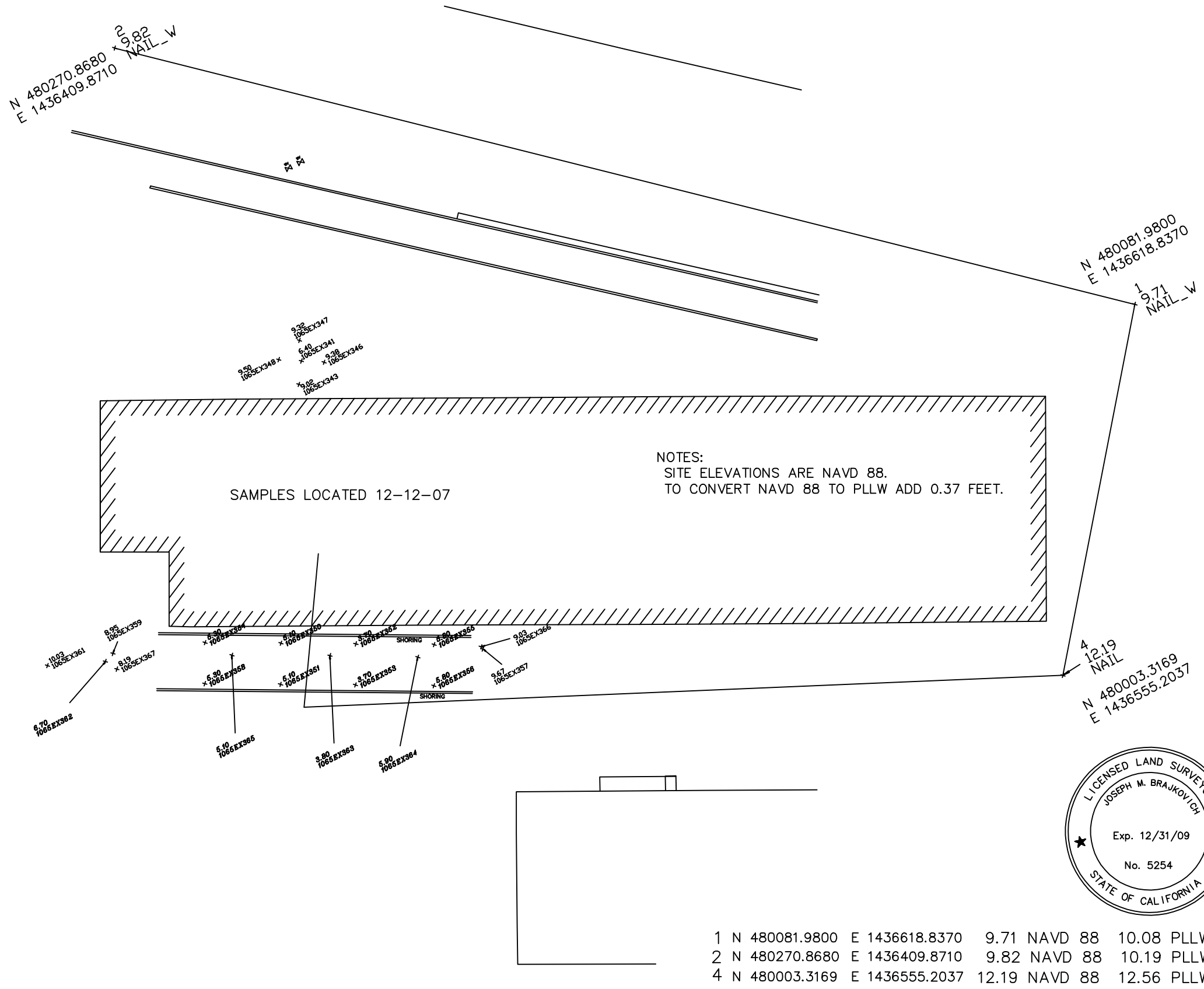
FIGURE NO. 1
JULY 6, 2007

LICENSED LAND SURVEYOR
JOSEPH M. BRAJKOVICH
Exp. 12/31/09
No. 5254
STATE OF CALIFORNIA

PLS SURVEYS, INC.
LAND & HYDROGRAPHIC SURVEYORS
2220 Livingston Street, Suite 202
Oakland, California 94606-5203
510.261.0900 FAX 510.261.3303
e-mail: plssurv@pacbell.net

PRE-CONSTRUCTION SURVEY
FIGURE NO. 1
JULY 06, 2007
SAN FRANCISCO CALIFORNIA

SCALE	1"=30'
DATE	07/06/2007
BY	JMB
JOB NO.	07046



1	N 480081.9800	E 1436618.8370	9.71	NAVD 88	10.08	PLLW
2	N 480270.8680	E 1436409.8710	9.82	NAVD 88	10.19	PLLW
4	N 480003.3169	E 1436555.2037	12.19	NAVD 88	12.56	PLLW

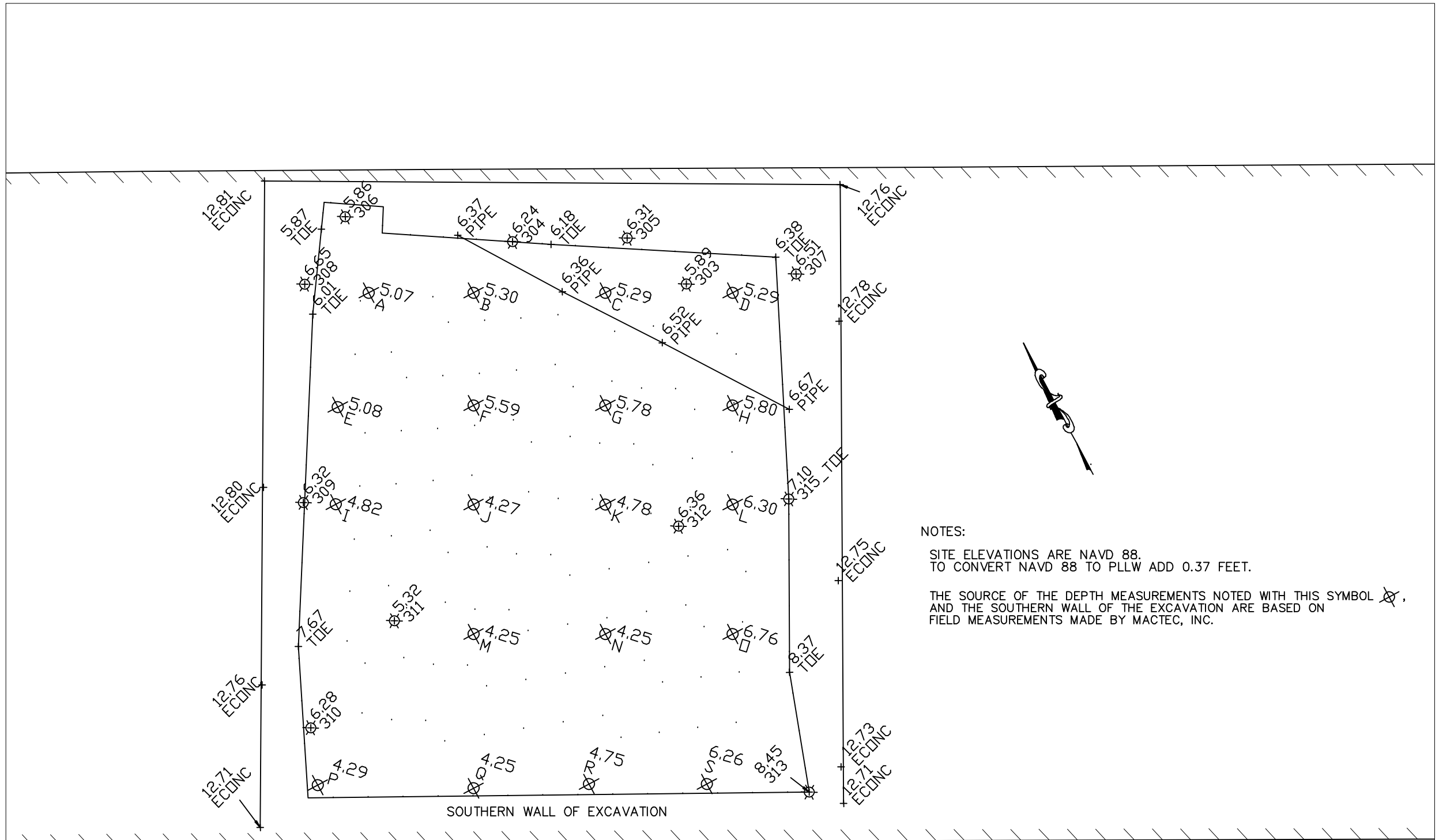
FIGURE NO. 2
DECEMBER 12, 2007

LICENSED LAND SURVEYOR
JOSEPH M. BRAJKOVICH
Exp. 12/31/09
No. 5254
STATE OF CALIFORNIA

POST-EXCAVATION SURVEY
EXCAVATIONS 2 & 3
FIGURE NO. 2
DECEMBER 12, 2007
SAN FRANCISCO CALIFORNIA

SCALE	1"=30'
DATE	12/12/2007
BY	JMB
JOB NO.	07046

PLS SURVEYS, INC.
LAND & HYDROGRAPHIC SURVEYORS
2220 Livingston Street, Suite 202
Oakland, California 94606-5203
510.261.0900 FAX 510.261.3303
e-mail: plssurv@pacbell.net



NOTES:

SITE ELEVATIONS ARE NAVD 88.
TO CONVERT NAVD 88 TO PLLW ADD 0.37 FEET.

THE SOURCE OF THE DEPTH MEASUREMENTS NOTED WITH THIS SYMBOL ⊗, AND THE SOUTHERN WALL OF THE EXCAVATION ARE BASED ON FIELD MEASUREMENTS MADE BY MACTEC, INC.

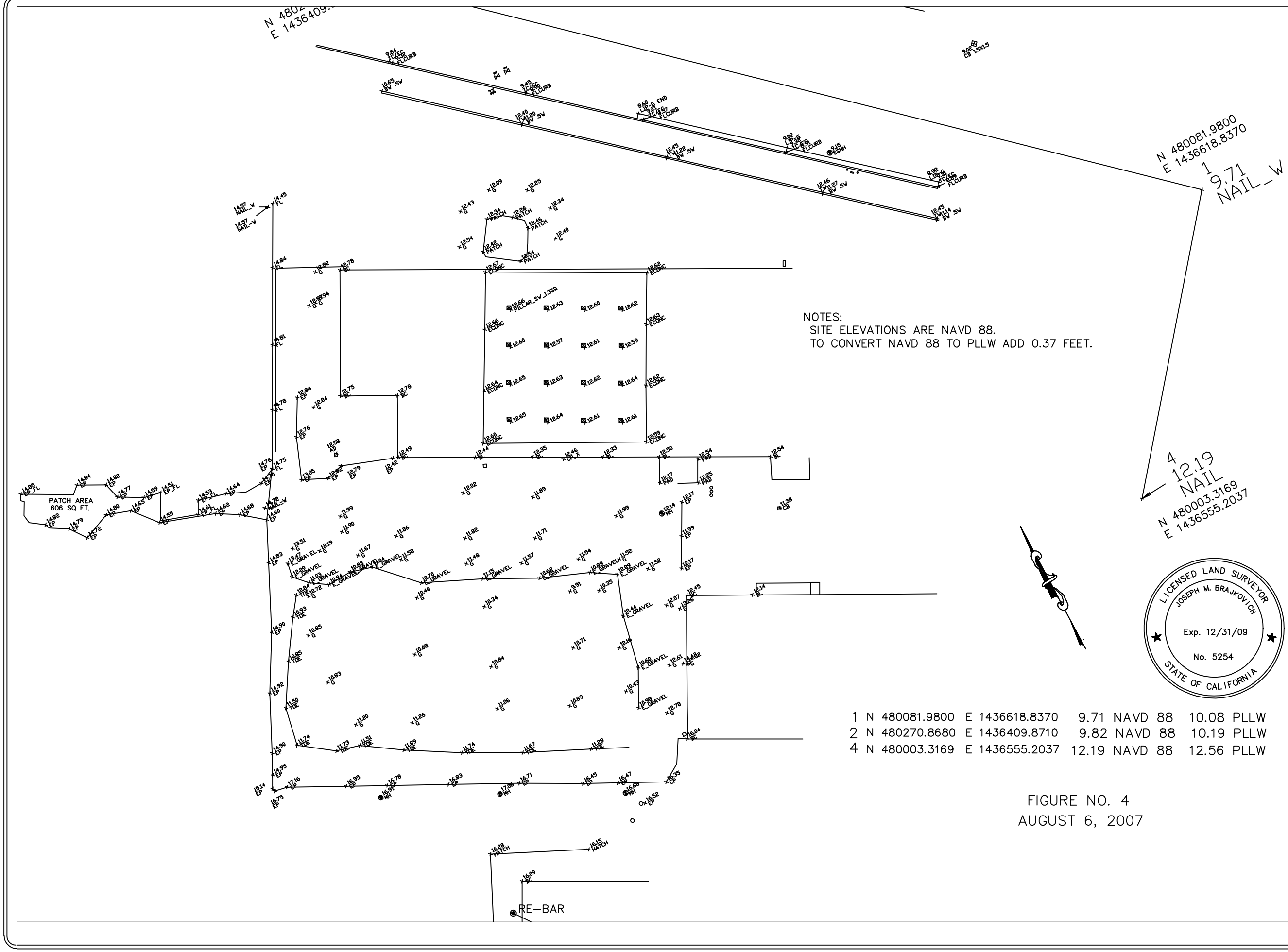
LICENSED LAND SURVEYOR
JOSEPH M. BRAJKOVICH
Exp. 12/31/09
No. 5254
STATE OF CALIFORNIA

FIGURE NO. 3
SURVEYED ON 03/26/08

POST-EXCAVATION SURVEY
EXCAVATION 1
FIGURE NO. 3
MARCH 26, 2008
SAN FRANCISCO CALIFORNIA

SCALE	1"=10'
DATE	03/26/2008
BY	JMB
JOB NO.	07046

PLS SURVEYS, INC.
LAND & HYDROGRAPHIC SURVEYORS
2220 Livingston Street, Suite 202
Oakland, California 94606-5203
510.261.0900 FAX 510.261.3303
e-mail: plssurv@pacbell.net



NOTES:
SITE ELEVATIONS ARE NAVD 88.
TO CONVERT NAVD 88 TO PLLW ADD 0.37 FEET.

1	N 480081.9800	E 1436618.8370	9.71	NAVD 88	10.08	PLLW
2	N 480270.8680	E 1436409.8710	9.82	NAVD 88	10.19	PLLW
4	N 480003.3169	E 1436555.2037	12.19	NAVD 88	12.56	PLLW

FIGURE NO. 4
AUGUST 6, 2007

LICENSED LAND SURVEYOR
JOSEPH M. BRAJKOVICH
Exp. 12/31/09
No. 5254
STATE OF CALIFORNIA

FINAL RECORD SURVEY

FIGURE NO. 4

AUGUST 7, 2008

SAN FRANCISCO CALIFORNIA

SCALE	1"=30'
DATE	08/07/2008
BY	JMB
JOB NO.	07046

PLS SURVEYS, INC.
LAND & HYDROGRAPHIC SURVEYORS
2220 Livingston Street, Suite 202
Oakland, California 94606-5203
510.261.0900 FAX 510.261.3303
e-mail: plssurv@pacbell.net

APPENDIX D

LABORATORY REPORTS – CONFIRMATION SOIL, WASTEWATER, AND BACKFILL SAMPLES

APPENDIX D
LABORATORY REPORTS - CONFIRMATION SOIL, WASTEWATER, AND BACKFILL SAMPLES

CONTENTS

Table D-1 - Summary of Sample IDs
Laboratory Job Number 198380 Analytical Report
Laboratory Job Number 198818 Analytical Report
Laboratory Job Number 198879 Analytical Report
Laboratory Job Number 198880 Analytical Report
Laboratory Job Number 198903 Analytical Report
Laboratory Job Number 199042 Analytical Report
Laboratory Job Number 199163 Analytical Report
Laboratory Job Number 199248 Analytical Report
Laboratory Job Number 199433 Analytical Report
Laboratory Job Number 200073 Analytical Report
Laboratory Job Number 200520 Analytical Report
Laboratory Job Number 200684 Analytical Report
Laboratory Job Number 201726 Analytical Report
Laboratory Job Number 201748 Analytical Report
Laboratory Job Number 201749 Analytical Report
Laboratory Job Number 202043 Analytical Report
Laboratory Job Number 202203 Analytical Report
Laboratory Job Number 203210 Analytical Report
Laboratory Job Number 203251 Analytical Report

Reviewed by SRG

Table D-1. Summary of Sample IDs
Building 1065 Area

Sample Date	SDG	COC Number	Number of Samples	Station	Sample IDs	Matrix	Sample Type	Location	Sample Depth (feet bgs)	Lab	Comments
10/15/07	198380	3073	2	NA	1065BC400	3/4" Drain Rock	Primary	NA	NA	CT	Backfill sample - Dutra Quarry
	"			NA	1065BC401	Class II AB	Primary	NA	NA	"	"
10/30/07	198818	3817	10	1065EX350	1065EX350[4.0]	Soil	Primary	Sidewall	4-4.5	CT	Excavation 3
				1065EX350	DUP103007-1	Soil	Duplicate	Sidewall	4-4.5	"	Duplicate sample
				1065EX351	1065EX351[4.0]	Soil	Primary	Sidewall	4-4.5	"	Excavation 3
				1065EX352	1065EX352[4.0]	Soil	Primary	Sidewall	4-4.5	"	"
				1065EX353	1065EX353[4.0]	Soil	Primary	Sidewall	4-4.5	"	"
				1065EX355	1065EX355[4.0]	Soil	Primary	Sidewall	4-4.5	"	"
				1065EX356	1065EX356[4.0]	Soil	Primary	Sidewall	4-4.5	"	"
		3818		NA	1065EX353RB354	Water	QA/QC	NA	NA	"	Equipment blank
				NA	TB103007	Water	QA/QC	NA	NA	"	Trip blank
		3819		1065EX354	1065EX354[4.0]	Soil	Primary	Sidewall	4-4.5	"	Excavation 3
10/31/07	198879	3820	2	Holding Tank	1065DE210	Water	Primary	NA	NA	CT	Holding tank (discharge sample)
				Holding Tank	DUP103107	Water	Duplicate	NA	NA	"	Duplicate sample
10/31/07	198880	3820	4	1065EX357	1065EX357[4.0]	Soil	Primary	Sidewall	4-4.5	CT	Excavation 3
				1065EX358	1065EX358[4.0]	Soil	Primary	Sidewall	4-4.5	"	"
		3821		NA	TB103107	Water	QA/QC	NA	NA	"	Trip blank
				NA	1065EX357RB358	Water	QA/QC	NA	NA	"	Equipment Blank
11/1/07	198903	3823	7	1065EX359	1065EX359[4.0]	Soil	Primary	Sidewall	4-4.5	CT	Excavation 3
				1065EX360	1065EX360[4.0]	Soil	Primary	Sidewall	4-4.5	"	"
				1065EX360	DUP110107	Soil	Duplicate	Sidewall	4-4.5	"	Duplicate sample
				NA	1065EX360RB361	Water	QA/QC	NA	NA	"	Equipment Blank
				NA	TB110107	Water	QA/QC	NA	NA	"	Trip blank
				1065EX361	1065EX361[4.5]	Soil	Primary	Sidewall	4.5-5	"	Excavation 3
				1065EX362	1065EX362[5.5]	Soil	Primary	Bottom	5.5-6	"	Excavation 3
11/6/07	199042	3824	4	NA	TB110607	Water	QA/QC	NA	NA	CT	Trip blank
11/7/07		3825		1065EX363	1065EX363[8.0]	Soil	Primary	Bottom	5.5-6	"	Excavation 3
				1065EX364	1065EX364[6.0]	Soil	Primary	Bottom	5.5-6	"	"
				1065EX365	1065EX365[6.5]	Soil	Primary	Bottom	5.5-6	"	"

Table D-1. Summary of Sample IDs
Building 1065 Area

Sample Date	SDG	COC Number	Number of Samples	Station	Sample IDs	Matrix	Sample Type	Location	Sample Depth (feet bgs)	Lab	Comments
11/12/07	199163	3826	6	1065EX341	1065EX341[7.0]	Soil	Primary	Bottom	7-7.5	CT	Excavation 2
				1065EX341	DUP111207	Soil	Duplicate	Bottom	7-7.5	"	Duplicate sample
				1065EX342	1065EX342[5.0]	Soil	Primary	Sidewall	5-5.5	"	Excavation 2
				1065EX343	1065EX343[5.0]	Soil	Primary	Sidewall	5-5.5	"	"
				1065EX344	1065EX344[5.0]	Soil	Primary	Sidewall	5-5.5	"	"
				1065EX345	1065EX345[5.0]	Soil	Primary	Sidewall	5-5.5	"	"
11/14/07	199248	3827	1	1065EX367	1065EX367[4.0]	Soil	Primary	Sidewall	4-4.5	"	Excavation 3
11/21/07	199433	3828	3	1065EX346	1065EX346[5.0]	Soil	Primary	Sidewall	5-5.5	CT	Excavation 2
				1065EX347	1065EX347[5.0]	Soil	Primary	Sidewall	5-5.5	"	"
				1065EX348	1065EX348[5.0]	Soil	Primary	Sidewall	5-5.5	"	"
12/19/07	200073	3829	1	1065SD100	1065SD100[5.5]	Sediment	Primary	Inside Pipe	5.5	CT	Sediment sample, 12-inch ID pipe
1/11/08	200520	3830	1	NA	1065BC402[A,B,C,D]	Class II AB	Primary	NA	NA	CT	Badkfill sample - Aromas Quarry
1/22/08	200684	3836	2	1065EX301	1065EX301[8.5]	Soil	Primary	Bottom	8.5-9	CT	Pierhole sample in Excavation 1
				1065EX302	1065EX302[8.5]	Soil	Primary	Bottom	8.5-9	"	Pierhole sample in Excavation 1
3/6/08	201726	3833	3	1065EX303	1065EX303[7.0]	Soil	Primary	Bottom	7-7.5	CT	Excavation 1
				1065EX304	1065EX304[7.5]	Soil	Primary	Bottom	7.5-8	"	Duplicate sample
				1065EX304	DUP030608	Soil	Duplicate	Bottom	7.5-8	"	Excavation 1
3/6/08	201748	3834	2	1065EX305	1065EX305[6.0]	Soil	Primary	Sidewall	6-6.5	CT	Excavation 1
				1065EX306	1065EX306[6.0]	Soil	Primary	Sidewall	6-6.5	"	"
3/6/08	201749	3832	2	NA	1065EX303RB304	Water	QA/QC	NA	NA	CT	Equipment blank
				NA	TB030608	Water	QA/QC	NA	NA	"	Trip blank
3/19/08	202043	3835	9	1065EX307	1065EX307[6.0]	Soil	Primary	Sidewall	6-6.5	CT	Excavation 1
				1065EX308	1065EX308[6.0]	Soil	Primary	Sidewall	6-6.5	"	"
				1065EX309	1065EX309[6.5]	Soil	Primary	Sidewall	6.5-7	"	"
				1065EX310	1065EX310[7.0]	Soil	Primary	Sidewall	7-7.5	"	"
				1065EX311	1065EX311[8.5]	Soil	Primary	Bottom	8.5-9	"	"
				1065EX311	DUP031908	Soil	Duplicate	Bottom	8.5-9	"	Duplicate sample
				1065EX312	1065EX312[6.0]	Soil	Primary	Bottom	6-6.5	"	Excavation 1
				1065EX313	1065EX313[4.5]	Soil	Primary	Sidewall	4.5-5	"	"
				1065EX314	1065EX314[5.5]	Soil	Primary	Sidewall	5.5-6	"	"

Table D-1. Summary of Sample IDs
Building 1065 Area

Sample Date	SDG	COC Number	Number of Samples	Station	Sample IDs	Matrix	Sample Type	Location	Sample Depth (feet bgs)	Lab	Comments
3/26/08	202203	3837	1	1065EX315	1065EX315[5.0]	Soil	Primary	Sidewall	5-5.5	CT	Excavation 1
5/9/08	203210	3838	4	1065EX368	1065EX368[8.0]	Soil	Primary	Bottom	8-8.5	CT	Abandoned sewer line trench
				1065EX369	1065EX369[8.0]	Soil	Primary	Bottom	8-8.5	"	"
				1065EX370	1065EX370[8.0]	Soil	Primary	Bottom	8-8.5	"	"
				1065EX370	DUP050908	Soil	Duplicate	Bottom	8-8.5	"	"
5/13/08	203251	3839	1	1065EX371	1065EX371[8.0]	Soil	Primary	Bottom	8-8.5	"	Abandoned sewer line trench

Notes:
SDG = Sample Delivery Group
COC = Chain of Custody
CT = Curtis & Tompkins, LTD.
bgs = below ground surface
NA = Not applicable.

Checked by __SRG__
Approved by __MJH__

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 198380
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 Presidio Level : III

Sample ID	Lab ID
1065BC400	198380-001
1065BC401	198380-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 11/09/2007
Project Manager

Signature: _____ Date: 11/12/2007
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	198380
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065 Presidio
Request Date:	10/15/07
Samples Received:	10/15/07

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 10/15/07. The samples were received cold and intact. Sample 1065BC402 required crushing prior to analysis due to the large particle size of the material. All volatile analyses were analyzed from available fine material in each sample and were not analyzed from the material delivered after mechanical crushing.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recoveries were observed for trifluorotoluene (FID) in the MS/MSD for batch 130580; the parent sample was not a project sample. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 130580; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
High recovery was observed for diesel C12-C24 in the MS for batch 130878; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for diesel C12-C24 in the MS/MSD for batch 130878. Diesel C12-C24 was detected between the MDL and the RL in the method blank for batch 130710; this analyte was detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
High response was observed for benzo(b)fluoranthene in the CCV analyzed 10/22/07 09:29; this analyte was not detected at or above the RL in the associated sample. Low response was observed for 2-methylnaphthalene in the CCV analyzed 10/19/07 09:29; this analyte met minimum response criteria. High responses were observed for anthracene, benzo(k)fluoranthene, and dibenz(a,h)anthracene. High response was observed for pyrene in the CCV analyzed 10/22/07 09:32; affected data was qualified with "b". Low recoveries were observed for acenaphthene and pyrene in the MSD for batch 130758; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for acenaphthene and pyrene in the MS/MSD for batch 130758; these analytes were not detected at or above the RL in the associated sample. Low surrogate recoveries were observed for nitrobenzene-d5, 2-fluorobiphenyl, and terphenyl-d14 in the MSD for batch 130758; the parent sample was not a project sample. Naphthalene was detected between the MDL and the RL in the method blank for batch 130758; this analyte was detected in the

#
49.0

00002

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	198380
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065 Presidio
Request Date:	10/15/07
Samples Received:	10/15/07

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7471A):
Low recoveries were observed for molybdenum, antimony, and zinc in the MS/MSD of 1065BC401 (lab # 198380-002); the BS/BSD were within limits, and the associated RPDs were within limits. Low recoveries were observed for antimony in the MS/MSD for batch 130692; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. High % differences were observed for barium and cobalt in the serial dilution for batch 130692 and the serial dilution of 1065BC401 (lab # 198380-002). Many analytes were detected between the MDL and the RL in the method blank for batch 130746; these analytes were either not detected in the sample at or above the RL, or detected at a level at least 10 times that of the blank. Chromium and zinc were detected between the MDL and the RL in the method blank for batch 130692; these analytes were detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

crush (CRUSH):
Metallurgical Laboratories in Concord, CA performed the analysis. Please see the Metallurgical Laboratories case narrative.

#
49.0

00003

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD 198380 3083

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION
NAME OF FACILITY: 1065
STREET ADDRESS:
CITY / STATE: ZIP:

PROJECT NAME: 1065 Presidio
JOB NO.: 408407511 5 01.03
SAMPLERS (SIGNATURE): WOR JHD
SAMPLERS INITIALS (PRINT):
SAMPLING DATE: 10/15/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260)	TPHd (8015M)	TPHd w/ SG (8015M)	TPHd (8270-SIM)	Ti-HCa (8260 modified)	(6020/7000)	FOR LAB USE ONLY
1 1430		X	SO	1065 BC ~~407~~ 400	3/4" Drain Rock		3	X	X	X	X			
2 1435		X	SO	1065 BC ~~403~~ 401	Class 2 AB		3	X	X	X	X			

Changed sample ID per K.C. 10/16/07 SES

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	10/16/07 1170		12/15/07			10/15/07 1740

*MATRIX: WATER - W; SOIL / SEDIMENT - SO; OTHER - NA

REMARKS: Receipt; int. HL
1 week TAT Report Results to Mary Jo Heisle & Kristen Carrylon
APO = 200701797

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

Steve Stanley

From: "Carlyon, Kristen" <KACARLYON@mactec.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Heassler, Mary Jo" <MHeassler@mactec.com>
Sent: Tuesday, October 16, 2007 1:14 PM
Subject: FW: Clarification on analysis of 3/4 inch drain rock and Class II AB from Dutra Quarry

Steve,

Please see below.

Thanks,

Kristen

From: Heassler, Mary Jo
Sent: Tuesday, October 16, 2007 12:36 PM
To: Seelbach, Ryan; Carlyon, Kristen
Subject: Clarification on analysis of 3/4 inch drain rock and Class II AB from Dutra Quarry
Importance: High

I spoke with Ryan Seelbach today regarding analysis and turnaround times for the samples collected from the Dutra Quarry and submitted to the laboratory yesterday.

Ryan – please e-mail to make any corrections as Kristen will be forwarding my e-mail to the laboratory.

¾ inch drain rock sample – Ryan understands that it may take 1 week for milling, but would like the sample on at least **72 hr TAT** when it comes back as the material is already being imported to the site. **Kristen** – can the laboratory give us a cost for the milling?

Class II AB sample – We only need to analyze the primary, not a duplicate sample of this on 1 week turnaround time. Because the ¾ drain rock and AB are from the same source, they should serve as duplicate samples for at least the metals. So please have the primary sample taken off of hold.

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: x Client Request By: K.Carlyon Date/Time: 10/16/07 14:00 Initials: SES
Login Review Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
198380-001		1065BC400	Soil	Update	TEHM, 8270-SIM	10/25
					T26/ICP, T26/HG	
					Moisture	
	Update puts this sample temporarily on hold while it is sent out for crushing.					
	Sample should be back by Thursday, 10/18. Results are rush due 10/25.					

65557

Steve Stanley

From: "Heassler, Mary Jo" <MHeassler@mactec.com>
To: "Carlyon, Kristen" <KACARLYON@mactec.com>; "Steve Stanley" <steve@ctberk.com>
Sent: Tuesday, October 16, 2007 3:20 PM
Subject: RE: Bldg 1065 Samples

Also TPHg if not on there

From: Carlyon, Kristen
Sent: Tuesday, October 16, 2007 3:01 PM
To: Steve Stanley
Cc: Heassler, Mary Jo
Subject: Bldg 1065 Samples

Steve,

Please add BTEX (8260) to both samples.

Thanks,
Kristen

Kristen Carlyon
Senior Environmental Scientist
MACTEC Engineering, Inc.
600 Grand Ave., Suite 300
Oakland, CA 94610
office (510) 628-3216 cell (510) 517-8113
email kacarlyon@mactec.com

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 198380 Date Received: 10/15 Number of Coolers: 1
Client: MACTEC Project: ~~Baker Beach, 2A~~ KMW 10/15/07 1065 Presidio

A. Preliminary Examination Phase
Date Opened: 10/15 By (print): Ken Wong (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES (NO)
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler?..... YES (NO)
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO NA
4. Were custody papers dry and intact when received?..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... (YES) NO
6. Did you sign the custody papers in the appropriate place?..... (YES) NO
7. Was project identifiable from custody papers?..... (YES) NO
   If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: bags on ice
9. If required, was sufficient ice used? Samples should be <=6 degrees C. ..... YES NO
   Type of ice: wet Temperature: cold on arrival, no temp blank
10. Were Encore sampling devices present in the cooler?..... (YES) (NO)
    If YES, enter time they were transferred to the freezer 17:15 KMW 10/15/07 Encore devices for separate COC in cooler

B. Login Phase
Date Logged In: 10/15 By (print): KWellbrock (sign)

1. Did all bottles arrive unbroken?..... (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... (YES) NO
3. Did bottle labels agree with custody papers?..... (YES) NO
4. Were appropriate containers used for the tests indicated?..... (YES) NO
5. Were correct preservatives added to samples?..... N/A YES NO
6. Was sufficient amount of sample sent for tests indicated?..... (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below..... N/A YES NO
8. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

TOTAL VOLATILE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	130580
Units:	mg/Kg	Sampled:	10/15/07
Diln Fac:	1.000	Received:	10/15/07

Field ID:	1065BC400	Basis:	dry
Type:	SAMPLE	Moisture:	1%
Lab ID:	198380-001	Analyzed:	10/17/07

Analyte	Result	RL	MDL
Gasoline C7-C12	0.17 J	1.0	0.081

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	71-132
Bromofluorobenzene (FID)	91	69-145

Field ID:	1065BC401	Basis:	dry
Type:	SAMPLE	Moisture:	3%
Lab ID:	198380-002	Analyzed:	10/17/07

Analyte	Result	RL	MDL
Gasoline C7-C12	0.14 J	1.1	0.085

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	71-132
Bromofluorobenzene (FID)	94	69-145

Type:	BLANK	Basis:	as received
Lab ID:	QC410702	Analyzed:	10/16/07

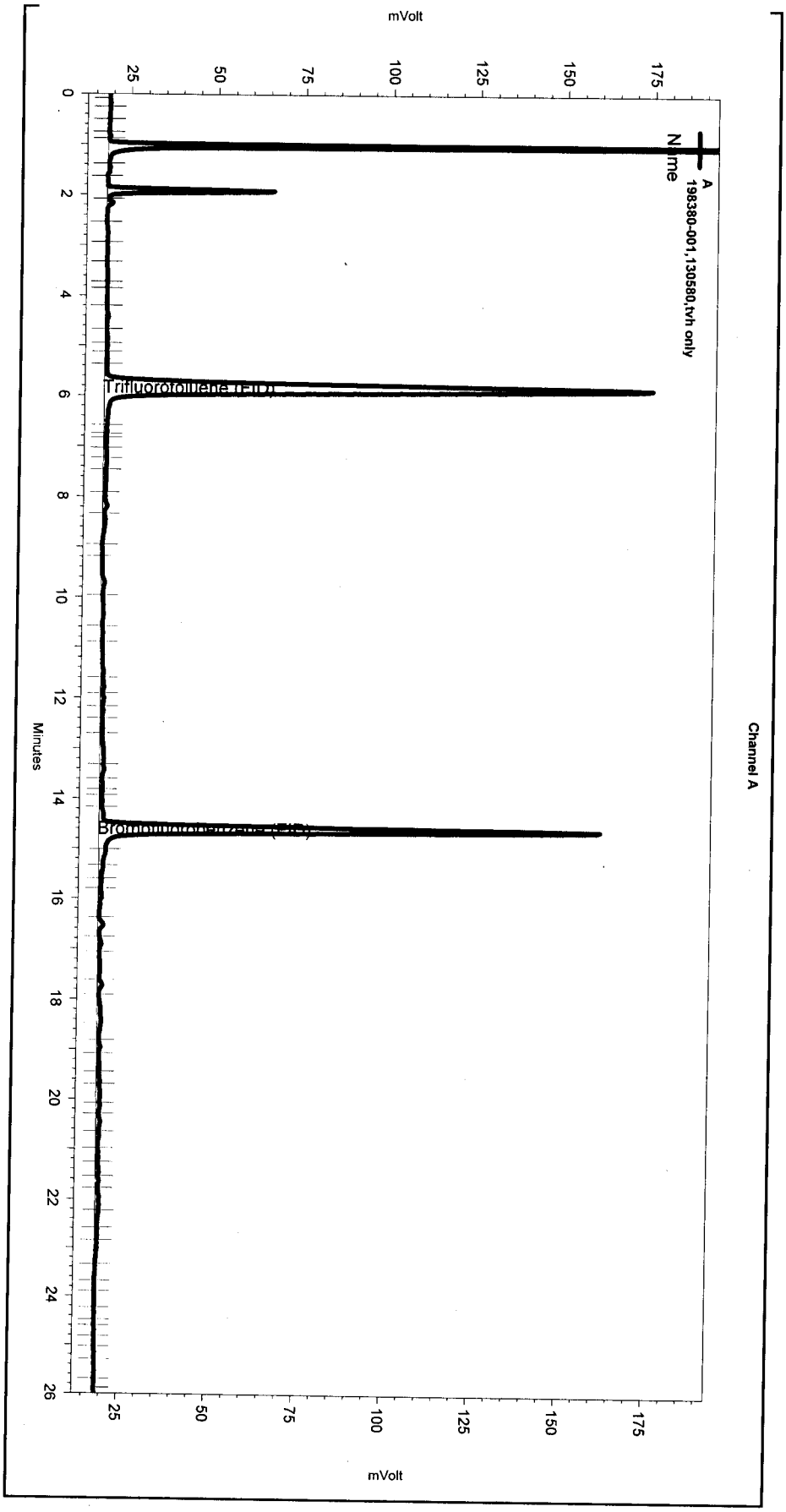
Analyte	Result	RL	MDL
Gasoline C7-C12	0.024 J	0.20	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	71-132
Bromofluorobenzene (FID)	91	69-145

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\289.seq**
Sample Name: **198380-001,130580,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\289_035**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe260 Surrfun.met

Software Version 3.1.7
Run Date: 10/17/2007 8:09:27 AM
Analysis Date: 10/17/2007 9:49:41 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

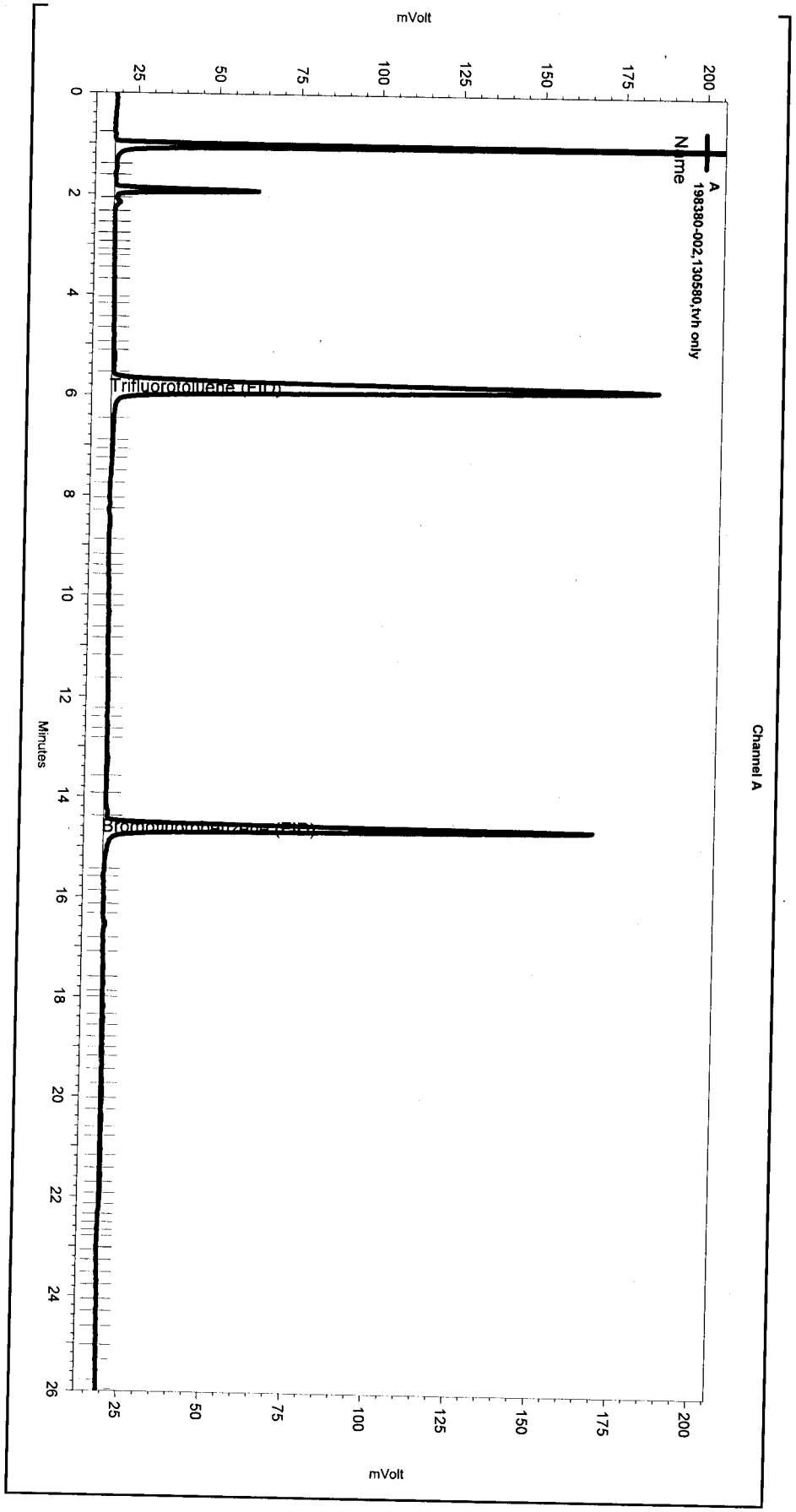
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\289_035

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\289.seq**
Sample Name: **198380-002,130580,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\289_036**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe260 Surrfun.met

Software Version 3.1.7
Run Date: 10/17/2007 8:47:13 AM
Analysis Date: 10/17/2007 10:31:51 AM
Sample Amount: 0.97 Multiplier: 0.97
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

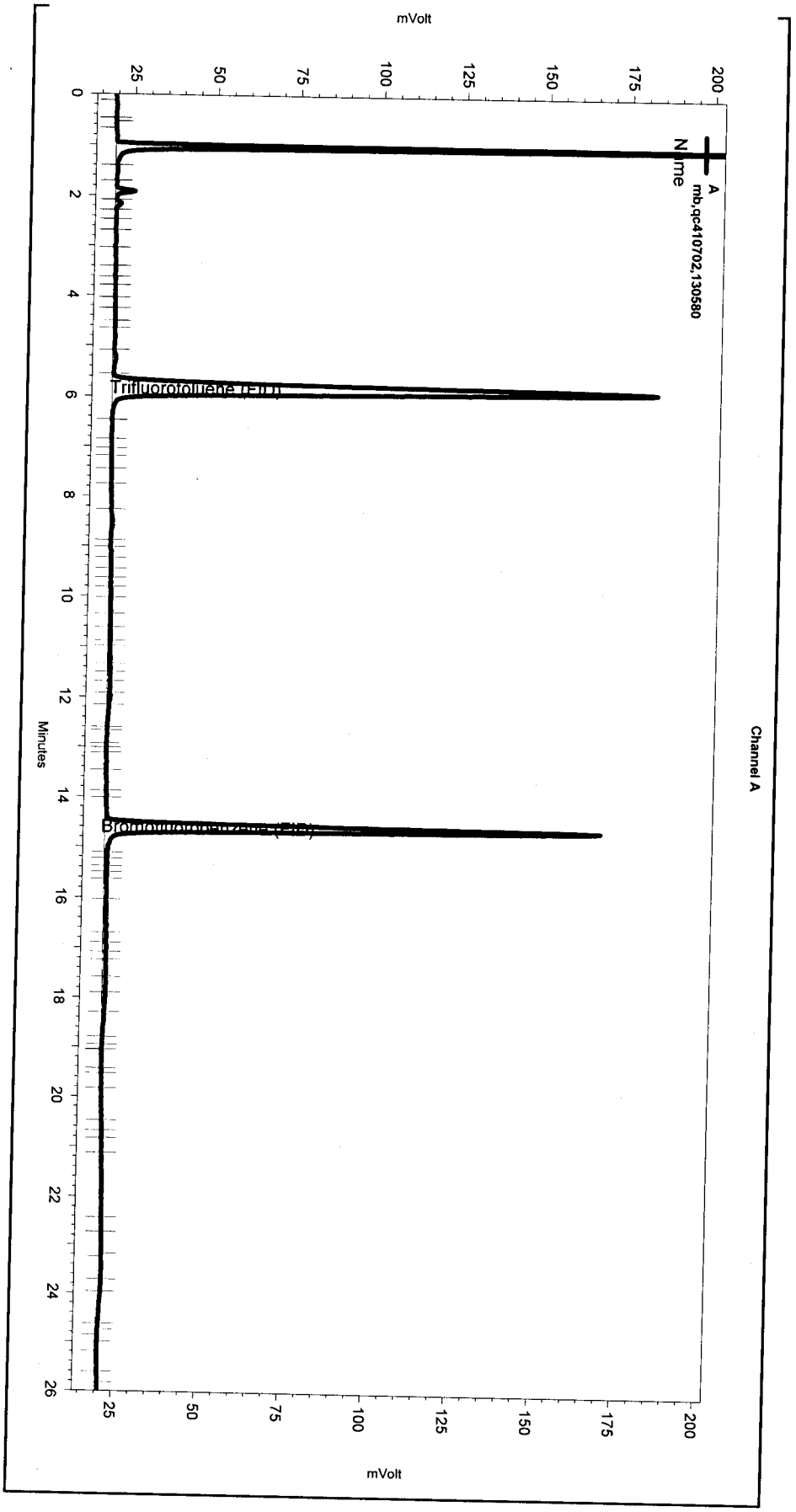
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\289_036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\289.seq**
Sample Name: **mb,qc410702,130580**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\289_004**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe260 Surrfun.met

Software Version 3.1.7
Run Date: 10/16/2007 12:06:23 PM
Analysis Date: 10/17/2007 9:46:53 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

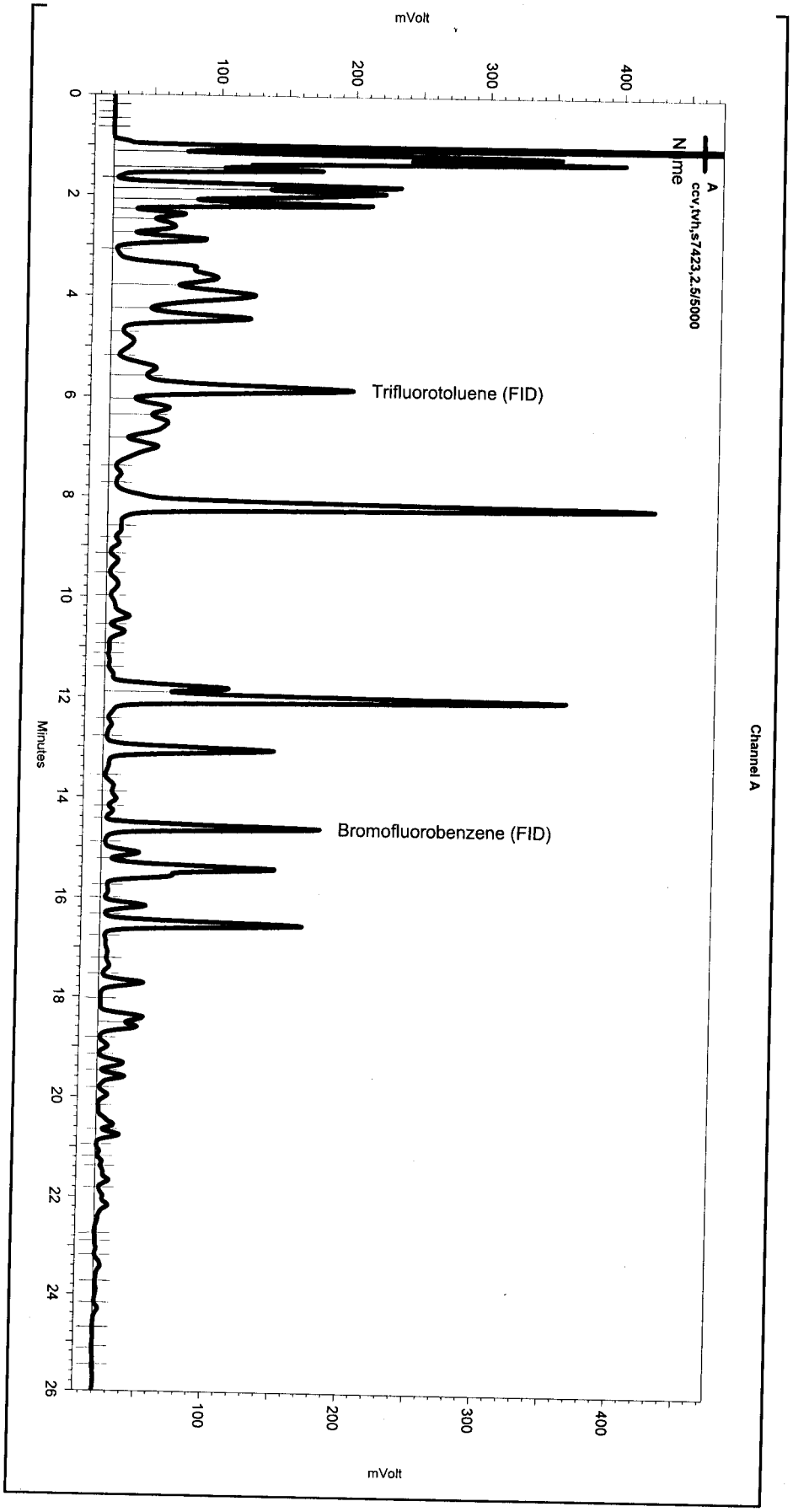
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\289_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

0001 U

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\289.seq**
Sample Name: **ccv,tvh,s7423,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\289_002**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe260 Surrfun.met

Software Version 3.1.7
Run Date: 10/16/2007 10:32:51 AM
Analysis Date: 10/17/2007 9:46:36 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\289_002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC410703	Diln Fac:	1.000
Matrix:	Soil	Batch#:	130580
Units:	mg/Kg	Analyzed:	10/16/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.125	102	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	71-132
Bromofluorobenzene (FID)	93	69-145

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	198354-002	Batch#:	130580
Matrix:	Soil	Sampled:	10/11/07
Units:	mg/Kg	Received:	10/12/07
Basis:	as received	Analyzed:	10/17/07

Type: MS Lab ID: QC410704

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	2.661	9.901	11.28	87	43-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	139 *	71-132
Bromofluorobenzene (FID)	135	69-145

Type: MSD Lab ID: QC410705

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.709	12.15	98	43-120	9	25

Surrogate	%REC	Limits
Trifluorotoluene (FID)	143 *	71-132
Bromofluorobenzene (FID)	145	69-145

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCVOA Soil: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198380 GCVOA Soil
EPA 8015B

Inst : GC04 Name : GC04 TVH 166
Calnum : 307240439001 Cal Date : 16-JUN-2007

ICV 307240439025 (166_025 16-JUN-2007) stds: S6393 (1000X), S6435 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	4397.8	4535.9	10000	10310	ng	3	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 307374881001
Units : ng

Name : GC04MBTXE-SURR260
Date : 18-SEP-2007 00:54
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	260_021	307374881021	BTXE_1	18-SEP-2007 00:54	S6683 (1000X), S6927 (5000X)
L2	260_022	307374881022	MBTXE_2	18-SEP-2007 01:32	S6682 (1250X), S6927 (5000X)
L3	260_023	307374881023	MBTXE_3	18-SEP-2007 02:10	S6682 (500X), S6927 (5000X)
L4	260_024	307374881024	MBTXE_4	18-SEP-2007 02:48	S6682 (125X), S6927 (5000X)
L5	260_025	307374881025	MBTXE_5	18-SEP-2007 03:26	S6681 (1000X), S6927 (5000X)
L6	260_026	307374881026	MBTXE_6	18-SEP-2007 04:04	S6681 (500X), S6927 (5000X)
L7	260_028	307374881028	MTBE_7	18-SEP-2007 05:19	S6302 (500X), S6927 (5000X)
L8	260_032	307374881032	MBTXE_7	18-SEP-2007 11:08	S6681 (250X), S6927 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	4113.9	4162.5	3928.5	4351.0	4058.5	4031.4	3810.5	3435.8	AVRG		2.51E-4		3986.5	7	0.995	20	
Bromofluorobenzene (FID)	A	2725.8	2714.5	2738.7	3137.5	2760.4	2738.6	2470.8	2405.0	AVRG		3.69E-4		2711.4	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	3	450.0	4	450.0	-1	450.0	9	450.0	2	450.0	1	450.0	-4	450.0	-14
Bromofluorobenzene (FID)	A	450.0	1	450.0	0	450.0	1	450.0	16	450.0	2	450.0	1	450.0	-9	450.0	-11

MJM 09/18/07 [MTBE B]: Fails % RSD (Ch. B&C) & ICV (Ch.B). Cannot report analyte from GC04.

Analyst: MJM Date: 09/18/07 Reviewer: RH Date: 09/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

307374881001

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 307417180002 File : 289_002 Time : 16-OCT-2007 10:32
Standards: S7423 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4167.3	5000	4738	ng	-5	15	
Trifluorotoluene (FID)	A	307374881001	18-SEP-2007	3986.5	4919.9	450.0	555.4	ng	**23**	15	c+
Bromofluorobenzene (FID)	A	307374881001	18-SEP-2007	2711.4	2694.5	450.0	447.2	ng	-1	15	

MJM 10/17/07 : PID surrogates are not applicable.

MJM 10/17/07 [Trifluorotoluene (FID) A]: Passes control limits.

Analyst: MJM Date: 10/17/07 Reviewer: LH Date: 10/18/07

+=high bias c=CCV

307417180002

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 307417180015 File : 289_015 Time : 16-OCT-2007 19:32
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4080.9	15000	13920	ng	-7	15	
Trifluorotoluene (FID)	A	307374881001	18-SEP-2007	3986.5	6384.7	450.0	720.7	ng	**60**	15	c+
Bromofluorobenzene (FID)	A	307374881001	18-SEP-2007	2711.4	2812.5	450.0	466.8	ng	4	15	

MJM 10/17/07 : PID surrogates are not applicable.

MJM 10/17/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

Analyst: MJM Date: 10/17/07 Reviewer: LH Date: 10/18/07

+=high bias c=CCV

307417180015

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 307417180029 File : 289_029 Time : 17-OCT-2007 04:22
Standards: S7423 (1000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4086.1	10000	9291	ng	-7	15	
Trifluorotoluene (FID)	A	307374881001	18-SEP-2007	3986.5	5704.1	450.0	643.9	ng	**43**	15	c+
Bromofluorobenzene (FID)	A	307374881001	18-SEP-2007	2711.4	2876.9	450.0	477.5	ng	6	15	

MJM 10/17/07 : PID surrogates are not applicable.

MJM 10/17/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

Analyst: MJM Date: 10/17/07 Reviewer: LH Date: 10/18/07

+=high bias c=CCV

307417180029

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 307417180043 File : 289_043 Time : 17-OCT-2007 14:41
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3998.3	15000	13640	ng	-9	15	
Trifluorotoluene (FID)	A	307374881001	18-SEP-2007	3986.5	6070.0	450.0	685.2	ng	**52**	15	c+
Bromofluorobenzene (FID)	A	307374881001	18-SEP-2007	2711.4	2573.0	450.0	427.0	ng	-5	15	

MJM 10/17/07 : PID surrogates are not applicable.

MJM 10/17/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

Analyst: MJM Date: 10/17/07 Reviewer: LH Date: 10/18/07

+=high bias c=CCV

307417180043

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307240439

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 06/15/07 10:59
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	166_001	X	CMARK			06/15/07 10:59	1.0	1 2
002	166_002	CCV	TVH			06/15/07 11:37	1.0	3 2
003	166_003	X	CCV			06/15/07 12:15	1.0	4 2
004	166_004	X	IB			06/15/07 13:08	1.0	2
005	166_005	IB	CALIB			06/15/07 15:44	1.0	2
006	166_006	ICAL	BTXE_1			06/15/07 16:22	1.0	5 2
007	166_007	ICAL	BTXE_2			06/15/07 17:00	1.0	6 2
008	166_008	ICAL	BTXE_3			06/15/07 17:38	1.0	6 2
009	166_009	X	ICAL			06/15/07 18:16	1.0	6 2
010	166_010	ICAL	BTXE_5			06/15/07 18:54	1.0	7 2
011	166_011	ICAL	BTXE_6			06/15/07 19:31	1.0	7 2
012	166_012	ICAL	BTXE_7			06/15/07 20:09	1.0	7 2
013	166_013	ICAL	MTBE_7			06/15/07 20:47	1.0	8 2
014	166_014	X	IB			06/15/07 21:25	1.0	2
015	166_015	X	ICV			06/15/07 22:03	1.0	9 2
016	166_016	X	ICV			06/15/07 22:41	1.0	9 2
017	166_017	X	IB			06/15/07 23:19	1.0	2
018	166_018	IB	CALIB			06/15/07 23:57	1.0	2
019	166_019	ICAL	TVH 1			06/16/07 00:35	1.0	10 2
020	166_020	ICAL	TVH 2			06/16/07 01:13	1.0	11 2
021	166_021	ICAL	TVH 3			06/16/07 01:51	1.0	12 2
022	166_022	ICAL	TVH 4			06/16/07 02:29	1.0	13 2
023	166_023	ICAL	TVH 5			06/16/07 03:07	1.0	13 2
024	166_024	X	IB			06/16/07 03:45	1.0	2
025	166_025	ICV	TVH			06/16/07 04:23	1.0	3 2
026	166_026	ICV	TVH			06/16/07 05:01	1.0	3 2
027	166_027	X	IB			06/16/07 05:39	1.0	2
028	166_028	CMARKER				06/16/07 06:17	1.0	1 2
030	166_030	ICAL	BTXE_4			06/18/07 11:26	1.0	6 2
031	166_031	X	IB			06/18/07 12:04	1.0	2
032	166_032	ICV	MBTXE			06/18/07 12:42	1.0	9 2
033	166_033	IB	CALIB			06/18/07 13:30	1.0	2
034	166_034	ICAL	TFT/BFB_1			06/18/07 14:14	1.0	14
035	166_035	ICAL	TFT/BFB_2			06/18/07 14:54	1.0	15
036	166_036	ICAL	TFT/BFB_3			06/18/07 15:48	1.0	16
037	166_037	ICAL	TFT/BFB_4			06/18/07 16:37	1.0	17
038	166_038	ICAL	TFT/BFB_5			06/18/07 17:20	1.0	18

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Standards used: 1=S6383 2=S6435 3=S6393 4=S5943 5=S6305 6=S6304 7=S6303 8=S6302 9=S6204 10=S5937 11=S5936 12=S5935 13=S5934 14=S5951 15=S5952 16=S5953 17=S5954 18=S5955

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307374881

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 09/17/07 08:01
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	260_001	X	IB			09/17/07 08:01	1.0	1	
002	260_002	X	CMARK			09/17/07 08:39	1.0	2 1	
003	260_003	X	CCV			09/17/07 09:17	1.0	3 1	
004	260_004	X	CMARK			09/17/07 10:28	1.0	2 1	
005	260_005	CCV/BS	QC406322	Soil	129517	09/17/07 11:06	1.0	3 1	4:BZME=5900
006	260_006	BLANK	QC406321	Soil	129517	09/17/07 12:17	1.0	1	2:BR4FBZ-PID=3600
007	260_007	BSD	QC406323	Soil	129517	09/17/07 13:28	1.0	3 1	4:BZME=6000
008	260_008	SAMPLE	197543-014	Soil	129517	09/17/07 14:36	1.0	1	2:F3BZME-PID=2200
009	260_009	SAMPLE	197543-002	Soil	129517	09/17/07 16:55	1.0	1	10:GAS:7-12=1100000
010	260_010	SAMPLE	197543-002	Soil	129517	09/17/07 17:57	8.0	1	2:F3BZME-PID=3400
011	260_011	SAMPLE	197543-004	Soil	129517	09/17/07 18:35	1.0	1	2:BR4FBZ-PID=2900
012	260_012	SAMPLE	197543-006	Soil	129517	09/17/07 19:13	1.0	1	2:BR4FBZ-PID=2700
013	260_013	SAMPLE	197543-008	Soil	129517	09/17/07 19:51	1.0	1	2:BR4FBZ-PID=2800
014	260_014	SAMPLE	197543-010	Soil	129517	09/17/07 20:28	1.0	1	2:BR4FBZ-PID=3200
015	260_015	X	MEOHMB			09/17/07 21:06	5.0	1	
016	260_016	CCV	TVH			09/17/07 21:44	1.0	3 1	3:BR4FBZ-PID=3100
017	260_017	CCV	TVH			09/17/07 22:22	1.0	3 1	4:BR4FBZ-PID=3300
018	260_018	X	CMARK			09/17/07 23:00	1.0	2 1	
019	260_019	X	IB			09/17/07 23:38	1.0	1	
020	260_020	IB	CALIB			09/18/07 00:16	1.0	1	2:BR4FBZ-PID=3100
021	260_021	ICAL	BTXE_1			09/18/07 00:54	1.0	4 1	
022	260_022	ICAL	MBTXE_2			09/18/07 01:32	1.0	5 1	
023	260_023	ICAL	MBTXE_3			09/18/07 02:10	1.0	5 1	
024	260_024	ICAL	MBTXE_4			09/18/07 02:48	1.0	5 1	
025	260_025	ICAL	MBTXE_5			09/18/07 03:26	1.0	6 1	
026	260_026	ICAL	MBTXE_6			09/18/07 04:04	1.0	6 1	
027	260_027	X	ICAL			09/18/07 04:41	1.0	6 1	
028	260_028	ICAL	MTBE_7			09/18/07 05:19	1.0	7 1	
029	260_029	X	IB			09/18/07 05:57	1.0	1	
030	260_030	X	ICV			09/18/07 06:35	1.0	8 1	
031	260_031	X	ICV			09/18/07 07:13	1.0	8 1	
032	260_032	ICAL	MBTXE_7			09/18/07 11:08	1.0	6 1	
033	260_033	X	IB			09/18/07 12:36	1.0	1	
034	260_034	ICV	MBTXE			09/18/07 13:14	1.0	8 1	

Analyst: PDM Date: 09/18/07 Reviewer: RH Date: 09/19/07

Standards used: 1=S6927 2=S6725 3=S7170 4=S6683 5=S6682 6=S6681 7=S6302 8=S6729

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307417180

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 10/16/07 09:54
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	289_001	X	CMARK			10/16/07 09:54	1.0	1 2	
002	289_002	CCV	TVH			10/16/07 10:32	1.0	3 2	
003	289_003	X	IB			10/16/07 11:28	1.0	2	
004	289_004	BLANK	QC410702	Soil	130580	10/16/07 12:06	1.0	2	
005	289_005	LCS	QC410703	Soil	130580	10/16/07 13:13	1.0	3 2	
006	289_006	SAMPLE	198354-007	Soil	130580	10/16/07 13:51	20.0	2	1:GAS:7-12=54000
007	289_007	SAMPLE	198354-013	Soil	130580	10/16/07 14:29	20.0	2	
008	289_008	SAMPLE	198354-006	Soil	130580	10/16/07 15:06	1.0	2	4:GAS:7-12=510000
009	289_009	SAMPLE	198354-008	Soil	130580	10/16/07 15:44	1.0	2	4:GAS:7-12=230000
010	289_010	X	IB			10/16/07 16:22	1.0	2	
011	289_011	SAMPLE	198354-006	Soil	130580	10/16/07 17:00	25.0	2	1:GAS:7-12=54000
012	289_012	SAMPLE	198354-007	Soil	130580	10/16/07 17:38	40.0	2	
013	289_013	SAMPLE	198354-008	Soil	130580	10/16/07 18:16	25.0	2	
014	289_014	SAMPLE	198354-012	Soil	130580	10/16/07 18:54	50.0	2	2:GAS:7-12=99000
015	289_015	CCV	TVH			10/16/07 19:32	1.0	3 2	
016	289_016	X	CCV			10/16/07 20:10	1.0	3 2	
017	289_017	X	CMARK			10/16/07 20:48	1.0	1 2	
018	289_018	SAMPLE	198354-006	Soil	130580	10/16/07 21:25	40.0	2	
019	289_019	MSS	198354-002	Soil	130580	10/16/07 22:03	1.0	2	
020	289_020	SAMPLE	198354-003	Soil	130580	10/16/07 22:41	1.0	2	
021	289_021	SAMPLE	198354-004	Soil	130580	10/16/07 23:19	1.0	2	
022	289_022	SAMPLE	198354-015	Soil	130580	10/16/07 23:57	1.0	2	
023	289_023	SAMPLE	198354-016	Soil	130580	10/17/07 00:35	1.0	2	2:GAS:7-12=110000
024	289_024	X	IB			10/17/07 01:12	1.0	2	
025	289_025	SAMPLE	198325-010	Soil	130580	10/17/07 01:50	1.0	2	
026	289_026	SAMPLE	198325-011	Soil	130580	10/17/07 02:28	1.0	2	
027	289_027	MS	QC410704	Soil	130580	10/17/07 03:06	1.0	3 2	
028	289_028	MSD	QC410705	Soil	130580	10/17/07 03:44	1.0	3 2	
029	289_029	CCV	TVH			10/17/07 04:22	1.0	3 2	
030	289_030	X	CCV			10/17/07 05:00	1.0	3 2	
031	289_031	X	CMARK			10/17/07 05:37	1.0	1 2	
032	289_032	SAMPLE	198325-012	Soil	130580	10/17/07 06:15	1.0	2	
033	289_033	SAMPLE	198325-013	Soil	130580	10/17/07 06:53	1.0	2	
034	289_034	SAMPLE	198352-001	Soil	130580	10/17/07 07:31	1.0	2	
035	289_035	SAMPLE	198380-001	Soil	130580	10/17/07 08:09	1.0	2	
036	289_036	SAMPLE	198380-002	Soil	130580	10/17/07 08:47	1.0	2	
037	289_037	SAMPLE	198349-001	Soil	130580	10/17/07 09:25	1.0	2	
038	289_038	SAMPLE	198354-012	Soil	130580	10/17/07 11:21	200.0	2	2:GAS:7-12=84000
039	289_039	SAMPLE	198354-016	Soil	130580	10/17/07 11:59	10.0	2	
040	289_040	SAMPLE	198349-001	Soil	130580	10/17/07 12:37	1.0	2	
041	289_041	SAMPLE	198354-012	Soil	130580	10/17/07 13:15	500.0	2	
042	289_042	X	MEOHMB			10/17/07 13:53	5.0	2	
043	289_043	CCV	TVH			10/17/07 14:41	1.0	3 2	

Analyst: MJM Date: 10/17/07 Reviewer: _____ Date: _____

Standards used: 1=S6725 2=S7356 3=S7423

REPORTING SUMMARY FOR 198380 TVH Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
198380-001	GC04	10/17/07 08:09	1.0	+	+	+	
198380-002	GC04	10/17/07 08:47	1.0	+	+	+	
QC410702	GC04	10/16/07 12:06	1.0	+	+	+	
QC410703	GC04	10/16/07 13:13	1.0	+	+	+	
QC410704	GC04	10/17/07 03:06	1.0	+	+	+	
QC410705	GC04	10/17/07 03:44	1.0	+	+	+	

10 Project TVH/BTXE SOIL PREP LOG BK2583

Continued from Page

SAMPLE ID (CORE ID) BAR	WEIGHT (G)	COMP (%)	NaHSO4 (%)	COMMENTS
198322 -002 G	1.03	NO	NO	MOM 10/15/07
MS	0.96			
MSD	0.98			
-003 D	0.97			
198345 -019 COMP	1.07	YES		COMP 1A, 2A @ 30g per KM2
-020	1.02			3A, 4A
-021	1.03			5A, 6A
-022	1.00			7A, 8A
-023	0.99			9A, 10A
-024	0.97			11A, 12A
-025	1.02			13A, 14A
-026	0.98			15A, 16A
-027	1.04			17A, 18A
198354 -002 A	1.02	NO	NO	MOM 10/16/07
MS:	1.01			
MSD:	1.03			
-003	1.01			
-004	1.06			
-006	0.97			
-008	1.01			
-012	1.02			
-015	0.99			
-016	0.96			
198364 -001	0.99			
198380 -001 B	1.00			
-002 C	0.97			
198325 -010 A	1.06			
-011	1.00			
-012				
-013	0.99			
198352 -001 B	1.01			
198349 -001 B	13.32			Field prep'd w/ high weight
198351 -024 A	1.04			
-025	0.99			
MS:	1.04			
MSD:	1.01			

Continued on Page

Signed — Date 10/16/07

Read and Understood By

Signed — Date

Project TVA/BTXE SOIL PREP LOG BK2583

Continued from Page —

SAMPLE ID/CORE ID/STAR	WEIGHT (g)	LOMP (%)	NaHSO3 (%)	COMMENTS
198351-029 A	1.05	NO	NO	MJM 10/16/07
↓ -030 ↓	↓	↓	↓	↓
198349-001A	14.16	NO	NO	MJM 10/17/07 High weight + Encore.

Continued on Page

MJM — Signed

10/17/07 — Date

Read and Understood By

Signed

Date

28
PROJECT MeOH Extraction LOG

Notebook No. BK2246

Continued From Page

DATE	ANALYST	SAMPLE ID / CORE ID / SHR	WEIGHT (g)	MeOH (mL)	ANALYSIS	COMMENTS
10/5/07	MSM	198024-001 A	5.01	5.0	TVH	BJCS507
			5.01			Not used MSM 10/5/07
10/5/07	MSM	MeOH MB	—	5.0	TVH	BJCS507
		198024-001 A	5.01			
		198033-001 D	5.04			
		-002	4.98			
		-006 A	5.04			
		198011-003 D	4.78	4.8	TVH	
10/11/07	MSM	MeOH MB	—	5.0	TVH	BJCS507
		198227-006 A	4.96			
10/12/07	MSM	198204-001 A	5.01	5.0	TVH	BJCS507
		MeOH MB	—			
10/5/07	MSM	MeOH MB	—	5.0	TVH/MBTXE	BJCS507
		198351-005 A	5.02			
		-010	4.99			
		-008	4.98			
		-021	4.99			
10/6/07	MSM	MeOH MB	—	5.0	TVH/MBTXE	BJCS507
		198354-007 A	4.98			
		-013	4.99			
		198351-013 A	5.00		TVH/MBTXE	
		-015	5.04			
		-018	5.02			
		-028	5.01			
		-031	5.03			
		198354-006 A	4.98		TVH	
		-008	5.04			
		-012	5.00			
10/17/07	MSM	MeOH MB	—	5.0	TVH	BJCS507
		198354-016 A	5.00			

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
CP	10/8/07		

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/15/07
Units:	mg/Kg	Received:	10/15/07
Diln Fac:	1.000		

Field ID:	1065BC400	Batch#:	130878
Type:	SAMPLE	Prepared:	10/24/07
Lab ID:	198380-001	Analyzed:	10/25/07
Basis:	dry	Cleanup Method:	EPA 3630C
Moisture:	1%		

Analyte	Result	RL	MDL
Diesel C12-C24	1.1 Y	1.0	0.20
Fuel Oil C24-C36	1.6 J	5.0	1.2

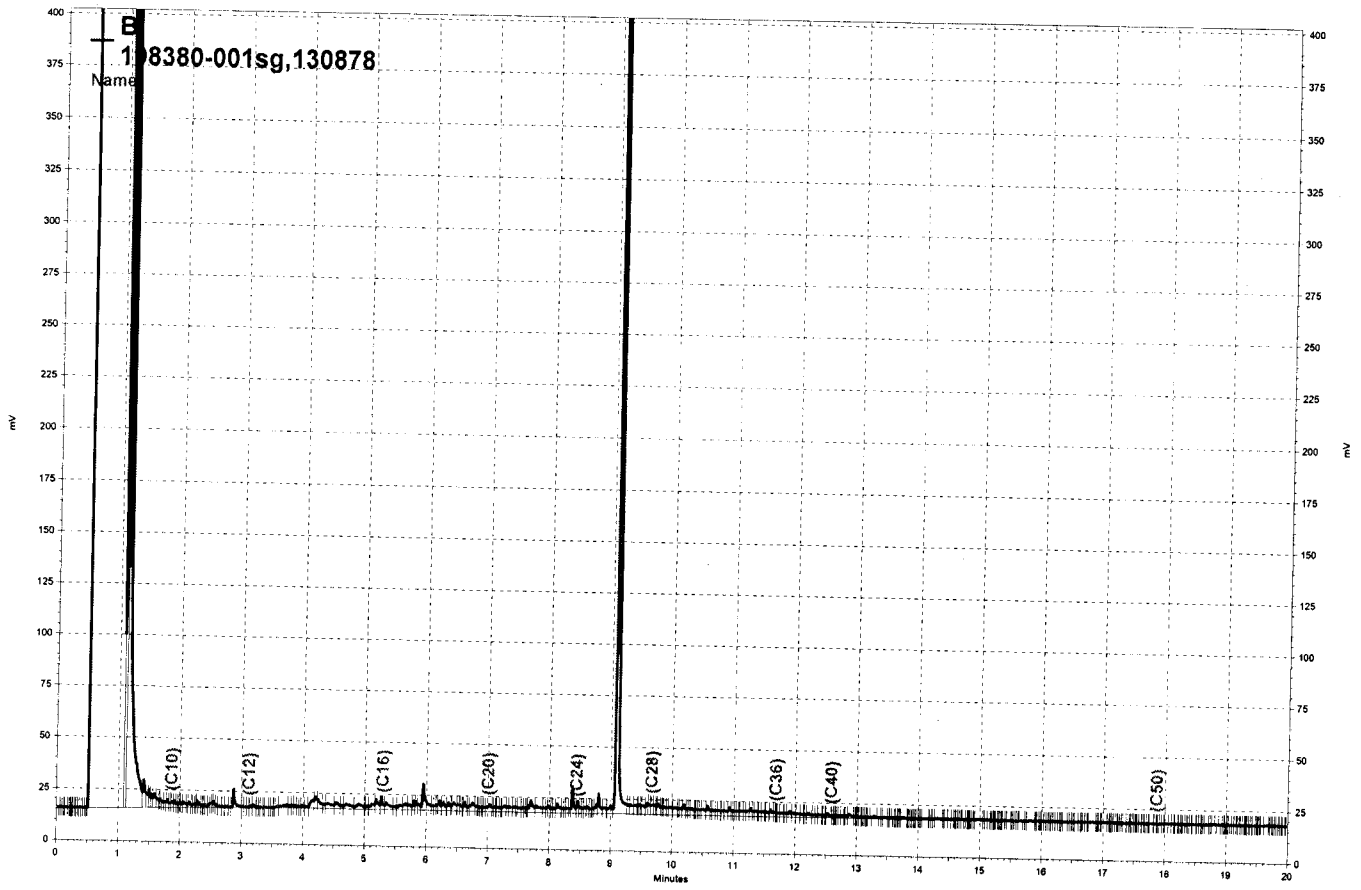
Surrogate	%REC	Limits
Hexacosane	91	65-135

Field ID:	1065BC401	Batch#:	130710
Type:	SAMPLE	Prepared:	10/19/07
Lab ID:	198380-002	Analyzed:	10/20/07
Basis:	dry	Cleanup Method:	EPA 3630C
Moisture:	3%		

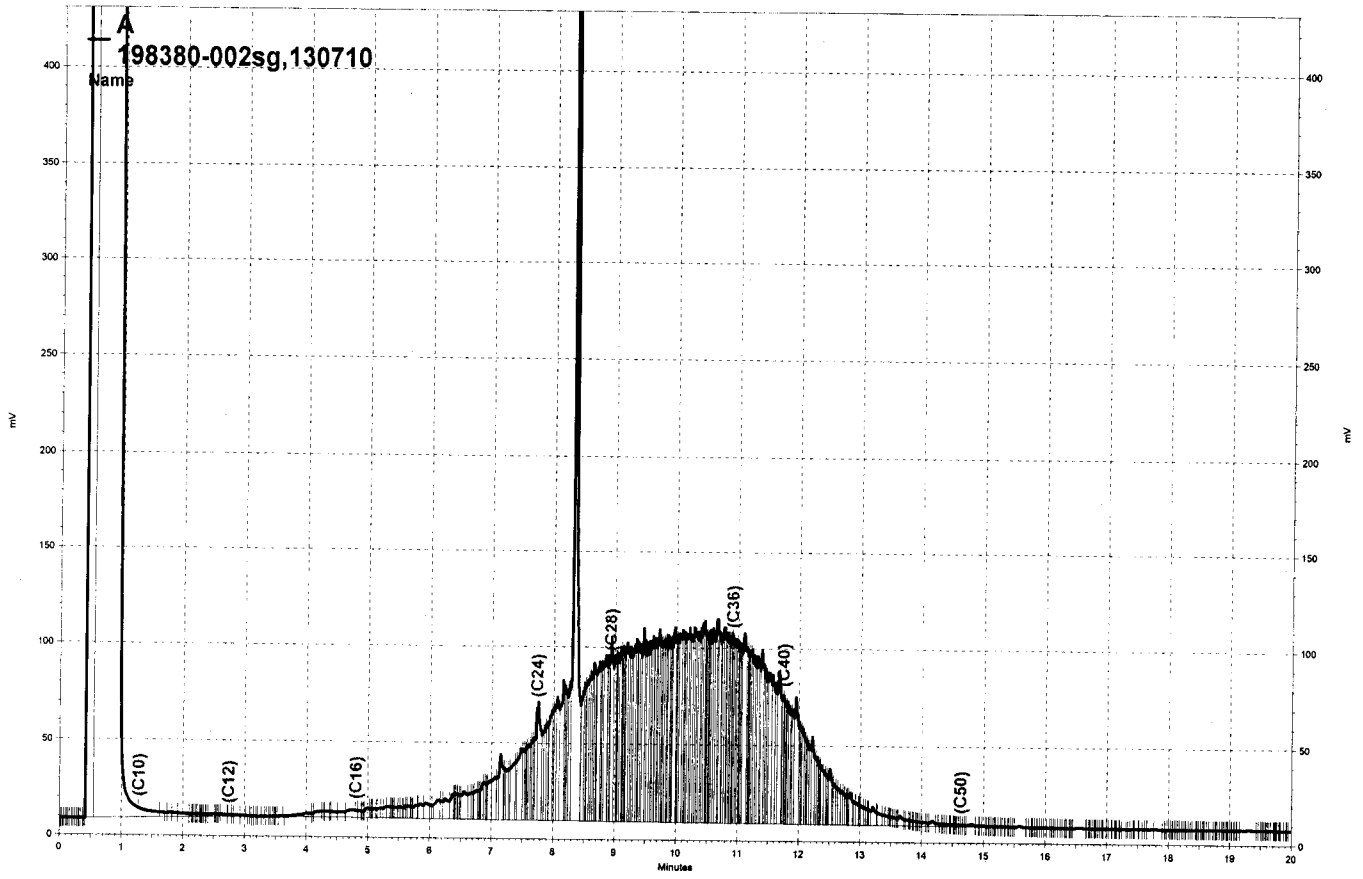
Analyte	Result	RL	MDL
Diesel C12-C24	4.9 Y	1.0	0.16
Fuel Oil C24-C36	39	5.1	1.4

Surrogate	%REC	Limits
Hexacosane	84	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\296b056, B



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\291a073, A

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/15/07
Units:	mg/Kg	Received:	10/15/07
Diln Fac:	1.000		

Type:	BLANK	Prepared:	10/19/07
Lab ID:	QC411245	Analyzed:	10/19/07
Basis:	as received	Cleanup Method:	EPA 3630C
Batch#:	130710		

Analyte	Result	RL	MDL
Diesel C12-C24	0.19 J	0.99	0.16
Fuel Oil C24-C36	ND	5.0	1.1

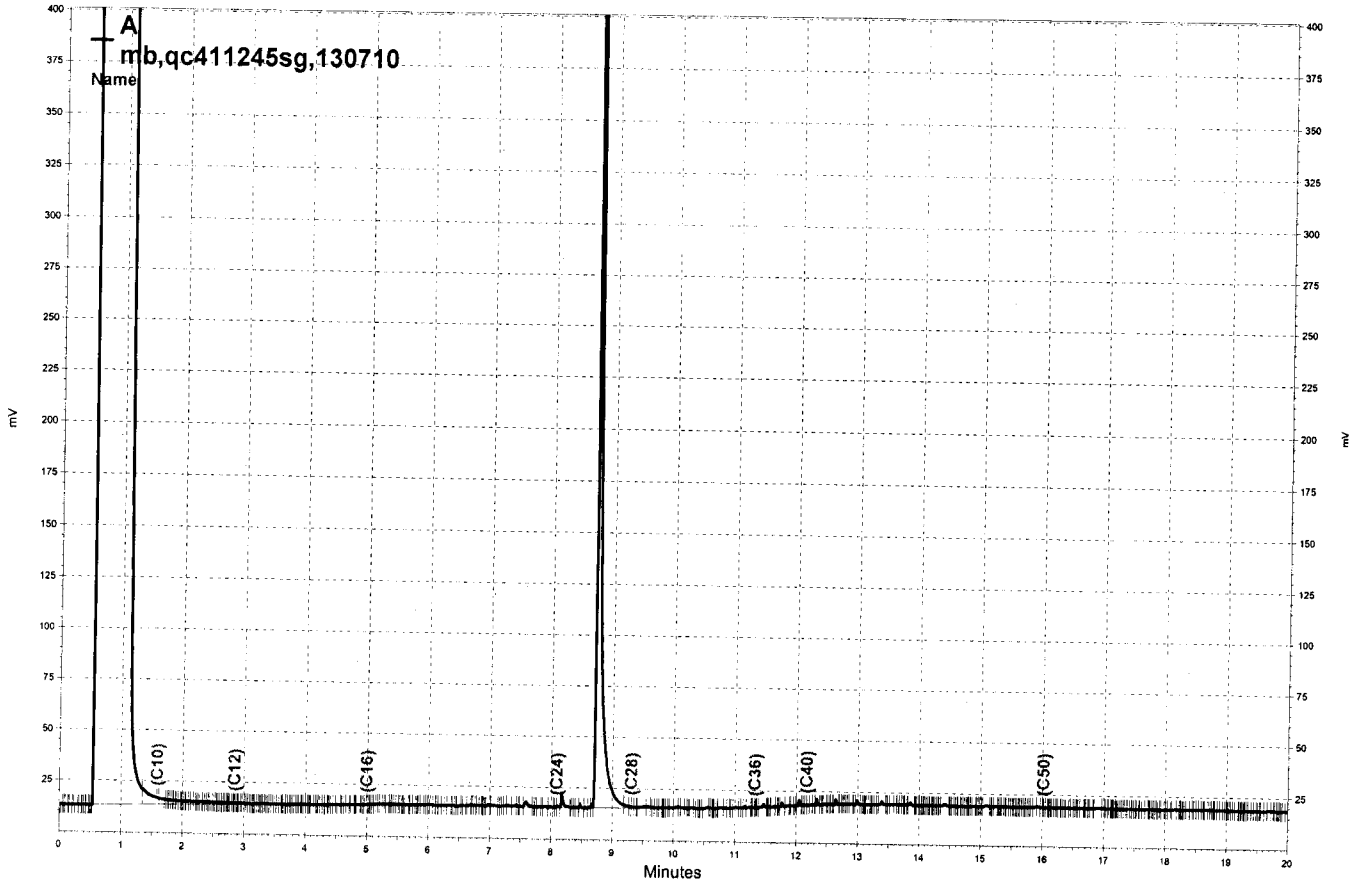
Surrogate	%REC	Limits
Hexacosane	87	65-135

Type:	BLANK	Prepared:	10/24/07
Lab ID:	QC411953	Analyzed:	10/25/07
Basis:	as received	Cleanup Method:	EPA 3630C
Batch#:	130878		

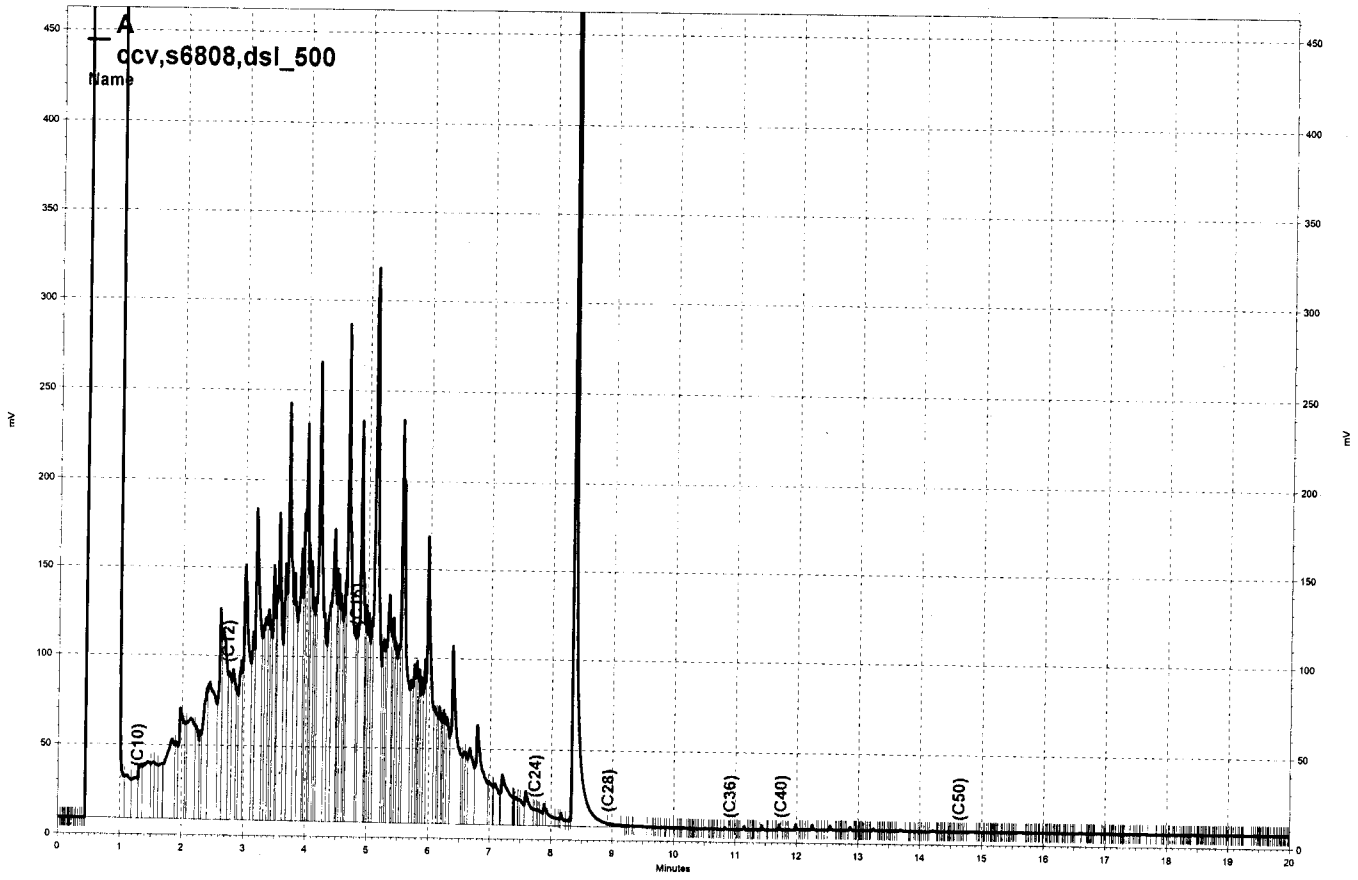
Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.20
Fuel Oil C24-C36	ND	5.0	1.2

Surrogate	%REC	Limits
Hexacosane	91	65-135

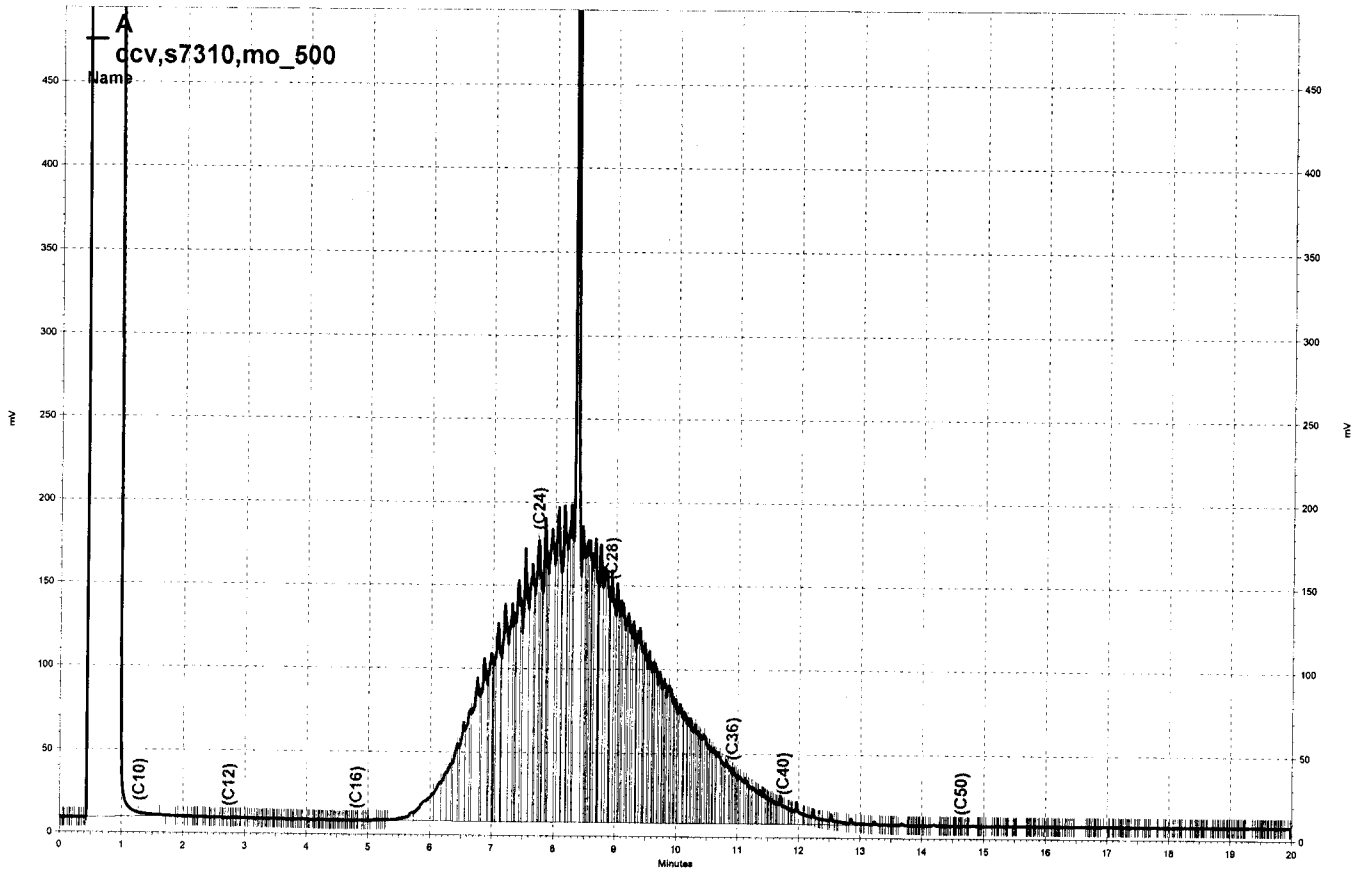
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\291a060, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\291a067, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\291a068, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC411246	Batch#:	130710
Matrix:	Soil	Prepared:	10/19/07
Units:	mg/Kg	Analyzed:	10/19/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	50.00	50.99	102	65-135

Surrogate	%REC	Limits
Hexacosane	103	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC411954	Batch#:	130878
Matrix:	Soil	Prepared:	10/24/07
Units:	mg/Kg	Analyzed:	10/24/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.78	41.61	84	65-135

Surrogate	%REC	Limits
Hexacosane	99	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	130710
MSS Lab ID:	198379-005	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07
Units:	mg/Kg	Prepared:	10/19/07
Basis:	dry	Analyzed:	10/19/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC411247
Moisture: 8%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	0.3088	54.26	42.72	78	65-135

Surrogate	%REC	Limits
Hexacosane	79	65-135

Type: MSD
Lab ID: QC411248
Moisture: 8%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	53.82	46.71	86	65-135	10	35

Surrogate	%REC	Limits
Hexacosane	86	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	130878
MSS Lab ID:	198326-020	Sampled:	10/12/07
Matrix:	Soil	Received:	10/12/07
Units:	mg/Kg	Prepared:	10/24/07
Basis:	dry	Analyzed:	10/25/07
Diln Fac:	5.000		

Type: MS
Lab ID: QC411955

Moisture: 1%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	7.588	50.37	102.8	189 *	65-135

Surrogate	%REC	Limits
Hexacosane	83	65-135

Type: MSD
Lab ID: QC411956

Moisture: 1%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	50.47	54.64	93	65-135	61 *	35

Surrogate	%REC	Limits
Hexacosane	80	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198380 GCSV Soil
EPA 8015B

Inst : GC11A
Calnum : 117061448001

Name : Diesel
Cal Date : 11-FEB-2007

ICV 117061448016 (042a016 12-FEB-2007) stds: S5419 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	58249	55207	500.0	473.9	mg/L	-5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

"Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

117245263001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183006
Units : mg/L

Name : dsl
Date : 10-OCT-2007 12:00
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_003	227408183003	DSL_10	10-OCT-2007 12:00	S6612
L2	283_004	227408183004	DSL_100	10-OCT-2007 12:29	S6613
L3	283_005	227408183005	DSL_500	10-OCT-2007 12:58	S6614
L4	283_006	227408183006	DSL_1000	10-OCT-2007 13:27	S6615
L5	283_007	227408183007	DSL_5000	10-OCT-2007 13:56	S6611
L6	283_008	227408183008	DSL_7500	10-OCT-2007 14:25	S6616

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	57537	63636	64700	63713	59922	65554	AVRG		1.60E-5		62510	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	B	10.00	-8	100.0	2	500.0	4	1000	2	5000	-4	7500	5

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

227408183006

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198380 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 227408183006

Name : dsl
Cal Date : 10-OCT-2007

ICV 227408183010 (283_010 10-OCT-2007) stds: S6617 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	62510	57512	500.0	460.0	mg/L	-8	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183005
Units : mg/L

Name : Motor Oil
Date : 10-OCT-2007 16:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_012	227408183012	MO_50	10-OCT-2007 16:20	S6848
L2	283_013	227408183013	MO_250	10-OCT-2007 16:48	S6849
L3	283_014	227408183014	MO_500	10-OCT-2007 17:16	S6850
L4	283_015	227408183015	MO_1000	10-OCT-2007 17:44	S6851
L5	283_040	227408183040	MO_5000	11-OCT-2007 10:35	S6846

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	39282	41294	41437	39011	31093	AVRG		2.60E-5		38423	11	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	B	50.00	2	250.0	7	500.0	8	1000	2	5000	-19

Analyst: ATL Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

227408183005

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183002
Units : mg/L

Name : HEX
Date : 10-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_019	227408183019	HEX_5	10-OCT-2007 19:38	S7036
L2	283_020	227408183020	HEX_10	10-OCT-2007 20:06	S7037
L3	283_021	227408183021	HEX_25	10-OCT-2007 20:34	S7038
L4	283_022	227408183022	HEX_50	10-OCT-2007 21:03	S7039
L5	283_023	227408183023	HEX_100	10-OCT-2007 21:31	S7040
L6	283_024	227408183024	HEX_200	10-OCT-2007 22:00	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	62663	62290	59838	61265	60611	52506	AVRG		1.67E-5		59862	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	5	10.00	4	25.00	0	50.00	2	100.0	1	200.0	-12

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

227408183002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177330472002
Units : mg/L

Name : MO
Date : 17-AUG-2007 18:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	229a015	177330472015	MO_50	17-AUG-2007 18:23	S6848
L2	229a016	177330472016	MO_250	17-AUG-2007 18:51	S6849
L3	229a017	177330472017	MO_500	17-AUG-2007 19:18	S6850
L4	229a018	177330472018	MO_1000	17-AUG-2007 19:45	S6851
L5	229a019	177330472019	MO_5000	17-AUG-2007 20:13	S6846
L6	229a020	177330472020	MO_7500	17-AUG-2007 20:40	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	50681	53699	55379	55614	54069	53736	AVRG		1.86E-5		53863	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-6	250.0	0	500.0	3	1000	3	5000	0	7500	0

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177377811001
Units : mg/L

Name : hex 5pt.
Date : 19-SEP-2007 19:51
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	262a024	177377811024	HEX_5	19-SEP-2007 19:51	S7036
L2	262a025	177377811025	HEX_10	19-SEP-2007 20:18	S7037
L3	262a026	177377811026	HEX_25	19-SEP-2007 20:46	S7038
L4	262a027	177377811027	HEX_50	19-SEP-2007 21:13	S7039
L5	262a028	177377811028	HEX_100	19-SEP-2007 21:41	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	90416	88456	87718	89582	89186	AVRG		1.12E-5		89072	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	-2	50.00	1	100.0	0

Analyst: ZA Date: 09/19/07 Reviewer: LH Date: 09/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177377811002
Units : mg/L

Name : dsl
Date : 21-SEP-2007 03:01
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	262a061	177377811061	DSL_10	21-SEP-2007 03:01	S6612
L2	262a062	177377811062	DSL_100	21-SEP-2007 03:28	S6613
L3	262a063	177377811063	DSL_500	21-SEP-2007 03:55	S6614
L4	262a064	177377811064	DSL_1000	21-SEP-2007 04:23	S6615
L5	262a065	177377811065	DSL_5000	21-SEP-2007 04:51	S6611
L6	262a066	177377811066	DSL_7500	21-SEP-2007 05:18	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	63894	76546	72415	72572	72480	73307	AVRG		1.39E-5		71869	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-11	100.0	7	500.0	1	1000	1	5000	1	7500	2

Analyst: JDG Date: 09/21/07 Reviewer: CW Date: 09/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198380 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 177377811002

Name : dsl
Cal Date : 21-SEP-2007

ICV 177377811068 (262a068 21-SEP-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	71869	71919	500.0	500.4	mg/L	0	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC11A
Seqnum : 117420451067
Standards: S6808

Run Name : DSL_500
File : 291a067

IDF : 1.0
Time : 20-OCT-2007 07:18

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	55080	500.0	472.8	mg/L	-5	15	
Hexacosane	117245263001	19-JUN-2007	69898	62695	50.00	44.85	mg/L	-10	15	

Analyst: ATL Date: 10/20/07 Reviewer: LH Date: 10/22/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117420451068 File : 291a068 Time : 20-OCT-2007 07:46
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	42530	500.0	513.0	mg/L	3	15	
Hexacosane	117245263001	19-JUN-2007	69898	66850	50.00	47.82	mg/L	-4	15	

Analyst: ATL Date: 10/20/07 Reviewer: LH Date: 10/22/07

117420451068

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_500 IDF : 1.0
Seqnum : 117420451078 File : 291a078 Time : 20-OCT-2007 12:27
Standards: S6808

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	56954	500.0	488.9	mg/L	-2	15	
Hexacosane	117245263001	19-JUN-2007	69898	65774	50.00	47.05	mg/L	-6	15	

Analyst: JDG Date: 10/22/07 Reviewer: ATL Date: 10/22/07

117420451078

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC11A
Seqnum : 117420451079
Standards: S7310

Run Name : MO_500
File : 291a079

IDF : 1.0
Time : 20-OCT-2007 12:55

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	43793	500.0	528.2	mg/L	6	15	
Hexacosane	117245263001	19-JUN-2007	69898	67979	50.00	48.63	mg/L	-3	15	

Analyst: JDG Date: 10/22/07 Reviewer: ATL Date: 10/22/07

117420451079

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC11A
Seqnum : 117428487019
Standards: S6807

Run Name : DSL_250
File : 297a019

IDF : 1.0
Time : 25-OCT-2007 00:12

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	58865	250.0	252.6	mg/L	1	15	
Hexacosane	117245263001	19-JUN-2007	69898	62472	50.00	44.69	mg/L	-11	15	

Analyst: JDG Date: 10/25/07 Reviewer: LH Date: 10/25/07

117428487019

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC11A
Seqnum : 117428487035
Standards: S6809

Run Name : DSL_1000
File : 297a035

IDF : 1.0
Time : 25-OCT-2007 07:39

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	57034	1000	979.1	mg/L	-2	15	
Hexacosane	117245263001	19-JUN-2007	69898	67262	50.00	48.11	mg/L	-4	15	

Analyst: JDG Date: 10/25/07 Reviewer: LH Date: 10/25/07

117428487035

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
Seqnum : 227427384046 File : 296_046 Time : 24-OCT-2007 22:03
Standards: S6808

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	57262	500.0	458.0	mg/L	-8	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	65721	50.00	54.89	mg/L	10	15	

Analyst: ATL Date: 10/25/07 Reviewer: JDG Date: 10/25/07

227427384046

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227427384047 File : 296_047 Time : 24-OCT-2007 22:32
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	41832	500.0	544.4	mg/L	9	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	67188	50.00	56.12	mg/L	12	15	

Analyst: ATL Date: 10/25/07 Reviewer: JDG Date: 10/25/07

227427384047

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
Seqnum : 227427384058 File : 296_058 Time : 25-OCT-2007 03:45
Standards: S6807

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	58463	250.0	233.8	mg/L	-6	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	64454	50.00	53.84	mg/L	8	15	

Analyst: ATL Date: 10/25/07 Reviewer: JDG Date: 10/25/07

227427384058

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC14B
Seqnum : 227427384059
Standards: S7310

Run Name : MO_500
File : 296_059

IDF : 1.0
Time : 25-OCT-2007 04:14

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	42379	500.0	551.5	mg/L	10	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	68113	50.00	56.89	mg/L	14	15	

Analyst: ATL Date: 10/25/07 Reviewer: JDG Date: 10/25/07

227427384059

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 177420073050
Standards: S6808

Run Name : DSL_500
File : 291a050

IDF : 1.0
Time : 19-OCT-2007 16:06

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177377811002	21-SEP-2007	71869	71491	500.0	497.4	mg/L	-1	15	
Hexacosane	177377811001	19-SEP-2007	89072	82515	50.00	46.32	mg/L	-7	15	

Analyst: ATL Date: 10/20/07 Reviewer: JDG Date: 10/22/07

177420073050

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177420073051 File : 291a051 Time : 19-OCT-2007 16:34
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	50510	500.0	468.9	mg/L	-6	15	
Hexacosane	177377811001	19-SEP-2007	89072	86170	50.00	48.37	mg/L	-3	15	

ATL 10/19/07 : MO C28-C40 not used

Analyst: ATL Date: 10/20/07 Reviewer: JDG Date: 10/22/07

177420073051

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
Seqnum : 177420073067 File : 291a067 Time : 20-OCT-2007 09:50
Standards: S6807

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177377811002	21-SEP-2007	71869	75481	250.0	262.6	mg/L	5	15	
Hexacosane	177377811001	19-SEP-2007	89072	80338	50.00	45.10	mg/L	-10	15	

Analyst: ATL Date: 10/20/07 Reviewer: JDG Date: 10/22/07

177420073067

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177420073068 File : 291a068 Time : 20-OCT-2007 10:17
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	52044	500.0	483.1	mg/L	-3	15	
Hexacosane	177377811001	19-SEP-2007	89072	86833	50.00	48.74	mg/L	-3	15	

Analyst: JDG Date: 10/22/07 Reviewer: LH Date: 10/22/07

177420073068

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117037956

Instrument : GC11A
Method : EPA 8015B

Begun : 01/26/07 08:36
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	026a001	X	IB			01/26/07 08:36	1.0	
002	026a002	XCCV	DSL_500			01/26/07 09:04	1.0	1
003	026a003	XCCV	MO_500			01/26/07 09:32	1.0	2
006	026a006	X	HEX_5			01/26/07 16:57	1.0	
007	026a007	X	IB			01/26/07 17:25	1.0	
008	026a008	CMARKER	C8-C50			01/26/07 17:55	1.0	3
009	026a009	X	CALIB			01/26/07 18:22	1.0	
010	026a010	XICAL	DSL_10			01/26/07 18:50	1.0	4
011	026a011	XICAL	DSL_100			01/26/07 19:18	1.0	5
012	026a012	XICAL	DSL_500			01/26/07 19:46	1.0	6
013	026a013	XICAL	DSL_1000			01/26/07 20:14	1.0	7
014	026a014	XICAL	DSL_5000			01/26/07 20:42	1.0	8
015	026a015	XICAL	DSL_7500			01/26/07 21:10	1.0	9
016	026a016	X	IB			01/26/07 21:38	1.0	
017	026a017	XICV	DSL_500			01/26/07 22:06	10.0	10
018	026a018	XICV	DSL_500			01/26/07 22:34	10.0	10
019	026a019	IB	CALIB			01/26/07 23:02	1.0	
020	026a020	ICAL	MO_50			01/26/07 23:30	1.0	11
021	026a021	ICAL	MO_250			01/26/07 23:58	1.0	12
022	026a022	ICAL	MO_500			01/27/07 00:26	1.0	13
023	026a023	ICAL	MO_1000			01/27/07 00:54	1.0	14
024	026a024	ICAL	MO_5000			01/27/07 01:22	1.0	15
025	026a025	IB	CALIB			01/27/07 01:50	1.0	
026	026a026	ICAL	HEX_5			01/27/07 02:18	1.0	16
027	026a027	ICAL	HEX_10			01/27/07 02:46	1.0	17
028	026a028	ICAL	HEX_25			01/27/07 03:14	1.0	18
029	026a029	ICAL	HEX_50			01/27/07 03:42	1.0	19
030	026a030	ICAL	HEX_100			01/27/07 04:10	1.0	20
031	026a031	ICAL	HEX_200			01/27/07 04:38	1.0	21
032	026a032	IB	CALIB			01/27/07 05:06	1.0	
033	026a033	ICAL	BUNK_50			01/27/07 05:35	1.0	22
034	026a034	ICAL	BUNK_500			01/27/07 06:03	1.0	23
035	026a035	ICAL	BUNK_1250			01/27/07 06:31	1.0	24
036	026a036	ICAL	BUNK_2500			01/27/07 06:59	1.0	25
037	026a037	ICAL	BUNK_5000			01/27/07 07:27	1.0	26
038	026a038	IB	CALIB			01/27/07 07:55	1.0	
039	026a039	ICAL	JP5_10			01/27/07 08:23	1.0	27
040	026a040	ICAL	JP5_100			01/27/07 08:52	1.0	28
041	026a041	ICAL	JP5_500			01/27/07 09:20	1.0	29
042	026a042	ICAL	JP5_1500			01/27/07 09:48	1.0	30
043	026a043	ICAL	JP5_3000			01/27/07 10:16	1.0	31
044	026a044	ICAL	JP5_5000			01/27/07 10:44	1.0	32
045	026a045	X	IB			01/27/07 11:12	1.0	

CP 01/29/07 : Need to re-run diesel ical. standards have concentrated and need to be re-made then re-run.

Analyst: CP Date: 01/29/07 Reviewer: MCH Date: 01/29/07

Standards used: 1=S5157 2=S5274 3=S4049 4=S4854 5=S4540 6=S4542 7=S4543 8=S4538 9=S4694 10=S4615 11=S4754 12=S4755 13=S4756 14=S4758 15=S4753 16=S4639 17=S4640 18=S4641 19=S5402 20=S4644 21=S4645 22=S4708 23=S4709 24=S4710 25=S4711 26=S4712 27=S4284 28=S4285 29=S4286 30=S4287 31=S4288 32=S4283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117061448

Instrument : GC11A
Method : EPA 8015B

Begun : 02/11/07 16:08
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	042a001	X	IB			02/11/07 16:08	1.0	
002	042a002	X	DSL_500			02/11/07 16:35	1.0	1
003	042a003	X	MO_500			02/11/07 17:03	1.0	2
004	042a004	X	MO_500			02/11/07 17:47	1.0	2
005	042a005	CCV	MO_500			02/11/07 18:33	1.0	2
006	042a006	CCV	DSL_500			02/11/07 19:02	1.0	1
007	042a007	CCV	DSL_500			02/11/07 19:30	1.0	1
008	042a008	X	IB			02/11/07 20:45	1.0	
009	042a009	ICAL	DSL_10			02/11/07 21:13	1.0	3
010	042a010	ICAL	DSL_100			02/11/07 21:41	1.0	4
011	042a011	ICAL	DSL_500			02/11/07 22:09	1.0	5
012	042a012	ICAL	DSL_1000			02/11/07 22:37	1.0	6
013	042a013	ICAL	DSL_5000			02/11/07 23:05	1.0	7
014	042a014	ICAL	DSL_7500			02/11/07 23:33	1.0	8
015	042a015	IB	CALIB			02/12/07 00:01	1.0	
016	042a016	ICV	DSL_500			02/12/07 00:28	1.0	9
017	042a017	XICV	DSL_500			02/12/07 00:57	1.0	9
018	042a018	X	IB			02/12/07 01:24	1.0	
019	042a019	CMARKER	C8-C50			02/12/07 09:23	1.0	10

CP 02/12/07 : carbon markers run after ical.

Analyst: CP Date: 02/12/07 Reviewer: MCH Date: 02/12/07

Standards used: 1=S5517 2=S4886 3=S5413 4=S5414 5=S5416 6=S5417 7=S5411 8=S5412 9=S5419 10=S4049

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117245263

Instrument : GC11A
Method : EPA 8015B

Begun : 06/19/07 07:43
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	170a001	X	PRIMER			06/19/07 07:43	1.0	
002	170a002	X	IB			06/19/07 08:11	1.0	
003	170a003	CMARKER	C8-C50			06/19/07 08:40	1.0	1
004	170a004	X	DSL_500			06/19/07 09:08	1.0	2
005	170a005	X	MO_500			06/19/07 09:36	1.0	3
006	170a006	X	MO_500			06/19/07 11:15	1.0	3
008	170a008	X	IB			06/19/07 12:29	1.0	
009	170a009	X	CMARKER			06/19/07 12:57	1.0	1
010	170a010	X	DSL_500			06/19/07 13:24	1.0	2
011	170a011	X	MO_500			06/19/07 13:52	1.0	3
012	170a012	IB	CALIB			06/19/07 15:16	1.0	
013	170a013	ICAL	HEX_5			06/19/07 15:44	1.0	4
014	170a014	ICAL	HEX_10			06/19/07 16:12	1.0	5
015	170a015	ICAL	HEX_25			06/19/07 16:39	1.0	6
016	170a016	ICAL	HEX_50			06/19/07 17:07	1.0	7
017	170a017	ICAL	HEX_100			06/19/07 17:35	1.0	8
018	170a018	ICAL	HEX_200			06/19/07 18:03	1.0	9
019	170a019	X	IB			06/19/07 18:30	1.0	

Analyst: DLM Date: 06/19/07 Reviewer: CW Date: 06/20/07

Standards used: 1=S4049 2=S6346 3=S6046 4=S5751 5=S5752 6=S5753 7=S5754 8=S5755 9=S5756

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117420451

Instrument : GC11A
Method : EPA 8015B

Begun : 10/18/07 23:31
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	291a001	X	IB				10/18/07 23:31	1.0		
002	291a002	CMARKER	C10-C50				10/18/07 23:59	1.0	1	
003	291a003	CCV	DSL_500				10/19/07 00:26	1.0	2	
004	291a004	CCV	MO_500				10/19/07 00:54	1.0	3	
005	291a005	CCV	HYFL_1250				10/19/07 01:22	1.0	4	1:BUNKC:12-40=5100
006	291a006	LCS	QC411166		Soil	130687	10/19/07 01:50	1.0		
007	291a007	BLANK	QC410905		Water	130627	10/19/07 02:18	1.0		
008	291a008	XBLANK	QC411165		Soil	130687	10/19/07 02:45	1.0		
009	291a009	SAMPLE	198394-001		Water	130627	10/19/07 03:13	1.0		
010	291a010	MS	QC411167		Soil	130687	10/19/07 03:41	1.0		14:BUNKC:12-40=29000
011	291a011	MSD	QC411168		Soil	130687	10/19/07 04:09	1.0		14:BUNKC:12-40=30000
012	291a012	SAMPLE	198325-013		Soil	130661	10/19/07 04:37	1.0		
013	291a013	MS	QC411046	S	Soil	130661	10/19/07 05:05	1.0		
014	291a014	MSD	QC411047	S	Soil	130661	10/19/07 05:33	1.0		
015	291a015	SAMPLE	198325-012		Soil	130661	10/19/07 06:01	1.0		
016	291a016	X	IB				10/19/07 06:29	1.0		
017	291a017	X	CMARKER				10/19/07 06:57	1.0	1	
018	291a018	CCV	DSL_250				10/19/07 07:26	1.0	5	
019	291a019	CCV	MO_500				10/19/07 07:54	1.0	3	
020	291a020	X	CCV				10/19/07 08:22	1.0	4	
021	291a021	CCV	HYFL_1250				10/19/07 09:32	1.0	4	1:BUNKC:12-40=5100
022	291a022	MS	QC411046	S	Soil	130661	10/19/07 10:08	1.0		
023	291a023	MSD	QC411047	S	Soil	130661	10/19/07 10:36	1.0		
024	291a024	SAMPLE	198325-012		Soil	130661	10/19/07 11:04	1.0		2:BUNKC:12-40=5200
025	291a025	SAMPLE	198351-008		Soil	130687	10/19/07 11:41	10.0		
026	291a026	SAMPLE	198351-005		Soil	130687	10/19/07 12:09	10.0		
027	291a027	SAMPLE	198351-010		Soil	130687	10/19/07 12:37	10.0		
028	291a028	SAMPLE	198351-013		Soil	130687	10/19/07 13:05	10.0		
029	291a029	X	IB				10/19/07 13:33	1.0		
030	291a030	SAMPLE	198351-021		Soil	130687	10/19/07 14:01	20.0		
031	291a031	SAMPLE	198351-028		Soil	130687	10/19/07 14:29	10.0		
032	291a032	X	IB				10/19/07 14:56	1.0		
033	291a033	SAMPLE	198351-019		Soil	130687	10/19/07 15:25	1.0		
034	291a034	CCV	DSL_1000				10/19/07 15:53	1.0	6	
035	291a035	CCV	MO_500				10/19/07 16:21	1.0	3	
036	291a036	CCV	JET_250				10/19/07 16:49	1.0	7	
037	291a037	SAMPLE	198294-015	S	Water	130672	10/19/07 17:20	1.0		
038	291a038	SAMPLE	198294-004	S	Water	130672	10/19/07 17:48	1.0		
039	291a039	SAMPLE	198282-004	S	Water	130672	10/19/07 18:16	1.0		
040	291a040	MSS	198282-001	S	Water	130672	10/19/07 18:44	1.0		
041	291a041	X	IB				10/19/07 19:12	1.0		
042	291a042	MS	QC411097	S	Water	130672	10/19/07 19:40	1.0		
043	291a043	MSD	QC411098	S	Water	130672	10/19/07 20:07	1.0		
044	291a044	BLANK	QC410935	S	Water	130633	10/19/07 20:35	1.0		
045	291a045	SAMPLE	198263-015	S	Water	130633	10/19/07 21:04	1.0		
046	291a046	SAMPLE	198263-017	S	Water	130633	10/19/07 21:31	1.0		
047	291a047	X	IB				10/19/07 21:59	1.0		
048	291a048	SAMPLE	198241-001	S	Water	130633	10/19/07 22:27	1.0		
049	291a049	X	CMARKER				10/19/07 22:55	1.0	1	
050	291a050	CCV	DSL_500				10/19/07 23:23	1.0	2	
051	291a051	CCV	MO_500				10/19/07 23:51	1.0	3	
052	291a052	CCV	JET_250				10/20/07 00:18	1.0	7	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117420451

Instrument : GC11A
Method : EPA 8015B

Begun : 10/18/07 23:31
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	291a053	X	CCV				10/20/07 00:46	1.0	2	
054	291a054	X	CCV				10/20/07 01:14	1.0	3	
055	291a055	X	CCV				10/20/07 01:42	1.0	7	
056	291a056	SAMPLE	198379-001	S	Soil	130710	10/20/07 02:09	1.0		
057	291a057	SAMPLE	198379-002	S	Soil	130710	10/20/07 02:37	1.0		
058	291a058	SAMPLE	198379-003	S	Soil	130710	10/20/07 03:05	1.0		
059	291a059	SAMPLE	198379-004	S	Soil	130710	10/20/07 03:33	1.0		
060	291a060	SAMPLE	198379-006	S	Soil	130710	10/20/07 04:01	1.0		
061	291a061	SAMPLE	198475-009	S	Soil	130710	10/20/07 04:29	2.0		
062	291a062	X	IB				10/20/07 04:57	1.0		
063	291a063	SAMPLE	198379-009	S	Soil	130710	10/20/07 05:26	1.0		
064	291a064	SAMPLE	198379-011	S	Soil	130710	10/20/07 05:54	1.0		
065	291a065	SAMPLE	198379-012	S	Soil	130710	10/20/07 06:22	1.0		
066	291a066	SAMPLE	198379-013	S	Soil	130710	10/20/07 06:50	1.0		
067	291a067	CCV	DSL_500				10/20/07 07:18	1.0	2	
068	291a068	CCV	MO_500				10/20/07 07:46	1.0	3	
069	291a069	X	CCV				10/20/07 08:14	1.0	2	
070	291a070	X	CCV				10/20/07 08:42	1.0	3	
071	291a071	SAMPLE	198379-014	S	Soil	130710	10/20/07 09:10	1.0		
072	291a072	SAMPLE	198379-015	S	Soil	130710	10/20/07 09:39	1.0		
073	291a073	SAMPLE	198380-002	S	Soil	130710	10/20/07 10:07	1.0		
074	291a074	SAMPLE	198475-010	S	Soil	130710	10/20/07 10:36	1.0		
075	291a075	X	IB				10/20/07 11:04	1.0		
076	291a076	SAMPLE	198379-010	S	Soil	130710	10/20/07 11:32	1.0		
077	291a077	X	CMARKER				10/20/07 12:00	1.0	1	
078	291a078	CCV	DSL_500				10/20/07 12:27	1.0	2	
079	291a079	CCV	MO_500				10/20/07 12:55	1.0	3	
080	291a080	X	CCV				10/20/07 13:23	1.0	7	
081	291a081	BS	QC411408	S	Miscell.	130749	10/20/07 13:51	1.0		
082	291a082	BSD	QC411409	S	Miscell.	130749	10/20/07 14:19	1.0		
083	291a083	BLANK	QC411407	S	Miscell.	130749	10/20/07 14:47	1.0		
084	291a084	SAMPLE	198425-001	S	Miscell.	130749	10/20/07 15:15	1.0		
085	291a085	BLANK	QC411313	S	Soil	130725	10/20/07 15:43	1.0		
086	291a086	SAMPLE	198290-001	S	Water	130724	10/20/07 16:11	1.0		
087	291a087	SAMPLE	198290-002	S	Water	130724	10/20/07 16:39	1.0		
088	291a088	SAMPLE	198290-004	S	Water	130724	10/20/07 17:07	1.0		
089	291a089	SAMPLE	198290-003	S	Water	130724	10/20/07 17:35	1.0		11:BUNKC:12-40=60000
090	291a090	X	IB				10/20/07 18:03	1.0		
091	291a091	SAMPLE	198290-005	S	Water	130724	10/20/07 18:31	1.0		
092	291a092	CCV	DSL_1000				10/20/07 18:59	1.0	6	
093	291a093	CCV	MO_500				10/20/07 19:27	1.0	3	
094	291a094	X	CCV				10/20/07 19:54	1.0	6	
095	291a095	X	CCV				10/20/07 20:22	1.0	3	
096	291a096	X	CMARKER				10/20/07 20:50	1.0	1	

Standards used: 1=S7307 2=S6808 3=S7310 4=S7279 5=S6807 6=S6809 7=S7426

: 00074

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117428487

Instrument : GC11A
Method : EPA 8015B

Begun : 10/24/07 13:27
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	297a001	X	IB				10/24/07 13:27	1.0	
002	297a002	CMARKER	C10-C50				10/24/07 13:55	1.0	1
003	297a003	CCV	DSL_500				10/24/07 14:23	1.0	2
004	297a004	CCV	MO_500				10/24/07 14:51	1.0	3
005	297a005	CCV	JET_250				10/24/07 15:19	1.0	4
006	297a006	CCV	JP5_250				10/24/07 15:47	1.0	5
007	297a007	X	IB				10/24/07 18:36	1.0	
008	297a008	BLANK	QC411863	S	Water	130857	10/24/07 19:04	1.0	
009	297a009	SAMPLE	198456-004	S	Water	130857	10/24/07 19:32	1.0	
010	297a010	SAMPLE	198456-005	S	Water	130857	10/24/07 20:00	1.0	
011	297a011	SAMPLE	198456-006	S	Water	130857	10/24/07 20:28	1.0	
012	297a012	SAMPLE	198494-001	S	Water	130857	10/24/07 20:55	1.0	
013	297a013	SAMPLE	198494-002	S	Water	130857	10/24/07 21:23	1.0	
014	297a014	SAMPLE	198494-003	S	Water	130857	10/24/07 21:51	1.0	
015	297a015	SAMPLE	198494-004	S	Water	130857	10/24/07 22:19	1.0	
016	297a016	SAMPLE	198494-005	S	Water	130857	10/24/07 22:47	1.0	
017	297a017	X	IB				10/24/07 23:15	1.0	
018	297a018	SAMPLE	198502-001	S	Water	130857	10/24/07 23:44	1.0	
019	297a019	CCV	DSL_250				10/25/07 00:12	1.0	6
020	297a020	CCV	MO_500				10/25/07 00:40	1.0	3
021	297a021	CCV	JET_250				10/25/07 01:07	1.0	4
022	297a022	CCV	JP5_250				10/25/07 01:35	1.0	5
023	297a023	X	CCV				10/25/07 02:03	1.0	6
024	297a024	X	CCV				10/25/07 02:31	1.0	3
025	297a025	X	CCV				10/25/07 02:59	1.0	4
026	297a026	X	CCV				10/25/07 03:27	1.0	5
027	297a027	SAMPLE	198560-001	S	Water	130857	10/25/07 03:54	1.0	
028	297a028	SAMPLE	198560-002		Water	130857	10/25/07 04:22	1.0	
029	297a029	MSS	198326-020	S	Soil	130878	10/25/07 04:50	1.0	
030	297a030	MS	QC411955	S	Soil	130878	10/25/07 05:18	5.0	
031	297a031	MSD	QC411956	S	Soil	130878	10/25/07 05:46	5.0	
032	297a032	X	IB				10/25/07 06:15	1.0	
033	297a033	SAMPLE	198326-018	S	Soil	130878	10/25/07 06:43	1.0	
034	297a034	X	CMARKER				10/25/07 07:11	1.0	1
035	297a035	CCV	DSL_1000				10/25/07 07:39	1.0	7
036	297a036	CCV	MO_500				10/25/07 08:07	1.0	3
037	297a037	BS	QC411864	S	Water	130857	10/25/07 08:36	1.0	
038	297a038	BSD	QC411865	S	Water	130857	10/25/07 09:04	1.0	
039	297a039	SAMPLE	198326-027	S	Soil	130878	10/25/07 09:32	50.0	
040	297a040	CCV	DSL_500				10/25/07 10:00	1.0	2
041	297a041	CCV	MO_500				10/25/07 10:29	1.0	3
042	297a042	LCS	QC412020	S	Water	130895	10/25/07 11:58	1.0	
043	297a043	SAMPLE	198483-007	S	Water	130895	10/25/07 12:26	1.0	
044	297a044	SAMPLE	198559-001	S	Water	130895	10/25/07 12:54	1.0	
045	297a045	SAMPLE	198335-001		Water	130895	10/25/07 13:22	1.0	

Standards used: 1=S7307 2=S6808 3=S7310 4=S7426 5=S6929 6=S6807 7=S6809

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177330472

Instrument : GC17A
Method : EPA 8015B

Begun : 08/17/07 11:52
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	229a001	X	PRIMER			08/17/07 11:52	1.0	
002	229a002	X	IB			08/17/07 12:20	1.0	
003	229a003	CMARKER	C10-C50			08/17/07 12:47	1.0	1
004	229a004	IB	CALIB			08/17/07 13:14	1.0	
005	229a005	ICAL	DSL_10			08/17/07 13:42	1.0	2
006	229a006	ICAL	DSL_100			08/17/07 14:09	1.0	3
007	229a007	ICAL	DSL_500			08/17/07 14:37	1.0	4
008	229a008	ICAL	DSL_1000			08/17/07 15:04	1.0	5
009	229a009	ICAL	DSL_5000			08/17/07 15:31	1.0	6
010	229a010	ICAL	DSL_7500			08/17/07 15:59	1.0	7
011	229a011	IB	CALIB			08/17/07 16:26	1.0	
012	229a012	ICV	DSL_500			08/17/07 16:54	1.0	8
013	229a013	X	ICV			08/17/07 17:28	1.0	8
014	229a014	IB	CALIB			08/17/07 17:56	1.0	
015	229a015	ICAL	MO_50			08/17/07 18:23	1.0	9
016	229a016	ICAL	MO_250			08/17/07 18:51	1.0	10
017	229a017	ICAL	MO_500			08/17/07 19:18	1.0	11
018	229a018	ICAL	MO_1000			08/17/07 19:45	1.0	12
019	229a019	ICAL	MO_5000			08/17/07 20:13	1.0	13
020	229a020	ICAL	MO_7500			08/17/07 20:40	1.0	14
021	229a021	IB	CALIB			08/17/07 21:08	1.0	

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/22/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	262a001	X	PRIMER				09/19/07 08:51	1.0		
002	262a002	X	IB				09/19/07 09:18	1.0		
003	262a003	XCMARKER	C10-C50				09/19/07 09:46	1.0	1	
005	262a005	X	IB				09/19/07 11:09	1.0		
006	262a006	XCMARKER	C10-C50				09/19/07 11:36	1.0	1	
007	262a007	CCV	DSL_500				09/19/07 12:04	1.0	2	
008	262a008	CCV	MO_500				09/19/07 12:31	1.0	3	
009	262a009	CCV	OTP_50				09/19/07 12:58	1.0	4	
010	262a010	SAMPLE	197670-001		Soil	129574	09/19/07 13:26	1.0		
011	262a011	SAMPLE	197670-002		Soil	129574	09/19/07 13:54	1.0		
012	262a012	SAMPLE	197670-003		Soil	129574	09/19/07 14:21	1.0		
013	262a013	SAMPLE	197670-004		Soil	129574	09/19/07 14:48	1.0		
014	262a014	SAMPLE	197670-005		Soil	129574	09/19/07 15:16	1.0		
015	262a015	SAMPLE	197670-006		Soil	129574	09/19/07 15:44	1.0		
016	262a016	SAMPLE	197670-007		Soil	129574	09/19/07 16:11	1.0		
017	262a017	SAMPLE	197670-008		Soil	129574	09/19/07 16:38	1.0		
018	262a018	SAMPLE	197670-009		Soil	129574	09/19/07 17:06	1.0		
019	262a019	SAMPLE	197670-010		Soil	129574	09/19/07 17:33	1.0		
020	262a020	CCV	DSL_1000				09/19/07 18:00	1.0	5	
021	262a021	CCV	MO_500				09/19/07 18:28	1.0	3	
022	262a022	CCV	DSL_1000				09/19/07 18:55	1.0	5	
023	262a023	IB	CALIB				09/19/07 19:23	1.0		
024	262a024	ICAL	HEX_5				09/19/07 19:51	1.0	6	
025	262a025	ICAL	HEX_10				09/19/07 20:18	1.0	7	
026	262a026	ICAL	HEX_25				09/19/07 20:46	1.0	8	
027	262a027	ICAL	HEX_50				09/19/07 21:13	1.0	9	
028	262a028	ICAL	HEX_100				09/19/07 21:41	1.0	10	
029	262a029	X	IB				09/19/07 22:08	1.0		
030	262a030	X	CMARKER				09/19/07 22:36	1.0	1	
031	262a031	CCV	DSL_250				09/19/07 23:03	1.0	11	
032	262a032	CCV	MO_500				09/19/07 23:31	1.0	3	
033	262a033	X	IB				09/20/07 00:02	1.0		
034	262a034	X	TANKCHK				09/20/07 00:29	1.0		
035	262a035	X	TANKCHK				09/20/07 00:56	1.0		
036	262a036	SAMPLE	197624-001		Water	129615	09/20/07 01:24	1.0		
037	262a037	XCMARKER	C10-C50				09/20/07 01:51	1.0	1	
038	262a038	CCV	DSL_500				09/20/07 02:18	1.0	2	
039	262a039	CCV	MO_500				09/20/07 02:46	1.0	3	
040	262a040	X	CCV				09/20/07 03:13	1.0	2	
041	262a041	X	CCV				09/20/07 03:41	1.0	3	
042	262a042	X	IB				09/20/07 08:18	1.0		
043	262a043	X	IB				09/20/07 08:45	1.0		
044	262a044	SAMPLE	197668-024	S	Soil	129593	09/20/07 09:13	10.0		
045	262a045	LCS	QC406929	S	Soil	129661	09/20/07 09:40	1.0		
046	262a046	BLANK	QC406928	S	Soil	129661	09/20/07 10:08	1.0		
047	262a047	SAMPLE	197557-001	S	Soil	129661	09/20/07 10:36	1.0		
048	262a048	SAMPLE	197557-019	S	Soil	129661	09/20/07 11:07	1.0		2:BUNKC:12-40=6200
049	262a049	X	IB				09/20/07 11:34	1.0		
050	262a050	SAMPLE	197557-015	S	Soil	129661	09/20/07 12:02	1.0		
051	262a051	CCV	DSL_1000				09/20/07 12:29	1.0	5	
052	262a052	X					09/20/07 12:57	1.0	3	
053	262a053	CCV	MO_500				09/20/07 13:26	1.0	3	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
054	262a054	SAMPLE	197557-017	S	Soil	129532	09/20/07 14:25	1.0		
055	262a055	CCV	DSL_250				09/20/07 14:55	1.0	11	
056	262a056	CCV	MO_500				09/20/07 15:23	1.0	3	
057	262a057	CCV	DSL_250				09/20/07 15:53	1.0	11	
058	262a058	X	IB				09/21/07 01:38	1.0		
059	262a059	X	CMARKER				09/21/07 02:06	1.0	1	
060	262a060	IB	CALIB				09/21/07 02:33	1.0		
061	262a061	ICAL	DSL_10				09/21/07 03:01	1.0	12	
062	262a062	ICAL	DSL_100				09/21/07 03:28	1.0	13	
063	262a063	ICAL	DSL_500				09/21/07 03:55	1.0	14	
064	262a064	ICAL	DSL_1000				09/21/07 04:23	1.0	15	
065	262a065	ICAL	DSL_5000				09/21/07 04:51	1.0	16	
066	262a066	ICAL	DSL_7500				09/21/07 05:18	1.0	17	
067	262a067	IB	CALIB				09/21/07 05:46	1.0		
068	262a068	ICV	DSL_500				09/21/07 06:13	1.0	18	
069	262a069	X	ICV				09/21/07 06:41	1.0	19	

Standards used: 1=S6952 2=S6808 3=S6790 4=S6922 5=S6809 6=S7036 7=S7037 8=S7038 9=S7039 10=S7040 11=S6807 12=S6612 13=S6613 14=S6614 15=S6615 16=S6611 17=S6616 18=S6617 19=S56617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177420073

Instrument : GC17A
Method : EPA 8015B

Begun : 10/18/07 17:13
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	291a001	X	IB				10/18/07 17:13	1.0		
002	291a002	X	CMARKER				10/18/07 17:40	1.0	1	
003	291a003	CCV	DSL_500				10/18/07 18:08	1.0	2	
004	291a004	CCV	MO_500				10/18/07 18:36	1.0	3	
005	291a005	CCV	BUNK_1250				10/18/07 19:13	1.0	4	
006	291a006	SAMPLE	198381-001		Soil	130661	10/18/07 19:40	1.0		
007	291a007	SAMPLE	198325-011		Soil	130661	10/18/07 20:08	1.0		
008	291a008	SAMPLE	198381-002		Soil	130661	10/18/07 20:35	1.0		
009	291a009	SAMPLE	198381-003		Soil	130661	10/18/07 21:03	50.0		2:BUNKC:12-40=8500
010	291a010	SAMPLE	198381-004		Soil	130661	10/18/07 21:30	20.0		2:BUNKC:12-40=6900
011	291a011	X	IB				10/18/07 21:58	1.0		
012	291a012	SAMPLE	198325-010		Soil	130661	10/18/07 22:25	1.0		
013	291a013	SAMPLE	198157-012	S	Soil	130661	10/18/07 22:52	1.0		1:BUNKC:12-40=5100
014	291a014	SAMPLE	198381-005		Soil	130661	10/18/07 23:20	20.0		
015	291a015	SAMPLE	198381-006		Soil	130661	10/18/07 23:47	1.0		
016	291a016	X	IB				10/19/07 00:15	1.0		
017	291a017	SAMPLE	198350-001	S	Water	130633	10/19/07 00:42	1.0		
018	291a018	CCV	DSL_250				10/19/07 01:10	1.0	5	
019	291a019	CCV	MO_500				10/19/07 01:37	1.0	3	
020	291a020	CCV	BUNK_1250				10/19/07 02:05	1.0	4	
021	291a021	X	CCV				10/19/07 02:32	1.0	5	
022	291a022	X	CCV				10/19/07 03:00	1.0	3	
023	291a023	X	CCV				10/19/07 03:27	1.0	4	
024	291a024	SAMPLE	198351-003		Soil	130687	10/19/07 03:54	1.0		
025	291a025	SAMPLE	198351-005		Soil	130687	10/19/07 04:22	1.0		13:BUNKC:12-40=45000
026	291a026	SAMPLE	198351-006		Soil	130687	10/19/07 04:49	1.0		
027	291a027	SAMPLE	198351-008		Soil	130687	10/19/07 05:17	1.0		13:BUNKC:12-40=30000
028	291a028	SAMPLE	198351-009		Soil	130687	10/19/07 05:44	1.0		
029	291a029	SAMPLE	198351-010		Soil	130687	10/19/07 06:11	1.0		13:BUNKC:12-40=44000
030	291a030	SAMPLE	198351-012		Soil	130687	10/19/07 06:39	1.0		
031	291a031	SAMPLE	198351-013		Soil	130687	10/19/07 07:06	1.0		13:BUNKC:12-40=56000
032	291a032	SAMPLE	198351-015		Soil	130687	10/19/07 07:34	1.0		13:BUNKC:12-40=90000
033	291a033	X	IB				10/19/07 08:02	1.0		
034	291a034	SAMPLE	198351-016		Soil	130687	10/19/07 08:29	1.0		
035	291a035	X	CMARKER				10/19/07 08:57	1.0	1	
036	291a036	CCV	DSL_1000				10/19/07 09:25	1.0	6	
037	291a037	CCV	MO_500				10/19/07 09:52	1.0	3	
038	291a038	X	CCV				10/19/07 10:20	1.0	6	
039	291a039	MSS	198351-031		Soil	130687	10/19/07 10:47	10.0		
040	291a040	SAMPLE	198339-001	S	Water	130672	10/19/07 11:15	1.0		
041	291a041	SAMPLE	198339-002	S	Water	130672	10/19/07 11:42	1.0		
042	291a042	SAMPLE	198339-003	S	Water	130672	10/19/07 12:09	1.0		
043	291a043	SAMPLE	198339-007	S	Water	130672	10/19/07 12:37	1.0		
044	291a044	X	IB				10/19/07 13:22	1.0		
045	291a045	SAMPLE	198266-010		Water	130584	10/19/07 13:49	1.0		
046	291a046	SAMPLE	198266-009		Water	130584	10/19/07 14:16	1.0		
047	291a047	SAMPLE	198351-030		Soil	130687	10/19/07 14:44	1.0		
048	291a048	SAMPLE	198351-024		Soil	130687	10/19/07 15:11	1.0		
049	291a049	SAMPLE	198351-022		Soil	130687	10/19/07 15:39	1.0		
050	291a050	CCV	DSL_500				10/19/07 16:06	1.0	2	
051	291a051	CCV	MO_500				10/19/07 16:34	1.0	3	
052	291a052	CCV	JP5_250				10/19/07 17:02	1.0	7	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177420073

Instrument : GC17A
Method : EPA 8015B

Begun : 10/18/07 17:13
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	291a053	CCV	BUNK_1250				10/19/07 17:29	1.0	4
054	291a054	SAMPLE	198080-001		Water	130435	10/19/07 17:57	1.0	
055	291a055	MSS	198077-001		Water	130435	10/19/07 18:24	1.0	
056	291a056	BLANK	QC411245		Soil	130710	10/19/07 18:52	1.0	
057	291a057	SAMPLE	198351-002		Soil	130710	10/19/07 19:20	1.0	
058	291a058	SAMPLE	198364-001		Soil	130710	10/19/07 19:48	3.0	
059	291a059	X	IB				10/19/07 20:15	1.0	
060	291a060	BLANK	QC411245	S	Soil	130710	10/19/07 20:42	1.0	
061	291a061	LCS	QC411246	S	Soil	130710	10/19/07 21:10	1.0	
062	291a062	MSS	198379-005	S	Soil	130710	10/19/07 21:37	1.0	
063	291a063	MS	QC411247	S	Soil	130710	10/19/07 22:05	1.0	
064	291a064	MSD	QC411248	S	Soil	130710	10/19/07 22:32	1.0	
065	291a065	X	IB				10/20/07 08:55	1.0	
066	291a066	X	CMARKER				10/20/07 09:22	1.0	1
067	291a067	CCV	DSL_250				10/20/07 09:50	1.0	5
068	291a068	CCV	MO_500				10/20/07 10:17	1.0	3
069	291a069	CCV	JP5_250				10/20/07 10:45	1.0	7
070	291a070	CCV	BUNK_1250				10/20/07 11:12	1.0	4

Standards used: 1=S6952 2=S6808 3=S7310 4=S7350 5=S6807 6=S6809 7=S6929

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227408183

Instrument : GC14B
Method : EPA 8015B

Begun : 10/10/07 11:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	283_001	IB	CALIB			10/10/07 11:03	1.0	
002	283_002	XCMARKER	C8-C50			10/10/07 11:32	1.0	1
003	283_003	ICAL	DSL_10			10/10/07 12:00	1.0	2
004	283_004	ICAL	DSL_100			10/10/07 12:29	1.0	3
005	283_005	ICAL	DSL_500			10/10/07 12:58	1.0	4
006	283_006	ICAL	DSL_1000			10/10/07 13:27	1.0	5
007	283_007	ICAL	DSL_5000			10/10/07 13:56	1.0	6
008	283_008	ICAL	DSL_7500			10/10/07 14:25	1.0	7
009	283_009	IB	CALIB			10/10/07 14:54	1.0	
010	283_010	ICV	DSL_500			10/10/07 15:23	1.0	8
011	283_011	IB	CALIB			10/10/07 15:51	1.0	
012	283_012	ICAL	MO_50			10/10/07 16:20	1.0	9
013	283_013	ICAL	MO_250			10/10/07 16:48	1.0	10
014	283_014	ICAL	MO_500			10/10/07 17:16	1.0	11
015	283_015	ICAL	MO_1000			10/10/07 17:44	1.0	12
016	283_016	XICAL	MO_5000			10/10/07 18:13	1.0	13
017	283_017	XICAL	MO_7500			10/10/07 18:41	1.0	14
018	283_018	IB	CALIB			10/10/07 19:09	1.0	
019	283_019	ICAL	HEX_5			10/10/07 19:38	1.0	15
020	283_020	ICAL	HEX_10			10/10/07 20:06	1.0	16
021	283_021	ICAL	HEX_25			10/10/07 20:34	1.0	17
022	283_022	ICAL	HEX_50			10/10/07 21:03	1.0	18
023	283_023	ICAL	HEX_100			10/10/07 21:31	1.0	19
024	283_024	ICAL	HEX_200			10/10/07 22:00	1.0	20
025	283_025	IB	CALIB			10/10/07 22:28	1.0	
026	283_026	ICAL	OTP_5			10/10/07 22:57	1.0	21
027	283_027	ICAL	OTP_10			10/10/07 23:25	1.0	22
028	283_028	ICAL	OTP_25			10/10/07 23:54	1.0	23
029	283_029	ICAL	OTP_50			10/11/07 00:22	1.0	24
030	283_030	ICAL	OTP_100			10/11/07 00:51	1.0	25
031	283_031	IB	CALIB			10/11/07 01:19	1.0	
032	283_032	ICAL	JETA_10			10/11/07 01:48	1.0	26
033	283_033	ICAL	JETA_100			10/11/07 02:16	1.0	27
034	283_034	ICAL	JETA_500			10/11/07 02:45	1.0	28
035	283_035	ICAL	JETA_1000			10/11/07 03:13	1.0	29
036	283_036	ICAL	JETA_2000			10/11/07 03:41	1.0	30
037	283_037	IB	CALIB			10/11/07 04:10	1.0	
038	283_038	X	IB			10/11/07 09:38	1.0	
039	283_039	IB	CALIB			10/11/07 10:06	1.0	
040	283_040	ICAL	MO_5000			10/11/07 10:35	1.0	13
041	283_041	XICAL	MO_7500			10/11/07 11:03	1.0	14
042	283_042	IB	CALIB			10/11/07 11:32	1.0	

Analyst: JDG Date: 10/11/07 Reviewer: LH Date: 10/11/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847 15=S7036 16=S7037 17=S7038 18=S7039 19=S7040 20=S7041 21=S6397 22=S6398 23=S6399 24=S6400 25=S6401 26=S6528 27=S6529 28=S6530 29=S6531 30=S6532

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227427384

Instrument : GC14B
Method : EPA 8015B

Begun : 10/23/07 19:04
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	296_001	X	PRIMER				10/23/07 19:04	1.0		
002	296_002	X	IB				10/23/07 19:32	1.0		
003	296_003	CMARKER	C10-C50				10/23/07 20:00	1.0	1	
004	296_004	CCV	DSL_500				10/23/07 20:28	1.0	2	
005	296_005	CCV	MO_500				10/23/07 22:29	1.0	3	
006	296_006	CCV	JET_250				10/23/07 22:57	1.0	4	
007	296_007	CCV	HYFL_1250				10/23/07 23:26	1.0	5	
008	296_008	BLANK	QC411673	S	Water	130815	10/23/07 23:54	1.0		
009	296_009	SAMPLE	198270-001	S	Water	130815	10/24/07 00:23	1.0		
010	296_010	SAMPLE	198303-002	S	Water	130815	10/24/07 00:51	1.0		
011	296_011	SAMPLE	198418-007	S	Water	130815	10/24/07 01:19	1.0		
012	296_012	SAMPLE	198434-005	S	Water	130815	10/24/07 01:48	1.0		
013	296_013	SAMPLE	198290-001	S	Water	130815	10/24/07 02:17	1.0		
014	296_014	SAMPLE	198290-002	S	Water	130815	10/24/07 02:45	1.0		
015	296_015	SAMPLE	198290-004	S	Water	130815	10/24/07 03:14	1.0		
016	296_016	SAMPLE	198290-005	S	Water	130815	10/24/07 03:42	1.0		
017	296_017	X	IB				10/24/07 04:11	1.0		
018	296_018	SAMPLE	198290-007	S	Water	130724	10/24/07 04:39	1.0		
019	296_019	X	CMARKER				10/24/07 05:08	1.0	1	
020	296_020	CCV	DSL_250				10/24/07 05:36	1.0	6	
021	296_021	CCV	MO_500				10/24/07 06:05	1.0	3	
022	296_022	CCV	JET_250				10/24/07 06:34	1.0	4	
023	296_023	CCV	HYFL_1250				10/24/07 07:02	1.0	5	
024	296_024	BS	QC411671		Water	130814	10/24/07 07:52	1.0		
025	296_025	BSD	QC411672		Water	130814	10/24/07 08:20	1.0		
026	296_026	SAMPLE	198297-002		Water	130814	10/24/07 08:49	1.0		
027	296_027	SAMPLE	198297-004		Water	130814	10/24/07 09:17	1.0		
028	296_028	SAMPLE	198297-003		Water	130814	10/24/07 09:46	1.0		
029	296_029	SAMPLE	198297-001		Water	130814	10/24/07 10:15	1.0		
030	296_030	CCV	DSL_1000				10/24/07 10:44	1.0	7	
031	296_031	CCV	MO_500				10/24/07 11:12	1.0	3	
032	296_032	X	IB				10/24/07 14:58	1.0		
033	296_033	SAMPLE	198326-014	S	Soil	130866	10/24/07 15:26	1.0		
034	296_034	SAMPLE	198326-009	S	Soil	130866	10/24/07 15:55	1.0		
035	296_035	SAMPLE	198326-010	S	Soil	130866	10/24/07 16:23	1.0		
036	296_036	SAMPLE	198326-017	S	Soil	130866	10/24/07 16:51	1.0		
037	296_037	SAMPLE	198326-011	S	Soil	130866	10/24/07 17:20	1.0		2:BUNKC:12-50=7500
038	296_038	X	IB				10/24/07 17:48	1.0		
039	296_039	BS	QC411864	S	Water	130857	10/24/07 18:45	1.0		
040	296_040	BSD	QC411865	S	Water	130857	10/24/07 19:13	1.0		
041	296_041	BLANK	QC411863		Water	130857	10/24/07 19:41	1.0		
042	296_042	SAMPLE	198377-001	S	Water	130857	10/24/07 20:10	1.0		
043	296_043	X	IB				10/24/07 20:38	1.0		
044	296_044	SAMPLE	198377-002	S	Water	130857	10/24/07 21:07	1.0		
045	296_045	X	CMARKER				10/24/07 21:35	1.0	1	
046	296_046	CCV	DSL_500				10/24/07 22:03	1.0	2	
047	296_047	CCV	MO_500				10/24/07 22:32	1.0	3	
048	296_048	X	CCV				10/24/07 23:00	1.0	2	
049	296_049	X	CCV				10/24/07 23:29	1.0	3	
050	296_050	LCS	QC411954	S	Soil	130878	10/24/07 23:57	1.0		
051	296_051	BLANK	QC411953	S	Soil	130878	10/25/07 00:26	1.0		
052	296_052	BLANK	QC411953		Soil	130878	10/25/07 00:54	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227427384

Instrument : GC14B
Method : EPA 8015B

Begun : 10/23/07 19:04
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	296_053	SAMPLE	198586-002		Soil	130878	10/25/07 01:23	1.0	
054	296_054	SAMPLE	198586-001		Soil	130878	10/25/07 01:51	1.0	
055	296_055	X	IB				10/25/07 02:20	1.0	
056	296_056	SAMPLE	198380-001	S	Soil	130878	10/25/07 02:48	1.0	
057	296_057	X	CMARKER				10/25/07 03:17	1.0	1
058	296_058	CCV	DSL_250				10/25/07 03:45	1.0	6
059	296_059	CCV	MO_500				10/25/07 04:14	1.0	3

Standards used: 1=S6952 2=S6808 3=S7310 4=S7426 5=S7279 6=S6807 7=S6809

REPORTING SUMMARY FOR 198380 TEHM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
198380-001	GC14B	10/25/07 02:48	1.0	+	+	+	
198380-002	GC11A	10/20/07 10:07	1.0	+	+	+	
QC411245	GC17A	10/19/07 18:52	1.0				
QC411245	GC17A	10/19/07 20:42	1.0	+	+	+	
QC411246	GC17A	10/19/07 21:10	1.0	+		+	
QC411247	GC17A	10/19/07 22:05	1.0	+		+	
QC411248	GC17A	10/19/07 22:32	1.0	+		+	
QC411953	GC14B	10/25/07 00:26	1.0	+	+	+	
QC411953	GC14B	10/25/07 00:54	1.0				
QC411954	GC14B	10/24/07 23:57	1.0	+		+	
QC411955	GC11A	10/25/07 05:18	5.0	+		+	
QC411955	GC17A	10/25/07 09:49	5.0				
QC411956	GC11A	10/25/07 05:46	5.0	+		+	
QC411956	GC17A	10/25/07 10:17	5.0				

SAMPLE PREPARATION SUMMARY

Batch # : 130710
Started By : SFL
Method : SHAKER TABLE
Spike #1 ID : S7329
Prep Date : 19-OCT-2007
SOP Version : TEH1_rv9
Spike #2 ID : S7330
Analysis : TEH
Finished By : MDW
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198351-002		Soil	50.48	5	1	0.09905		1				TEHM	
198364-001		Soil	50.39	5	1	0.09923		1				TEH	
198379-001		Soil	50.26	5	1	0.09948		1			3630C	TEHM	
198379-002		Soil	50.11	5	1	0.09978		1			3630C	TEHM	
198379-003		Soil	50.45	5	1	0.09911		1			3630C	TEHM	
198379-004		Soil	50.29	5	1	0.09942		1			3630C	TEHM	
198379-005		Soil	50.12	5	1	0.09976		1			3630C	TEHM	mss
198379-006		Soil	50.16	5	1	0.09968		1			3630C	TEHM	
198379-009		Soil	50.39	5	1	0.09923		1			3630C	TEHM	
198379-010		Soil	50.15	5	1	0.0997		1			3630C	TEHM	
198379-011		Soil	50.03	5	1	0.09994		1			3630C	TEHM	
198379-012		Soil	50.21	5	1	0.09958		1			3630C	TEHM	
198379-013		Soil	50.26	5	1	0.09948		1			3630C	TEHM	
198379-014		Soil	50.08	5	1	0.09984		1			3630C	TEHM	
198379-015		Soil	50.06	5	1	0.09988		1			3630C	TEHM	
198380-002		Soil	50.22	5	1	0.09956		1			3630C	TEHM	
198475-009		Soil	50.11	5	1	0.09978		1			3630C	TEHM	
198475-010		Soil	50.09	5	1	0.09982		1			3630C	TEHM	
QC411245	BLANK	Soil	50.36	5	1	0.09929		1			3630C		
QC411246	LCS	Soil	50	5	1	0.1000		1	1		3630C		
QC411247	MS	Soil	50.08	5	1	0.09984		1	1		3630C		
QC411248	MSD	Soil	50.49	5	1	0.09903		1	1		3630C		

Analyst: JDG Date: 10/22/07 Reviewer: LH Date: 10/22/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 31

LIMS Batch No: 10/19/07 OFL 10/19/07 — Extraction Method: ☑ Shaker Table ☐ EPA 3550 Sonication ☐ _____ — Cleanup Method (if necessary): ☑ EPA 3630 Silica Gel ☐ _____

LIMS Analysis TEH

Date Extracted: 10/19/07

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198351-002 A	50.48	5.0		
	198364-001 A	50.39			
	198379-001 A	50.26		X	
	02 A	50.11			
5	03 A	50.45			
	04 A	50.29			
	05 J	50.12			MSS
	06 E	50.16			
	09 B	50.39			
10	10 A	50.15			
	11	50.03			
	12	50.21			
	13	50.26			
	14	50.08			
15	15	50.06			
	198380-002 A	50.22			
	198475-009 comp	50.11			-001A, -002A, 003A, 004A @ 20.0g each
	10 comp	50.09			-005A -006A, -007A, -008A @ 20g each
	MB NC 411245	50.36			
20	LCS 46	50.00			
	MS 47	50.08			198379-005J
	MSD 48	50.49			

~~10/19/07~~

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM 47156727	SFL 10/19/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM 47073734	
1.0 mL of Surrogate solution was added to all samples	573296	
1.0 mL of Matrix Spiking solution was added to all spikes	57330 6	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all — CH_2Cl_2	EM 47110	
Acetone	EM 47156	
Samples were: ☐ sonicated 3 times ☑ placed on shaker table at:	1040	
taken off shaker table at:	1245	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM 47073734	~~10/19/07~~
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department		

10/19/07

Extraction Chemist / Date

Continued from page ____

Continued on page ____

10/19/07

Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: MJL
Cleanup Date: 10/19/07

Benchbook # **BK 2585**
Page 61

	Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
	198374-001	130710	1.0	1.0	
	-002				
	-003				
	-004				
5	-005				MSS
	-006 ~ 10/19/07				
	-~~007~~ 009				
	-010				
	-011				
10	-012				
	-013				
	-014				
	-015				
	198380-002				
15	198475-009				
	↓ -010				
	MB QC 41245				
	LCS 6				
	MS 7				
20	MSD 8				
25					
30					~ 10/19/07

☐ Extracts were cleaned up using C&T assembled ___ g columns
☒ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 4.0 mL CH_2Cl_2
Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
N/A	~ 10/19/07
SP9042	↓
EM47169	↓

~ 10/19/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

10/19/07
Reviewed by / Date

Sample ID	Weight(g)	Analysis	Batch #	Comments
198325-010 A	50.38	TEH		
-011	50.00			
-012	50.20			
-013	50.12			
198317-001 A	50.32	TEHM		
-004	50.33			
-005	50.49			
198322-002 I	50.03			MS
-003 E	50.33			EM46321720
MB	50.44			198322-002 I
LCS	50.00			
MS	50.04			
MSD	50.26			
			KML 10/16/07	
198351-002 A	50.48	TEHM	130710	
-003	50.37			
-005	50.20			
-006	50.23			
-008	50.20			
-009	50.15			
-010	50.15			
-012	50.22			
-013	50.16			
-015	50.03			
-016	50.24			
-018	50.28			
-019	50.20			
-021	50.39			
-022	50.06			
-024	50.11			
-025	50.07			
-028	50.16			
-029	50.11			
-030	50.24			
-031	50.45			MSS
MB	50.00		KML 10/16/07	EM46283703

Continued on Page 70

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page 73

Sample ID	Weight(g)	Analysis	Batch #	Comments
LCS	30.08	8270-SIM		EM462837O3
MS	30.23	↓		198379-005L
MSD	30.28	↓		↓
		KML 10/17/07		
198379-001I	30.17	8270		
198437-001J	30.09	↓		MSS
-003I	30.17			
-005G	30.21			
-007G	30.14			
-009J	30.53			
↓ -011G	30.28			
MB	30.40			EM462837O3
LCS	30.11			↓
MS	30.06			198437-001J
MSD	30.34	↓ KML 10/17/07		↓
198364-001A	50.39	TEH	130710	
198437-001J	50.49	TEHTM		
-003I	50.30	↓		
-005G	50.03			
-007G	50.17			
-009J	50.31			
↓ -011G	50.37	↓		
~~198354~~				KML 10/17
198354-002A	50.20	TEH		MSS
-003	50.34	↓		
-004	50.49			
-006	50.17			
-007	50.41			
-008	50.11			
-012	50.08			
-013	50.21			
-015	50.27			
↓ -016	50.04			
MB	50.44			EM462837O3
LCS	50.02	↓ KML 10/17/07		↓

Continued on Page 75

Read and Understood By

Signed Date Signed Date

Sample ID	Weight(g)	Analysis	Batch #	Comments
MS	50.05	TEH		198354-002A
MSD	50.15	↓		↓
			KML 10/17/07	
198300-002A	50.08	TEHM		
198379-001A	50.26		130710	
-002	50.11			
-003	50.45			
-004	50.29			
-005J	50.12			MSS
-006E	50.16			
-009B	50.39			
-010A	50.15			
-011	50.03			
-012	50.21			
-013	50.26			
-014	50.08			
-015	50.06			
198352-001A	50.08	TEH		
198301-001A	50.29	TEHM		
-002	50.41			
-003	50.12			
MB	50.36		130710	EM47158737
LCS	50.00			↓
MS	50.08			198379-005J
MSD	50.49		↓	↓
			KML 10/18/07	
198475-009	50.11	TEHM	130716	comp 002,002,003,004 @ 20g all Letter A each
-010	50.09		130710	comp 005,006,007,008 @ 20g all Letter A each
198272-001	50.00	↓		comp -011,013,020,022,029,032,038, 198206 040,042,049 all A@10g each
			KML 10/18/07	
198380-001A	50.09	TEHM		
-002	50.22	↓	130710	
			KML 10/18/07	
198380-001A	30.49	8270-SIM		
			KML 10/18/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE PREPARATION SUMMARY

Batch # : 130878
Started By : SFH
Method : SHAKER TABLE
Spike #1 ID : S7176

Prep Date : 24-OCT-2007

Spike #2 ID : S7448

Analysis : TEHM
Finished By : RFW
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198326-018		Soil	50.14	5	1	0.09972		1			3630C	TEHM	
198326-019		Soil	50.37	5	1	0.09927		1			3630C	TEHM	
198326-020		Soil	50.05	5	1	0.0999		1			3630C	TEHM	MSS
198326-021		Soil	50.41	5	1	0.09919		1			3630C	TEHM	
198326-022		Soil	50.07	5	1	0.09986		1			3630C	TEHM	
198326-023		Soil	50.12	5	1	0.09976		1			3630C	TEHM	
198326-024		Soil	50.07	5	1	0.09986		1			3630C	TEHM	
198326-025		Soil	50.34	5	1	0.09932		1			3630C	TEHM	
198326-026		Soil	50.15	5	1	0.0997		1			3630C	TEHM	
198326-027		Soil	50.27	5	1	0.09946		1			3630C	TEHM	
198326-028		Soil	50.39	5	1	0.09923		1			3630C	TEHM	
198326-029		Soil	50.39	5	1	0.09923		1			3630C	TEHM	
198380-001		Soil	50.09	5	1	0.09982		1			3630C	TEHM	
198511-004		Soil	50.38	5	1	0.09925		1			3630C	TEHM	
198511-005		Soil	50.44	5	1	0.09913		1			3630C	TEHM	
198511-006		Soil	50.14	5	1	0.09972		1			3630C	TEHM	
198545-001		Soil	50.03	5	1	0.09994		1			3630C	TEHM	
198545-002		Soil	50.09	5	1	0.09982		1			3630C	TEHM	
198586-001		Soil	50.48	5	1	0.09905		1				TEHM	
198586-002		Soil	50.33	5	1	0.09934		1				TEHM	
QC411953	BLANK	Soil	50.23	5	1	0.09954		1			3630C	TEHM	
QC411954	LCS	Soil	50.22	5	1	0.09956		1	1		3630C	TEHM	
QC411955	MS	Soil	50.13	5	1	0.09974		1	1		3630C	TEHM	Darker than MSS & MSD after initial pour
QC411956	MSD	Soil	50.03	5	1	0.09994		1	1		3630C	TEHM	

Analyst: JDG Date: 10/25/07 Reviewer: LH Date: 10/25/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 39

LIMS Batch No: 130878
LIMS Analysis TEHM
Date Extracted: 10/24/07

Extraction Method:
☑ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198326-018 A	50.14	5.0	X	
	-019	50.37			
	-020	50.05			MSS
	-021	50.41			
5	-022	50.07			
	-023	50.12			
	-024	50.07			
	-025	50.34			
	-026	50.15			
10	-027	50.17			
	-028	50.39			
	-029	50.39			
	198380-001A	50.09			
	198511-004A	50.38			
15	-005	50.44			
	-006	50.14			
	198545-001A	50.03			
	-002	50.09			
	198586-001C	50.48			SFH 10/24/07 no S.g. cleanup
20	-002C	50.33			
	MB QC 411953	50.23		X	
	LCS 4	50.22			
	MS 5	50.13			Darker than MSS & MSD after initial pour.
	MSD 6	50.03			
					SFH 10/24/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM 47158737	SFH 10/24/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM 47073734	
1.0 mL of Surrogate solution was added to all samples	57176B	
1.0 mL of Matrix Spiking solution was added to all spikes	57448B	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM 47158	
Acetone	EM 47156	
Samples were: ☐ sonicated 3 times ☑ placed on shaker table at:	830	
taken off shaker table at:	1045	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM 47073734	RFw 10/24/07
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	HOOD ✓	

10/24/07
Extraction Chemist / Date

Continued from page ____
Continued on page ____

10/24/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: RFW
Cleanup Date: 10/24/07

Benchbook # **BK 2585**
Page 79

	Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
	195326-018	130878	1.0	1.0	
	019				
	020				MSS
	021				
5	022				
	023				
	024				
	025				
	026				
10	027				
	028				
	029				
	198380-001				
	198571-004				
15	005				
	006				
	198545-001				
	002				
	MB QC411953				
20	LCS 4				
	MS 5				
	MSD 6				
25					
30					RFW 10/24/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ___ g columns	NA	RFW 10/24/07
☒ Extracts were cleaned up using 1.0 g cartridges	SP9092	
Extracts were eluted with 4.0 mL CH_2Cl_2	EMY7092	
Concentrated to volumes as noted above	✓	

RFW 10/24/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

RFW 10/24/07
Reviewed by / Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
198326-001A	50.20	EPH/M		MS5
-002	50.20			
-003	50.36			
-004	50.32			
-005	50.27			
-006	50.30			
-007	50.35			
-008	50.03			
-009	50.19			
-010	50.29			
-011	50.25			
-012	50.23			
-013	50.06			
-014	50.11			
-015	50.05			
-016	50.02			
-017	50.25			
-018	50.14		130878	
-019	50.37		↓	
-020	50.34		130878	
-021	50.41			
-022	50.07			
-023	50.12			
-024	50.07			
-025	50.34			
-026	50.15			
-027	50.27			
-028	50.39			
-029	50.34			
MB	50.12			EM47158737
LCS	50.13			↓
MS	50.10			198326-001A
MSD	50.25			↓

KMC 10/22/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page 90

Sample ID	Weight(g)	Analysis	Batch #	Comments
198390-002	30.11	8270-SIM		aliqued 198326-021A
-022	30.30			-022
-023	30.37			-023
-024	30.14			-024
-025	30.42			-025
-026	30.11			-026
-027	30.41			-027
-028	30.16			-028
-029	30.08			-029
MB	30.28			EM47158737
LCS	30.13			↓
MS	30.27			198390-002
MSD	30.06			↓
				KML 10/23/07
198300-002A	50.01	TEHM		
				KR 10/28/07
~~326-020A~~ SFM 10/24/07				
198326-020A	50.05	TEHM	130878	
MB	50.23			EM47158737
LCS	50.22			↓
MS	50.13			198326-020A
MSD	50.03			↓
				SFM 10/24/07
198556-001A	30.17	FCB		DJT 10/24/07
198257-007A	30.09	SIM		
198562-002A	30.07	↓		
				DJT 10/24/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
MS	50.05	TEH		198354-002A
MSD	50.15	↓		↓
		KML 10/17/07		
198300-002A	50.08	TEHM		
198379-001A	50.26			
-002	50.11			
-003	50.45			
-004 ↓	50.29			
-005J	50.12			MSS
-006E	50.16			
-009B	50.39			
-010A	50.15			
-011	50.03			
-012	50.21			
-013	50.26			
-014	50.08			
-015 ↓	50.06	↓		
198352-001A	50.08	TEH		
198301-001A	50.29	TEHM		
-002	50.41			
-003 ↓	50.12			
MB	50.36			EM47,158737
LCS	50.00			↓
MS	50.08			198379-005J
MSD	50.49	↓		↓
		KML 10/18/07		
198475-009	50.11	TEHM		comp 002,002,003,004 @ 20x all Ether A each
-010	50.09	↓		comp 005,006,007,008 @ 20x all Ether A each
198272-001	50.00			comp 198206 010,017,019 all A@10x each
		KML 10/18/07		
198380-001A	50.09	TEHM	130878	
-002 ↓	50.22	↓	130710	
			KML 10/18/07	
198380-001A	30.49	8270-SIM		
		KML 10/18/07		

Read and understood By

Date

Sample ID	Weight (g)	Analysis	Batch #	Comments
MS	30.02	PCB		198534-011A
MSD	30.09	↓		↓
198511-004A	50.38	TEHM	EML 10/22/07	
-005	50.44		1305878	
↓ -006	50.14		↓	
198562-001A	50.20			
198547-002D	50.38			
↓ -005	50.01			
198349-001H	50.32			
198559-002D	50.45			
-003C	50.08			
-004D	50.13			
-005	50.22			
-007	50.40			
↓ -008	50.16			
198533-001A	50.09			
-002	50.26			
-003	50.34			
-004	50.08			
-005	50.26			
-006	50.35			
↓ -007	50.28			MSS EM47158737 ↓ 198533-007A ↓
MB	50.15			
LCS	50.11			
MS	50.05			
MSD	50.07		EML 10/22/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
198559-002 D	30.17	8270		MSS
-003 C	30.08			
-004 D	30.28			
-005	30.34			
-007	30.18			
-008	30.28			
MB	30.02			
LCS	30.04			EM47158737
MS	30.17			198559-002 D
MSD	30.41			
198545-001 A	50.03	TEHM	KAM 10/23/07	
-002	50.09			130978
198586-001 C	50.48			
-002	50.33			
198631-001	30.15	PCB	KAM 10/23/07	comp -001 A-D @25g ea
-002	30.06			-002 A-D @25g ea
198390-001	30.46	8270-SIM	KAM 10/23/07	aliased 198326-001A
-002	30.03			MSS
-003	30.18			-002A
-004	30.31			-003A
-005	30.26			-004A
-006	30.37			-005
-007	30.23			-006
-008	30.17			-007
-009	30.13			-008
-010	30.15			-009
-011	30.12			-010
-012	30.23			-011
-013	30.49			-012
-014	30.24			-013
-015	30.36			-014
-016	30.45			-015
-017	30.35			-016
-018	30.24			-017
-019	30.30			-018
-020	30.38		KAM 10/23/07	-019
				-020

Continued on Page 91

Read and Understood By

Signed Date Signed Date

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065BC400	Diln Fac:	0.8621
Lab ID:	198380-001	Batch#:	130625
Matrix:	Soil	Sampled:	10/15/07
Units:	ug/Kg	Received:	10/15/07
Basis:	dry	Analyzed:	10/17/07

Moisture: 1%

Analyte	Result	RL	MDL
Benzene	ND	4.4	0.62
Toluene	ND	4.4	0.60
Ethylbenzene	ND	4.4	0.46
m,p-Xylenes	ND	4.4	0.90
o-Xylene	ND	4.4	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	107	59-113
1,2-Dichloroethane-d4	113	70-121
Toluene-d8	104	84-138
Bromofluorobenzene	108	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065BC401	Diln Fac:	0.9434
Lab ID:	198380-002	Batch#:	130625
Matrix:	Soil	Sampled:	10/15/07
Units:	ug/Kg	Received:	10/15/07
Basis:	dry	Analyzed:	10/17/07

Moisture: 3%

Analyte	Result	RL	MDL
Benzene	ND	4.9	0.69
Toluene	ND	4.9	0.67
Ethylbenzene	ND	4.9	0.51
m,p-Xylenes	ND	4.9	1.0
o-Xylene	ND	4.9	0.56

Surrogate	%REC	Limits
Dibromofluoromethane	108	59-113
1,2-Dichloroethane-d4	110	70-121
Toluene-d8	101	84-138
Bromofluorobenzene	107	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC410900	Diln Fac:	1.000
Matrix:	Soil	Batch#:	130625
Units:	ug/Kg	Analyzed:	10/17/07

Analyte	Result	RL	MDL
Benzene	ND	5.0	0.71
Toluene	ND	5.0	0.69
Ethylbenzene	ND	5.0	0.52
m,p-Xylenes	ND	5.0	1.0
o-Xylene	ND	5.0	0.58

Surrogate	%REC	Limits
Dibromofluoromethane	102	59-113
1,2-Dichloroethane-d4	103	70-121
Toluene-d8	102	84-138
Bromofluorobenzene	105	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC410899	Diln Fac:	1.000
Matrix:	Soil	Batch#:	130625
Units:	ug/Kg	Analyzed:	10/17/07

Analyte	Spiked	Result	%REC	Limits
Benzene	25.00	29.35	117	65-135
Toluene	25.00	29.02	116	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	101	59-113
1,2-Dichloroethane-d4	110	70-121
Toluene-d8	104	84-138
Bromofluorobenzene	100	59-113

00103

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	130625
MSS Lab ID:	198379-005	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07
Units:	ug/Kg	Analyzed:	10/17/07
Basis:	dry		

Type: MS Moisture: 8%
Lab ID: QC410915 Diln Fac: 0.7813

Analyte	MSS Result	Spiked	Result	%REC	Limits
Benzene	<0.6052	42.46	39.69	93	65-135
Toluene	<0.5821	42.46	39.23	92	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	108	59-113
1,2-Dichloroethane-d4	109	70-121
Toluene-d8	103	84-138
Bromofluorobenzene	104	59-113

Type: MSD Moisture: 8%
Lab ID: QC410916 Diln Fac: 0.8197

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	44.55	44.34	100	65-135	6	35
Toluene	44.55	44.35	100	65-135	7	35

Surrogate	%REC	Limits
Dibromofluoromethane	107	59-113
1,2-Dichloroethane-d4	108	70-121
Toluene-d8	105	84-138
Bromofluorobenzene	107	59-113

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 198380 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457416630006 File : fjg06 Time : 16-OCT-2007 10:30

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	60196	21.63	
75	30% - 60% of mass 95	123067	44.22	
95		278336		
96	5% - 9% of mass 95	17811	6.40	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	204501	73.47	
175	5% - 9% of mass 174	14061	6.88	
176	> 95% and < 101% of mass 174	199189	97.40	
177	5% - 9% of mass 176	13066	6.56	

Analyst: BO Date: 10/17/07 Reviewer: LW Date: 10/18/07

457416630006

CURTIS & TOMPKINS BFB TUNE FOR 198380 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457418080002 File : fjh02 Time : 17-OCT-2007 08:47

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12310	20.33	
75	30% - 60% of mass 95	26816	44.29	
95		60552		
96	5% - 9% of mass 95	4568	7.54	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	41688	68.85	
175	5% - 9% of mass 174	3262	7.82	
176	> 95% and < 101% of mass 174	41616	99.83	
177	5% - 9% of mass 176	2417	5.81	

Analyst: BO Date: 10/17/07 Reviewer: LW Date: 10/18/07

457418080002

CURTIS & TOMPKINS BFB TUNE FOR 198380 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457418080006 File : fjh06 Time : 17-OCT-2007 11:42

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	19676	19.92	
75	30% - 60% of mass 95	44492	45.05	
95		98772		
96	5% - 9% of mass 95	6060	6.14	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	69948	70.82	
175	5% - 9% of mass 174	5802	8.29	
176	> 95% and < 101% of mass 174	68676	98.18	
177	5% - 9% of mass 176	4614	6.72	

Analyst: BO Date: 10/17/07 Reviewer: LW Date: 10/18/07

457418080006

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 MSVOA Soil: EPA 8260B

Inst : MSVOA06
Calnum : 457416630001
Units : ug/L

Name : 826GOX6S
Date : 16-OCT-2007 11:38
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fjg08	457416630008	2.5PPB	16-OCT-2007 11:38	S7417 (200000X), S7296 (200000X), S7444 (1000X)
L2	fjg09	457416630009	5PPB	16-OCT-2007 12:13	S7417 (100000X), S7296 (100000X), S7444 (1000X)
L3	fjg10	457416630010	10PPB	16-OCT-2007 12:48	S7417 (50000X), S7296 (50000X), S7444 (1000X)
L4	fjg11	457416630011	20PPB	16-OCT-2007 13:23	S7417 (25000X), S7296 (25000X), S7444 (1000X)
L5	fjg12	457416630012	50PPB	16-OCT-2007 13:58	S7417 (10000X), S7296 (10000X), S7444 (1000X)
L6	fjg13	457416630013	60PPB	16-OCT-2007 14:32	S7417 (8333X), S7296 (8333X), S7444 (1000X)
L7	fjg14	457416630014	75PPB	16-OCT-2007 15:08	S7417 (6667X), S7296 (6667X), S7444 (1000X)
L8	fjg15	457416630015	100PPB	16-OCT-2007 15:43	S7417 (5000X), S7296 (5000X), S7444 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.7864	1.7414	1.6956	1.8153	1.8885	1.8664	1.7721	AVRG		0.55707		1.7951	4	15	0.05	0.99	
Toluene		1.0385	0.9630	0.8950	1.0133	1.0076	1.0458	0.9678	AVRG		1.00996		0.9901	5	15	0.05	0.99	
Ethylbenzene		2.0278	1.9809	1.8900	2.1217	2.1696	2.1758	2.0348	AVRG		0.48608		2.0573	5	15	0.05	0.99	
m,p-Xylenes	0.8778	0.7218	0.7123	0.6697	0.7097	0.7255	0.7404	0.6670	AVRG		1.37355		0.7280	9	15	0.05	0.99	
o-Xylene		0.7015	0.7144	0.7017	0.7438	0.7388	0.7547	0.7010	AVRG		1.38452		0.7223	3	15	0.05	0.99	
Dibromofluoromethane					0.5998				AVRG		1.66734		0.5998	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.3625				AVRG		2.75834		0.3625	0	15	0.05	0.99	
Toluene-d8					1.0861				AVRG		0.92071		1.0861	0	15	0.05	0.99	
Bromofluorobenzene					1.0385				AVRG		0.96289		1.0385	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Benzene			5.000	0	10.00	-3	20.00	-6	50.00	1	60.00	5	75.00	4	100.0	-1
Toluene			5.000	5	10.00	-3	20.00	-10	50.00	2	60.00	2	75.00	6	100.0	-2
Ethylbenzene			5.000	-1	10.00	-4	20.00	-8	50.00	3	60.00	5	75.00	6	100.0	-1
m,p-Xylenes	5.000	21	10.00	-1	20.00	-2	40.00	-8	100.0	-3	120.0	0	150.0	2	200.0	-8
o-Xylene			5.000	-3	10.00	-1	20.00	-3	50.00	3	60.00	2	75.00	4	100.0	-3
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 10/17/07 Reviewer: LW Date: 10/18/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198380 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Name : 826GOX6S
Calnum : 457416630001 Cal Date : 16-OCT-2007 Type : SOIL

ICV 457418080005 (fjh05 17-OCT-2007) stds: S7229 (10000X), S7051 (10000X), S7444 (1000X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Benzene	1.7951	1.8430	25.00	25.67	ug/L	3	20	
Toluene	0.9901	1.0415	25.00	26.30	ug/L	5	20	
Ethylbenzene	2.0573	2.3375	25.00	28.41	ug/L	14	20	
m,p-Xylenes	0.7280	0.7525	50.00	51.68	ug/L	3	20	
o-Xylene	0.7223	0.7538	25.00	26.09	ug/L	4	20	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : 30PPB IDF : 1.0
Seqnum : 457418080007.1 File : fjh07 Time : 17-OCT-2007 11:59
Cal : 457416630001 Caldate : 16-OCT-2007 Caltype : SOIL
Standards: S7444 (1000X), S7417 (16670X), S7296 (16670X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Benzene	1.7951	1.8998	30.00	31.75	ug/L	6	20	0.0500	
Toluene	0.9901	1.0295	30.00	31.19	ug/L	4	20	0.0500	
Ethylbenzene	2.0573	2.0465	30.00	29.84	ug/L	-1	20	0.0500	
m,p-Xylenes	0.7280	0.7017	60.00	57.83	ug/L	-4	20	0.0500	
o-Xylene	0.7223	0.7215	30.00	29.97	ug/L	0	20	0.0500	
Dibromofluoromethane	0.5998	0.6228	50.00	51.92	ug/L	4	20	0.0500	
1,2-Dichloroethane-d4	0.3625	0.3912	50.00	53.95	ug/L	8	20	0.0500	
Toluene-d8	1.0861	1.1188	50.00	51.50	ug/L	3	20	0.0500	
Bromofluorobenzene	1.0385	1.0883	50.00	52.39	ug/L	5	20	0.0500	

ISTD (ICAL fjg12)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	648593	758466	16.94	11.97	11.96	-0.01
1,4-Difluorobenzene	1117283	1275225	14.14	13.29	13.27	-0.02
Chlorobenzene-d5	950692	1092533	14.92	17.99	17.99	0.00
1,4-Dichlorobenzene-d4	478437	580962	21.43	20.84	20.83	-0.01

Analyst: WNH Date: 10/18/07 Reviewer: BO Date: 10/18/07

457418080007.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 457418080

Date : 10/17/07
Sequence : MSVOA06 fjh

Reference : fjg12
Analyzed : 10/16/07 13:58

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	648593	11.97	1117283	13.29	950692	17.99	478437	20.84
		LOWER LIMIT	324297	11.47	558642	12.79	475346	17.49	239219	20.34
		UPPER LIMIT	1297186	12.47	2234566	13.79	1901384	18.49	956874	21.34
003	CCV	30PPB	745649	11.96	1267556	13.27	1067605	17.99	546205	20.85
007	CCV	30PPB	758466	11.96	1275225	13.27	1092533	17.99	580962	20.83
008	LCS	QC410899	693136	11.95	1175007	13.27	1018873	17.98	600711	20.83
010	BLANK	QC410900	719376	11.96	1237030	13.27	1027939	17.99	535300	20.83
011	SAMPLE	198381-003	697414	11.95	1253207	13.26	1059710	17.98	518595	20.84
012	SAMPLE	198381-004	704628	11.95	1243369	13.26	1096651	17.99	551409	20.84
013	SAMPLE	198415-002	748060	11.95	1311372	13.26	1125294	17.99	564409	20.84
014	SAMPLE	198380-001	755587	11.95	1296098	13.27	1138854	17.99	584197	20.84
015	SAMPLE	198380-002	747903	11.95	1341921	13.27	1147490	17.98	583311	20.83
016	MSS	198379-005	766010	11.95	1374321	13.26	1181631	17.98	630651	20.83
017	SAMPLE	198379-006	745493	11.95	1335410	13.26	1193578	17.99	635821	20.84
018	SAMPLE	198437-001	786669	11.95	1395841	13.27	1215060	17.98	600558	20.83
019	SAMPLE	198437-003	755275	11.95	1309745	13.26	1172668	17.98	595966	20.84
020	SAMPLE	198437-005	743740	11.95	1320354	13.26	1098094	17.98	568722	20.84
021	SAMPLE	198437-007	761490	11.95	1311453	13.26	1128810	17.98	574957	20.83
022	SAMPLE	198437-009	806509	11.95	1415681	13.26	1207154	17.99	607378	20.83
023	SAMPLE	198437-011	754540	11.95	1315747	13.26	1176605	17.98	597446	20.83
024	MS	QC410915	782029	11.94	1372448	13.26	1222442	17.98	629811	20.83
025	MSD	QC410916	794804	11.95	1406077	13.26	1228101	17.98	638629	20.83

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457416630

Instrument : MSVOA06
Method : EPA 8260B

Begun : 10/16/07 07:50
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	fjg01	X	IB			10/16/07 07:50	1.0	1
002	fjg02	TUN	BFB			10/16/07 09:15	1.0	2
003	fjg03	TUN	BFB			10/16/07 09:42	1.0	2
004	fjg04	TUN	BFB			10/16/07 09:56	1.0	2
005	fjg05	TUN	BFB			10/16/07 10:10	1.0	2
006	fjg06	TUN	BFB			10/16/07 10:30	1.0	2
007	fjg07	IB	CALIB IB			10/16/07 11:03	1.0	1
008	fjg08	ICAL	2.5PPB			10/16/07 11:38	1.0	3 4 1
009	fjg09	ICAL	5PPB			10/16/07 12:13	1.0	3 4 1
010	fjg10	ICAL	10PPB			10/16/07 12:48	1.0	3 4 1
011	fjg11	ICAL	20PPB			10/16/07 13:23	1.0	3 4 1
012	fjg12	ICAL	50PPB			10/16/07 13:58	1.0	3 4 1
013	fjg13	ICAL	60PPB			10/16/07 14:32	1.0	3 4 1
014	fjg14	ICAL	75PPB			10/16/07 15:08	1.0	3 4 1
015	fjg15	ICAL	100PPB			10/16/07 15:43	1.0	3 4 1
016	fjg16	ICV	25PPB			10/16/07 16:18	1.0	5 1
017	fjg17	ICV	25PPB			10/16/07 16:53	1.0	6 7 1
018	fjg18	X	IB			10/16/07 17:28	1.0	1

Analyst: BO Date: 10/17/07 Reviewer: LW Date: 10/18/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7296 5=S7415 6=S7229 7=S7051

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457418080

Instrument : MSVOA06
Method : EPA 8260B
Begun : 10/17/07 08:00
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	fjh01	X	IB			10/17/07 08:00	1.0	1
002	fjh02	TUN	BFB			10/17/07 08:47	1.0	2
003	fjh03	CCV	30PPB			10/17/07 09:05	1.0	3 4 1
004	fjh04	X	25PPB			10/17/07 10:01	1.0	5 6 1
005	fjh05	ICV	25PPB			10/17/07 10:53	1.0	5 6 1
006	fjh06	TUN	BFB			10/17/07 11:42	1.0	2
007	fjh07	CCV	30PPB			10/17/07 11:59	1.0	1 3 4
008	fjh08	LCS	QC410899	Soil	130625	10/17/07 12:50	1.0	5 7 6 1
009	fjh09	X	IB			10/17/07 13:24	1.0	1
010	fjh10	BLANK	QC410900	Soil	130625	10/17/07 13:59	1.0	1
011	fjh11	SAMPLE	198381-003	Soil	130625	10/17/07 14:34	0.9259	1
012	fjh12	SAMPLE	198381-004	Soil	130625	10/17/07 15:09	1.0	1
013	fjh13	SAMPLE	198415-002	Soil	130625	10/17/07 15:44	1.429	1
014	fjh14	SAMPLE	198380-001	Soil	130625	10/17/07 16:18	0.8621	1
015	fjh15	SAMPLE	198380-002	Soil	130625	10/17/07 16:53	0.9434	1
016	fjh16	MSS	198379-005	Soil	130625	10/17/07 17:27	0.7813	1
017	fjh17	SAMPLE	198379-006	Soil	130625	10/17/07 18:02	0.8065	1
018	fjh18	SAMPLE	198437-001	Soil	130625	10/17/07 18:37	0.8197	1
019	fjh19	SAMPLE	198437-003	Soil	130625	10/17/07 19:12	0.7246	1
020	fjh20	SAMPLE	198437-005	Soil	130625	10/17/07 19:47	0.7576	1
021	fjh21	SAMPLE	198437-007	Soil	130625	10/17/07 20:22	0.8929	1
022	fjh22	SAMPLE	198437-009	Soil	130625	10/17/07 20:56	1.471	1
023	fjh23	SAMPLE	198437-011	Soil	130625	10/17/07 21:31	0.7692	1
024	fjh24	MS	QC410915	Soil	130625	10/17/07 22:06	0.7813	5 7 6 1
025	fjh25	MSD	QC410916	Soil	130625	10/17/07 22:41	0.8197	5 7 6 1
026	fjh26	X	IB			10/17/07 23:16	1.0	1
027	fjh27	X	IB			10/17/07 23:50	1.0	1
028	fjh28	X	IB			10/18/07 00:25	1.0	1
029	fjh29	X	6A			10/18/07 01:00	1.0	1
030	fjh30	X	6B			10/18/07 01:35	1.0	1

Analyst: BO Date: 10/18/07 Reviewer: LW Date: 10/18/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7296 5=S7229 6=S7051 7=S7275

REPORTING SUMMARY FOR 198380 8020MS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	BZ	BZME	EBZ	XYLM	XYLO	DBFM	DCA1	BZME2	BR4F	
198380-001	MSVOA06	10/17/07 16:18	0.8621	+	+	+	+	+	+	+	+	+	
198380-002	MSVOA06	10/17/07 16:53	0.9434	+	+	+	+	+	+	+	+	+	
QC410899	MSVOA06	10/17/07 12:50	1.0	+	+	+	+	+	+	+	+	+	
QC410900	MSVOA06	10/17/07 13:59	1.0	+	+	+	+	+	+	+	+	+	
QC410915	MSVOA06	10/17/07 22:06	0.7813	+	+	+	+	+	+	+	+	+	
QC410916	MSVOA06	10/17/07 22:41	0.8197	+	+	+	+	+	+	+	+	+	

0011U

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 10/17/07

Prepped by: Liz

130625

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198381-003	5.4	A		6	RRe 1x 5% spike & hits		10-19
2	↓ -004	5.0	↓		↓	↓ 1x ↓ ↓		↓
3	198380-1	5.8	B		6	Rocks		
4	↓ -2	5.3	A		↓			
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

RUSH

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198379-5	6.4	A		6	MS		
2	↓ -5	6.4	B		↓	MS		
3	-5	6.1	C			MSD		
4	-6	6.2	A					
5	198437-1	6.1	B					
6	-3	6.9	↓					
7	-5	6.6						
8	-7	5.6						
9	-9	3.4						
10	-11	6.5	↓					
11	198415-2	3.5	A					
12	~~198380-1~~							
13	↓ -2				↓			
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

SEMI-VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065BC400	Batch#:	130758
Lab ID:	198380-001	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07
Units:	ug/Kg	Prepared:	10/20/07
Basis:	dry	Analyzed:	10/22/07
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL	MDL
Naphthalene	18	5.0	0.76
2-Methylnaphthalene	14	5.0	0.73
Acenaphthylene	ND	5.0	0.82
Acenaphthene	ND	5.0	0.67
Fluorene	6.3	5.0	0.81
Phenanthrene	35	5.0	0.55
Anthracene	ND	5.0	1.6
Fluoranthene	0.72 J	5.0	0.71
Pyrene	2.5 J	5.0	0.73
Benzo(a)anthracene	ND	5.0	0.65
Chrysene	ND	5.0	1.2
Benzo(b)fluoranthene	ND	5.0	0.38
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	1.1
Indeno(1,2,3-cd)pyrene	ND	5.0	0.69
Dibenz(a,h)anthracene	ND	5.0	0.74
Benzo(g,h,i)perylene	ND	5.0	0.66

Surrogate	%REC	Limits
Nitrobenzene-d5	67	39-136
2-Fluorobiphenyl	88	42-120
Terphenyl-d14	43	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

31.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065BC401	Batch#:	130658
Lab ID:	198380-002	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07
Units:	ug/Kg	Prepared:	10/18/07
Basis:	dry	Analyzed:	10/20/07
Diln Fac:	1.000		

Moisture: 3%

Analyte	Result	RL	MDL
Naphthalene	23	5.1	0.59
2-Methylnaphthalene	17	5.1	0.53
Acenaphthylene	ND	5.1	0.57
Acenaphthene	ND	5.1	0.50
Fluorene	17	5.1	0.57
Phenanthrene	59	5.1	0.47
Anthracene	3.1 J	5.1	0.68
Fluoranthene	3.4 J	5.1	0.55
Pyrene	12	5.1	0.44
Benzo(a)anthracene	2.2 J	5.1	0.52
Chrysene	4.5 J	5.1	0.49
Benzo(b)fluoranthene	5.4	5.1	0.61
Benzo(k)fluoranthene	ND	5.1	0.67
Benzo(a)pyrene	1.9 J	5.1	0.77
Indeno(1,2,3-cd)pyrene	1.2 J	5.1	0.36
Dibenz(a,h)anthracene	ND	5.1	0.31
Benzo(g,h,i)perylene	10	5.1	0.41

Surrogate	%REC	Limits
Nitrobenzene-d5	88	39-136
2-Fluorobiphenyl	68	42-120
Terphenyl-d14	80	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

32.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC411034	Batch#:	130658
Matrix:	Soil	Prepared:	10/18/07
Units:	ug/Kg	Analyzed:	10/19/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.78
2-Methylnaphthalene	ND	5.0	0.64
Acenaphthylene	ND	5.0	0.83
Acenaphthene	ND	5.0	0.66
Fluorene	ND	5.0	0.70
Phenanthrene	ND	5.0	1.0
Anthracene	ND	5.0	1.2
Fluoranthene	ND	5.0	1.1
Pyrene	ND	5.0	0.60
Benzo(a)anthracene	ND	5.0	0.73
Chrysene	ND	5.0	0.51
Benzo(b)fluoranthene	ND	5.0	0.51
Benzo(k)fluoranthene	ND	5.0	0.85
Benzo(a)pyrene	ND	5.0	0.89
Indeno(1,2,3-cd)pyrene	ND	5.0	0.51
Dibenz(a,h)anthracene	ND	5.0	0.59
Benzo(g,h,i)perylene	ND	5.0	0.56

Surrogate	%REC	Limits
Nitrobenzene-d5	50	39-136
2-Fluorobiphenyl	53	42-120
Terphenyl-d14	68	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

33.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC411433	Batch#:	130758
Matrix:	Soil	Prepared:	10/20/07
Units:	ug/Kg	Analyzed:	10/22/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	1.2 J	5.0	0.61
2-Methylnaphthalene	ND	5.0	0.41
Acenaphthylene	ND	5.0	0.66
Acenaphthene	ND	5.0	0.62
Fluorene	ND	5.0	0.52
Phenanthrene	ND	5.0	0.45
Anthracene	ND	5.0	0.83
Fluoranthene	ND	5.0	0.45
Pyrene	ND	5.0	0.44
Benzo(a)anthracene	ND	5.0	0.63
Chrysene	ND	5.0	0.52
Benzo(b)fluoranthene	ND	5.0	0.69
Benzo(k)fluoranthene	ND	5.0	0.75
Benzo(a)pyrene	ND	5.0	0.75
Indeno(1,2,3-cd)pyrene	ND	5.0	0.55
Dibenz(a,h)anthracene	ND	5.0	0.38
Benzo(g,h,i)perylene	ND	5.0	0.42

Surrogate	%REC	Limits
Nitrobenzene-d5	64	39-136
2-Fluorobiphenyl	87	42-120
Terphenyl-d14	106	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC411035	Batch#:	130658
Matrix:	Soil	Prepared:	10/18/07
Units:	ug/Kg	Analyzed:	10/18/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.24	25.37	76	42-120
Pyrene	33.24	25.02	75	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	92	39-136
2-Fluorobiphenyl	89	42-120
Terphenyl-d14	88	34-130

34.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC411434	Batch#:	130758
Matrix:	Soil	Prepared:	10/20/07
Units:	ug/Kg	Analyzed:	10/22/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.15	22.45	68	42-120
Pyrene	33.15	29.93 b	90	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	59	39-136
2-Fluorobiphenyl	81	42-120
Terphenyl-d14	102	34-130

b= See narrative

37.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	130658
MSS Lab ID:	198379-005	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07
Units:	ug/Kg	Prepared:	10/18/07
Basis:	dry	Analyzed:	10/18/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC411036

Moisture: 8%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<0.6795	35.96	24.28	68	47-120
Pyrene	<0.4797	35.96	25.60	71	17-146

Surrogate	%REC	Limits
Nitrobenzene-d5	84	39-136
2-Fluorobiphenyl	77	42-120
Terphenyl-d14	85	34-130

Type: MSD
Lab ID: QC411037

Moisture: 8%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	35.90	20.29	57	47-120	18	32
Pyrene	35.90	23.02	64	17-146	10	47

Surrogate	%REC	Limits
Nitrobenzene-d5	72	39-136
2-Fluorobiphenyl	75	42-120
Terphenyl-d14	76	34-130

RPD= Relative Percent Difference

35.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	130758
MSS Lab ID:	198257-006	Sampled:	10/10/07
Matrix:	Soil	Received:	10/10/07
Units:	ug/Kg	Prepared:	10/20/07
Basis:	dry	Analyzed:	10/22/07
Diln Fac:	3.000		

Type: MS
Lab ID: QC411435

Moisture: 8%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<2.042	35.81	31.16	87	47-120
Pyrene	23.48	35.81	67.62 b	123	17-146

Surrogate	%REC	Limits
Nitrobenzene-d5	78	39-136
2-Fluorobiphenyl	104	42-120
Terphenyl-d14	127	34-130

Type: MSD
Lab ID: QC411436

Moisture: 8%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	35.91	7.379	21 *	47-120	124 *	32
Pyrene	35.91	20.03 b	-10 *	17-146	109 *	47

Surrogate	%REC	Limits
Nitrobenzene-d5	15 *	39-136
2-Fluorobiphenyl	23 *	42-120
Terphenyl-d14	32 *	34-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

43.0

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517409623004 File : ujb04 Time : 11-OCT-2007 16:12

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	37374	40.99	
68	< 2% of mass 69	0	0.00	
69		34558		
70	< 2% of mass 69	134	0.39	
127	40% - 60% of mass 198	51360	56.33	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	6182	6.78	
275	10% - 30% of mass 198	17229	18.89	
365	> 1% of mass 198	1624	1.78	
441	Present, < mass 443	12028	71.45	
442	> 40% and < 100% of mass 198	84725	92.92	
443	17% - 23% of mass 442	16834	19.87	

Analyst: LLH Date: 10/12/07 Reviewer: CW Date: 10/12/07

517409623004

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP 50NG IDF : 1.0
Seqnum : 517423001002 File : ujk02 Time : 20-OCT-2007 18:17

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	19756	46.91	
68	< 2% of mass 69	231	1.33	
69		17315		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	24932	59.20	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	2823	6.70	
275	10% - 30% of mass 198	7993	18.98	
365	> 1% of mass 198	1030	2.45	
441	Present, < mass 443	4965	76.96	
442	> 40% and < 100% of mass 198	32672	77.58	
443	17% - 23% of mass 442	6451	19.74	

Analyst: AD Date: 10/22/07 Reviewer: SHD Date: 10/22/07

517423001002

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527398033014 File : vj314 Time : 03-OCT-2007 17:27

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	137171	50.69	
68	< 2% of mass 69	0	0.00	
69		140068		
70	< 2% of mass 69	833	0.59	
127	40% - 60% of mass 198	143672	53.09	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	18373	6.79	
275	10% - 30% of mass 198	70624	26.10	
365	> 1% of mass 198	7069	2.61	
441	Present, < mass 443	32829	92.92	
442	> 40% and < 100% of mass 198	177557	65.61	
443	17% - 23% of mass 442	35330	19.90	

Analyst: AD Date: 10/04/07 Reviewer: LW Date: 10/04/07

527398033014

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527398033022 File : vj322 Time : 03-OCT-2007 23:07

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	171945	50.10	
68	< 2% of mass 69	0	0.00	
69		185152		
70	< 2% of mass 69	363	0.20	
127	40% - 60% of mass 198	188352	54.88	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	23960	6.98	
275	10% - 30% of mass 198	99389	28.96	
365	> 1% of mass 198	11010	3.21	
441	Present, < mass 443	52269	86.09	
442	> 40% and < 100% of mass 198	303402	88.40	
443	17% - 23% of mass 442	60714	20.01	

Analyst: AD Date: 10/04/07 Reviewer: LW Date: 10/04/07

527398033022

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527419498004 File : vji04 Time : 18-OCT-2007 09:14

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	184704	46.79	
68	< 2% of mass 69	0	0.00	
69		173952		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	222144	56.27	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	26504	6.71	
275	10% - 30% of mass 198	117808	29.84	
365	> 1% of mass 198	11880	3.01	
441	Present, < mass 443	70248	95.03	
442	> 40% and < 100% of mass 198	385344	97.62	
443	17% - 23% of mass 442	73920	19.18	

Analyst: SHD Date: 10/18/07 Reviewer: LLH Date: 10/19/07

527419498004

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527425348001 File : vjm01 Time : 22-OCT-2007 09:08

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	158299	40.55	
68	< 2% of mass 69	0	0.00	
69		144872		
70	< 2% of mass 69	416	0.29	
127	40% - 60% of mass 198	225109	57.66	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	27498	7.04	
275	10% - 30% of mass 198	114949	29.44	
365	> 1% of mass 198	10300	2.64	
441	Present, < mass 443	31682	84.69	
442	> 40% and < 100% of mass 198	193472	49.56	
443	17% - 23% of mass 442	37410	19.34	

Analyst: SHD Date: 10/22/07 Reviewer: AD Date: 10/22/07

527425348001

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA07 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 567395873004 File : zj104 Time : 01-OCT-2007 23:33

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	130340	37.09	
68	< 2% of mass 69	0	0.00	
69		165808		
70	< 2% of mass 69	999	0.60	
127	40% - 60% of mass 198	198400	56.46	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	21986	6.26	
275	10% - 30% of mass 198	91216	25.96	
365	> 1% of mass 198	11463	3.26	
441	Present, < mass 443	51970	77.26	
442	> 40% and < 100% of mass 198	347242	98.82	
443	17% - 23% of mass 442	67269	19.37	

Analyst: SHD Date: 10/02/07 Reviewer: LW Date: 10/02/07

567395873004

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA07 Run Name : DFTPP 50NG IDF : 1.0
Seqnum : 567421018001 File : zjj01 Time : 19-OCT-2007 08:58

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	207616	36.46	
68	< 2% of mass 69	0	0.00	
69		253376		
70	< 2% of mass 69	1543	0.61	
127	40% - 60% of mass 198	313728	55.09	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	35232	6.19	
275	10% - 30% of mass 198	140608	24.69	
365	> 1% of mass 198	16400	2.88	
441	Present, < mass 443	84824	78.00	
442	> 40% and < 100% of mass 198	553664	97.22	
443	17% - 23% of mass 442	108752	19.64	

Analyst: LLH Date: 10/19/07 Reviewer: SHD Date: 10/19/07

567421018001

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP IDF : 1.0
Seqnum : 577399499007 File : sj407 Time : 04-OCT-2007 14:02

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	56723	51.72	
68	< 2% of mass 69	0	0.00	
69		51520		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	54896	50.05	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	7427	6.77	
275	10% - 30% of mass 198	26024	23.73	
365	> 1% of mass 198	3682	3.36	
441	Present, < mass 443	1730	12.57	
442	> 40% and < 100% of mass 198	71352	65.06	
443	17% - 23% of mass 442	13763	19.29	

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

577399499007

CURTIS & TOMPKINS DFTPP TUNE FOR 198380 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 577425349001 File : sjm01 Time : 22-OCT-2007 09:09

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	89146	48.15	
68	< 2% of mass 69	0	0.00	
69		70267		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	87640	47.34	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	13502	7.29	
275	10% - 30% of mass 198	36905	19.93	
365	> 1% of mass 198	4788	2.59	
441	Present, < mass 443	14855	81.77	
442	> 40% and < 100% of mass 198	95410	51.53	
443	17% - 23% of mass 442	18167	19.04	

Analyst: SHD Date: 10/22/07 Reviewer: AD Date: 10/22/07

577425349001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517409623001
Units : ug/mL

Name : 2PAHSIM
Date : 11-OCT-2007 18:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ujb07	517409623007	0.1/0.5PPM	11-OCT-2007 18:44	S7213
L2	ujb08	517409623008	0.2/1.0PPM	11-OCT-2007 19:21	S7214
L3	ujb09	517409623009	0.5/2.5PPM	11-OCT-2007 20:04	S7215
L4	ujb10	517409623010	1.0/5.0PPM	11-OCT-2007 20:42	S7216
L5	ujb11	517409623011	2.0/10.0PPM	11-OCT-2007 21:19	S7217
L6	ujb12	517409623012	5.0/25.0PPM	11-OCT-2007 22:02	S7218
L7	ujb13	517409623013	10.0/50.0PPM	11-OCT-2007 22:42	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0183	1.0102	1.0162	1.0773	1.1083	1.1520	1.0977	AVRG		0.93583		1.0686	5	15	0.05	0.99	
2-Methylnaphthalene	0.5750	0.6220m	0.6012	0.6643	0.6678	0.7100	0.7280	AVRG		1.53230		0.6526	9	15	0.05	0.99	
Acenaphthylene	1.5052m	1.5715m	1.6734	1.7432	2.0080	2.0407	2.0167	AVRG		0.55739		1.7941	13	15	0.05	0.99	
Acenaphthene	1.0559m	1.0785m	1.0239m	1.1106m	1.1692	1.1718	1.1479	AVRG		0.90231		1.1083	5	15	0.05	0.99	
Fluorene	1.1743	1.2040	1.2721	1.3268	1.4139	1.4023	1.4587	AVRG		0.75660		1.3217	8	15	0.05	0.99	
Phenanthrene	1.1501	1.2507	1.2122	1.3023	1.2942	1.3378	1.3442	AVRG		0.78727		1.2702	6	15	0.05	0.99	
Anthracene	0.9943m	1.0622m	1.0822m	1.1627m	1.2451m	1.3072m	1.3238m	AVRG		0.85601		1.1682	11	15	0.05	0.99	
Fluoranthene	1.0685	1.1192	1.1093	1.1709	1.2470	1.2951	1.3488	AVRG		0.83743		1.1941	9	15	0.05	0.99	
Pyrene	1.4806	1.5271	1.5210	1.5098	1.5012	1.5364	1.5682	AVRG		0.65763		1.5206	2	15	0.05	0.99	
Benzo(a)anthracene	0.8372	0.9088	0.9465	0.9894	1.0634	1.1211	1.1410	AVRG		0.99894		1.0011	11	15	0.05	0.99	
Chrysene	0.9983m	1.1321m	1.1163m	1.1005m	1.2194m	1.1708m	1.1647m	AVRG		0.88583		1.1289	6	15	0.05	0.99	
Benzo(b)fluoranthene	1.0262	1.1671m	1.1832	1.2958	1.3391m	1.4535m	1.4374m	AVRG		0.78633		1.2717	12	15	0.05	0.99	
Benzo(k)fluoranthene	1.3466m	1.3313m	1.4707m	1.3925m	1.5480m	1.7249m	1.5692m	AVRG		0.67417		1.4833	10	15	0.05	0.99	
Benzo(a)pyrene	0.8534	0.9072	0.9771	1.0950	1.1456			AVRG		1.00436		0.9957	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.8591m	0.9287m	1.0087	1.0622	1.1514			AVRG		0.99798		1.0020	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6807m	0.6957m	0.7895	0.8248	0.8820			AVRG		1.29110		0.7745	11	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9284m	0.9646	0.9779	0.9899	0.9953	1.1707	1.2136	AVRG		0.96678		1.0344	11	15	0.05	0.99	
Nitrobenzene-d5	0.1193	0.1335	0.1394	0.1639	0.1720			AVRG		6.86784		0.1456	15	15	0.05	0.99	
2-Fluorobiphenyl	1.0756	1.1989	1.2155	1.3242	1.3380	1.3492	1.3877	AVRG		0.78749		1.2699	9	15	0.05	0.99	
Terphenyl-d14	0.9932	1.0503	1.0703	1.0859	1.1361	1.0975	1.0803	AVRG		0.93166		1.0734	4	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-5	0.200	-5	0.500	-5	1.000	1	2.000	4	5.000	8	10.00	3
2-Methylnaphthalene	0.100	-12	0.200	-5	0.500	-8	1.000	2	2.000	2	5.000	9	10.00	12
Acenaphthylene	0.100	-16	0.200	-12	0.500	-7	1.000	-3	2.000	12	5.000	14	10.00	12
Acenaphthene	0.100	-5	0.200	-3	0.500	-8	1.000	0	2.000	6	5.000	6	10.00	4
Fluorene	0.100	-11	0.200	-9	0.500	-4	1.000	0	2.000	7	5.000	6	10.00	10
Phenanthrene	0.100	-9	0.200	-2	0.500	-5	1.000	3	2.000	2	5.000	5	10.00	6
Anthracene	0.100	-15	0.200	-9	0.500	-7	1.000	0	2.000	7	5.000	12	10.00	13
Fluoranthene	0.100	-11	0.200	-6	0.500	-7	1.000	-2	2.000	4	5.000	8	10.00	13
Pyrene	0.100	-3	0.200	0	0.500	0	1.000	-1	2.000	-1	5.000	1	10.00	3
Benzo(a)anthracene	0.100	-16	0.200	-9	0.500	-5	1.000	-1	2.000	6	5.000	12	10.00	14
Chrysene	0.100	-12	0.200	0	0.500	-1	1.000	-3	2.000	8	5.000	4	10.00	3
Benzo(b)fluoranthene	0.100	-19	0.200	-8	0.500	-7	1.000	2	2.000	5	5.000	14	10.00	13
Benzo(k)fluoranthene	0.100	-9	0.200	-10	0.500	-1	1.000	-6	2.000	4	5.000	16	10.00	6
Benzo(a)pyrene	0.100	-14	0.200	-9	0.500	-2	1.000	10	2.000	15				
Indeno(1,2,3-cd)pyrene	0.100	-14	0.200	-7	0.500	1	1.000	6	2.000	15				
Dibenz(a,h)anthracene	0.100	-12	0.200	-10	0.500	2	1.000	6	2.000	14				
Benzo(g,h,i)perylene	0.100	-10	0.200	-7	0.500	-5	1.000	-4	2.000	-4	5.000	13	10.00	17
Nitrobenzene-d5	0.100	-18	0.200	-8	0.500	-4	1.000	13	2.000	18				
2-Fluorobiphenyl	0.100	-15	0.200	-6	0.500	-4	1.000	4	2.000	5	5.000	6	10.00	9
Terphenyl-d14	0.100	-7	0.200	-2	0.500	0	1.000	1	2.000	6	5.000	2	10.00	1

Analyst: LLH Date: 10/12/07 Reviewer: CW Date: 10/12/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198380 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 517409623001 Cal Date : 11-OCT-2007

ICV 517409623014 (ujb14 11-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0686	0.9688	1.000	0.9066	ug/mL	-9	20	
2-Methylnaphthalene	0.6526	0.5574	1.000	0.8541	ug/mL	-15	20	
Acenaphthylene	1.7941	1.7568	1.000	0.9792	ug/mL	-2	20	
Acenaphthene	1.1083	0.9952	1.000	0.8980	ug/mL	-10	20	
Fluorene	1.3217	1.2170	1.000	0.9208	ug/mL	-8	20	
Phenanthrene	1.2702	1.0823	1.000	0.8520	ug/mL	-15	20	
Anthracene	1.1682	1.1563	1.000	0.9898	ug/mL	-1	20	m
Fluoranthene	1.1941	1.0705	1.000	0.8965	ug/mL	-10	20	
Pyrene	1.5206	1.4544	1.000	0.9564	ug/mL	-4	20	
Benzo(a)anthracene	1.0011	0.9533	1.000	0.9523	ug/mL	-5	20	
Chrysene	1.1289	1.0823	1.000	0.9587	ug/mL	-4	20	m
Benzo(b)fluoranthene	1.2717	1.3486	1.000	1.060	ug/mL	6	20	m
Benzo(k)fluoranthene	1.4833	1.3962	1.000	0.9413	ug/mL	-6	20	m
Benzo(a)pyrene	0.9957	1.0201	1.000	1.025	ug/mL	2	20	
Indeno(1,2,3-cd)pyrene	1.0020	0.9962	1.000	0.9942	ug/mL	-1	20	
Dibenz(a,h)anthracene	0.7745	0.8048	1.000	1.039	ug/mL	4	20	
Benzo(g,h,i)perylene	1.0344	0.9581	1.000	0.9263	ug/mL	-7	20	

m=manual integration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 527398033002
Units : ug/mL

Name : 3PAHSIM
Date : 03-OCT-2007 17:53
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vj315	527398033015	0.1/0.5UG/ML	03-OCT-2007 17:53	S7213
L2	vj316	527398033016	0.2/1.0UG/ML	03-OCT-2007 18:27	S7214
L3	vj317	527398033017	0.5/2.5UG/ML	03-OCT-2007 19:04	S7215
L4	vj318	527398033018	1.0/5.0UG/ML	03-OCT-2007 19:40	S7216
L5	vj319	527398033019	2.0/10UG/ML	03-OCT-2007 20:13	S7217
L6	vj320	527398033020	5.0/25UG/ML	03-OCT-2007 20:47	S7218
L7	vj321	527398033021	10/50UG/ML	03-OCT-2007 21:21	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	0.9912	1.0418	1.1149	1.1383	1.1653	1.1632	1.1411	AVRG		0.90255		1.1080	6	15	0.05	0.99	
2-Methylnaphthalene	0.4694m	0.4173	0.4958	0.5801	0.6403	0.6991	0.7043	LINR	0.12446	1.40312		0.5723	1.000	15	0.05	0.99	
Acenaphthylene	1.6306m	1.6063m	1.6666	1.8545	1.8770	1.9545	1.8841	AVRG		0.56119		1.7819	8	15	0.05	0.99	
Acenaphthene	1.0913m	1.0852m	1.0917	1.1369	1.1466	1.1680	1.1282	AVRG		0.89197		1.1211	3	15	0.05	0.99	
Fluorene	1.0496	1.0746	1.1628	1.3581	1.3583	1.4054	1.3690	AVRG		0.79746		1.2540	12	15	0.05	0.99	
Phenanthrene	1.1118	0.9583	1.0211	1.0541	1.0929	1.2222	1.1769	AVRG		0.91655		1.0910	8	15	0.05	0.99	
Anthracene	1.2800m	1.1744m	1.2487m	1.2291m	1.2260m	1.3107m	1.2284m	AVRG		0.80485		1.2425	4	15	0.05	0.99	
Fluoranthene	1.2755	1.1855	1.3022	1.3445	1.3584	1.4744	1.3449	AVRG		0.75386		1.3265	7	15	0.05	0.99	
Pyrene	1.3223m	1.3179m	1.2208	1.2553	1.2930	1.3463	1.3049	AVRG		0.77258		1.2944	3	15	0.05	0.99	
Benzo(a)anthracene	0.8756	0.8716	0.9015	0.9907	1.0985	1.1437	1.1183	AVRG		1.00002		1.0000	12	15	0.05	0.99	
Chrysene	1.3995m	1.4239m	1.3953m	1.4051m	1.3740m	1.3451m	1.2479	AVRG		0.72985		1.3701	4	15	0.05	0.99	
Benzo(b)fluoranthene	0.8780	0.9389	1.0061	1.1290	1.2690			AVRG		0.95768		1.0442	15	15	0.05	0.99	
Benzo(k)fluoranthene	1.5780m	1.6659m	1.7032m	1.7246m	1.5912	1.6720m	1.4695	AVRG		0.61380		1.6292	5	15	0.05	0.99	
Benzo(a)pyrene	0.9747	1.2110m	1.2212	1.3019	1.3036	1.3672	1.3060	AVRG		0.80593		1.2408	10	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.0058m	0.9775	1.0798	1.1781	1.2364	1.2978	1.2547	AVRG		0.87172		1.1472	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.7342	0.8049	0.8634	0.9415	0.9835	1.0589	1.0335	AVRG		1.09036		0.9171	13	15	0.05	0.99	
Benzo(g,h,i)perylene	0.8652m	0.9113m	0.9797m	0.9688	0.9723	0.9937	0.9532	AVRG		1.05355		0.9492	5	15	0.05	0.99	
Nitrobenzene-d5		0.2130m	0.1994m	0.2112m	0.2111m	0.2706m		AVRG		4.52357		0.2211	13	15	0.05	0.99	
2-Fluorobiphenyl	1.1713m	1.1041m	1.0420	1.1869	1.1688	1.3622	1.3123	AVRG		0.83856		1.1925	9	15	0.05	0.99	
Terphenyl-d14	0.8060	0.8782m	0.8638	0.8936	0.9291	0.9685	0.9496	AVRG		1.11307		0.8984	6	15	0.05	0.99	

SGS 2008

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-11	0.200	-6	0.500	1	1.000	3	2.000	5	5.000	5	10.00	3
2-Methylnaphthalene	0.100	90	0.200	21	0.500	-6	1.000	-6	2.000	-4	5.000	1	10.00	0
Acenaphthylene	0.100	-8	0.200	-10	0.500	-6	1.000	4	2.000	5	5.000	10	10.00	6
Acenaphthene	0.100	-3	0.200	-3	0.500	-3	1.000	1	2.000	2	5.000	4	10.00	1
Fluorene	0.100	-16	0.200	-14	0.500	-7	1.000	8	2.000	8	5.000	12	10.00	9
Phenanthrene	0.100	2	0.200	-12	0.500	-6	1.000	-3	2.000	0	5.000	12	10.00	8
Anthracene	0.100	3	0.200	-5	0.500	1	1.000	-1	2.000	-1	5.000	5	10.00	-1
Fluoranthene	0.100	-4	0.200	-11	0.500	-2	1.000	1	2.000	2	5.000	11	10.00	1
Pyrene	0.100	2	0.200	2	0.500	-6	1.000	-3	2.000	0	5.000	4	10.00	1
Benzo(a)anthracene	0.100	-12	0.200	-13	0.500	-10	1.000	-1	2.000	10	5.000	14	10.00	12
Chrysene	0.100	2	0.200	4	0.500	2	1.000	3	2.000	0	5.000	-2	10.00	-9
Benzo(b)fluoranthene	0.100	-16	0.200	-10	0.500	-4	1.000	8	2.000	22				
Benzo(k)fluoranthene	0.100	-3	0.200	2	0.500	5	1.000	6	2.000	-2	5.000	3	10.00	-10
Benzo(a)pyrene	0.100	-21	0.200	-2	0.500	-2	1.000	5	2.000	5	5.000	10	10.00	5
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-15	0.500	-6	1.000	3	2.000	8	5.000	13	10.00	9
Dibenz(a,h)anthracene	0.100	-20	0.200	-12	0.500	-6	1.000	3	2.000	7	5.000	15	10.00	13
Benzo(g,h,i)perylene	0.100	-9	0.200	-4	0.500	3	1.000	2	2.000	2	5.000	5	10.00	0
Nitrobenzene-d5			0.200	-4	0.500	-10	1.000	-4	2.000	-5	5.000	22		
2-Fluorobiphenyl	0.100	-2	0.200	-7	0.500	-13	1.000	0	2.000	-2	5.000	14	10.00	10
Terphenyl-d14	0.100	-10	0.200	-2	0.500	-4	1.000	-1	2.000	3	5.000	8	10.00	6

AD 10/04/07 : Manual integrations due to tailing/splitting of peaks.

Analyst: AD Date: 10/04/07 Reviewer: LW Date: 10/04/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198380 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Name : 3PAHSIM
Calnum : 527398033002 Cal Date : 03-OCT-2007

ICV 527398033023 (vj323 03-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1080	1.0518	1.000	0.9493	ug/mL	-5	20	
2-Methylnaphthalene	0.5723	0.5369	1.000	0.8777	ug/mL	-12	20	
Acenaphthylene	1.7819	1.6463	1.000	0.9239	ug/mL	-8	20	
Acenaphthene	1.1211	1.0583	1.000	0.9439	ug/mL	-6	20	
Fluorene	1.2540	1.2302	1.000	0.9810	ug/mL	-2	20	
Phenanthrene	1.0910	0.9725	1.000	0.8914	ug/mL	-11	20	
Anthracene	1.2425	1.1671	1.000	0.9394	ug/mL	-6	20	m
Fluoranthene	1.3265	1.2214	1.000	0.9208	ug/mL	-8	20	
Pyrene	1.2944	1.2661	1.000	0.9782	ug/mL	-2	20	
Benzo(a)anthracene	1.0000	0.9792	1.000	0.9792	ug/mL	-2	20	
Chrysene	1.3701	1.2460	1.000	0.9094	ug/mL	-9	20	
Benzo(b)fluoranthene	1.0442	1.0549	1.000	1.010	ug/mL	1	20	
Benzo(k)fluoranthene	1.6292	1.5403	1.000	0.9454	ug/mL	-5	20	
Benzo(a)pyrene	1.2408	1.1893	1.000	0.9585	ug/mL	-4	20	
Indeno(1,2,3-cd)pyrene	1.1472	0.9645	1.000	0.8408	ug/mL	-16	20	m
Dibenz(a,h)anthracene	0.9171	0.7652	1.000	0.8343	ug/mL	-17	20	
Benzo(g,h,i)perylene	0.9492	0.8832	1.000	0.9305	ug/mL	-7	20	m

m=manual integration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA07
Calnum : 567395873001
Units : ug/mL

Name : 7pahsim
Date : 01-OCT-2007 23:51
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	zj105	567395873005	0.1/0.5PPM	01-OCT-2007 23:51	S7213
L2	zj106	567395873006	0.2/1.0PPM	02-OCT-2007 00:22	S7214
L3	zj107	567395873007	0.5/2.5PPM	02-OCT-2007 00:54	S7215
L4	zj108	567395873008	1.0/5.0PPM	02-OCT-2007 01:25	S7216
L5	zj109	567395873009	2.0/10.0PPM	02-OCT-2007 01:55	S7217
L6	zj110	567395873010	5.0/25.0PPM	02-OCT-2007 02:26	S7218
L7	zj111	567395873011	10.0/50.0PPM	02-OCT-2007 02:57	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.2833	1.3033	1.2962	1.3519	1.3273	1.3153	1.2933	AVRG		0.76331		1.3101	2	15	0.05	0.99	
2-Methylnaphthalene	0.5120m	0.5084	0.5582	0.6078	0.6273	0.6421	0.6251	AVRG		1.71531		0.5830	10	15	0.05	0.99	
Acenaphthylene	1.3783	1.4009	1.5874	1.7246	1.8223	1.9572	1.9203	AVRG		0.59367		1.6844	14	15	0.05	0.99	
Acenaphthene	0.9828	1.0065	1.0550	1.0963	1.1187	1.1387	1.1020	AVRG		0.93332		1.0714	5	15	0.05	0.99	
Fluorene	1.0021	1.0130	1.1236	1.2046	1.2720	1.3423	1.3138	AVRG		0.84630		1.1816	12	15	0.05	0.99	
Phenanthrene	1.1869	1.2056	1.2528	1.2949	1.3170	1.3265	1.2686	AVRG		0.79074		1.2646	4	15	0.05	0.99	
Anthracene	0.8878m	0.9619m	1.0522m	1.1341m	1.1816m	1.2164	1.1871	AVRG		0.91849		1.0887	12	15	0.05	0.99	
Fluoranthene	0.9463	0.9560	1.0923	1.1928	1.2597	1.3183	1.2773	AVRG		0.87034		1.1490	13	15	0.05	0.99	
Pyrene	1.0775	1.1985	1.2970	1.3574	1.3891	1.3953	1.3442	AVRG		0.77272		1.2941	9	15	0.05	0.99	
Benzo(a)anthracene	0.8049	0.7788	0.8487	0.9374	1.0229	1.1266	1.1306	AVRG		1.05262		0.9500	15	15	0.05	0.99	
Chrysene	1.1479m	1.2038m	1.2220	1.2169	1.2077	1.2059	1.1545	AVRG		0.83745		1.1941	3	15	0.05	0.99	
Benzo(b)fluoranthene	0.9403	0.9351	1.0363	1.1938	1.2774			AVRG		0.92889		1.0766	14	15	0.05	0.99	
Benzo(k)fluoranthene	1.1696m	1.2117m	1.4074m	1.4616m	1.4972m	1.5099	1.4229m	AVRG		0.72312		1.3829	10	15	0.05	0.99	
Benzo(a)pyrene	0.9167	0.8597	1.0220	1.1565	1.2624	1.3906	1.3573	LINR	0.09419	0.72614		1.1379	1.000	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.4408m	1.2848	1.4906	1.6425	1.7680	1.9087	1.8726	AVRG		0.61361		1.6297	14	15	0.05	0.99	
Dibenz(a,h)anthracene	1.0445m	0.9405	1.0796	1.2224	1.3483			AVRG		0.88725		1.1271	14	15	0.05	0.99	
Benzo(g,h,i)perylene	1.3186m	1.3037m	1.4382	1.5518	1.6010	1.6807	1.6179	AVRG		0.66590		1.5017	10	15	0.05	0.99	
Nitrobenzene-d5	0.2894m	0.2890m	0.2831m	0.3016	0.3415	0.3875	0.4037	AVRG		3.04919		0.3280	15	15	0.05	0.99	
2-Fluorobiphenyl	1.1560m	1.0966	1.2000	1.2479	1.2760	1.3144	1.2832	AVRG		0.81642		1.2249	6	15	0.05	0.99	
Terphenyl-d14	0.9052	0.9525	1.0307	1.0770	1.1076	1.1266	1.0989	AVRG		0.95910		1.0426	8	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-2	0.200	-1	0.500	-1	1.000	3	2.000	1	5.000	0	10.00	-1
2-Methylnaphthalene	0.100	-12	0.200	-13	0.500	-4	1.000	4	2.000	8	5.000	10	10.00	7
Acenaphthylene	0.100	-18	0.200	-17	0.500	-6	1.000	2	2.000	8	5.000	16	10.00	14
Acenaphthene	0.100	-8	0.200	-6	0.500	-2	1.000	2	2.000	4	5.000	6	10.00	3
Fluorene	0.100	-15	0.200	-14	0.500	-5	1.000	2	2.000	8	5.000	14	10.00	11
Phenanthrene	0.100	-6	0.200	-5	0.500	-1	1.000	2	2.000	4	5.000	5	10.00	0
Anthracene	0.100	-18	0.200	-12	0.500	-3	1.000	4	2.000	9	5.000	12	10.00	9
Fluoranthene	0.100	-18	0.200	-17	0.500	-5	1.000	4	2.000	10	5.000	15	10.00	11
Pyrene	0.100	-17	0.200	-7	0.500	0	1.000	5	2.000	7	5.000	8	10.00	4
Benzo(a)anthracene	0.100	-15	0.200	-18	0.500	-11	1.000	-1	2.000	8	5.000	19	10.00	19
Chrysene	0.100	-4	0.200	1	0.500	2	1.000	2	2.000	1	5.000	1	10.00	-3
Benzo(b)fluoranthene	0.100	-13	0.200	-13	0.500	-4	1.000	11	2.000	19				
Benzo(k)fluoranthene	0.100	-15	0.200	-12	0.500	2	1.000	6	2.000	8	5.000	9	10.00	3
Benzo(a)pyrene	0.100	61	0.200	10	0.500	-7	1.000	-7	2.000	-4	5.000	3	10.00	0
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-21	0.500	-9	1.000	1	2.000	8	5.000	17	10.00	15
Dibenz(a,h)anthracene	0.100	-7	0.200	-17	0.500	-4	1.000	8	2.000	20				
Benzo(g,h,i)perylene	0.100	-12	0.200	-13	0.500	-4	1.000	3	2.000	7	5.000	12	10.00	8
Nitrobenzene-d5	0.100	-12	0.200	-12	0.500	-14	1.000	-8	2.000	4	5.000	18	10.00	23
2-Fluorobiphenyl	0.100	-6	0.200	-10	0.500	-2	1.000	2	2.000	4	5.000	7	10.00	5
Terphenyl-d14	0.100	-13	0.200	-9	0.500	-1	1.000	3	2.000	6	5.000	8	10.00	5

SHD 10/02/07 : 1,4 Dioxane elutes too early, solvent interferes with quantitation. This calibration can only be used for regualar SIM PAH compounds, not 1,4-Dioxane.

Analyst: SHD Date: 10/02/07 Reviewer: LW Date: 10/02/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198380 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA07 Name : 7pahsim
Calnum : 567395873001 Cal Date : 01-OCT-2007

ICV 567395873012 (zj112 02-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.3101	1.2258	1.000	0.9356	ug/mL	-6	20	
2-Methylnaphthalene	0.5830	0.5244	1.000	0.8995	ug/mL	-10	20	
Acenaphthylene	1.6844	1.5687	1.000	0.9313	ug/mL	-7	20	
Acenaphthene	1.0714	1.0172	1.000	0.9494	ug/mL	-5	20	
Fluorene	1.1816	1.1057	1.000	0.9358	ug/mL	-6	20	
Phenanthrene	1.2646	1.1773	1.000	0.9310	ug/mL	-7	20	
Anthracene	1.0887	1.1095	1.000	1.019	ug/mL	2	20	m
Fluoranthene	1.1490	1.1044	1.000	0.9612	ug/mL	-4	20	
Pyrene	1.2941	1.2797	1.000	0.9888	ug/mL	-1	20	
Benzo(a)anthracene	0.9500	0.8574	1.000	0.9025	ug/mL	-10	20	
Chrysene	1.1941	1.1402	1.000	0.9548	ug/mL	-5	20	
Benzo(b)fluoranthene	1.0766	1.0760	1.000	0.9995	ug/mL	0	20	
Benzo(k)fluoranthene	1.3829	1.3345	1.000	0.9650	ug/mL	-4	20	
Benzo(a)pyrene	1.1379	1.0788	1.000	0.8775	ug/mL	-12	20	
Indeno(1,2,3-cd)pyrene	1.6297	1.4859	1.000	0.9117	ug/mL	-9	20	
Dibenz(a,h)anthracene	1.1271	1.1391	1.000	1.011	ug/mL	1	20	
Benzo(g,h,i)perylene	1.5017	1.4467	1.000	0.9633	ug/mL	-4	20	

m=manual integration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198380 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA08
Calnum : 577399499001
Units : ug/mL

Name : 8PAHSIM
Date : 04-OCT-2007 14:22
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sj408	577399499008	ICAL 1	04-OCT-2007 14:22	S7213
L2	sj409	577399499009	ICAL 2	04-OCT-2007 14:56	S7214
L3	sj410	577399499010	ICAL 3	04-OCT-2007 15:30	S7215
L4	sj411	577399499011	ICAL 4	04-OCT-2007 16:04	S7216
L5	sj412	577399499012	ICAL 5	04-OCT-2007 16:39	S7217
L6	sj413	577399499013	ICAL 6	04-OCT-2007 17:12	S7218
L7	sj414	577399499014	ICAL 7	04-OCT-2007 17:48	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0279	1.0515	1.0576	1.0897	1.1167	1.1535	1.2380	AVRG		0.90498		1.1050	7	15	0.05	0.99	
2-Methylnaphthalene	0.6403m	0.6568m	0.6877m	0.7160	0.7280m	0.7787	0.8453	AVRG		1.38539		0.7218	10	15	0.05	0.99	
Acenaphthylene	1.7392	1.8386	1.9029	1.9958	2.0197	2.1992	2.3361	AVRG		0.49888		2.0045	10	15	0.05	0.99	
Acenaphthene	1.0019	1.0569	1.0675	1.1020	1.1192	1.2126	1.2895	AVRG		0.89178		1.1214	9	15	0.05	0.99	
Fluorene	1.1914	1.2346	1.2475	1.3164	1.3582	1.4628	1.5782	AVRG		0.74555		1.3413	10	15	0.05	0.99	
Phenanthrene	1.1189m	1.1515	1.1377	1.1762	1.2097	1.2929	1.3921	AVRG		0.82557		1.2113	8	15	0.05	0.99	
Anthracene	0.9378m	1.0065m	1.0433m	1.0988m	1.1294m	1.2291m	1.3229m	AVRG		0.90116		1.1097	12	15	0.05	0.99	
Fluoranthene	1.1865	1.2445	1.2562	1.3463	1.3710	1.4915	1.6034	AVRG		0.73688		1.3571	11	15	0.05	0.99	
Pyrene	1.1893	1.2221	1.2595	1.2855	1.3234	1.3731	1.3996	AVRG		0.77327		1.2932	6	15	0.05	0.99	
Benzo(a)anthracene	1.0258	1.0731	1.0847	1.1222	1.1667	1.2004	1.2265	AVRG		0.88614		1.1285	6	15	0.05	0.99	
Chrysene	1.0339m	1.0823m	1.0962m	1.1245m	1.1405m	1.1794m	1.1936m	AVRG		0.89167		1.1215	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.1368	1.2311	1.2480	1.3220	1.3494	1.4862	1.5129	AVRG		0.75379		1.3266	10	15	0.05	0.99	
Benzo(k)fluoranthene	1.1967m	1.2520m	1.3252m	1.3825m	1.4218m	1.5105m	1.5616m	AVRG		0.72536		1.3786	10	15	0.05	0.99	
Benzo(a)pyrene	1.0597	1.1129	1.1625	1.2451	1.3016	1.4106	1.4795	AVRG		0.79800		1.2531	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2909	1.4000	1.4491	1.5667	1.6263	1.7915	1.8456	AVRG		0.63810		1.5672	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9958	1.0914	1.1341	1.2279	1.2881	1.4330	1.5289	AVRG		0.80467		1.2427	15	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1512	1.2277	1.2880	1.3571	1.3963	1.5107	1.5496	AVRG		0.73834		1.3544	11	15	0.05	0.99	
Nitrobenzene-d5	0.2170	0.2239	0.2350	0.2499	0.2509	0.2690	0.2799	AVRG		4.05662		0.2465	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2568	1.2885	1.3273	1.3749	1.4096	1.5071	1.5747	AVRG		0.71877		1.3913	8	15	0.05	0.99	
Terphenyl-d14	0.9554	0.9851	1.0067	1.0248	1.0466	1.0897	1.1118	AVRG		0.96951		1.0314	5	15	0.05	0.99	

TestAmerica

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-7	0.200	-5	0.500	-4	1.000	-1	2.000	1	5.000	4	10.00	12
2-Methylnaphthalene	0.100	-11	0.200	-9	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	17
Acenaphthylene	0.100	-13	0.200	-8	0.500	-5	1.000	0	2.000	1	5.000	10	10.00	17
Acenaphthene	0.100	-11	0.200	-6	0.500	-5	1.000	-2	2.000	0	5.000	8	10.00	15
Fluorene	0.100	-11	0.200	-8	0.500	-7	1.000	-2	2.000	1	5.000	9	10.00	18
Phenanthrene	0.100	-8	0.200	-5	0.500	-6	1.000	-3	2.000	0	5.000	7	10.00	15
Anthracene	0.100	-15	0.200	-9	0.500	-6	1.000	-1	2.000	2	5.000	11	10.00	19
Fluoranthene	0.100	-13	0.200	-8	0.500	-7	1.000	-1	2.000	1	5.000	10	10.00	18
Pyrene	0.100	-8	0.200	-6	0.500	-3	1.000	-1	2.000	2	5.000	6	10.00	8
Benzo(a)anthracene	0.100	-9	0.200	-5	0.500	-4	1.000	-1	2.000	3	5.000	6	10.00	9
Chrysene	0.100	-8	0.200	-3	0.500	-2	1.000	0	2.000	2	5.000	5	10.00	6
Benzo(b)fluoranthene	0.100	-14	0.200	-7	0.500	-6	1.000	0	2.000	2	5.000	12	10.00	14
Benzo(k)fluoranthene	0.100	-13	0.200	-9	0.500	-4	1.000	0	2.000	3	5.000	10	10.00	13
Benzo(a)pyrene	0.100	-15	0.200	-11	0.500	-7	1.000	-1	2.000	4	5.000	13	10.00	18
Indeno(1,2,3-cd)pyrene	0.100	-18	0.200	-11	0.500	-8	1.000	0	2.000	4	5.000	14	10.00	18
Dibenz(a,h)anthracene	0.100	-20	0.200	-12	0.500	-9	1.000	-1	2.000	4	5.000	15	10.00	23
Benzo(g,h,i)perylene	0.100	-15	0.200	-9	0.500	-5	1.000	0	2.000	3	5.000	12	10.00	14
Nitrobenzene-d5	0.100	-12	0.200	-9	0.500	-5	1.000	1	2.000	2	5.000	9	10.00	14
2-Fluorobiphenyl	0.100	-10	0.200	-7	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	13
Terphenyl-d14	0.100	-7	0.200	-4	0.500	-2	1.000	-1	2.000	1	5.000	6	10.00	8

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

577399499001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198380 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Name : 8PAHSIM
Calnum : 577399499001 Cal Date : 04-OCT-2007

ICV 577399499015 (sj415 04-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1050	0.9959	1.000	0.9013	ug/mL	-10	20	
2-Methylnaphthalene	0.7218	0.6131	1.000	0.8493	ug/mL	-15	20	
Acenaphthylene	2.0045	1.8534	1.000	0.9246	ug/mL	-8	20	
Acenaphthene	1.1214	1.0220	1.000	0.9114	ug/mL	-9	20	
Fluorene	1.3413	1.2206	1.000	0.9100	ug/mL	-9	20	
Phenanthrene	1.2113	1.0804	1.000	0.8920	ug/mL	-11	20	
Anthracene	1.1097	1.0862	1.000	0.9788	ug/mL	-2	20	m
Fluoranthene	1.3571	1.2300	1.000	0.9064	ug/mL	-9	20	
Pyrene	1.2932	1.2487	1.000	0.9656	ug/mL	-3	20	
Benzo(a)anthracene	1.1285	1.0658	1.000	0.9445	ug/mL	-6	20	
Chrysene	1.1215	1.0593	1.000	0.9445	ug/mL	-6	20	
Benzo(b)fluoranthene	1.3266	1.2480	1.000	0.9407	ug/mL	-6	20	
Benzo(k)fluoranthene	1.3786	1.3256	1.000	0.9615	ug/mL	-4	20	m
Benzo(a)pyrene	1.2531	1.1779	1.000	0.9399	ug/mL	-6	20	
Indeno(1,2,3-cd)pyrene	1.5672	1.4401	1.000	0.9189	ug/mL	-8	20	
Dibenz(a,h)anthracene	1.2427	1.1897	1.000	0.9574	ug/mL	-4	20	
Benzo(g,h,i)perylene	1.3544	1.2837	1.000	0.9478	ug/mL	-5	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : CCV3 IDF : 1.0
Seqnum : 517423001003.1 File : ujk03 Time : 20-OCT-2007 18:39
Cal : 517409623001 Caldate : 11-OCT-2007
Standards: S7215

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0686	1.0651	0.5000	0.4984	ug/mL	0	20	0.0500	m
2-Methylnaphthalene	0.6526	0.6534	0.5000	0.5006	ug/mL	0	20	0.0500	
Acenaphthylene	1.7941	1.6383	0.5000	0.4566	ug/mL	-9	20	0.0500	
Acenaphthene	1.1083	1.0302	0.5000	0.4648	ug/mL	-7	20	0.0500	
Fluorene	1.3217	1.2406	0.5000	0.4693	ug/mL	-6	20	0.0500	
Phenanthrene	1.2702	1.2428	0.5000	0.4892	ug/mL	-2	20	0.0500	
Anthracene	1.1682	1.0505	0.5000	0.4496	ug/mL	-10	20	0.0500	m
Fluoranthene	1.1941	1.1037	0.5000	0.4622	ug/mL	-8	20	0.0500	
Pyrene	1.5206	1.7283	0.5000	0.5683	ug/mL	14	20	0.0500	
Benzo(a)anthracene	1.0011	1.0239	0.5000	0.5114	ug/mL	2	20	0.0500	
Chrysene	1.1289	1.1057	0.5000	0.4897	ug/mL	-2	20	0.0500	m
Benzo(b)fluoranthene	1.2717	1.3858	0.5000	0.5448	ug/mL	9	20	0.0500	
Benzo(k)fluoranthene	1.4833	1.4055	0.5000	0.4738	ug/mL	-5	20	0.0500	m
Benzo(a)pyrene	0.9957	1.1615	0.5000	0.5833	ug/mL	17	20	0.0500	m
Indeno(1,2,3-cd)pyrene	1.0020	0.9191	0.5000	0.4586	ug/mL	-8	20	0.0500	m
Dibenz(a,h)anthracene	0.7745	0.7798	0.5000	0.5034	ug/mL	1	20	0.0500	m
Benzo(g,h,i)perylene	1.0344	0.8670	0.5000	0.4191	ug/mL	-16	20	0.0500	m
Nitrobenzene-d5	0.1456	0.1844	0.5000	0.6331	ug/mL	**27**	20	0.0500	c+ m
2-Fluorobiphenyl	1.2699	1.2183	0.5000	0.4797	ug/mL	-4	20	0.0500	
Terphenyl-d14	1.0734	1.3053	0.5000	0.6080	ug/mL	**22**	20	0.0500	c+

Analyst: AD Date: 10/22/07 Reviewer: SHD Date: 10/22/07

+=high bias c=CCV m=manual integration

517423001003.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV 0.5/2.5 UG/ML IDF : 1.0
Seqnum : 527419498005.1 File : vji05 Time : 18-OCT-2007 09:36
Cal : 527398033002 Caldate : 03-OCT-2007
Standards: S7215

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1080	1.1135	0.5000	0.5025	ug/mL	1	20	0.0500	
2-Methylnaphthalene	0.5723	0.6412	0.5000	0.5743	ug/mL	15	20	0.0500	
Acenaphthylene	1.7819	1.8483	0.5000	0.5186	ug/mL	4	20	0.0500	
Acenaphthene	1.1211	1.1905	0.5000	0.5310	ug/mL	6	20	0.0500	
Fluorene	1.2540	1.3005	0.5000	0.5186	ug/mL	4	20	0.0500	
Phenanthrene	1.0910	1.2913	0.5000	0.5918	ug/mL	18	20	0.0500	
Anthracene	1.2425	1.2307	0.5000	0.4952	ug/mL	-1	20	0.0500	m
Fluoranthene	1.3265	1.3531	0.5000	0.5100	ug/mL	2	20	0.0500	
Pyrene	1.2944	1.3094	0.5000	0.5058	ug/mL	1	20	0.0500	
Benzo(a)anthracene	1.0000	1.0610	0.5000	0.5305	ug/mL	6	20	0.0500	
Chrysene	1.3701	1.2139	0.5000	0.4430	ug/mL	-11	20	0.0500	m
Benzo(b)fluoranthene	1.0442	1.1828	0.5000	0.5664	ug/mL	13	20	0.0500	
Benzo(k)fluoranthene	1.6292	1.3785	0.5000	0.4231	ug/mL	-15	20	0.0500	
Benzo(a)pyrene	1.2408	1.2006	0.5000	0.4838	ug/mL	-3	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1472	1.2259	0.5000	0.5343	ug/mL	7	20	0.0500	
Dibenz(a,h)anthracene	0.9171	0.9957	0.5000	0.5428	ug/mL	9	20	0.0500	
Benzo(g,h,i)perylene	0.9492	1.0556	0.5000	0.5560	ug/mL	11	20	0.0500	
Nitrobenzene-d5	0.2211	0.2171	0.5000	0.4911	ug/mL	-2	20	0.0500	m
2-Fluorobiphenyl	1.1925	1.2354	0.5000	0.5180	ug/mL	4	20	0.0500	
Terphenyl-d14	0.8984	0.9163	0.5000	0.5099	ug/mL	2	20	0.0500	

AD 10/22/07 [Nitrobenzene-d5]: Reintegrated to avoid printing error and resent improperly resulting in extra quant report at end of original with a different reading for nitrobenzene-d5 ONLY. Both integrations are appropriate and both are w/in QC limits (-2%/-3%D, respectively). Does not affect data - no need to reprocess. [general version]

Analyst: SHD Date: 10/22/07 Reviewer: AD Date: 10/22/07

m=manual integration

527419498005.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03
Seqnum : 527425348002.3
Cal : 527398033002
Standards: S7216

Run Name : CCV 1.0/5.0 PPM
File : vjm02
Caldate : 03-OCT-2007

IDF : 1.0
Time : 22-OCT-2007 09:29

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1080	1.0785	1.000	0.9734	ug/mL	-3	20	0.0500	
2-Methylnaphthalene	0.5723	0.6640	1.000	1.056	ug/mL	6	20	0.0500	
Acenaphthylene	1.7819	1.8527	1.000	1.040	ug/mL	4	20	0.0500	
Acenaphthene	1.1211	1.1817	1.000	1.054	ug/mL	5	20	0.0500	
Fluorene	1.2540	1.3363	1.000	1.066	ug/mL	7	20	0.0500	
Phenanthrene	1.0910	1.2957	1.000	1.188	ug/mL	19	20	0.0500	
Anthracene	1.2425	1.2282	1.000	0.9885	ug/mL	-1	20	0.0500	m
Fluoranthene	1.3265	1.3214	1.000	0.9962	ug/mL	0	20	0.0500	
Pyrene	1.2944	1.3407	1.000	1.036	ug/mL	4	20	0.0500	
Benzo(a)anthracene	1.0000	1.1029	1.000	1.103	ug/mL	10	20	0.0500	
Chrysene	1.3701	1.2700	1.000	0.9269	ug/mL	-7	20	0.0500	m
Benzo(b)fluoranthene	1.0442	1.3326	1.000	1.276	ug/mL	**28**	20	0.0500	c+ ***
Benzo(k)fluoranthene	1.6292	1.5057	1.000	0.9242	ug/mL	-8	20	0.0500	m
Benzo(a)pyrene	1.2408	1.2927	1.000	1.042	ug/mL	4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1472	1.2132	1.000	1.058	ug/mL	6	20	0.0500	
Dibenz(a,h)anthracene	0.9171	1.0152	1.000	1.107	ug/mL	11	20	0.0500	
Benzo(g,h,i)perylene	0.9492	0.9802	1.000	1.033	ug/mL	3	20	0.0500	
Nitrobenzene-d5	0.2211	0.1918	1.000	0.8676	ug/mL	-13	20	0.0500	m
2-Fluorobiphenyl	1.1925	1.2997	1.000	1.090	ug/mL	9	20	0.0500	
Terphenyl-d14	0.8984	0.9787	1.000	1.089	ug/mL	9	20	0.0500	

Analyst: SHD Date: 10/22/07 Reviewer: AD Date: 10/22/07

+=high bias c=CCV m=manual integration

527425348002.3

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA07 Run Name : PAHSIM IDF : 1.0
Seqnum : 567421018002.1 File : zjj02 Time : 19-OCT-2007 09:29
Cal : 567395873001 Caldate : 01-OCT-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.3101	1.3381	1.000	1.021	ug/mL	2	20	0.0500	
2-Methylnaphthalene	0.5830	0.4618	1.000	0.7921	ug/mL	**-21**	20	0.0500	c- ***
Acenaphthylene	1.6844	1.7924	1.000	1.064	ug/mL	6	20	0.0500	
Acenaphthene	1.0714	1.0596	1.000	0.9890	ug/mL	-1	20	0.0500	
Fluorene	1.1816	1.2128	1.000	1.026	ug/mL	3	20	0.0500	
Phenanthrene	1.2646	1.0785	1.000	0.8528	ug/mL	-15	20	0.0500	
Anthracene	1.0887	1.3202	1.000	1.213	ug/mL	**21**	20	0.0500	c+ m ***
Fluoranthene	1.1490	1.2062	1.000	1.050	ug/mL	5	20	0.0500	
Pyrene	1.2941	1.2840	1.000	0.9922	ug/mL	-1	20	0.0500	
Benzo(a)anthracene	0.9500	0.9049	1.000	0.9525	ug/mL	-5	20	0.0500	
Chrysene	1.1941	1.3865	1.000	1.161	ug/mL	16	20	0.0500	m
Benzo(b)fluoranthene	1.0766	1.1280	1.000	1.048	ug/mL	5	20	0.0500	
Benzo(k)fluoranthene	1.3829	1.6787	1.000	1.214	ug/mL	**21**	20	0.0500	c+ m ***
Benzo(a)pyrene	1.1379	1.2935	1.000	1.034	ug/mL	3	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.6297	1.7848	1.000	1.095	ug/mL	10	20	0.0500	
Dibenz(a,h)anthracene	1.1271	1.3874	1.000	1.231	ug/mL	**23**	20	0.0500	c+ ***
Benzo(g,h,i)perylene	1.5017	1.6018	1.000	1.067	ug/mL	7	20	0.0500	m
Nitrobenzene-d5	0.3280	0.3465	1.000	1.057	ug/mL	6	20	0.0500	m
2-Fluorobiphenyl	1.2249	0.9736	1.000	0.7949	ug/mL	**-21**	20	0.0500	c-
Terphenyl-d14	1.0426	0.9769	1.000	0.9369	ug/mL	-6	20	0.0500	

Analyst: SHD Date: 10/22/07 Reviewer: AD Date: 10/22/07

+=high bias -=low bias c=CCV m=manual integration

567421018002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198380 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Run Name : CCV 1.0/5.0 PPM IDF : 1.0
Seqnum : 577425349002.1 File : sjm02 Time : 22-OCT-2007 09:32
Cal : 577399499001 Caldate : 04-OCT-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1050	1.0818	1.000	0.9790	ug/mL	-2	20	0.0500	
2-Methylnaphthalene	0.7218	0.6925	1.000	0.9594	ug/mL	-4	20	0.0500	m
Acenaphthylene	2.0045	2.0571	1.000	1.026	ug/mL	3	20	0.0500	
Acenaphthene	1.1214	1.1967	1.000	1.067	ug/mL	7	20	0.0500	
Fluorene	1.3413	1.4973	1.000	1.116	ug/mL	12	20	0.0500	
Phenanthrene	1.2113	1.1089	1.000	0.9154	ug/mL	-8	20	0.0500	
Anthracene	1.1097	1.0013	1.000	0.9023	ug/mL	-10	20	0.0500	m
Fluoranthene	1.3571	1.2560	1.000	0.9255	ug/mL	-7	20	0.0500	
Pyrene	1.2932	1.6449	1.000	1.272	ug/mL	**27**	20	0.0500	c+ ***
Benzo(a)anthracene	1.1285	1.1885	1.000	1.053	ug/mL	5	20	0.0500	
Chrysene	1.1215	1.1882	1.000	1.060	ug/mL	6	20	0.0500	m
Benzo(b)fluoranthene	1.3266	1.3410	1.000	1.011	ug/mL	1	20	0.0500	
Benzo(k)fluoranthene	1.3786	1.3749	1.000	0.9973	ug/mL	0	20	0.0500	m
Benzo(a)pyrene	1.2531	1.2109	1.000	0.9663	ug/mL	-3	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.5672	1.3880	1.000	0.8857	ug/mL	-11	20	0.0500	
Dibenz(a,h)anthracene	1.2427	1.1235	1.000	0.9041	ug/mL	-10	20	0.0500	
Benzo(g,h,i)perylene	1.3544	1.1534	1.000	0.8516	ug/mL	-15	20	0.0500	
Nitrobenzene-d5	0.2465	0.2203	1.000	0.8935	ug/mL	-11	20	0.0500	m
2-Fluorobiphenyl	1.3913	1.5468	1.000	1.112	ug/mL	11	20	0.0500	
Terphenyl-d14	1.0314	1.2803	1.000	1.241	ug/mL	**24**	20	0.0500	c+

Analyst: SHD Date: 10/22/07 Reviewer: AD Date: 10/22/07
+=high bias c=CCV m=manual integration

577425349002.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517423001

Date : 10/20/07
Sequence : MSBNA02 ujk

Reference : ujk03
Analyzed : 10/20/07 18:39

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	3069	8.29	13223	9.86	7509	12.14	10064	14.10	6434	17.67	3647	19.66
		LOWER LIMIT	1535	7.79	6612	9.36	3755	11.64	5032	13.60	3217	17.17	1824	19.16
		UPPER LIMIT	6138	8.79	26446	10.36	15018	12.64	20128	14.60	12868	18.17	7294	20.16
003	CCV	CCV3	3069	8.29	13223	9.86	7509	12.14	10064	14.10	6434	17.67	3647	19.66
004	SAMPLE	198282-002	2685	8.29	12983	9.86	7392	12.14	9594	14.09	6056	17.67	3885	19.66
005	SAMPLE	198294-009	2891	8.28	13762	9.86	8412	12.14	11223	14.10	7481	17.67	4546	19.66
006	SAMPLE	198294-015	3356	8.29	15769	9.86	10492	12.14	13413	14.10	8522	17.68	4724	19.66
007	SAMPLE	198380-002	2915	8.29	12733	9.86	7813	12.14	11621	14.10	7781	17.67	5533	19.66

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 527419498

Date : 10/18/07
Sequence : MSBNA03 vji

Reference : vji05
Analyzed : 10/18/07 09:36

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	71809	7.35	296319	8.96	177794	11.25	250812	13.20	261772	16.65	267081	18.37
		LOWER LIMIT	35905	6.85	148160	8.46	88897	10.75	125406	12.70	130886	16.15	133541	17.87
		UPPER LIMIT	143618	7.85	592638	9.46	355588	11.75	501624	13.70	523544	17.15	534162	18.87
005	CCV	CCV 0.5/2.5 UG/ML	71809	7.35	296319	8.96	177794	11.25	250812	13.20	261772	16.65	267081	18.37
006	SAMPLE	198218-011	78819	7.34	299705	8.96	182721	11.25	258317	13.20	272042	16.65	232984	18.37
007	SAMPLE	198218-015	76086	7.34	290031	8.96	180291	11.25	252151	13.20	276965	16.65	276249	18.37
008	SAMPLE	198218-014	74624	7.35	281718	8.96	175585	11.25	245032	13.20	263138	16.65	267123	18.37
009	SAMPLE	198218-010	71789	7.35	273948	8.96	169534	11.25	233145	13.20	258666	16.65	257524	18.37
010	SAMPLE	198218-012	71009	7.35	271050	8.96	173545	11.25	242739	13.20	262101	16.65	244301	18.37
011	SAMPLE	198218-009	73436	7.34	270644	8.96	169503	11.25	237556	13.20	222411	16.65	174713	18.38
012	SAMPLE	198218-013	71733	7.34	274609	8.95	169023	11.25	240788	13.20	219294	16.65	177983	18.38
013	SAMPLE	198218-016	72361	7.34	273914	8.95	167747	11.25	238086	13.20	237958	16.65	195819	18.37
014	BLANK	QC411034	65026	7.34	234190	8.96	145658	11.25	200777	13.20	217021	16.65	202318	18.37
015	LCS	QC411035	64759	7.34	236810	8.96	145894	11.25	209034	13.20	224250	16.65	208236	18.37
016	MS	QC411036	66787	7.34	246251	8.96	154522	11.25	218023	13.20	234972	16.65	217812	18.37
017	MSD	QC411037	63775	7.34	234742	8.96	147556	11.25	206146	13.20	224406	16.64	207237	18.37
018	SAMPLE	198302-001	61991	7.34	230842	8.96	159492	11.25	227123	13.20	239977	16.66	193276	18.39
019	SAMPLE	198379-006	65623	7.34	249408	8.96	156664	11.25	215570	13.20	230160	16.65	211916	18.37
020	SAMPLE	198379-007	66773	7.34	260699	8.96	162256	11.25	218876	13.20	228419	16.65	205968	18.37

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 527425348

Date : 10/22/07
Sequence : MSBNA03 vjm

Reference : vjm02
Analyzed : 10/22/07 09:29

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	42494	7.35	180173	8.96	106812	11.25	149289	13.20	148792	16.64	129477	18.37
		LOWER LIMIT	21247	6.85	90087	8.46	53406	10.75	74645	12.70	74396	16.14	64739	17.87
		UPPER LIMIT	84988	7.85	360346	9.46	213624	11.75	298578	13.70	297584	17.14	258954	18.87
002	CCV	CCV 1.0/5.0 PPM	42494	7.35	180173	8.96	106812	11.25	149289	13.20	148792	16.64	129477	18.37
003	SAMPLE	198379-015	47576	7.35	177965	8.96	110648	11.25	156155	13.20	155617	16.65	133454	18.37
004	SAMPLE	198302-006	37280	7.34	151478	8.95	95339	11.25	145324	13.20	148197	16.65	127427	18.38
005	SAMPLE	198380-001	43465	7.34	162632	8.96	97937	11.25	141902	13.20	137592	16.64	121542	18.37
006	SAMPLE	198301-002	49666	7.35	173223	8.95	104684	11.25	163671	13.19	146753	16.64	127251	18.37
007	SAMPLE	198301-003	41402	7.37	162779	8.96	99092	11.25	153987	13.20	144339	16.64	131872	18.37
008	SAMPLE	198257-002	44525	7.34	163877	8.96	101264	11.25	163307	13.19	156001	16.64	134783	18.37
009	SAMPLE	198257-003	40498	7.34	160453	8.96	95358	11.25	146047	13.20	138954	16.64	127558	18.37
010	SAMPLE	198257-004	40140	7.34	152059	8.95	92899	11.25	128810	13.19	134625	16.64	119711	18.37
011	SAMPLE	198257-008	36806	7.34	140298	8.96	86426	11.25	132334	13.20	129242	16.64	116921	18.37
012	SAMPLE	198257-009	38582	7.34	151688	8.96	90056	11.25	129724	13.20	135711	16.64	125571	18.37
013	SAMPLE	198257-005	36992	7.35	150545	8.96	91919	11.25	127612	13.20	133477	16.64	113125	18.37
014	SAMPLE	198257-001	37092	7.36	149357	8.96	94009	11.25	131642	13.20	134395	16.64	108096	18.37

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 567421018

Date : 10/19/07
Sequence : MSBNA07 zjj

Reference : zjj02
Analyzed : 10/19/07 09:29

#	Type	Sample ID	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	235759	6.34	128016	8.76	187144	10.95	183391	14.82	165563	16.58
		LOWER LIMIT	117880	5.84	64008	8.26	93572	10.45	91696	14.32	82782	16.08
		UPPER LIMIT	471518	6.84	256032	9.26	374288	11.45	366782	15.32	331126	17.08
002	CCV	PAHSIM	235759	6.34	128016	8.76	187144	10.95	183391	14.82	165563	16.58
003	BLANK	QC411034	232190	6.34	118660	8.76	165209	10.95	159652	14.82	152407	16.58
004	BLANK	QC411201	225008	6.34	119171	8.76	160418	10.95	149980	14.82	140077	16.58
005	LCS	QC411202	230291	6.34	123989	8.76	153793	10.95	168575	14.82	148166	16.58
006	SAMPLE	198380-002	221020	6.34	117700	8.76	166576	10.95	173620	14.82	177431	16.58
007	SAMPLE	198379-007	221513	6.34	119607	8.76	157924	10.95	166084	14.82	167824	16.58
008	SAMPLE	198302-003	234475	6.34	131190	8.76	189490	10.94	181467	14.83	185871	16.59
009	SAMPLE	198302-004	229067	6.33	137892	8.76	196163	10.94	184493	14.83	187656	16.60
010	SAMPLE	198382-001	213447	6.34	115540	8.76	167394	10.94	178284	14.82	176688	16.59

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 577425349

Date : 10/22/07
Sequence : MSBNA08 sjm

Reference : sjm02
Analyzed : 10/22/07 09:32

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	36336	9.05	133196	10.66	80443	12.89	148254	14.79	112202	18.35	89293	20.30
		LOWER LIMIT	18168	8.55	66598	10.16	40222	12.39	74127	14.29	56101	17.85	44647	19.80
		UPPER LIMIT	72672	9.55	266392	11.16	160886	13.39	296508	15.29	224404	18.85	178586	20.80
002	CCV	CCV 1.0/5.0 PPM	36336	9.05	133196	10.66	80443	12.89	148254	14.79	112202	18.35	89293	20.30
003	BLANK	QC411433	27504	9.06	103172	10.66	61322	12.89	115649	14.79	84875	18.36	68243	20.30
004	LCS	QC411434	29958	9.05	110488	10.66	65714	12.89	125403	14.79	95858	18.36	74561	20.30
005	SAMPLE	198414-002	28624	9.06	113510	10.66	74207	12.89	135422	14.79	100395	18.36	84562	20.29
006	SAMPLE	198414-001	29814	9.06	121079	10.66	77692	12.89	135592	14.79	100557	18.36	87578	20.30
007	SAMPLE	198414-003	33853	9.06	133923	10.66	80553	12.89	138595	14.79	105153	18.36	90477	20.30
008	SAMPLE	198414-004	35781	9.06	141201	10.66	82932	12.89	143372	14.79	105788	18.36	86640	20.30
009	SAMPLE	198414-005	36166	9.06	140647	10.66	83448	12.89	141870	14.79	106130	18.36	84501	20.30
010	SAMPLE	198414-006	35868	9.06	139024	10.66	83473	12.89	143006	14.79	98828	18.36	77609	20.30
011	SAMPLE	198414-007	35256	9.06	137270	10.66	81277	12.89	139528	14.79	98558	18.36	76018	20.30
012	MSS	198257-006	31765	9.06	123021	10.66	74427	12.89	127352	14.79	91194	18.36	67995	20.30
013	MS	QC411435	32209	9.06	124577	10.66	74567	12.89	126214	14.79	89011	18.36	64860	20.30
014	MSD	QC411436	31881	9.06	122103	10.66	73909	12.89	125407	14.79	82534	18.36	59919	20.30

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517409623

Instrument : MSBNA02 Begun : 10/11/07 11:03
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	ujb01	TUN	DFTPP/PEM 50UG/ML			10/11/07 11:03	1.0	1
002	ujb02	CCV	0.5/2.5 UG/ML			10/11/07 11:31	1.0	2
003	ujb03	TUN	DFTPP/PEM 50UG/ML			10/11/07 15:08	1.0	1
004	ujb04	TUN	DFTPP/PEM 50UG/ML			10/11/07 16:12	1.0	1
005	ujb05	CCV	PAHDIOX			10/11/07 17:29	1.0	2
006	ujb06	X	IB			10/11/07 18:07	1.0	
007	ujb07	ICAL	0.1/0.5PPM			10/11/07 18:44	1.0	3
008	ujb08	ICAL	0.2/1.0PPM			10/11/07 19:21	1.0	4
009	ujb09	ICAL	0.5/2.5PPM			10/11/07 20:04	1.0	2
010	ujb10	ICAL	1.0/5.0PPM			10/11/07 20:42	1.0	5
011	ujb11	ICAL	2.0/10.0PPM			10/11/07 21:19	1.0	6
012	ujb12	ICAL	5.0/25.0PPM			10/11/07 22:02	1.0	7
013	ujb13	ICAL	10.0/50.0PPM			10/11/07 22:42	1.0	8
014	ujb14	ICV	1/10PPM			10/11/07 23:25	1.0	9

Analyst: LLH Date: 10/12/07 Reviewer: CW Date: 10/12/07

Standards used: 1=S7320 2=S7215 3=S7213 4=S7214 5=S7216 6=S7217 7=S7218 8=S7219 9=S6709

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517423001

Instrument : MSBNA02
Method : EPA 8270C, EPA 8270C-SIM
Begun : 10/20/07 18:01
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	ujk01	TUN	DFTPP 50NG			10/20/07 18:01	1.0	1
002	ujk02	TUN	DFTPP 50NG			10/20/07 18:17	1.0	1
003	ujk03	CCV	CCV3			10/20/07 18:39	1.0	2
004	ujk04	SAMPLE	198282-002	Water	130677	10/20/07 19:47	1.0	3
005	ujk05	SAMPLE	198294-009	Water	130677	10/20/07 20:23	1.0	3
006	ujk06	SAMPLE	198294-015	Water	130677	10/20/07 21:05	1.0	3
007	ujk07	SAMPLE	198380-002	Soil	130658	10/20/07 21:43	1.0	3

Standards used: 1=S7320 2=S7215 3=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527398033

Instrument : MSBNA03 Begun : 10/03/07 09:53
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vj301	TUN	DFTPP/PEM 50UG/ML			10/03/07 09:53	1.0	1
002	vj302	TUN	DFTPP/PEM 50UG/ML			10/03/07 10:30	1.0	1
003	vj303	TUN	DFTPP/PEM 50UG/ML			10/03/07 11:37	1.0	1
004	vj304	CCV	2/10UG/ML RTCHECK			10/03/07 11:58	1.0	2
005	vj305	TUN	DFTPP/PEM 50UG/ML			10/03/07 13:21	1.0	1
006	vj306	TUN	DFTPP/PEM 50UG/ML			10/03/07 13:48	1.0	1
007	vj307	TUN	DFTPP/PEM 50UG/ML			10/03/07 14:04	1.0	1
008	vj308	TUN	DFTPP/PEM 50UG/ML			10/03/07 14:30	1.0	1
010	vj310	TUN	DFTPP/PEM 50UG/ML			10/03/07 15:08	1.0	1
011	vj311	ICAL	0.1/0.5 UG/ML			10/03/07 15:47	1.0	3
012	vj312	ICAL	0.2/1.0 UG/ML			10/03/07 16:20	1.0	4
013	vj313	ICAL	0.5/2.5 UG/ML			10/03/07 16:55	1.0	5
014	vj314	TUN	DFTPP/PEM 50UG/ML			10/03/07 17:27	1.0	1
015	vj315	ICAL	0.1/0.5UG/ML			10/03/07 17:53	1.0	3
016	vj316	ICAL	0.2/1.0UG/ML			10/03/07 18:27	1.0	4
017	vj317	ICAL	0.5/2.5UG/ML			10/03/07 19:04	1.0	5
018	vj318	ICAL	1.0/5.0UG/ML			10/03/07 19:40	1.0	6
019	vj319	ICAL	2.0/10UG/ML			10/03/07 20:13	1.0	2
020	vj320	ICAL	5.0/25UG/ML			10/03/07 20:47	1.0	7
021	vj321	ICAL	10/50UG/ML			10/03/07 21:21	1.0	8
022	vj322	TUN	DFTPP/PEM 50UG/ML			10/03/07 23:07	1.0	1
023	vj323	ICV	1/10 UG/ML			10/03/07 23:26	1.0	9

AD 10/03/07 : Sequence entry error - skipped file vj309.

AD 10/03/07 : ICAL restarted due to grouping start for fluorene.

AD 10/04/07 : Baseline of manual integration for nitrobenzene-d5 does not display in all spectal pages of ICAL files. Integrations of this compound are consistent and appropriate.

Analyst: AD Date: 10/04/07 Reviewer: LW Date: 10/04/07

Standards used: 1=S7320 2=S7217 3=S7213 4=S7214 5=S7215 6=S7216 7=S7218 8=S7219 9=S6709

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527419498

Instrument : MSBNA03
Method : EPA 8270C, EPA 8270C-SIM
Begun : 10/18/07 07:38
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vji01	TUN	DFTPP/PEM 50UG/ML			10/18/07 07:38	1.0	1
002	vji02	TUN	DFTPP/PEM 50UG/ML			10/18/07 08:25	1.0	1
003	vji03	TUN	DFTPP/PEM 50UG/ML			10/18/07 08:55	1.0	1
004	vji04	TUN	DFTPP/PEM 50UG/ML			10/18/07 09:14	1.0	1
005	vji05	CCV	CCV 0.5/2.5 UG/ML			10/18/07 09:36	1.0	2
006	vji06	SAMPLE	198218-011	Soil	130608	10/18/07 10:33	1.0	3
007	vji07	SAMPLE	198218-015	Soil	130608	10/18/07 11:06	1.0	3
008	vji08	SAMPLE	198218-014	Soil	130608	10/18/07 11:40	1.0	3
009	vji09	SAMPLE	198218-010	Soil	130608	10/18/07 12:15	1.0	3
010	vji10	SAMPLE	198218-012	Soil	130608	10/18/07 12:51	1.0	3
011	vji11	SAMPLE	198218-009	Soil	130608	10/18/07 13:27	1.0	3
012	vji12	SAMPLE	198218-013	Soil	130608	10/18/07 14:03	1.0	3
013	vji13	SAMPLE	198218-016	Soil	130608	10/18/07 14:40	1.0	3
014	vji14	BLANK	QC411034	Soil	130658	10/18/07 15:36	1.0	3
015	vji15	LCS	QC411035	Soil	130658	10/18/07 16:10	1.0	3
016	vji16	MS	QC411036	Soil	130658	10/18/07 16:45	1.0	3
017	vji17	MSD	QC411037	Soil	130658	10/18/07 17:21	1.0	3
018	vji18	SAMPLE	198302-001	Water	130632	10/18/07 17:54	1.0	3
019	vji19	SAMPLE	198379-006	Soil	130658	10/18/07 18:29	1.0	3
020	vji20	SAMPLE	198379-007	Water	130632	10/18/07 19:04	1.0	3
021	vji21	TUN	DFTPP/PEM 50UG/ML			10/18/07 22:02	1.0	1
022	vji22	TUN	DFTPP/PEM 50UG/ML			10/18/07 22:20	1.0	1

Standards used: 1=S7320 2=S7215 3=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527425348

Instrument : MSBNA03
Method : EPA 8270C, EPA 8270C-SIM
Begun : 10/22/07 09:08
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vjm01	TUN	DFTPP/PEM 50UG/ML			10/22/07 09:08	1.0	1
002	vjm02	CCV	CCV 1.0/5.0 PPM			10/22/07 09:29	1.0	2
003	vjm03	SAMPLE	198379-015	Soil	130758	10/22/07 10:04	1.0	3
004	vjm04	SAMPLE	198302-006	Water	130756	10/22/07 10:37	1.0	3
005	vjm05	SAMPLE	198380-001	Soil	130758	10/22/07 11:14	1.0	3
006	vjm06	SAMPLE	198301-002	Soil	130758	10/22/07 12:51	20.0	3
007	vjm07	SAMPLE	198301-003	Soil	130758	10/22/07 13:25	200.0	3
008	vjm08	SAMPLE	198257-002	Soil	130758	10/22/07 14:01	1.0	3
009	vjm09	SAMPLE	198257-003	Soil	130758	10/22/07 14:36	1.0	3
010	vjm10	SAMPLE	198257-004	Soil	130758	10/22/07 15:10	1.0	3
011	vjm11	SAMPLE	198257-008	Soil	130758	10/22/07 15:47	1.0	3
012	vjm12	SAMPLE	198257-009	Soil	130758	10/22/07 16:21	1.0	3
013	vjm13	SAMPLE	198257-005	Soil	130758	10/22/07 16:55	3.0	3
014	vjm14	SAMPLE	198257-001	Soil	130758	10/22/07 17:29	20.0	3

Standards used: 1=S7320 2=S7216 3=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 567395873

Instrument : MSBNA07 Begun : 10/01/07 21:53
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	zj101	CCV	RTCHECK			10/01/07 21:53	1.0	1
002	zj102	CCV	RTCHECK			10/01/07 22:43	1.0	1
003	zj103	TUN	DFTPP/PEM 50UG/ML			10/01/07 23:11	1.0	2
004	zj104	TUN	DFTPP/PEM 50UG/ML			10/01/07 23:33	1.0	2
005	zj105	ICAL	0.1/0.5PPM			10/01/07 23:51	1.0	3
006	zj106	ICAL	0.2/1.0PPM			10/02/07 00:22	1.0	4
007	zj107	ICAL	0.5/2.5PPM			10/02/07 00:54	1.0	5
008	zj108	ICAL	1.0/5.0PPM			10/02/07 01:25	1.0	6
009	zj109	ICAL	2.0/10.0PPM			10/02/07 01:55	1.0	1
010	zj110	ICAL	5.0/25.0PPM			10/02/07 02:26	1.0	7
011	zj111	ICAL	10.0/50.0PPM			10/02/07 02:57	1.0	8
012	zj112	ICV	1.0/10.0PPM ICV			10/02/07 03:26	1.0	9

Analyst: SHD Date: 10/02/07 Reviewer: LW Date: 10/02/07

Standards used: 1=S7217 2=S7320 3=S7213 4=S7214 5=S7215 6=S7216 7=S7218 8=S7219 9=S6709

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 567421018

Instrument : MSBNA07
Method : EPA 8270C, EPA 8270C-SIM
Begun : 10/19/07 08:58
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	zjj01	TUN	DFTPP 50NG			10/19/07 08:58	1.0	1
002	zjj02	CCV	PAHSIM			10/19/07 09:29	1.0	2
003	zjj03	BLANK	QC411034	Soil	130658	10/19/07 10:38	1.0	3
004	zjj04	BLANK	QC411201	Soil	130698	10/19/07 11:10	1.0	3
005	zjj05	LCS	QC411202	Soil	130698	10/19/07 11:40	1.0	3
006	zjj06	SAMPLE	198380-002	Soil	130658	10/19/07 12:34	1.0	3
007	zjj07	SAMPLE	198379-007	Water	130632	10/19/07 13:05	1.0	3
008	zjj08	SAMPLE	198302-003	Water	130677	10/19/07 13:35	1.0	3
009	zjj09	SAMPLE	198302-004	Water	130677	10/19/07 14:05	1.0	3
010	zjj10	SAMPLE	198382-001	Soil	130608	10/19/07 14:35	8.33	3
011	zjj11	TUN	DFTPP 50NG			10/19/07 15:14	1.0	1
012	zjj12	CCV	DFTPP 50NG			10/19/07 15:32	1.0	4
013	zjj13	TUN	DFTPP 50NG			10/19/07 16:09	1.0	1
014	zjj14	CCV	DFTPP 50NG			10/19/07 16:27	1.0	4
015	zjj15	TUN	DFTPP 50NG			10/19/07 18:37	1.0	1
016	zjj16	CCV	CCV#5			10/19/07 18:58	1.0	5
017	zjj17	TUN	DFTPP 50NG			10/19/07 19:35	1.0	1
018	zjj18	CCV	CCV#6			10/19/07 19:53	1.0	4
019	zjj19	TUN	DFTPP 50NG			10/19/07 20:40	1.0	1
020	zjj20	CCV	CCV#6			10/19/07 20:58	1.0	4

Standards used: 1=S7320 2=S7216 3=S7386 4=S7226 5=S7225

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577399499

Instrument : MSBNA08 Begun : 10/04/07 10:19
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	sj402	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:19	1.0	1
003	sj403	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:39	1.0	1
004	sj404	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:53	1.0	1
005	sj405	CCV	CCV RT CHECK			10/04/07 12:22	1.0	2
006	sj406	CCV	CCV RT CHECK			10/04/07 13:22	1.0	3
007	sj407	TUN	DFTPP			10/04/07 14:02	1.0	1
008	sj408	ICAL	ICAL 1			10/04/07 14:22	1.0	4
009	sj409	ICAL	ICAL 2			10/04/07 14:56	1.0	5
010	sj410	ICAL	ICAL 3			10/04/07 15:30	1.0	3
011	sj411	ICAL	ICAL 4			10/04/07 16:04	1.0	2
012	sj412	ICAL	ICAL 5			10/04/07 16:39	1.0	6
013	sj413	ICAL	ICAL 6			10/04/07 17:12	1.0	7
014	sj414	ICAL	ICAL 7			10/04/07 17:48	1.0	8
015	sj415	ICV	ICV			10/04/07 18:23	1.0	9
016	sj416	TUN	DFTPP			10/04/07 18:58	1.0	1
017	sj417	CCV	CCV 4			10/04/07 19:18	1.0	2
018	sj418	SAMPLE	198013-014	Soil	130099	10/04/07 19:58	1.0	10
019	sj419	BLANK	QC408688	Soil	130099	10/04/07 20:32	1.0	10
020	sj420	LCS	QC408689	Soil	130099	10/04/07 21:07	1.0	10
021	sj421	SAMPLE	198013-016	Soil	130099	10/04/07 21:42	1.0	10
022	sj422	MSS	198013-018	Soil	130099	10/04/07 22:16	1.0	10
023	sj423	MS	QC408690	Soil	130099	10/04/07 22:51	1.0	10
024	sj424	MSD	QC408691	Soil	130099	10/04/07 23:25	1.0	10
025	sj425	SAMPLE	198013-008	Soil	130099	10/04/07 23:59	3.0	10
026	sj426	SAMPLE	198013-017	Soil	130099	10/05/07 00:33	1.0	10
027	sj427	SAMPLE	198013-011	Soil	130099	10/05/07 01:07	1.0	10
028	sj428	SAMPLE	198004-009	Water	130094	10/05/07 01:41	1.0	10

Standards used: 1=S7320 2=S7216 3=S7215 4=S7213 5=S7214 6=S7217 7=S7218 8=S7219 9=S6709 10=S7212

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577425349

Instrument : MSBNA08
Method : EPA 8270C, EPA 8270C-SIM
Begun : 10/22/07 09:09
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	sjm01	TUN	DFTPP/PEM 50UG/ML			10/22/07 09:09	1.0	1
002	sjm02	CCV	CCV 1.0/5.0 PPM			10/22/07 09:32	1.0	2
003	sjm03	BLANK	QC411433	Soil	130758	10/22/07 10:06	1.0	3
004	sjm04	LCS	QC411434	Soil	130758	10/22/07 10:40	1.0	3
005	sjm05	SAMPLE	198414-002	Soil	130758	10/22/07 11:15	1.0	3
006	sjm06	SAMPLE	198414-001	Soil	130758	10/22/07 11:49	5.0	3
007	sjm07	SAMPLE	198414-003	Soil	130758	10/22/07 12:23	5.0	3
008	sjm08	SAMPLE	198414-004	Soil	130758	10/22/07 12:56	5.0	3
009	sjm09	SAMPLE	198414-005	Soil	130758	10/22/07 13:31	10.0	3
010	sjm10	SAMPLE	198414-006	Soil	130758	10/22/07 14:06	10.0	3
011	sjm11	SAMPLE	198414-007	Soil	130758	10/22/07 14:39	5.0	3
012	sjm12	MSS	198257-006	Soil	130758	10/22/07 15:36	3.0	3
013	sjm13	MS	QC411435	Soil	130758	10/22/07 16:10	3.0	3
014	sjm14	MSD	QC411436	Soil	130758	10/22/07 16:44	3.0	3

Standards used: 1=S7320 2=S7216 3=S7386

REPORTING SUMMARY FOR 198380 8270-SIM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FLH	PHAN	AANH	FLA	PRA	BZAA	CHRY	BBFB	BZFK	BZAP	INP1	DBAH	BZHG	NO2B	PHEN	PHEN2
198380-001	MSBNA03	10/22/07 11:14	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198380-002	MSBNA07	10/18/07 19:34	1.0																				
198380-002	MSBNA07	10/19/07 12:34	1.0																				
198380-002	MSBNA02	10/20/07 21:43	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC411034	MSBNA03	10/18/07 15:36	1.0																				
QC411034	MSBNA07	10/19/07 10:38	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC411035	MSBNA03	10/18/07 16:10	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC411036	MSBNA03	10/18/07 16:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC411037	MSBNA03	10/18/07 17:21	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC411433	MSBNA08	10/22/07 10:06	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC411434	MSBNA08	10/22/07 10:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC411435	MSBNA08	10/22/07 16:10	3.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC411436	MSBNA08	10/22/07 16:44	3.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SAMPLE PREPARATION SUMMARY

Batch # : 130658
Started By : SFH
Method : 3550B
Spike #1 ID : S7474

Prep Date : 18-OCT-2007

Spike #2 ID : S7358

Analysis : SIM
Finished By : SFH
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198217-001		Soil	30.09	1	1	0.03323		1				8270-SIM	
198217-002		Soil	30.31	1	1	0.03299		1				8270-SIM	
198379-001		Soil	30.23	1	1	0.03308		1				8270-SIM	
198379-002		Soil	30.09	1	1	0.03323		1				8270-SIM	
198379-003		Soil	30.48	1	1	0.03281		1				8270-SIM	
198379-004		Soil	30.35	2	1	0.0659		1				8270-SIM	would not concentrate further
198379-005		Soil	30.21	1	1	0.0331		1				8270-SIM	MSS
198379-006		Soil	30.37	1	1	0.03293		1				8270-SIM	
198379-009		Soil	30.38	1	1	0.03292		1				8270-SIM	
198379-010		Soil	30.42	1	1	0.03287		1				8270-SIM	
198379-011		Soil	30.13	1	1	0.03319		1				8270-SIM	
198379-012		Soil	30.06	1	1	0.03327		1				8270-SIM	
198379-013		Soil	30.24	1	1	0.03307		1				8270-SIM	
198379-014		Soil	30.11	1	1	0.03321		1				8270-SIM	
198379-015		Soil	30.19	1	1	0.03312		1				(rebatched)	
198380-002		Soil	30.09	1	1	0.03323		1				8270-SIM	
QC411034	BLANK	Soil	30.18	1	1	0.03313		1					
QC411035	LCS	Soil	30.08	1	1	0.03324		1	1				
QC411036	MS	Soil	30.23	1	1	0.03308		1	1				
QC411037	MSD	Soil	30.28	1	1	0.03303		1	1				

LLH 10/19/07 : reviewed paperwork

Analyst: SHD Date: 10/19/07 Reviewer: AD Date: 10/22/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 78 **BK 2560**

LIMS Batch No: 130658
LIMS Analysis 8270-SIM
Date Extracted: 10/18/07

Extraction Method:
☑ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198217-001A	30.09	1.0		
	↓ -002 ↓	30.31	↓		
	198379-001A	30.23			
	-002	30.09			
5	-003	30.48	↓		
	-004 ↓	30.35	2.0		would not conc further
	-005L	30.21	1.0		MSS
	-006E	30.37			
	-009B	30.38			
10	-010A	30.42			
	-011	30.13			
	-012	30.06			
	-013	30.24			
	-014	30.11			
15	↓ -015 ↓	30.19			
	MB QC41034	30.18			
	LCS 5	30.08			
	MS 6	30.23			
	MSD ↓ 7	30.28			
20	198380-002A	30.09	↓		
					SFH 10/18/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM 47073734	SFH 10/18/07
1.0 mL of surrogate solution was added to all samples	57474B	
1.0 mL of matrix spiking solution was added to all spikes	57358C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM 47158	
Acetone	EM 47156	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47073734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓	

10/18/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

10/18/07
Reviewed by / Date

Sample ID	Weight (g)	Analysis	Batch #	Comments
198272-001	30.06	8310		198266-011, 013, 020, 022, 029, 032, 038, 040 Comp 047, 049 all with A @ 10g each
198266-011 A	30.23			
-013	30.11			
-020	30.06			
-022	30.01			
-029	30.23			
-032	30.10			
-038	30.18			
-040	30.17			
-047	30.00			MSS
-049	30.10			
MB	30.47			EM46283703
LCS	30.30			
MS	30.18			198266-047A
MSD	30.01			
198217-001 A	30.09	8270-SIM	KML 10/17/07 130658	
-002	30.31			
198300-001 A	30.49			
-002	30.27			
198301-002 A	30.14			
-003	30.11			
198380-002 A	30.09		130658	
198379-001 A	30.23		130658	
-002	30.09			
-003	30.48			
-004	30.35			
-005 L	30.21			MSS
-006 E	30.57			
-009 B	30.38			
-010 A	30.42			
-011	30.13			
-012	30.06			
-013	30.24			
-014	30.11			
-015	30.19			
MB	30.18		KML 10/17/07	EM46283703

Continued on Page 74

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page 73

Sample ID	Weight(g)	Analysis	Batch #	Comments
LCS	30.08	8270-SIM	130658	EM46283703
MS	30.23			198379-005L
MSD	30.28			

RM 10/17/07

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE PREPARATION SUMMARY

Batch # : 130758
Started By : JLM
Method : 3550B
Spike #1 ID : S7474
Prep Date : 20-OCT-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7358
Analysis : 8270-SIM
Finished By : SFL
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198257-001		Soil	30.5	1	1	0.03279		1				8270-SIM	
198257-002		Soil	30.22	1	1	0.03309		1				8270-SIM	
198257-003		Soil	30.22	1	1	0.03309		1				8270-SIM	
198257-004		Soil	30.17	1	1	0.03315		1				8270-SIM	
198257-005		Soil	30.18	1	1	0.03313		1				8270-SIM	
198257-006		Soil	30.16	1	1	0.03316		1				8270-SIM	mss
198257-007		Soil	30.1	2	1	0.06645		1				8270-SIM	
198257-008		Soil	30.14	1	1	0.03318		1				8270-SIM	
198257-009		Soil	30.3	1	1	0.033		1				8270-SIM	
198301-002		Soil	30.14	1	1	0.03318		1				8270-SIM	
198301-003		Soil	30.11	2	1	0.06642		1				8270-SIM	
198379-015		Soil	30.03	1	1	0.0333		1				8270-SIM	re-x
198380-001		Soil	30.49	1	1	0.0328		1				8270-SIM	
198414-001		Soil	30.13	1	1	0.03319		1				8270-SIM	
198414-002		Soil	30.14	1	1	0.03318		1				8270-SIM	
198414-003		Soil	30.11	1	1	0.03321		1				8270-SIM	
198414-004		Soil	30.27	1	1	0.03304		1				8270-SIM	
198414-005		Soil	30.37	1	1	0.03293		1				8270-SIM	
198414-006		Soil	30.23	1	1	0.03308		1				8270-SIM	
198414-007		Soil	30.28	1	1	0.03303		1				8270-SIM	
QC411433	BLANK	Soil	30.27	1	1	0.03304		1				8270-SIM	
QC411434	LCS	Soil	30.17	1	1	0.03315		1	1			8270-SIM	
QC411435	MS	Soil	30.35	1	1	0.03295		1	1			8270-SIM	
QC411436	MSD	Soil	30.27	1	1	0.03304		1	1			8270-SIM	

SHD 10/22/07 : Paperwork reviewed

AD 10/22/07 : Reviewed paperwork.

Analyst: SHD Date: 10/23/07 Reviewer: JGM Date: 10/23/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 83 **BK 2560**

LIMS Batch No: 130758
LIMS Analysis 8270-SIM
Date Extracted: 10/20/07

Extraction Method:
☒ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198257-001	30.50	1.0		
	-002	30.22			
	-003	30.22			
	-004	30.17			
5	-005	30.18			
	-006	30.16	✓		MSS
	-007	30.10	SR 10/21/07 2.0		SAMPLE MOISTURE CONC. TO FINAL VOLUME
	-008	30.14	1.0		
	-009	30.30			
10	198301-002	30.14			
	-003	30.11	SR 10/21/07 2.0		SAMPLE MOISTURE CONC. TO 1ML FINAL VOLUME
	198379-015	30.03			RE-X
	198380-001	30.49			
	198414-001	30.13			
15	-002	30.14			
	-003	30.11			
	-004	30.27			
	-005	30.37			
	-006	30.23			
20	-007	30.28			
	MB QC411433	30.27			
	LCS 4	30.17			
	MS 5	30.35			
	MSD 6	30.27			
					SR 10/21/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM47158737	JLM 10/20/07
1.0 mL of surrogate solution was added to all samples	57474B	
1.0 mL of matrix spiking solution was added to all spikes	57358C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM47110	
Acetone	EM47156	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	SR 10/21/07
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	0470 2734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	FHDEV	

10/20/07
Extraction Chemist / Date

Continued from page _____
Continued on page 1

10/21/07
Reviewed by / Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
198414-001D	30.43	PCB		
-002	30.45			
-003	30.36			
-004	30.36			
-005	30.32			
-006	30.04			MSS
-007	30.28			KML 10/18/07 ~~EM47146~~ EM47158737
MB	30.28			↓
LCS	30.02			198414-006D
MS	30.12			↓
MSD	30.08			
198414-001D	30.13	8270-SIM	KML 10/10/07 130758	
-002	30.14			
-003	30.11			
-004	30.27			
-005	30.37			
-006	30.23			
-007	30.28			
198257-001A	30.50			
-002	30.22			
-003	30.22			
-004	30.17			
-005	30.18			
-006	30.16			MSS
-007	30.10			
-008	30.14			
-009	30.30			
MB	30.27			EM47158737
LCS	30.17			↓
MS	30.35			198257-006A
MSD	30.27			↓
			KML 10/18/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
198441-001A	30.47	PCB		
-002	30.45			
-004	30.32			
-005	30.41			
-006	30.18			
-007C	30.15			MSS
-008A	30.32			
-009	30.02			
-010	30.19			
-011	30.20			
MB	30.19			EM47158737
LCS	30.17			↓
MS	30.44			198441-007C
MSD	30.19	↓		↓
198266-01A	30.04	8310	KML 10/19/07	
↓ 20A	30.05			MSS
BLANK	30.08			EM47158737
LCS	30.29			↓
MS	30.08			198266-020A
MSD	30.04	↓		↓
				KR 10/19/07
198379-015A	30.03	8270-SIM	130758	
				JLM 10/20/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Sample ID	Weight (g)	Analysis	Batch #	Comments
198272-001	30.06	8310		198266-011, 013, 020, 022, 029, 032, 038, 040 Comp 047, 049 all 1ml's A @ 10g each
198266-011 A	30.23			
-013	30.11			
-020	30.06			
-022	30.01			
-029	30.23			
-032	30.10			
-038	30.18			
-040	30.17			
-047	30.00			MSS
-049	30.10			
MB	30.47			EM46283703
LCS	30.30			
MS	30.18			198266-047A
MSD	30.01			
198217-001 A	30.09	8270-SIM	KML 10/17/07	
-002	30.31			
198300-001 A	30.49			
-002	30.27			
198301-002 A	30.14		130758	
-003	30.11			
198380-002 A	30.09			
198379-001 A	30.23			
-002	30.09			
-003	30.48			
-004	30.35			
-005 L	30.21			MSS
-006 E	30.57			
-009 B	30.38			
-010 A	30.42			
-011	30.13			
-012	30.06			
-013	30.24			
-014	30.11			
-015	30.19			
MB	30.18		KML 10/17/07	EM46283703

Continued on Page 74

Read and Understood By

Signed Date Signed Date

Sample ID	Weight(g)	Analysis	Batch #	Comments
MS	50.05	TEH		198354-002A
MSD	50.15	↓		↓
		KML 10/17/07		
198300-002A	50.08	TEHM		
198379-001A	50.26			
-002	50.11			
-003	50.45			
-004	50.29			
-005J	50.12			MSS
-006E	50.16			
-009B	50.39			
-010A	50.15			
-011	50.03			
-012	50.21			
-013	50.26			
-014	50.08			
-015	50.06			
198352-001A	50.08	TEH		
198361-001A	50.29	TEHM		
-002	50.41			
-003	50.12			
MB	50.36			EM47,158737
LCS	50.00			↓
MS	50.08			198379-005J
MSD	50.49			↓
		KML 10/18/07		
198475-009	50.11	TEHM		comp 001,002,003,004 @ 20g all Later A each
-010	50.09			comp 005,006,007,008 @ 20g all Later A each
198272-001	50.00			comp -011,013,029,022,024,032,038 198266 040,047,049 all A@10g each
		KML 10/18/07		
198380-001A	50.09	TEHM		
-002	50.22			
		KML 10/18/07		
198380-001A	30.49	8270-SIM		130758
		KML 10/18/07		

Continued on Page

Read and Understood By

Signed Date Signed Date

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198380	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065BC400	Basis:	dry
Lab ID:	198380-001	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07
Units:	mg/Kg		

Moisture: 1%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.91	0.51	0.085	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Arsenic	4.4	0.28	0.094	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Barium	75	0.25	0.021	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Beryllium	0.55	0.10	0.0023	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Cadmium	0.14 J	0.25	0.023	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Chromium	51	0.25	0.028	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Cobalt	5.1	0.25	0.021	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Copper	74	0.28	0.094	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Lead	13	0.18	0.061	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Mercury	4.8	0.19	0.045	10.00	130786	10/22/07	10/22/07	METHOD	EPA 7471A
Molybdenum	5.3	0.25	0.050	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Nickel	27	0.25	0.023	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Selenium	0.11 J	0.25	0.011	10.00	130692	10/18/07	10/23/07	EPA 3050B	EPA 6020
Silver	0.77	0.25	0.056	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Thallium	ND	0.51	0.084	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Vanadium	14	0.25	0.030	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B
Zinc	30	1.0	0.035	1.000	130692	10/18/07	10/19/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198380	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065BC401	Basis:	dry
Lab ID:	198380-002	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07
Units:	mg/Kg		

Moisture: 3%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.12 J	0.26	0.0029	10.00	130746	10/19/07	10/22/07	EPA 3050B	EPA 6020
Arsenic	3.0	0.26	0.019	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Barium	200	0.52	0.15	100.0	130746	10/19/07	10/20/07	EPA 3050B	EPA 6020
Beryllium	0.56	0.26	0.014	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Cadmium	0.046 J	0.26	0.013	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Chromium	6.4	0.26	0.072	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Cobalt	5.3	0.26	0.012	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Copper	8.9	0.36	0.12	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Lead	7.0	0.26	0.0090	10.00	130746	10/19/07	10/22/07	EPA 3050B	EPA 6020
Mercury	2.6	0.089	0.021	5.000	130619	10/17/07	10/17/07	METHOD	EPA 7471A
Molybdenum	0.40	0.26	0.027	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Nickel	14	0.66	0.22	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Selenium	0.074 J	0.26	0.011	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Silver	0.033 J	0.26	0.0076	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Thallium	0.074 J	0.26	0.0025	10.00	130746	10/19/07	10/22/07	EPA 3050B	EPA 6020
Vanadium	11	0.26	0.011	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020
Zinc	42	1.3	0.24	10.00	130746	10/19/07	10/21/07	EPA 3050B	EPA 6020

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115		
Type:	BLANK	Basis:	as received
Lab ID:	QC411177	Batch#:	130692
Matrix:	Soil	Prepared:	10/18/07
Units:	mg/Kg		

Analyte	Result	RL	MDL	Diln Fac	Analyzed	Analysis
Antimony	ND	0.50	0.087	1.000	10/19/07	EPA 6010B
Arsenic	ND	0.29	0.096	1.000	10/19/07	EPA 6010B
Barium	ND	0.25	0.022	1.000	10/19/07	EPA 6010B
Beryllium	ND	0.10	0.0024	1.000	10/19/07	EPA 6010B
Cadmium	ND	0.25	0.024	1.000	10/19/07	EPA 6010B
Chromium	0.032 J	0.25	0.029	1.000	10/19/07	EPA 6010B
Cobalt	ND	0.25	0.021	1.000	10/19/07	EPA 6010B
Copper	ND	0.29	0.096	1.000	10/19/07	EPA 6010B
Lead	ND	0.19	0.062	1.000	10/19/07	EPA 6010B
Molybdenum	ND	0.25	0.051	1.000	10/19/07	EPA 6010B
Nickel	ND	0.25	0.024	1.000	10/19/07	EPA 6010B
Selenium	ND	0.25	0.0055	5.000	10/23/07	EPA 6020
Silver	ND	0.25	0.057	1.000	10/19/07	EPA 6010B
Thallium	ND	0.50	0.086	1.000	10/19/07	EPA 6010B
Vanadium	ND	0.25	0.030	1.000	10/19/07	EPA 6010B
Zinc	0.078 J	1.0	0.036	1.000	10/19/07	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6020
Type:	BLANK	Basis:	as received
Lab ID:	QC411394	Diln Fac:	5.000
Matrix:	Soil	Batch#:	130746
Units:	mg/Kg	Prepared:	10/19/07

Analyte	Result	RL	MDL	Analyzed
Antimony	0.0037 J	0.25	0.0034	10/20/07
Arsenic	0.010 J	0.25	0.0091	10/20/07
Barium	ND	0.25	0.0071	10/20/07
Beryllium	ND	0.25	0.0069	10/20/07
Cadmium	ND	0.25	0.0064	10/20/07
Chromium	0.052 J	0.25	0.035	10/20/07
Cobalt	0.0064 J	0.25	0.0056	10/20/07
Copper	ND	0.25	0.057	10/20/07
Lead	0.010 J	0.25	0.0044	10/22/07
Molybdenum	0.015 J	0.25	0.0027	10/22/07
Nickel	ND	0.32	0.11	10/20/07
Selenium	ND	0.25	0.0055	10/20/07
Silver	0.0045 J	0.25	0.0037	10/20/07
Thallium	ND	0.25	0.0012	10/20/07
Vanadium	0.020 J	0.25	0.0052	10/20/07
Zinc	ND	1.3	0.12	10/20/07

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC410866	Batch#:	130619
Matrix:	Soil	Prepared:	10/17/07
Units:	mg/Kg	Analyzed:	10/17/07

Result	RL	MDL
ND	0.020	0.0047

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

15.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC411545	Batch#:	130786
Matrix:	Soil	Prepared:	10/22/07
Units:	mg/Kg	Analyzed:	10/22/07

Result	RL	MDL
ND	0.020	0.0047

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

39.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115		
Matrix:	Soil	Batch#:	130692
Units:	mg/Kg	Prepared:	10/18/07
Basis:	as received		

Type: BS Lab ID: QC411178

Analyte	Spiked	Result	%REC	Limits	Diln Fac	Analyzed	Analysis
Antimony	100.0	90.34	90	75-125	1.000	10/19/07	EPA 6010B
Arsenic	50.00	47.18	94	75-125	1.000	10/19/07	EPA 6010B
Barium	100.0	91.78	92	75-125	1.000	10/19/07	EPA 6010B
Beryllium	2.500	2.379	95	75-125	1.000	10/19/07	EPA 6010B
Cadmium	10.00	9.305	93	75-125	1.000	10/19/07	EPA 6010B
Chromium	100.0	89.66	90	75-125	1.000	10/19/07	EPA 6010B
Cobalt	25.00	22.38	90	75-125	1.000	10/19/07	EPA 6010B
Copper	12.50	11.42	91	75-125	1.000	10/19/07	EPA 6010B
Lead	100.0	89.67	90	75-125	1.000	10/19/07	EPA 6010B
Molybdenum	20.00	18.40	92	75-125	1.000	10/19/07	EPA 6010B
Nickel	25.00	22.49	90	75-125	1.000	10/19/07	EPA 6010B
Selenium	50.00	47.32	95	75-125	10.00	10/23/07	EPA 6020
Silver	10.00	8.595	86	75-125	1.000	10/19/07	EPA 6010B
Thallium	50.00	45.22	90	75-125	1.000	10/19/07	EPA 6010B
Vanadium	25.00	22.42	90	75-125	1.000	10/19/07	EPA 6010B
Zinc	25.00	22.77	91	75-125	1.000	10/19/07	EPA 6010B

Type: BSD Lab ID: QC411179

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed	Analysis
Antimony	100.0	89.46	89	75-125	1	30	1.000	10/19/07	EPA 6010B
Arsenic	50.00	47.50	95	75-125	1	30	1.000	10/19/07	EPA 6010B
Barium	100.0	92.85	93	75-125	1	30	1.000	10/19/07	EPA 6010B
Beryllium	2.500	2.419	97	75-125	2	30	1.000	10/19/07	EPA 6010B
Cadmium	10.00	9.382	94	75-125	1	30	1.000	10/19/07	EPA 6010B
Chromium	100.0	91.23	91	75-125	2	30	1.000	10/19/07	EPA 6010B
Cobalt	25.00	22.51	90	75-125	1	30	1.000	10/19/07	EPA 6010B
Copper	12.50	11.57	93	75-125	1	30	1.000	10/19/07	EPA 6010B
Lead	100.0	90.79	91	75-125	1	30	1.000	10/19/07	EPA 6010B
Molybdenum	20.00	18.53	93	75-125	1	30	1.000	10/19/07	EPA 6010B
Nickel	25.00	22.52	90	75-125	0	30	1.000	10/19/07	EPA 6010B
Selenium	50.00	48.01	96	75-125	1	30	10.00	10/23/07	EPA 6020
Silver	10.00	8.770	88	75-125	2	30	1.000	10/19/07	EPA 6010B
Thallium	50.00	45.38	91	75-125	0	30	1.000	10/19/07	EPA 6010B
Vanadium	25.00	22.85	91	75-125	2	30	1.000	10/19/07	EPA 6010B
Zinc	25.00	23.05	92	75-125	1	30	1.000	10/19/07	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6020
Matrix:	Soil	Diln Fac:	10.00
Units:	mg/Kg	Batch#:	130746
Basis:	as received	Prepared:	10/19/07

Type: BS Lab ID: QC411395

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	25.00	21.83	87	75-125	10/20/07
Arsenic	25.00	23.85	95	75-125	10/20/07
Barium	25.00	22.97	92	75-125	10/20/07
Beryllium	25.00	22.32	89	75-125	10/20/07
Cadmium	25.00	23.54	94	75-125	10/20/07
Chromium	25.00	23.46	94	75-125	10/20/07
Cobalt	25.00	23.99	96	75-125	10/20/07
Copper	25.00	24.11	96	75-125	10/20/07
Lead	25.00	24.72	99	75-125	10/22/07
Molybdenum	25.00	22.15	89	75-125	10/20/07
Nickel	25.00	24.30	97	75-125	10/20/07
Selenium	25.00	25.25	101	75-125	10/20/07
Silver	25.00	23.75	95	75-125	10/20/07
Thallium	25.00	22.23	89	75-125	10/20/07
Vanadium	25.00	23.32	93	75-125	10/20/07
Zinc	25.00	23.75	95	75-125	10/20/07

Type: BSD Lab ID: QC411396

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	25.00	21.09	84	75-125	3	30	10/20/07
Arsenic	25.00	22.79	91	75-125	5	30	10/20/07
Barium	25.00	22.39	90	75-125	3	30	10/20/07
Beryllium	25.00	21.84	87	75-125	2	30	10/20/07
Cadmium	25.00	22.81	91	75-125	3	30	10/20/07
Chromium	25.00	22.75	91	75-125	3	30	10/20/07
Cobalt	25.00	23.31	93	75-125	3	30	10/20/07
Copper	25.00	23.05	92	75-125	4	30	10/20/07
Lead	25.00	23.49	94	75-125	5	30	10/22/07
Molybdenum	25.00	21.44	86	75-125	3	30	10/20/07
Nickel	25.00	23.59	94	75-125	3	30	10/20/07
Selenium	25.00	23.32	93	75-125	8	30	10/20/07
Silver	25.00	22.59	90	75-125	5	30	10/20/07
Thallium	25.00	21.58	86	75-125	3	30	10/20/07
Vanadium	25.00	22.52	90	75-125	3	30	10/20/07
Zinc	25.00	22.46	90	75-125	6	30	10/20/07

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	130619
Units:	mg/Kg	Prepared:	10/17/07
Basis:	as received	Analyzed:	10/17/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC410867	0.5000	0.5060	101	75-125		
BSD	QC410868	0.5000	0.5060	101	75-125	0	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	130786
Units:	mg/Kg	Prepared:	10/22/07
Basis:	as received	Analyzed:	10/22/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC411546	0.5000	0.5340	107	75-125		
BSD	QC411547	0.5000	0.5100	102	75-125	5	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115		
Field ID:	ZZZZZZZZZZ	Batch#:	130692
MSS Lab ID:	198453-002	Sampled:	10/15/07
Matrix:	Soil	Received:	10/16/07
Units:	mg/Kg	Prepared:	10/18/07
Basis:	as received		

Type: MS Lab ID: QC411180

Analyte	MSS Result	Spiked	Result	%REC	Limits	Dil'n Fac	Analyzed	Analysis
Antimony	0.5191	96.15	54.80	56 *	75-125	1.000	10/19/07	EPA 6010B
Arsenic	2.588	48.08	47.25	93	75-125	1.000	10/19/07	EPA 6010B
Barium	56.95	96.15	144.9	92	75-125	1.000	10/19/07	EPA 6010B
Beryllium	0.2299	2.404	2.515	95	75-125	1.000	10/19/07	EPA 6010B
Cadmium	0.06185	9.615	8.578	89	75-125	1.000	10/19/07	EPA 6010B
Chromium	35.54	96.15	120.1	88	75-125	1.000	10/19/07	EPA 6010B
Cobalt	4.644	24.04	24.74	84	75-125	1.000	10/19/07	EPA 6010B
Copper	18.07	12.02	29.73	97 P	75-125	1.000	10/19/07	EPA 6010B
Lead	0.7599	96.15	81.81	84	75-125	1.000	10/19/07	EPA 6010B
Molybdenum	0.1456	19.23	16.85	87	75-125	1.000	10/19/07	EPA 6010B
Nickel	25.61	24.04	47.43	91 P	75-125	1.000	10/19/07	EPA 6010B
Selenium	0.05361	48.08	46.01	96	75-125	10.00	10/23/07	EPA 6020
Silver	<0.05660	9.615	8.443	88	75-125	1.000	10/19/07	EPA 6010B
Thallium	<0.08476	48.08	39.49	82	75-125	1.000	10/19/07	EPA 6010B
Vanadium	33.45	24.04	55.24	91 P	75-125	1.000	10/19/07	EPA 6010B
Zinc	29.70	24.04	48.90	80 P	75-125	1.000	10/19/07	EPA 6010B

Type: MSD Lab ID: QC411181

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Dil'n Fac	Analyzed	Analysis
Antimony	100.0	55.01	54 *	75-125	4	30	1.000	10/19/07	EPA 6010B
Arsenic	50.00	48.25	91	75-125	2	30	1.000	10/19/07	EPA 6010B
Barium	100.0	146.5	90	75-125	1	30	1.000	10/19/07	EPA 6010B
Beryllium	2.500	2.529	92	75-125	3	30	1.000	10/19/07	EPA 6010B
Cadmium	10.00	8.550	85	75-125	4	30	1.000	10/19/07	EPA 6010B
Chromium	100.0	123.4	88	75-125	0	30	1.000	10/19/07	EPA 6010B
Cobalt	25.00	25.60	84	75-125	0	30	1.000	10/19/07	EPA 6010B
Copper	12.50	30.42	99 P	75-125	1	30	1.000	10/19/07	EPA 6010B
Lead	100.0	81.30	81	75-125	5	30	1.000	10/19/07	EPA 6010B
Molybdenum	20.00	16.79	83	75-125	4	30	1.000	10/19/07	EPA 6010B
Nickel	25.00	49.13	94 P	75-125	2	30	1.000	10/19/07	EPA 6010B
Selenium	50.00	46.65	93	75-125	3	30	10.00	10/23/07	EPA 6020
Silver	10.00	8.617	86	75-125	2	30	1.000	10/19/07	EPA 6010B
Thallium	50.00	39.23	78	75-125	5	30	1.000	10/19/07	EPA 6010B
Vanadium	25.00	61.21	111 P	75-125	9	30	1.000	10/19/07	EPA 6010B
Zinc	25.00	49.60	80 P	75-125	0	30	1.000	10/19/07	EPA 6010B

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6020
Field ID:	1065BC401	Batch#:	130746
MSS Lab ID:	198380-002	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07
Units:	mg/Kg	Prepared:	10/19/07
Basis:	dry		

Type: MS Moisture: 3%
Lab ID: QC411397

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac	Analyzed
Antimony	0.1237	25.77	9.691	37 *	75-125	10.00	10/22/07
Arsenic	3.029	25.77	27.28	94	75-125	10.00	10/21/07
Barium	204.8	25.77	201.1	-14 NM	75-125	100.0	10/20/07
Beryllium	0.5649	25.77	24.26	92	75-125	10.00	10/21/07
Cadmium	0.04558	25.77	23.09	89	75-125	10.00	10/21/07
Chromium	6.428	25.77	31.40	97	75-125	10.00	10/21/07
Cobalt	5.258	25.77	28.04	88	75-125	10.00	10/21/07
Copper	8.948	25.77	33.31	95	75-125	10.00	10/21/07
Lead	6.995	25.77	29.97	89	75-125	10.00	10/22/07
Molybdenum	0.4007	25.77	19.06	72 *	75-125	10.00	10/21/07
Nickel	14.13	25.77	37.32	90	75-125	10.00	10/21/07
Selenium	0.07387	25.77	23.90	92	75-125	10.00	10/21/07
Silver	0.03328	25.77	23.11	90	75-125	10.00	10/21/07
Thallium	0.07356	25.77	23.15	90	75-125	10.00	10/22/07
Vanadium	10.89	25.77	32.99	86	75-125	10.00	10/21/07
Zinc	41.89	25.77	64.95	89 P	75-125	10.00	10/21/07

Type: MSD Moisture: 3%
Lab ID: QC411398

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
Antimony	23.65	8.621	36 *	75-125	3	30	10.00	10/22/07
Arsenic	23.65	23.46	86	75-125	7	30	10.00	10/21/07
Barium	23.65	213.1	35 NM	75-125	7	30	100.0	10/20/07
Beryllium	23.65	21.33	88	75-125	4	30	10.00	10/21/07
Cadmium	23.65	19.72	83	75-125	7	30	10.00	10/21/07
Chromium	23.65	27.47	89	75-125	7	30	10.00	10/21/07
Cobalt	23.65	24.26	80	75-125	7	30	10.00	10/21/07
Copper	23.65	29.42	87	75-125	6	30	10.00	10/21/07
Lead	23.65	27.33	86	75-125	3	30	10.00	10/22/07
Molybdenum	23.65	16.18	67 *	75-125	8	30	10.00	10/21/07
Nickel	23.65	33.14	80	75-125	6	30	10.00	10/21/07
Selenium	23.65	20.55	87	75-125	6	30	10.00	10/21/07
Silver	23.65	19.89	84	75-125	6	30	10.00	10/21/07
Thallium	23.65	21.32	90	75-125	0	30	10.00	10/22/07
Vanadium	23.65	28.97	76	75-125	7	30	10.00	10/21/07
Zinc	23.65	56.56	62 * P	75-125	11	30	10.00	10/21/07

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	130619
MSS Lab ID:	198354-002	Sampled:	10/11/07
Matrix:	Soil	Received:	10/12/07
Units:	mg/Kg	Prepared:	10/17/07
Basis:	as received	Analyzed:	10/17/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC410870	0.02375	0.4464	0.5455	117	75-125		
MSD	QC410871		0.4717	0.4915	99	75-125	16	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	130786
MSS Lab ID:	198326-011	Sampled:	10/12/07
Matrix:	Soil	Received:	10/12/07
Units:	mg/Kg	Prepared:	10/22/07
Basis:	dry	Analyzed:	10/22/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC411549	0.5189	0.4504	0.8809	80 P	75-125	9%		
MSD	QC411550		0.4737	0.9113	83 P	75-125	9%	1	35

P= Sample concentration > spike concentration
RPD= Relative Percent Difference

42.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115		
Field ID:	ZZZZZZZZZZ	Units:	mg/Kg
Type:	Serial Dilution	Basis:	as received
MSS Lab ID:	198453-002	Batch#:	130692
Lab ID:	QC411182	Sampled:	10/15/07
Matrix:	Soil	Received:	10/16/07

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac	Analyzed	Analysis
Antimony	0.5191	0.5000	0.7263 J	1.295	NC	10	5.000	10/19/07	EPA 6010B
Arsenic	2.588	0.2851	1.376 J	1.426	NC	10	5.000	10/19/07	EPA 6010B
Barium	56.95	0.2500	59.16	1.238	4	10	5.000	10/19/07	EPA 6010B
Beryllium	0.2299	0.1000	0.2443 J	0.4950	6	10	5.000	10/19/07	EPA 6010B
Cadmium	0.06185	0.2500 ND		1.238	NC	10	5.000	10/19/07	EPA 6010B
Chromium	35.54	0.2500	37.16	1.238	5	10	5.000	10/19/07	EPA 6010B
Cobalt	4.644	0.2500	5.174	1.238	11 *	10	5.000	10/19/07	EPA 6010B
Copper	18.07	0.2853	18.25	1.426	1	10	5.000	10/19/07	EPA 6010B
Lead	0.7599	0.1837	0.6452 J	0.9185	NC	10	5.000	10/19/07	EPA 6010B
Molybdenum	0.1456	0.2500 ND		1.238	NC	10	5.000	10/19/07	EPA 6010B
Nickel	25.61	0.2500	28.14	1.238	10	10	5.000	10/19/07	EPA 6010B
Selenium	0.05361	0.2500	0.07594 J	0.2500	NC	10	50.00	10/23/07	EPA 6020
Silver ND		0.2500 ND		1.238	NC	10	5.000	10/19/07	EPA 6010B
Thallium ND		0.5000 ND		1.271	NC	10	5.000	10/19/07	EPA 6010B
Vanadium	33.45	0.2500	34.31	1.238	3	10	5.000	10/19/07	EPA 6010B
Zinc	29.70	1.000	32.40	4.950	9	10	5.000	10/19/07	EPA 6010B

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6020
Field ID:	1065BC401	Units:	mg/Kg
Type:	Serial Dilution	Basis:	dry
MSS Lab ID:	198380-002	Batch#:	130746
Lab ID:	QC411399	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07

Moisture: 3%

Analyte	MSS Result	MSS RL		Result	RL	% Diff	Lim	Diln Fac	Analyzed
Antimony	0.1237	0.2577		0.1164 J	0.2577	NC	10	50.00	10/22/07
Arsenic	3.029	0.2577		3.020	0.2819	0	10	50.00	10/21/07
Barium	204.8	0.5155		181.8	2.577	11 *	10	500.0	10/20/07
Beryllium	0.5649	0.2577		0.5907	0.2577	NC	10	50.00	10/21/07
Cadmium	0.04558	0.2577	ND		0.2577	NC	10	50.00	10/21/07
Chromium	6.428	0.2577		6.876	1.077	7	10	50.00	10/21/07
Cobalt	5.258	0.2577		5.546	0.2577	5	10	50.00	10/21/07
Copper	8.948	0.3556		9.222	1.778	3	10	50.00	10/21/07
Lead	6.995	0.2577		6.778	0.2577	3	10	50.00	10/22/07
Molybdenum	0.4007	0.2577		0.7052	0.4016	NC	10	50.00	10/21/07
Nickel	14.13	0.6601		15.37	3.301	9	10	50.00	10/21/07
Selenium	0.07387	0.2577		0.07742 J	0.2577	NC	10	50.00	10/21/07
Silver	0.03328	0.2577		0.04922 J	0.2577	NC	10	50.00	10/21/07
Thallium	0.07356	0.2577		0.09789 J	0.2577	NC	10	50.00	10/22/07
Vanadium	10.89	0.2577		11.20	0.2577	3	10	50.00	10/21/07
Zinc	41.89	1.289		44.04	3.622	5	10	50.00	10/21/07

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	130619
MSS Lab ID:	198354-002	Sampled:	10/11/07
Lab ID:	QC410869	Received:	10/12/07
Matrix:	Soil	Analyzed:	10/17/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	% Diff	Lim
0.02375	0.02000	ND	0.09615	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

19.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	130786
MSS Lab ID:	198326-011	Sampled:	10/12/07
Lab ID:	QC411548	Received:	10/12/07
Matrix:	Soil	Analyzed:	10/22/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.5189	0.02198	0.5545	0.1018	9%	7	10

RL= Reporting Limit

41.0

00195

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : PDS
Inst : MET09
Seqnum : 97421029027
File : 101907r
IDF : 1.0
Lab ID : QC411183
Matrix : Soil
Batch : 130692
Time : 19-OCT-2007 10:41
Cal : 97421029001
MSS : 198453-002
Units : ug/L

PDS: 1.01 g --> 50.0 ml = 49.50 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS Seqnum	Result	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	97421029014	10.49	A	2000	1843	A	92	75-125	u
Arsenic	97421029024	52.28	A	1000	1015	A	96	75-125	u **y**
Barium	97421029014	1150	A	2000	2977	A	91	75-125	u
Beryllium	97421029014	4.644	A	50.00	53.65	A	98	75-125	u
Cadmium	97421029014	1.249	A	200.0	185.8	A	92	75-125	u
Calcium	97421029014	92010	R	20000	109900 >LR	R	89	75-125	: >LR u
Chromium	97421029014	718.0	A	2000	2531	A	91	75-125	u
Cobalt	97421029014	93.81	A	500.0	528.7	A	87	75-125	u
Copper	97421029014	364.9	A	250.0	602.2	A	95	75-125	u
Lead	97421029014	15.35	A	2000	1781	A	88	75-125	u
Manganese	97421029014	4592	A	500.0	5016	A	85	75-125	: u
Molybdenum	97421029014	2.940	A	400.0	372.2	A	92	75-125	u
Nickel	97421029014	517.3	A	500.0	969.1	A	90	75-125	u
Potassium	97421029014	9611	R	10000	19200	R	96	75-125	u
Selenium	97421029014	ND	A	1000	947.5	A	95	75-125	u
Silver	97421029014	ND	A	200.0	148.2	A	**74***	75-125	u
Sodium	97421029014	1492	R	20000	20680	R	96	75-125	u
Thallium	97421029014	ND	A	1000	871.3	A	87	75-125	u **y**
Vanadium	97421029014	675.6	A	500.0	1132	A	91	75-125	u
Zinc	97421029014	600.0	A	500.0	1069	A	94	75-125	u
Boron	97421029014	25.61	A	1000	978.0	A	95	75-125	u
Tin	97421029014	7.955	A	1000	904.4	A	90	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3101473	2907757	-6.25

MISSING READINGS: **TI**

:=recovery not meaningful >LR=overrange u=use y=RL raised

97421029027

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET06
Seqnum : 67422979032
File : j20r0032
IDF : 100.0
Lab ID : 198380-002
Matrix : Soil
Batch : 130746
Time : 20-OCT-2007 20:51
Cal : 67422979001
Units : ug/L

Type : PDS
Inst : MET06
Seqnum : 67422979045
File : j20r0045
IDF : 100.0
Lab ID : QC411400
Matrix : Soil
Batch : 130746
Time : 20-OCT-2007 22:09
Cal : 67422979001

MSS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF
PDS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

PDS standards: S6222 (100X), S6223 (100X), S7379

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	593.7	A	10000	9881	A	93	75-125	u
Antimony	0.06993	A	100.0	86.69	A	87	75-125	>c- **b***
Arsenic	0.5716	E	100.0	95.70	E	95	75-125	u
Barium	39.73	A	100.0	130.2	A	90	75-125	u
Beryllium	0.1418	A	100.0	93.15	A	93	75-125	u
Cadmium	0.05423	A	100.0	92.46	A	92	75-125	u
Calcium	3972	A	10000	12790	A	88	75-125	u **y**
Chromium	1.263	E	100.0	89.40	E	88	75-125	u
Cobalt	1.055	E	100.0	89.25	E	88	75-125	u
Copper	1.726	E	100.0	95.42	E	94	75-125	u
Iron	2616	H	10000	11730	H	91	75-125	u
Magnesium	941.1	A	10000	10310	A	94	75-125	u
Manganese	58.99	E	100.0	146.5	E	88	75-125	u
Molybdenum	0.2209	A	100.0	86.19	A	86	75-125	u
Nickel	2.821	E	100.0	91.97	E	89	75-125	u
Potassium	300.4	A	10000	9596	A	93	75-125	u
Selenium	0.04156	H	100.0	95.67	H	96	75-125	u
Silver	0.04257	A	100.0	96.95	A	97	75-125	u
Sodium	12.12	E	10000	8805	E	88	75-125	u
Thallium	0.05532	A	50.00	44.80	A	89	75-125	u
Vanadium	2.142	E	100.0	89.81	E	88	75-125	u
Zinc	8.608	E	100.0	101.7	E	93	75-125	u

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	PDS Abund	%Drift
Lithium	A	2564479	2657098	3.61
Scandium	A	2159297	2259095	4.62
Scandium	E	43015	50084	16.43
Scandium	H	768511	783918	2.00
Germanium	H	171062	165565	-3.21
Germanium	E	33113	34856	5.26
Indium	A	3403866	3006880	-11.66
Bismuth	A	3856135	3128758	-18.86
Yttrium	A	3213882	3057567	-4.86
Terbium	A	5423207	4701284	-13.31

-=low bias >=closing b=noncompliant c=CCV u=use y=RL raised

67422979045

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET06
Seqnum : 67422979088
File : j20r0088
IDF : 10.0
Lab ID : 198380-002
Matrix : Soil
Batch : 130746
Time : 21-OCT-2007 02:26
Cal : 67422979001
Units : ug/L

Type : PDS
Inst : MET06
Seqnum : 67422979092
File : j20r0092
IDF : 10.0
Lab ID : QC411400
Matrix : Soil
Batch : 130746
Time : 21-OCT-2007 02:51
Cal : 67422979001

MSS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF
PDS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

PDS standards: S6222 (100X), S6223 (100X), S7379

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	5396	A	10000	14220	A	88	75-125	u
Arsenic	5.877	E	100.0	99.81	E	94	75-125	
Beryllium	1.096	A	100.0	97.94	A	97	75-125	
Cadmium	0.08843	A	100.0	92.74	A	93	75-125	
Chromium	12.47	E	100.0	101.4	E	89	75-125	
Cobalt	10.20	E	100.0	98.50	E	88	75-125	
Copper	17.36	E	100.0	107.8	E	90	75-125	
Molybdenum	0.7774	A	100.0	79.79	A	79	75-125	
Nickel	27.42	E	100.0	115.3	E	88	75-125	
Potassium	2675	A	10000	11790	A	91	75-125	u
Selenium	0.1433	H	100.0	95.54	H	95	75-125	
Silver	0.06456	A	100.0	92.93	A	93	75-125	
Sodium	177.7	E	10000	8949	E	88	75-125	u
Vanadium	21.13	E	100.0	110.3	E	89	75-125	
Zinc	81.27	E	100.0	169.0	E	88	75-125	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	PDS Abund	%Drift
Lithium	A	2564479	1885196	-26.49
Scandium	A	2159297	1851117	-14.27
Scandium	E	43015	42496	-1.21
Germanium	H	171062	126152	-26.25
Germanium	E	33113	29777	-10.07
Indium	A	3403866	2500591	-26.54
Yttrium	A	3213882	2849797	-11.33

u=use

67422979092

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET16
Seqnum : 897425352068
File : j22j0068
IDF : 10.0
Lab ID : QC411400
Matrix : Soil
Batch : 130746
Time : 22-OCT-2007 16:16
Cal : 897425352001
MSS : 198380-002
Units : ug/L

PDS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

PDS standards: S6222 (100X), S6223 (100X), S7379

Analyte	MSS Seqnum	Result	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	897425352064	6281	A	10000	15320	A	90	75-125	u
Antimony	897425352064	0.2400	A	100.0	100.6	A	100	75-125	u
Arsenic	67422979088	5.877	E	100.0	105.0	E	99	75-125	
Beryllium	67422979088	1.096	A	100.0	100.7	A	100	75-125	
Cadmium	67422979088	0.08843	A	100.0	97.68	A	98	75-125	
Chromium	67422979088	12.47	E	100.0	108.1	E	96	75-125	
Cobalt	67422979088	10.20	E	100.0	103.6	E	93	75-125	
Copper	67422979088	17.36	E	100.0	113.5	E	96	75-125	
Lead	897425352064	13.57	A	100.0	113.3	A	100	75-125	u
Magnesium	897425352064	9926	A	10000	18600	A	87	75-125	u
Molybdenum	67422979088	0.7774	A	100.0	88.86	A	88	75-125	
Nickel	67422979088	27.42	E	100.0	122.2	E	95	75-125	
Potassium	897425352064	3104	A	10000	12410	A	93	75-125	u
Selenium	67422979088	0.1433	H	100.0	98.11	H	98	75-125	
Silver	67422979088	0.06456	A	100.0	98.73	A	99	75-125	
Sodium	897425352064	212.3	E	10000	9898	E	97	75-125	u
Thallium	897425352064	0.1427	A	50.00	50.78	A	101	75-125	
Vanadium	67422979088	21.13	E	100.0	118.2	E	97	75-125	
Zinc	67422979088	81.27	E	100.0	182.4	E	101	75-125	

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	PDS Abund	%Drift
Lithium	A	2429215	2202568	-9.33
Scandium	A	4038136	3885331	-3.78
Scandium	E	44920	47411	5.55
Germanium	H	142960	128583	-10.06
Germanium	E	48735	48274	-0.95
Indium	A	5554339	4917789	-11.46
Bismuth	A	4431134	3885215	-12.32
Yttrium	A	5779679	6176766	6.87
Terbium	A	7412452	6847760	-7.62

u=use

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET06
Seqnum : 67427199037
File : j23p0037
IDF : 10.0
Lab ID : 198453-002
Matrix : Soil
Batch : 130692
Time : 23-OCT-2007 20:28
Cal : 67427199001
Units : ug/L

Type : PDS
Inst : MET06
Seqnum : 67427199048
File : j23p0048
IDF : 10.0
Lab ID : QC411183
Matrix : Soil
Batch : 130692
Time : 23-OCT-2007 21:45
Cal : 67427199001

MSS: 1.01 g --> 50.0 ml = 49.50 ml/g PDF
PDS: 1.01 g --> 50.0 ml = 49.50 ml/g PDF

PDS standards: S6222 (100X), S6223 (100X), S7379

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	16390	A	10000	25010 >LR	A	86	75-125	>LR **b***
Antimony	0.2836	A	100.0	100.1	A	100	75-125	
Arsenic	5.225	E	100.0	97.27	E	92	75-125	
Barium	114.9	A	100.0	209.1 >LR	A	94	75-125	>LR **b***
Beryllium	0.4758	A	100.0	94.60	A	94	75-125	
Cadmium	0.09872	A	100.0	95.21	A	95	75-125	
Calcium	9090	A	10000	18050	A	90	75-125	u **y**
Chromium	73.04	E	100.0	164.5	E	91	75-125	
Cobalt	10.38	E	100.0	100.7	E	90	75-125	
Copper	36.75	E	100.0	131.3	E	95	75-125	
Lead	5.003	A	100.0	100.2	A	95	75-125	
Magnesium	11190	A	10000	19820	A	86	75-125	u
Molybdenum	0.4631	A	100.0	88.23	A	88	75-125	
Nickel	57.62	E	100.0	148.8	E	91	75-125	
Potassium	907.5	A	10000	10040	A	91	75-125	
Selenium	0.1083	H	100.0	97.71	H	98	75-125	
Silver	0.06025	A	100.0	94.61	A	95	75-125	
Sodium	150.4	E	10000	9410	E	93	75-125	u
Thallium	0.08090	A	50.00	48.99	A	98	75-125	
Vanadium	64.44	E	100.0	155.5	E	91	75-125	
Zinc	69.04	E	100.0	157.7	E	89	75-125	

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	PDS Abund	%Drift
Lithium	A	2423024	2351878	-2.94
Scandium	A	3881717	3780598	-2.61
Scandium	E	38910	38663	-0.63
Germanium	H	244833	212447	-13.23
Germanium	E	40240	38034	-5.48
Indium	A	5146407	4702555	-8.62
Bismuth	A	3646446	3303890	-9.39
Yttrium	A	5736416	5859987	2.15
Terbium	A	6411514	6203091	-3.25

>LR=overrange b=noncompliant u=use y=RL raised

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 97421029001
Units : ug/L

Date : 19-OCT-2007 09:09
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	101907r	97421029002	CRIM08	19-OCT-2007 09:13	S7171
L2	101907r	97421029003	CS100	19-OCT-2007 09:17	S7382
L3	101907r	97421029004	CS1K	19-OCT-2007 09:20	S7381
L4	101907r	97421029005	CS10K	19-OCT-2007 09:22	S7383
L5	101907r	97421029006	CS100K	19-OCT-2007 09:25	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	25.692	20.673	19.398	20.574		LOR0	0.00000	0.04863		21.584	1.000	0.995	
Arsenic	A	6.4981	10.568	10.328	10.763		LOR0	0.00000	0.09295		9.5391	1.000	0.995	
Barium	A	115.26	109.44	107.81	106.86		LOR0	0.00000	0.00936		109.84	1.000	0.995	
Beryllium	A	5001.4	5003.8	4931.8			LOR0	0.00000	2.03E-4		4979.0	1.000	0.995	
Boron	A	211.61		220.69	233.55		LOR0	0.00000	0.00428		221.95	1.000	0.995	
Cadmium	A	173.98	179.24	175.15	173.91		LOR0	0.00000	0.00575		175.57	1.000	0.995	
Chromium	A	185.72	194.84	186.63	188.74		LOR0	0.00000	0.00530		188.98	1.000	0.995	
Cobalt	A	62.688	62.499	61.164	63.076		LOR0	0.00000	0.01586		62.357	1.000	0.995	
Copper	A	230.60	224.31	219.20	220.27		LOR0	0.00000	0.00454		223.59	1.000	0.995	
Lead	A	95.927	59.554	59.093	59.302		LOR0	0.00000	0.01686		68.469	1.000	0.995	
Manganese	A	600.91	607.28	583.26	566.51		LOR0	0.00000	0.00176		589.49	1.000	0.995	
Molybdenum	A	37.171	47.682	46.012	48.002		LOR0	0.00000	0.02084		44.717	1.000	0.995	
Nickel	A	95.204	94.907	92.382	93.262		LOR0	0.00000	0.01072		93.939	1.000	0.995	
Selenium	A	14.438	14.543	14.014	15.098		LOR0	0.00000	0.06628		14.523	1.000	0.995	
Silver	A	546.20	586.29	570.73	584.55		LOR0	0.00000	0.00172		571.94	1.000	0.995	
Thallium	A	8.6865	11.601	10.909	10.939		LOR0	0.00000	0.09142		10.534	1.000	0.995	
Tin	A	18.613	19.123	19.206	20.075		LOR0	0.00000	0.04984		19.254	1.000	0.995	
Titanium	A	835.25	868.93	838.27	836.73		LOR0	0.00000	0.00120		844.80	1.000	0.995	
Vanadium	A	249.85	230.13	220.56	228.16		LOR0	0.00000	0.00438		232.18	1.000	0.995	
Zinc	A	135.11	87.291	82.055	83.101		LOR0	0.00000	0.01203		96.889	1.000	0.995	
Aluminum	R	1.0671		0.9350	0.9493	0.9416	LOR0	0.00000	1.06195		0.9732	1.000	0.995	
Calcium	R	12.090		10.403	10.205	9.8274	LOR0	0.00000	0.10172		10.631	1.000	0.995	
Iron	R	3.4786		3.2609	3.2835	3.1524	LOR0	0.00000	0.31709		3.2938	1.000	0.995	
Magnesium	R	1.6312		1.5893	1.5569	1.4923	LOR0	0.00000	0.66980		1.5674	1.000	0.995	
Potassium	R	2.7630		2.6461	2.7298	2.7449	LOR0	0.00000	0.36434		2.7209	1.000	0.995	
Sodium	R	394.49		395.09	384.47	371.69	LOR0	0.00000	0.00269		386.44	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	25	100.0	1	1000	-6	10000	0		
Arsenic	A	5.000	-40	100.0	-2	1000	-4	10000	0		
Barium	A	5.000	8	100.0	2	1000	1	10000	0		
Beryllium	A	2.000	1	100.0	1	1000	0				
Boron	A	100.0	-9			1000	-5	10000	0		
Cadmium	A	5.000	0	100.0	3	1000	1	10000	0		
Chromium	A	5.000	-2	100.0	3	1000	-1	10000	0		
Cobalt	A	5.000	-1	100.0	-1	1000	-3	10000	0		
Copper	A	5.000	5	100.0	2	1000	0	10000	0		
Lead	A	3.000	62	100.0	0	1000	0	10000	0		
Manganese	A	5.000	6	100.0	7	1000	3	10000	0		
Molybdenum	A	5.000	-23	100.0	-1	1000	-4	10000	0		
Nickel	A	5.000	2	100.0	2	1000	-1	10000	0		
Selenium	A	5.000	-4	100.0	-4	1000	-7	10000	0		
Silver	A	5.000	-6	100.0	1	1000	-2	2000	0		
Thallium	A	5.000	-21	100.0	6	1000	0	10000	0		
Tin	A	40.00	-7	100.0	-5	1000	-4	10000	0		
Titanium	A	10.00	0	100.0	4	1000	0	10000	0		
Vanadium	A	5.000	10	100.0	1	1000	-3	10000	0		
Zinc	A	20.00	63	100.0	5	1000	-1	10000	0		
Aluminum	R	100.0	13			1000	-1	10000	1	100000	0
Calcium	R	200.0	23			1000	6	10000	4	100000	0
Iron	R	100.0	10			1000	3	10000	4	100000	0
Magnesium	R	200.0	9			1000	6	10000	4	100000	0
Potassium	R	500.0	1			1000	-4	10000	-1	100000	0
Sodium	R	500.0	6			1000	6	10000	3	100000	0

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/19/2007 9:09:41 AM
Data Type: Reprocessed on 10/19/2007 9:47:55 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1232.6	196.62	15.95%	[0.00]	ug/L
Al 308.215 R	69.8	5.14	7.36%	[0.00]	ug/L
As 188.979	10.4	20.07	193.60%	[0.00]	ug/L
B 249.677	2329.3	116.10	4.98%	[0.00]	ug/L
Ba 233.527	-89.7	1.92	2.14%	[0.00]	ug/L
Be 313.107	-685.1	206.27	30.11%	[0.00]	ug/L
Ca 315.887 R	332.3	2.90	0.87%	[0.00]	ug/L
Cd 214.440	-43.9	7.67	17.46%	[0.00]	ug/L
Co 228.616	-51.7	6.91	13.37%	[0.00]	ug/L
Cr 267.716	2.3	10.35	459.61%	[0.00]	ug/L
Cu 324.752	2438.4	13.04	0.53%	[0.00]	ug/L
Fe 238.204 R	-291.5	2.93	1.00%	[0.00]	ug/L
K 766.490 R	-528.3	91.39	17.30%	[0.00]	ug/L
Mg 279.077 R	-54.7	2.40	4.40%	[0.00]	ug/L
Mn 257.610	84.2	14.77	17.53%	[0.00]	ug/L
Mo 202.031	35.1	8.47	24.15%	[0.00]	ug/L
Na 589.592 R	-1727.8	1217.83	70.48%	[0.00]	ug/L
Ni 231.604	711.2	10.10	1.42%	[0.00]	ug/L
Pb 220.353	14.2	100.60	707.61%	[0.00]	ug/L
Sb 206.836	-148.4	29.16	19.65%	[0.00]	ug/L
Se 196.026	-47.1	15.63	33.18%	[0.00]	ug/L
Ti 334.940 R	205.2	28.66	13.97%	[0.00]	ug/L
Tl 190.801	-45.7	7.94	17.40%	[0.00]	ug/L
V 292.402	-1498.4	57.38	3.83%	[0.00]	ug/L
Zn 206.200	204.8	2.76	1.35%	[0.00]	ug/L
Sn 189.927	61.5	10.77	17.50%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/19/2007 9:13:34 AM
Data Type: Reprocessed on 10/19/2007 9:47:56 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3101473.5	32554.09	1.05%	100.0	%
Y	292233.0	8541.11	2.92%	100.0	%
Ag 328.068†	2731.0	345.84	12.66%	[5.0]	ug/L
Al 308.215 Rt	106.7	5.38	5.04%	[100]	ug/L
As 188.979†	32.5	8.82	27.14%	[5.0]	ug/L
B 249.677†	21161.0	229.26	1.08%	[100]	ug/L
Ba 233.527†	576.3	7.68	1.33%	[5.0]	ug/L
Be 313.107†	10002.8	78.73	0.79%	[2.0]	ug/L
Ca 315.887 Rt	2418.0	81.90	3.39%	[200]	ug/L
Cd 214.440†	869.9	5.40	0.62%	[5.0]	ug/L
Co 228.616†	313.4	4.87	1.56%	[5.0]	ug/L
Cr 267.716†	928.6	9.39	1.01%	[5.0]	ug/L
Cu 324.752†	1153.0	73.77	6.40%	[5.0]	ug/L
Fe 238.204 Rt	347.9	0.40	0.12%	[100]	ug/L
K 766.490 Rt	1381.5	16.89	1.22%	[500]	ug/L
Mg 279.077 Rt	326.2	11.33	3.47%	[200]	ug/L
Mn 257.610†	3004.5	34.81	1.16%	[5.0]	ug/L
Mo 202.031†	185.9	10.57	5.69%	[5.0]	ug/L
Na 589.592 Rt	197246.7	9456.14	4.79%	[500]	ug/L
Ni 231.604†	476.0	20.37	4.28%	[5.0]	ug/L
Pb 220.353†	287.8	62.29	21.64%	[3.0]	ug/L
Sb 206.836†	128.5	14.17	11.03%	[5.0]	ug/L
Se 196.026†	72.2	9.01	12.48%	[5.0]	ug/L
Ti 334.940 Rt	8352.5	76.46	0.92%	[10]	ug/L
Tl 190.801†	43.4	32.56	74.96%	[5.0]	ug/L
V 292.402†	1249.3	87.13	6.97%	[5.0]	ug/L
Zn 206.200†	2702.2	40.56	1.50%	[20]	ug/L
Sn 189.927†	744.5	10.48	1.41%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/19/2007 9:17:32 AM
Data Type: Reprocessed on 10/19/2007 9:47:57 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc:	Calib Units
Y 371.029	3076210.8	17007.11	0.55%	99.19	%
Y	298340.7	777.02	0.26%	102.1	%
Ag 328.068†	58628.8	741.29	1.26%	[100]	ug/L
As 188.979†	1056.8	13.67	1.29%	[100]	ug/L
Ba 233.527†	10943.9	45.26	0.41%	[100]	ug/L
Be 313.107†	500379.5	965.17	0.19%	[100]	ug/L
Cd 214.440†	17924.4	445.44	2.49%	[100]	ug/L
Co 228.616†	6249.9	40.58	0.65%	[100]	ug/L
Cr 267.716†	19483.7	322.52	1.66%	[100]	ug/L
Cu 324.752†	22430.8	453.34	2.02%	[100]	ug/L
Mn 257.610†	60728.5	1161.86	1.91%	[100]	ug/L
Mo 202.031†	4768.2	31.79	0.67%	[100]	ug/L
Ni 231.604†	9490.7	168.87	1.78%	[100]	ug/L
Pb 220.353†	5955.4	55.08	0.92%	[100]	ug/L
Sb 206.836†	2067.3	25.98	1.26%	[100]	ug/L
Se 196.026†	1454.3	37.61	2.59%	[100]	ug/L
Ti 334.940 R†	86893.3	1334.63	1.54%	[100]	ug/L
Tl 190.801†	1160.1	28.52	2.46%	[100]	ug/L
V 292.402†	23013.3	351.36	1.53%	[100]	ug/L
Zn 206.200†	8729.1	46.46	0.53%	[100]	ug/L
Sn 189.927†	1912.3	9.80	0.51%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/19/2007 9:20:33 AM
Data Type: Reprocessed on 10/19/2007 9:47:59 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3115822.5	16979.38	0.54%	100.5	%
Y	292725.7	1910.47	0.65%	100.2	%
Ag 328.068†	570732.7	3752.86	0.66%	[1000]	ug/L
Al 308.215 R†	935.0	29.86	3.19%	[1000]	ug/L
As 188.979†	10327.6	307.59	2.98%	[1000]	ug/L
B 249.677†	220694.1	543.55	0.25%	[1000]	ug/L
Ba 233.527†	107813.3	229.11	0.21%	[1000]	ug/L
Be 313.107†	4931813.5	3223.06	0.07%	[1000]	ug/L
Ca 315.887 R†	10402.8	239.17	2.30%	[1000]	ug/L
Cd 214.440†	175154.3	71.41	0.04%	[1000]	ug/L
Co 228.616†	61164.3	1562.99	2.56%	[1000]	ug/L
Cr 267.716†	186632.4	392.89	0.21%	[1000]	ug/L
Cu 324.752†	219199.1	490.96	0.22%	[1000]	ug/L
Fe 238.204 R†	3260.9	65.31	2.00%	[1000]	ug/L
K 766.490 R†	2646.1	201.49	7.61%	[1000]	ug/L
Mg 279.077 R†	1589.3	35.48	2.23%	[1000]	ug/L
Mn 257.610†	583259.6	858.98	0.15%	[1000]	ug/L
Mo 202.031†	46011.9	1291.36	2.81%	[1000]	ug/L
Na 589.592 R†	395092.5	2499.65	0.63%	[1000]	ug/L
Ni 231.604†	92382.4	163.45	0.18%	[1000]	ug/L
Pb 220.353†	59092.7	2077.19	3.52%	[1000]	ug/L
Sb 206.836†	19397.9	484.70	2.50%	[1000]	ug/L
Se 196.026†	14014.1	479.18	3.42%	[1000]	ug/L
Ti 334.940 R†	838271.5	1282.05	0.15%	[1000]	ug/L
Tl 190.801†	10909.0	307.32	2.82%	[1000]	ug/L
V 292.402†	220564.7	192.40	0.09%	[1000]	ug/L
Zn 206.200†	82054.8	296.23	0.36%	[1000]	ug/L
Sn 189.927†	19205.9	471.54	2.46%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/19/2007 9:22:40 AM
Data Type: Reprocessed on 10/19/2007 9:48:01 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2980321.2	15031.73	0.50%	96.09	%
Y	286951.0	2616.48	0.91%	98.19	%
Ag 328.068†	1169101.2	3848.84	0.33%	[2000]	ug/L
Al 308.215 Rt	9493.2	25.41	0.27%	[10000]	ug/L
As 188.979†	107631.6	2574.52	2.39%	[10000]	ug/L
B 249.677†	2335456.5	9927.77	0.43%	[10000]	ug/L
Ba 233.527†	1068577.8	3280.21	0.31%	[10000]	ug/L
Ca 315.887 Rt	102048.0	573.35	0.56%	[10000]	ug/L
Cd 214.440†	1739121.1	12496.44	0.72%	[10000]	ug/L
Co 228.616†	630759.7	2340.96	0.37%	[10000]	ug/L
Cr 267.716†	1887404.1	4633.36	0.25%	[10000]	ug/L
Cu 324.752†	2202667.5	9289.87	0.42%	[10000]	ug/L
Fe 238.204 Rt	32834.7	289.25	0.88%	[10000]	ug/L
K 766.490 Rt	27298.1	204.41	0.75%	[10000]	ug/L
Mg 279.077 Rt	15568.6	32.70	0.21%	[10000]	ug/L
Mn 257.610†	5665055.3	39337.91	0.69%	[10000]	ug/L
Mo 202.031†	480016.8	1921.76	0.40%	[10000]	ug/L
Na 589.592 Rt	3844666.2	58171.12	1.51%	[10000]	ug/L
Ni 231.604†	932624.9	2856.81	0.31%	[10000]	ug/L
Pb 220.353†	593023.1	11512.51	1.94%	[10000]	ug/L
Sb 206.836†	205744.1	4536.18	2.20%	[10000]	ug/L
Se 196.026†	150976.7	3224.69	2.14%	[10000]	ug/L
Ti 334.940 Rt	8367269.7	79250.23	0.95%	[10000]	ug/L
Tl 190.801†	109385.6	2518.94	2.30%	[10000]	ug/L
V 292.402†	2281552.4	4911.68	0.22%	[10000]	ug/L
Zn 206.200†	831012.1	4600.07	0.55%	[10000]	ug/L
Sn 189.927†	200747.0	4452.84	2.22%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/19/2007 9:25:38 AM
Data Type: Reprocessed on 10/19/2007 9:48:02 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	168.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2820515.2	26529.10	0.94%	90.94	%
Y	274645.6	1467.01	0.53%	93.98	%
Al 308.215 Rt	94158.8	587.84	0.62%	[100000]	ug/L
Ca 315.887 Rt	982739.2	4433.69	0.45%	[100000]	ug/L
Fe 238.204 Rt	315238.3	2122.39	0.67%	[100000]	ug/L
K 766.490 Rt	274487.8	128.75	0.05%	[100000]	ug/L
Mg 279.077 Rt	149233.1	653.52	0.44%	[100000]	ug/L
Na 589.592 Rt	37169375.6	268516.00	0.72%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	581.8	0.00000	0.999955	
Al 308.215 R	4	Lin Thru 0	0.0	0.9417	0.00000	1.000000	
As 188.979	4	Lin Thru 0	0.0	10.76	0.00000	0.999992	
B 249.677	3	Lin Thru 0	0.0	233.4	0.00000	0.999985	
Ba 233.527	4	Lin Thru 0	0.0	106.9	0.00000	1.000000	
Be 313.107	3	Lin Thru 0	0.0	4933	0.00000	0.999999	
Ca 315.887 R	4	Lin Thru 0	0.0	9.831	0.00000	0.999993	
Cd 214.440	4	Lin Thru 0	0.0	173.9	0.00000	1.000000	
Co 228.616	4	Lin Thru 0	0.0	63.06	0.00000	0.999995	
Cr 267.716	4	Lin Thru 0	0.0	188.7	0.00000	0.999999	
Cu 324.752	4	Lin Thru 0	0.0	220.3	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	3.154	0.00000	0.999991	
K 766.490 R	4	Lin Thru 0	0.0	2.745	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	1.493	0.00000	0.999991	
Mn 257.610	4	Lin Thru 0	0.0	566.7	0.00000	0.999995	
Mo 202.031	4	Lin Thru 0	0.0	47.98	0.00000	0.999992	
Na 589.592 R	4	Lin Thru 0	0.0	371.8	0.00000	0.999994	
Ni 231.604	4	Lin Thru 0	0.0	93.25	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	59.30	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	20.56	0.00000	0.999984	
Se 196.026	4	Lin Thru 0	0.0	15.09	0.00000	0.999975	
Ti 334.940 R	4	Lin Thru 0	0.0	836.7	0.00000	1.000000	
Tl 190.801	4	Lin Thru 0	0.0	10.94	0.00000	1.000000	
V 292.402	4	Lin Thru 0	0.0	228.1	0.00000	0.999995	
Zn 206.200	4	Lin Thru 0	0.0	83.09	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	20.07	0.00000	0.999991	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09
Seqnum : 97421029007
Cal : 97421029001
Standards: S7407

File : 101907r
Caldate : 19-OCT-2007

IDF : 1.0
Time : 19-OCT-2007 09:28

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	21.584	20.482	5000	4980	ug/L	0	10	
Arsenic	A	9.5391	11.147	5000	5180	ug/L	4	10	
Barium	A	109.84	106.78	5000	4996	ug/L	0	10	
Beryllium	A	4979.0	5057.1	500.0	512.6	ug/L	3	10	
Boron	A	221.95	235.82	5000	5051	ug/L	1	10	
Cadmium	A	175.57	172.98	5000	4973	ug/L	-1	10	
Chromium	A	188.98	182.65	5000	4839	ug/L	-3	10	
Cobalt	A	62.357	61.235	5000	4845	ug/L	-3	10	
Copper	A	223.59	214.34	5000	4866	ug/L	-3	10	
Lead	A	68.469	59.370	5000	5006	ug/L	0	10	
Manganese	A	589.49	555.15	5000	4898	ug/L	-2	10	
Molybdenum	A	44.717	47.916	5000	4993	ug/L	0	10	
Nickel	A	93.939	90.495	5000	4852	ug/L	-3	10	
Selenium	A	14.523	15.151	5000	5021	ug/L	0	10	
Silver	A	571.94	549.70	1000	944.8	ug/L	-6	10	
Thallium	A	10.534	10.797	5000	4936	ug/L	-1	10	
Tin	A	19.254	19.852	5000	4947	ug/L	-1	10	
Titanium	A	844.80	813.64	5000	4862	ug/L	-3	10	
Vanadium	A	232.18	222.23	5000	4872	ug/L	-3	10	
Zinc	A	96.889	80.719	5000	4857	ug/L	-3	10	
Aluminum	R	0.9732	0.9332	20000	19820	ug/L	-1	10	
Calcium	R	10.631	9.9653	20000	20270	ug/L	1	10	
Iron	R	3.2938	3.1901	20000	20230	ug/L	1	10	
Magnesium	R	1.5674	1.5442	20000	20690	ug/L	3	10	
Potassium	R	2.7209	2.6965	20000	19650	ug/L	-2	10	
Sodium	R	386.44	384.95	20000	20710	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	2953702	-4.76

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97421029008
Cal : 97421029001
File : 101907r
Caldate : 19-OCT-2007
IDF : 1.0
Time : 19-OCT-2007 09:31

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.195]	5.000	1.074	ug/L	!ib
Arsenic	A	[3.230]	5.000	1.320	ug/L	!ib
Barium	A	[0.1176]	5.000	0.1113	ug/L	!ib
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	[5.940]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.1951]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[1.087]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	[1.490]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[3.311]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	3088330	-0.42

!=warning ib=instrument blank

97421029008

00210

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09
Seqnum : 97421029009 File : 101907r IDF : 1.0
Cal : 97421029001 Caldate : 19-OCT-2007 Time : 19-OCT-2007 09:35
Standards: S7049

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	8.743	5.000	ug/L	
Arsenic	A	[2.217]	5.000	ug/L	
Barium	A	[-0.1504]	5.000	ug/L	
Beryllium	A	[0.01781]	2.000	ug/L	
Boron	A	[-10.72]	100.0	ug/L	
Cadmium	A	[2.146]	5.000	ug/L	
Cobalt	A	[0.3054]	5.000	ug/L	
Lead	A	[-2.677]	3.000	ug/L	
Molybdenum	A	[1.393]	5.000	ug/L	
Selenium	A	[1.182]	5.000	ug/L	
Silver	A	[1.433]	5.000	ug/L	
Thallium	A	[0.5106]	5.000	ug/L	
Tin	A	[-7.037]	40.00	ug/L	
Zinc	A	[19.03]	20.00	ug/L	
Potassium	R	[54.60]	500.0	ug/L	
Sodium	R	[2.643]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19010	ug/L	95
Copper	A	20000	20450	ug/L	102
Manganese	A	20000	18150	ug/L	91
Nickel	A	20000	17660	ug/L	88
Titanium	A	20000	19120	ug/L	96
Vanadium	A	20000	19880	ug/L	99
Aluminum	R	500000	498500	ug/L	100
Calcium	R	500000	492100	ug/L	98
Iron	R	200000	191600	ug/L	96
Magnesium	R	500000	506400	ug/L	101

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	2613918	-15.72

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 97421029010
Cal : 97421029001
Standards: S7324

File : 101907r
Caldate : 19-OCT-2007

IDF : 1.0
Time : 19-OCT-2007 09:49

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	493.3	ug/L	-1	20	
Arsenic	A	500.0	550.7	ug/L	10	20	
Barium	A	500.0	517.2	ug/L	3	20	
Beryllium	A	500.0	533.5	ug/L	7	20	
Cadmium	A	1000	972.0	ug/L	-3	20	
Chromium	A	500.0	491.7	ug/L	-2	20	
Cobalt	A	500.0	453.0	ug/L	-9	20	
Copper	A	500.0	529.4	ug/L	6	20	
Lead	A	1000	876.7	ug/L	-12	20	
Manganese	A	500.0	498.7	ug/L	0	20	
Molybdenum	A	500.0	497.4	ug/L	-1	20	
Nickel	A	1000	922.5	ug/L	-8	20	
Selenium	A	500.0	448.6	ug/L	-10	20	
Silver	A	1000	1049	ug/L	5	20	
Thallium	A	500.0	413.6	ug/L	-17	20	
Titanium	A	20000	18680	ug/L	-7		
Vanadium	A	500.0	522.1	ug/L	4	20	
Zinc	A	1000	950.4	ug/L	-5	20	
Aluminum	R	500000	500500	ug/L	0		
Calcium	R	500000	500400	ug/L	0		
Iron	R	200000	194900	ug/L	-3		
Magnesium	R	500000	517700	ug/L	4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	2595165	-16.32

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 97421029020
Cal : 97421029001
Standards: S7408

File : 101907r
Caldate : 19-OCT-2007

IDF : 1.0
Time : 19-OCT-2007 10:15

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.584	20.377	5000	4955	ug/L	-1	10	
Arsenic	A	9.5391	10.998	5000	5111	ug/L	2	10	
Barium	A	109.84	107.53	5000	5031	ug/L	1	10	
Beryllium	A	4979.0	5087.6	500.0	515.7	ug/L	3	10	
Boron	A	221.95	236.67	5000	5070	ug/L	1	10	
Cadmium	A	175.57	173.83	5000	4997	ug/L	0	10	
Chromium	A	188.98	183.85	5000	4871	ug/L	-3	10	
Cobalt	A	62.357	60.815	5000	4812	ug/L	-4	10	
Copper	A	223.59	215.76	5000	4898	ug/L	-2	10	
Lead	A	68.469	58.109	5000	4900	ug/L	-2	10	
Manganese	A	589.49	557.54	5000	4919	ug/L	-2	10	
Molybdenum	A	44.717	47.378	5000	4937	ug/L	-1	10	
Nickel	A	93.939	90.048	5000	4828	ug/L	-3	10	
Selenium	A	14.523	14.949	5000	4954	ug/L	-1	10	
Silver	A	571.94	536.93	1000	922.9	ug/L	-8	10	
Thallium	A	10.534	10.734	5000	4907	ug/L	-2	10	
Tin	A	19.254	19.723	5000	4914	ug/L	-2	10	
Titanium	A	844.80	817.49	5000	4885	ug/L	-2	10	
Vanadium	A	232.18	223.14	5000	4892	ug/L	-2	10	
Zinc	A	96.889	81.945	5000	4931	ug/L	-1	10	
Aluminum	R	0.9732	0.9198	20000	19540	ug/L	-2	10	
Calcium	R	10.631	9.9456	20000	20230	ug/L	1	10	
Iron	R	3.2938	3.1759	20000	20140	ug/L	1	10	
Magnesium	R	1.5674	1.5418	20000	20650	ug/L	3	10	
Potassium	R	2.7209	2.6793	20000	19520	ug/L	-2	10	
Sodium	R	386.44	367.55	20000	19770	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	2962871	-4.47

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97421029022 File : 101907r IDF : 1.0
Cal : 97421029001 Caldate : 19-OCT-2007 Time : 19-OCT-2007 10:22

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.3151]	5.000	0.1113	ug/L	!ib
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.3200]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.2607]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.3289]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	ND	5.000	0.4140	ug/L	
Nickel	A	[0.5757]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.495]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	3055875	-1.47

!=warning ib=instrument blank

97421029022

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 97421029032
Cal : 97421029001
Standards: S7324

File : 101907r
Caldate : 19-OCT-2007

IDF : 1.0
Time : 19-OCT-2007 11:01

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	508.4	ug/L	2	20	
Arsenic	A	500.0	551.3	ug/L	10	20	
Barium	A	500.0	520.3	ug/L	4	20	
Beryllium	A	500.0	552.4	ug/L	10	20	
Cadmium	A	1000	1031	ug/L	3	20	
Chromium	A	500.0	499.6	ug/L	0	20	
Cobalt	A	500.0	463.2	ug/L	-7	20	
Copper	A	500.0	539.8	ug/L	8	20	
Lead	A	1000	942.3	ug/L	-6	20	
Manganese	A	500.0	519.3	ug/L	4	20	
Molybdenum	A	500.0	500.4	ug/L	0	20	
Nickel	A	1000	955.3	ug/L	-4	20	
Selenium	A	500.0	460.1	ug/L	-8	20	
Silver	A	1000	1094	ug/L	9	20	
Thallium	A	500.0	418.2	ug/L	-16	20	
Titanium	A	20000	19120	ug/L	-4		
Vanadium	A	500.0	527.0	ug/L	5	20	
Zinc	A	1000	998.4	ug/L	0	20	
Aluminum	R	500000	496700	ug/L	-1		
Calcium	R	500000	491400	ug/L	-2		
Iron	R	200000	194900	ug/L	-3		
Magnesium	R	500000	512600	ug/L	3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	2554258	-17.64

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97421029034 File : 101907r Time : 19-OCT-2007 11:08
Cal : 97421029001 Caldate : 19-OCT-2007
Standards: S7408

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.584	20.453	5000	4973	ug/L	-1	10	
Arsenic	A	9.5391	11.131	5000	5173	ug/L	3	10	
Barium	A	109.84	108.09	5000	5057	ug/L	1	10	
Beryllium	A	4979.0	5194.4	500.0	526.5	ug/L	5	10	
Boron	A	221.95	241.58	5000	5175	ug/L	3	10	
Cadmium	A	175.57	177.33	5000	5098	ug/L	2	10	
Chromium	A	188.98	183.91	5000	4873	ug/L	-3	10	
Cobalt	A	62.357	60.892	5000	4817	ug/L	-4	10	
Copper	A	223.59	217.80	5000	4944	ug/L	-1	10	
Lead	A	68.469	59.486	5000	5016	ug/L	0	10	
Manganese	A	589.49	568.66	5000	5018	ug/L	0	10	
Molybdenum	A	44.717	47.442	5000	4944	ug/L	-1	10	
Nickel	A	93.939	91.928	5000	4929	ug/L	-1	10	
Selenium	A	14.523	15.171	5000	5028	ug/L	1	10	
Silver	A	571.94	546.14	1000	938.7	ug/L	-6	10	
Thallium	A	10.534	10.611	5000	4850	ug/L	-3	10	
Tin	A	19.254	19.586	5000	4880	ug/L	-2	10	
Titanium	A	844.80	827.97	5000	4948	ug/L	-1	10	
Vanadium	A	232.18	223.23	5000	4894	ug/L	-2	10	
Zinc	A	96.889	82.734	5000	4978	ug/L	0	10	
Aluminum	R	0.9732	0.9260	20000	19670	ug/L	-2	10	
Calcium	R	10.631	9.9545	20000	20250	ug/L	1	10	
Iron	R	3.2938	3.2037	20000	20320	ug/L	2	10	
Magnesium	R	1.5674	1.5454	20000	20700	ug/L	4	10	
Potassium	R	2.7209	2.6925	20000	19620	ug/L	-2	10	
Sodium	R	386.44	363.51	20000	19550	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	2942212	-5.14

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97421029036 File : 101907r Time : 19-OCT-2007 11:14
Cal : 97421029001 Caldate : 19-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.797]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.8705]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1456]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.8151]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.5837]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.7913]	5.000	0.3034	ug/L	!ib
Copper	A	[2.695]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.8079]	5.000	0.4388	ug/L	!ib
Molybdenum	A	ND	5.000	0.4140	ug/L	
Nickel	A	[1.157]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.251]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[12.28]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[9.676]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	3026872	-2.41

!=warning ib=instrument blank

97421029036

00217

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 97421029046
Cal : 97421029001
Standards: S7324

File : 101907r
Caldate : 19-OCT-2007

IDF : 1.0
Time : 19-OCT-2007 11:44

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	458.9	ug/L	-8	20	
Arsenic	A	500.0	487.5	ug/L	-3	20	
Barium	A	500.0	490.6	ug/L	-2	20	
Beryllium	A	500.0	510.6	ug/L	2	20	
Cadmium	A	1000	930.5	ug/L	-7	20	
Chromium	A	500.0	473.8	ug/L	-5	20	
Cobalt	A	500.0	419.0	ug/L	-16	20	
Copper	A	500.0	516.6	ug/L	3	20	
Lead	A	1000	868.1	ug/L	-13	20	
Manganese	A	500.0	489.0	ug/L	-2	20	
Molybdenum	A	500.0	467.8	ug/L	-6	20	
Nickel	A	1000	856.3	ug/L	-14	20	
Selenium	A	500.0	421.7	ug/L	-16	20	
Silver	A	1000	1055	ug/L	5	20	
Thallium	A	500.0	400.1	ug/L	-20	20	
Titanium	A	20000	18200	ug/L	-9		
Vanadium	A	500.0	503.2	ug/L	1	20	
Zinc	A	1000	879.3	ug/L	-12	20	
Aluminum	R	500000	487600	ug/L	-2		
Calcium	R	500000	467100	ug/L	-7		
Iron	R	200000	179900	ug/L	-10		
Magnesium	R	500000	472700	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	2483189	-19.94

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97421029048 File : 101907r Time : 19-OCT-2007 11:51
Cal : 97421029001 Caldate : 19-OCT-2007
Standards: S7408

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.584	20.314	5000	4939	ug/L	-1	10	
Arsenic	A	9.5391	10.717	5000	4981	ug/L	0	10	
Barium	A	109.84	106.90	5000	5002	ug/L	0	10	
Beryllium	A	4979.0	4958.2	500.0	502.6	ug/L	1	10	
Boron	A	221.95	234.32	5000	5019	ug/L	0	10	
Cadmium	A	175.57	175.36	5000	5041	ug/L	1	10	
Chromium	A	188.98	181.74	5000	4815	ug/L	-4	10	
Cobalt	A	62.357	59.702	5000	4723	ug/L	-6	10	
Copper	A	223.59	213.34	5000	4843	ug/L	-3	10	
Lead	A	68.469	60.262	5000	5081	ug/L	2	10	
Manganese	A	589.49	565.59	5000	4990	ug/L	0	10	
Molybdenum	A	44.717	47.423	5000	4942	ug/L	-1	10	
Nickel	A	93.939	88.931	5000	4768	ug/L	-5	10	
Selenium	A	14.523	14.479	5000	4799	ug/L	-4	10	
Silver	A	571.94	565.11	1000	971.3	ug/L	-3	10	
Thallium	A	10.534	10.295	5000	4706	ug/L	-6	10	
Tin	A	19.254	19.370	5000	4827	ug/L	-3	10	
Titanium	A	844.80	813.75	5000	4863	ug/L	-3	10	
Vanadium	A	232.18	222.07	5000	4868	ug/L	-3	10	
Zinc	A	96.889	76.885	5000	4626	ug/L	-7	10	
Aluminum	R	0.9732	0.9249	20000	19640	ug/L	-2	10	
Calcium	R	10.631	9.6073	20000	19540	ug/L	-2	10	
Iron	R	3.2938	3.1415	20000	19920	ug/L	0	10	
Magnesium	R	1.5674	1.4467	20000	19380	ug/L	-3	10	
Potassium	R	2.7209	2.7139	20000	19780	ug/L	-1	10	
Sodium	R	386.44	380.89	20000	20490	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	2731624	-11.92

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97421029050 File : 101907r Time : 19-OCT-2007 11:58
Cal : 97421029001 Caldate : 19-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.184]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.7187]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1352]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.7722]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.5210]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.6994]	5.000	0.3034	ug/L	!ib
Copper	A	[1.747]	5.000	0.8535	ug/L	!ib
Lead	A	[2.082]	3.000	0.6892	ug/L	!ib
Manganese	A	[0.7519]	5.000	0.4388	ug/L	!ib
Molybdenum	A	ND	5.000	0.4140	ug/L	
Nickel	A	[0.9502]	5.000	0.3660	ug/L	!ib
Selenium	A	[1.953]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.202]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[41.55]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[10.90]	100.0	6.086	ug/L	!ib
Magnesium	R	[18.50]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3101473	2945501	-5.03

!=warning ib=instrument blank

97421029050

00220

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 97421029 Instrument: MET09 PE ICP MET09 Begun: 19-OCT-2007
nalytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL		Stds Used	>LR
01	101907r	ICALBLK				19-OCT-2007 09:09	1.0	1.0					
02	101907r	ICAL	CRIM08			19-OCT-2007 09:13	1.0	1.0				1	
03	101907r	ICAL	CS100			19-OCT-2007 09:17	1.0	1.0				2	
04	101907r	ICAL	CS1K			19-OCT-2007 09:20	1.0	1.0				3	
05	101907r	ICAL	CS10K			19-OCT-2007 09:22	1.0	1.0				4	
06	101907r	ICAL	CS100K			19-OCT-2007 09:25	1.0	1.0				5	
07	101907r	ICV				19-OCT-2007 09:28	1.0	1.0			5000	6	
08	101907r	ICB				19-OCT-2007 09:31	1.0	1.0			5000		
09	101907r	ICSA				19-OCT-2007 09:35	1.0	1.0			5000	7	10:MG=506360
10	101907r	ICSAB				19-OCT-2007 09:49	1.0	1.0			5000	8	5:MG=517743
11	101907r	BLANK	QC411177	130692	Soil	19-OCT-2007 09:52	1.0	50.0			5000		
12	101907r	BS	QC411178	130692	Soil	19-OCT-2007 09:56	1.0	50.0			5000		
13	101907r	BSD	QC411179	130692	Soil	19-OCT-2007 09:58	1.0	50.0			5000		
14	101907r	MSS	198453-002	130692	Soil	19-OCT-2007 10:00	1.0	49.50	5		5000		4:FE=290521
15	101907r	MS	QC411180	130692	Soil	19-OCT-2007 10:02	1.0	48.08			5000		5:FE=318534
16	101907r	MSD	QC411181	130692	Soil	19-OCT-2007 10:04	1.0	50.0			5000		5:FE=331920
17	101907r	SER	QC411182	130692	Soil	19-OCT-2007 10:06	5.0	49.50		1	5000		
18	101907r	X	QC411183	130692	Soil	19-OCT-2007 10:09	1.0	49.50		5	5000	9 10	5:FE=303774
19	101907r	X	RINSE			19-OCT-2007 10:11	1.0						
20	101907r	CCV				19-OCT-2007 10:15	1.0	1.0			5000	11	
21	101907r	X	FLUSH			19-OCT-2007 10:18	1.0						
22	101907r	CCB				19-OCT-2007 10:22	1.0	1.0			5000		
23	101907r	SAMPLE	198514-001	130692	Soil	19-OCT-2007 10:30	10.0	45.45			5000		
24	101907r	MSS	198453-002	130692	Soil	19-OCT-2007 10:34	1.0	49.50	4		5000		4:FE=292481
25	101907r	SAMPLE	198453-008	130692	Soil	19-OCT-2007 10:36	1.0	47.62			5000		5:FE=493686
26	101907r	SAMPLE	198380-001	130692	Soil	19-OCT-2007 10:38	1.0	48.54			5000		2:FE=548408
27	101907r	PDS	QC411183	130692	Soil	19-OCT-2007 10:41	1.0	49.50		1	5000	9 10	5:FE=305457
28	101907r	SAMPLE	198468-001	130692	Miscel	19-OCT-2007 10:43	1.0	45.05			5000		1:FE=560349
29	101907r	SAMPLE	198511-004	130692	Soil	19-OCT-2007 10:47	1.0	47.62			5000		4:FE=429293
30	101907r	SAMPLE	198511-005	130692	Soil	19-OCT-2007 10:49	1.0	45.45	3		5000		4:CA=426499
31	101907r	SAMPLE	198511-006	130692	Soil	19-OCT-2007 10:51	1.0	44.64	3		5000		7:FE=455385

cs used: 1=S7171 2=S7382 3=S7381 4=S7383 5=S7175 6=S7407 7=S7049 8=S7324 9=S6918 10=S6919 11=S7408

nalyst: _____ Date: 10/19/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97421029 Instrument: MET09 PE ICP MET09 Begun: 19-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
32	101907r	ICSAB				19-OCT-2007 11:01	1.0	1.0	5000	8	5:MG=512631
33	101907r	X	RINSE			19-OCT-2007 11:04	1.0				
34	101907r	CCV				19-OCT-2007 11:08	1.0	1.0	5000	11	
35	101907r	X	FLUSH			19-OCT-2007 11:10	1.0				
36	101907r	CCB				19-OCT-2007 11:14	1.0	1.0	5000		
37	101907r	SAMPLE	198492-001	130692	Soil	19-OCT-2007 11:18	1.0	47.17	5000		4:FE=421731
38	101907r	SAMPLE	198492-002	130692	Soil	19-OCT-2007 11:21	1.0	49.02	5000		4:FE=385150
39	101907r	SAMPLE	198492-003	130692	Soil	19-OCT-2007 11:24	1.0	48.54	5000		4:FE=374727
40	101907r	SAMPLE	198492-004	130692	Soil	19-OCT-2007 11:28	1.0	48.08	5000		3:FE=358383
41	101907r	SAMPLE	198492-005	130692	Soil	19-OCT-2007 11:31	1.0	49.50	5000		3:FE=340758
42	101907r	SAMPLE	198491-001	130692	Soil	19-OCT-2007 11:34	1.0	45.05	5000		4:FE=696918
43	101907r	SAMPLE	198491-002	130692	Soil	19-OCT-2007 11:36	1.0	47.62	5000		3:FE=583856
44	101907r	SAMPLE	198495-001	130692	Miscel	19-OCT-2007 11:39	1.0	44.64	5000		1:NA=219552
45	101907r	SAMPLE	198453-008	130692	Soil	19-OCT-2007 11:42	1.0	47.62	5000		5:FE=463322
46	101907r	ICSAB				19-OCT-2007 11:44	1.0	1.0	5000	8	5:AL=487560
47	101907r	X	RINSE			19-OCT-2007 11:47	1.0				
48	101907r	CCV				19-OCT-2007 11:51	1.0	1.0	5000	11	
49	101907r	X	FLUSH			19-OCT-2007 11:54	1.0				
50	101907r	CCB				19-OCT-2007 11:58	1.0	1.0	5000		

Stds used: 1=S7171 2=S7382 3=S7381 4=S7383 5=S7175 6=S7407 7=S7049 8=S7324 9=S6918 10=S6919 11=S7408

Analyst: _____ Date: 10/19/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET06
Calnum : 67422979001
Units : ug/L

Date : 20-OCT-2007 17:59
X Axis : R

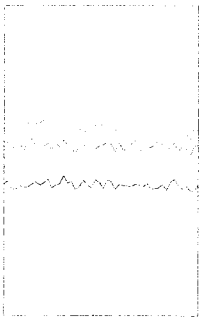
Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	j20r0005	67422979005		20-OCT-2007 18:05	S7371, S7379
L2	j20r0006	67422979006		20-OCT-2007 18:10	S7372, S7379
L3	j20r0007	67422979007		20-OCT-2007 18:16	S7373, S7379
L4	j20r0008	67422979008		20-OCT-2007 18:22	S7374, S7379
L5	j20r0009	67422979009		20-OCT-2007 18:28	S7369, S7379
L6	j20r0010	67422979010		20-OCT-2007 18:34	S7370, S7379

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum	A	0.4373	0.3526	0.3456	0.3217	0.3225	0.3312	BLNK	-1.1528	3.03563		0.3518	1.000	0.995	
Antimony	A	0.1993	0.1420	0.1391	0.1332	0.1378	0.1406	BLNK	-0.0115	7.14148		0.1487	1.000	0.995	
Barium	A	0.0880	0.0390	0.0374	0.0328	0.0325	0.0328	BLNK	-0.0297	30.5729		0.0437	1.000	0.995	
Beryllium	A	0.1050	0.1082	0.1083	0.1105	0.1157	0.1183	BLNK	-0.0006	8.49289		0.1110	1.000	0.995	
Cadmium	A	0.0425	0.0406	0.0395	0.0396	0.0387	0.0391	BLNK	-0.0046	25.6118		0.0400	1.000	0.995	
Calcium	A	0.0302	0.0148	0.0121	0.0101	0.0101	0.0103	BLNK	-11.495	97.8623		0.0146	1.000	0.995	
Lead	A	0.5816	0.4398	0.4046	0.3822	0.3784	0.3835	BLNK	-0.0337	2.61510		0.4283	1.000	0.995	
Magnesium	A	0.3389	0.3055	0.3008	0.2813	0.2781	0.2838	BLNK	-0.9804	3.53837		0.2981	1.000	0.995	
Molybdenum	A	0.1110	0.0987	0.0990	0.0951	0.0940	0.1013	BLNK	-0.0213	10.0166		0.0998	0.999	0.995	
Potassium	A	2.2788	0.7099	0.5210	0.3402	0.3212	0.3256	BLNK	-55.520	3.09004		0.7494	1.000	0.995	
Silver	A	0.3314	0.1675	0.1788	0.1556	0.1590	0.1630	BLNK	-0.0087	6.16753		0.1925	1.000	0.995	
Thallium	A	0.5365	0.4014	0.4003	0.3824	0.4046	0.4117	BLNK	-0.0231	2.43817		0.4228	1.000	0.995	
Arsenic	E	0.3482	0.2622	0.2792	0.2568	0.2532	0.2579	BLNK	-0.0184	3.89216		0.2762	1.000	0.995	
Chromium	E	9.1471	2.9727	2.6902	2.0634	1.9450	1.9902	BLNK	-0.1135	0.50507		3.4681	1.000	0.995	
Cobalt	E	3.6912	3.4002	3.3885	3.2992	3.1655	3.2234	BLNK	-0.0076	0.31135		3.3613	1.000	0.995	
Copper	E	23.732	7.0778	5.6173	3.4478	3.2359	3.2282	BLNK	-0.1472	0.30986		7.7232	1.000	0.995	
Manganese	E	1.5780	1.0125	0.9853	0.9055	0.8632	0.8859	BLNK	-0.0220	1.13474		1.0384	1.000	0.995	
Nickel	E	6.1099	1.6718	1.4732	0.9444	0.8756	0.8598	BLNK	-0.0828	1.15914		1.9891	1.000	0.995	
Sodium	E	2.4989	0.7408	0.5260	0.3290	0.3004	0.3100	BLNK	-62.201	3.25751		0.7842	1.000	0.995	
Vanadium	E	2.4784	1.5370	1.5022	1.3751	1.3460	1.4011	BLNK	-0.0711	0.71970		1.6066	1.000	0.995	
Zinc	E	11.647	3.2170	1.8629	0.6070	0.5175	0.4905	BLNK	-1.2104	2.03052		3.0570	0.999	0.995	
Iron	H	0.5345	0.4339	0.4255	0.4060	0.3958	0.3870	BLNK	-1.4513	2.57241		0.4305	1.000	0.995	
Selenium	H	0.0699	0.0677	0.0725	0.0682	0.0658	0.0638	BLNK	-0.0111	15.5662		0.0680	1.000	0.995	

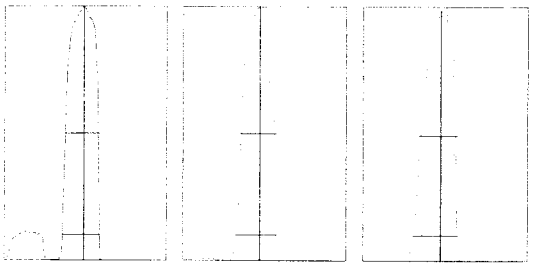
Tune Report

Tune File : nogas.u
Comment :



m/z	Range	Count	Mean	RSD%	Background
7	50,000	21145.0	21007.7	2.60	0.30
89	50,000	27482.0	27267.2	2.18	0.30
205	50,000	29596.0	30322.3	2.49	0.80

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec
n: 50
Oxide: 156/140 0.976%
Doubly Charged: 70/140 1.790%



m/z:	7	89	205
Height:	21,488	27,338	30,138
Axis:	7.00	88.95	204.95
W-50%:	0.65	0.65	0.70
W-10%:	0.700	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec
Y axis : Linear

===Plasma Condition===

RF Power	:	1600 W
RF Matching	:	1.68 V
Smpl Depth	:	8 mm
Torch-H	:	0.4 mm
Torch-V	:	0.4 mm
Carrier Gas	:	1.05 L/min
Makeup Gas	:	0 L/min
Optional Gas	:	--- %
Nebulizer Pump	:	0.1 rps
Sample Pump	:	--- rps
S/C Temp	:	2 degC

===Ion Lenses===

Extract 1	:	0 V
Extract 2	:	-175 V
Omega Bias-ce	:	-28 V
Omega Lens-ce	:	0.4 V
Cell Entrance	:	-30 V
QP Focus	:	7 V
Cell Exit	:	-30 V

===Octopole Parameters===

OctP RF	:	200 V
OctP Bias	:	-6 V

===Q-Pole Parameters===

AMU Gain	:	140
AMU Offset	:	125
Axis Gain	:	1.0018
Axis Offset	:	-0.06
QP Bias	:	-2 V

===Detector Parameters===

Discriminator	:	8 mV
Analog HV	:	1960 V
Pulse HV	:	1600 V

===Reaction Cell===

Reaction Mode : OFF
H2 Gas : 0 mL/min He Gas : 0 mL/min Optional Gas : --- %

Tune File : he.u

		m/z	Count(Mean)	RSD%
He Gas:	5 mL/min	51	8.1	37.48
Optional Gas:	--- %	59	2539.9	2.74
QP Focus:	-10 V	89	1923.9	4.31
Cell Exit:	-38 V			
OctP Bias:	-18 V			
QP Bias:	-16 V			

Integration Time: 0.1000sec

Tune File : h2.u

		m/z	Count(Mean)	RSD%
H2 Gas:	3.5 mL/min	59	2375.1	4.54
Optional Gas:	--- %	78	0.2	231.46
QP Focus:	-10 V	89	15542.0	2.73
Cell Exit:	-38 V			
OctP Bias:	-18 V			
QP Bias:	-16 V			

Integration Time: 0.1000sec

Generated : Oct 20, 2007 14:48:51
Printed : Oct 20, 2007 14:50:30

00225

P/A Factor Tuning Report

Acquired:Oct 20 2007 03:02 pm

Mass[amu]	Element	P/A Factor
6	Li	0.057889
7	(Li)	Sensitivity too low
9	Be	0.065123
23	Na	Sensitivity too high
24	Mg	Sensitivity too high
27	Al	Sensitivity too high
39	K	Sensitivity too high
44	Ca	0.080115
45	Sc	0.079766
51	V	0.080968
52	Cr	0.084340
55	Mn	0.085558
56	Fe	Sensitivity too high
59	Co	0.087137
60	Ni	Sensitivity too low
63	Cu	0.092886
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	0.091678
75	As	Sensitivity too low
78	Se	Sensitivity too low
89	Y	0.090204
98	Mo	0.090218
99	(Ru)	Sensitivity too low
107	Ag	0.097496
111	Cd	Sensitivity too low
115	In	0.096827
118	(In)	0.096078
121	Sb	0.095255
137	Ba	Sensitivity too low
159	Tb	0.098009
205	Tl	0.101413
206	(Pb)	0.102264
207	(Pb)	0.102519
208	Pb	0.102462
209	Bi	0.102535

===Detector Parameters===
Discriminator: 8.0 mV
Analog HV: 1960 V
Pulse HV: 1600 V

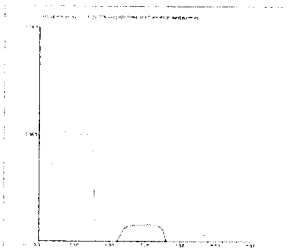
Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Aluminum	A	10.00	21	50.00	5	100.0	4	1000	-2	10000	-2	20000	1
Antimony	A	0.100	31	0.500	-1	1.000	-2	10.00	-5	100.0	-2	200.0	0
Barium	A	0.100	139	0.500	13	1.000	11	10.00	0	100.0	-1	200.0	0
Beryllium	A	0.100	-11	0.500	-8	1.000	-8	10.00	-6	100.0	-2	200.0	0
Cadmium	A	0.100	4	0.500	3	1.000	1	10.00	1	100.0	-1	200.0	0
Calcium	A	10.00	80	50.00	22	100.0	6	1000	-2	10000	-1	20000	0
Lead	A	0.100	18	0.500	8	1.000	2	10.00	0	100.0	-1	200.0	0
Magnesium	A	10.00	10	50.00	6	100.0	5	1000	-1	10000	-2	20000	0
Molybdenum	A	0.100	-10	0.500	-5	1.000	-3	10.00	-5	100.0	-6	200.0	1
Potassium	A	10.00	49	50.00	8	100.0	5	1000	0	10000	-1	20000	0
Silver	A	0.100	96	0.500	2	1.000	9	10.00	-4	100.0	-2	200.0	0
Thallium	A	0.050	-15	0.250	-11	0.500	-7	5.000	-7	50.00	-1	100.0	0
Arsenic	E	0.100	17	0.500	-2	1.000	7	10.00	0	100.0	-1	200.0	0
Chromium	E	0.100	249	0.500	27	1.000	25	10.00	3	100.0	-2	200.0	0
Cobalt	E	0.100	7	0.500	4	1.000	5	10.00	3	100.0	-1	200.0	0
Copper	E	0.100	488	0.500	90	1.000	59	10.00	5	100.0	0	200.0	0
Manganese	E	0.100	57	0.500	10	1.000	10	10.00	3	100.0	-2	200.0	1
Nickel	E	0.100	525	0.500	77	1.000	62	10.00	9	100.0	1	200.0	0
Sodium	E	10.00	92	50.00	17	100.0	9	1000	1	10000	-3	20000	1
Vanadium	E	0.100	7	0.500	-4	1.000	1	10.00	-2	100.0	-3	200.0	1
Zinc	E	0.100	1054	0.500	311	1.000	157	10.00	11	100.0	4	200.0	-1
Iron	H	10.00	23	50.00	9	100.0	8	1000	4	10000	2	20000	0
Selenium	H	0.100	-2	0.500	3	1.000	12	10.00	6	100.0	2	200.0	-1

MET06 QC Tune Report

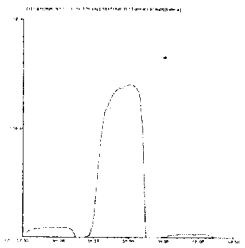
Data File: C:\ICPCHEM\1\DATA\07J20r00.B\001TUNE.D
Date Acquired: Oct 20 2007 05:39 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s7368
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

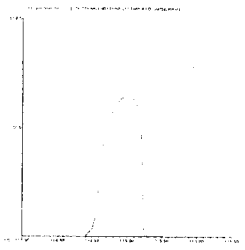
Element	Actual	Required	Flag
7 Li	0.33	5.00	
59 Co	0.79	5.00	
115 In	0.48	5.00	
205 Tl	0.98	5.00	



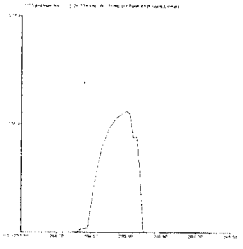
7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 204.95
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:

MET06 Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\07J20r00.B\004CALB.D\004CALB.D#		
Date Acquired:	Oct 20 2007 05:56 pm		
Acq. Method:	icj6020.M	Data Results:	
Operator:		Analytes:	Pass
Sample Name:	calblank	ISTD:	Pass
Misc Info:			
Vial Number:	1101		
Current Method:	C:\ICPCHEM\1\METHODS\icj6020.M		
Calibration File:	C:\ICPCHEM\1\CALIB\icj6020.C		
Last Cal. Update:	Oct 20 2007 06:00 pm		
Sample Type:	CalBlk		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element	IS Ret	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	3.33345	--------	ppb	--------	
23 Na	45	2	16424.35900	--------	ppb	--------	
24 Mg	45	3	11968.38000	--------	ppb	--------	
27 Al	45	3	16399.19900	--------	ppb	--------	
39 K	45	3	775868.50000	--------	ppb	--------	
44 Ca	45	3	5072.21920	--------	ppb	--------	
51 V	45	2	84.81620	--------	ppb	--------	
52 Cr	45	2	193.33720	--------	ppb	--------	
55 Mn	45	2	16.66689	--------	ppb	--------	
56 Fe	45	1	8670.68460	--------	ppb	--------	
59 Co	45	2	21.11138	--------	ppb	--------	
60 Ni	45	2	61.48236	--------	ppb	--------	
63 Cu	72	2	314.45209	--------	ppb	--------	
66 Zn	72	2	394.82559	--------	ppb	--------	
75 As	72	2	3.11114	--------	ppb	--------	
78 Se	72	1	2.44446	--------	ppb	--------	
98 Mo	89	3	136.67270	--------	ppb	--------	
107 Ag	115	3	96.67098	--------	ppb	--------	
111 Cd	115	3	12.22291	--------	ppb	--------	
121 Sb	115	3	110.00460	--------	ppb	--------	
137 Ba	159	3	105.56040	--------	ppb	--------	
205 Tl	209	3	730.05438	--------	ppb	--------	
208 Pb	159	3	1397.86600	--------	ppb	--------	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ret Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2564479.30000	1.82	2564479	100.0	80 - 120	
45 Sc	1	768510.88000	0.50	768511	100.0	80 - 120	
45 Sc	2	43014.84800	1.71	43015	100.0	80 - 120	
45 Sc	3	2159296.80000	1.49	2159297	100.0	80 - 120	
72 Ge	1	171061.47000	0.40	171061	100.0	80 - 120	
72 Ge	2	33113.07400	1.77	33113	100.0	80 - 120	
89 Y	3	3213881.80000	1.79	3213882	100.0	80 - 120	
115 In	3	3403866.00000	1.75	3403866	100.0	80 - 120	
159 Tb	3	5423207.00000	1.77	5423207	100.0	80 - 120	
209 Bi	3	3856134.50000	0.85	3856135	100.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ret File : ---

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\07J20r00.B\005CALS.D\005CALS.D#
Date Acquired:	Oct 20 2007 06:02 pm
Acq. Method:	icj6020.M
Operator:	
Sample Name:	s7371
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\icj6020.M
Calibration File:	C:\ICPCHEM\1\CALIB\icj6020.C
Last Cal. Update:	Oct 20 2007 06:01 pm
Sample Type:	CalStd
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ret	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	535.58411	--------	ppb	--------	
23 Na	45	2	20951.55100	--------	ppb	--------	
24 Mg	45	3	142678.41000	--------	ppb	--------	
27 Al	45	3	184097.20000	--------	ppb	--------	
39 K	45	3	959337.31000	--------	ppb	--------	
44 Ca	45	3	12702.82000	--------	ppb	--------	
51 V	45	2	207.78200	--------	ppb	--------	
52 Cr	45	2	766.69861	--------	ppb	--------	
55 Mn	45	2	132.22459	--------	ppb	--------	
56 Fe	45	1	83891.22700	--------	ppb	--------	
59 Co	45	2	309.63721	--------	ppb	--------	
60 Ni	45	2	512.23810	--------	ppb	--------	
63 Cu	72	2	1530.10210	--------	ppb	--------	
66 Zn	72	2	751.14038	--------	ppb	--------	
75 As	72	2	22.44461	--------	ppb	--------	
78 Se	72	1	24.00021	--------	ppb	--------	
98 Mo	89	3	698.93140	--------	ppb	--------	
107 Ag	115	3	2206.94190	--------	ppb	--------	
111 Cd	115	3	283.34741	--------	ppb	--------	
121 Sb	115	3	1327.89000	--------	ppb	--------	
137 Ba	159	3	934.51501	--------	ppb	--------	
205 Tl	209	3	2032.46200	--------	ppb	--------	
208 Pb	159	3	6176.38720	--------	ppb	--------	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2552565.00000	2.59	2564479	99.5	80 - 120	
45 Sc	1	784837.06000	1.51	768511	102.1	80 - 120	
45 Sc	2	41918.57000	0.78	43015	97.5	80 - 120	
45 Sc	3	2105034.30000	1.01	2159297	97.5	80 - 120	
72 Ge	1	171718.77000	0.37	171061	100.4	80 - 120	
72 Ge	2	32234.74000	0.71	33113	97.3	80 - 120	
89 Y	3	3149151.00000	1.37	3213882	98.0	80 - 120	
115 In	3	3330471.00000	0.87	3403866	97.8	80 - 120	
159 Tb	3	5309755.50000	0.33	5423207	97.9	80 - 120	
209 Bi	3	3788591.30000	1.15	3856135	98.2	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J20r00.B\004CALB.D\004CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07J20r00.B\006CALS.D\006CALS.D#
Date Acquired: Oct 20 2007 06:08 pm
Acq. Method: icj6020.M
Operator:
Sample Name: s7372
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\icj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\icj6020.C
Last Cal. Update: Oct 20 2007 06:07 pm
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	2794.81810	0.51760	ppb	5.22	
23 Na	45	2	31443.11900	30.45000	ppb	1.53	
24 Mg	45	3	651645.50000	48.19000	ppb	1.69	
27 Al	45	3	752088.63000	43.20000	ppb	2.12	
39 K	45	3	1514228.00000	36.35000	ppb	3.79	
44 Ca	45	3	31663.98000	33.90000	ppb	2.21	
51 V	45	2	652.24670	0.44930	ppb	3.84	
52 Cr	45	2	1261.55400	0.18280	ppb	1.59	
55 Mn	45	2	430.38300	0.35180	ppb	10.87	
56 Fe	45	1	336383.81000	44.19000	ppb	1.80	
59 Co	45	2	1442.68400	0.48620	ppb	2.07	
60 Ni	45	2	709.28601	0.14170	ppb	4.49	
63 Cu	72	2	2302.81100	0.16140	ppb	3.11	
66 Zn	72	2	1047.08900	0.17810	ppb	5.88	
75 As	72	2	85.33431	0.41980	ppb	12.98	
78 Se	72	1	115.55700	0.52780	ppb	9.14	
98 Mo	89	3	3147.14990	0.52610	ppb	2.62	
107 Ag	115	3	5634.70210	0.25960	ppb	3.35	
111 Cd	115	3	1365.67600	0.49390	ppb	2.65	
121 Sb	115	3	4775.46480	0.37870	ppb	2.01	
137 Ba	159	3	2063.57100	0.23660	ppb	3.30	
205 Tl	209	3	7608.08890	0.26180	ppb	2.25	
208 Pb	159	3	23278.11900	0.45720	ppb	1.80	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2583198.00000	1.20	2564479	100.7	80 - 120	
45 Sc	1	775441.31000	1.41	768511	100.9	80 - 120	
45 Sc	2	42441.61300	2.20	43015	98.7	80 - 120	
45 Sc	3	2133670.50000	2.22	2159297	98.8	80 - 120	
72 Ge	1	170732.19000	0.39	171061	99.8	80 - 120	
72 Ge	2	32547.33000	2.05	33113	98.3	80 - 120	
89 Y	3	3190804.00000	1.79	3213882	99.3	80 - 120	
115 In	3	3364205.80000	1.40	3403866	98.8	80 - 120	
159 Tb	3	5293987.50000	1.14	5423207	97.6	80 - 120	
209 Bi	3	3791359.50000	1.18	3856135	98.3	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J20r00.B\004CALB.D\004CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\07J20r00.B\007CALS.D\007CALS.D#		
Date Acquired:	Oct 20 2007 06:14 pm		
Acq. Method:	1cj6020.M	Data Results:	
Operator:		Analytes:	Pass
Sample Name:	s7373	ISTD:	Pass
Misc Into:			
Vial Number:	1104		
Current Method:	C:\ICPCHEM\1\METHODS\1cj6020.M		
Calibration File:	C:\ICPCHEM\1\CALIB\1cj6020.C		
Last Cal. Update:	Oct 20 2007 06:12 pm		
Sample Type:	CalStd		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element	IS Ret	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	5533.45610	1.00300	ppb	0.42	
23 Na	45	2	44953.66000	91.08000	ppb	1.04	
24 Mg	45	3	1285144.00000	99.23000	ppb	1.69	
27 Al	45	3	1476355.00000	98.48000	ppb	1.26	
39 K	45	3	2225716.00000	95.99000	ppb	2.21	
44 Ca	45	3	51505.62100	85.53000	ppb	1.26	
51 V	45	2	1283.40800	1.04300	ppb	2.01	
52 Cr	45	2	2299.47710	0.91600	ppb	1.41	
55 Mn	45	2	842.62842	0.97620	ppb	4.12	
56 Fe	45	1	665694.81000	98.86000	ppb	2.05	
59 Co	45	2	2894.77910	1.00300	ppb	3.08	
60 Ni	45	2	1259.33200	0.83560	ppb	2.40	
63 Cu	72	2	3694.23390	0.77650	ppb	0.61	
66 Zn	72	2	1225.62400	0.58500	ppb	7.59	
75 As	72	2	183.55820	1.07800	ppb	5.40	
78 Se	72	1	249.11540	1.08600	ppb	4.67	
98 Mo	89	3	6260.53810	1.02800	ppb	1.87	
107 Ag	115	3	11967.94000	1.04000	ppb	0.16	
111 Cd	115	3	2647.03100	0.97750	ppb	4.22	
121 Sb	115	3	9311.32910	0.97880	ppb	1.33	
137 Ba	159	3	3949.62210	0.94190	ppb	1.05	
205 Tl	209	3	15040.41000	0.52550	ppb	2.64	
208 Pb	159	3	42777.41000	0.94280	ppb	0.97	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2554929.80000	1.08	2564479	99.6	80 - 120	
45 Sc	1	782395.31000	1.82	768511	101.8	80 - 120	
45 Sc	2	42730.64800	2.68	43015	99.3	80 - 120	
45 Sc	3	2136075.00000	0.82	2159297	98.9	80 - 120	
72 Ge	1	171766.36000	0.49	171061	100.4	80 - 120	
72 Ge	2	32881.10900	1.30	33113	99.3	80 - 120	
89 Y	3	3163634.00000	1.49	3213882	98.4	80 - 120	
115 In	3	3347332.00000	0.62	3403866	98.3	80 - 120	
159 Tb	3	5286480.50000	0.83	5423207	97.5	80 - 120	
209 Bi	3	3757449.50000	0.62	3856135	97.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ret File : C:\ICPCHEM\1\DATA\07J20r00.B\004CALB.D\004CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07J20r00.B\008CALS.D\008CALS.D#
Date Acquired: Oct 20 2007 06:20 pm
Acq. Method: icj6020.M
Operator:
Sample Name: s7374
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\icj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\icj6020.C
Last Cal. Update: Oct 20 2007 06:18 pm
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	56710.55900	10.22000	ppb	0.29	
23 Na	45	2	289124.69000	906.80000	ppb	1.12	
24 Mg	45	3	12281280.00000	941.30000	ppb	1.33	
27 Al	45	3	14044090.00000	937.00000	ppb	1.49	
39 K	45	3	14851790.00000	935.90000	ppb	1.31	
44 Ca	45	3	440497.91000	885.40000	ppb	1.57	
51 V	45	2	12084.17000	9.81200	ppb	1.64	
52 Cr	45	2	18131.78900	8.12400	ppb	0.75	
55 Mn	45	2	7957.51220	9.30800	ppb	2.06	
56 Fe	45	1	6397787.00000	963.40000	ppb	0.52	
59 Co	45	2	28991.83000	9.80500	ppb	0.85	
60 Ni	45	2	8298.45900	6.42500	ppb	1.50	
63 Cu	72	2	23251.26000	6.24200	ppb	0.57	
66 Zn	72	2	4093.23800	3.76900	ppb	0.78	
75 As	72	2	1731.89790	9.47900	ppb	1.70	
78 Se	72	1	2350.66210	9.64400	ppb	2.43	
98 Mo	89	3	61322.73000	9.84900	ppb	0.80	
107 Ag	115	3	105310.70000	8.83400	ppb	1.52	
111 Cd	115	3	26839.48000	10.02000	ppb	0.75	
121 Sb	115	3	90165.28900	9.63300	ppb	1.23	
137 Ba	159	3	35361.05900	8.88000	ppb	0.83	
205 Tl	209	3	144631.50000	5.03900	ppb	1.07	
208 Pb	159	3	411811.59000	9.60400	ppb	0.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2565936.30000	0.66	2564479	100.1	80 - 120	
45 Sc	1	787829.06000	0.80	768511	102.5	80 - 120	
45 Sc	2	43936.50800	0.58	43015	102.1	80 - 120	
45 Sc	3	2183356.80000	2.00	2159297	101.1	80 - 120	
72 Ge	1	172353.06000	0.16	171061	100.8	80 - 120	
72 Ge	2	33718.99200	0.39	33113	101.8	80 - 120	
89 Y	3	3225747.30000	0.54	3213882	100.4	80 - 120	
115 In	3	3384972.80000	1.02	3403866	99.4	80 - 120	
159 Tb	3	5387338.00000	0.43	5423207	99.3	80 - 120	
209 Bi	3	3782812.50000	0.91	3856135	98.1	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J20r00.B\004CALB.D\004CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\07J20r00.B\009CALS.D\009CALS.D#		
Date Acquired:	Oct 20 2007 06:26 pm		
Acq. Method:	icj6020.M	Data Results:	
Operator:		Analytes:	Pass
Sample Name:	s7369	ISTD:	Pass
Misc Info:			
Vial Number:	1106		
Current Method:	C:\ICPCHEM\1\METHODS\icj6020.M		
Calibration File:	C:\ICPCHEM\1\CALIB\icj6020.C		
Last Cal. Update:	Oct 20 2007 06:24 pm		
Sample Type:	CalStd		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element	IS Ref	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	618437.88000	104.70000	ppb	0.30	
23 Na	45	2	2835760.00000	9620.00000	ppb	0.47	
24 Mg	45	3	127355400.00000	9889.00000	ppb	0.22	
27 Al	45	3	147690900.00000	10030.00000	ppb	0.72	
39 K	45	3	147084800.00000	9905.00000	ppb	0.53	
44 Ca	45	3	4629881.00000	10110.00000	ppb	0.70	
51 V	45	2	127045.90000	98.50000	ppb	0.63	
52 Cr	45	2	183583.20000	94.92000	ppb	0.37	
55 Mn	45	2	81475.15600	95.42000	ppb	0.63	
56 Fe	45	1	66131380.00000	9756.00000	ppb	0.64	
59 Co	45	2	298794.31000	95.99000	ppb	0.58	
60 Ni	45	2	82653.38300	92.70000	ppb	0.37	
63 Cu	72	2	227894.50000	94.32000	ppb	0.32	
66 Zn	72	2	36443.76200	91.57000	ppb	0.61	
75 As	72	2	17832.78900	98.69000	ppb	1.14	
78 Se	72	1	23801.52000	96.59000	ppb	0.62	
98 Mo	89	3	626594.50000	99.08000	ppb	0.56	
107 Ag	115	3	1073315.00000	102.10000	ppb	0.55	
111 Cd	115	3	261136.41000	97.61000	ppb	0.47	
121 Sb	115	3	930311.31000	103.50000	ppb	1.46	
137 Ba	159	3	350408.69000	99.06000	ppb	0.61	
205 Tl	209	3	1470449.00000	53.15000	ppb	0.29	
208 Pb	159	3	4083146.00000	99.25000	ppb	0.37	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2673699.00000	0.69	2564479	104.3	80 - 120	
45 Sc	1	835373.38000	0.21	768511	108.7	80 - 120	
45 Sc	2	47195.12500	1.52	43015	109.7	80 - 120	
45 Sc	3	2289468.80000	0.49	2159297	106.0	80 - 120	
72 Ge	1	180757.83000	0.31	171061	105.7	80 - 120	
72 Ge	2	35213.04300	0.59	33113	106.3	80 - 120	
89 Y	3	3332842.80000	0.78	3213882	103.7	80 - 120	
115 In	3	3375551.50000	0.86	3403866	99.2	80 - 120	
159 Tb	3	5395355.00000	1.25	5423207	99.5	80 - 120	
209 Bi	3	3634205.30000	0.92	3856135	94.2	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J20r00.B\004CALB.D\004CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\07J20r00.B\010CALS.D\010CALS.D#		
Date Acquired:	Oct 20 2007 06:32 pm		
Acq. Method:	icj6020.M	Data Results:	
Operator:		Analytes:	Pass
Sample Name:	s7370	ISTD:	Pass
Misc Info:			
Vial Number:	1107		
Current Method:	C:\ICPCHEM\1\METHODS\icj6020.M		
Calibration File:	C:\ICPCHEM\1\CALIB\icj6020.C		
Last Cal. Update:	Oct 20 2007 06:30 pm		
Sample Type:	CalStd		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element	IS Ref	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	1219176.00000	204.70000	ppb	0.68	
23 Na	45	2	5669945.00000	20700.00000	ppb	0.99	
24 Mg	45	3	251861600.00000	20400.00000	ppb	1.21	
27 Al	45	3	293983200.00000	20540.00000	ppb	0.68	
39 K	45	3	288975900.00000	20330.00000	ppb	1.02	
44 Ca	45	3	9102780.00000	20300.00000	ppb	0.50	
51 V	45	2	256226.80000	208.20000	ppb	0.54	
52 Cr	45	2	363943.19000	204.70000	ppb	0.45	
55 Mn	45	2	162000.50000	205.20000	ppb	1.06	
56 Fe	45	1	130135100.00000	19550.00000	ppb	1.71	
59 Co	45	2	589475.38000	203.60000	ppb	0.49	
60 Ni	45	2	157233.00000	196.30000	ppb	0.50	
63 Cu	72	2	433834.69000	199.50000	ppb	1.20	
66 Zn	72	2	65926.61700	190.50000	ppb	0.61	
75 As	72	2	34660.32800	203.70000	ppb	0.31	
78 Se	72	1	44787.46100	193.90000	ppb	1.99	
98 Mo	89	3	1277308.00000	215.60000	ppb	1.19	
107 Ag	115	3	2065407.00000	205.00000	ppb	0.75	
111 Cd	115	3	496011.59000	202.30000	ppb	0.38	
121 Sb	115	3	1782194.00000	204.20000	ppb	0.68	
137 Ba	159	3	667356.63000	201.90000	ppb	0.71	
205 Tl	209	3	2762425.00000	101.80000	ppb	1.12	
208 Pb	159	3	7809071.00000	202.70000	ppb	0.07	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2576827.80000	0.96	2564479	100.5	80 - 120	
45 Sc	1	840936.00000	2.15	768511	109.4	80 - 120	
45 Sc	2	45717.99600	0.62	43015	106.3	80 - 120	
45 Sc	3	2219255.80000	1.66	2159297	102.8	80 - 120	
72 Ge	1	175427.52000	1.40	171061	102.6	80 - 120	
72 Ge	2	33600.18000	1.18	33113	101.5	80 - 120	
89 Y	3	3151960.30000	1.19	3213882	98.1	80 - 120	
115 In	3	3168617.80000	0.82	3403866	93.1	80 - 120	
159 Tb	3	5090811.00000	1.18	5423207	93.9	80 - 120	
209 Bi	3	3354943.30000	1.61	3856135	87.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J20r00.B\004CALB.D\004CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979014 File : j20r0014 Time : 20-OCT-2007 19:01
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7375, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	A	0.3518	0.3141	10000	9533	ug/L	-5	10	
Antimony	A	0.1487	0.1284	100.0	91.65	ug/L	-8	10	
Barium	A	0.0437	0.0311	100.0	95.19	ug/L	-5	10	
Beryllium	A	0.1110	0.1131	100.0	96.08	ug/L	-4	10	
Cadmium	A	0.0400	0.0378	100.0	96.91	ug/L	-3	10	
Calcium	A	0.0146	0.0098	10000	9618	ug/L	-4	10	
Lead	A	0.4283	0.3429	100.0	89.63	ug/L	-10	10	
Magnesium	A	0.2981	0.2744	10000	9709	ug/L	-3	10	
Molybdenum	A	0.0998	0.0911	100.0	91.20	ug/L	-9	10	
Potassium	A	0.7494	0.3144	10000	9660	ug/L	-3	10	
Silver	A	0.1925	0.1634	100.0	100.7	ug/L	1	10	
Thallium	A	0.4228	0.3791	50.00	46.20	ug/L	-8	10	
Arsenic	E	0.2762	0.2523	100.0	98.19	ug/L	-2	10	
Chromium	E	3.4681	1.9305	100.0	97.39	ug/L	-3	10	
Cobalt	E	3.3613	3.1339	100.0	97.57	ug/L	-2	10	
Copper	E	7.7232	3.1408	100.0	97.17	ug/L	-3	10	
Manganese	E	1.0384	0.8442	100.0	95.78	ug/L	-4	10	
Nickel	E	1.9891	0.8556	100.0	99.10	ug/L	-1	10	
Sodium	E	0.7842	0.3013	10000	9754	ug/L	-2	10	
Vanadium	E	1.6066	1.3407	100.0	96.42	ug/L	-4	10	
Zinc	E	3.0570	0.5326	100.0	106.9	ug/L	7	10	
Iron	H	0.4305	0.3772	10000	9701	ug/L	-3	10	
Selenium	H	0.0680	0.0638	100.0	99.36	ug/L	-1	10	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2694669	5.08
Scandium	A	2159297	2266091	4.95
Scandium	E	43015	46223	7.46
Scandium	H	768511	832118	8.28
Germanium	H	171062	176542	3.20
Germanium	E	33113	34439	4.00
Indium	A	3403866	3205881	-5.82
Bismuth	A	3856135	3433861	-10.95
Yttrium	A	3213882	3156010	-1.80
Terbium	A	5423207	5048147	-6.92

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06
Seqnum : 67422979017
Cal : 67422979001
File : j20r0017
Caldate : 20-OCT-2007
IDF : 1.0
Time : 20-OCT-2007 19:19

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.01773]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.01722]	0.1000	0.002857	ug/L	!ib
Magnesium	A	ND	10.00	3.328	ug/L	
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	ND	10.00	7.074	ug/L	
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.02896]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.01301]	0.1000	0.0001137	ug/L	!ib
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.01446]	0.1000	0.004522	ug/L	!ib
Nickel	E	[0.004507]	0.1000	0.001252	ug/L	!ib
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	ND	0.1000	0.004672	ug/L	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2887055	12.58
Scandium	A	2159297	2347351	8.71
Scandium	E	43015	47156	9.63
Scandium	H	768511	830396	8.05
Germanium	H	171062	181118	5.88
Germanium	E	33113	35461	7.09
Indium	A	3403866	3448670	1.32
Bismuth	A	3856135	3739681	-3.02
Yttrium	A	3213882	3321734	3.36
Terbium	A	5423207	5308585	-2.11

!=warning ib=instrument blank

67422979017

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979018 File : j20r0018 Time : 20-OCT-2007 19:25
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7377, S7379

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	1.560	0.1000	ug/L	
Barium	A	38.63	0.1000	ug/L	
Beryllium	A	[0.06044]	0.1000	ug/L	
Cadmium	A	1.238	0.1000	ug/L	
Lead	A	0.5122	0.1000	ug/L	
Silver	A	0.2140	0.1000	ug/L	
Thallium	A	0.07687	0.05000	ug/L	
Arsenic	E	0.2172	0.1000	ug/L	
Chromium	E	1.492	0.1000	ug/L	
Cobalt	E	0.2391	0.1000	ug/L	
Copper	E	1.625	0.1000	ug/L	
Manganese	E	1.100	0.1000	ug/L	
Nickel	E	1.619	0.1000	ug/L	
Vanadium	E	[0.09685]	0.1000	ug/L	
Zinc	E	58.77	0.1000	ug/L	
Selenium	H	0.1038	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	86520	ug/L	87
Calcium	A	300000	262600	ug/L	88
Magnesium	A	100000	84790	ug/L	85
Molybdenum	A	2000	1725	ug/L	86
Potassium	A	100000	86410	ug/L	86
Sodium	E	250000	227900	ug/L	91
Iron	H	250000	223500	ug/L	89

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2575951	0.45
Scandium	A	2159297	2364903	9.52
Scandium	E	43015	48326	12.35
Scandium	H	768511	793316	3.23
Germanium	H	171062	156496	-8.51
Germanium	E	33113	33443	1.00
Indium	A	3403866	3076611	-9.61
Bismuth	A	3856135	2871589	-25.53
Yttrium	A	3213882	3204243	-0.30
Terbium	A	5423207	4986311	-8.06

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979019 File : j20r0019 Time : 20-OCT-2007 19:31
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7378, S7379

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	108300	ug/L	8		
Cadmium	A	100.0	92.13	ug/L	-8	20	
Calcium	A	300000	336000	ug/L	12		
Magnesium	A	100000	105700	ug/L	6		
Molybdenum	A	2000	2192	ug/L	10		
Potassium	A	100000	109400	ug/L	9		
Silver	A	50.00	44.93	ug/L	-10	20	
Arsenic	E	100.0	104.1	ug/L	4	20	
Chromium	E	200.0	202.9	ug/L	1	20	
Cobalt	E	200.0	184.5	ug/L	-8	20	
Copper	E	200.0	181.7	ug/L	-9	20	
Manganese	E	200.0	202.2	ug/L	1	20	
Nickel	E	200.0	176.4	ug/L	-12	20	
Sodium	E	250000	297400	ug/L	19		
Vanadium	E	200.0	209.8	ug/L	5	20	
Zinc	E	100.0	87.32	ug/L	-13	20	
Iron	H	250000	291600	ug/L	17		
Selenium	H	100.0	99.70	ug/L	0	20	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	768511	714263	-7.06
Scandium	A	2159297	2249506	4.18
Scandium	E	43015	45671	6.17
Germanium	H	171062	141339	-17.38
Germanium	E	33113	30894	-6.70
Indium	A	3403866	2909081	-14.54
Yttrium	A	3213882	3057066	-4.88

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979037 File : j20r0037 Time : 20-OCT-2007 21:21
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3518	0.3175	10000	9637	ug/L	-4	10	
Antimony	A	0.1487	0.1258	100.0	89.80	ug/L	-10	10	
Barium	A	0.0437	0.0313	100.0	95.81	ug/L	-4	10	
Beryllium	A	0.1110	0.1166	100.0	98.99	ug/L	-1	10	
Cadmium	A	0.0400	0.0374	100.0	95.85	ug/L	-4	10	
Calcium	A	0.0146	0.0098	10000	9602	ug/L	-4	10	
Lead	A	0.4283	0.3364	100.0	87.93	ug/L	-12	10	c- ***
Magnesium	A	0.2981	0.2739	10000	9689	ug/L	-3	10	
Molybdenum	A	0.0998	0.0908	100.0	90.93	ug/L	-9	10	
Potassium	A	0.7494	0.3163	10000	9718	ug/L	-3	10	
Silver	A	0.1925	0.1635	100.0	100.9	ug/L	1	10	
Thallium	A	0.4228	0.3774	50.00	45.98	ug/L	-8	10	
Arsenic	E	0.2762	0.2534	100.0	98.62	ug/L	-1	10	
Chromium	E	3.4681	1.8981	100.0	95.75	ug/L	-4	10	
Cobalt	E	3.3613	3.0847	100.0	96.03	ug/L	-4	10	
Copper	E	7.7232	3.1865	100.0	98.59	ug/L	-1	10	
Manganese	E	1.0384	0.8342	100.0	94.63	ug/L	-5	10	
Nickel	E	1.9891	0.8399	100.0	97.27	ug/L	-3	10	
Sodium	E	0.7842	0.2933	10000	9491	ug/L	-5	10	
Vanadium	E	1.6066	1.3215	100.0	95.04	ug/L	-5	10	
Zinc	E	3.0570	0.5244	100.0	105.3	ug/L	5	10	
Iron	H	0.4305	0.3765	10000	9683	ug/L	-3	10	
Selenium	H	0.0680	0.0633	100.0	98.45	ug/L	-2	10	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2727313	6.35
Scandium	A	2159297	2337369	8.25
Scandium	E	43015	47869	11.28
Scandium	H	768511	791845	3.04
Germanium	H	171062	169018	-1.19
Germanium	E	33113	34788	5.06
Indium	A	3403866	3206865	-5.79
Bismuth	A	3856135	3328657	-13.68
Yttrium	A	3213882	3204316	-0.30
Terbium	A	5423207	4995139	-7.89

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979040 File : j20r0040 Time : 20-OCT-2007 21:40
Cal : 67422979001 Caldate : 20-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.03988]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.03811]	0.1000	0.002857	ug/L	!ib
Magnesium	A	[4.973]	10.00	3.328	ug/L	!ib
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	[7.270]	10.00	7.074	ug/L	!ib
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.06065]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.04739]	0.1000	0.0001137	ug/L	!ib
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.06038]	0.1000	0.004522	ug/L	!ib
Nickel	E	[0.03288]	0.1000	0.001252	ug/L	!ib
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.04386]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2715393	5.88
Scandium	A	2159297	2270802	5.16
Scandium	E	43015	48444	12.62
Scandium	H	768511	781542	1.70
Germanium	H	171062	169884	-0.69
Germanium	E	33113	35512	7.24
Indium	A	3403866	3197979	-6.05
Bismuth	A	3856135	3421274	-11.28
Yttrium	A	3213882	3138547	-2.34
Terbium	A	5423207	4939284	-8.92

!=warning ib=instrument blank

67422979040

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979049 File : j20r0049 Time : 20-OCT-2007 22:33
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3518	0.3205	10000	9729	ug/L	-3	10	
Antimony	A	0.1487	0.1240	100.0	88.52	ug/L	**-11**	10	c- ***
Barium	A	0.0437	0.0313	100.0	95.71	ug/L	-4	10	
Beryllium	A	0.1110	0.1133	100.0	96.24	ug/L	-4	10	
Cadmium	A	0.0400	0.0371	100.0	95.05	ug/L	-5	10	
Calcium	A	0.0146	0.0097	10000	9488	ug/L	-5	10	
Lead	A	0.4283	0.3340	100.0	87.32	ug/L	**-13**	10	c- ***
Magnesium	A	0.2981	0.2798	10000	9900	ug/L	-1	10	
Molybdenum	A	0.0998	0.0907	100.0	90.81	ug/L	-9	10	
Potassium	A	0.7494	0.3175	10000	9754	ug/L	-2	10	
Silver	A	0.1925	0.1622	100.0	100.0	ug/L	0	10	
Thallium	A	0.4228	0.3759	50.00	45.80	ug/L	-8	10	
Arsenic	E	0.2762	0.2504	100.0	97.42	ug/L	-3	10	
Chromium	E	3.4681	1.8646	100.0	94.06	ug/L	-6	10	
Cobalt	E	3.3613	3.0132	100.0	93.81	ug/L	-6	10	
Copper	E	7.7232	3.1945	100.0	98.84	ug/L	-1	10	
Manganese	E	1.0384	0.8248	100.0	93.57	ug/L	-6	10	
Nickel	E	1.9891	0.8226	100.0	95.27	ug/L	-5	10	
Sodium	E	0.7842	0.2888	10000	9344	ug/L	-7	10	
Vanadium	E	1.6066	1.2915	100.0	92.87	ug/L	-7	10	
Zinc	E	3.0570	0.5250	100.0	105.4	ug/L	5	10	
Iron	H	0.4305	0.3630	10000	9335	ug/L	-7	10	
Selenium	H	0.0680	0.0609	100.0	94.74	ug/L	-5	10	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2618628	2.11
Scandium	A	2159297	2184490	1.17
Scandium	E	43015	47036	9.35
Scandium	H	768511	767567	-0.12
Germanium	H	171062	161509	-5.58
Germanium	E	33113	33282	0.51
Indium	A	3403866	2936774	-13.72
Bismuth	A	3856135	3031724	-21.38
Yttrium	A	3213882	2929875	-8.84
Terbium	A	5423207	4549453	-16.11

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979051 File : j20r0051 Time : 20-OCT-2007 22:46
Cal : 67422979001 Caldate : 20-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.01425]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.01696]	0.1000	0.002857	ug/L	!ib
Magnesium	A	ND	10.00	3.328	ug/L	
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	ND	10.00	7.074	ug/L	
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.02933]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.02103]	0.1000	0.0001137	ug/L	!ib
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.04219]	0.1000	0.004522	ug/L	!ib
Nickel	E	[0.003109]	0.1000	0.001252	ug/L	!ib
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.005926]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2648104	3.26
Scandium	A	2159297	2195804	1.69
Scandium	E	43015	47950	11.47
Scandium	H	768511	747460	-2.74
Germanium	H	171062	162326	-5.11
Germanium	E	33113	34385	3.84
Indium	A	3403866	3013346	-11.47
Bismuth	A	3856135	3203044	-16.94
Yttrium	A	3213882	2969461	-7.61
Terbium	A	5423207	4574887	-15.64

!=warning ib=instrument blank

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979062 File : j20r0062 Time : 20-OCT-2007 23:51
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3518	0.3280	10000	9956	ug/L	0	10	
Antimony	A	0.1487	0.1253	100.0	89.47	ug/L	**-11**	10	c- ***
Barium	A	0.0437	0.0320	100.0	97.95	ug/L	-2	10	
Beryllium	A	0.1110	0.1186	100.0	100.7	ug/L	1	10	
Cadmium	A	0.0400	0.0375	100.0	96.12	ug/L	-4	10	
Calcium	A	0.0146	0.0098	10000	9573	ug/L	-4	10	
Lead	A	0.4283	0.3373	100.0	88.18	ug/L	**-12**	10	c- ***
Magnesium	A	0.2981	0.2855	10000	10100	ug/L	1	10	
Molybdenum	A	0.0998	0.0915	100.0	91.67	ug/L	-8	10	
Potassium	A	0.7494	0.3209	10000	9859	ug/L	-1	10	
Silver	A	0.1925	0.1671	100.0	103.0	ug/L	3	10	
Thallium	A	0.4228	0.3772	50.00	45.96	ug/L	-8	10	
Arsenic	E	0.2762	0.2486	100.0	96.74	ug/L	-3	10	
Chromium	E	3.4681	1.8297	100.0	92.30	ug/L	-8	10	i+ ***
Cobalt	E	3.3613	2.9582	100.0	92.09	ug/L	-8	10	i+ ***
Copper	E	7.7232	3.1500	100.0	97.46	ug/L	-3	10	
Manganese	E	1.0384	0.8185	100.0	92.85	ug/L	-7	10	i+ ***
Nickel	E	1.9891	0.8102	100.0	93.83	ug/L	-6	10	i+ ***
Sodium	E	0.7842	0.2889	10000	9349	ug/L	-7	10	i+ ***
Vanadium	E	1.6066	1.2772	100.0	91.85	ug/L	-8	10	i+ ***
Zinc	E	3.0570	0.5190	100.0	104.2	ug/L	4	10	
Iron	H	0.4305	0.3709	10000	9539	ug/L	-5	10	
Selenium	H	0.0680	0.0624	100.0	97.06	ug/L	-3	10	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2928185	14.18
Scandium	A	2159297	2406251	11.44
Scandium	E	43015	51689	**20.17 ***
Scandium	H	768511	794826	3.42
Germanium	H	171062	167885	-1.86
Germanium	E	33113	36148	9.17
Indium	A	3403866	3111719	-8.58
Bismuth	A	3856135	3177637	-17.60
Yttrium	A	3213882	3143446	-2.19
Terbium	A	5423207	4769886	-12.05

+=high bias -=low bias c=CCV i=ISTD failure

67422979062

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979064 File : j20r0064 Time : 21-OCT-2007 00:03
Cal : 67422979001 Caldate : 20-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.05066]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.04506]	0.1000	0.002857	ug/L	!ib
Magnesium	A	[4.646]	10.00	3.328	ug/L	!ib
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	10.67	10.00	7.074	ug/L	ib ***
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.03249]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.03818]	0.1000	0.0001137	ug/L	!ib i+ ***
Cobalt	E	ND	0.1000	0	ug/L	i+ ***
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.02784]	0.1000	0.004522	ug/L	!ib i+ ***
Nickel	E	[0.01623]	0.1000	0.001252	ug/L	!ib i+ ***
Sodium	E	ND	10.00	7.900	ug/L	i+ ***
Vanadium	E	ND	0.1000	0	ug/L	i+ ***
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.01520]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2755846	7.46
Scandium	A	2159297	2242362	3.85
Scandium	E	43015	51798	**20.42 ***
Scandium	H	768511	796613	3.66
Germanium	H	171062	170818	-0.14
Germanium	E	33113	36540	10.35
Indium	A	3403866	3066192	-9.92
Bismuth	A	3856135	3246763	-15.80
Yttrium	A	3213882	3020858	-6.01
Terbium	A	5423207	4617816	-14.85

!=warning +=high bias i=ISTD failure ib=instrument blank

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979076 File : j20r0076 Time : 21-OCT-2007 01:14
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3518	0.3265	10000	9911	ug/L	-1	10	
Antimony	A	0.1487	0.1264	100.0	90.27	ug/L	-10	10	
Barium	A	0.0437	0.0315	100.0	96.42	ug/L	-4	10	
Beryllium	A	0.1110	0.1142	100.0	96.96	ug/L	-3	10	
Cadmium	A	0.0400	0.0374	100.0	95.75	ug/L	-4	10	
Calcium	A	0.0146	0.0097	10000	9505	ug/L	-5	10	
Lead	A	0.4283	0.3380	100.0	88.37	ug/L	**-12**	10	c- ***
Magnesium	A	0.2981	0.2849	10000	10080	ug/L	1	10	
Molybdenum	A	0.0998	0.0908	100.0	90.92	ug/L	-9	10	
Potassium	A	0.7494	0.3183	10000	9779	ug/L	-2	10	
Silver	A	0.1925	0.1572	100.0	96.93	ug/L	-3	10	
Thallium	A	0.4228	0.3715	50.00	45.26	ug/L	-9	10	
Arsenic	E	0.2762	0.2522	100.0	98.13	ug/L	-2	10	
Chromium	E	3.4681	1.8325	100.0	92.44	ug/L	-8	10	
Cobalt	E	3.3613	2.9658	100.0	92.33	ug/L	-8	10	
Copper	E	7.7232	3.1400	100.0	97.15	ug/L	-3	10	
Manganese	E	1.0384	0.8200	100.0	93.03	ug/L	-7	10	
Nickel	E	1.9891	0.8133	100.0	94.19	ug/L	-6	10	
Sodium	E	0.7842	0.2935	10000	9499	ug/L	-5	10	
Vanadium	E	1.6066	1.2913	100.0	92.87	ug/L	-7	10	
Zinc	E	3.0570	0.5178	100.0	103.9	ug/L	4	10	
Iron	H	0.4305	0.3755	10000	9657	ug/L	-3	10	
Selenium	H	0.0680	0.0622	100.0	96.82	ug/L	-3	10	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2305564	-10.10
Scandium	A	2159297	1917231	-11.21
Scandium	E	43015	43777	1.77
Scandium	H	768511	646310	-15.90
Germanium	H	171062	139473	-18.47
Germanium	E	33113	30722	-7.22
Indium	A	3403866	2554304	-24.96
Bismuth	A	3856135	2710380	-29.71
Yttrium	A	3213882	2560596	-20.33
Terbium	A	5423207	4009115	-26.07

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979079 File : j20r0079 Time : 21-OCT-2007 01:32
Cal : 67422979001 Caldate : 20-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.02419]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.02188]	0.1000	0.002857	ug/L	!ib
Magnesium	A	16.73	10.00	3.328	ug/L	ib ***
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	[8.280]	10.00	7.074	ug/L	!ib
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.01611]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.05565]	0.1000	0.0001137	ug/L	!ib
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.03588]	0.1000	0.004522	ug/L	!ib
Nickel	E	[0.05999]	0.1000	0.001252	ug/L	!ib
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.02403]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2332728	-9.04
Scandium	A	2159297	1848156	-14.41
Scandium	E	43015	43987	2.26
Scandium	H	768511	644210	-16.17
Germanium	H	171062	143516	-16.10
Germanium	E	33113	31268	-5.57
Indium	A	3403866	2576092	-24.32
Bismuth	A	3856135	2797748	-27.45
Yttrium	A	3213882	2483836	-22.72
Terbium	A	5423207	3945542	-27.25

!=warning ib=instrument blank

67422979079

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979081 File : j20r0081 Time : 21-OCT-2007 01:44
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7377, S7379

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	1.583	0.1000	ug/L	
Barium	A	39.81	0.1000	ug/L	
Beryllium	A	[0.03717]	0.1000	ug/L	
Cadmium	A	1.444	0.1000	ug/L	
Lead	A	0.5053	0.1000	ug/L	
Silver	A	0.2039	0.1000	ug/L	
Thallium	A	[0.04942]	0.05000	ug/L	
Arsenic	E	0.2845	0.1000	ug/L	
Chromium	E	1.641	0.1000	ug/L	
Cobalt	E	0.2350	0.1000	ug/L	
Copper	E	1.631	0.1000	ug/L	
Manganese	E	1.188	0.1000	ug/L	
Nickel	E	1.784	0.1000	ug/L	
Vanadium	E	[0.08691]	0.1000	ug/L	
Zinc	E	57.85	0.1000	ug/L	
Selenium	H	[0.04937]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	89950	ug/L	90
Calcium	A	300000	266900	ug/L	89
Magnesium	A	100000	87600	ug/L	88
Molybdenum	A	2000	1757	ug/L	88
Potassium	A	100000	89580	ug/L	90
Sodium	E	250000	221500	ug/L	89
Iron	H	250000	225700	ug/L	90

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2200833	-14.18
Scandium	A	2159297	2069428	-4.16
Scandium	E	43015	44875	4.32
Scandium	H	768511	633657	-17.55
Germanium	H	171062	128591	-24.83
Germanium	E	33113	30724	-7.21
Indium	A	3403866	2643112	-22.35
Bismuth	A	3856135	2507237	-34.98
Yttrium	A	3213882	2773359	-13.71
Terbium	A	5423207	4274756	-21.18

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979082 File : j20r0082 Time : 21-OCT-2007 01:50
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7378, S7379

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	110900	ug/L	11		
Cadmium	A	100.0	93.41	ug/L	-7	20	
Calcium	A	300000	340100	ug/L	13		
Magnesium	A	100000	107100	ug/L	7		
Molybdenum	A	2000	2232	ug/L	12		
Potassium	A	100000	112700	ug/L	13		
Silver	A	50.00	45.87	ug/L	-8	20	
Arsenic	E	100.0	104.0	ug/L	4	20	
Chromium	E	200.0	204.0	ug/L	2	20	
Cobalt	E	200.0	185.8	ug/L	-7	20	
Copper	E	200.0	181.9	ug/L	-9	20	
Manganese	E	200.0	201.8	ug/L	1	20	
Nickel	E	200.0	178.4	ug/L	-11	20	
Sodium	E	250000	288500	ug/L	15		
Vanadium	E	200.0	210.7	ug/L	5	20	
Zinc	E	100.0	87.11	ug/L	-13	20	
Iron	H	250000	292400	ug/L	17		
Selenium	H	100.0	99.96	ug/L	0	20	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	768511	577993	-24.79
Scandium	A	2159297	1944417	-9.95
Scandium	E	43015	41459	-3.62
Germanium	H	171062	116568	-31.86
Germanium	E	33113	28457	-14.06
Indium	A	3403866	2553900	-24.97
Yttrium	A	3213882	2669197	-16.95

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979096 File : j20r0096 Time : 21-OCT-2007 03:15
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3518	0.3125	10000	9485	ug/L	-5	10	
Antimony	A	0.1487	0.1244	100.0	88.85	ug/L	**-11**	10	c- ***
Barium	A	0.0437	0.0313	100.0	95.60	ug/L	-4	10	
Beryllium	A	0.1110	0.1144	100.0	97.18	ug/L	-3	10	
Cadmium	A	0.0400	0.0367	100.0	93.90	ug/L	-6	10	
Calcium	A	0.0146	0.0096	10000	9396	ug/L	-6	10	
Lead	A	0.4283	0.3330	100.0	87.04	ug/L	**-13**	10	c- ***
Magnesium	A	0.2981	0.2691	10000	9521	ug/L	-5	10	
Molybdenum	A	0.0998	0.0906	100.0	90.68	ug/L	-9	10	
Potassium	A	0.7494	0.3144	10000	9659	ug/L	-3	10	
Silver	A	0.1925	0.1554	100.0	95.86	ug/L	-4	10	
Thallium	A	0.4228	0.3649	50.00	44.46	ug/L	**-11**	10	c- ***
Arsenic	E	0.2762	0.2503	100.0	97.38	ug/L	-3	10	
Chromium	E	3.4681	1.8324	100.0	92.43	ug/L	-8	10	
Cobalt	E	3.3613	2.9788	100.0	92.74	ug/L	-7	10	
Copper	E	7.7232	3.0842	100.0	95.42	ug/L	-5	10	
Manganese	E	1.0384	0.8179	100.0	92.78	ug/L	-7	10	
Nickel	E	1.9891	0.8164	100.0	94.55	ug/L	-5	10	
Sodium	E	0.7842	0.2832	10000	9164	ug/L	-8	10	
Vanadium	E	1.6066	1.2881	100.0	92.64	ug/L	-7	10	
Zinc	E	3.0570	0.5062	100.0	101.6	ug/L	2	10	
Iron	H	0.4305	0.3800	10000	9773	ug/L	-2	10	
Selenium	H	0.0680	0.0627	100.0	97.65	ug/L	-2	10	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2019787	-21.24
Scandium	A	2159297	1822785	-15.58
Scandium	E	43015	41354	-3.86
Scandium	H	768511	578719	-24.70
Germanium	H	171062	128554	-24.85
Germanium	E	33113	29942	-9.58
Indium	A	3403866	2537021	-25.47
Bismuth	A	3856135	2681083	-30.47
Yttrium	A	3213882	2515532	-21.73
Terbium	A	5423207	3996873	-26.30

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979098 File : j20r0098 Time : 21-OCT-2007 03:26
Cal : 67422979001 Caldate : 20-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.006586]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.01435]	0.1000	0.002857	ug/L	!ib
Magnesium	A	ND	10.00	3.328	ug/L	
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	ND	10.00	7.074	ug/L	
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.02511]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.01732]	0.1000	0.0001137	ug/L	!ib
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.02378]	0.1000	0.004522	ug/L	!ib
Nickel	E	[0.009187]	0.1000	0.001252	ug/L	!ib
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.03142]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	2030104	-20.84
Scandium	A	2159297	1774164	-17.84
Scandium	E	43015	40848	-5.04
Scandium	H	768511	596261	-22.41
Germanium	H	171062	134351	-21.46
Germanium	E	33113	29905	-9.69
Indium	A	3403866	2553686	-24.98
Bismuth	A	3856135	2778791	-27.94
Yttrium	A	3213882	2465412	-23.29
Terbium	A	5423207	3905833	-27.98

!=warning ib=instrument blank

67422979098

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979111 File : j20r0111 Time : 21-OCT-2007 04:45
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3518	0.2863	10000	8691	ug/L	**-13**	10	c- ***
Antimony	A	0.1487	0.1127	100.0	80.47	ug/L	**-20**	10	c- ***
Barium	A	0.0437	0.0284	100.0	86.65	ug/L	**-13**	10	c- ***
Beryllium	A	0.1110	0.1086	100.0	92.19	ug/L	-8	10	
Cadmium	A	0.0400	0.0337	100.0	86.19	ug/L	**-14**	10	c- ***
Calcium	A	0.0146	0.0087	10000	8495	ug/L	**-15**	10	c- ***
Lead	A	0.4283	0.3066	100.0	80.15	ug/L	**-20**	10	c- ***
Magnesium	A	0.2981	0.2474	10000	8754	ug/L	**-12**	10	c- ***
Molybdenum	A	0.0998	0.0830	100.0	83.15	ug/L	**-17**	10	c- ***
Potassium	A	0.7494	0.2842	10000	8725	ug/L	**-13**	10	c- ***
Silver	A	0.1925	0.1426	100.0	87.96	ug/L	**-12**	10	c- ***
Thallium	A	0.4228	0.3313	50.00	40.37	ug/L	**-19**	10	c- ***
Arsenic	E	0.2762	0.2463	100.0	95.84	ug/L	-4	10	
Chromium	E	3.4681	1.7864	100.0	90.11	ug/L	-10	10	
Cobalt	E	3.3613	2.9077	100.0	90.52	ug/L	-9	10	
Copper	E	7.7232	3.0472	100.0	94.27	ug/L	-6	10	
Manganese	E	1.0384	0.8002	100.0	90.78	ug/L	-9	10	
Nickel	E	1.9891	0.8008	100.0	92.74	ug/L	-7	10	
Sodium	E	0.7842	0.2762	10000	8934	ug/L	**-11**	10	c- ***
Vanadium	E	1.6066	1.2637	100.0	90.88	ug/L	-9	10	
Zinc	E	3.0570	0.4972	100.0	99.75	ug/L	0	10	
Iron	H	0.4305	0.3556	10000	9147	ug/L	-9	10	
Selenium	H	0.0680	0.0588	100.0	91.56	ug/L	-8	10	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	1976640	-22.92
Scandium	A	2159297	1811588	-16.10
Scandium	E	43015	40816	-5.11
Scandium	H	768511	599242	-22.03
Germanium	H	171062	128944	-24.62
Germanium	E	33113	29071	-12.21
Indium	A	3403866	2514376	-26.13
Bismuth	A	3856135	2641812	-31.49
Yttrium	A	3213882	2501004	-22.18
Terbium	A	5423207	3984696	-26.53

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979113 File : j20r0113 Time : 21-OCT-2007 04:57
Cal : 67422979001 Caldate : 20-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	0.1432	0.1000	0	ug/L	ib ***
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.03544]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.04195]	0.1000	0.002857	ug/L	!ib
Magnesium	A	[3.976]	10.00	3.328	ug/L	!ib
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	ND	10.00	7.074	ug/L	
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.03564]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.02350]	0.1000	0.0001137	ug/L	!ib
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.04346]	0.1000	0.004522	ug/L	!ib
Nickel	E	[0.03007]	0.1000	0.001252	ug/L	!ib
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	[5.895]	10.00	4.329	ug/L	!ib
Selenium	H	[0.04442]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	1844656	-28.07
Scandium	A	2159297	1600313	-25.89
Scandium	E	43015	38431	-10.66
Scandium	H	768511	517588	-32.65
Germanium	H	171062	118278	-30.86
Germanium	E	33113	27891	-15.77
Indium	A	3403866	2342442	-31.18
Bismuth	A	3856135	2582941	-33.02
Yttrium	A	3213882	2249300	-30.01
Terbium	A	5423207	3616363	-33.32

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979116 File : j20r0116 Time : 21-OCT-2007 05:15
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7377, S7379

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	1.612	0.1000	ug/L	
Barium	A	40.69	0.1000	ug/L	
Beryllium	A	[0.03593]	0.1000	ug/L	
Cadmium	A	1.325	0.1000	ug/L	
Lead	A	0.5262	0.1000	ug/L	
Silver	A	0.1855	0.1000	ug/L	
Thallium	A	[0.04674]	0.05000	ug/L	
Arsenic	E	0.2687	0.1000	ug/L	
Chromium	E	1.508	0.1000	ug/L	
Cobalt	E	0.2204	0.1000	ug/L	
Copper	E	1.615	0.1000	ug/L	
Manganese	E	1.124	0.1000	ug/L	
Nickel	E	1.622	0.1000	ug/L	
Vanadium	E	[0.06462]	0.1000	ug/L	
Zinc	E	56.68	0.1000	ug/L	
Selenium	H	[0.08413]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	88970	ug/L	89
Calcium	A	300000	268700	ug/L	90
Magnesium	A	100000	85480	ug/L	85
Molybdenum	A	2000	1770	ug/L	89
Potassium	A	100000	89620	ug/L	90
Sodium	E	250000	218800	ug/L	88
Iron	H	250000	230400	ug/L	92

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	1735832	-32.31
Scandium	A	2159297	1738378	-19.49
Scandium	E	43015	39066	-9.18
Scandium	H	768511	522209	-32.05
Germanium	H	171062	108973	-36.30
Germanium	E	33113	27759	-16.17
Indium	A	3403866	2320428	-31.83
Bismuth	A	3856135	2259190	-41.41
Yttrium	A	3213882	2419784	-24.71
Terbium	A	5423207	3800026	-29.93

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979117 File : j20r0117 Time : 21-OCT-2007 05:21
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7378, S7379

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	110500	ug/L	11		
Cadmium	A	100.0	95.74	ug/L	-4	20	
Calcium	A	300000	344300	ug/L	15		
Magnesium	A	100000	106400	ug/L	6		
Molybdenum	A	2000	2257	ug/L	13		
Potassium	A	100000	114200	ug/L	14		
Silver	A	50.00	46.81	ug/L	-6	20	
Arsenic	E	100.0	102.8	ug/L	3	20	
Chromium	E	200.0	202.4	ug/L	1	20	
Cobalt	E	200.0	187.1	ug/L	-6	20	
Copper	E	200.0	179.6	ug/L	-10	20	
Manganese	E	200.0	200.6	ug/L	0	20	
Nickel	E	200.0	179.6	ug/L	-10	20	
Sodium	E	250000	281400	ug/L	13		
Vanadium	E	200.0	209.4	ug/L	5	20	
Zinc	E	100.0	84.74	ug/L	-15	20	
Iron	H	250000	292700	ug/L	17		
Selenium	H	100.0	100.2	ug/L	0	20	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	768511	501174	-34.79
Scandium	A	2159297	1689471	-21.76
Scandium	E	43015	37161	-13.61
Germanium	H	171062	103206	-39.67
Germanium	E	33113	26075	-21.25
Indium	A	3403866	2281580	-32.97
Yttrium	A	3213882	2375901	-26.07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979136 File : j20r0136 Time : 21-OCT-2007 07:16
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3518	0.3062	10000	9294	ug/L	-7	10	
Antimony	A	0.1487	0.1237	100.0	88.35	ug/L	**-12**	10	c- ***
Barium	A	0.0437	0.0308	100.0	94.06	ug/L	-6	10	
Beryllium	A	0.1110	0.1140	100.0	96.81	ug/L	-3	10	
Cadmium	A	0.0400	0.0365	100.0	93.44	ug/L	-7	10	
Calcium	A	0.0146	0.0096	10000	9413	ug/L	-6	10	
Lead	A	0.4283	0.3385	100.0	88.50	ug/L	**-12**	10	c- ***
Magnesium	A	0.2981	0.2625	10000	9289	ug/L	-7	10	
Molybdenum	A	0.0998	0.0896	100.0	89.77	ug/L	-10	10	
Potassium	A	0.7494	0.3110	10000	9555	ug/L	-4	10	
Silver	A	0.1925	0.1526	100.0	94.10	ug/L	-6	10	
Thallium	A	0.4228	0.3583	50.00	43.66	ug/L	**-13**	10	c- ***
Arsenic	E	0.2762	0.2476	100.0	96.36	ug/L	-4	10	
Chromium	E	3.4681	1.8514	100.0	93.40	ug/L	-7	10	
Cobalt	E	3.3613	3.0362	100.0	94.52	ug/L	-5	10	
Copper	E	7.7232	3.0596	100.0	94.66	ug/L	-5	10	
Manganese	E	1.0384	0.8257	100.0	93.67	ug/L	-6	10	
Nickel	E	1.9891	0.8275	100.0	95.84	ug/L	-4	10	
Sodium	E	0.7842	0.2821	10000	9126	ug/L	-9	10	
Vanadium	E	1.6066	1.2963	100.0	93.23	ug/L	-7	10	
Zinc	E	3.0570	0.5042	100.0	101.2	ug/L	1	10	
Iron	H	0.4305	0.3823	10000	9833	ug/L	-2	10	
Selenium	H	0.0680	0.0625	100.0	97.29	ug/L	-3	10	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	1675128	-34.68
Scandium	A	2159297	1558726	-27.81
Scandium	E	43015	34970	-18.70
Scandium	H	768511	493036	-35.85
Germanium	H	171062	111468	-34.84
Germanium	E	33113	25980	-21.54
Indium	A	3403866	2281748	-32.97
Bismuth	A	3856135	2495519	-35.28
Yttrium	A	3213882	2239418	-30.32
Terbium	A	5423207	3660453	-32.50

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979138 File : j20r0138 Time : 21-OCT-2007 07:28
Cal : 67422979001 Caldate : 20-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.02674]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.03211]	0.1000	0.002857	ug/L	!ib
Magnesium	A	[4.383]	10.00	3.328	ug/L	!ib
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	ND	10.00	7.074	ug/L	
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.03426]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.03325]	0.1000	0.0001137	ug/L	!ib
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.03985]	0.1000	0.004522	ug/L	!ib
Nickel	E	[0.02931]	0.1000	0.001252	ug/L	!ib
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.03238]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	1627374	-36.54
Scandium	A	2159297	1486288	-31.17
Scandium	E	43015	34802	-19.09
Scandium	H	768511	485394	-36.84
Germanium	H	171062	111526	-34.80
Germanium	E	33113	26193	-20.90
Indium	A	3403866	2275532	-33.15
Bismuth	A	3856135	2547902	-33.93
Yttrium	A	3213882	2163984	-32.67
Terbium	A	5423207	3534983	-34.82

!=warning ib=instrument blank

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979144 File : j20r0144 Time : 21-OCT-2007 08:04
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3518	0.3108	10000	9434	ug/L	-6	10	
Antimony	A	0.1487	0.1233	100.0	88.01	ug/L	**-12**	10	c- ***
Barium	A	0.0437	0.0309	100.0	94.50	ug/L	-6	10	
Beryllium	A	0.1110	0.1162	100.0	98.71	ug/L	-1	10	
Cadmium	A	0.0400	0.0364	100.0	93.15	ug/L	-7	10	
Calcium	A	0.0146	0.0096	10000	9381	ug/L	-6	10	
Lead	A	0.4283	0.3410	100.0	89.13	ug/L	**-11**	10	c- ***
Magnesium	A	0.2981	0.2651	10000	9379	ug/L	-6	10	
Molybdenum	A	0.0998	0.0897	100.0	89.80	ug/L	-10	10	
Potassium	A	0.7494	0.3106	10000	9541	ug/L	-5	10	
Silver	A	0.1925	0.1543	100.0	95.16	ug/L	-5	10	
Thallium	A	0.4228	0.3598	50.00	43.84	ug/L	**-12**	10	c- ***
Arsenic	E	0.2762	0.2479	100.0	96.46	ug/L	-4	10	
Chromium	E	3.4681	1.8252	100.0	92.07	ug/L	-8	10	
Cobalt	E	3.3613	2.9927	100.0	93.17	ug/L	-7	10	
Copper	E	7.7232	3.0636	100.0	94.78	ug/L	-5	10	
Manganese	E	1.0384	0.8283	100.0	93.97	ug/L	-6	10	
Nickel	E	1.9891	0.8218	100.0	95.17	ug/L	-5	10	
Sodium	E	0.7842	0.2768	10000	8955	ug/L	-10	10	
Vanadium	E	1.6066	1.2811	100.0	92.13	ug/L	-8	10	
Zinc	E	3.0570	0.5033	100.0	101.0	ug/L	1	10	
Iron	H	0.4305	0.3838	10000	9872	ug/L	-1	10	
Selenium	H	0.0680	0.0628	100.0	97.72	ug/L	-2	10	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	1568757	-38.83
Scandium	A	2159297	1460870	-32.35
Scandium	E	43015	33728	-21.59
Scandium	H	768511	463173	-39.73
Germanium	H	171062	104663	-38.82
Germanium	E	33113	24776	-25.18
Indium	A	3403866	2142089	-37.07
Bismuth	A	3856135	2342169	-39.26
Yttrium	A	3213882	2102772	-34.57
Terbium	A	5423207	3432230	-36.71

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979146 File : j20r0146 Time : 21-OCT-2007 08:16
Cal : 67422979001 Caldate : 20-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.02836]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.03614]	0.1000	0.002857	ug/L	!ib
Magnesium	A	[4.428]	10.00	3.328	ug/L	!ib
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	ND	10.00	7.074	ug/L	
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.02879]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.03035]	0.1000	0.0001137	ug/L	!ib
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.02673]	0.1000	0.004522	ug/L	!ib
Nickel	E	[0.02851]	0.1000	0.001252	ug/L	!ib
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.02502]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	1561456	-39.11
Scandium	A	2159297	1430688	-33.74
Scandium	E	43015	33172	-22.88
Scandium	H	768511	452691	-41.10
Germanium	H	171062	105350	-38.41
Germanium	E	33113	24808	-25.08
Indium	A	3403866	2158692	-36.58
Bismuth	A	3856135	2449725	-36.47
Yttrium	A	3213882	2065080	-35.74
Terbium	A	5423207	3388535	-37.52

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979149 File : j20r0149 Time : 21-OCT-2007 08:34
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7377, S7379

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	1.595	0.1000	ug/L	
Barium	A	41.29	0.1000	ug/L	
Beryllium	A	[0.03230]	0.1000	ug/L	
Cadmium	A	1.432	0.1000	ug/L	
Lead	A	0.5365	0.1000	ug/L	
Silver	A	0.1916	0.1000	ug/L	
Thallium	A	[0.04512]	0.05000	ug/L	
Arsenic	E	0.2476	0.1000	ug/L	
Chromium	E	1.495	0.1000	ug/L	
Cobalt	E	0.2129	0.1000	ug/L	
Copper	E	1.620	0.1000	ug/L	
Manganese	E	1.093	0.1000	ug/L	
Nickel	E	1.591	0.1000	ug/L	
Vanadium	E	[0.06064]	0.1000	ug/L	
Zinc	E	57.05	0.1000	ug/L	
Selenium	H	[0.08675]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	90070	ug/L	90
Calcium	A	300000	274800	ug/L	92
Magnesium	A	100000	86480	ug/L	86
Molybdenum	A	2000	1809	ug/L	90
Potassium	A	100000	91910	ug/L	92
Sodium	E	250000	217200	ug/L	87
Iron	H	250000	231400	ug/L	93

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2564479	1578755	-38.44
Scandium	A	2159297	1589958	-26.37
Scandium	E	43015	35252	-18.05
Scandium	H	768511	469585	-38.90
Germanium	H	171062	98928	-42.17
Germanium	E	33113	25356	-23.43
Indium	A	3403866	2183515	-35.85
Bismuth	A	3856135	2129996	-44.76
Yttrium	A	3213882	2246306	-30.11
Terbium	A	5423207	3548582	-34.57

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67422979150 File : j20r0150 Time : 21-OCT-2007 08:40
Cal : 67422979001 Caldate : 20-OCT-2007
Standards: S7378, S7379

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	111400	ug/L	11		
Cadmium	A	100.0	95.51	ug/L	-4	20	
Calcium	A	300000	346800	ug/L	16		
Magnesium	A	100000	105700	ug/L	6		
Molybdenum	A	2000	2273	ug/L	14		
Potassium	A	100000	115300	ug/L	15		
Silver	A	50.00	47.15	ug/L	-6	20	
Arsenic	E	100.0	103.3	ug/L	3	20	
Chromium	E	200.0	205.6	ug/L	3	20	
Cobalt	E	200.0	191.9	ug/L	-4	20	
Copper	E	200.0	178.9	ug/L	-11	20	
Manganese	E	200.0	202.5	ug/L	1	20	
Nickel	E	200.0	184.6	ug/L	-8	20	
Sodium	E	250000	278600	ug/L	11		
Vanadium	E	200.0	213.6	ug/L	7	20	
Zinc	E	100.0	83.95	ug/L	-16	20	
Iron	H	250000	298000	ug/L	19		
Selenium	H	100.0	102.2	ug/L	2	20	

ISTD (ICALBLK j20r0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	768511	421402	-45.17
Scandium	A	2159297	1504649	-30.32
Scandium	E	43015	32676	-24.04
Germanium	H	171062	89385	-47.75
Germanium	E	33113	23648	-28.58
Indium	A	3403866	2090642	-38.58
Yttrium	A	3213882	2170671	-32.46

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 67422979

Date : 10/20/07
Sequence : MET06 j20r0

Reference : j20r0004
Analyzed : 10/20/07 17:59

#	Type	Sample ID	LI A	SC A	SC E	SC H	GE H	GE E	IN A	BI A	Y A	TB A
		IB+ICALBLK STD	2564479	2159297	43015	768511	171062	33113	3403866	3856135	3213882	5423207
		LOWER LIMIT	769344	647789	12904	230553	51318	9934	1021160	1156841	964165	1626962
		UPPER LIMIT	3077375	2591156	51618	922213	205274	39736	4084639	4627362	3856658	6507848
017	ICB		2887055	2347351	47156	830396	181118	35461	3448670	3739681	3321734	5308585
018	ICSA		2575951	2364903	48326	793316	156496	33443	3076611	2871589	3204243	4986311
019	ICSAB		2417242	2249506	45671	714263	141339	30894	2909081	2680040	3057066	4716345
024	BLANK	QC411184	2450701	2146583	43493	746626	163574	32880	3302828	3636836	3145480	5177007
025	BLANK	QC411394	2402530	2110632	43210	727620	162144	32977	3263781	3569899	3113720	5144961
026	BS	QC411395	2638042	2279700	47289	734180	164165	35320	3362794	3597140	3293951	5295887
027	BSD	QC411396	2617003	2273608	47251	781808	168896	35492	3356758	3569051	3259311	5216484
029	BS	QC411185	2763754	2347983	48764	800644	172657	36160	3380340	3581260	3311574	5245425
030	BSD	QC411186	2818326	2411619	49884	786682	170862	36619	3434521	3611339	3366053	5303209
032	MSS	198380-002	2727740	2295089	50237	805891	174261	36660	3295675	3548336	3241958	5054969
033	SER	QC411399	3202168 *	2799555 *	51297	811868	176365	37610	3927047	4086651	3850476	6020489
037	CCV		2727313	2337369	47869	791845	169018	34788	3206865	3328657	3204316	4995139
040	CCB		2715393	2270802	48444	781542	169884	35512	3197979	3421274	3138547	4939284
043	MS	QC411397	2690614	2305963	49927	791863	170408	36329	3187960	3383634	3180677	4862805
044	MSD	QC411398	2700026	2300996	48930	786196	168371	35544	3162862	3356945	3178857	4847680
045	PDS	QC411400	2657098	2259095	50084	783918	165565	34856	3006880	3128758	3057567	4701284
049	CCV		2618628	2184490	47036	767567	161509	33282	2936774	3031724	2929875	4549453
051	CCB		2648104	2195804	47950	747460	162326	34385	3013346	3203044	2969461	4574887
054	MSS	198388-001	2855704	2350658	50859	763189	162467	36037	3078603	3197320	3083610	4754180
056	MS	QC411324	2748345	2253659	49861	783470	163913	34903	2956599	3096857	2968229	4636853
057	MSD	QC411325	2725709	2274979	50292	809299	168894	35535	3023865	3139145	3023817	4712992
062	CCV		2928185	2406251	51689 *	794826	167885	36148	3111719	3177637	3143446	4769886
064	CCB		2755846	2242362	51798 *	796613	170818	36540	3066192	3246763	3020858	4617816
066	MSS	198379-005	2098475	1966276	47328	779729	137054	28009	2255799	2308156	2314712	3672451
067	SER	QC410997	2285913	1912590	45595	708254	145399	30548	2493262	2622295	2508585	3959806
068	MS	QC410995	2198720	1972474	46794	703451	134563	29491	2375396	2361611	2470620	3828263
069	MSD	QC410996	2027330	1896011	44989	682790	125734	27514	2253422	2269208	2344303	3669641
070	PDS	QC410998	1900634	1868267	44311	671564	119885	25930	2162796	2213443	2231630	3565328
076	CCV		2305564	1917231	43777	646310	139473	30722	2554304	2710380	2560596	4009115
079	CCB		2332728	1848156	43987	644210	143516	31268	2576092	2797748	2483836	3945542
081	ICSA		2200833	2069428	44875	633657	128591	30724	2643112	2507237	2773359	4274756
082	ICSAB		1957791	1944417	41459	577993	116568	28457	2553900	2380373	2669197	4118411
088	MSS	198380-002	2073430	1978204	44044	599520	130839	31271	2753342	2965653	3086213	4370816
089	SER	QC411399	2233239	2029836	45320	639231	142835	33435	2915830	3128006	2933750	4488849
090	MS	QC411397	2072294	1930240	41901	602409	128378	29962	2671212	2831438	2990780	4257702
091	MSD	QC411398	2050480	1978271	43572	618289	129871	30728	2680621	2841693	3052379	4221669
092	PDS	QC411400	1885196	1851117	42496	599580	126152	29777	2500591	2662494	2849797	4022483
096	CCV		2019787	1822785	41354	578719	128554	29942	2537021	2681083	2515532	3996873
098	CCB		2030104	1774164	40848	596261	134351	29905	2553686	2778791	2465412	3905833
101	MSS	198415-001	2044282	1960565	47087	637322	131024	31675	2506833	2635826	2874733	3896475
102	SER	QC411189	2211216	1983117	47234	614940	136089	33513	2682369	2836845	2732168	4096290
103	MS	QC411187	2039243	1934432	45728	612078	124774	30554	2443298	2562049	2785611	3835083
104	MSD	QC411188	1935950	1868296	44737	601194	123133	29838	2370268	2503336	2702126	3746424
105	PDS	QC411190	1883918	1848695	44035	582505	119412	29467	2351214	2461405	2710557	3707527
111	CCV		1976640	1811588	40816	599242	128944	29071	2514376	2641812	2501004	3984696
113	CCB		1844656	1600313	38431	517588	118278	27891	2342442	2582941	2249300	3616363
116	ICSA		1735832	1738378	39066	522209	108973	27759	2320428	2259190	2419784	3800026
117	ICSAB		1647624	1689471	37161	501174	103206	26075	2281580	2182888	2375901	3732261

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 67422979

Date : 10/20/07
Sequence : MET06 j20r0

Reference : j20r0004
Analyzed : 10/20/07 17:59

#	Type	Sample ID	LI A	SC A	SC E	SC H	GE H	GE E	TN A	BI A	Y A	TB A
123	MSS	198176-002	1751062	1746179	38079	512954	114493	28337	2503143	2592566	2476765	3976281
124	SAMPLE	198176-003	1745365	1714013	37798	508829	114059	27824	2459396	2558577	2426873	3911763
125	SAMPLE	198176-004	1731843	1680065	37275	508757	112431	27281	2419278	2517820	2378937	3842338
128	SAMPLE	198176-005	1729822	1649387	37955	539519	117783	27668	2347692	2483856	2330917	3745265
129	SAMPLE	198176-006	1735894	1682401	37221	511440	112555	26893	2340418	2421007	2342657	3755516
130	SAMPLE	198176-007	1647971	1549170	34528	495943	112827	26001	2312422	2520421	2227129	3665776
131	SAMPLE	198176-008	1702948	1565805	35323	494894	113603	26655	2409433	2680643	2272643	3748728
132	SAMPLE	198526-002	1714058	1602122	35406	502417	114074	27091	3595947	2636850	2312354	3770129
136	CCV		1675128	1558726	34970	493036	111468	25980	2281748	2495519	2239418	3660453
138	CCB		1627374	1486288	34802	485394	111526	26193	2275532	2547902	2163984	3534983
144	CCV		1568757	1460870	33728	463173	104663	24776	2142089	2342169	2102772	3432230
146	CCB		1561456	1430688	33172	452691	105350	24808	2158692	2449725	2065080	3388535
149	ICSA		1578755	1589958	35252	469585	98928	25356	2183515	2129996	2246306	3548582
150	ICSAB		1422505	1504649	32676	421402	89385	23648	2090642	2022494	2170671	3434228

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 67422979 Instrument: MET06 Agilent ICP-MS MET06 Begun: 20-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	j20r0001	TUN				20-OCT-2007 17:39	1.0	1.0				1	
002	j20r0002	X	RINSE			20-OCT-2007 17:47	1.0					2	
003	j20r0003	X	RINSE			20-OCT-2007 17:53	1.0					2	
004	j20r0004	ICALBLK	CALBLANK			20-OCT-2007 17:59	1.0	1.0				2	
005	j20r0005	ICAL				20-OCT-2007 18:05	1.0	1.0				3 2	
006	j20r0006	ICAL				20-OCT-2007 18:10	1.0	1.0				4 2	
007	j20r0007	ICAL				20-OCT-2007 18:16	1.0	1.0				5 2	
008	j20r0008	ICAL				20-OCT-2007 18:22	1.0	1.0				6 2	
009	j20r0009	ICAL				20-OCT-2007 18:28	1.0	1.0				7 2	
010	j20r0010	ICAL				20-OCT-2007 18:34	1.0	1.0				8 2	
011	j20r0011	X	RINSE			20-OCT-2007 18:42	1.0					2	
012	j20r0012	X				20-OCT-2007 18:48	1.0					9 2	
013	j20r0013	X				20-OCT-2007 18:54	1.0					9 2	
014	j20r0014	ICV				20-OCT-2007 19:01	1.0	1.0			1	9 2	
015	j20r0015	X	RINSE			20-OCT-2007 19:07	1.0					2	
016	j20r0016	X				20-OCT-2007 19:13	1.0	1.0	1		1	2	
017	j20r0017	ICB				20-OCT-2007 19:19	1.0	1.0			1	2	
018	j20r0018	ICSA				20-OCT-2007 19:25	1.0	1.0			1	10 2	7:CA=262600
019	j20r0019	ICSAB				20-OCT-2007 19:31	1.0	1.0			1	11 2	10:CA=336000
020	j20r0020	X	RINSE			20-OCT-2007 19:37	1.0					2	
021	j20r0021	X	RINSE			20-OCT-2007 19:43	1.0					2	
022	j20r0022	X	RINSE			20-OCT-2007 19:49	1.0					2	
023	j20r0023	X	RINSE			20-OCT-2007 19:55	1.0					2	
024	j20r0024	BLANK	QC411184	130693	Soil	20-OCT-2007 20:01	5.0	50.0	2		1	2	
025	j20r0025	BLANK	QC411394	130746	Soil	20-OCT-2007 20:07	5.0	50.0	8		1	2	
026	j20r0026	BS	QC411395	130746	Soil	20-OCT-2007 20:13	10.0	50.0	1		1	2	
027	j20r0027	BSD	QC411396	130746	Soil	20-OCT-2007 20:19	10.0	50.0	1		1	2	
028	j20r0028	X	RINSE			20-OCT-2007 20:25	1.0					2	
029	j20r0029	BS	QC411185	130693	Soil	20-OCT-2007 20:31	10.0	50.0	1	1	1	2	
030	j20r0030	BSD	QC411186	130693	Soil	20-OCT-2007 20:38	10.0	50.0	1		1	2	

Stds used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S7376 13=S6222 14=S6223
Flags used: <<t=out of clock

Analyst: _____ Date: _____

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 67422979 Instrument: MET06 Agilent ICP-MS MET06 Begun: 20-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
061	j20r0061	X	RINSE			20-OCT-2007 23:45	1.0					2	
062	j20r0062	CCV				20-OCT-2007 23:51	1.0	1.0	8		1	12 2	
063	j20r0063	X	RINSE			20-OCT-2007 23:57	1.0					2	
064	j20r0064	CCB				21-OCT-2007 00:03	1.0	1.0	7		1	2	
065	j20r0065	X				21-OCT-2007 00:09	1.0					2	
066	j20r0066	MSS	198379-005	130650	Soil	21-OCT-2007 00:15	10.0	48.08	8		1	2	4:FE=74990.0
067	j20r0067	SER	QC410997	130650	Soil	21-OCT-2007 00:21	50.0	48.08	2	6	1	2	4:MG=73060.0
068	j20r0068	MS	QC410995	130650	Soil	21-OCT-2007 00:27	10.0	48.54	4	2	1	2	4:FE=80880.0
069	j20r0069	MSD	QC410996	130650	Soil	21-OCT-2007 00:32	10.0	44.64	3	3	1	2	4:FE=76380.0
070	j20r0070	PDS	QC410998	130650	Soil	21-OCT-2007 00:38	10.0	48.08	3		1	13 14 2	5:FE=85680.(
071	j20r0071	X	RINSE			21-OCT-2007 00:44	1.0					2	
072	j20r0072	X	RINSE			21-OCT-2007 00:50	1.0					2	
073	j20r0073	X	RINSE			21-OCT-2007 00:56	1.0					2	
074	j20r0074	X	RINSE			21-OCT-2007 01:02	1.0					2	
075	j20r0075	X	RINSE			21-OCT-2007 01:08	1.0					2	
076	j20r0076	CCV				21-OCT-2007 01:14	1.0	1.0	1		1	12 2	
077	j20r0077	X	RINSE			21-OCT-2007 01:20	1.0					2	
078	j20r0078	X				21-OCT-2007 01:26	1.0					2	
079	j20r0079	CCB				21-OCT-2007 01:32	1.0	1.0	1		1	2	
080	j20r0080	X				21-OCT-2007 01:38	1.0					2	
081	j20r0081	ICSA				21-OCT-2007 01:44	1.0	1.0			1	10 2	7:CA=266900
082	j20r0082	ICSAB				21-OCT-2007 01:50	1.0	1.0			1	11 2	10:CA=340100
083	j20r0083	X	RINSE			21-OCT-2007 01:56	1.0					2	
084	j20r0084	X	RINSE			21-OCT-2007 02:02	1.0					2	
085	j20r0085	X	RINSE			21-OCT-2007 02:08	1.0					2	
086	j20r0086	X	RINSE			21-OCT-2007 02:14	1.0					2	
087	j20r0087	X	RINSE			21-OCT-2007 02:20	1.0					2	
088	j20r0088	MSS	198380-002	130746	Soil	21-OCT-2007 02:26	10.0	50.0	8		1	2	4:CA=35770.0
089	j20r0089	SER	QC411399	130746	Soil	21-OCT-2007 02:32	50.0	50.0			1	2	
090	j20r0090	MS	QC411397	130746	Soil	21-OCT-2007 02:38	10.0	50.0	3	2	1	2	4:CA=35510.0

Stds used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S7376 13=S6222 14=S6223
Flags used: <<t=out of clock

Analyst: _____ Date: 10/27/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 67422979 Instrument: MET06 Agilent ICP-MS MET06 Begun: 20-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	j20r0031	X	RINSE			20-OCT-2007 20:45	1.0					2	
032	j20r0032	MSS	198380-002	130746	Soil	20-OCT-2007 20:51	100.0	50.0	1		1	2	
033	j20r0033	SER	QC411399	130746	Soil	20-OCT-2007 20:57	500.0	50.0	6	2	1	2	
034	j20r0034	X	RINSE			20-OCT-2007 21:03	1.0					2	
035	j20r0035	X	RINSE			20-OCT-2007 21:09	1.0					2	
036	j20r0036	X	RINSE			20-OCT-2007 21:15	1.0					2	
037	j20r0037	CCV				20-OCT-2007 21:21	1.0	1.0	1		1	12 2	
038	j20r0038	X				20-OCT-2007 21:27	1.0					12 2	
039	j20r0039	X	RINSE			20-OCT-2007 21:34	1.0					2	
040	j20r0040	CCB				20-OCT-2007 21:40	1.0	1.0			1	2	
041	j20r0041	X				20-OCT-2007 21:46	1.0					2	
042	j20r0042	X				20-OCT-2007 21:52	1.0					2	
043	j20r0043	MS	QC411397	130746	Soil	20-OCT-2007 21:58	100.0	50.0	1	2	1	2	
044	j20r0044	MSD	QC411398	130746	Soil	20-OCT-2007 22:04	100.0	45.87	1	2	1	2	
045	j20r0045	PDS	QC411400	130746	Soil	20-OCT-2007 22:09	100.0	50.0	1		1	13 14 2	
046	j20r0046	X	RINSE			20-OCT-2007 22:15	1.0					2	
047	j20r0047	X	RINSE			20-OCT-2007 22:21	1.0					2	
048	j20r0048	X	RINSE			20-OCT-2007 22:28	1.0					2	
049	j20r0049	CCV				20-OCT-2007 22:33	1.0	1.0	2		1	12 2	
050	j20r0050	X	RINSE			20-OCT-2007 22:40	1.0					2	
051	j20r0051	CCB				20-OCT-2007 22:46	1.0	1.0			1	2	
052	j20r0052	X				20-OCT-2007 22:52	1.0					2	
053	j20r0053	X				20-OCT-2007 22:58	1.0					2	
054	j20r0054	MSS	198388-001	130727	Water	20-OCT-2007 23:04	5.0	1.0	3		1	2	1:CA=24440.0
055	j20r0055	X	WRONG SAMPLE			20-OCT-2007 23:10	1.0	1.0			1	2	
056	j20r0056	MS	QC411324	130727	Water	20-OCT-2007 23:16	5.0	1.0			1	2	1:CA=26620.0
057	j20r0057	MSD	QC411325	130727	Water	20-OCT-2007 23:22	5.0	1.0			1	2	1:CA=26280.0
058	j20r0058	X	WRONG SAMPLE			20-OCT-2007 23:27	1.0	1.0			1	13 14 2	2:CA=34240.(
059	j20r0059	X	RINSE			20-OCT-2007 23:33	1.0					2	
060	j20r0060	X	RINSE			20-OCT-2007 23:39	1.0					2	

Stds used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S7376 13=S6222 14=S6223
Flags used: <<t=out of clock

Analyst: _____ Date: 10/22/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 67422979 Instrument: MET06 Agilent ICP-MS MET06 Begun: 20-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
091	j20r0091	MSD	QC411398	130746	Soil	21-OCT-2007 02:44	10.0	45.87	3	4	1	2	4:CA=44120.0
092	j20r0092	PDS	QC411400	130746	Soil	21-OCT-2007 02:51	10.0	50.0			1	13 14 2	4:CA=45020.(
093	j20r0093	X	RINSE			21-OCT-2007 02:57	1.0					2	
094	j20r0094	X	RINSE			21-OCT-2007 03:03	1.0					2	
095	j20r0095	X	RINSE			21-OCT-2007 03:09	1.0					2	
096	j20r0096	CCV				21-OCT-2007 03:15	1.0	1.0	3		1	12 2	
097	j20r0097	X	RINSE			21-OCT-2007 03:20	1.0					2	
098	j20r0098	CCB				21-OCT-2007 03:26	1.0	1.0			1	2	
099	j20r0099	X				21-OCT-2007 03:33	1.0					2	
100	j20r0100	X				21-OCT-2007 03:39	1.0					2	
101	j20r0101	MSS	198415-001	130693	Soil	21-OCT-2007 03:45	10.0	45.87	15		1	2	6:FE=38210.0
102	j20r0102	SER	QC411189	130693	Soil	21-OCT-2007 03:50	50.0	45.87			1	2	2:BA=1980.20
103	j20r0103	MS	QC411187	130693	Soil	21-OCT-2007 03:56	10.0	45.45		1	1	2	6:FE=43270.0
104	j20r0104	MSD	QC411188	130693	Soil	21-OCT-2007 04:02	10.0	47.17			1	2	6:FE=44310.0
105	j20r0105	PDS	QC411190	130693	Soil	21-OCT-2007 04:09	10.0	45.87			1	13 14 2	6:FE=47010.(
106	j20r0106	X	RINSE			21-OCT-2007 04:15	1.0					2	
107	j20r0107	X	RINSE			21-OCT-2007 04:21	1.0					2	
108	j20r0108	X	RINSE			21-OCT-2007 04:27	1.0					2	
109	j20r0109	X	RINSE			21-OCT-2007 04:33	1.0					2	
110	j20r0110	X	RINSE			21-OCT-2007 04:40	1.0					2	
111	j20r0111	CCV				21-OCT-2007 04:45	1.0	1.0	12		1	12 2	
112	j20r0112	X	RINSE			21-OCT-2007 04:51	1.0					2	
113	j20r0113	CCB				21-OCT-2007 04:57	1.0	1.0	1		1	2	
114	j20r0114	X				21-OCT-2007 05:03	1.0					2	
115	j20r0115	X				21-OCT-2007 05:09	1.0					2	
116	j20r0116	ICSA				21-OCT-2007 05:15	1.0	1.0			1	10 2	7:CA=268700
117	j20r0117	ICSAB				21-OCT-2007 05:21	1.0	1.0			1	11 2	10:CA=344300
118	j20r0118	X	RINSE			21-OCT-2007 05:28	1.0					2	
119	j20r0119	X	RINSE			21-OCT-2007 05:34	1.0					2	
120	j20r0120	X	RINSE			21-OCT-2007 05:40	1.0					2	

Stds used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S7376 13=S6222 14=S6223
Flags used: <<t=out of clock

Analyst: _____ Date: _____

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 67422979 Instrument: MET06 Agilent ICP-MS MET06 Begun: 20-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
121	j20r0121	X	RINSE			21-OCT-2007 05:46	1.0				2	
122	j20r0122	X	RINSE			21-OCT-2007 05:52	1.0				2	
123	j20r0123	MSS	198176-002	130727	Water	21-OCT-2007 05:58	5.0	1.0	23	1	2 <<t	2:NA=99180.0
124	j20r0124	SAMPLE	198176-003	130727	Water	21-OCT-2007 06:04	5.0	1.0	16	1	2 <<t	1:NA=101660
125	j20r0125	SAMPLE	198176-004	130727	Water	21-OCT-2007 06:10	5.0	1.0	16	1	2 <<t	2:NA=95720.0
126	j20r0126	TUN				21-OCT-2007 06:14	1.0	1.0			1	
127	j20r0127	X	RINSE			21-OCT-2007 06:22	1.0				2	
128	j20r0128	SAMPLE	198176-005	130727	Water	21-OCT-2007 06:28	5.0	1.0	7	1	2	2:NA=94020.0
129	j20r0129	SAMPLE	198176-006	130727	Water	21-OCT-2007 06:34	5.0	1.0	7	1	2	1:NA=138920
130	j20r0130	SAMPLE	198176-007	130727	Water	21-OCT-2007 06:40	5.0	1.0	7	1	2	1:CA=22960.0
131	j20r0131	SAMPLE	198176-008	130727	Water	21-OCT-2007 06:46	5.0	1.0	7	1	2	
132	j20r0132	SAMPLE	198526-002	130727	Water	21-OCT-2007 06:52	10.0	1.0		1	2	
133	j20r0133	X	RINSE			21-OCT-2007 06:58	1.0				2	
134	j20r0134	X	RINSE			21-OCT-2007 07:04	1.0				2	
135	j20r0135	X	RINSE			21-OCT-2007 07:10	1.0				2	
136	j20r0136	CCV				21-OCT-2007 07:16	1.0	1.0	3	1	12 2	
137	j20r0137	X	RINSE			21-OCT-2007 07:22	1.0				2	
138	j20r0138	CCB				21-OCT-2007 07:28	1.0	1.0		1	2	
139	j20r0139	X				21-OCT-2007 07:34	1.0				2	
140	j20r0140	X				21-OCT-2007 07:40	1.0				2	
141	j20r0141	X	RINSE			21-OCT-2007 07:46	1.0				2	
142	j20r0142	X	RINSE			21-OCT-2007 07:52	1.0				2	
143	j20r0143	X	RINSE			21-OCT-2007 07:58	1.0				2	
144	j20r0144	CCV				21-OCT-2007 08:04	1.0	1.0	3	1	12 2	
145	j20r0145	X	RINSE			21-OCT-2007 08:10	1.0				2	
146	j20r0146	CCB				21-OCT-2007 08:16	1.0	1.0		1	2	
147	j20r0147	X				21-OCT-2007 08:22	1.0				2	
148	j20r0148	X				21-OCT-2007 08:28	1.0				2	
149	j20r0149	ICSA				21-OCT-2007 08:34	1.0	1.0		1	10 2	7:CA=274800
150	j20r0150	ICSAB				21-OCT-2007 08:40	1.0	1.0		1	11 2	10:CA=346800

Stds used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S7376 13=S6222 14=S6223
Flags used: <<t=out of clock

Analyst: _____ Date: 10/22/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 67422979 Instrument: MET06 Agilent ICP-MS MET06 Begun: 20-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
151	j20r0151	X	RINSE			21-OCT-2007 08:47	1.0			2	
152	j20r0152	X	RINSE			21-OCT-2007 08:53	1.0			2	
153	j20r0153	X	RINSE			21-OCT-2007 08:59	1.0			2	
154	j20r0154	X	RINSE			21-OCT-2007 09:05	1.0			2	

Stds used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S7376 13=S6222 14=S6223
Flags used: <<t=out of clock

Analyst: Date: 10/21/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET16
Calnum : 897425352001
Units : ug/L

Date : 22-OCT-2007 09:32
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	j22j0005	897425352005		22-OCT-2007 09:38	S7371, S7379
L2	j22j0006	897425352006		22-OCT-2007 09:44	S7372, S7379
L3	j22j0007	897425352007		22-OCT-2007 09:50	S7373, S7379
L4	j22j0008	897425352008		22-OCT-2007 09:56	S7374, S7379
L5	j22j0009	897425352009		22-OCT-2007 10:01	S7369, S7379
L6	j22j0010	897425352010		22-OCT-2007 10:08	S7370, S7379

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum	A	0.3710	0.3069	0.2988	0.2911	0.2899	0.2804	BLNK	-1.2081	3.54232		0.3064	1.000	0.995	
Antimony	A	0.2218	0.1633	0.1527	0.1424	0.1528	0.1454	BLNK	-0.0190	6.80788		0.1631	0.999	0.995	
Barium	A	0.1486	0.0611	0.0494	0.0415	0.0392	0.0400	BLNK	-0.0213	25.1034		0.0633	1.000	0.995	
Beryllium	A	0.1364	0.1452	0.1470	0.1506	0.1525	0.1489	BLNK	-0.0021	6.68296		0.1468	1.000	0.995	
Cadmium	A	0.0411	0.0402	0.0403	0.0402	0.0403	0.0392	BLNK	-0.0036	25.3463		0.0402	1.000	0.995	
Calcium	A	0.0577	0.0219	0.0155	0.0111	0.0102	0.0098	BLNK	-31.536	101.202		0.0210	1.000	0.995	
Lead	A	0.6488	0.3972	0.3620	0.3361	0.3374	0.3251	BLNK	-0.0837	3.05460		0.4011	1.000	0.995	
Magnesium	A	0.2987	0.2574	0.2477	0.2407	0.2397	0.2312	BLNK	-1.2612	4.29434		0.2526	1.000	0.995	
Molybdenum	A	0.1122	0.1039	0.1013	0.1035	0.1115	0.1056	BLNK	-0.0064	9.36731		0.1063	0.999	0.995	
Potassium	A	2.6143	0.8043	0.5481	0.3507	0.3264	0.3126	BLNK	-71.202	3.18389		0.8261	1.000	0.995	
Silver	A	0.3584	0.1846	0.1966	0.1757	0.1834	0.1771	BLNK	-0.0092	5.60823		0.2126	1.000	0.995	
Thallium	A	0.5078	0.4069	0.3979	0.3965	0.4261	0.4174	BLNK	-0.0119	2.38648		0.4254	1.000	0.995	
Arsenic	E	0.5099	0.3600	0.3320	0.3144	0.3145	0.3072	BLNK	-0.0222	3.24018		0.3563	1.000	0.995	
Chromium	E	9.8940	4.6367	3.9614	3.0395	2.9559	2.8677	BLNK	-0.1793	0.34693		4.5592	1.000	0.995	
Cobalt	E	6.6694	6.4129	6.1539	5.9410	5.8139	5.6176	BLNK	-0.0038	0.17676		6.1014	1.000	0.995	
Copper	E	23.068	13.752	7.7381	5.1169	4.5902	4.3967	BLNK	-0.2877	0.22578		9.7770	1.000	0.995	
Manganese	E	1.7414	1.2239	1.1146	1.0026	0.9831	0.9605	BLNK	-0.0235	1.03634		1.1710	1.000	0.995	
Nickel	E	4.8815	2.6052	2.1199	1.7795	1.6950	1.6142	BLNK	-0.1293	0.61373		2.4492	0.999	0.995	
Sodium	E	1.6382	0.5421	0.3835	0.2558	0.2379	0.2315	BLNK	-54.029	4.30887		0.5482	1.000	0.995	
Vanadium	E	2.6801	2.1887	2.0845	2.0356	2.0389	1.9918	BLNK	-0.0371	0.49979		2.1699	1.000	0.995	
Zinc	E	11.417	3.7508	1.8162	0.6306	0.5319	0.5011	BLNK	-1.2510	1.98568		3.1079	0.999	0.995	
Iron	H	0.6886	0.5729	0.5727	0.5281	0.5339	0.4989	BLNK	-0.8744	1.97660		0.5659	0.999	0.995	
Selenium	H	0.0973	0.0990	0.0969	0.0958	0.0954	0.0904	BLNK	-0.0042	10.9400		0.0958	0.999	0.995	

5
5
2
5
0

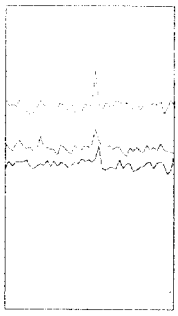
Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Aluminum	A	10.00	19	50.00	6	100.0	5	1000	3	10000	3	20000	-1
Antimony	A	0.100	32	0.500	7	1.000	2	10.00	-3	100.0	4	200.0	-1
Barium	A	0.100	252	0.500	49	1.000	22	10.00	4	100.0	-2	200.0	0
Beryllium	A	0.100	-11	0.500	-3	1.000	-2	10.00	1	100.0	2	200.0	0
Cadmium	A	0.100	1	0.500	1	1.000	2	10.00	2	100.0	2	200.0	-1
Calcium	A	10.00	169	50.00	58	100.0	25	1000	9	10000	3	20000	-1
Lead	A	0.100	14	0.500	5	1.000	2	10.00	2	100.0	3	200.0	-1
Magnesium	A	10.00	16	50.00	8	100.0	5	1000	3	10000	3	20000	-1
Molybdenum	A	0.100	-1	0.500	-4	1.000	-6	10.00	-3	100.0	4	200.0	-1
Potassium	A	10.00	20	50.00	14	100.0	3	1000	5	10000	3	20000	-1
Silver	A	0.100	92	0.500	2	1.000	9	10.00	-2	100.0	3	200.0	-1
Thallium	A	0.050	-3	0.250	-8	0.500	-7	5.000	-6	50.00	2	100.0	0
Arsenic	E	0.100	43	0.500	12	1.000	5	10.00	2	100.0	2	200.0	0
Chromium	E	0.100	64	0.500	25	1.000	20	10.00	4	100.0	2	200.0	-1
Cobalt	E	0.100	14	0.500	13	1.000	8	10.00	5	100.0	3	200.0	-1
Copper	E	0.100	133	0.500	153	1.000	46	10.00	13	100.0	3	200.0	-1
Manganese	E	0.100	57	0.500	22	1.000	13	10.00	4	100.0	2	200.0	0
Nickel	E	0.100	70	0.500	34	1.000	17	10.00	8	100.0	4	200.0	-1
Sodium	E	10.00	66	50.00	26	100.0	11	1000	5	10000	2	20000	-1
Vanadium	E	0.100	-3	0.500	2	1.000	0	10.00	1	100.0	2	200.0	0
Zinc	E	0.100	916	0.500	395	1.000	136	10.00	13	100.0	4	200.0	-1
Iron	H	10.00	27	50.00	11	100.0	12	1000	4	10000	6	20000	-1
Selenium	H	0.100	2	0.500	7	1.000	6	10.00	5	100.0	4	200.0	-1

9 9 2 5 2

strument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

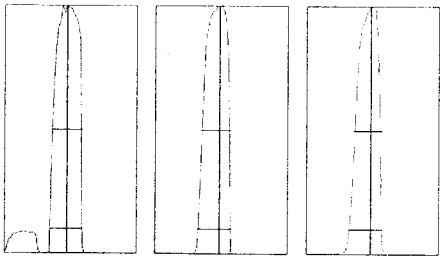
Tune Report

Tune File : nogas.u
Comment :



m/z	Range	Count	Mean	RSD%	Background
7	50,000	25417.0	23938.1	3.16	1.20
89	100,000	51668.0	53278.5	2.82	1.90
205	50,000	33644.0	33569.1	3.18	7.50

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec
n: 50
Oxide: 156/140 1.065%
Doubly Charged: 70/140 1.977%



m/z:	7	89	205
Height:	24,357	53,781	34,253
Axis:	6.95	89.00	205.00
W-50%:	0.70	0.65	0.65
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec
Y axis : Linear

===Plasma Condition===

RF Power	:	1600 W
RF Matching	:	1.7 V
Smpl Depth	:	8 mm
Torch-H	:	0 mm
Torch-V	:	-0.4 mm
Carrier Gas	:	1.05 L/min
Makeup Gas	:	0 L/min
Optional Gas	:	--- %
Nebulizer Pump	:	0.1 rps
Sample Pump	:	--- rps
S/C Temp	:	2 degC

===Ion Lenses===

Extract 1	:	0 V
Extract 2	:	-120 V
Omega Bias-ce	:	-30 V
Omega Lens-ce	:	-1.2 V
Cell Entrance	:	-30 V
QP Focus	:	8 V
Cell Exit	:	-30 V

===Octopole Parameters===

OctP RF	:	200 V
OctP Bias	:	-6 V

===Q-Pole Parameters===

AMU Gain	:	124
AMU Offset	:	126
Axis Gain	:	0.9993
Axis Offset	:	0.03
QP Bias	:	-1 V

===Detector Parameters===

Discriminator	:	8 mV
Analog HV	:	1740 V
Pulse HV	:	1390 V

===Reaction Cell===

Reaction Mode : OFF
H2 Gas : 0 mL/min He Gas : 0 mL/min Optional Gas : --- %

Tune File : he.u
He Gas: 6 mL/min
Optional Gas: --- %
QP Focus: -10 V
Cell Exit: -38 V
OctP Bias: -18 V
QP Bias: -16 V

m/z	Count(Mean)	RSD%
51	6.2	42.41
59	6041.0	4.10
89	3408.8	4.33

Integration Time: 0.1000sec

Tune File : h2.u
H2 Gas: 5 mL/min
Optional Gas: --- %
QP Focus: -10 V
Cell Exit: -38 V
OctP Bias: -18 V
QP Bias: -16 V

m/z	Count(Mean)	RSD%
59	2432.8	4.51
78	0.1	273.55
89	27690.9	3.25

Integration Time: 0.1000sec

Generated : Oct 22, 2007 08:39:30
Printed : Oct 22, 2007 08:41:15 : 00271

P/A Factor Tuning Report

Acquired:Oct 22 2007 08:49 am

Mass[amu]	Element	P/A Factor
6	Li	0.060602
7	(Li)	Sensitivity too low
9	Be	0.068583
23	Na	Sensitivity too high
24	Mg	Sensitivity too high
27	Al	Sensitivity too high
39	K	Sensitivity too high
44	Ca	0.085908
45	Sc	Sensitivity too low
51	V	0.078986
52	Cr	0.090502
55	Mn	0.091826
56	Fe	Sensitivity too high
59	Co	0.094810
60	Ni	0.099144
63	Cu	0.101649
65	Cu	0.101712
66	Zn	0.100126
72	Ge	0.098915
75	As	0.097224
78	Se	Sensitivity too low
89	Y	Sensitivity too low
98	Mo	0.097167
99	(Ru)	Sensitivity too low
107	Ag	0.106440
111	Cd	0.105810
115	In	0.105727
118	(In)	0.104874
121	Sb	0.104606
137	Ba	0.105956
159	Tb	Sensitivity too low
205	Tl	0.115744
206	(Pb)	0.115569
207	(Pb)	0.115737
208	Pb	0.116361
209	Bi	0.115927

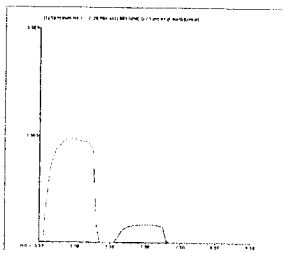
===Detector Parameters===
Discriminator: 8.0 mV
Analog HV: 1740 V
Pulse HV: 1390 V

6020 QC Tune Report

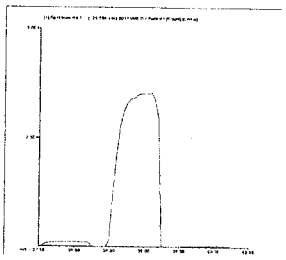
Data File: C:\ICPCHEM\1\DATA\07J22j00.B\001TUNE.D
Date Acquired: Oct 22 2007 09:12 am
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s7368
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

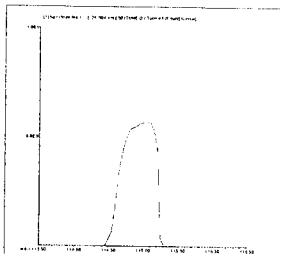
Element	Actual	Required	Flag
7 Li	0.44	5.00	
59 Co	0.50	5.00	
115 In	1.12	5.00	
205 Tl	0.92	5.00	



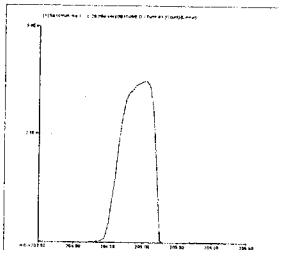
7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 205.00
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\07J22j00.B\004CALB.D\004C
Date Acquired:	Oct 22 2007 09:30 am
Operator:	
Sample Name:	calblank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File:	C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal Update:	Oct 22 2007 09:34 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	2429215.00	A	18000.00	0.74
7	(Li)		P		
9	Be	15.56	P	15.40	99.00
23	Na	11265.50	P	218.80	1.94
24	Mg	23719.40	P	220.20	0.93
27	Al	27546.20	P	1339.00	4.86
39	K	1806105.00	A	11900.00	0.66
44	Ca	25166.40	P	131.10	0.52
45	Sc	531410.88	P	5636.00	1.06
45	Sc	44919.69	P	426.20	0.95
45	Sc	4038136.00	A	18610.00	0.46
51	V	66.67	P	5.09	7.64
52	Cr	464.09	P	15.81	3.41
55	Mn	20.37	P	4.21	20.65
56	Fe	4701.50	P	76.53	1.63
59	Co	19.26	P	3.57	18.55
60	Ni	189.26	P	6.79	3.59
63	Cu	1241.92	P	48.06	3.87
65	Cu	634.83	P	16.49	2.60
66	Zn	614.09	P	25.00	4.07
72	Ge	142959.50	P	1394.00	0.98
72	Ge	48734.94	P	221.20	0.45
75	As	6.67	P	1.76	26.46
78	Se	1.11	P	1.02	91.62
89	Y	5779679.00	A	14430.00	0.25
98	Mo	78.89	P	12.62	16.00
107	Ag	182.23	P	23.41	12.85
111	Cd	15.56	P	11.71	75.28
115	In	5554339.00	A	48510.00	0.87
118	(In)		P		
118	(In)		P		
118	(In)		P		
121	Sb	310.01	P	8.82	2.85
137	Ba	125.56	P	15.40	12.27
159	Tb	7412452.00	A	57430.00	0.77
205	Tl	443.36	P	43.59	9.83
208	Pb	4061.65	P	88.61	2.18
209	Bi	4431134.00	A	71670.00	1.62

00274

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\07J22j00.B\005CALS.D\005CALS.D#
Date Acquired: Oct 22 2007 09:36 am
Operator:
Sample Name: S7371
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal Update: Oct 22 2007 09:34 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	2493174.00	A	31420.00	1.26
7 (Li)		P		
9 Be	680.04	P	18.56	2.73
23 Na	15191.08	P	111.80	0.74
24 Mg	249769.50	P	3342.00	1.34
27 Al	310210.59	P	1194.00	0.38
39 K	2186090.00	A	13140.00	0.60
44 Ca	48267.23	P	418.90	0.87
45 Sc	539935.13	P	19480.00	3.61
45 Sc	46367.15	P	368.90	0.80
45 Sc	4181250.00	A	53590.00	1.28
51 V	248.52	P	1.28	0.52
52 Cr	917.45	P	5.48	0.60
55 Mn	161.48	P	18.34	11.36
56 Fe	74307.25	P	312.40	0.42
59 Co	618.54	P	17.26	2.79
60 Ni	452.60	P	26.04	5.75
63 Cu	2322.05	P	116.90	5.03
65 Cu	1167.83	P	32.91	2.82
66 Zn	1149.31	P	25.39	2.21
72 Ge	149559.50	P	1540.00	1.03
72 Ge	50334.49	P	84.47	0.17
75 As	51.33	P	2.91	5.66
78 Se	29.11	P	6.16	21.15
89 Y	5978527.00	A	59770.00	1.00
98 Mo	1341.22	P	48.35	3.60
107 Ag	4126.28	P	176.00	4.27
111 Cd	473.36	P	24.04	5.08
115 In	5757104.00	A	43120.00	0.75
118 (In)		P		
118 (In)		P		
118 (In)		P		
121 Sb	2553.64	P	38.45	1.51
137 Ba	2253.60	P	92.82	4.12
159 Tb	7586310.00	A	35100.00	0.46
205 Tl	2268.04	P	87.98	3.88
208 Pb	9843.13	P	101.30	1.03
209 Bi	4467303.00	A	27490.00	0.62

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2493174.00	1.26	2429214.80	102.6	80 - 120	
45 Sc	539935.13	3.61	531410.94	101.6	80 - 120	
45 Sc	46367.15	0.80	44919.69	103.2	80 - 120	
45 Sc	4181250.00	1.28	4038135.80	103.5	80 - 120	
72 Ge	149559.52	1.03	142959.45	104.6	80 - 120	
72 Ge	50334.50	0.17	48734.94	103.3	80 - 120	
89 Y	5978527.00	1.00	5779678.50	103.4	80 - 120	
115 In	5757104.00	0.75	5554338.50	103.7	80 - 120	
159 Tb	7586310.00	0.46	7412451.50	102.3	80 - 120	
209 Bi	4467303.50	0.62	4431133.50	100.8	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\07J22j00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\07J22j00.B\006CALS.D\006CALS.D#
Date Acquired: Oct 22 2007 09:42 am
Operator:
Sample Name: S7372
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal Update: Oct 22 2007 09:40 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	2495804.00	A	30310.00	1.21
7 (Li)		P		
9 Be	3623.86	P	101.10	2.79
23 Na	24068.91	P	434.70	1.81
24 Mg	1073230.00	A	8611.00	0.80
27 Al	1279673.00	A	5279.00	0.41
39 K	3354081.00	A	25840.00	0.77
44 Ca	91260.70	P	1387.00	1.52
45 Sc	555208.81	P	1994.00	0.36
45 Sc	44522.94	P	2879.00	6.47
45 Sc	4170036.00	A	7282.00	0.17
51 V	973.37	P	38.75	3.98
52 Cr	2059.05	P	13.92	0.68
55 Mn	542.24	P	25.24	4.65
56 Fe	318084.19	P	1142.00	0.36
59 Co	2846.21	P	63.67	2.24
60 Ni	1156.35	P	5.70	0.49
63 Cu	6792.67	P	266.40	3.92
65 Cu	3352.25	P	109.60	3.27
66 Zn	1853.10	P	83.43	4.50
72 Ge	151703.80	P	1373.00	0.91
72 Ge	49397.60	P	1911.00	3.87
75 As	177.34	P	16.01	9.03
78 Se	150.22	P	10.80	7.19
89 Y	5977342.00	A	23830.00	0.40
98 Mo	6211.48	P	15.29	0.25
107 Ag	10596.30	P	273.70	2.58
111 Cd	2309.14	P	74.95	3.25
115 In	5740362.00	A	14780.00	0.26
118 (In)		P		
118 (In)		P		
118 (In)		P		
121 Sb	9372.15	P	220.30	2.35
137 Ba	4596.44	P	221.20	4.81
159 Tb	7523652.00	A	21340.00	0.28
205 Tl	9136.61	P	38.47	0.42
208 Pb	29880.89	P	187.90	0.63
209 Bi	4490468.00	A	14470.00	0.32

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2495803.80	1.21	2429214.80	102.7	80 - 120	
45 Sc	555208.81	0.36	531410.94	104.5	80 - 120	
45 Sc	44522.94	6.47	44919.69	99.1	80 - 120	
45 Sc	4170036.30	0.17	4038135.80	103.3	80 - 120	
72 Ge	151703.78	0.91	142959.45	106.1	80 - 120	
72 Ge	49397.60	3.87	48734.94	101.4	80 - 120	
89 Y	5977342.50	0.40	5779678.50	103.4	80 - 120	
115 In	5740362.50	0.26	5554338.50	103.3	80 - 120	
159 Tb	7523652.50	0.28	7412451.50	101.5	80 - 120	
209 Bi	4490468.50	0.32	4431133.50	101.3	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\07J22j00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\07J22j00.B\007CALS.D\007CALS.D#
Date Acquired: Oct 22 2007 09:48 am
Operator:
Sample Name: S7373
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal Update: Oct 22 2007 09:46 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	2530221.00	A	27360.00	1.08
7 (Li)		P		
9 Be	7436.39	P	105.50	1.42
23 Na	35909.20	P	915.20	2.55
24 Mg	2121641.00	A	17520.00	0.83
27 Al	2559492.00	A	14180.00	0.55
39 K	4693944.00	A	38950.00	0.83
44 Ca	132396.30	P	557.90	0.42
45 Sc	557787.50	P	5361.00	0.96
45 Sc	46809.25	P	651.30	1.39
45 Sc	4282358.00	A	35390.00	0.83
51 V	1951.62	P	47.31	2.42
52 Cr	3708.25	P	52.27	1.41
55 Mn	1043.38	P	19.75	1.89
56 Fe	638820.38	P	2228.00	0.35
59 Co	5760.75	P	32.15	0.56
60 Ni	1984.22	P	38.00	1.92
63 Cu	7905.05	P	91.70	1.16
65 Cu	3902.01	P	76.92	1.97
66 Zn	1855.32	P	113.60	6.12
72 Ge	151071.50	P	1586.00	1.05
72 Ge	51081.37	P	360.00	0.70
75 As	339.12	P	9.08	2.68
78 Se	292.67	P	10.97	3.75
89 Y	6132603.00	A	37840.00	0.62
98 Mo	12427.72	P	78.24	0.63
107 Ag	23010.52	P	340.50	1.48
111 Cd	4715.35	P	141.50	3.00
115 In	5852980.00	A	5117.00	0.09
118 (In)		P		
118 (In)		P		
118 (In)		P		
121 Sb	17870.20	P	195.60	1.09
137 Ba	7665.57	P	112.90	1.47
159 Tb	7752687.00	A	21680.00	0.28
205 Tl	18189.04	P	171.80	0.94
208 Pb	56125.97	P	489.40	0.87
209 Bi	4571185.00	A	29070.00	0.64

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2530220.50	1.08	2429214.80	104.2	80 - 120	
45 Sc	557787.56	0.96	531410.94	105.0	80 - 120	
45 Sc	46809.25	1.39	44919.69	104.2	80 - 120	
45 Sc	4282358.00	0.83	4038135.80	106.0	80 - 120	
72 Ge	151071.55	1.05	142959.45	105.7	80 - 120	
72 Ge	51081.37	0.70	48734.94	104.8	80 - 120	
89 Y	6132603.00	0.62	5779678.50	106.1	80 - 120	
115 In	5852980.50	0.09	5554338.50	105.4	80 - 120	
159 Tb	7752687.50	0.28	7412451.50	104.6	80 - 120	
209 Bi	4571184.50	0.64	4431133.50	103.2	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\07J22j00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\07J22j00.B\008CALS.D\008CALS.D#
Date Acquired: Oct 22 2007 09:54 am
Operator:
Sample Name: S7374
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal Update: Oct 22 2007 09:52 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	2477601.00	A	10790.00	0.44
7 (Li)		P		
9 Be	74629.05	P	293.50	0.39
23 Na	247718.59	P	2212.00	0.89
24 Mg	20438310.00	A	8865.00	0.04
27 Al	24715000.00	A	57240.00	0.23
39 K	29769250.00	A	314000.00	1.05
44 Ca	943369.00	A	7907.00	0.84
45 Sc	563552.88	P	2219.00	0.39
45 Sc	48414.02	P	224.80	0.46
45 Sc	4244794.00	A	17360.00	0.41
51 V	19710.28	P	55.14	0.28
52 Cr	29430.37	P	240.80	0.82
55 Mn	9707.54	P	40.57	0.42
56 Fe	5951976.00	A	70550.00	1.19
59 Co	57523.67	P	381.50	0.66
60 Ni	17230.03	P	231.30	1.34
63 Cu	53315.32	P	302.30	0.57
65 Cu	26786.59	P	438.50	1.64
66 Zn	6570.35	P	65.62	1.00
72 Ge	152347.00	P	1256.00	0.82
72 Ge	52098.83	P	199.00	0.38
75 As	3275.70	P	30.29	0.92
78 Se	2918.30	P	69.42	2.38
89 Y	6018652.00	A	61200.00	1.02
98 Mo	124624.40	P	337.00	0.27
107 Ag	202856.59	P	600.60	0.30
111 Cd	46438.51	P	487.00	1.05
115 In	5772347.00	A	29620.00	0.51
118 (In)		A		
118 (In)		P		
118 (In)		A		
121 Sb	164356.09	P	901.00	0.55
137 Ba	62284.02	P	710.00	1.14
159 Tb	7509869.00	A	81860.00	1.09
205 Tl	176138.30	P	480.70	0.27
208 Pb	504799.69	P	2570.00	0.51
209 Bi	4442454.00	A	15160.00	0.34

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2477601.30	0.44	2429214.80	102.0	80 - 120	
45 Sc	563552.94	0.39	531410.94	106.0	80 - 120	
45 Sc	48414.02	0.46	44919.69	107.8	80 - 120	
45 Sc	4244793.50	0.41	4038135.80	105.1	80 - 120	
72 Ge	152347.05	0.82	142959.45	106.6	80 - 120	
72 Ge	52098.82	0.38	48734.94	106.9	80 - 120	
89 Y	6018652.50	1.02	5779678.50	104.1	80 - 120	
115 In	5772347.00	0.51	5554338.50	103.9	80 - 120	
159 Tb	7509869.00	1.09	7412451.50	101.3	80 - 120	
209 Bi	4442454.00	0.34	4431133.50	100.3	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\07J22j00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\07J22j00.B\009CALS.D\009CALS.D#
Date Acquired: Oct 22 2007 09:59 am
Operator:
Sample Name: S7369
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal Update: Oct 22 2007 09:58 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	2443005.00	A	4196.00	0.17
7 (Li)		P		
9 Be	744885.00	A	3805.00	0.51
23 Na	2251187.00	A	9635.00	0.43
24 Mg	199204190.00	A	3449000.00	1.73
27 Al	240873500.00	A	896300.00	0.37
39 K	271263200.00	A	867700.00	0.32
44 Ca	8490582.00	A	14490.00	0.17
45 Sc	537273.00	P	2721.00	0.51
45 Sc	47314.06	P	708.30	1.50
45 Sc	4155024.00	A	25020.00	0.60
51 V	192908.59	P	781.20	0.40
52 Cr	279679.59	P	904.90	0.32
55 Mn	93017.89	P	875.60	0.94
56 Fe	57372100.00	A	55650.00	0.10
59 Co	550085.19	P	592.60	0.11
60 Ni	160366.50	P	710.70	0.44
63 Cu	465130.31	P	1407.00	0.30
65 Cu	234697.30	P	973.70	0.41
66 Zn	53903.05	P	215.90	0.40
72 Ge	144682.00	P	921.20	0.64
72 Ge	50667.06	P	392.50	0.77
75 As	31868.22	P	146.70	0.46
78 Se	27612.83	P	223.70	0.81
89 Y	5838621.00	A	35770.00	0.61
98 Mo	1302310.00	A	6321.00	0.49
107 Ag	2016342.00	A	14150.00	0.70
111 Cd	443583.19	P	376.60	0.08
115 In	5498477.00	A	7132.00	0.13
118 (In)		A		
118 (In)		A		
118 (In)		A		
121 Sb	1680478.00	A	5020.00	0.30
137 Ba	585002.81	P	1783.00	0.30
159 Tb	7464093.00	A	34700.00	0.46
205 Tl	1821121.00	A	6897.00	0.38
208 Pb	5036914.00	A	26950.00	0.54
209 Bi	4273657.00	A	13190.00	0.31

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2443005.50	0.17	2429214.80	100.6	80 - 120	
45 Sc	537273.06	0.51	531410.94	101.1	80 - 120	
45 Sc	47314.06	1.50	44919.69	105.3	80 - 120	
45 Sc	4155024.00	0.60	4038135.80	102.9	80 - 120	
72 Ge	144681.97	0.64	142959.45	101.2	80 - 120	
72 Ge	50667.06	0.77	48734.94	104.0	80 - 120	
89 Y	5838620.50	0.61	5779678.50	101.0	80 - 120	
115 In	5498477.50	0.13	5554338.50	99.0	80 - 120	
159 Tb	7464093.00	0.46	7412451.50	100.7	80 - 120	
209 Bi	4273657.00	0.31	4431133.50	96.4	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\07J22j00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\07J22j00.B\010CALS.D\010CALS.D#
Date Acquired: Oct 22 2007 10:06 am
Operator:
Sample Name: S7370
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal Update: Oct 22 2007 10:04 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	2405859.00	A	29420.00	1.22
7 (Li)		P		
9 Be	1433129.00	A	9751.00	0.68
23 Na	4414899.00	A	16710.00	0.38
24 Mg	384888290.00	A	1223000.00	0.32
27 Al	466895300.00	A	1568000.00	0.34
39 K	520547580.00	A	898500.00	0.17
44 Ca	16349060.00	A	103300.00	0.63
45 Sc	551076.38	P	23050.00	4.18
45 Sc	47673.63	P	492.40	1.03
45 Sc	4163593.00	A	77380.00	1.86
51 V	379824.41	P	2926.00	0.77
52 Cr	546817.31	P	2593.00	0.47
55 Mn	183141.59	P	75.11	0.04
56 Fe	109867500.00	A	1000000.00	0.91
59 Co	1071161.00	A	3436.00	0.32
60 Ni	307798.41	P	464.90	0.15
63 Cu	892826.69	P	1605.00	0.18
65 Cu	447836.59	P	3132.00	0.70
66 Zn	101747.40	P	254.30	0.25
72 Ge	144814.70	P	4340.00	3.00
72 Ge	50767.78	P	377.00	0.74
75 As	62381.34	P	349.90	0.56
78 Se	52326.25	P	270.80	0.52
89 Y	5880500.00	A	123400.00	2.10
98 Mo	2482566.00	A	14980.00	0.60
107 Ag	3841484.00	A	55720.00	1.45
111 Cd	851084.63	P	10810.00	1.27
115 In	5424376.00	A	119300.00	2.20
118 (In)		A		
118 (In)		A		
118 (In)		A		
121 Sb	3154858.00	A	14040.00	0.45
137 Ba	1189168.00	A	2120.00	0.18
159 Tb	7436232.00	A	212500.00	2.86
205 Tl	3465909.00	A	5212.00	0.15
208 Pb	9664970.00	A	79030.00	0.82
209 Bi	4152474.00	A	61610.00	1.48

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2405859.30	1.22	2429214.80	99.0	80 - 120	
45 Sc	551076.38	4.18	531410.94	103.7	80 - 120	
45 Sc	47673.63	1.03	44919.69	106.1	80 - 120	
45 Sc	4163592.80	1.86	4038135.80	103.1	80 - 120	
72 Ge	144814.69	3.00	142959.45	101.3	80 - 120	
72 Ge	50767.78	0.74	48734.94	104.2	80 - 120	
89 Y	5880500.50	2.10	5779678.50	101.7	80 - 120	
115 In	5424376.00	2.20	5554338.50	97.7	80 - 120	
159 Tb	7436232.50	2.86	7412451.50	100.3	80 - 120	
209 Bi	4152474.00	1.48	4431133.50	93.7	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\07J22j00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352014 File : j22j0014 Time : 22-OCT-2007 10:33
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7375, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	A	0.3064	0.2816	10000	9973	ug/L	0	10	
Antimony	A	0.1631	0.1493	100.0	101.7	ug/L	2	10	
Barium	A	0.0633	0.0379	100.0	95.04	ug/L	-5	10	
Beryllium	A	0.1468	0.1545	100.0	103.2	ug/L	3	10	
Cadmium	A	0.0402	0.0395	100.0	100.1	ug/L	0	10	
Calcium	A	0.0210	0.0100	10000	10120	ug/L	1	10	
Lead	A	0.4011	0.3146	100.0	96.01	ug/L	-4	10	
Magnesium	A	0.2526	0.2344	10000	10060	ug/L	1	10	
Molybdenum	A	0.1063	0.1071	100.0	100.3	ug/L	0	10	
Potassium	A	0.8261	0.3208	10000	10140	ug/L	1	10	
Silver	A	0.2126	0.1871	100.0	104.9	ug/L	5	10	
Thallium	A	0.4254	0.4056	50.00	48.39	ug/L	-3	10	
Arsenic	E	0.3563	0.3109	100.0	100.7	ug/L	1	10	
Chromium	E	4.5592	2.9010	100.0	100.5	ug/L	1	10	
Cobalt	E	6.1014	5.6643	100.0	100.1	ug/L	0	10	
Copper	E	9.7770	4.4855	100.0	101.0	ug/L	1	10	
Manganese	E	1.1710	0.9534	100.0	98.78	ug/L	-1	10	
Nickel	E	2.4492	1.6584	100.0	101.7	ug/L	2	10	
Sodium	E	0.5482	0.2325	10000	9966	ug/L	0	10	
Vanadium	E	2.1699	1.9678	100.0	98.31	ug/L	-2	10	
Zinc	E	3.1079	0.5169	100.0	101.4	ug/L	1	10	
Iron	H	0.5659	0.5209	10000	10300	ug/L	3	10	
Selenium	H	0.0958	0.0940	100.0	102.8	ug/L	3	10	

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	2437773	0.35
Scandium	A	4038136	4146660	2.69
Scandium	E	44920	47915	6.67
Scandium	H	531411	536747	1.00
Germanium	H	142960	143226	0.19
Germanium	E	48735	50969	4.58
Indium	A	5554339	5500354	-0.97
Bismuth	A	4431134	4267455	-3.69
Yttrium	A	5779679	5836689	0.99
Terbium	A	7412452	7397134	-0.21

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352016 File : j22j0016 Time : 22-OCT-2007 10:45
Cal : 897425352001 Caldate : 22-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[5.728]	10.00	1.698	ug/L	!ib
Antimony	A	[0.05183]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.04875]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.04909]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.05877]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.06344]	0.1000	0.006965	ug/L	!ib
Magnesium	A	[5.277]	10.00	1.686	ug/L	!ib
Molybdenum	A	[0.05953]	0.1000	0.02655	ug/L	!ib
Potassium	A	[4.758]	10.00	2.504	ug/L	!ib
Silver	A	[0.05359]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.03171]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.05159]	0.1000	0.007290	ug/L	!ib
Chromium	E	[0.02539]	0.1000	0.002192	ug/L	!ib
Cobalt	E	[0.03789]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	[0.04678]	0.1000	0.009943	ug/L	!ib
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.02659]	0.1000	0.003304	ug/L	!ib
Zinc	E	[0.05986]	0.1000	0.01941	ug/L	!ib
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.02849]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	2440616	0.47
Scandium	A	4038136	4047412	0.23
Scandium	E	44920	47110	4.88
Scandium	H	531411	540105	1.64
Germanium	H	142960	144909	1.36
Germanium	E	48735	50754	4.14
Indium	A	5554339	5630422	1.37
Bismuth	A	4431134	4429509	-0.04
Yttrium	A	5779679	5840141	1.05
Terbium	A	7412452	7429695	0.23

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352018 File : j22j0018 Time : 22-OCT-2007 10:57
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7377, S7379

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.5986	0.1000	ug/L	
Barium	A	22.23	0.1000	ug/L	
Beryllium	A	[0.02869]	0.1000	ug/L	
Cadmium	A	1.605	0.1000	ug/L	
Lead	A	0.6404	0.1000	ug/L	
Silver	A	0.2175	0.1000	ug/L	
Thallium	A	0.05047	0.05000	ug/L	
Arsenic	E	0.2652	0.1000	ug/L	
Chromium	E	1.458	0.1000	ug/L	
Cobalt	E	0.2450	0.1000	ug/L	
Copper	E	1.955	0.1000	ug/L	
Manganese	E	0.8135	0.1000	ug/L	
Nickel	E	1.536	0.1000	ug/L	
Vanadium	E	[0.06361]	0.1000	ug/L	
Zinc	E	41.77	0.1000	ug/L	
Selenium	H	[0.09648]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	105100	ug/L	105
Calcium	A	300000	324300	ug/L	108
Magnesium	A	100000	103100	ug/L	103
Molybdenum	A	2000	2090	ug/L	105
Potassium	A	100000	104900	ug/L	105
Sodium	E	250000	256400	ug/L	103
Iron	H	250000	259100	ug/L	104

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	1877236	-22.72
Scandium	A	4038136	3438957	-14.84
Scandium	E	44920	46949	4.52
Scandium	H	531411	512651	-3.53
Germanium	H	142960	125356	-12.31
Germanium	E	48735	48007	-1.49
Indium	A	5554339	4406641	-20.66
Bismuth	A	4431134	3351835	-24.36
Yttrium	A	5779679	4927676	-14.74
Terbium	A	7412452	6409323	-13.53

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352019 File : j22j0019 Time : 22-OCT-2007 11:03
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7378, S7379

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	100300	ug/L	0		
Cadmium	A	100.0	109.4	ug/L	9	20	
Calcium	A	300000	313800	ug/L	5		
Magnesium	A	100000	97620	ug/L	-2		
Molybdenum	A	2000	2037	ug/L	2		
Potassium	A	100000	101400	ug/L	1		
Silver	A	50.00	52.58	ug/L	5	20	
Arsenic	E	100.0	117.7	ug/L	18	20	
Chromium	E	200.0	221.3	ug/L	11	20	
Cobalt	E	200.0	206.9	ug/L	3	20	
Copper	E	200.0	202.0	ug/L	1	20	
Manganese	E	200.0	217.1	ug/L	9	20	
Nickel	E	200.0	201.8	ug/L	1	20	
Sodium	E	250000	259400	ug/L	4		
Vanadium	E	200.0	224.6	ug/L	12	20	
Zinc	E	100.0	101.5	ug/L	2	20	
Iron	H	250000	262000	ug/L	5		
Selenium	H	100.0	120.0	ug/L	20	20	

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	531411	486029	-8.54
Scandium	A	4038136	3306161	-18.13
Scandium	E	44920	44896	-0.05
Germanium	H	142960	118035	-17.43
Germanium	E	48735	46014	-5.58
Indium	A	5554339	4267796	-23.16
Yttrium	A	5779679	4763346	-17.58

897425352019

00284

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352033 File : j22j0033 Time : 22-OCT-2007 12:28
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3064	0.2776	10000	9832	ug/L	-2	10	
Antimony	A	0.1631	0.1529	100.0	104.1	ug/L	4	10	
Barium	A	0.0633	0.0378	100.0	94.88	ug/L	-5	10	
Beryllium	A	0.1468	0.1533	100.0	102.4	ug/L	2	10	
Cadmium	A	0.0402	0.0395	100.0	100.2	ug/L	0	10	
Calcium	A	0.0210	0.0101	10000	10160	ug/L	2	10	
Lead	A	0.4011	0.3167	100.0	96.66	ug/L	-3	10	
Magnesium	A	0.2526	0.2342	10000	10050	ug/L	1	10	
Molybdenum	A	0.1063	0.1075	100.0	100.7	ug/L	1	10	
Potassium	A	0.8261	0.3180	10000	10050	ug/L	1	10	
Silver	A	0.2126	0.1885	100.0	105.7	ug/L	6	10	
Thallium	A	0.4254	0.4093	50.00	48.83	ug/L	-2	10	
Arsenic	E	0.3563	0.3117	100.0	101.0	ug/L	1	10	
Chromium	E	4.5592	2.9344	100.0	101.6	ug/L	2	10	
Cobalt	E	6.1014	5.7341	100.0	101.4	ug/L	1	10	
Copper	E	9.7770	4.4268	100.0	99.66	ug/L	0	10	
Manganese	E	1.1710	0.9697	100.0	100.5	ug/L	1	10	
Nickel	E	2.4492	1.6833	100.0	103.2	ug/L	3	10	
Sodium	E	0.5482	0.2355	10000	10090	ug/L	1	10	
Vanadium	E	2.1699	2.0007	100.0	99.96	ug/L	0	10	
Zinc	E	3.1079	0.5165	100.0	101.3	ug/L	1	10	
Iron	H	0.5659	0.5291	10000	10460	ug/L	5	10	
Selenium	H	0.0958	0.0941	100.0	102.9	ug/L	3	10	

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	2238421	-7.85
Scandium	A	4038136	3847721	-4.72
Scandium	E	44920	45991	2.38
Scandium	H	531411	505462	-4.88
Germanium	H	142960	134995	-5.57
Germanium	E	48735	49693	1.97
Indium	A	5554339	5209450	-6.21
Bismuth	A	4431134	4135906	-6.66
Yttrium	A	5779679	5540247	-4.14
Terbium	A	7412452	7128328	-3.83

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352036 File : j22j0036 Time : 22-OCT-2007 12:47
Cal : 897425352001 Caldate : 22-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[2.143]	10.00	1.698	ug/L	!ib
Antimony	A	[0.01769]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.02782]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.01761]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.01855]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.03018]	0.1000	0.006965	ug/L	!ib
Magnesium	A	[3.912]	10.00	1.686	ug/L	!ib
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	ND	10.00	2.504	ug/L	
Silver	A	[0.01903]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.006439]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.02480]	0.1000	0.007290	ug/L	!ib
Chromium	E	[0.01654]	0.1000	0.002192	ug/L	!ib
Cobalt	E	[0.01627]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	[0.03121]	0.1000	0.009943	ug/L	!ib
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.02083]	0.1000	0.003304	ug/L	!ib
Zinc	E	0.1151	0.1000	0.01941	ug/L	ib ***
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	ND	0.1000	0.004305	ug/L	

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	2330727	-4.05
Scandium	A	4038136	3896974	-3.50
Scandium	E	44920	46657	3.87
Scandium	H	531411	512470	-3.56
Germanium	H	142960	138040	-3.44
Germanium	E	48735	50601	3.83
Indium	A	5554339	5474027	-1.45
Bismuth	A	4431134	4353808	-1.75
Yttrium	A	5779679	5638326	-2.45
Terbium	A	7412452	7292986	-1.61

!=warning ib=instrument blank

897425352036

00286

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352037 File : j22j0037 Time : 22-OCT-2007 12:53
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7377, S7379

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.5968	0.1000	ug/L	
Barium	A	22.40	0.1000	ug/L	
Beryllium	A	[0.02738]	0.1000	ug/L	
Cadmium	A	1.596	0.1000	ug/L	
Lead	A	0.6488	0.1000	ug/L	
Silver	A	0.2160	0.1000	ug/L	
Thallium	A	[0.04228]	0.05000	ug/L	
Arsenic	E	0.2867	0.1000	ug/L	
Chromium	E	1.468	0.1000	ug/L	
Cobalt	E	0.2334	0.1000	ug/L	
Copper	E	1.917	0.1000	ug/L	
Manganese	E	0.8022	0.1000	ug/L	
Nickel	E	1.587	0.1000	ug/L	
Vanadium	E	[0.05460]	0.1000	ug/L	
Zinc	E	42.14	0.1000	ug/L	
Selenium	H	[0.07902]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	104000	ug/L	104
Calcium	A	300000	322900	ug/L	108
Magnesium	A	100000	101700	ug/L	102
Molybdenum	A	2000	2073	ug/L	104
Potassium	A	100000	105300	ug/L	105
Sodium	E	250000	256500	ug/L	103
Iron	H	250000	250100	ug/L	100

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	1786253	-26.47
Scandium	A	4038136	3320370	-17.77
Scandium	E	44920	44915	-0.01
Scandium	H	531411	487417	-8.28
Germanium	H	142960	118322	-17.23
Germanium	E	48735	46041	-5.53
Indium	A	5554339	4295391	-22.67
Bismuth	A	4431134	3270798	-26.19
Yttrium	A	5779679	4813605	-16.72
Terbium	A	7412452	6239812	-15.82

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352038 File : j22j0038 Time : 22-OCT-2007 12:59
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7378, S7379

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	101700	ug/L	2		
Cadmium	A	100.0	109.0	ug/L	9	20	
Calcium	A	300000	317400	ug/L	6		
Magnesium	A	100000	98420	ug/L	-2		
Molybdenum	A	2000	2024	ug/L	1		
Potassium	A	100000	103400	ug/L	3		
Silver	A	50.00	52.68	ug/L	5	20	
Arsenic	E	100.0	116.2	ug/L	16	20	
Chromium	E	200.0	217.3	ug/L	9	20	
Cobalt	E	200.0	204.3	ug/L	2	20	
Copper	E	200.0	197.2	ug/L	-1	20	
Manganese	E	200.0	215.2	ug/L	8	20	
Nickel	E	200.0	198.6	ug/L	-1	20	
Sodium	E	250000	251500	ug/L	1		
Vanadium	E	200.0	221.6	ug/L	11	20	
Zinc	E	100.0	98.97	ug/L	-1	20	
Iron	H	250000	248500	ug/L	-1		
Selenium	H	100.0	116.1	ug/L	16	20	

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	531411	480826	-9.52
Scandium	A	4038136	3179568	-21.26
Scandium	E	44920	44111	-1.80
Germanium	H	142960	115998	-18.86
Germanium	E	48735	45376	-6.89
Indium	A	5554339	4185992	-24.64
Yttrium	A	5779679	4669085	-19.22

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352054 File : j22j0054 Time : 22-OCT-2007 14:47
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3064	0.2780	10000	9846	ug/L	-2	10	
Antimony	A	0.1631	0.1511	100.0	102.8	ug/L	3	10	
Barium	A	0.0633	0.0378	100.0	94.75	ug/L	-5	10	
Beryllium	A	0.1468	0.1495	100.0	99.89	ug/L	0	10	
Cadmium	A	0.0402	0.0394	100.0	99.79	ug/L	0	10	
Calcium	A	0.0210	0.0101	10000	10150	ug/L	2	10	
Lead	A	0.4011	0.3152	100.0	96.19	ug/L	-4	10	
Magnesium	A	0.2526	0.2309	10000	9912	ug/L	-1	10	
Molybdenum	A	0.1063	0.1076	100.0	100.8	ug/L	1	10	
Potassium	A	0.8261	0.3192	10000	10090	ug/L	1	10	
Silver	A	0.2126	0.1874	100.0	105.1	ug/L	5	10	
Thallium	A	0.4254	0.4067	50.00	48.51	ug/L	-3	10	
Arsenic	E	0.3563	0.3106	100.0	100.6	ug/L	1	10	
Chromium	E	4.5592	2.8850	100.0	99.91	ug/L	0	10	
Cobalt	E	6.1014	5.6429	100.0	99.74	ug/L	0	10	
Copper	E	9.7770	4.3650	100.0	98.27	ug/L	-2	10	
Manganese	E	1.1710	0.9681	100.0	100.3	ug/L	0	10	
Nickel	E	2.4492	1.6429	100.0	100.7	ug/L	1	10	
Sodium	E	0.5482	0.2332	10000	9995	ug/L	0	10	
Vanadium	E	2.1699	1.9801	100.0	98.92	ug/L	-1	10	
Zinc	E	3.1079	0.5146	100.0	100.9	ug/L	1	10	
Iron	H	0.5659	0.5133	10000	10140	ug/L	1	10	
Selenium	H	0.0958	0.0914	100.0	100.0	ug/L	0	10	

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	2267955	-6.64
Scandium	A	4038136	3835217	-5.03
Scandium	E	44920	44872	-0.11
Scandium	H	531411	514053	-3.27
Germanium	H	142960	138672	-3.00
Germanium	E	48735	48234	-1.03
Indium	A	5554339	5273640	-5.05
Bismuth	A	4431134	4182906	-5.60
Yttrium	A	5779679	5546262	-4.04
Terbium	A	7412452	7210606	-2.72

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16
Seqnum : 897425352057 File : j22j0057 IDF : 1.0
Cal : 897425352001 Caldate : 22-OCT-2007 Time : 22-OCT-2007 15:06

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[2.706]	10.00	1.698	ug/L	!ib
Antimony	A	[0.02267]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.02951]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.02408]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.02454]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.03926]	0.1000	0.006965	ug/L	!ib
Magnesium	A	[2.629]	10.00	1.686	ug/L	!ib
Molybdenum	A	[0.03078]	0.1000	0.02655	ug/L	!ib
Potassium	A	ND	10.00	2.504	ug/L	
Silver	A	[0.02343]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.01345]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.02699]	0.1000	0.007290	ug/L	!ib
Chromium	E	ND	0.1000	0.002192	ug/L	
Cobalt	E	[0.02417]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	[0.04096]	0.1000	0.009943	ug/L	!ib
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	[2.362]	10.00	2.311	ug/L	!ib
Vanadium	E	[0.03085]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.03214]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	2418417	-0.44
Scandium	A	4038136	4075159	0.92
Scandium	E	44920	44952	0.07
Scandium	H	531411	513591	-3.35
Germanium	H	142960	140255	-1.89
Germanium	E	48735	48347	-0.80
Indium	A	5554339	5788448	4.21
Bismuth	A	4431134	4544304	2.55
Yttrium	A	5779679	5980463	3.47
Terbium	A	7412452	7772276	4.85

!=warning ib=instrument blank

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352070 File : j22j0070 Time : 22-OCT-2007 16:28
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7376, S7379

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3064	0.2774	10000	9825	ug/L	-2	10	
Antimony	A	0.1631	0.1505	100.0	102.4	ug/L	2	10	
Barium	A	0.0633	0.0383	100.0	96.05	ug/L	-4	10	
Beryllium	A	0.1468	0.1496	100.0	99.99	ug/L	0	10	
Cadmium	A	0.0402	0.0393	100.0	99.69	ug/L	0	10	
Calcium	A	0.0210	0.0101	10000	10150	ug/L	2	10	
Lead	A	0.4011	0.3078	100.0	93.94	ug/L	-6	10	
Magnesium	A	0.2526	0.2295	10000	9855	ug/L	-1	10	
Molybdenum	A	0.1063	0.1064	100.0	99.68	ug/L	0	10	
Potassium	A	0.8261	0.3213	10000	10160	ug/L	2	10	
Silver	A	0.2126	0.1887	100.0	105.8	ug/L	6	10	
Thallium	A	0.4254	0.4067	50.00	48.52	ug/L	-3	10	
Arsenic	E	0.3563	0.3091	100.0	100.1	ug/L	0	10	
Chromium	E	4.5592	2.7828	100.0	96.36	ug/L	-4	10	
Cobalt	E	6.1014	5.4041	100.0	95.52	ug/L	-4	10	
Copper	E	9.7770	4.2726	100.0	96.18	ug/L	-4	10	
Manganese	E	1.1710	0.9531	100.0	98.75	ug/L	-1	10	
Nickel	E	2.4492	1.5812	100.0	96.91	ug/L	-3	10	
Sodium	E	0.5482	0.2233	10000	9566	ug/L	-4	10	
Vanadium	E	2.1699	1.9299	100.0	96.42	ug/L	-4	10	
Zinc	E	3.1079	0.5076	100.0	99.54	ug/L	0	10	
Iron	H	0.5659	0.5172	10000	10220	ug/L	2	10	
Selenium	H	0.0958	0.0904	100.0	98.87	ug/L	-1	10	

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	2336326	-3.82
Scandium	A	4038136	3975566	-1.55
Scandium	E	44920	48106	7.09
Scandium	H	531411	512136	-3.63
Germanium	H	142960	139364	-2.52
Germanium	E	48735	50819	4.28
Indium	A	5554339	5306501	-4.46
Bismuth	A	4431134	4113037	-7.18
Yttrium	A	5779679	5704289	-1.30
Terbium	A	7412452	7236293	-2.38

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16
Seqnum : 897425352073 File : j22j0073 IDF : 1.0
Cal : 897425352001 Caldate : 22-OCT-2007 Time : 22-OCT-2007 16:47

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	1.698	ug/L	
Antimony	A	[0.002310]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.006338]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.003280]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.004396]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.02978]	0.1000	0.006965	ug/L	!ib
Magnesium	A	ND	10.00	1.686	ug/L	
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	[5.077]	10.00	2.504	ug/L	!ib
Silver	A	[0.002539]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.009541]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.01580]	0.1000	0.007290	ug/L	!ib
Chromium	E	ND	0.1000	0.002192	ug/L	
Cobalt	E	[0.006257]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	[0.02845]	0.1000	0.009943	ug/L	!ib
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.004566]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.01439]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	2325756	-4.26
Scandium	A	4038136	3802381	-5.84
Scandium	E	44920	46144	2.73
Scandium	H	531411	498570	-6.18
Germanium	H	142960	136987	-4.18
Germanium	E	48735	49285	1.13
Indium	A	5554339	5300815	-4.56
Bismuth	A	4431134	4212140	-4.94
Yttrium	A	5779679	5515438	-4.57
Terbium	A	7412452	7114596	-4.02

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352074 File : j22j0074 Time : 22-OCT-2007 16:53
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7377, S7379

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.3846	0.1000	ug/L	
Barium	A	7.875	0.1000	ug/L	
Beryllium	A	[0.02454]	0.1000	ug/L	
Cadmium	A	1.452	0.1000	ug/L	
Lead	A	0.4475	0.1000	ug/L	
Silver	A	0.1917	0.1000	ug/L	
Thallium	A	[0.04212]	0.05000	ug/L	
Arsenic	E	0.2275	0.1000	ug/L	
Chromium	E	1.272	0.1000	ug/L	
Cobalt	E	0.2061	0.1000	ug/L	
Copper	E	1.098	0.1000	ug/L	
Manganese	E	0.5941	0.1000	ug/L	
Nickel	E	1.131	0.1000	ug/L	
Vanadium	E	[0.04259]	0.1000	ug/L	
Zinc	E	8.580	0.1000	ug/L	
Selenium	H	[0.06431]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	95100	ug/L	95
Calcium	A	300000	296500	ug/L	99
Magnesium	A	100000	92330	ug/L	92
Molybdenum	A	2000	1906	ug/L	95
Potassium	A	100000	97350	ug/L	97
Sodium	E	250000	232900	ug/L	93
Iron	H	250000	235900	ug/L	94

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2429215	1809523	-25.51
Scandium	A	4038136	3323772	-17.69
Scandium	E	44920	45190	0.60
Scandium	H	531411	463578	-12.76
Germanium	H	142960	115282	-19.36
Germanium	E	48735	46004	-5.60
Indium	A	5554339	4288640	-22.79
Bismuth	A	4431134	3225285	-27.21
Yttrium	A	5779679	4812913	-16.73
Terbium	A	7412452	6204167	-16.30

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897425352075 File : j22j0075 Time : 22-OCT-2007 16:59
Cal : 897425352001 Caldate : 22-OCT-2007
Standards: S7378, S7379

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	95340	ug/L	-5		
Cadmium	A	100.0	99.91	ug/L	0	20	
Calcium	A	300000	298700	ug/L	0		
Magnesium	A	100000	92420	ug/L	-8		
Molybdenum	A	2000	1916	ug/L	-4		
Potassium	A	100000	98460	ug/L	-2		
Silver	A	50.00	48.33	ug/L	-3	20	
Arsenic	E	100.0	107.8	ug/L	8	20	
Chromium	E	200.0	197.2	ug/L	-1	20	
Cobalt	E	200.0	183.5	ug/L	-8	20	
Copper	E	200.0	179.9	ug/L	-10	20	
Manganese	E	200.0	198.2	ug/L	-1	20	
Nickel	E	200.0	179.9	ug/L	-10	20	
Sodium	E	250000	238400	ug/L	-5		
Vanadium	E	200.0	202.2	ug/L	1	20	
Zinc	E	100.0	97.74	ug/L	-2	20	
Iron	H	250000	236400	ug/L	-5		
Selenium	H	100.0	106.7	ug/L	7	20	

ISTD (ICALBLK j22j0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	531411	464596	-12.57
Scandium	A	4038136	3280865	-18.75
Scandium	E	44920	45080	0.36
Germanium	H	142960	114026	-20.24
Germanium	E	48735	45931	-5.75
Indium	A	5554339	4293456	-22.70
Yttrium	A	5779679	4797269	-17.00

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 897425352

Date : 10/22/07
Sequence : MET16 j22j0

Reference : j22j0004
Analyzed : 10/22/07 09:32

#	Type	Sample ID	LI A	SC A	SC E	SC H	GE H	GE E	IN A	BI A	Y A	TB A
		IB+ICALBLK STD	2429215	4038136	44920	531411	142960	48735	5554339	4431134	5779679	7412452
		LOWER LIMIT	728765	1211441	13476	159423	42888	14620	1666302	1329340	1733904	2223736
		UPPER LIMIT	2915058	4845763	53904	637693	171551	58482	6665207	5317361	6935615	8894942
016	ICB		2440616	4047412	47110	540105	144909	50754	5630422	4429509	5840141	7429695
018	ICSA		1877236	3438957	46949	512651	125356	48007	4406641	3351835	4927676	6409323
019	ICSAB		1771687	3306161	44896	486029	118035	46014	4267796	3307546	4763346	6254248
024	SER	QC409855	2215501	3747174	44155	506740	135294	49058	5304940	4295049	5437233	7162568
025	SAMPLE	198379-010	2310204	3860443	45167	512300	133164	48649	5394806	4331078	5612731	7322473
026	SAMPLE	198379-014	2296131	3825890	47705	509526	133018	50678	5364925	4280801	5561994	7248934
027	MSS	198379-005	2100807	4082793	50248	572837	127729	45930	4758117	3665799	5129765	6710228
028	SER	QC410997	2237622	3910414	45644	515247	132185	47915	5148995	4023090	5471846	7084919
029	PDS	QC410998	2065851	4030623	49054	578217	128102	45198	4645081	3594773	5088488	6612220
033	CCV		2238421	3847721	45991	505462	134995	49693	5209450	4135906	5540247	7128328
036	CCB		2330727	3896974	46657	512470	138040	50601	5474027	4353808	5638326	7292986
037	ICSA		1786253	3320370	44915	487417	118322	46041	4295391	3270798	4813605	6239812
038	ICSAB		1711173	3179568	44111	480826	115998	45376	4185992	3242451	4669085	6142499
043	SAMPLE	198226-006	2096153	3572211	43839	481277	127179	47584	4983571	3914025	5233956	6836682
044	SAMPLE	198226-011	2063919	4097453	54486 *	518343	125994	52751	4838381	3326819	5448057	6498809
045	SAMPLE	198226-012	2106126	4109515	55061 *	568128	136315	52645	4821209	3294558	5432984	6431869
047	BS	QC411322	2233522	3827158	46128	522188	137423	48991	5232079	4148867	5541069	7256841
048	BSD	QC411323	2166226	3652636	46347	498937	133889	49116	5061534	3999991	5342646	6931205
050	MSS	198388-001	2246768	3767330	45003	520280	140357	49204	5271248	4131733	5462784	7087108
051	MS	QC411324	2220967	3699590	43762	477774	130218	47680	5170849	4174171	5448867	7132179
052	MSD	QC411325	2210814	3695654	43576	491587	133953	47383	5213774	4124091	5432846	7136284
054	CCV		2267955	3835217	44872	514053	138672	48234	5273640	4182906	5546262	7210606
057	CCB		2418417	4075159	44952	513591	140255	48347	5788448	4544304	5980463	7772276
060	BLANK	QC411394	2321443	3785024	44269	511430	139486	47878	5360738	4360085	5557849	7301197
061	BS	QC411395	2224127	3650704	46094	523076	138488	48692	5084689	4065228	5303939	6903837
062	BSD	QC411396	2299383	3817933	45369	517260	138274	48269	5323943	4219076	5549240	7139473
064	MSS	198380-002	2199931	3811021	47065	545170	137680	48750	4945433	3966803	6113079	6834018
065	SER	QC411399	2368296	3949780	47789	522773	141504	50767	5417169	4317563	5860104	7217813
066	MS	QC411397	2289810	4016831	49205	516987	132594	50412	5245801	4107407	6351136	7127841
067	MSD	QC411398	2251545	3984617	49221	525199	132511	50104	5109863	3994188	6374684	7037390
068	PDS	QC411400	2202568	3885331	47411	511626	128583	48274	4917789	3885215	6176766	6847760
070	CCV		2336326	3975566	48106	512136	139364	50819	5306501	4113037	5704289	7236293
073	CCB		2325756	3802381	46144	498570	136987	49285	5300815	4212140	5515438	7114596
074	ICSA		1809523	3323772	45190	463578	115282	46004	4288640	3225285	4812913	6204167
075	ICSAB		1787736	3280865	45080	464596	114026	45931	4293456	3266051	4797269	6252061

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 897425352 Instrument: MET16 Agilent ICP-MS MET16 Begun: 22-OCT-2007
nalytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
01	j22j0001	TUN				22-OCT-2007 09:12	1.0	1.0				1	
02	j22j0002	X	RINSE			22-OCT-2007 09:20	1.0					2	
03	j22j0003	X	RINSE			22-OCT-2007 09:26	1.0					2	
04	j22j0004	ICALBLK	CALBLANK			22-OCT-2007 09:32	1.0	1.0				2	
05	j22j0005	ICAL				22-OCT-2007 09:38	1.0	1.0				3 2	
06	j22j0006	ICAL				22-OCT-2007 09:44	1.0	1.0				4 2	
07	j22j0007	ICAL				22-OCT-2007 09:50	1.0	1.0				5 2	
08	j22j0008	ICAL				22-OCT-2007 09:56	1.0	1.0				6 2	
09	j22j0009	ICAL				22-OCT-2007 10:01	1.0	1.0				7 2	
10	j22j0010	ICAL				22-OCT-2007 10:08	1.0	1.0				8 2	
11	j22j0011	X	RINSE			22-OCT-2007 10:15	1.0					2	
12	j22j0012	X				22-OCT-2007 10:21	1.0					9 2	
13	j22j0013	X	RINSE			22-OCT-2007 10:27	1.0					2	
14	j22j0014	ICV				22-OCT-2007 10:33	1.0	1.0			1	9 2	
15	j22j0015	X	RINSE			22-OCT-2007 10:39	1.0					2	
16	j22j0016	ICB				22-OCT-2007 10:45	1.0	1.0			1	2	
17	j22j0017	X				22-OCT-2007 10:51	1.0					2	
18	j22j0018	ICSA				22-OCT-2007 10:57	1.0	1.0			1	10 2	7:CA=324300
19	j22j0019	ICSAB				22-OCT-2007 11:03	1.0	1.0			1	11 2	13:CA=313800
20	j22j0020	X	RINSE			22-OCT-2007 11:09	1.0					2	
21	j22j0021	X	RINSE			22-OCT-2007 11:15	1.0					2	
22	j22j0022	X	RINSE			22-OCT-2007 11:24	1.0					2	
23	j22j0023	X	RINSE			22-OCT-2007 11:30	1.0					2	
24	j22j0024	SER	QC409855	130381	Filtra	22-OCT-2007 11:36	25.0	1.0		2	1	2	1:NA=21916.0
25	j22j0025	SAMPLE	198379-010	130650	Soil	22-OCT-2007 11:42	500.0	46.73	1		1	2	
26	j22j0026	SAMPLE	198379-014	130650	Soil	22-OCT-2007 11:47	500.0	44.64			1	2	
27	j22j0027	MSS	198379-005	130650	Soil	22-OCT-2007 11:53	10.0	48.08	5		1	2	4:FE=82210.0
28	j22j0028	SER	QC410997	130650	Soil	22-OCT-2007 11:59	50.0	48.08		6	1	2	4:MG=73320.0
29	j22j0029	PDS	QC410998	130650	Soil	22-OCT-2007 12:05	10.0	48.08	1		1	12 13 2	5:FE=87770.(
30	j22j0030	X	RINSE			22-OCT-2007 12:11	1.0					2	
31	j22j0031	X	RINSE			22-OCT-2007 12:16	1.0					2	

ds used: 1=S7368 2=S7369 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S6222 13=S6223 14=S7376

nalyst: _____ Date: 10/22/07

ge 1 of 3

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 897425352 Instrument: MET16 Agilent ICP-MS MET16 Begun: 22-OCT-2007
nalytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
32	j22j0032	X	RINSE			22-OCT-2007 12:22	1.0				2	
33	j22j0033	CCV				22-OCT-2007 12:28	1.0	1.0		1	14 2	
34	j22j0034	X	RINSE			22-OCT-2007 12:35	1.0				2	
35	j22j0035	X				22-OCT-2007 12:41	1.0				2	
36	j22j0036	CCB				22-OCT-2007 12:47	1.0	1.0	1	1	2	
37	j22j0037	ICSA				22-OCT-2007 12:53	1.0	1.0		1	10 2	7:CA=322900
38	j22j0038	ICSAB				22-OCT-2007 12:59	1.0	1.0		1	11 2	11:CA=317400
39	j22j0039	X	RINSE			22-OCT-2007 13:05	1.0				2	
40	j22j0040	X	RINSE			22-OCT-2007 13:11	1.0				2	
41	j22j0041	X	RINSE			22-OCT-2007 13:17	1.0				2	
42	j22j0042	X	RINSE			22-OCT-2007 13:23	1.0				2	
43	j22j0043	SAMPLE	198226-006	130420	Filtra	22-OCT-2007 13:29	10.0	1.0	1	1	2	1:NA=58960.0
44	j22j0044	SAMPLE	198226-011	130420	Filtra	22-OCT-2007 13:35	10.0	1.0	8	1	2	3:NA=766800
45	j22j0045	SAMPLE	198226-012	130420	Filtra	22-OCT-2007 13:41	10.0	1.0	9	1	2	4:NA=851500
46	j22j0046	X	RINSE			22-OCT-2007 13:57	1.0				2	
47	j22j0047	BS	QC411322	130727	Water	22-OCT-2007 14:03	1.0	1.0		1	2	
48	j22j0048	BSD	QC411323	130727	Water	22-OCT-2007 14:10	1.0	1.0		1	2	
49	j22j0049	X	RINSE			22-OCT-2007 14:18	1.0				2	
50	j22j0050	MSS	198388-001	130727	Water	22-OCT-2007 14:23	5.0	1.0	1	1	2	1:CA=26520.0
51	j22j0051	MS	QC411324	130727	Water	22-OCT-2007 14:29	5.0	1.0		1	2	2:CA=27980.0
52	j22j0052	MSD	QC411325	130727	Water	22-OCT-2007 14:35	5.0	1.0		1	2	2:CA=28000.0
53	j22j0053	X	RINSE			22-OCT-2007 14:42	1.0				2	
54	j22j0054	CCV				22-OCT-2007 14:47	1.0	1.0		1	14 2	
55	j22j0055	X	RINSE			22-OCT-2007 14:54	1.0				2	
56	j22j0056	X				22-OCT-2007 15:00	1.0				2	
57	j22j0057	CCB				22-OCT-2007 15:06	1.0	1.0		1	2	
58	j22j0058	X	NO SAMPLE			22-OCT-2007 15:12	1.0				2	
59	j22j0059	X	NO SAMPLE			22-OCT-2007 15:18	1.0				2	
60	j22j0060	BLANK	QC411394	130746	Soil	22-OCT-2007 15:24	5.0	50.0	1	1	2	
61	j22j0061	BS	QC411395	130746	Soil	22-OCT-2007 15:30	10.0	50.0		1	2	
62	j22j0062	BSD	QC411396	130746	Soil	22-OCT-2007 15:37	10.0	50.0		1	2	

d used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S6222 13=S6223 14=S7376

nalyst: _____ Date: 10/22/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897425352 Instrument: MET16 Agilent ICP-MS MET16 Begun: 22-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	j22j0063	X	RINSE			22-OCT-2007 15:44	1.0					2	
064	j22j0064	MSS	198380-002	130746	Soil	22-OCT-2007 15:50	10.0	50.0	4		1	2	4:CA=42430.0
065	j22j0065	SER	QC411399	130746	Soil	22-OCT-2007 15:56	50.0	50.0		7	1	2	
066	j22j0066	MS	QC411397	130746	Soil	22-OCT-2007 16:02	10.0	50.0		2	1	2	4:CA=37430.0
067	j22j0067	MSD	QC411398	130746	Soil	22-OCT-2007 16:09	10.0	45.87		2	1	2	4:CA=49290.0
068	j22j0068	PDS	QC411400	130746	Soil	22-OCT-2007 16:16	10.0	50.0			1	12 13 2	4:CA=49060.(
069	j22j0069	X	RINSE			22-OCT-2007 16:22	1.0					2	
070	j22j0070	CCV				22-OCT-2007 16:28	1.0	1.0			1	14 2	
071	j22j0071	X	RINSE			22-OCT-2007 16:35	1.0					2	
072	j22j0072	X				22-OCT-2007 16:41	1.0					2	
073	j22j0073	CCB				22-OCT-2007 16:47	1.0	1.0			1	2	
074	j22j0074	ICSA				22-OCT-2007 16:53	1.0	1.0			1	10 2	7:CA=296500
075	j22j0075	ICSAB				22-OCT-2007 16:59	1.0	1.0			1	11 2	8:CA=298700

Stds used: 1=S7368 2=S7369 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S6222 13=S6223 14=S7376

Analyst: _____ Date: 10/22/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET06
Calnum : 67427199001
Units : ug/L

Date : 23-OCT-2007 16:19
X Axis : R

Reviewer : ---

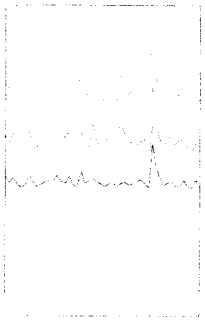
Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	j23p0005	67427199005		23-OCT-2007 16:24	S7371, S7379
L2	j23p0006	67427199006		23-OCT-2007 16:30	S7372, S7379
L3	j23p0007	67427199007		23-OCT-2007 16:36	S7373, S7379
L4	j23p0008	67427199008		23-OCT-2007 16:42	S7374, S7379
L5	j23p0009	67427199009		23-OCT-2007 16:48	S7369, S7379
L6	j23p0010	67427199010		23-OCT-2007 16:55	S7370, S7379

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum	A	0.3425	0.2802	0.2708	0.2599	0.2554	0.2537	BLNK	-1.3846	3.93696		0.2771	1.000	0.995	
Antimony	A	0.2086	0.1415	0.1383	0.1324	0.1302	0.1272	BLNK	-0.0221	7.82665		0.1464	1.000	0.995	
Barium	A	0.1048	0.0486	0.0479	0.0429	0.0411	0.0415	BLNK	-0.0360	24.1456		0.0545	1.000	0.995	
Beryllium	A	0.1307	0.1289	0.1247	0.1258	0.1222	0.1235	BLNK	-0.0039	8.11496		0.1260	1.000	0.995	
Cadmium	A	0.0446	0.0416	0.0398	0.0408	0.0397	0.0393	BLNK	-0.0085	25.3945		0.0410	1.000	0.995	
Calcium	A	0.0489	0.0178	0.0135	0.0106	0.0097	0.0098	BLNK	-34.908	102.789		0.0184	1.000	0.995	
Lead	A	0.5407	0.3547	0.3406	0.3109	0.3044	0.3005	BLNK	-0.0666	3.32027		0.3586	1.000	0.995	
Magnesium	A	0.2559	0.2181	0.2130	0.2039	0.2004	0.1984	BLNK	-1.8501	5.02969		0.2150	1.000	0.995	
Molybdenum	A	0.1259	0.1058	0.1004	0.1007	0.1034	0.1012	BLNK	-0.0227	9.83989		0.1062	1.000	0.995	
Potassium	A	2.6783	0.7672	0.5414	0.3455	0.3150	0.3136	BLNK	-70.923	3.19934		0.8268	1.000	0.995	
Silver	A	0.3698	0.1894	0.2000	0.1785	0.1769	0.1750	BLNK	-0.0094	5.70315		0.2149	1.000	0.995	
Thallium	A	0.6077	0.4178	0.4088	0.3997	0.4071	0.4039	BLNK	-0.0289	2.47306		0.4408	1.000	0.995	
Arsenic	E	0.4732	0.3374	0.3310	0.3161	0.3110	0.3058	BLNK	-0.0189	3.25896		0.3458	1.000	0.995	
Chromium	E	12.618	5.3101	5.2745	3.4205	3.1154	3.0935	BLNK	-0.1973	0.32313		5.4720	1.000	0.995	
Cobalt	E	6.9159	6.3721	6.4181	6.2698	6.0697	6.1087	BLNK	-0.0082	0.16391		6.3590	1.000	0.995	
Copper	E	55.561	27.721	11.398	5.6634	5.0312	4.8771	BLNK	-1.8423	0.20601		18.375	1.000	0.995	
Manganese	E	1.5155	1.0430	1.0329	0.9763	0.9527	0.9435	BLNK	-0.0312	1.05795		1.0773	1.000	0.995	
Nickel	E	7.8883	2.9505	2.4914	1.8996	1.7735	1.7155	BLNK	-0.3488	0.58012		3.1198	1.000	0.995	
Sodium	E	1.7465	0.5221	0.3699	0.2434	0.2202	0.2199	BLNK	-62.551	4.56290		0.5537	1.000	0.995	
Vanadium	E	2.4444	2.2252	2.1666	2.1247	2.0854	2.0780	BLNK	-0.0252	0.48095		2.1874	1.000	0.995	
Zinc	E	18.388	3.8445	2.1593	0.7001	0.5319	0.5043	BLNK	-2.7100	1.99274		4.3546	1.000	0.995	
Iron	H	0.6858	0.5093	0.5194	0.4740	0.4508	0.4445	BLNK	-1.9494	2.24327		0.5140	1.000	0.995	
Selenium	H	0.0996	0.0864	0.0924	0.0870	0.0850	0.0828	BLNK	-0.0082	12.0138		0.0889	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Aluminum	A	10.00	21	50.00	8	100.0	5	1000	2	10000	1	20000	0
Antimony	A	0.100	41	0.500	6	1.000	6	10.00	3	100.0	2	200.0	0
Barium	A	0.100	117	0.500	10	1.000	12	10.00	3	100.0	-1	200.0	0
Beryllium	A	0.100	2	0.500	4	1.000	1	10.00	2	100.0	-1	200.0	0
Cadmium	A	0.100	5	0.500	4	1.000	0	10.00	4	100.0	1	200.0	0
Calcium	A	10.00	53	50.00	13	100.0	4	1000	5	10000	0	20000	0
Lead	A	0.100	13	0.500	4	1.000	6	10.00	3	100.0	1	200.0	0
Magnesium	A	10.00	10	50.00	6	100.0	5	1000	2	10000	1	20000	0
Molybdenum	A	0.100	1	0.500	0	1.000	-3	10.00	-1	100.0	2	200.0	0
Potassium	A	10.00	48	50.00	4	100.0	2	1000	3	10000	0	20000	0
Silver	A	0.100	101	0.500	6	1.000	13	10.00	2	100.0	1	200.0	0
Thallium	A	0.050	-8	0.250	-8	0.500	-5	5.000	-2	50.00	1	100.0	0
Arsenic	E	0.100	35	0.500	6	1.000	6	10.00	3	100.0	1	200.0	0
Chromium	E	0.100	110	0.500	32	1.000	51	10.00	9	100.0	0	200.0	0
Cobalt	E	0.100	5	0.500	3	1.000	4	10.00	3	100.0	-1	200.0	0
Copper	E	0.100	-798	0.500	103	1.000	-49	10.00	-2	100.0	2	200.0	0
Manganese	E	0.100	29	0.500	4	1.000	6	10.00	3	100.0	1	200.0	0
Nickel	E	0.100	9	0.500	1	1.000	10	10.00	7	100.0	3	200.0	-1
Sodium	E	10.00	71	50.00	13	100.0	6	1000	5	10000	0	20000	0
Vanadium	E	0.100	-8	0.500	2	1.000	2	10.00	2	100.0	0	200.0	0
Zinc	E	0.100	854	0.500	124	1.000	59	10.00	12	100.0	3	200.0	-1
Iron	H	10.00	34	50.00	10	100.0	15	1000	6	10000	1	20000	0
Selenium	H	0.100	11	0.500	2	1.000	10	10.00	4	100.0	2	200.0	-1

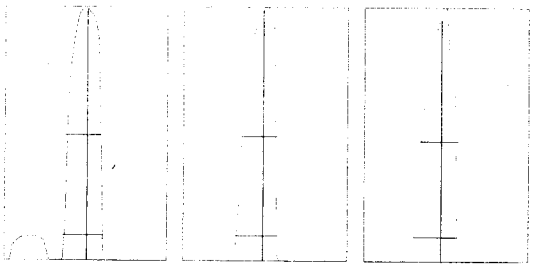
Tune Report

Tune File : nogas.u
Comment :



m/z	Range	Count	Mean	RSD%	Background
7	50,000	20773.0	21828.9	5.13	3.70
89	100,000	55817.0	56847.3	4.17	3.70
205	50,000	34962.0	35939.9	6.18	5.10

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec
n: 50
Oxide: 156/140 1.038%
Doubly Charged: 70/140 1.698%



m/z:	7	89	205
Height:	22,014	56,615	34,835
Axis:	7.05	89.00	204.95
W-50%:	0.65	0.65	0.70
W-10%:	0.7500	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec
Y axis : Linear

===Plasma Condition===

RF Power	:	1600 W
RF Matching	:	1.68 V
Smpl Depth	:	9 mm
Torch-H	:	0.4 mm
Torch-V	:	-0.2 mm
Carrier Gas	:	1.05 L/min
Makeup Gas	:	0 L/min
Optional Gas	:	--- %
Nebulizer Pump	:	0.1 rps
Sample Pump	:	--- rps
S/C Temp	:	2 degC

===Ion Lenses===

Extract 1	:	0 V
Extract 2	:	-130 V
Omega Bias-ce	:	-30 V
Omega Lens-ce	:	-1 V
Cell Entrance	:	-30 V
QP Focus	:	8 V
Cell Exit	:	-30 V

===Octopole Parameters===

OctP RF	:	160 V
OctP Bias	:	-6 V

===Q-Pole Parameters===

AMU Gain	:	140
AMU Offset	:	125
Axis Gain	:	1.0018
Axis Offset	:	-0.03
QP Bias	:	-1 V

===Detector Parameters===

Discriminator	:	8 mV
Analog HV	:	1930 V
Pulse HV	:	1650 V

===Reaction Cell===

Reaction Mode	:	OFF					
H2 Gas	:	0 mL/min	He Gas	:	0 mL/min	Optional Gas	: --- %

Tune File : he.u
He Gas: 6 mL/min
Optional Gas: --- %
QP Focus: -10 V
Cell Exit: -38 V
OctP Bias: -18 V
QP Bias: -16 V

m/z	Count(Mean)	RSD%
51	4.1	50.88
59	4818.2	4.87
89	2251.1	4.64

Integration Time: 0.1000sec

Tune File : h2.u
H2 Gas: 5 mL/min
Optional Gas: --- %
QP Focus: -10 V
Cell Exit: -38 V
OctP Bias: -18 V
QP Bias: -16 V

m/z	Count(Mean)	RSD%
59	3937.5	4.37
78	0.3	225.88
89	34723.7	3.59

Integration Time: 0.1000sec

Generated : Oct 23, 2007 15:32:27
Printed : Oct 23, 2007 15:34:05

P/A Factor Tuning Report

Acquired:Oct 23 2007 03:46 pm

Mass[amu]	Element	P/A Factor
6	Li	0.061600
7	(Li)	0.063005
9	Be	0.068616
23	Na	Sensitivity too high
24	Mg	Sensitivity too high
27	Al	Sensitivity too high
39	K	Sensitivity too high
44	Ca	0.082659
45	Sc	Sensitivity too low
51	V	0.084880
52	Cr	0.088372
55	Mn	0.089861
56	Fe	Sensitivity too high
59	Co	0.095016
60	Ni	0.095107
63	Cu	0.097364
65	Cu	0.096966
66	Zn	0.097013
72	Ge	0.095767
75	As	Sensitivity too low
78	Se	Sensitivity too low
89	Y	Sensitivity too low
98	Mo	0.093776
99	(Ru)	Sensitivity too low
107	Ag	0.100408
111	Cd	0.102601
115	In	0.099457
118	(In)	Sensitivity too low
121	Sb	0.097934
137	Ba	0.098656
159	Tb	Sensitivity too low
205	Tl	0.104052
206	(Pb)	0.104511
207	(Pb)	0.104462
208	Pb	0.105028
209	Bi	0.107697

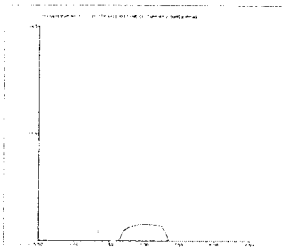
===Detector Parameters===
Discriminator: 8.0 mV
Analog HV: 1930 V
Pulse HV: 1650 V

MET06 QC Tune Report

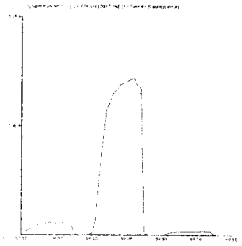
Data File: C:\ICPCHEM\1\DATA\07J23p00.B\001TUNE.D
Date Acquired: Oct 23 2007 03:59 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s7368
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

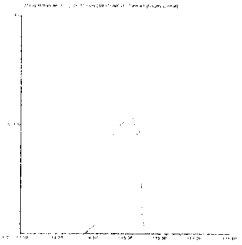
Element	Actual	Required	Flag
7 Li	1.14	5.00	
59 Co	0.99	5.00	
115 In	1.22	5.00	
205 Tl	0.85	5.00	



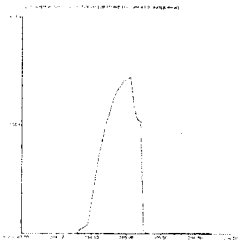
7 Li
Mass Calib.
Actual: 7.05
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 204.95
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:

MET06 Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\07J23p00.B\004CALB.D\004CALB.D#
Date Acquired:	Oct 23 2007 04:16 pm
Acq. Method:	1cj6020.M
Operator:	
Sample Name:	calblank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\1cj6020.M
Calibration File:	C:\ICPCHEM\1\CALIB\1cj6020.C
Last Cal. Update:	Oct 23 2007 04:20 pm
Sample Type:	CalBlk
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ret	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	23.33413	--------	ppb	--------	
23 Na	45	2	10666.54000	--------	ppb	--------	
24 Mg	45	3	28554.82000	--------	ppb	--------	
27 Al	45	3	27300.25000	--------	ppb	--------	
39 K	45	3	1720798.00000	--------	ppb	--------	
44 Ca	45	3	26365.38100	--------	ppb	--------	
51 V	45	2	40.74129	--------	ppb	--------	
52 Cr	45	2	475.19931	--------	ppb	--------	
55 Mn	45	2	22.96325	--------	ppb	--------	
56 Fe	45	1	16702.46100	--------	ppb	--------	
59 Co	45	2	38.88956	--------	ppb	--------	
60 Ni	45	2	467.79260	--------	ppb	--------	
63 Cu	72	2	7196.73490	--------	ppb	--------	
66 Zn	72	2	1094.50000	--------	ppb	--------	
75 As	72	2	4.66670	--------	ppb	--------	
78 Se	72	1	3.33336	--------	ppb	--------	
98 Mo	89	3	264.45691	--------	ppb	--------	
107 Ag	115	3	170.00729	--------	ppb	--------	
111 Cd	115	3	34.44578	--------	ppb	--------	
121 Sb	115	3	291.12720	--------	ppb	--------	
137 Ba	159	3	191.12010	--------	ppb	--------	
205 Tl	209	3	852.28583	--------	ppb	--------	
208 Pb	159	3	2571.31590	--------	ppb	--------	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2423023.50000	1.88	2423024	100.0	80 - 120	
45 Sc	1	960883.56000	2.60	960884	100.0	80 - 120	
45 Sc	2	38909.71900	0.72	38910	100.0	80 - 120	
45 Sc	3	3881716.50000	1.90	3881717	100.0	80 - 120	
72 Ge	1	244833.23000	1.31	244833	100.0	80 - 120	
72 Ge	2	40239.92200	0.66	40240	100.0	80 - 120	
89 Y	3	5736415.50000	1.81	5736416	100.0	80 - 120	
115 In	3	5146406.50000	3.43	5146407	100.0	80 - 120	
159 Tb	3	6411513.50000	1.79	6411514	100.0	80 - 120	
209 Bi	3	3646445.80000	3.16	3646446	100.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : ---

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\07J23p00.B\005CALS.D\005CALS.D#
Date Acquired:	Oct 23 2007 04:22 pm
Acq. Method:	icj6020.M
Operator:	
Sample Name:	s7371
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\icj6020.M
Calibration File:	C:\ICPCHEM\1\CALIB\icj6020.C
Last Cal. Update:	Oct 23 2007 04:21 pm
Sample Type:	CalStd
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	637.81439	--------	ppb	--------	
23 Na	45	2	13627.30000	--------	ppb	--------	
24 Mg	45	3	195058.41000	--------	ppb	--------	
27 Al	45	3	260971.00000	--------	ppb	--------	
39 K	45	3	2041416.00000	--------	ppb	--------	
44 Ca	45	3	37246.35900	--------	ppb	--------	
51 V	45	2	190.74451	--------	ppb	--------	
52 Cr	45	2	985.23138	--------	ppb	--------	
55 Mn	45	2	118.15010	--------	ppb	--------	
56 Fe	45	1	131099.70000	--------	ppb	--------	
59 Co	45	2	539.64722	--------	ppb	--------	
60 Ni	45	2	615.20740	--------	ppb	--------	
63 Cu	72	2	4487.44290	--------	ppb	--------	
66 Zn	72	2	1484.91100	--------	ppb	--------	
75 As	72	2	38.22258	--------	ppb	--------	
78 Se	72	1	48.44493	--------	ppb	--------	
98 Mo	89	3	1427.90910	--------	ppb	--------	
107 Ag	115	3	3751.77490	--------	ppb	--------	
111 Cd	115	3	452.24661	--------	ppb	--------	
121 Sb	115	3	2115.80400	--------	ppb	--------	
137 Ba	159	3	1336.78500	--------	ppb	--------	
205 Tl	209	3	2182.49190	--------	ppb	--------	
208 Pb	159	3	6896.54590	--------	ppb	--------	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2439950.50000	0.81	2423024	100.7	80 - 120	
45 Sc	1	956207.75000	2.59	960884	99.5	80 - 120	
45 Sc	2	39013.75400	2.08	38910	100.3	80 - 120	
45 Sc	3	3811578.30000	1.91	3881717	98.2	80 - 120	
72 Ge	1	243246.86000	1.31	244833	99.4	80 - 120	
72 Ge	2	40381.84400	1.63	40240	100.4	80 - 120	
89 Y	3	5677086.00000	1.78	5736416	99.0	80 - 120	
115 In	3	5073387.00000	1.25	5146407	98.6	80 - 120	
159 Tb	3	6377527.50000	0.53	6411514	99.5	80 - 120	
209 Bi	3	3593204.50000	3.14	3646446	98.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J23p00.B\004CALB.D\004CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\07J23p00.B\006CALS.D\006CALS.D#
Date Acquired:	Oct 23 2007 04:28 pm
Acq. Method:	1cj6020.M
Operator:	
Sample Name:	s7372
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\1cj6020.M
Calibration File:	C:\ICPCHEM\1\CALIB\1cj6020.C
Last Cal. Update:	Oct 23 2007 04:26 pm
Sample Type:	CalStd
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	3080.43600	0.50840	ppb	1.82	
23 Na	45	2	20022.47100	33.00000	ppb	7.28	
24 Mg	45	3	822240.31000	48.07000	ppb	0.49	
27 Al	45	3	1056541.00000	44.44000	ppb	4.59	
39 K	45	3	2892729.00000	35.08000	ppb	1.22	
44 Ca	45	3	67186.64800	36.98000	ppb	0.49	
51 V	45	2	853.36969	0.55180	ppb	4.49	
52 Cr	45	2	2036.46800	0.31390	ppb	4.23	
55 Mn	45	2	400.01089	0.40320	ppb	5.63	
56 Fe	45	1	483467.69000	41.07000	ppb	1.20	
59 Co	45	2	2443.20510	0.48880	ppb	2.87	
60 Ni	45	2	1131.54100	0.46590	ppb	3.37	
63 Cu	72	2	10979.60000	-0.14520	ppb	14.04	
66 Zn	72	2	1522.69400	0.11740	ppb	1.48	
75 As	72	2	133.77950	0.39240	ppb	16.56	
78 Se	72	1	208.89211	0.45790	ppb	4.62	
98 Mo	89	3	5933.74610	0.49220	ppb	1.51	
107 Ag	115	3	9614.88280	0.26340	ppb	2.50	
111 Cd	115	3	2111.36400	0.49590	ppb	5.11	
121 Sb	115	3	7185.50590	0.37670	ppb	2.22	
137 Ba	159	3	3060.47410	0.25350	ppb	1.80	
205 Tl	209	3	7426.87890	0.24810	ppb	1.14	
208 Pb	159	3	22345.18000	0.46230	ppb	1.55	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2389559.00000	0.97	2423024	98.6	80 - 120	
45 Sc	1	949431.56000	2.19	960884	98.8	80 - 120	
45 Sc	2	38347.17600	0.81	38910	98.6	80 - 120	
45 Sc	3	3770676.50000	0.64	3881717	97.1	80 - 120	
72 Ge	1	241931.17000	1.51	244833	98.8	80 - 120	
72 Ge	2	39606.24200	1.32	40240	98.4	80 - 120	
89 Y	3	5607095.50000	0.77	5736416	97.7	80 - 120	
115 In	3	5077261.00000	0.45	5146407	98.7	80 - 120	
159 Tb	3	6300607.00000	1.79	6411514	98.3	80 - 120	
209 Bi	3	3555197.80000	0.84	3646446	97.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J23p00.B\004CALB.D\004CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07J23p00.B\007CALS.D\007CALS.D#
Date Acquired: Oct 23 2007 04:34 pm
Acq. Method: icj6020.M
Operator:
Sample Name: s7373
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\icj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\icj6020.C
Last Cal. Update: Oct 23 2007 04:32 pm
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	5994.76900	0.97160	ppb	1.61	
23 Na	45	2	28892.16000	92.06000	ppb	0.40	
24 Mg	45	3	1622456.00000	99.20000	ppb	1.31	
27 Al	45	3	2062349.00000	97.38000	ppb	3.39	
39 K	45	3	4123082.00000	97.14000	ppb	2.29	
44 Ca	45	3	102823.50000	90.42000	ppb	1.41	
51 V	45	2	1692.34400	1.00100	ppb	0.72	
52 Cr	45	2	4120.64790	1.11500	ppb	4.18	
55 Mn	45	2	806.69989	1.01000	ppb	2.19	
56 Fe	45	1	995030.00000	103.00000	ppb	2.80	
59 Co	45	2	5012.06300	1.01400	ppb	4.69	
60 Ni	45	2	1945.71300	1.07800	ppb	4.77	
63 Cu	72	2	9213.86130	0.30110	ppb	4.58	
66 Zn	72	2	1745.68510	0.63160	ppb	11.97	
75 As	72	2	267.56000	0.98750	ppb	3.13	
78 Se	72	1	448.01031	1.07500	ppb	4.60	
98 Mo	89	3	11313.97000	0.96860	ppb	2.73	
107 Ag	115	3	20530.61900	1.03100	ppb	2.15	
111 Cd	115	3	4080.76610	0.96340	ppb	0.94	
121 Sb	115	3	14195.77000	0.98480	ppb	2.83	
137 Ba	159	3	6026.02490	0.98170	ppb	1.94	
205 Tl	209	3	14636.71000	0.51930	ppb	1.66	
208 Pb	159	3	42816.46100	1.01600	ppb	0.32	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2403266.80000	1.05	2423024	99.2	80 - 120	
45 Sc	1	957575.75000	1.75	960884	99.7	80 - 120	
45 Sc	2	39054.94900	0.81	38910	100.4	80 - 120	
45 Sc	3	3808400.80000	1.24	3881717	98.1	80 - 120	
72 Ge	1	242472.14000	1.12	244833	99.0	80 - 120	
72 Ge	2	40415.97700	0.69	40240	100.4	80 - 120	
89 Y	3	5634438.00000	0.66	5736416	98.2	80 - 120	
115 In	3	5131672.00000	0.54	5146407	99.7	80 - 120	
159 Tb	3	6285818.00000	1.14	6411514	98.0	80 - 120	
209 Bi	3	3580162.50000	0.66	3646446	98.2	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J23p00.B\004CALB.D\004CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\07J23p00.B\008CALS.D\008CALS.D#		
Date Acquired:	Oct 23 2007 04:40 pm		
Acq. Method:	icj6020.M	**Data Results:**	
Operator:		**Analytes:**	**Pass**
Sample Name:	s7374	**ISTD:**	**Pass**
Misc Info:			
Vial Number:	1105		
Current Method:	C:\ICPCHEM\1\METHODS\icj6020.M		
Calibration File:	C:\ICPCHEM\1\CALIB\icj6020.C		
Last Cal. Update:	Oct 23 2007 04:38 pm		
Sample Type:	CalStd		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element	IS Ref	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	61430.89100	10.06000	ppb	0.75	
23 Na	45	2	190120.09000	969.50000	ppb	1.25	
24 Mg	45	3	15529750.00000	970.60000	ppb	1.44	
27 Al	45	3	19794500.00000	965.50000	ppb	1.36	
39 K	45	3	26310230.00000	1005.00000	ppb	1.69	
44 Ca	45	3	805359.88000	991.20000	ppb	1.45	
51 V	45	2	16595.42000	10.02000	ppb	0.77	
52 Cr	45	2	26718.36900	7.36000	ppb	0.66	
55 Mn	45	2	7624.74020	9.72100	ppb	2.43	
56 Fe	45	1	8905768.00000	931.90000	ppb	2.93	
59 Co	45	2	48964.35900	9.86700	ppb	2.01	
60 Ni	45	2	14834.97000	9.88000	ppb	2.17	
63 Cu	72	2	45768.71900	13.13000	ppb	1.45	
66 Zn	72	2	5658.61720	6.30000	ppb	0.18	
75 As	72	2	2554.25100	9.67700	ppb	2.31	
78 Se	72	1	4140.64790	9.61500	ppb	1.64	
98 Mo	89	3	113136.90000	10.17000	ppb	1.07	
107 Ag	115	3	178720.91000	9.04500	ppb	1.47	
111 Cd	115	3	40879.25000	10.27000	ppb	1.96	
121 Sb	115	3	132513.59000	9.71600	ppb	1.88	
137 Ba	159	3	53728.23000	9.16400	ppb	0.80	
205 Tl	209	3	139806.20000	5.19400	ppb	0.67	
208 Pb	159	3	389544.91000	9.66700	ppb	1.79	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2441490.80000	0.76	2423024	100.8	80 - 120	
45 Sc	1	939951.69000	2.76	960884	97.8	80 - 120	
45 Sc	2	39054.25800	1.19	38910	100.4	80 - 120	
45 Sc	3	3808634.50000	1.37	3881717	98.1	80 - 120	
72 Ge	1	238011.44000	0.96	244833	97.2	80 - 120	
72 Ge	2	40410.12900	0.91	40240	100.4	80 - 120	
89 Y	3	5619948.50000	1.44	5736416	98.0	80 - 120	
115 In	3	5006821.50000	1.89	5146407	97.3	80 - 120	
159 Tb	3	6267216.50000	2.89	6411514	97.7	80 - 120	
209 Bi	3	3497966.50000	1.81	3646446	95.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J23p00.B\004CALB.D\004CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07J23p00.B\009CALS.D\009CALS.D#
Date Acquired: Oct 23 2007 04:46 pm
Acq. Method: icj6020.M
Operator:
Sample Name: s7369
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\icj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\icj6020.C
Last Cal. Update: Oct 23 2007 04:44 pm
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	585684.88000	97.19000	ppb	1.47	
23 Na	45	2	1688290.00000	9522.00000	ppb	0.52	
24 Mg	45	3	148377900.00000	9842.00000	ppb	1.58	
27 Al	45	3	189115600.00000	9837.00000	ppb	0.63	
39 K	45	3	233182000.00000	9675.00000	ppb	1.60	
44 Ca	45	3	7201781.00000	9471.00000	ppb	1.65	
51 V	45	2	159882.70000	98.37000	ppb	0.43	
52 Cr	45	2	238844.09000	92.14000	ppb	0.79	
55 Mn	45	2	73039.85200	97.81000	ppb	0.40	
56 Fe	45	1	85852112.00000	9519.00000	ppb	1.21	
59 Co	45	2	465337.41000	96.86000	ppb	0.77	
60 Ni	45	2	135969.50000	96.07000	ppb	0.82	
63 Cu	72	2	393014.69000	103.90000	ppb	1.14	
66 Zn	72	2	41546.80100	91.20000	ppb	1.03	
75 As	72	2	24298.34000	98.53000	ppb	0.40	
78 Se	72	1	39926.78100	97.72000	ppb	1.79	
98 Mo	89	3	1125243.00000	102.90000	ppb	1.67	
107 Ag	115	3	1704636.00000	99.06000	ppb	1.78	
111 Cd	115	3	382098.19000	97.23000	ppb	1.87	
121 Sb	115	3	1254003.00000	98.48000	ppb	1.74	
137 Ba	159	3	505682.41000	96.14000	ppb	0.57	
205 Tl	209	3	1361777.00000	51.22000	ppb	1.40	
208 Pb	159	3	3741906.00000	98.44000	ppb	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2396510.50000	1.84	2423024	98.9	80 - 120	
45 Sc	1	952209.06000	1.27	960884	99.1	80 - 120	
45 Sc	2	38335.21100	1.10	38910	98.5	80 - 120	
45 Sc	3	3702050.80000	1.65	3881717	95.4	80 - 120	
72 Ge	1	234922.91000	1.51	244833	96.0	80 - 120	
72 Ge	2	39061.05900	1.20	40240	97.1	80 - 120	
89 Y	3	5444005.00000	1.42	5736416	94.9	80 - 120	
115 In	3	4818563.50000	2.00	5146407	93.6	80 - 120	
159 Tb	3	6147013.00000	1.28	6411514	95.9	80 - 120	
209 Bi	3	3345829.00000	1.43	3646446	91.8	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J23p00.B\004CALB.D\004CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

MET06 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07J23p00.B\010CALS.D\010CALS.D#
Date Acquired: Oct 23 2007 04:53 pm
Acq. Method: 1cj6020.M
Operator:
Sample Name: s7370
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\1cj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\1cj6020.C
Last Cal. Update: Oct 23 2007 04:51 pm
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ret	Tune	CPS Mean	Raw Conc	Units	RSD(%)	Flag
9 Be	6	3	1179323.00000	202.00000	ppb	0.12	
23 Na	45	2	3369723.00000	20020.00000	ppb	0.30	
24 Mg	45	3	293686690.00000	19800.00000	ppb	1.07	
27 Al	45	3	375437790.00000	19860.00000	ppb	0.80	
39 K	45	3	464140420.00000	19970.00000	ppb	0.93	
44 Ca	45	3	14435410.00000	20070.00000	ppb	0.66	
51 V	45	2	318418.50000	199.30000	ppb	0.78	
52 Cr	45	2	474030.59000	198.60000	ppb	0.64	
55 Mn	45	2	144583.30000	198.10000	ppb	0.21	
56 Fe	45	1	170187600.00000	19710.00000	ppb	2.85	
59 Co	45	2	936065.00000	201.20000	ppb	1.38	
60 Ni	45	2	262882.50000	193.70000	ppb	0.72	
63 Cu	72	2	754284.00000	195.60000	ppb	1.52	
66 Zn	72	2	78005.53900	191.80000	ppb	0.83	
75 As	72	2	47300.43000	196.60000	ppb	0.71	
78 Se	72	1	76612.28900	194.80000	ppb	2.28	
98 Mo	89	3	2200124.00000	195.90000	ppb	0.87	
107 Ag	115	3	3324040.00000	197.80000	ppb	1.58	
111 Cd	115	3	746904.19000	198.20000	ppb	0.97	
121 Sb	115	3	2416466.00000	195.40000	ppb	1.59	
137 Ba	159	3	1012731.00000	201.70000	ppb	0.53	
205 Tl	209	3	2633178.00000	99.27000	ppb	1.00	
208 Pb	159	3	7334516.00000	197.50000	ppb	0.45	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ret Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2387722.50000	1.52	2423024	98.5	80 - 120	
45 Sc	1	957724.13000	3.03	960884	99.7	80 - 120	
45 Sc	2	38309.57000	0.39	38910	98.5	80 - 120	
45 Sc	3	3700555.00000	1.69	3881717	95.3	80 - 120	
72 Ge	1	231433.36000	2.91	244833	94.5	80 - 120	
72 Ge	2	38668.49200	1.00	40240	96.1	80 - 120	
89 Y	3	5434234.00000	1.55	5736416	94.7	80 - 120	
115 In	3	4751021.00000	2.11	5146407	92.3	80 - 120	
159 Tb	3	6101658.50000	0.55	6411514	95.2	80 - 120	
209 Bi	3	3260276.50000	1.92	3646446	89.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07J23p00.B\004CALB.D\004CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET06
Seqnum : 67427199014
Cal : 67427199001
Standards: S7375, S7379

File : j23p0014
Caldate : 23-OCT-2007

IDF : 1.0
Time : 23-OCT-2007 17:31

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	A	0.2771	0.2536	10000	9982	ug/L	0	10	
Antimony	A	0.1464	0.1297	100.0	101.5	ug/L	2	10	
Barium	A	0.0545	0.0408	100.0	98.59	ug/L	-1	10	
Beryllium	A	0.1260	0.1234	100.0	100.2	ug/L	0	10	
Cadmium	A	0.0410	0.0396	100.0	100.5	ug/L	1	10	
Calcium	A	0.0184	0.0099	10000	10100	ug/L	1	10	
Lead	A	0.3586	0.2840	100.0	94.24	ug/L	-6	10	
Magnesium	A	0.2150	0.2005	10000	10080	ug/L	1	10	
Molybdenum	A	0.1062	0.0985	100.0	96.89	ug/L	-3	10	
Potassium	A	0.8268	0.3189	10000	10130	ug/L	1	10	
Silver	A	0.2149	0.1847	100.0	105.3	ug/L	5	10	
Thallium	A	0.4408	0.3897	50.00	48.16	ug/L	-4	10	
Arsenic	E	0.3458	0.3084	100.0	100.5	ug/L	1	10	
Chromium	E	5.4720	3.1147	100.0	100.4	ug/L	0	10	
Cobalt	E	6.3590	6.0276	100.0	98.79	ug/L	-1	10	
Copper	E	18.375	5.0265	100.0	101.7	ug/L	2	10	
Manganese	E	1.0773	0.9447	100.0	99.91	ug/L	0	10	
Nickel	E	3.1198	1.7830	100.0	103.1	ug/L	3	10	
Sodium	E	0.5537	0.2220	10000	10070	ug/L	1	10	
Vanadium	E	2.1874	2.0753	100.0	99.79	ug/L	0	10	
Zinc	E	4.3546	0.5479	100.0	106.5	ug/L	7	10	
Iron	H	0.5140	0.4488	10000	10070	ug/L	1	10	
Selenium	H	0.0889	0.0856	100.0	102.8	ug/L	3	10	

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2423024	2471520	2.00
Scandium	A	3881717	3783051	-2.54
Scandium	E	38910	38262	-1.66
Scandium	H	960884	954472	-0.67
Germanium	H	244833	236756	-3.30
Germanium	E	40240	39728	-1.27
Indium	A	5146407	4873872	-5.30
Bismuth	A	3646446	3378152	-7.36
Yttrium	A	5736416	5505658	-4.02
Terbium	A	6411514	6179872	-3.61

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67427199018 File : j23p0018 Time : 23-OCT-2007 18:03
Cal : 67427199001 Caldate : 23-OCT-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	ND	0.1000	0.0005836	ug/L	
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.003200]	0.1000	0.002857	ug/L	!ib
Magnesium	A	ND	10.00	3.328	ug/L	
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	ND	10.00	7.074	ug/L	
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.007750]	0.1000	0.002285	ug/L	!ib
Chromium	E	[0.01061]	0.1000	0.0001137	ug/L	!ib
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.01028]	0.1000	0.004522	ug/L	!ib
Nickel	E	ND	0.1000	0.001252	ug/L	
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	ND	0.1000	0.01127	ug/L	
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.009431]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2423024	2493731	2.92
Scandium	A	3881717	3856168	-0.66
Scandium	E	38910	39203	0.75
Scandium	H	960884	971519	1.11
Germanium	H	244833	249899	2.07
Germanium	E	40240	40784	1.35
Indium	A	5146407	5145930	-0.01
Bismuth	A	3646446	3608312	-1.05
Yttrium	A	5736416	5705523	-0.54
Terbium	A	6411514	6407393	-0.06

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67427199020 File : j23p0020 Time : 23-OCT-2007 18:14
Cal : 67427199001 Caldate : 23-OCT-2007
Standards: S7377, S7379

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	2.127	0.1000	ug/L	
Barium	A	46.10	0.1000	ug/L	
Beryllium	A	[0.03390]	0.1000	ug/L	
Cadmium	A	1.350	0.1000	ug/L	
Lead	A	0.5983	0.1000	ug/L	
Silver	A	0.2295	0.1000	ug/L	
Thallium	A	[0.04560]	0.05000	ug/L	
Arsenic	E	0.2351	0.1000	ug/L	
Chromium	E	1.558	0.1000	ug/L	
Cobalt	E	0.2151	0.1000	ug/L	
Copper	E	2.903	0.1000	ug/L	
Manganese	E	0.9760	0.1000	ug/L	
Nickel	E	1.481	0.1000	ug/L	
Vanadium	E	[0.07732]	0.1000	ug/L	
Zinc	E	66.07	0.1000	ug/L	
Selenium	H	[0.06936]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	104000	ug/L	104
Calcium	A	300000	328700	ug/L	110
Magnesium	A	100000	101800	ug/L	102
Molybdenum	A	2000	2088	ug/L	104
Potassium	A	100000	106300	ug/L	106
Sodium	E	250000	254600	ug/L	102
Iron	H	250000	235200	ug/L	94

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2423024	1824752	-24.69
Scandium	A	3881717	2924836	-24.65
Scandium	E	38910	39661	1.93
Scandium	H	960884	855547	-10.96
Germanium	H	244833	179541	-26.67
Germanium	E	40240	35789	-11.06
Indium	A	5146407	3501774	-31.96
Bismuth	A	3646446	2171860	-40.44
Yttrium	A	5736416	4166398	-27.37
Terbium	A	6411514	4682357	-26.97

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06
Seqnum : 67427199021
Cal : 67427199001
Standards: S7378, S7379

File : j23p0021
Caldate : 23-OCT-2007

IDF : 1.0
Time : 23-OCT-2007 18:20

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	94840	ug/L	-5		
Cadmium	A	100.0	99.35	ug/L	-1	20	
Calcium	A	300000	306700	ug/L	2		
Magnesium	A	100000	93370	ug/L	-7		
Molybdenum	A	2000	1950	ug/L	-3		
Potassium	A	100000	99800	ug/L	0		
Silver	A	50.00	49.79	ug/L	0	20	
Arsenic	E	100.0	99.89	ug/L	0	20	
Chromium	E	200.0	191.6	ug/L	-4	20	
Cobalt	E	200.0	168.7	ug/L	-16	20	
Copper	E	200.0	177.5	ug/L	-11	20	
Manganese	E	200.0	190.1	ug/L	-5	20	
Nickel	E	200.0	165.3	ug/L	-17	20	
Sodium	E	250000	242200	ug/L	-3		
Vanadium	E	200.0	196.1	ug/L	-2	20	
Zinc	E	100.0	85.96	ug/L	-14	20	
Iron	H	250000	222800	ug/L	-11		
Selenium	H	100.0	99.34	ug/L	-1	20	

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	960884	850843	-11.45
Scandium	A	3881717	2827345	-27.16
Scandium	E	38910	38845	-0.17
Germanium	H	244833	174045	-28.91
Germanium	E	40240	34770	-13.59
Indium	A	5146407	3515920	-31.68
Yttrium	A	5736416	4132801	-27.95

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06
Seqnum : 67427199040
Cal : 67427199001
Standards: S7376, S7379

File : j23p0040
Caldate : 23-OCT-2007

IDF : 1.0
Time : 23-OCT-2007 20:46

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.2771	0.2518	10000	9911	ug/L	-1	10	
Antimony	A	0.1464	0.1321	100.0	103.4	ug/L	3	10	
Barium	A	0.0545	0.0413	100.0	99.74	ug/L	0	10	
Beryllium	A	0.1260	0.1226	100.0	99.47	ug/L	-1	10	
Cadmium	A	0.0410	0.0405	100.0	102.9	ug/L	3	10	
Calcium	A	0.0184	0.0100	10000	10250	ug/L	3	10	
Lead	A	0.3586	0.2924	100.0	97.02	ug/L	-3	10	
Magnesium	A	0.2150	0.1993	10000	10020	ug/L	0	10	
Molybdenum	A	0.1062	0.0990	100.0	97.42	ug/L	-3	10	
Potassium	A	0.8268	0.3228	10000	10260	ug/L	3	10	
Silver	A	0.2149	0.1864	100.0	106.3	ug/L	6	10	
Thallium	A	0.4408	0.3971	50.00	49.07	ug/L	-2	10	
Arsenic	E	0.3458	0.3143	100.0	102.4	ug/L	2	10	
Chromium	E	5.4720	3.2023	100.0	103.3	ug/L	3	10	
Cobalt	E	6.3590	6.2218	100.0	102.0	ug/L	2	10	
Copper	E	18.375	5.2084	100.0	105.5	ug/L	6	10	
Manganese	E	1.0773	0.9569	100.0	101.2	ug/L	1	10	
Nickel	E	3.1198	1.8357	100.0	106.1	ug/L	6	10	
Sodium	E	0.5537	0.2294	10000	10410	ug/L	4	10	
Vanadium	E	2.1874	2.1213	100.0	102.0	ug/L	2	10	
Zinc	E	4.3546	0.5602	100.0	108.9	ug/L	9	10	
Iron	H	0.5140	0.4570	10000	10250	ug/L	3	10	
Selenium	H	0.0889	0.0883	100.0	106.1	ug/L	6	10	

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2423024	2448991	1.07
Scandium	A	3881717	3618621	-6.78
Scandium	E	38910	37924	-2.53
Scandium	H	960884	950440	-1.09
Germanium	H	244833	227140	-7.23
Germanium	E	40240	38852	-3.45
Indium	A	5146407	4818812	-6.37
Bismuth	A	3646446	3409114	-6.51
Yttrium	A	5736416	5430074	-5.34
Terbium	A	6411514	6216311	-3.04

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06
Seqnum : 67427199042
Cal : 67427199001
File : j23p0042
Caldate : 23-OCT-2007
IDF : 1.0
Time : 23-OCT-2007 21:01

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.01440]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.02484]	0.1000	0.002857	ug/L	!ib
Magnesium	A	ND	10.00	3.328	ug/L	
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	ND	10.00	7.074	ug/L	
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.03547]	0.1000	0.002285	ug/L	!ib
Chromium	E	ND	0.1000	0.0001137	ug/L	
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.02683]	0.1000	0.004522	ug/L	!ib
Nickel	E	ND	0.1000	0.001252	ug/L	
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	0.1905	0.1000	0.01127	ug/L	ib ***
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.03414]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2423024	2444887	0.90
Scandium	A	3881717	3671619	-5.41
Scandium	E	38910	38476	-1.11
Scandium	H	960884	951302	-1.00
Germanium	H	244833	236506	-3.40
Germanium	E	40240	40625	0.96
Indium	A	5146407	5060938	-1.66
Bismuth	A	3646446	3650273	0.10
Yttrium	A	5736416	5616143	-2.10
Terbium	A	6411514	6436681	0.39

!=warning ib=instrument blank

67427199042

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06
Seqnum : 67427199055
Cal : 67427199001
Standards: S7376, S7379

File : j23p0055
Caldate : 23-OCT-2007

IDF : 1.0
Time : 23-OCT-2007 22:29

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.2771	0.2524	10000	9935	ug/L	-1	10	
Antimony	A	0.1464	0.1319	100.0	103.2	ug/L	3	10	
Barium	A	0.0545	0.0415	100.0	100.0	ug/L	0	10	
Beryllium	A	0.1260	0.1246	100.0	101.1	ug/L	1	10	
Cadmium	A	0.0410	0.0407	100.0	103.3	ug/L	3	10	
Calcium	A	0.0184	0.0099	10000	10190	ug/L	2	10	
Lead	A	0.3586	0.2907	100.0	96.47	ug/L	-4	10	
Magnesium	A	0.2150	0.1991	10000	10010	ug/L	0	10	
Molybdenum	A	0.1062	0.0994	100.0	97.77	ug/L	-2	10	
Potassium	A	0.8268	0.3217	10000	10220	ug/L	2	10	
Silver	A	0.2149	0.1861	100.0	106.1	ug/L	6	10	
Thallium	A	0.4408	0.3898	50.00	48.16	ug/L	-4	10	
Arsenic	E	0.3458	0.3128	100.0	101.9	ug/L	2	10	
Chromium	E	5.4720	3.1713	100.0	102.3	ug/L	2	10	
Cobalt	E	6.3590	6.1735	100.0	101.2	ug/L	1	10	
Copper	E	18.375	5.1234	100.0	103.7	ug/L	4	10	
Manganese	E	1.0773	0.9475	100.0	100.2	ug/L	0	10	
Nickel	E	3.1198	1.8084	100.0	104.6	ug/L	5	10	
Sodium	E	0.5537	0.2232	10000	10120	ug/L	1	10	
Vanadium	E	2.1874	2.1135	100.0	101.6	ug/L	2	10	
Zinc	E	4.3546	0.5561	100.0	108.1	ug/L	8	10	
Iron	H	0.5140	0.4524	10000	10150	ug/L	2	10	
Selenium	H	0.0889	0.0860	100.0	103.3	ug/L	3	10	

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2423024	2405512	-0.72
Scandium	A	3881717	3647701	-6.03
Scandium	E	38910	36941	-5.06
Scandium	H	960884	925742	-3.66
Germanium	H	244833	228657	-6.61
Germanium	E	40240	38238	-4.97
Indium	A	5146407	4923644	-4.33
Bismuth	A	3646446	3527493	-3.26
Yttrium	A	5736416	5565791	-2.97
Terbium	A	6411514	6411697	0.00

67427199055

00317

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06
Seqnum : 67427199057 File : j23p0057 IDF : 1.0
Cal : 67427199001 Caldate : 23-OCT-2007 Time : 23-OCT-2007 22:43

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	11.04	ug/L	
Antimony	A	ND	0.1000	0	ug/L	
Barium	A	ND	0.1000	0	ug/L	
Beryllium	A	ND	0.1000	0	ug/L	
Cadmium	A	[0.04604]	0.1000	0.0005836	ug/L	!ib
Calcium	A	ND	10.00	0	ug/L	
Lead	A	[0.05471]	0.1000	0.002857	ug/L	!ib
Magnesium	A	[4.450]	10.00	3.328	ug/L	!ib
Molybdenum	A	ND	0.1000	0.07293	ug/L	
Potassium	A	ND	10.00	7.074	ug/L	
Silver	A	ND	0.1000	0	ug/L	
Thallium	A	ND	0.05000	0	ug/L	
Arsenic	E	[0.03745]	0.1000	0.002285	ug/L	!ib
Chromium	E	ND	0.1000	0.0001137	ug/L	
Cobalt	E	ND	0.1000	0	ug/L	
Copper	E	ND	0.1000	0.1296	ug/L	
Manganese	E	[0.04864]	0.1000	0.004522	ug/L	!ib
Nickel	E	ND	0.1000	0.001252	ug/L	
Sodium	E	ND	10.00	7.900	ug/L	
Vanadium	E	ND	0.1000	0	ug/L	
Zinc	E	0.1730	0.1000	0.01127	ug/L	ib ***
Iron	H	ND	10.00	4.329	ug/L	
Selenium	H	[0.04320]	0.1000	0.004672	ug/L	!ib

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2423024	2463418	1.67
Scandium	A	3881717	3777440	-2.69
Scandium	E	38910	37375	-3.94
Scandium	H	960884	918141	-4.45
Germanium	H	244833	233845	-4.49
Germanium	E	40240	39679	-1.39
Indium	A	5146407	5249212	2.00
Bismuth	A	3646446	3807805	4.43
Yttrium	A	5736416	5776574	0.70
Terbium	A	6411514	6620031	3.25

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 67427199060 File : j23p0060 Time : 23-OCT-2007 23:01
Cal : 67427199001 Caldate : 23-OCT-2007
Standards: S7377, S7379

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	2.168	0.1000	ug/L	
Barium	A	47.17	0.1000	ug/L	
Beryllium	A	[0.03980]	0.1000	ug/L	
Cadmium	A	1.382	0.1000	ug/L	
Lead	A	0.6277	0.1000	ug/L	
Silver	A	0.2305	0.1000	ug/L	
Thallium	A	0.05303	0.05000	ug/L	
Arsenic	E	0.2225	0.1000	ug/L	
Chromium	E	1.533	0.1000	ug/L	
Cobalt	E	0.2241	0.1000	ug/L	
Copper	E	2.943	0.1000	ug/L	
Manganese	E	1.074	0.1000	ug/L	
Nickel	E	1.536	0.1000	ug/L	
Vanadium	E	[0.08592]	0.1000	ug/L	
Zinc	E	65.27	0.1000	ug/L	
Selenium	H	[0.07612]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	101900	ug/L	102
Calcium	A	300000	331100	ug/L	110
Magnesium	A	100000	100300	ug/L	100
Molybdenum	A	2000	2083	ug/L	104
Potassium	A	100000	106900	ug/L	107
Sodium	E	250000	248300	ug/L	99
Iron	H	250000	239600	ug/L	96

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	2423024	1705637	-29.61
Scandium	A	3881717	2752102	-29.10
Scandium	E	38910	37806	-2.84
Scandium	H	960884	800351	-16.71
Germanium	H	244833	167922	-31.41
Germanium	E	40240	34554	-14.13
Indium	A	5146407	3521448	-31.57
Bismuth	A	3646446	2240450	-38.56
Yttrium	A	5736416	4138436	-27.86
Terbium	A	6411514	4738898	-26.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06
Seqnum : 67427199061
Cal : 67427199001
Standards: S7378, S7379

File : j23p0061
Caldate : 23-OCT-2007

IDF : 1.0
Time : 23-OCT-2007 23:07

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	92530	ug/L	-7		
Cadmium	A	100.0	100.5	ug/L	1	20	
Calcium	A	300000	307500	ug/L	3		
Magnesium	A	100000	91030	ug/L	-9		
Molybdenum	A	2000	1952	ug/L	-2		
Potassium	A	100000	99030	ug/L	-1		
Silver	A	50.00	50.04	ug/L	0	20	
Arsenic	E	100.0	98.56	ug/L	-1	20	
Chromium	E	200.0	197.4	ug/L	-1	20	
Cobalt	E	200.0	176.2	ug/L	-12	20	
Copper	E	200.0	178.5	ug/L	-11	20	
Manganese	E	200.0	191.1	ug/L	-4	20	
Nickel	E	200.0	173.0	ug/L	-14	20	
Sodium	E	250000	239400	ug/L	-4		
Vanadium	E	200.0	201.0	ug/L	1	20	
Zinc	E	100.0	85.21	ug/L	-15	20	
Iron	H	250000	225200	ug/L	-10		
Selenium	H	100.0	101.0	ug/L	1	20	

ISTD (ICALBLK j23p0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	960884	789888	-17.80
Scandium	A	3881717	2607828	-32.82
Scandium	E	38910	35217	-9.49
Germanium	H	244833	163339	-33.29
Germanium	E	40240	32948	-18.12
Indium	A	5146407	3446919	-33.02
Yttrium	A	5736416	3996758	-30.33

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 67427199

Date : 10/23/07
Sequence : MET06 j23p0

Reference : j23p0004
Analyzed : 10/23/07 16:19

#	Type	Sample ID	LI A	SC A	SC E	SC H	GE H	GE E	IN A	BI A	Y A	TB A
		IB+ICALBLK STD	2423024	3881717	38910	960884	244833	40240	5146407	3646446	5736416	6411514
		LOWER LIMIT	726907	1164515	11673	288265	73450	12072	1543922	1093934	1720925	1923454
		UPPER LIMIT	2907629	4658060	46692	1153060	293800	48288	6175688	4375735	6883699	7693817
018	ICB		2493731	3856168	39203	971519	249899	40784	5145930	3608312	5705523	6407393
020	ICSA		1824752	2924836	39661	855547	179541	35789	3501774	2171860	4166398	4682357
021	ICSAB		1738240	2827345	38845	850843	174045	34770	3515920	2223908	4132801	4749711
026	BLANK	QC411177	2464298	3460300	35968	928815	220019	38073	4949934	3787518	5391867	6447946
034	BS	QC411178	2519710	3693855	39217	982729	234126	40403	4955724	3562025	5560415	6323602
035	BSD	QC411179	2550250	3716648	39507	974834	232057	40489	4987601	3567826	5522948	6351828
037	MSS	198453-002	2524378	3898634	40957	1007941	225827	40163	4829179	3448774	5949176	6302606
040	CCV		2448991	3618621	37924	950440	227140	38852	4818812	3409114	5430074	6216311
042	CCB		2444887	3671619	38476	951302	236506	40625	5060938	3650273	5616143	6436681
045	SER	QC411182	2481307	3800440	39328	963383	236819	40740	5098271	3617825	5766348	6444759
046	MS	QC411180	2321276	3686660	38443	964524	216561	37850	4740417	3417719	5827081	6234558
047	MSD	QC411181	2346578	3761646	38220	936700	212523	37319	4764969	3426415	5875160	6217036
048	PDS	QC411183	2351878	3780598	38663	932482	212447	38034	4702555	3303890	5859987	6203091
049	SAMPLE	198380-001	2365776	3693022	38307	943410	220992	39130	4835276	3471413	6201262	6251973
051	SAMPLE	198444-005	2458059	3699826	37650	927237	229644	38894	4996291	3599443	5643653	6372666
055	CCV		2405512	3647701	36941	925742	228657	38238	4923644	3527493	5565791	6411697
057	CCB		2463418	3777440	37375	918141	233845	39679	5249212	3807805	5776574	6620031
060	ICSA		1705637	2752102	37806	800351	167922	34554	3521448	2240450	4138436	4738898
061	ICSAB		1609805	2607828	35217	789888	163339	32948	3446919	2244779	3996758	4692555

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 67427199 Instrument: MET06 Agilent ICP-MS MET06 Begun: 23-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	j23p0001	TUN				23-OCT-2007 15:59	1.0	1.0		1	
002	j23p0002	X	RINSE			23-OCT-2007 16:07	1.0			2	
003	j23p0003	X	RINSE			23-OCT-2007 16:13	1.0			2	
004	j23p0004	ICALBLK	CALBLANK			23-OCT-2007 16:19	1.0	1.0		2	
005	j23p0005	ICAL				23-OCT-2007 16:24	1.0	1.0		3 2	
006	j23p0006	ICAL				23-OCT-2007 16:30	1.0	1.0		4 2	
007	j23p0007	ICAL				23-OCT-2007 16:36	1.0	1.0		5 2	
008	j23p0008	ICAL				23-OCT-2007 16:42	1.0	1.0		6 2	
009	j23p0009	ICAL				23-OCT-2007 16:48	1.0	1.0		7 2	
010	j23p0010	ICAL				23-OCT-2007 16:55	1.0	1.0		8 2	
011	j23p0011	X	RINSE			23-OCT-2007 17:04	1.0			2	
012	j23p0012	X				23-OCT-2007 17:09	1.0			9 2	
013	j23p0013	X				23-OCT-2007 17:17	1.0			9 2	
014	j23p0014	ICV				23-OCT-2007 17:31	1.0	1.0	1	9 2	
015	j23p0015	X				23-OCT-2007 17:42	1.0			9 2	
016	j23p0016	X	RINSE			23-OCT-2007 17:51	1.0			2	
017	j23p0017	X				23-OCT-2007 17:57	1.0			2	
018	j23p0018	ICB				23-OCT-2007 18:03	1.0	1.0	1	2	
019	j23p0019	X				23-OCT-2007 18:09	1.0			2	
020	j23p0020	ICSA				23-OCT-2007 18:14	1.0	1.0	1	10 2	7:CA=328700
021	j23p0021	ICSAB				23-OCT-2007 18:20	1.0	1.0	1	11 2	7:CA=306700
022	j23p0022	X	RINSE			23-OCT-2007 18:27	1.0			2	
023	j23p0023	X	RINSE			23-OCT-2007 18:32	1.0			2	
024	j23p0024	X	RINSE			23-OCT-2007 18:38	1.0			2	
025	j23p0025	X	RINSE			23-OCT-2007 18:49	1.0			2	
026	j23p0026	BLANK	QC411177	130692	Soil	23-OCT-2007 18:55	5.0	50.0	1	2	
027	j23p0027	IS ERRO	SI ERROR	130692	Soil	23-OCT-2007 19:01	10.0	1.0	1	2	
28	j23p0028	XBSD	SI ERROR	130692	Soil	23-OCT-2007 19:14	10.0			2	
29	j23p0029	X	RINSE			23-OCT-2007 19:25	1.0			2	
30	j23p0030	XMSS	SI ERROR	130692	Soil	23-OCT-2007 19:31	10.0			2	
31	j23p0031	XSER	SI ERROR	130692	Soil	23-OCT-2007 19:37	50.0			2	

Stds used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S7376 13=S6222 14=S6223

Analyst: _____ Date: _____

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 67427199 Instrument: MET06 Agilent ICP-MS MET06 Begun: 23-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	j23p0032	X	RINSE			23-OCT-2007 19:50	1.0					2	
033	j23p0033	X	RINSE			23-OCT-2007 19:56	1.0					2	
034	j23p0034	BS	QC411178	130692	Soil	23-OCT-2007 20:02	10.0	50.0			1	2	
035	j23p0035	BSD	QC411179	130692	Soil	23-OCT-2007 20:12	10.0	50.0			1	2	
036	j23p0036	X	RINSE			23-OCT-2007 20:23	1.0					2	
037	j23p0037	MSS	198453-002	130692	Soil	23-OCT-2007 20:28	10.0	49.50	2		1	2	2:FE=30140.0
038	j23p0038	X	RINSE			23-OCT-2007 20:34	1.0					2	
039	j23p0039	X	RINSE			23-OCT-2007 20:40	1.0					2	
040	j23p0040	CCV				23-OCT-2007 20:46	1.0	1.0			1	12 2	
041	j23p0041	X	RINSE			23-OCT-2007 20:55	1.0					2	
042	j23p0042	CCB				23-OCT-2007 21:01	1.0	1.0	1		1	2	
043	j23p0043	X				23-OCT-2007 21:07	1.0					2	
044	j23p0044	X				23-OCT-2007 21:13	1.0					2	
045	j23p0045	SER	QC411182	130692	Soil	23-OCT-2007 21:18	50.0	49.50		1	1	2	
046	j23p0046	MS	QC411180	130692	Soil	23-OCT-2007 21:24	10.0	48.08	2		1	2	4:FE=33230.0
047	j23p0047	MSD	QC411181	130692	Soil	23-OCT-2007 21:34	10.0	50.0	2		1	2	5:FE=35510.0
048	j23p0048	PDS	QC411183	130692	Soil	23-OCT-2007 21:45	10.0	49.50	2		1	13 14 2	4:FE=39470.(
049	j23p0049	SAMPLE	198380-001	130692	Soil	23-OCT-2007 21:54	10.0	48.54			1	2	2:FE=60920.0
050	j23p0050	X	RINSE			23-OCT-2007 22:00	1.0					2	
051	j23p0051	SAMPLE	198444-005	130693	Soil	23-OCT-2007 22:06	100.0	46.30			1	2	
052	j23p0052	X	RINSE			23-OCT-2007 22:12	1.0					2	
053	j23p0053	X	RINSE			23-OCT-2007 22:18	1.0					2	
054	j23p0054	X	RINSE			23-OCT-2007 22:24	1.0					2	
055	j23p0055	CCV				23-OCT-2007 22:29	1.0	1.0			1	12 2	
056	j23p0056	X	RINSE			23-OCT-2007 22:37	1.0					2	
057	j23p0057	CCB				23-OCT-2007 22:43	1.0	1.0	1		1	2	
058	j23p0058	X				23-OCT-2007 22:49	1.0					2	
059	j23p0059	X				23-OCT-2007 22:55	1.0					2	
060	j23p0060	ICSA				23-OCT-2007 23:01	1.0	1.0			1	10 2	7:CA=331100
061	j23p0061	ICSAB				23-OCT-2007 23:07	1.0	1.0			1	11 2	8:CA=307500
062	j23p0062	X	RINSE			23-OCT-2007 23:13	1.0					2	

tds used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S7376 13=S6222 14=S6223

nalyst: _____ Date: 10/24/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 67427199 Instrument: MET06 Agilent ICP-MS MET06 Begun: 23-OCT-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	j23p0063	X	RINSE			23-OCT-2007 23:19	1.0			2	
064	j23p0064	X	RINSE			23-OCT-2007 23:25	1.0			2	
065	j23p0065	X	RINSE			23-OCT-2007 23:31	1.0			2	

Stds used: 1=S7368 2=S7379 3=S7371 4=S7372 5=S7373 6=S7374 7=S7369 8=S7370 9=S7375 10=S7377 11=S7378 12=S7376 13=S6222 14=S6223

Analyst: _____ Date: 10/24/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198380 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
198380-001	MET09	10/19/07 10:38	1.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
198380-001	MET04	10/22/07 16:27	1.0																	
198380-001	MET04	10/22/07 17:08	10.0										+							
198380-001	MET06	10/23/07 21:54	10.0													+				
198380-002	MET04	10/17/07 14:09	1.0																	
198380-002	MET04	10/17/07 14:26	5.0										+							
198380-002	MET06	10/20/07 20:51	100.0			+														
198380-002	MET06	10/21/07 02:26	10.0		+		+	+	+	+	+			+	+	+	+		+	+
198380-002	MET16	10/22/07 15:50	10.0	+								+						+		
QC410866	MET04	10/17/07 13:08	1.0										+							
QC410867	MET04	10/17/07 13:11	1.0										+							
QC410868	MET04	10/17/07 13:13	1.0										+							
QC410869	MET04	10/17/07 13:17	5.0										+							
QC410870	MET04	10/17/07 13:19	1.0										+							
QC410871	MET04	10/17/07 13:21	1.0										+							
QC411177	MET09	10/19/07 09:52	1.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
QC411177	MET06	10/23/07 18:55	5.0													+				
QC411178	MET09	10/19/07 09:56	1.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
QC411178	MET06	10/23/07 20:02	10.0													+				
QC411179	MET09	10/19/07 09:58	1.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
QC411179	MET06	10/23/07 20:12	10.0													+				
QC411180	MET09	10/19/07 10:02	1.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
QC411180	MET06	10/23/07 21:24	10.0													+				
QC411181	MET09	10/19/07 10:04	1.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
QC411181	MET06	10/23/07 21:34	10.0													+				
QC411182	MET09	10/19/07 10:06	5.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
QC411182	MET06	10/23/07 21:18	50.0													+				
QC411183	MET09	10/19/07 10:41	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC411183	MET06	10/23/07 21:45	10.0																	
QC411394	MET06	10/20/07 20:07	5.0	+	+	+	+	+	+	+	+				+	+	+	+	+	+
QC411394	MET16	10/22/07 15:24	5.0									+		+						
QC411395	MET06	10/20/07 20:13	10.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198380 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
QC411395	MET16	10/22/07 15:30	10.0									+								
QC411396	MET06	10/20/07 20:19	10.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+
QC411396	MET16	10/22/07 15:37	10.0									+								
QC411397	MET06	10/20/07 21:58	100.0			+														
QC411397	MET06	10/21/07 02:38	10.0		+		+	+	+	+	+			+	+	+	+		+	+
QC411397	MET16	10/22/07 16:02	10.0	+								+						+		
QC411398	MET06	10/20/07 22:04	100.0			+														
QC411398	MET06	10/21/07 02:44	10.0		+		+	+	+	+	+			+	+	+	+		+	+
QC411398	MET16	10/22/07 16:09	10.0	+								+						+		
QC411399	MET06	10/20/07 20:57	500.0			+														
QC411399	MET06	10/21/07 02:32	50.0		+		+	+	+	+	+			+	+	+	+		+	+
QC411399	MET16	10/22/07 15:56	50.0	+								+						+		
QC411400	MET06	10/20/07 22:09	100.0		+	+	+	+	+	+	+			+	+	+	+	+	+	+
QC411400	MET06	10/21/07 02:51	10.0																	
QC411400	MET16	10/22/07 16:16	10.0	+								+								
QC411545	MET04	10/22/07 16:01	1.0										+							
QC411546	MET04	10/22/07 16:03	1.0										+							
QC411547	MET04	10/22/07 16:05	1.0										+							
QC411548	MET04	10/22/07 16:09	5.0										+							
QC411549	MET04	10/22/07 16:11	1.0										+							
QC411550	MET04	10/22/07 16:14	1.0										+							

Curtis & Tompkins Laboratories Sample Preparation Summary 18-OCT-2007 17:53

Batch Number : 130692
Date Extracted: 18-OCT-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198380-001			Mactec, Inc.	Soil	1.03	g	50	48.543689	1					T26/ICP		
198453-002			Shaw E&I	Soil	1.01	g	50	49.504950	1					AS, CR, K, SE		
198453-008			Shaw E&I	Soil	1.05	g	50	47.619048	1					AS, CR, K, SE		
198468-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198491-001			Weiss Associates	Soil	1.11	g	50	45.045045	1					T26/ICP		
198491-002			Weiss Associates	Soil	1.05	g	50	47.619048	1					T26/ICP		
198492-001			Baseline Environmental	Soil	1.06	g	50	47.169811	1					AS, PB, SB		
198492-002			Baseline Environmental	Soil	1.02	g	50	49.019608	1					AS, PB, SB		
198492-003			Baseline Environmental	Soil	1.03	g	50	48.543689	1					AS, PB, SB		
198492-004			Baseline Environmental	Soil	1.04	g	50	48.076923	1					AS, PB, SB		
198492-005			Baseline Environmental	Soil	1.01	g	50	49.504950	1					AS, PB, SB		
198495-001			ConocoPhillips Company	Miscell.	1.12	g	50	44.642857	1					V		
198511-004			IHI Environmental	Soil	1.05	g	50	47.619048	1					T26/ICP		
198511-005			IHI Environmental	Soil	1.1	g	50	45.454545	1					T26/ICP		
198511-006			IHI Environmental	Soil	1.12	g	50	44.642857	1					T26/ICP		
198514-001			AEW Engineering, Inc.	Soil	1.1	g	50	45.454545	1					PB		
QC411177	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC411178	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC411179	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC411180	MS	of 198453-002		Soil	1.04	g	50	48.076923	1		.5	.5		ICAP		
QC411181	MSD	of 198453-002		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC411182	SER	of 198453-002		Soil	1.01	g	50	49.504950	1					ICAP		
QC411183	PDS	of 198453-002		Soil	1.01	g	50	49.504950	1					ICAP		

Prep Chemist: Michael C Brock III 10/18/07 Reviewed By: _____ Date: 10/19/07

Relinquished By: Michael C Brock III 10/18/07 Received By: _____ Date: 10/19/07

12559

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: ~~130654~~ 130692 MCB III
Date Digested: 10/18/07
Digested by: MCB III

Digestion Method
☒ EPA 3050b
☐ _____

BK 2584
Page 73

	Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLANK	Ø	50	Y	
	BS	↓	↓	↓	
	BSD	↓	↓	↓	
	MS-453-002 D	1.04			
5	MSD-453-002	1.00			
	198453-002	1.01			
	↓ -008	1.05			
	198380-001 A	1.03			
	198468-001	1.11			
10	198511-004	1.05			
	-005	1.10			
	-006	1.12			
	198492-001	1.06			
	-002	1.02			
15	-003	1.03			
	-004	1.04			
	-005	1.01			
	198491-001 (049-1) A	1.11			
	-002 (045-5)	1.05			
20	198495-001 A,B,C	1.12			198495-001 IS A COMP OF 3, ABC 2GEA
	198514-001 (626-VII) A	1.10			

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95° C	MCB III 10/18/07
.5 mL of spike solution was added to all spikes	S6918	
	S6919	
1:1 HNO3	E17044 J.T.BAKER	
concentrated HNO3	E22071	
3mL 30% hydrogen peroxide	E26A05	
concentrated HCl	E32036	
☒ filtered thru' Whatman # 541	G-1910096	
Relinquished to ICP group		

Michael Crockett 10/18/07

Continued from page ____
Continued on page /

10/19/07

Curtis & Tompkins Laboratories Sample Preparation Summary 19-OCT-2007 19:21

Batch Number : 130746
Date Extracted: 19-OCT-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6470
Spike #2 ID : S6471
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198380-002			Mactec, Inc.	Soil	1	g	50	50.000000	1				T26/ICP		
QC411394	BLANK			Soil	1	g	50	50.000000	1				ICAP		
QC411395	BS			Soil	1	g	50	50.000000	1	.25	.25		ICAP		
QC411396	BSD			Soil	1	g	50	50.000000	1	.25	.25		ICAP		
QC411397	MS	of 198380-002		Soil	1	g	50	50.000000	1	.25	.25		ICAP		
QC411398	MSD	of 198380-002		Soil	1.09	g	50	45.871560	1	.25	.25		ICAP		
QC411399	SER	of 198380-002		Soil	1	g	50	50.000000	1				ICAP		
QC411400	PDS	of 198380-002		Soil	1	g	50	50.000000	1				ICAP		

Prep Chemist: Michael C Brock II 10/19/07 Reviewed By: _____ Date: 10/20/07

Relinquished By: Michael C Brock II 10/19/07 Received By: _____ Date: 10/20/07

SDG 25559

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

7,00 RM

LIMS Batch #: 130746
Date Digested: 10/19/07
Digested by: MCB III

Digestion Method
☒ EPA 3050b
☐ _____

BK 2584
Page 79

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	8	50	Y	
BS	↓	↓	↓	
BSD	↓	↓	↓	
MS-380-002 A	1.00			
MSD-380-002	1.09			
198380-002	1.00			

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	MCB☒ 10/19/07
.25 mL of spike solution was added to all spikes	S6470	
	S6471	
1:1 HNO3	=17044 J.T.BAKER	
concentrated HNO3	=22071	
3mL 30% hydrogen peroxide	=26A05	
concentrated HCl	=32036	
☒ filtered thru' Whatman # 541	G1910096	
Relinquished to ICP group		

Michael C Brock☒ 10/19/07
Extraction Chemist / Date

Continued from page _____
Continued on page 1

10/20/07
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET04
alnum : 47418367001
nits : ug/L

Date : 17-OCT-2007 12:47
X Axis : R

Reviewer : ---
Type : SOIL

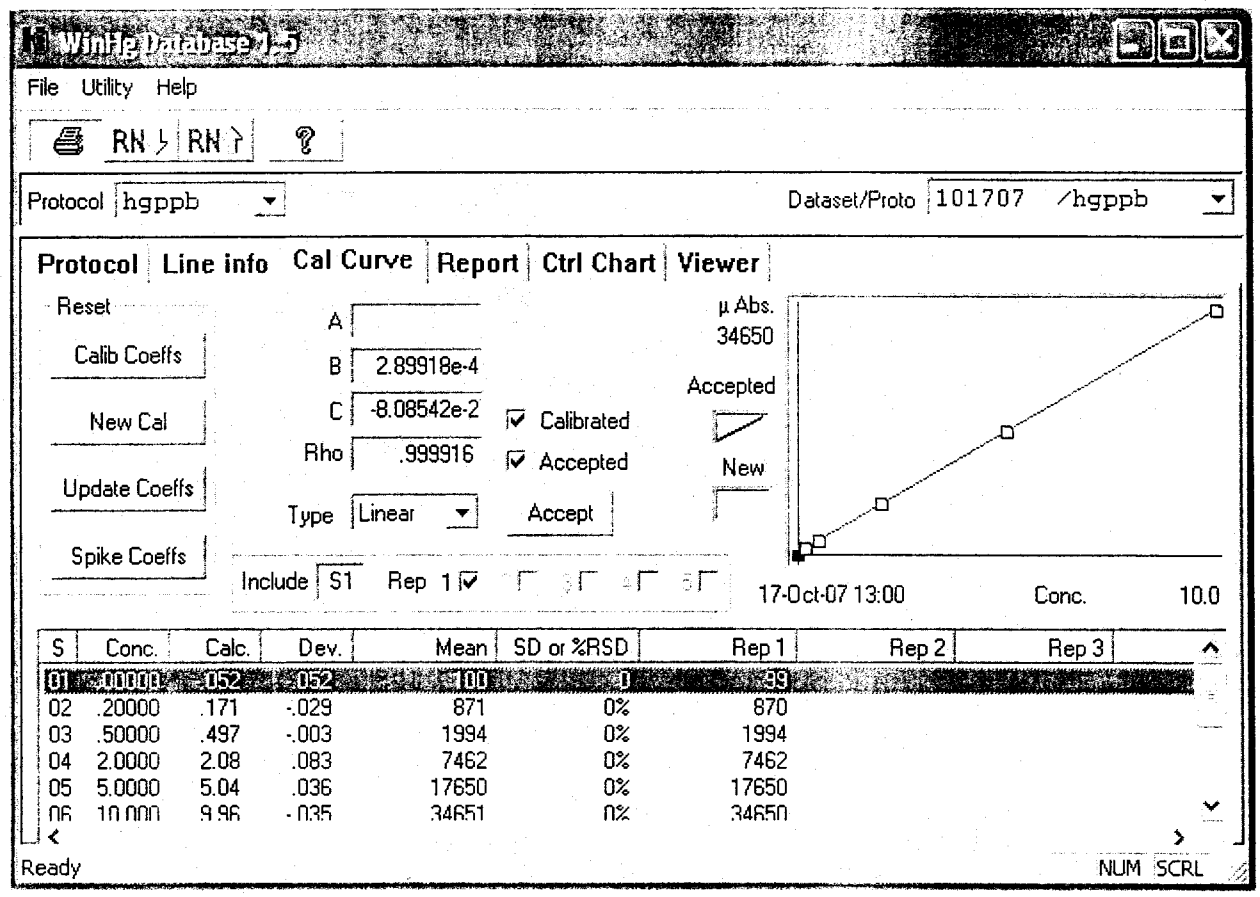
evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	130619	47418367002	STD02REP1	17-OCT-2007 12:49	S7465 (500X)
L2	130619	47418367003	STD03REP1	17-OCT-2007 12:51	S7465 (200X)
L3	130619	47418367004	STD04REP1	17-OCT-2007 12:53	S7465 (50X)
L4	130619	47418367005	STD05REP1	17-OCT-2007 12:55	S7465 (20X)
L5	130619	47418367006	STD06REP1	17-OCT-2007 12:57	S7465 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ercury	4350.0	3988.0	3731.0	3530.0	3465.0	LINR	-0.0809	2.90E-4		3812.8	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
ercury	0.200	-14	0.500	-1	2.000	4	5.000	1	10.00	0

strument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

47418367001


WinHg Database 7.5
File Utility Help
Protocol hgppb
Dataset/Proto 101707 /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 2.89918e-4
C -8.08542e-2
Rho .999916
Calibrated
Accepted
Type Linear
Accept
Include S1 Rep 1
µ Abs.
34650
Accepted
New
17-Oct-07 13:00
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 .052 .052 100 0 99
02 .20000 .171 -.029 871 0% 870
03 .50000 .497 -.003 1994 0% 1994
04 2.0000 2.08 .083 7462 0% 7462
05 5.0000 5.04 .036 17650 0% 17650
06 10.000 9.96 -.035 34651 0% 34650
Ready
NUM SCRL

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		12:47:07 17 Oct 07		HG	
Hg	.000	ppb	99						
		Bkgd 1	16285597						= =
*** Standard: 2 Rep: 1				Seq: 2		12:49:11 17 Oct 07		HG	
Hg	.200	ppb	870						
		Bkgd 1	16287040						= =
*** Standard: 3 Rep: 1				Seq: 3		12:51:17 17 Oct 07		HG	
Hg	.500	ppb	1994						
		Bkgd 1	16288333						= =
*** Standard: 4 Rep: 1				Seq: 4		12:53:21 17 Oct 07		HG	
Hg	2.00	ppb	7462						
		Bkgd 1	16284855						= =
*** Standard: 5 Rep: 1				Seq: 5		12:55:25 17 Oct 07		HG	
Hg	5.00	ppb	17650						
		Bkgd 1	16277877						= =
*** Standard: 6 Rep: 1				Seq: 6		12:57:44 17 Oct 07		HG	
Hg	10.0	ppb	34650						
		Bkgd 1	16268993						= =
*** Check Standard: 2			Ck2s7467	Seq: 7		13:04:15 17 Oct 07		HG	
Line	Flag		Intensities						
Hg			18261						
		Bkgd 1	16272852						= =
*** Check Standard: 1			Ck1ICB	Seq: 8		13:06:19 17 Oct 07		HG	
Line	Flag		Intensities						
Hg			41						
		Bkgd 1	16266911						= =
*** Sample ID: qc410866				Seq: 9		13:08:58 17 Oct 07		HG	
			130619,1						
Hg	-.046	ppb	119						
		Bkgd 1	16271075						= =

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 47418367 Instrument: MET04 HydraAA HG Analyzer Begun: 17-OCT-2007
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	130619	ICALBLK	STD01REP1				17-OCT-2007 12:47	1.0	1.0									
002	130619	ICAL	STD02REP1				17-OCT-2007 12:49	1.0	1.0									
003	130619	ICAL	STD03REP1				17-OCT-2007 12:51	1.0	1.0									
004	130619	ICAL	STD04REP1				17-OCT-2007 12:53	1.0	1.0									
005	130619	ICAL	STD05REP1				17-OCT-2007 12:55	1.0	1.0									
006	130619	ICAL	STD06REP1				17-OCT-2007 12:57	1.0	1.0									
007	130619	ICV					17-OCT-2007 13:04	1.0	1.0	2	5.000	47418367001	5.210		ug/L	104		
008	130619	ICB					17-OCT-2007 13:06	1.0	1.0			47418367001	ND	0.20	ug/L			
009	130619	BLANK	QC410866		130619	Soil	17-OCT-2007 13:08	1.0	100.0			47418367001	ND	0.020	mg/Kg			u
010	130619	BS	QC410867		130619	Soil	17-OCT-2007 13:11	1.0	100.0		0.5000	47418367001	0.5060	0.020	mg/Kg	101		u
011	130619	BSD	QC410868		130619	Soil	17-OCT-2007 13:13	1.0	100.0		0.5000	47418367001	0.5060	0.020	mg/Kg	101	0	u
012	130619	MSS	198354-002		130619	Soil	17-OCT-2007 13:15	1.0	96.15			47418367001	0.024	0.020	mg/Kg			u
013	130619	SER	QC410869	198354-002	130619	Soil	17-OCT-2007 13:17	5.0	96.15			47418367001	ND	0.096	mg/Kg		--	u
014	130619	MS	QC410870	198354-002	130619	Soil	17-OCT-2007 13:19	1.0	89.29		0.4464	47418367001	0.5455	0.020	mg/Kg	117		u
015	130619	MSD	QC410871	198354-002	130619	Soil	17-OCT-2007 13:21	1.0	94.34		0.4717	47418367001	0.4915	0.020	mg/Kg	99	16	u
016	130619	SAMPLE	198325-008		130619	Miscel	17-OCT-2007 13:23	1.0	78.13			47418367001	0.020	0.020	mg/Kg			u
017	130619	SAMPLE	198325-009		130619	Miscel	17-OCT-2007 13:25	1.0	72.46			47418367001	ND	0.020	mg/Kg			u
018	130619	SAMPLE	198325-010		130619	Soil	17-OCT-2007 13:28	1.0	84.75			47418367001	ND	0.020	mg/Kg			u
019	130619	CCV					17-OCT-2007 13:30	1.0	1.0	3	2.500	47418367001	2.640		ug/L	106		
020	130619	CCB					17-OCT-2007 13:32	1.0	1.0			47418367001	ND	0.20	ug/L			
021	130619	SAMPLE	198325-011		130619	Soil	17-OCT-2007 13:34	1.0	86.21			47418367001	ND	0.020	mg/Kg			u
022	130619	SAMPLE	198325-012		130619	Soil	17-OCT-2007 13:36	1.0	83.33			47418367001	0.039	0.020	mg/Kg			u
023	130619	SAMPLE	198325-013		130619	Soil	17-OCT-2007 13:38	1.0	94.34			47418367001	0.032	0.020	mg/Kg			u
024	130619	SAMPLE	198338-001		130619	Soil	17-OCT-2007 13:40	1.0	104.2			47418367001	0.032	0.021	mg/Kg			u
025	130619	SAMPLE	198338-002		130619	Soil	17-OCT-2007 13:43	1.0	81.97			47418367001	0.045	0.020	mg/Kg			u
026	130619	SAMPLE	198354-003		130619	Soil	17-OCT-2007 13:45	1.0	89.29			47418367001	0.13	0.020	mg/Kg			u
027	130619	SAMPLE	198354-004		130619	Soil	17-OCT-2007 13:47	1.0	98.04			47418367001	0.044	0.020	mg/Kg			u
028	130619	SAMPLE	198354-006		130619	Soil	17-OCT-2007 13:49	1.0	98.04			47418367001	ND	0.020	mg/Kg			u
029	130619	SAMPLE	198354-007		130619	Soil	17-OCT-2007 13:51	1.0	75.76			47418367001	0.041	0.020	mg/Kg			u
030	130619	SAMPLE	198354-008		130619	Soil	17-OCT-2007 13:54	1.0	94.34			47418367001	0.061	0.020	mg/Kg			u
031	130619	CCV					17-OCT-2007 13:56	1.0	1.0	4	5.000	47418367001	5.040		ug/L	101		
032	130619	CCB					17-OCT-2007 13:58	1.0	1.0			47418367001	ND	0.20	ug/L			
033	130619	SAMPLE	198354-012		130619	Soil	17-OCT-2007 14:00	1.0	89.29			47418367001	0.17	0.020	mg/Kg			u
034	130619	SAMPLE	198354-013		130619	Soil	17-OCT-2007 14:03	1.0	75.76			47418367001	0.081	0.020	mg/Kg			u
035	130619	SAMPLE	198354-015		130619	Soil	17-OCT-2007 14:05	1.0	81.97			47418367001	0.026	0.020	mg/Kg			u
036	130619	SAMPLE	198354-016		130619	Soil	17-OCT-2007 14:07	1.0	89.29			47418367001	0.054	0.020	mg/Kg			u
037	130619	SAMPLE	198380-002		130619	Soil	17-OCT-2007 14:09	1.0	86.21			47418367001	2.4 >LR	0.020	mg/Kg			>LR cal
038	130619	CCV					17-OCT-2007 14:11	1.0	1.0	5	7.500	47418367001	7.420		ug/L	99		
039	130619	CCB					17-OCT-2007 14:14	1.0	1.0			47418367001	ND	0.20	ug/L			
040	130619	SAMPLE	198380-002		130619	Soil	17-OCT-2007 14:26	5.0	86.21			47418367001	2.5	0.086	mg/Kg			u
041	130619	CCV					17-OCT-2007 14:29	1.0	1.0	5	7.500	47418367001	7.770		ug/L	104		
042	130619	CCB					17-OCT-2007 14:31	1.0	1.0			47418367001	ND	0.20	ug/L			

Stds used: 1=S7465 2=S7467 3=S7468 4=S7469 5=S7470
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 10/17/07

Curtis & Tompkins Laboratories Sample Preparation Summary 17-OCT-2007 11:19

Batch Number : 130619
Date Extracted: 17-OCT-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7465
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198325-008			MWH	Miscell.	.64	g	50	78.125000	1				T26/HG		
198325-009			MWH	Miscell.	.69	g	50	72.463768	1				T26/HG		
198325-010			MWH	Soil	.59	g	50	84.745763	1				T26/HG		
198325-011			MWH	Soil	.58	g	50	86.206897	1				T26/HG		
198325-012			MWH	Soil	.6	g	50	83.333333	1				T26/HG		
198325-013			MWH	Soil	.53	g	50	94.339623	1				T26/HG		
198338-001			Brown and Caldwell	Soil	.48	g	50	104.166667	1				T26/HG		
198338-002			Brown and Caldwell	Soil	.61	g	50	81.967213	1				T26/HG		
198354-002			Kleinfelder	Soil	.52	g	50	96.153846	1				T26/HG		MSS
198354-003			Kleinfelder	Soil	.56	g	50	89.285714	1				T26/HG		
198354-004			Kleinfelder	Soil	.51	g	50	98.039216	1				T26/HG		
198354-006			Kleinfelder	Soil	.51	g	50	98.039216	1				T26/HG		
198354-007			Kleinfelder	Soil	.66	g	50	75.757576	1				T26/HG		
198354-008			Kleinfelder	Soil	.53	g	50	94.339623	1				T26/HG		
198354-012			Kleinfelder	Soil	.56	g	50	89.285714	1				T26/HG		
198354-013			Kleinfelder	Soil	.66	g	50	75.757576	1				T26/HG		
198354-015			Kleinfelder	Soil	.61	g	50	81.967213	1				T26/HG		
198354-016			Kleinfelder	Soil	.56	g	50	89.285714	1				T26/HG		
198380-002			Mactec, Inc.	Soil	.58	g	50	86.206897	1				T26/HG		
QC410866	BLANK			Soil	.5	g	50	100.000000	1				HG		
QC410867	BS			Soil	.5	g	50	100.000000	1	2.5			HG		
QC410868	BSD			Soil	.5	g	50	100.000000	1	2.5			HG		
QC410869	SER	of 198354-002		Soil	.52	g	50	96.153846	1				HG		
QC410870	MS	of 198354-002		Soil	.56	g	50	89.285714	1	2.5			HG		
QC410871	MSD	of 198354-002		Soil	.53	g	50	94.339623	1	2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 10/17/07

Relinquished By: _____ Received By: _____ Date: 10/17/07

09235

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 130619
Date Digested: 10117107
Digested by: SXM

Digestion Method
☒ EPA 7471A
☐ _____

BK 1930
Page 46

	Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	I98325-008 A	0.64	50.0	Y	
	09	0.69			
	10	0.59			
	11	0.58			
5	12	0.60			
	13	0.53			
	I98330-001	0.48			
	02	0.61			
	I98354-002	0.52			MSS
10	03	0.56			
	04	0.51			
	06	0.51			
	07	0.66			
	08	0.53			
15	12	0.56			
	13	0.66			
	15	0.61			
	16	0.56			
	I98380-001				SXM 101707
20	02C	0.58			
	MB QC410866	0.50			
	BS 67				
	BSD 68				
	MS 70	0.56			
	MSD 71	0.53			

25 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	S7465	SXM 101707
ICAL Source WS#	↓	
ICV / CCV WS#	S7467/68/69/70	
Digestion of Samples & Standards: Time ON / Temperature ON	11:15 / 95°C	
Time OFF/ Temperature OFF	11:45 / 95°C	
Aqua Regia Acids (HNO3+ HCl)	AR 101707	
5% $KMnO_4$	K 101107	
NaCl.hydroxylamine hydrochloride	H_4 092107	
Stannous Chloride	$SnCl_2$ 101207	
☒ filtered thru' 0.45 um syringe filter	R7CN29862	

10117107

Continued from page _____

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET04
alnum : 47425731001
nits : ug/L

Date : 22-OCT-2007 15:31
X Axis : R

Reviewer : ---
Type : SOIL

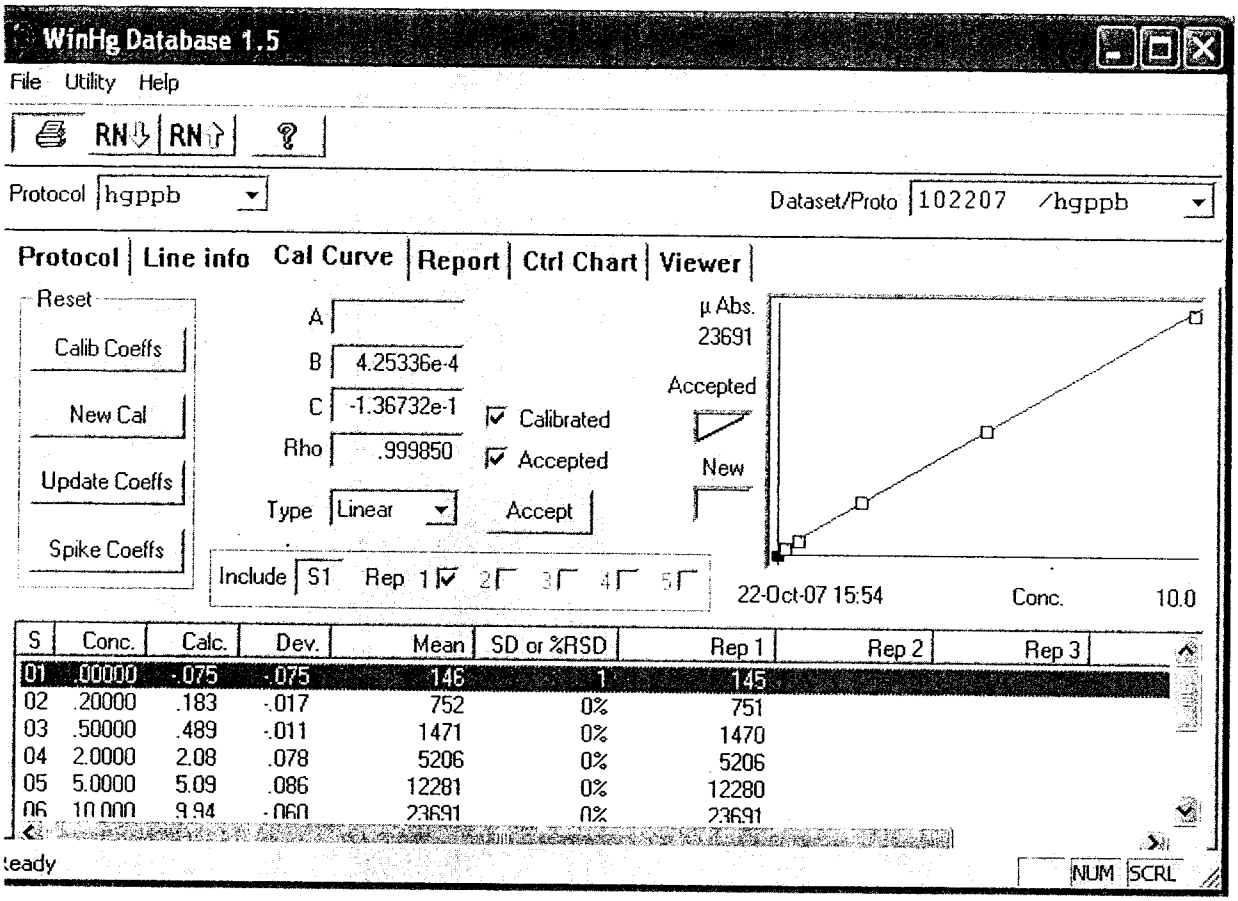
evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	130786	47425731002	STD02REP1	22-OCT-2007 15:33	S7499 (500X)
L2	130786	47425731003	STD03REP1	22-OCT-2007 15:35	S7499 (200X)
L3	130786	47425731004	STD04REP1	22-OCT-2007 15:42	S7499 (50X)
L4	130786	47425731005	STD05REP1	22-OCT-2007 15:52	S7499 (20X)
L5	130786	47425731006	STD06REP1	22-OCT-2007 15:54	S7499 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ercury	3755.0	2940.0	2603.0	2456.0	2369.1	LINR	-0.1367	4.25E-4		2824.6	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.200	-9	0.500	-2	2.000	4	5.000	2	10.00	-1

tment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

e 1 of 1


WinHg Database 1.5
File Utility Help
RN RN
Protocol hgppb
Dataset/Proto 102207 /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 4.25336e-4
C -1.36732e-1
Rho .999850
Type Linear
Calibrated
Accepted
Accept
µ Abs.
23691
Accepted
New
Include S1 Rep 1 2 3 4 5
22-Oct-07 15:54
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.075 .075 146 1 145
02 .20000 .183 -.017 752 0% 751
03 .50000 .489 -.011 1471 0% 1470
04 2.0000 2.08 .078 5206 0% 5206
05 5.0000 5.09 .086 12281 0% 12280
06 10.000 9.94 -.060 23691 0% 23691
Ready
NUM SCRL

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 7	15:31:27 22 Oct 07	HG		
Hg	.000	ppb	145					
		Bkgd 1	16338755					
*** Standard: 2 Rep: 1				Seq: 8	15:33:32 22 Oct 07	HG		
Hg	.200	ppb	751					
		Bkgd 1	16340097					
*** Standard: 3 Rep: 1				Seq: 9	15:35:55 22 Oct 07	HG		
Hg	.500	ppb	1470					
		Bkgd 1	16334361					
*** Standard: 4 Rep: 1				Seq: 10	15:42:10 22 Oct 07	HG		
Hg	2.00	ppb	5206					
		Bkgd 1	16323337					
*** Standard: 5 Rep: 1				Seq: 13	15:52:24 22 Oct 07	HG		
Hg	5.00	ppb	12280					
		Bkgd 1	16330057					
*** Standard: 6 Rep: 1				Seq: 14	15:54:39 22 Oct 07	HG		
Hg	10.0	ppb	23691					
		Bkgd 1	16321421					
*** Check Standard: 2			Ck2s7501	Seq: 15	15:56:45 22 Oct 07	HG		
Line Flag			Intensities					
Hg			12052					
		Bkgd 1	16312797					
*** Check Standard: 1			Ck1ICB	Seq: 16	15:58:53 22 Oct 07	HG		
Line Flag			Intensities					
Hg			96					
		Bkgd 1	16321523					
*** Sample ID: qc411545				Seq: 17	16:01:00 22 Oct 07	HG		
			130786,1					
Hg	-.186	ppb	-115					
		Bkgd 1	16332557					

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 47425731 Instrument: MET04 HydraAA HG Analyzer
nalytical Method: EPA 7470A SOP Version: HG_water_rv7 Begun: 22-OCT-2007
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
130786	ICALBLK	STD01REP1				22-OCT-2007 15:31	1.0	1.0									
130786	ICAL	STD02REP1				22-OCT-2007 15:33	1.0	1.0									
130786	ICAL	STD03REP1				22-OCT-2007 15:35	1.0	1.0									
130786	ICAL	STD04REP1				22-OCT-2007 15:42	1.0	1.0									
130786	ICAL	STD05REP1				22-OCT-2007 15:52	1.0	1.0									
130786	ICAL	STD06REP1				22-OCT-2007 15:54	1.0	1.0									
130786	ICV					22-OCT-2007 15:56	1.0	1.0	2	5.000	47425731001	4.990		ug/L	100		
130786	ICB					22-OCT-2007 15:58	1.0	1.0			47425731001	ND	0.20	ug/L			
130786	BLANK	QC411545		130786	Soil	22-OCT-2007 16:01	1.0	100.0			47425731001	ND	0.020	mg/Kg			u
130786	BS	QC411546		130786	Soil	22-OCT-2007 16:03	1.0	100.0		0.5000	47425731001	0.5340	0.020	mg/Kg	107		u
130786	BSD	QC411547		130786	Soil	22-OCT-2007 16:05	1.0	100.0		0.5000	47425731001	0.5100	0.020	mg/Kg	102	5	u
130786	MSS	198326-011		130786	Soil	22-OCT-2007 16:07	1.0	92.59			47425731001	0.47	0.020	mg/Kg			u
130786	SER	QC411548	198326-011	130786	Soil	22-OCT-2007 16:09	5.0	92.59			47425731001	0.50	0.093	mg/Kg		7	u
130786	MS	QC411549	198326-011	130786	Soil	22-OCT-2007 16:11	1.0	81.97		0.4098	47425731001	0.8016	0.020	mg/Kg	80		u
130786	MSD	QC411550	198326-011	130786	Soil	22-OCT-2007 16:14	1.0	86.21		0.4310	47425731001	0.8293	0.020	mg/Kg	83	1	u
130786	SAMPLE	198326-016		130786	Soil	22-OCT-2007 16:16	1.0	87.72			47425731001	0.62	0.020	mg/Kg			u
130786	SAMPLE	198326-020		130786	Soil	22-OCT-2007 16:18	1.0	92.59			47425731001	ND	0.020	mg/Kg			u
130786	SAMPLE	198326-024		130786	Soil	22-OCT-2007 16:20	1.0	83.33			47425731001	ND	0.020	mg/Kg			u
130786	CCV					22-OCT-2007 16:22	1.0	1.0	3	2.500	47425731001	2.680		ug/L	107		
130786	CCB					22-OCT-2007 16:25	1.0	1.0			47425731001	ND	0.20	ug/L			
130786	SAMPLE	198380-001		130786	Soil	22-OCT-2007 16:27	1.0	96.15			47425731001	5.9 >LR	0.020	mg/Kg			>LR cal
130786	SAMPLE	198521-001		130786	Soil	22-OCT-2007 16:29	1.0	86.21			47425731001	0.076	0.020	mg/Kg			u
130786	SAMPLE	198521-002		130786	Soil	22-OCT-2007 16:31	1.0	80.65			47425731001	0.094	0.020	mg/Kg			u
130786	SAMPLE	198521-003		130786	Soil	22-OCT-2007 16:34	1.0	92.59			47425731001	0.026	0.020	mg/Kg			u
130786	SAMPLE	198521-004		130786	Soil	22-OCT-2007 16:36	1.0	83.33			47425731001	0.078	0.020	mg/Kg			u
130786	SAMPLE	198521-005		130786	Soil	22-OCT-2007 16:38	1.0	92.59			47425731001	0.17	0.020	mg/Kg			u
130786	SAMPLE	198521-006		130786	Soil	22-OCT-2007 16:41	1.0	106.4			47425731001	0.089	0.021	mg/Kg			u
130786	SAMPLE	198521-007		130786	Soil	22-OCT-2007 16:43	1.0	90.91			47425731001	0.14	0.020	mg/Kg			u
130786	SAMPLE	198521-008		130786	Soil	22-OCT-2007 16:45	1.0	81.97			47425731001	0.087	0.020	mg/Kg			u
130786	SAMPLE	198521-010		130786	Soil	22-OCT-2007 16:47	1.0	72.46			47425731001	0.098	0.020	mg/Kg			u
130786	CCV					22-OCT-2007 16:49	1.0	1.0	4	5.000	47425731001	5.180		ug/L	104		
130786	CCB					22-OCT-2007 16:52	1.0	1.0			47425731001	ND	0.20	ug/L			
130786	SAMPLE	198521-011		130786	Soil	22-OCT-2007 16:54	1.0	86.21			47425731001	0.14	0.020	mg/Kg			u
130786	SAMPLE	198521-012		130786	Soil	22-OCT-2007 16:57	1.0	100.0			47425731001	0.063	0.020	mg/Kg			u
130786	SAMPLE	198521-014		130786	Soil	22-OCT-2007 16:59	1.0	90.91			47425731001	0.11	0.020	mg/Kg			u
130786	SAMPLE	198521-015		130786	Soil	22-OCT-2007 17:01	1.0	89.29			47425731001	0.085	0.020	mg/Kg			u
130786	SAMPLE	198521-017		130786	Soil	22-OCT-2007 17:03	1.0	100.0			47425731001	0.10	0.020	mg/Kg			u
130786	SAMPLE	198521-020		130786	Soil	22-OCT-2007 17:06	1.0	98.04			47425731001	0.12	0.020	mg/Kg			u
130786	SAMPLE	198380-001		130786	Soil	22-OCT-2007 17:08	10.0	96.15			47425731001	4.8	0.19	mg/Kg			u
130786	CCV					22-OCT-2007 17:11	1.0	1.0	5	7.500	47425731001	7.750		ug/L	103		
130786	CCB					22-OCT-2007 17:13	1.0	1.0			47425731001	ND	0.20	ug/L			

s used: 1=S7499 2=S7501 3=S7502 4=S7503 5=S7504
g used: >LR=overrange b=noncompliant calc=check quantitation u=use

lyst: _____ Date: 102207

1 of 1

Curtis & Tompkins Laboratories Sample Preparation Summary 22-OCT-2007 13:15

Batch Number : 130786
Date Extracted: 22-OCT-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7499
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198326-011			Blasland, Bouck & Lee	Soil	.54	g	50	92.592593	1					PP13/HG		MSS
198326-016			Blasland, Bouck & Lee	Soil	.57	g	50	87.719298	1					PP13/HG		
198326-020			Blasland, Bouck & Lee	Soil	.54	g	50	92.592593	1					PP13/HG		
198326-024			Blasland, Bouck & Lee	Soil	.6	g	50	83.333333	1					PP13/HG		
198380-001			Mactec, Inc.	Soil	.52	g	50	96.153846	1					T26/HG		
198521-001			Bureau Veritas North America	Soil	.58	g	50	86.206897	1					T26/HG		
198521-002			Bureau Veritas North America	Soil	.62	g	50	80.645161	1					T26/HG		
198521-003			Bureau Veritas North America	Soil	.54	g	50	92.592593	1					T26/HG		
198521-004			Bureau Veritas North America	Soil	.6	g	50	83.333333	1					T26/HG		
198521-005			Bureau Veritas North America	Soil	.54	g	50	92.592593	1					T26/HG		
198521-006			Bureau Veritas North America	Soil	.47	g	50	106.382979	1					T26/HG		
198521-007			Bureau Veritas North America	Soil	.55	g	50	90.909091	1					T26/HG		
198521-008			Bureau Veritas North America	Soil	.61	g	50	81.967213	1					T26/HG		
198521-010			Bureau Veritas North America	Soil	.69	g	50	72.463768	1					T26/HG		
198521-011			Bureau Veritas North America	Soil	.58	g	50	86.206897	1					T26/HG		
198521-012			Bureau Veritas North America	Soil	.5	g	50	100.000000	1					T26/HG		
198521-014			Bureau Veritas North America	Soil	.55	g	50	90.909091	1					T26/HG		
198521-015			Bureau Veritas North America	Soil	.56	g	50	89.285714	1					T26/HG		
198521-017			Bureau Veritas North America	Soil	.5	g	50	100.000000	1					T26/HG		
198521-020			Bureau Veritas North America	Soil	.51	g	50	98.039216	1					T26/HG		
QC411545	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC411546	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC411547	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC411548	SER	of 198326-011		Soil	.54	g	50	92.592593	1					HG		
QC411549	MS	of 198326-011		Soil	.61	g	50	81.967213	1		2.5			HG		
QC411550	MSD	of 198326-011		Soil	.58	g	50	86.206897	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 10/22/07

Relinquished By: _____ Received By: _____ Date: 10122107

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 130786
Date Digested: 10/22/07
Digested by: JXM

Digestion Method
☒ EPA 7471A
☐ _____

BK 1930
Page 50

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
198326-011 B	0.54	50.0	Y	MSS
16A	0.57			
20	0.54			
24	0.60			
198380-001C	0.52			
198521-001D	0.58			
02	0.62			
03	0.54			
04	0.60			
06	~~0.54~~ 0.47			
07	0.55			
08	0.61			
10A	0.66			
11	0.58			
12	0.50			
14	0.55			
15	0.56			
17	0.50			
20	0.51			
198521-005	0.54			
MB QC111545	0.50			
BS 46				
BSD 47				
MS 49	0.61			
MSD 50	0.58			

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	S7499	JXM 10/22/07
ICAL Source WS#	↓	
ICV / CCV WS#	S7501/02/03/04	
Digestion of Samples & Standards: Time ON / Temperature ON	8:00 / 95C	
Time OFF/ Temperature OFF	13:30 / 95C	
Aqua Regia Acids (HNO3+ HCl)	AR 102207	
5% $KMnO_4$	K 101807	
NaCl.hydroxylamine hydrochloride	H 101807	
Stannous Chloride	$SnCl_2$ 102207	
☒ filtered thru' 0.45 um syringe filter	R7CN29862	↓

10/22/07

Continued from page _____

Curtis & Tompkins, Ltd.

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	130742
Matrix:	Soil	Sampled:	10/15/07
Units:	%	Received:	10/15/07
Diln Fac:	1.000	Analyzed:	10/19/07

Field ID	Lab ID	Result	RL
1065BC400	198380-001	1	1
1065BC401	198380-002	3	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	198380	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	130742
MSS Lab ID:	198425-001	Sampled:	10/16/07
Lab ID:	QC411375	Received:	10/16/07
Matrix:	Miscell.	Analyzed:	10/19/07

MSS Result	Result	RL	RPD	Lim
61.74	54.72	1.000	12	15

RL= Reporting Limit
RPD= Relative Percent Difference

Percent Moisture Summary Report

Batch: 130742
Date: 10/19/07
Method: CLP SOW 390
Analyst: HO

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
198380-001	11.2584	19.5700	19.5188	99	1
198380-002	11.2593	18.1170	17.9441	97	3
198414-001	11.3369	18.1827	16.5100	76	24
198414-002	10.8848	20.0826	18.5261	83	17
198414-003	11.0950	21.0839	19.7017	86	14
198414-004	11.3165	20.3987	18.6275	80	20
198414-005	11.2955	18.9343	17.7998	85	15
198414-006	11.0029	19.0064	17.7877	85	15
198414-007	11.3183	19.5411	17.9852	81	19
198425-001	11.6149	17.7235	13.9523	38	62
198492-001	11.0954	18.5194	17.4841	86	14
198492-002	11.3743	20.8166	19.2965	84	16
198492-003	11.3690	17.9466	16.9553	85	15
198492-004	11.3802	17.9721	17.1971	88	12
198492-005	11.3900	18.1766	17.2195	86	14
QC411375	11.6673	18.0155	14.5420	45	55
of 198425-001			RPD:	16.8%	12.1%

10.19.07

B# B0742

SAMPLE	SL	DISH	DISH WT	SAMPLE WT	FINAL WT	COMMENTS
BLK	—	CT14	11.3269	8	11.3268	
198414-001	D	CTPO	11.3369	18.1827	16.5100	
002		U1I	10.8848	20.0826	18.5261	
003		B123	11.0950	21.0839	19.7017	
004		CT25	11.3165	20.3987	18.6275	
005		CT22	11.2955	18.9343	17.7998	
006		5CB	11.0029	19.0864	17.7877	
007		B19	11.3183	19.5411	17.9852	
198425-001	A	ZAA	11.6149	17.7235	13.9523	SLUDGE
SLUDGE 001		AMS	11.6673	18.0155	14.5420	
198492-001	A	B121	11.0954	18.5194	17.4841	
002		C23	11.3743	20.8166	19.2965	
003		K03	11.3690	17.9466	16.9553	
004		C21	11.3802	17.9721	17.1971	
005		EC8	11.3900	18.1766	17.2195	
198380-004	A	A01	11.2584	19.5700	19.5188	
002	B	C30	11.2593	18.1170	17.9441	

TIME IN 7pm
OUT 9am
OVEN TEMP 105°C

Continued on Page

Read and Understood By

10.19.07

Signed Date Signed Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 130742
Date Started: 19-OCT-2007
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
198380-001		Mactec, Inc.	Soil	MOISTURE	25-OCT-2007
198380-002		Mactec, Inc.	Soil	MOISTURE	22-OCT-2007
198414-001		Weston Solutions	Soil	MOISTURE	23-OCT-2007
198414-002		Weston Solutions	Soil	MOISTURE	23-OCT-2007
198414-003		Weston Solutions	Soil	MOISTURE	23-OCT-2007
198414-004		Weston Solutions	Soil	MOISTURE	23-OCT-2007
198414-005		Weston Solutions	Soil	MOISTURE	23-OCT-2007
198414-006		Weston Solutions	Soil	MOISTURE	23-OCT-2007
198414-007		Weston Solutions	Soil	MOISTURE	23-OCT-2007
198425-001		Blasland, Bouck &	Miscell.	MOISTURE	23-OCT-2007
198492-001		Baseline Environme	Soil	MOISTURE	24-OCT-2007
198492-002		Baseline Environme	Soil	MOISTURE	24-OCT-2007
198492-003		Baseline Environme	Soil	MOISTURE	24-OCT-2007
198492-004		Baseline Environme	Soil	MOISTURE	24-OCT-2007
198492-005		Baseline Environme	Soil	MOISTURE	24-OCT-2007
QC411375	SDUP of 198425-001		Miscell.	MOISTURE	

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	HO	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	103°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	HO	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HO	105°C
10-7-07	HO	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HO	104°C
10-14-07	HO	104°C
10-16-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HO	105°C

Date	Initials	Temp (*C)

PROJECT METTLER AE-2000

Notebook No. BK-T52

Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	INTIAL	Weight SET
10-19-07	0.2000	1.0000	10,0000	50.0000	VV	35298
10-20-07	0.2000	1.0000	10.0000	50.0000	TC	35298

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 198818
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 Presidio Level : III

Sample ID	Lab ID
1065EX350[4.0]	198818-001
DUP103007	198818-002
1065EX351[4.0]	198818-003
1065EX352[4.0]	198818-004
1065EX353[4.0]	198818-005
1065EX355[4.0]	198818-006
1065EX356[4.0]	198818-007
1065EX353RBEX354	198818-008
TRIP BLANK	198818-009
1065EX354[4.0]	198818-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 11/19/2007
Project Manager

Signature: _____ Date: 11/21/2007
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198818**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**10/30/07**
Samples Received:	**10/30/07**

This hardcopy data package contains sample and QC results for eight soil samples and two water samples, requested for the above referenced project on 10/30/07. The samples were received on ice and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Water:
High surrogate recovery was observed for trifluorotoluene (FID) in the MS for batch 131113; the corresponding bromofluorobenzene (FID) surrogate recovery was within limits, and the parent sample was not a project sample. No other analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:
5035 samples not analyzed within 48 hours were frozen. Low recoveries were observed for gasoline C7-C12 in the MS/MSD of 1065EX352[4.0] (lab # 198818-004); the LCS was within limits, and the associated RPD was within limits. High surrogate recoveries were observed for bromofluorobenzene (FID) and trifluorotoluene (FID) in a number of samples, due to interference from coeluting hydrocarbon peaks. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 131124. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:
Matrix spikes were not reported for this analysis because the parent sample required re-extraction in another batch. No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:
Matrix spikes were not performed for this analysis due to insufficient sample volume. High ICAL percent RSD (relative standard deviation) was observed for vinyl acetate in the calibration analyzed 10/23/07 15:31; this analyte was not detected at or above the RL in the associated samples. High responses were observed for 2,2-dichloropropane and Freon 12 in the ICV analyzed 10/02/07 16:50, the ICV analyzed 10/02/07 17:22, and the ICV analyzed 10/23/07 20:35; these analytes were not detected at or above the RL in the associated samples. Low responses were observed for bromomethane and carbon disulfide in the CCV analyzed 10/31/07 14:04; these analytes met minimum response criteria. Low responses were observed for naphthalene, 1,2,4-trichlorobenzene, and vinyl acetate in the CCV analyzed 10/31/07 08:20; these analytes met minimum response criteria, and affected data was qualified

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198818**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**10/30/07**
Samples Received:	**10/30/07**

Volatile Organics by GC/MS (EPA 8260B) Water:

with "b". A number of analytes were detected between the MDL and the RL in the method blank for batch 131137; these analytes were not detected in the sample at or above the RL. Methylene chloride was detected between the MDL and the RL in 1065EX353RBEX354 (lab # 198818-008) and TRIP BLANK (lab # 198818-009); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:

5035 samples not analyzed within 48 hours were frozen. High responses were observed for a number of analytes in the CCV analyzed 11/05/07 12:29; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b". High response was observed for bromomethane in the CCV analyzed 10/31/07 09:15; this analyte was not detected at or above the RL in the associated samples. High response was observed for 1,2,4-trichlorobenzene in the CCV analyzed 11/01/07 13:28; this analyte was not detected at or above the RL in the associated method blank. Low response was observed for trichlorofluoromethane in the CCV analyzed 11/02/07 10:25; this analyte met minimum response criteria. Responses exceeding the instrument's linear range were observed for trichloroethene in the MS/MSD for batch 131189. High surrogate recoveries were observed for bromofluorobenzene in a number of samples, due to matrix interference. Acetone and methylene chloride were detected between the MDL and the RL in the method blanks for batch 131189, the method blank for batch 131245, and the method blank for batch 131351; these analytes were not detected in samples at or above the RL. Methylene chloride was detected between the MDL and the RL in many samples; this analyte is a common laboratory contaminant. 1065EX350[4.0] (lab # 198818-001), 1065EX352[4.0] (lab # 198818-004), 1065EX355[4.0] (lab # 198818-006), and DUP103007 (lab # 198818-002) were diluted due to high levels of hydrocarbons. 1065EX353[4.0] (lab # 198818-005) and 1065EX356[4.0] (lab # 198818-007) were not diluted; the low sample weight is due to 5035 packaging. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Water:

Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Soil:

Matrix spikes were not reported for this analysis because the parent sample required a dilution that would have diluted out the spikes. High surrogate recoveries were observed for nitrobenzene-d5 in 1065EX350[4.0] (lab #

#
95.0

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198818**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**10/30/07**
Samples Received:	**10/30/07**

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Soil:
198818-001), DUP103007 (lab # 198818-002), and 1065EX355[4.0] (lab # 198818-006), due to matrix interference. 1065EX353[4.0] (lab # 198818-005) was diluted due to high levels of non-target analytes. 1065EX350[4.0] (lab # 198818-001), DUP103007 (lab # 198818-002), and 1065EX355[4.0] (lab # 198818-006) were diluted due to the amber color of the sample extracts. 1065EX352[4.0] (lab # 198818-004) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A) Water:
Silver, antimony, and zinc were detected between the MDL and the RL in the method blank for batch 131150; these analytes were not detected in the sample at or above the RL. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A) Soil:
Low recoveries were observed for lead and antimony in the MS/MSD of 1065EX352[4.0] (lab # 198818-004); the BS/BSD were within limits, the associated RPDs were within limits, and the post digest spike was within limits. High recoveries were observed for copper and nickel; the BS/BSD were within limits, the associated RPDs were within limits, and the post digest spike was within limits. High % differences were observed for many analytes in the serial dilution of 1065EX352[4.0] (lab # 198818-004). Chromium, lead, and selenium were detected between the MDL and the RL in the method blank for batch 131130. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

#
95.0

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3817

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

198818

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust Building 1063
STREET ADDRESS:
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065
JOB NO.: 4084075115 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 10/30/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES including BTEX & hexane: VOCs (8260B); TPHg (8015M); TPHd & TPHmo-w-silica gel (8015M); PAHs (8270-SIM); Title 22 Metals (6010B/7470A)	FOR LAB USE ONLY
835	X		SO	1065EX350[4]	NOE30-4' Sidewall		4	X X X X X	
835				DUP103007-1	Sidewall		4	X X X X X	
910				1065EX351[4]	N-17E30-4 SW		4	X X X X X	
945				1065EX352[4]	NOE50-4 SW	MS/MSD	11	X X X X X	
1010				1065EX353[4]	N-17E50-4 SW		4	X X X X X	
1435				1065EX354[4]	NOE70-4 SW		4	X X X X X	
1450				1065EX355[4]	N-17E70-4 SW		4	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	10/30/07 1500		10/30/07 1500			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS: 1065EX352[ ] is a MS/MSD Sample
Lvl 3 Data Validation
48hr TAT

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

MACTEC

CHAIN OF CUSTODY RECORD

3818

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

198818

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065
JOB NO.: 408807515 024
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 10/30/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) including BTEX & Naphthalene	TPHg (8015M)	TPHd & TPHmo-Silica gel	PAHs (8270-SIM)	Title 22 Metals	FOR LAB USE ONLY
1345	X		W	EX353RBEX354	Equipment Blank		12	X	X	X	X	X	
NA			W	Tripblank			2	X	X				

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	10/30/07 1500		10/30/07 1500			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS

[redacted]
Standard TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

MACTEC

CHAIN OF CUSTODY RECORD

3819

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

198817

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065
JOB NO.: 408807515 024
SAMPLERS (SIGNATURE): Scott Bal
SAMPLERS INITIALS (PRINT): SRC
SAMPLING DATE: 10/30/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) including BTEX & 2-Hexanone	TPHg (8015M)	TPHd & TPHmo-w silica gel	PAHs (8270-SIM)	Title 22 Metals	FOR LAB USE ONLY
1405	X		SO	1065EX354[4]	ON 10E-4 SW		4	X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
Scott Bal	10/30/07 1500		11/30/07 1500			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl IV Data ~~Package~~ Validation

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

F1008 (05/00)

Steve Stanley

From: "Heassler, Mary Jo" <MHeassler@mactec.com>
To: <steve@ctberk.com>
Cc: "Carlyon, Kristen" <KACARLYON@mactec.com>; "Evans, Kathleen" <KKEvans@mactec.com>
Sent: Wednesday, October 31, 2007 11:29 AM
Attach: coc-1065_1030_p2.jpg
Subject: COC changes and login for 198818

Addtional COC changes. Revised COC attached. The client has requested that these samples be placed on standard TAT.

4)MACTEC sample ID for lab sample 198818-001 change from 1065EX350[4]to 1065EX350[4.0]
5)MACTEC sample ID for lab sample 198818-002 change from DUP103007-1 to DUP103007
6)MACTEC sample ID for lab sample 198818-003 change from 1065EX351[4] to 1065EX351[4.0]
7)MACTEC sample ID for lab sample 198818-004 change from 1065EX352[4] to 1065EX352[4.0]
8)MACTEC sample ID for lab sample 198818-005 change from 1065EX353[4] to 1065EX353[4.0]
9)MACTEC sample ID for lab sample 198818-006 change from 1065EX355[4] to 1065EX355[4.0]
10) MACTEC sample ID for lab sample 198818-007 change from 1065EX356[4] to 1065EX356[4.0]

MACTEC

CHAIN OF CUSTODY RECORD

ACTEC Engineering and Consulting, Inc.
141 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY:

STREET ADDRESS:

CITY / STATE: ZIP:

PROJECT NAME

JOB NO.

SAMPLERS (SIGNATURE)

SAMPLERS INITIALS (PRINT)

SAMPLING DATE 10/30/02

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES	FOR LAB USE ONLY
835	X		SO		NOE 30-4' Sidewall		4	X X X X X	
835			SO	DUP030202	Sidewall		4	X X X X X	
910			SO		N-17E30-4 SW		4	X X X X X	
945			SO		NOE 30-4 SW	MS/MSD	4	X X X X X	
1010			SO		N-17E30-4 SW		4	X X X X X	
1035			SO		N0E70-4 SW		4	X X X X X	
1050			SO		N-17E70-4 SW		4	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

Standard TAT

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

1008 (05/00)

Steve Stanley

From: "Heassler, Mary Jo" <MHeassler@mactec.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Carlyon, Kristen" <KACARLYON@mactec.com>; "Hart, Mary" <MCHART@mactec.com>; "Evans, Kathleen" <KKEvans@mactec.com>; "Graham, Scott" <SRGRAHAM@mactec.com>
Sent: Wednesday, October 31, 2007 11:19 AM
Attach: COC_1065_10_30.jpg
Subject: RE: 4084075115 - C&T Login Summary (198818) - Revisions to COCs and login

Three changes.
1) The client has indicated that these samples do not to need to be on rush, but standard TAT. The samples submitted today. I will call you later about this.
2)MACTEC sample ID for Lab sample 198818-008 change from EX353RB354 to 1065EX353RB354
3)MACTEC sample ID for lab sample 198818-009 change from TRIP BLANK to TB103007
Revised COC is attached.

I will follow up with additional changes in a separate e-mail as my scans of the COCs are so large

Also I have instructed the field persons to collect three Encore for TPHg and 3 Encore for VOCs.

As far as water analyses, I am assuming that three VOAs will be needed for TPHg and 3 VOAs for VOCs, let us know if fewer are necessary

—Original Message—
From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Tue 10/30/2007 10:02 PM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Hart, Mary; Evans, Kathleen; Graham, Scott
Subject: 4084075115 - C&T Login Summary (198818)

C&T Login Summary for 198818

Project: 4084075115
Site: Bldg 1065 Presidio
Lab Login #: 198818
Report Due: 11/01/07
PO#: 2007-01797
C&T Proj Mgr: Steve Stanley
Report To: Mactec, Inc.

5341 Old Redwood Hwy

Suite 300

Petaluma, CA 94954

ATTN: Mary Jo Heassler

(707) 793-3800
Bill To: Mactec, Inc.

1105 Sanctuary Parkway

MACTEC

CHAIN OF CUSTODY RECORD

ACTEC Engineering and Consulting, Inc
41 Old Redwood Highway Suite 300
Petaluma, CA 94954
07) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION
NAME OF FACILITY:
STREET ADDRESS:
CITY / STATE: ZIP:

OJECT NAME: Building 102
JOB NO.: 4058.2117.024
MPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT):
MPLING DATE: 10/30/07

TIME	GRAB	COMP	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES	FOR LAB USE ONLY
345	X		W	102EX353RB354	Supervisor Hook		12	X X X X	
NA			W	Trip Blank			2	X X	
				TB103007					

RELINQUISHED BY: (SIGNATURE) — DATE / TIME: 10/30/07 1520
RECEIVED BY: (SIGNATURE) — DATE / TIME: 10/30/07 1520
RELINQUISHED BY: (SIGNATURE) — DATE / TIME:
RECEIVED BY: (SIGNATURE) — DATE / TIME:

*MATRIX
ER - W
SEDIMENT - SO
HER - NA

REMARKS: Send to TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

009 (05/00)

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: x Client Request By: M. Heassler Date/Time: 10/31/07 19:15 Initials: SES
Login Review Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
198817-001		1065EX354[4.0]	Soil	**Cancel**	ETVH, E8260	**11/6**
					8270-SIM, TEHM	
	The sample from 198817 is now included with 198818 as Level III				T26/ICP, T26/HG	
	You may need to fix the batching for this sample.				Moisture	
198818-010	198817-001	1065EX354[4.0]	Soil	**Add**	ETVH, E8260	**11/6**
					8270-SIM, TEHM	
					T26/ICP, T26/HG	
					Moisture	
198818 (all samples)			Soil	Update	ETVH, E8260	**11/6**
					8270-SIM, TEHM	
					T26/ICP, T26/HG	
All samples are on a 5-day TAT instead of a 2-day TAT.					Moisture	
198818 (all samples)			Water	Update	TVH, 8260	**11/6**
					8270-SIM, TEHM	
					T26/ICP, T26/HG	

CT0055

Steve Stanley

From: "Heassler, Mary Jo" <MHeassler@mactec.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Carlyon, Kristen" <KACARLYON@mactec.com>; "Evans, Kathleen" <KKEvans@mactec.com>
Sent: Wednesday, October 31, 2007 12:26 PM
Subject: RE: 4084075115 - C&T Login Summary (198817)

Kristen will be speaking with you about this.

1) We were wondering if this sample could be incorporated into SDG 198818 and Level III not Level IV
2) Also the TAT is standard 1 week rather than 48 hours at the client's request.
3) We would like to change MACTEC sample ID from 1065EX354[4] to 1065EX354[4.0]

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Tuesday, October 30, 2007 10:06 PM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Hart, Mary; Evans, Kathleen; Graham, Scott
Subject: 4084075115 - C&T Login Summary (198817)

NOTE: Only 3 Encore devices received at each location. This means one shot only for each TPHg and VOCs. There should be 3 for each analysis.

C&T Login Summary for 198817

Project: 4084075115 **Site:** Bldg 1065 Presidio **Lab Login #:** 198817 **Report Due:** 11/01/07 **PO#:** 2007-01797 **C&T Proj Mgr:** Steve Stanley	**Report To:** Mactec, Inc. 5341 Old Redwood Hwy Suite 300 Petaluma, CA 94954 ATTN: Mary Jo Heassler (707) 793-3800	**Bill To:** Mactec, Inc. 1105 Sanctuary P Suite 300 Alpharetta, GA 3 ATTN: Account (415) 278-2108

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	
1065EX354[4]	001	10/30	10/30			3819	ICP Okay for Bldg 1065; PA
				Soil	8270-SIM		
				Soil	E8260		
				Soil	ETVH		
				Soil	MOISTURE		
				Soil	T26 MET		
				Soil	TEHM		silica gel

Email compiled and sent 10/30/07 10:06 PM.

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 198818 Date Received: 10-30-07 Number of Coolers: 1
Client: Mactec Project: Building 1065

A. Preliminary Examination Phase
Date Opened: 10-30-07 By (print): Faith Nichols (sign) Faith L

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: Ziploc bags
9. If required, was sufficient ice used? Samples should be <=6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: No temp blank, all cold
10. Were Encore sampling devices present in the cooler? ..... (YES) NO
    If YES, enter time they were transferred to the freezer 1630

B. Login Phase
Date Logged In: 10-30-07 By (print): Faith Nichols (sign) Faith L

1. Did all bottles arrive unbroken? ..... (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? .. (YES) NO
3. Did bottle labels agree with custody papers? ..... (YES) NO
4. Were appropriate containers used for the tests indicated? ..... (YES) NO
5. Were correct preservatives added to samples? ..... (YES) NO
6. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below. ..... (YES) NO
8. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

TPH-PURGEABLE HYDROCARBONS IN WATER

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/30/07
Units:	ug/L	Received:	10/30/07
Diln Fac:	1.000	Analyzed:	10/30/07
Batch#:	131113		

Field ID: EX353RBEX354 Lab ID: 198818-008
Type: SAMPLE

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	50	16

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	65-135
Bromofluorobenzene (FID)	99	65-135

Field ID: TRIP BLANK Lab ID: 198818-009
Type: SAMPLE

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	50	16

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	107	65-135

Type: BLANK Lab ID: QC412943

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	50	16

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	65-135
Bromofluorobenzene (FID)	95	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.0

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC412944	Batch#:	131113
Matrix:	Water	Analyzed:	10/30/07
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	964.9	96	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	110	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	131113
MSS Lab ID:	198676-003	Sampled:	10/24/07
Matrix:	Water	Received:	10/24/07
Units:	ug/L	Analyzed:	10/30/07
Diln Fac:	1.000		

Type: MS Lab ID: QC412945

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	24.55	2,000	1,631	80	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137 *	65-135
Bromofluorobenzene (FID)	117	65-135

Type: MSD Lab ID: QC412946

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,742	86	65-135	7	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	132	65-135
Bromofluorobenzene (FID)	111	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCVOA Water: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

*Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 GCVOA Water
EPA 8015B

Inst : GC04 Name : GC04 TVH 166
Calnum : 307240439001 Cal Date : 16-JUN-2007

ICV 307240439025 (166_025 16-JUN-2007) stds: S6393 (1000X), S6435 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	4397.8	4535.9	10000	10310	ng	3	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 307435352001
Units : ng

Name : GC04 MBTXE/SURR 302
Date : 29-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	302_009	307435352009	BTXE_1	29-OCT-2007 19:38	S7260 (1000X), S7356 (5000X)
L2	302_010	307435352010	MBTXE_2	29-OCT-2007 20:15	S7258 (1250X), S7356 (5000X)
L3	302_011	307435352011	MBTXE_3	29-OCT-2007 20:53	S7258 (500X), S7356 (5000X)
L4	302_012	307435352012	MBTXE_4	29-OCT-2007 21:31	S7258 (125X), S7356 (5000X)
L5	302_013	307435352013	MBTXE_5	29-OCT-2007 22:08	S7257 (1000X), S7356 (5000X)
L6	302_014	307435352014	MBTXE_6	29-OCT-2007 22:46	S7257 (500X), S7356 (5000X)
L7	302_015	307435352015	MBTXE_7	29-OCT-2007 23:24	S7257 (250X), S7356 (5000X)
L8	302_016	307435352016	MTBE_7	30-OCT-2007 00:01	S6302 (500X), S7356 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3913.7	4177.7	3904.1	3661.5	3896.1	3977.3	3937.1	3852.6	AVRG		2.55E-4		3915.0	4	0.995	20	
Bromofluorobenzene (FID)	A	2412.2	2540.8	2428.9	2291.4	2510.4	2558.1	2584.1	2348.4	AVRG		4.07E-4		2459.3	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	7	450.0	0	450.0	-6	450.0	0	450.0	2	450.0	1	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-2	450.0	3	450.0	-1	450.0	-7	450.0	2	450.0	4	450.0	5	450.0	-5

MJM 10/30/07 : ICV: MTBE Failed low Ch. C. Report analyte from Ch. B. Ch. C to be used as confirm only.

Analyst: MJM Date: 10/30/07 Reviewer: LH Date: 10/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198818 GCVOA Water
EPA 8015B

Inst : GC04 Run Name : QC412944 IDF : 1.0
Seqnum : 307436826003.2 File : 303_003 Time : 30-OCT-2007 09:42
Standards: S7423 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4243.4	5000	4824	ng	-4	15	u
Trifluorotoluene (FID)	A	307435352001	29-OCT-2007	3915.0	4943.4	450.0	568.2	ng	**26**	15	c+ u
Bromofluorobenzene (FID)	A	307435352001	29-OCT-2007	2459.3	2714.1	450.0	496.6	ng	10	15	u

PDM 10/30/07 : PID surrogates are not applicable. [general version]

PDM 10/30/07 [Trifluorotoluene (FID) A]: Passes control limits. [general version]

Analyst: PDM Date: 10/31/07 Reviewer: MMP Date: 11/01/07

+=high bias c=CCV u=use

307436826003.2

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCVOA Water
EPA 8015B

Inst : GC04 Run Name : BTXE IDF : 1.0
Seqnum : 307436826016 File : 303_016 Time : 30-OCT-2007 19:05
Cal : 307435352001 Caldate : 29-OCT-2007
Standards: S7564 (666.7X), S7356 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	3915.0	4012.1	450.0	461.2	ng	2	15	
Bromofluorobenzene (FID)	A	2459.3	2565.3	450.0	469.4	ng	4	15	

PDM 10/31/07 : Will only use Channel C for confirm

PDM 10/31/07 : Ethlybenzene is failing high, samples reported in bracket are ND for this analyte.

Analyst: PDM Date: 10/31/07 Reviewer: MMP Date: 11/01/07

307436826016

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCVOA Water
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 307436826017 File : 303_017 Time : 30-OCT-2007 19:43
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4027.7	15000	13740	ng	-8	15	
Trifluorotoluene (FID)	A	307435352001	29-OCT-2007	3915.0	6224.2	450.0	715.4	ng	**59**	15	c+
Bromofluorobenzene (FID)	A	307435352001	29-OCT-2007	2459.3	2845.3	450.0	520.6	ng	**16**	15	c+

PDM 10/31/07 : PID surrogates are not applicable.

PDM 10/31/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

PDM 10/31/07 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: PDM Date: 10/31/07 Reviewer: MMP Date: 11/01/07

+=high bias c=CCV

307436826017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCVOA Water
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 307436826022 File : 303_022 Time : 30-OCT-2007 22:51
Standards: S7423 (1000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4138.5	10000	9410	ng	-6	15	
Trifluorotoluene (FID)	A	307435352001	29-OCT-2007	3915.0	5757.1	450.0	661.7	ng	**47**	15	c+
Bromofluorobenzene (FID)	A	307435352001	29-OCT-2007	2459.3	2851.6	450.0	521.8	ng	**16**	15	c+

PDM 10/31/07 : PID surrogates are not applicable.

PDM 10/31/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

PDM 10/31/07 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: PDM Date: 10/31/07 Reviewer: MMP Date: 11/01/07

+=high bias c=CCV

307436826022

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307240439

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 06/15/07 10:59
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	166_001	X	CMARK			06/15/07 10:59	1.0	1 2
002	166_002	CCV	TVH			06/15/07 11:37	1.0	3 2
003	166_003	X	CCV			06/15/07 12:15	1.0	4 2
004	166_004	X	IB			06/15/07 13:08	1.0	2
005	166_005	IB	CALIB			06/15/07 15:44	1.0	2
006	166_006	ICAL	BTXE_1			06/15/07 16:22	1.0	5 2
007	166_007	ICAL	BTXE_2			06/15/07 17:00	1.0	6 2
008	166_008	ICAL	BTXE_3			06/15/07 17:38	1.0	6 2
009	166_009	X	ICAL			06/15/07 18:16	1.0	6 2
010	166_010	ICAL	BTXE_5			06/15/07 18:54	1.0	7 2
011	166_011	ICAL	BTXE_6			06/15/07 19:31	1.0	7 2
012	166_012	ICAL	BTXE_7			06/15/07 20:09	1.0	7 2
013	166_013	ICAL	MTBE_7			06/15/07 20:47	1.0	8 2
014	166_014	X	IB			06/15/07 21:25	1.0	2
015	166_015	X	ICV			06/15/07 22:03	1.0	9 2
016	166_016	X	ICV			06/15/07 22:41	1.0	9 2
017	166_017	X	IB			06/15/07 23:19	1.0	2
018	166_018	IB	CALIB			06/15/07 23:57	1.0	2
019	166_019	ICAL	TVH 1			06/16/07 00:35	1.0	10 2
020	166_020	ICAL	TVH 2			06/16/07 01:13	1.0	11 2
021	166_021	ICAL	TVH 3			06/16/07 01:51	1.0	12 2
022	166_022	ICAL	TVH 4			06/16/07 02:29	1.0	13 2
023	166_023	ICAL	TVH 5			06/16/07 03:07	1.0	13 2
024	166_024	X	IB			06/16/07 03:45	1.0	2
025	166_025	ICV	TVH			06/16/07 04:23	1.0	3 2
026	166_026	ICV	TVH			06/16/07 05:01	1.0	3 2
027	166_027	X	IB			06/16/07 05:39	1.0	2
028	166_028	CMARKER				06/16/07 06:17	1.0	1 2
030	166_030	ICAL	BTXE_4			06/18/07 11:26	1.0	6 2
031	166_031	X	IB			06/18/07 12:04	1.0	2
032	166_032	ICV	MBTXE			06/18/07 12:42	1.0	9 2
033	166_033	IB	CALIB			06/18/07 13:30	1.0	2
034	166_034	ICAL	TFT/BFB_1			06/18/07 14:14	1.0	14
035	166_035	ICAL	TFT/BFB_2			06/18/07 14:54	1.0	15
036	166_036	ICAL	TFT/BFB_3			06/18/07 15:48	1.0	16
037	166_037	ICAL	TFT/BFB_4			06/18/07 16:37	1.0	17
038	166_038	ICAL	TFT/BFB_5			06/18/07 17:20	1.0	18

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Standards used: 1=S6383 2=S6435 3=S6393 4=S5943 5=S6305 6=S6304 7=S6303 8=S6302 9=S6204 10=S5937 11=S5936 12=S5935 13=S5934 14=S5951 15=S5952 16=S5953 17=S5954 18=S5955

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307435352

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 10/29/07 07:52
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	302_001	X	IB			10/29/07 07:52	1.0	1
002	302_002	X	CMARK			10/29/07 08:30	1.0	2 1
003	302_003	X	CCV			10/29/07 09:07	1.0	3 1
004	302_004	X	CCV			10/29/07 09:45	1.0	4 1
005	302_005	X	CCV			10/29/07 10:42	1.0	4 1
006	302_006	X	IB			10/29/07 11:35	1.0	1
007	302_007	X	IB			10/29/07 18:22	1.0	1
008	302_008	IB	CALIB			10/29/07 19:00	1.0	1
009	302_009	ICAL	BTXE_1			10/29/07 19:38	1.0	5 1
010	302_010	ICAL	MBTXE_2			10/29/07 20:15	1.0	6 1
011	302_011	ICAL	MBTXE_3			10/29/07 20:53	1.0	6 1
012	302_012	ICAL	MBTXE_4			10/29/07 21:31	1.0	6 1
013	302_013	ICAL	MBTXE_5			10/29/07 22:08	1.0	7 1
014	302_014	ICAL	MBTXE_6			10/29/07 22:46	1.0	7 1
015	302_015	ICAL	MBTXE_7			10/29/07 23:24	1.0	7 1
016	302_016	ICAL	MTBE_7			10/30/07 00:01	1.0	8 1
017	302_017	X	IB			10/30/07 00:39	1.0	1
018	302_018	ICV	MBTXE			10/30/07 01:17	1.0	9 1
019	302_019	X	ICV			10/30/07 01:54	1.0	9 1

Analyst: MJM Date: 10/30/07 Reviewer: LH Date: 10/30/07

Standards used: 1=S7356 2=S6725 3=S6970 4=S7423 5=S7260 6=S7258 7=S7257 8=S6302 9=S7263

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307436826

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 10/30/07 08:26
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	303_001	X	CMARK			10/30/07 08:26	1.0	1 2
002	303_002	X	CCV			10/30/07 09:04	1.0	3 2
003	303_003	CCV/LCS	QC412944	Water	131113	10/30/07 09:42	1.0	4 2
004	303_004	X	IB			10/30/07 10:29	1.0	2
005	303_005	X	CCV			10/30/07 11:06	1.0	3 2
006	303_006	CCV/LCS	QC412947	Water	131113	10/30/07 11:44	1.0	3 2
007	303_007	BLANK	QC412943	Water	131113	10/30/07 12:36	1.0	2
008	303_008	SAMPLE	198676-001	Water	131113	10/30/07 13:31	1.0	2
009	303_009	SAMPLE	198676-002	Water	131113	10/30/07 14:08	1.0	2
010	303_010	MSS	198676-003	Water	131113	10/30/07 14:46	1.0	2
011	303_011	SAMPLE	198676-004	Water	131113	10/30/07 15:24	1.0	2
012	303_012	MS	QC412945	Water	131113	10/30/07 16:01	1.0	4 2
013	303_013	MSD	QC412946	Water	131113	10/30/07 16:39	1.0	4 2
014	303_014	X	BTXE			10/30/07 17:50	1.0	5 2
015	303_015	X	TVH			10/30/07 18:28	1.0	4 2
016	303_016	CCV	BTXE			10/30/07 19:05	1.0	5 2
017	303_017	CCV	TVH			10/30/07 19:43	1.0	4 2
018	303_018	X	CMARK			10/30/07 20:20	1.0	1 2
019	303_019	SAMPLE	198818-008	Water	131113	10/30/07 20:58	1.0	2
020	303_020	SAMPLE	198818-009	Water	131113	10/30/07 21:36	1.0	2
021	303_021	X	TVH			10/30/07 22:13	1.0	4 2
022	303_022	CCV	TVH			10/30/07 22:51	1.0	4 2
023	303_023	X	CMARK			10/30/07 23:29	1.0	1 2
024	303_024	CCV	BTXE			10/31/07 08:59	1.0	5 2
025	303_025	SAMPLE	198676-002	Water	131113	10/31/07 10:32	1.0	2
026	303_026	CCV	BTXE			10/31/07 11:28	1.0	5 2

Analyst: PDM Date: 10/30/07 Reviewer: _____ Date: _____

Standards used: 1=S6725 2=S7356 3=S6970 4=S7423 5=S7564

REPORTING SUMMARY FOR 198818 GCVOA Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
198818-008	GC04	10/30/07 20:58	1.0	+	+	+	
198818-009	GC04	10/30/07 21:36	1.0	+	+	+	
QC412943	GC04	10/30/07 12:36	1.0	+	+	+	
QC412944	GC04	10/30/07 09:42	1.0	+	+	+	
QC412945	GC04	10/30/07 16:01	1.0	+	+	+	
QC412946	GC04	10/30/07 16:39	1.0	+	+	+	
QC412947	GC04	10/30/07 11:44	1.0				

TPH-PURGEABLE HYDROCARBONS IN SOIL

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07
Batch#:	131124		

Field ID:	1065EX350[4.0]	Moisture:	20%
Type:	SAMPLE	Diln Fac:	50.00
Lab ID:	198818-001	Analyzed:	10/31/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	1,900	63	1.5

Surrogate	%REC	Limits
Trifluorotoluene (FID)	209 *	65-135
Bromofluorobenzene (FID)	293 *	65-135

Field ID:	DUP103007	Moisture:	21%
Type:	SAMPLE	Diln Fac:	50.00
Lab ID:	198818-002	Analyzed:	10/31/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	2,200	63	1.5

Surrogate	%REC	Limits
Trifluorotoluene (FID)	208 *	65-135
Bromofluorobenzene (FID)	317 *	65-135

Field ID:	1065EX351[4.0]	Moisture:	8%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	198818-003	Analyzed:	10/30/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.33	0.0079

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	89	65-135

Field ID:	1065EX352[4.0]	Moisture:	17%
Type:	SAMPLE	Diln Fac:	20.00
Lab ID:	198818-004	Analyzed:	10/30/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	1,100	24	0.59

Surrogate	%REC	Limits
Trifluorotoluene (FID)	143 *	65-135
Bromofluorobenzene (FID)	351 *	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07
Batch#:	131124		

Field ID:	1065EX353[4.0]	Moisture:	10%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	198818-005	Analyzed:	10/30/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.023 J	0.23	0.0056

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	65-135
Bromofluorobenzene (FID)	105	65-135

Field ID:	1065EX355[4.0]	Moisture:	14%
Type:	SAMPLE	Diln Fac:	20.00
Lab ID:	198818-006	Analyzed:	10/30/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	1,100	23	0.57

Surrogate	%REC	Limits
Trifluorotoluene (FID)	143 *	65-135
Bromofluorobenzene (FID)	371 *	65-135

Field ID:	1065EX356[4.0]	Moisture:	4%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	198818-007	Analyzed:	10/31/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.33	0.0081

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	96	65-135

Field ID:	1065EX354[4.0]	Moisture:	12%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	198818-010	Analyzed:	10/31/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.20	0.18	0.0045

Surrogate	%REC	Limits
Trifluorotoluene (FID)	125	65-135
Bromofluorobenzene (FID)	76	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

55.0

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07
Batch#:	131124		

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC412983	Analyzed:	10/30/07
Basis:	as received		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.20	0.0049

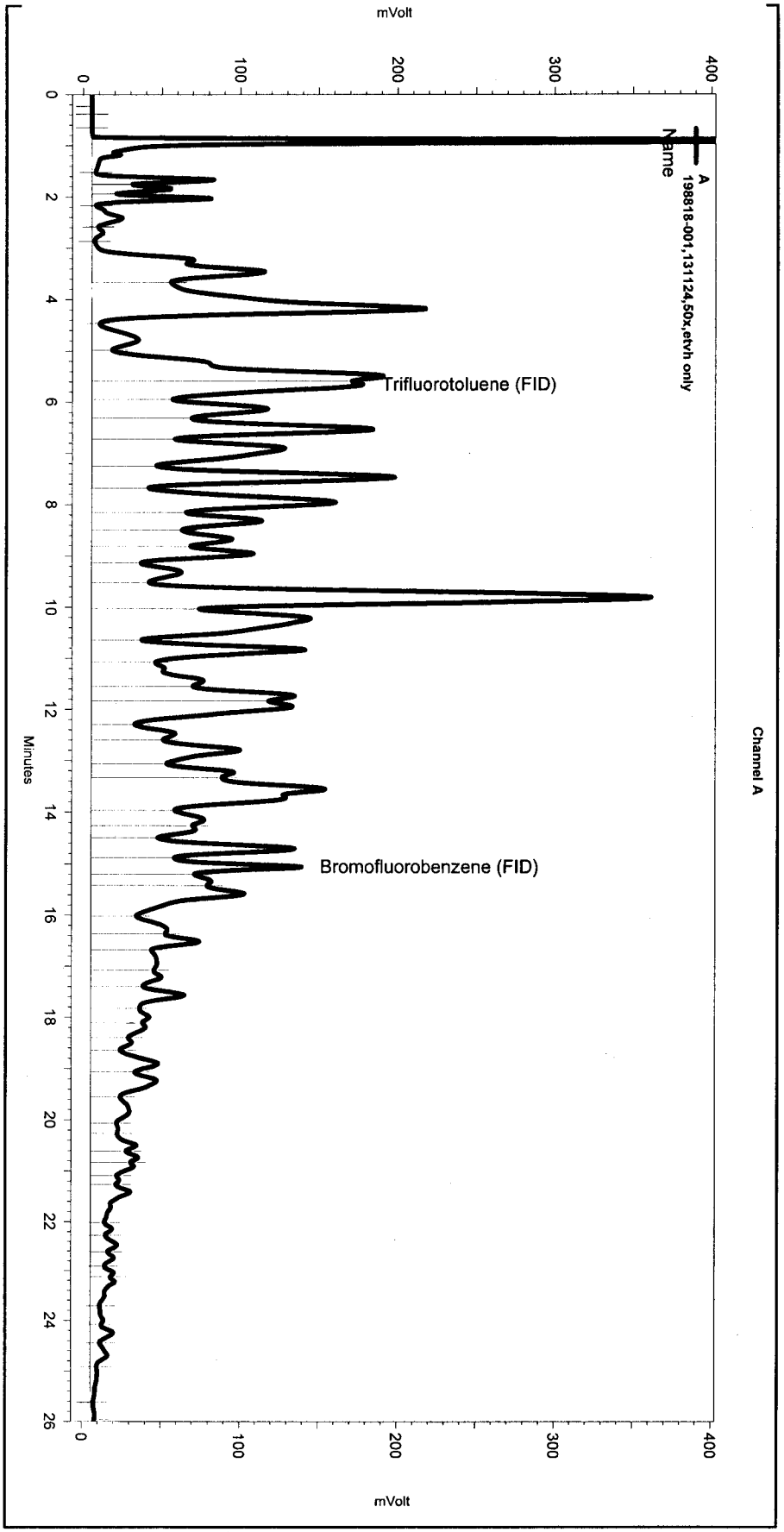
Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	65-135
Bromofluorobenzene (FID)	101	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

55.0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq**
Sample Name: **198818-001,131124,50x,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\303_035**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/31/2007 1:19:43 PM
Analysis Date: 10/31/2007 2:46:58 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

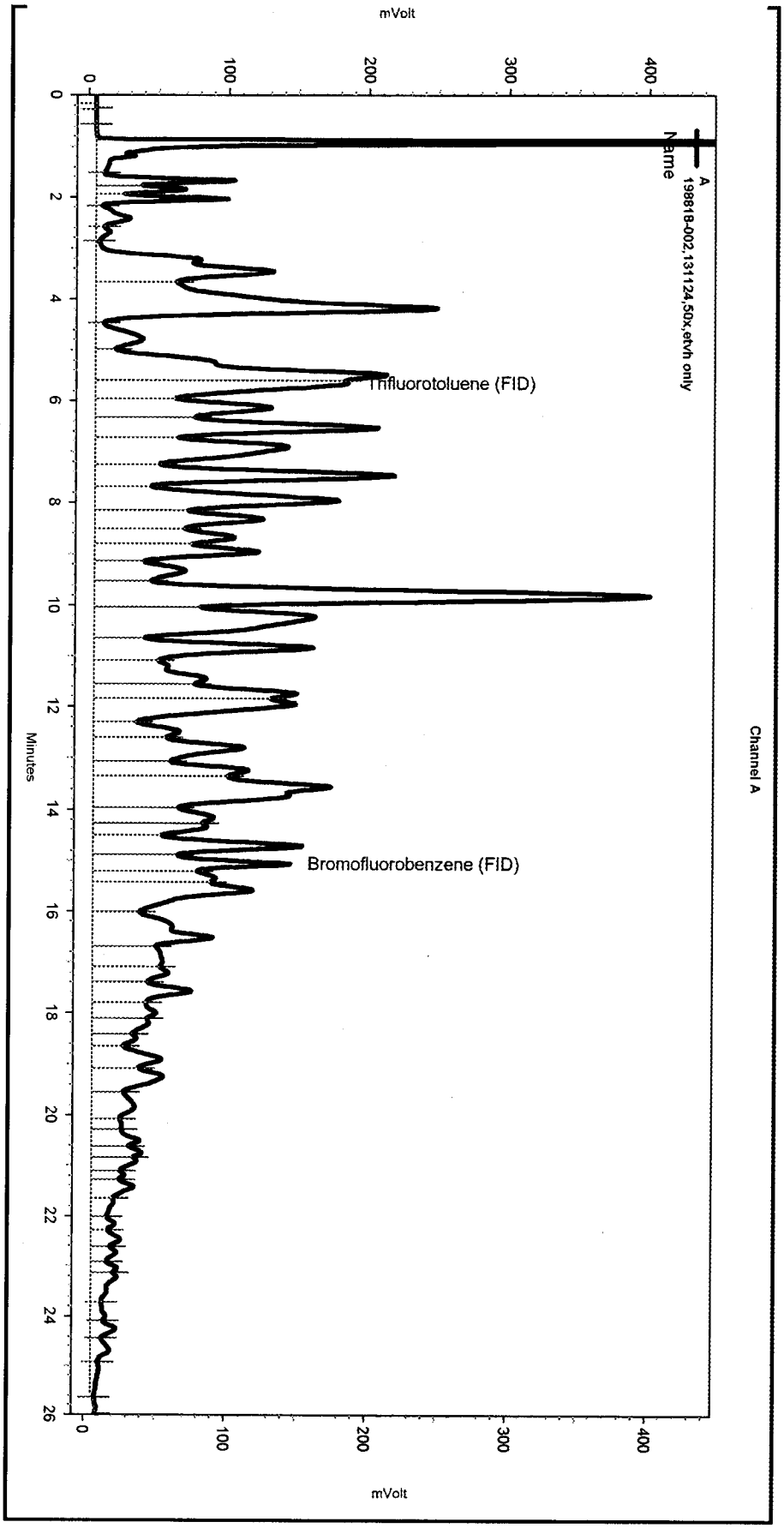
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_035

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.792	25.728	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq
Sample Name: **198818-002,131124,50x,etvh only**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_036
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/31/2007 1:56:20 PM
Analysis Date: 10/31/2007 3:47:59 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: a



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

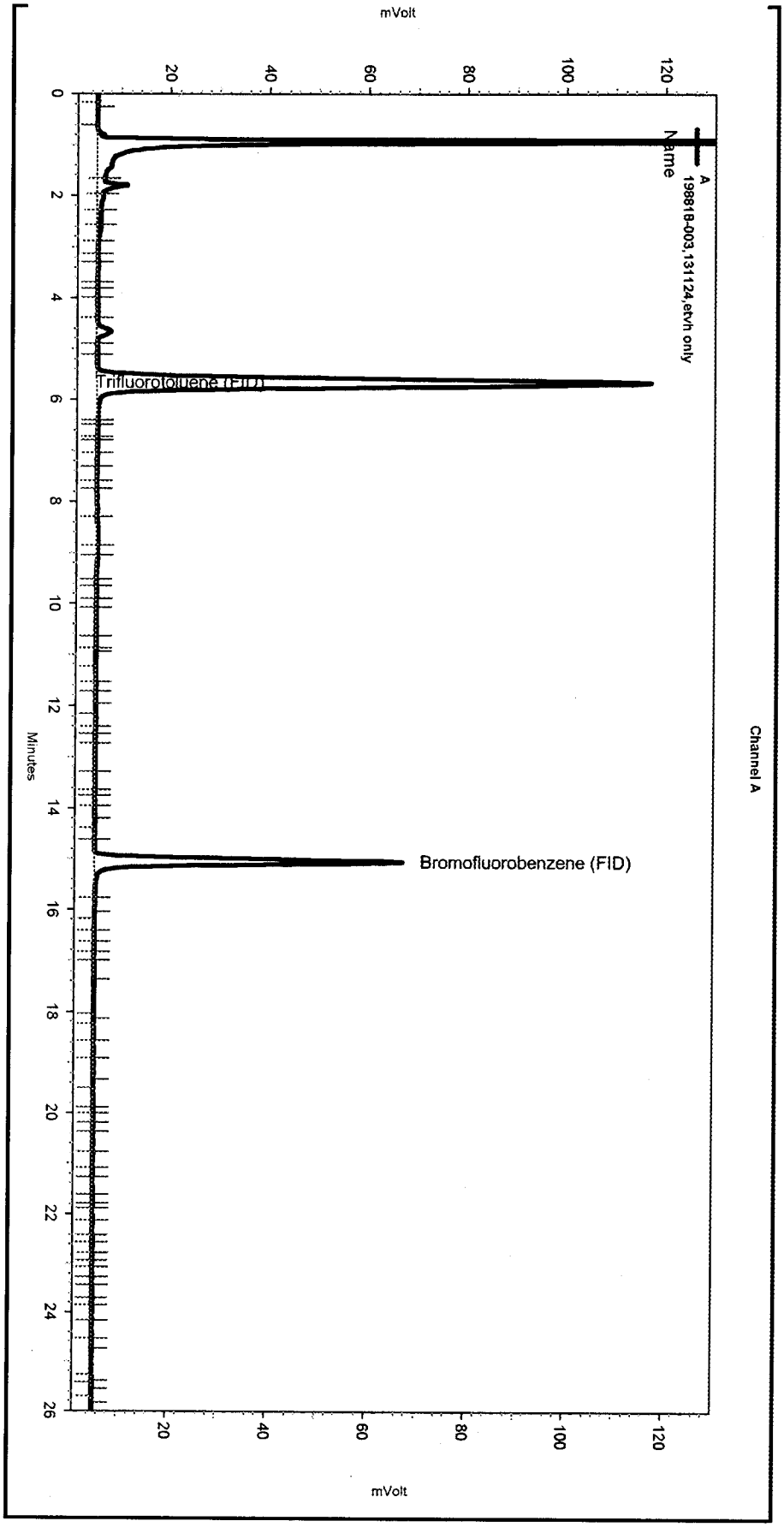
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.413	25.587	0
Yes	Split Peak	5.597	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq**
Sample Name: **198818-003,131124,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\303_017**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/30/2007 11:06:03 PM
Analysis Date: 11/1/2007 12:29:42 PM
Sample Amount: 3.34 Multiplier: 3.34
Vial & pH or Core ID: a



—< General Method Parameters >—

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

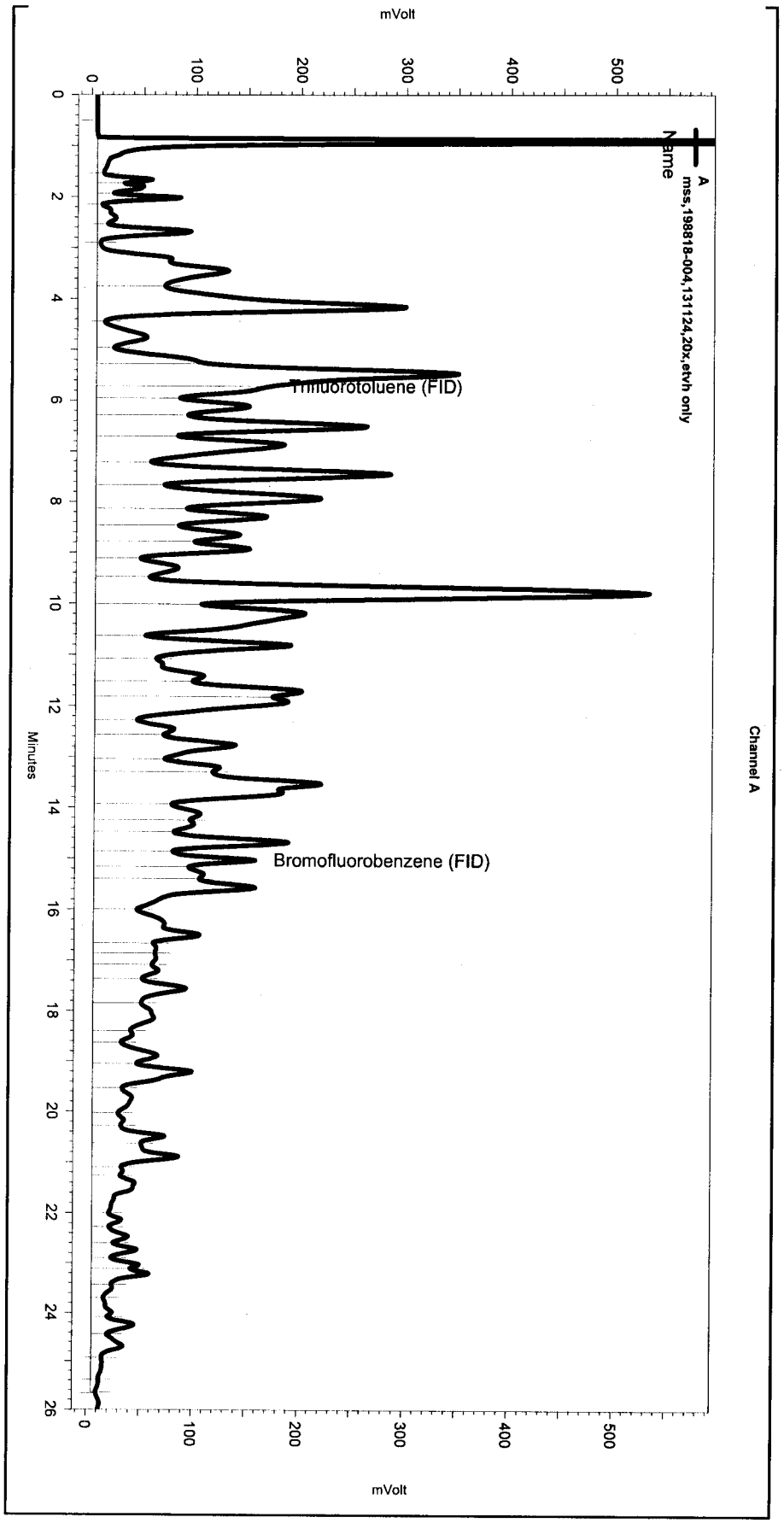
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq**
Sample Name: **mss,198818-004,131124,20x,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\303_011**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/30/2007 7:26:27 PM
Analysis Date: 10/31/2007 12:05:47 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

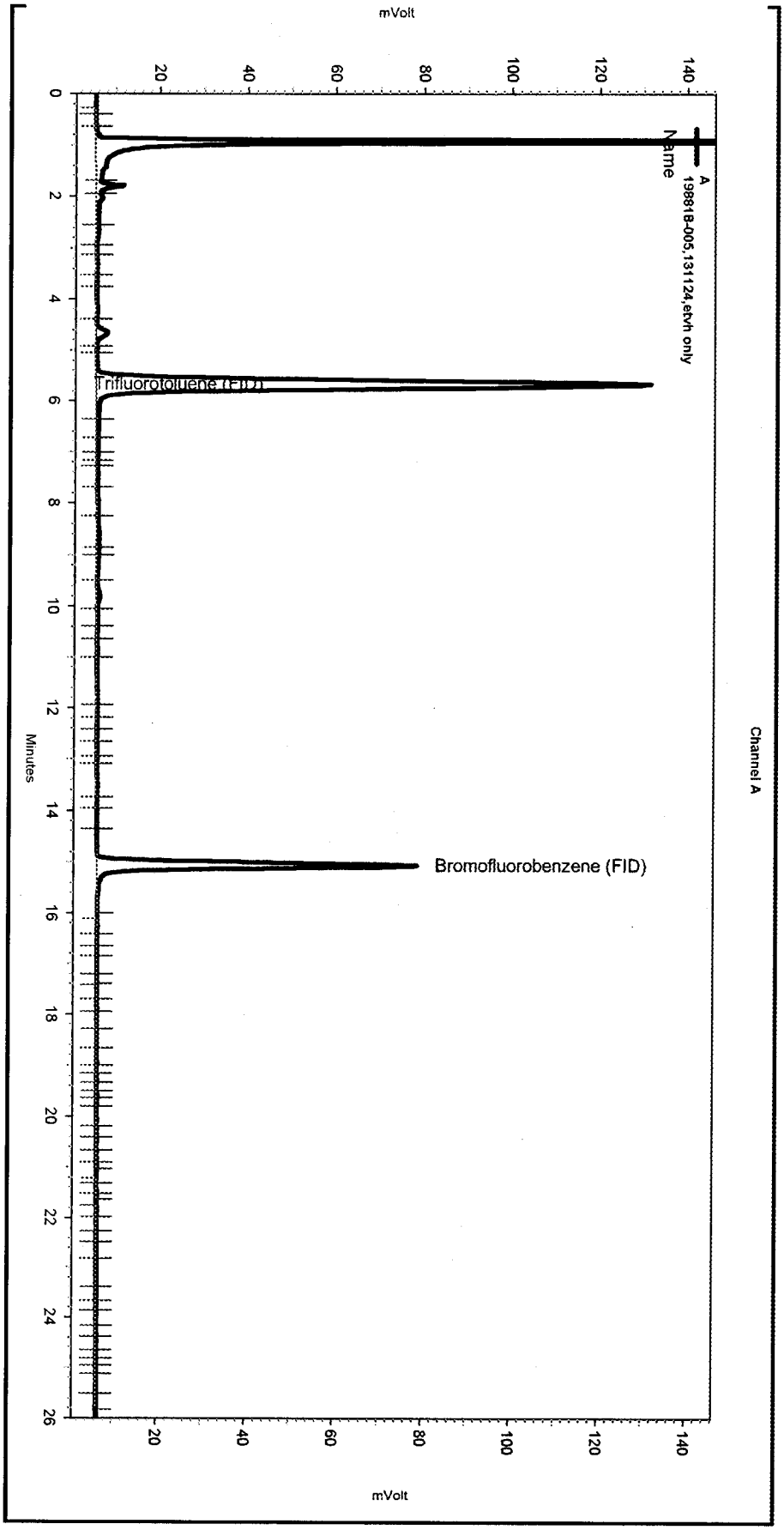
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.671	25.721	0
Yes	Split Peak	5.279	0	0
Yes	Split Peak	5.719	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq
Sample Name: **198818-005,131124,etvh only**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_018
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/30/2007 11:42:44 PM
Analysis Date: 11/1/2007 12:29:46 PM
Sample Amount: 4.83 Multiplier: 4.83
Vial & pH or Core ID: a



—< General Method Parameters >—

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

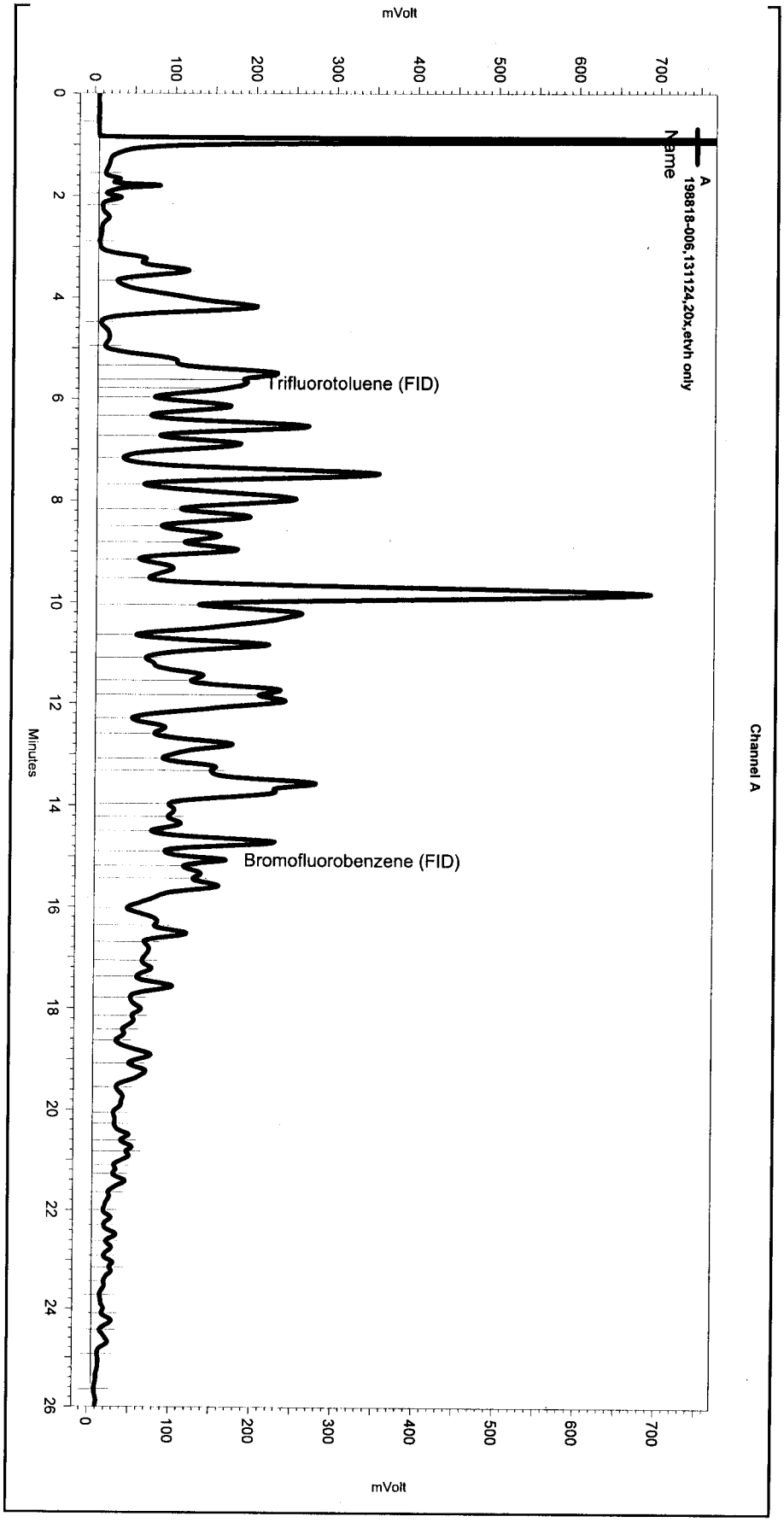
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq**
Sample Name: **198818-006,131124,20x,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\303_012**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/30/2007 8:03:06 PM
Analysis Date: 10/31/2007 12:07:23 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_012

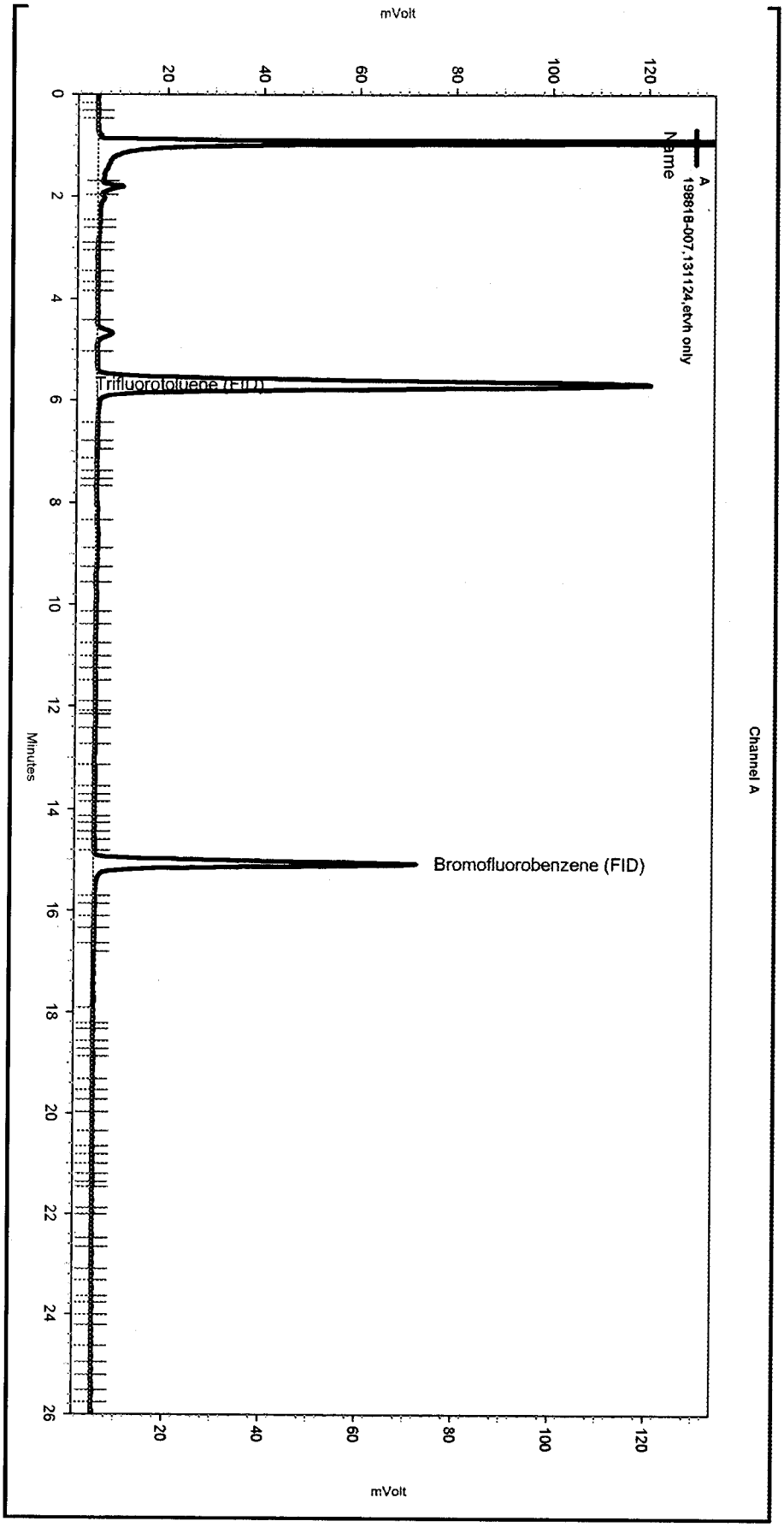
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.671	25.623	0
Yes	Split Peak	5.336	0	0
Yes	Split Peak	5.611	0	0
Yes	Split Peak	5.79	0	0

 Curtis & Tompkins Ltd.

: 00040

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq
Sample Name: **198818-007,131124,etvh only**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_022
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/31/2007 2:09:17 AM
Analysis Date: 11/1/2007 12:34:24 PM
Sample Amount: 3.12 Multiplier: 3.12
Vial & pH or Core ID: a



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

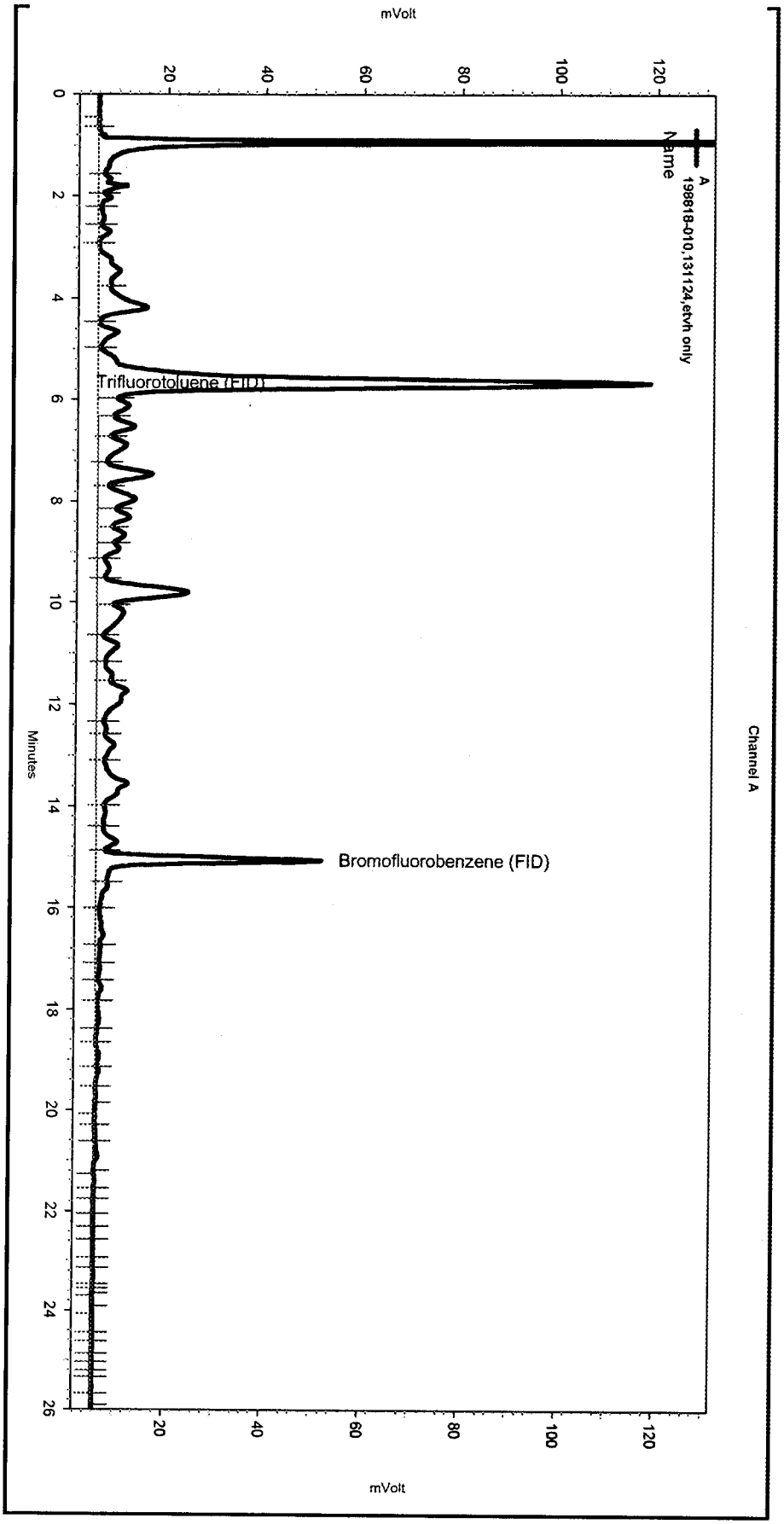
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq
Sample Name: **198818-010,131124,etvh only**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_034
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/31/2007 11:00:05 AM
Analysis Date: 11/5/2007 10:30:20 AM
Sample Amount: 6.22 Multiplier: 6.22
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

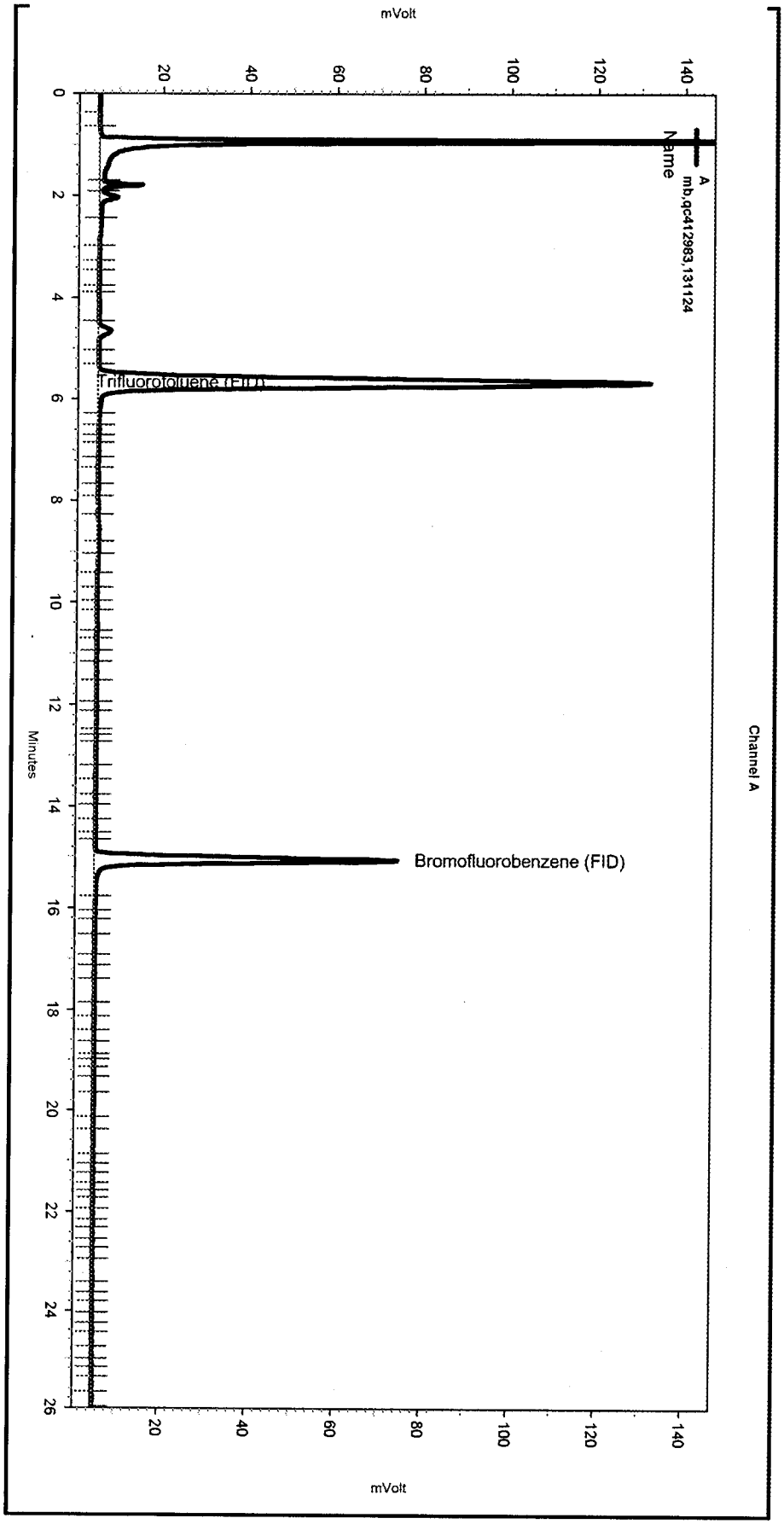
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_034

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq
Sample Name: **mb,qc412983,131124**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_008
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/30/2007 5:36:24 PM
Analysis Date: 11/1/2007 12:37:50 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

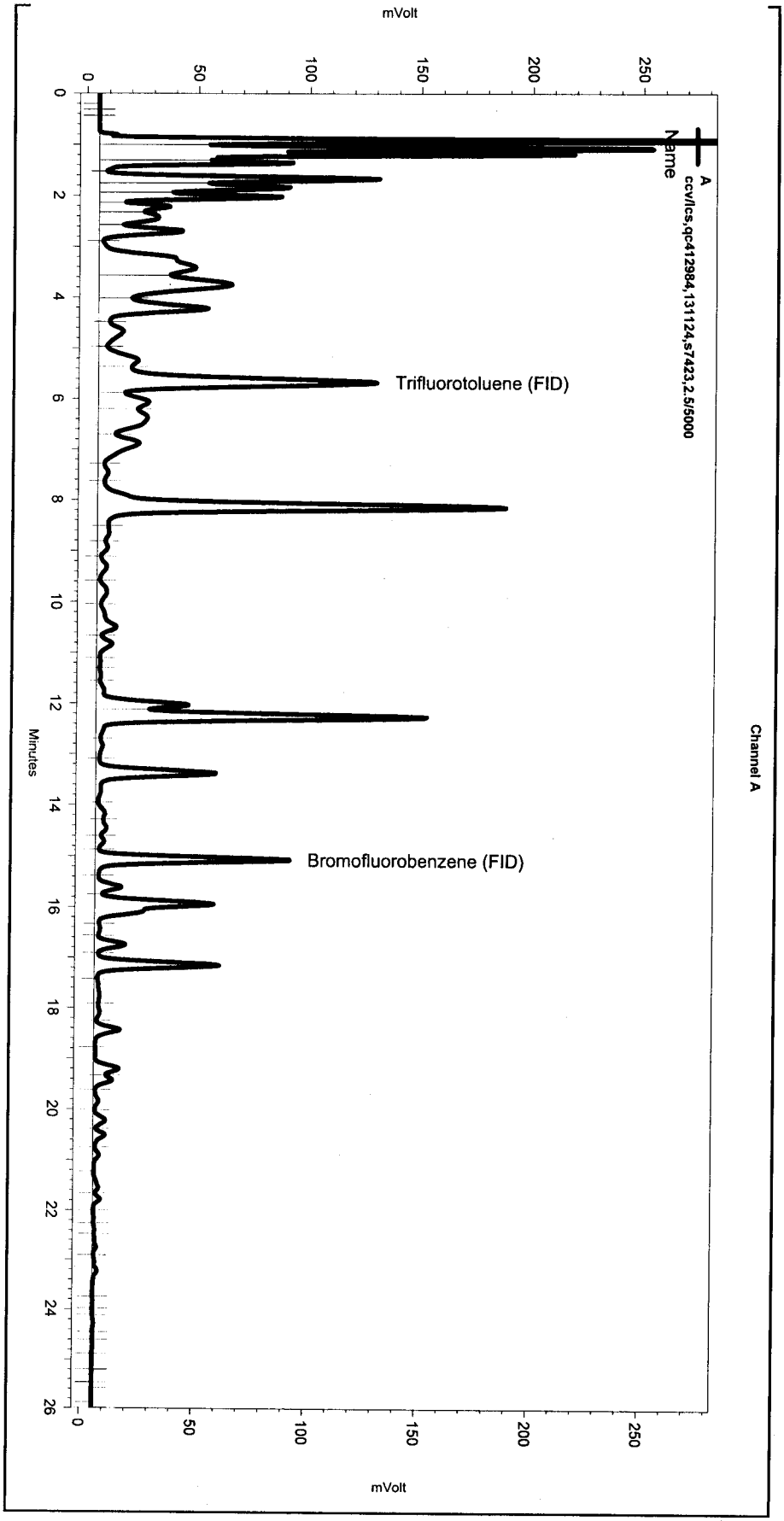
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\303.seq**
Sample Name: **ccv/lcs,qc412984,131124,s7423,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\303_004**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 10/30/2007 2:09:59 PM
Analysis Date: 10/31/2007 7:49:07 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\303_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC412984	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131124
Units:	mg/Kg	Analyzed:	10/30/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.591	92	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	131	65-135
Bromofluorobenzene (FID)	128	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX352[4.0]	Diln Fac:	25.00
MSS Lab ID:	198818-004	Batch#:	131124
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07
Basis:	as received	Analyzed:	10/31/07

Type: MS Lab ID: QC412985

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	905.2	250.0	1,079	69 * P	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	65-135
Bromofluorobenzene (FID)	301 *	65-135

Type: MSD Lab ID: QC412986

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	250.0	1,068	65 * P	75-125	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	301 *	65-135

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCVOA Soil: EPA 8015B

Inst : GC05
Calnum : 317259885003
Units : ng

Name : GC05 TVH 180
Date : 02-JUL-2007 17:37
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	180_031	317259885031	TVH 1	02-JUL-2007 17:37	S5937 (1000X), S6435 (5000X)
L2	180_032	317259885032	TVH 2	02-JUL-2007 18:13	S5936 (1000X), S6435 (5000X)
L3	180_033	317259885033	TVH 3	02-JUL-2007 18:50	S5935 (1000X), S6435 (5000X)
L4	180_034	317259885034	TVH 4	02-JUL-2007 19:26	S5934 (2000X), S6435 (5000X)
L5	180_035	317259885035	TVH 5	02-JUL-2007 20:03	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2535.6	2230.6	2005.8	2040.2	2161.4	AVRG		4.56E-4		2194.7	10	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	16	2500	2	10000	-9	25000	-7	50000	-2

Analyst: JCP Date: 07/03/07 Reviewer: CW Date: 07/06/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 GCVOA Soil
EPA 8015B

Inst : GC05 Name : GC05 TVH 180
Calnum : 317259885003 Cal Date : 02-JUL-2007

ICV 317259885037 (180_037 02-JUL-2007) stds: S6393 (1000X), S6435 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	2194.7	2157.9	10000	9832	ng	-2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 317425281001
Units : ng

Name : GC05 MBTXE/SURR 295
Date : 22-OCT-2007 22:51
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_020	317425281020	BTXE_1	22-OCT-2007 22:51	S7260 (1000X), S7273 (5000X)
L2	295_021	317425281021	MBTXE_2	22-OCT-2007 23:27	S7258 (1250X), S7273 (5000X)
L3	295_022	317425281022	MBTXE_3	23-OCT-2007 00:04	S7258 (500X), S7273 (5000X)
L4	295_023	317425281023	MBTXE_4	23-OCT-2007 00:40	S7258 (125X), S7273 (5000X)
L5	295_024	317425281024	MBTXE_5	23-OCT-2007 01:16	S7257 (1000X), S7273 (5000X)
L6	295_025	317425281025	MBTXE_6	23-OCT-2007 01:53	S7257 (500X), S7273 (5000X)
L7	295_026	317425281026	MBTXE_7	23-OCT-2007 02:29	S7257 (250X), S7273 (5000X)
L8	295_027	317425281027	MTBE_7	23-OCT-2007 03:06	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2937.8	2839.1	2874.0	2537.7	2705.4	2683.6	2828.5	2712.4	AVRG		3.62E-4		2764.8	5	0.995	20	
Bromofluorobenzene (FID)	A	1181.3	1175.8	1261.9	1102.5	1310.7	1362.7	1478.6	1228.9	AVRG		7.92E-4		1262.8	9	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	6	450.0	3	450.0	4	450.0	-8	450.0	-2	450.0	-3	450.0	2	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-6	450.0	-7	450.0	0	450.0	-13	450.0	4	450.0	8	450.0	17	450.0	-3

MJM 10/23/07 [Benzene C]: Fails high in ICV. Report analyte from Ch. B and Ch. C to be used as confirm only.

Analyst: LH Date: 10/24/07 Reviewer: MJM Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

317425281001

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198818 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC412984 IDF : 1.0
Seqnum : 317437059004.3 File : 303_004 Time : 30-OCT-2007 14:09
Standards: S7423 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	317259885003	02-JUL-2007	2194.7	2015.2	5000	4591	ng	-8	15	u
Trifluorotoluene (FID)	A	317425281001	22-OCT-2007	2764.8	3616.6	450.0	588.6	ng	**31**	15	c+ u
Bromofluorobenzene (FID)	A	317425281001	22-OCT-2007	1262.8	1620.8	450.0	577.6	ng	**28**	15	c+ u

ATL 10/31/07 [Bromofluorobenzene (FID) A]: Passes control limits. [general version]

ATL 10/31/07 [Trifluorotoluene (FID) A]: Passes control limits. [general version]

Analyst: MJM Date: 11/01/07 Reviewer: LH Date: 11/05/07

+=high bias c=CCV u=use

317437059004.3

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
Seqnum : 317437059019 File : 303_019 Time : 31-OCT-2007 00:19
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	317259885003	02-JUL-2007	2194.7	2082.1	15000	14230	ng	-5	15	
Trifluorotoluene (FID)	A	317425281001	22-OCT-2007	2764.8	3924.4	450.0	638.7	ng	**42**	15	c+
Bromofluorobenzene (FID)	A	317425281001	22-OCT-2007	1262.8	1914.9	450.0	682.4	ng	**52**	15	c+

ATL 10/31/07 : PID surrogates are not applicable.

ATL 10/31/07 [Bromofluorobenzene (FID) A]: Fails high due to coelution with standard.

ATL 10/31/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

Analyst: ATL Date: 10/31/07 Reviewer: LH Date: 11/01/07

+=high bias c=CCV

317437059019

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
Seqnum : 317437059027 File : 303_027 Time : 31-OCT-2007 05:12
Standards: S7423 (1000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	317259885003	02-JUL-2007	2194.7	2233.3	10000	10180	ng	2	15	
Trifluorotoluene (FID)	A	317425281001	22-OCT-2007	2764.8	3676.5	450.0	598.4	ng	**33**	15	c+
Bromofluorobenzene (FID)	A	317425281001	22-OCT-2007	1262.8	1784.4	450.0	635.9	ng	**41**	15	c+

ATL 10/31/07 : PID surrogates are not applicable.

ATL 10/31/07 [Bromofluorobenzene (FID) A]: Fails high due to coelution with standard.

ATL 10/31/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

Analyst: ATL Date: 10/31/07 Reviewer: LH Date: 11/01/07

+=high bias c=CCV

317437059027

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
Seqnum : 317437059039 File : 303_039 Time : 31-OCT-2007 16:15
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	317259885003	02-JUL-2007	2194.7	1959.0	15000	13390	ng	-11	15	
Trifluorotoluene (FID)	A	317425281001	22-OCT-2007	2764.8	3728.6	450.0	606.9	ng	**35**	15	c+
Bromofluorobenzene (FID)	A	317425281001	22-OCT-2007	1262.8	1777.1	450.0	633.3	ng	**41**	15	c+

MJM 10/31/07 : PID surrogates are not applicable.

MJM 10/31/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

MJM 11/01/07 [Bromofluorobenzene (FID) A]: Fails high due to coelution with standard.

Analyst: MJM Date: 10/31/07 Reviewer: LH Date: 11/01/07

+=high bias c=CCV

317437059039

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 317259885

Instrument : GC05
Method : EPA 8015B, EPA 8021B

Begun : 06/29/07 11:25
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	180_001	X	CMARK			06/29/07 11:25	1.0	1 2
002	180_002	X	CCV			06/29/07 12:01	1.0	3 2
003	180_003	X	CCV			06/29/07 12:38	1.0	4 2
004	180_004	X	IB			06/29/07 15:05	1.0	2
005	180_005	X	IB			06/29/07 15:41	1.0	2
006	180_006	X	CMARK			06/29/07 16:16	1.0	1 2
007	180_007	X	CCV			06/29/07 16:52	1.0	3 2
008	180_008	X	IB			06/29/07 17:27	1.0	2
009	180_009	IB	CALIB			06/29/07 18:02	1.0	2
010	180_010	ICAL	BTXE_1			06/29/07 18:38	1.0	5 2
011	180_011	ICAL	BTXE_2			06/29/07 19:13	1.0	6 2
012	180_012	ICAL	BTXE_3			06/29/07 19:49	1.0	6 2
013	180_013	ICAL	BTXE_4			06/29/07 20:24	1.0	6 2
014	180_014	ICAL	BTXE_5			06/29/07 21:00	1.0	7 2
015	180_015	ICAL	BTXE_6			06/29/07 21:35	1.0	7 2
016	180_016	ICAL	BTXE_7			06/29/07 22:11	1.0	7 2
017	180_017	ICAL	MTBE_7			06/29/07 22:46	1.0	8 2
018	180_018	X	IB			06/29/07 23:22	1.0	2
019	180_019	X	IB			07/02/07 08:54	1.0	2
020	180_020	X	ICV			07/02/07 09:32	1.0	9 2
021	180_021	ICV	MBTXE			07/02/07 10:25	1.0	9 2
022	180_022	X	IB			07/02/07 11:29	1.0	
023	180_023	IB	CALIB			07/02/07 12:06	1.0	
024	180_024	ICAL	TFT/BFB_1			07/02/07 12:42	1.0	10
025	180_025	ICAL	TFT/BFB_2			07/02/07 13:19	1.0	11
026	180_026	ICAL	TFT/BFB_3			07/02/07 13:55	1.0	12
027	180_027	ICAL	TFT/BFB_4			07/02/07 14:32	1.0	13
028	180_028	ICAL	TFT/BFB_5			07/02/07 15:08	1.0	14
029	180_029	X	IB			07/02/07 16:23	1.0	2
030	180_030	IB	CALIB			07/02/07 17:00	1.0	2
031	180_031	ICAL	TVH 1			07/02/07 17:37	1.0	15 2
032	180_032	ICAL	TVH 2			07/02/07 18:13	1.0	16 2
033	180_033	ICAL	TVH 3			07/02/07 18:50	1.0	17 2
034	180_034	ICAL	TVH 4			07/02/07 19:26	1.0	18 2
035	180_035	ICAL	TVH 5			07/02/07 20:03	1.0	18 2
036	180_036	X	IB			07/02/07 20:39	1.0	2
037	180_037	ICV	TVH			07/02/07 21:16	1.0	3 2
038	180_038	X	ICV			07/02/07 21:52	1.0	3 2
039	180_039	X	IB			07/02/07 22:29	1.0	2
040	180_040	CMARKER				07/02/07 23:05	1.0	1 2
041	180_041	IB	TEST			07/02/07 23:42	1.0	2

Analyst: JCP Date: 07/03/07 Reviewer: CW Date: 07/06/07

Standards used: 1=S6383 2=S6435 3=S6393 4=S5943 5=S6305 6=S6304 7=S6303 8=S6302 9=S6204 10=S6509 11=S6510 12=S6511 13=S6512 14=S6513 15=S5937 16=S5936 17=S5935 18=S5934

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 317425281

Instrument : GC05
Method : EPA 8015B, EPA 8021B

Begun : 10/22/07 08:01
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	295_001	X	IB			10/22/07 08:01	1.0	1
002	295_002	X	CMARK			10/22/07 08:38	1.0	2 1
003	295_003	X	CCV			10/22/07 09:14	1.0	3 1
004	295_004	CCV/LCS	QC411592	Water	130795	10/22/07 09:51	1.0	4 1
005	295_005	X	CCV			10/22/07 10:28	1.0	3 1
006	295_006	X	IB			10/22/07 13:46	1.0	1
007	295_007	BLANK	QC411591	Water	130795	10/22/07 14:23	1.0	1
008	295_008	MSS	198478-002	Water	130795	10/22/07 15:32	1.0	1
009	295_009	MS	QC411593	Water	130795	10/22/07 16:09	1.0	4 1
010	295_010	MSD	QC411594	Water	130795	10/22/07 16:45	1.0	4 1
011	295_011	SAMPLE	198456-006	Water	130795	10/22/07 17:22	1.0	1
012	295_012	SAMPLE	198559-001	Water	130795	10/22/07 17:58	1.0	1
013	295_013	SAMPLE	198560-001	Water	130795	10/22/07 18:35	1.0	1
014	295_014	SAMPLE	198560-002	Water	130795	10/22/07 19:11	1.0	1
015	295_015	CCV	TVH			10/22/07 19:48	1.0	4 1
016	295_016	X	CCV			10/22/07 20:24	1.0	4 1
017	295_017	X	CMARK			10/22/07 21:01	1.0	2 1
018	295_018	X	IB			10/22/07 21:37	1.0	1
019	295_019	IB	CALIB			10/22/07 22:14	1.0	1
020	295_020	ICAL	BTXE_1			10/22/07 22:51	1.0	5 1
021	295_021	ICAL	MBTXE_2			10/22/07 23:27	1.0	6 1
022	295_022	ICAL	MBTXE_3			10/23/07 00:04	1.0	6 1
023	295_023	ICAL	MBTXE_4			10/23/07 00:40	1.0	6 1
024	295_024	ICAL	MBTXE_5			10/23/07 01:16	1.0	7 1
025	295_025	ICAL	MBTXE_6			10/23/07 01:53	1.0	7 1
026	295_026	ICAL	MBTXE_7			10/23/07 02:29	1.0	7 1
027	295_027	ICAL	MTBE_7			10/23/07 03:06	1.0	8 1
028	295_028	X	IB			10/23/07 03:43	1.0	1
029	295_029	X	ICV			10/23/07 04:19	1.0	9 1
030	295_030	ICV	MBTXE			10/23/07 04:56	1.0	9 1

Analyst: PDM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Standards used: 1=S7273 2=S6725 3=S6970 4=S7423 5=S7260 6=S7258 7=S7257 8=S6302 9=S7263

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 317437059

Instrument : GC05 Begun : 10/30/07 12:19
Method : EPA 8015B, EPA 8021B SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	303_001	X	CMARK			10/30/07 12:19	1.0	1 2	
002	303_002	X	CCV			10/30/07 12:56	1.0	3 2	
003	303_003	X	CCV			10/30/07 13:33	1.0	3 2	
004	303_004	CCV/LCS	QC412984	Soil	131124	10/30/07 14:09	1.0	4 2	
005	303_005	X	CCV			10/30/07 15:20	1.0	5 2	
006	303_006	X	CCV			10/30/07 16:23	1.0	3 2	
007	303_007	X	IB			10/30/07 16:59	1.0	2	
008	303_008	BLANK	QC412983	Soil	131124	10/30/07 17:36	1.0	2	
009	303_009	SAMPLE	198818-001	Soil	131124	10/30/07 18:13	20.0	2	3:GAS:7-12=71000
010	303_010	SAMPLE	198818-002	Soil	131124	10/30/07 18:49	20.0	2	3:GAS:7-12=70000
011	303_011	MSS	198818-004	Soil	131124	10/30/07 19:26	20.0	2	
012	303_012	SAMPLE	198818-006	Soil	131124	10/30/07 20:03	20.0	2	
013	303_013	MS	QC412985	Soil	131124	10/30/07 20:39	20.0	4 2	1:GAS:7-12=56000
014	303_014	MSD	QC412986	Soil	131124	10/30/07 21:16	20.0	4 2	2:GAS:7-12=57000
015	303_015	X	IB			10/30/07 21:52	1.0	2	
016	303_016	X	MEOHMB			10/30/07 22:29	5.0	2	
017	303_017	SAMPLE	198818-003	Soil	131124	10/30/07 23:06	1.0	2	
018	303_018	SAMPLE	198818-005	Soil	131124	10/30/07 23:42	1.0	2	
019	303_019	CCV	TVH			10/31/07 00:19	1.0	4 2	
020	303_020	X	CCV			10/31/07 00:56	1.0	4 2	
021	303_021	X	CMARK			10/31/07 01:32	1.0	1 2	
022	303_022	SAMPLE	198818-007	Soil	131124	10/31/07 02:09	1.0	2	
023	303_023	SAMPLE	198811-001	Soil	131124	10/31/07 02:45	1.0	2	
024	303_024	SAMPLE	198811-002	Soil	131124	10/31/07 03:22	1.0	2	
025	303_025	SAMPLE	198811-003	Soil	131124	10/31/07 03:58	1.0	2	
026	303_026	SAMPLE	198818-010	Soil	131124	10/31/07 04:35	1.0	2	
027	303_027	CCV	TVH			10/31/07 05:12	1.0	4 2	
028	303_028	X	CCV			10/31/07 05:48	1.0	4 2	
029	303_029	X	CMARK			10/31/07 06:25	1.0	1 2	
030	303_030	SAMPLE	198818-001	Soil	131124	10/31/07 08:33	25.0	2	2:GAS:7-12=54000
031	303_031	SAMPLE	198818-002	Soil	131124	10/31/07 09:10	25.0	2	2:GAS:7-12=53000
032	303_032	MS	QC412985	Soil	131124	10/31/07 09:47	25.0	4 2	
033	303_033	MSD	QC412986	Soil	131124	10/31/07 10:23	25.0	4 2	
034	303_034	SAMPLE	198818-010	Soil	131124	10/31/07 11:00	1.0	2	
035	303_035	SAMPLE	198818-001	Soil	131124	10/31/07 13:19	50.0	2	
036	303_036	SAMPLE	198818-002	Soil	131124	10/31/07 13:56	50.0	2	
037	303_037	MS	QC412985	Soil	131124	10/31/07 14:32	25.0	4 2	
038	303_038	MSD	QC412986	Soil	131124	10/31/07 15:09	25.0	4 2	
039	303_039	CCV	TVH			10/31/07 16:15	1.0	4 2	

MJM 11/01/07 : Sample 198817-001 aliased to 198818-010. See job sheet for login change form.

Analyst: ATL Date: 10/31/07 Reviewer: _____ Date: _____

Standards used: 1=S6725 2=S7356 3=S6970 4=S7423 5=S7564

REPORTING SUMMARY FOR 198818 GCVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
198818-001	GC05	10/30/07 18:13	20.0				
198818-001	GC05	10/31/07 08:33	25.0				
198818-001	GC05	10/31/07 13:19	50.0	+	+	+	
198818-002	GC05	10/30/07 18:49	20.0				
198818-002	GC05	10/31/07 09:10	25.0				
198818-002	GC05	10/31/07 13:56	50.0	+	+	+	
198818-003	GC05	10/30/07 23:06	1.0	+	+	+	
198818-004	GC05	10/30/07 19:26	20.0	+	+	+	
198818-005	GC05	10/30/07 23:42	1.0	+	+	+	
198818-006	GC05	10/30/07 20:03	20.0	+	+	+	
198818-007	GC05	10/31/07 02:09	1.0	+	+	+	
198818-010	GC05	10/31/07 04:35	1.0				
198818-010	GC05	10/31/07 11:00	1.0	+	+	+	
QC412983	GC05	10/30/07 17:36	1.0	+	+	+	
QC412984	GC05	10/30/07 14:09	1.0	+	+	+	
QC412985	GC05	10/30/07 20:39	20.0				
QC412985	GC05	10/31/07 09:47	25.0				
QC412985	GC05	10/31/07 14:32	25.0	+	+	+	
QC412986	GC05	10/30/07 21:16	20.0				
QC412986	GC05	10/31/07 10:23	25.0				
QC412986	GC05	10/31/07 15:09	25.0	+	+	+	

Project TVH/BTXE SOIL PREP LOG BK2583

Continued from Page

SAMPLE ID / CORE ID / JAR	WEIGHT (g)	COMP (S)	NaHSO4 (S)	COMMENTS
MS: 198753-001 A	1.00	NO	NO	MSM 10/26/07
MSD: ↓ ↓	1.02	↓		
198729-003 COMP	1.00	YES	↓	↓ comp 1A, 2A @ 50g per KML
198699-001 A	1.03	NO	NO	MSM 10/29/07
↓ -002	1.03			
198775-001	1.04			
MS ↓	1.01			
MSD ↓	1.01			
-002	1.02			
-003	1.03			
-005	1.00			
-006	1.05			
-007	0.99			
198759-001 D	5.24	↓		
198788-005 COMP	0.97	YES	↓	↓ comp 1A to 4A @ 5.0g each
198811-001 A	0.94	NO	NO	MSM 10/30/07
-002	1.03			
↓ -003	1.02	↓	↓	↓
~~198817-001~~	~~0.97~~			
MS ↓	1.02			
MSD ↓	1.03			not used. MSM 10/30/07
MS: 198811-003 A	1.03	NO	NO	MSM 10/30/07
MSD: ↓ ↓ ↓	0.94			
198817-001 B	4.75			
198818-003 A	3.54			
↓ -005	4.83			
↓ -007 ↓	3.12	↓	↓	↓
198817-001 C	6.22	NO	NO	TAN 10/31/07

Continued on Page

Read and Understood By

MHA — Signed

10/26/07 — Date

Signed

Date

PROJECT MeOH EXTRACT LOG

Notebook No. BK2246

Continued From Page

DATE / ANALYST	SAMPLE ID / CORE ID / JAR	WEIGHT (G)	MeOH (mL)	COMMENTS
10/22/07 MJM	MeOH MB	—	5.0	BJ CS507
↓	198548-011 A	5.00	↓	↓
10/23/07 MJM	MeOH MB	—	5.0	BJ CS 507
↓	198615-001 A	5.00	↓	↓
	-002 ↓	5.02		
10/25/07 PAM	MeOH MB	—	5.0	~~BJ CS 507~~ PAM 10/25/07 BJ CR013
↓	198692-001A	4.91	↓	↓
10/30/07 MJM	MeOH MB		5.0	BJ CR013
↓	198818-001 A	6.00	6.0	
	-002	5.67	~~6.7~~ 5.7	CP 10/31
	-004	5.24	5.2	
↓	-006 ↓	5.98	6.0	

Continued on Page

Read and Understood By

Signed — Date: 10/23/07

Signed — Date

TPH-EXTRACTABLE HYDROCARBONS IN WATER

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX353RBEX354	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Prepared:	10/31/07
Diln Fac:	1.000	Analyzed:	11/01/07
Batch#:	131162		

Type: SAMPLE
Lab ID: 198818-008

Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	50	18
Fuel Oil C24-C36	ND	300	85

Surrogate	%REC	Limits
Hexacosane	72	65-135

Type: BLANK
Lab ID: QC413132

Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	50	18
Fuel Oil C24-C36	ND	300	85

Surrogate	%REC	Limits
Hexacosane	80	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413133	Batch#:	131162
Matrix:	Water	Prepared:	10/31/07
Units:	ug/L	Analyzed:	11/01/07

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,159	86	65-135

Surrogate	%REC	Limits
Hexacosane	80	65-135

60.0

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 167416763001
Units : mg/L

Name : DSL
Date : 18-OCT-2007 02:40
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b017	167416763017	DSL_10	18-OCT-2007 02:40	S6612
L2	289b018	167416763018	DSL_100	18-OCT-2007 03:07	S6613
L3	289b019	167416763019	DSL_500	18-OCT-2007 03:35	S6614
L4	289b020	167416763020	DSL_1000	18-OCT-2007 04:03	S6615
L5	289b021	167416763021	DSL_5000	18-OCT-2007 04:31	S6611
L6	289b022	167416763022	DSL_7500	18-OCT-2007 04:58	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	23294	26355	25904	26080	28152	26566	AVRG		3.84E-5		26059	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-11	100.0	1	500.0	-1	1000	0	5000	8	7500	2

Analyst: ATL Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 167416763001
Name : DSL
Cal Date : 18-OCT-2007

ICV 167416763024 (289b024 18-OCT-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	26059	27062	500.0	519.3	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 167416763002
Units : mg/L

Name : mo 5pt.
Date : 18-OCT-2007 07:18
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b027	167416763027	MO_50	18-OCT-2007 07:18	S6848
L2	289b028	167416763028	MO_250	18-OCT-2007 07:46	S6849
L3	289b029	167416763029	MO_500	18-OCT-2007 08:14	S6850
L4	289b030	167416763030	MO_1000	18-OCT-2007 08:42	S6851
L5	289b031	167416763031	MO_5000	18-OCT-2007 09:10	S6846

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	17688	20401	19302	18899	14749	AVRG		5.49E-5		18208	12	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	12	500.0	6	1000	4	5000	-19

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 167416763003
Units : mg/L

Name : hex
Date : 18-OCT-2007 11:02
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b035	167416763035	HEX_5	18-OCT-2007 11:02	S7036
L2	289b036	167416763036	HEX_10	18-OCT-2007 11:30	S7037
L3	289b037	167416763037	HEX_25	18-OCT-2007 11:57	S7038
L4	289b038	167416763038	HEX_50	18-OCT-2007 12:25	S7039
L5	289b039	167416763039	HEX_100	18-OCT-2007 12:53	S7040
L6	289b040	167416763040	HEX_200	18-OCT-2007 13:21	S7041

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	29546	29340	28793	29036	28799	28229	AVRG		3.45E-5		28957	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	2	10.00	1	25.00	-1	50.00	0	100.0	-1	200.0	-3

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 177377811001
Units : mg/L

Name : hex 5pt.
Date : 19-SEP-2007 19:51
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	262a024	177377811024	HEX_5	19-SEP-2007 19:51	S7036
L2	262a025	177377811025	HEX_10	19-SEP-2007 20:18	S7037
L3	262a026	177377811026	HEX_25	19-SEP-2007 20:46	S7038
L4	262a027	177377811027	HEX_50	19-SEP-2007 21:13	S7039
L5	262a028	177377811028	HEX_100	19-SEP-2007 21:41	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	90416	88456	87718	89582	89186	AVRG		1.12E-5		89072	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	-2	50.00	1	100.0	0

Analyst: ZA Date: 09/19/07 Reviewer: LH Date: 09/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 177377811002
Units : mg/L

Name : dsl
Date : 21-SEP-2007 03:01
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	262a061	177377811061	DSL_10	21-SEP-2007 03:01	S6612
L2	262a062	177377811062	DSL_100	21-SEP-2007 03:28	S6613
L3	262a063	177377811063	DSL_500	21-SEP-2007 03:55	S6614
L4	262a064	177377811064	DSL_1000	21-SEP-2007 04:23	S6615
L5	262a065	177377811065	DSL_5000	21-SEP-2007 04:51	S6611
L6	262a066	177377811066	DSL_7500	21-SEP-2007 05:18	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	63894	76546	72415	72572	72480	73307	AVRG		1.39E-5		71869	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-11	100.0	7	500.0	1	1000	1	5000	1	7500	2

Analyst: JDG Date: 09/21/07 Reviewer: CW Date: 09/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 177377811002
Name : dsl
Cal Date : 21-SEP-2007

ICV 177377811068 (262a068 21-SEP-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	71869	71919	500.0	500.4	mg/L	0	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 167439703014 File : 305b014 Time : 01-NOV-2007 13:09
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	26347	1000	1011	mg/L	1	15	
Hexacosane	167416763003	18-OCT-2007	28957	27393	50.00	47.30	mg/L	-5	15	

Analyst: JDG Date: 11/01/07 Reviewer: ZA Date: 11/01/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Water
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 167439703015 File : 305b015 Time : 01-NOV-2007 13:37
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17422	500.0	478.4	mg/L	-4	15	
Hexacosane	167416763003	18-OCT-2007	28957	27800	50.00	48.00	mg/L	-4	15	

Analyst: JDG Date: 11/01/07 Reviewer: ATL Date: 11/02/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL_250 IDF : 1.0
Seqnum : 167439703026 File : 305b026 Time : 01-NOV-2007 19:31
Standards: S6807

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	26547	250.0	254.7	mg/L	2	15	
Hexacosane	167416763003	18-OCT-2007	28957	26508	50.00	45.77	mg/L	-8	15	

Analyst: ZA Date: 11/02/07 Reviewer: ATL Date: 11/02/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Water
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 167439703028 File : 305b028 Time : 02-NOV-2007 00:22
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17967	500.0	493.4	mg/L	-1	15	
Hexacosane	167416763003	18-OCT-2007	28957	28199	50.00	48.69	mg/L	-3	15	

Analyst: ZA Date: 11/02/07 Reviewer: LH Date: 11/02/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177438657051.1 File : 304a051 Time : 01-NOV-2007 15:30
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	55901	500.0	518.9	mg/L	4	15	
Hexacosane	177377811001	19-SEP-2007	89072	91442	50.00	51.33	mg/L	3	15	

Analyst: JDG Date: 11/01/07 Reviewer: LH Date: 11/01/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 177438657055 File : 304a055 Time : 01-NOV-2007 17:20
Standards: S6808

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177377811002	21-SEP-2007	71869	74390	500.0	517.5	mg/L	4	15	
Hexacosane	177377811001	19-SEP-2007	89072	81395	50.00	45.69	mg/L	-9	15	

Analyst: CP Date: 11/02/07 Reviewer: LH Date: 11/02/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177438657069 File : 304a069 Time : 01-NOV-2007 23:49
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	49361	500.0	458.2	mg/L	-8	15	
Hexacosane	177377811001	19-SEP-2007	89072	80297	50.00	45.07	mg/L	-10	15	

CP 11/02/07 : Not in use for c28-36 or c28-40.

ZA: 11/02/07 * CP: 11/02/07 LH: 11/02/07

177438657069

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 177438657072 File : 304a072 Time : 02-NOV-2007 01:12
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177377811002	21-SEP-2007	71869	71243	1000	991.3	mg/L	-1	15	
Hexacosane	177377811001	19-SEP-2007	89072	75898	50.00	42.60	mg/L	-15	15	

ZA: 11/02/07 * CP: 11/02/07 LH: 11/02/07

177438657072

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167416763

Instrument : GC15B
Method : EPA 8015B

Begun : 10/16/07 10:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	289b001	X	PRIMER			10/16/07 10:03	1.0	
002	289b002	X	IB			10/16/07 10:30	1.0	
003	289b003	X	CMARKER			10/16/07 10:58	1.0	1
004	289b004	CCV	DSL_250			10/16/07 11:26	1.0	2
005	289b005	CCV	MO_500			10/16/07 11:53	1.0	3
006	289b006	CCV	DSL_250			10/16/07 12:47	1.0	2
007	289b007	X	IB			10/17/07 14:25	1.0	
009	289b009	X	IB			10/17/07 16:54	1.0	
010	289b010	X	IB			10/17/07 17:22	1.0	
011	289b011	CMARKER	C10-C50			10/17/07 17:50	1.0	1
012	289b012	CCV	DSL_500			10/17/07 18:17	1.0	4
013	289b013	CCV	MO_500			10/17/07 18:45	1.0	3
014	289b014	CCV	OTP_50			10/17/07 19:12	1.0	5
015	289b015	X	IB			10/18/07 01:44	1.0	
016	289b016	IB	CALIB			10/18/07 02:12	1.0	
017	289b017	ICAL	DSL_10			10/18/07 02:40	1.0	6
018	289b018	ICAL	DSL_100			10/18/07 03:07	1.0	7
019	289b019	ICAL	DSL_500			10/18/07 03:35	1.0	8
020	289b020	ICAL	DSL_1000			10/18/07 04:03	1.0	9
021	289b021	ICAL	DSL_5000			10/18/07 04:31	1.0	10
022	289b022	ICAL	DSL_7500			10/18/07 04:58	1.0	11
023	289b023	IB	CALIB			10/18/07 05:26	1.0	
024	289b024	ICV	DSL_500			10/18/07 05:54	10.0	12
025	289b025	X	ICV			10/18/07 06:22	1.0	12
026	289b026	IB	CALIB			10/18/07 06:50	1.0	
027	289b027	ICAL	MO_50			10/18/07 07:18	1.0	13
028	289b028	ICAL	MO_250			10/18/07 07:46	1.0	14
029	289b029	ICAL	MO_500			10/18/07 08:14	1.0	15
030	289b030	ICAL	MO_1000			10/18/07 08:42	1.0	16
031	289b031	ICAL	MO_5000			10/18/07 09:10	1.0	17
032	289b032	ICAL	MO_7500			10/18/07 09:38	1.0	18
033	289b033	IB	CALIB			10/18/07 10:06	1.0	
034	289b034	IB	CALIB			10/18/07 10:34	1.0	
035	289b035	ICAL	HEX_5			10/18/07 11:02	1.0	19
036	289b036	ICAL	HEX_10			10/18/07 11:30	1.0	20
037	289b037	ICAL	HEX_25			10/18/07 11:57	1.0	21
038	289b038	ICAL	HEX_50			10/18/07 12:25	1.0	22
039	289b039	ICAL	HEX_100			10/18/07 12:53	1.0	23
040	289b040	ICAL	HEX_200			10/18/07 13:21	1.0	24
041	289b041	IB	CALIB			10/18/07 13:48	1.0	
042	289b042	ICAL	OTP_5			10/18/07 14:16	1.0	25
043	289b043	ICAL	OTP_10			10/18/07 14:44	1.0	26
044	289b044	ICAL	OTP_25			10/18/07 15:12	1.0	27
045	289b045	ICAL	OTP_50			10/18/07 15:39	1.0	28
046	289b046	ICAL	OTP_100			10/18/07 16:07	1.0	29
047	289b047	ICAL	OTP_200			10/18/07 16:34	1.0	30
048	289b048	IB	CALIB			10/18/07 17:02	1.0	

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Standards used: 1=S6952 2=S6807 3=S7310 4=S6808 5=S6922 6=S6612 7=S6613 8=S6614 9=S6615 10=S6611 11=S6616 12=S6617 13=S6848 14=S6849 15=S6850 16=S6851 17=S6846 18=S6847 19=S7036 20=S7037 21=S7038 22=S7039 23=S7040 24=S7041 25=S6397 26=S6398 27=S6399 28=S6400 29=S6401 30=S6402

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167439703

Instrument : GC15B
Method : EPA 8015B

Begun : 11/01/07 08:23
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
004	305b004	X	CMARKER				11/01/07 08:23	1.0	1
005	305b005	CCV	DSL_500				11/01/07 08:51	1.0	2
006	305b006	CCV	MO_500				11/01/07 09:19	1.0	3
007	305b007	CCV	OTP_50				11/01/07 09:47	1.0	4
008	305b008	SAMPLE	198688-014		Water	131125	11/01/07 10:14	20.0	
009	305b009	SAMPLE	198688-015		Water	131125	11/01/07 10:42	400.0	
010	305b010	SAMPLE	198672-002		Soil	131086	11/01/07 11:14	10.0	
011	305b011	SAMPLE	198490-002		Water	131108	11/01/07 11:42	10.0	
012	305b012	SAMPLE	198620-020		Water	131030	11/01/07 12:13	1.0	
013	305b013	SAMPLE	198620-024		Water	131030	11/01/07 12:41	1.0	
014	305b014	CCV	DSL_1000				11/01/07 13:09	1.0	5
015	305b015	CCV	MO_500				11/01/07 13:37	1.0	3
016	305b016	CCV	OTP_50				11/01/07 14:05	1.0	4
017	305b017	SAMPLE	198618-002	S	Water	131162	11/01/07 15:17	1.0	
018	305b018	SAMPLE	198618-003	S	Water	131162	11/01/07 15:45	1.0	
019	305b019	X	198618-004	S		131162	11/01/07 16:13	1.0	
020	305b020	SAMPLE	198618-005	S	Water	131162	11/01/07 16:41	1.0	
021	305b021	SAMPLE	198818-008	S	Water	131162	11/01/07 17:12	1.0	
022	305b022	SAMPLE	198763-001	S	Water	131162	11/01/07 17:39	1.0	
023	305b023	SAMPLE	198746-001		Water	131162	11/01/07 18:07	1.0	
024	305b024	X	IB				11/01/07 18:35	1.0	
025	305b025	BLANK	QC413132	S	Water	131162	11/01/07 19:03	1.0	
026	305b026	CCV	DSL_250				11/01/07 19:31	1.0	6
027	305b027	X	IB				11/01/07 23:54	1.0	
028	305b028	CCV	MO_500				11/02/07 00:22	1.0	3
029	305b029	X	CMARKER				11/02/07 00:50	1.0	1
030	305b030	SAMPLE	198767-001	S	Soil	131205	11/02/07 01:18	1.0	
031	305b031	SAMPLE	198767-002	S	Soil	131205	11/02/07 01:45	1.0	
032	305b032	SAMPLE	198767-003	S	Soil	131205	11/02/07 02:13	1.0	
033	305b033	SAMPLE	198767-004	S	Soil	131205	11/02/07 02:40	1.0	
034	305b034	SAMPLE	198767-006	S	Soil	131205	11/02/07 03:08	1.0	
035	305b035	SAMPLE	198767-007	S	Soil	131205	11/02/07 03:36	1.0	
036	305b036	SAMPLE	198767-008	S	Soil	131205	11/02/07 04:04	1.0	
037	305b037	SAMPLE	198767-009	S	Soil	131205	11/02/07 04:32	1.0	
038	305b038	SAMPLE	198767-011	S	Soil	131205	11/02/07 04:59	1.0	
039	305b039	X	IB				11/02/07 05:27	1.0	
040	305b040	SAMPLE	198767-010	S	Soil	131205	11/02/07 05:55	1.0	
041	305b041	X	CMARKER				11/02/07 06:23	1.0	1
042	305b042	CCV	DSL_500				11/02/07 06:51	1.0	7
043	305b043	CCV	MO_500				11/02/07 07:19	1.0	3
044	305b044	CCV	OTP_50				11/02/07 08:22	1.0	4
045	305b045	MSS	198620-019		Water	131030	11/02/07 08:50	1.0	
046	305b046	MS	QC412586		Water	131030	11/02/07 09:18	1.0	
047	305b047	MSD	QC412587		Water	131030	11/02/07 09:46	1.0	
048	305b048	SAMPLE	198620-022		Water	131030	11/02/07 10:40	1.0	
049	305b049	SAMPLE	198620-030		Water	131030	11/02/07 11:08	1.0	
050	305b050	SAMPLE	198620-031		Water	131030	11/02/07 11:36	1.0	
051	305b051	SAMPLE	198620-009		Water	130952	11/02/07 12:03	1.0	
052	305b052	SAMPLE	198620-038		Water	131079	11/02/07 12:31	1.0	
053	305b053	SAMPLE	198620-018		Water	131030	11/02/07 12:59	1.0	
054	305b054	CCV	DSL_1000				11/02/07 13:27	1.0	5
055	305b055	CCV	MO_500				11/02/07 13:55	1.0	3

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167439703

Instrument : GC15B
Method : EPA 8015B

Begun : 11/01/07 08:23
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
056	305b056	CCV	OTP_50				11/02/07 14:23	1.0	4	

Standards used: 1=S6952 2=S6808 3=S7310 4=S6922 5=S6809 6=S6807 7=S7541

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	262a001	X	PRIMER				09/19/07 08:51	1.0		
002	262a002	X	IB				09/19/07 09:18	1.0		
003	262a003	XCMARKER	C10-C50				09/19/07 09:46	1.0	1	
005	262a005	X	IB				09/19/07 11:09	1.0		
006	262a006	XCMARKER	C10-C50				09/19/07 11:36	1.0	1	
007	262a007	CCV	DSL_500				09/19/07 12:04	1.0	2	
008	262a008	CCV	MO_500				09/19/07 12:31	1.0	3	
009	262a009	CCV	OTP_50				09/19/07 12:58	1.0	4	
010	262a010	SAMPLE	197670-001		Soil	129574	09/19/07 13:26	1.0		
011	262a011	SAMPLE	197670-002		Soil	129574	09/19/07 13:54	1.0		
012	262a012	SAMPLE	197670-003		Soil	129574	09/19/07 14:21	1.0		
013	262a013	SAMPLE	197670-004		Soil	129574	09/19/07 14:48	1.0		
014	262a014	SAMPLE	197670-005		Soil	129574	09/19/07 15:16	1.0		
015	262a015	SAMPLE	197670-006		Soil	129574	09/19/07 15:44	1.0		
016	262a016	SAMPLE	197670-007		Soil	129574	09/19/07 16:11	1.0		
017	262a017	SAMPLE	197670-008		Soil	129574	09/19/07 16:38	1.0		
018	262a018	SAMPLE	197670-009		Soil	129574	09/19/07 17:06	1.0		
019	262a019	SAMPLE	197670-010		Soil	129574	09/19/07 17:33	1.0		
020	262a020	CCV	DSL_1000				09/19/07 18:00	1.0	5	
021	262a021	CCV	MO_500				09/19/07 18:28	1.0	3	
022	262a022	CCV	DSL_1000				09/19/07 18:55	1.0	5	
023	262a023	IB	CALIB				09/19/07 19:23	1.0		
024	262a024	ICAL	HEX_5				09/19/07 19:51	1.0	6	
025	262a025	ICAL	HEX_10				09/19/07 20:18	1.0	7	
026	262a026	ICAL	HEX_25				09/19/07 20:46	1.0	8	
027	262a027	ICAL	HEX_50				09/19/07 21:13	1.0	9	
028	262a028	ICAL	HEX_100				09/19/07 21:41	1.0	10	
029	262a029	X	IB				09/19/07 22:08	1.0		
030	262a030	X	CMARKER				09/19/07 22:36	1.0	1	
031	262a031	CCV	DSL_250				09/19/07 23:03	1.0	11	
032	262a032	CCV	MO_500				09/19/07 23:31	1.0	3	
033	262a033	X	IB				09/20/07 00:02	1.0		
034	262a034	X	TANKCHK				09/20/07 00:29	1.0		
035	262a035	X	TANKCHK				09/20/07 00:56	1.0		
036	262a036	SAMPLE	197624-001		Water	129615	09/20/07 01:24	1.0		
037	262a037	XCMARKER	C10-C50				09/20/07 01:51	1.0	1	
038	262a038	CCV	DSL_500				09/20/07 02:18	1.0	2	
039	262a039	CCV	MO_500				09/20/07 02:46	1.0	3	
040	262a040	X	CCV				09/20/07 03:13	1.0	2	
041	262a041	X	CCV				09/20/07 03:41	1.0	3	
042	262a042	X	IB				09/20/07 08:18	1.0		
043	262a043	X	IB				09/20/07 08:45	1.0		
044	262a044	SAMPLE	197668-024	S	Soil	129593	09/20/07 09:13	10.0		
045	262a045	LCS	QC406929	S	Soil	129661	09/20/07 09:40	1.0		
046	262a046	BLANK	QC406928	S	Soil	129661	09/20/07 10:08	1.0		
047	262a047	SAMPLE	197557-001	S	Soil	129661	09/20/07 10:36	1.0		2:BUNKC:12-40=6200
048	262a048	SAMPLE	197557-019	S	Soil	129661	09/20/07 11:07	1.0		
049	262a049	X	IB				09/20/07 11:34	1.0		
050	262a050	SAMPLE	197557-015	S	Soil	129661	09/20/07 12:02	1.0		
051	262a051	CCV	DSL_1000				09/20/07 12:29	1.0	5	
052	262a052	X					09/20/07 12:57	1.0	3	
053	262a053	CCV	MO_500				09/20/07 13:26	1.0	3	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
054	262a054	SAMPLE	197557-017	S	Soil	129532	09/20/07 14:25	1.0		
055	262a055	CCV	DSL_250				09/20/07 14:55	1.0	11	
056	262a056	CCV	MO_500				09/20/07 15:23	1.0	3	
057	262a057	CCV	DSL_250				09/20/07 15:53	1.0	11	
058	262a058	X	IB				09/21/07 01:38	1.0		
059	262a059	X	CMARKER				09/21/07 02:06	1.0	1	
060	262a060	IB	CALIB				09/21/07 02:33	1.0		
061	262a061	ICAL	DSL_10				09/21/07 03:01	1.0	12	
062	262a062	ICAL	DSL_100				09/21/07 03:28	1.0	13	
063	262a063	ICAL	DSL_500				09/21/07 03:55	1.0	14	
064	262a064	ICAL	DSL_1000				09/21/07 04:23	1.0	15	
065	262a065	ICAL	DSL_5000				09/21/07 04:51	1.0	16	
066	262a066	ICAL	DSL_7500				09/21/07 05:18	1.0	17	
067	262a067	IB	CALIB				09/21/07 05:46	1.0		
068	262a068	ICV	DSL_500				09/21/07 06:13	1.0	18	
069	262a069	X	ICV				09/21/07 06:41	1.0	19	

Standards used: 1=S6952 2=S6808 3=S6790 4=S6922 5=S6809 6=S7036 7=S7037 8=S7038 9=S7039 10=S7040 11=S6807 12=S6612 13=S6613 14=S6614 15=S6615 16=S6611 17=S6616 18=S6617 19=S56617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177438657

Instrument : GC17A
Method : EPA 8015B

Begun : 10/31/07 14:57
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	304a001	X	IB				10/31/07 14:57	1.0		
002	304a002	X	CMARKER				10/31/07 15:25	1.0	1	
003	304a003	CCV	DSL_500				10/31/07 15:53	1.0	2	
004	304a004	CCV	MO_500				10/31/07 16:20	1.0	3	
005	304a005	CCV	JP5_250				10/31/07 16:47	1.0	4	
006	304a006	CCV	JP8_250				10/31/07 17:15	1.0	5	
007	304a007	CCV	BUNK_1250				10/31/07 17:43	1.0	6	
008	304a008	SAMPLE	198518-002		Water	131125	10/31/07 19:44	1.0		
009	304a009	SAMPLE	198518-003		Water	131125	10/31/07 20:11	1.0		
010	304a010	SAMPLE	198518-004		Water	131125	10/31/07 20:39	1.0		
011	304a011	SAMPLE	198518-005		Water	131125	10/31/07 21:07	1.0		
012	304a012	SAMPLE	198518-006		Water	131125	10/31/07 21:34	1.0		
013	304a013	SAMPLE	198518-007		Water	131125	10/31/07 22:02	1.0		
014	304a014	SAMPLE	198518-008		Water	131125	10/31/07 22:30	1.0		2:BUNKC:12-40=6900
015	304a015	SAMPLE	198518-009		Water	131125	10/31/07 22:57	1.0		
016	304a016	SAMPLE	198537-001		Water	131125	10/31/07 23:25	1.0		
017	304a017	X	IB				10/31/07 23:52	1.0		
018	304a018	SAMPLE	198537-003		Water	131125	11/01/07 00:20	1.0		
019	304a019	CCV	DSL_250				11/01/07 00:47	1.0	7	
020	304a020	CCV	MO_500				11/01/07 01:15	1.0	3	
021	304a021	CCV	JP5_250				11/01/07 01:42	1.0	4	
022	304a022	CCV	JP8_250				11/01/07 02:09	1.0	5	
023	304a023	CCV	BUNK_1250				11/01/07 02:37	1.0	6	
024	304a024	X	CCV				11/01/07 03:04	1.0	7	
025	304a025	X	CCV				11/01/07 03:32	1.0	3	
026	304a026	X	CCV				11/01/07 03:59	1.0	4	
027	304a027	X	CCV				11/01/07 04:27	1.0	5	
028	304a028	X	CCV				11/01/07 04:54	1.0	6	
029	304a029	BLANK	QC412987	S	Water	131125	11/01/07 05:22	1.0		
030	304a030	BLANK	QC412987		Water	131125	11/01/07 05:50	1.0		
031	304a031	BLANK	QC412921	S	Water	131108	11/01/07 06:17	1.0		
032	304a032	BLANK	QC412921		Water	131108	11/01/07 06:45	1.0		
033	304a033	SAMPLE	198537-004	S	Water	131125	11/01/07 07:12	1.0		
034	304a034	SAMPLE	198537-004		Water	131125	11/01/07 07:40	1.0		
035	304a035	SAMPLE	198490-003	S	Water	131108	11/01/07 08:08	1.0		
036	304a036	SAMPLE	198490-001	S	Water	131108	11/01/07 08:35	1.0		
037	304a037	SAMPLE	198490-002		Water	131108	11/01/07 09:03	1.0		2:BUNKC:12-40=6800
038	304a038	X	IB				11/01/07 09:31	1.0		
039	304a039	SAMPLE	198454-004		Water	131108	11/01/07 09:58	1.0		
040	304a040	X	CMARKER				11/01/07 10:26	1.0	1	
041	304a041	CCV	DSL_1000				11/01/07 10:54	1.0	8	
042	304a042	CCV	MO_500				11/01/07 11:22	1.0	3	
043	304a043	CCV	JP5_250				11/01/07 11:49	1.0	4	
044	304a044	CCV	JP8_250				11/01/07 12:17	1.0	5	
045	304a045	CCV	BUNK_1250				11/01/07 12:45	1.0	6	
046	304a046	SAMPLE	198490-002		Water	131108	11/01/07 13:12	10.0		
047	304a047	SAMPLE	198454-003		Water	131108	11/01/07 13:40	1.0		
048	304a048	SAMPLE	198454-002		Water	131108	11/01/07 14:07	1.0		
049	304a049	SAMPLE	198454-001		Water	131108	11/01/07 14:35	1.0		
050	304a050	X	DSL_500				11/01/07 15:02	1.0	2	
051	304a051	CCV	MO_500				11/01/07 15:30	1.0	3	
052	304a052	CCV	JP5_250				11/01/07 15:57	1.0	4	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177438657

Instrument : GC17A
Method : EPA 8015B

Begun : 10/31/07 14:57
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	304a053	CCV	JP8_250				11/01/07 16:25	1.0	5	
054	304a054	CCV	BUNK_1250				11/01/07 16:52	1.0	6	
055	304a055	CCV	DSL_500				11/01/07 17:20	1.0	2	
056	304a056	BLANK	QC413132		Water	131162	11/01/07 17:49	1.0		
057	304a057	LCS	QC413133		Water	131162	11/01/07 18:17	1.0		
058	304a058	SAMPLE	198761-030		Water	131162	11/01/07 18:44	1.0		
059	304a059	SAMPLE	198597-002		Water	131162	11/01/07 19:12	1.0		
060	304a060	SAMPLE	198775-004		Water	131162	11/01/07 19:39	1.0		
061	304a061	X	IB				11/01/07 20:07	1.0		
062	304a062	SAMPLE	198629-006		Water	131162	11/01/07 20:35	1.0		
063	304a063	SAMPLE	198629-004		Water	131162	11/01/07 21:03	1.0		
064	304a064	SAMPLE	198629-005		Water	131162	11/01/07 21:30	1.0		
065	304a065	SAMPLE	198629-002		Water	131162	11/01/07 21:58	1.0		
066	304a066	SAMPLE	198629-003		Water	131162	11/01/07 22:26	1.0		
067	304a067	X	CMARKER				11/01/07 22:53	1.0	1	
068	304a068	X	DSL_1000				11/01/07 23:21	1.0	8	
069	304a069	CCV	MO_500				11/01/07 23:49	1.0	3	
070	304a070	CCV	JP5_250				11/02/07 00:16	1.0	4	
071	304a071	CCV	JP8_250				11/02/07 00:44	1.0	5	
072	304a072	CCV	DSL_1000				11/02/07 01:12	1.0	8	
073	304a073	SAMPLE	198499-002		Water	131166	11/02/07 01:55	1.0		
074	304a074	SAMPLE	198499-003		Water	131166	11/02/07 02:22	1.0		
075	304a075	SAMPLE	198499-004		Water	131166	11/02/07 02:50	1.0		
076	304a076	SAMPLE	198499-005		Water	131166	11/02/07 03:17	1.0		
077	304a077	SAMPLE	198499-006		Water	131166	11/02/07 03:45	1.0		
078	304a078	SAMPLE	198499-007		Water	131166	11/02/07 04:12	1.0		
079	304a079	SAMPLE	198499-008		Water	131166	11/02/07 04:40	1.0		
080	304a080	SAMPLE	198499-009		Water	131166	11/02/07 05:07	1.0		
081	304a081	SAMPLE	198499-010		Water	131166	11/02/07 05:35	1.0		
082	304a082	X	IB				11/02/07 06:03	1.0		
083	304a083	SAMPLE	198499-011		Water	131166	11/02/07 06:30	1.0		
084	304a084	X	CCV				11/02/07 06:58	1.0	7	
085	304a085	CCV	MO_500				11/02/07 07:26	1.0	3	
086	304a086	CCV	JP5_250				11/02/07 07:53	1.0	4	
087	304a087	CCV	JP8_250				11/02/07 08:21	1.0	5	
088	304a088	CCV	DSL_250				11/02/07 08:49	1.0	7	

Standards used: 1=S6952 2=S6808 3=S7310 4=S6929 5=S6930 6=S7350 7=S6807 8=S6809

REPORTING SUMMARY FOR 198818 GCSV Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
198818-008	GC15B	11/01/07 17:12	1.0	+	+	+	
QC413132	GC17A	11/01/07 17:49	1.0				
QC413132	GC15B	11/01/07 19:03	1.0	+	+	+	
QC413133	GC17A	11/01/07 18:17	1.0	+		+	

SAMPLE PREPARATION SUMMARY

Batch # : 131162
Started By : DJT
Method : 3520C
Spike #1 ID : S7552
Prep Date : 31-OCT-2007
SOP Version : TEH_3520_rv11
Spike #2 ID : S7448
Analysis : TEH
Finished By : SFH
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198597-002		Water	500	2.5	1	0.005	7	.5				TEH	
198597-003		Water	500	2.5	1	0.005	7	.5				TEH	
198597-004		Water	500	2.5	1	0.005	7	.5				TEH	
198597-005		Water	500	2.5	1	0.005	7	.5				TEH	
198597-006		Water	500	2.5	1	0.005	7	.5				TEH	
198618-002		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
198618-003		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
198618-004		Water	500	2.5	1	0.005	7	.5			3630C	(rebatched)	mss
198618-005		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
198629-002		Water	500	2.5	1	0.005	7	.5				(rebatched)	
198629-003		Water	500	2.5	1	0.005	7	.5				TEH	
198629-004		Water	500	2.5	1	0.005	7	.5				TEH	
198629-005		Water	500	2.5	1	0.005	7	.5				TEH	
198629-006		Water	500	2.5	1	0.005	7	.5				TEH	
198746-001		Water	500	2.5	1	0.005	7	.5				TEHM	
198761-030		Water	500	2.5	1	0.005	5	.5				TEHM	
198763-001		Water	500	2.5	1	0.005	5	.5			3630C	TEHM	
198775-004		Water	500	2.5	1	0.005	5	.5				TEHM	
198818-008		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
QC413132	BLANK	Water	500	2.5	1	0.005		.5			3630C		
QC413133	LCS	Water	500	2.5	1	0.005		.5	.5		3630C		
QC413134	MS	Water	500	2.5	1	0.005	7	.5	.5		3630C		
QC413135	MSD	Water	500	2.5	1	0.005	7	.5	.5		3630C		

Analyst: ATL Date: 11/02/07 Reviewer: LH Date: 11/02/07

TEH (8015) Water Prep Log — Curtis & Tompkins, Ltd.

Page 64 — BK 2577

LIMS Batch No: 131162
LIMS Analysis: TEH/M
Date Extracted: 10/31/07

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☒ EPA 3630c Silica Gel

	Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
	198597-002 L	500	7	2.5		
	003 ↓	↓	↓	↓		
	004 M					
	005					
5	006 ↓					
	198618-002 I				X	
	003 ↓				↓	
	004 R					MSS
	005 H				↓	
10	198629-002 M					
	003					
	004					
	005					
	006 ↓					
15	198746-001 H		↓			
	198761-030 F		5			
	198763-001 ↓		↓		X	
	198775-004 C		↓			
	198818-008 I		7		X	
20	MB QC 413132		NA		↓	
	LCS 3		↓			198618-004 P
	MS 4 P		7			MS/MSD combined in same vial ★
	MSD ↓ 5 ↓	↓	↓	↓	↓	↓ 198618-004 P
						SFH 11/1/07

★ See CAR 3374

DST 10/31/07

Mfg & Lot# / LIMS # / Time	Date/Initials
0.5 mL of TEH_SURR was added to all samples	S7448C S7552A	DST 10/31/07
0.5 mL of TEH_SP was added to all spikes	S7552A S7448C	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS072315	
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM47177	
Extraction Start Time:	1440	↓
Extraction End Time:	845	SFH 11/1/07
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM47158737	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	↓

10/31/07
Extraction Chemist **Date**

Contined from Page —
Continued on Page —

11/1/07
Reviewed by **Date**

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: SFH
Cleanup Date: 11/1/07

Benchbook # **BK 2585**
Page 97

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
198618-002	131162	1.0	1.0	
-003				
-004				MSS
-005				
198763-001				
198818-008				
MB QC413132				
LCS 3				
MS 4				combined w/ MSD
MS QC409996	130417			
MSD 7				
				SFH 11/1/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	N/A	SFH 11/1/07
☑ Extracts were cleaned up using 1.0 g cartridges	SPG012	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM 47177	
Concentrated to volumes as noted above	—	

11/1/07
Extraction Chemist / Date

Continued from page —
Continued on page —

11/1/07
Reviewed by / Date

TPH-EXTRACTABLES DATA

SOIL

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07
Diln Fac:	1.000	Prepared:	10/31/07
Batch#:	131140		

Field ID:	1065EX350[4.0]	Moisture:	20%
Type:	SAMPLE	Analyzed:	10/31/07
Lab ID:	198818-001	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	130 Y	1.2	0.16
Fuel Oil C24-C36	40	6.2	1.5

Surrogate	%REC	Limits
Hexacosane	86	65-135

Field ID:	DUP103007	Moisture:	21%
Type:	SAMPLE	Analyzed:	11/01/07
Lab ID:	198818-002	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	110 Y	1.3	0.16
Fuel Oil C24-C36	53	6.3	1.5

Surrogate	%REC	Limits
Hexacosane	103	65-135

Field ID:	1065EX351[4.0]	Moisture:	8%
Type:	SAMPLE	Analyzed:	10/31/07
Lab ID:	198818-003	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	0.80 J	1.1	0.14
Fuel Oil C24-C36	6.6	5.4	1.3

Surrogate	%REC	Limits
Hexacosane	93	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

61.3

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07
Diln Fac:	1.000	Prepared:	10/31/07
Batch#:	131140		

Field ID:	1065EX352[4.0]	Moisture:	17%
Type:	SAMPLE	Analyzed:	10/31/07
Lab ID:	198818-004	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	860 Y	1.2	0.15
Fuel Oil C24-C36	570	6.0	1.5

Surrogate	%REC	Limits
Hexacosane	88	65-135

Field ID:	1065EX353[4.0]	Moisture:	10%
Type:	SAMPLE	Analyzed:	11/01/07
Lab ID:	198818-005	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	0.76 J Y	1.1	0.28
Fuel Oil C24-C36	7.6	5.5	1.5

Surrogate	%REC	Limits
Hexacosane	75	65-135

Field ID:	1065EX355[4.0]	Moisture:	14%
Type:	SAMPLE	Analyzed:	11/01/07
Lab ID:	198818-006	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	36 Y	1.2	0.30
Fuel Oil C24-C36	33	5.8	1.6

Surrogate	%REC	Limits
Hexacosane	77	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07
Diln Fac:	1.000	Prepared:	10/31/07
Batch#:	131140		

Field ID:	1065EX356[4.0]	Moisture:	4%
Type:	SAMPLE	Analyzed:	11/01/07
Lab ID:	198818-007	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	0.56 J	1.0	0.27
Fuel Oil C24-C36	4.1 J	5.2	1.4

Surrogate	%REC	Limits
Hexacosane	76	65-135

Field ID:	1065EX354[4.0]	Moisture:	12%
Type:	SAMPLE	Analyzed:	11/01/07
Lab ID:	198818-010	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	12 Y	1.1	0.14
Fuel Oil C24-C36	44	5.7	1.4

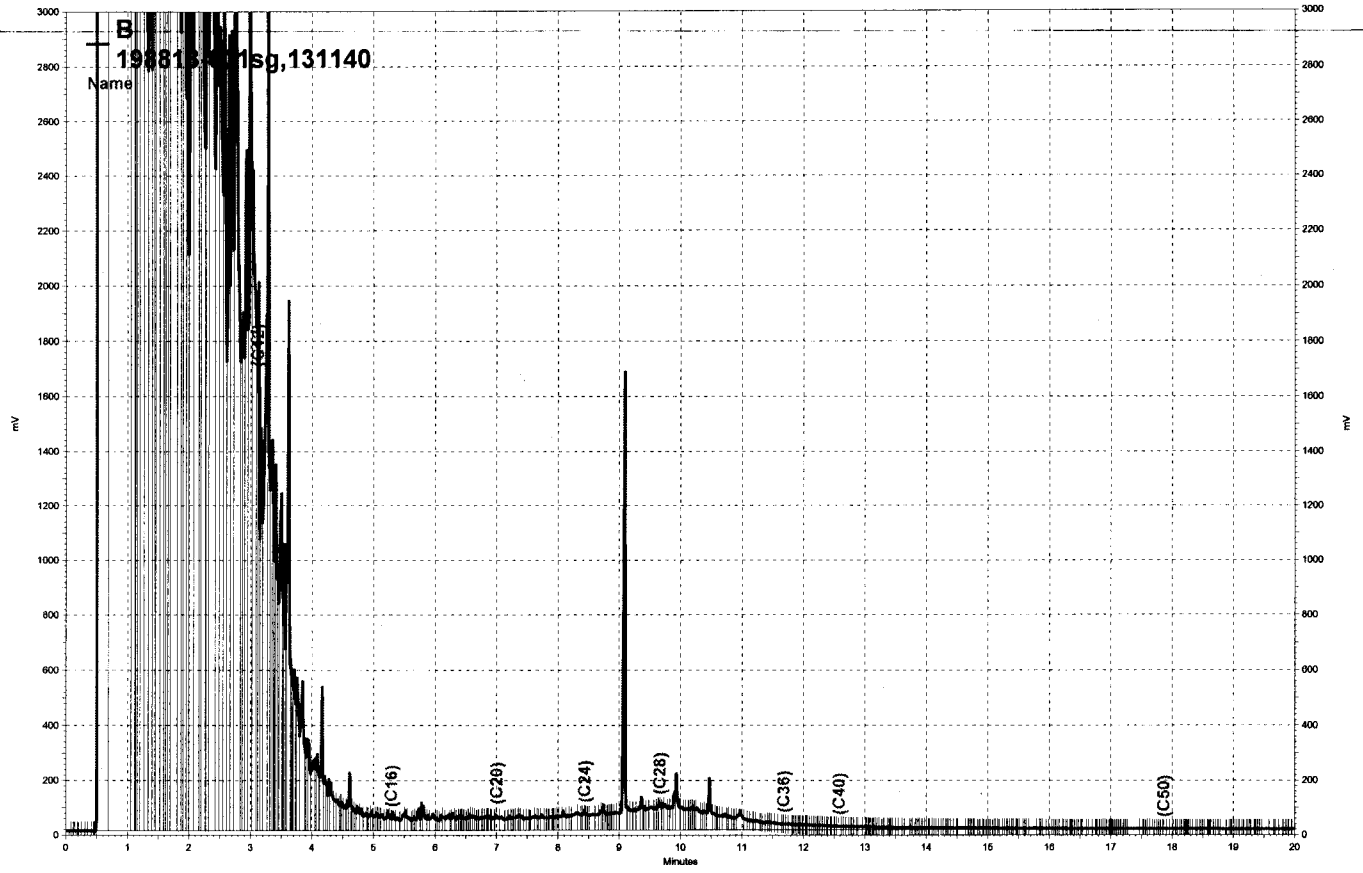
Surrogate	%REC	Limits
Hexacosane	98	65-135

Type:	BLANK	Analyzed:	11/01/07
Lab ID:	QC413040	Cleanup Method:	EPA 3630C
Basis:	as received		

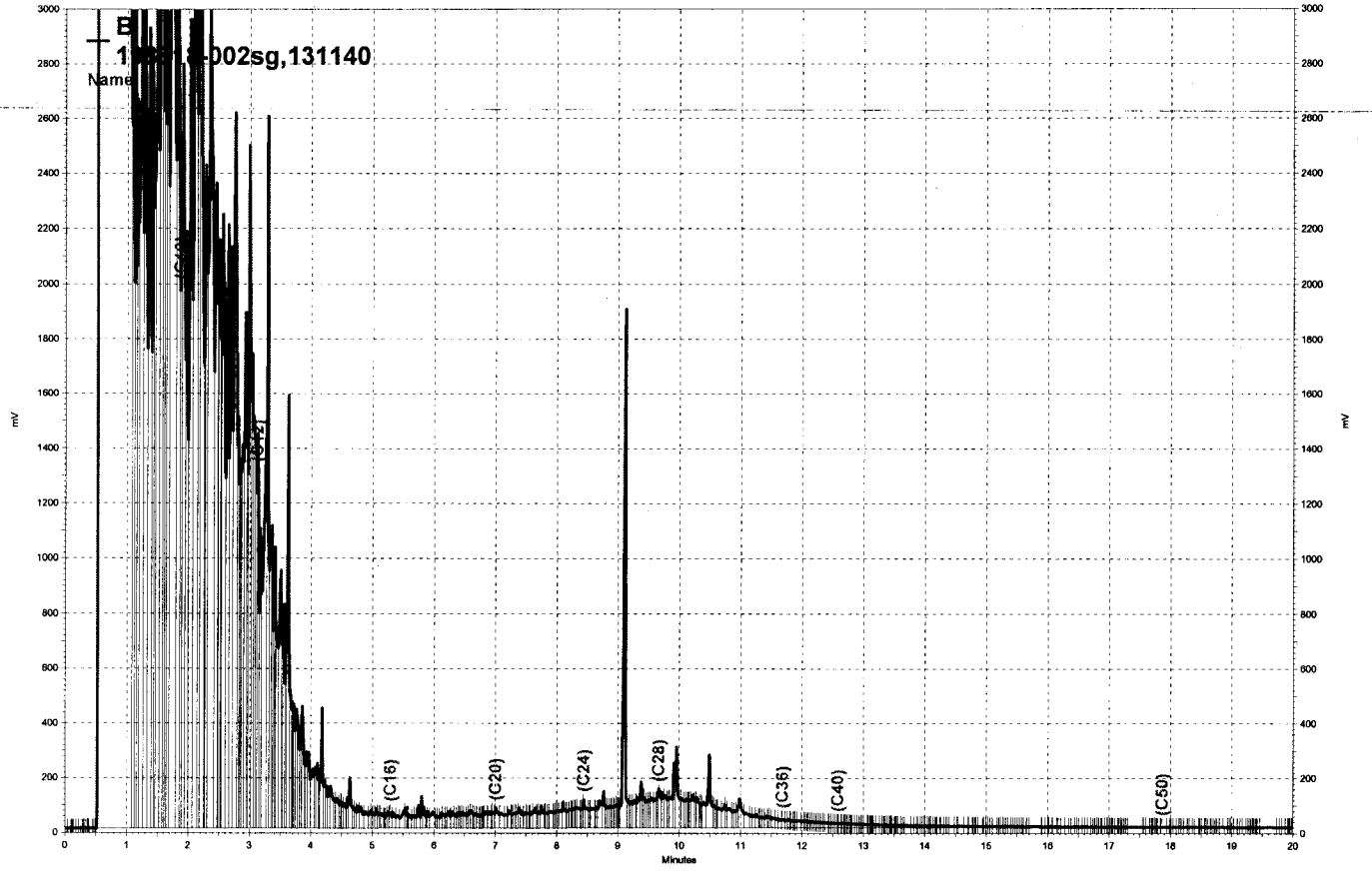
Analyte	Result	RL	MDL
Diesel C12-C24	ND	0.99	0.13
Fuel Oil C24-C36	ND	5.0	1.2

Surrogate	%REC	Limits
Hexacosane	106	65-135

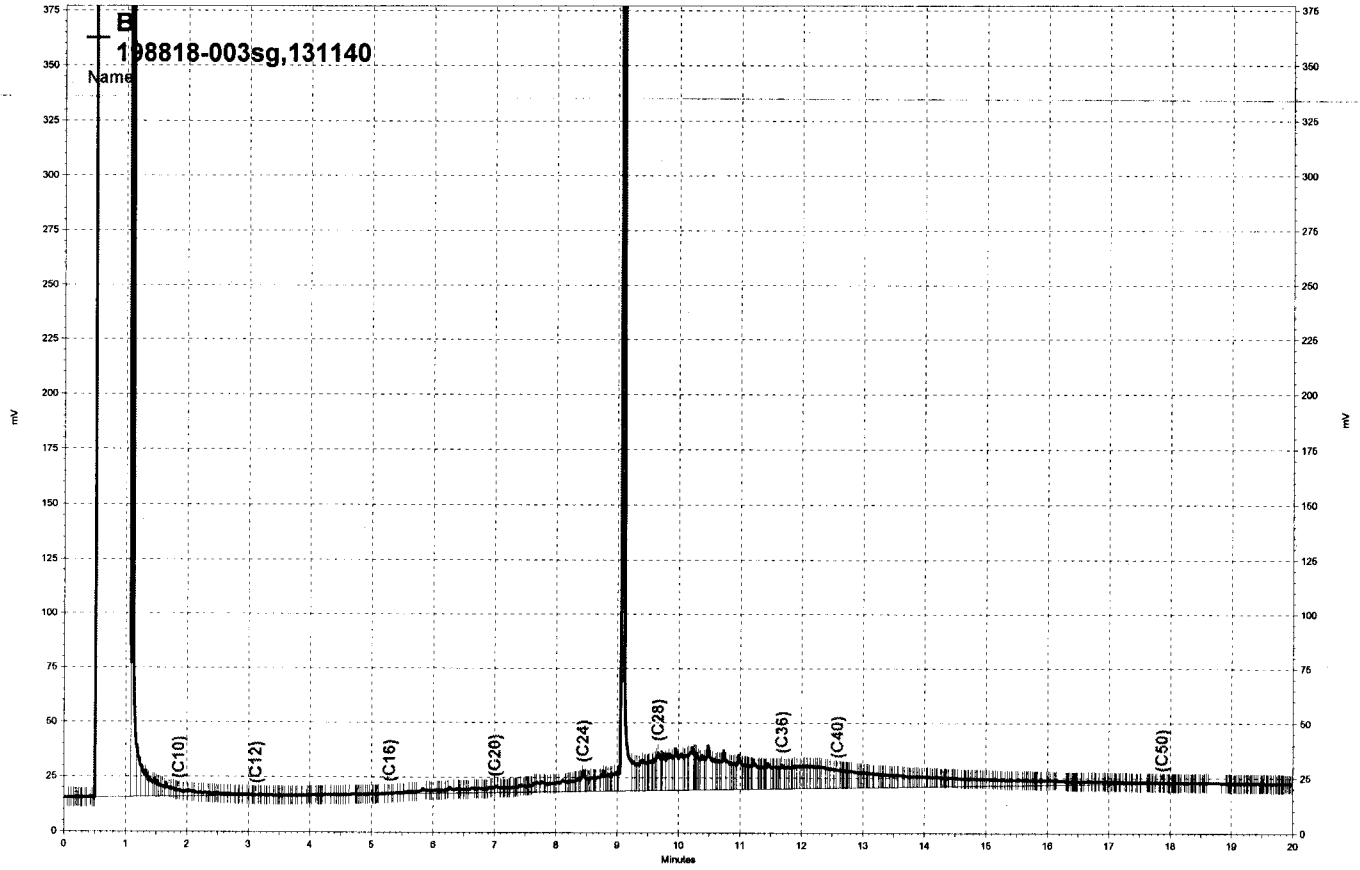
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



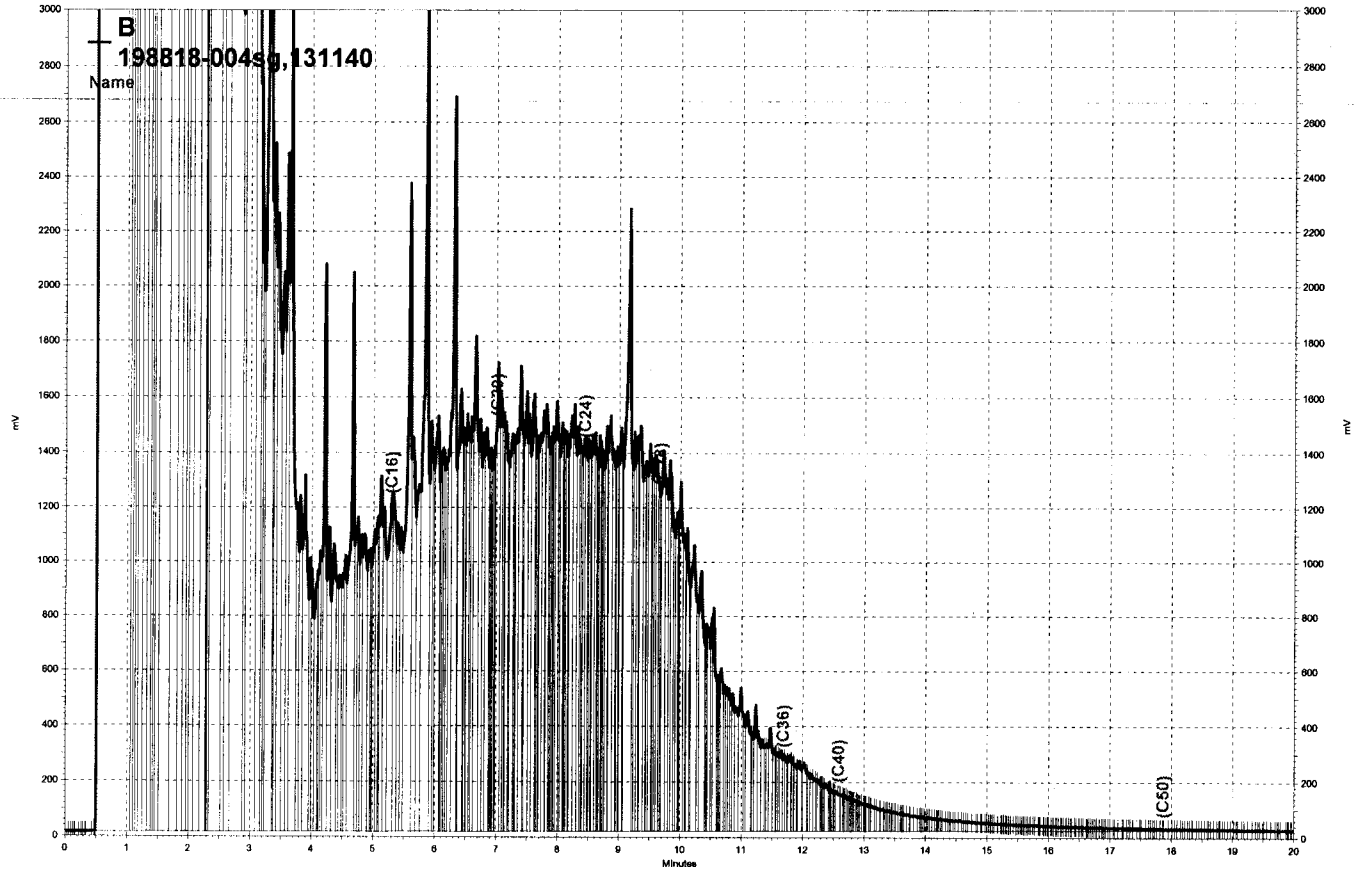
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\303b044, B



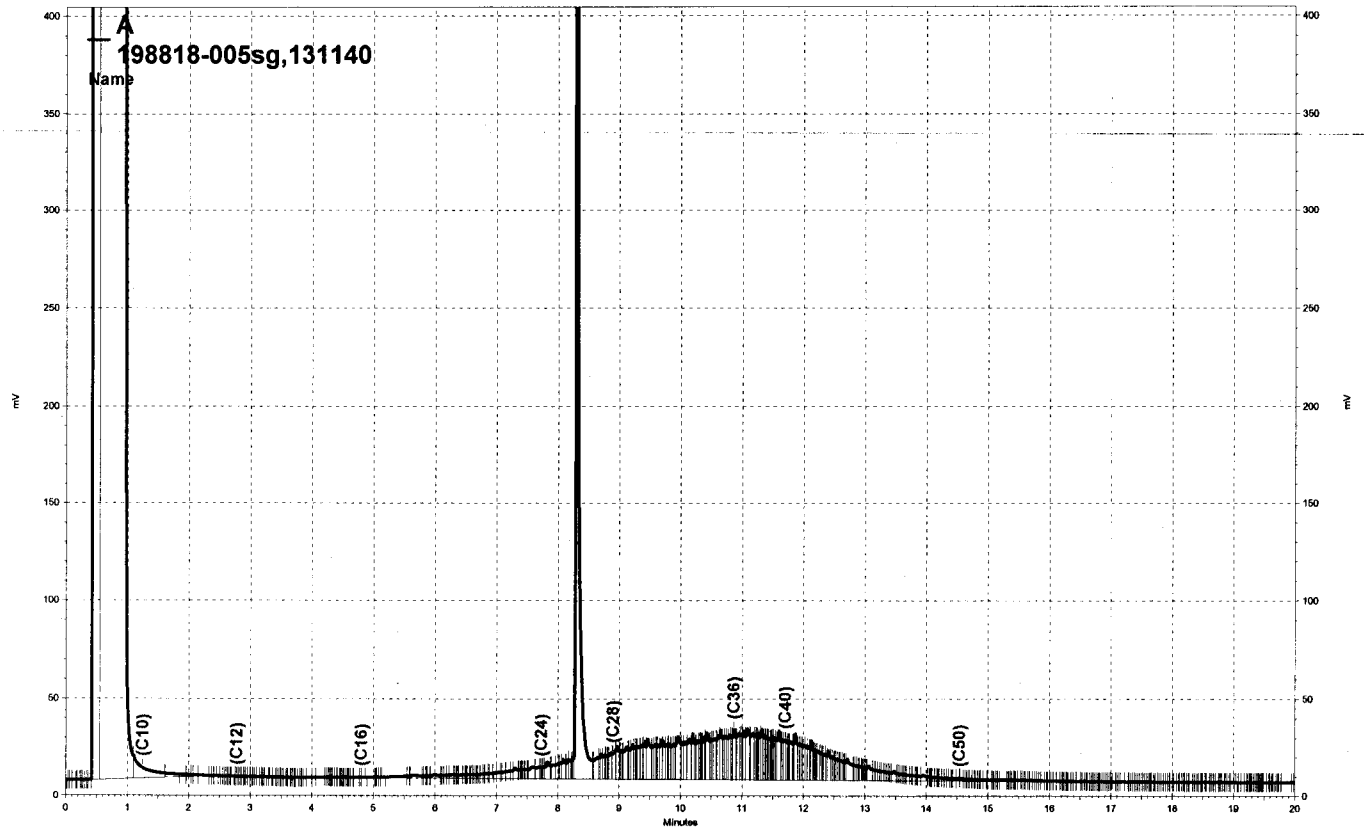
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\303b045, B



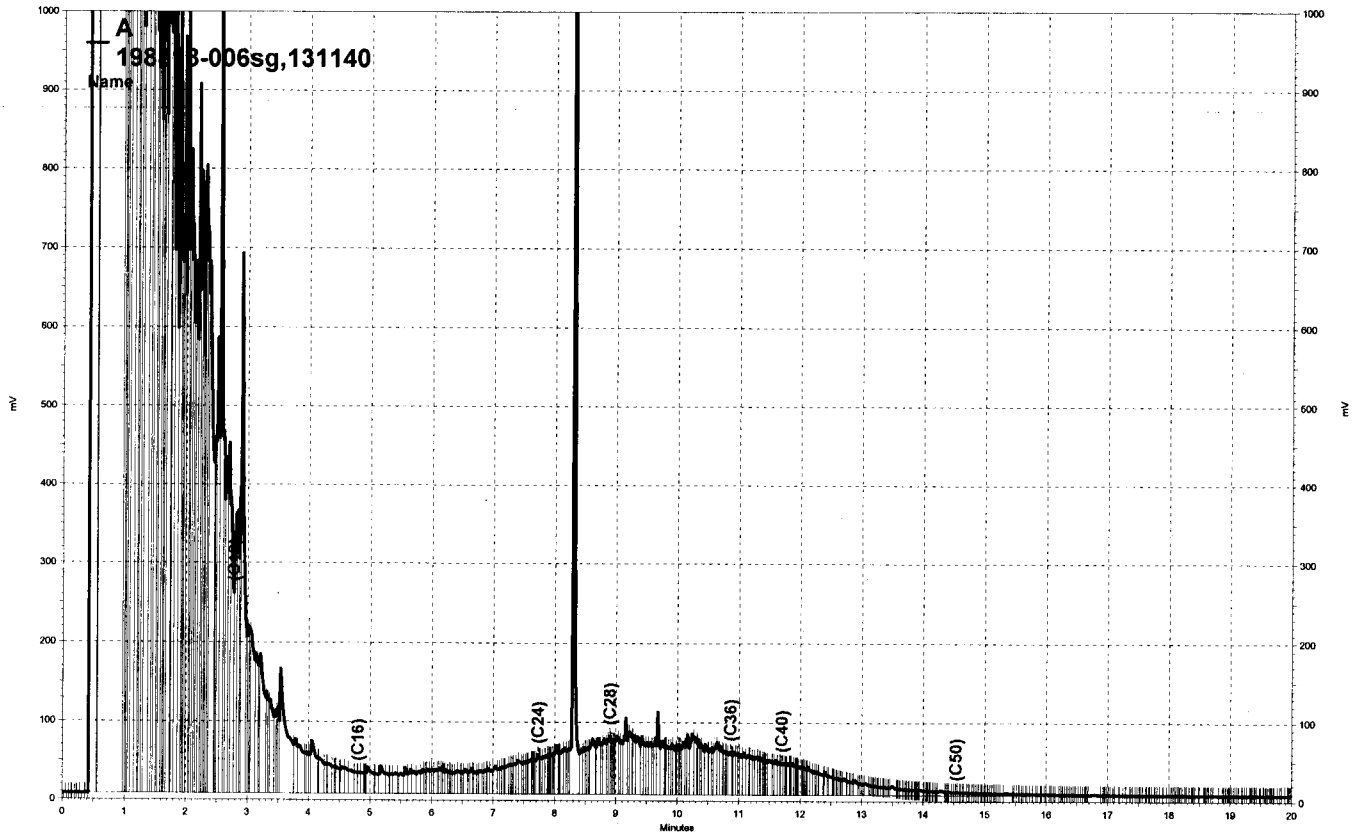
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\303b043, B



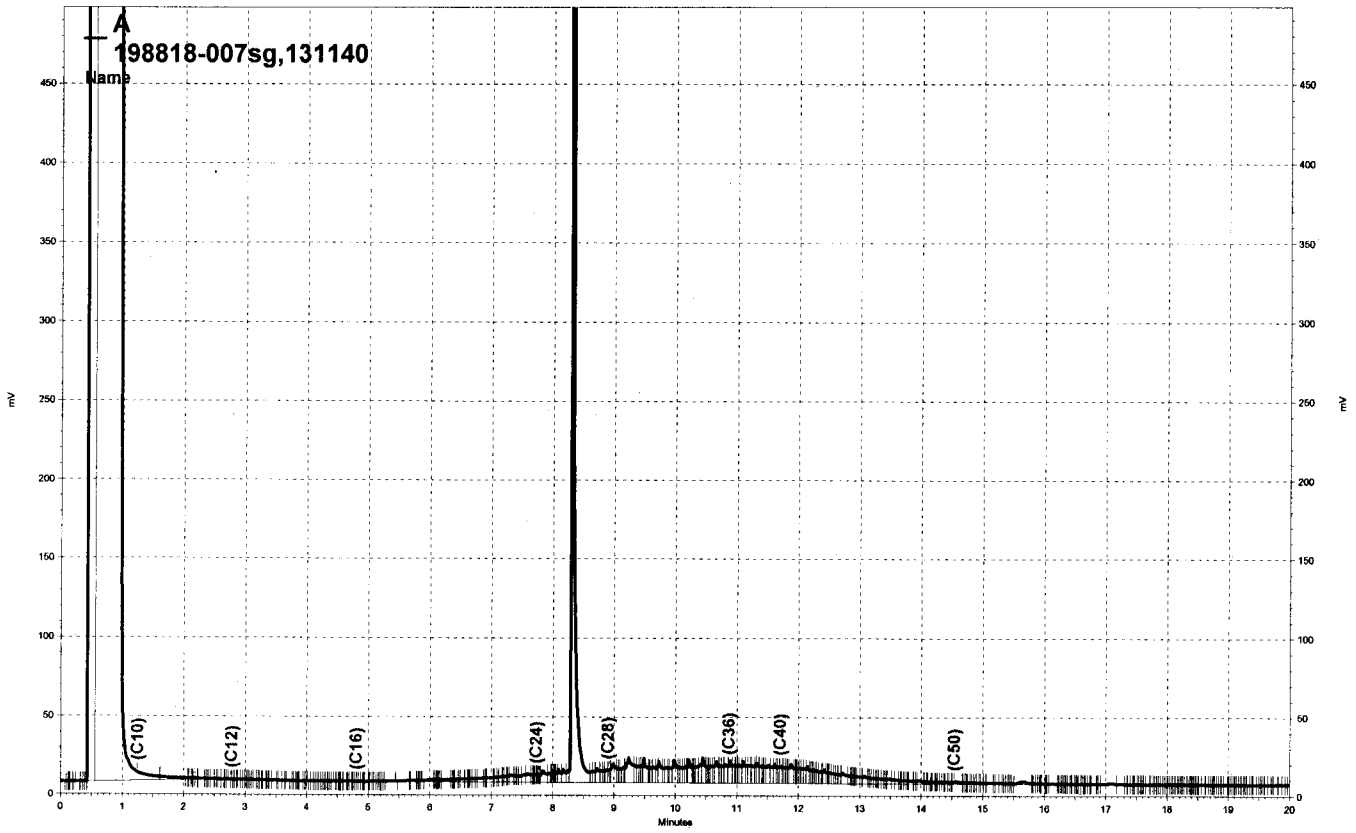
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\303b038, B



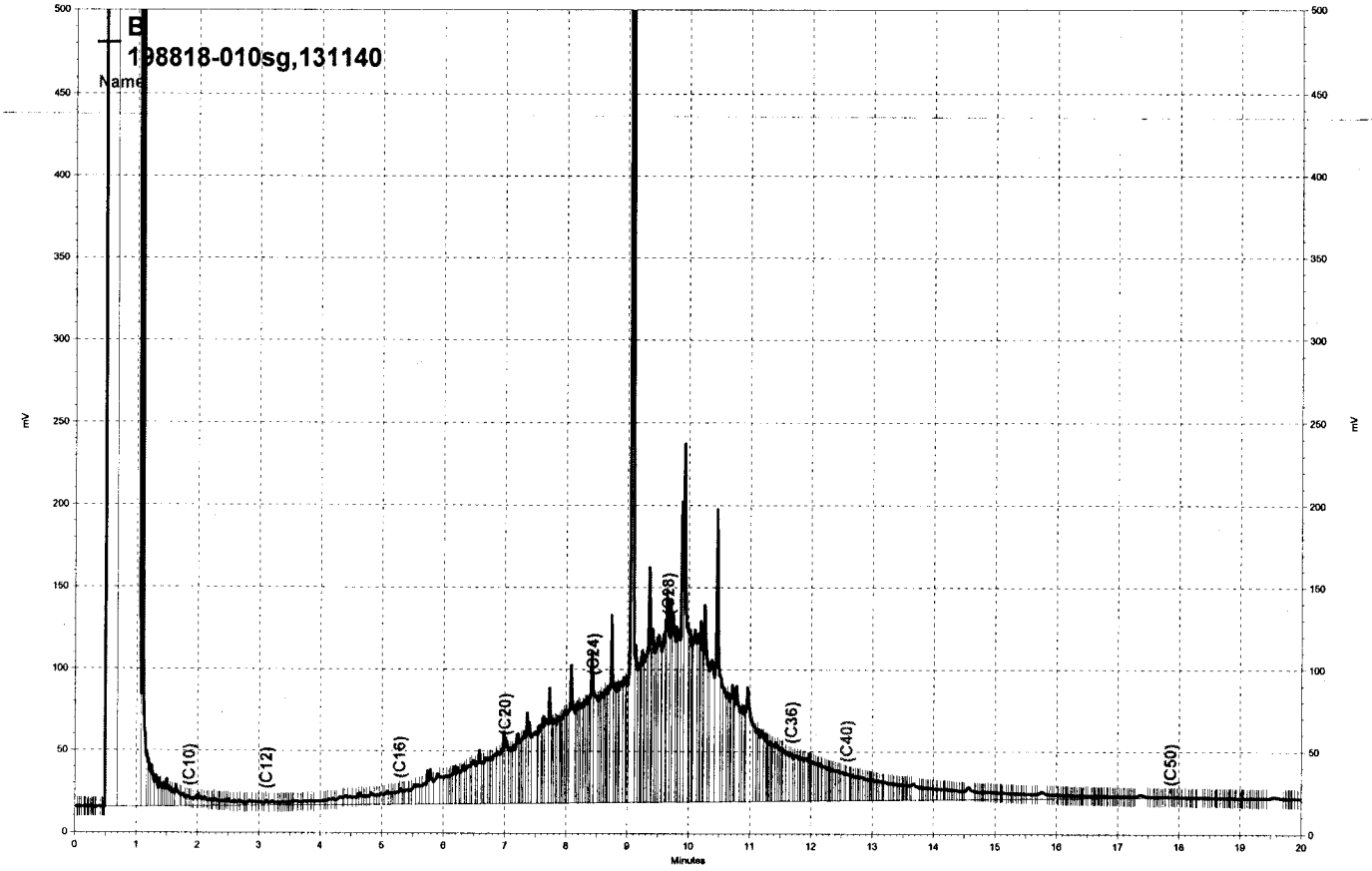
\\Lims\gdrive\ezchrom\Projects\GC11A\Data\303a051, A



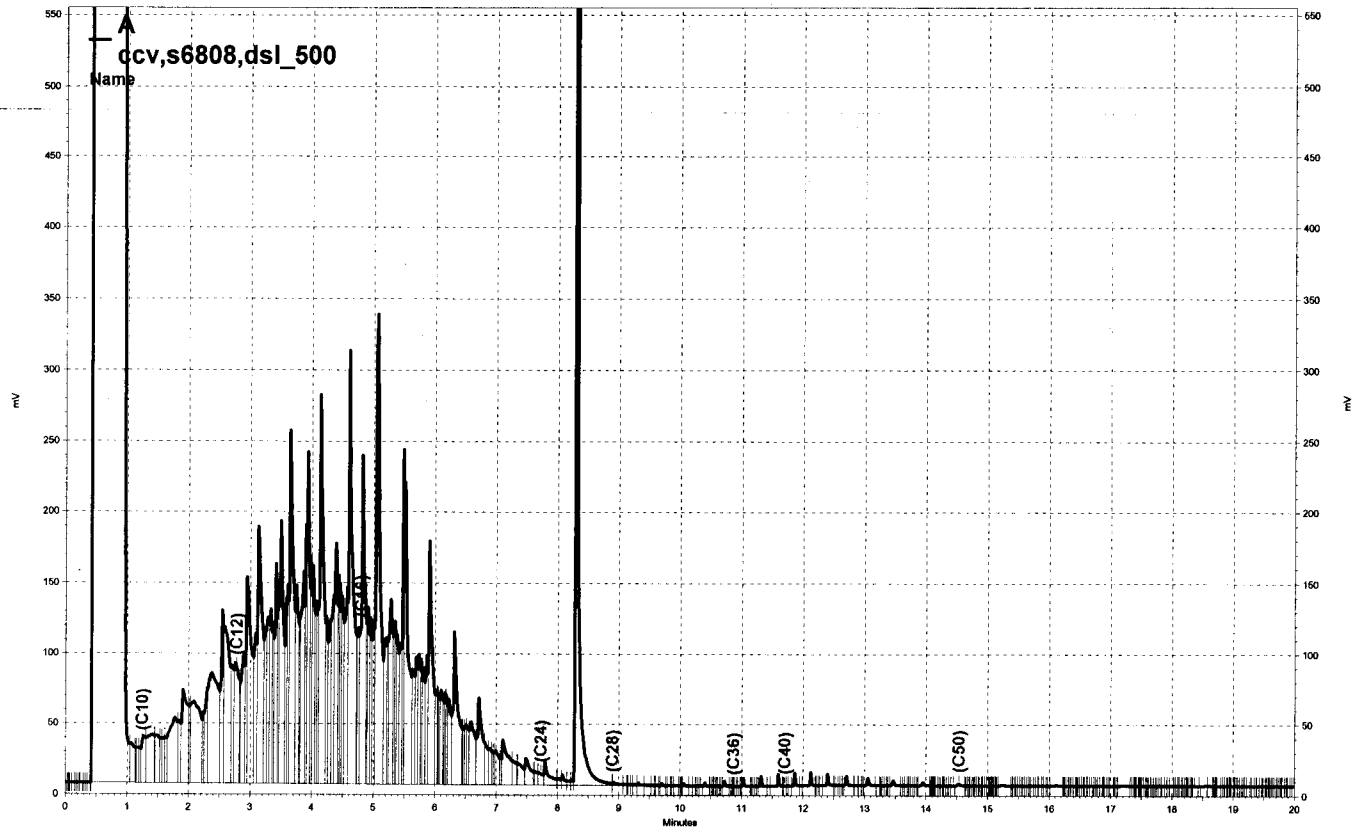
\\Lims\gdrive\ezchrom\Projects\GC11A\Data\303a052, A



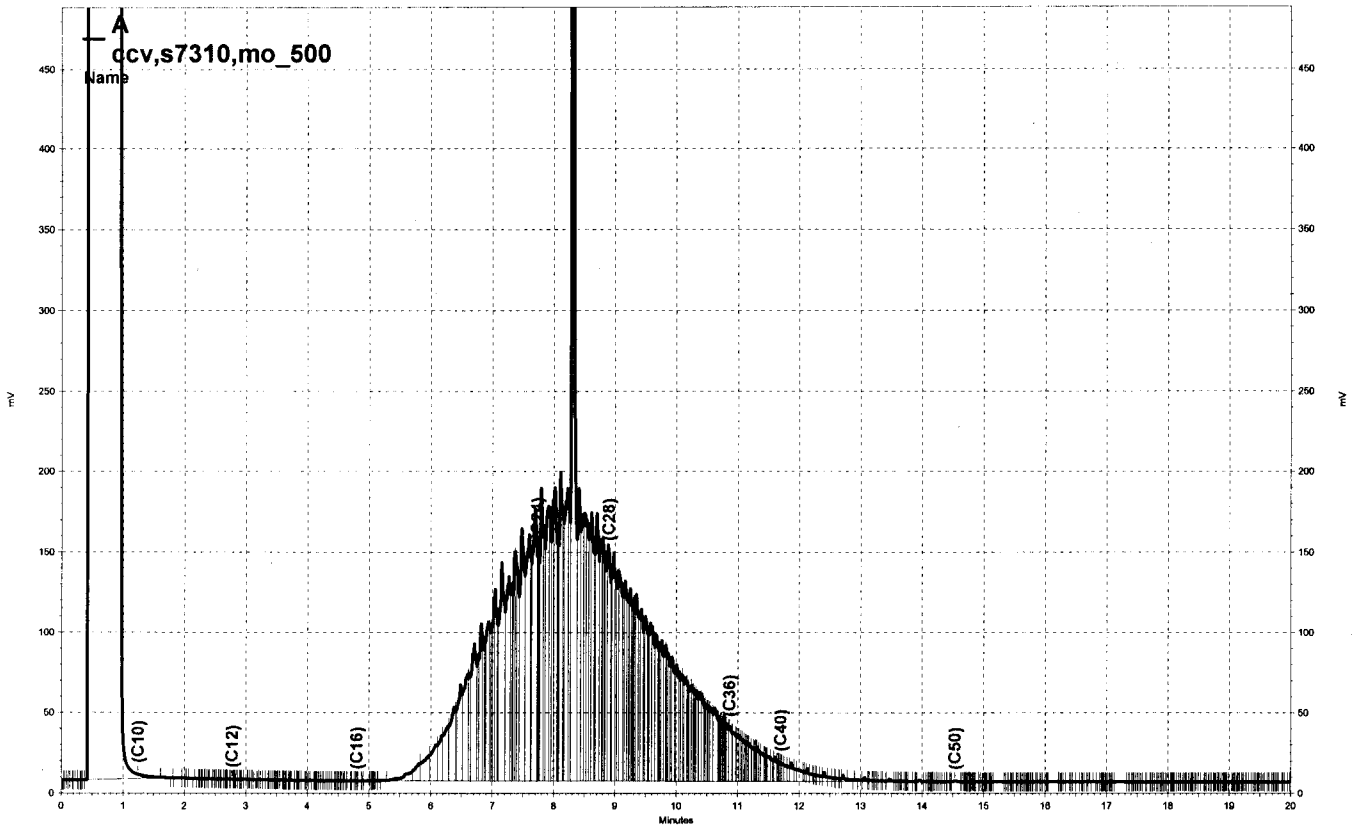
\\Lims\gdrive\ezchrom\Projects\GC11A\Data\303a053, A



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\303b046, B



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\303a046, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\303a047, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413041	Batch#:	131140
Matrix:	Soil	Prepared:	10/31/07
Units:	mg/Kg	Analyzed:	11/01/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.75	37.62	76	65-135

Surrogate	%REC	Limits
Hexacosane	94	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX352[4.0]	Batch#:	131140
MSS Lab ID:	198818-004	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	mg/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	10/31/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC413042
Moisture: 17%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	861.3	59.87	744.0	-196 NM	65-135

Surrogate	%REC	Limits
Hexacosane	81	65-135

Type: MSD
Lab ID: QC413043
Moisture: 17%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	59.98	655.1	-344 NM	65-135	13	35

Surrogate	%REC	Limits
Hexacosane	82	65-135

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

63.0

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 GCSV Soil
EPA 8015B

Inst : GC11A
Name : Diesel
Calnum : 117061448001
Cal Date : 11-FEB-2007

ICV 117061448016 (042a016 12-FEB-2007) stds: S5419 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	58249	55207	500.0	473.9	mg/L	-5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183006
Units : mg/L

Name : dsl
Date : 10-OCT-2007 12:00
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_003	227408183003	DSL_10	10-OCT-2007 12:00	S6612
L2	283_004	227408183004	DSL_100	10-OCT-2007 12:29	S6613
L3	283_005	227408183005	DSL_500	10-OCT-2007 12:58	S6614
L4	283_006	227408183006	DSL_1000	10-OCT-2007 13:27	S6615
L5	283_007	227408183007	DSL_5000	10-OCT-2007 13:56	S6611
L6	283_008	227408183008	DSL_7500	10-OCT-2007 14:25	S6616

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	57537	63636	64700	63713	59922	65554	AVRG		1.60E-5		62510	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	B	10.00	-8	100.0	2	500.0	4	1000	2	5000	-4	7500	5

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 227408183006

Name : dsl
Cal Date : 10-OCT-2007

ICV 227408183010 (283_010 10-OCT-2007) stds: S6617 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	62510	57512	500.0	460.0	mg/L	-8	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183005
Units : mg/L

Name : Motor Oil
Date : 10-OCT-2007 16:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_012	227408183012	MO_50	10-OCT-2007 16:20	S6848
L2	283_013	227408183013	MO_250	10-OCT-2007 16:48	S6849
L3	283_014	227408183014	MO_500	10-OCT-2007 17:16	S6850
L4	283_015	227408183015	MO_1000	10-OCT-2007 17:44	S6851
L5	283_040	227408183040	MO_5000	11-OCT-2007 10:35	S6846

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	39282	41294	41437	39011	31093	AVRG		2.60E-5		38423	11	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	B	50.00	2	250.0	7	500.0	8	1000	2	5000	-19

Analyst: ATL Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

227408183005

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183002
Units : mg/L

Name : HEX
Date : 10-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_019	227408183019	HEX_5	10-OCT-2007 19:38	S7036
L2	283_020	227408183020	HEX_10	10-OCT-2007 20:06	S7037
L3	283_021	227408183021	HEX_25	10-OCT-2007 20:34	S7038
L4	283_022	227408183022	HEX_50	10-OCT-2007 21:03	S7039
L5	283_023	227408183023	HEX_100	10-OCT-2007 21:31	S7040
L6	283_024	227408183024	HEX_200	10-OCT-2007 22:00	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	62663	62290	59838	61265	60611	52506	AVRG		1.67E-5		59862	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	5	10.00	4	25.00	0	50.00	2	100.0	1	200.0	-12

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_500 IDF : 1.0
Seqnum : 117437373046 File : 303a046 Time : 31-OCT-2007 23:05
Standards: S6808

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	54963	500.0	471.8	mg/L	-6	15	
Hexacosane	117245263001	19-JUN-2007	69898	63219	50.00	45.22	mg/L	-10	15	

Analyst: ATL Date: 11/01/07 Reviewer: JDG Date: 11/01/07

117437373046

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117437373047 File : 303a047 Time : 31-OCT-2007 23:33
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	40605	500.0	489.7	mg/L	-2	15	
Hexacosane	117245263001	19-JUN-2007	69898	67420	50.00	48.23	mg/L	-4	15	

Analyst: ATL Date: 11/01/07 Reviewer: JDG Date: 11/01/07

117437373047

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_1000 IDF : 1.0
Seqnum : 117437373063 File : 303a063 Time : 01-NOV-2007 07:00
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	54493	1000	935.5	mg/L	-6	15	
Hexacosane	117245263001	19-JUN-2007	69898	63675	50.00	45.55	mg/L	-9	15	

Analyst: ATL Date: 11/01/07 Reviewer: JDG Date: 11/01/07

117437373063

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117437373064 File : 303a064 Time : 01-NOV-2007 07:29
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	40422	500.0	487.5	mg/L	-2	15	
Hexacosane	117245263001	19-JUN-2007	69898	68240	50.00	48.81	mg/L	-2	15	

Analyst: ATL Date: 11/01/07 Reviewer: JDG Date: 11/01/07

117437373064

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 227437629033 File : 303_033 Time : 31-OCT-2007 14:03
Standards: S6809

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	58708	1000	939.2	mg/L	-6	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	63880	50.00	53.36	mg/L	7	15	

Analyst: CP Date: 10/31/07 Reviewer: CW Date: 10/31/07

227437629033

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227437629034 File : 303_034 Time : 31-OCT-2007 14:31
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	39798	500.0	517.9	mg/L	4	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	67614	50.00	56.48	mg/L	13	15	

Analyst: ZA Date: 10/31/07 Reviewer: JDG Date: 11/01/07

227437629034

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
Seqnum : 227437629049 File : 303_049 Time : 01-NOV-2007 02:18
Standards: S6808

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	58514	500.0	468.0	mg/L	-6	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	64576	50.00	53.94	mg/L	8	15	

Analyst: ATL Date: 11/01/07 Reviewer: JDG Date: 11/01/07

227437629049

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227437629050 File : 303_050 Time : 01-NOV-2007 02:47
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	36889	500.0	480.0	mg/L	-4	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	66118	50.00	55.22	mg/L	10	15	

Analyst: ATL Date: 11/01/07 Reviewer: JDG Date: 11/01/07

227437629050

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
Seqnum : 227437629066.1 File : 303_066 Time : 01-NOV-2007 10:51
Standards: S6807

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	59845	250.0	239.3	mg/L	-4	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	64091	50.00	53.53	mg/L	7	15	

Analyst: JDG Date: 11/01/07 Reviewer: LH Date: 11/01/07

227437629066.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227437629067.1 File : 303_067 Time : 01-NOV-2007 11:19
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	37344	500.0	486.0	mg/L	-3	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	66345	50.00	55.41	mg/L	11	15	

Analyst: JDG Date: 11/01/07 Reviewer: LH Date: 11/01/07

227437629067.1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117037956

Instrument : GC11A
Method : EPA 8015B

Begun : 01/26/07 08:36
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	026a001	X	IB			01/26/07 08:36	1.0	
002	026a002	XCCV	DSL_500			01/26/07 09:04	1.0	1
003	026a003	XCCV	MO_500			01/26/07 09:32	1.0	2
006	026a006	X	HEX_5			01/26/07 16:57	1.0	
007	026a007	X	IB			01/26/07 17:25	1.0	
008	026a008	CMARKER	C8-C50			01/26/07 17:55	1.0	3
009	026a009	X	CALIB			01/26/07 18:22	1.0	
010	026a010	XICAL	DSL_10			01/26/07 18:50	1.0	4
011	026a011	XICAL	DSL_100			01/26/07 19:18	1.0	5
012	026a012	XICAL	DSL_500			01/26/07 19:46	1.0	6
013	026a013	XICAL	DSL_1000			01/26/07 20:14	1.0	7
014	026a014	XICAL	DSL_5000			01/26/07 20:42	1.0	8
015	026a015	XICAL	DSL_7500			01/26/07 21:10	1.0	9
016	026a016	X	IB			01/26/07 21:38	1.0	
017	026a017	XICV	DSL_500			01/26/07 22:06	10.0	10
018	026a018	XICV	DSL_500			01/26/07 22:34	10.0	10
019	026a019	IB	CALIB			01/26/07 23:02	1.0	
020	026a020	ICAL	MO_50			01/26/07 23:30	1.0	11
021	026a021	ICAL	MO_250			01/26/07 23:58	1.0	12
022	026a022	ICAL	MO_500			01/27/07 00:26	1.0	13
023	026a023	ICAL	MO_1000			01/27/07 00:54	1.0	14
024	026a024	ICAL	MO_5000			01/27/07 01:22	1.0	15
025	026a025	IB	CALIB			01/27/07 01:50	1.0	
026	026a026	ICAL	HEX_5			01/27/07 02:18	1.0	16
027	026a027	ICAL	HEX_10			01/27/07 02:46	1.0	17
028	026a028	ICAL	HEX_25			01/27/07 03:14	1.0	18
029	026a029	ICAL	HEX_50			01/27/07 03:42	1.0	19
030	026a030	ICAL	HEX_100			01/27/07 04:10	1.0	20
031	026a031	ICAL	HEX_200			01/27/07 04:38	1.0	21
032	026a032	IB	CALIB			01/27/07 05:06	1.0	
033	026a033	ICAL	BUNK_50			01/27/07 05:35	1.0	22
034	026a034	ICAL	BUNK_500			01/27/07 06:03	1.0	23
035	026a035	ICAL	BUNK_1250			01/27/07 06:31	1.0	24
036	026a036	ICAL	BUNK_2500			01/27/07 06:59	1.0	25
037	026a037	ICAL	BUNK_5000			01/27/07 07:27	1.0	26
038	026a038	IB	CALIB			01/27/07 07:55	1.0	
039	026a039	ICAL	JP5_10			01/27/07 08:23	1.0	27
040	026a040	ICAL	JP5_100			01/27/07 08:52	1.0	28
041	026a041	ICAL	JP5_500			01/27/07 09:20	1.0	29
042	026a042	ICAL	JP5_1500			01/27/07 09:48	1.0	30
043	026a043	ICAL	JP5_3000			01/27/07 10:16	1.0	31
044	026a044	ICAL	JP5_5000			01/27/07 10:44	1.0	32
045	026a045	X	IB			01/27/07 11:12	1.0	

CP 01/29/07 : Need to re-run diesel ical. standards have concentrated and need to be re-made then re-run.

Analyst: CP Date: 01/29/07 Reviewer: MCH Date: 01/29/07

Standards used: 1=S5157 2=S5274 3=S4049 4=S4854 5=S4540 6=S4542 7=S4543 8=S4538 9=S4694 10=S4615 11=S4754 12=S4755 13=S4756 14=S4758 15=S4753 16=S4639 17=S4640 18=S4641 19=S5402 20=S4644 21=S4645 22=S4708 23=S4709 24=S4710 25=S4711 26=S4712 27=S4284 28=S4285 29=S4286 30=S4287 31=S4288 32=S4283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117061448

Instrument : GC11A
Method : EPA 8015B
Begun : 02/11/07 16:08
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	042a001	X	IB			02/11/07 16:08	1.0	
002	042a002	X	DSL_500			02/11/07 16:35	1.0	1
003	042a003	X	MO_500			02/11/07 17:03	1.0	2
004	042a004	X	MO_500			02/11/07 17:47	1.0	2
005	042a005	CCV	MO_500			02/11/07 18:33	1.0	2
006	042a006	CCV	DSL_500			02/11/07 19:02	1.0	1
007	042a007	CCV	DSL_500			02/11/07 19:30	1.0	1
008	042a008	X	IB			02/11/07 20:45	1.0	
009	042a009	ICAL	DSL_10			02/11/07 21:13	1.0	3
010	042a010	ICAL	DSL_100			02/11/07 21:41	1.0	4
011	042a011	ICAL	DSL_500			02/11/07 22:09	1.0	5
012	042a012	ICAL	DSL_1000			02/11/07 22:37	1.0	6
013	042a013	ICAL	DSL_5000			02/11/07 23:05	1.0	7
014	042a014	ICAL	DSL_7500			02/11/07 23:33	1.0	8
015	042a015	IB	CALIB			02/12/07 00:01	1.0	
016	042a016	ICV	DSL_500			02/12/07 00:28	1.0	9
017	042a017	XICV	DSL_500			02/12/07 00:57	1.0	9
018	042a018	X	IB			02/12/07 01:24	1.0	
019	042a019	CMARKER	C8-C50			02/12/07 09:23	1.0	10

CP 02/12/07 : carbon markers run after ical.

Analyst: CP Date: 02/12/07 Reviewer: MCH Date: 02/12/07

Standards used: 1=S5517 2=S4886 3=S5413 4=S5414 5=S5416 6=S5417 7=S5411 8=S5412 9=S5419 10=S4049

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117245263

Instrument : GC11A
Method : EPA 8015B

Begun : 06/19/07 07:43
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	170a001	X	PRIMER			06/19/07 07:43	1.0	
002	170a002	X	IB			06/19/07 08:11	1.0	
003	170a003	CMARKER	C8-C50			06/19/07 08:40	1.0	1
004	170a004	X	DSL_500			06/19/07 09:08	1.0	2
005	170a005	X	MO_500			06/19/07 09:36	1.0	3
006	170a006	X	MO_500			06/19/07 11:15	1.0	3
008	170a008	X	IB			06/19/07 12:29	1.0	
009	170a009	X	CMARKER			06/19/07 12:57	1.0	1
010	170a010	X	DSL_500			06/19/07 13:24	1.0	2
011	170a011	X	MO_500			06/19/07 13:52	1.0	3
012	170a012	IB	CALIB			06/19/07 15:16	1.0	
013	170a013	ICAL	HEX_5			06/19/07 15:44	1.0	4
014	170a014	ICAL	HEX_10			06/19/07 16:12	1.0	5
015	170a015	ICAL	HEX_25			06/19/07 16:39	1.0	6
016	170a016	ICAL	HEX_50			06/19/07 17:07	1.0	7
017	170a017	ICAL	HEX_100			06/19/07 17:35	1.0	8
018	170a018	ICAL	HEX_200			06/19/07 18:03	1.0	9
019	170a019	X	IB			06/19/07 18:30	1.0	

Analyst: DLM Date: 06/19/07 Reviewer: CW Date: 06/20/07

Standards used: 1=S4049 2=S6346 3=S6046 4=S5751 5=S5752 6=S5753 7=S5754 8=S5755 9=S5756

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117437373

Instrument : GC11A
Method : EPA 8015B

Begun : 10/30/07 17:33
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	303a001	X	PRIMER				10/30/07 17:33	1.0		
002	303a002	X	IB				10/30/07 18:00	1.0		
003	303a003	CMARKER	C8-C50				10/30/07 18:28	1.0	1	
004	303a004	CCV	DSL_500				10/30/07 18:56	1.0	2	
005	303a005	CCV	MO_500				10/30/07 19:24	1.0	3	
006	303a006	CCV	OTP_50				10/30/07 22:04	1.0	4	
007	303a007	SAMPLE	198682-001	S	Soil	131120	10/31/07 00:28	1.0		
008	303a008	SAMPLE	198682-003	S	Soil	131120	10/31/07 00:56	1.0		
009	303a009	MSS	198627-001	S	Soil	131086	10/31/07 01:24	1.0		
010	303a010	MS	QC412810	S	Soil	131086	10/31/07 01:51	1.0		
011	303a011	MSD	QC412811	S	Soil	131086	10/31/07 02:19	1.0		
012	303a012	X	IB				10/31/07 02:47	1.0		
013	303a013	SAMPLE	198682-004	S	Soil	131120	10/31/07 03:15	1.0		
014	303a014	SAMPLE	198682-005	S	Soil	131120	10/31/07 03:43	1.0		
015	303a015	SAMPLE	198682-006	S	Soil	131120	10/31/07 04:10	1.0		
016	303a016	SAMPLE	198682-007	S	Soil	131120	10/31/07 04:38	1.0		
017	303a017	X	IB				10/31/07 05:06	1.0		
018	303a018	SAMPLE	198682-008	S	Soil	131120	10/31/07 05:34	1.0		
019	303a019	CCV	DSL_250				10/31/07 06:02	1.0	5	
020	303a020	CCV	MO_500				10/31/07 06:30	1.0	3	
021	303a021	SAMPLE	198682-009	S	Soil	131120	10/31/07 07:27	1.0		
022	303a022	SAMPLE	198392-001		Water	131079	10/31/07 07:55	1.0		
023	303a023	SAMPLE	198392-002		Water	131079	10/31/07 08:23	1.0		
024	303a024	SAMPLE	198458-001		Water	131079	10/31/07 08:51	1.0		
025	303a025	SAMPLE	198510-005		Water	131081	10/31/07 09:19	1.0		
026	303a026	SAMPLE	198510-006		Water	131081	10/31/07 09:47	1.0		
027	303a027	BLANK	QC412921	S	Water	131108	10/31/07 10:15	1.0		
028	303a028	SAMPLE	198608-004	S	Water	131081	10/31/07 10:43	1.0		
029	303a029	SAMPLE	198608-005	S	Water	131081	10/31/07 11:11	1.0		
030	303a030	X	IB				10/31/07 11:51	1.0		
031	303a031	SAMPLE	198608-006	S	Water	131081	10/31/07 12:19	1.0		
032	303a032	X	CMARKER				10/31/07 12:47	1.0		
033	303a033	CCV	DSL_1000				10/31/07 13:15	1.0	6	
034	303a034	CCV	MO_500				10/31/07 13:43	1.0	3	
035	303a035	SAMPLE	198676-001	S	Water	131108	10/31/07 14:24	1.0		
036	303a036	SAMPLE	198676-003	S	Water	131108	10/31/07 14:52	1.0		
037	303a037	SAMPLE	198428-005	S	Water	131108	10/31/07 15:20	1.0		
038	303a038	SAMPLE	198428-004	S	Water	131108	10/31/07 15:49	1.0		
039	303a039	SAMPLE	198428-002	S	Water	131108	10/31/07 16:17	1.0		
040	303a040	SAMPLE	198428-001	S	Water	131108	10/31/07 16:45	1.0		
041	303a041	SAMPLE	198699-002	S	Soil	131086	10/31/07 20:45	1.0		2:BUNKC:12-50=8500
042	303a042	X	IB				10/31/07 21:13	1.0		
043	303a043	X	TANKCHK				10/31/07 21:41	1.0		
044	303a044	X	ACETONECHK				10/31/07 22:09	1.0		
045	303a045	SAMPLE	198745-005	S	Soil	131140	10/31/07 22:37	1.0		
046	303a046	CCV	DSL_500				10/31/07 23:05	1.0	2	
047	303a047	CCV	MO_500				10/31/07 23:33	1.0	3	
048	303a048	X	CCV				11/01/07 00:01	1.0	2	
049	303a049	X	CCV				11/01/07 00:28	1.0	3	
050	303a050	SAMPLE	198516-003	S	Water	131081	11/01/07 00:56	1.0		
051	303a051	SAMPLE	198818-005	S	Soil	131140	11/01/07 01:24	1.0		
052	303a052	SAMPLE	198818-006	S	Soil	131140	11/01/07 01:52	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117437373

Instrument : GC11A
Method : EPA 8015B
Begun : 10/30/07 17:33
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	303a053	SAMPLE	198818-007	S	Soil	131140	11/01/07 02:20	1.0		
054	303a054	SAMPLE	198811-003	S	Soil	131140	11/01/07 02:48	1.0		2:BUNKC:12-50=6900
055	303a055	X	IB				11/01/07 03:16	1.0		
056	303a056	SAMPLE	198516-008	S	Water	131081	11/01/07 03:44	1.0		
057	303a057	SAMPLE	198608-007	S	Water	131081	11/01/07 04:12	1.0		
058	303a058	SAMPLE	198608-002	S	Water	131081	11/01/07 04:40	1.0		
059	303a059	SAMPLE	198608-003	S	Water	131081	11/01/07 05:08	1.0		
060	303a060	X	IB				11/01/07 05:36	1.0		
061	303a061	SAMPLE	198729-003	S	Soil	131140	11/01/07 06:04	1.0		
062	303a062	X	CMARKER				11/01/07 06:32	1.0	1	
063	303a063	CCV	DSL_1000				11/01/07 07:00	1.0	6	
064	303a064	CCV	MO_500				11/01/07 07:29	1.0	3	

Standards used: 1=S7307 2=S6808 3=S7310 4=S6922 5=S6807 6=S6809

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227408183

Instrument : GC14B
Method : EPA 8015B

Begun : 10/10/07 11:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	283_001	IB	CALIB			10/10/07 11:03	1.0	
002	283_002	XCMARKER	C8-C50			10/10/07 11:32	1.0	1
003	283_003	ICAL	DSL_10			10/10/07 12:00	1.0	2
004	283_004	ICAL	DSL_100			10/10/07 12:29	1.0	3
005	283_005	ICAL	DSL_500			10/10/07 12:58	1.0	4
006	283_006	ICAL	DSL_1000			10/10/07 13:27	1.0	5
007	283_007	ICAL	DSL_5000			10/10/07 13:56	1.0	6
008	283_008	ICAL	DSL_7500			10/10/07 14:25	1.0	7
009	283_009	IB	CALIB			10/10/07 14:54	1.0	
010	283_010	ICV	DSL_500			10/10/07 15:23	1.0	8
011	283_011	IB	CALIB			10/10/07 15:51	1.0	
012	283_012	ICAL	MO_50			10/10/07 16:20	1.0	9
013	283_013	ICAL	MO_250			10/10/07 16:48	1.0	10
014	283_014	ICAL	MO_500			10/10/07 17:16	1.0	11
015	283_015	ICAL	MO_1000			10/10/07 17:44	1.0	12
016	283_016	XICAL	MO_5000			10/10/07 18:13	1.0	13
017	283_017	XICAL	MO_7500			10/10/07 18:41	1.0	14
018	283_018	IB	CALIB			10/10/07 19:09	1.0	
019	283_019	ICAL	HEX_5			10/10/07 19:38	1.0	15
020	283_020	ICAL	HEX_10			10/10/07 20:06	1.0	16
021	283_021	ICAL	HEX_25			10/10/07 20:34	1.0	17
022	283_022	ICAL	HEX_50			10/10/07 21:03	1.0	18
023	283_023	ICAL	HEX_100			10/10/07 21:31	1.0	19
024	283_024	ICAL	HEX_200			10/10/07 22:00	1.0	20
025	283_025	IB	CALIB			10/10/07 22:28	1.0	
026	283_026	ICAL	OTP_5			10/10/07 22:57	1.0	21
027	283_027	ICAL	OTP_10			10/10/07 23:25	1.0	22
028	283_028	ICAL	OTP_25			10/10/07 23:54	1.0	23
029	283_029	ICAL	OTP_50			10/11/07 00:22	1.0	24
030	283_030	ICAL	OTP_100			10/11/07 00:51	1.0	25
031	283_031	IB	CALIB			10/11/07 01:19	1.0	
032	283_032	ICAL	JETA_10			10/11/07 01:48	1.0	26
033	283_033	ICAL	JETA_100			10/11/07 02:16	1.0	27
034	283_034	ICAL	JETA_500			10/11/07 02:45	1.0	28
035	283_035	ICAL	JETA_1000			10/11/07 03:13	1.0	29
036	283_036	ICAL	JETA_2000			10/11/07 03:41	1.0	30
037	283_037	IB	CALIB			10/11/07 04:10	1.0	
038	283_038	X	IB			10/11/07 09:38	1.0	
039	283_039	IB	CALIB			10/11/07 10:06	1.0	
040	283_040	ICAL	MO_5000			10/11/07 10:35	1.0	13
041	283_041	XICAL	MO_7500			10/11/07 11:03	1.0	14
042	283_042	IB	CALIB			10/11/07 11:32	1.0	

Analyst: JDG Date: 10/11/07 Reviewer: LH Date: 10/11/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847 15=S7036 16=S7037 17=S7038 18=S7039 19=S7040 20=S7041 21=S6397 22=S6398 23=S6399 24=S6400 25=S6401 26=S6528 27=S6529 28=S6530 29=S6531 30=S6532

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227437629

Instrument : GC14B
Method : EPA 8015B

Begun : 10/30/07 21:49
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	303_001	X	IB				10/30/07 21:49	1.0		
002	303_002	X	CMARKER				10/30/07 22:17	1.0	1	
003	303_003	CCV	DSL_500				10/30/07 22:46	1.0	2	
004	303_004	CCV	MO_500				10/30/07 23:14	1.0	3	
005	303_005	CCV	OTP_50				10/31/07 00:22	1.0	4	
006	303_006	BLANK	QC412808	S	Soil	131086	10/31/07 00:51	1.0		
007	303_007	SAMPLE	198679-007		Soil	131120	10/31/07 01:20	1.0		2:BUNKC:12-40=11000
008	303_008	SAMPLE	198679-008		Soil	131120	10/31/07 01:48	1.0		
009	303_009	SAMPLE	198679-009		Soil	131120	10/31/07 02:16	1.0		
010	303_010	SAMPLE	198679-011		Soil	131120	10/31/07 02:45	1.0		
011	303_011	X	IB				10/31/07 03:13	1.0		
012	303_012	SAMPLE	198627-002	S	Soil	131086	10/31/07 03:41	1.0		
013	303_013	SAMPLE	198627-003	S	Soil	131086	10/31/07 04:10	1.0		
014	303_014	SAMPLE	198627-004	S	Soil	131086	10/31/07 04:38	1.0		
015	303_015	SAMPLE	198682-002	S	Soil	131120	10/31/07 05:07	1.0		
016	303_016	X	IB				10/31/07 05:35	1.0		
017	303_017	SAMPLE	198627-005	S	Soil	131086	10/31/07 06:04	1.0		
018	303_018	CCV	DSL_250				10/31/07 06:32	1.0	5	
019	303_019	CCV	MO_500				10/31/07 07:01	1.0	3	
020	303_020	CCV	OTP_50				10/31/07 07:29	1.0	4	
021	303_021	MS	QC412810	S	Soil	131086	10/31/07 08:21	1.0		
022	303_022	MSD	QC412811	S	Soil	131086	10/31/07 08:49	1.0		
023	303_023	BS	QC412789	S	Water	131081	10/31/07 09:18	1.0		
024	303_024	BSD	QC412790	S	Water	131081	10/31/07 09:46	1.0		
025	303_025	BLANK	QC412788	S	Water	131081	10/31/07 10:15	1.0		
026	303_026	SAMPLE	198791-001	S	Water	131108	10/31/07 10:43	1.0		
027	303_027	X	IB				10/31/07 11:11	1.0		
028	303_028	SAMPLE	198516-004	S	Water	131081	10/31/07 11:40	1.0		
029	303_029	SAMPLE	198516-005	S	Water	131081	10/31/07 12:08	1.0		
030	303_030	SAMPLE	198516-006	S	Water	131081	10/31/07 12:37	1.0		
031	303_031	SAMPLE	198516-007	S	Water	131081	10/31/07 13:05	1.0		
032	303_032	X	CMARKER				10/31/07 13:34	1.0	1	
033	303_033	CCV	DSL_1000				10/31/07 14:03	1.0	6	
034	303_034	CCV	MO_500				10/31/07 14:31	1.0	3	
035	303_035	X	TANKCHECK				10/31/07 15:07	1.0		
036	303_036	CCV	OTP_50				10/31/07 15:35	1.0	4	
037	303_037	SAMPLE	198811-002	S	Soil	131140	10/31/07 20:36	1.0		
038	303_038	MSS	198818-004	S	Soil	131140	10/31/07 21:05	1.0		14:BUNKC:12-40=36000
039	303_039	MS	QC413042	S	Soil	131140	10/31/07 21:33	1.0		15:BUNKC:12-40=34000
040	303_040	MSD	QC413043	S	Soil	131140	10/31/07 22:02	1.0		7:BUNKC:12-40=28000
041	303_041	SAMPLE	198788-005	S	Soil	131140	10/31/07 22:30	1.0		2:BUNKC:12-50=6300
042	303_042	X	IB				10/31/07 22:59	1.0		
043	303_043	SAMPLE	198818-003	S	Soil	131140	10/31/07 23:27	1.0		
044	303_044	SAMPLE	198818-001	S	Soil	131140	10/31/07 23:56	1.0		2:JP5:10-16=5100
045	303_045	SAMPLE	198818-002	S	Soil	131140	11/01/07 00:24	1.0		1:JETA:10-16=3500
046	303_046	SAMPLE	198818-010	S	Soil	131140	11/01/07 00:53	1.0		
047	303_047	X	IB				11/01/07 01:21	1.0		
048	303_048	SAMPLE	198811-001	S	Soil	131140	11/01/07 01:50	1.0		
049	303_049	CCV	DSL_500				11/01/07 02:18	1.0	2	
050	303_050	CCV	MO_500				11/01/07 02:47	1.0	3	
051	303_051	X	CCV				11/01/07 03:15	1.0	2	
052	303_052	X	CCV				11/01/07 03:44	1.0	3	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227437629

Instrument : GC14B
Method : EPA 8015B

Begun : 10/30/07 21:49
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	303_053	LCS	QC413041	S	Soil	131140	11/01/07 04:12	1.0		
054	303_054	BLANK	QC413040	S	Soil	131140	11/01/07 04:41	1.0		
055	303_055	SAMPLE	198775-003		Soil	131140	11/01/07 05:09	1.0		
056	303_056	SAMPLE	198775-007		Soil	131140	11/01/07 05:38	1.0		
057	303_057	SAMPLE	198775-001		Soil	131140	11/01/07 06:06	5.0		
058	303_058	SAMPLE	198775-002		Soil	131140	11/01/07 06:35	1.0		
059	303_059	SAMPLE	198775-005		Soil	131140	11/01/07 07:04	5.0		
060	303_060	SAMPLE	198775-006		Soil	131140	11/01/07 07:32	1.0		
061	303_061	X	IB				11/01/07 08:01	1.0		
062	303_062	SAMPLE	198672-001		Water	131125	11/01/07 08:30	10.0		
063	303_063	X	IB				11/01/07 08:58	1.0		
064	303_064	BLANK	QC413040		Soil	131140	11/01/07 09:27	1.0		
065	303_065	X	CMARKER				11/01/07 09:55	1.0	1	
066	303_066	CCV	DSL_250				11/01/07 10:51	1.0	5	
067	303_067	CCV	MO_500				11/01/07 11:19	1.0	3	
068	303_068	CCV	OTP_50				11/01/07 11:48	1.0	4	
069	303_069	MSS	198620-019		Water	131030	11/01/07 12:20	1.0		
070	303_070	MS	QC412586		Water	131030	11/01/07 12:49	1.0		
071	303_071	MSD	QC412587		Water	131030	11/01/07 13:17	1.0		
072	303_072	SAMPLE	198620-022		Water	131030	11/01/07 13:46	1.0		
073	303_073	SAMPLE	198620-031		Water	131030	11/01/07 14:14	1.0		
074	303_074	SAMPLE	198620-030		Water	131030	11/01/07 14:43	1.0		
075	303_075	SAMPLE	198620-041		Water	131030	11/01/07 15:12	1.0		
076	303_076	SAMPLE	198620-018		Water	131030	11/01/07 15:40	1.0		
077	303_077	X	IB				11/01/07 16:09	1.0		
078	303_078	SAMPLE	198620-042		Water	131079	11/01/07 16:37	1.0		
079	303_079	X	IB				11/02/07 00:09	1.0		
080	303_080	SAMPLE	198533-004	S	Soil	131205	11/02/07 00:37	1.0		
081	303_081	CCV	DSL_1000				11/02/07 01:06	1.0	6	
082	303_082	CCV	MO_500				11/02/07 01:34	1.0	3	
083	303_083	CCV	KERO_250				11/02/07 02:03	1.0	7	
084	303_084	X	CCV				11/02/07 02:31	1.0	6	
085	303_085	X	CCV				11/02/07 03:00	1.0	3	
086	303_086	X	CCV				11/02/07 03:29	1.0	7	
087	303_087	LCS	QC413299	S	Soil	131205	11/02/07 03:57	1.0		
088	303_088	BLANK	QC413298	S	Soil	131205	11/02/07 04:26	1.0		
089	303_089	BLANK	QC413298		Soil	131205	11/02/07 04:54	1.0		
090	303_090	MSS	198767-005	S	Soil	131205	11/02/07 05:23	1.0		
091	303_091	MS	QC413300	S	Soil	131205	11/02/07 05:52	1.0		
092	303_092	MSD	QC413301	S	Soil	131205	11/02/07 06:20	1.0		
093	303_093	SAMPLE	198759-001		Soil	131205	11/02/07 06:49	1.0		
094	303_094	SAMPLE	198837-001	S	Soil	131205	11/02/07 07:17	1.0		
095	303_095	SAMPLE	198825-005		Soil	131205	11/02/07 07:46	20.0		
096	303_096	X	IB				11/02/07 08:14	1.0		
097	303_097	SAMPLE	198815-001	S	Soil	131205	11/02/07 08:43	1.0		
098	303_098	X	CMARKER				11/02/07 09:12	1.0	1	
099	303_099	CCV	DSL_500				11/02/07 09:41	1.0	2	
100	303_100	CCV	MO_500				11/02/07 10:09	1.0	3	
101	303_101	CCV	KERO_250				11/02/07 10:38	1.0	7	
102	303_102	CCV	OTP_50				11/02/07 11:06	1.0	4	
103	303_103	SAMPLE	198694-001		Water	131166	11/02/07 11:35	1.0		
104	303_104	SAMPLE	198620-042		Water	131079	11/02/07 12:03	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227437629

Instrument : GC14B
Method : EPA 8015B

Begun : 10/30/07 21:49
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	303_105	SAMPLE	198620-041		Water	131030	11/02/07 12:32	1.0		
106	303_106	SAMPLE	198620-047		Water	131079	11/02/07 13:01	1.0		
107	303_107	CCV	DSL_250				11/02/07 13:29	1.0	5	
108	303_108	CCV	MO_500				11/02/07 13:58	1.0	3	
109	303_109	CCV	OTP_50				11/02/07 14:26	1.0	4	

Standards used: 1=S6952 2=S6808 3=S7310 4=S6922 5=S6807 6=S6809 7=S6928

REPORTING SUMMARY FOR 198818 GCSV Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
198818-001	GC14B	10/31/07 23:56	1.0	+	+	+	
198818-002	GC14B	11/01/07 00:24	1.0	+	+	+	
198818-003	GC14B	10/31/07 23:27	1.0	+	+	+	
198818-004	GC14B	10/31/07 21:05	1.0	+	+	+	
198818-005	GC11A	11/01/07 01:24	1.0	+	+	+	
198818-006	GC11A	11/01/07 01:52	1.0	+	+	+	
198818-007	GC11A	11/01/07 02:20	1.0	+	+	+	
198818-010	GC14B	11/01/07 00:53	1.0	+	+	+	
QC413040	GC14B	11/01/07 04:41	1.0	+	+	+	
QC413040	GC14B	11/01/07 09:27	1.0				
QC413041	GC14B	11/01/07 04:12	1.0	+		+	
QC413042	GC14B	10/31/07 21:33	1.0	+		+	
QC413043	GC14B	10/31/07 22:02	1.0	+		+	

SAMPLE PREPARATION SUMMARY

Batch # : 131140
Started By : SHD
Method : 3550B
Spike #1 ID : S7552

Prep Date : 31-OCT-2007

Spike #2 ID : S7448

Analysis : TEH
Finished By : SHD
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198729-003		Soil	50.38	5	1	0.09925		1			3630C	TEHM	
198745-005		Soil	50.48	5	1	0.09905		1			3630C	TEHM	
198775-001		Soil	50.15	5	1	0.0997		1				TEHM	
198775-002		Soil	50.44	5	1	0.09913		1				TEHM	
198775-003		Soil	50.24	5	1	0.09952		1				TEHM	
198775-005		Soil	50.27	5	1	0.09946		1				TEHM	
198775-006		Soil	50.35	5	1	0.0993		1				TEHM	
198775-007		Soil	50.19	5	1	0.09962		1				TEHM	
198788-005		Soil	50.4	5	1	0.09921		1			3630C	TEHM	
198811-001		Soil	50.36	5	1	0.09929		1			3630C	TEHM	
198811-002		Soil	50.42	5	1	0.09917		1			3630C	TEHM	
198811-003		Soil	50.26	5	1	0.09948		1			3630C	TEHM	
198818-001		Soil	50.29	5	1	0.09942		1			3630C	TEHM	
198818-002		Soil	50.34	5	1	0.09932		1			3630C	TEHM	
198818-003		Soil	50.13	5	1	0.09974		1			3630C	TEHM	
198818-004		Soil	50.16	5	1	0.09968		1			3630C	TEHM	MSS
198818-005		Soil	50.25	5	1	0.0995		1			3630C	TEHM	
198818-006		Soil	50.09	5	1	0.09982		1			3630C	TEHM	
198818-007		Soil	50.1	5	1	0.0998		1			3630C	TEHM	
198818-010		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
QC413040	BLANK	Soil	50.38	5	1	0.09925		1			3630C		
QC413041	LCS	Soil	50.25	5	1	0.0995		1	1		3630C		
QC413042	MS	Soil	50.31	5	1	0.09938		1	1		3630C		of 198818-004
QC413043	MSD	Soil	50.22	5	1	0.09956		1	1		3630C		of 198818-004

Analyst: ATL Date: 11/01/07 Reviewer: LH Date: 11/01/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 46

LIMS Batch No: 131140
LIMS Analysis TEHM
Date Extracted: 10/31/07

Extraction Method:
☑ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198729-083	50.38	5.0	X	
	198745-005	50.48		X	
	198775-001	50.16			
	-002	50.44			
5	-003	50.24			
	-005	50.27			
	-006	50.35			
	-007	50.19			
	198788-005	50.40		X	
10	198811-001	50.36		X	
	-002	50.42		X	
	-003	50.26		X	
	198817-001 (198817-009) JM 11/1/07	50.02		X	aliased 198817-001
	198818-001	50.29		X	
15	-002	50.34		X	
	-003	50.13		X	
	-004	50.16		X	MS
	-005	50.25		X	
	-006	50.09		X	
20	-007	50.10		X	
	MB QC413040	50.38		X	
	LCS 41	50.15		X	
	MS 42	50.31		X	of 198818-004
	MSD 43	50.22		X	
					80 10/31/07

powder RCW 10/31/07 — RCW 10/31/07

Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples
Samples were dried with CH2Cl2-rinsed powdered Na2SO4
1.0 mL of Surrogate solution was added to all samples
1.0 mL of Matrix Spiking solution was added to all spikes
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:
Extracts filtered through baked, rinsed powdered Na_2SO_4
Concentrated to volumes as noted above
Relinquished to TEH Department

	Mfg & Lot # / LIMS # / Time	Date/Initials
	EM 47073734/EM47092 RCW 10/31/07	80 10/31/07
	↓ EM47073734	
	57552E	
	57448C	
CH_2Cl_2	EM47092	
Acetone	EM47154	
	840	
	1045	
	EM47073734	
	✓	↓

10/31/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

10/31/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: BD
Cleanup Date: 10/31/07

Benchbook # **BK 2585**
Page 96

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
198729-003	131140	1.0	1.0	
198745-005				
198788-005 Rev 10/31/07				
198817-001 ~~-002~~ only 11/1/07				aliased 198817-001
198818-001				
-002				
-003				
-004				MS
-005				
-006				
-007				
198811-001				
-002				
-003				
MB QC 413040				
LCS 41				
MS 42				
MSD 43				

BD 10/31/07

☐ Extracts were cleaned up using C&T assembled ___ g columns
☑ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 40 mL CH_2Cl_2
Concentrated to volumes as noted above

	Mfg & Lot # / Time / Program	Initials / Date
	NA	BD 10/31/07
	SP9092	
	EM 49177	
	✓	

10/31/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

10/31/07
Reviewed by / Date

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
198627-001 M	30.04	8081		MSS
-002 E	30.15			
-003 ↓	30.16			
-004 D	30.13			
-005 ↓	30.18			
MB	30.03			EM47158737
LCS	30.20			↓
MS	30.18			198627-001 M
MSD	30.30			↓
198682-001 D	30.34	8270-SIM	KML 10/26/07	
-002	30.38			
-003	30.10			
-004	30.03			
-005	30.08			
-006	30.42			
-007	30.08			
-008	30.40			
-009 ↓	30.04			
198627-001 M	30.43			MSS
-002 E	30.16			
-003 ↓	30.17			
-004 D	30.34			
-005 ↓	30.15			
MB	30.22			EM47158737
LCS	30.29			↓
MS	30.14			198627-001M
MSD	30.41			↓
198745-005A	50.48	TEHM	KML 10/20/07 13/140	
			KML 10/26/07	

Continued on Page

Read and Understood By

Sample ID	Weight (g)	Analysis	Batch #	Comments
198811-001 A	50.36	TEHM	131140	
-002	50.42			
-003	50.26			
~~198817-001A~~ 818-819	30.44	8270-SIM KML 10/30/07		aliqued 198817-001 A
198818-001 ~~A~~ D	30.10			strong odor
-002	30.36			
-003	30.25			
-004 J	30.18			MSS strong odor
-005 D	30.04			
-006	30.35			
-007	30.04			rocks EM47158737
MB	30.07			198818-004 J
LCS	30.02			
MS	30.12			
MSD	30.01			
198815-001 A	50.01	TEHM KML 10/30/07		
~~198817-001A~~ 818-819	50.02		131140	aliqued 198817-001 A
198818-001 D	50.29			strong odor
-002	50.31			
-003	50.13			MSS strong odor
-004 K	50.16			
-005 D	50.25			
-006	50.09			rocks EM47158737
-007	50.10			198818-004 K
MB	50.38			
LCS	50.25			
MS	50.31			
MSD	50.22			
198825-005	30.09	8270 KML 10/30/07		comp 001, 002, 003, 004 @ 30g each all with A
198825-005	50.17	TEHM KML 10/30/07		comp 001, 002, 003, 004 @ 30g each all with A

Continued on Page

Read and Understood By

Signed Date Signed Date

Project 2011 Milgon PKZ5880

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
198668-005A	50.18	TEHM		
198775-001A	50.15		131140	
-002	50.44			
-003	50.24			
-005	50.27			
-006	50.35			
-007	50.19			
-018	30.06	8081		
-019	30.15			
-020	30.50			
			XML 10/29/07	
198788-005	50.40	TEHM	131140	Comp 001, 002 aliquots A, 003, 004 @ $30 each
			XML 10/29/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
198735-001	30.29	8270 SIM		comp 197941-001 A-D @ 20g each
↓ -002	30.00	↓		↓ -002 A-D @ 20g each
				KML 10/26/07
198699-001 A	50.23	TEHM		
↓ -002 ↓	50.39			
198682-001 D	50.39			
-002	50.35			
-003	50.29			
-004	50.08			
-005	50.32			
-006	50.28			
-007	50.07			
-008	50.02			
↓ -009 ↓	50.31			
198729-003	50.38			13:40 comp 001A, 002A @ 50g each
198627-001 K	50.35			MSS
-002 E	50.19			
-003 E	50.11			
-004 D	50.20			
↓ -005 D	50.23			
MB	50.31			EM47158737
LCS	50.04			↓
MS	50.04			198627-001 K
MSD	50.11	↓		↓
				KML 10/26/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd.

Volatile Organics
Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX353RBEX354	Batch#:	131138
Lab ID:	198818-008	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Analyzed:	10/31/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.3
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.8
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	0.6 J	10	0.4
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.3
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.2
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.08
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.3
cis-1,3-Dichloropropene	ND	0.5	0.09
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.07
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.07
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.04
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.06
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.03
Styrene	ND	0.5	0.04
Bromoform	ND	1.0	0.07
Isopropylbenzene	ND	0.5	0.04
1,1,2,2-Tetrachloroethane	ND	0.5	0.07
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.03
Bromobenzene	ND	0.5	0.05
1,3,5-Trimethylbenzene	ND	0.5	0.04

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

31.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX353RBEX354	Batch#:	131138
Lab ID:	198818-008	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Analyzed:	10/31/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.06
4-Chlorotoluene	ND	0.5	0.05
tert-Butylbenzene	ND	0.5	0.05
1,2,4-Trimethylbenzene	ND	0.5	0.04
sec-Butylbenzene	ND	0.5	0.05
para-Isopropyl Toluene	ND	0.5	0.08
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.07
n-Butylbenzene	ND	0.5	0.07
1,2-Dichlorobenzene	ND	0.5	0.07
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	103	74-137
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	131137
Lab ID:	198818-009	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Analyzed:	10/31/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.09
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	1.2 J	10	0.5
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	0.4 J	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.07
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.1
1,1-Dichloroethane	ND	0.5	0.08
2-Butanone	ND	10	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.08
Bromochloromethane	ND	0.5	0.09
1,1,1-Trichloroethane	ND	0.5	0.06
1,1-Dichloropropene	ND	0.5	0.05
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.05
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	0.09
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.08
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.07
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.05
1,1,2-Trichloroethane	ND	0.5	0.07
2-Hexanone	ND	10	0.06
1,3-Dichloropropane	ND	0.5	0.06
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.07
1,2-Dibromoethane	ND	0.5	0.05
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.05
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.08
o-Xylene	ND	0.5	0.04
Styrene	ND	0.5	0.03
Bromoform	ND	1.0	0.06
Isopropylbenzene	ND	0.5	0.03
1,1,2,2-Tetrachloroethane	ND	0.5	0.07
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.03
Bromobenzene	ND	0.5	0.04
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

32.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	131137
Lab ID:	198818-009	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Analyzed:	10/31/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.05
4-Chlorotoluene	ND	0.5	0.07
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.04
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.04
1,4-Dichlorobenzene	ND	0.5	0.04
n-Butylbenzene	ND	0.5	0.05
1,2-Dichlorobenzene	ND	0.5	0.05
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.08
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	97	74-137
Toluene-d8	97	80-120
Bromofluorobenzene	118	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413031	Batch#:	131137
Matrix:	Water	Analyzed:	10/31/07
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.09
Bromomethane	0.4 J	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.07
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.1
1,1-Dichloroethane	ND	0.5	0.08
2-Butanone	ND	10	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.08
Bromochloromethane	ND	0.5	0.09
1,1,1-Trichloroethane	ND	0.5	0.06
1,1-Dichloropropene	ND	0.5	0.05
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.05
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	0.09
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.08
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.07
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.05
1,1,2-Trichloroethane	ND	0.5	0.07
2-Hexanone	ND	10	0.06
1,3-Dichloropropane	ND	0.5	0.06
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.07
1,2-Dibromoethane	ND	0.5	0.05
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.05
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.08
o-Xylene	ND	0.5	0.04
Styrene	ND	0.5	0.03
Bromoform	ND	1.0	0.06
Isopropylbenzene	ND	0.5	0.03
1,1,2,2-Tetrachloroethane	ND	0.5	0.07
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.03
Bromobenzene	ND	0.5	0.04

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413031	Batch#:	131137
Matrix:	Water	Analyzed:	10/31/07
Units:	ug/L		

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.05
4-Chlorotoluene	ND	0.5	0.07
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.04
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	0.05 J	0.5	0.04
1,4-Dichlorobenzene	0.1 J	0.5	0.04
n-Butylbenzene	ND	0.5	0.05
1,2-Dichlorobenzene	ND	0.5	0.05
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.08
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	0.5 J b	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	96	74-137
Toluene-d8	97	80-120
Bromofluorobenzene	116	80-120

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413035	Batch#:	131138
Matrix:	Water	Analyzed:	10/31/07
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.3
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.8
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.4
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.3
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.2
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.08
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.3
cis-1,3-Dichloropropene	ND	0.5	0.09
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.07
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.07
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.04
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.06
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.03
Styrene	ND	0.5	0.04
Bromoform	ND	1.0	0.07
Isopropylbenzene	ND	0.5	0.04
1,1,2,2-Tetrachloroethane	ND	0.5	0.07
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.03
Bromobenzene	ND	0.5	0.05
1,3,5-Trimethylbenzene	ND	0.5	0.04
2-Chlorotoluene	ND	0.5	0.06

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

36.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413035	Batch#:	131138
Matrix:	Water	Analyzed:	10/31/07
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.05
tert-Butylbenzene	ND	0.5	0.05
1,2,4-Trimethylbenzene	ND	0.5	0.04
sec-Butylbenzene	ND	0.5	0.05
para-Isopropyl Toluene	ND	0.5	0.08
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.07
n-Butylbenzene	ND	0.5	0.07
1,2-Dichlorobenzene	ND	0.5	0.07
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-122
1,2-Dichloroethane-d4	100	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	131137
Units:	ug/L	Analyzed:	10/31/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413029

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.48	102	80-133
Benzene	25.00	25.58	102	80-120
Trichloroethene	25.00	24.28	97	80-120
Toluene	25.00	25.15	101	80-122
Chlorobenzene	25.00	24.60	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	94	74-137
Toluene-d8	101	80-120
Bromofluorobenzene	103	80-120

Type: BSD Lab ID: QC413030

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	23.90	96	80-133	6	20
Benzene	25.00	24.24	97	80-120	5	20
Trichloroethene	25.00	23.01	92	80-120	5	20
Toluene	25.00	23.65	95	80-122	6	20
Chlorobenzene	25.00	23.85	95	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	94	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	131138
Units:	ug/L	Analyzed:	10/31/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413033

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	22.41	90	80-133
Benzene	25.00	22.93	92	80-120
Trichloroethene	25.00	23.33	93	80-120
Toluene	25.00	23.32	93	80-122
Chlorobenzene	25.00	23.39	94	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	102	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-120

Type: BSD Lab ID: QC413034

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	21.84	87	80-133	3	20
Benzene	25.00	23.41	94	80-120	2	20
Trichloroethene	25.00	23.40	94	80-120	0	20
Toluene	25.00	23.19	93	80-122	1	20
Chlorobenzene	25.00	23.37	93	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-122
1,2-Dichloroethane-d4	100	74-137
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-120

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Water
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 447396473007 File : ej207 Time : 02-OCT-2007 10:40

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	5919	20.15	
75	30% - 60% of mass 95	13451	45.79	
95		29373		
96	5% - 9% of mass 95	1934	6.58	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	19256	65.56	
175	5% - 9% of mass 174	1373	7.13	
176	> 95% and < 101% of mass 174	18837	97.82	
177	5% - 9% of mass 176	1183	6.28	

Analyst: BO Date: 10/02/07 Reviewer: LW Date: 10/03/07

447396473007

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Water
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 447438217002 File : ejv02 Time : 31-OCT-2007 08:06

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	4019	32.03	
75	30% - 60% of mass 95	5948	47.40	
95		12548		
96	5% - 9% of mass 95	1006	8.02	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	9329	74.35	
175	5% - 9% of mass 174	711	7.62	
176	> 95% and < 101% of mass 174	9093	97.47	
177	5% - 9% of mass 176	617	6.79	

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

447438217002

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 487426947003 File : ijn03 Time : 23-OCT-2007 13:20

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	16060	18.81	
75	30% - 60% of mass 95	34640	40.57	
95		85392		
96	5% - 9% of mass 95	5423	6.35	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	64013	74.96	
175	5% - 9% of mass 174	5226	8.16	
176	> 95% and < 101% of mass 174	64048	100.05	
177	5% - 9% of mass 176	4328	6.76	

Analyst: JCP Date: 10/24/07 Reviewer: LW Date: 10/24/07

487426947003

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 487438254002 File : ijv02 Time : 31-OCT-2007 08:50

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12899	18.04	
75	30% - 60% of mass 95	27693	38.73	
95		71506		
96	5% - 9% of mass 95	5140	7.19	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	50173	70.17	
175	5% - 9% of mass 174	4181	8.33	
176	> 95% and < 101% of mass 174	49090	97.84	
177	5% - 9% of mass 176	3003	6.12	

Analyst: JCP Date: 11/01/07 Reviewer: LW Date: 11/01/07

487438254002

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 487438254010 File : ijv10 Time : 31-OCT-2007 13:35

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	9718	16.93	
75	30% - 60% of mass 95	22501	39.19	
95		57416		
96	5% - 9% of mass 95	4062	7.07	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	47554	82.82	
175	5% - 9% of mass 174	3228	6.79	
176	> 95% and < 101% of mass 174	45264	95.18	
177	5% - 9% of mass 176	2844	6.28	

Analyst: JCP Date: 11/01/07 Reviewer: LW Date: 11/01/07

487438254010

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 MSVOA Water: EPA 8260B

Inst : MSVOA05
Calnum : 447396473001
Units : ug/L

Name : 826GOX5
Date : 02-OCT-2007 11:25
X Axis : R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ej209	447396473009	0.25/0.5PPB	02-OCT-2007 11:25	S7150 (200000X), S7149 (100000X), S7235 (200000X), S6961 (5000X)
L2	ej210	447396473010	0.5/1PPB	02-OCT-2007 11:56	S7150 (100000X), S7149 (50000X), S7235 (100000X), S6961 (5000X)
L3	ej211	447396473011	2PPB	02-OCT-2007 12:28	S7150 (25000X), S7149 (25000X), S7235 (50000X), S6961 (5000X)
L4	ej212	447396473012	5PPB	02-OCT-2007 13:00	S7150 (10000X), S7149 (10000X), S7235 (20000X), S6961 (5000X)
L5	ej213	447396473013	10PPB	02-OCT-2007 13:32	S7150 (5000X), S7149 (5000X), S7235 (10000X), S6961 (5000X)
L6	ej214	447396473014	20PPB	02-OCT-2007 14:04	S7147 (25000X), S7198 (25000X), S6352 (50000X), S6961 (5000X)
L7	ej215	447396473015	50PPB	02-OCT-2007 14:36	S7147 (10000X), S7198 (10000X), S6352 (20000X), S6961 (5000X)
L8	ej216	447396473016	75PPB	02-OCT-2007 15:08	S7147 (6667X), S7198 (6667X), S6352 (13330X), S6961 (5000X)
L9	ej217	447396473017	100PPB	02-OCT-2007 15:40	S7147 (5000X), S7198 (5000X), S6352 (10000X), S6961 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.4295	0.4218	0.4724	0.4639	0.4892	0.6301m	0.5366	0.6360	0.6066	QUAD	0.48739	1.76773	-0.00258	0.5207	0.996	15	0.05	0.99	
Chloromethane		0.7007m	0.6966	0.7318m	0.6307m	0.7135m	0.7061	0.6973	0.6825	AVRG		1.43906		0.6949	4	15	0.10	0.99	
Vinyl Chloride	0.7057	0.5831	0.6408	0.7144	0.6509	0.7658m	0.7102	0.7177	0.6962	AVRG		1.45517		0.6872	8	15	0.05	0.99	
Bromomethane		0.3595	0.4329m	0.4832m	0.4234m	0.4934m	0.5291m	0.5249m	0.5146m	AVRG		2.12719		0.4701	13	15	0.05	0.99	
Chloroethane		0.3400	0.3952	0.4546	0.3874	0.4254m	0.4147	0.4088	0.4015	AVRG		2.47864		0.4034	8	15	0.05	0.99	
Trichlorofluoromethane		0.8217	0.9065	0.9295	0.9542	1.0509m	0.9221	1.0000	0.9595	AVRG		1.06038		0.9431	7	15	0.05	0.99	
Acetone			0.4137	0.3311	0.3034	0.3127	0.3455	0.3129	0.3000	AVRG		3.01815		0.3313	12	15	0.05	0.99	
Freon 113	0.2808	0.2710	0.4875	0.5284	0.5655m	0.3689m	0.5156	0.5548	0.5641	QUAD	0.46299	2.06064	-0.00551	0.4596	0.997	15	0.05	0.99	
1,1-Dichloroethene		0.4205	0.4551	0.5221m	0.5165m	0.4342m	0.5098	0.5013	0.5092	AVRG		2.06790		0.4836	8	15	0.05	0.99	
Methylene Chloride			0.8891	0.8818	0.7838	0.7991	0.7780	0.7281	0.7112	AVRG		1.25651		0.7959	9	15	0.05	0.99	
Carbon Disulfide		1.6673	1.9523m	1.9967	1.8715m	1.9418	1.9959	2.2199	2.1740	AVRG		0.50571		1.9774	9	15	0.05	0.99	
MTBE		1.4820	1.8277	1.8574	1.8948	1.9539	1.9824	1.8432	1.8602	AVRG		0.54416		1.8377	8	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5544	0.6200	0.6899m	0.6495m	0.6099	0.6525	0.6200	0.6326	AVRG		1.59086		0.6286	6	15	0.05	0.99	
Vinyl Acetate				1.6893	1.6897	2.3238	2.3048	2.2241	2.1469	AVRG		0.48471		2.0631	14	15	0.05	0.99	
1,1-Dichloroethane		1.1295	1.2439	1.3976m	1.2653	1.2474	1.2757	1.2152	1.1778	AVRG		0.80383		1.2440	6	15	0.10	0.99	
2-Butanone			0.5066	0.5103	0.5252m	0.5146	0.5434	0.5091	0.4776	AVRG		1.95155		0.5124	4	15	0.05	0.99	
2,2-Dichloropropane		0.5970	0.7645	0.8523	0.7929	0.6769	0.7635	0.7468	0.7201	AVRG		1.35270		0.7393	10	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6090	0.6427	0.7225	0.6762m	0.6712	0.6849	0.6555	0.6393	AVRG		1.50904		0.6627	5	15	0.05	0.99	
Chloroform		1.1881	1.2056	1.3270	1.1908	1.1896	1.1867	1.1072	1.1000	AVRG		0.84255		1.1869	6	15	0.05	0.99	
Bromochloromethane		0.2603	0.3131	0.3217	0.3078	0.3224	0.3277	0.2999	0.2970	AVRG		3.26549		0.3062	7	15	0.05	0.99	
1,1,1-Trichloroethane		0.6451	0.7959	0.9158	0.8606	0.7230	0.8133	0.8213	0.8283	AVRG		1.24936		0.8004	10	15	0.05	0.99	
1,1-Dichloropropene		0.3393	0.4689	0.5404	0.5217	0.4236	0.4845	0.5060	0.5090	AVRG		2.10893		0.4742	14	15	0.05	0.99	
Carbon Tetrachloride		0.2701	0.3676	0.4018	0.4139	0.3164	0.3756	0.4028	0.4054	AVRG		2.70859		0.3692	14	15	0.05	0.99	
1,2-Dichloroethane		0.5035	0.5842	0.5893	0.5575	0.5779	0.5608	0.5373	0.5358	AVRG		1.79929		0.5558	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4402	1.5303	1.6351	1.5134	1.4770	1.4486	1.3903	1.3505	AVRG		0.67881		1.4732	6	15	0.05	0.99	
Trichloroethene		0.2927	0.3581	0.3991	0.3723	0.3344	0.3662	0.3608	0.3665	AVRG		2.80718		0.3562	9	15	0.05	0.99	
1,2-Dichloropropane		0.3624	0.4511	0.4729	0.4455m	0.4442	0.4491m	0.4280	0.4156	AVRG		2.30639		0.4336	8	15	0.05	0.99	
Bromodichloromethane		0.4672	0.5305	0.5851	0.5354	0.5424	0.5480	0.5232	0.5151	AVRG		1.88365		0.5309	6	15	0.05	0.99	
Dibromomethane		0.2681	0.2899	0.2964	0.2917	0.3013	0.3019	0.2882	0.2886	AVRG		3.43915		0.2908	4	15	0.05	0.99	
4-Methyl-2-Pentanone			0.5606	0.5943	0.6070	0.6247	0.6340	0.6090	0.6019	AVRG		1.65426		0.6045	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5580	0.6058	0.6783	0.6396	0.6658	0.6521	0.6201	0.6245	AVRG		1.58599		0.6305	6	15	0.05	0.99	
Toluene		0.7192	0.9000	0.9163	0.8508	0.8008	0.8334	0.8160	0.8250	AVRG		1.20092		0.8327	7	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4960	0.5362	0.5723	0.5598	0.5884	0.6012	0.5771	0.5685	AVRG		1.77794		0.5624	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1499	0.2018	0.2164	0.2180	0.2163	0.2128	0.2077	0.2002	AVRG		4.92878		0.2029	11	15	0.05	0.99	
2-Hexanone			0.4092	0.4487	0.5100	0.5525m	0.5399	0.5104	0.4920	AVRG		2.02156		0.4947	10	15	0.05	0.99	
1,3-Dichloropropane		0.6671	0.7440	0.7707	0.7777	0.7912	0.7743	0.7147	0.7028	AVRG		1.34623		0.7428	6	15	0.05	0.99	
Tetrachloroethene		0.2593	0.3287	0.3606	0.3544	0.2829	0.3303	0.3412	0.3541	AVRG		3.06330		0.3264	11	15	0.05	0.99	
Dibromochloromethane		0.3364	0.3879	0.4254	0.4252	0.4447	0.4537	0.4302	0.4336	AVRG		2.39732		0.4171	9	15	0.05	0.99	
1,2-Dibromoethane		0.3252	0.3595	0.3699	0.3761	0.3836	0.3879	0.3739	0.3751	AVRG		2.71073		0.3689	5	15	0.05	0.99	
Chlorobenzene		0.9990	1.0100	1.1294	1.0509	1.0125	1.0391	0.9917	0.9854	AVRG		0.97350		1.0272	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2854	0.3248	0.3597	0.3396	0.3433	0.3545	0.3330	0.3355	AVRG		2.98966		0.3345	7	15	0.05	0.99	
Ethylbenzene		1.5570	1.8511	2.0466	1.9107	1.7289	1.8728	1.7926	1.7737	AVRG		0.55046		1.8167	8	15	0.05	0.99	
m,p-Xylenes	0.6220	0.5161	0.6197	0.6997	0.6491	0.6052	0.6471	0.6263	0.6005	AVRG		1.61123		0.6206	8	15	0.05	0.99	
o-Xylene		0.4493	0.5783	0.6516	0.6347	0.6076	0.6493	0.6262	0.6166	AVRG		1.66196		0.6017	11	15	0.05	0.99	
Styrene		0.7776	0.9781	1.1865	1.1183	1.1263	1.1547	1.1148	1.1031	AVRG		0.93464		1.0699	12	15	0.05	0.99	
Bromoform		0.2405	0.2601	0.2842	0.2951	0.3139	0.3258	0.3135	0.3147	AVRG		3.40727		0.2935	10	15	0.10	0.99	
Isopropylbenzene		2.1407	2.7175	3.2995	3.0938	2.6041	2.9844	3.0523	3.0680	AVRG		0.34843		2.8700	13	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.2369	1.3485	1.3971	1.2932	1.3143	1.3237	1.2680	1.2432	AVRG		0.76740		1.3031	4	15	0.30	0.99	
1,2,3-Trichloropropane		1.0936	1.1995	1.2208	1.1564	1.1503	1.1822	1.1096	1.0799	AVRG		0.87030		1.1490	4	15	0.05	0.99	
Propylbenzene		3.3321	3.9720	4.6699	4.3391	3.5061	4.0065	3.9449	3.8827	AVRG		0.25274		3.9567	11	15	0.05	0.99	
Bromobenzene		0.7017	0.8174	0.9025	0.8252	0.8127	0.8412	0.8036	0.8000	AVRG		1.22994		0.8131	7	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.0548	2.4558	2.9663	2.6756	2.4057	2.6158	2.5878	2.5552	AVRG		0.39376		2.5396	10	15	0.05	0.99	
2-Chlorotoluene		2.3650	2.8292	3.2968	2.8584	2.6975	2.7807	2.6876	2.6091	AVRG		0.36159		2.7655	10	15	0.05	0.99	
4-Chlorotoluene		2.3305	2.5977	2.9556	2.6629	2.5873	2.6853	2.6228	2.5238	AVRG		0.38157		2.6207	7	15	0.05	0.99	
tert-Butylbenzene		1.3915	1.7080	2.1593	1.9723	1.6316	1.9244	1.9918	2.0175	AVRG		0.54067		1.8496	14	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.9328	2.4922	2.9347	2.6084	2.5248	2.6995	2.6693	2.7238	AVRG		0.38862		2.5732	11	15	0.05	0.99	
sec-Butylbenzene	2.8521	2.0916	2.8499	3.5550	3.3899	2.5941	3.1294	3.2875	3.2967	AVRG		0.33276		3.0051	15	15	0.05	0.99	
para-Isopropyl Toluene		1.6074	2.0571	2.6533	2.5073	2.0623	2.4219	2.5029	2.5129	AVRG		0.43656		2.2907	15	15	0.05	0.99	
1,3-Dichlorobenzene		1.3863	1.4652	1.6376	1.4455	1.4103	1.4890	1.4352	1.4357	AVRG		0.68349		1.4631	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.4664	1.5718	1.6599	1.5000	1.4728	1.5548	1.4971	1.4946	AVRG		0.65481		1.5272	4	15	0.05	0.99	
n-Butylbenzene		1.7433	2.0423	2.6405	2.5748	2.0569	2.4986	2.6679	2.6870	AVRG		0.42302		2.3639	15	15	0.05	0.99	
1,2-Dichlorobenzene		1.2924	1.4159	1.4849	1.3977	1.3728	1.4616	1.3882	1.3930	AVRG		0.71388		1.4008	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2008	0.2085	0.2283	0.2231	0.2301	0.2415	0.2341	0.2253	AVRG		4.46522		0.2240	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.6026	0.6477	0.7814	0.7421	0.7965	0.8706	0.8861	0.8851	AVRG		1.28783		0.7765	14	15	0.05	0.99	
Hexachlorobutadiene	0.1675	0.1804	0.2571	0.3041	0.2916	0.2057	0.2586	0.2877	0.2955	QUAD	0.02359	4.14216	-0.02666	0.2498	0.998	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1540	0.9422	1.1876	1.4985	1.5913	1.8312	2.1629			QUAD	0.43966	0.58782	-0.00120	1.4811	1.000	15	0.05	0.99	
1,2,3-Trichlorobenzene	0.6916	0.4890	0.5896	0.7096	0.6981	0.7284	0.8158			QUAD	0.11458	1.44436	-0.00543	0.6746	1.000	15	0.05	0.99	
Dibromofluoromethane							0.6369			AVRG		1.57002		0.6369	0	15	0.05	0.99	
1,2-Dichloroethane-d4							0.4392			AVRG		2.27678		0.4392	0	15	0.05	0.99	
Toluene-d8							1.1497			AVRG		0.86980		1.1497	0	15	0.05	0.99	
Bromofluorobenzene							1.2060			AVRG		0.82917		1.2060	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12	0.500	73	1.000	23	2.000	8	5.000	-9	10.00	-9	20.00	12	50.00	-8	75.00	5	100.0	-2
Chloromethane			1.000	1	2.000	0	5.000	5	10.00	-9	20.00	3	50.00	2	75.00	0	100.0	-2
Vinyl Chloride	0.500	3	1.000	-15	2.000	-7	5.000	4	10.00	-5	20.00	11	50.00	3	75.00	4	100.0	1
Bromomethane			1.000	-24	2.000	-8	5.000	3	10.00	-10	20.00	5	50.00	13	75.00	12	100.0	9
Chloroethane			1.000	-16	2.000	-2	5.000	13	10.00	-4	20.00	5	50.00	3	75.00	1	100.0	0
Trichlorofluoromethane			1.000	-13	2.000	-4	5.000	-1	10.00	1	20.00	11	50.00	-2	75.00	6	100.0	2
Acetone					2.000	25	5.000	0	10.00	-8	20.00	-6	50.00	4	75.00	-6	100.0	-9
Freon 113	0.250	143	0.500	48	2.000	23	5.000	17	10.00	19	20.00	-23	50.00	0	75.00	2	100.0	-1
1,1-Dichloroethene			0.500	-13	2.000	-6	5.000	8	10.00	7	20.00	-10	50.00	5	75.00	4	100.0	5
Methylene Chloride					2.000	12	5.000	11	10.00	-2	20.00	0	50.00	-2	75.00	-9	100.0	-11
Carbon Disulfide			0.500	-16	2.000	-1	5.000	1	10.00	-5	20.00	-2	50.00	1	75.00	12	100.0	10
MTBE			0.500	-19	2.000	-1	5.000	1	10.00	3	20.00	6	50.00	8	75.00	0	100.0	1
trans-1,2-Dichloroethene			0.500	-12	2.000	-1	5.000	10	10.00	3	20.00	-3	50.00	4	75.00	-1	100.0	1
Vinyl Acetate							5.000	-18	10.00	-18	20.00	13	50.00	12	75.00	8	100.0	4
1,1-Dichloroethane			0.500	-9	2.000	0	5.000	12	10.00	2	20.00	0	50.00	3	75.00	-2	100.0	-5
2-Butanone					2.000	-1	5.000	0	10.00	2	20.00	0	50.00	6	75.00	-1	100.0	-7
2,2-Dichloropropane			0.500	-19	2.000	3	5.000	15	10.00	7	20.00	-8	50.00	3	75.00	1	100.0	-3
cis-1,2-Dichloroethene			0.500	-8	2.000	-3	5.000	9	10.00	2	20.00	1	50.00	3	75.00	-1	100.0	-4
Chloroform			0.500	0	2.000	2	5.000	12	10.00	0	20.00	0	50.00	0	75.00	-7	100.0	-7
Bromochloromethane			0.500	-15	2.000	2	5.000	5	10.00	1	20.00	5	50.00	7	75.00	-2	100.0	-3
1,1,1-Trichloroethane			0.500	-19	2.000	-1	5.000	14	10.00	8	20.00	-10	50.00	2	75.00	3	100.0	3
1,1-Dichloropropene			0.500	-28	2.000	-1	5.000	14	10.00	10	20.00	-11	50.00	2	75.00	7	100.0	7
Carbon Tetrachloride			0.500	-27	2.000	0	5.000	9	10.00	12	20.00	-14	50.00	2	75.00	9	100.0	10
1,2-Dichloroethane			0.500	-9	2.000	5	5.000	6	10.00	0	20.00	4	50.00	1	75.00	-3	100.0	-4
Benzene			0.500	-2	2.000	4	5.000	11	10.00	3	20.00	0	50.00	-2	75.00	-6	100.0	-8
Trichloroethene			0.500	-18	2.000	1	5.000	12	10.00	5	20.00	-6	50.00	3	75.00	1	100.0	3
1,2-Dichloropropane			0.500	-16	2.000	4	5.000	9	10.00	3	20.00	2	50.00	4	75.00	-1	100.0	-4
Bromodichloromethane			0.500	-12	2.000	0	5.000	10	10.00	1	20.00	2	50.00	3	75.00	-1	100.0	-3
Dibromomethane			0.500	-8	2.000	0	5.000	2	10.00	0	20.00	4	50.00	4	75.00	-1	100.0	-1
4-Methyl-2-Pentanone					2.000	-7	5.000	-2	10.00	0	20.00	3	50.00	5	75.00	1	100.0	0
cis-1,3-Dichloropropene			0.500	-11	2.000	-4	5.000	8	10.00	1	20.00	6	50.00	3	75.00	-2	100.0	-1
Toluene			0.500	-14	2.000	8	5.000	10	10.00	2	20.00	-4	50.00	0	75.00	-2	100.0	-1
trans-1,3-Dichloropropene			0.500	-12	2.000	-5	5.000	2	10.00	0	20.00	5	50.00	7	75.00	3	100.0	1
1,1,2-Trichloroethane			0.500	-26	2.000	-1	5.000	7	10.00	7	20.00	7	50.00	5	75.00	2	100.0	-1
2-Hexanone					2.000	-17	5.000	-9	10.00	3	20.00	12	50.00	9	75.00	3	100.0	-1
1,3-Dichloropropane			0.500	-10	2.000	0	5.000	4	10.00	5	20.00	7	50.00	4	75.00	-4	100.0	-5
Tetrachloroethene			0.500	-21	2.000	1	5.000	10	10.00	9	20.00	-13	50.00	1	75.00	5	100.0	8
Dibromochloromethane			0.500	-19	2.000	-7	5.000	2	10.00	2	20.00	7	50.00	9	75.00	3	100.0	4
1,2-Dibromoethane			0.500	-12	2.000	-3	5.000	0	10.00	2	20.00	4	50.00	5	75.00	1	100.0	2
Chlorobenzene			0.500	-3	2.000	-2	5.000	10	10.00	2	20.00	-1	50.00	1	75.00	-3	100.0	-4
1,1,1,2-Tetrachloroethane			0.500	-15	2.000	-3	5.000	8	10.00	2	20.00	3	50.00	6	75.00	0	100.0	0
Ethylbenzene			0.500	-14	2.000	2	5.000	13	10.00	5	20.00	-5	50.00	3	75.00	-1	100.0	-2

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	0	1.000	-17	4.000	0	10.00	13	20.00	5	40.00	-2	100.0	4	150.0	1	200.0	-3
o-Xylene			0.500	-25	2.000	-4	5.000	8	10.00	5	20.00	1	50.00	8	75.00	4	100.0	2
Styrene			0.500	-27	2.000	-9	5.000	11	10.00	5	20.00	5	50.00	8	75.00	4	100.0	3
Bromoform			0.500	-18	2.000	-11	5.000	-3	10.00	1	20.00	7	50.00	11	75.00	7	100.0	7
Isopropylbenzene			0.500	-25	2.000	-5	5.000	15	10.00	8	20.00	-9	50.00	4	75.00	6	100.0	7
1,1,2,2-Tetrachloroethane			0.500	-5	2.000	3	5.000	7	10.00	-1	20.00	1	50.00	2	75.00	-3	100.0	-5
1,2,3-Trichloropropane			0.500	-5	2.000	4	5.000	6	10.00	1	20.00	0	50.00	3	75.00	-3	100.0	-6
Propylbenzene			0.500	-16	2.000	0	5.000	18	10.00	10	20.00	-11	50.00	1	75.00	0	100.0	-2
Bromobenzene			0.500	-14	2.000	1	5.000	11	10.00	1	20.00	0	50.00	3	75.00	-1	100.0	-2
1,3,5-Trimethylbenzene			0.500	-19	2.000	-3	5.000	17	10.00	5	20.00	-5	50.00	3	75.00	2	100.0	1
2-Chlorotoluene			0.500	-14	2.000	2	5.000	19	10.00	3	20.00	-2	50.00	1	75.00	-3	100.0	-6
4-Chlorotoluene			0.500	-11	2.000	-1	5.000	13	10.00	2	20.00	-1	50.00	2	75.00	0	100.0	-4
tert-Butylbenzene			0.500	-25	2.000	-8	5.000	17	10.00	7	20.00	-12	50.00	4	75.00	8	100.0	9
1,2,4-Trimethylbenzene			0.500	-25	2.000	-3	5.000	14	10.00	1	20.00	-2	50.00	5	75.00	4	100.0	6
sec-Butylbenzene	0.250	-5	0.500	-30	2.000	-5	5.000	18	10.00	13	20.00	-14	50.00	4	75.00	9	100.0	10
para-Isopropyl Toluene			0.500	-30	2.000	-10	5.000	16	10.00	9	20.00	-10	50.00	6	75.00	9	100.0	10
1,3-Dichlorobenzene			0.500	-5	2.000	0	5.000	12	10.00	-1	20.00	-4	50.00	2	75.00	-2	100.0	-2
1,4-Dichlorobenzene			0.500	-4	2.000	3	5.000	9	10.00	-2	20.00	-4	50.00	2	75.00	-2	100.0	-2
n-Butylbenzene			0.500	-26	2.000	-14	5.000	12	10.00	9	20.00	-13	50.00	6	75.00	13	100.0	14
1,2-Dichlorobenzene			0.500	-8	2.000	1	5.000	6	10.00	0	20.00	-2	50.00	4	75.00	-1	100.0	-1
1,2-Dibromo-3-Chloropropane			0.500	-10	2.000	-7	5.000	2	10.00	0	20.00	3	50.00	8	75.00	5	100.0	1
1,2,4-Trichlorobenzene			0.500	-22	2.000	-17	5.000	1	10.00	-4	20.00	3	50.00	12	75.00	14	100.0	14
Hexachlorobutadiene	0.250	-21	0.500	-21	2.000	7	5.000	25	10.00	19	20.00	-17	50.00	-2	75.00	3	100.0	-1
Naphthalene	0.250	144	0.500	43	2.000	-9	5.000	-4	10.00	-5	20.00	2	50.00	0				
1,2,3-Trichlorobenzene	0.250	46	0.500	-7	2.000	-9	5.000	3	10.00	-1	20.00	0	50.00	0				
Dibromofluoromethane													50.00	0				
1,2-Dichloroethane-d4													50.00	0				
Toluene-d8													50.00	0				
Bromofluorobenzene													50.00	0				

Analyst: BO Date: 10/03/07 Reviewer: LW Date: 10/03/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

447396473001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 MSVOA Water
EPA 8260B

Inst : MSVOA05 Name : 826GOX5
Calnum : 447396473001 Cal Date : 02-OCT-2007 Type : WATER

ICV 447396473018 (ej218 02-OCT-2007) stds: S7275 (6250X), S6961 (5000X)
ICV 447396473019 (ej219 02-OCT-2007) stds: S7229 (6250X), S7051 (6250X), S6961 (5000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	447396473018	0.5207	0.7288	40.00	49.83	ug/L	**25**	20	v+ ***
Chloromethane	447396473018	0.6949	0.7414	40.00	42.67	ug/L	7	20	
Vinyl Chloride	447396473018	0.6872	0.7528	40.00	43.82	ug/L	10	20	
Bromomethane	447396473018	0.4701	0.3941	40.00	33.54	ug/L	-16	20	
Chloroethane	447396473018	0.4034	0.4481	40.00	44.43	ug/L	11	20	
Trichlorofluoromethane	447396473018	0.9431	0.9483	40.00	40.22	ug/L	1	20	
Acetone	447396473019	0.3313	0.3309	40.00	39.95	ug/L	0	30	
Freon 113	447396473019	0.4596	0.6064	40.00	47.20	ug/L	18	20	
1,1-Dichloroethene	447396473019	0.4836	0.5496	40.00	45.46	ug/L	14	20	
Methylene Chloride	447396473019	0.7959	0.8409	40.00	42.26	ug/L	6	20	
Carbon Disulfide	447396473019	1.9774	2.1208	40.00	42.90	ug/L	7	20	
MTBE	447396473019	1.8377	1.9156	40.00	41.70	ug/L	4	20	
trans-1,2-Dichloroethene	447396473019	0.6286	0.6762	40.00	43.03	ug/L	8	20	
Vinyl Acetate	447396473019	2.0631	2.2921	40.00	44.44	ug/L	11	30	
1,1-Dichloroethane	447396473019	1.2440	1.2715	40.00	40.88	ug/L	2	20	
2-Butanone	447396473019	0.5124	0.5584	40.00	43.59	ug/L	9	30	
2,2-Dichloropropane	447396473019	0.7393	0.9054	40.00	48.99	ug/L	**22**	20	v+ ***
cis-1,2-Dichloroethene	447396473019	0.6627	0.7254	40.00	43.78	ug/L	9	20	
Chloroform	447396473019	1.1869	1.1850	40.00	39.94	ug/L	0	20	
Bromochloromethane	447396473019	0.3062	0.3114	40.00	40.68	ug/L	2	20	
1,1,1-Trichloroethane	447396473019	0.8004	0.8791	40.00	43.93	ug/L	10	20	
1,1-Dichloropropene	447396473019	0.4742	0.5246	40.00	44.26	ug/L	11	20	
Carbon Tetrachloride	447396473019	0.3692	0.4139	40.00	44.85	ug/L	12	20	
1,2-Dichloroethane	447396473019	0.5558	0.5433	40.00	39.10	ug/L	-2	20	
Benzene	447396473019	1.4732	1.4952	40.00	40.60	ug/L	1	20	
Trichloroethene	447396473019	0.3562	0.3814	40.00	42.83	ug/L	7	20	
1,2-Dichloropropane	447396473019	0.4336	0.4201	40.00	38.76	ug/L	-3	20	
Bromodichloromethane	447396473019	0.5309	0.5468	40.00	41.20	ug/L	3	20	
Dibromomethane	447396473019	0.2908	0.2937	40.00	40.41	ug/L	1	20	
4-Methyl-2-Pentanone	447396473019	0.6045	0.6267	40.00	41.47	ug/L	4	30	
cis-1,3-Dichloropropene	447396473019	0.6305	0.6440	40.00	40.85	ug/L	2	20	
Toluene	447396473019	0.8327	0.8635	40.00	41.48	ug/L	4	20	
trans-1,3-Dichloropropene	447396473019	0.5624	0.5565	40.00	39.58	ug/L	-1	20	
1,1,2-Trichloroethane	447396473019	0.2029	0.2150	40.00	42.39	ug/L	6	20	
2-Hexanone	447396473019	0.4947	0.5340	40.00	43.18	ug/L	8	30	
1,3-Dichloropropane	447396473019	0.7428	0.7691	40.00	41.42	ug/L	4	20	
Tetrachloroethene	447396473019	0.3264	0.3665	40.00	44.91	ug/L	12	20	
Dibromochloromethane	447396473019	0.4171	0.4303	40.00	41.26	ug/L	3	20	
1,2-Dibromoethane	447396473019	0.3689	0.3837	40.00	41.60	ug/L	4	20	
Chlorobenzene	447396473019	1.0272	1.0296	40.00	40.09	ug/L	0	20	
1,1,1,2-Tetrachloroethane	447396473019	0.3345	0.3420	40.00	40.89	ug/L	2	20	
Ethylbenzene	447396473019	1.8167	1.9221	40.00	42.32	ug/L	6	20	
m,p-Xylenes	447396473019	0.6206	0.6666	80.00	85.93	ug/L	7	20	
o-Xylene	447396473019	0.6017	0.6396	40.00	42.52	ug/L	6	20	
Styrene	447396473019	1.0699	1.1736	40.00	43.88	ug/L	10	20	
Bromoform	447396473019	0.2935	0.3108	40.00	42.35	ug/L	6	20	
Isopropylbenzene	447396473019	2.8700	2.8815	40.00	40.16	ug/L	0	20	

447396473001 ICVs

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	447396473019	1.3031	1.3325	40.00	40.90	ug/L	2	20	
1,2,3-Trichloropropane	447396473019	1.1490	1.1611	40.00	40.42	ug/L	1	20	
Propylbenzene	447396473019	3.9567	4.2646	40.00	43.11	ug/L	8	20	
Bromobenzene	447396473019	0.8131	0.8496	40.00	41.80	ug/L	4	20	
1,3,5-Trimethylbenzene	447396473019	2.5396	2.7001	40.00	42.53	ug/L	6	20	
2-Chlorotoluene	447396473019	2.7655	2.8042	40.00	40.56	ug/L	1	20	
4-Chlorotoluene	447396473019	2.6207	2.5950	40.00	39.61	ug/L	-1	20	
tert-Butylbenzene	447396473019	1.8496	2.0559	40.00	44.46	ug/L	11	20	
1,2,4-Trimethylbenzene	447396473019	2.5732	2.8338	40.00	44.05	ug/L	10	20	
sec-Butylbenzene	447396473019	3.0051	3.4303	40.00	45.66	ug/L	14	20	
para-Isopropyl Toluene	447396473019	2.2907	2.5395	40.00	44.35	ug/L	11	20	
1,3-Dichlorobenzene	447396473019	1.4631	1.4614	40.00	39.95	ug/L	0	20	
1,4-Dichlorobenzene	447396473019	1.5272	1.4919	40.00	39.08	ug/L	-2	20	
n-Butylbenzene	447396473019	2.3639	2.7932	40.00	47.26	ug/L	18	20	
1,2-Dichlorobenzene	447396473019	1.4008	1.4189	40.00	40.52	ug/L	1	20	
1,2-Dibromo-3-Chloropropane	447396473019	0.2240	0.2359	40.00	42.13	ug/L	5	20	
1,2,4-Trichlorobenzene	447396473019	0.7765	0.8580	40.00	44.20	ug/L	11	20	
Hexachlorobutadiene	447396473019	0.2498	0.3013	40.00	46.08	ug/L	15	20	
Naphthalene	447396473019	1.4811	2.0596	40.00	40.72	ug/L	2	20	
1,2,3-Trichlorobenzene	447396473019	0.6746	0.8052	40.00	41.01	ug/L	3	20	

+=high bias v=ICV

447396473001 ICVs

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 MSVOA Water: EPA 8260B

Inst : MSVOA09
Calnum : 487426947001
Units : ug/L

Name : 826GOX9W
Date : 23-OCT-2007 15:31
X Axis : R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ijn07	487426947007	0.25/0.5PPB	23-OCT-2007 15:31	S7417 (2000000X), S7403 (1000000X), S6351 (2000000X), S7437 (2500X)
L2	ijn08	487426947008	0.5/1PPB	23-OCT-2007 16:05	S7417 (1000000X), S7403 (500000X), S6351 (1000000X), S7437 (2500X)
L3	ijn09	487426947009	2PPB	23-OCT-2007 16:39	S7417 (250000X), S7403 (250000X), S6351 (500000X), S7437 (2500X)
L4	ijn10	487426947010	5PPB	23-OCT-2007 17:13	S7417 (100000X), S7403 (100000X), S6351 (200000X), S7437 (2500X)
L5	ijn11	487426947011	10PPB	23-OCT-2007 17:46	S7417 (50000X), S7403 (50000X), S6351 (100000X), S7437 (2500X)
L6	ijn12	487426947012	20PPB	23-OCT-2007 18:20	S7417 (25000X), S7403 (25000X), S6351 (50000X), S7437 (2500X)
L7	ijn13	487426947013	50PPB	23-OCT-2007 18:54	S7417 (10000X), S7403 (10000X), S6351 (20000X), S7437 (2500X)
L8	ijn14	487426947014	75PPB	23-OCT-2007 19:27	S7417 (6667X), S7403 (6667X), S6351 (13330X), S7437 (2500X)
L9	ijn15	487426947015	100PPB	23-OCT-2007 20:01	S7417 (5000X), S7403 (5000X), S6351 (10000X), S7437 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.1935	0.3179	0.2737	0.2921	0.2791	0.3168	0.2908	0.2849	AVRG		3.55725		0.2811	14	15	0.05	0.99	
Chloromethane		0.5208	0.5760m	0.5122m	0.4964	0.4771	0.5049	0.4625	0.4540	AVRG		1.99804		0.5005	8	15	0.10	0.99	
Vinyl Chloride	0.3189	0.3625	0.4472	0.4232	0.4056m	0.3944	0.4459	0.4175	0.4221	AVRG		2.47438		0.4041	10	15	0.05	0.99	
Bromomethane		0.1799	0.2233	0.2153	0.2234	0.2377	0.2646	0.2604	0.2780	AVRG		4.24948		0.2353	14	15	0.05	0.99	
Chloroethane		0.2403	0.2430m	0.2320m	0.2110	0.2213	0.2402	0.2302	0.2291	AVRG		4.33130		0.2309	5	15	0.05	0.99	
Trichlorofluoromethane		0.3306	0.5451	0.5038	0.5066	0.4986	0.5641	0.5206	0.5099	AVRG		2.01038		0.4974	14	15	0.05	0.99	
Acetone			0.1603	0.1361	0.1108	0.1532m	0.1175	0.1231	0.1220	AVRG		7.58371		0.1319	14	15	0.05	0.99	
Freon 113		0.1892m	0.3755	0.3821	0.4026	0.3320	0.3130	0.3837	0.3804	LINR	1.22410	2.63554		0.3448	0.993	15	0.05	0.99	
1,1-Dichloroethene		0.2716	0.3425	0.3226	0.3226	0.3134	0.2908	0.3205	0.3259	AVRG		3.18744		0.3137	7	15	0.05	0.99	
Methylene Chloride			0.4667m	0.4307	0.4069	0.4170	0.4084	0.4083	0.4115	AVRG		2.37336		0.4213	5	15	0.05	0.99	
Carbon Disulfide		1.2676	1.5034m	1.3904m	1.3429	1.2727	1.2280	1.2924	1.3095	AVRG		0.75424		1.3258	7	15	0.05	0.99	
MTBE		0.9935	0.9776	0.9364	0.9421	0.9598	0.9461	0.9716	0.9652	AVRG		1.04000		0.9615	2	15	0.05	0.99	
trans-1,2-Dichloroethene		0.3249	0.4487	0.4094	0.3791	0.3748	0.3500	0.3677	0.3678	AVRG		2.64698		0.3778	10	15	0.05	0.99	
Vinyl Acetate		0.8567	0.9484	0.8481	0.9007	0.3587	0.8483	0.9121	0.8815	AVRG		1.22054		0.8193	**23**	15	0.05	0.99	rsd
1,1-Dichloroethane		0.5941	0.8001	0.7034	0.6920	0.6702	0.6407	0.6661	0.6670	AVRG		1.47230		0.6792	9	15	0.10	0.99	
2-Butanone			0.2032	0.1923m	0.1706	0.1895	0.1845	0.1886	0.1862	AVRG		5.32371		0.1878	5	15	0.05	0.99	
2,2-Dichloropropane		0.4003	0.4260	0.4262	0.3965	0.3894	0.3597	0.3858	0.3745	AVRG		2.53295		0.3948	6	15	0.05	0.99	
cis-1,2-Dichloroethene		0.4596	0.4430	0.4290	0.4132	0.4099	0.4002	0.4027	0.4036	AVRG		2.38024		0.4201	5	15	0.05	0.99	
Chloroform		0.6587	0.6923	0.6494	0.6471	0.6306	0.6089	0.6153	0.6213	AVRG		1.56139		0.6405	4	15	0.05	0.99	
Bromochloromethane		0.2211	0.2498	0.2246	0.2238	0.2257	0.2201	0.2173	0.2158	AVRG		4.44935		0.2248	5	15	0.05	0.99	
1,1,1-Trichloroethane		0.3444	0.4914	0.4382	0.4738	0.4207	0.4036	0.4486	0.4435	AVRG		2.30923		0.4330	10	15	0.05	0.99	
1,1-Dichloropropene		0.2858	0.3576	0.3424	0.3412	0.3086	0.2883	0.3256	0.3199	AVRG		3.11347		0.3212	8	15	0.05	0.99	
Carbon Tetrachloride		0.1999	0.2260	0.2513	0.2580	0.2305	0.2271	0.2634	0.2575	AVRG		4.18021		0.2392	9	15	0.05	0.99	
1,2-Dichloroethane		0.3099	0.3315	0.3357	0.3256	0.3156	0.3068	0.3103	0.3019	AVRG		3.15287		0.3172	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.9688	1.1453	1.0131	0.9883	0.9640	0.9347	0.9592	0.9356	AVRG		1.01150		0.9886	7	15	0.05	0.99	
Trichloroethene		0.2222	0.3089	0.2807	0.2803	0.2717	0.2427	0.2592	0.2519	AVRG		3.77802		0.2647	10	15	0.05	0.99	
1,2-Dichloropropane		0.2854	0.3369	0.3047	0.3021	0.2943	0.2836	0.2853	0.2811	AVRG		3.37064		0.2967	6	15	0.05	0.99	
Bromodichloromethane		0.2690	0.3322	0.3229	0.3193	0.3323	0.3153	0.3249	0.3193	AVRG		3.15559		0.3169	6	15	0.05	0.99	
Dibromomethane		0.1528	0.2133	0.1888	0.1916	0.2016	0.1951	0.1945	0.1902	AVRG		5.23600		0.1910	9	15	0.05	0.99	
4-Methyl-2-Pentanone			0.2637	0.2485	0.2611	0.2672	0.2687	0.2748	0.2723	AVRG		3.77112		0.2652	3	15	0.05	0.99	
cis-1,3-Dichloropropene		0.3549	0.3986	0.4013	0.3965	0.3908	0.3884	0.3881	0.3870	AVRG		2.57603		0.3882	4	15	0.05	0.99	
Toluene		0.6223	0.6732	0.5930	0.5933	0.5519	0.5400	0.5539	0.5397	AVRG		1.71404		0.5834	8	15	0.05	0.99	
trans-1,3-Dichloropropene		0.2994	0.3503	0.3270	0.3385	0.3413	0.3338	0.3397	0.3348	AVRG		3.00208		0.3331	5	15	0.05	0.99	
1,1,2-Trichloroethane		0.1328	0.1302	0.1275	0.1342	0.1325	0.1289	0.1303	0.1285	AVRG		7.65533		0.1306	2	15	0.05	0.99	
2-Hexanone			0.2294	0.2257m	0.2386	0.2510	0.2646	0.2580	0.2598	AVRG		4.05321		0.2467	6	15	0.05	0.99	
1,3-Dichloropropane		0.5333	0.5511	0.5416	0.5159	0.5327	0.5323	0.5380	0.5197	AVRG		1.87588		0.5331	2	15	0.05	0.99	
Tetrachloroethene		0.2782	0.3793	0.3635	0.3644	0.3163	0.2950	0.3359	0.3223	AVRG		3.01330		0.3319	11	15	0.05	0.99	
Dibromochloromethane		0.2714	0.3197	0.3265	0.3374	0.3534	0.3639	0.3783	0.3713	AVRG		2.93901		0.3403	10	15	0.05	0.99	
1,2-Dibromoethane		0.2585	0.2722	0.2738	0.2809	0.2701	0.2664	0.2678	0.2599	AVRG		3.72138		0.2687	3	15	0.05	0.99	
Chlorobenzene		1.0354	1.0388	1.0125	0.9598	0.9335	0.9025	0.9214	0.8909	AVRG		1.03966		0.9619	6	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3167	0.3120	0.3388	0.3230	0.3054	0.3104	0.3191	0.3101	AVRG		3.15520		0.3169	3	15	0.05	0.99	
Ethylbenzene		1.5266	1.7496	1.5996	1.5665	1.4151	1.3824	1.4260	1.3819	AVRG		0.66403		1.5060	9	15	0.05	0.99	
m,p-Xylenes	0.5434	0.5785	0.6379	0.6124	0.6130	0.5446	0.5212	0.5405	0.5187	AVRG		1.76121		0.5678	8	15	0.05	0.99	
o-Xylene		0.6015	0.6381	0.6077	0.5959	0.5488	0.5360	0.5498	0.5259	AVRG		1.73769		0.5755	7	15	0.05	0.99	
Styrene		0.8848	1.0378	1.0121	0.9977	0.9458	0.9536	0.9574	0.9229	AVRG		1.03734		0.9640	5	15	0.05	0.99	
Bromoform		0.0840	0.1585	0.1718	0.1993	0.2119	0.2399	0.2550	0.2512	QUAD	1.28516	4.14010	-0.00984	0.1964	0.999	15	0.10	0.99	
Isopropylbenzene		2.7445	3.3391	3.0393	3.0671	2.7712	2.5105	2.8390	2.7283	AVRG		0.34724		2.8799	9	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.0231	1.0066	0.9202	0.9327	0.8399	0.9108	0.9239	0.8913	AVRG		1.07403		0.9311	6	15	0.30	0.99	
1,2,3-Trichloropropane		0.1812	0.2223	0.2272	0.2093	0.2313	0.2114	0.2163	0.2083	AVRG		4.68558		0.2134	7	15	0.05	0.99	
Propylbenzene		3.7336	4.1598	3.8947	3.8462	3.4383	3.1681	3.5365	3.3397	AVRG		0.27476		3.6396	9	15	0.05	0.99	
Bromobenzene		0.8827	1.0078	0.8805	0.8769	0.8593	0.8263	0.8208	0.7972	AVRG		1.15081		0.8690	7	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.5321	2.8780	2.6644	2.5455	2.3704	2.2393	2.3870	2.2973	AVRG		0.40172		2.4893	8	15	0.05	0.99	
2-Chlorotoluene		2.7205	2.8516	2.5685	2.5437	2.3965	2.2869	2.3650	2.2736	AVRG		0.39987		2.5008	8	15	0.05	0.99	
4-Chlorotoluene		2.6142	2.6033	2.4393	2.3030	2.2629	2.1700	2.2240	2.1524	AVRG		0.42623		2.3461	8	15	0.05	0.99	
tert-Butylbenzene		2.0339	2.3702	2.2319	2.1822	1.9296	1.7724	2.0011	1.9070	AVRG		0.48697		2.0535	10	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.6366	2.9708	2.6482	2.6804	2.4567	2.3280	2.4166	2.3568	AVRG		0.39035		2.5618	8	15	0.05	0.99	
sec-Butylbenzene		2.8962	3.5224	3.2651	3.3127	2.8624	2.6499	3.0521	2.9047	AVRG		0.32699		3.0582	9	15	0.05	0.99	
para-Isopropyl Toluene		2.4173	2.8253	2.5236	2.6303	2.2815	2.1583	2.4191	2.3028	AVRG		0.40903		2.4448	9	15	0.05	0.99	
1,3-Dichlorobenzene		1.6799	1.8304	1.6491	1.6009	1.5302	1.4696	1.4941	1.4419	AVRG		0.63012		1.5870	8	15	0.05	0.99	
1,4-Dichlorobenzene		1.5664	1.7595	1.6317	1.6115	1.5304	1.5017	1.5313	1.4633	AVRG		0.63513		1.5745	6	15	0.05	0.99	
n-Butylbenzene		2.0992	2.5785	2.4251	2.3626	2.0598	1.9080	2.1976	2.1211	AVRG		0.45066		2.2190	10	15	0.05	0.99	
1,2-Dichlorobenzene		1.5278	1.6914	1.4529	1.5161	1.4891	1.4386	1.4255	1.3805	AVRG		0.67103		1.4902	6	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane			0.1321	0.1102	0.1175	0.1257	0.1255	0.1330	0.1333	AVRG		7.97918		0.1253	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8932	0.9135	0.8854	0.8663	0.8560	0.7889	0.8366	0.8108	AVRG		1.16774		0.8564	5	15	0.05	0.99	
Hexachlorobutadiene		0.2055	0.3027	0.2949	0.2872	0.2546	0.2414	0.2891	0.2754	AVRG		3.71971		0.2688	12	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.6914	1.8831	1.8882	1.8473	1.9575	1.8075	1.9513	1.9369	AVRG		0.53465		1.8704	5	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.7553	0.8047	0.7749	0.7574	0.7502	0.7042	0.7469	0.7220	AVRG		1.32987		0.7520	4	15	0.05	0.99	
Dibromofluoromethane							0.5296			AVRG		1.88839		0.5296	0	15	0.05	0.99	
1,2-Dichloroethane-d4							0.3354			AVRG		2.98117		0.3354	0	15	0.05	0.99	
Toluene-d8							0.9733			AVRG		1.02744		0.9733	0	15	0.05	0.99	
Bromofluorobenzene							1.0362			AVRG		0.96506		1.0362	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	-31	2.000	13	5.000	-3	10.00	4	20.00	-1	50.00	13	75.00	3	100.0	1
Chloromethane			1.000	4	2.000	15	5.000	2	10.00	-1	20.00	-5	50.00	1	75.00	-8	100.0	-9
Vinyl Chloride	0.500	-21	1.000	-10	2.000	11	5.000	5	10.00	0	20.00	-2	50.00	10	75.00	3	100.0	4
Bromomethane			1.000	-24	2.000	-5	5.000	-8	10.00	-5	20.00	1	50.00	12	75.00	11	100.0	18
Chloroethane			1.000	4	2.000	5	5.000	0	10.00	-9	20.00	-4	50.00	4	75.00	0	100.0	-1
Trichlorofluoromethane			1.000	-34	2.000	10	5.000	1	10.00	2	20.00	0	50.00	13	75.00	5	100.0	3
Acetone					2.000	22	5.000	3	10.00	-16	20.00	16	50.00	-11	75.00	-7	100.0	-7
Freon 113			0.500	195	2.000	60	5.000	25	10.00	18	20.00	-6	50.00	-15	75.00	3	100.0	1
1,1-Dichloroethene			0.500	-13	2.000	9	5.000	3	10.00	3	20.00	0	50.00	-7	75.00	2	100.0	4
Methylene Chloride					2.000	11	5.000	2	10.00	-3	20.00	-1	50.00	-3	75.00	-3	100.0	-2
Carbon Disulfide			0.500	-4	2.000	13	5.000	5	10.00	1	20.00	-4	50.00	-7	75.00	-3	100.0	-1
MTBE			0.500	3	2.000	2	5.000	-3	10.00	-2	20.00	0	50.00	-2	75.00	1	100.0	0
trans-1,2-Dichloroethene			0.500	-14	2.000	19	5.000	8	10.00	0	20.00	-1	50.00	-7	75.00	-3	100.0	-3
Vinyl Acetate			0.500	5	2.000	16	5.000	4	10.00	10	20.00	-56	50.00	4	75.00	11	100.0	8
1,1-Dichloroethane			0.500	-13	2.000	18	5.000	4	10.00	2	20.00	-1	50.00	-6	75.00	-2	100.0	-2
2-Butanone					2.000	8	5.000	2	10.00	-9	20.00	1	50.00	-2	75.00	0	100.0	-1
2,2-Dichloropropane			0.500	1	2.000	8	5.000	8	10.00	0	20.00	-1	50.00	-9	75.00	-2	100.0	-5
cis-1,2-Dichloroethene			0.500	9	2.000	5	5.000	2	10.00	-2	20.00	-2	50.00	-5	75.00	-4	100.0	-4
Chloroform			0.500	3	2.000	8	5.000	1	10.00	1	20.00	-2	50.00	-5	75.00	-4	100.0	-3
Bromochloromethane			0.500	-2	2.000	11	5.000	0	10.00	0	20.00	0	50.00	-2	75.00	-3	100.0	-4
1,1,1-Trichloroethane			0.500	-20	2.000	13	5.000	1	10.00	9	20.00	-3	50.00	-7	75.00	4	100.0	2
1,1-Dichloropropene			0.500	-11	2.000	11	5.000	7	10.00	6	20.00	-4	50.00	-10	75.00	1	100.0	0
Carbon Tetrachloride			0.500	-16	2.000	-6	5.000	5	10.00	8	20.00	-4	50.00	-5	75.00	10	100.0	8
1,2-Dichloroethane			0.500	-2	2.000	5	5.000	6	10.00	3	20.00	0	50.00	-3	75.00	-2	100.0	-5
Benzene			0.500	-2	2.000	16	5.000	2	10.00	0	20.00	-2	50.00	-5	75.00	-3	100.0	-5
Trichloroethene			0.500	-16	2.000	17	5.000	6	10.00	6	20.00	3	50.00	-8	75.00	-2	100.0	-5
1,2-Dichloropropane			0.500	-4	2.000	14	5.000	3	10.00	2	20.00	-1	50.00	-4	75.00	-4	100.0	-5
Bromodichloromethane			0.500	-15	2.000	5	5.000	2	10.00	1	20.00	5	50.00	-1	75.00	3	100.0	1
Dibromomethane			0.500	-20	2.000	12	5.000	-1	10.00	0	20.00	6	50.00	2	75.00	2	100.0	0
4-Methyl-2-Pentanone					2.000	-1	5.000	-6	10.00	-2	20.00	1	50.00	1	75.00	4	100.0	3
cis-1,3-Dichloropropene			0.500	-9	2.000	3	5.000	3	10.00	2	20.00	1	50.00	0	75.00	0	100.0	0
Toluene			0.500	7	2.000	15	5.000	2	10.00	2	20.00	-5	50.00	-7	75.00	-5	100.0	-7
trans-1,3-Dichloropropene			0.500	-10	2.000	5	5.000	-2	10.00	2	20.00	2	50.00	0	75.00	2	100.0	1
1,1,2-Trichloroethane			0.500	2	2.000	0	5.000	-2	10.00	3	20.00	1	50.00	-1	75.00	0	100.0	-2
2-Hexanone					2.000	-7	5.000	-9	10.00	-3	20.00	2	50.00	7	75.00	5	100.0	5
1,3-Dichloropropane			0.500	0	2.000	3	5.000	2	10.00	-3	20.00	0	50.00	0	75.00	1	100.0	-3
Tetrachloroethene			0.500	-16	2.000	14	5.000	10	10.00	10	20.00	-5	50.00	-11	75.00	1	100.0	-3
Dibromochloromethane			0.500	-20	2.000	-6	5.000	-4	10.00	-1	20.00	4	50.00	7	75.00	11	100.0	9
1,2-Dibromoethane			0.500	-4	2.000	1	5.000	2	10.00	5	20.00	1	50.00	-1	75.00	0	100.0	-3
Chlorobenzene			0.500	8	2.000	8	5.000	5	10.00	0	20.00	-3	50.00	-6	75.00	-4	100.0	-7
1,1,1,2-Tetrachloroethane			0.500	0	2.000	-2	5.000	7	10.00	2	20.00	-4	50.00	-2	75.00	1	100.0	-2
Ethylbenzene			0.500	1	2.000	16	5.000	6	10.00	4	20.00	-6	50.00	-8	75.00	-5	100.0	-8

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-4	1.000	2	4.000	12	10.00	8	20.00	8	40.00	-4	100.0	-8	150.0	-5	200.0	-9
o-Xylene			0.500	5	2.000	11	5.000	6	10.00	4	20.00	-5	50.00	-7	75.00	-4	100.0	-9
Styrene			0.500	-8	2.000	8	5.000	5	10.00	3	20.00	-2	50.00	-1	75.00	-1	100.0	-4
Bromoform			0.500	192	2.000	30	5.000	-3	10.00	-5	20.00	-7	50.00	-1	75.00	3	100.0	-1
Isopropylbenzene			0.500	-5	2.000	16	5.000	6	10.00	7	20.00	-4	50.00	-13	75.00	-1	100.0	-5
1,1,2,2-Tetrachloroethane			0.500	10	2.000	8	5.000	-1	10.00	0	20.00	-10	50.00	-2	75.00	-1	100.0	-4
1,2,3-Trichloropropane			0.500	-15	2.000	4	5.000	6	10.00	-2	20.00	8	50.00	-1	75.00	1	100.0	-2
Propylbenzene			0.500	3	2.000	14	5.000	7	10.00	6	20.00	-6	50.00	-13	75.00	-3	100.0	-8
Bromobenzene			0.500	2	2.000	16	5.000	1	10.00	1	20.00	-1	50.00	-5	75.00	-6	100.0	-8
1,3,5-Trimethylbenzene			0.500	2	2.000	16	5.000	7	10.00	2	20.00	-5	50.00	-10	75.00	-4	100.0	-8
2-Chlorotoluene			0.500	9	2.000	14	5.000	3	10.00	2	20.00	-4	50.00	-9	75.00	-5	100.0	-9
4-Chlorotoluene			0.500	11	2.000	11	5.000	4	10.00	-2	20.00	-4	50.00	-8	75.00	-5	100.0	-8
tert-Butylbenzene			0.500	-1	2.000	15	5.000	9	10.00	6	20.00	-6	50.00	-14	75.00	-3	100.0	-7
1,2,4-Trimethylbenzene			0.500	3	2.000	16	5.000	3	10.00	5	20.00	-4	50.00	-9	75.00	-6	100.0	-8
sec-Butylbenzene			0.500	-5	2.000	15	5.000	7	10.00	8	20.00	-6	50.00	-13	75.00	0	100.0	-5
para-Isopropyl Toluene			0.500	-1	2.000	16	5.000	3	10.00	8	20.00	-7	50.00	-12	75.00	-1	100.0	-6
1,3-Dichlorobenzene			0.500	6	2.000	15	5.000	4	10.00	1	20.00	-4	50.00	-7	75.00	-6	100.0	-9
1,4-Dichlorobenzene			0.500	-1	2.000	12	5.000	4	10.00	2	20.00	-3	50.00	-5	75.00	-3	100.0	-7
n-Butylbenzene			0.500	-5	2.000	16	5.000	9	10.00	6	20.00	-7	50.00	-14	75.00	-1	100.0	-4
1,2-Dichlorobenzene			0.500	3	2.000	13	5.000	-3	10.00	2	20.00	0	50.00	-3	75.00	-4	100.0	-7
1,2-Dibromo-3-Chloropropane					2.000	5	5.000	-12	10.00	-6	20.00	0	50.00	0	75.00	6	100.0	6
1,2,4-Trichlorobenzene			0.500	4	2.000	7	5.000	3	10.00	1	20.00	0	50.00	-8	75.00	-2	100.0	-5
Hexachlorobutadiene			0.500	-24	2.000	13	5.000	10	10.00	7	20.00	-5	50.00	-10	75.00	8	100.0	2
Naphthalene			0.500	-10	2.000	1	5.000	1	10.00	-1	20.00	5	50.00	-3	75.00	4	100.0	4
1,2,3-Trichlorobenzene			0.500	0	2.000	7	5.000	3	10.00	1	20.00	0	50.00	-6	75.00	-1	100.0	-4
Dibromofluoromethane													50.00	0				
1,2-Dichloroethane-d4													50.00	0				
Toluene-d8													50.00	0				
Bromofluorobenzene													50.00	0				

Analyst: JCP Date: 10/24/07 Reviewer: LW Date: 10/24/07

m=manual integration rsd=ICAL %RSD failure

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

487426947001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 MSVOA Water EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 487426947001 Cal Date : 23-OCT-2007 Type : WATER

ICV 487426947016 (ijn16 23-OCT-2007) stds: S7415 (10000X), S7437 (2500X)
ICV 487426947017 (ijn17 23-OCT-2007) stds: S7480 (10000X), S7498 (10000X), S7437 (2500X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	487426947016	0.2811	0.3976	25.00	35.35	ug/L	**41**	20	v+ ***
Chloromethane	487426947016	0.5005	0.5079	25.00	25.37	ug/L	1	20	
Vinyl Chloride	487426947016	0.4041	0.4384	25.00	27.12	ug/L	8	20	
Bromomethane	487426947016	0.2353	0.2556	25.00	27.15	ug/L	9	20	m
Chloroethane	487426947016	0.2309	0.2401	25.00	26.00	ug/L	4	20	m
Trichlorofluoromethane	487426947016	0.4974	0.5039	25.00	25.33	ug/L	1	20	m
Acetone	487426947017	0.1319	0.1391	25.00	26.37	ug/L	5	30	
Freon 113	487426947017	0.3448	0.3732	25.00	25.81	ug/L	3	20	
1,1-Dichloroethene	487426947017	0.3137	0.3412	25.00	27.19	ug/L	9	20	
Methylene Chloride	487426947017	0.4213	0.4549	25.00	26.99	ug/L	8	20	
Carbon Disulfide	487426947017	1.3258	1.3408	25.00	25.28	ug/L	1	20	
MTBE	487426947017	0.9615	0.9779	25.00	25.43	ug/L	2	20	
trans-1,2-Dichloroethene	487426947017	0.3778	0.3916	25.00	25.91	ug/L	4	20	
Vinyl Acetate	487426947017	0.8193	0.7168	25.00	21.87	ug/L	-13	30	
1,1-Dichloroethane	487426947017	0.6792	0.7166	25.00	26.38	ug/L	6	20	
2-Butanone	487426947017	0.1878	0.1938	25.00	25.80	ug/L	3	30	
2,2-Dichloropropane	487426947017	0.3948	0.3999	25.00	25.32	ug/L	1	20	
cis-1,2-Dichloroethene	487426947017	0.4201	0.4457	25.00	26.52	ug/L	6	20	
Chloroform	487426947017	0.6405	0.6510	25.00	25.41	ug/L	2	20	
Bromochloromethane	487426947017	0.2248	0.2384	25.00	26.52	ug/L	6	20	
1,1,1-Trichloroethane	487426947017	0.4330	0.4711	25.00	27.20	ug/L	9	20	
1,1-Dichloropropene	487426947017	0.3212	0.3502	25.00	27.26	ug/L	9	20	
Carbon Tetrachloride	487426947017	0.2392	0.2874	25.00	30.04	ug/L	20	20	
1,2-Dichloroethane	487426947017	0.3172	0.3218	25.00	25.37	ug/L	1	20	
Benzene	487426947017	0.9886	1.0264	25.00	25.96	ug/L	4	20	
Trichloroethene	487426947017	0.2647	0.2865	25.00	27.06	ug/L	8	20	
1,2-Dichloropropane	487426947017	0.2967	0.3004	25.00	25.31	ug/L	1	20	
Bromodichloromethane	487426947017	0.3169	0.3517	25.00	27.74	ug/L	11	20	
Dibromomethane	487426947017	0.1910	0.2020	25.00	26.44	ug/L	6	20	
4-Methyl-2-Pentanone	487426947017	0.2652	0.2815	25.00	26.54	ug/L	6	30	
cis-1,3-Dichloropropene	487426947017	0.3882	0.4053	25.00	26.10	ug/L	4	20	
Toluene	487426947017	0.5834	0.6035	25.00	25.86	ug/L	3	20	
trans-1,3-Dichloropropene	487426947017	0.3331	0.3329	25.00	24.99	ug/L	0	20	
1,1,2-Trichloroethane	487426947017	0.1306	0.1413	25.00	27.04	ug/L	8	20	
2-Hexanone	487426947017	0.2467	0.2635	25.00	26.70	ug/L	7	30	
1,3-Dichloropropane	487426947017	0.5331	0.5711	25.00	26.78	ug/L	7	20	
Tetrachloroethene	487426947017	0.3319	0.3770	25.00	28.40	ug/L	14	20	
Dibromochloromethane	487426947017	0.3403	0.3822	25.00	28.08	ug/L	12	20	
1,2-Dibromoethane	487426947017	0.2687	0.2819	25.00	26.23	ug/L	5	20	
Chlorobenzene	487426947017	0.9619	0.9888	25.00	25.70	ug/L	3	20	
1,1,1,2-Tetrachloroethane	487426947017	0.3169	0.3437	25.00	27.11	ug/L	8	20	
Ethylbenzene	487426947017	1.5060	1.6314	25.00	27.08	ug/L	8	20	
m,p-Xylenes	487426947017	0.5678	0.6170	50.00	54.34	ug/L	9	20	
o-Xylene	487426947017	0.5755	0.6161	25.00	26.77	ug/L	7	20	
Styrene	487426947017	0.9640	1.0591	25.00	27.47	ug/L	10	20	
Bromoform	487426947017	0.1964	0.2445	25.00	26.22	ug/L	5	20	
Isopropylbenzene	487426947017	2.8799	2.9604	25.00	25.70	ug/L	3	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	487426947017	0.9311	0.9607	25.00	25.80	ug/L	3	20	
1,2,3-Trichloropropane	487426947017	0.2134	0.2360	25.00	27.64	ug/L	11	20	
Propylbenzene	487426947017	3.6396	4.0037	25.00	27.50	ug/L	10	20	
Bromobenzene	487426947017	0.8690	0.9124	25.00	26.25	ug/L	5	20	
1,3,5-Trimethylbenzene	487426947017	2.4893	2.7440	25.00	27.56	ug/L	10	20	
2-Chlorotoluene	487426947017	2.5008	2.6500	25.00	26.49	ug/L	6	20	
4-Chlorotoluene	487426947017	2.3461	2.4336	25.00	25.93	ug/L	4	20	
tert-Butylbenzene	487426947017	2.0535	2.2410	25.00	27.28	ug/L	9	20	
1,2,4-Trimethylbenzene	487426947017	2.5618	2.7967	25.00	27.29	ug/L	9	20	
sec-Butylbenzene	487426947017	3.0582	3.4103	25.00	27.88	ug/L	12	20	
para-Isopropyl Toluene	487426947017	2.4448	2.6572	25.00	27.17	ug/L	9	20	
1,3-Dichlorobenzene	487426947017	1.5870	1.6107	25.00	25.37	ug/L	1	20	
1,4-Dichlorobenzene	487426947017	1.5745	1.6123	25.00	25.60	ug/L	2	20	
n-Butylbenzene	487426947017	2.2190	2.5005	25.00	28.17	ug/L	13	20	
1,2-Dichlorobenzene	487426947017	1.4902	1.5744	25.00	26.41	ug/L	6	20	
1,2-Dibromo-3-Chloropropane	487426947017	0.1253	0.1426	25.00	28.45	ug/L	14	20	
1,2,4-Trichlorobenzene	487426947017	0.8564	0.8942	25.00	26.10	ug/L	4	20	
Hexachlorobutadiene	487426947017	0.2688	0.3160	25.00	29.38	ug/L	18	20	
Naphthalene	487426947017	1.8704	2.1024	25.00	28.10	ug/L	12	20	
1,2,3-Trichlorobenzene	487426947017	0.7520	0.7999	25.00	26.59	ug/L	6	20	

+=high bias m=manual integration v=ICV

487426947001 ICVs

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198818 MSVOA Water
EPA 8260B

Inst : MSVOA05 Run Name : QC413029 IDF : 1.0
Seqnum : 447438217003.4 File : ejv03 Time : 31-OCT-2007 08:20
Cal : 447396473001 Caldate : 02-OCT-2007 Caltype : WATER
Standards: S7480 (10000X), S7415 (10000X), S7498 (10000X), S7365 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5207	0.6199	25.00	27.26	ug/L	9	20	0.0500	u v+ ***
Chloromethane	0.6949	0.7353	25.00	26.45	ug/L	6	20	0.1000	u
Vinyl Chloride	0.6872	0.7195	25.00	26.17	ug/L	5	20	0.0500	u
Bromomethane	0.4701	0.4429	25.00	23.55	ug/L	-6	20	0.0500	u
Chloroethane	0.4034	0.4396	25.00	27.24	ug/L	9	20	0.0500	u
Trichlorofluoromethane	0.9431	0.9537	25.00	25.28	ug/L	1	20	0.0500	u
Acetone	0.3313	0.2394	25.00	18.06	ug/L	-28	30	0.0500	u
Freon 113	0.4596	0.5730	25.00	28.85	ug/L	15	20	0.0500	u
1,1-Dichloroethene	0.4836	0.4928	25.00	25.48	ug/L	2	20	0.0500	u
Methylene Chloride	0.7959	0.7329	25.00	23.02	ug/L	-8	20	0.0500	u
Carbon Disulfide	1.9774	1.7133	25.00	21.66	ug/L	-13	20	0.0500	u
MTBE	1.8377	1.5832	25.00	21.54	ug/L	-14	20	0.0500	u
trans-1,2-Dichloroethene	0.6286	0.5729	25.00	22.79	ug/L	-9	20	0.0500	u
Vinyl Acetate	2.0631	1.3234	25.00	16.04	ug/L	**-36**	30	0.0500	c- u ***
1,1-Dichloroethane	1.2440	1.1333	25.00	22.78	ug/L	-9	20	0.1000	u
2-Butanone	0.5124	0.3868	25.00	18.87	ug/L	-25	30	0.0500	u
cis-1,2-Dichloroethene	0.6627	0.6572	25.00	24.79	ug/L	-1	20	0.0500	u
2,2-Dichloropropane	0.7393	0.7624	25.00	25.78	ug/L	3	20	0.0500	u v+ ***
Chloroform	1.1869	1.1372	25.00	23.95	ug/L	-4	20	0.0500	u
Bromochloromethane	0.3062	0.3083	25.00	25.17	ug/L	1	20	0.0500	u
1,1,1-Trichloroethane	0.8004	0.8127	25.00	25.38	ug/L	2	20	0.0500	u
1,1-Dichloropropene	0.4742	0.4616	25.00	24.34	ug/L	-3	20	0.0500	u
Carbon Tetrachloride	0.3692	0.3958	25.00	26.80	ug/L	7	20	0.0500	u
1,2-Dichloroethane	0.5558	0.5028	25.00	22.62	ug/L	-10	20	0.0500	u
Benzene	1.4732	1.5075	25.00	25.58	ug/L	2	20	0.0500	u
Trichloroethene	0.3562	0.3459	25.00	24.28	ug/L	-3	20	0.0500	u
1,2-Dichloropropane	0.4336	0.3722	25.00	21.46	ug/L	-14	20	0.0500	u
Bromodichloromethane	0.5309	0.5094	25.00	23.99	ug/L	-4	20	0.0500	u
Dibromomethane	0.2908	0.2640	25.00	22.70	ug/L	-9	20	0.0500	u
4-Methyl-2-Pentanone	0.6045	0.4637	25.00	19.18	ug/L	-23	30	0.0500	u
cis-1,3-Dichloropropene	0.6305	0.5744	25.00	22.77	ug/L	-9	20	0.0500	u
Toluene	0.8327	0.8376	25.00	25.15	ug/L	1	20	0.0500	u
trans-1,3-Dichloropropene	0.5624	0.4672	25.00	20.77	ug/L	-17	20	0.0500	u
1,1,2-Trichloroethane	0.2029	0.2002	25.00	24.67	ug/L	-1	20	0.0500	u
2-Hexanone	0.4947	0.3636	25.00	18.37	ug/L	-27	30	0.0500	u
1,3-Dichloropropane	0.7428	0.7266	25.00	24.46	ug/L	-2	20	0.0500	u
Tetrachloroethene	0.3264	0.3609	25.00	27.64	ug/L	11	20	0.0500	u
Dibromochloromethane	0.4171	0.4143	25.00	24.83	ug/L	-1	20	0.0500	u
1,2-Dibromoethane	0.3689	0.3202	25.00	21.70	ug/L	-13	20	0.0500	u
Chlorobenzene	1.0272	1.0108	25.00	24.60	ug/L	-2	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.3345	0.3537	25.00	26.43	ug/L	6	20	0.0500	u
Ethylbenzene	1.8167	1.8597	25.00	25.59	ug/L	2	20	0.0500	u
m,p-Xylenes	0.6206	0.6453	50.00	51.99	ug/L	4	20	0.0500	u
o-Xylene	0.6017	0.6111	25.00	25.39	ug/L	2	20	0.0500	u
Styrene	1.0699	1.0278	25.00	24.02	ug/L	-4	20	0.0500	u
Bromoform	0.2935	0.2909	25.00	24.78	ug/L	-1	20	0.1000	u
Isopropylbenzene	2.8700	2.8379	25.00	24.72	ug/L	-1	20	0.0500	u
1,1,2,2-Tetrachloroethane	1.3031	1.2870	25.00	24.69	ug/L	-1	20	0.3000	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	1.1490	1.1228	25.00	24.43	ug/L	-2	20	0.0500	u
Propylbenzene	3.9567	4.1965	25.00	26.52	ug/L	6	20	0.0500	u
Bromobenzene	0.8131	0.9112	25.00	28.02	ug/L	12	20	0.0500	u
1,3,5-Trimethylbenzene	2.5396	2.7532	25.00	27.10	ug/L	8	20	0.0500	u
2-Chlorotoluene	2.7655	2.9579	25.00	26.74	ug/L	7	20	0.0500	u
4-Chlorotoluene	2.6207	2.4384	25.00	23.26	ug/L	-7	20	0.0500	u
tert-Butylbenzene	1.8496	1.9789	25.00	26.75	ug/L	7	20	0.0500	u
1,2,4-Trimethylbenzene	2.5732	2.6420	25.00	25.67	ug/L	3	20	0.0500	u
sec-Butylbenzene	3.0051	3.1232	25.00	25.98	ug/L	4	20	0.0500	u
para-Isopropyl Toluene	2.2907	2.2326	25.00	24.37	ug/L	-3	20	0.0500	u
1,3-Dichlorobenzene	1.4631	1.4720	25.00	25.15	ug/L	1	20	0.0500	u
1,4-Dichlorobenzene	1.5272	1.4236	25.00	23.30	ug/L	-7	20	0.0500	u
n-Butylbenzene	2.3639	1.9331	25.00	20.44	ug/L	-18	20	0.0500	u
1,2-Dichlorobenzene	1.4008	1.4611	25.00	26.08	ug/L	4	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.2240	0.1912	25.00	21.34	ug/L	-15	20	0.0500	u
1,2,4-Trichlorobenzene	0.7765	0.6149	25.00	19.80	ug/L	**-21**	20	0.0500	c- u ***
Hexachlorobutadiene	0.2498	0.2889	25.00	28.55	ug/L	14	20	0.0500	u
Naphthalene	1.4811	1.0292	25.00	14.77	ug/L	**-41**	20	0.0500	c- u ***
1,2,3-Trichlorobenzene	0.6746	0.6073	25.00	20.79	ug/L	-17	20	0.0500	u
Dibromofluoromethane	0.6369	0.6280	50.00	49.30	ug/L	-1	20	0.0500	u
1,2-Dichloroethane-d4	0.4392	0.4143	50.00	47.17	ug/L	-6	20	0.0500	u
Toluene-d8	1.1497	1.1666	50.00	50.74	ug/L	1	20	0.0500	u
Bromofluorobenzene	1.2060	1.2368	50.00	51.28	ug/L	3	20	0.0500	u

ISTD (ICAL ej215)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	447551	635066	41.90	10.00	10.00	0.00
1,4-Difluorobenzene	758579	1045927	37.88	11.13	11.13	0.00
Chlorobenzene-d5	636485	877840	37.92	15.20	15.20	0.00
1,4-Dichlorobenzene-d4	330123	411779	24.74	17.92	17.92	0.00

Analyst: JCP Date: 11/01/07 Reviewer: WNH Date: 11/01/07

+=high bias -=low bias c=CCV u=use v=ICV

447438217003.4

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198818 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : QC413033 IDF : 1.0
Seqnum : 487438254003.8 File : ijv03 Time : 31-OCT-2007 09:21
Cal : 487426947001 Caldate : 23-OCT-2007 Caltype : WATER
Standards: S7480 (10000X), S7498 (10000X), S7415 (10000X), S7437 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.2811	0.3328	25.00	29.60	ug/L	18	20	0.0500	u v+ ***
Chloromethane	0.5005	0.4526	25.00	22.61	ug/L	-10	20	0.1000	u
Vinyl Chloride	0.4041	0.3889	25.00	24.06	ug/L	-4	20	0.0500	u
Bromomethane	0.2353	0.1495	25.00	15.88	ug/L	**-36**	20	0.0500	c- u ***
Chloroethane	0.2309	0.2034	25.00	22.03	ug/L	-12	20	0.0500	u
Trichlorofluoromethane	0.4974	0.4872	25.00	24.49	ug/L	-2	20	0.0500	u
Acetone	0.1319	0.1334	25.00	25.29	ug/L	1	30	0.0500	u
Freon 113	0.3448	0.3311	25.00	23.04	ug/L	-8	20	0.0500	u
1,1-Dichloroethene	0.3137	0.2813	25.00	22.41	ug/L	-10	20	0.0500	u
Methylene Chloride	0.4213	0.3981	25.00	23.62	ug/L	-6	20	0.0500	u
Carbon Disulfide	1.3258	1.0599	25.00	19.99	ug/L	-20	20	0.0500	u
MTBE	0.9615	0.8742	25.00	22.73	ug/L	-9	20	0.0500	u
trans-1,2-Dichloroethene	0.3778	0.3394	25.00	22.46	ug/L	-10	20	0.0500	u
Vinyl Acetate	0.8193	0.7720	25.00	23.56	ug/L	-6	30	0.0500	rsd u ***
1,1-Dichloroethane	0.6792	0.6240	25.00	22.97	ug/L	-8	20	0.1000	u
2-Butanone	0.1878	0.1948	25.00	25.92	ug/L	4	30	0.0500	u
cis-1,2-Dichloroethene	0.4201	0.3888	25.00	23.14	ug/L	-7	20	0.0500	u
2,2-Dichloropropane	0.3948	0.4375	25.00	27.70	ug/L	11	20	0.0500	u
Chloroform	0.6405	0.5958	25.00	23.26	ug/L	-7	20	0.0500	u
Bromochloromethane	0.2248	0.2023	25.00	22.50	ug/L	-10	20	0.0500	u
1,1,1-Trichloroethane	0.4330	0.4295	25.00	24.80	ug/L	-1	20	0.0500	u
1,1-Dichloropropene	0.3212	0.3102	25.00	24.15	ug/L	-3	20	0.0500	u
Carbon Tetrachloride	0.2392	0.2494	25.00	26.07	ug/L	4	20	0.0500	u
1,2-Dichloroethane	0.3172	0.2962	25.00	23.34	ug/L	-7	20	0.0500	u
Benzene	0.9886	0.9068	25.00	22.93	ug/L	-8	20	0.0500	u
Trichloroethene	0.2647	0.2470	25.00	23.33	ug/L	-7	20	0.0500	u
1,2-Dichloropropane	0.2967	0.2661	25.00	22.42	ug/L	-10	20	0.0500	u
Bromodichloromethane	0.3169	0.3130	25.00	24.70	ug/L	-1	20	0.0500	u
Dibromomethane	0.1910	0.1790	25.00	23.43	ug/L	-6	20	0.0500	u
4-Methyl-2-Pentanone	0.2652	0.2602	25.00	24.53	ug/L	-2	30	0.0500	u
cis-1,3-Dichloropropene	0.3882	0.3839	25.00	24.72	ug/L	-1	20	0.0500	u
Toluene	0.5834	0.5441	25.00	23.32	ug/L	-7	20	0.0500	u
trans-1,3-Dichloropropene	0.3331	0.3006	25.00	22.56	ug/L	-10	20	0.0500	u
1,1,2-Trichloroethane	0.1306	0.1308	25.00	25.03	ug/L	0	20	0.0500	u
2-Hexanone	0.2467	0.2600	25.00	26.34	ug/L	5	30	0.0500	u
1,3-Dichloropropane	0.5331	0.5456	25.00	25.59	ug/L	2	20	0.0500	u
Tetrachloroethene	0.3319	0.3394	25.00	25.57	ug/L	2	20	0.0500	u
Dibromochloromethane	0.3403	0.3547	25.00	26.07	ug/L	4	20	0.0500	u
1,2-Dibromoethane	0.2687	0.2548	25.00	23.71	ug/L	-5	20	0.0500	u
Chlorobenzene	0.9619	0.8999	25.00	23.39	ug/L	-6	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.3169	0.3071	25.00	24.22	ug/L	-3	20	0.0500	u
Ethylbenzene	1.5060	1.5033	25.00	24.96	ug/L	0	20	0.0500	u
m,p-Xylenes	0.5678	0.5632	50.00	49.60	ug/L	-1	20	0.0500	u
o-Xylene	0.5755	0.5451	25.00	23.68	ug/L	-5	20	0.0500	u
Styrene	0.9640	0.9757	25.00	25.30	ug/L	1	20	0.0500	u
Bromoform	0.1964	0.2347	25.00	25.23	ug/L	1	20	0.1000	u
Isopropylbenzene	2.8799	2.6888	25.00	23.34	ug/L	-7	20	0.0500	u
1,1,2,2-Tetrachloroethane	0.9311	0.9645	25.00	25.90	ug/L	4	20	0.3000	u

487438254003.8

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.2134	0.2295	25.00	26.88	ug/L	8	20	0.0500	u
Propylbenzene	3.6396	3.7385	25.00	25.68	ug/L	3	20	0.0500	u
Bromobenzene	0.8690	0.8414	25.00	24.21	ug/L	-3	20	0.0500	u
1,3,5-Trimethylbenzene	2.4893	2.4849	25.00	24.96	ug/L	0	20	0.0500	u
2-Chlorotoluene	2.5008	2.4235	25.00	24.23	ug/L	-3	20	0.0500	u
4-Chlorotoluene	2.3461	2.2954	25.00	24.46	ug/L	-2	20	0.0500	u
tert-Butylbenzene	2.0535	1.9805	25.00	24.11	ug/L	-4	20	0.0500	u
1,2,4-Trimethylbenzene	2.5618	2.5709	25.00	25.09	ug/L	0	20	0.0500	u
sec-Butylbenzene	3.0582	3.1480	25.00	25.73	ug/L	3	20	0.0500	u
para-Isopropyl Toluene	2.4448	2.4334	25.00	24.88	ug/L	0	20	0.0500	u
1,3-Dichlorobenzene	1.5870	1.4788	25.00	23.30	ug/L	-7	20	0.0500	u
1,4-Dichlorobenzene	1.5745	1.5172	25.00	24.09	ug/L	-4	20	0.0500	u
n-Butylbenzene	2.2190	2.2772	25.00	25.66	ug/L	3	20	0.0500	u
1,2-Dichlorobenzene	1.4902	1.4257	25.00	23.92	ug/L	-4	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1253	0.1296	25.00	25.86	ug/L	3	20	0.0500	u
1,2,4-Trichlorobenzene	0.8564	0.7653	25.00	22.34	ug/L	-11	20	0.0500	u
Hexachlorobutadiene	0.2688	0.2885	25.00	26.83	ug/L	7	20	0.0500	u
Naphthalene	1.8704	1.5780	25.00	21.09	ug/L	-16	20	0.0500	u
1,2,3-Trichlorobenzene	0.7520	0.6766	25.00	22.50	ug/L	-10	20	0.0500	u
Dibromofluoromethane	0.5296	0.5282	50.00	49.87	ug/L	0	20	0.0500	u
1,2-Dichloroethane-d4	0.3354	0.3428	50.00	51.10	ug/L	2	20	0.0500	u
Toluene-d8	0.9733	0.9723	50.00	49.95	ug/L	0	20	0.0500	u
Bromofluorobenzene	1.0362	1.0297	50.00	49.69	ug/L	-1	20	0.0500	u

ISTD (ICAL ijn13)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	851567	929531	9.16	10.97	10.96	-0.01
1,4-Difluorobenzene	1235433	1333654	7.95	12.20	12.19	-0.01
Chlorobenzene-d5	887467	937040	5.59	16.61	16.61	0.00
1,4-Dichlorobenzene-d4	433869	440930	1.63	19.08	19.07	-0.01

Analyst: JCP Date: 11/01/07 Reviewer: WNH Date: 11/01/07

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure u=use v=ICV

487438254003.8

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSVOA Water
EPA 8260B

Inst : MSVOA09 IDF : 1.0
Seqnum : 487438254011.1 File : ijv11 Time : 31-OCT-2007 14:04
Cal : 487426947001 Caldate : 23-OCT-2007 Caltype : WATER
Standards: S7480 (10000X), S7498 (10000X), S7415 (10000X), S7437 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.2811	0.2943	25.00	26.17	ug/L	5	20	0.0500	
Chloromethane	0.5005	0.4168	25.00	20.82	ug/L	-17	20	0.1000	
Vinyl Chloride	0.4041	0.3343	25.00	20.68	ug/L	-17	20	0.0500	
Bromomethane	0.2353	0.1628	25.00	17.29	ug/L	**-31**	20	0.0500	c- m ***
Chloroethane	0.2309	0.2033	25.00	22.02	ug/L	-12	20	0.0500	
Trichlorofluoromethane	0.4974	0.4250	25.00	21.36	ug/L	-15	20	0.0500	
Acetone	0.1319	0.1027	25.00	19.47	ug/L	-22	30	0.0500	
Freon 113	0.3448	0.2910	25.00	20.40	ug/L	-18	20	0.0500	
1,1-Dichloroethene	0.3137	0.2759	25.00	21.99	ug/L	-12	20	0.0500	
Methylene Chloride	0.4213	0.3730	25.00	22.13	ug/L	-11	20	0.0500	
Carbon Disulfide	1.3258	0.9852	25.00	18.58	ug/L	**-26**	20	0.0500	c- ***
MTBE	0.9615	0.8363	25.00	21.74	ug/L	-13	20	0.0500	
trans-1,2-Dichloroethene	0.3778	0.3311	25.00	21.91	ug/L	-12	20	0.0500	
Vinyl Acetate	0.8193	0.6841	25.00	20.87	ug/L	-17	30	0.0500	rsd ***
1,1-Dichloroethane	0.6792	0.6090	25.00	22.42	ug/L	-10	20	0.1000	
2-Butanone	0.1878	0.1616	25.00	21.51	ug/L	-14	30	0.0500	
2,2-Dichloropropane	0.3948	0.3831	25.00	24.26	ug/L	-3	20	0.0500	
cis-1,2-Dichloroethene	0.4201	0.3872	25.00	23.04	ug/L	-8	20	0.0500	
Chloroform	0.6405	0.5651	25.00	22.06	ug/L	-12	20	0.0500	
Bromochloromethane	0.2248	0.1964	25.00	21.85	ug/L	-13	20	0.0500	
1,1,1-Trichloroethane	0.4330	0.3917	25.00	22.61	ug/L	-10	20	0.0500	
1,1-Dichloropropene	0.3212	0.3033	25.00	23.60	ug/L	-6	20	0.0500	
Carbon Tetrachloride	0.2392	0.2430	25.00	25.40	ug/L	2	20	0.0500	
1,2-Dichloroethane	0.3172	0.2794	25.00	22.02	ug/L	-12	20	0.0500	
Benzene	0.9886	0.9156	25.00	23.15	ug/L	-7	20	0.0500	
Trichloroethene	0.2647	0.2391	25.00	22.59	ug/L	-10	20	0.0500	
1,2-Dichloropropane	0.2967	0.2693	25.00	22.69	ug/L	-9	20	0.0500	
Bromodichloromethane	0.3169	0.2986	25.00	23.56	ug/L	-6	20	0.0500	
Dibromomethane	0.1910	0.1738	25.00	22.76	ug/L	-9	20	0.0500	
4-Methyl-2-Pentanone	0.2652	0.2382	25.00	22.46	ug/L	-10	30	0.0500	
cis-1,3-Dichloropropene	0.3882	0.3684	25.00	23.73	ug/L	-5	20	0.0500	
Toluene	0.5834	0.5461	25.00	23.40	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.3331	0.2906	25.00	21.81	ug/L	-13	20	0.0500	
1,1,2-Trichloroethane	0.1306	0.1240	25.00	23.73	ug/L	-5	20	0.0500	
2-Hexanone	0.2467	0.2320	25.00	23.51	ug/L	-6	30	0.0500	
1,3-Dichloropropane	0.5331	0.5243	25.00	24.59	ug/L	-2	20	0.0500	
Tetrachloroethene	0.3319	0.3436	25.00	25.88	ug/L	4	20	0.0500	
Dibromochloromethane	0.3403	0.3463	25.00	25.44	ug/L	2	20	0.0500	
1,2-Dibromoethane	0.2687	0.2455	25.00	22.84	ug/L	-9	20	0.0500	
Chlorobenzene	0.9619	0.9033	25.00	23.48	ug/L	-6	20	0.3000	
1,1,1,2-Tetrachloroethane	0.3169	0.3073	25.00	24.24	ug/L	-3	20	0.0500	
Ethylbenzene	1.5060	1.4856	25.00	24.66	ug/L	-1	20	0.0500	
m,p-Xylenes	0.5678	0.5629	50.00	49.57	ug/L	-1	20	0.0500	
o-Xylene	0.5755	0.5498	25.00	23.88	ug/L	-4	20	0.0500	
Styrene	0.9640	0.9947	25.00	25.80	ug/L	3	20	0.0500	
Bromoform	0.1964	0.2212	25.00	23.88	ug/L	-4	20	0.1000	
Isopropylbenzene	2.8799	2.5885	25.00	22.47	ug/L	-10	20	0.0500	
1,1,2,2-Tetrachloroethane	0.9311	0.8794	25.00	23.61	ug/L	-6	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.2134	0.2102	25.00	24.63	ug/L	-1	20	0.0500	
Propylbenzene	3.6396	3.5958	25.00	24.70	ug/L	-1	20	0.0500	
Bromobenzene	0.8690	0.8348	25.00	24.02	ug/L	-4	20	0.0500	
1,3,5-Trimethylbenzene	2.4893	2.4919	25.00	25.03	ug/L	0	20	0.0500	
2-Chlorotoluene	2.5008	2.3764	25.00	23.76	ug/L	-5	20	0.0500	
4-Chlorotoluene	2.3461	2.1926	25.00	23.36	ug/L	-7	20	0.0500	
tert-Butylbenzene	2.0535	1.9687	25.00	23.97	ug/L	-4	20	0.0500	
1,2,4-Trimethylbenzene	2.5618	2.5267	25.00	24.66	ug/L	-1	20	0.0500	
sec-Butylbenzene	3.0582	3.0658	25.00	25.06	ug/L	0	20	0.0500	
para-Isopropyl Toluene	2.4448	2.3823	25.00	24.36	ug/L	-3	20	0.0500	
1,3-Dichlorobenzene	1.5870	1.4691	25.00	23.14	ug/L	-7	20	0.0500	
1,4-Dichlorobenzene	1.5745	1.5048	25.00	23.89	ug/L	-4	20	0.0500	
n-Butylbenzene	2.2190	2.2662	25.00	25.53	ug/L	2	20	0.0500	
1,2-Dichlorobenzene	1.4902	1.4043	25.00	23.56	ug/L	-6	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1253	0.1138	25.00	22.69	ug/L	-9	20	0.0500	
1,2,4-Trichlorobenzene	0.8564	0.7553	25.00	22.05	ug/L	-12	20	0.0500	
Hexachlorobutadiene	0.2688	0.2757	25.00	25.64	ug/L	3	20	0.0500	
Naphthalene	1.8704	1.5484	25.00	20.70	ug/L	-17	20	0.0500	
1,2,3-Trichlorobenzene	0.7520	0.6553	25.00	21.79	ug/L	-13	20	0.0500	
Dibromofluoromethane	0.5296	0.5075	50.00	47.91	ug/L	-4	20	0.0500	
1,2-Dichloroethane-d4	0.3354	0.3211	50.00	47.86	ug/L	-4	20	0.0500	
Toluene-d8	0.9733	0.9636	50.00	49.50	ug/L	-1	20	0.0500	
Bromofluorobenzene	1.0362	1.0092	50.00	48.70	ug/L	-3	20	0.0500	

ISTD (ICAL ijn13)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	851567	953115	11.92	10.97	10.96	-0.01
1,4-Difluorobenzene	1235433	1359956	10.08	12.20	12.20	0.00
Chlorobenzene-d5	887467	948845	6.92	16.61	16.60	-0.01
1,4-Dichlorobenzene-d4	433869	457921	5.54	19.08	19.08	0.00

Analyst: JCP Date: 11/01/07 Reviewer: WNH Date: 11/01/07

-=low bias c=CCV m=manual integration rsd=ICAL %RSD failure

487438254011.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 447438217

Date : 10/31/07
Sequence : MSVOA05 ejv

Reference : ej215
Analyzed : 10/02/07 14:36

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	447551	10.00	758579	11.13	636485	15.20	330123	17.92
		LOWER LIMIT	223776	9.50	379290	10.63	318243	14.70	165062	17.42
		UPPER LIMIT	895102	10.50	1517158	11.63	1272970	15.70	660246	18.42
003	CCV/BS	QC413029	635066	10.00	1045927	11.13	877840	15.20	411779	17.92
004	BSD	QC413030	642880	10.00	1056621	11.12	877514	15.19	413933	17.91
006	BLANK	QC413031	608087	10.01	1032365	11.12	845049	15.19	318418	17.91
007	SAMPLE	198768-004	602834	10.00	1023640	11.12	843400	15.19	309610	17.91
008	SAMPLE	198807-001	605616	10.00	1029746	11.12	845953	15.19	306499	17.91
009	SAMPLE	198818-009	595452	10.01	1028592	11.12	834668	15.19	303067	17.91
010	SAMPLE	198688-001	583376	10.00	1010577	11.12	834870	15.19	300777	17.91
011	SAMPLE	198688-002	585049	10.00	1017662	11.12	830058	15.19	300160	17.91
012	SAMPLE	198688-003	580267	10.00	1013099	11.12	829269	15.19	297817	17.91
013	SAMPLE	198688-004	588149	10.00	1020780	11.12	826552	15.19	298717	17.91
014	SAMPLE	198688-005	592990	10.00	1023369	11.12	842483	15.19	297895	17.91
015	SAMPLE	198688-006	580454	10.00	1000947	11.12	829703	15.19	297564	17.91
016	SAMPLE	198688-007	575578	10.00	1030745	11.13	829698	15.20	299625	17.92
017	SAMPLE	198688-008	570369	10.00	1019043	11.13	822152	15.20	296059	17.92
018	SAMPLE	198688-009	576611	10.00	1010140	11.12	829761	15.19	290498	17.91
019	SAMPLE	198688-010	571850	10.00	1018444	11.13	831616	15.20	297622	17.92
020	SAMPLE	198688-011	573218	10.00	1018441	11.12	829711	15.19	298260	17.91
021	SAMPLE	198688-012	564907	10.00	1002133	11.12	832416	15.20	293112	17.92
022	SAMPLE	198688-013	562849	10.00	1012419	11.12	824855	15.19	293032	17.91
023	SAMPLE	198768-002	586737	10.00	1019215	11.12	833464	15.20	294705	17.92
024	SAMPLE	198688-014	602164	10.00	1045609	11.12	872886	15.20	339926	17.91
025	SAMPLE	198688-015	664932	10.00	1091311	11.13	928211	15.20	399422	17.92

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 487438254

Date : 10/31/07
Sequence : MSVOA09 ijv

Reference : ijn13
Analyzed : 10/23/07 18:54

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	851567	10.97	1235433	12.20	887467	16.61	433869	19.08
		LOWER LIMIT	425784	10.47	617717	11.70	443734	16.11	216935	18.58
		UPPER LIMIT	1703134	11.47	2470866	12.70	1774934	17.11	867738	19.58
003	CCV/BS	QC413033	929531	10.96	1333654	12.19	937040	16.61	440930	19.07
004	BSD	QC413034	943614	10.96	1345777	12.20	932438	16.61	433411	19.07
006	BLANK	QC413032	975351	10.96	1385392	12.20	957580	16.60	453975	19.08
007	SAMPLE	198493-010	361780 *	10.96	1355090	12.20	928083	16.61	427100	19.07
008	SAMPLE	198818-008	944766	10.96	1343905	12.20	939569	16.60	444421	19.08
009	SAMPLE	198772-003	807837	10.96	1098268	12.20	749695	16.61	358884	19.07
011	CCV		953115	10.96	1359956	12.20	948845	16.60	457921	19.08
013	BLANK	QC413035	916415	10.96	1302517	12.20	918433	16.61	451925	19.08
014	SAMPLE	198622-006	948188	10.96	1336743	12.20	932770	16.61	443957	19.08
015	SAMPLE	198762-002	943282	10.96	1339401	12.20	928474	16.61	443455	19.08
016	SAMPLE	198818-008	932577	10.97	1327639	12.21	924787	16.61	449910	19.08
017	SAMPLE	198770-001	902676	10.96	1292194	12.21	903256	16.61	437797	19.08
018	SAMPLE	198770-002	898565	10.97	1280542	12.21	915002	16.61	440584	19.08
019	SAMPLE	198770-003	882975	10.97	1249025	12.21	889017	16.61	436041	19.08
020	SAMPLE	198770-004	877623	10.96	1252953	12.20	901188	16.61	433015	19.08
021	SAMPLE	198622-007	917124	10.97	1296520	12.21	918160	16.61	444534	19.08
022	SAMPLE	198772-007	877572	10.97	1267657	12.20	905947	16.61	440256	19.08
023	SAMPLE	198772-010	900744	10.96	1286214	12.20	892029	16.61	432809	19.08
024	SAMPLE	198726-001	895682	10.96	1292548	12.20	908117	16.61	447608	19.08
025	SAMPLE	198727-005	932914	10.96	1318858	12.20	913045	16.61	445119	19.08
026	SAMPLE	198727-006	877029	10.96	1255415	12.20	885834	16.61	432291	19.08
027	SAMPLE	198762-003	899827	10.96	1276707	12.20	890089	16.61	435341	19.07
028	SAMPLE	198762-004	858504	10.97	1240623	12.20	879088	16.60	425461	19.08
029	SAMPLE	198772-008	873677	10.96	1250182	12.20	884277	16.61	424666	19.08
030	SAMPLE	198772-001	859898	10.96	1215913	12.20	876591	16.61	428045	19.07
031	SAMPLE	198772-006	860186	10.96	1248505	12.20	878590	16.61	426816	19.08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 447396473

Instrument : MSVOA05
Method : EPA 8260B

Begun : 10/02/07 07:53
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	ej201	X	IB			10/02/07 07:53	1.0	1
002	ej202	X	BFB			10/02/07 08:19	1.0	2
003	ej203	X	20PPB			10/02/07 08:36	1.0	3 4 5 1
004	ej204	X	IB			10/02/07 09:07	1.0	1
005	ej205	X	IB			10/02/07 09:39	1.0	1
006	ej206	X	IB			10/02/07 10:11	1.0	1
007	ej207	TUN	BFB			10/02/07 10:40	1.0	2
008	ej208	IB	CALIB IB			10/02/07 10:53	1.0	1
009	ej209	ICAL	0.25/0.5PPB			10/02/07 11:25	1.0	6 7 8 1
010	ej210	ICAL	0.5/1PPB			10/02/07 11:56	1.0	6 7 8 1
011	ej211	ICAL	2PPB			10/02/07 12:28	1.0	6 7 8 1
012	ej212	ICAL	5PPB			10/02/07 13:00	1.0	6 7 8 1
013	ej213	ICAL	10PPB			10/02/07 13:32	1.0	6 7 8 1
014	ej214	ICAL	20PPB			10/02/07 14:04	1.0	3 4 5 1
015	ej215	ICAL	50PPB			10/02/07 14:36	1.0	3 4 5 1
016	ej216	ICAL	75PPB			10/02/07 15:08	1.0	3 4 5 1
017	ej217	ICAL	100PPB			10/02/07 15:40	1.0	3 4 5 1
018	ej218	ICV	40PPB			10/02/07 16:50	1.0	9 1
019	ej219	ICV	40PPB			10/02/07 17:22	1.0	10 11 1
020	ej220	X	IB			10/02/07 17:54	1.0	1
021	ej221	X	IB			10/02/07 18:26	1.0	1

Analyst: BO Date: 10/03/07 Reviewer: LW Date: 10/03/07

Standards used: 1=S6961 2=S6497 3=S7147 4=S7198 5=S6352 6=S7150 7=S7149 8=S7235 9=S7275 10=S7229 11=S7051

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 447438217

Instrument : MSVOA05
Method : EPA 8260B

Begun : 10/31/07 07:37
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ejv01	X	IB			10/31/07 07:37	1.0	1	
002	ejv02	TUN	BFB			10/31/07 08:06	1.0	2	
003	ejv03	CCV/BS	QC413029	Water	131137	10/31/07 08:20	1.0	3 4 5 1	
004	ejv04	BSD	QC413030	Water	131137	10/31/07 08:52	1.0	3 4 5 1	
005	ejv05	X	IB			10/31/07 09:24	1.0	1	
006	ejv06	BLANK	QC413031	Water	131137	10/31/07 09:56	1.0	1	
007	ejv07	SAMPLE	198768-004	Water	131137	10/31/07 10:27	1.0	1	
008	ejv08	SAMPLE	198807-001	Water	131137	10/31/07 10:59	1.0	1	
009	ejv09	SAMPLE	198818-009	Water	131137	10/31/07 11:31	1.0	1	
010	ejv10	SAMPLE	198688-001	Water	131137	10/31/07 12:03	1.0	1	
011	ejv11	SAMPLE	198688-002	Water	131137	10/31/07 12:34	1.0	1	
012	ejv12	SAMPLE	198688-003	Water	131137	10/31/07 13:06	1.0	1	
013	ejv13	SAMPLE	198688-004	Water	131137	10/31/07 13:38	1.0	1	
014	ejv14	SAMPLE	198688-005	Water	131137	10/31/07 14:10	1.0	1	
015	ejv15	SAMPLE	198688-006	Water	131137	10/31/07 14:41	1.0	1	
016	ejv16	SAMPLE	198688-007	Water	131137	10/31/07 15:13	1.0	1	
017	ejv17	SAMPLE	198688-008	Water	131137	10/31/07 15:45	1.0	1	
018	ejv18	SAMPLE	198688-009	Water	131137	10/31/07 16:17	1.0	1	
019	ejv19	SAMPLE	198688-010	Water	131137	10/31/07 16:48	1.0	1	
020	ejv20	SAMPLE	198688-011	Water	131137	10/31/07 17:20	1.0	1	
021	ejv21	SAMPLE	198688-012	Water	131137	10/31/07 17:53	1.0	1	
022	ejv22	SAMPLE	198688-013	Water	131137	10/31/07 18:25	1.0	1	
023	ejv23	SAMPLE	198768-002	Water	131137	10/31/07 18:57	1.429	1	
024	ejv24	SAMPLE	198688-014	Water	131137	10/31/07 19:29	33.33	1	
025	ejv25	SAMPLE	198688-015	Water	131137	10/31/07 20:01	50.0	1	2:XYLMP=210
026	ejv26	X	IB			10/31/07 20:32	1.0	1	
027	ejv27	X	IB			10/31/07 21:04	1.0	1	
028	ejv28	X	IB			10/31/07 21:36	1.0	1	

Analyst: BO Date: 11/01/07 Reviewer: LW Date: 11/01/07

Standards used: 1=S7365 2=S6497 3=S7480 4=S7415 5=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 487426947

Instrument : MSVOA09
Method : EPA 8260B

Begun : 10/23/07 11:47
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	ijn01	X	IB			10/23/07 11:47	1.0	1
002	ijn02	X	LOWPOINT			10/23/07 12:21	1.0	1
003	ijn03	TUN	BFB			10/23/07 13:20	1.0	2
004	ijn04	X	IB			10/23/07 13:50	1.0	1
005	ijn05	X	IB			10/23/07 14:24	1.0	1
006	ijn06	IB	CALIB			10/23/07 14:58	1.0	1
007	ijn07	ICAL	0.25/0.5PPB			10/23/07 15:31	1.0	3 4 5 1
008	ijn08	ICAL	0.5/1PPB			10/23/07 16:05	1.0	3 4 5 1
009	ijn09	ICAL	2PPB			10/23/07 16:39	1.0	3 4 5 1
010	ijn10	ICAL	5PPB			10/23/07 17:13	1.0	3 4 5 1
011	ijn11	ICAL	10PPB			10/23/07 17:46	1.0	3 4 5 1
012	ijn12	ICAL	20PPB			10/23/07 18:20	1.0	3 4 5 1
013	ijn13	ICAL	50PPB			10/23/07 18:54	1.0	3 4 5 1
014	ijn14	ICAL	75PPB			10/23/07 19:27	1.0	3 4 5 1
015	ijn15	ICAL	100PPB			10/23/07 20:01	1.0	3 4 5 1
016	ijn16	ICV				10/23/07 20:35	1.0	6 1
017	ijn17	ICV				10/23/07 21:09	1.0	7 8 1
018	ijn18	X	IB			10/23/07 21:42	1.0	1
019	ijn19	X	IB			10/23/07 22:16	1.0	1
020	ijn20	X	IB			10/23/07 22:50	1.0	1

Analyst: JCP Date: 10/24/07 Reviewer: LW Date: 10/24/07

Standards used: 1=S7437 2=S6497 3=S7417 4=S7403 5=S6351 6=S7415 7=S7480 8=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 487438254

Instrument : MSVOA09
Method : EPA 8260B

Begun : 10/31/07 08:14
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ijv01	X	IB			10/31/07 08:14	1.0	1	
002	ijv02	TUN	BFB			10/31/07 08:50	1.0	2	
003	ijv03	CCV/BS	QC413033	Water	131138	10/31/07 09:21	1.0	3 4 5 1	
004	ijv04	BSD	QC413034	Water	131138	10/31/07 10:03	1.0	3 4 5 1	
005	ijv05	X	IB			10/31/07 10:37	1.0	1	
006	ijv06	BLANK	QC413032	Water	131138	10/31/07 11:11	1.0	1	
007	ijv07	SAMPLE	198493-010	Water	131138	10/31/07 11:45	1.0	1	headspace > 1 mL, pH > 2, 4:M4THF=390
008	ijv08	SAMPLE	198818-008	Water	131138	10/31/07 12:19	1.0	1	
009	ijv09	SAMPLE	198772-003	Water	131138	10/31/07 13:06	1.0	1	
010	ijv10	TUN	BFB			10/31/07 13:35	1.0	2	
011	ijv11	CCV				10/31/07 14:04	1.0	3 4 5 1	
012	ijv12	X	IB			10/31/07 14:45	1.0	1	
013	ijv13	BLANK	QC413035	Water	131138	10/31/07 15:19	1.0	1	
014	ijv14	SAMPLE	198622-006	Water	131138	10/31/07 15:53	1.0	1	
015	ijv15	SAMPLE	198762-002	Water	131138	10/31/07 16:27	1.0	1	
016	ijv16	SAMPLE	198818-008	Water	131138	10/31/07 17:00	1.0	1	
017	ijv17	SAMPLE	198770-001	Water	131138	10/31/07 17:34	1.0	1	
018	ijv18	SAMPLE	198770-002	Water	131138	10/31/07 18:08	1.0	1	
019	ijv19	SAMPLE	198770-003	Water	131138	10/31/07 18:42	1.0	1	
020	ijv20	SAMPLE	198770-004	Water	131138	10/31/07 19:16	1.0	1	
021	ijv21	SAMPLE	198622-007	Water	131138	10/31/07 19:50	1.0	1	
022	ijv22	SAMPLE	198772-007	Water	131138	10/31/07 20:24	1.0	1	
023	ijv23	SAMPLE	198772-010	Water	131138	10/31/07 20:57	1.0	1	
024	ijv24	SAMPLE	198726-001	Water	131138	10/31/07 21:31	1.429	1	
025	ijv25	SAMPLE	198727-005	Water	131138	10/31/07 22:05	8.333	1	
026	ijv26	SAMPLE	198727-006	Water	131138	10/31/07 22:39	8.333	1	
027	ijv27	SAMPLE	198762-003	Water	131138	10/31/07 23:13	8.333	1	
028	ijv28	SAMPLE	198762-004	Water	131138	10/31/07 23:47	8.333	1	
029	ijv29	SAMPLE	198772-008	Water	131138	11/01/07 00:21	8.333	1	1:TCE=310
030	ijv30	SAMPLE	198772-001	Water	131138	11/01/07 00:54	16.67	1	
031	ijv31	SAMPLE	198772-006	Water	131138	11/01/07 01:28	14.29	1	1:TCE=280
032	ijv32	X	IB			11/01/07 02:02	1.0	1	
033	ijv33	X	IB			11/01/07 02:36	1.0	1	
034	ijv34	X	IB			11/01/07 03:10	1.0	1	
035	ijv35	X	TVH2000			11/01/07 03:44	1.0	1	

Analyst: JCP Date: 11/01/07 Reviewer: LW Date: 11/01/07

Standards used: 1=S7437 2=S6497 3=S7480 4=S7498 5=S7415

REPORTING SUMMARY FOR 198818 MSVOA Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF
198818-008	MSVOA09	10/31/07 12:19	1.0
198818-008	MSVOA09	10/31/07 17:00	1.0
198818-009	MSVOA05	10/31/07 11:31	1.0
QC413029	MSVOA05	10/31/07 08:20	1.0
QC413030	MSVOA05	10/31/07 08:52	1.0
QC413031	MSVOA05	10/31/07 09:56	1.0
QC413032	MSVOA09	10/31/07 11:11	1.0
QC413033	MSVOA09	10/31/07 09:21	1.0
QC413034	MSVOA09	10/31/07 10:03	1.0
QC413035	MSVOA09	10/31/07 15:19	1.0

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 10/31/07

PREPPED BY.

131137 WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	198768-4		C	<2			5	MW 1X, TCE co-	
2	-2		↓	<2				MW 1.42x, DO	
3	198807-1		A					1X	
4	198688-1							TB	
5	-2							TB	
6	-3		B					1X	
7	-4		↓						
8	-5		A						
9	-6								
10	-7								
11	-8								
12	-9								
13	-10								
14	-11		↓						
15	-12		B						
16	-13		↓	↓					
17	-14		C	<2				33.3X	
18	-15		B	↓				50X	
19	198818-9		↓	<2				TB	
20									
21									
22									
23									
24			-						
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 10/31/07

PREPPED BY.

WATER

B# 131138

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	198493-010		C	7	2mL		9	RR1X OD (Anomalous vials)	Hold 10/31
2	~~198694-001~~		~~—~~	~~—~~				RR25X OD - Does not need	to rerun
3	198818-008		C	<2				1X	Rush due 11/01
4	198772-001		↓	<2				16.7X	
5	-003		B	↓				1X	
6	-006		C	<2				14.2X high NT	
7	-007		B	↓				1X	
8	-008		↓	<2				8.33X	
9	-010			↓				1X	
10	198622-006		A	↓				TB	Raw
11	-009		B	↓				1X	~~Put~~
12	198626-013 comp		A	—				1X comp 1-4	~~off~~
13	-014		↓	↓				comp 5-8	Put
14	-015		↓	↓				↓ comp 9-12	off
15	198770-001		C	<2				1X	
16	-002		↓	↓				↓	
17	-003		↓	↓					
18	-004		↓	↓					
19	198762-002		A	↓				TB	
20	-003		B	<2				8.3X silty	
21	-004		↓	↓				8.3X ↓	
22	198727-005		C	<2				RR ~~1.42X~~ OD 8.3X	
23	-006		↓	↓				8.3X	
24	198726-001		↓	↓				~~8.3X~~ ↓ 1.42X	
25	198818-008		D	<2				RR 1X LO	
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									

11/01/07

Curtis & Tompkins, Ltd.

Volatile Organics
Soil

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX350[4.0]	Basis:	dry
Lab ID:	198818-001	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg		

Moisture: 20%

Analyte	Result	RL	MDL	Dil'n Fac	Batch#	Analyzed
Freon 12	ND	2,500	190	200.0	131304	11/05/07
Chloromethane	ND	2,500	140	200.0	131304	11/05/07
Vinyl Chloride	ND	2,500	120	200.0	131304	11/05/07
Bromomethane	ND	2,500	220	200.0	131304	11/05/07
Chloroethane	ND	2,500	320	200.0	131304	11/05/07
Trichlorofluoromethane	ND	1,300	96	200.0	131304	11/05/07
Acetone	ND	5,000	700	200.0	131304	11/05/07
Freon 113	ND	1,300	150	200.0	131304	11/05/07
1,1-Dichloroethene	ND	1,300	300	200.0	131304	11/05/07
Methylene Chloride	1,200 J b	5,000	480	200.0	131304	11/05/07
Carbon Disulfide	ND	1,300	360	200.0	131304	11/05/07
MTBE	ND	1,300	160	200.0	131304	11/05/07
trans-1,2-Dichloroethene	ND	1,300	150	200.0	131304	11/05/07
Vinyl Acetate	ND	13,000	130	200.0	131304	11/05/07
1,1-Dichloroethane	ND	1,300	160	200.0	131304	11/05/07
2-Butanone	ND	2,500	600	200.0	131304	11/05/07
cis-1,2-Dichloroethene	ND	1,300	110	200.0	131304	11/05/07
2,2-Dichloropropane	ND	1,300	120	200.0	131304	11/05/07
Chloroform	ND	1,300	110	200.0	131304	11/05/07
Bromochloromethane	ND	1,300	240	200.0	131304	11/05/07
1,1,1-Trichloroethane	ND	1,300	92	200.0	131304	11/05/07
1,1-Dichloropropene	ND	1,300	120	200.0	131304	11/05/07
Carbon Tetrachloride	ND	1,300	140	200.0	131304	11/05/07
1,2-Dichloroethane	ND	1,300	150	200.0	131304	11/05/07
Benzene	ND	1,300	110	200.0	131304	11/05/07
Trichloroethene	ND	1,300	100	200.0	131304	11/05/07
1,2-Dichloropropane	ND	1,300	140	200.0	131304	11/05/07
Bromodichloromethane	ND	1,300	150	200.0	131304	11/05/07
Dibromomethane	ND	1,300	230	200.0	131304	11/05/07
4-Methyl-2-Pentanone	ND	2,500	380	200.0	131304	11/05/07
cis-1,3-Dichloropropene	ND	1,300	150	200.0	131304	11/05/07
Toluene	ND	1,300	180	200.0	131304	11/05/07
trans-1,3-Dichloropropene	ND	1,300	140	200.0	131304	11/05/07
1,1,2-Trichloroethane	ND	1,300	240	200.0	131304	11/05/07
2-Hexanone	ND	2,500	210	200.0	131304	11/05/07
1,3-Dichloropropane	ND	1,300	92	200.0	131304	11/05/07
Tetrachloroethene	ND	1,300	120	200.0	131304	11/05/07
Dibromochloromethane	ND	1,300	110	200.0	131304	11/05/07
1,2-Dibromoethane	ND	1,300	210	200.0	131304	11/05/07
Chlorobenzene	ND	1,300	83	200.0	131304	11/05/07
1,1,1,2-Tetrachloroethane	ND	1,300	79	200.0	131304	11/05/07
Ethylbenzene	ND	1,300	100	200.0	131304	11/05/07
m,p-Xylenes	53 J	1,600	46	250.0	131245	11/02/07
o-Xylene	ND	1,300	120	200.0	131304	11/05/07
Styrene	ND	1,300	81	200.0	131304	11/05/07
Bromoform	ND	1,300	91	200.0	131304	11/05/07
Isopropylbenzene	140 J	1,600	69	250.0	131245	11/02/07
1,1,2,2-Tetrachloroethane	ND	1,300	130	200.0	131304	11/05/07
1,2,3-Trichloropropane	ND	1,300	120	200.0	131304	11/05/07

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX350[4.0]	Basis:	dry
Lab ID:	198818-001	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg		

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Propylbenzene	290 J	1,600	88	250.0	131245	11/02/07
Bromobenzene	ND	1,300	55	200.0	131304	11/05/07
1,3,5-Trimethylbenzene	ND	1,300	69	200.0	131304	11/05/07
2-Chlorotoluene	ND	1,300	93	200.0	131304	11/05/07
4-Chlorotoluene	ND	1,300	110	200.0	131304	11/05/07
tert-Butylbenzene	ND	1,300	52	200.0	131304	11/05/07
1,2,4-Trimethylbenzene	ND	1,300	63	200.0	131304	11/05/07
sec-Butylbenzene	270 J	1,300	50	200.0	131304	11/05/07
para-Isopropyl Toluene	350 J	1,300	80	200.0	131304	11/05/07
1,3-Dichlorobenzene	ND	1,300	100	200.0	131304	11/05/07
1,4-Dichlorobenzene	ND	1,300	94	200.0	131304	11/05/07
n-Butylbenzene	440 J	1,300	86	200.0	131304	11/05/07
1,2-Dichlorobenzene	ND	1,300	94	200.0	131304	11/05/07
1,2-Dibromo-3-Chloropropane	ND	1,300	150	200.0	131304	11/05/07
1,2,4-Trichlorobenzene	ND	1,300	110	200.0	131304	11/05/07
Hexachlorobutadiene	ND	1,300	98	200.0	131304	11/05/07
Naphthalene	ND	1,300	57	200.0	131304	11/05/07
1,2,3-Trichlorobenzene	ND	1,300	95	200.0	131304	11/05/07

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	86	80-124	200.0	131304	11/05/07
1,2-Dichloroethane-d4	81	79-136	200.0	131304	11/05/07
Toluene-d8	110	80-120	200.0	131304	11/05/07
Bromofluorobenzene	128 *	80-122	200.0	131304	11/05/07
Trifluorotoluene (MeOH)	96	55-146	200.0	131304	11/05/07

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP103007	Dil'n Fac:	400.0
Lab ID:	198818-002	Batch#:	131351
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/06/07

Moisture: 21%

Analyte	Result	RL	MDL
Freon 12	ND	5,100	81
Chloromethane	ND	5,100	33
Vinyl Chloride	ND	5,100	53
Bromomethane	ND	5,100	68
Chloroethane	ND	5,100	71
Trichlorofluoromethane	ND	2,500	61
Acetone	400 J	10,000	270
Freon 113	ND	2,500	130
1,1-Dichloroethene	ND	2,500	47
Methylene Chloride	1,000 J	10,000	26
Carbon Disulfide	ND	2,500	37
MTBE	ND	2,500	15
trans-1,2-Dichloroethene	ND	2,500	50
Vinyl Acetate	ND	25,000	21
1,1-Dichloroethane	ND	2,500	27
2-Butanone	ND	5,100	180
cis-1,2-Dichloroethene	ND	2,500	23
2,2-Dichloropropane	ND	2,500	33
Chloroform	ND	2,500	23
Bromochloromethane	ND	2,500	40
1,1,1-Trichloroethane	ND	2,500	35
1,1-Dichloropropene	ND	2,500	75
Carbon Tetrachloride	ND	2,500	86
1,2-Dichloroethane	ND	2,500	24
Benzene	ND	2,500	20
Trichloroethene	ND	2,500	70
1,2-Dichloropropane	ND	2,500	23
Bromodichloromethane	ND	2,500	20
Dibromomethane	ND	2,500	29
4-Methyl-2-Pentanone	ND	5,100	130
cis-1,3-Dichloropropene	ND	2,500	42
Toluene	ND	2,500	30
trans-1,3-Dichloropropene	ND	2,500	26
1,1,2-Trichloroethane	ND	2,500	42
2-Hexanone	ND	5,100	59
1,3-Dichloropropane	ND	2,500	40
Tetrachloroethene	ND	2,500	59
Dibromochloromethane	ND	2,500	22
1,2-Dibromoethane	ND	2,500	22
Chlorobenzene	ND	2,500	32
1,1,1,2-Tetrachloroethane	ND	2,500	35
Ethylbenzene	ND	2,500	32
m,p-Xylenes	120 J	2,500	79
o-Xylene	ND	2,500	41
Styrene	ND	2,500	18
Bromoform	ND	2,500	23
Isopropylbenzene	500 J	2,500	63
1,1,2,2-Tetrachloroethane	ND	2,500	36
1,2,3-Trichloropropane	ND	2,500	45

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP103007	Dil'n Fac:	400.0
Lab ID:	198818-002	Batch#:	131351
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/06/07

Analyte	Result	RL	MDL
Propylbenzene	1,100 J	2,500	53
Bromobenzene	ND	2,500	47
1,3,5-Trimethylbenzene	ND	2,500	41
2-Chlorotoluene	ND	2,500	42
4-Chlorotoluene	ND	2,500	32
tert-Butylbenzene	ND	2,500	48
1,2,4-Trimethylbenzene	110 J	2,500	28
sec-Butylbenzene	780 J	2,500	60
para-Isopropyl Toluene	1,300 J	2,500	42
1,3-Dichlorobenzene	ND	2,500	37
1,4-Dichlorobenzene	ND	2,500	49
n-Butylbenzene	1,400 J	2,500	57
1,2-Dichlorobenzene	ND	2,500	49
1,2-Dibromo-3-Chloropropane	ND	2,500	130
1,2,4-Trichlorobenzene	ND	2,500	61
Hexachlorobutadiene	ND	2,500	230
Naphthalene	ND	2,500	28
1,2,3-Trichlorobenzene	ND	2,500	66

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-124
1,2-Dichloroethane-d4	110	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	98	80-122
Trifluorotoluene (MeOH)	DO	55-146

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX351[4.0]	Diln Fac:	0.8621
Lab ID:	198818-003	Batch#:	131189
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/01/07

Moisture: 8%

Analyte	Result	RL	MDL
Freon 12	ND	9.4	0.87
Chloromethane	ND	9.4	0.56
Vinyl Chloride	ND	9.4	0.47
Bromomethane	ND	9.4	0.77
Chloroethane	ND	9.4	0.77
Trichlorofluoromethane	ND	4.7	0.81
Acetone	1.9 J	19	0.73
Freon 113	ND	4.7	1.9
1,1-Dichloroethene	ND	4.7	0.30
Methylene Chloride	1.4 J	19	0.49
Carbon Disulfide	ND	4.7	0.50
MTBE	ND	4.7	0.67
trans-1,2-Dichloroethene	ND	4.7	0.54
Vinyl Acetate	ND	47	0.64
1,1-Dichloroethane	ND	4.7	0.72
2-Butanone	ND	9.4	0.95
cis-1,2-Dichloroethene	ND	4.7	0.73
2,2-Dichloropropane	ND	4.7	0.64
Chloroform	ND	4.7	0.51
Bromochloromethane	ND	4.7	0.64
1,1,1-Trichloroethane	ND	4.7	0.42
1,1-Dichloropropene	ND	4.7	0.60
Carbon Tetrachloride	ND	4.7	0.82
1,2-Dichloroethane	ND	4.7	0.63
Benzene	ND	4.7	0.67
Trichloroethene	ND	4.7	0.75
1,2-Dichloropropane	ND	4.7	0.83
Bromodichloromethane	ND	4.7	0.79
Dibromomethane	ND	4.7	0.66
4-Methyl-2-Pentanone	ND	9.4	0.59
cis-1,3-Dichloropropene	ND	4.7	0.61
Toluene	ND	4.7	0.64
trans-1,3-Dichloropropene	ND	4.7	0.62
1,1,2-Trichloroethane	ND	4.7	0.65
2-Hexanone	ND	9.4	0.77
1,3-Dichloropropane	ND	4.7	0.60
Tetrachloroethene	ND	4.7	0.69
Dibromochloromethane	ND	4.7	0.66
1,2-Dibromoethane	ND	4.7	0.67
Chlorobenzene	ND	4.7	0.61
1,1,1,2-Tetrachloroethane	ND	4.7	0.54
Ethylbenzene	ND	4.7	0.49
m,p-Xylenes	ND	4.7	0.97
o-Xylene	ND	4.7	0.54
Styrene	ND	4.7	0.67
Bromoform	ND	4.7	0.54
Isopropylbenzene	ND	4.7	0.50
1,1,2,2-Tetrachloroethane	ND	4.7	0.65
1,2,3-Trichloropropane	ND	4.7	0.64
Propylbenzene	ND	4.7	0.54

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

70.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX351[4.0]	Diln Fac:	0.8621
Lab ID:	198818-003	Batch#:	131189
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/01/07

Analyte	Result	RL	MDL
Bromobenzene	ND	4.7	0.82
1,3,5-Trimethylbenzene	ND	4.7	0.66
2-Chlorotoluene	ND	4.7	0.63
4-Chlorotoluene	ND	4.7	0.89
tert-Butylbenzene	ND	4.7	0.62
1,2,4-Trimethylbenzene	ND	4.7	0.69
sec-Butylbenzene	ND	4.7	0.71
para-Isopropyl Toluene	ND	4.7	0.63
1,3-Dichlorobenzene	ND	4.7	0.59
1,4-Dichlorobenzene	ND	4.7	0.64
n-Butylbenzene	ND	4.7	0.54
1,2-Dichlorobenzene	ND	4.7	0.85
1,2-Dibromo-3-Chloropropane	ND	4.7	0.82
1,2,4-Trichlorobenzene	ND	4.7	0.78
Hexachlorobutadiene	ND	4.7	0.53
Naphthalene	ND	4.7	0.50
1,2,3-Trichlorobenzene	ND	4.7	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	101	79-136
Toluene-d8	107	80-120
Bromofluorobenzene	88	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

70.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX352[4.0]	Dil'n Fac:	500.0
Lab ID:	198818-004	Batch#:	131245
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/02/07

Moisture: 17%

Analyte	Result	RL	MDL
Freon 12	ND	6,000	450
Chloromethane	ND	6,000	330
Vinyl Chloride	ND	6,000	280
Bromomethane	ND	6,000	540
Chloroethane	ND	6,000	780
Trichlorofluoromethane	ND	3,000	230
Acetone	ND	12,000	1,700
Freon 113	ND	3,000	360
1,1-Dichloroethene	ND	3,000	710
Methylene Chloride	4,500 J	12,000	1,200
Carbon Disulfide	ND	3,000	870
MTBE	ND	3,000	380
trans-1,2-Dichloroethene	ND	3,000	360
Vinyl Acetate	ND	30,000	320
1,1-Dichloroethane	ND	3,000	390
2-Butanone	ND	6,000	1,500
cis-1,2-Dichloroethene	ND	3,000	260
2,2-Dichloropropane	ND	3,000	290
Chloroform	ND	3,000	280
Bromochloromethane	ND	3,000	570
1,1,1-Trichloroethane	ND	3,000	220
1,1-Dichloropropene	ND	3,000	290
Carbon Tetrachloride	ND	3,000	340
1,2-Dichloroethane	ND	3,000	360
Benzene	ND	3,000	260
Trichloroethene	ND	3,000	250
1,2-Dichloropropane	ND	3,000	340
Bromodichloromethane	ND	3,000	360
Dibromomethane	ND	3,000	540
4-Methyl-2-Pentanone	ND	6,000	910
cis-1,3-Dichloropropene	ND	3,000	370
Toluene	ND	3,000	440
trans-1,3-Dichloropropene	ND	3,000	330
1,1,2-Trichloroethane	ND	3,000	580
2-Hexanone	ND	6,000	500
1,3-Dichloropropane	ND	3,000	220
Tetrachloroethene	ND	3,000	290
Dibromochloromethane	ND	3,000	270
1,2-Dibromoethane	ND	3,000	520
Chlorobenzene	ND	3,000	200
1,1,1,2-Tetrachloroethane	ND	3,000	190
Ethylbenzene	ND	3,000	240
m,p-Xylenes	ND	3,000	89
o-Xylene	ND	3,000	290
Styrene	ND	3,000	190
Bromoform	ND	3,000	220
Isopropylbenzene	3,700	3,000	130
1,1,2,2-Tetrachloroethane	ND	3,000	300

*= Value outside of QC limits; see narrative
J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

71.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX352[4.0]	Diln Fac:	500.0
Lab ID:	198818-004	Batch#:	131245
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/02/07

Analyte	Result	RL	MDL
1,2,3-Trichloropropane	ND	3,000	280
Propylbenzene	5,500	3,000	170
Bromobenzene	ND	3,000	130
1,3,5-Trimethylbenzene	ND	3,000	170
2-Chlorotoluene	ND	3,000	220
4-Chlorotoluene	ND	3,000	270
tert-Butylbenzene	ND	3,000	120
1,2,4-Trimethylbenzene	ND	3,000	150
sec-Butylbenzene	2,000 J	3,000	120
para-Isopropyl Toluene	2,300 J	3,000	190
1,3-Dichlorobenzene	ND	3,000	240
1,4-Dichlorobenzene	ND	3,000	230
n-Butylbenzene	4,100	3,000	210
1,2-Dichlorobenzene	ND	3,000	230
1,2-Dibromo-3-Chloropropane	ND	3,000	370
1,2,4-Trichlorobenzene	ND	3,000	270
Hexachlorobutadiene	ND	3,000	240
Naphthalene	ND	3,000	140
1,2,3-Trichlorobenzene	ND	3,000	230

Surrogate	%REC	Limits
Dibromofluoromethane	87	80-124
1,2-Dichloroethane-d4	86	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	131 *	80-122
Trifluorotoluene (MeOH)	DO	55-146

*= Value outside of QC limits; see narrative
J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

71.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX353[4.0]	Diln Fac:	1.471
Lab ID:	198818-005	Batch#:	131141
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	10/31/07

Moisture: 10%

Analyte	Result	RL	MDL
Freon 12	ND	16	1.5
Chloromethane	ND	16	0.98
Vinyl Chloride	ND	16	0.81
Bromomethane	ND	16	1.3
Chloroethane	ND	16	1.3
Trichlorofluoromethane	ND	8.2	1.4
Acetone	3.2 J	33	1.3
Freon 113	ND	8.2	3.3
1,1-Dichloroethene	ND	8.2	0.53
Methylene Chloride	2.3 J	33	0.85
Carbon Disulfide	ND	8.2	0.88
MTBE	ND	8.2	1.2
trans-1,2-Dichloroethene	ND	8.2	0.94
Vinyl Acetate	ND	82	1.1
1,1-Dichloroethane	ND	8.2	1.3
2-Butanone	ND	16	1.7
cis-1,2-Dichloroethene	ND	8.2	1.3
2,2-Dichloropropane	ND	8.2	1.1
Chloroform	ND	8.2	0.89
Bromochloromethane	ND	8.2	1.1
1,1,1-Trichloroethane	ND	8.2	0.74
1,1-Dichloropropene	ND	8.2	1.0
Carbon Tetrachloride	ND	8.2	1.4
1,2-Dichloroethane	ND	8.2	1.1
Benzene	ND	8.2	1.2
Trichloroethene	ND	8.2	1.3
1,2-Dichloropropane	ND	8.2	1.5
Bromodichloromethane	ND	8.2	1.4
Dibromomethane	ND	8.2	1.1
4-Methyl-2-Pentanone	ND	16	1.0
cis-1,3-Dichloropropene	ND	8.2	1.1
Toluene	ND	8.2	1.1
trans-1,3-Dichloropropene	ND	8.2	1.1
1,1,2-Trichloroethane	ND	8.2	1.1
2-Hexanone	ND	16	1.3
1,3-Dichloropropane	ND	8.2	1.1
Tetrachloroethene	ND	8.2	1.2
Dibromochloromethane	ND	8.2	1.2
1,2-Dibromoethane	ND	8.2	1.2
Chlorobenzene	ND	8.2	1.1
1,1,1,2-Tetrachloroethane	ND	8.2	0.94
Ethylbenzene	ND	8.2	0.85
m,p-Xylenes	ND	8.2	1.7
o-Xylene	ND	8.2	0.95
Styrene	ND	8.2	1.2
Bromoform	ND	8.2	0.95
Isopropylbenzene	ND	8.2	0.87
1,1,2,2-Tetrachloroethane	ND	8.2	1.1
1,2,3-Trichloropropane	ND	8.2	1.1
Propylbenzene	ND	8.2	0.94

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

72.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX353[4.0]	Diln Fac:	1.471
Lab ID:	198818-005	Batch#:	131141
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	10/31/07

Analyte	Result	RL	MDL
Bromobenzene	ND	8.2	1.4
1,3,5-Trimethylbenzene	ND	8.2	1.1
2-Chlorotoluene	ND	8.2	1.1
4-Chlorotoluene	ND	8.2	1.5
tert-Butylbenzene	ND	8.2	1.1
1,2,4-Trimethylbenzene	ND	8.2	1.2
sec-Butylbenzene	ND	8.2	1.2
para-Isopropyl Toluene	ND	8.2	1.1
1,3-Dichlorobenzene	ND	8.2	1.0
1,4-Dichlorobenzene	ND	8.2	1.1
n-Butylbenzene	ND	8.2	0.93
1,2-Dichlorobenzene	ND	8.2	1.5
1,2-Dibromo-3-Chloropropane	ND	8.2	1.4
1,2,4-Trichlorobenzene	ND	8.2	1.4
Hexachlorobutadiene	ND	8.2	0.93
Naphthalene	ND	8.2	0.87
1,2,3-Trichlorobenzene	ND	8.2	0.99

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	106	79-136
Toluene-d8	102	80-120
Bromofluorobenzene	98	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX355[4.0]	Diln Fac:	25.00
Lab ID:	198818-006	Batch#:	131245
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/02/07

Moisture: 14%

Analyte	Result	RL	MDL
Freon 12	ND	290	22
Chloromethane	ND	290	16
Vinyl Chloride	ND	290	14
Bromomethane	ND	290	26
Chloroethane	ND	290	38
Trichlorofluoromethane	ND	150	11
Acetone	120 J	580	81
Freon 113	ND	150	18
1,1-Dichloroethene	ND	150	34
Methylene Chloride	140 J	580	56
Carbon Disulfide	ND	150	42
MTBE	ND	150	18
trans-1,2-Dichloroethene	ND	150	17
Vinyl Acetate	ND	1,500	16
1,1-Dichloroethane	ND	150	19
2-Butanone	ND	290	70
cis-1,2-Dichloroethene	ND	150	13
2,2-Dichloropropane	ND	150	14
Chloroform	ND	150	13
Bromochloromethane	ND	150	28
1,1,1-Trichloroethane	ND	150	11
1,1-Dichloropropene	ND	150	14
Carbon Tetrachloride	ND	150	16
1,2-Dichloroethane	ND	150	17
Benzene	ND	150	13
Trichloroethene	ND	150	12
1,2-Dichloropropane	ND	150	16
Bromodichloromethane	ND	150	17
Dibromomethane	ND	150	26
4-Methyl-2-Pentanone	ND	290	44
cis-1,3-Dichloropropene	ND	150	18
Toluene	ND	150	21
trans-1,3-Dichloropropene	ND	150	16
1,1,2-Trichloroethane	ND	150	28
2-Hexanone	ND	290	24
1,3-Dichloropropane	ND	150	11
Tetrachloroethene	ND	150	14
Dibromochloromethane	ND	150	13
1,2-Dibromoethane	ND	150	25
Chlorobenzene	ND	150	9.7
1,1,1,2-Tetrachloroethane	ND	150	9.2
Ethylbenzene	ND	150	12
m,p-Xylenes	ND	150	4.3
o-Xylene	ND	150	14
Styrene	ND	150	9.4
Bromoform	ND	150	11
Isopropylbenzene	31 J	150	6.5
1,1,2,2-Tetrachloroethane	ND	150	15
1,2,3-Trichloropropane	ND	150	13

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX355[4.0]	Diln Fac:	25.00
Lab ID:	198818-006	Batch#:	131245
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/02/07

Analyte	Result	RL	MDL
Propylbenzene	51 J	150	8.2
Bromobenzene	ND	150	6.4
1,3,5-Trimethylbenzene	ND	150	8.0
2-Chlorotoluene	ND	150	11
4-Chlorotoluene	ND	150	13
tert-Butylbenzene	ND	150	6.0
1,2,4-Trimethylbenzene	ND	150	7.4
sec-Butylbenzene	67 J	150	5.9
para-Isopropyl Toluene	18 J	150	9.4
1,3-Dichlorobenzene	ND	150	12
1,4-Dichlorobenzene	ND	150	11
n-Butylbenzene	98 J	150	10
1,2-Dichlorobenzene	ND	150	11
1,2-Dibromo-3-Chloropropane	ND	150	18
1,2,4-Trichlorobenzene	ND	150	13
Hexachlorobutadiene	ND	150	11
Naphthalene	ND	150	6.7
1,2,3-Trichlorobenzene	ND	150	11

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	88	79-136
Toluene-d8	111	80-120
Bromofluorobenzene	127 *	80-122
Trifluorotoluene (MeOH)	99	55-146

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX356[4.0]	Diln Fac:	1.563
Lab ID:	198818-007	Batch#:	131141
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	10/31/07

Moisture: 4%

Analyte	Result	RL	MDL
Freon 12	ND	16	1.5
Chloromethane	ND	16	0.97
Vinyl Chloride	ND	16	0.81
Bromomethane	ND	16	1.3
Chloroethane	ND	16	1.3
Trichlorofluoromethane	ND	8.1	1.4
Acetone	ND	33	1.3
Freon 113	ND	8.1	3.3
1,1-Dichloroethene	ND	8.1	0.53
Methylene Chloride	ND	33	0.85
Carbon Disulfide	ND	8.1	0.87
MTBE	ND	8.1	1.2
trans-1,2-Dichloroethene	ND	8.1	0.94
Vinyl Acetate	ND	81	1.1
1,1-Dichloroethane	ND	8.1	1.3
2-Butanone	ND	16	1.6
cis-1,2-Dichloroethene	ND	8.1	1.3
2,2-Dichloropropane	ND	8.1	1.1
Chloroform	ND	8.1	0.88
Bromochloromethane	ND	8.1	1.1
1,1,1-Trichloroethane	ND	8.1	0.73
1,1-Dichloropropene	ND	8.1	1.0
Carbon Tetrachloride	ND	8.1	1.4
1,2-Dichloroethane	ND	8.1	1.1
Benzene	ND	8.1	1.2
Trichloroethene	ND	8.1	1.3
1,2-Dichloropropane	ND	8.1	1.4
Bromodichloromethane	ND	8.1	1.4
Dibromomethane	ND	8.1	1.1
4-Methyl-2-Pentanone	ND	16	1.0
cis-1,3-Dichloropropene	ND	8.1	1.1
Toluene	ND	8.1	1.1
trans-1,3-Dichloropropene	ND	8.1	1.1
1,1,2-Trichloroethane	ND	8.1	1.1
2-Hexanone	ND	16	1.3
1,3-Dichloropropane	ND	8.1	1.0
Tetrachloroethene	ND	8.1	1.2
Dibromochloromethane	ND	8.1	1.1
1,2-Dibromoethane	ND	8.1	1.2
Chlorobenzene	ND	8.1	1.1
1,1,1,2-Tetrachloroethane	ND	8.1	0.94
Ethylbenzene	ND	8.1	0.85
m,p-Xylenes	ND	8.1	1.7
o-Xylene	ND	8.1	0.94
Styrene	ND	8.1	1.2
Bromoform	ND	8.1	0.94
Isopropylbenzene	ND	8.1	0.87
1,1,2,2-Tetrachloroethane	ND	8.1	1.1
1,2,3-Trichloropropane	ND	8.1	1.1
Propylbenzene	ND	8.1	0.94
Bromobenzene	ND	8.1	1.4

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

74.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX356[4.0]	Diln Fac:	1.563
Lab ID:	198818-007	Batch#:	131141
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	10/31/07

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	8.1	1.1
2-Chlorotoluene	ND	8.1	1.1
4-Chlorotoluene	ND	8.1	1.5
tert-Butylbenzene	ND	8.1	1.1
1,2,4-Trimethylbenzene	ND	8.1	1.2
sec-Butylbenzene	ND	8.1	1.2
para-Isopropyl Toluene	ND	8.1	1.1
1,3-Dichlorobenzene	ND	8.1	1.0
1,4-Dichlorobenzene	ND	8.1	1.1
n-Butylbenzene	ND	8.1	0.93
1,2-Dichlorobenzene	ND	8.1	1.5
1,2-Dibromo-3-Chloropropane	ND	8.1	1.4
1,2,4-Trichlorobenzene	ND	8.1	1.3
Hexachlorobutadiene	ND	8.1	0.92
Naphthalene	ND	8.1	0.87
1,2,3-Trichlorobenzene	ND	8.1	0.98

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	109	79-136
Toluene-d8	102	80-120
Bromofluorobenzene	98	80-122

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX354[4.0]	Diln Fac:	0.9615
Lab ID:	198818-010	Batch#:	131141
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	10/31/07

Moisture: 12%

Analyte	Result	RL	MDL
Freon 12	ND	11	1.0
Chloromethane	ND	11	0.65
Vinyl Chloride	ND	11	0.54
Bromomethane	ND	11	0.90
Chloroethane	ND	11	0.89
Trichlorofluoromethane	ND	5.5	0.95
Acetone	2.4 J	22	0.85
Freon 113	ND	5.5	2.2
1,1-Dichloroethene	ND	5.5	0.36
Methylene Chloride	1.5 J	22	0.57
Carbon Disulfide	ND	5.5	0.59
MTBE	ND	5.5	0.79
trans-1,2-Dichloroethene	ND	5.5	0.63
Vinyl Acetate	ND	55	0.75
1,1-Dichloroethane	ND	5.5	0.84
2-Butanone	ND	11	1.1
cis-1,2-Dichloroethene	ND	5.5	0.86
2,2-Dichloropropane	ND	5.5	0.75
Chloroform	ND	5.5	0.59
Bromochloromethane	ND	5.5	0.75
1,1,1-Trichloroethane	ND	5.5	0.49
1,1-Dichloropropene	ND	5.5	0.69
Carbon Tetrachloride	ND	5.5	0.96
1,2-Dichloroethane	ND	5.5	0.73
Benzene	ND	5.5	0.78
Trichloroethene	ND	5.5	0.87
1,2-Dichloropropane	ND	5.5	0.97
Bromodichloromethane	ND	5.5	0.93
Dibromomethane	ND	5.5	0.76
4-Methyl-2-Pentanone	ND	11	0.69
cis-1,3-Dichloropropene	ND	5.5	0.71
Toluene	ND	5.5	0.75
trans-1,3-Dichloropropene	ND	5.5	0.73
1,1,2-Trichloroethane	ND	5.5	0.75
2-Hexanone	ND	11	0.90
1,3-Dichloropropane	ND	5.5	0.70
Tetrachloroethene	ND	5.5	0.80
Dibromochloromethane	ND	5.5	0.77
1,2-Dibromoethane	ND	5.5	0.79
Chlorobenzene	ND	5.5	0.71
1,1,1,2-Tetrachloroethane	ND	5.5	0.63
Ethylbenzene	ND	5.5	0.57
m,p-Xylenes	ND	5.5	1.1
o-Xylene	ND	5.5	0.63
Styrene	ND	5.5	0.79
Bromoform	ND	5.5	0.63
Isopropylbenzene	ND	5.5	0.58
1,1,2,2-Tetrachloroethane	ND	5.5	0.75
1,2,3-Trichloropropane	ND	5.5	0.74
Propylbenzene	ND	5.5	0.63

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

75.0

: 00200

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX354[4.0]	Diln Fac:	0.9615
Lab ID:	198818-010	Batch#:	131141
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	10/31/07

Analyte	Result	RL	MDL
Bromobenzene	ND	5.5	0.96
1,3,5-Trimethylbenzene	ND	5.5	0.77
2-Chlorotoluene	ND	5.5	0.73
4-Chlorotoluene	ND	5.5	1.0
tert-Butylbenzene	ND	5.5	0.72
1,2,4-Trimethylbenzene	ND	5.5	0.80
sec-Butylbenzene	ND	5.5	0.83
para-Isopropyl Toluene	ND	5.5	0.74
1,3-Dichlorobenzene	ND	5.5	0.68
1,4-Dichlorobenzene	ND	5.5	0.75
n-Butylbenzene	ND	5.5	0.62
1,2-Dichlorobenzene	ND	5.5	0.99
1,2-Dibromo-3-Chloropropane	ND	5.5	0.96
1,2,4-Trichlorobenzene	ND	5.5	0.90
Hexachlorobutadiene	ND	5.5	0.62
Naphthalene	ND	5.5	0.58
1,2,3-Trichlorobenzene	ND	5.5	0.66

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	108	79-136
Toluene-d8	102	80-120
Bromofluorobenzene	104	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

75.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413045	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131141
Units:	ug/Kg	Analyzed:	10/31/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.93
Chloromethane	ND	10	0.60
Vinyl Chloride	ND	10	0.50
Bromomethane	ND	10	0.82
Chloroethane	ND	10	0.82
Trichlorofluoromethane	ND	5.0	0.87
Acetone	ND	20	0.78
Freon 113	ND	5.0	2.0
1,1-Dichloroethene	ND	5.0	0.33
Methylene Chloride	ND	20	0.52
Carbon Disulfide	ND	5.0	0.54
MTBE	ND	5.0	0.72
trans-1,2-Dichloroethene	ND	5.0	0.58
Vinyl Acetate	ND	50	0.68
1,1-Dichloroethane	ND	5.0	0.77
2-Butanone	ND	10	1.0
cis-1,2-Dichloroethene	ND	5.0	0.78
2,2-Dichloropropane	ND	5.0	0.69
Chloroform	ND	5.0	0.54
Bromochloromethane	ND	5.0	0.68
1,1,1-Trichloroethane	ND	5.0	0.45
1,1-Dichloropropene	ND	5.0	0.64
Carbon Tetrachloride	ND	5.0	0.88
1,2-Dichloroethane	ND	5.0	0.67
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.80
1,2-Dichloropropane	ND	5.0	0.89
Bromodichloromethane	ND	5.0	0.85
Dibromomethane	ND	5.0	0.70
4-Methyl-2-Pentanone	ND	10	0.63
cis-1,3-Dichloropropene	ND	5.0	0.65
Toluene	ND	5.0	0.69
trans-1,3-Dichloropropene	ND	5.0	0.66
1,1,2-Trichloroethane	ND	5.0	0.69
2-Hexanone	ND	10	0.82
1,3-Dichloropropane	ND	5.0	0.64
Tetrachloroethene	ND	5.0	0.73
Dibromochloromethane	ND	5.0	0.70
1,2-Dibromoethane	ND	5.0	0.72
Chlorobenzene	ND	5.0	0.65
1,1,1,2-Tetrachloroethane	ND	5.0	0.58
Ethylbenzene	ND	5.0	0.52
m,p-Xylenes	ND	5.0	1.0
o-Xylene	ND	5.0	0.58
Styrene	ND	5.0	0.72
Bromoform	ND	5.0	0.58
Isopropylbenzene	ND	5.0	0.53
1,1,2,2-Tetrachloroethane	ND	5.0	0.69
1,2,3-Trichloropropane	ND	5.0	0.68
Propylbenzene	ND	5.0	0.58
Bromobenzene	ND	5.0	0.88
1,3,5-Trimethylbenzene	ND	5.0	0.70
2-Chlorotoluene	ND	5.0	0.67

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413045	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131141
Units:	ug/Kg	Analyzed:	10/31/07

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	5.0	0.95
tert-Butylbenzene	ND	5.0	0.66
1,2,4-Trimethylbenzene	ND	5.0	0.74
sec-Butylbenzene	ND	5.0	0.76
para-Isopropyl Toluene	ND	5.0	0.68
1,3-Dichlorobenzene	ND	5.0	0.63
1,4-Dichlorobenzene	ND	5.0	0.69
n-Butylbenzene	ND	5.0	0.57
1,2-Dichlorobenzene	ND	5.0	0.90
1,2-Dibromo-3-Chloropropane	ND	5.0	0.88
1,2,4-Trichlorobenzene	ND	5.0	0.83
Hexachlorobutadiene	ND	5.0	0.57
Naphthalene	ND	5.0	0.53
1,2,3-Trichlorobenzene	ND	5.0	0.60

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	99	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	94	80-122

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413225	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131189
Units:	ug/Kg	Analyzed:	11/01/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.93
Chloromethane	ND	10	0.60
Vinyl Chloride	ND	10	0.50
Bromomethane	ND	10	0.82
Chloroethane	ND	10	0.82
Trichlorofluoromethane	ND	5.0	0.87
Acetone	1.8 J	20	0.78
Freon 113	ND	5.0	2.0
1,1-Dichloroethene	ND	5.0	0.33
Methylene Chloride	15 J	20	0.52
Carbon Disulfide	ND	5.0	0.54
MTBE	ND	5.0	0.72
trans-1,2-Dichloroethene	ND	5.0	0.58
Vinyl Acetate	ND	50	0.68
1,1-Dichloroethane	ND	5.0	0.77
2-Butanone	ND	10	1.0
cis-1,2-Dichloroethene	ND	5.0	0.78
2,2-Dichloropropane	ND	5.0	0.69
Chloroform	ND	5.0	0.54
Bromochloromethane	ND	5.0	0.68
1,1,1-Trichloroethane	ND	5.0	0.45
1,1-Dichloropropene	ND	5.0	0.64
Carbon Tetrachloride	ND	5.0	0.88
1,2-Dichloroethane	ND	5.0	0.67
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.80
1,2-Dichloropropane	ND	5.0	0.89
Bromodichloromethane	ND	5.0	0.85
Dibromomethane	ND	5.0	0.70
4-Methyl-2-Pentanone	ND	10	0.63
cis-1,3-Dichloropropene	ND	5.0	0.65
Toluene	ND	5.0	0.69
trans-1,3-Dichloropropene	ND	5.0	0.66
1,1,2-Trichloroethane	ND	5.0	0.69
2-Hexanone	ND	10	0.82
1,3-Dichloropropane	ND	5.0	0.64
Tetrachloroethene	ND	5.0	0.73
Dibromochloromethane	ND	5.0	0.70
1,2-Dibromoethane	ND	5.0	0.72
Chlorobenzene	ND	5.0	0.65
1,1,1,2-Tetrachloroethane	ND	5.0	0.58
Ethylbenzene	ND	5.0	0.52
m,p-Xylenes	ND	5.0	1.0
o-Xylene	ND	5.0	0.58
Styrene	ND	5.0	0.72
Bromoform	ND	5.0	0.58
Isopropylbenzene	ND	5.0	0.53
1,1,2,2-Tetrachloroethane	ND	5.0	0.69
1,2,3-Trichloropropane	ND	5.0	0.68
Propylbenzene	ND	5.0	0.58
Bromobenzene	ND	5.0	0.88
1,3,5-Trimethylbenzene	ND	5.0	0.70

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

77.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413225	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131189
Units:	ug/Kg	Analyzed:	11/01/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.67
4-Chlorotoluene	ND	5.0	0.95
tert-Butylbenzene	ND	5.0	0.66
1,2,4-Trimethylbenzene	ND	5.0	0.74
sec-Butylbenzene	ND	5.0	0.76
para-Isopropyl Toluene	ND	5.0	0.68
1,3-Dichlorobenzene	ND	5.0	0.63
1,4-Dichlorobenzene	ND	5.0	0.69
n-Butylbenzene	ND	5.0	0.57
1,2-Dichlorobenzene	ND	5.0	0.90
1,2-Dibromo-3-Chloropropane	ND	5.0	0.88
1,2,4-Trichlorobenzene	ND	5.0	0.83
Hexachlorobutadiene	ND	5.0	0.57
Naphthalene	ND	5.0	0.53
1,2,3-Trichlorobenzene	ND	5.0	0.60

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	102	79-136
Toluene-d8	108	80-120
Bromofluorobenzene	88	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

77.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413263	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131189
Units:	ug/Kg	Analyzed:	11/01/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.93
Chloromethane	ND	10	0.60
Vinyl Chloride	ND	10	0.50
Bromomethane	ND	10	0.82
Chloroethane	ND	10	0.82
Trichlorofluoromethane	ND	5.0	0.87
Acetone	ND	20	0.78
Freon 113	ND	5.0	2.0
1,1-Dichloroethene	ND	5.0	0.33
Methylene Chloride	0.64 J	20	0.52
Carbon Disulfide	ND	5.0	0.54
MTBE	ND	5.0	0.72
trans-1,2-Dichloroethene	ND	5.0	0.58
Vinyl Acetate	ND	50	0.68
1,1-Dichloroethane	ND	5.0	0.77
2-Butanone	ND	10	1.0
cis-1,2-Dichloroethene	ND	5.0	0.78
2,2-Dichloropropane	ND	5.0	0.69
Chloroform	ND	5.0	0.54
Bromochloromethane	ND	5.0	0.68
1,1,1-Trichloroethane	ND	5.0	0.45
1,1-Dichloropropene	ND	5.0	0.64
Carbon Tetrachloride	ND	5.0	0.88
1,2-Dichloroethane	ND	5.0	0.67
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.80
1,2-Dichloropropane	ND	5.0	0.89
Bromodichloromethane	ND	5.0	0.85
Dibromomethane	ND	5.0	0.70
4-Methyl-2-Pentanone	ND	10	0.63
cis-1,3-Dichloropropene	ND	5.0	0.65
Toluene	ND	5.0	0.69
trans-1,3-Dichloropropene	ND	5.0	0.66
1,1,2-Trichloroethane	ND	5.0	0.69
2-Hexanone	ND	10	0.82
1,3-Dichloropropane	ND	5.0	0.64
Tetrachloroethene	ND	5.0	0.73
Dibromochloromethane	ND	5.0	0.70
1,2-Dibromoethane	ND	5.0	0.72
Chlorobenzene	ND	5.0	0.65
1,1,1,2-Tetrachloroethane	ND	5.0	0.58
Ethylbenzene	ND	5.0	0.52
m,p-Xylenes	ND	5.0	1.0
o-Xylene	ND	5.0	0.58
Styrene	ND	5.0	0.72
Bromoform	ND	5.0	0.58
Isopropylbenzene	ND	5.0	0.53
1,1,2,2-Tetrachloroethane	ND	5.0	0.69
1,2,3-Trichloropropane	ND	5.0	0.68
Propylbenzene	ND	5.0	0.58
Bromobenzene	ND	5.0	0.88
1,3,5-Trimethylbenzene	ND	5.0	0.70

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

78.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413263	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131189
Units:	ug/Kg	Analyzed:	11/01/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.67
4-Chlorotoluene	ND	5.0	0.95
tert-Butylbenzene	ND	5.0	0.66
1,2,4-Trimethylbenzene	ND	5.0	0.74
sec-Butylbenzene	ND	5.0	0.76
para-Isopropyl Toluene	ND	5.0	0.68
1,3-Dichlorobenzene	ND	5.0	0.63
1,4-Dichlorobenzene	ND	5.0	0.69
n-Butylbenzene	ND	5.0	0.57
1,2-Dichlorobenzene	ND	5.0	0.90
1,2-Dibromo-3-Chloropropane	ND	5.0	0.88
1,2,4-Trichlorobenzene	ND	5.0	0.83
Hexachlorobutadiene	ND	5.0	0.57
Naphthalene	ND	5.0	0.53
1,2,3-Trichlorobenzene	ND	5.0	0.60

Surrogate	%REC	Limits
Dibromofluoromethane	88	80-124
1,2-Dichloroethane-d4	101	79-136
Toluene-d8	105	80-120
Bromofluorobenzene	88	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413434	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131245
Units:	ug/Kg	Analyzed:	11/02/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.54
Chloromethane	ND	10	0.63
Vinyl Chloride	ND	10	0.56
Bromomethane	ND	10	0.44
Chloroethane	ND	10	0.46
Trichlorofluoromethane	ND	5.0	0.51
Acetone	1.8 J	20	0.92
Freon 113	ND	5.0	0.61
1,1-Dichloroethene	ND	5.0	0.44
Methylene Chloride	1.2 J	20	0.41
Carbon Disulfide	ND	5.0	0.51
MTBE	ND	5.0	0.45
trans-1,2-Dichloroethene	ND	5.0	0.41
Vinyl Acetate	ND	50	0.36
1,1-Dichloroethane	ND	5.0	0.38
2-Butanone	ND	10	0.50
cis-1,2-Dichloroethene	ND	5.0	0.40
2,2-Dichloropropane	ND	5.0	0.38
Chloroform	ND	5.0	0.37
Bromochloromethane	ND	5.0	0.24
1,1,1-Trichloroethane	ND	5.0	0.34
1,1-Dichloropropene	ND	5.0	0.36
Carbon Tetrachloride	ND	5.0	0.41
1,2-Dichloroethane	ND	5.0	0.37
Benzene	ND	5.0	0.30
Trichloroethene	ND	5.0	0.43
1,2-Dichloropropane	ND	5.0	0.40
Bromodichloromethane	ND	5.0	0.40
Dibromomethane	ND	5.0	0.35
4-Methyl-2-Pentanone	ND	10	0.25
cis-1,3-Dichloropropene	ND	5.0	0.32
Toluene	ND	5.0	0.41
trans-1,3-Dichloropropene	ND	5.0	0.26
1,1,2-Trichloroethane	ND	5.0	0.40
2-Hexanone	ND	10	0.43
1,3-Dichloropropane	ND	5.0	0.29
Tetrachloroethene	ND	5.0	0.50
Dibromochloromethane	ND	5.0	0.31
1,2-Dibromoethane	ND	5.0	0.23
Chlorobenzene	ND	5.0	0.28
1,1,1,2-Tetrachloroethane	ND	5.0	0.36
Ethylbenzene	ND	5.0	0.40
m,p-Xylenes	ND	5.0	0.93
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.47
Bromoform	ND	5.0	0.20
Isopropylbenzene	ND	5.0	0.60
1,1,2,2-Tetrachloroethane	ND	5.0	0.27
1,2,3-Trichloropropane	ND	5.0	0.44
Propylbenzene	ND	5.0	0.65
Bromobenzene	ND	5.0	0.41
1,3,5-Trimethylbenzene	ND	5.0	0.67

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413434	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131245
Units:	ug/Kg	Analyzed:	11/02/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.57
4-Chlorotoluene	ND	5.0	0.33
tert-Butylbenzene	ND	5.0	0.79
1,2,4-Trimethylbenzene	ND	5.0	0.53
sec-Butylbenzene	ND	5.0	0.90
para-Isopropyl Toluene	ND	5.0	0.78
1,3-Dichlorobenzene	ND	5.0	0.55
1,4-Dichlorobenzene	ND	5.0	0.45
n-Butylbenzene	ND	5.0	0.81
1,2-Dichlorobenzene	ND	5.0	0.37
1,2-Dibromo-3-Chloropropane	ND	5.0	0.61
1,2,4-Trichlorobenzene	ND	5.0	0.62
Hexachlorobutadiene	ND	5.0	0.89
Naphthalene	ND	5.0	0.48
1,2,3-Trichlorobenzene	ND	5.0	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	90	79-136
Toluene-d8	102	80-120
Bromofluorobenzene	113	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413653	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131304
Units:	ug/Kg	Analyzed:	11/05/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.54
Chloromethane	ND	10	0.63
Vinyl Chloride	ND	10	0.56
Bromomethane	ND	10	0.44
Chloroethane	ND	10	0.46
Trichlorofluoromethane	ND	5.0	0.51
Acetone	ND	20	0.92
Freon 113	ND	5.0	0.61
1,1-Dichloroethene	ND	5.0	0.44
Methylene Chloride	ND	20	0.41
Carbon Disulfide	ND	5.0	0.51
MTBE	ND	5.0	0.45
trans-1,2-Dichloroethene	ND	5.0	0.41
Vinyl Acetate	ND	50	0.36
1,1-Dichloroethane	ND	5.0	0.38
2-Butanone	ND	10	0.50
cis-1,2-Dichloroethene	ND	5.0	0.40
2,2-Dichloropropane	ND	5.0	0.38
Chloroform	ND	5.0	0.37
Bromochloromethane	ND	5.0	0.24
1,1,1-Trichloroethane	ND	5.0	0.34
1,1-Dichloropropene	ND	5.0	0.36
Carbon Tetrachloride	ND	5.0	0.41
1,2-Dichloroethane	ND	5.0	0.37
Benzene	ND	5.0	0.30
Trichloroethene	ND	5.0	0.43
1,2-Dichloropropane	ND	5.0	0.40
Bromodichloromethane	ND	5.0	0.40
Dibromomethane	ND	5.0	0.35
4-Methyl-2-Pentanone	ND	10	0.25
cis-1,3-Dichloropropene	ND	5.0	0.32
Toluene	ND	5.0	0.41
trans-1,3-Dichloropropene	ND	5.0	0.26
1,1,2-Trichloroethane	ND	5.0	0.40
2-Hexanone	ND	10	0.43
1,3-Dichloropropane	ND	5.0	0.29
Tetrachloroethene	ND	5.0	0.50
Dibromochloromethane	ND	5.0	0.31
1,2-Dibromoethane	ND	5.0	0.23
Chlorobenzene	ND	5.0	0.28
1,1,1,2-Tetrachloroethane	ND	5.0	0.36
Ethylbenzene	ND	5.0	0.40
m,p-Xylenes	ND	5.0	0.93
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.47
Bromoform	ND	5.0	0.20
Isopropylbenzene	ND	5.0	0.60
1,1,2,2-Tetrachloroethane	ND	5.0	0.27
1,2,3-Trichloropropane	ND	5.0	0.44
Propylbenzene	ND	5.0	0.65
Bromobenzene	ND	5.0	0.41
1,3,5-Trimethylbenzene	ND	5.0	0.67
2-Chlorotoluene	ND	5.0	0.57

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

80.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413653	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131304
Units:	ug/Kg	Analyzed:	11/05/07

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	5.0	0.33
tert-Butylbenzene	ND	5.0	0.79
1,2,4-Trimethylbenzene	ND	5.0	0.53
sec-Butylbenzene	ND	5.0	0.90
para-Isopropyl Toluene	ND	5.0	0.78
1,3-Dichlorobenzene	ND	5.0	0.55
1,4-Dichlorobenzene	ND	5.0	0.45
n-Butylbenzene	ND	5.0	0.81
1,2-Dichlorobenzene	ND	5.0	0.37
1,2-Dibromo-3-Chloropropane	ND	5.0	0.61
1,2,4-Trichlorobenzene	ND	5.0	0.62
Hexachlorobutadiene	ND	5.0	0.89
Naphthalene	ND	5.0	0.48
1,2,3-Trichlorobenzene	ND	5.0	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	89	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	111	80-122

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

80.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413866	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131351
Units:	ug/Kg	Analyzed:	11/06/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.93
Chloromethane	ND	10	0.60
Vinyl Chloride	ND	10	0.50
Bromomethane	ND	10	0.82
Chloroethane	ND	10	0.82
Trichlorofluoromethane	ND	5.0	0.87
Acetone	1.1 J	20	0.78
Freon 113	ND	5.0	2.0
1,1-Dichloroethene	ND	5.0	0.33
Methylene Chloride	5.5 J	20	0.52
Carbon Disulfide	ND	5.0	0.54
MTBE	ND	5.0	0.72
trans-1,2-Dichloroethene	ND	5.0	0.58
Vinyl Acetate	ND	50	0.68
1,1-Dichloroethane	ND	5.0	0.77
2-Butanone	ND	10	1.0
cis-1,2-Dichloroethene	ND	5.0	0.78
2,2-Dichloropropane	ND	5.0	0.69
Chloroform	ND	5.0	0.54
Bromochloromethane	ND	5.0	0.68
1,1,1-Trichloroethane	ND	5.0	0.45
1,1-Dichloropropene	ND	5.0	0.64
Carbon Tetrachloride	ND	5.0	0.88
1,2-Dichloroethane	ND	5.0	0.67
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.80
1,2-Dichloropropane	ND	5.0	0.89
Bromodichloromethane	ND	5.0	0.85
Dibromomethane	ND	5.0	0.70
4-Methyl-2-Pentanone	ND	10	0.63
cis-1,3-Dichloropropene	ND	5.0	0.65
Toluene	ND	5.0	0.69
trans-1,3-Dichloropropene	ND	5.0	0.66
1,1,2-Trichloroethane	ND	5.0	0.69
2-Hexanone	ND	10	0.82
1,3-Dichloropropane	ND	5.0	0.64
Tetrachloroethene	ND	5.0	0.73
Dibromochloromethane	ND	5.0	0.70
1,2-Dibromoethane	ND	5.0	0.72
Chlorobenzene	ND	5.0	0.65
1,1,1,2-Tetrachloroethane	ND	5.0	0.58
Ethylbenzene	ND	5.0	0.52
m,p-Xylenes	ND	5.0	1.0
o-Xylene	ND	5.0	0.58
Styrene	ND	5.0	0.72
Bromoform	ND	5.0	0.58
Isopropylbenzene	ND	5.0	0.53
1,1,2,2-Tetrachloroethane	ND	5.0	0.69
1,2,3-Trichloropropane	ND	5.0	0.68
Propylbenzene	ND	5.0	0.58
Bromobenzene	ND	5.0	0.88
1,3,5-Trimethylbenzene	ND	5.0	0.70

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

81.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413866	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131351
Units:	ug/Kg	Analyzed:	11/06/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.67
4-Chlorotoluene	ND	5.0	0.95
tert-Butylbenzene	ND	5.0	0.66
1,2,4-Trimethylbenzene	ND	5.0	0.74
sec-Butylbenzene	ND	5.0	0.76
para-Isopropyl Toluene	ND	5.0	0.68
1,3-Dichlorobenzene	ND	5.0	0.63
1,4-Dichlorobenzene	ND	5.0	0.69
n-Butylbenzene	ND	5.0	0.57
1,2-Dichlorobenzene	ND	5.0	0.90
1,2-Dibromo-3-Chloropropane	ND	5.0	0.88
1,2,4-Trichlorobenzene	ND	5.0	0.83
Hexachlorobutadiene	ND	5.0	0.57
Naphthalene	ND	5.0	0.53
1,2,3-Trichlorobenzene	ND	5.0	0.60

Surrogate	%REC	Limits
Dibromofluoromethane	86	80-124
1,2-Dichloroethane-d4	96	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	88	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

81.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC413044	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131141
Units:	ug/Kg	Analyzed:	10/31/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.58	106	74-131
Benzene	25.00	26.90	108	77-121
Trichloroethene	25.00	27.98	112	77-121
Toluene	25.00	26.77	107	79-122
Chlorobenzene	25.00	25.65	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	100	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	92	80-122

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC413224	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131189
Units:	ug/Kg	Analyzed:	11/01/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	21.94	88	74-131
Benzene	25.00	24.39	98	77-121
Trichloroethene	25.00	25.59	102	77-121
Toluene	25.00	26.55	106	79-122
Chlorobenzene	25.00	24.88	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	85	80-124
1,2-Dichloroethane-d4	97	79-136
Toluene-d8	108	80-120
Bromofluorobenzene	81	80-122

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	131245
Basis:	as received	Analyzed:	11/02/07

Type: BS Lab ID: QC413435

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	30.01	120	74-131
Benzene	25.00	26.63	107	77-121
Trichloroethene	25.00	25.70	103	77-121
Toluene	25.00	27.21	109	79-122
Chlorobenzene	25.00	24.60	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	84	79-136
Toluene-d8	105	80-120
Bromofluorobenzene	108	80-122

Type: BSD Lab ID: QC413436

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	30.86	123	74-131	3	20
Benzene	25.00	27.11	108	77-121	2	20
Trichloroethene	25.00	26.22	105	77-121	2	20
Toluene	25.00	27.77	111	79-122	2	20
Chlorobenzene	25.00	25.02	100	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	85	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	108	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC413654	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131304
Units:	ug/Kg	Analyzed:	11/05/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.47	114	74-131
Benzene	25.00	27.31	109	77-121
Trichloroethene	25.00	27.31	109	77-121
Toluene	25.00	27.42	110	79-122
Chlorobenzene	25.00	25.75	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	86	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	110	80-122

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	131351
Basis:	as received	Analyzed:	11/06/07

Type: BS Lab ID: QC413864

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.67	95	74-131
Benzene	25.00	24.98	100	77-121
Trichloroethene	25.00	26.27	105	77-121
Toluene	25.00	26.92	108	79-122
Chlorobenzene	25.00	25.61	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	87	80-124
1,2-Dichloroethane-d4	99	79-136
Toluene-d8	108	80-120
Bromofluorobenzene	82	80-122

Type: BSD Lab ID: QC413865

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	23.49	94	74-131	1	20
Benzene	25.00	24.82	99	77-121	1	20
Trichloroethene	25.00	26.84	107	77-121	2	20
Toluene	25.00	25.74	103	79-122	4	20
Chlorobenzene	25.00	25.99	104	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	88	80-124
1,2-Dichloroethane-d4	100	79-136
Toluene-d8	108	80-120
Bromofluorobenzene	88	80-122

RPD= Relative Percent Difference

90.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	131141
MSS Lab ID:	198764-003	Sampled:	10/25/07
Matrix:	Soil	Received:	10/26/07
Units:	ug/Kg	Analyzed:	10/31/07
Basis:	dry		

Type: MS
Lab ID: QC413046
Moisture: 7%
Diln Fac: 0.8772

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.3239	47.16	40.64	86	61-145
Benzene	<0.7096	47.16	42.79	91	57-123
Trichloroethene	1.285	47.16	51.22	106	52-141
Toluene	<0.6825	47.16	43.27	92	53-126
Chlorobenzene	<0.6486	47.16	38.34	81	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	108	79-136
Toluene-d8	107	80-120
Bromofluorobenzene	94	80-122

Type: MSD
Lab ID: QC413047
Moisture: 7%
Diln Fac: 0.9091

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.88	42.92	88	61-145	2	26
Benzene	48.88	44.59	91	57-123	1	25
Trichloroethene	48.88	53.98	108	52-141	2	26
Toluene	48.88	46.23	95	53-126	3	27
Chlorobenzene	48.88	40.94	84	49-121	3	27

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	106	79-136
Toluene-d8	109	80-120
Bromofluorobenzene	92	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9615
MSS Lab ID:	198797-005	Batch#:	131189
Matrix:	Soil	Sampled:	10/22/07
Units:	ug/Kg	Received:	10/22/07
Basis:	as received		

Type: MS Analyzed: 11/01/07
Lab ID: QC413239

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.3128	48.08	47.76	99	61-145
Benzene	<0.6853	48.08	42.43	88	57-123
Trichloroethene	812.4 >LR	48.08	793.7 >LR	-39 NM	52-141
Toluene	<0.6591	48.08	43.31	90	53-126
Chlorobenzene	<0.6264	48.08	40.93	85	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	104	79-136
Toluene-d8	103	80-120
Bromofluorobenzene	94	80-122

Type: MSD Analyzed: 11/02/07
Lab ID: QC413240

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.08	51.44	107	61-145	7	26
Benzene	48.08	42.89	89	57-123	1	25
Trichloroethene	48.08	806.3 >LR	-13 NM	52-141	NC	26
Toluene	48.08	44.44	92	53-126	3	27
Chlorobenzene	48.08	41.96	87	49-121	2	27

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	101	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	90	80-122

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

85.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX352[4.0]	Diln Fac:	500.0
MSS Lab ID:	198818-004	Batch#:	131245
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/02/07

Type: MS
Lab ID: QC413552

Moisture: 17%

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<711.0	30,120	40,500	134	61-145
Benzene	<264.8	30,120	31,470	104	57-123
Trichloroethene	<245.6	30,120	33,220	110	52-141
Toluene	<440.8	30,120	34,330	114	53-126
Chlorobenzene	<200.5	30,120	29,870	99	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	80	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	132 *	80-122
Trifluorotoluene (MeOH)	DO	55-146

Type: MSD
Lab ID: QC413553

Moisture: 17%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	30,120	43,510	144	61-145	7	26
Benzene	30,120	29,950	99	57-123	5	25
Trichloroethene	30,120	31,790	106	52-141	4	26
Toluene	30,120	31,820	106	53-126	8	27
Chlorobenzene	30,120	28,320	94	49-121	5	27

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	83	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	137 *	80-122
Trifluorotoluene (MeOH)	DO	55-146

*= Value outside of QC limits; see narrative
DO= Diluted Out
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	198889-001	Batch#:	131304
Matrix:	Miscell.	Sampled:	10/31/07
Units:	ug/Kg	Received:	11/01/07
Basis:	as received	Analyzed:	11/05/07

Type: MS Lab ID: QC413789

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4372	50.00	55.55	111	61-145
Benzene	<0.3048	50.00	44.65	89	57-123
Trichloroethene	<0.4304	50.00	43.46	87	52-141
Toluene	1.128	50.00	42.23	82	53-126
Chlorobenzene	<0.2792	50.00	36.86	74	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	86	79-136
Toluene-d8	97	80-120
Bromofluorobenzene	114	80-122

Type: MSD Lab ID: QC413790

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	51.87	104	61-145	7	26
Benzene	50.00	37.24	74	57-123	18	25
Trichloroethene	50.00	37.02	74	52-141	16	26
Toluene	50.00	35.88	70	53-126	16	27
Chlorobenzene	50.00	31.51	63	49-121	16	27

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	83	79-136
Toluene-d8	97	80-120
Bromofluorobenzene	115	80-122

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457437048008 File : fju08 Time : 30-OCT-2007 15:16

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	52320	21.50	
75	30% - 60% of mass 95	110757	45.51	
95		243349		
96	5% - 9% of mass 95	15946	6.55	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	193258	79.42	
175	5% - 9% of mass 174	13225	6.84	
176	> 95% and < 101% of mass 174	190720	98.69	
177	5% - 9% of mass 176	12349	6.47	

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

457437048008

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457438226002 File : fjv02 Time : 31-OCT-2007 08:23

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	86557	20.96	
75	30% - 60% of mass 95	182037	44.09	
95		412885		
96	5% - 9% of mass 95	26792	6.49	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	324586	78.61	
175	5% - 9% of mass 174	23226	7.16	
176	> 95% and < 101% of mass 174	313770	96.67	
177	5% - 9% of mass 176	20410	6.50	

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 11/01/07

457438226002

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457439660004 File : fk104 Time : 01-NOV-2007 09:15

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	31395	20.87	
75	30% - 60% of mass 95	67725	45.03	
95		150403		
96	5% - 9% of mass 95	10211	6.79	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	123885	82.37	
175	5% - 9% of mass 174	8575	6.92	
176	> 95% and < 101% of mass 174	118666	95.79	
177	5% - 9% of mass 176	7379	6.22	

Analyst: BO Date: 11/01/07 Reviewer: LW Date: 11/02/07

457439660004

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457439660011 File : fk111 Time : 01-NOV-2007 13:11

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	79893	19.73	
75	30% - 60% of mass 95	174869	43.19	
95		404842		
96	5% - 9% of mass 95	27464	6.78	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	347882	85.93	
175	5% - 9% of mass 174	25728	7.40	
176	> 95% and < 101% of mass 174	339733	97.66	
177	5% - 9% of mass 176	21784	6.41	

Analyst: BO Date: 11/02/07 Reviewer: LW Date: 11/02/07

457439660011

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457446854004 File : fk604 Time : 06-NOV-2007 09:11

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	19440	18.37	
75	30% - 60% of mass 95	44584	42.14	
95		105800		
96	5% - 9% of mass 95	6299	5.95	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	86728	81.97	
175	5% - 9% of mass 174	5777	6.66	
176	> 95% and < 101% of mass 174	84824	97.80	
177	5% - 9% of mass 176	5716	6.74	

Analyst: BO Date: 11/06/07 Reviewer: LW Date: 11/06/07

457446854004

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887436786010 File : lju10 Time : 30-OCT-2007 15:38

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12308	19.39	
75	30% - 60% of mass 95	32098	50.58	
95		63464		
96	5% - 9% of mass 95	4233	6.67	
173	< 2% of mass 174	522	1.05	
174	> 50% and < 100% of mass 95	49762	78.41	
175	5% - 9% of mass 174	3542	7.12	
176	> 95% and < 101% of mass 174	48338	97.14	
177	5% - 9% of mass 176	3224	6.67	

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

887436786010

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887441238001 File : lk201 Time : 02-NOV-2007 09:58

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	10651	16.83	
75	30% - 60% of mass 95	28586	45.17	
95		63285		
96	5% - 9% of mass 95	4341	6.86	
173	< 2% of mass 174	426	0.87	
174	> 50% and < 100% of mass 95	49160	77.68	
175	5% - 9% of mass 174	3916	7.97	
176	> 95% and < 101% of mass 174	47890	97.42	
177	5% - 9% of mass 176	3232	6.75	

Analyst: WNH Date: 11/02/07 Reviewer: LW Date: 11/02/07

887441238001

CURTIS & TOMPKINS BFB TUNE FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887445431006 File : lk506 Time : 05-NOV-2007 12:01

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	10039	16.12	
75	30% - 60% of mass 95	27952	44.88	
95		62288		
96	5% - 9% of mass 95	4495	7.22	
173	< 2% of mass 174	371	0.75	
174	> 50% and < 100% of mass 95	49506	79.48	
175	5% - 9% of mass 174	3456	6.98	
176	> 95% and < 101% of mass 174	47632	96.21	
177	5% - 9% of mass 176	3243	6.81	

Analyst: WNH Date: 11/05/07 Reviewer: LW Date: 11/06/07

887445431006

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 MSVOA Soil: EPA 8260B

Inst : MSVOA06
Calnum : 457437048001
Units : ug/L

Name : 826GOX6S
Date : 30-OCT-2007 17:19
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fju12	457437048012	2.5PPB	30-OCT-2007 17:19	S7424 (20000X), S7425 (20000X), S7444 (1000X)
L2	fju13	457437048013	5PPB	30-OCT-2007 17:54	S7424 (10000X), S7425 (10000X), S7444 (1000X)
L3	fju14	457437048014	10PPB	30-OCT-2007 18:30	S7424 (5000X), S7425 (5000X), S7444 (1000X)
L4	fju15	457437048015	20PPB	30-OCT-2007 19:05	S7417 (25000X), S7531 (25000X), S7444 (1000X)
L5	fju16	457437048016	50PPB	30-OCT-2007 19:40	S7417 (10000X), S7531 (10000X), S7444 (1000X)
L6	fju17	457437048017	60PPB	30-OCT-2007 20:15	S7417 (8333X), S7531 (8333X), S7444 (1000X)
L7	fju18	457437048018	75PPB	30-OCT-2007 20:50	S7417 (6667X), S7531 (6667X), S7444 (1000X)
L8	fju19	457437048019	100PPB	30-OCT-2007 21:24	S7417 (5000X), S7531 (5000X), S7444 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.4830	0.4763	0.6396	0.6148	0.6037	0.5614	0.5948	AVRG		1.76164		0.5677	11	15	0.05	0.99	
Chloromethane		1.0497m	1.0167	1.1664	1.1042	1.1075	1.0371	1.0601	AVRG		0.92819		1.0774	5	15	0.10	0.99	
Vinyl Chloride	0.8684	0.8172m	0.8472	0.9767	0.8846	0.8936	0.8188	0.8468	AVRG		1.15052		0.8692	6	15	0.05	0.99	
Bromomethane		0.3422	0.3644m	0.4110	0.4119	0.3909	0.3733	0.3636	AVRG		2.63430		0.3796	7	15	0.05	0.99	
Chloroethane		0.4065	0.4302	0.4576	0.4553	0.4270	0.4021	0.3960	AVRG		2.35323		0.4249	6	15	0.05	0.99	
Trichlorofluoromethane		0.8152	0.8533	0.8814	0.8326	0.7977	0.7540	0.7788	AVRG		1.22528		0.8161	5	15	0.05	0.99	
Acetone		0.5303	0.5540	0.5463	0.5070	0.5053	0.4567	0.4542	AVRG		1.96967		0.5077	8	15	0.05	0.99	
Freon 113		0.7002	0.7460	0.6944	0.7148	0.6754	0.6175	0.6634	AVRG		1.45479		0.6874	6	15	0.05	0.99	
1,1-Dichloroethene		0.6157	0.5977	0.6015	0.5950	0.5703	0.5404	0.5637	AVRG		1.71387		0.5835	4	15	0.05	0.99	
Methylene Chloride		0.8883	0.8954	0.9431	0.9103	0.8865	0.8255	0.8518	AVRG		1.12887		0.8858	4	15	0.05	0.99	
Carbon Disulfide		2.6591	2.6660	2.7167	2.6304	2.5601	2.4176	2.5177	AVRG		0.38530		2.5954	4	15	0.05	0.99	
MTBE		2.3086	2.3206	2.3917	2.3601	2.2913	2.1479	2.1355	AVRG		0.43872		2.2794	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.7472	0.7390	0.7644	0.7262	0.7191	0.6728	0.6873	AVRG		1.38450		0.7223	5	15	0.05	0.99	
Vinyl Acetate			1.5845	2.2139	2.2794	2.2786	2.1623	2.2310	AVRG		0.47060		2.1249	13	15	0.05	0.99	
1,1-Dichloroethane		1.5711	1.5994	1.5767	1.5487	1.5144	1.3821	1.4856	AVRG		0.65555		1.5254	5	15	0.10	0.99	
2-Butanone		0.7169	0.7479	0.7739	0.7934	0.8115	0.7333	0.7416	AVRG		1.31616		0.7598	5	15	0.05	0.99	
2,2-Dichloropropane		0.7163	0.7552	0.7746	0.7941	0.7886	0.7263	0.7596	AVRG		1.31709		0.7592	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.8293	0.8436	0.8401	0.8352	0.8182	0.7721	0.7864	AVRG		1.22275		0.8178	3	15	0.05	0.99	
Chloroform		1.2733	1.3685	1.3765	1.3489	1.3364	1.2465	1.2646	AVRG		0.75965		1.3164	4	15	0.05	0.99	
Bromochloromethane		0.4063	0.4316	0.4550	0.4413	0.4406	0.4016	0.4129	AVRG		2.34167		0.4270	5	15	0.05	0.99	
1,1,1-Trichloroethane		0.8343	0.8667	0.8453	0.8387	0.8241	0.7683	0.7810	AVRG		1.21562		0.8226	4	15	0.05	0.99	
1,1-Dichloropropene		0.5708	0.5720	0.5553	0.5629	0.5504	0.5199	0.5531	AVRG		1.80211		0.5549	3	15	0.05	0.99	
Carbon Tetrachloride		0.3972	0.4218	0.4075	0.4125	0.3799	0.3636	0.3800	AVRG		2.53386		0.3947	5	15	0.05	0.99	
1,2-Dichloroethane		0.6256	0.6198	0.6291	0.6110	0.5948	0.5729	0.5736	AVRG		1.65605		0.6038	4	15	0.05	0.99	
Benzene		1.7882	1.7616	1.8074	1.7299	1.6851	1.6329	1.6795	AVRG		0.57925		1.7264	4	15	0.05	0.99	

0021 · 0021

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.3990	0.4115	0.4096	0.4132	0.3968	0.3850	0.3947	AVRG		2.49122		0.4014	3	15	0.05	0.99	
1,2-Dichloropropane		0.5647	0.5474	0.5677	0.5523	0.5456	0.5291	0.5437	AVRG		1.81789		0.5501	2	15	0.05	0.99	
Bromodichloromethane		0.5672	0.6019	0.6099	0.5940	0.5904	0.5748	0.5763	AVRG		1.70127		0.5878	3	15	0.05	0.99	
Dibromomethane		0.3032	0.3240	0.3399	0.3399	0.3277	0.3199	0.3185	AVRG		3.07943		0.3247	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.7375	0.7813	0.8383	0.8693	0.8720	0.8145	0.8274	AVRG		1.21944		0.8201	6	15	0.05	0.99	
cis-1,3-Dichloropropene		0.7252	0.7271	0.7560	0.7614	0.7459	0.7062	0.7173	AVRG		1.36212		0.7342	3	15	0.05	0.99	
Toluene		0.9248	0.9871	0.9806	0.9824	0.9295	0.9023	0.8973	AVRG		1.05995		0.9434	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6209	0.6049	0.6451	0.6635	0.6385	0.6239	0.6202	AVRG		1.58477		0.6310	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.2430	0.2460	0.2533	0.2531	0.2435	0.2316	0.2327	AVRG		4.10962		0.2433	4	15	0.05	0.99	
2-Hexanone		0.6570	0.6903	0.7262	0.7392	0.7704	0.7133	0.7105	AVRG		1.39809		0.7153	5	15	0.05	0.99	
1,3-Dichloropropane		0.7761	0.8336	0.8214	0.8173	0.8253	0.7998	0.7916	AVRG		1.23566		0.8093	3	15	0.05	0.99	
Tetrachloroethene		0.4088	0.4323	0.4005	0.4122	0.4108	0.3848	0.4078	AVRG		2.45000		0.4082	3	15	0.05	0.99	
Dibromochloromethane		0.5298	0.5770	0.5724	0.5636	0.5530	0.5344	0.5320	AVRG		1.81240		0.5518	4	15	0.05	0.99	
1,2-Dibromoethane		0.4676	0.4577	0.4738	0.4812	0.4606	0.4551	0.4407	AVRG		2.16265		0.4624	3	15	0.05	0.99	
Chlorobenzene		1.1842	1.2279	1.2123	1.1973	1.1838	1.1045	1.1419	AVRG		0.84828		1.1788	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4408	0.4566	0.4557	0.4523	0.4479	0.4203	0.4228	AVRG		2.26065		0.4424	3	15	0.05	0.99	
Ethylbenzene		2.1001	2.1188	2.0598	1.9904	1.9468	1.7853	1.8375	AVRG		0.50582		1.9770	7	15	0.05	0.99	
m,p-Xylenes	0.7567	0.6981	0.7692	0.7191	0.7241	0.6927	0.6329	0.6319	AVRG		1.42233		0.7031	7	15	0.05	0.99	
o-Xylene		0.7164	0.7450	0.7296	0.7048	0.7170	0.6712	0.6731	AVRG		1.41213		0.7082	4	15	0.05	0.99	
Styrene		1.2580	1.2844	1.2626	1.2740	1.2803	1.2027	1.2082	AVRG		0.79816		1.2529	3	15	0.05	0.99	
Bromoform		0.3755	0.3925	0.4085	0.4147	0.4173	0.3909	0.3955	AVRG		2.50467		0.3993	4	15	0.10	0.99	
Isopropylbenzene		3.6837	3.6725	3.5008	3.7215	3.4584	3.2041	3.1385	AVRG		0.28713		3.4828	7	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.5792	1.6224	1.6354	1.7029	1.6236	1.4975	1.4587	AVRG		0.62951		1.5885	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.2588	1.2442	1.2898	1.2922	1.2425	1.1690	1.1043	AVRG		0.81388		1.2287	6	15	0.05	0.99	
Propylbenzene		4.9115	5.0135	4.8150	5.0145	4.5567	4.1631	4.1555	AVRG		0.21453		4.6614	8	15	0.05	0.99	
Bromobenzene		1.0312	1.0445	1.0950	1.1208	1.0479	0.9769	0.9994	AVRG		0.95684		1.0451	5	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.1579	3.1119	3.1128	3.1543	2.9069	2.7464	2.6411	AVRG		0.33603		2.9759	7	15	0.05	0.99	
2-Chlorotoluene		3.1351	3.1677	3.2980	3.3854	3.0913	2.9162	2.9002	AVRG		0.31973		3.1277	6	15	0.05	0.99	
4-Chlorotoluene		2.9854	3.1038	3.0701	3.1115	2.8395	2.7446	2.7764	AVRG		0.33929		2.9473	5	15	0.05	0.99	
tert-Butylbenzene		2.5297	2.6666	2.4707	2.5724	2.3962	2.1431	2.1653	AVRG		0.41313		2.4206	8	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.0450	3.1108	2.9700	3.2522	3.0054	2.7419	2.7052	AVRG		0.33604		2.9758	7	15	0.05	0.99	
sec-Butylbenzene		4.1444	4.1923	4.0275	4.2048	4.0096	3.5874	3.4813	AVRG		0.25319		3.9496	7	15	0.05	0.99	
para-Isopropyl Toluene		3.0770	3.2743	3.1112	3.2607	2.9427	2.7309	2.7471	AVRG		0.33106		3.0206	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8580	1.9433	1.9394	1.9239	1.8003	1.7044	1.7313	AVRG		0.54261		1.8429	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.8669	1.9023	1.9552	1.9611	1.8581	1.7359	1.7700	AVRG		0.53642		1.8642	5	15	0.05	0.99	
n-Butylbenzene		3.0304	3.1487	3.1099	3.3922	3.1023	2.8202	2.9589	AVRG		0.32464		3.0804	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.7815	1.8405	1.8277	1.8937	1.7893	1.6519	1.7151	AVRG		0.56001		1.7857	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.3052	0.3069	0.3048	0.2996	0.3048	0.2771	0.2848	AVRG		3.36013		0.2976	4	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9320	1.0170	1.0469	1.1221	1.0247	0.9792	1.0472	AVRG		0.97642		1.0241	6	15	0.05	0.99	
Hexachlorobutadiene		0.5596	0.5720	0.5712	0.5913	0.5715	0.5225	0.5526	AVRG		1.77633		0.5630	4	15	0.05	0.99	
Naphthalene		2.3188	2.5958	2.7777	2.9366	2.9060	2.7110	2.9022	AVRG		0.36557		2.7354	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		0.9408	1.0233	1.0105	1.0832	1.0244	0.9815	1.0502	AVRG		0.98401		1.0163	5	15	0.05	0.99	
Dibromofluoromethane					0.6494				AVRG		1.53999		0.6494	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.3563				AVRG		2.80644		0.3563	0	15	0.05	0.99	
Trifluorotoluene	0.5565	0.5669	0.5779	0.5843	0.5822	0.5648	0.5358	0.5703	AVRG		1.76260		0.5673	3	15	0.05	0.99	
Toluene-d8					1.0288				AVRG		0.97202		1.0288	0	15	0.05	0.99	
Bromofluorobenzene					1.1047				AVRG		0.90518		1.1047	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-15	10.00	-16	20.00	13	50.00	8	60.00	6	75.00	-1	100.0	5
Chloromethane			5.000	-3	10.00	-6	20.00	8	50.00	2	60.00	3	75.00	-4	100.0	-2
Vinyl Chloride	2.500	0	5.000	-6	10.00	-3	20.00	12	50.00	2	60.00	3	75.00	-6	100.0	-3
Bromomethane			5.000	-10	10.00	-4	20.00	8	50.00	9	60.00	3	75.00	-2	100.0	-4
Chloroethane			5.000	-4	10.00	1	20.00	8	50.00	7	60.00	0	75.00	-5	100.0	-7
Trichlorofluoromethane			5.000	0	10.00	5	20.00	8	50.00	2	60.00	-2	75.00	-8	100.0	-5
Acetone			5.000	4	10.00	9	20.00	8	50.00	0	60.00	0	75.00	-10	100.0	-11
Freon 113			5.000	2	10.00	9	20.00	1	50.00	4	60.00	-2	75.00	-10	100.0	-3
1,1-Dichloroethene			5.000	6	10.00	2	20.00	3	50.00	2	60.00	-2	75.00	-7	100.0	-3
Methylene Chloride			5.000	0	10.00	1	20.00	6	50.00	3	60.00	0	75.00	-7	100.0	-4
Carbon Disulfide			5.000	2	10.00	3	20.00	5	50.00	1	60.00	-1	75.00	-7	100.0	-3
MTBE			5.000	1	10.00	2	20.00	5	50.00	4	60.00	1	75.00	-6	100.0	-6
trans-1,2-Dichloroethene			5.000	3	10.00	2	20.00	6	50.00	1	60.00	0	75.00	-7	100.0	-5
Vinyl Acetate					10.00	-25	20.00	4	50.00	7	60.00	7	75.00	2	100.0	5
1,1-Dichloroethane			5.000	3	10.00	5	20.00	3	50.00	2	60.00	-1	75.00	-9	100.0	-3
2-Butanone			5.000	-6	10.00	-2	20.00	2	50.00	4	60.00	7	75.00	-3	100.0	-2
2,2-Dichloropropane			5.000	-6	10.00	-1	20.00	2	50.00	5	60.00	4	75.00	-4	100.0	0
cis-1,2-Dichloroethene			5.000	1	10.00	3	20.00	3	50.00	2	60.00	0	75.00	-6	100.0	-4
Chloroform			5.000	-3	10.00	4	20.00	5	50.00	2	60.00	2	75.00	-5	100.0	-4
Bromochloromethane			5.000	-5	10.00	1	20.00	7	50.00	3	60.00	3	75.00	-6	100.0	-3
1,1,1-Trichloroethane			5.000	1	10.00	5	20.00	3	50.00	2	60.00	0	75.00	-7	100.0	-5
1,1-Dichloropropene			5.000	3	10.00	3	20.00	0	50.00	1	60.00	-1	75.00	-6	100.0	0
Carbon Tetrachloride			5.000	1	10.00	7	20.00	3	50.00	5	60.00	-4	75.00	-8	100.0	-4
1,2-Dichloroethane			5.000	4	10.00	3	20.00	4	50.00	1	60.00	-1	75.00	-5	100.0	-5
Benzene			5.000	4	10.00	2	20.00	5	50.00	0	60.00	-2	75.00	-5	100.0	-3
Trichloroethene			5.000	-1	10.00	3	20.00	2	50.00	3	60.00	-1	75.00	-4	100.0	-2
1,2-Dichloropropane			5.000	3	10.00	0	20.00	3	50.00	0	60.00	-1	75.00	-4	100.0	-1
Bromodichloromethane			5.000	-4	10.00	2	20.00	4	50.00	1	60.00	0	75.00	-2	100.0	-2
Dibromomethane			5.000	-7	10.00	0	20.00	5	50.00	5	60.00	1	75.00	-1	100.0	-2
4-Methyl-2-Pentanone			5.000	-10	10.00	-5	20.00	2	50.00	6	60.00	6	75.00	-1	100.0	1
cis-1,3-Dichloropropene			5.000	-1	10.00	-1	20.00	3	50.00	4	60.00	2	75.00	-4	100.0	-2
Toluene			5.000	-2	10.00	5	20.00	4	50.00	4	60.00	-1	75.00	-4	100.0	-5
trans-1,3-Dichloropropene			5.000	-2	10.00	-4	20.00	2	50.00	5	60.00	1	75.00	-1	100.0	-2
1,1,2-Trichloroethane			5.000	0	10.00	1	20.00	4	50.00	4	60.00	0	75.00	-5	100.0	-4
2-Hexanone			5.000	-8	10.00	-3	20.00	2	50.00	3	60.00	8	75.00	0	100.0	-1
1,3-Dichloropropane			5.000	-4	10.00	3	20.00	1	50.00	1	60.00	2	75.00	-1	100.0	-2
Tetrachloroethene			5.000	0	10.00	6	20.00	-2	50.00	1	60.00	1	75.00	-6	100.0	0
Dibromochloromethane			5.000	-4	10.00	5	20.00	4	50.00	2	60.00	0	75.00	-3	100.0	-4
1,2-Dibromoethane			5.000	1	10.00	-1	20.00	2	50.00	4	60.00	0	75.00	-2	100.0	-5
Chlorobenzene			5.000	0	10.00	4	20.00	3	50.00	2	60.00	0	75.00	-6	100.0	-3
1,1,1,2-Tetrachloroethane			5.000	0	10.00	3	20.00	3	50.00	2	60.00	1	75.00	-5	100.0	-4
Ethylbenzene			5.000	6	10.00	7	20.00	4	50.00	1	60.00	-2	75.00	-10	100.0	-7

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	8	10.00	-1	20.00	9	40.00	2	100.0	3	120.0	-1	150.0	-10	200.0	-10
o-Xylene			5.000	1	10.00	5	20.00	3	50.00	0	60.00	1	75.00	-5	100.0	-5
Styrene			5.000	0	10.00	3	20.00	1	50.00	2	60.00	2	75.00	-4	100.0	-4
Bromoform			5.000	-6	10.00	-2	20.00	2	50.00	4	60.00	5	75.00	-2	100.0	-1
Isopropylbenzene			5.000	6	10.00	5	20.00	1	50.00	7	60.00	-1	75.00	-8	100.0	-10
1,1,2,2-Tetrachloroethane			5.000	-1	10.00	2	20.00	3	50.00	7	60.00	2	75.00	-6	100.0	-8
1,2,3-Trichloropropane			5.000	2	10.00	1	20.00	5	50.00	5	60.00	1	75.00	-5	100.0	-10
Propylbenzene			5.000	5	10.00	8	20.00	3	50.00	8	60.00	-2	75.00	-11	100.0	-11
Bromobenzene			5.000	-1	10.00	0	20.00	5	50.00	7	60.00	0	75.00	-7	100.0	-4
1,3,5-Trimethylbenzene			5.000	6	10.00	5	20.00	5	50.00	6	60.00	-2	75.00	-8	100.0	-11
2-Chlorotoluene			5.000	0	10.00	1	20.00	5	50.00	8	60.00	-1	75.00	-7	100.0	-7
4-Chlorotoluene			5.000	1	10.00	5	20.00	4	50.00	6	60.00	-4	75.00	-7	100.0	-6
tert-Butylbenzene			5.000	5	10.00	10	20.00	2	50.00	6	60.00	-1	75.00	-11	100.0	-11
1,2,4-Trimethylbenzene			5.000	2	10.00	5	20.00	0	50.00	9	60.00	1	75.00	-8	100.0	-9
sec-Butylbenzene			5.000	5	10.00	6	20.00	2	50.00	6	60.00	2	75.00	-9	100.0	-12
para-Isopropyl Toluene			5.000	2	10.00	8	20.00	3	50.00	8	60.00	-3	75.00	-10	100.0	-9
1,3-Dichlorobenzene			5.000	1	10.00	5	20.00	5	50.00	4	60.00	-2	75.00	-8	100.0	-6
1,4-Dichlorobenzene			5.000	0	10.00	2	20.00	5	50.00	5	60.00	0	75.00	-7	100.0	-5
n-Butylbenzene			5.000	-2	10.00	2	20.00	1	50.00	10	60.00	1	75.00	-8	100.0	-4
1,2-Dichlorobenzene			5.000	0	10.00	3	20.00	2	50.00	6	60.00	0	75.00	-7	100.0	-4
1,2-Dibromo-3-Chloropropane			5.000	3	10.00	3	20.00	2	50.00	1	60.00	2	75.00	-7	100.0	-4
1,2,4-Trichlorobenzene			5.000	-9	10.00	-1	20.00	2	50.00	10	60.00	0	75.00	-4	100.0	2
Hexachlorobutadiene			5.000	-1	10.00	2	20.00	1	50.00	5	60.00	2	75.00	-7	100.0	-2
Naphthalene			5.000	-15	10.00	-5	20.00	2	50.00	7	60.00	6	75.00	-1	100.0	6
1,2,3-Trichlorobenzene			5.000	-7	10.00	1	20.00	-1	50.00	7	60.00	1	75.00	-3	100.0	3
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene	2.500	-2	5.000	0	10.00	2	20.00	3	50.00	3	60.00	0	75.00	-6	100.0	1
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Name : 826GOX6S
Calnum : 457437048001 Cal Date : 30-OCT-2007 Type : SOIL

ICV 457437048020 (fju20 30-OCT-2007) stds: S7415 (10000X), S7444 (1000X)
ICV 457437048021 (fju21 30-OCT-2007) stds: S7480 (10000X), S7498 (10000X), S7444 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	457437048020	0.5677	0.6702	25.00	29.52	ug/L	18	20	
Chloromethane	457437048020	1.0774	1.1481	25.00	26.64	ug/L	7	20	
Vinyl Chloride	457437048020	0.8692	0.8598	25.00	24.73	ug/L	-1	20	
Bromomethane	457437048020	0.3796	0.3719	25.00	24.49	ug/L	-2	20	
Chloroethane	457437048020	0.4249	0.4128	25.00	24.28	ug/L	-3	20	
Trichlorofluoromethane	457437048020	0.8161	0.7975	25.00	24.43	ug/L	-2	20	
Acetone	457437048021	0.5077	0.4678	25.00	23.04	ug/L	-8	30	
Freon 113	457437048021	0.6874	0.5766	25.00	20.97	ug/L	-16	20	
1,1-Dichloroethene	457437048021	0.5835	0.5637	25.00	24.15	ug/L	-3	20	
Methylene Chloride	457437048021	0.8858	0.9055	25.00	25.55	ug/L	2	20	
Carbon Disulfide	457437048021	2.5954	2.2413	25.00	21.59	ug/L	-14	20	
MTBE	457437048021	2.2794	2.1453	25.00	23.53	ug/L	-6	20	
trans-1,2-Dichloroethene	457437048021	0.7223	0.6725	25.00	23.28	ug/L	-7	20	
Vinyl Acetate	457437048021	2.1249	1.7340	25.00	20.40	ug/L	-18	30	
1,1-Dichloroethane	457437048021	1.5254	1.4580	25.00	23.89	ug/L	-4	20	
2-Butanone	457437048021	0.7598	0.6752	25.00	22.22	ug/L	-11	30	
2,2-Dichloropropane	457437048021	0.7592	0.6759	25.00	22.25	ug/L	-11	20	
cis-1,2-Dichloroethene	457437048021	0.8178	0.8096	25.00	24.75	ug/L	-1	20	
Chloroform	457437048021	1.3164	1.2723	25.00	24.16	ug/L	-3	20	
Bromochloromethane	457437048021	0.4270	0.4309	25.00	25.23	ug/L	1	20	
1,1,1-Trichloroethane	457437048021	0.8226	0.7588	25.00	23.06	ug/L	-8	20	
1,1-Dichloropropene	457437048021	0.5549	0.5434	25.00	24.48	ug/L	-2	20	
Carbon Tetrachloride	457437048021	0.3947	0.3661	25.00	23.19	ug/L	-7	20	
1,2-Dichloroethane	457437048021	0.6038	0.5769	25.00	23.88	ug/L	-4	20	
Benzene	457437048021	1.7264	1.7408	25.00	25.21	ug/L	1	20	
Trichloroethene	457437048021	0.4014	0.3979	25.00	24.78	ug/L	-1	20	
1,2-Dichloropropane	457437048021	0.5501	0.5434	25.00	24.70	ug/L	-1	20	
Bromodichloromethane	457437048021	0.5878	0.5885	25.00	25.03	ug/L	0	20	
Dibromomethane	457437048021	0.3247	0.3297	25.00	25.38	ug/L	2	20	
4-Methyl-2-Pentanone	457437048021	0.8201	0.7989	25.00	24.35	ug/L	-3	30	
cis-1,3-Dichloropropene	457437048021	0.7342	0.7337	25.00	24.99	ug/L	0	20	
Toluene	457437048021	0.9434	0.9396	25.00	24.90	ug/L	0	20	
trans-1,3-Dichloropropene	457437048021	0.6310	0.5882	25.00	23.31	ug/L	-7	20	
1,1,2-Trichloroethane	457437048021	0.2433	0.2486	25.00	25.54	ug/L	2	20	
2-Hexanone	457437048021	0.7153	0.6865	25.00	24.00	ug/L	-4	30	
1,3-Dichloropropane	457437048021	0.8093	0.8311	25.00	25.67	ug/L	3	20	
Tetrachloroethene	457437048021	0.4082	0.4017	25.00	24.61	ug/L	-2	20	
Dibromochloromethane	457437048021	0.5518	0.5246	25.00	23.77	ug/L	-5	20	
1,2-Dibromoethane	457437048021	0.4624	0.4532	25.00	24.50	ug/L	-2	20	
Chlorobenzene	457437048021	1.1788	1.1662	25.00	24.73	ug/L	-1	20	
1,1,1,2-Tetrachloroethane	457437048021	0.4424	0.4382	25.00	24.77	ug/L	-1	20	
Ethylbenzene	457437048021	1.9770	1.9871	25.00	25.13	ug/L	1	20	
m,p-Xylenes	457437048021	0.7031	0.6993	50.00	49.73	ug/L	-1	20	
o-Xylene	457437048021	0.7082	0.6981	25.00	24.64	ug/L	-1	20	
Styrene	457437048021	1.2529	1.2673	25.00	25.29	ug/L	1	20	
Bromoform	457437048021	0.3993	0.3984	25.00	24.95	ug/L	0	20	
Isopropylbenzene	457437048021	3.4828	3.0953	25.00	22.22	ug/L	-11	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	457437048021	1.5885	1.5201	25.00	23.92	ug/L	-4	20	
1,2,3-Trichloropropane	457437048021	1.2287	1.1557	25.00	23.52	ug/L	-6	20	
Propylbenzene	457437048021	4.6614	4.4572	25.00	23.90	ug/L	-4	20	
Bromobenzene	457437048021	1.0451	1.0693	25.00	25.58	ug/L	2	20	
1,3,5-Trimethylbenzene	457437048021	2.9759	2.8797	25.00	24.19	ug/L	-3	20	
2-Chlorotoluene	457437048021	3.1277	3.1246	25.00	24.98	ug/L	0	20	
4-Chlorotoluene	457437048021	2.9473	2.7292	25.00	23.15	ug/L	-7	20	
tert-Butylbenzene	457437048021	2.4206	2.3113	25.00	23.87	ug/L	-5	20	
1,2,4-Trimethylbenzene	457437048021	2.9758	3.0098	25.00	25.29	ug/L	1	20	
sec-Butylbenzene	457437048021	3.9496	3.7783	25.00	23.92	ug/L	-4	20	
para-Isopropyl Toluene	457437048021	3.0206	2.8190	25.00	23.33	ug/L	-7	20	
1,3-Dichlorobenzene	457437048021	1.8429	1.7093	25.00	23.19	ug/L	-7	20	
1,4-Dichlorobenzene	457437048021	1.8642	1.7564	25.00	23.55	ug/L	-6	20	
n-Butylbenzene	457437048021	3.0804	2.8291	25.00	22.96	ug/L	-8	20	
1,2-Dichlorobenzene	457437048021	1.7857	1.7425	25.00	24.40	ug/L	-2	20	
1,2-Dibromo-3-Chloropropane	457437048021	0.2976	0.2717	25.00	22.83	ug/L	-9	20	
1,2,4-Trichlorobenzene	457437048021	1.0241	0.9461	25.00	23.10	ug/L	-8	20	
Hexachlorobutadiene	457437048021	0.5630	0.5470	25.00	24.29	ug/L	-3	20	
Naphthalene	457437048021	2.7354	2.5660	25.00	23.45	ug/L	-6	20	
1,2,3-Trichlorobenzene	457437048021	1.0163	0.9974	25.00	24.54	ug/L	-2	20	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 MSVOA Soil: EPA 8260B

Inst : MSVOA12
Calnum : 887436786002
Units : ug/L

Name : 8260GX12
Date : 30-OCT-2007 17:42
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	lju14	887436786014	2.5PPB	30-OCT-2007 17:42	S7425 (20000X), S7424 (20000X), S7365 (5000X)
L2	lju15	887436786015	5PPB	30-OCT-2007 18:14	S7425 (10000X), S7424 (10000X), S7365 (5000X)
L3	lju16	887436786016	10PPB	30-OCT-2007 18:47	S7425 (5000X), S7424 (5000X), S7365 (5000X)
L4	lju17	887436786017	20PPB	30-OCT-2007 19:19	S7417 (25000X), S7531 (25000X), S7365 (5000X)
L5	lju18	887436786018	50PPB	30-OCT-2007 19:51	S7417 (10000X), S7531 (10000X), S7365 (5000X)
L6	lju19	887436786019	60PPB	30-OCT-2007 20:23	S7417 (8333X), S7531 (8333X), S7365 (5000X)
L7	lju20	887436786020	75PPB	30-OCT-2007 20:56	S7417 (6667X), S7531 (6667X), S7365 (5000X)
L8	lju21	887436786021	100PPB	30-OCT-2007 21:28	S7417 (5000X), S7531 (5000X), S7365 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6356	0.5744	0.7385	0.8076	0.8088	0.8065	0.7544	AVRG		1.36562		0.7323	13	15	0.05	0.99	
Chloromethane		1.3230	1.2720	1.3574	1.3839	1.3471	1.3262	1.2206	AVRG		0.75837		1.3186	4	15	0.10	0.99	
Vinyl Chloride	1.3841	1.2800	1.2958	1.3439	1.4293	1.3724	1.3850	1.2895	AVRG		0.74212		1.3475	4	15	0.05	0.99	
Bromomethane		0.7816	0.7795	0.7243	0.7960	0.7932	0.7962	0.7472	AVRG		1.29199		0.7740	4	15	0.05	0.99	
Chloroethane		0.8583	0.8303	0.7991	0.8628	0.8445	0.8419	0.7758	AVRG		1.20426		0.8304	4	15	0.05	0.99	
Trichlorofluoromethane		1.6479	1.6562	1.5592	1.7356	1.7086	1.7288	1.6252	AVRG		0.60026		1.6659	4	15	0.05	0.99	
Acetone			0.2710	0.2658	0.2126	0.2399	0.2079	0.1885	AVRG		4.33023		0.2309	14	15	0.05	0.99	
Freon 113		1.0336	0.8471	0.7361	0.7825	0.7769	0.7636	0.7141	AVRG		1.23807		0.8077	13	15	0.05	0.99	
1,1-Dichloroethene		0.7866	0.5853	0.5145	0.5881	0.6054	0.6056	0.5888	AVRG		1.63765		0.6106	14	15	0.05	0.99	
Methylene Chloride			0.8144	0.7279	0.7450	0.7498	0.7380	0.6923	AVRG		1.34311		0.7445	5	15	0.05	0.99	
Carbon Disulfide		2.6215	2.5239	2.2249	2.3761	2.3561	2.3064	2.1720	AVRG		0.42217		2.3687	7	15	0.05	0.99	
MTBE		1.4417	1.4406	1.4464	1.6811	1.7151	1.7485	1.7119	AVRG		0.62583		1.5979	9	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6835	0.7132	0.6665	0.7078	0.7282	0.7248	0.6937	AVRG		1.42345		0.7025	3	15	0.05	0.99	
Vinyl Acetate		0.6667	0.7004	0.9370	1.0952	1.1373	1.1559	1.1318	LINR	3.29423	0.84369		0.9749	0.999	15	0.05	0.99	
1,1-Dichloroethane		1.4451	1.3960	1.2843	1.3630	1.3760	1.3553	1.2916	AVRG		0.73598		1.3587	4	15	0.10	0.99	
2-Butanone			0.2877	0.2674	0.2914	0.2920	0.3063	0.2963	AVRG		3.44618		0.2902	4	15	0.05	0.99	
2,2-Dichloropropane		1.1173	1.0992	1.0082	1.0917	1.1108	1.1017	1.0677	AVRG		0.92146		1.0852	3	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6665	0.6863	0.6777	0.7521	0.7807	0.7557	0.7345	AVRG		1.38517		0.7219	6	15	0.05	0.99	
Chloroform		1.3775	1.3748	1.2162	1.2723	1.2932	1.2725	1.2366	AVRG		0.77408		1.2919	5	15	0.05	0.99	
Bromochloromethane		0.3421	0.3475	0.3221	0.3390	0.3474	0.3454	0.3390	AVRG		2.93813		0.3404	3	15	0.05	0.99	
1,1,1-Trichloroethane		1.2560	1.2266	1.0895	1.1358	1.1688	1.1369	1.1025	AVRG		0.86249		1.1594	5	15	0.05	0.99	
1,1-Dichloropropene		0.5890	0.6140	0.5803	0.6869	0.7046	0.6977	0.6820	AVRG		1.53688		0.6507	8	15	0.05	0.99	
Carbon Tetrachloride		0.7121	0.7190	0.6299	0.7003	0.7014	0.6895	0.6737	AVRG		1.45052		0.6894	4	15	0.05	0.99	
1,2-Dichloroethane		0.6784	0.6419	0.5973	0.6131	0.6180	0.6047	0.5891	AVRG		1.61199		0.6203	5	15	0.05	0.99	
Benzene		2.2478	2.2492	1.9969	2.1758	2.1683	2.0912	1.9895	AVRG		0.46921		2.1312	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4757	0.4690	0.4415	0.4913	0.5008	0.4973	0.4848	AVRG		2.08303		0.4801	4	15	0.05	0.99	
1,2-Dichloropropane		0.4802	0.4848	0.4662	0.5074	0.5096	0.5019	0.4953	AVRG		2.03169		0.4922	3	15	0.05	0.99	
Bromodichloromethane		0.6196	0.6119	0.5542	0.6125	0.6161	0.6134	0.6016	AVRG		1.65506		0.6042	4	15	0.05	0.99	
Dibromomethane		0.2575	0.2564	0.2301	0.2448	0.2497	0.2449	0.2389	AVRG		4.06439		0.2460	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.3513	0.3956	0.4153	0.4653	0.4673	0.4853	0.4728	AVRG		2.29287		0.4361	11	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6185	0.6744	0.6721	0.7726	0.7833	0.7780	0.7608	AVRG		1.38350		0.7228	9	15	0.05	0.99	
Toluene		1.3914	1.4214	1.2814	1.4173	1.4415	1.4047	1.3572	AVRG		0.72055		1.3878	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5481	0.5930	0.5715	0.6572	0.6817	0.6860	0.6806	AVRG		1.58440		0.6312	9	15	0.05	0.99	
1,1,2-Trichloroethane		0.2325	0.2082	0.1986	0.2126	0.2138	0.2115	0.2089	AVRG		4.71063		0.2123	5	15	0.05	0.99	
2-Hexanone			0.2640	0.2820	0.3340	0.3390	0.3618	0.3474	AVRG		3.11156		0.3214	12	15	0.05	0.99	
1,3-Dichloropropane		0.7565	0.7457	0.7367	0.7512	0.7751	0.7619	0.7293	AVRG		1.33172		0.7509	2	15	0.05	0.99	
Tetrachloroethene		0.6162	0.6110	0.5551	0.6068	0.6206	0.6055	0.5934	AVRG		1.66335		0.6012	4	15	0.05	0.99	
Dibromochloromethane		0.4285	0.4330	0.4063	0.4398	0.4624	0.4534	0.4426	AVRG		2.28318		0.4380	4	15	0.05	0.99	
1,2-Dibromoethane		0.3431	0.3398	0.3182	0.3615	0.3650	0.3724	0.3626	AVRG		2.84254		0.3518	5	15	0.05	0.99	
Chlorobenzene		1.6946	1.7050	1.5384	1.6412	1.6838	1.6274	1.5720	AVRG		0.61070		1.6375	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.5745	0.5778	0.5115	0.5429	0.5637	0.5536	0.5376	AVRG		1.81266		0.5517	4	15	0.05	0.99	
Ethylbenzene		2.6736	2.9031	2.7050	2.9936	3.0521	2.9643	2.7765	AVRG		0.34881		2.8669	5	15	0.05	0.99	
m,p-Xylenes	0.9913	1.0776	1.1954	1.1107	1.2275	1.2596	1.2186	1.1631	AVRG		0.86543		1.1555	8	15	0.05	0.99	
o-Xylene		0.8571	0.9888	0.9634	1.1565	1.1982	1.1929	1.1680	AVRG		0.93025		1.0750	13	15	0.05	0.99	
Styrene		1.3964	1.6473	1.6136	1.8679	1.9458	1.9370	1.8823	AVRG		0.56956		1.7558	12	15	0.05	0.99	
Bromoform		0.2947	0.3096	0.3016	0.3363	0.3510	0.3603	0.3596	AVRG		3.02622		0.3304	9	15	0.10	0.99	
Isopropylbenzene		3.4178	3.8897	3.7870	4.4566	4.5843	4.3797	4.2705	AVRG		0.24318		4.1123	10	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9979	1.0049	0.9140	0.9409	0.9597	0.9293	0.9397	AVRG		1.04692		0.9552	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.9782	1.0343	0.9307	0.9640	0.9860	0.9705	0.9695	AVRG		1.02441		0.9762	3	15	0.05	0.99	
Propylbenzene		5.1030	5.6811	5.2346	5.8409	5.9023	5.4987	5.2158	AVRG		0.18193		5.4966	6	15	0.05	0.99	
Bromobenzene		1.1249	1.1101	1.0029	1.0932	1.1339	1.1025	1.1039	AVRG		0.91248		1.0959	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.3189	3.7621	3.5999	4.1254	4.2307	4.0306	3.9281	AVRG		0.25930		3.8565	8	15	0.05	0.99	
2-Chlorotoluene		3.6893	3.8899	3.5291	3.8769	3.9657	3.7628	3.7224	AVRG		0.26479		3.7766	4	15	0.05	0.99	
4-Chlorotoluene		3.0536	3.2984	3.0339	3.4276	3.5314	3.3519	3.3091	AVRG		0.30427		3.2866	6	15	0.05	0.99	
tert-Butylbenzene		2.7770	3.2554	3.1459	3.6803	3.7686	3.6167	3.5396	AVRG		0.29432		3.3976	10	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.5010	4.0463	3.7947	4.2558	4.3307	4.1229	3.9870	AVRG		0.24966		4.0055	7	15	0.05	0.99	
sec-Butylbenzene		4.7047	5.2731	5.0313	5.7427	5.8009	5.4711	5.1993	AVRG		0.18806		5.3176	7	15	0.05	0.99	
para-Isopropyl Toluene		3.7172	4.4274	4.2347	4.8549	4.9170	4.6837	4.5072	AVRG		0.22334		4.4774	9	15	0.05	0.99	
1,3-Dichlorobenzene		2.3472	2.3573	2.1469	2.3419	2.4125	2.2924	2.2964	AVRG		0.43224		2.3135	4	15	0.05	0.99	
1,4-Dichlorobenzene		2.5887	2.5265	2.2669	2.4073	2.4638	2.3332	2.3224	AVRG		0.41399		2.4155	5	15	0.05	0.99	
n-Butylbenzene		3.6688	4.1918	4.0838	4.6960	4.7569	4.4909	4.3248	AVRG		0.23169		4.3162	9	15	0.05	0.99	
1,2-Dichlorobenzene		2.0585	2.1184	1.9770	2.1276	2.1951	2.1074	2.0900	AVRG		0.47703		2.0963	3	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1785	0.1768	0.1750	0.1916	0.1915	0.1941	0.1963	AVRG		5.36879		0.1863	5	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.1929	1.2856	1.2655	1.5060	1.5614	1.5322	1.5548	AVRG		0.70719		1.4140	11	15	0.05	0.99	
Hexachlorobutadiene		0.9433	1.0042	0.9117	1.0054	1.0391	0.9951	0.9950	AVRG		1.01539		0.9848	4	15	0.05	0.99	
Naphthalene		2.0541	2.3485	2.6654	3.2712	3.3408	3.3679	3.3888	LINR	3.27229	0.28497		2.9195	0.999	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		1.2139	1.2834	1.2499	1.4503	1.4943	1.4713	1.4786	AVRG		0.72601		1.3774	9	15	0.05	0.99	
Dibromofluoromethane	0.4766	0.4677	0.4674	0.4605	0.4702	0.4567	0.4631	0.4528	AVRG		2.15348		0.4644	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3758	0.3907	0.3731	0.3786	0.3880	0.3791	0.3832	0.3761	AVRG		2.62751		0.3806	2	15	0.05	0.99	
Trifluorotoluene		0.8856	0.9148	0.7905	0.9040	0.9161	0.9103	0.8820	AVRG		1.12844		0.8862	5	15	0.05	0.99	
Toluene-d8	1.2230	1.2255	1.2302	1.2396	1.2390	1.2312	1.2333	1.2080	AVRG		0.81385		1.2287	1	15	0.05	0.99	
Bromofluorobenzene	0.8058	0.7996	0.8126	0.8158	0.8438	0.8579	0.8431	0.8601	AVRG		1.20508		0.8298	3	15	0.05	0.99	

0702409

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-13	10.00	-22	20.00	1	50.00	10	60.00	10	75.00	10	100.0	3
Chloromethane			5.000	0	10.00	-4	20.00	3	50.00	5	60.00	2	75.00	1	100.0	-7
Vinyl Chloride	2.500	3	5.000	-5	10.00	-4	20.00	0	50.00	6	60.00	2	75.00	3	100.0	-4
Bromomethane			5.000	1	10.00	1	20.00	-6	50.00	3	60.00	2	75.00	3	100.0	-3
Chloroethane			5.000	3	10.00	0	20.00	-4	50.00	4	60.00	2	75.00	1	100.0	-7
Trichlorofluoromethane			5.000	-1	10.00	-1	20.00	-6	50.00	4	60.00	3	75.00	4	100.0	-2
Acetone					10.00	17	20.00	15	50.00	-8	60.00	4	75.00	-10	100.0	-18
Freon 113			5.000	28	10.00	5	20.00	-9	50.00	-3	60.00	-4	75.00	-5	100.0	-12
1,1-Dichloroethene			5.000	29	10.00	-4	20.00	-16	50.00	-4	60.00	-1	75.00	-1	100.0	-4
Methylene Chloride					10.00	9	20.00	-2	50.00	0	60.00	1	75.00	-1	100.0	-7
Carbon Disulfide			5.000	11	10.00	7	20.00	-6	50.00	0	60.00	-1	75.00	-3	100.0	-8
MTBE			5.000	-10	10.00	-10	20.00	-9	50.00	5	60.00	7	75.00	9	100.0	7
trans-1,2-Dichloroethene			5.000	-3	10.00	2	20.00	-5	50.00	1	60.00	4	75.00	3	100.0	-1
Vinyl Acetate			5.000	22	10.00	-8	20.00	-4	50.00	-1	60.00	1	75.00	2	100.0	-1
1,1-Dichloroethane			5.000	6	10.00	3	20.00	-5	50.00	0	60.00	1	75.00	0	100.0	-5
2-Butanone					10.00	-1	20.00	-8	50.00	0	60.00	1	75.00	6	100.0	2
2,2-Dichloropropane			5.000	3	10.00	1	20.00	-7	50.00	1	60.00	2	75.00	2	100.0	-2
cis-1,2-Dichloroethene			5.000	-8	10.00	-5	20.00	-6	50.00	4	60.00	8	75.00	5	100.0	2
Chloroform			5.000	7	10.00	6	20.00	-6	50.00	-2	60.00	0	75.00	-2	100.0	-4
Bromochloromethane			5.000	1	10.00	2	20.00	-5	50.00	0	60.00	2	75.00	1	100.0	0
1,1,1-Trichloroethane			5.000	8	10.00	6	20.00	-6	50.00	-2	60.00	1	75.00	-2	100.0	-5
1,1-Dichloropropene			5.000	-9	10.00	-6	20.00	-11	50.00	6	60.00	8	75.00	7	100.0	5
Carbon Tetrachloride			5.000	3	10.00	4	20.00	-9	50.00	2	60.00	2	75.00	0	100.0	-2
1,2-Dichloroethane			5.000	9	10.00	3	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-5
Benzene			5.000	5	10.00	6	20.00	-6	50.00	2	60.00	2	75.00	-2	100.0	-7
Trichloroethene			5.000	-1	10.00	-2	20.00	-8	50.00	2	60.00	4	75.00	4	100.0	1
1,2-Dichloropropane			5.000	-2	10.00	-1	20.00	-5	50.00	3	60.00	4	75.00	2	100.0	1
Bromodichloromethane			5.000	3	10.00	1	20.00	-8	50.00	1	60.00	2	75.00	2	100.0	0
Dibromomethane			5.000	5	10.00	4	20.00	-6	50.00	-1	60.00	1	75.00	0	100.0	-3
4-Methyl-2-Pentanone			5.000	-19	10.00	-9	20.00	-5	50.00	7	60.00	7	75.00	11	100.0	8
cis-1,3-Dichloropropene			5.000	-14	10.00	-7	20.00	-7	50.00	7	60.00	8	75.00	8	100.0	5
Toluene			5.000	0	10.00	2	20.00	-8	50.00	2	60.00	4	75.00	1	100.0	-2
trans-1,3-Dichloropropene			5.000	-13	10.00	-6	20.00	-9	50.00	4	60.00	8	75.00	9	100.0	8
1,1,2-Trichloroethane			5.000	10	10.00	-2	20.00	-6	50.00	0	60.00	1	75.00	0	100.0	-2
2-Hexanone					10.00	-18	20.00	-12	50.00	4	60.00	5	75.00	13	100.0	8
1,3-Dichloropropane			5.000	1	10.00	-1	20.00	-2	50.00	0	60.00	3	75.00	1	100.0	-3
Tetrachloroethene			5.000	2	10.00	2	20.00	-8	50.00	1	60.00	3	75.00	1	100.0	-1
Dibromochloromethane			5.000	-2	10.00	-1	20.00	-7	50.00	0	60.00	6	75.00	4	100.0	1
1,2-Dibromoethane			5.000	-2	10.00	-3	20.00	-10	50.00	3	60.00	4	75.00	6	100.0	3
Chlorobenzene			5.000	3	10.00	4	20.00	-6	50.00	0	60.00	3	75.00	-1	100.0	-4
1,1,1,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-7	50.00	-2	60.00	2	75.00	0	100.0	-3
Ethylbenzene			5.000	-7	10.00	1	20.00	-6	50.00	4	60.00	6	75.00	3	100.0	-3

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	-14	10.00	-7	20.00	3	40.00	-4	100.0	6	120.0	9	150.0	5	200.0	1
o-Xylene			5.000	-20	10.00	-8	20.00	-10	50.00	8	60.00	11	75.00	11	100.0	9
Styrene			5.000	-20	10.00	-6	20.00	-8	50.00	6	60.00	11	75.00	10	100.0	7
Bromoform			5.000	-11	10.00	-6	20.00	-9	50.00	2	60.00	6	75.00	9	100.0	9
Isopropylbenzene			5.000	-17	10.00	-5	20.00	-8	50.00	8	60.00	11	75.00	7	100.0	4
1,1,2,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-2
1,2,3-Trichloropropane			5.000	0	10.00	6	20.00	-5	50.00	-1	60.00	1	75.00	-1	100.0	-1
Propylbenzene			5.000	-7	10.00	3	20.00	-5	50.00	6	60.00	7	75.00	0	100.0	-5
Bromobenzene			5.000	3	10.00	1	20.00	-8	50.00	0	60.00	3	75.00	1	100.0	1
1,3,5-Trimethylbenzene			5.000	-14	10.00	-2	20.00	-7	50.00	7	60.00	10	75.00	5	100.0	2
2-Chlorotoluene			5.000	-2	10.00	3	20.00	-7	50.00	3	60.00	5	75.00	0	100.0	-1
4-Chlorotoluene			5.000	-7	10.00	0	20.00	-8	50.00	4	60.00	7	75.00	2	100.0	1
tert-Butylbenzene			5.000	-18	10.00	-4	20.00	-7	50.00	8	60.00	11	75.00	6	100.0	4
1,2,4-Trimethylbenzene			5.000	-13	10.00	1	20.00	-5	50.00	6	60.00	8	75.00	3	100.0	0
sec-Butylbenzene			5.000	-12	10.00	-1	20.00	-5	50.00	8	60.00	9	75.00	3	100.0	-2
para-Isopropyl Toluene			5.000	-17	10.00	-1	20.00	-5	50.00	8	60.00	10	75.00	5	100.0	1
1,3-Dichlorobenzene			5.000	1	10.00	2	20.00	-7	50.00	1	60.00	4	75.00	-1	100.0	-1
1,4-Dichlorobenzene			5.000	7	10.00	5	20.00	-6	50.00	0	60.00	2	75.00	-3	100.0	-4
n-Butylbenzene			5.000	-15	10.00	-3	20.00	-5	50.00	9	60.00	10	75.00	4	100.0	0
1,2-Dichlorobenzene			5.000	-2	10.00	1	20.00	-6	50.00	1	60.00	5	75.00	1	100.0	0
1,2-Dibromo-3-Chloropropane			5.000	-4	10.00	-5	20.00	-6	50.00	3	60.00	3	75.00	4	100.0	5
1,2,4-Trichlorobenzene			5.000	-16	10.00	-9	20.00	-11	50.00	7	60.00	10	75.00	8	100.0	10
Hexachlorobutadiene			5.000	-4	10.00	2	20.00	-7	50.00	2	60.00	6	75.00	1	100.0	1
Naphthalene			5.000	24	10.00	0	20.00	-8	50.00	0	60.00	1	75.00	0	100.0	0
1,2,3-Trichlorobenzene			5.000	-12	10.00	-7	20.00	-9	50.00	5	60.00	8	75.00	7	100.0	7
Dibromofluoromethane	50.00	3	50.00	1	50.00	1	50.00	-1	50.00	1	50.00	-2	50.00	0	50.00	-2
1,2-Dichloroethane-d4	50.00	-1	50.00	3	50.00	-2	50.00	-1	50.00	2	50.00	0	50.00	1	50.00	-1
Trifluorotoluene			5.000	0	10.00	3	20.00	-11	50.00	2	60.00	3	75.00	3	100.0	0
Toluene-d8	50.00	0	50.00	0	50.00	0	50.00	1	50.00	1	50.00	0	50.00	0	50.00	-2
Bromofluorobenzene	50.00	-3	50.00	-4	50.00	-2	50.00	-2	50.00	2	50.00	3	50.00	2	50.00	4

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

887436786002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 887436786002 Cal Date : 30-OCT-2007 Type : SOIL

ICV 887436786022 (lju22 30-OCT-2007) stds: S7415 (10000X), S7365 (5000X)
ICV 887436786023 (lju23 30-OCT-2007) stds: S7498 (10000X), S7480 (10000X), S7365 (5000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	887436786022	0.7323	0.8362	25.00	28.55	ug/L	14	20	
Chloromethane	887436786022	1.3186	1.2816	25.00	24.30	ug/L	-3	20	
Vinyl Chloride	887436786022	1.3475	1.3148	25.00	24.39	ug/L	-2	20	
Bromomethane	887436786022	0.7740	0.7171	25.00	23.16	ug/L	-7	20	
Chloroethane	887436786022	0.8304	0.7894	25.00	23.77	ug/L	-5	20	
Trichlorofluoromethane	887436786022	1.6659	1.4950	25.00	22.43	ug/L	-10	20	
Acetone	887436786023	0.2309	0.2624	25.00	28.41	ug/L	14	30	m
Freon 113	887436786023	0.8077	0.6899	25.00	21.35	ug/L	-15	20	
1,1-Dichloroethene	887436786023	0.6106	0.6325	25.00	25.89	ug/L	4	20	
Methylene Chloride	887436786023	0.7445	0.6865	25.00	23.05	ug/L	-8	20	
Carbon Disulfide	887436786023	2.3687	2.0577	25.00	21.72	ug/L	-13	20	
MTBE	887436786023	1.5979	1.4954	25.00	23.40	ug/L	-6	20	
trans-1,2-Dichloroethene	887436786023	0.7025	0.6277	25.00	22.34	ug/L	-11	20	
Vinyl Acetate	887436786023	0.9749	0.7761	25.00	19.66	ug/L	-21	30	
1,1-Dichloroethane	887436786023	1.3587	1.2192	25.00	22.43	ug/L	-10	20	
2-Butanone	887436786023	0.2902	0.2603	25.00	22.43	ug/L	-10	30	
2,2-Dichloropropane	887436786023	1.0852	0.9360	25.00	21.56	ug/L	-14	20	
cis-1,2-Dichloroethene	887436786023	0.7219	0.6775	25.00	23.46	ug/L	-6	20	
Chloroform	887436786023	1.2919	1.1633	25.00	22.51	ug/L	-10	20	
Bromochloromethane	887436786023	0.3404	0.3070	25.00	22.55	ug/L	-10	20	
1,1,1-Trichloroethane	887436786023	1.1594	1.0302	25.00	22.21	ug/L	-11	20	
1,1-Dichloropropene	887436786023	0.6507	0.5837	25.00	22.43	ug/L	-10	20	
Carbon Tetrachloride	887436786023	0.6894	0.6184	25.00	22.42	ug/L	-10	20	
1,2-Dichloroethane	887436786023	0.6203	0.5579	25.00	22.48	ug/L	-10	20	
Benzene	887436786023	2.1312	1.9753	25.00	23.17	ug/L	-7	20	
Trichloroethene	887436786023	0.4801	0.4454	25.00	23.20	ug/L	-7	20	
1,2-Dichloropropane	887436786023	0.4922	0.4448	25.00	22.59	ug/L	-10	20	
Bromodichloromethane	887436786023	0.6042	0.5743	25.00	23.76	ug/L	-5	20	
Dibromomethane	887436786023	0.2460	0.2269	25.00	23.06	ug/L	-8	20	
4-Methyl-2-Pentanone	887436786023	0.4361	0.4009	25.00	22.98	ug/L	-8	30	
cis-1,3-Dichloropropene	887436786023	0.7228	0.6784	25.00	23.46	ug/L	-6	20	
Toluene	887436786023	1.3878	1.2611	25.00	22.72	ug/L	-9	20	
trans-1,3-Dichloropropene	887436786023	0.6312	0.5379	25.00	21.31	ug/L	-15	20	
1,1,2-Trichloroethane	887436786023	0.2123	0.1952	25.00	22.99	ug/L	-8	20	
2-Hexanone	887436786023	0.3214	0.2741	25.00	21.32	ug/L	-15	30	
1,3-Dichloropropane	887436786023	0.7509	0.7162	25.00	23.84	ug/L	-5	20	
Tetrachloroethene	887436786023	0.6012	0.5359	25.00	22.29	ug/L	-11	20	
Dibromochloromethane	887436786023	0.4380	0.3989	25.00	22.77	ug/L	-9	20	
1,2-Dibromoethane	887436786023	0.3518	0.3322	25.00	23.60	ug/L	-6	20	
Chlorobenzene	887436786023	1.6375	1.4751	25.00	22.52	ug/L	-10	20	
1,1,1,2-Tetrachloroethane	887436786023	0.5517	0.5050	25.00	22.88	ug/L	-8	20	
Ethylbenzene	887436786023	2.8669	2.7071	25.00	23.61	ug/L	-6	20	
m,p-Xylenes	887436786023	1.1555	1.0919	50.00	47.25	ug/L	-6	20	
o-Xylene	887436786023	1.0750	0.9951	25.00	23.14	ug/L	-7	20	
Styrene	887436786023	1.7558	1.6928	25.00	24.10	ug/L	-4	20	
Bromoform	887436786023	0.3304	0.3051	25.00	23.08	ug/L	-8	20	
Isopropylbenzene	887436786023	4.1123	3.6296	25.00	22.07	ug/L	-12	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	887436786023	0.9552	0.8942	25.00	23.40	ug/L	-6	20	
1,2,3-Trichloropropane	887436786023	0.9762	0.9068	25.00	23.22	ug/L	-7	20	
Propylbenzene	887436786023	5.4966	5.2247	25.00	23.76	ug/L	-5	20	
Bromobenzene	887436786023	1.0959	1.0469	25.00	23.88	ug/L	-4	20	
1,3,5-Trimethylbenzene	887436786023	3.8565	3.7084	25.00	24.04	ug/L	-4	20	
2-Chlorotoluene	887436786023	3.7766	3.5473	25.00	23.48	ug/L	-6	20	
4-Chlorotoluene	887436786023	3.2866	3.0381	25.00	23.11	ug/L	-8	20	
tert-Butylbenzene	887436786023	3.3976	3.2191	25.00	23.69	ug/L	-5	20	
1,2,4-Trimethylbenzene	887436786023	4.0055	3.9444	25.00	24.62	ug/L	-2	20	
sec-Butylbenzene	887436786023	5.3176	5.0474	25.00	23.73	ug/L	-5	20	
para-Isopropyl Toluene	887436786023	4.4774	4.1657	25.00	23.26	ug/L	-7	20	
1,3-Dichlorobenzene	887436786023	2.3135	2.0926	25.00	22.61	ug/L	-10	20	
1,4-Dichlorobenzene	887436786023	2.4155	2.1602	25.00	22.36	ug/L	-11	20	
n-Butylbenzene	887436786023	4.3162	4.1127	25.00	23.82	ug/L	-5	20	
1,2-Dichlorobenzene	887436786023	2.0963	1.9303	25.00	23.02	ug/L	-8	20	
1,2-Dibromo-3-Chloropropane	887436786023	0.1863	0.1720	25.00	23.09	ug/L	-8	20	
1,2,4-Trichlorobenzene	887436786023	1.4140	1.2865	25.00	22.75	ug/L	-9	20	
Hexachlorobutadiene	887436786023	0.9848	0.9300	25.00	23.61	ug/L	-6	20	
Naphthalene	887436786023	2.9195	2.7580	25.00	22.92	ug/L	-8	20	
1,2,3-Trichlorobenzene	887436786023	1.3774	1.2527	25.00	22.74	ug/L	-9	20	

m=manual integration

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : QC413044 IDF : 1.0
Seqnum : 457438226004.4 File : fjv04 Time : 31-OCT-2007 09:15
Cal : 457437048001 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7480 (10000X), S7415 (10000X), S7498 (10000X), S7444 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5677	0.6068	25.00	26.72	ug/L	7	20	0.0500	u
Chloromethane	1.0774	1.1310	25.00	26.24	ug/L	5	20	0.1000	u
Vinyl Chloride	0.8692	0.8348	25.00	24.01	ug/L	-4	20	0.0500	u
Bromomethane	0.3796	0.4786	25.00	31.52	ug/L	**26**	20	0.0500	c+ u ***
Chloroethane	0.4249	0.3977	25.00	23.40	ug/L	-6	20	0.0500	u
Trichlorofluoromethane	0.8161	0.7949	25.00	24.35	ug/L	-3	20	0.0500	u
Acetone	0.5077	0.5534	25.00	27.25	ug/L	9	30	0.0500	u
Freon 113	0.6874	0.6682	25.00	24.30	ug/L	-3	20	0.0500	u
1,1-Dichloroethene	0.5835	0.6203	25.00	26.58	ug/L	6	20	0.0500	u
Methylene Chloride	0.8858	0.9001	25.00	25.40	ug/L	2	20	0.0500	u
Carbon Disulfide	2.5954	2.3205	25.00	22.35	ug/L	-11	20	0.0500	u
MTBE	2.2794	2.1214	25.00	23.27	ug/L	-7	20	0.0500	u
trans-1,2-Dichloroethene	0.7223	0.7194	25.00	24.90	ug/L	0	20	0.0500	u
Vinyl Acetate	2.1249	1.9331	25.00	22.74	ug/L	-9	30	0.0500	u
1,1-Dichloroethane	1.5254	1.5008	25.00	24.60	ug/L	-2	20	0.1000	u
2-Butanone	0.7598	0.7459	25.00	24.54	ug/L	-2	30	0.0500	u
cis-1,2-Dichloroethene	0.8178	0.8460	25.00	25.86	ug/L	3	20	0.0500	u
2,2-Dichloropropane	0.7592	0.8624	25.00	28.40	ug/L	14	20	0.0500	u
Chloroform	1.3164	1.2661	25.00	24.05	ug/L	-4	20	0.0500	u
Bromochloromethane	0.4270	0.4130	25.00	24.18	ug/L	-3	20	0.0500	u
1,1,1-Trichloroethane	0.8226	0.8401	25.00	25.53	ug/L	2	20	0.0500	u
1,1-Dichloropropene	0.5549	0.6246	25.00	28.14	ug/L	13	20	0.0500	u
Carbon Tetrachloride	0.3947	0.4099	25.00	25.97	ug/L	4	20	0.0500	u
1,2-Dichloroethane	0.6038	0.5668	25.00	23.47	ug/L	-6	20	0.0500	u
Benzene	1.7264	1.8578	25.00	26.90	ug/L	8	20	0.0500	u
Trichloroethene	0.4014	0.4492	25.00	27.98	ug/L	12	20	0.0500	u
1,2-Dichloropropane	0.5501	0.5461	25.00	24.82	ug/L	-1	20	0.0500	u
Bromodichloromethane	0.5878	0.5914	25.00	25.16	ug/L	1	20	0.0500	u
Dibromomethane	0.3247	0.3214	25.00	24.74	ug/L	-1	20	0.0500	u
4-Methyl-2-Pentanone	0.8201	0.8027	25.00	24.47	ug/L	-2	30	0.0500	u
cis-1,3-Dichloropropene	0.7342	0.7627	25.00	25.97	ug/L	4	20	0.0500	u
Toluene	0.9434	1.0102	25.00	26.77	ug/L	7	20	0.0500	u
trans-1,3-Dichloropropene	0.6310	0.6244	25.00	24.74	ug/L	-1	20	0.0500	u
1,1,2-Trichloroethane	0.2433	0.2402	25.00	24.68	ug/L	-1	20	0.0500	u
2-Hexanone	0.7153	0.6946	25.00	24.28	ug/L	-3	30	0.0500	u
1,3-Dichloropropane	0.8093	0.8127	25.00	25.10	ug/L	0	20	0.0500	u
Tetrachloroethene	0.4082	0.4625	25.00	28.33	ug/L	13	20	0.0500	u
Dibromochloromethane	0.5518	0.5206	25.00	23.59	ug/L	-6	20	0.0500	u
1,2-Dibromoethane	0.4624	0.4456	25.00	24.09	ug/L	-4	20	0.0500	u
Chlorobenzene	1.1788	1.2093	25.00	25.65	ug/L	3	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4424	0.4244	25.00	23.99	ug/L	-4	20	0.0500	u
Ethylbenzene	1.9770	2.1058	25.00	26.63	ug/L	7	20	0.0500	u
m,p-Xylenes	0.7031	0.7568	50.00	53.82	ug/L	8	20	0.0500	u
o-Xylene	0.7082	0.7323	25.00	25.85	ug/L	3	20	0.0500	u
Styrene	1.2529	1.3687	25.00	27.31	ug/L	9	20	0.0500	u
Bromoform	0.3993	0.3903	25.00	24.44	ug/L	-2	20	0.1000	u
Isopropylbenzene	3.4828	3.3506	25.00	24.05	ug/L	-4	20	0.0500	u
1,1,2,2-Tetrachloroethane	1.5885	1.4898	25.00	23.45	ug/L	-6	20	0.3000	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	1.2287	1.1339	25.00	23.07	ug/L	-8	20	0.0500	u
Propylbenzene	4.6614	5.0360	25.00	27.01	ug/L	8	20	0.0500	u
Bromobenzene	1.0451	1.0796	25.00	25.82	ug/L	3	20	0.0500	u
1,3,5-Trimethylbenzene	2.9759	2.9424	25.00	24.72	ug/L	-1	20	0.0500	u
2-Chlorotoluene	3.1277	3.1719	25.00	25.35	ug/L	1	20	0.0500	u
4-Chlorotoluene	2.9473	3.0831	25.00	26.15	ug/L	5	20	0.0500	u
tert-Butylbenzene	2.4206	2.3908	25.00	24.69	ug/L	-1	20	0.0500	u
1,2,4-Trimethylbenzene	2.9758	3.1972	25.00	26.86	ug/L	7	20	0.0500	u
sec-Butylbenzene	3.9496	4.1480	25.00	26.26	ug/L	5	20	0.0500	u
para-Isopropyl Toluene	3.0206	3.1504	25.00	26.07	ug/L	4	20	0.0500	u
1,3-Dichlorobenzene	1.8429	1.9349	25.00	26.25	ug/L	5	20	0.0500	u
1,4-Dichlorobenzene	1.8642	1.9799	25.00	26.55	ug/L	6	20	0.0500	u
n-Butylbenzene	3.0804	3.6282	25.00	29.45	ug/L	18	20	0.0500	u
1,2-Dichlorobenzene	1.7857	1.8324	25.00	25.65	ug/L	3	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.2976	0.2727	25.00	22.91	ug/L	-8	20	0.0500	u
1,2,4-Trichlorobenzene	1.0241	1.1977	25.00	29.24	ug/L	17	20	0.0500	u
Hexachlorobutadiene	0.5630	0.6323	25.00	28.08	ug/L	12	20	0.0500	u
Naphthalene	2.7354	2.7906	25.00	25.50	ug/L	2	20	0.0500	u
1,2,3-Trichlorobenzene	1.0163	1.1450	25.00	28.17	ug/L	13	20	0.0500	u
Dibromofluoromethane	0.6494	0.6066	50.00	46.71	ug/L	-7	20	0.0500	u
1,2-Dichloroethane-d4	0.3563	0.3567	50.00	50.06	ug/L	0	20	0.0500	u
Toluene-d8	1.0288	1.0383	50.00	50.46	ug/L	1	20	0.0500	u
Bromofluorobenzene	1.1047	1.0191	50.00	46.13	ug/L	-8	20	0.0500	u

ISTD (ICAL fju16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	647926	821377	26.77	11.95	11.94	-0.01
1,4-Difluorobenzene	1140261	1377552	20.81	13.26	13.25	-0.01
Chlorobenzene-d5	1005164	1226268	22.00	17.97	17.97	0.00
1,4-Dichlorobenzene-d4	467848	618790	32.26	20.83	20.82	-0.01

Analyst: BO Date: 11/06/07 Reviewer: LW Date: 11/06/07

+=high bias c=CCV u=use

457438226004.4

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : 30PPB IDF : 1.0
Seqnum : 457439660005.1 File : fk105 Time : 01-NOV-2007 09:32
Cal : 457437048001 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (16670X), S7403 (16670X), S7444 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5677	0.5726	30.00	30.26	ug/L	1	20	0.0500	
Chloromethane	1.0774	1.1260	30.00	31.35	ug/L	5	20	0.1000	
Vinyl Chloride	0.8692	0.8244	30.00	28.46	ug/L	-5	20	0.0500	
Bromomethane	0.3796	0.3745	30.00	29.59	ug/L	-1	20	0.0500	
Chloroethane	0.4249	0.4117	30.00	29.07	ug/L	-3	20	0.0500	
Trichlorofluoromethane	0.8161	0.7491	30.00	27.53	ug/L	-8	20	0.0500	
Acetone	0.5077	0.5729	30.00	33.85	ug/L	13	30	0.0500	
Freon 113	0.6874	0.6158	30.00	26.87	ug/L	-10	20	0.0500	
1,1-Dichloroethene	0.5835	0.5562	30.00	28.60	ug/L	-5	20	0.0500	
Methylene Chloride	0.8858	1.0400	30.00	35.22	ug/L	17	20	0.0500	
Carbon Disulfide	2.5954	2.4421	30.00	28.23	ug/L	-6	20	0.0500	
MTBE	2.2794	2.1613	30.00	28.45	ug/L	-5	20	0.0500	
trans-1,2-Dichloroethene	0.7223	0.7012	30.00	29.13	ug/L	-3	20	0.0500	
Vinyl Acetate	2.1249	2.1977	30.00	31.03	ug/L	3	30	0.0500	
1,1-Dichloroethane	1.5254	1.4474	30.00	28.47	ug/L	-5	20	0.1000	
2-Butanone	0.7598	0.8100	30.00	31.98	ug/L	7	30	0.0500	
2,2-Dichloropropane	0.7592	0.7929	30.00	31.33	ug/L	4	20	0.0500	
cis-1,2-Dichloroethene	0.8178	0.7685	30.00	28.19	ug/L	-6	20	0.0500	
Chloroform	1.3164	1.2139	30.00	27.66	ug/L	-8	20	0.0500	
Bromochloromethane	0.4270	0.3901	30.00	27.41	ug/L	-9	20	0.0500	
1,1,1-Trichloroethane	0.8226	0.7467	30.00	27.23	ug/L	-9	20	0.0500	
1,1-Dichloropropene	0.5549	0.5571	30.00	30.12	ug/L	0	20	0.0500	
Carbon Tetrachloride	0.3947	0.3808	30.00	28.95	ug/L	-3	20	0.0500	
1,2-Dichloroethane	0.6038	0.5723	30.00	28.43	ug/L	-5	20	0.0500	
Benzene	1.7264	1.7309	30.00	30.08	ug/L	0	20	0.0500	
Trichloroethene	0.4014	0.4135	30.00	30.90	ug/L	3	20	0.0500	
1,2-Dichloropropane	0.5501	0.5571	30.00	30.38	ug/L	1	20	0.0500	
Bromodichloromethane	0.5878	0.5740	30.00	29.30	ug/L	-2	20	0.0500	
Dibromomethane	0.3247	0.3240	30.00	29.93	ug/L	0	20	0.0500	
4-Methyl-2-Pentanone	0.8201	0.9190	30.00	33.62	ug/L	12	30	0.0500	
cis-1,3-Dichloropropene	0.7342	0.7700	30.00	31.46	ug/L	5	20	0.0500	
Toluene	0.9434	0.9810	30.00	31.19	ug/L	4	20	0.0500	
trans-1,3-Dichloropropene	0.6310	0.6746	30.00	32.07	ug/L	7	20	0.0500	
1,1,2-Trichloroethane	0.2433	0.2498	30.00	30.80	ug/L	3	20	0.0500	
2-Hexanone	0.7153	0.7944	30.00	33.32	ug/L	11	30	0.0500	
1,3-Dichloropropane	0.8093	0.8152	30.00	30.22	ug/L	1	20	0.0500	
Tetrachloroethene	0.4082	0.4589	30.00	33.73	ug/L	12	20	0.0500	
Dibromochloromethane	0.5518	0.5445	30.00	29.61	ug/L	-1	20	0.0500	
1,2-Dibromoethane	0.4624	0.4709	30.00	30.55	ug/L	2	20	0.0500	
Chlorobenzene	1.1788	1.2263	30.00	31.21	ug/L	4	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4424	0.4320	30.00	29.30	ug/L	-2	20	0.0500	
Ethylbenzene	1.9770	2.0383	30.00	30.93	ug/L	3	20	0.0500	
m,p-Xylenes	0.7031	0.7197	60.00	61.42	ug/L	2	20	0.0500	
o-Xylene	0.7082	0.7347	30.00	31.12	ug/L	4	20	0.0500	
Styrene	1.2529	1.3070	30.00	31.30	ug/L	4	20	0.0500	
Bromoform	0.3993	0.4394	30.00	33.02	ug/L	10	20	0.1000	
Isopropylbenzene	3.4828	3.1260	30.00	26.93	ug/L	-10	20	0.0500	
1,1,2,2-Tetrachloroethane	1.5885	1.4341	30.00	27.08	ug/L	-10	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	1.2287	1.1098	30.00	27.10	ug/L	-10	20	0.0500	
Propylbenzene	4.6614	4.3718	30.00	28.14	ug/L	-6	20	0.0500	
Bromobenzene	1.0451	1.0622	30.00	30.49	ug/L	2	20	0.0500	
1,3,5-Trimethylbenzene	2.9759	2.7845	30.00	28.07	ug/L	-6	20	0.0500	
2-Chlorotoluene	3.1277	2.9542	30.00	28.34	ug/L	-6	20	0.0500	
4-Chlorotoluene	2.9473	2.8236	30.00	28.74	ug/L	-4	20	0.0500	
tert-Butylbenzene	2.4206	2.1701	30.00	26.90	ug/L	-10	20	0.0500	
1,2,4-Trimethylbenzene	2.9758	2.7770	30.00	28.00	ug/L	-7	20	0.0500	
sec-Butylbenzene	3.9496	3.5280	30.00	26.80	ug/L	-11	20	0.0500	
para-Isopropyl Toluene	3.0206	2.8510	30.00	28.32	ug/L	-6	20	0.0500	
1,3-Dichlorobenzene	1.8429	1.8999	30.00	30.93	ug/L	3	20	0.0500	
1,4-Dichlorobenzene	1.8642	1.9435	30.00	31.28	ug/L	4	20	0.0500	
n-Butylbenzene	3.0804	2.9578	30.00	28.81	ug/L	-4	20	0.0500	
1,2-Dichlorobenzene	1.7857	1.7755	30.00	29.83	ug/L	-1	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2976	0.2737	30.00	27.59	ug/L	-8	20	0.0500	
1,2,4-Trichlorobenzene	1.0241	1.1699	30.00	34.27	ug/L	14	20	0.0500	
Hexachlorobutadiene	0.5630	0.5518	30.00	29.41	ug/L	-2	20	0.0500	
Naphthalene	2.7354	2.6242	30.00	28.78	ug/L	-4	20	0.0500	
1,2,3-Trichlorobenzene	1.0163	1.0771	30.00	31.80	ug/L	6	20	0.0500	
Dibromofluoromethane	0.6494	0.5782	50.00	44.52	ug/L	-11	20	0.0500	
1,2-Dichloroethane-d4	0.3563	0.3606	50.00	50.60	ug/L	1	20	0.0500	
Trifluorotoluene	0.5673	0.6120	30.00	32.36	ug/L	8	20	0.0500	
Toluene-d8	1.0288	1.1005	50.00	53.48	ug/L	7	20	0.0500	
Bromofluorobenzene	1.1047	0.9853	50.00	44.59	ug/L	-11	20	0.0500	

ISTD (ICAL fju16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	647926	498625	-23.04	11.95	11.95	0.01
1,4-Difluorobenzene	1140261	822035	-27.91	13.26	13.26	0.01
Chlorobenzene-d5	1005164	734577	-26.92	17.97	17.98	0.01
1,4-Dichlorobenzene-d4	467848	401902	-14.10	20.83	20.82	-0.01

Analyst: WNH Date: 11/07/07 Reviewer: LW Date: 11/08/07

457439660005.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : 30PPB IDF : 1.0
Seqnum : 457439660012.1 File : fk112 Time : 01-NOV-2007 13:28
Cal : 457437048001 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7444 (1000X), S7417 (16670X), S7403 (16670X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5677	0.5544	30.00	29.30	ug/L	-2	20	0.0500	
Chloromethane	1.0774	1.0389	30.00	28.93	ug/L	-4	20	0.1000	
Vinyl Chloride	0.8692	0.7670	30.00	26.48	ug/L	-12	20	0.0500	
Bromomethane	0.3796	0.3349	30.00	26.47	ug/L	-12	20	0.0500	
Chloroethane	0.4249	0.3626	30.00	25.60	ug/L	-15	20	0.0500	
Trichlorofluoromethane	0.8161	0.7704	30.00	28.32	ug/L	-6	20	0.0500	
Acetone	0.5077	0.5173	30.00	30.57	ug/L	2	30	0.0500	
Freon 113	0.6874	0.6288	30.00	27.45	ug/L	-9	20	0.0500	
1,1-Dichloroethene	0.5835	0.5668	30.00	29.14	ug/L	-3	20	0.0500	
Methylene Chloride	0.8858	0.8546	30.00	28.94	ug/L	-4	20	0.0500	
Carbon Disulfide	2.5954	2.4038	30.00	27.79	ug/L	-7	20	0.0500	
MTBE	2.2794	2.1130	30.00	27.81	ug/L	-7	20	0.0500	
trans-1,2-Dichloroethene	0.7223	0.7259	30.00	30.15	ug/L	1	20	0.0500	
Vinyl Acetate	2.1249	2.0166	30.00	28.47	ug/L	-5	30	0.0500	
1,1-Dichloroethane	1.5254	1.4231	30.00	27.99	ug/L	-7	20	0.1000	
2-Butanone	0.7598	0.7155	30.00	28.25	ug/L	-6	30	0.0500	
2,2-Dichloropropane	0.7592	0.7688	30.00	30.38	ug/L	1	20	0.0500	
cis-1,2-Dichloroethene	0.8178	0.8007	30.00	29.37	ug/L	-2	20	0.0500	
Chloroform	1.3164	1.2235	30.00	27.88	ug/L	-7	20	0.0500	
Bromochloromethane	0.4270	0.4063	30.00	28.54	ug/L	-5	20	0.0500	
1,1,1-Trichloroethane	0.8226	0.7712	30.00	28.13	ug/L	-6	20	0.0500	
1,1-Dichloropropene	0.5549	0.5597	30.00	30.26	ug/L	1	20	0.0500	
Carbon Tetrachloride	0.3947	0.3833	30.00	29.14	ug/L	-3	20	0.0500	
1,2-Dichloroethane	0.6038	0.5509	30.00	27.37	ug/L	-9	20	0.0500	
Benzene	1.7264	1.7844	30.00	31.01	ug/L	3	20	0.0500	
Trichloroethene	0.4014	0.4333	30.00	32.38	ug/L	8	20	0.0500	
1,2-Dichloropropane	0.5501	0.5452	30.00	29.73	ug/L	-1	20	0.0500	
Bromodichloromethane	0.5878	0.5929	30.00	30.26	ug/L	1	20	0.0500	
Dibromomethane	0.3247	0.3270	30.00	30.21	ug/L	1	20	0.0500	
4-Methyl-2-Pentanone	0.8201	0.8071	30.00	29.52	ug/L	-2	30	0.0500	
cis-1,3-Dichloropropene	0.7342	0.7756	30.00	31.69	ug/L	6	20	0.0500	
Toluene	0.9434	0.9981	30.00	31.74	ug/L	6	20	0.0500	
trans-1,3-Dichloropropene	0.6310	0.6509	30.00	30.95	ug/L	3	20	0.0500	
1,1,2-Trichloroethane	0.2433	0.2357	30.00	29.06	ug/L	-3	20	0.0500	
2-Hexanone	0.7153	0.7208	30.00	30.23	ug/L	1	30	0.0500	
1,3-Dichloropropane	0.8093	0.8369	30.00	31.02	ug/L	3	20	0.0500	
Tetrachloroethene	0.4082	0.4766	30.00	35.03	ug/L	17	20	0.0500	
Dibromochloromethane	0.5518	0.5479	30.00	29.79	ug/L	-1	20	0.0500	
1,2-Dibromoethane	0.4624	0.4558	30.00	29.57	ug/L	-1	20	0.0500	
Chlorobenzene	1.1788	1.2293	30.00	31.28	ug/L	4	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4424	0.4375	30.00	29.67	ug/L	-1	20	0.0500	
Ethylbenzene	1.9770	2.0813	30.00	31.58	ug/L	5	20	0.0500	
m,p-Xylenes	0.7031	0.7530	60.00	64.26	ug/L	7	20	0.0500	
o-Xylene	0.7082	0.7629	30.00	32.32	ug/L	8	20	0.0500	
Styrene	1.2529	1.3580	30.00	32.52	ug/L	8	20	0.0500	
Bromoform	0.3993	0.4341	30.00	32.62	ug/L	9	20	0.1000	
Isopropylbenzene	3.4828	3.1810	30.00	27.40	ug/L	-9	20	0.0500	
1,1,2,2-Tetrachloroethane	1.5885	1.3688	30.00	25.85	ug/L	-14	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	1.2287	1.0447	30.00	25.51	ug/L	-15	20	0.0500	
Propylbenzene	4.6614	4.3928	30.00	28.27	ug/L	-6	20	0.0500	
Bromobenzene	1.0451	1.0865	30.00	31.19	ug/L	4	20	0.0500	
1,3,5-Trimethylbenzene	2.9759	2.7455	30.00	27.68	ug/L	-8	20	0.0500	
2-Chlorotoluene	3.1277	2.9800	30.00	28.58	ug/L	-5	20	0.0500	
4-Chlorotoluene	2.9473	2.8985	30.00	29.50	ug/L	-2	20	0.0500	
tert-Butylbenzene	2.4206	2.2783	30.00	28.24	ug/L	-6	20	0.0500	
1,2,4-Trimethylbenzene	2.9758	2.9639	30.00	29.88	ug/L	0	20	0.0500	
sec-Butylbenzene	3.9496	3.7166	30.00	28.23	ug/L	-6	20	0.0500	
para-Isopropyl Toluene	3.0206	2.9374	30.00	29.17	ug/L	-3	20	0.0500	
1,3-Dichlorobenzene	1.8429	1.9596	30.00	31.90	ug/L	6	20	0.0500	
1,4-Dichlorobenzene	1.8642	2.0009	30.00	32.20	ug/L	7	20	0.0500	
n-Butylbenzene	3.0804	3.1208	30.00	30.39	ug/L	1	20	0.0500	
1,2-Dichlorobenzene	1.7857	1.8871	30.00	31.70	ug/L	6	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2976	0.2478	30.00	24.98	ug/L	-17	20	0.0500	
1,2,4-Trichlorobenzene	1.0241	1.2379	30.00	36.26	ug/L	**21**	20	0.0500	c+ ***
Hexachlorobutadiene	0.5630	0.6006	30.00	32.01	ug/L	7	20	0.0500	
Naphthalene	2.7354	2.6466	30.00	29.03	ug/L	-3	20	0.0500	
1,2,3-Trichlorobenzene	1.0163	1.1561	30.00	34.13	ug/L	14	20	0.0500	
Dibromofluoromethane	0.6494	0.5777	50.00	44.48	ug/L	-11	20	0.0500	
1,2-Dichloroethane-d4	0.3563	0.3497	50.00	49.07	ug/L	-2	20	0.0500	
Trifluorotoluene	0.5673	0.6353	30.00	33.59	ug/L	12	20	0.0500	
Toluene-d8	1.0288	1.0653	50.00	51.78	ug/L	4	20	0.0500	
Bromofluorobenzene	1.1047	0.9821	50.00	44.45	ug/L	-11	20	0.0500	

ISTD (ICAL fju16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	647926	605442	-6.56	11.95	11.96	0.02
1,4-Difluorobenzene	1140261	982478	-13.84	13.26	13.27	0.02
Chlorobenzene-d5	1005164	852674	-15.17	17.97	17.99	0.02
1,4-Dichlorobenzene-d4	467848	466905	-0.20	20.83	20.83	0.00

Analyst: WNH Date: 11/07/07 Reviewer: LW Date: 11/08/07

+=high bias c=CCV

457439660012.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : 25PPB IDF : 1.0
Seqnum : 457446854005.1 File : fk605 Time : 06-NOV-2007 09:28
Cal : 457437048001 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (20000X), S7403 (20000X), S7444 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5677	0.6598	25.00	29.06	ug/L	16	20	0.0500	
Chloromethane	1.0774	1.1426	25.00	26.51	ug/L	6	20	0.1000	
Vinyl Chloride	0.8692	0.9010	25.00	25.91	ug/L	4	20	0.0500	
Bromomethane	0.3796	0.3736	25.00	24.61	ug/L	-2	20	0.0500	
Chloroethane	0.4249	0.4360	25.00	25.65	ug/L	3	20	0.0500	
Trichlorofluoromethane	0.8161	0.9550	25.00	29.25	ug/L	17	20	0.0500	
Acetone	0.5077	0.5575	25.00	27.45	ug/L	10	30	0.0500	
Freon 113	0.6874	0.7085	25.00	25.77	ug/L	3	20	0.0500	
1,1-Dichloroethene	0.5835	0.5882	25.00	25.20	ug/L	1	20	0.0500	
Methylene Chloride	0.8858	0.9279	25.00	26.19	ug/L	5	20	0.0500	
Carbon Disulfide	2.5954	2.4263	25.00	23.37	ug/L	-7	20	0.0500	
MTBE	2.2794	2.1165	25.00	23.21	ug/L	-7	20	0.0500	
trans-1,2-Dichloroethene	0.7223	0.7213	25.00	24.97	ug/L	0	20	0.0500	
Vinyl Acetate	2.1249	2.0832	25.00	24.51	ug/L	-2	30	0.0500	
1,1-Dichloroethane	1.5254	1.4022	25.00	22.98	ug/L	-8	20	0.1000	
2-Butanone	0.7598	0.7590	25.00	24.97	ug/L	0	30	0.0500	
2,2-Dichloropropane	0.7592	0.8259	25.00	27.20	ug/L	9	20	0.0500	
cis-1,2-Dichloroethene	0.8178	0.7868	25.00	24.05	ug/L	-4	20	0.0500	
Chloroform	1.3164	1.2297	25.00	23.35	ug/L	-7	20	0.0500	
Bromochloromethane	0.4270	0.3969	25.00	23.23	ug/L	-7	20	0.0500	
1,1,1-Trichloroethane	0.8226	0.8017	25.00	24.36	ug/L	-3	20	0.0500	
1,1-Dichloropropene	0.5549	0.5908	25.00	26.62	ug/L	6	20	0.0500	
Carbon Tetrachloride	0.3947	0.4137	25.00	26.21	ug/L	5	20	0.0500	
1,2-Dichloroethane	0.6038	0.5604	25.00	23.20	ug/L	-7	20	0.0500	
Benzene	1.7264	1.7364	25.00	25.15	ug/L	1	20	0.0500	
Trichloroethene	0.4014	0.4304	25.00	26.81	ug/L	7	20	0.0500	
1,2-Dichloropropane	0.5501	0.5326	25.00	24.20	ug/L	-3	20	0.0500	
Bromodichloromethane	0.5878	0.5674	25.00	24.13	ug/L	-3	20	0.0500	
Dibromomethane	0.3247	0.3129	25.00	24.09	ug/L	-4	20	0.0500	
4-Methyl-2-Pentanone	0.8201	0.8291	25.00	25.28	ug/L	1	30	0.0500	
cis-1,3-Dichloropropene	0.7342	0.7575	25.00	25.79	ug/L	3	20	0.0500	
Toluene	0.9434	0.9900	25.00	26.24	ug/L	5	20	0.0500	
trans-1,3-Dichloropropene	0.6310	0.6307	25.00	24.99	ug/L	0	20	0.0500	
1,1,2-Trichloroethane	0.2433	0.2342	25.00	24.06	ug/L	-4	20	0.0500	
2-Hexanone	0.7153	0.6885	25.00	24.06	ug/L	-4	30	0.0500	
1,3-Dichloropropane	0.8093	0.7604	25.00	23.49	ug/L	-6	20	0.0500	
Tetrachloroethene	0.4082	0.4829	25.00	29.58	ug/L	18	20	0.0500	
Dibromochloromethane	0.5518	0.5278	25.00	23.92	ug/L	-4	20	0.0500	
1,2-Dibromoethane	0.4624	0.4500	25.00	24.33	ug/L	-3	20	0.0500	
Chlorobenzene	1.1788	1.1909	25.00	25.26	ug/L	1	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4424	0.4193	25.00	23.70	ug/L	-5	20	0.0500	
Ethylbenzene	1.9770	2.0684	25.00	26.16	ug/L	5	20	0.0500	
m,p-Xylenes	0.7031	0.7271	50.00	51.71	ug/L	3	20	0.0500	
o-Xylene	0.7082	0.7312	25.00	25.81	ug/L	3	20	0.0500	
Styrene	1.2529	1.2834	25.00	25.61	ug/L	2	20	0.0500	
Bromoform	0.3993	0.4266	25.00	26.72	ug/L	7	20	0.1000	
Isopropylbenzene	3.4828	3.3627	25.00	24.14	ug/L	-3	20	0.0500	
1,1,2,2-Tetrachloroethane	1.5885	1.3961	25.00	21.97	ug/L	-12	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	1.2287	1.0705	25.00	21.78	ug/L	-13	20	0.0500	
Propylbenzene	4.6614	4.5610	25.00	24.46	ug/L	-2	20	0.0500	
Bromobenzene	1.0451	1.0799	25.00	25.83	ug/L	3	20	0.0500	
1,3,5-Trimethylbenzene	2.9759	2.9384	25.00	24.68	ug/L	-1	20	0.0500	
2-Chlorotoluene	3.1277	3.1143	25.00	24.89	ug/L	0	20	0.0500	
4-Chlorotoluene	2.9473	2.9216	25.00	24.78	ug/L	-1	20	0.0500	
tert-Butylbenzene	2.4206	2.3167	25.00	23.93	ug/L	-4	20	0.0500	
1,2,4-Trimethylbenzene	2.9758	2.9323	25.00	24.63	ug/L	-1	20	0.0500	
sec-Butylbenzene	3.9496	3.9624	25.00	25.08	ug/L	0	20	0.0500	
para-Isopropyl Toluene	3.0206	3.0669	25.00	25.38	ug/L	2	20	0.0500	
1,3-Dichlorobenzene	1.8429	1.9387	25.00	26.30	ug/L	5	20	0.0500	
1,4-Dichlorobenzene	1.8642	1.9904	25.00	26.69	ug/L	7	20	0.0500	
n-Butylbenzene	3.0804	3.1177	25.00	25.30	ug/L	1	20	0.0500	
1,2-Dichlorobenzene	1.7857	1.7997	25.00	25.20	ug/L	1	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2976	0.2421	25.00	20.34	ug/L	-19	20	0.0500	
1,2,4-Trichlorobenzene	1.0241	1.1865	25.00	28.96	ug/L	16	20	0.0500	
Hexachlorobutadiene	0.5630	0.6479	25.00	28.77	ug/L	15	20	0.0500	
Naphthalene	2.7354	2.4963	25.00	22.81	ug/L	-9	20	0.0500	
1,2,3-Trichlorobenzene	1.0163	1.1050	25.00	27.18	ug/L	9	20	0.0500	
Dibromofluoromethane	0.6494	0.5751	50.00	44.28	ug/L	-11	20	0.0500	
1,2-Dichloroethane-d4	0.3563	0.3561	50.00	49.96	ug/L	0	20	0.0500	
Trifluorotoluene	0.5673	0.6655	25.00	29.32	ug/L	17	20	0.0500	
Toluene-d8	1.0288	1.0633	50.00	51.68	ug/L	3	20	0.0500	
Bromofluorobenzene	1.1047	1.0068	50.00	45.57	ug/L	-9	20	0.0500	

ISTD (ICAL fju16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	647926	782820	20.82	11.95	11.97	0.03
1,4-Difluorobenzene	1140261	1282508	12.47	13.26	13.28	0.03
Chlorobenzene-d5	1005164	1133650	12.78	17.97	17.98	0.01
1,4-Dichlorobenzene-d4	467848	598207	27.86	20.83	20.83	0.00

Analyst: BO Date: 11/07/07 Reviewer: JCP Date: 11/07/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : 30PPB IDF : 1.0
Seqnum : 887441238002.1 File : lk202 Time : 02-NOV-2007 10:25
Cal : 887436786002 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (16670X), S7531 (16670X), S7365 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7323	0.7405	30.00	30.34	ug/L	1	20	0.0500	
Chloromethane	1.3186	1.3999	30.00	31.85	ug/L	6	20	0.1000	
Vinyl Chloride	1.3475	1.4331	30.00	31.91	ug/L	6	20	0.0500	
Bromomethane	0.7740	0.7782	30.00	30.16	ug/L	1	20	0.0500	
Chloroethane	0.8304	0.8389	30.00	30.31	ug/L	1	20	0.0500	
Trichlorofluoromethane	1.6659	1.3107	30.00	23.60	ug/L	**-21**	20	0.0500	c- ***
Acetone	0.2309	0.2940	30.00	38.19	ug/L	27	30	0.0500	m
Freon 113	0.8077	0.6943	30.00	25.79	ug/L	-14	20	0.0500	
1,1-Dichloroethene	0.6106	0.5644	30.00	27.73	ug/L	-8	20	0.0500	
Methylene Chloride	0.7445	0.8153	30.00	32.85	ug/L	10	20	0.0500	
Carbon Disulfide	2.3687	2.4265	30.00	30.73	ug/L	2	20	0.0500	
MTBE	1.5979	1.8648	30.00	35.01	ug/L	17	20	0.0500	
trans-1,2-Dichloroethene	0.7025	0.7045	30.00	30.08	ug/L	0	20	0.0500	
Vinyl Acetate	0.9749	1.1300	30.00	31.89	ug/L	6	30	0.0500	
1,1-Dichloroethane	1.3587	1.3630	30.00	30.09	ug/L	0	20	0.1000	
2-Butanone	0.2902	0.3538	30.00	36.58	ug/L	22	30	0.0500	
2,2-Dichloropropane	1.0852	1.0527	30.00	29.10	ug/L	-3	20	0.0500	
cis-1,2-Dichloroethene	0.7219	0.7483	30.00	31.10	ug/L	4	20	0.0500	
Chloroform	1.2919	1.2171	30.00	28.26	ug/L	-6	20	0.0500	
Bromochloromethane	0.3404	0.3305	30.00	29.13	ug/L	-3	20	0.0500	
1,1,1-Trichloroethane	1.1594	1.0102	30.00	26.14	ug/L	-13	20	0.0500	
1,1-Dichloropropene	0.6507	0.6347	30.00	29.26	ug/L	-2	20	0.0500	
Carbon Tetrachloride	0.6894	0.5488	30.00	23.88	ug/L	-20	20	0.0500	
1,2-Dichloroethane	0.6203	0.5471	30.00	26.46	ug/L	-12	20	0.0500	
Benzene	2.1312	2.1374	30.00	30.09	ug/L	0	20	0.0500	
Trichloroethene	0.4801	0.4681	30.00	29.25	ug/L	-2	20	0.0500	
1,2-Dichloropropane	0.4922	0.5109	30.00	31.14	ug/L	4	20	0.0500	
Bromodichloromethane	0.6042	0.5525	30.00	27.43	ug/L	-9	20	0.0500	
Dibromomethane	0.2460	0.2331	30.00	28.43	ug/L	-5	20	0.0500	
4-Methyl-2-Pentanone	0.4361	0.5005	30.00	34.42	ug/L	15	30	0.0500	
cis-1,3-Dichloropropene	0.7228	0.7618	30.00	31.62	ug/L	5	20	0.0500	
Toluene	1.3878	1.4257	30.00	30.82	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.6312	0.6542	30.00	31.10	ug/L	4	20	0.0500	
1,1,2-Trichloroethane	0.2123	0.2181	30.00	30.82	ug/L	3	20	0.0500	
2-Hexanone	0.3214	0.3605	30.00	33.65	ug/L	12	30	0.0500	
1,3-Dichloropropane	0.7509	0.7461	30.00	29.81	ug/L	-1	20	0.0500	
Tetrachloroethene	0.6012	0.5195	30.00	25.92	ug/L	-14	20	0.0500	
Dibromochloromethane	0.4380	0.3649	30.00	24.99	ug/L	-17	20	0.0500	
1,2-Dibromoethane	0.3518	0.3573	30.00	30.47	ug/L	2	20	0.0500	
Chlorobenzene	1.6375	1.5493	30.00	28.38	ug/L	-5	20	0.3000	
1,1,1,2-Tetrachloroethane	0.5517	0.4674	30.00	25.41	ug/L	-15	20	0.0500	
Ethylbenzene	2.8669	2.8921	30.00	30.26	ug/L	1	20	0.0500	
m,p-Xylenes	1.1555	1.1788	60.00	61.21	ug/L	2	20	0.0500	
o-Xylene	1.0750	1.0980	30.00	30.64	ug/L	2	20	0.0500	
Styrene	1.7558	1.8097	30.00	30.92	ug/L	3	20	0.0500	
Bromoform	0.3304	0.2814	30.00	25.55	ug/L	-15	20	0.1000	
Isopropylbenzene	4.1123	4.5606	30.00	33.27	ug/L	11	20	0.0500	
1,1,2,2-Tetrachloroethane	0.9552	1.0473	30.00	32.89	ug/L	10	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9762	1.0484	30.00	32.22	ug/L	7	20	0.0500	
Propylbenzene	5.4966	6.1475	30.00	33.55	ug/L	12	20	0.0500	
Bromobenzene	1.0959	1.0594	30.00	29.00	ug/L	-3	20	0.0500	
1,3,5-Trimethylbenzene	3.8565	4.2471	30.00	33.04	ug/L	10	20	0.0500	
2-Chlorotoluene	3.7766	4.0099	30.00	31.85	ug/L	6	20	0.0500	
4-Chlorotoluene	3.2866	3.6340	30.00	33.17	ug/L	11	20	0.0500	
tert-Butylbenzene	3.3976	3.5999	30.00	31.79	ug/L	6	20	0.0500	
1,2,4-Trimethylbenzene	4.0055	4.3665	30.00	32.70	ug/L	9	20	0.0500	
sec-Butylbenzene	5.3176	5.7165	30.00	32.25	ug/L	8	20	0.0500	
para-Isopropyl Toluene	4.4774	4.8217	30.00	32.31	ug/L	8	20	0.0500	
1,3-Dichlorobenzene	2.3135	2.3204	30.00	30.09	ug/L	0	20	0.0500	
1,4-Dichlorobenzene	2.4155	2.4153	30.00	30.00	ug/L	0	20	0.0500	
n-Butylbenzene	4.3162	4.7759	30.00	33.20	ug/L	11	20	0.0500	
1,2-Dichlorobenzene	2.0963	2.1265	30.00	30.43	ug/L	1	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1863	0.1985	30.00	31.97	ug/L	7	20	0.0500	
1,2,4-Trichlorobenzene	1.4140	1.5453	30.00	32.79	ug/L	9	20	0.0500	
Hexachlorobutadiene	0.9848	0.9360	30.00	28.51	ug/L	-5	20	0.0500	
Naphthalene	2.9195	3.3532	30.00	31.94	ug/L	6	20	0.0500	
1,2,3-Trichlorobenzene	1.3774	1.4343	30.00	31.24	ug/L	4	20	0.0500	
Dibromofluoromethane	0.4644	0.4324	50.00	46.56	ug/L	-7	20	0.0500	
1,2-Dichloroethane-d4	0.3806	0.3363	50.00	44.18	ug/L	-12	20	0.0500	
Trifluorotoluene	0.8862	0.8535	30.00	28.89	ug/L	-4	20	0.0500	
Toluene-d8	1.2287	1.2626	50.00	51.38	ug/L	3	20	0.0500	
Bromofluorobenzene	0.8298	0.9376	50.00	56.49	ug/L	13	20	0.0500	

ISTD (ICAL lju18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	382859	330304	-13.73	9.86	9.85	-0.01
1,4-Difluorobenzene	557566	502179	-9.93	10.71	10.71	0.00
Chlorobenzene-d5	546470	507882	-7.06	13.84	13.84	0.00
1,4-Dichlorobenzene-d4	381863	323766	-15.21	16.35	16.35	0.00

Analyst: WNH Date: 11/06/07 Reviewer: JCP Date: 11/06/07

-=low bias c=CCV m=manual integration

887441238002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : 35PPB IDF : 1.0
Seqnum : 887445431007.1 File : lk507 Time : 05-NOV-2007 12:29
Cal : 887436786002 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (14290X), S7531 (14290X), S7365 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7323	0.7704	35.00	36.82	ug/L	5	20	0.0500	
Chloromethane	1.3186	1.4160	35.00	37.58	ug/L	7	20	0.1000	
Vinyl Chloride	1.3475	1.4722	35.00	38.24	ug/L	9	20	0.0500	
Bromomethane	0.7740	0.7813	35.00	35.33	ug/L	1	20	0.0500	
Chloroethane	0.8304	0.8993	35.00	37.90	ug/L	8	20	0.0500	
Trichlorofluoromethane	1.6659	1.4219	35.00	29.87	ug/L	-15	20	0.0500	
Acetone	0.2309	0.2330	35.00	35.32	ug/L	1	30	0.0500	
Freon 113	0.8077	0.7642	35.00	33.11	ug/L	-5	20	0.0500	
1,1-Dichloroethene	0.6106	0.6220	35.00	35.65	ug/L	2	20	0.0500	
Methylene Chloride	0.7445	0.9340	35.00	43.91	ug/L	**25**	20	0.0500	c+ ***
Carbon Disulfide	2.3687	2.5772	35.00	38.08	ug/L	9	20	0.0500	
MTBE	1.5979	1.9283	35.00	42.24	ug/L	**21**	20	0.0500	c+ ***
trans-1,2-Dichloroethene	0.7025	0.7472	35.00	37.22	ug/L	6	20	0.0500	
Vinyl Acetate	0.9749	1.1875	35.00	38.36	ug/L	10	30	0.0500	
1,1-Dichloroethane	1.3587	1.4202	35.00	36.58	ug/L	5	20	0.1000	
2-Butanone	0.2902	0.3440	35.00	41.50	ug/L	19	30	0.0500	
2,2-Dichloropropane	1.0852	1.1101	35.00	35.80	ug/L	2	20	0.0500	
cis-1,2-Dichloroethene	0.7219	0.7830	35.00	37.96	ug/L	8	20	0.0500	
Chloroform	1.2919	1.2537	35.00	33.97	ug/L	-3	20	0.0500	
Bromochloromethane	0.3404	0.3419	35.00	35.16	ug/L	0	20	0.0500	
1,1,1-Trichloroethane	1.1594	1.0764	35.00	32.49	ug/L	-7	20	0.0500	
1,1-Dichloropropene	0.6507	0.6949	35.00	37.38	ug/L	7	20	0.0500	
Carbon Tetrachloride	0.6894	0.5935	35.00	30.13	ug/L	-14	20	0.0500	
1,2-Dichloroethane	0.6203	0.5583	35.00	31.50	ug/L	-10	20	0.0500	
Benzene	2.1312	2.2252	35.00	36.54	ug/L	4	20	0.0500	
Trichloroethene	0.4801	0.4986	35.00	36.35	ug/L	4	20	0.0500	
1,2-Dichloropropane	0.4922	0.5318	35.00	37.81	ug/L	8	20	0.0500	
Bromodichloromethane	0.6042	0.5707	35.00	33.06	ug/L	-6	20	0.0500	
Dibromomethane	0.2460	0.2376	35.00	33.80	ug/L	-3	20	0.0500	
4-Methyl-2-Pentanone	0.4361	0.5078	35.00	40.76	ug/L	16	30	0.0500	
cis-1,3-Dichloropropene	0.7228	0.7906	35.00	38.28	ug/L	9	20	0.0500	
Toluene	1.3878	1.4693	35.00	37.06	ug/L	6	20	0.0500	
trans-1,3-Dichloropropene	0.6312	0.6792	35.00	37.66	ug/L	8	20	0.0500	
1,1,2-Trichloroethane	0.2123	0.2250	35.00	37.09	ug/L	6	20	0.0500	
2-Hexanone	0.3214	0.3819	35.00	41.59	ug/L	19	30	0.0500	
1,3-Dichloropropane	0.7509	0.7948	35.00	37.04	ug/L	6	20	0.0500	
Tetrachloroethene	0.6012	0.5625	35.00	32.75	ug/L	-6	20	0.0500	
Dibromochloromethane	0.4380	0.4024	35.00	32.16	ug/L	-8	20	0.0500	
1,2-Dibromoethane	0.3518	0.3691	35.00	36.72	ug/L	5	20	0.0500	
Chlorobenzene	1.6375	1.6575	35.00	35.43	ug/L	1	20	0.3000	
1,1,1,2-Tetrachloroethane	0.5517	0.5059	35.00	32.09	ug/L	-8	20	0.0500	
Ethylbenzene	2.8669	3.0967	35.00	37.81	ug/L	8	20	0.0500	
m,p-Xylenes	1.1555	1.2708	70.00	76.98	ug/L	10	20	0.0500	
o-Xylene	1.0750	1.2037	35.00	39.19	ug/L	12	20	0.0500	
Styrene	1.7558	1.9465	35.00	38.80	ug/L	11	20	0.0500	
Bromoform	0.3304	0.3133	35.00	33.19	ug/L	-5	20	0.1000	
Isopropylbenzene	4.1123	5.0133	35.00	42.67	ug/L	**22**	20	0.0500	c+ ***
1,1,2,2-Tetrachloroethane	0.9552	1.1253	35.00	41.23	ug/L	18	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9762	1.1246	35.00	40.32	ug/L	15	20	0.0500	
Propylbenzene	5.4966	6.6623	35.00	42.42	ug/L	**21**	20	0.0500	c+ ***
Bromobenzene	1.0959	1.1355	35.00	36.27	ug/L	4	20	0.0500	
1,3,5-Trimethylbenzene	3.8565	4.6059	35.00	41.80	ug/L	19	20	0.0500	
2-Chlorotoluene	3.7766	4.2906	35.00	39.76	ug/L	14	20	0.0500	
4-Chlorotoluene	3.2866	3.8442	35.00	40.94	ug/L	17	20	0.0500	
tert-Butylbenzene	3.3976	4.0231	35.00	41.44	ug/L	18	20	0.0500	
1,2,4-Trimethylbenzene	4.0055	4.6788	35.00	40.88	ug/L	17	20	0.0500	
sec-Butylbenzene	5.3176	6.3328	35.00	41.68	ug/L	19	20	0.0500	
para-Isopropyl Toluene	4.4774	5.2477	35.00	41.02	ug/L	17	20	0.0500	
1,3-Dichlorobenzene	2.3135	2.4548	35.00	37.14	ug/L	6	20	0.0500	
1,4-Dichlorobenzene	2.4155	2.5117	35.00	36.39	ug/L	4	20	0.0500	
n-Butylbenzene	4.3162	5.1733	35.00	41.95	ug/L	20	20	0.0500	
1,2-Dichlorobenzene	2.0963	2.2382	35.00	37.37	ug/L	7	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1863	0.2252	35.00	42.31	ug/L	**21**	20	0.0500	c+ ***
1,2,4-Trichlorobenzene	1.4140	1.6125	35.00	39.91	ug/L	14	20	0.0500	
Hexachlorobutadiene	0.9848	1.0439	35.00	37.10	ug/L	6	20	0.0500	
Naphthalene	2.9195	3.7148	35.00	40.32	ug/L	15	20	0.0500	
1,2,3-Trichlorobenzene	1.3774	1.5028	35.00	38.19	ug/L	9	20	0.0500	
Dibromofluoromethane	0.4644	0.4270	50.00	45.98	ug/L	-8	20	0.0500	
1,2-Dichloroethane-d4	0.3806	0.3411	50.00	44.81	ug/L	-10	20	0.0500	
Trifluorotoluene	0.8862	0.9051	35.00	35.75	ug/L	2	20	0.0500	
Toluene-d8	1.2287	1.2363	50.00	50.31	ug/L	1	20	0.0500	
Bromofluorobenzene	0.8298	0.9276	50.00	55.89	ug/L	12	20	0.0500	

ISTD (ICAL lju18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	382859	352575	-7.91	9.86	9.86	0.00
1,4-Difluorobenzene	557566	534622	-4.12	10.71	10.71	0.00
Chlorobenzene-d5	546470	520798	-4.70	13.84	13.84	0.00
1,4-Dichlorobenzene-d4	381863	330686	-13.40	16.35	16.35	0.00

Analyst: WNH Date: 11/06/07 Reviewer: JCP Date: 11/06/07

+=high bias c=CCV

887445431007.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 457438226

Date : 10/31/07 Reference : fju16
Sequence : MSVOA06 fjv Analyzed : 10/30/07 19:40

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	647926	11.95	1140261	13.26	1005164	17.97	467848	20.83
		LOWER LIMIT	323963	11.45	570131	12.76	502582	17.47	233924	20.33
		UPPER LIMIT	1295852	12.45	2280522	13.76	2010328	18.47	935696	21.33
004	CCV/LCS	QC413044	821377	11.94	1377552	13.25	1226268	17.97	618790	20.82
006	BLANK	QC413045	842217	11.94	1461195	13.25	1250973	17.98	652289	20.83
007	SAMPLE	198764-001	892830	11.95	1574128	13.26	1385245	17.98	717491	20.82
008	SAMPLE	198764-002	885542	11.94	1568809	13.25	1358071	17.98	708172	20.83
009	MSS	198764-003	914062	11.94	1630321	13.25	1477831	17.97	726132	20.83
010	SAMPLE	198764-004	920921	11.95	1612842	13.26	1483262	17.98	736603	20.82
011	SAMPLE	198764-005	925325	11.95	1661044	13.26	1512441	17.98	715896	20.82
012	SAMPLE	198764-006	966208	11.94	1744473	13.25	1521811	17.98	729810	20.83
013	SAMPLE	198759-001	937736	11.94	1656849	13.25	1486602	17.98	742397	20.83
014	SAMPLE	198729-003	902395	11.94	1586541	13.25	1433076	17.97	728520	20.83
015	SAMPLE	198818-010	965549	11.94	1721056	13.26	1471714	17.98	659036	20.83
016	SAMPLE	198818-003	1085391	11.94	2040127	13.25	2024141 *	17.98	1074214 *	20.83
017	SAMPLE	198818-005	961973	11.95	1788353	13.26	1551976	17.98	790614	20.83
018	SAMPLE	198818-007	979878	11.94	1815710	13.25	1601863	17.98	784349	20.83
019	SAMPLE	198818-001	830506	11.96	1896969	13.26	1415578	17.99	832124	20.83
020	SAMPLE	198818-006	1027194	11.94	1815586	13.25	1541043	17.98	850323	20.83
021	SAMPLE	198818-002	456591	11.96	1628669	13.26	1099029	17.99	688458	20.83
022	MS	QC413046	1052511	11.95	1777558	13.25	1580167	17.98	835261	20.83
023	MSD	QC413047	983024	11.94	1692597	13.25	1536767	17.98	834680	20.83

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 457439660

Date : 11/01/07
Sequence : MSVOA06 fk1

Reference : fju16
Analyzed : 10/30/07 19:40

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	647926	11.95	1140261	13.26	1005164	17.97	467848	20.83
		LOWER LIMIT	323963	11.45	570131	12.76	502582	17.47	233924	20.33
		UPPER LIMIT	1295852	12.45	2280522	13.76	2010328	18.47	935696	21.33
005	CCV	30PPB	498625	11.95	822035	13.26	734577	17.98	401902	20.82
006	LCS	QC413224	535738	11.94	856085	13.25	781118	17.98	493776	20.83
008	BLANK	QC413225	551896	11.94	877843	13.25	813555	17.98	443664	20.83
009	SAMPLE	198818-003	575889	11.95	943426	13.26	861488	17.98	466002	20.83
010	SAMPLE	198862-004	586348	11.95	971203	13.26	868318	17.98	456731	20.82
012	CCV	30PPB	605442	11.96	982478	13.27	852674	17.99	466905	20.83
014	BLANK	QC413263	590615	11.95	940083	13.26	850886	17.98	458459	20.84
015	MSS	198797-001	587741	11.95	992100	13.26	886834	17.98	474010	20.84
016	SAMPLE	198797-002	597011	11.94	978412	13.27	888790	17.98	467460	20.83
017	SAMPLE	198797-003	599947	11.95	1005531	13.26	944307	17.98	466834	20.84
018	SAMPLE	198797-004	588958	11.95	988471	13.26	878578	17.98	466216	20.83
019	MSS	198797-005	598737	11.95	1057819	13.27	939520	17.99	486399	20.83
020	SAMPLE	198797-006	615260	11.96	1063621	13.27	927456	17.99	491798	20.83
021	SAMPLE	198797-007	628736	11.95	1077683	13.27	949501	17.98	487019	20.83
022	SAMPLE	198762-001	631832	11.95	1080175	13.26	990859	17.98	510214	20.84
023	SAMPLE	198829-007	653709	11.95	1125532	13.26	990109	17.99	503434	20.83
024	SAMPLE	198829-010	621784	11.95	1097545	13.26	932039	17.98	379716	20.83
025	SAMPLE	198829-015	637557	11.95	1072475	13.26	960469	17.99	495842	20.83
026	SAMPLE	198829-017	638512	11.94	1117071	13.26	989642	17.98	520097	20.83
027	SAMPLE	198829-001	638612	11.95	1089548	13.26	995430	17.98	504236	20.84
028	SAMPLE	198829-002	668806	11.95	1144293	13.26	999976	17.98	517527	20.83
029	SAMPLE	198829-003	644172	11.95	1141633	13.26	1023805	17.98	513312	20.84
030	MS	QC413239	677478	11.95	1174589	13.26	1045390	17.98	539761	20.83
031	MSD	QC413240	668199	11.95	1170476	13.27	1033199	17.98	557774	20.83
037	SAMPLE	198539-003	655707	11.95	1114739	13.26	977722	17.98	492647	20.83
038	SAMPLE	198539-004	689337	11.94	1175509	13.26	1021458	17.98	522935	20.83

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 457446854

Date : 11/06/07
Sequence : MSVOA06 fk6

Reference : fju16
Analyzed : 10/30/07 19:40

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	647926	11.95	1140261	13.26	1005164	17.97	467848	20.83
		LOWER LIMIT	323963	11.45	570131	12.76	502582	17.47	233924	20.33
		UPPER LIMIT	1295852	12.45	2280522	13.76	2010328	18.47	935696	21.33
005	CCV	25PPB	782820	11.97	1282508	13.28	1133650	17.98	598207	20.83
006	BS	QC413864	757856	11.94	1233082	13.26	1143279	17.98	701713	20.83
007	BSD	QC413865	749594	11.96	1210890	13.27	1054398	17.99	581331	20.84
009	BLANK	QC413866	776509	11.95	1228206	13.26	1084191	17.98	580609	20.84
010	SAMPLE	198982-001	803369	11.96	1333037	13.27	1216480	17.99	660654	20.84
011	SAMPLE	198818-002	820284	11.95	1310851	13.26	1185608	17.99	655535	20.84
012	SAMPLE	198982-002	817878	11.96	1349168	13.27	1233534	17.99	647851	20.84
013	SAMPLE	198982-003	827204	11.96	1323565	13.27	1203297	17.99	663400	20.84
014	SAMPLE	198982-004	825653	11.96	1364359	13.27	1207223	17.99	670052	20.84
015	SAMPLE	198881-006	806102	11.95	1323098	13.26	1187713	17.98	664369	20.84
016	SAMPLE	198881-008	816171	11.96	1309003	13.27	1203225	17.99	638775	20.83
017	SAMPLE	198881-010	797299	11.95	1307432	13.27	1177517	17.99	645880	20.84
018	SAMPLE	198881-007	858929	11.96	1372815	13.27	1225919	17.99	660160	20.84
019	SAMPLE	198908-002	829104	11.96	1284525	13.27	1145092	17.99	618951	20.84
020	SAMPLE	198908-003	813681	11.95	1315977	13.28	1169434	17.98	654966	20.83
021	SAMPLE	198908-006	808343	11.96	1285461	13.27	1143851	17.99	621104	20.84
022	SAMPLE	198881-012	848769	11.95	1330985	13.27	1167782	17.98	624374	20.84
023	SAMPLE	198881-017	804521	11.96	1293213	13.27	1168190	17.99	634963	20.83
024	MSD	QC413662	843364	11.95	1397908	13.26	1275579	17.98	676440	20.84
031	SAMPLE	198868-003	817200	11.96	1307371	13.27	1165588	17.99	593792	20.83
032	SAMPLE	198868-004	834942	11.95	1380233	13.26	1236132	17.98	653529	20.84

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 887441238

Date : 11/02/07
Sequence : MSVOA12 lk2

Reference : lju18
Analyzed : 10/30/07 19:51

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	382859	9.86	557566	10.71	546470	13.84	381863	16.35
		LOWER LIMIT	191430	9.36	278783	10.21	273235	13.34	190932	15.85
		UPPER LIMIT	765718	10.36	1115132	11.21	1092940	14.34	763726	16.85
002	CCV	30PPB	330304	9.85	502179	10.71	507882	13.84	323766	16.35
003	BS	QC413435	316152	9.86	474724	10.71	482364	13.84	311741	16.35
004	BSD	QC413436	312422	9.86	471472	10.71	474566	13.84	303165	16.35
006	BLANK	QC413434	295445	9.86	481341	10.71	498915	13.84	283335	16.35
007	SAMPLE	198685-002	235836	9.86	385997	10.71	422535	13.84	274081	16.35
009	SAMPLE	198778-002	385399	9.86	620051	10.71	642649	13.84	391378	16.35
010	SAMPLE	198880-002	353259	9.86	572576	10.71	594368	13.84	352114	16.35
011	SAMPLE	198880-001	296169	9.86	453546	10.71	541239	13.84	331020	16.35
012	SAMPLE	198818-006	271936	9.85	426049	10.71	511831	13.84	340076	16.35
013	SAMPLE	198818-001	311207	9.86	459217	10.71	545636	13.84	337585	16.34
014	SAMPLE	198818-002	293633	9.86	450617	10.71	539250	13.84	360339	16.34
016	PREPBLK	QC413524	368168	9.85	579859	10.71	596122	13.84	367904	16.35
017	SAMPLE	198778-001	361362	9.86	575917	10.71	597739	13.84	372200	16.35
018	SAMPLE	198829-001	379391	9.85	587157	10.71	620053	13.84	376909	16.35
019	SAMPLE	198889-001	371612	9.85	580087	10.71	595591	13.84	362049	16.35
020	MSS	198818-004	359174	9.86	566670	10.71	610273	13.84	368420	16.35
021	MS	QC413552	386967	9.86	613078	10.71	657249	13.84	389457	16.35
022	MSD	QC413553	425147	9.86	675548	10.71	691297	13.84	375787	16.35
024	SAMPLE	198889-002	194030	9.86	328644	10.71	336930	13.84	194183	16.35

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 887445431

Date : 11/05/07 Reference : lju18
Sequence : MSVOA12 lk5 Analyzed : 10/30/07 19:51

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	382859	9.86	557566	10.71	546470	13.84	381863	16.35
		LOWER LIMIT	191430	9.36	278783	10.21	273235	13.34	190932	15.85
		UPPER LIMIT	765718	10.36	1115132	11.21	1092940	14.34	763726	16.85
007	CCV	35PPB	352575	9.86	534622	10.71	520798	13.84	330686	16.35
008	LCS	QC413654	364068	9.85	556993	10.71	531118	13.84	331348	16.35
010	BLANK	QC413653	307517	9.86	489154	10.71	488382	13.84	282687	16.35
011	PREPBLK	QC413782	298509	9.85	465498	10.71	476380	13.84	296963	16.35
012	SAMPLE	198889-001	309867	9.86	515342	10.71	490495	13.84	278578	16.34
013	SAMPLE	198797-005	280113	9.85	441140	10.71	469843	13.84	304201	16.35
014	SAMPLE	198797-006	271241	9.85	418015	10.71	434155	13.84	284048	16.35
015	SAMPLE	198797-007	259072	9.85	384707	10.71	425291	13.84	297182	16.35
016	SAMPLE	198818-001	296120	9.86	450946	10.71	512329	13.84	322318	16.35
017	SAMPLE	198880-001	336423	9.86	528157	10.71	611314	13.84	346777	16.35
018	SAMPLE	198818-002	378767	9.86	594309	10.71	623017	13.84	364768	16.35
019	SAMPLE	198843-002	381252	9.86	611722	10.71	604252	13.84	363606	16.34
020	MSS	198889-001	390037	9.86	636791	10.71	601132	13.84	340256	16.35
021	SAMPLE	198881-017	550032	9.86	898854	10.71	1013753	13.84	1154983 *	16.36
022	SAMPLE	198908-009	551483	9.86	863985	10.71	817186	13.84	517434	16.35
023	SAMPLE	198908-010	490975	9.86	785313	10.71	807578	13.84	493935	16.35
024	SAMPLE	198908-011	547727	9.86	898112	10.71	851521	13.84	502516	16.35
025	MS	QC413789	471004	9.86	733190	10.71	687541	13.84	402606	16.35
026	MSD	QC413790	556148	9.86	874692	10.71	824503	13.84	477863	16.35

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457437048

Instrument : MSVOA06
Method : EPA 8260B

Begun : 10/30/07 12:08
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	fju01	X	IB			10/30/07 12:08	1.0	1
002	fju02	TUN	BFB			10/30/07 12:42	1.0	2
003	fju03	CCV	20PPB			10/30/07 12:59	1.0	3 4 1
004	fju04	TUN	BFB			10/30/07 14:16	1.0	2
005	fju05	TUN	BFB			10/30/07 14:35	1.0	2
006	fju06	TUN	BFB			10/30/07 14:49	1.0	2
007	fju07	TUN	BFB			10/30/07 15:02	1.0	2
008	fju08	TUN	BFB			10/30/07 15:16	1.0	2
009	fju09	X	IB			10/30/07 15:35	1.0	1
010	fju10	X	IB			10/30/07 16:10	1.0	1
011	fju11	IB	CALIB IB			10/30/07 16:45	1.0	1
012	fju12	ICAL	2.5PPB			10/30/07 17:19	1.0	5 6 1
013	fju13	ICAL	5PPB			10/30/07 17:54	1.0	5 6 1
014	fju14	ICAL	10PPB			10/30/07 18:30	1.0	5 6 1
015	fju15	ICAL	20PPB			10/30/07 19:05	1.0	3 7 1
016	fju16	ICAL	50PPB			10/30/07 19:40	1.0	3 7 1
017	fju17	ICAL	60PPB			10/30/07 20:15	1.0	3 7 1
018	fju18	ICAL	75PPB			10/30/07 20:50	1.0	3 7 1
019	fju19	ICAL	100PPB			10/30/07 21:24	1.0	3 7 1
020	fju20	ICV	25PPB			10/30/07 21:59	1.0	8 1
021	fju21	ICV	25PPB			10/30/07 22:34	1.0	9 10 1
022	fju22	X	IB			10/30/07 23:09	1.0	1
023	fju23	X	IB			10/30/07 23:44	1.0	1

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7424 6=S7425 7=S7531 8=S7415 9=S7480 10=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457438226

Instrument : MSVOA06
Method : EPA 8260B

Begun : 10/31/07 07:46
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fjv01	X	IB			10/31/07 07:46	1.0	1	
002	fjv02	TUN	BFB			10/31/07 08:23	1.0	2	
003	fjv03	X	20PPB			10/31/07 08:40	1.0	3 4 1	
004	fjv04	CCV/LCS	QC413044	Soil	131141	10/31/07 09:15	1.0	5 6 7 1	
005	fjv05	X	IB			10/31/07 09:55	1.0	1	
006	fjv06	BLANK	QC413045	Soil	131141	10/31/07 10:29	1.0	1	
007	fjv07	SAMPLE	198764-001	Soil	131141	10/31/07 11:04	0.8333	1	
008	fjv08	SAMPLE	198764-002	Soil	131141	10/31/07 11:38	1.02	1	
009	fjv09	MSS	198764-003	Soil	131141	10/31/07 12:13	0.9259	1	
010	fjv10	SAMPLE	198764-004	Soil	131141	10/31/07 12:47	1.316	1	
011	fjv11	SAMPLE	198764-005	Soil	131141	10/31/07 13:22	2.500	1	
012	fjv12	SAMPLE	198764-006	Soil	131141	10/31/07 13:57	0.8772	1	1:TCE=180
013	fjv13	SAMPLE	198759-001	Soil	131141	10/31/07 14:31	0.9615	1	
014	fjv14	SAMPLE	198729-003	Soil	131141	10/31/07 15:06	0.9804	1	
015	fjv15	SAMPLE	198818-010	Soil	131141	10/31/07 15:41	0.9615	1	
016	fjv16	SAMPLE	198818-003	Soil	131141	10/31/07 16:19	0.8333	1	
017	fjv17	SAMPLE	198818-005	Soil	131141	10/31/07 16:53	1.471	1	
018	fjv18	SAMPLE	198818-007	Soil	131141	10/31/07 17:28	1.563	1	
019	fjv19	SAMPLE	198818-001	Soil	131141	10/31/07 18:03	0.8929	1	3:TCA112=470
020	fjv20	SAMPLE	198818-006	Soil	131141	10/31/07 18:37	0.8621	1	1:TCA112=260
021	fjv21	SAMPLE	198818-002	Soil	131141	10/31/07 19:12	1.0	1	6:M4THF=1100
022	fjv22	MS	QC413046	Soil	131141	10/31/07 19:46	0.8772	5 6 7 1	
023	fjv23	MSD	QC413047	Soil	131141	10/31/07 20:21	0.9091	5 6 7 1	
024	fjv24	X	IB			10/31/07 20:56	1.0	1	
025	fjv25	X	IB			10/31/07 21:31	1.0	1	
026	fjv26	X	IB			10/31/07 22:06	1.0	1	
027	fjv27	X	6A			10/31/07 22:41	1.0	1	
028	fjv28	X	6B			10/31/07 23:15	1.0	1	

Analyst: BO Date: 11/01/07 Reviewer: LW Date: 11/01/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7480 6=S7415 7=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457439660

Instrument : MSVOA06
Method : EPA 8260B

Begun : 11/01/07 07:40
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fk101	X	IB			11/01/07 07:40	1.0	1	
002	fk102	X	BFB			11/01/07 08:12	1.0	2	
003	fk103	X	30PPB			11/01/07 08:28	1.0	3 4 1	
004	fk104	TUN	BFB			11/01/07 09:15	1.0	2	
005	fk105	CCV	30PPB			11/01/07 09:32	1.0	3 4 1	
006	fk106	LCS	QC413224	Soil	131189	11/01/07 10:19	1.0	5 6 7 1	
007	fk107	X	IB			11/01/07 10:53	1.0	1	
008	fk108	BLANK	QC413225	Soil	131189	11/01/07 11:28	1.0	1	
009	fk109	SAMPLE	198818-003	Soil	131189	11/01/07 12:04	0.8621	1	
010	fk110	SAMPLE	198862-004	Soil	131189	11/01/07 12:38	1.0	1	
011	fk111	TUN	BFB			11/01/07 13:11	1.0	2	
012	fk112	CCV	30PPB			11/01/07 13:28	1.0	1 3 4	
013	fk113	X	IB			11/01/07 14:04	1.0	1	
014	fk114	BLANK	QC413263	Soil	131189	11/01/07 14:39	1.0	1	
015	fk115	MSS	198797-001	Soil	131189	11/01/07 15:14	0.9615	1	
016	fk116	SAMPLE	198797-002	Soil	131189	11/01/07 15:49	1.0	1	
017	fk117	SAMPLE	198797-003	Soil	131189	11/01/07 16:24	0.9091	1	
018	fk118	SAMPLE	198797-004	Soil	131189	11/01/07 16:59	0.9091	1	
019	fk119	MSS	198797-005	Soil	131189	11/01/07 17:34	0.9615	1	3:TCE=840
020	fk120	SAMPLE	198797-006	Soil	131189	11/01/07 18:08	0.8929	1	3:DCA12=1100
021	fk121	SAMPLE	198797-007	Soil	131189	11/01/07 18:43	1.0	1	3:DCA12=1300
022	fk122	SAMPLE	198762-001	Soil	131189	11/01/07 19:18	1.0	1	
023	fk123	SAMPLE	198829-007	Soil	131189	11/01/07 19:53	0.9615	1	
024	fk124	SAMPLE	198829-010	Soil	131189	11/01/07 20:28	1.351	1	
025	fk125	SAMPLE	198829-015	Soil	131189	11/01/07 21:02	1.471	1	
026	fk126	SAMPLE	198829-017	Soil	131189	11/01/07 21:37	1.0	1	
027	fk127	SAMPLE	198829-001	Soil	131189	11/01/07 22:12	1.25	1	2:ACE=1200
028	fk128	SAMPLE	198829-002	Soil	131189	11/01/07 22:47	1.471	1	
029	fk129	SAMPLE	198829-003	Soil	131189	11/01/07 23:21	0.8929	1	
030	fk130	MS	QC413239	Soil	131189	11/01/07 23:56	0.9615	5 6 7 1	3:TCE=830
031	fk131	MSD	QC413240	Soil	131189	11/02/07 00:31	0.9615	5 6 7 1	3:TCE=840
032	fk132	X	IB4			11/02/07 01:06	1.0	1	
033	fk133	X	IB5			11/02/07 01:40	1.0	1	
034	fk134	X	IB6			11/02/07 02:15	1.0	1	
035	fk135	X	6A			11/02/07 02:50	1.0	1	
036	fk136	X	6B			11/02/07 03:25	1.0	1	
037	fk137	SAMPLE	198539-003	Soil	131189	11/02/07 04:00	1.0	1	
038	fk138	SAMPLE	198539-004	Soil	131189	11/02/07 04:34	1.0	1	
039	fk139	X	818-001			11/02/07 05:09	5000	1	
040	fk140	X	818-002			11/02/07 05:44	5000	1	
041	fk141	X	818-004			11/02/07 06:19	5000	1	
042	fk142	X	818-006			11/02/07 06:53	5000	1	
043	fk143	X	IB			11/02/07 07:28	1.0	1	

BO 11/02/07 : MSS >LR, cannot combine, report LCS only

Analyst: BO Date: 11/02/07 Reviewer: LW Date: 11/02/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7480 6=S7415 7=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457446854

Instrument : MSVOA06
Method : EPA 8260B

Begun : 11/06/07 07:34
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	fk601	X	IB				11/06/07 07:34	1.0	1
002	fk602	X	BFB				11/06/07 08:09	1.0	2
003	fk603	X	25PPB				11/06/07 08:26	1.0	3 4 1
004	fk604	TUN	BFB				11/06/07 09:11	1.0	2
005	fk605	CCV	25PPB				11/06/07 09:28	1.0	3 4 1
006	fk606	BS	QC413864		Soil	131351	11/06/07 10:16	1.0	5 6 7 1
007	fk607	BSD	QC413865		Soil	131351	11/06/07 10:50	1.0	5 6 7 1
008	fk608	X	IB				11/06/07 11:25	1.0	1
009	fk609	BLANK	QC413866		Soil	131351	11/06/07 11:59	1.0	1
010	fk610	SAMPLE	198982-001		Soil	131351	11/06/07 12:35	0.9615	1
011	fk611	SAMPLE	198818-002	M	Soil	131351	11/06/07 13:09	400.0	8 1
012	fk612	SAMPLE	198982-002		Soil	131351	11/06/07 13:44	0.8929	1
013	fk613	SAMPLE	198982-003		Soil	131351	11/06/07 14:19	1.136	1
014	fk614	SAMPLE	198982-004		Soil	131351	11/06/07 14:53	0.8475	1
015	fk615	SAMPLE	198881-006	M	Soil	131351	11/06/07 15:28	100.0	9 1
016	fk616	SAMPLE	198881-008	M	Soil	131351	11/06/07 16:03	200.0	9 1
017	fk617	SAMPLE	198881-010	M	Soil	131351	11/06/07 16:38	100.0	9 1
018	fk618	SAMPLE	198881-007	M	Soil	131351	11/06/07 17:13	1000	9 1
019	fk619	SAMPLE	198908-002	M	Soil	131351	11/06/07 17:47	500.0	9 1
020	fk620	SAMPLE	198908-003	M	Soil	131351	11/06/07 18:22	2500	9 1
021	fk621	SAMPLE	198908-006	M	Soil	131351	11/06/07 18:57	500.0	9 1
022	fk622	SAMPLE	198881-012	M	Soil	131351	11/06/07 19:32	1000	9 1
023	fk623	SAMPLE	198881-017	M	Soil	131351	11/06/07 20:06	5000	9 1
024	fk624	MSD	QC413662		Soil	131303	11/06/07 20:41	0.7937	5 6 7 1
025	fk625	X	QC413662		Soil	131303	11/06/07 21:16	0.7937	5 6 7 1
026	fk626	X	IB				11/06/07 21:51	1.0	1
027	fk627	X	IB				11/06/07 22:26	1.0	1
028	fk628	X	IB				11/06/07 23:00	1.0	1
029	fk629	X	6A				11/06/07 23:35	1.0	1
030	fk630	X	6B				11/07/07 00:10	1.0	1
031	fk631	SAMPLE	198868-003		Soil	131351	11/07/07 00:44	1.0	1
032	fk632	SAMPLE	198868-004		Soil	131351	11/07/07 01:19	1.0	1

Analyst: BO Date: 11/07/07 Reviewer: LW Date: 11/07/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7480 6=S7415 7=S7498 8=S7000 9=S7590

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887436786

Instrument : MSVOA12
Method : EPA 8260B

Begun : 10/30/07 07:46
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	lju01	X	IB			10/30/07 07:46	1.0	1
002	lju02	X	BFB			10/30/07 10:13	1.0	2
003	lju03	X	25PPB			10/30/07 10:42	1.0	3 4 1
004	lju04	X	QC412874	Soil	131099	10/30/07 11:23	1.0	5 6 7 8 1
005	lju05	X	QC412875	Soil	131099	10/30/07 11:55	1.0	5 6 7 8 1
006	lju06	X	BFB			10/30/07 12:56	1.0	2
007	lju07	X	30PPB			10/30/07 13:23	1.0	3 4 1
008	lju08	X	QC412874	Soil	131099	10/30/07 13:55	1.0	5 6 7 8 1
009	lju09	X	QC412875	Soil	131099	10/30/07 14:27	1.0	5 6 7 8 1
010	lju10	TUN	BFB			10/30/07 15:38	1.0	2
011	lju11	X	LP			10/30/07 16:05	1.0	1
012	lju12	X	IB			10/30/07 16:37	1.0	1
013	lju13	IB	CALIB			10/30/07 17:10	1.0	1
014	lju14	ICAL	2.5PPB			10/30/07 17:42	1.0	9 10 1
015	lju15	ICAL	5PPB			10/30/07 18:14	1.0	9 10 1
016	lju16	ICAL	10PPB			10/30/07 18:47	1.0	9 10 1
017	lju17	ICAL	20PPB			10/30/07 19:19	1.0	3 11 1
018	lju18	ICAL	50PPB			10/30/07 19:51	1.0	3 11 1
019	lju19	ICAL	60PPB			10/30/07 20:23	1.0	3 11 1
020	lju20	ICAL	75PPB			10/30/07 20:56	1.0	3 11 1
021	lju21	ICAL	100PPB			10/30/07 21:28	1.0	3 11 1
022	lju22	ICV	25PPB			10/30/07 22:01	1.0	6 1
023	lju23	ICV	25PPB			10/30/07 22:33	1.0	7 5 1
024	lju24	X	IB			10/30/07 23:05	1.0	1
025	lju25	X	IB			10/30/07 23:38	1.0	1
026	lju26	X	IB			10/31/07 00:10	1.0	1

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

Standards used: 1=S7365 2=S6497 3=S7417 4=S7296 5=S7480 6=S7415 7=S7498 8=S7000 9=S7425 10=S7424 11=S7531

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887441238

Instrument : MSVOA12
Method : EPA 8260B

Begun : 11/02/07 09:58
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	lk201	TUN	BFB				11/02/07 09:58	1.0	1
002	lk202	CCV	30PPB				11/02/07 10:25	1.0	2 3 4
003	lk203	BS	QC413435		Soil	131245	11/02/07 10:57	1.0	5 6 7 4
004	lk204	BSD	QC413436		Soil	131245	11/02/07 11:30	1.0	5 6 7 4
005	lk205	X	IB				11/02/07 12:02	1.0	4
006	lk206	BLANK	QC413434		Soil	131245	11/02/07 12:45	1.0	4
007	lk207	SAMPLE	198685-002	M	Oil	131245	11/02/07 13:17	20000	8 4
008	lk208	X	IB				11/02/07 13:49	1.0	4
009	lk209	SAMPLE	198778-002		Miscell.	131245	11/02/07 14:22	0.9434	4
010	lk210	SAMPLE	198880-002		Soil	131245	11/02/07 14:54	0.9804	4
011	lk211	SAMPLE	198880-001	M	Soil	131245	11/02/07 15:26	250.0	8 4
012	lk212	SAMPLE	198818-006	M	Soil	131245	11/02/07 15:59	25.0	8 4
013	lk213	SAMPLE	198818-001	M	Soil	131245	11/02/07 16:31	250.0	8 4
014	lk214	SAMPLE	198818-002	M	Soil	131245	11/02/07 17:03	400.0	8 4
015	lk215	X	IB				11/02/07 17:36	1.0	4
016	lk216	PREPBLK	QC413524	M	Soil	131245	11/02/07 18:08	25.0	9 4
017	lk217	SAMPLE	198778-001	M	Miscell.	131245	11/02/07 18:41	1250	8 4
018	lk218	SAMPLE	198829-001	M	Soil	131245	11/02/07 19:13	25.0	9 4
019	lk219	SAMPLE	198889-001	M	Miscell.	131245	11/02/07 19:45	25.0	9 4
020	lk220	MSS	198818-004	M	Soil	131245	11/02/07 20:18	500.0	9 4
021	lk221	MS	QC413552	M	Soil	131245	11/02/07 20:50	500.0	5 7 6 8 4
022	lk222	MSD	QC413553	M	Soil	131245	11/02/07 21:23	500.0	5 7 6 8 4
023	lk223	X	IB				11/02/07 21:55	1.0	4
024	lk224	SAMPLE	198889-002	M	Miscell.	131245	11/02/07 22:27	5000	9 4
025	lk225	X	IB				11/02/07 23:00	1.0	4
026	lk226	X	12A				11/02/07 23:32	1.0	4
027	lk227	X	12B				11/03/07 00:04	1.0	4
028	lk228	X	IB				11/03/07 00:37	1.0	4

Analyst: WNH Date: 11/05/07 Reviewer: LW Date: 11/05/07

Standards used: 1=S6497 2=S7417 3=S7531 4=S7365 5=S7480 6=S7415 7=S7498 8=S7000 9=S7590

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887445431

Instrument : MSVOA12
Method : EPA 8260B

Begun : 11/05/07 07:51
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	lk501	X	IB				11/05/07 07:51	1.0	1	
002	lk502	X	BFB				11/05/07 09:46	1.0	2	
003	lk503	X	35PPB				11/05/07 10:15	1.0	3 4 1	76:ETHANOL=650000
004	lk504	X	IB				11/05/07 10:47	1.0	1	
005	lk505	X	IB				11/05/07 11:20	1.0	1	
006	lk506	TUN	BFB				11/05/07 12:01	1.0	2	
007	lk507	CCV	35PPB				11/05/07 12:29	1.0	3 4 1	
008	lk508	LCS	QC413654		Soil	131304	11/05/07 13:33	1.0	5 6 7 1	
009	lk509	X	IB				11/05/07 14:06	1.0	1	
010	lk510	BLANK	QC413653		Soil	131304	11/05/07 14:38	1.0	1	
011	lk511	PREPBLK	QC413782	M	Soil	131304	11/05/07 15:10	25.0	8 1	
012	lk512	SAMPLE	198889-001		Miscell.	131304	11/05/07 15:43	2.500	1	
013	lk513	SAMPLE	198797-005	M	Soil	131304	11/05/07 16:15	25.0	8 1	
014	lk514	SAMPLE	198797-006	M	Soil	131304	11/05/07 16:47	33.33	8 1	
015	lk515	SAMPLE	198797-007	M	Soil	131304	11/05/07 17:20	62.50	8 1	
016	lk516	SAMPLE	198818-001	M	Soil	131304	11/05/07 17:52	200.0	8 1	
017	lk517	SAMPLE	198880-001	M	Soil	131304	11/05/07 18:25	250.0	8 1	
018	lk518	SAMPLE	198818-002	M	Soil	131304	11/05/07 18:57	400.0	8 1	
019	lk519	SAMPLE	198843-002	M	Soil	131304	11/05/07 19:30	625.0	8 1	
020	lk520	MSS	198889-001		Miscell.	131304	11/05/07 20:02	1.0	1	
021	lk521	SAMPLE	198881-017		Soil	131304	11/05/07 20:34	0.9434	1	1:PCA=210
022	lk522	SAMPLE	198908-009		Soil	131304	11/05/07 21:06	0.9259	1	
023	lk523	SAMPLE	198908-010		Soil	131304	11/05/07 21:39	0.9615	1	
024	lk524	SAMPLE	198908-011		Soil	131304	11/05/07 22:11	0.9259	1	
025	lk525	MS	QC413789		Miscell.	131304	11/05/07 22:44	1.0	5 7 6 1	1:MTLNCL=100
026	lk526	MSD	QC413790		Miscell.	131304	11/05/07 23:16	1.0	5 7 6 1	
027	lk527	X	IB				11/05/07 23:48	1.0	1	
028	lk528	X	12A				11/06/07 00:21	1.0	1	
029	lk529	X	12B				11/06/07 00:53	1.0	1	
030	lk530	X	IB				11/06/07 01:25	1.0	1	

WNH 11/05/07 : Sequence restarted at LK506 due to IS needing refill

WNH 11/06/07 : Changed LK512 to regular sample and LK520 to the MSS as the 1x rerun.

Analyst: WNH Date: 11/06/07 Reviewer: LW Date: 11/06/07

Standards used: 1=S7365 2=S6497 3=S7417 4=S7531 5=S7480 6=S7415 7=S7498 8=S7590

REPORTING SUMMARY FOR 198818 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF	F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H
					C	L	C	R	L	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C
					1	M		M	E	1	E	1	E	L	S	B	E		A	K	E	P	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	M	B	B	B	B	C	B	B
					2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M		Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	Z	P	1	U
198818-001	MSVOA06	N	10/31/07 18:03	0.8929									2					2					3						2			2			2		3	2		3																													2	3		2	2			2	3	3		
198818-001	MSVOA12	M	11/02/07 16:31	250.0																		

REPORTING SUMMARY FOR 198818 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF	
QC413061	MSVOA12	N	10/31/07 12:12	1.0	
QC413078	MSVOA12	M	10/31/07 12:44	25.0	
QC413079	MSVOA12	M	10/31/07 13:17	25.0	
QC413136	MSVOA12	M	10/31/07 17:35	25.0	
QC413168	MSVOA12	N	10/31/07 21:53	1.02	
QC413169	MSVOA12	N	10/31/07 22:25	0.8772	
QC413224	MSVOA06	N	11/01/07 10:19	1.0	
QC413225	MSVOA06	N	11/01/07 11:28	1.0	
QC413239	MSVOA06	N	11/01/07 23:56	0.9615	
QC413240	MSVOA06	N	11/02/07 00:31	0.9615	
QC413263	MSVOA06	N	11/01/07 14:39	1.0	
QC413434	MSVOA12	N	11/02/07 12:45	1.0	
QC413435	MSVOA12	N	11/02/07 10:57	1.0	
QC413436	MSVOA12	N	11/02/07 11:30	1.0	
QC413524	MSVOA12	M	11/02/07 18:08	25.0	
QC413552	MSVOA12	M	11/02/07 20:50	500.0	
QC413553	MSVOA12	M	11/02/07 21:23	500.0	

REPORTING SUMMARY FOR 198818 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF		F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H
C	L	C	R	L	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C
1	M		M	E	1	E	1	E	L	S	B	E		A	K	E	P	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	M	B	B	B	B	C	B	B
2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M		Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	Z	P	1	U	
								2					2				3						2			2				2		3	2		3																			2	3		2	2			2	3	3			
QC413653	MSVOA12	N	11/05/07 14:38	1.0		+	+	+

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 10/31/07

Prepped by: Liz

131141

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198729-3	5.1	A		6	Conc 1,2 10.0g each		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198764-1	6.0	A		6			
2	-2	4.9						
3	-3	5.4				MS5		
4	-3	5.7	B			MS		
5	-3	5.5	C			MSD		
6	-4	3.8	A					
7	-5	2.0	B			encore A is 0.6 g		
8	-6	5.7	A					
9	198759-1	5.2	E					
10	198817-1	5.2	D			only one encore		
11	198818-1	5.6	B					
12	-2	5.0						
13	-3	6.0						
14	-5	3.4						
15	-6	5.8						
16	-7	3.2						
17	198818-10	5.2	D			MeaS 198817-1		

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/1/07

Prepped by: ZR

131197
131189

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198685-002	0.0079 10X	A		12	RL 714X of 10X		11/2R
2	~~198862-004~~					RR 1X surr ↑ on MS 6	11/1	
3	~~005~~							
4	~~007~~						11/2	
5	~~009~~							
6	198797-5	5.2	A		6	alias 602-10 MSS/MS/MSD		
7	-6	5.6				-12		
8	-7	5.0				-15		
9	198762-1	5.0						
10	198778-1	0.010	A		12	screen 500X		
11	-2	0.200				25X		
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26	PREP BLK	0.2	—	X	12	11/1/07		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	~~198862-004~~					~~RR 1X~~		
2	198764-011	0.150	B	X	12	RR 33.3X TCE >LR		
3	-6	0.200	C	X		MS 25X, TCE >LR		
4	198829-7	5.2	B		6	~~BLF OPP~~		
5	-10	3.7						
6	-15	3.4	A					
7	-17	5.0						
8	198880-1	6.5	B	X	6	Screen 5000X		
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 10/1/07
Prepped by: Tel

131197
131189

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198797-1	5.2	A		6	alias 198602-2		11/1
2	-2	5.0				-4		
3	198862-4 *	5.0	A			alias 521-11 not needed		
4	-5 *	5.3				-14		
5	-7 *	5.2				alias 547-6		
6	-9 *	5.3				-9		
7	198797-3	5.5	A		6	alias 602-6		
8	-4	5.5				-8		
9	198829-1	4.0	B		6	encore		
10	-2	3.4	B					
11	-3	5.6	C					
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23	PREP BLK	0.2	—	X	12	10/1/07 25x		
24								
25	198539-3	5.0	A		6			
26	-4							

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198764-6	3.5	C	X	—	MS 25x, TLE >CL on MS	11/8	
2	198818-1	5.8		X	6	screen 5,000x		
3	-2	6.0		X				
4	-6	5.9		X				
5	-3	5.8 2.8 2.4	A B C		6	MS 1x, 10TO		
6	-4	5.5	G	X		screen 50000x		
7	198767-1	2.1	A		12	MeOH/10/07		
8	-2	5.6						
9	-3	5.9						
10	-4	5.4						
11	-5	5.2/4.4/4.5	ABC			MSS/MS/MSD		
	-6	6.4	A					
	-7	6.2						
14	-8	6.0				PREP OFF		
15	-9	5.2						
16	-10	5.0						
17	-11	5.2						

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/2/07

Prepped by: WS

8260 5030

131245 / 131244

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	~~198859-1~~	~~5.0~~ 5.1	A			~~25x~~		11/7
2	198685-002	0.0025	"			RR 2000X of 10X HC NT↑		11/2R *
3	198778-001	0.004	"			RR 1250X		11/2
4	002	5.3	"			RR 1X		11/2
5	198880-002	5.1	A				11/14	
6								
7	198889-001	10.0	A	X		25X		
8	002	10.0	"	X		5000X Screen		
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198529-1	2.8	C	X		MC 25x, mp xy > CK		11/5
2	198815-1	0.020	"			MC 250x, HC		
3	-2	0.0125	"			400x, HC, NT		11/6
4	-4	~~0.040~~	G			500x, HC, NT MSS/MS/MSD ~~-2 6/11~~		
5	-6	0.200	C			25x		
6	198880-001	0.020	B			RR 250X OD	11/7	
7	198903-001	5.7	A		6	MSS		
8	001	6.6	B			MS		
9	001	5.3	C			MSD		
10	002	6.4	A					
11	003	6.2	"					
12	006	5.0	"					
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/2/07

Prepped by: WS

8260 5030

131245 / 131244

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	~~198889-1~~	~~5.0~~ 11/2	A			~~25X~~		11/7
2	198685-002	0.0025	"			RR 2000X of 10X HC NT↑		11/2 R *
3	198778-001	0.004	"			RR 1250X		11/2
4	002	5.3	"			RR 1X		11/2
5	198880-002	5.1	A				11/14	
6								
7	198889-001	10.0	A	X		25X		
8	002	10.0	"	X		5000X screen		
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198529-1	2.8	C	X		MC 25x, mp xy > CK		11/5
2	198815-1	0.020	"			MC 250x, HC		11/6
3	-2	0.0125	"			400x, HC, NT		"
4	-4	~~0.040~~	G			500x, HC, NT MSS/MS/MSD ~~Re-Z'd~~		"
5	-6	0.200	C			25x		"
6	198880-001	0.020	B			RR 250X OD	11/7	
7	198903-001	5.7	A		6	MSS		
8	001	6.6	B		"	MS		
9	001	5.3	C		"	MSD		
10	002	6.4	A		"			
11	003	6.2	"		"			
12	006	5.0	"		"			
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/2/07

Prepped by: liz

131244

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198797-5	10.0	A	X	6	allns 602-10 screen 1000x		
2	-6	10.0		X		-12 1000x		
3	-7	10.0		X		-15 2500x		
4	198900-1	5.1	A					
5	-2	5.2						
6	-3	5.0						
7	-4	5.2						
8	~~198759-1~~		~~E~~					
9	198843-1	5.4	A					
10	-2	10.0		X		~~1000x~~ screen		
11	198837-1	5.2	B			~~[illegible]~~ liz 11/2		
12	198889-1	10.0	A	~~X~~		25x on MS 12		
13	-2	10.0		X		~~1000x~~ screen		
14	~~198881-3~~							
15	~~liz 11/2 -4~~							
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26	198538-4		B			Freezer Blank KR		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS must run 25x	hold date	due date
1	198818-6	2			6	no more sample on MS 12		
2	198829-4	4.9	B					
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	198850-2	5.1	A	X	X 12	~~screen 1000x~~ ✓ not encore		
14	198903-1			X	X	~~screen 1000x~~		
15	-2			X	X			
16	-3			X	X			
17	-6			X	X			

F:/home/terri/templates/Soilprepsheet.xls

PROJECT 5035 Prep Log

Continued From Page

Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
10/25/07 lic	BLank	5.0	5.0	CU319	S7000	0.005	
	198634-2 B	6.0	6.0			0.006	
	-4	6.1	6.1			0.0061	
	-9	6.2	6.2			0.0062	
	198642-9	4.9	4.9			0.0049	
	-10	5.6	5.6			0.0056	
10/26/07 lic	BLank	5.0	5.0	CU319	S7000	0.005	
	198672-2 C	4.3	4.3			0.0043	
	198683-6 B	5.3	5.3			0.0053	
10/30/07 cwj	Blank	5.0	5.0	CU319	S7000	0.005 mL	
	198718-7 B	6.4	6.4			0.0064	
	-8	5.6	5.6			0.0056	
10/31/07 lic	BLank	5.0	5.0	CU319	S7000	0.005	
	198718-12 B	5.1	5.1			0.0051	
	198764-11	5.5	5.5			0.0055	
~~10/~~ 11/1/07 lic	BLank	5.0	5.0	CU319	S7000	0.005	
	198764-6 C	3.5	3.5			0.0035	
	198818-1	5.8	5.8			0.0058	
	-2	6.0	6.0			0.006	
	-4 C	5.5	5.5			0.0055	
	-6 C	5.9	5.9			0.0059	
	198880-1 B	6.5	6.5			0.0065	
11/2/07 lic	BLank see 001 Page #230 of MS VOA Extraction Log Book #BK2351						
	198829-1 C	2.8	2.8	CU319	S7590	0.0028	

Continued on Page

Read and Understood By

Signature Date Signature Date

PROJECT MS VOA MeOH Extraction Log

Continued From Page

Date & initial	Sample ID	Soil wt. (g)	MeOH vol. (mL)	MeOH Lot #	Analysis	Surrogate Stock #	Surrogate std vol (mL)	Comments
10/29/07 jc	Blank	10.0	10.0	CL319	8260	57000	0.010	
	198658-1 A	10.0						
	198685-2	1.0						oil
	198778-1	10.0						oily sludge
	-2	10.0						
11/2/07 jc	Blank	10.0	10.0	CL319	8260	57590	0.010	
	198797-5 A							
	-6							
	-7							
	198843-2							
	198889-1							
	-2							

Continued on Page

Read and Understood

Signed Date Signed Date

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/5/07

Prepped by: Jie

8260 5030 131304

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198889-001	2.0	A		12	RR 2.5X OD ~~MSS/MS/MSD~~		
2	002	0.020	"		"	RR 250X		
3	198843-002	0.008	"		"	625X		
4	198797-005	0.200	"		"	RR 25X OD		
5	6	0.150	"		"	" 33X "		
6	7	0.080	"		"	" 62.5X "		
7	198889-001	5.0	A			RR 1X OD MSS/MS/MSD		
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25	P. Blank MeOH	0.200				25X 11/5/07		
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198880-001	0.020	B		12	RR 250X NT		
2	198818-001	0.025	C		1	RR 200X HC, NT surr ↓		
3	002	0.0125	"		"	RR 400X HC, NT surr ↓↑		
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: ~~10~~ 11/5/07

Prepped by: Zi

131303

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198951-1	5.2	A		6	aliased 198548-12	11/1/07	11/08/07
2	198881-3	10.0		X		100X		
3	-4	10.0		X		250X		
4	-5	5.1			6			
5	-6	10.0		X		500X		
6	-7	10.0		X		5000X		
7	-8	10.0		X		500X		
8	-10	10.0		X		500X		
9	-11	10.0		X		100X		
10	-12	5.4			6			
11	-15	10.0		X	6	250X		
12	-16	5.1			6			
13	-17	5.3			12			
14	198908-2	10.0		X	6	500X		
15	-3	10.0		X		500X		
16	-6	10.0		X		500X		
17	-9	5.4			12			
	-10	5.2			12			
	-11	5.4			12			
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198756-1	6.1	A		6	MS5		
2	-1	6.2	B			MS		
3	-1	5.5	C			MSD		
4	-3					these samples are not for 8260		
5	-4							
6	-5							
7	-6							
8	-7							
9	-8							
10	-9							
11	-10							
12	-12							
13	-14							
14	-15							
15	-13							
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

PROJECT MS VOA MeOH Extraction Log

Notebook No. BK2351

Continued From Page

Date & initial	Sample ID		Soil wt. (g)	MeOH vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate Std vol (mL)	Comments
10/29/07 JE	Blank		10.0	10.0	CU319	8260	57000	0.010	
	198658-1	A	10.0						
	198685-2		1.0						oil
	198778-1		10.0						oily sludge
		-2	10.0						
11/2/07 JE	Blank		10.0	10.0	CU319	8260	57590	0.010	
	198797-5	A							
		-6							
		-7							
	198843-2								
	198889-1								
		-2							
11/5/07 JE	Blank		10.0	10.0	CU319	8260	57590	0.010	
	198881-3	A							
		-4							
		-6							
		-7							
		-8							
		-10							
		-11							
		-15							
	198908-2								
		-3							
		-6							

Continued on Page

Read and Understood By

Signed Date Signed Date

PROJECT 5035 Prep Log

Continued From Page ...

Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
10/25/07 jic	BLank	5.0	5.0	CU319	57000	0.005	
	198634-2 B	6.0	6.0			0.006	
	-4	6.1	6.1			0.0061	
	-9	6.2	6.2			0.0062	
	198642-9	4.9	4.9			0.0049	
	-10	5.6	5.6			0.0056	
10/26/07 jic	BLank	5.0	5.0	CU319	57000	0.005	
	198672-2 C	4.3	4.3			0.0043	
	198683-6 B	5.3	5.3			0.0053	
10/30/07 cwj	Blank	5.0	5.0	CU319	57000	0.005 mL	
	198718-7 B	6.4	6.4			0.0064	
	-8	5.6	5.6			0.0056	
10/31/07 jic	BLank	5.0	5.0	CU319	57000	0.005	
	198718-12 B	5.1	5.1			0.0051	
	198764-11	5.5	5.5			0.0055	
10/ 11/1/07 jic	BLank	5.0	5.0	CU319	57000	0.005	
	198764-6 C	3.5	3.5			0.0035	
	198818-1	5.8	5.8			0.0058	
	-2	6.0	6.0			0.006	
	-4 G	5.5	5.5			0.0055	
	-6 C	5.9	5.9			0.0059	
	198880-1 B	6.5	6.5			0.0065	
11/2/07 jic	BLank see 000 Page #230 MS VOA Extraction Log Book #BK2351						
	198829-1 C	2.8	2.8	CU319	57590	0.0028	

Continued On Page ...

Read and Understood By

Signed Date

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/6/07

Prepped by: Zie

131351

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198881-12	10.0	A	X	6	1000X		
2	-6	0.050				MH 100X, OP		
3	-8	0.025				MH 200X, OP		
4	-10	0.050				MH 100X, OP		
5	-7	0.005				1000X		
6	198908-2	0.010				500X		
7	-3	0.002				2500X		
8	-6	0.010				500X		
9	198881-17	10.0		X		Screen 5000X		
10	198818-2	0.0125	C			MH 400X, 12pcA ↓		
11								
12								
13								
14								
15								
16								
17								
21								
22								
23								
24								
25	198868-3		A		6	Freeze		
26	-4		↓		↓	↓		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198956-1	6.3	D		6	MS Clock		
2	-1	5.4	E			MSD ↓		
3	198982-1	5.2	B					
4	-2	5.6						
5	-3	4.4						
6	-4	5.9						
7	-5	4.7	↓			on MS12		
8								
9								
10								
11								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

PROJECT MS VOA MeOH Extraction Log

Notebook No. BK2351

Continued From Page

Date & Initial	Sample ID		Soil wt. (g)	MeOH vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate std vol (mL)	Comments
10/29/07 JE	Blank		10.0	10.0	CU319	8260	57000	0.010	
	198658-1	A	10.0						
	198685-2		1.0						oil
	198778-1		10.0						oily sludge
		-2	10.0						
11/2/07 JE	Blank		10.0	10.0	CU319	8260	57590	0.010	
	198797-5	A							
		-6							
		-7							
	198843-2								
	198889-1								
		-2							
11/5/07 JE	Blank		10.0	10.0	CU319	8260	57590	0.010	
	198881-3	A							
		-4							
		-6							
		-7							
		-8							
		-10							
		-11							
		-15							
	198908-2								
		-3							
		-6							

Continued on Page

Read and Understood By

Signed Date Signed Date

PROJECT 5035 Prep Log

Notebook No. BK 1860

Continued From Page

Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
10/25/07 Vic	BLank	5.0	5.0	CU319	57000	0.005	
	198634-2 B	6.0	6.0			0.006	
	-4	6.1	6.1			0.0061	
	-9	6.2	6.2			0.0062	
	198642-9	4.9	4.9			0.0049	
	-10	5.6	5.6			0.0056	
10/26/07 Vic	BLank	5.0	5.0	CU319	57000	0.005	
	198672-2 C	4.3	4.3			0.0043	
	198683-6 B	5.3	5.3			0.0053	
10/30/07 cwj	Blank	5.0	5.0	CU319	57000	0.005 mL	
	198718-7 B	6.4	6.4			0.0064	
	-8	5.6	5.6			0.0056	
10/31/07 Vic	BLank	5.0	5.0	CU319	57000	0.005	
	198718-12 B	5.1	5.1			0.0051	
	198764-11	5.5	5.5			0.0055	
10/ 11/1/07 Vic	BLank	5.0	5.0	CU319	57000	0.005	
	198764-6 C	3.5	3.5			0.0035	
	198818-1	5.8	5.8			0.0058	
	-2	6.0	6.0			0.006	
	-4 G	5.5	5.5			0.0055	
	-6 C	5.9	5.9			0.0059	
	198880-1 B	6.5	6.5			0.0065	
11/2/07 Vic	BLank see on page #230 of MS VOA Extraction Log book #BK2351						
	198829-1 C	2.8	2.8	CU319	57590	0.0028	

Continued on Page

Read and Understood By

Signature Date Signature Date

8270-SIM
Water

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX353RBEX354	Batch#:	131165
Lab ID:	198818-008	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Prepared:	10/31/07
Diln Fac:	1.000	Analyzed:	11/01/07

Analyte	Result	RL	MDL
Naphthalene	ND	0.1	0.006
2-Methylnaphthalene	ND	0.1	0.005
Acenaphthylene	ND	0.1	0.009
Acenaphthene	ND	0.1	0.006
Fluorene	ND	0.1	0.007
Phenanthrene	ND	0.1	0.008
Anthracene	ND	0.1	0.04
Fluoranthene	ND	0.1	0.008
Pyrene	ND	0.1	0.01
Benzo(a)anthracene	ND	0.1	0.01
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.01
Benzo(k)fluoranthene	ND	0.1	0.01
Benzo(a)pyrene	ND	0.1	0.05
Indeno(1,2,3-cd)pyrene	ND	0.1	0.005
Dibenz(a,h)anthracene	ND	0.1	0.01
Benzo(g,h,i)perylene	ND	0.1	0.01

Surrogate	%REC	Limits
Nitrobenzene-d5	66	45-132
2-Fluorobiphenyl	88	48-120
Terphenyl-d14	83	30-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413150	Batch#:	131165
Matrix:	Water	Prepared:	10/31/07
Units:	ug/L	Analyzed:	11/01/07

Analyte	Result	RL	MDL
Naphthalene	ND	0.1	0.006
2-Methylnaphthalene	ND	0.1	0.005
Acenaphthylene	ND	0.1	0.009
Acenaphthene	ND	0.1	0.006
Fluorene	ND	0.1	0.007
Phenanthrene	ND	0.1	0.008
Anthracene	ND	0.1	0.04
Fluoranthene	ND	0.1	0.007
Pyrene	ND	0.1	0.01
Benzo(a)anthracene	ND	0.1	0.01
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.01
Benzo(k)fluoranthene	ND	0.1	0.01
Benzo(a)pyrene	ND	0.1	0.05
Indeno(1,2,3-cd)pyrene	ND	0.1	0.005
Dibenz(a,h)anthracene	ND	0.1	0.009
Benzo(g,h,i)perylene	ND	0.1	0.009

Surrogate	%REC	Limits
Nitrobenzene-d5	66	45-132
2-Fluorobiphenyl	89	48-120
Terphenyl-d14	80	30-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

52.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	131165
Units:	ug/L	Prepared:	10/31/07
Diln Fac:	1.000	Analyzed:	11/01/07

Type: BS Lab ID: QC413151

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	0.7373	74	45-120
Pyrene	1.000	0.6946	69	39-120

Surrogate	%REC	Limits
Nitrobenzene-d5	72	45-132
2-Fluorobiphenyl	88	48-120
Terphenyl-d14	75	30-120

Type: BSD Lab ID: QC413152

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	0.7902	79	45-120	7	35
Pyrene	1.000	0.7130	71	39-120	3	34

Surrogate	%REC	Limits
Nitrobenzene-d5	77	45-132
2-Fluorobiphenyl	94	48-120
Terphenyl-d14	79	30-120

RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR 198818 MSSIM Water
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP IDF : 1.0
Seqnum : 577399499007 File : sj407 Time : 04-OCT-2007 14:02

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	56723	51.72	
68	< 2% of mass 69	0	0.00	
69		51520		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	54896	50.05	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	7427	6.77	
275	10% - 30% of mass 198	26024	23.73	
365	> 1% of mass 198	3682	3.36	
441	Present, < mass 443	1730	12.57	
442	> 40% and < 100% of mass 198	71352	65.06	
443	17% - 23% of mass 442	13763	19.29	

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

CURTIS & TOMPKINS DFTPP TUNE FOR 198818 MSSIM Water
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 577439779013 File : sk113 Time : 01-NOV-2007 17:59

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	129931	49.25	
68	< 2% of mass 69	0	0.00	
69		111894		
70	< 2% of mass 69	71	0.06	
127	40% - 60% of mass 198	127269	48.24	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	20780	7.88	
275	10% - 30% of mass 198	54111	20.51	
365	> 1% of mass 198	7001	2.65	
441	Present, < mass 443	8246	33.19	
442	> 40% and < 100% of mass 198	128221	48.60	
443	17% - 23% of mass 442	24845	19.38	

Analyst: AD Date: 11/02/07 Reviewer: LLH Date: 11/02/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA08
Calnum : 577399499001
Units : ug/mL

Name : 8PAHSIM
Date : 04-OCT-2007 14:22
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sj408	577399499008	ICAL 1	04-OCT-2007 14:22	S7213
L2	sj409	577399499009	ICAL 2	04-OCT-2007 14:56	S7214
L3	sj410	577399499010	ICAL 3	04-OCT-2007 15:30	S7215
L4	sj411	577399499011	ICAL 4	04-OCT-2007 16:04	S7216
L5	sj412	577399499012	ICAL 5	04-OCT-2007 16:39	S7217
L6	sj413	577399499013	ICAL 6	04-OCT-2007 17:12	S7218
L7	sj414	577399499014	ICAL 7	04-OCT-2007 17:48	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0279	1.0515	1.0576	1.0897	1.1167	1.1535	1.2380	AVRG		0.90498		1.1050	7	15	0.05	0.99	
2-Methylnaphthalene	0.6403m	0.6568m	0.6877m	0.7160	0.7280m	0.7787	0.8453	AVRG		1.38539		0.7218	10	15	0.05	0.99	
Acenaphthylene	1.7392	1.8386	1.9029	1.9958	2.0197	2.1992	2.3361	AVRG		0.49888		2.0045	10	15	0.05	0.99	
Acenaphthene	1.0019	1.0569	1.0675	1.1020	1.1192	1.2126	1.2895	AVRG		0.89178		1.1214	9	15	0.05	0.99	
Fluorene	1.1914	1.2346	1.2475	1.3164	1.3582	1.4628	1.5782	AVRG		0.74555		1.3413	10	15	0.05	0.99	
Phenanthrene	1.1189m	1.1515	1.1377	1.1762	1.2097	1.2929	1.3921	AVRG		0.82557		1.2113	8	15	0.05	0.99	
Anthracene	0.9378m	1.0065m	1.0433m	1.0988m	1.1294m	1.2291m	1.3229m	AVRG		0.90116		1.1097	12	15	0.05	0.99	
Fluoranthene	1.1865	1.2445	1.2562	1.3463	1.3710	1.4915	1.6034	AVRG		0.73688		1.3571	11	15	0.05	0.99	
Pyrene	1.1893	1.2221	1.2595	1.2855	1.3234	1.3731	1.3996	AVRG		0.77327		1.2932	6	15	0.05	0.99	
Benzo(a)anthracene	1.0258	1.0731	1.0847	1.1222	1.1667	1.2004	1.2265	AVRG		0.88614		1.1285	6	15	0.05	0.99	
Chrysene	1.0339m	1.0823m	1.0962m	1.1245m	1.1405m	1.1794m	1.1936m	AVRG		0.89167		1.1215	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.1368	1.2311	1.2480	1.3220	1.3494	1.4862	1.5129	AVRG		0.75379		1.3266	10	15	0.05	0.99	
Benzo(k)fluoranthene	1.1967m	1.2520m	1.3252m	1.3825m	1.4218m	1.5105m	1.5616m	AVRG		0.72536		1.3786	10	15	0.05	0.99	
Benzo(a)pyrene	1.0597	1.1129	1.1625	1.2451	1.3016	1.4106	1.4795	AVRG		0.79800		1.2531	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2909	1.4000	1.4491	1.5667	1.6263	1.7915	1.8456	AVRG		0.63810		1.5672	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9958	1.0914	1.1341	1.2279	1.2881	1.4330	1.5289	AVRG		0.80467		1.2427	15	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1512	1.2277	1.2880	1.3571	1.3963	1.5107	1.5496	AVRG		0.73834		1.3544	11	15	0.05	0.99	
Nitrobenzene-d5	0.2170	0.2239	0.2350	0.2499	0.2509	0.2690	0.2799	AVRG		4.05662		0.2465	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2568	1.2885	1.3273	1.3749	1.4096	1.5071	1.5747	AVRG		0.71877		1.3913	8	15	0.05	0.99	
Terphenyl-d14	0.9554	0.9851	1.0067	1.0248	1.0466	1.0897	1.1118	AVRG		0.96951		1.0314	5	15	0.05	0.99	

SS2303

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-7	0.200	-5	0.500	-4	1.000	-1	2.000	1	5.000	4	10.00	12
2-Methylnaphthalene	0.100	-11	0.200	-9	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	17
Acenaphthylene	0.100	-13	0.200	-8	0.500	-5	1.000	0	2.000	1	5.000	10	10.00	17
Acenaphthene	0.100	-11	0.200	-6	0.500	-5	1.000	-2	2.000	0	5.000	8	10.00	15
Fluorene	0.100	-11	0.200	-8	0.500	-7	1.000	-2	2.000	1	5.000	9	10.00	18
Phenanthrene	0.100	-8	0.200	-5	0.500	-6	1.000	-3	2.000	0	5.000	7	10.00	15
Anthracene	0.100	-15	0.200	-9	0.500	-6	1.000	-1	2.000	2	5.000	11	10.00	19
Fluoranthene	0.100	-13	0.200	-8	0.500	-7	1.000	-1	2.000	1	5.000	10	10.00	18
Pyrene	0.100	-8	0.200	-6	0.500	-3	1.000	-1	2.000	2	5.000	6	10.00	8
Benzo(a)anthracene	0.100	-9	0.200	-5	0.500	-4	1.000	-1	2.000	3	5.000	6	10.00	9
Chrysene	0.100	-8	0.200	-3	0.500	-2	1.000	0	2.000	2	5.000	5	10.00	6
Benzo(b)fluoranthene	0.100	-14	0.200	-7	0.500	-6	1.000	0	2.000	2	5.000	12	10.00	14
Benzo(k)fluoranthene	0.100	-13	0.200	-9	0.500	-4	1.000	0	2.000	3	5.000	10	10.00	13
Benzo(a)pyrene	0.100	-15	0.200	-11	0.500	-7	1.000	-1	2.000	4	5.000	13	10.00	18
Indeno(1,2,3-cd)pyrene	0.100	-18	0.200	-11	0.500	-8	1.000	0	2.000	4	5.000	14	10.00	18
Dibenz(a,h)anthracene	0.100	-20	0.200	-12	0.500	-9	1.000	-1	2.000	4	5.000	15	10.00	23
Benzo(g,h,i)perylene	0.100	-15	0.200	-9	0.500	-5	1.000	0	2.000	3	5.000	12	10.00	14
Nitrobenzene-d5	0.100	-12	0.200	-9	0.500	-5	1.000	1	2.000	2	5.000	9	10.00	14
2-Fluorobiphenyl	0.100	-10	0.200	-7	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	13
Terphenyl-d14	0.100	-7	0.200	-4	0.500	-2	1.000	-1	2.000	1	5.000	6	10.00	8

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

577399499001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA08 Name : 8PAHSIM
Calnum : 577399499001 Cal Date : 04-OCT-2007

ICV 577399499015 (sj415 04-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1050	0.9959	1.000	0.9013	ug/mL	-10	20	
2-Methylnaphthalene	0.7218	0.6131	1.000	0.8493	ug/mL	-15	20	
Acenaphthylene	2.0045	1.8534	1.000	0.9246	ug/mL	-8	20	
Acenaphthene	1.1214	1.0220	1.000	0.9114	ug/mL	-9	20	
Fluorene	1.3413	1.2206	1.000	0.9100	ug/mL	-9	20	
Phenanthrene	1.2113	1.0804	1.000	0.8920	ug/mL	-11	20	
Anthracene	1.1097	1.0862	1.000	0.9788	ug/mL	-2	20	m
Fluoranthene	1.3571	1.2300	1.000	0.9064	ug/mL	-9	20	
Pyrene	1.2932	1.2487	1.000	0.9656	ug/mL	-3	20	
Benzo(a)anthracene	1.1285	1.0658	1.000	0.9445	ug/mL	-6	20	
Chrysene	1.1215	1.0593	1.000	0.9445	ug/mL	-6	20	
Benzo(b)fluoranthene	1.3266	1.2480	1.000	0.9407	ug/mL	-6	20	
Benzo(k)fluoranthene	1.3786	1.3256	1.000	0.9615	ug/mL	-4	20	m
Benzo(a)pyrene	1.2531	1.1779	1.000	0.9399	ug/mL	-6	20	
Indeno(1,2,3-cd)pyrene	1.5672	1.4401	1.000	0.9189	ug/mL	-8	20	
Dibenz(a,h)anthracene	1.2427	1.1897	1.000	0.9574	ug/mL	-4	20	
Benzo(g,h,i)perylene	1.3544	1.2837	1.000	0.9478	ug/mL	-5	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA08 Run Name : 2/10UG/ML IDF : 1.0
Seqnum : 577439779014.1 File : sk114 Time : 01-NOV-2007 18:20
Cal : 577399499001 Caldate : 04-OCT-2007
Standards: S7217

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1050	1.1442	2.000	2.071	ug/mL	4	20	0.0500	m
2-Methylnaphthalene	0.7218	0.6950	2.000	1.926	ug/mL	-4	20	0.0500	
Acenaphthylene	2.0045	2.1146	2.000	2.110	ug/mL	5	20	0.0500	
Acenaphthene	1.1214	1.2278	2.000	2.190	ug/mL	9	20	0.0500	
Fluorene	1.3413	1.4943	2.000	2.228	ug/mL	11	20	0.0500	
Phenanthrene	1.2113	1.1529	2.000	1.904	ug/mL	-5	20	0.0500	
Anthracene	1.1097	1.0777	2.000	1.942	ug/mL	-3	20	0.0500	m
Fluoranthene	1.3571	1.3379	2.000	1.972	ug/mL	-1	20	0.0500	
Pyrene	1.2932	1.2940	2.000	2.001	ug/mL	0	20	0.0500	
Benzo(a)anthracene	1.1285	1.1014	2.000	1.952	ug/mL	-2	20	0.0500	
Chrysene	1.1215	1.1333	2.000	2.021	ug/mL	1	20	0.0500	
Benzo(b)fluoranthene	1.3266	1.3774	2.000	2.077	ug/mL	4	20	0.0500	
Benzo(k)fluoranthene	1.3786	1.4352	2.000	2.082	ug/mL	4	20	0.0500	m
Benzo(a)pyrene	1.2531	1.2894	2.000	2.058	ug/mL	3	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.5672	1.3914	2.000	1.776	ug/mL	-11	20	0.0500	
Dibenz(a,h)anthracene	1.2427	1.1055	2.000	1.779	ug/mL	-11	20	0.0500	
Benzo(g,h,i)perylene	1.3544	1.2026	2.000	1.776	ug/mL	-11	20	0.0500	m
Nitrobenzene-d5	0.2465	0.2188	2.000	1.776	ug/mL	-11	20	0.0500	
2-Fluorobiphenyl	1.3913	1.5373	2.000	2.210	ug/mL	10	20	0.0500	
Terphenyl-d14	1.0314	0.9929	2.000	1.925	ug/mL	-4	20	0.0500	

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/02/07

m=manual integration

577439779014.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 577439779

Date : 11/01/07 Reference : sk114
Sequence : MSBNA08 sk1 Analyzed : 11/01/07 18:20

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	52805	9.05	183184	10.66	105856	12.88	191652	14.78	200026	18.35	157772	20.29
		LOWER LIMIT	26403	8.55	91592	10.16	52928	12.38	95826	14.28	100013	17.85	78886	19.79
		UPPER LIMIT	105610	9.55	366368	11.16	211712	13.38	383304	15.28	400052	18.85	315544	20.79
014	CCV	2/10UG/ML	52805	9.05	183184	10.66	105856	12.88	191652	14.78	200026	18.35	157772	20.29
015	BLANK	QC413150	47523	9.06	174599	10.66	97525	12.88	170760	14.78	178926	18.35	139395	20.29
016	BS	QC413151	49532	9.05	175412	10.66	101268	12.88	180907	14.78	189840	18.35	152618	20.29
017	BSD	QC413152	54395	9.05	191926	10.66	110420	12.88	196741	14.78	212789	18.35	168634	20.29
018	SAMPLE	198763-001	54468	9.05	196302	10.65	107630	12.88	199258	14.78	198415	18.35	149661	20.28
019	SAMPLE	198818-008	51510	9.05	189829	10.65	106277	12.88	189936	14.78	187039	18.35	148925	20.28
020	SAMPLE	198570-047	54019	9.05	186712	10.65	104746	12.88	193541	14.78	201399	18.35	181251	20.29
021	SAMPLE	198570-048	62859	9.04	222773	10.65	123991	12.88	221929	14.78	235379	18.35	217410	20.29
023	SAMPLE	198570-052	58627	9.04	210150	10.65	116729	12.88	213915	14.78	220400	18.35	184209	20.29
024	SAMPLE	198570-053	61926	9.04	218646	10.65	122060	12.88	223199	14.78	228052	18.35	196651	20.29
025	BLANK	QC413366	58929	9.05	205470	10.66	118399	12.88	214417	14.78	209662	18.35	171722	20.29
026	LCS	QC413367	53611	9.05	187083	10.66	103911	12.88	190499	14.78	196511	18.35	156122	20.29
027	MSS	198767-005	59219	9.05	204946	10.65	113964	12.88	213197	14.78	213273	18.35	168354	20.29
028	SAMPLE	198767-006	55058	9.05	195054	10.65	113863	12.88	209464	14.78	223208	18.35	177958	20.29
029	MS	QC413368	49957	9.04	174389	10.65	97227	12.88	179127	14.78	184058	18.35	146326	20.29
030	MSD	QC413369	55081	9.05	192592	10.65	108285	12.88	198337	14.78	209211	18.35	163266	20.28

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577399499

Instrument : MSBNA08 Begun : 10/04/07 10:19
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
002	sj402	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:19	1.0	1	
003	sj403	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:39	1.0	1	
004	sj404	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:53	1.0	1	
005	sj405	CCV	CCV RT CHECK			10/04/07 12:22	1.0	2	
006	sj406	CCV	CCV RT CHECK			10/04/07 13:22	1.0	3	
007	sj407	TUN	DFTPP			10/04/07 14:02	1.0	1	
008	sj408	ICAL	ICAL 1			10/04/07 14:22	1.0	4	
009	sj409	ICAL	ICAL 2			10/04/07 14:56	1.0	5	
010	sj410	ICAL	ICAL 3			10/04/07 15:30	1.0	3	
011	sj411	ICAL	ICAL 4			10/04/07 16:04	1.0	2	
012	sj412	ICAL	ICAL 5			10/04/07 16:39	1.0	6	
013	sj413	ICAL	ICAL 6			10/04/07 17:12	1.0	7	
014	sj414	ICAL	ICAL 7			10/04/07 17:48	1.0	8	
015	sj415	ICV	ICV			10/04/07 18:23	1.0	9	
016	sj416	TUN	DFTPP			10/04/07 18:58	1.0	1	
017	sj417	CCV	CCV 4			10/04/07 19:18	1.0	2	
018	sj418	SAMPLE	198013-014	Soil	130099	10/04/07 19:58	1.0	10	
019	sj419	BLANK	QC408688	Soil	130099	10/04/07 20:32	1.0	10	
020	sj420	LCS	QC408689	Soil	130099	10/04/07 21:07	1.0	10	
021	sj421	SAMPLE	198013-016	Soil	130099	10/04/07 21:42	1.0	10	
022	sj422	MSS	198013-018	Soil	130099	10/04/07 22:16	1.0	10	
023	sj423	MS	QC408690	Soil	130099	10/04/07 22:51	1.0	10	
024	sj424	MSD	QC408691	Soil	130099	10/04/07 23:25	1.0	10	
025	sj425	SAMPLE	198013-008	Soil	130099	10/04/07 23:59	3.0	10	
026	sj426	SAMPLE	198013-017	Soil	130099	10/05/07 00:33	1.0	10	
027	sj427	SAMPLE	198013-011	Soil	130099	10/05/07 01:07	1.0	10	
028	sj428	SAMPLE	198004-009	Water	130094	10/05/07 01:41	1.0	10	

Standards used: 1=S7320 2=S7216 3=S7215 4=S7213 5=S7214 6=S7217 7=S7218 8=S7219 9=S6709 10=S7212

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577439779

Instrument : MSBNA08 Begun : 11/01/07 09:39
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	sk101	TUN	DFTPP/PEM 50UG/ML			11/01/07 09:39	1.0	1
002	sk102	CCV	1.0/5.0 UG/ML			11/01/07 09:59	1.0	2
003	sk103	SAMPLE	198767-001	Soil	131143	11/01/07 10:56	2.0	3
004	sk104	SAMPLE	198767-002	Soil	131143	11/01/07 11:29	2.0	3
005	sk105	SAMPLE	198767-008	Soil	131143	11/01/07 12:03	2.0	3
006	sk106	SAMPLE	198767-009	Soil	131143	11/01/07 12:37	2.0	3
007	sk107	SAMPLE	198767-010	Soil	131143	11/01/07 13:10	2.0	3
008	sk108	SAMPLE	198767-011	Soil	131143	11/01/07 13:44	2.0	3
009	sk109	SAMPLE	198767-007	Soil	131143	11/01/07 14:19	3.0	3
010	sk110	SAMPLE	198767-004	Soil	131143	11/01/07 14:52	2.0	3
011	sk111	SAMPLE	198818-003	Soil	131143	11/01/07 15:25	1.0	3
012	sk112	SAMPLE	198818-010	Soil	131143	11/01/07 15:59	1.0	3
013	sk113	TUN	DFTPP/PEM 50UG/ML			11/01/07 17:59	1.0	1
014	sk114	CCV	2/10UG/ML			11/01/07 18:20	1.0	4
015	sk115	BLANK	QC413150	Water	131165	11/01/07 18:54	1.0	3
016	sk116	BS	QC413151	Water	131165	11/01/07 19:29	1.0	3
017	sk117	BSD	QC413152	Water	131165	11/01/07 20:02	1.0	3
018	sk118	SAMPLE	198763-001	Water	131165	11/01/07 20:35	1.0	3
019	sk119	SAMPLE	198818-008	Water	131165	11/01/07 21:09	1.0	3
020	sk120	SAMPLE	198570-047	Soil	130870	11/01/07 21:44	1.0	3
021	sk121	SAMPLE	198570-048	Soil	130870	11/01/07 22:17	1.0	3
023	sk123	SAMPLE	198570-052	Soil	130870	11/01/07 22:50	1.0	3
024	sk124	SAMPLE	198570-053	Soil	130870	11/01/07 23:24	1.0	3
025	sk125	BLANK	QC413366	Soil	131224	11/01/07 23:59	1.0	3
026	sk126	LCS	QC413367	Soil	131224	11/02/07 00:33	1.0	3
027	sk127	MSS	198767-005	Soil	131224	11/02/07 01:08	1.0	3
028	sk128	SAMPLE	198767-006	Soil	131224	11/02/07 01:42	1.0	3
029	sk129	MS	QC413368	Soil	131224	11/02/07 02:17	1.0	3
030	sk130	MSD	QC413369	Soil	131224	11/02/07 02:52	1.0	3

Standards used: 1=S7320 2=S7216 3=S7386 4=S7217

REPORTING SUMMARY FOR 198818 MSSIM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FLPH	PHANH	ANTH	FLA	PYR	BZAA	CHRY	BZBF	BZKF	BZAP	INP1	BAHH	DBAHG	BZOB	NPH2	PHEN	PHEN2
198818-008	MSBNA08	11/01/07 21:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413150	MSBNA08	11/01/07 18:54	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413150	MSBNA02	11/02/07 20:03	1.0																					
QC413151	MSBNA08	11/01/07 19:29	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413151	MSBNA02	11/02/07 20:40	1.0																					
QC413152	MSBNA08	11/01/07 20:02	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413152	MSBNA02	11/02/07 21:18	1.0																					

:00300

SAMPLE PREPARATION SUMMARY

Batch # : 131165
Started By : DJT
Method : 3520C
Spike #1 ID : S7474
Prep Date : 31-OCT-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7566
Analysis : 8270-SIM
Finished By : JLM
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198763-001		Water	950	1	1	0.001053	5	1				8270-SIM	
198799-001		Water	1050	1	1	0.0009524	7	1				14DIOXANE	
198818-008		Water	975	1	1	0.001026	7	1				8270-SIM	
QC413150	BLANK	Water	1000	1	1	0.001		1				8270-SIM	
QC413151	BS	Water	1000	1	1	0.001		1	1			8270-SIM	
QC413152	BSD	Water	1000	1	1	0.001		1	1			8270-SIM	

LLH 11/02/07 : reviewed paperwork

AD 11/02/07 : MS/MSD not included due to insufficient sample volume.

AD 11/02/07 : Paperwork reviewed.

AD 11/05/07 : Runs from MSBNA02 reported for 198799 (1,4-dioxane) ONLY.

Analyst: AD Date: 11/05/07 Reviewer: JGM Date: 11/05/07

BNA Water Prep Log **Curtis & Tompkins, Ltd.**

LIMS Analysis: 8270-SIM/1,4 DIOX Extraction Method: Cleanup Method (if needed):
LIMS Batch No: 131165 ☒ mod.EPA 3520c cont.L/L ☐ EPA 3640a GPC
Date Extracted: 10/31/07 ☐ _____ ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
198763-001G	950	5	1.0		
198799-001D	1050	7	↓		
198818-008L	975	↓	↓		
MB QC413150	1000	NA	↓		
BS 1	↓	↓	↓		
BSD 2	↓	↓	↓		JLM 11/1/07

	Lot# / LIMS # / Time	Date/ Initials
1.0 mL of surrogate solution was added to all samples	S7474A	DJT 10/31/07
1.0 mL of matrix spiking solution was added to all spikes	S7566C	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS072315	
Cont. L/L extracted with 450mL of CH_2Cl_2	EM47177	
Extraction Start Time:	1420	↓
Extraction End Time:	0830	JLM 11/1/07
pH of all samples adjusted to pH ≥ 11 with 10 N NaOH	N/A	
Extraction Start Time:	↓	
Extraction End Time:		
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	~~BF~~ JLM 11/1/07 EM47158737	
Concentrated to volumes as noted above	✓	
Relinquished to BNA department	✓	↓

10/31/07
Extraction Chemist **Date**

Contined from Page /
Continued on Page _____

11/1/07
Reviewed by **Date**

8270-SIM
Soil

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX350[4.0]	Batch#:	131143
Lab ID:	198818-001	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	10/31/07
Diln Fac:	5.000		

Moisture: 20%

Analyte	Result	RL	MDL
Naphthalene	49	31	3.8
2-Methylnaphthalene	39	31	2.6
Acenaphthylene	ND	31	4.1
Acenaphthene	ND	31	3.9
Fluorene	ND	31	3.2
Phenanthrene	12 J	31	2.8
Anthracene	ND	31	5.2
Fluoranthene	10 J	31	2.8
Pyrene	15 J	31	2.8
Benzo(a)anthracene	5.5 J	31	4.0
Chrysene	7.7 J	31	3.3
Benzo(b)fluoranthene	8.8 J	31	4.4
Benzo(k)fluoranthene	ND	31	4.7
Benzo(a)pyrene	6.3 J	31	4.7
Indeno(1,2,3-cd)pyrene	4.8 J	31	3.5
Dibenz(a,h)anthracene	ND	31	2.4
Benzo(g,h,i)perylene	6.9 J	31	2.6

Surrogate	%REC	Limits
Nitrobenzene-d5	295 *	39-136
2-Fluorobiphenyl	85	42-120
Terphenyl-d14	83	34-130

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	DUP103007	Batch#:	131143
Lab ID:	198818-002	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	10/31/07
Diln Fac:	5.000		

Moisture: 21%

Analyte	Result	RL	MDL
Naphthalene	62	31	3.8
2-Methylnaphthalene	45	31	2.6
Acenaphthylene	5.9 J	31	4.1
Acenaphthene	ND	31	3.9
Fluorene	ND	31	3.3
Phenanthrene	11 J	31	2.8
Anthracene	ND	31	5.3
Fluoranthene	11 J	31	2.8
Pyrene	16 J	31	2.8
Benzo(a)anthracene	6.5 J	31	4.0
Chrysene	9.0 J	31	3.3
Benzo(b)fluoranthene	13 J	31	4.4
Benzo(k)fluoranthene	ND	31	4.7
Benzo(a)pyrene	9.1 J	31	4.8
Indeno(1,2,3-cd)pyrene	7.6 J	31	3.5
Dibenz(a,h)anthracene	ND	31	2.4
Benzo(g,h,i)perylene	11 J	31	2.7

Surrogate	%REC	Limits
Nitrobenzene-d5	394 *	39-136
2-Fluorobiphenyl	86	42-120
Terphenyl-d14	82	34-130

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX351[4.0]	Batch#:	131143
Lab ID:	198818-003	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	11/01/07
Diln Fac:	1.000		

Moisture: 8%

Analyte	Result	RL	MDL
Naphthalene	ND	5.4	0.66
2-Methylnaphthalene	ND	5.4	0.44
Acenaphthylene	ND	5.4	0.71
Acenaphthene	ND	5.4	0.68
Fluorene	ND	5.4	0.56
Phenanthrene	ND	5.4	0.49
Anthracene	ND	5.4	0.91
Fluoranthene	ND	5.4	0.49
Pyrene	ND	5.4	0.48
Benzo(a)anthracene	ND	5.4	0.69
Chrysene	ND	5.4	0.57
Benzo(b)fluoranthene	ND	5.4	0.76
Benzo(k)fluoranthene	ND	5.4	0.82
Benzo(a)pyrene	ND	5.4	0.82
Indeno(1,2,3-cd)pyrene	ND	5.4	0.60
Dibenz(a,h)anthracene	ND	5.4	0.42
Benzo(g,h,i)perylene	ND	5.4	0.46

Surrogate	%REC	Limits
Nitrobenzene-d5	58	39-136
2-Fluorobiphenyl	75	42-120
Terphenyl-d14	73	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

42.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX352[4.0]	Batch#:	131143
Lab ID:	198818-004	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	10/31/07
Diln Fac:	20.00		

Moisture: 17%

Analyte	Result	RL	MDL
Naphthalene	250	120	18
2-Methylnaphthalene	2,200	120	18
Acenaphthylene	ND	120	20
Acenaphthene	23 J	120	16
Fluorene	33 J	120	19
Phenanthrene	71 J	120	13
Anthracene	ND	120	39
Fluoranthene	29 J	120	17
Pyrene	58 J	120	18
Benzo(a)anthracene	ND	120	16
Chrysene	ND	120	29
Benzo(b)fluoranthene	47 J	120	9.2
Benzo(k)fluoranthene	ND	120	25
Benzo(a)pyrene	ND	120	26
Indeno(1,2,3-cd)pyrene	ND	120	17
Dibenz(a,h)anthracene	ND	120	18
Benzo(g,h,i)perylene	25 J	120	16

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	39-136
2-Fluorobiphenyl	DO	42-120
Terphenyl-d14	DO	34-130

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX353[4.0]	Batch#:	131143
Lab ID:	198818-005	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	10/31/07
Diln Fac:	5.000		

Moisture: 10%

Analyte	Result	RL	MDL
Naphthalene	7.0 J	28	4.2
2-Methylnaphthalene	77	28	4.1
Acenaphthylene	ND	28	4.6
Acenaphthene	ND	28	3.8
Fluorene	ND	28	4.5
Phenanthrene	ND	28	3.1
Anthracene	ND	28	9.0
Fluoranthene	ND	28	4.0
Pyrene	ND	28	4.1
Benzo(a)anthracene	ND	28	3.6
Chrysene	ND	28	6.7
Benzo(b)fluoranthene	2.1 J	28	2.1
Benzo(k)fluoranthene	ND	28	5.7
Benzo(a)pyrene	ND	28	6.0
Indeno(1,2,3-cd)pyrene	ND	28	3.9
Dibenz(a,h)anthracene	ND	28	4.1
Benzo(g,h,i)perylene	ND	28	3.7

Surrogate	%REC	Limits
Nitrobenzene-d5	51	39-136
2-Fluorobiphenyl	68	42-120
Terphenyl-d14	77	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

44.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX355[4.0]	Batch#:	131143
Lab ID:	198818-006	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	10/31/07
Diln Fac:	5.000		

Moisture: 14%

Analyte	Result	RL	MDL
Naphthalene	140	29	4.4
2-Methylnaphthalene	34	29	4.2
Acenaphthylene	ND	29	4.8
Acenaphthene	ND	29	3.9
Fluorene	ND	29	4.7
Phenanthrene	8.9 J	29	3.2
Anthracene	ND	29	9.4
Fluoranthene	7.2 J	29	4.1
Pyrene	8.2 J	29	4.2
Benzo(a)anthracene	ND	29	3.8
Chrysene	ND	29	7.0
Benzo(b)fluoranthene	4.7 J	29	2.2
Benzo(k)fluoranthene	ND	29	5.9
Benzo(a)pyrene	ND	29	6.3
Indeno(1,2,3-cd)pyrene	ND	29	4.0
Dibenz(a,h)anthracene	ND	29	4.3
Benzo(g,h,i)perylene	4.3 J	29	3.8

Surrogate	%REC	Limits
Nitrobenzene-d5	1519 *	39-136
2-Fluorobiphenyl	87	42-120
Terphenyl-d14	80	34-130

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

45.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX356[4.0]	Batch#:	131143
Lab ID:	198818-007	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	10/31/07
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL	MDL
Naphthalene	ND	5.2	0.79
2-Methylnaphthalene	ND	5.2	0.77
Acenaphthylene	ND	5.2	0.86
Acenaphthene	ND	5.2	0.70
Fluorene	ND	5.2	0.84
Phenanthrene	ND	5.2	0.58
Anthracene	ND	5.2	1.7
Fluoranthene	ND	5.2	0.75
Pyrene	ND	5.2	0.77
Benzo(a)anthracene	ND	5.2	0.68
Chrysene	ND	5.2	1.3
Benzo(b)fluoranthene	ND	5.2	0.40
Benzo(k)fluoranthene	ND	5.2	1.1
Benzo(a)pyrene	ND	5.2	1.1
Indeno(1,2,3-cd)pyrene	ND	5.2	0.73
Dibenz(a,h)anthracene	ND	5.2	0.77
Benzo(g,h,i)perylene	ND	5.2	0.69

Surrogate	%REC	Limits
Nitrobenzene-d5	39	39-136
2-Fluorobiphenyl	52	42-120
Terphenyl-d14	50	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

46.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX354[4.0]	Batch#:	131143
Lab ID:	198818-010	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	ug/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	11/01/07
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL	MDL
Naphthalene	ND	5.6	0.69
2-Methylnaphthalene	0.49 J	5.6	0.46
Acenaphthylene	ND	5.6	0.74
Acenaphthene	ND	5.6	0.71
Fluorene	ND	5.6	0.58
Phenanthrene	2.1 J	5.6	0.51
Anthracene	ND	5.6	0.94
Fluoranthene	2.1 J	5.6	0.50
Pyrene	2.4 J	5.6	0.50
Benzo(a)anthracene	1.1 J	5.6	0.71
Chrysene	2.4 J	5.6	0.59
Benzo(b)fluoranthene	1.8 J	5.6	0.78
Benzo(k)fluoranthene	ND	5.6	0.85
Benzo(a)pyrene	ND	5.6	0.85
Indeno(1,2,3-cd)pyrene	0.72 J	5.6	0.63
Dibenz(a,h)anthracene	ND	5.6	0.43
Benzo(g,h,i)perylene	1.2 J	5.6	0.48

Surrogate	%REC	Limits
Nitrobenzene-d5	60	39-136
2-Fluorobiphenyl	77	42-120
Terphenyl-d14	68	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

47.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413052	Batch#:	131143
Matrix:	Soil	Prepared:	10/31/07
Units:	ug/Kg	Analyzed:	10/31/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.76
2-Methylnaphthalene	ND	5.0	0.74
Acenaphthylene	ND	5.0	0.83
Acenaphthene	ND	5.0	0.67
Fluorene	ND	5.0	0.81
Phenanthrene	ND	5.0	0.55
Anthracene	ND	5.0	1.6
Fluoranthene	ND	5.0	0.72
Pyrene	ND	5.0	0.74
Benzo(a)anthracene	ND	5.0	0.65
Chrysene	ND	5.0	1.2
Benzo(b)fluoranthene	ND	5.0	0.38
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	1.1
Indeno(1,2,3-cd)pyrene	ND	5.0	0.70
Dibenz(a,h)anthracene	ND	5.0	0.74
Benzo(g,h,i)perylene	ND	5.0	0.66

Surrogate	%REC	Limits
Nitrobenzene-d5	70	39-136
2-Fluorobiphenyl	79	42-120
Terphenyl-d14	77	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

48.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413053	Batch#:	131143
Matrix:	Soil	Prepared:	10/31/07
Units:	ug/Kg	Analyzed:	10/31/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.31	17.95	54	42-120
Pyrene	33.31	19.40	58	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	58	39-136
2-Fluorobiphenyl	70	42-120
Terphenyl-d14	70	34-130

CURTIS & TOMPKINS DFTPP TUNE FOR 198818 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527398033014 File : vj314 Time : 03-OCT-2007 17:27

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	137171	50.69	
68	< 2% of mass 69	0	0.00	
69		140068		
70	< 2% of mass 69	833	0.59	
127	40% - 60% of mass 198	143672	53.09	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	18373	6.79	
275	10% - 30% of mass 198	70624	26.10	
365	> 1% of mass 198	7069	2.61	
441	Present, < mass 443	32829	92.92	
442	> 40% and < 100% of mass 198	177557	65.61	
443	17% - 23% of mass 442	35330	19.90	

Analyst: AD Date: 10/04/07 Reviewer: LW Date: 10/04/07

CURTIS & TOMPKINS DFTPP TUNE FOR 198818 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527398033022 File : vj322 Time : 03-OCT-2007 23:07

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	171945	50.10	
68	< 2% of mass 69	0	0.00	
69		185152		
70	< 2% of mass 69	363	0.20	
127	40% - 60% of mass 198	188352	54.88	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	23960	6.98	
275	10% - 30% of mass 198	99389	28.96	
365	> 1% of mass 198	11010	3.21	
441	Present, < mass 443	52269	86.09	
442	> 40% and < 100% of mass 198	303402	88.40	
443	17% - 23% of mass 442	60714	20.01	

Analyst: AD Date: 10/04/07 Reviewer: LW Date: 10/04/07

CURTIS & TOMPKINS DFTPP TUNE FOR 198818 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527438571002 File : vjv02 Time : 31-OCT-2007 14:26

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	165888	55.25	
68	< 2% of mass 69	0	0.00	
69		148864		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	167360	55.75	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	19064	6.35	
275	10% - 30% of mass 198	87256	29.06	
365	> 1% of mass 198	8090	2.69	
441	Present, < mass 443	31736	79.88	
442	> 40% and < 100% of mass 198	188160	62.67	
443	17% - 23% of mass 442	39728	21.11	

Analyst: JGM Date: 10/31/07 Reviewer: LLH Date: 11/01/07

527438571002

CURTIS & TOMPKINS DFTPP TUNE FOR 198818 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP IDF : 1.0
Seqnum : 577399499007 File : sj407 Time : 04-OCT-2007 14:02

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	56723	51.72	
68	< 2% of mass 69	0	0.00	
69		51520		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	54896	50.05	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	7427	6.77	
275	10% - 30% of mass 198	26024	23.73	
365	> 1% of mass 198	3682	3.36	
441	Present, < mass 443	1730	12.57	
442	> 40% and < 100% of mass 198	71352	65.06	
443	17% - 23% of mass 442	13763	19.29	

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

577399499007

CURTIS & TOMPKINS DFTPP TUNE FOR 198818 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 577438709001 File : sjv01 Time : 31-OCT-2007 15:49

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	102471	57.06	
68	< 2% of mass 69	0	0.00	
69		80785		
70	< 2% of mass 69	300	0.37	
127	40% - 60% of mass 198	87056	48.48	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	13682	7.62	
275	10% - 30% of mass 198	38794	21.60	
365	> 1% of mass 198	6054	3.37	
441	Present, < mass 443	9821	49.36	
442	> 40% and < 100% of mass 198	107840	60.05	
443	17% - 23% of mass 442	19896	18.45	

Analyst: JGM Date: 10/31/07 Reviewer: LLH Date: 11/01/07

577438709001

CURTIS & TOMPKINS DFTPP TUNE FOR 198818 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 577439779001 File : sk101 Time : 01-NOV-2007 09:39

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	124133	49.28	
68	< 2% of mass 69	0	0.00	
69		102947		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	119589	47.47	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	18795	7.46	
275	10% - 30% of mass 198	55844	22.17	
365	> 1% of mass 198	8845	3.51	
441	Present, < mass 443	24856	84.67	
442	> 40% and < 100% of mass 198	154178	61.21	
443	17% - 23% of mass 442	29355	19.04	

Analyst: LLH Date: 11/01/07 Reviewer: JGM Date: 11/02/07

577439779001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 527398033002
Units : ug/mL

Name : 3PAHSIM
Date : 03-OCT-2007 17:53
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vj315	527398033015	0.1/0.5UG/ML	03-OCT-2007 17:53	S7213
L2	vj316	527398033016	0.2/1.0UG/ML	03-OCT-2007 18:27	S7214
L3	vj317	527398033017	0.5/2.5UG/ML	03-OCT-2007 19:04	S7215
L4	vj318	527398033018	1.0/5.0UG/ML	03-OCT-2007 19:40	S7216
L5	vj319	527398033019	2.0/10UG/ML	03-OCT-2007 20:13	S7217
L6	vj320	527398033020	5.0/25UG/ML	03-OCT-2007 20:47	S7218
L7	vj321	527398033021	10/50UG/ML	03-OCT-2007 21:21	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	0.9912	1.0418	1.1149	1.1383	1.1653	1.1632	1.1411	AVRG		0.90255		1.1080	6	15	0.05	0.99	
2-Methylnaphthalene	0.4694m	0.4173	0.4958	0.5801	0.6403	0.6991	0.7043	LINR	0.12446	1.40312		0.5723	1.000	15	0.05	0.99	
Acenaphthylene	1.6306m	1.6063m	1.6666	1.8545	1.8770	1.9545	1.8841	AVRG		0.56119		1.7819	8	15	0.05	0.99	
Acenaphthene	1.0913m	1.0852m	1.0917	1.1369	1.1466	1.1680	1.1282	AVRG		0.89197		1.1211	3	15	0.05	0.99	
Fluorene	1.0496	1.0746	1.1628	1.3581	1.3583	1.4054	1.3690	AVRG		0.79746		1.2540	12	15	0.05	0.99	
Phenanthrene	1.1118	0.9583	1.0211	1.0541	1.0929	1.2222	1.1769	AVRG		0.91655		1.0910	8	15	0.05	0.99	
Anthracene	1.2800m	1.1744m	1.2487m	1.2291m	1.2260m	1.3107m	1.2284m	AVRG		0.80485		1.2425	4	15	0.05	0.99	
Fluoranthene	1.2755	1.1855	1.3022	1.3445	1.3584	1.4744	1.3449	AVRG		0.75386		1.3265	7	15	0.05	0.99	
Pyrene	1.3223m	1.3179m	1.2208	1.2553	1.2930	1.3463	1.3049	AVRG		0.77258		1.2944	3	15	0.05	0.99	
Benzo(a)anthracene	0.8756	0.8716	0.9015	0.9907	1.0985	1.1437	1.1183	AVRG		1.00002		1.0000	12	15	0.05	0.99	
Chrysene	1.3995m	1.4239m	1.3953m	1.4051m	1.3740m	1.3451m	1.2479	AVRG		0.72985		1.3701	4	15	0.05	0.99	
Benzo(b)fluoranthene	0.8780	0.9389	1.0061	1.1290	1.2690			AVRG		0.95768		1.0442	15	15	0.05	0.99	
Benzo(k)fluoranthene	1.5780m	1.6659m	1.7032m	1.7246m	1.5912	1.6720m	1.4695	AVRG		0.61380		1.6292	5	15	0.05	0.99	
Benzo(a)pyrene	0.9747	1.2110m	1.2212	1.3019	1.3036	1.3672	1.3060	AVRG		0.80593		1.2408	10	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.0058m	0.9775	1.0798	1.1781	1.2364	1.2978	1.2547	AVRG		0.87172		1.1472	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.7342	0.8049	0.8634	0.9415	0.9835	1.0589	1.0335	AVRG		1.09036		0.9171	13	15	0.05	0.99	
Benzo(g,h,i)perylene	0.8652m	0.9113m	0.9797m	0.9688	0.9723	0.9937	0.9532	AVRG		1.05355		0.9492	5	15	0.05	0.99	
Nitrobenzene-d5		0.2130m	0.1994m	0.2112m	0.2111m	0.2706m		AVRG		4.52357		0.2211	13	15	0.05	0.99	
2-Fluorobiphenyl	1.1713m	1.1041m	1.0420	1.1869	1.1688	1.3622	1.3123	AVRG		0.83856		1.1925	9	15	0.05	0.99	
Terphenyl-d14	0.8060	0.8782m	0.8638	0.8936	0.9291	0.9685	0.9496	AVRG		1.11307		0.8984	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-11	0.200	-6	0.500	1	1.000	3	2.000	5	5.000	5	10.00	3
2-Methylnaphthalene	0.100	90	0.200	21	0.500	-6	1.000	-6	2.000	-4	5.000	1	10.00	0
Acenaphthylene	0.100	-8	0.200	-10	0.500	-6	1.000	4	2.000	5	5.000	10	10.00	6
Acenaphthene	0.100	-3	0.200	-3	0.500	-3	1.000	1	2.000	2	5.000	4	10.00	1
Fluorene	0.100	-16	0.200	-14	0.500	-7	1.000	8	2.000	8	5.000	12	10.00	9
Phenanthrene	0.100	2	0.200	-12	0.500	-6	1.000	-3	2.000	0	5.000	12	10.00	8
Anthracene	0.100	3	0.200	-5	0.500	1	1.000	-1	2.000	-1	5.000	5	10.00	-1
Fluoranthene	0.100	-4	0.200	-11	0.500	-2	1.000	1	2.000	2	5.000	11	10.00	1
Pyrene	0.100	2	0.200	2	0.500	-6	1.000	-3	2.000	0	5.000	4	10.00	1
Benzo(a)anthracene	0.100	-12	0.200	-13	0.500	-10	1.000	-1	2.000	10	5.000	14	10.00	12
Chrysene	0.100	2	0.200	4	0.500	2	1.000	3	2.000	0	5.000	-2	10.00	-9
Benzo(b)fluoranthene	0.100	-16	0.200	-10	0.500	-4	1.000	8	2.000	22				
Benzo(k)fluoranthene	0.100	-3	0.200	2	0.500	5	1.000	6	2.000	-2	5.000	3	10.00	-10
Benzo(a)pyrene	0.100	-21	0.200	-2	0.500	-2	1.000	5	2.000	5	5.000	10	10.00	5
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-15	0.500	-6	1.000	3	2.000	8	5.000	13	10.00	9
Dibenz(a,h)anthracene	0.100	-20	0.200	-12	0.500	-6	1.000	3	2.000	7	5.000	15	10.00	13
Benzo(g,h,i)perylene	0.100	-9	0.200	-4	0.500	3	1.000	2	2.000	2	5.000	5	10.00	0
Nitrobenzene-d5			0.200	-4	0.500	-10	1.000	-4	2.000	-5	5.000	22		
2-Fluorobiphenyl	0.100	-2	0.200	-7	0.500	-13	1.000	0	2.000	-2	5.000	14	10.00	10
Terphenyl-d14	0.100	-10	0.200	-2	0.500	-4	1.000	-1	2.000	3	5.000	8	10.00	6

AD 10/04/07 : Manual integrations due to tailing/splitting of peaks.

Analyst: AD Date: 10/04/07 Reviewer: LW Date: 10/04/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

527398033002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Name : 3PAHSIM
Calnum : 527398033002 Cal Date : 03-OCT-2007

ICV 527398033023 (vj323 03-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1080	1.0518	1.000	0.9493	ug/mL	-5	20	
2-Methylnaphthalene	0.5723	0.5369	1.000	0.8777	ug/mL	-12	20	
Acenaphthylene	1.7819	1.6463	1.000	0.9239	ug/mL	-8	20	
Acenaphthene	1.1211	1.0583	1.000	0.9439	ug/mL	-6	20	
Fluorene	1.2540	1.2302	1.000	0.9810	ug/mL	-2	20	
Phenanthrene	1.0910	0.9725	1.000	0.8914	ug/mL	-11	20	
Anthracene	1.2425	1.1671	1.000	0.9394	ug/mL	-6	20	m
Fluoranthene	1.3265	1.2214	1.000	0.9208	ug/mL	-8	20	
Pyrene	1.2944	1.2661	1.000	0.9782	ug/mL	-2	20	
Benzo(a)anthracene	1.0000	0.9792	1.000	0.9792	ug/mL	-2	20	
Chrysene	1.3701	1.2460	1.000	0.9094	ug/mL	-9	20	
Benzo(b)fluoranthene	1.0442	1.0549	1.000	1.010	ug/mL	1	20	
Benzo(k)fluoranthene	1.6292	1.5403	1.000	0.9454	ug/mL	-5	20	
Benzo(a)pyrene	1.2408	1.1893	1.000	0.9585	ug/mL	-4	20	
Indeno(1,2,3-cd)pyrene	1.1472	0.9645	1.000	0.8408	ug/mL	-16	20	m
Dibenz(a,h)anthracene	0.9171	0.7652	1.000	0.8343	ug/mL	-17	20	
Benzo(g,h,i)perylene	0.9492	0.8832	1.000	0.9305	ug/mL	-7	20	m

m=manual integration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198818 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA08
Calnum : 577399499001
Units : ug/mL

Name : 8PAHSIM
Date : 04-OCT-2007 14:22
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sj408	577399499008	ICAL 1	04-OCT-2007 14:22	S7213
L2	sj409	577399499009	ICAL 2	04-OCT-2007 14:56	S7214
L3	sj410	577399499010	ICAL 3	04-OCT-2007 15:30	S7215
L4	sj411	577399499011	ICAL 4	04-OCT-2007 16:04	S7216
L5	sj412	577399499012	ICAL 5	04-OCT-2007 16:39	S7217
L6	sj413	577399499013	ICAL 6	04-OCT-2007 17:12	S7218
L7	sj414	577399499014	ICAL 7	04-OCT-2007 17:48	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0279	1.0515	1.0576	1.0897	1.1167	1.1535	1.2380	AVRG		0.90498		1.1050	7	15	0.05	0.99	
2-Methylnaphthalene	0.6403m	0.6568m	0.6877m	0.7160	0.7280m	0.7787	0.8453	AVRG		1.38539		0.7218	10	15	0.05	0.99	
Acenaphthylene	1.7392	1.8386	1.9029	1.9958	2.0197	2.1992	2.3361	AVRG		0.49888		2.0045	10	15	0.05	0.99	
Acenaphthene	1.0019	1.0569	1.0675	1.1020	1.1192	1.2126	1.2895	AVRG		0.89178		1.1214	9	15	0.05	0.99	
Fluorene	1.1914	1.2346	1.2475	1.3164	1.3582	1.4628	1.5782	AVRG		0.74555		1.3413	10	15	0.05	0.99	
Phenanthrene	1.1189m	1.1515	1.1377	1.1762	1.2097	1.2929	1.3921	AVRG		0.82557		1.2113	8	15	0.05	0.99	
Anthracene	0.9378m	1.0065m	1.0433m	1.0988m	1.1294m	1.2291m	1.3229m	AVRG		0.90116		1.1097	12	15	0.05	0.99	
Fluoranthene	1.1865	1.2445	1.2562	1.3463	1.3710	1.4915	1.6034	AVRG		0.73688		1.3571	11	15	0.05	0.99	
Pyrene	1.1893	1.2221	1.2595	1.2855	1.3234	1.3731	1.3996	AVRG		0.77327		1.2932	6	15	0.05	0.99	
Benzo(a)anthracene	1.0258	1.0731	1.0847	1.1222	1.1667	1.2004	1.2265	AVRG		0.88614		1.1285	6	15	0.05	0.99	
Chrysene	1.0339m	1.0823m	1.0962m	1.1245m	1.1405m	1.1794m	1.1936m	AVRG		0.89167		1.1215	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.1368	1.2311	1.2480	1.3220	1.3494	1.4862	1.5129	AVRG		0.75379		1.3266	10	15	0.05	0.99	
Benzo(k)fluoranthene	1.1967m	1.2520m	1.3252m	1.3825m	1.4218m	1.5105m	1.5616m	AVRG		0.72536		1.3786	10	15	0.05	0.99	
Benzo(a)pyrene	1.0597	1.1129	1.1625	1.2451	1.3016	1.4106	1.4795	AVRG		0.79800		1.2531	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2909	1.4000	1.4491	1.5667	1.6263	1.7915	1.8456	AVRG		0.63810		1.5672	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9958	1.0914	1.1341	1.2279	1.2881	1.4330	1.5289	AVRG		0.80467		1.2427	15	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1512	1.2277	1.2880	1.3571	1.3963	1.5107	1.5496	AVRG		0.73834		1.3544	11	15	0.05	0.99	
Nitrobenzene-d5	0.2170	0.2239	0.2350	0.2499	0.2509	0.2690	0.2799	AVRG		4.05662		0.2465	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2568	1.2885	1.3273	1.3749	1.4096	1.5071	1.5747	AVRG		0.71877		1.3913	8	15	0.05	0.99	
Terphenyl-d14	0.9554	0.9851	1.0067	1.0248	1.0466	1.0897	1.1118	AVRG		0.96951		1.0314	5	15	0.05	0.99	

00223

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-7	0.200	-5	0.500	-4	1.000	-1	2.000	1	5.000	4	10.00	12
2-Methylnaphthalene	0.100	-11	0.200	-9	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	17
Acenaphthylene	0.100	-13	0.200	-8	0.500	-5	1.000	0	2.000	1	5.000	10	10.00	17
Acenaphthene	0.100	-11	0.200	-6	0.500	-5	1.000	-2	2.000	0	5.000	8	10.00	15
Fluorene	0.100	-11	0.200	-8	0.500	-7	1.000	-2	2.000	1	5.000	9	10.00	18
Phenanthrene	0.100	-8	0.200	-5	0.500	-6	1.000	-3	2.000	0	5.000	7	10.00	15
Anthracene	0.100	-15	0.200	-9	0.500	-6	1.000	-1	2.000	2	5.000	11	10.00	19
Fluoranthene	0.100	-13	0.200	-8	0.500	-7	1.000	-1	2.000	1	5.000	10	10.00	18
Pyrene	0.100	-8	0.200	-6	0.500	-3	1.000	-1	2.000	2	5.000	6	10.00	8
Benzo(a)anthracene	0.100	-9	0.200	-5	0.500	-4	1.000	-1	2.000	3	5.000	6	10.00	9
Chrysene	0.100	-8	0.200	-3	0.500	-2	1.000	0	2.000	2	5.000	5	10.00	6
Benzo(b)fluoranthene	0.100	-14	0.200	-7	0.500	-6	1.000	0	2.000	2	5.000	12	10.00	14
Benzo(k)fluoranthene	0.100	-13	0.200	-9	0.500	-4	1.000	0	2.000	3	5.000	10	10.00	13
Benzo(a)pyrene	0.100	-15	0.200	-11	0.500	-7	1.000	-1	2.000	4	5.000	13	10.00	18
Indeno(1,2,3-cd)pyrene	0.100	-18	0.200	-11	0.500	-8	1.000	0	2.000	4	5.000	14	10.00	18
Dibenz(a,h)anthracene	0.100	-20	0.200	-12	0.500	-9	1.000	-1	2.000	4	5.000	15	10.00	23
Benzo(g,h,i)perylene	0.100	-15	0.200	-9	0.500	-5	1.000	0	2.000	3	5.000	12	10.00	14
Nitrobenzene-d5	0.100	-12	0.200	-9	0.500	-5	1.000	1	2.000	2	5.000	9	10.00	14
2-Fluorobiphenyl	0.100	-10	0.200	-7	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	13
Terphenyl-d14	0.100	-7	0.200	-4	0.500	-2	1.000	-1	2.000	1	5.000	6	10.00	8

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198818 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08
Calnum : 577399499001

Name : 8PAHSIM
Cal Date : 04-OCT-2007

ICV 577399499015 (sj415 04-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1050	0.9959	1.000	0.9013	ug/mL	-10	20	
2-Methylnaphthalene	0.7218	0.6131	1.000	0.8493	ug/mL	-15	20	
Acenaphthylene	2.0045	1.8534	1.000	0.9246	ug/mL	-8	20	
Acenaphthene	1.1214	1.0220	1.000	0.9114	ug/mL	-9	20	
Fluorene	1.3413	1.2206	1.000	0.9100	ug/mL	-9	20	
Phenanthrene	1.2113	1.0804	1.000	0.8920	ug/mL	-11	20	
Anthracene	1.1097	1.0862	1.000	0.9788	ug/mL	-2	20	m
Fluoranthene	1.3571	1.2300	1.000	0.9064	ug/mL	-9	20	
Pyrene	1.2932	1.2487	1.000	0.9656	ug/mL	-3	20	
Benzo(a)anthracene	1.1285	1.0658	1.000	0.9445	ug/mL	-6	20	
Chrysene	1.1215	1.0593	1.000	0.9445	ug/mL	-6	20	
Benzo(b)fluoranthene	1.3266	1.2480	1.000	0.9407	ug/mL	-6	20	
Benzo(k)fluoranthene	1.3786	1.3256	1.000	0.9615	ug/mL	-4	20	m
Benzo(a)pyrene	1.2531	1.1779	1.000	0.9399	ug/mL	-6	20	
Indeno(1,2,3-cd)pyrene	1.5672	1.4401	1.000	0.9189	ug/mL	-8	20	
Dibenz(a,h)anthracene	1.2427	1.1897	1.000	0.9574	ug/mL	-4	20	
Benzo(g,h,i)perylene	1.3544	1.2837	1.000	0.9478	ug/mL	-5	20	

m=manual integration

577399499001 ICVs

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 527438571003.1 File : vjv03 Time : 31-OCT-2007 14:47
Cal : 527398033002 Caldate : 03-OCT-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1080	1.1135	1.000	1.005	ug/mL	1	20	0.0500	
2-Methylnaphthalene	0.5723	0.6373	1.000	1.019	ug/mL	2	20	0.0500	
Acenaphthylene	1.7819	1.8326	1.000	1.028	ug/mL	3	20	0.0500	
Acenaphthene	1.1211	1.1145	1.000	0.9941	ug/mL	-1	20	0.0500	
Fluorene	1.2540	1.3756	1.000	1.097	ug/mL	10	20	0.0500	
Phenanthrene	1.0910	1.2592	1.000	1.154	ug/mL	15	20	0.0500	
Anthracene	1.2425	1.2012	1.000	0.9668	ug/mL	-3	20	0.0500	
Fluoranthene	1.3265	1.4314	1.000	1.079	ug/mL	8	20	0.0500	
Pyrene	1.2944	1.3160	1.000	1.017	ug/mL	2	20	0.0500	
Benzo(a)anthracene	1.0000	1.0100	1.000	1.010	ug/mL	1	20	0.0500	
Chrysene	1.3701	1.2361	1.000	0.9022	ug/mL	-10	20	0.0500	
Benzo(b)fluoranthene	1.0442	1.2076	1.000	1.157	ug/mL	16	20	0.0500	
Benzo(k)fluoranthene	1.6292	1.4747	1.000	0.9052	ug/mL	-9	20	0.0500	
Benzo(a)pyrene	1.2408	1.2091	1.000	0.9745	ug/mL	-3	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1472	1.3249	1.000	1.155	ug/mL	15	20	0.0500	
Dibenz(a,h)anthracene	0.9171	1.0661	1.000	1.163	ug/mL	16	20	0.0500	
Benzo(g,h,i)perylene	0.9492	1.1431	1.000	1.204	ug/mL	20	20	0.0500	
Nitrobenzene-d5	0.2211	0.2120	1.000	0.9588	ug/mL	-4	20	0.0500	
2-Fluorobiphenyl	1.1925	1.1986	1.000	1.005	ug/mL	1	20	0.0500	
Terphenyl-d14	0.8984	0.9055	1.000	1.008	ug/mL	1	20	0.0500	

Analyst: LLH Date: 11/01/07 Reviewer: JGM Date: 11/02/07

527438571003.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Run Name : CCV4 IDF : 1.0
Seqnum : 577438709002.1 File : sjv02 Time : 31-OCT-2007 16:11
Cal : 577399499001 Caldate : 04-OCT-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1050	1.0667	1.000	0.9653	ug/mL	-3	20	0.0500	
2-Methylnaphthalene	0.7218	0.6837	1.000	0.9471	ug/mL	-5	20	0.0500	m
Acenaphthylene	2.0045	1.9510	1.000	0.9733	ug/mL	-3	20	0.0500	
Acenaphthene	1.1214	1.2079	1.000	1.077	ug/mL	8	20	0.0500	
Fluorene	1.3413	1.4488	1.000	1.080	ug/mL	8	20	0.0500	
Phenanthrene	1.2113	1.1368	1.000	0.9385	ug/mL	-6	20	0.0500	
Anthracene	1.1097	1.0314	1.000	0.9295	ug/mL	-7	20	0.0500	m
Fluoranthene	1.3571	1.2704	1.000	0.9361	ug/mL	-6	20	0.0500	
Pyrene	1.2932	1.2924	1.000	0.9993	ug/mL	0	20	0.0500	
Benzo(a)anthracene	1.1285	1.0378	1.000	0.9196	ug/mL	-8	20	0.0500	
Chrysene	1.1215	1.1206	1.000	0.9992	ug/mL	0	20	0.0500	m
Benzo(b)fluoranthene	1.3266	1.3410	1.000	1.011	ug/mL	1	20	0.0500	
Benzo(k)fluoranthene	1.3786	1.4069	1.000	1.021	ug/mL	2	20	0.0500	m
Benzo(a)pyrene	1.2531	1.2084	1.000	0.9643	ug/mL	-4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.5672	1.3233	1.000	0.8444	ug/mL	-16	20	0.0500	
Dibenz(a,h)anthracene	1.2427	1.0450	1.000	0.8409	ug/mL	-16	20	0.0500	
Benzo(g,h,i)perylene	1.3544	1.1091	1.000	0.8189	ug/mL	-18	20	0.0500	
Nitrobenzene-d5	0.2465	0.2059	1.000	0.8351	ug/mL	-16	20	0.0500	m
2-Fluorobiphenyl	1.3913	1.4940	1.000	1.074	ug/mL	7	20	0.0500	
Terphenyl-d14	1.0314	1.0627	1.000	1.030	ug/mL	3	20	0.0500	

Analyst: LLH Date: 11/01/07 Reviewer: JGM Date: 11/02/07

m=manual integration

577438709002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198818 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Run Name : 1.0/5.0 UG/ML IDF : 1.0
Seqnum : 577439779002.1 File : sk102 Time : 01-NOV-2007 09:59
Cal : 577399499001 Caldate : 04-OCT-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1050	1.0748	1.000	0.9727	ug/mL	-3	20	0.0500	
2-Methylnaphthalene	0.7218	0.6829	1.000	0.9461	ug/mL	-5	20	0.0500	m
Acenaphthylene	2.0045	1.9753	1.000	0.9854	ug/mL	-1	20	0.0500	
Acenaphthene	1.1214	1.1862	1.000	1.058	ug/mL	6	20	0.0500	
Fluorene	1.3413	1.4406	1.000	1.074	ug/mL	7	20	0.0500	
Phenanthrene	1.2113	1.1405	1.000	0.9416	ug/mL	-6	20	0.0500	
Anthracene	1.1097	1.0662	1.000	0.9608	ug/mL	-4	20	0.0500	m
Fluoranthene	1.3571	1.3029	1.000	0.9601	ug/mL	-4	20	0.0500	
Pyrene	1.2932	1.2583	1.000	0.9730	ug/mL	-3	20	0.0500	
Benzo(a)anthracene	1.1285	1.0339	1.000	0.9162	ug/mL	-8	20	0.0500	
Chrysene	1.1215	1.1184	1.000	0.9973	ug/mL	0	20	0.0500	m
Benzo(b)fluoranthene	1.3266	1.3062	1.000	0.9846	ug/mL	-2	20	0.0500	
Benzo(k)fluoranthene	1.3786	1.4443	1.000	1.048	ug/mL	5	20	0.0500	m
Benzo(a)pyrene	1.2531	1.1902	1.000	0.9498	ug/mL	-5	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.5672	1.4218	1.000	0.9073	ug/mL	-9	20	0.0500	
Dibenz(a,h)anthracene	1.2427	1.1096	1.000	0.8929	ug/mL	-11	20	0.0500	
Benzo(g,h,i)perylene	1.3544	1.2363	1.000	0.9128	ug/mL	-9	20	0.0500	
Nitrobenzene-d5	0.2465	0.2164	1.000	0.8780	ug/mL	-12	20	0.0500	m
2-Fluorobiphenyl	1.3913	1.4898	1.000	1.071	ug/mL	7	20	0.0500	
Terphenyl-d14	1.0314	0.9697	1.000	0.9401	ug/mL	-6	20	0.0500	

Analyst: LLH Date: 11/01/07 Reviewer: JGM Date: 11/02/07

m=manual integration

577439779002.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 527438571

Date : 10/31/07
Sequence : MSBNA03 vjv

Reference : vjv03
Analyzed : 10/31/07 14:47

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	6013	7.38	123166	8.96	88214	11.23	132080	13.19	144567	16.63	138628	18.35
		LOWER LIMIT	3007	6.88	61583	8.46	44107	10.73	66040	12.69	72284	16.13	69314	17.85
		UPPER LIMIT	12026	7.88	246332	9.46	176428	11.73	264160	13.69	289134	17.13	277256	18.85
003	CCV	1/5UG/ML	6013	7.38	123166	8.96	88214	11.23	132080	13.19	144567	16.63	138628	18.35
004	BLANK	QC413052	39572 *	7.34	135952	8.95	93712	11.23	152586	13.18	146148	16.63	144746	18.36
005	LCS	QC413053	37277 *	7.34	128640	8.95	91204	11.23	136690	13.18	153105	16.63	140897	18.36
006	SAMPLE	198818-010	23052 *	7.37	115527	8.95	80780	11.23	119277	13.19	143452	16.63	145911	18.35
007	SAMPLE	198818-007	31530 *	7.35	113560	8.95	87488	11.23	133440	13.19	148568	16.63	151774	18.35
008	SAMPLE	198818-003	28102 *	7.37	107664	8.96	82458	11.24	127785	13.19	133625	16.63	141203	18.36
009	MSS	198818-004	6235	7.42	118449	8.95	86112	11.23	124896	13.18	135602	16.63	129009	18.36
010	SAMPLE	198818-005	29852 *	7.35	114322	8.95	84855	11.23	137131	13.19	141761	16.63	133118	18.36
011	SAMPLE	198818-006	16321 *	7.42	126514	8.95	87979	11.23	132636	13.18	137331	16.63	132942	18.36
012	SAMPLE	198767-001	24403 *	7.37	119637	8.95	89998	11.23	144131	13.19	151947	16.63	154259	18.35
013	SAMPLE	198767-002	26292 *	7.37	115768	8.96	85338	11.23	141655	13.19	146864	16.63	150019	18.36
014	SAMPLE	198767-008	29290 *	7.37	114440	8.95	86831	11.23	141858	13.19	145547	16.63	147543	18.36
015	SAMPLE	198767-009	25938 *	7.37	106947	8.96	82332	11.23	125580	13.19	132448	16.63	140445	18.36
016	SAMPLE	198767-010	26271 *	7.37	107858	8.96	82024	11.24	131944	13.19	133488	16.63	134679	18.36
017	SAMPLE	198767-011	22726 *	7.36	109806	8.96	82388	11.23	118533	13.19	134731	16.63	141894	18.36

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 577438709

Date : 10/31/07
Sequence : MSBNA08 sjv

Reference : sjv02
Analyzed : 10/31/07 16:11

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	30870	9.06	124404	10.66	75784	12.88	138297	14.79	136312	18.35	100595	20.29
		LOWER LIMIT	15435	8.56	62202	10.16	37892	12.38	69149	14.29	68156	17.85	50298	19.79
		UPPER LIMIT	61740	9.56	248808	11.16	151568	13.38	276594	15.29	272624	18.85	201190	20.79
002	CCV	CCV4	30870	9.06	124404	10.66	75784	12.88	138297	14.79	136312	18.35	100595	20.29
003	SAMPLE	198811-001	34268	9.06	128324	10.66	78286	12.88	146099	14.79	137464	18.35	108800	20.29
004	SAMPLE	198811-002	34682	9.05	134691	10.66	81983	12.88	152314	14.78	147010	18.35	114149	20.29
005	SAMPLE	198811-003	36026	9.06	143867	10.66	85184	12.88	158306	14.78	154554	18.35	124801	20.29
006	SAMPLE	198818-001	40061	9.05	158897	10.65	89302	12.89	158970	14.79	144339	18.35	112608	20.29
007	SAMPLE	198818-002	40504	9.05	178193	10.65	96162	12.88	169733	14.78	159337	18.35	124937	20.29
008	SAMPLE	198767-003	38003	9.06	147916	10.66	93402	12.88	167145	14.78	156670	18.35	122125	20.29
009	SAMPLE	198767-004	38479	9.06	153583	10.66	93783	12.88	169427	14.78	158144	18.35	122891	20.29
010	SAMPLE	198767-007	38179	9.06	149417	10.66	92696	12.88	168351	14.78	158874	18.35	122717	20.29

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 577439779

Date : 11/01/07
Sequence : MSBNA08 sk1

Reference : sk102
Analyzed : 11/01/07 09:59

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	42896	9.05	160181	10.65	93379	12.88	168091	14.78	173519	18.35	134988	20.29
		LOWER LIMIT	21448	8.55	80091	10.15	46690	12.38	84046	14.28	86760	17.85	67494	19.79
		UPPER LIMIT	85792	9.55	320362	11.15	186758	13.38	336182	15.28	347038	18.85	269976	20.79
002	CCV	1.0/5.0 UG/ML	42896	9.05	160181	10.65	93379	12.88	168091	14.78	173519	18.35	134988	20.29
003	SAMPLE	198767-001	43934	9.04	158956	10.65	95307	12.88	171049	14.78	174429	18.35	149038	20.29
004	SAMPLE	198767-002	45290	9.04	162478	10.65	96588	12.88	172694	14.78	171329	18.35	145060	20.29
005	SAMPLE	198767-008	45291	9.04	162865	10.65	95350	12.88	173817	14.78	176421	18.35	148054	20.28
006	SAMPLE	198767-009	45125	9.05	161014	10.66	97682	12.88	173592	14.78	172577	18.35	149469	20.29
007	SAMPLE	198767-010	46126	9.05	163072	10.66	97109	12.88	171454	14.78	174794	18.35	148269	20.29
008	SAMPLE	198767-011	47333	9.05	172095	10.66	99770	12.88	181966	14.78	184484	18.35	159540	20.29
009	SAMPLE	198767-007	47795	9.05	172708	10.65	102079	12.88	182980	14.79	182309	18.35	159449	20.29
010	SAMPLE	198767-004	48930	9.05	177544	10.65	103681	12.88	186022	14.78	188023	18.35	160395	20.29
011	SAMPLE	198818-003	48498	9.05	173322	10.66	102306	12.88	190073	14.78	191838	18.35	165559	20.29
012	SAMPLE	198818-010	47927	9.05	177070	10.66	100677	12.88	184642	14.78	187363	18.35	165647	20.29

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527398033

Instrument : MSBNA03 Begun : 10/03/07 09:53
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vj301	TUN	DFTPP/PEM 50UG/ML			10/03/07 09:53	1.0	1
002	vj302	TUN	DFTPP/PEM 50UG/ML			10/03/07 10:30	1.0	1
003	vj303	TUN	DFTPP/PEM 50UG/ML			10/03/07 11:37	1.0	1
004	vj304	CCV	2/10UG/ML RTCHECK			10/03/07 11:58	1.0	2
005	vj305	TUN	DFTPP/PEM 50UG/ML			10/03/07 13:21	1.0	1
006	vj306	TUN	DFTPP/PEM 50UG/ML			10/03/07 13:48	1.0	1
007	vj307	TUN	DFTPP/PEM 50UG/ML			10/03/07 14:04	1.0	1
008	vj308	TUN	DFTPP/PEM 50UG/ML			10/03/07 14:30	1.0	1
010	vj310	TUN	DFTPP/PEM 50UG/ML			10/03/07 15:08	1.0	1
011	vj311	ICAL	0.1/0.5 UG/ML			10/03/07 15:47	1.0	3
012	vj312	ICAL	0.2/1.0 UG/ML			10/03/07 16:20	1.0	4
013	vj313	ICAL	0.5/2.5 UG/ML			10/03/07 16:55	1.0	5
014	vj314	TUN	DFTPP/PEM 50UG/ML			10/03/07 17:27	1.0	1
015	vj315	ICAL	0.1/0.5UG/ML			10/03/07 17:53	1.0	3
016	vj316	ICAL	0.2/1.0UG/ML			10/03/07 18:27	1.0	4
017	vj317	ICAL	0.5/2.5UG/ML			10/03/07 19:04	1.0	5
018	vj318	ICAL	1.0/5.0UG/ML			10/03/07 19:40	1.0	6
019	vj319	ICAL	2.0/10UG/ML			10/03/07 20:13	1.0	2
020	vj320	ICAL	5.0/25UG/ML			10/03/07 20:47	1.0	7
021	vj321	ICAL	10/50UG/ML			10/03/07 21:21	1.0	8
022	vj322	TUN	DFTPP/PEM 50UG/ML			10/03/07 23:07	1.0	1
023	vj323	ICV	1/10 UG/ML			10/03/07 23:26	1.0	9

AD 10/03/07 : Sequence entry error - skipped file vj309.

AD 10/03/07 : ICAL restarted due to grouping start for fluorene.

AD 10/04/07 : Baseline of manual integration for nitrobenzene-d5 does not display in all spectal pages of ICAL files. Integrations of this compound are consistent and appropriate.

Analyst: AD Date: 10/04/07 Reviewer: LW Date: 10/04/07

Standards used: 1=S7320 2=S7217 3=S7213 4=S7214 5=S7215 6=S7216 7=S7218 8=S7219 9=S6709

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527438571

Instrument : MSBNA03 Begun : 10/31/07 13:31
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vjv01	TUN	DFTPP/PEM 50UG/ML			10/31/07 13:31	1.0	1
002	vjv02	TUN	DFTPP/PEM 50UG/ML			10/31/07 14:26	1.0	1
003	vjv03	CCV	1/5UG/ML			10/31/07 14:47	1.0	2
004	vjv04	BLANK	QC413052	Soil	131143	10/31/07 16:42	1.0	3
005	vjv05	LCS	QC413053	Soil	131143	10/31/07 17:16	1.0	3
006	vjv06	SAMPLE	198818-010	Soil	131143	10/31/07 17:51	5.0	3
007	vjv07	SAMPLE	198818-007	Soil	131143	10/31/07 18:27	1.0	3
008	vjv08	SAMPLE	198818-003	Soil	131143	10/31/07 19:03	5.0	3
009	vjv09	MSS	198818-004	Soil	131143	10/31/07 19:37	20.0	3
010	vjv10	SAMPLE	198818-005	Soil	131143	10/31/07 19:12	5.0	3
011	vjv11	SAMPLE	198818-006	Soil	131143	10/31/07 19:46	5.0	3
012	vjv12	SAMPLE	198767-001	Soil	131143	10/31/07 20:20	5.0	3
013	vjv13	SAMPLE	198767-002	Soil	131143	10/31/07 20:54	5.0	3
014	vjv14	SAMPLE	198767-008	Soil	131143	10/31/07 21:29	5.0	3
015	vjv15	SAMPLE	198767-009	Soil	131143	10/31/07 22:04	5.0	3
016	vjv16	SAMPLE	198767-010	Soil	131143	10/31/07 22:39	5.0	3
017	vjv17	SAMPLE	198767-011	Soil	131143	10/31/07 23:14	5.0	3

Standards used: 1=S7320 2=S7216 3=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577399499

Instrument : MSBNA08 Begun : 10/04/07 10:19
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	sj402	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:19	1.0	1
003	sj403	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:39	1.0	1
004	sj404	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:53	1.0	1
005	sj405	CCV	CCV RT CHECK			10/04/07 12:22	1.0	2
006	sj406	CCV	CCV RT CHECK			10/04/07 13:22	1.0	3
007	sj407	TUN	DFTPP			10/04/07 14:02	1.0	1
008	sj408	ICAL	ICAL 1			10/04/07 14:22	1.0	4
009	sj409	ICAL	ICAL 2			10/04/07 14:56	1.0	5
010	sj410	ICAL	ICAL 3			10/04/07 15:30	1.0	3
011	sj411	ICAL	ICAL 4			10/04/07 16:04	1.0	2
012	sj412	ICAL	ICAL 5			10/04/07 16:39	1.0	6
013	sj413	ICAL	ICAL 6			10/04/07 17:12	1.0	7
014	sj414	ICAL	ICAL 7			10/04/07 17:48	1.0	8
015	sj415	ICV	ICV			10/04/07 18:23	1.0	9
016	sj416	TUN	DFTPP			10/04/07 18:58	1.0	1
017	sj417	CCV	CCV 4			10/04/07 19:18	1.0	2
018	sj418	SAMPLE	198013-014	Soil	130099	10/04/07 19:58	1.0	10
019	sj419	BLANK	QC408688	Soil	130099	10/04/07 20:32	1.0	10
020	sj420	LCS	QC408689	Soil	130099	10/04/07 21:07	1.0	10
021	sj421	SAMPLE	198013-016	Soil	130099	10/04/07 21:42	1.0	10
022	sj422	MSS	198013-018	Soil	130099	10/04/07 22:16	1.0	10
023	sj423	MS	QC408690	Soil	130099	10/04/07 22:51	1.0	10
024	sj424	MSD	QC408691	Soil	130099	10/04/07 23:25	1.0	10
025	sj425	SAMPLE	198013-008	Soil	130099	10/04/07 23:59	3.0	10
026	sj426	SAMPLE	198013-017	Soil	130099	10/05/07 00:33	1.0	10
027	sj427	SAMPLE	198013-011	Soil	130099	10/05/07 01:07	1.0	10
028	sj428	SAMPLE	198004-009	Water	130094	10/05/07 01:41	1.0	10

Standards used: 1=S7320 2=S7216 3=S7215 4=S7213 5=S7214 6=S7217 7=S7218 8=S9219 9=S6709 10=S7212

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577438709

Instrument : MSBNA08 Begun : 10/31/07 15:49
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	sjv01	TUN	DFTPP/PEM 50UG/ML			10/31/07 15:49	1.0	1
002	sjv02	CCV	CCV4			10/31/07 16:11	1.0	2
003	sjv03	SAMPLE	198811-001	Soil	131143	10/31/07 16:51	1.0	3
004	sjv04	SAMPLE	198811-002	Soil	131143	10/31/07 17:25	1.0	3
005	sjv05	SAMPLE	198811-003	Soil	131143	10/31/07 17:59	10.0	3
006	sjv06	SAMPLE	198818-001	Soil	131143	10/31/07 18:49	5.0	3
007	sjv07	SAMPLE	198818-002	Soil	131143	10/31/07 19:23	5.0	3
008	sjv08	SAMPLE	198767-003	Soil	131143	10/31/07 19:56	5.0	3
009	sjv09	SAMPLE	198767-004	Soil	131143	10/31/07 20:30	5.0	3
010	sjv10	SAMPLE	198767-007	Soil	131143	10/31/07 21:03	5.0	3

Standards used: 1=S7320 2=S7216 3=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577439779

Instrument : MSBNA08 Begun : 11/01/07 09:39
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	sk101	TUN	DFTPP/PEM 50UG/ML			11/01/07 09:39	1.0	1
002	sk102	CCV	1.0/5.0 UG/ML			11/01/07 09:59	1.0	2
003	sk103	SAMPLE	198767-001	Soil	131143	11/01/07 10:56	2.0	3
004	sk104	SAMPLE	198767-002	Soil	131143	11/01/07 11:29	2.0	3
005	sk105	SAMPLE	198767-008	Soil	131143	11/01/07 12:03	2.0	3
006	sk106	SAMPLE	198767-009	Soil	131143	11/01/07 12:37	2.0	3
007	sk107	SAMPLE	198767-010	Soil	131143	11/01/07 13:10	2.0	3
008	sk108	SAMPLE	198767-011	Soil	131143	11/01/07 13:44	2.0	3
009	sk109	SAMPLE	198767-007	Soil	131143	11/01/07 14:19	3.0	3
010	sk110	SAMPLE	198767-004	Soil	131143	11/01/07 14:52	2.0	3
011	sk111	SAMPLE	198818-003	Soil	131143	11/01/07 15:25	1.0	3
012	sk112	SAMPLE	198818-010	Soil	131143	11/01/07 15:59	1.0	3
013	sk113	TUN	DFTPP/PEM 50UG/ML			11/01/07 17:59	1.0	1
014	sk114	CCV	2/10UG/ML			11/01/07 18:20	1.0	4
015	sk115	BLANK	QC413150	Water	131165	11/01/07 18:54	1.0	3
016	sk116	BS	QC413151	Water	131165	11/01/07 19:29	1.0	3
017	sk117	BSD	QC413152	Water	131165	11/01/07 20:02	1.0	3
018	sk118	SAMPLE	198763-001	Water	131165	11/01/07 20:35	1.0	3
019	sk119	SAMPLE	198818-008	Water	131165	11/01/07 21:09	1.0	3
020	sk120	SAMPLE	198570-047	Soil	130870	11/01/07 21:44	1.0	3
021	sk121	SAMPLE	198570-048	Soil	130870	11/01/07 22:17	1.0	3
023	sk123	SAMPLE	198570-052	Soil	130870	11/01/07 22:50	1.0	3
024	sk124	SAMPLE	198570-053	Soil	130870	11/01/07 23:24	1.0	3
025	sk125	BLANK	QC413366	Soil	131224	11/01/07 23:59	1.0	3
026	sk126	LCS	QC413367	Soil	131224	11/02/07 00:33	1.0	3
027	sk127	MSS	198767-005	Soil	131224	11/02/07 01:08	1.0	3
028	sk128	SAMPLE	198767-006	Soil	131224	11/02/07 01:42	1.0	3
029	sk129	MS	QC413368	Soil	131224	11/02/07 02:17	1.0	3
030	sk130	MSD	QC413369	Soil	131224	11/02/07 02:52	1.0	3

Standards used: 1=S7320 2=S7216 3=S7386 4=S7217

REPORTING SUMMARY FOR 198818 MSSIM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FL	PHAN	ANTH	FLA	PHY	BZAA	CHRY	BBFL	BZFL	BZAP	INP1	DBAH	BZHG	NO2B	PHEN	PHEN2
198818-001	MSBNA08	10/31/07 18:49	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198818-002	MSBNA08	10/31/07 19:23	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198818-003	MSBNA03	10/31/07 19:03	5.0																				
198818-003	MSBNA08	11/01/07 15:25	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198818-004	MSBNA03	10/31/07 19:37	20.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198818-005	MSBNA03	10/31/07 19:12	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198818-006	MSBNA03	10/31/07 19:46	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198818-007	MSBNA03	10/31/07 18:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198818-010	MSBNA03	10/31/07 17:51	5.0																				
198818-010	MSBNA08	11/01/07 15:59	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413052	MSBNA03	10/31/07 16:42	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413053	MSBNA03	10/31/07 17:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SAMPLE PREPARATION SUMMARY

Batch # : 131143
Started By : SFH
Method : 3550B
Spike #1 ID : S7474
Prep Date : 31-OCT-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7566
Analysis : 8270-SIM
Finished By : SFH
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198767-001		Soil	30.06	1	1	0.03327		1				8270-SIM	
198767-002		Soil	30.33	1	1	0.03297		1				8270-SIM	
198767-003		Soil	30.39	1	1	0.03291		1				8270-SIM	
198767-004		Soil	30.33	1	1	0.03297		1				8270-SIM	
198767-007		Soil	30.01	1	1	0.03332		1				8270-SIM	
198767-008		Soil	30.15	1	1	0.03317		1				8270-SIM	
198767-009		Soil	30.03	1	1	0.0333		1				8270-SIM	
198767-010		Soil	30.14	1	1	0.03318		1				8270-SIM	
198767-011		Soil	30.26	1	1	0.03305		1				8270-SIM	
198811-001		Soil	30.1	1	1	0.03322		1				8270-SIM	
198811-002		Soil	30.22	1	1	0.03309		1				8270-SIM	
198811-003		Soil	30	1	1	0.03333		1				8270-SIM	
198818-001		Soil	30.1	1	1	0.03322		1				8270-SIM	
198818-002		Soil	30.36	1	1	0.03294		1				8270-SIM	
198818-003		Soil	30.25	1	1	0.03306		1				8270-SIM	
198818-004		Soil	30.18	1	1	0.03313		1				8270-SIM	MSS
198818-005		Soil	30.04	1	1	0.03329		1				8270-SIM	
198818-006		Soil	30.35	1	1	0.03295		1				8270-SIM	
198818-007		Soil	30.04	1	1	0.03329		1				8270-SIM	rocks
198818-010		Soil	30.44	1	1	0.03285		1				8270-SIM	alias 198817-001
QC413052	BLANK	Soil	30.07	1	1	0.03326		1				8270-SIM	
QC413053	LCS	Soil	30.02	1	1	0.03331		1	1			8270-SIM	
QC413054	MS	Soil	30.12	1	1	0.0332		1	1			8270-SIM	
QC413055	MSD	Soil	30.01	1	1	0.03332		1	1			8270-SIM	

LLH 11/01/07 : MS/MSD not analyzed, will be DO at 20x due to DV matrix

AD 11/01/07 : 198817-001 was aliased as 198818-010 per client request.

Analyst: LLH Date: 11/01/07 Reviewer: AD Date: 11/01/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 93 **BK 2560**

LIMS Batch No: 131143
LIMS Analysis 8270-SIM
Date Extracted: 10/31/07

Extraction Method:
☑ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198767-001 D	30.06	1.0		
	-002	30.33			
	-003	30.39			
	-004	30.33			
5	-007	30.01			
	-008	30.15			
	-009	30.03			
	-010	30.14			
	-011	30.26			
10	198811-001 A	30.10			
	-002	30.22			
	-003	30.00			
	198817-001 A JLH 11/1/07 (16-010)	30.44			aliased 198817-001
	198818-001 D	30.10			strong odor
15	-002	30.36			
	-003	30.25			
	-004 J	30.18			MSS, strong odor
	-005 D	30.04			
	-006	30.35			
20	-007	30.04			rocks
	MB QC413052	30.07			
	LCS 3	30.02			
	MS 4	30.12			
	MSD 5	30.01			
					SFH 10/31/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed powder/gran (for qc) Na_2SO_4 used for QC & to dry samples	EM47073754 / EM47158737	SFH 10/31/07
1.0 mL of surrogate solution was added to all samples	57474A	
1.0 mL of matrix spiking solution was added to all spikes	57566C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM47062	
Acetone	EM47154	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47073734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓ HOOD	

10/31/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

10/31/07
Reviewed by / Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
198761-001 D	50.09	TEHM		
-002	50.41			
-003	50.25			
-004	50.13			
-005 J	50.01			MSS
-006 D	50.27			
-007	50.20			
-008	50.05			
-009	50.35			
-010	50.02			
-011	50.16			
MB	50.25			EM47158737
LCS	50.32			
MS	50.33			198761-005J
MSD	50.01			
198761-022 A	30.27	8081		
-023	30.39			
-024	30.05			MSS
MS	30.10			198761-024A
MSD	30.00			
198605-0040	50.26	TEH		
198767-001 D	30.06	8270-SIM	131143	
-002	30.33			
-003	30.39			
-004	30.33			
-005 K	30.01			MSS
-006 D	30.33			
-007	30.01		131143	
-008	30.15			
-009	30.03			
-010	30.14			
-011	30.26			
MB	30.01			EM47158737
LCS	30.01			
MS	30.09			198767-005K

Continued on Page 105

Read and Understood By

Signed Date Signed Date

106 Project 5011 Aliquot DK25880

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
198668-005A	50.18	TEHM		
198775-001A	50.15 ~~.35~~			
-002	50.44 ~~.38~~			
-003	50.24 ~~.30~~			
-005	50.27 ~~.01~~			
-006	50.35 ~~.09~~			
-007	50.19			
-018	30.06	8081		
-019	30.15			
-020	30.50			
			KML 10/29/07	
198788-005	50.40	TEHM		comp cal, cal2, cal3, cal4, cal verif, & BOD reading
			KML 10/29/07	
198767-001D	30.07	8081		
-002	30.04			
-003	30.03			
-004	30.24			
-005J	30.01			MSS
-006D	30.11			
-007	30.43			
-008	30.23			
-009	30.18			
-010	30.35			
-011	30.12			
MB	30.05			EM47/58737
LCS	30.01			198767-005J
MS	30.02			
MSD	30.22			
			KML 10/29/07	
197692-046A	30.01	8081	DW 11/29/07	alias of 197692-046A
198811-001A	30.10	8270-SIM	131143	
-002	30.22			
-003	30.00			
			KML 10/30/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Sample ID	Weight (g)	Analysis	Batch##	Comments
198811-001A	50.36	TEHM		
-002	50.42			
-003	50.26			
~~198817-001A~~ 818-819 KML 11/1/07	30.44	8270-SIM KML 10/30/07	131143	aliqued 198817-001A
198818-001A KML 10/30/07 D	30.10			strong odor
-002	30.36			
-003	30.25			
-004 J	30.18			MSS strong odor
-005 D	30.04			
-006	30.35			
-007	30.04			rocks EM4715837
MB	30.07			
LCS	30.02			
MS	30.12			198818-004J
MSD	30.01			
		KML 10/30/07		
198815-001A	50.01	TEHM		
~~198817-001A~~ 818-819 KML 11/1/07	50.02			aliqued 198817-001A
198818-001D	50.29			strong odor
-002	50.31			
-003	50.13			
-004 K	50.16			MSS strong odor
-005 D	50.25			
-006	50.09			
-007	50.10			rocks EM4715837
MB	50.38			
LCS	50.25			
MS	50.31			198818-004K
MSD	50.22			
		KML 10/30/07		
198825-005	30.09	8270		comp 001, 002, 003, 004 all wipes A @ 30g each
		KML 10/30/07		
198825-005	50.17	TEHM		comp 001, 002, 003, 004 all wipes A @ 30g each
		KML 10/30/07		

Continued on Page

Read and Understood By

Signed Date Signed Date

METALS DATA

WATER

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198818	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX353RBEX354	Sampled:	10/30/07
Lab ID:	198818-008	Received:	10/30/07
Matrix:	Water	Prepared:	10/31/07
Units:	ug/L	Analyzed:	10/31/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	2.2 J	10	1.1	131150	EPA 3010A	EPA 6010B
Arsenic	ND	6.1	2.0	131150	EPA 3010A	EPA 6010B
Barium	1.0 J	5.0	0.11	131150	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	0.042	131150	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	0.11	131150	EPA 3010A	EPA 6010B
Chromium	ND	5.0	0.24	131150	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	0.30	131150	EPA 3010A	EPA 6010B
Copper	0.92 J	5.0	0.85	131150	EPA 3010A	EPA 6010B
Lead	ND	3.0	0.69	131150	EPA 3010A	EPA 6010B
Mercury	ND	0.20	0.045	131148	METHOD	EPA 7470A
Molybdenum	ND	5.0	0.41	131150	EPA 3010A	EPA 6010B
Nickel	ND	5.0	0.37	131150	EPA 3010A	EPA 6010B
Selenium	ND	10	1.5	131150	EPA 3010A	EPA 6010B
Silver	ND	5.0	0.75	131150	EPA 3010A	EPA 6010B
Thallium	ND	10	1.6	131150	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	1.0	131150	EPA 3010A	EPA 6010B
Zinc	1.1 J	20	0.84	131150	EPA 3010A	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	131148
Lab ID:	QC413069	Prepared:	10/31/07
Matrix:	Water	Analyzed:	10/31/07
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.045

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413080	Batch#:	131150
Matrix:	Water	Prepared:	10/31/07
Units:	ug/L	Analyzed:	10/31/07

Analyte	Result	RL	MDL
Antimony	2.2 J	10	1.1
Arsenic	ND	6.1	2.0
Barium	ND	5.0	0.11
Beryllium	ND	2.0	0.042
Cadmium	ND	5.0	0.11
Chromium	ND	5.0	0.24
Cobalt	ND	5.0	0.30
Copper	ND	5.0	0.85
Lead	ND	3.0	0.69
Molybdenum	ND	5.0	0.41
Nickel	ND	5.0	0.37
Selenium	ND	10	1.5
Silver	0.94 J	5.0	0.75
Thallium	ND	10	1.6
Vanadium	ND	5.0	1.0
Zinc	5.7 J	20	0.84

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	131148
Matrix:	Water	Prepared:	10/31/07
Units:	ug/L	Analyzed:	10/31/07
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC413070	5.000	4.850	97	80-120		
BSD	QC413071	5.000	5.030	101	80-120	4	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	131150
Units:	ug/L	Prepared:	10/31/07
Diln Fac:	1.000	Analyzed:	10/31/07

Type: BS Lab ID: QC413081

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	498.4	100	80-120
Arsenic	100.0	101.7	102	80-120
Barium	2,000	2,009	100	80-120
Beryllium	50.00	52.81	106	80-120
Cadmium	50.00	52.16	104	80-120
Chromium	200.0	199.7	100	80-120
Cobalt	500.0	485.0	97	80-120
Copper	250.0	250.7	100	80-120
Lead	100.0	97.41	97	80-120
Molybdenum	400.0	422.7	106	80-120
Nickel	500.0	502.4	100	80-120
Selenium	100.0	100.9	101	80-120
Silver	50.00	50.76	102	80-120
Thallium	100.0	100.7	101	80-120
Vanadium	500.0	500.8	100	80-120
Zinc	500.0	507.1	101	80-120

Type: BSD Lab ID: QC413082

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	504.1	101	80-120	1	20
Arsenic	100.0	103.6	104	80-120	2	20
Barium	2,000	2,040	102	80-120	1	20
Beryllium	50.00	53.43	107	80-120	1	20
Cadmium	50.00	52.52	105	80-120	1	20
Chromium	200.0	201.6	101	80-120	1	20
Cobalt	500.0	490.5	98	80-120	1	20
Copper	250.0	254.5	102	80-120	1	20
Lead	100.0	97.36	97	80-120	0	20
Molybdenum	400.0	430.1	108	80-120	2	20
Nickel	500.0	507.0	101	80-120	1	20
Selenium	100.0	100.7	101	80-120	0	20
Silver	50.00	50.78	102	80-120	0	20
Thallium	100.0	104.0	104	80-120	3	20
Vanadium	500.0	505.1	101	80-120	1	20
Zinc	500.0	513.9	103	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	131148
Field ID:	ZZZZZZZZZZ	Sampled:	10/29/07
MSS Lab ID:	198814-002	Received:	10/30/07
Matrix:	Water	Prepared:	10/31/07
Units:	ug/L	Analyzed:	10/31/07
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC413073	0.7300	5.000	5.360	93	80-120		
MSD	QC413074		5.000	5.470	95	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX353RBEX354	Batch#:	131150
MSS Lab ID:	198818-008	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Prepared:	10/31/07
Diln Fac:	1.000	Analyzed:	10/31/07

Type: MS Lab ID: QC413083

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.178	500.0	515.5	103	80-120
Arsenic	<2.042	100.0	106.9	107	80-120
Barium	1.011	2,000	2,063	103	80-120
Beryllium	<0.04231	50.00	54.40	109	80-120
Cadmium	<0.1091	50.00	53.26	107	80-120
Chromium	<0.2448	200.0	204.2	102	80-120
Cobalt	<0.3034	500.0	508.0	102	80-120
Copper	0.9190	250.0	256.7	102	80-120
Lead	<0.6892	100.0	99.13	99	80-120
Molybdenum	<0.4140	400.0	437.3	109	80-120
Nickel	<0.3660	500.0	510.6	102	80-120
Selenium	<1.469	100.0	105.4	105	80-120
Silver	<0.7459	50.00	50.83	102	80-120
Thallium	<1.616	100.0	102.9	103	80-120
Vanadium	<1.034	500.0	512.2	102	80-120
Zinc	1.076	500.0	522.0	104	80-120

Type: MSD Lab ID: QC413084

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	514.4	102	80-120	0	20
Arsenic	100.0	108.5	108	80-120	1	20
Barium	2,000	2,075	104	80-120	1	20
Beryllium	50.00	54.46	109	80-120	0	20
Cadmium	50.00	53.39	107	80-120	0	20
Chromium	200.0	204.6	102	80-120	0	20
Cobalt	500.0	499.0	100	80-120	2	20
Copper	250.0	258.0	103	80-120	1	20
Lead	100.0	99.59	100	80-120	0	20
Molybdenum	400.0	440.2	110	80-120	1	20
Nickel	500.0	511.8	102	80-120	0	20
Selenium	100.0	107.6	108	80-120	2	20
Silver	50.00	51.81	104	80-120	2	20
Thallium	100.0	105.4	105	80-120	2	20
Vanadium	500.0	511.9	102	80-120	0	20
Zinc	500.0	526.5	105	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131148
MSS Lab ID:	198814-002	Sampled:	10/29/07
Lab ID:	QC413072	Received:	10/30/07
Matrix:	Water	Analyzed:	10/31/07

MSS Result	MSS RL	Result	RL	% Diff	Lim
0.7300	0.2000	ND	1.000	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX353RBEX354	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131150
MSS Lab ID:	198818-008	Sampled:	10/30/07
Lab ID:	QC413085	Received:	10/30/07
Matrix:	Water	Analyzed:	10/31/07
Units:	ug/L		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	2.178	10.00	9.533 J	25.00	NC	10
Arsenic	ND	6.126	ND	30.63	NC	10
Barium	1.011	5.000	2.073 J	25.00	NC	10
Beryllium	ND	2.000	ND	10.00	NC	10
Cadmium	ND	5.000	1.280 J	25.00	NC	10
Chromium	ND	5.000	ND	25.00	NC	10
Cobalt	ND	5.000	ND	25.00	NC	10
Copper	0.9190	5.000	ND	25.00	NC	10
Lead	ND	3.000	ND	15.00	NC	10
Molybdenum	ND	5.000	ND	25.00	NC	10
Nickel	ND	5.000	ND	25.00	NC	10
Selenium	ND	10.00	ND	25.00	NC	10
Silver	ND	5.000	ND	25.00	NC	10
Thallium	ND	10.00	ND	25.00	NC	10
Vanadium	ND	5.000	ND	25.00	NC	10
Zinc	1.076	20.00	ND	100.0	NC	10

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum : 97438642037
File : 103107cr
IDF : 1.0
Lab ID : 198818-008
Matrix : Water
Batch : 131150
Time : 31-OCT-2007 17:07
Cal : 97438642001
Units : ug/L

Type : PDS
Inst : MET09
Seqnum : 97438642046
File : 103107cr
IDF : 1.0
Lab ID : QC413086
Matrix : Water
Batch : 131150
Time : 31-OCT-2007 17:41
Cal : 97438642001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S6920 (100X), S6921 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	59.49	R	2000	2066	R	100	75-125	u
Antimony	2.178	A	500.0	484.3	A	96	75-125	u
Arsenic	ND	A	100.0	96.97	A	97	75-125	u y
Barium	1.011	A	2000	1904	A	95	75-125	u
Beryllium	ND	A	50.00	49.97	A	100	75-125	u
Cadmium	ND	A	50.00	48.23	A	96	75-125	u
Calcium	544.4	R	20000	19630	R	95	75-125	u
Chromium	ND	A	200.0	189.8	A	95	75-125	u
Cobalt	ND	A	500.0	461.8	A	92	75-125	u
Copper	0.9190	A	250.0	239.3	A	95	75-125	u
Iron	23.67	R	1000	1012	R	99	75-125	u
Lead	ND	A	100.0	90.86	A	91	75-125	u
Magnesium	ND	R	20000	18850	R	94	75-125	u
Manganese	ND	A	50.00	48.56	A	97	75-125	u
Molybdenum	ND	A	400.0	410.0	A	102	75-125	u
Nickel	ND	A	500.0	464.6	A	93	75-125	u
Potassium	79.87	R	10000	9241	R	92	75-125	u
Selenium	ND	A	100.0	98.26	A	98	75-125	u
Silver	ND	A	50.00	47.07	A	94	75-125	u
Sodium	1113	R	20000	19800	R	93	75-125	u
Thallium	ND	A	100.0	97.39	A	97	75-125	u
Vanadium	ND	A	500.0	473.5	A	95	75-125	u
Zinc	1.076	A	500.0	472.5	A	94	75-125	u
Boron	ND	A	1000	974.8	A	97	75-125	u
Tin	ND	A	1000	954.7	A	95	75-125	u
Titanium	ND	A	1000	988.3	A	99	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3008815	2807358	-6.70

u=use y=RL raised

97438642046

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

nst : MET09
alnum : 97438642001
nits : ug/L

Date : 31-OCT-2007 14:42
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	103107cr	97438642002	CRIM08	31-OCT-2007 14:46	S7555
L2	103107cr	97438642003	CS100	31-OCT-2007 14:50	S7382
L3	103107cr	97438642004	CS1K	31-OCT-2007 14:52	S7381
L4	103107cr	97438642005	CS10K	31-OCT-2007 14:55	S7383
L5	103107cr	97438642006	CS100K	31-OCT-2007 14:58	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ntimony	A	23.897	19.444	19.246	19.242		LOR0	0.00000	0.05197		20.457	1.000	0.995	
rsenic	A	10.891	10.906	10.851	10.706		LOR0	0.00000	0.09340		10.838	1.000	0.995	
arium	A	103.18	103.90	103.05	100.22		LOR0	0.00000	0.00998		102.59	1.000	0.995	
eryllium	A	4783.2	4929.8	4886.9			LOR0	0.00000	2.05E-4		4866.6	1.000	0.995	
oron	A	210.30		212.37	217.72		LOR0	0.00000	0.00459		213.46	1.000	0.995	
admium	A	168.63	170.24	172.17	168.46		LOR0	0.00000	0.00593		169.87	1.000	0.995	
hromium	A	149.70	179.51	181.56	179.51		LOR0	0.00000	0.00557		172.57	1.000	0.995	
obalt	A	58.527	60.480	60.618	60.164		LOR0	0.00000	0.01662		59.947	1.000	0.995	
opper	A	199.23	208.75	209.17	207.83		LOR0	0.00000	0.00481		206.25	1.000	0.995	
ead	A	44.072	57.751	57.877	55.973		LOR0	0.00000	0.01786		53.918	1.000	0.995	
anganese	A	461.80	547.66	539.82	513.34		LOR0	0.00000	0.00195		515.65	1.000	0.995	
olybdenum	A	42.661	45.806	44.483	42.805		LOR0	0.00000	0.02335		43.939	1.000	0.995	
ickel	A	74.840	88.224	89.805	88.652		LOR0	0.00000	0.01128		85.380	1.000	0.995	
elenium	A	19.231	13.714	13.688	13.906		LOR0	0.00000	0.07192		15.135	1.000	0.995	
ilver	A	617.46	552.21	537.52	543.18		LOR0	0.00000	0.00184		562.59	1.000	0.995	
hallium	A	11.178	11.456	11.043	10.771		LOR0	0.00000	0.09282		11.112	1.000	0.995	
in	A	18.668	18.965	19.522	19.815		LOR0	0.00000	0.05047		19.243	1.000	0.995	
itanium	A	704.94	795.81	788.75	761.23		LOR0	0.00000	0.00131		762.68	1.000	0.995	
anadium	A	178.64	216.77	217.34	219.40		LOR0	0.00000	0.00456		208.03	1.000	0.995	
inc	A	129.58	93.733	88.320	87.989		LOR0	0.00000	0.01136		99.906	1.000	0.995	
luminum	R	0.6925		0.8444	0.7856	0.8132	LOR0	0.00000	1.23012		0.7839	1.000	0.995	
alcium	R	7.8765		8.7686	8.3854	8.4858	LOR0	0.00000	0.11786		8.3790	1.000	0.995	
ron	R	2.3141		2.6239	2.5215	2.5718	LOR0	0.00000	0.38891		2.5078	1.000	0.995	
agnesium	R	1.1617		1.3754	1.3181	1.3172	LOR0	0.00000	0.75916		1.2931	1.000	0.995	
otassium	R	3.1770		2.9003	2.6088	2.7195	LOR0	0.00000	0.36786		2.8514	1.000	0.995	
odium	R	307.49		330.09	310.91	317.49	LOR0	0.00000	0.00315		316.50	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	24	100.0	1	1000	0	10000	0		
Arsenic	A	5.000	2	100.0	2	1000	1	10000	0		
Barium	A	5.000	3	100.0	4	1000	3	10000	0		
Beryllium	A	2.000	-2	100.0	1	1000	0				
Boron	A	100.0	-3			1000	-2	10000	0		
Cadmium	A	5.000	0	100.0	1	1000	2	10000	0		
Chromium	A	5.000	-17	100.0	0	1000	1	10000	0		
Cobalt	A	5.000	-3	100.0	1	1000	1	10000	0		
Copper	A	5.000	-4	100.0	0	1000	1	10000	0		
Lead	A	3.000	-21	100.0	3	1000	3	10000	0		
Manganese	A	5.000	-10	100.0	7	1000	5	10000	0		
Molybdenum	A	5.000	0	100.0	7	1000	4	10000	0		
Nickel	A	5.000	-16	100.0	0	1000	1	10000	0		
Selenium	A	5.000	38	100.0	-1	1000	-2	10000	0		
Silver	A	5.000	14	100.0	2	1000	-1	2000	0		
Thallium	A	5.000	4	100.0	6	1000	2	10000	0		
Tin	A	40.00	-6	100.0	-4	1000	-1	10000	0		
Titanium	A	10.00	-7	100.0	5	1000	4	10000	0		
Vanadium	A	5.000	-19	100.0	-1	1000	-1	10000	0		
Zinc	A	20.00	47	100.0	7	1000	0	10000	0		
Aluminum	R	100.0	-15			1000	4	10000	-3	100000	0
Calcium	R	200.0	-7			1000	3	10000	-1	100000	0
Iron	R	100.0	-10			1000	2	10000	-2	100000	0
Magnesium	R	200.0	-12			1000	4	10000	0	100000	0
Potassium	R	500.0	17			1000	7	10000	-4	100000	0
Sodium	R	500.0	-3			1000	4	10000	-2	100000	0

9 9 5 9

strument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/31/2007 2:42:02 PM
Data Type: Reprocessed on 10/31/2007 3:32:19 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1150.3	181.33	15.76%	[0.00]	ug/L
Al 308.215 R	78.4	6.62	8.45%	[0.00]	ug/L
As 188.979	63.0	17.13	27.17%	[0.00]	ug/L
B 249.677	-35.1	112.79	321.22%	[0.00]	ug/L
Ba 233.527	-103.0	2.47	2.40%	[0.00]	ug/L
Be 313.107	1605.8	45.42	2.83%	[0.00]	ug/L
Ca 315.887 R	356.5	5.45	1.53%	[0.00]	ug/L
Cd 214.440	-32.6	3.69	11.33%	[0.00]	ug/L
Co 228.616	-61.2	5.11	8.35%	[0.00]	ug/L
Cr 267.716	51.0	30.91	60.64%	[0.00]	ug/L
Cu 324.752	2335.4	50.42	2.16%	[0.00]	ug/L
Fe 238.204 R	-273.2	2.36	0.86%	[0.00]	ug/L
K 766.490 R	-551.6	142.58	25.85%	[0.00]	ug/L
Mg 279.077 R	-19.5	4.28	21.89%	[0.00]	ug/L
Mn 257.610	350.0	9.67	2.76%	[0.00]	ug/L
Mo 202.031	-11.8	9.53	80.77%	[0.00]	ug/L
Na 589.592 R	16279.8	2619.53	16.09%	[0.00]	ug/L
Ni 231.604	877.1	12.20	1.39%	[0.00]	ug/L
Pb 220.353	-368.7	103.32	28.03%	[0.00]	ug/L
Sb 206.836	-51.3	16.86	32.88%	[0.00]	ug/L
Se 196.026	-59.5	35.93	60.42%	[0.00]	ug/L
Ti 334.940 R	582.5	1.80	0.31%	[0.00]	ug/L
Tl 190.801	-52.5	9.63	18.35%	[0.00]	ug/L
V 292.402	-1442.4	32.11	2.23%	[0.00]	ug/L
Zn 206.200	60.6	5.02	8.28%	[0.00]	ug/L
Sn 189.927	21.5	6.62	30.78%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/31/2007 2:46:00 PM
Data Type: Reprocessed on 10/31/2007 3:32:20 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3008815.0	24502.79	0.81%	100.0	%
Y	257277.9	3572.46	1.39%	100.0	%
Ag 328.068†	3087.3	557.64	18.06%	[5.0]	ug/L
Al 308.215 R†	69.2	3.21	4.64%	[100]	ug/L
As 188.979†	54.5	26.96	49.51%	[5.0]	ug/L
B 249.677†	21030.0	208.18	0.99%	[100]	ug/L
Ba 233.527†	515.9	11.02	2.14%	[5.0]	ug/L
Be 313.107†	9566.4	98.10	1.03%	[2.0]	ug/L
Ca 315.887 R†	1575.3	33.49	2.13%	[200]	ug/L
Cd 214.440†	843.1	7.27	0.86%	[5.0]	ug/L
Co 228.616†	292.6	8.71	2.98%	[5.0]	ug/L
Cr 267.716†	748.5	41.12	5.49%	[5.0]	ug/L
Cu 324.752†	996.2	31.84	3.20%	[5.0]	ug/L
Fe 238.204 R†	231.4	2.27	0.98%	[100]	ug/L
K 766.490 R†	1588.5	71.47	4.50%	[500]	ug/L
Mg 279.077 R†	232.3	1.20	0.52%	[200]	ug/L
Mn 257.610†	2309.0	15.74	0.68%	[5.0]	ug/L
Mo 202.031†	213.3	8.82	4.13%	[5.0]	ug/L
Na 589.592 R†	153746.9	1726.47	1.12%	[500]	ug/L
Ni 231.604†	374.2	5.49	1.47%	[5.0]	ug/L
Pb 220.353†	132.2	52.88	40.00%	[3.0]	ug/L
Sb 206.836†	119.5	22.78	19.07%	[5.0]	ug/L
Se 196.026†	96.2	33.86	35.21%	[5.0]	ug/L
Ti 334.940 R†	7049.4	73.86	1.05%	[10]	ug/L
Tl 190.801†	55.9	24.99	44.71%	[5.0]	ug/L
V 292.402†	893.2	137.80	15.43%	[5.0]	ug/L
Zn 206.200†	2591.7	16.48	0.64%	[20]	ug/L
Sn 189.927†	746.7	10.73	1.44%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/31/2007 2:50:01 PM
Data Type: Reprocessed on 10/31/2007 3:32:21 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3015128.8	53141.35	1.76%	100.2	%
Y	260645.3	1383.51	0.53%	101.3	%
Ag 328.068†	55221.2	613.70	1.11%	[100]	ug/L
As 188.979†	1090.6	35.56	3.26%	[100]	ug/L
Ba 233.527†	10390.0	220.89	2.13%	[100]	ug/L
Be 313.107†	492977.4	911.56	0.18%	[100]	ug/L
Cd 214.440†	17024.0	366.66	2.15%	[100]	ug/L
Co 228.616†	6048.0	116.56	1.93%	[100]	ug/L
Cr 267.716†	17951.5	357.98	1.99%	[100]	ug/L
Cu 324.752†	20875.1	13.69	0.07%	[100]	ug/L
Mn 257.610†	54765.8	270.55	0.49%	[100]	ug/L
Mo 202.031†	4580.6	109.87	2.40%	[100]	ug/L
Ni 231.604†	8822.4	171.61	1.95%	[100]	ug/L
Pb 220.353†	5775.1	159.44	2.76%	[100]	ug/L
Sb 206.836†	1944.4	28.16	1.45%	[100]	ug/L
Se 196.026†	1371.4	46.73	3.41%	[100]	ug/L
Ti 334.940 R†	79580.8	116.46	0.15%	[100]	ug/L
Tl 190.801†	1145.6	72.70	6.35%	[100]	ug/L
V 292.402†	21677.0	48.74	0.22%	[100]	ug/L
Zn 206.200†	9373.3	182.62	1.95%	[100]	ug/L
Sn 189.927†	1896.5	42.49	2.24%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/31/2007 2:52:58 PM
Data Type: Reprocessed on 10/31/2007 3:32:22 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3009363.5	52660.20	1.75%	100.0	%
Y	253303.3	5849.71	2.31%	98.46	%
Ag 328.068†	537516.8	7045.97	1.31%	[1000]	ug/L
Al 308.215 R†	844.4	9.87	1.17%	[1000]	ug/L
As 188.979†	10851.0	169.38	1.56%	[1000]	ug/L
B 249.677†	212367.8	2552.05	1.20%	[1000]	ug/L
Ba 233.527†	103052.4	1336.65	1.30%	[1000]	ug/L
Be 313.107†	4886932.4	55176.80	1.13%	[1000]	ug/L
Ca 315.887 R†	8768.6	60.42	0.69%	[1000]	ug/L
Cd 214.440†	172167.9	2248.05	1.31%	[1000]	ug/L
Co 228.616†	60617.6	472.80	0.78%	[1000]	ug/L
Cr 267.716†	181563.2	2225.19	1.23%	[1000]	ug/L
Cu 324.752†	209173.2	2944.88	1.41%	[1000]	ug/L
Fe 238.204 R†	2623.9	15.66	0.60%	[1000]	ug/L
K 766.490 R†	2900.3	68.54	2.36%	[1000]	ug/L
Mg 279.077 R†	1375.4	33.80	2.46%	[1000]	ug/L
Mn 257.610†	539818.7	6151.46	1.14%	[1000]	ug/L
Mo 202.031†	44483.4	428.94	0.96%	[1000]	ug/L
Na 589.592 R†	330091.2	13946.33	4.22%	[1000]	ug/L
Ni 231.604†	89805.0	970.59	1.08%	[1000]	ug/L
Pb 220.353†	57877.5	904.29	1.56%	[1000]	ug/L
Sb 206.836†	19246.2	212.41	1.10%	[1000]	ug/L
Se 196.026†	13688.1	252.44	1.84%	[1000]	ug/L
Ti 334.940 R†	788751.8	10362.42	1.31%	[1000]	ug/L
Tl 190.801†	11042.5	290.95	2.63%	[1000]	ug/L
V 292.402†	217337.8	2805.28	1.29%	[1000]	ug/L
Zn 206.200†	88319.6	921.71	1.04%	[1000]	ug/L
Sn 189.927†	19521.5	201.67	1.03%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/31/2007 2:55:05 PM
Data Type: Reprocessed on 10/31/2007 3:32:23 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2942867.7	21917.71	0.74%	97.81	%
Y	252999.4	5479.15	2.17%	98.34	%
Ag 328.068†	1086362.7	4744.43	0.44%	[2000]	ug/L
Al 308.215 R†	7856.3	29.75	0.38%	[10000]	ug/L
As 188.979†	107055.4	1350.71	1.26%	[10000]	ug/L
B 249.677†	2177232.8	11642.73	0.53%	[10000]	ug/L
Ba 233.527†	1002168.0	4722.06	0.47%	[10000]	ug/L
Ca 315.887 R†	83853.5	337.50	0.40%	[10000]	ug/L
Cd 214.440†	1684626.8	22648.26	1.34%	[10000]	ug/L
Co 228.616†	601636.9	2775.10	0.46%	[10000]	ug/L
Cr 267.716†	1795060.4	7328.15	0.41%	[10000]	ug/L
Cu 324.752†	2078293.0	15762.45	0.76%	[10000]	ug/L
Fe 238.204 R†	25215.1	129.04	0.51%	[10000]	ug/L
K 766.490 R†	26087.6	253.50	0.97%	[10000]	ug/L
Mg 279.077 R†	13180.5	24.59	0.19%	[10000]	ug/L
Mn 257.610†	5133359.4	35257.38	0.69%	[10000]	ug/L
Mo 202.031†	428054.6	7096.16	1.66%	[10000]	ug/L
Na 589.592 R†	3109057.6	14303.85	0.46%	[10000]	ug/L
Ni 231.604†	886518.8	4398.95	0.50%	[10000]	ug/L
Pb 220.353†	559726.4	9541.47	1.70%	[10000]	ug/L
Sb 206.836†	192423.2	1829.93	0.95%	[10000]	ug/L
Se 196.026†	139062.0	1271.55	0.91%	[10000]	ug/L
Ti 334.940 R†	7612296.4	34244.89	0.45%	[10000]	ug/L
Tl 190.801†	107705.1	1662.08	1.54%	[10000]	ug/L
V 292.402†	2193954.4	7576.64	0.35%	[10000]	ug/L
Zn 206.200†	879885.9	5554.01	0.63%	[10000]	ug/L
Sn 189.927†	198148.5	2046.99	1.03%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/31/2007 2:58:00 PM
Data Type: Reprocessed on 10/31/2007 3:32:24 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2742062.7	29135.66	1.06%	91.13	%
Y	248403.3	1666.86	0.67%	96.55	%
Al 308.215 Rt	81320.1	274.68	0.34%	[100000]	ug/L
Ca 315.887 Rt	848578.9	1110.77	0.13%	[100000]	ug/L
Fe 238.204 Rt	257179.4	918.72	0.36%	[100000]	ug/L
K 766.490 Rt	271949.1	795.06	0.29%	[100000]	ug/L
Mg 279.077 Rt	131723.9	155.53	0.12%	[100000]	ug/L
Na 589.592 Rt	31749388.6	95137.13	0.30%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	542.1	0.00000	0.999991	
Al 308.215 R	4	Lin Thru 0	0.0	0.8129	0.00000	0.999994	
As 188.979	4	Lin Thru 0	0.0	10.71	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	217.7	0.00000	0.999997	
Ba 233.527	4	Lin Thru 0	0.0	100.2	0.00000	0.999996	
Be 313.107	3	Lin Thru 0	0.0	4887	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	8.485	0.00000	0.999999	
Cd 214.440	4	Lin Thru 0	0.0	168.5	0.00000	0.999998	
Co 228.616	4	Lin Thru 0	0.0	60.17	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	179.5	0.00000	0.999999	
Cu 324.752	4	Lin Thru 0	0.0	207.8	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	2.571	0.00000	0.999998	
K 766.490 R	4	Lin Thru 0	0.0	2.718	0.00000	0.999991	
Mg 279.077 R	4	Lin Thru 0	0.0	1.317	0.00000	1.000000	
Mn 257.610	4	Lin Thru 0	0.0	513.6	0.00000	0.999987	
Mo 202.031	4	Lin Thru 0	0.0	42.82	0.00000	0.999992	
Na 589.592 R	4	Lin Thru 0	0.0	317.4	0.00000	0.999998	
Ni 231.604	4	Lin Thru 0	0.0	88.66	0.00000	0.999999	
Pb 220.353	4	Lin Thru 0	0.0	55.99	0.00000	0.999994	
Sb 206.836	4	Lin Thru 0	0.0	19.24	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	13.90	0.00000	0.999999	
Ti 334.940 R	4	Lin Thru 0	0.0	761.5	0.00000	0.999993	
Tl 190.801	4	Lin Thru 0	0.0	10.77	0.00000	0.999997	
V 292.402	4	Lin Thru 0	0.0	219.4	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	87.99	0.00000	0.999999	
Sn 189.927	4	Lin Thru 0	0.0	19.81	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642007 File : 103107cr Time : 31-OCT-2007 15:00
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	20.457	20.179	5000	5243	ug/L	5	10	
Arsenic	A	10.838	11.591	5000	5413	ug/L	8	10	
Barium	A	102.59	107.30	5000	5352	ug/L	7	10	
Beryllium	A	4866.6	5169.1	500.0	528.8	ug/L	6	10	
Boron	A	213.46	234.66	5000	5390	ug/L	8	10	
Cadmium	A	169.87	176.13	5000	5226	ug/L	5	10	
Chromium	A	172.57	185.70	5000	5172	ug/L	3	10	
Cobalt	A	59.947	62.005	5000	5141	ug/L	3	10	
Copper	A	206.25	214.77	5000	5167	ug/L	3	10	
Lead	A	53.918	58.148	5000	5193	ug/L	4	10	
Manganese	A	515.65	536.30	5000	5221	ug/L	4	10	
Molybdenum	A	43.939	45.328	5000	5293	ug/L	6	10	
Nickel	A	85.380	92.384	5000	5210	ug/L	4	10	
Selenium	A	15.135	14.650	5000	5268	ug/L	5	10	
Silver	A	562.59	552.98	1000	1020	ug/L	2	10	
Thallium	A	11.112	11.316	5000	5252	ug/L	5	10	
Tin	A	19.243	20.529	5000	5181	ug/L	4	10	
Titanium	A	762.68	789.83	5000	5186	ug/L	4	10	
Vanadium	A	208.03	227.89	5000	5194	ug/L	4	10	
Zinc	A	99.906	91.953	5000	5225	ug/L	5	10	
Aluminum	R	0.7839	0.8084	20000	19890	ug/L	-1	10	
Calcium	R	8.3790	8.6354	20000	20350	ug/L	2	10	
Iron	R	2.5078	2.6128	20000	20320	ug/L	2	10	
Magnesium	R	1.2931	1.3697	20000	20800	ug/L	4	10	
Potassium	R	2.8514	2.6859	20000	19760	ug/L	-1	10	
Sodium	R	316.50	319.53	20000	20130	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2841306	-5.57

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642008 File : 103107cr Time : 31-OCT-2007 15:07
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[3.252]	5.000	1.074	ug/L	!ib
Arsenic	A	[3.675]	5.000	1.320	ug/L	!ib
Barium	A	[0.8762]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1468]	2.000	0.04231	ug/L	!ib
Boron	A	[8.866]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.037]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	[0.8511]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[1.817]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.4330]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.852]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.451]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.111]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[8.769]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[40.63]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2965830	-1.43

!=warning ib=instrument blank

97438642008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642009 File : 103107cr Time : 31-OCT-2007 15:11
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	6.947	5.000	ug/L	
Arsenic	A	[2.970]	5.000	ug/L	
Barium	A	[-0.6733]	5.000	ug/L	
Beryllium	A	[0.02135]	2.000	ug/L	
Boron	A	[-7.100]	100.0	ug/L	
Cadmium	A	[1.895]	5.000	ug/L	
Cobalt	A	[-2.714]	5.000	ug/L	
Lead	A	[-1.253]	3.000	ug/L	
Molybdenum	A	[2.441]	5.000	ug/L	
Selenium	A	[2.021]	5.000	ug/L	
Silver	A	[1.722]	5.000	ug/L	
Thallium	A	[-1.508]	5.000	ug/L	
Tin	A	[-5.016]	40.00	ug/L	
Zinc	A	[16.16]	20.00	ug/L	
Potassium	R	[71.86]	500.0	ug/L	
Sodium	R	[29.23]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18980	ug/L	95
Copper	A	20000	20520	ug/L	103
Manganese	A	20000	18340	ug/L	92
Nickel	A	20000	17770	ug/L	89
Titanium	A	20000	19600	ug/L	98
Vanadium	A	20000	19850	ug/L	99
Aluminum	R	500000	474500	ug/L	95
Calcium	R	500000	462100	ug/L	92
Iron	R	200000	176100	ug/L	88
Magnesium	R	500000	471300	ug/L	94

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2585138	-14.08

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642010 File : 103107cr Time : 31-OCT-2007 15:33
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	485.8	ug/L	-3	20	
Arsenic	A	500.0	503.7	ug/L	1	20	
Barium	A	500.0	492.8	ug/L	-1	20	
Beryllium	A	500.0	503.7	ug/L	1	20	
Cadmium	A	1000	936.4	ug/L	-6	20	
Chromium	A	500.0	477.9	ug/L	-4	20	
Cobalt	A	500.0	433.6	ug/L	-13	20	
Copper	A	500.0	514.9	ug/L	3	20	
Lead	A	1000	853.7	ug/L	-15	20	
Manganese	A	500.0	490.9	ug/L	-2	20	
Molybdenum	A	500.0	504.5	ug/L	1	20	
Nickel	A	1000	909.7	ug/L	-9	20	
Selenium	A	500.0	458.9	ug/L	-8	20	
Silver	A	1000	1032	ug/L	3	20	
Thallium	A	500.0	414.0	ug/L	-17	20	
Titanium	A	20000	19140	ug/L	-4		
Vanadium	A	500.0	506.8	ug/L	1	20	
Zinc	A	1000	946.2	ug/L	-5	20	
Aluminum	R	500000	461100	ug/L	-8		
Calcium	R	500000	450100	ug/L	-10		
Iron	R	200000	171300	ug/L	-14		
Magnesium	R	500000	459900	ug/L	-8		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2587301	-14.01

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642017 File : 103107cr Time : 31-OCT-2007 15:54
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	519.2	ug/L	4	20	
Arsenic	A	500.0	519.2	ug/L	4	20	
Barium	A	500.0	508.6	ug/L	2	20	
Beryllium	A	500.0	512.8	ug/L	3	20	
Cadmium	A	1000	956.4	ug/L	-4	20	
Chromium	A	500.0	485.7	ug/L	-3	20	
Cobalt	A	500.0	449.5	ug/L	-10	20	
Copper	A	500.0	521.8	ug/L	4	20	
Lead	A	1000	886.5	ug/L	-11	20	
Manganese	A	500.0	500.5	ug/L	0	20	
Molybdenum	A	500.0	518.8	ug/L	4	20	
Nickel	A	1000	925.4	ug/L	-7	20	
Selenium	A	500.0	520.4	ug/L	4	20	
Silver	A	1000	1047	ug/L	5	20	
Thallium	A	500.0	428.4	ug/L	-14	20	
Titanium	A	20000	19350	ug/L	-3		
Vanadium	A	500.0	515.1	ug/L	3	20	
Zinc	A	1000	959.9	ug/L	-4	20	
Aluminum	R	500000	468000	ug/L	-6		
Calcium	R	500000	457200	ug/L	-9		
Iron	R	200000	177000	ug/L	-11		
Magnesium	R	500000	466700	ug/L	-7		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2552063	-15.18

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642019 File : 103107cr Time : 31-OCT-2007 16:01
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.457	19.477	5000	5061	ug/L	1	10	
Arsenic	A	10.838	11.037	5000	5154	ug/L	3	10	
Barium	A	102.59	103.44	5000	5159	ug/L	3	10	
Beryllium	A	4866.6	4963.6	500.0	507.8	ug/L	2	10	
Boron	A	213.46	225.36	5000	5177	ug/L	4	10	
Cadmium	A	169.87	169.72	5000	5036	ug/L	1	10	
Chromium	A	172.57	179.64	5000	5003	ug/L	0	10	
Cobalt	A	59.947	59.543	5000	4937	ug/L	-1	10	
Copper	A	206.25	208.35	5000	5012	ug/L	0	10	
Lead	A	53.918	56.657	5000	5059	ug/L	1	10	
Manganese	A	515.65	520.70	5000	5069	ug/L	1	10	
Molybdenum	A	43.939	43.388	5000	5066	ug/L	1	10	
Nickel	A	85.380	88.156	5000	4971	ug/L	-1	10	
Selenium	A	15.135	14.005	5000	5036	ug/L	1	10	
Silver	A	562.59	548.88	1000	1013	ug/L	1	10	
Thallium	A	11.112	10.712	5000	4972	ug/L	-1	10	
Tin	A	19.243	19.753	5000	4985	ug/L	0	10	
Titanium	A	762.68	767.53	5000	5040	ug/L	1	10	
Vanadium	A	208.03	221.33	5000	5045	ug/L	1	10	
Zinc	A	99.906	86.776	5000	4931	ug/L	-1	10	
Aluminum	R	0.7839	0.8062	20000	19830	ug/L	-1	10	
Calcium	R	8.3790	8.4632	20000	19950	ug/L	0	10	
Iron	R	2.5078	2.5623	20000	19930	ug/L	0	10	
Magnesium	R	1.2931	1.3239	20000	20100	ug/L	1	10	
Potassium	R	2.8514	2.6852	20000	19760	ug/L	-1	10	
Sodium	R	316.50	318.08	20000	20040	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2806016	-6.74

97438642019

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642021 File : 103107cr Time : 31-OCT-2007 16:07
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[3.584]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.9633]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1691]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.9072]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.2716]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.8022]	5.000	0.3034	ug/L	!ib
Copper	A	[0.9483]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.701]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.4723]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[3.091]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.026]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[7.103]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	[28.39]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2934658	-2.46

!=warning ib=instrument blank

97438642021

00368

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642025 File : 103107cr Time : 31-OCT-2007 16:23
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	510.9	ug/L	2	20	
Arsenic	A	500.0	535.6	ug/L	7	20	
Barium	A	500.0	513.1	ug/L	3	20	
Beryllium	A	500.0	508.3	ug/L	2	20	
Cadmium	A	1000	970.8	ug/L	-3	20	
Chromium	A	500.0	483.5	ug/L	-3	20	
Cobalt	A	500.0	455.1	ug/L	-9	20	
Copper	A	500.0	516.6	ug/L	3	20	
Lead	A	1000	903.2	ug/L	-10	20	
Manganese	A	500.0	502.5	ug/L	0	20	
Molybdenum	A	500.0	526.3	ug/L	5	20	
Nickel	A	1000	921.7	ug/L	-8	20	
Selenium	A	500.0	494.9	ug/L	-1	20	
Silver	A	1000	1065	ug/L	7	20	
Thallium	A	500.0	415.4	ug/L	-17	20	
Titanium	A	20000	19310	ug/L	-3		
Vanadium	A	500.0	513.6	ug/L	3	20	
Zinc	A	1000	956.7	ug/L	-4	20	
Aluminum	R	500000	409300	ug/L	-18		
Calcium	R	500000	393900	ug/L	-21		
Iron	R	200000	155000	ug/L	-23		
Magnesium	R	500000	399500	ug/L	-20		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2576044	-14.38

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642027 File : 103107cr Time : 31-OCT-2007 16:30
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.457	19.396	5000	5040	ug/L	1	10	
Arsenic	A	10.838	11.074	5000	5171	ug/L	3	10	
Barium	A	102.59	103.23	5000	5149	ug/L	3	10	
Beryllium	A	4866.6	4942.6	500.0	505.7	ug/L	1	10	
Boron	A	213.46	225.36	5000	5177	ug/L	4	10	
Cadmium	A	169.87	173.82	5000	5158	ug/L	3	10	
Chromium	A	172.57	178.97	5000	4984	ug/L	0	10	
Cobalt	A	59.947	59.006	5000	4892	ug/L	-2	10	
Copper	A	206.25	205.81	5000	4951	ug/L	-1	10	
Lead	A	53.918	58.259	5000	5202	ug/L	4	10	
Manganese	A	515.65	526.26	5000	5123	ug/L	2	10	
Molybdenum	A	43.939	42.859	5000	5004	ug/L	0	10	
Nickel	A	85.380	87.737	5000	4948	ug/L	-1	10	
Selenium	A	15.135	13.855	5000	4982	ug/L	0	10	
Silver	A	562.59	556.71	1000	1027	ug/L	3	10	
Thallium	A	11.112	10.437	5000	4844	ug/L	-3	10	
Tin	A	19.243	19.732	5000	4980	ug/L	0	10	
Titanium	A	762.68	766.24	5000	5031	ug/L	1	10	
Vanadium	A	208.03	220.59	5000	5028	ug/L	1	10	
Zinc	A	99.906	86.995	5000	4943	ug/L	-1	10	
Aluminum	R	0.7839	0.8023	20000	19740	ug/L	-1	10	
Calcium	R	8.3790	8.4605	20000	19940	ug/L	0	10	
Iron	R	2.5078	2.5833	20000	20090	ug/L	0	10	
Magnesium	R	1.2931	1.3224	20000	20080	ug/L	0	10	
Potassium	R	2.8514	2.6851	20000	19750	ug/L	-1	10	
Sodium	R	316.50	320.57	20000	20200	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2786009	-7.41

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642029 File : 103107cr Time : 31-OCT-2007 16:37
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[3.310]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[1.214]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1553]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[1.107]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.4182]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.239]	5.000	0.3034	ug/L	!ib
Copper	A	[1.351]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.5820]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[4.096]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.6111]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[3.106]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.230]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.057]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[15.08]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[116.7]	500.0	39.71	ug/L	!ib
Sodium	R	[39.20]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2944206	-2.15

!=warning ib=instrument blank

97438642029

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642041 File : 103107cr Time : 31-OCT-2007 17:21
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.457	19.381	5000	5036	ug/L	1	10	
Arsenic	A	10.838	10.978	5000	5127	ug/L	3	10	
Barium	A	102.59	103.91	5000	5183	ug/L	4	10	
Beryllium	A	4866.6	4986.0	500.0	510.1	ug/L	2	10	
Boron	A	213.46	226.18	5000	5195	ug/L	4	10	
Cadmium	A	169.87	169.59	5000	5032	ug/L	1	10	
Chromium	A	172.57	180.32	5000	5022	ug/L	0	10	
Cobalt	A	59.947	59.263	5000	4914	ug/L	-2	10	
Copper	A	206.25	210.22	5000	5057	ug/L	1	10	
Lead	A	53.918	56.104	5000	5010	ug/L	0	10	
Manganese	A	515.65	521.34	5000	5075	ug/L	2	10	
Molybdenum	A	43.939	42.742	5000	4991	ug/L	0	10	
Nickel	A	85.380	87.525	5000	4936	ug/L	-1	10	
Selenium	A	15.135	13.806	5000	4965	ug/L	-1	10	
Silver	A	562.59	545.68	1000	1007	ug/L	1	10	
Thallium	A	11.112	10.675	5000	4955	ug/L	-1	10	
Tin	A	19.243	19.613	5000	4950	ug/L	-1	10	
Titanium	A	762.68	771.17	5000	5063	ug/L	1	10	
Vanadium	A	208.03	222.20	5000	5064	ug/L	1	10	
Zinc	A	99.906	87.458	5000	4970	ug/L	-1	10	
Aluminum	R	0.7839	0.8021	20000	19730	ug/L	-1	10	
Calcium	R	8.3790	8.3827	20000	19760	ug/L	-1	10	
Iron	R	2.5078	2.5343	20000	19710	ug/L	-1	10	
Magnesium	R	1.2931	1.3111	20000	19910	ug/L	0	10	
Potassium	R	2.8514	2.6638	20000	19600	ug/L	-2	10	
Sodium	R	316.50	318.45	20000	20060	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2796878	-7.04

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642043 File : 103107cr Time : 31-OCT-2007 17:27
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.064]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[1.588]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2130]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[1.512]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.7244]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.447]	5.000	0.3034	ug/L	!ib
Copper	A	[1.558]	5.000	0.8535	ug/L	!ib
Lead	A	[1.066]	3.000	0.6892	ug/L	!ib
Manganese	A	[0.9634]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.402]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.054]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.566]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.025]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.544]	20.00	0.8377	ug/L	!ib
Aluminum	R	[17.76]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[18.05]	100.0	6.086	ug/L	!ib
Magnesium	R	[12.97]	200.0	10.47	ug/L	!ib
Potassium	R	[73.02]	500.0	39.71	ug/L	!ib
Sodium	R	[66.83]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2926059	-2.75

!=warning ib=instrument blank

97438642043

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642047 File : 103107cr Time : 31-OCT-2007 17:44
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	501.3	ug/L	0	20	
Arsenic	A	500.0	514.9	ug/L	3	20	
Barium	A	500.0	511.4	ug/L	2	20	
Beryllium	A	500.0	507.8	ug/L	2	20	
Cadmium	A	1000	929.6	ug/L	-7	20	
Chromium	A	500.0	482.6	ug/L	-3	20	
Cobalt	A	500.0	450.8	ug/L	-10	20	
Copper	A	500.0	524.4	ug/L	5	20	
Lead	A	1000	853.1	ug/L	-15	20	
Manganese	A	500.0	493.0	ug/L	-1	20	
Molybdenum	A	500.0	527.6	ug/L	6	20	
Nickel	A	1000	910.2	ug/L	-9	20	
Selenium	A	500.0	489.5	ug/L	-2	20	
Silver	A	1000	1043	ug/L	4	20	
Thallium	A	500.0	455.1	ug/L	-9	20	
Titanium	A	20000	19350	ug/L	-3		
Vanadium	A	500.0	512.9	ug/L	3	20	
Zinc	A	1000	949.8	ug/L	-5	20	
Aluminum	R	500000	470800	ug/L	-6		
Calcium	R	500000	443200	ug/L	-11		
Iron	R	200000	174200	ug/L	-13		
Magnesium	R	500000	452200	ug/L	-10		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2546702	-15.36

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642049 File : 103107cr Time : 31-OCT-2007 17:51
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.457	19.326	5000	5022	ug/L	0	10	
Arsenic	A	10.838	11.047	5000	5159	ug/L	3	10	
Barium	A	102.59	104.19	5000	5197	ug/L	4	10	
Beryllium	A	4866.6	5038.6	500.0	515.5	ug/L	3	10	
Boron	A	213.46	226.20	5000	5196	ug/L	4	10	
Cadmium	A	169.87	169.50	5000	5030	ug/L	1	10	
Chromium	A	172.57	180.82	5000	5036	ug/L	1	10	
Cobalt	A	59.947	59.493	5000	4933	ug/L	-1	10	
Copper	A	206.25	211.79	5000	5095	ug/L	2	10	
Lead	A	53.918	55.469	5000	4953	ug/L	-1	10	
Manganese	A	515.65	524.08	5000	5102	ug/L	2	10	
Molybdenum	A	43.939	43.118	5000	5034	ug/L	1	10	
Nickel	A	85.380	89.392	5000	5041	ug/L	1	10	
Selenium	A	15.135	13.955	5000	5018	ug/L	0	10	
Silver	A	562.59	538.33	1000	993.1	ug/L	-1	10	
Thallium	A	11.112	10.862	5000	5041	ug/L	1	10	
Tin	A	19.243	19.661	5000	4962	ug/L	-1	10	
Titanium	A	762.68	780.87	5000	5127	ug/L	3	10	
Vanadium	A	208.03	222.52	5000	5072	ug/L	1	10	
Zinc	A	99.906	87.869	5000	4993	ug/L	0	10	
Aluminum	R	0.7839	0.8184	20000	20140	ug/L	1	10	
Calcium	R	8.3790	8.6273	20000	20340	ug/L	2	10	
Iron	R	2.5078	2.5787	20000	20060	ug/L	0	10	
Magnesium	R	1.2931	1.3653	20000	20730	ug/L	4	10	
Potassium	R	2.8514	2.6935	20000	19820	ug/L	-1	10	
Sodium	R	316.50	320.74	20000	20210	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2831769	-5.88

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642051 File : 103107cr Time : 31-OCT-2007 17:58
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[4.778]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[2.243]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2779]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[2.077]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.6365]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.953]	5.000	0.3034	ug/L	!ib
Copper	A	[1.757]	5.000	0.8535	ug/L	!ib
Lead	A	[1.926]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.466]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.874]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.619]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	[0.9148]	5.000	0.7459	ug/L	!ib
Thallium	A	[3.966]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.456]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.247]	5.000	1.034	ug/L	!ib
Zinc	A	[2.004]	20.00	0.8377	ug/L	!ib
Aluminum	R	[22.48]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[20.51]	100.0	6.086	ug/L	!ib
Magnesium	R	[19.13]	200.0	10.47	ug/L	!ib
Potassium	R	[90.59]	500.0	39.71	ug/L	!ib
Sodium	R	[27.02]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2967508	-1.37

!=warning ib=instrument blank

97438642051

00376

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97438642 Instrument: MET09 PE ICP MET09 Begun: 31-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
01	103107cr	ICALBLK				31-OCT-2007 14:42	1.0	1.0				
02	103107cr	ICAL	CRIM08			31-OCT-2007 14:46	1.0	1.0			1	
03	103107cr	ICAL	CS100			31-OCT-2007 14:50	1.0	1.0			2	
04	103107cr	ICAL	CS1K			31-OCT-2007 14:52	1.0	1.0			3	
05	103107cr	ICAL	CS10K			31-OCT-2007 14:55	1.0	1.0			4	
06	103107cr	ICAL	CS100K			31-OCT-2007 14:58	1.0	1.0			5	
07	103107cr	ICV				31-OCT-2007 15:00	1.0	1.0		5000	6	
08	103107cr	ICB				31-OCT-2007 15:07	1.0	1.0		5000		
09	103107cr	ICSA				31-OCT-2007 15:11	1.0	1.0		5000	7	10:AL=474527
10	103107cr	ICSAB				31-OCT-2007 15:33	1.0	1.0		5000	8	5:AL=461072
11	103107cr	BLANK	QC413143	131164	WET Le	31-OCT-2007 15:36	10.0	5.0	1	5000		1:NA=173908
12	103107cr	BS	QC413144	131164	WET Le	31-OCT-2007 15:40	1.0	1.0		5000		
13	103107cr	BSD	QC413145	131164	WET Le	31-OCT-2007 15:42	1.0	1.0		5000		
14	103107cr	MSS	198776-001	131164	WET Le	31-OCT-2007 15:45	10.0	5.0	1	5000		1:NA=162142
15	103107cr	MS	QC413146	131164	WET Le	31-OCT-2007 15:48	10.0	5.0	1	5000		1:NA=166630
16	103107cr	MSD	QC413147	131164	WET Le	31-OCT-2007 15:51	10.0	5.0	1	5000		1:NA=165474
17	103107cr	ICSAB				31-OCT-2007 15:54	1.0	1.0		5000	8	5:AL=468001
18	103107cr	X	RINSE			31-OCT-2007 15:57	1.0					
19	103107cr	CCV				31-OCT-2007 16:01	1.0	1.0		5000	9	
20	103107cr	X	FLUSH			31-OCT-2007 16:03	1.0					
21	103107cr	CCB				31-OCT-2007 16:07	1.0	1.0		5000		
22	103107cr	SAMPLE	198785-001	131164	WET Le	31-OCT-2007 16:11	10.0	5.0		5000		1:NA=163322
23	103107cr	SAMPLE	198786-001	131164	WET Le	31-OCT-2007 16:15	10.0	5.0		5000		1:NA=181274
24	103107cr	SAMPLE	198786-002	131164	WET Le	31-OCT-2007 16:19	10.0	5.0		5000		1:NA=190831
25	103107cr	ICSAB				31-OCT-2007 16:23	1.0	1.0		5000	8	5:AL=409306
26	103107cr	X	RINSE			31-OCT-2007 16:26	1.0					
27	103107cr	CCV				31-OCT-2007 16:30	1.0	1.0		5000	9	
28	103107cr	X	FLUSH			31-OCT-2007 16:33	1.0					
29	103107cr	CCB				31-OCT-2007 16:37	1.0	1.0		5000		
30	103107cr	SER	QC413148	131164	WET Le	31-OCT-2007 16:45	50.0	5.0		5000		
31	103107cr	PDS	QC413149	131164	WET Le	31-OCT-2007 16:48	10.0	5.0		5000	10 11	1:NA=180985

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 10/31/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97438642 Instrument: MET09 PE ICP MET09 Begun: 31-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
32	103107cr	SAMPLE	198818-002	131130	Soil	31-OCT-2007 16:50	10.0	47.62	1	5000		
33	103107cr	X	RINSE			31-OCT-2007 16:53	1.0					
34	103107cr	BLANK	QC413080	131150	Water	31-OCT-2007 16:57	1.0	1.0		5000		
35	103107cr	BS	QC413081	131150	Water	31-OCT-2007 17:01	1.0	1.0		5000		
36	103107cr	BSD	QC413082	131150	Water	31-OCT-2007 17:04	1.0	1.0		5000		
37	103107cr	MSS	198818-008	131150	Water	31-OCT-2007 17:07	1.0	1.0		5000		
38	103107cr	MS	QC413083	131150	Water	31-OCT-2007 17:11	1.0	1.0		5000		
39	103107cr	MSD	QC413084	131150	Water	31-OCT-2007 17:14	1.0	1.0		5000		
40	103107cr	X	RINSE			31-OCT-2007 17:17	1.0					
41	103107cr	CCV				31-OCT-2007 17:21	1.0	1.0		5000	9	
42	103107cr	X	FLUSH			31-OCT-2007 17:23	1.0					
43	103107cr	CCB				31-OCT-2007 17:27	1.0	1.0		5000		
44	103107cr	SER	QC413085	131150	Water	31-OCT-2007 17:31	5.0	1.0	1	5000		
45	103107cr	X	QC413086	131150	Water	31-OCT-2007 17:35	1.0	1.0	11	5000	12 13	
46	103107cr	PDS	QC413086	131150	Water	31-OCT-2007 17:41	1.0	1.0		5000	12 13	
47	103107cr	ICSAB				31-OCT-2007 17:44	1.0	1.0		5000	8	5:AL=470822
48	103107cr	X	RINSE			31-OCT-2007 17:48	1.0					
49	103107cr	CCV				31-OCT-2007 17:51	1.0	1.0		5000	9	
50	103107cr	X	FLUSH			31-OCT-2007 17:54	1.0					
51	103107cr	CCB				31-OCT-2007 17:58	1.0	1.0		5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 10/31/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198818 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
198818-008	MET14	10/31/07 15:30	1.0										+							
198818-008	MET09	10/31/07 17:07	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413069	MET14	10/31/07 15:03	1.0										+							
QC413070	MET14	10/31/07 15:05	1.0										+							
QC413071	MET14	10/31/07 15:07	1.0										+							
QC413072	MET14	10/31/07 15:11	5.0										+							
QC413073	MET14	10/31/07 15:13	1.0										+							
QC413074	MET14	10/31/07 15:15	1.0										+							
QC413080	MET09	10/31/07 16:57	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413081	MET09	10/31/07 17:01	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413082	MET09	10/31/07 17:04	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413083	MET09	10/31/07 17:11	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413084	MET09	10/31/07 17:14	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413085	MET09	10/31/07 17:31	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413086	MET09	10/31/07 17:41	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 31-OCT-2007 11:47

Batch Number : 131150
Date Extracted: 31-OCT-2007
Extracted by : Kevin Gaines
Prep Method : 3010A

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S6920
Spike #2 ID : S6921
Spike #3 ID :
SOP Version : 3010A_ICP_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198744-002			Weston Solutions	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
198744-003			Weston Solutions	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
198749-002			Tetra Tech EC, INC	Water	50	mL	50	1.000000	1				PB		
198749-003			Tetra Tech EC, INC	Water	50	mL	50	1.000000	1				PB		
198749-004			Tetra Tech EC, INC	Water	50	mL	50	1.000000	1				PB		
198763-001			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/ICP		
198814-002			Weston Solutions	Water	50	mL	50	1.000000	1				TAL/ICP		
198814-003			Weston Solutions	Water	50	mL	50	1.000000	1				TAL/ICP		
198818-008			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/ICP		
198834-002			LFR Levine Fricke	Water	50	mL	50	1.000000	1				FE		
198834-003			LFR Levine Fricke	Water	50	mL	50	1.000000	1				FE		
QC413080	BLANK			Water	50	mL	50	1.000000	1				ICAP		
QC413081	BS			Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC413082	BSD			Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC413083	MS	of 198818-008		Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC413084	MSD	of 198818-008		Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC413085	SER	of 198818-008		Water	50	mL	50	1.000000	1				ICAP		
QC413086	PDS	of 198818-008		Water	50	mL	50	1.000000	1				ICAP		

Prep Chemist: [signature] 10/31/07 Reviewed By: [signature] Date: 10/31/07

Relinquished By: [signature] 10/31/07 Received By: [signature] Date: 10/31/07

00330

Water Digestion for ICP 8:00 AM Curtis & Tompkins, Ltd.

LIMS Batch #: 131150
Date Digested: 10/31/07
Digested by: [signature]

Digestion Method
☑ ~~EPA~~ 3010a for ICP
☐ EPA 200.7
☐ _____

BK 2547
Page 82
Continued From: /
Continued On: /

	Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLK	50	50		
	LCS				
	LCSD				
	MS-08 H				
5	MSD-08				
	- 198818-08				
	744-02 I				FIELD FILTERED
	03				↓
	- 745-02 H				
10	03 G				
	04 H				
	- 763-01 D				
	- 814-02 J				
	03 I				
15	- 834-02 K				
	03	↓	↓		
20					

Reagent ID or LIMS #	Initials / Date
95	[signature] 10/31
SUG50	
SUG21	
222071	
111055 080607	

5 digestion temperature (90-95 degrees C)
5 mL of spike solution was added to all spikes

☐ 1:1 HNO3, ☐ concentrated HNO3, added to all samples
1:1 HCl added to all samples
☐ filtered thru' Whatman # 541
Relinquished to ICP group

[signature] 10/31/07
Prep Chemist Signature / Date

[signature] 10.31.07
Reviewer Signature / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

st : MET14
lnum : 847438643001
its : ug/L

Date : 31-OCT-2007 14:43
X Axis : R

Reviewer : ---
Type : WATER

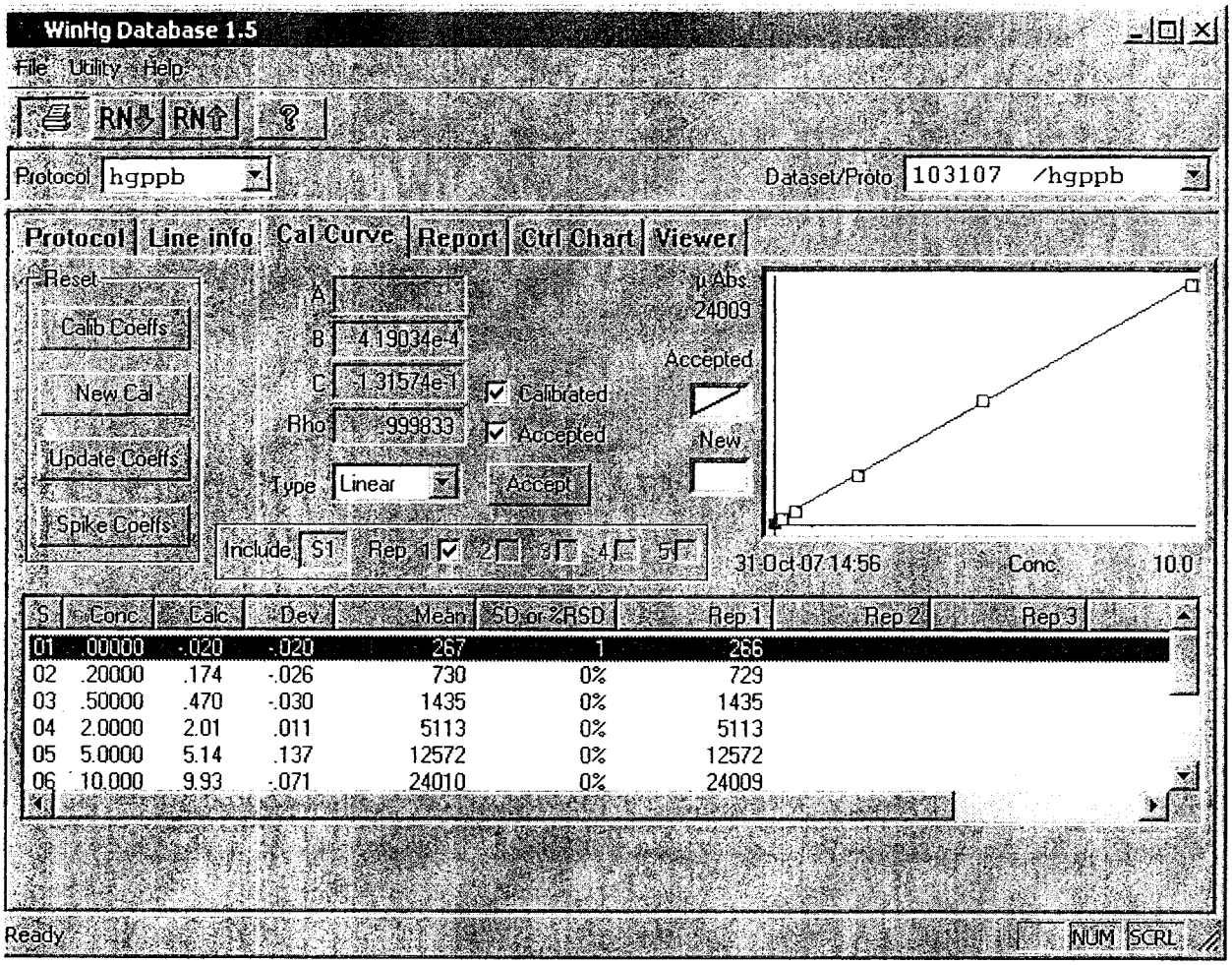
vel	File	Seqnum	Sample ID	Analyzed	Stds
1	131148	847438643002	STD02REP1	31-OCT-2007 14:45	S7570 (500X)
2	131148	847438643003	STD03REP1	31-OCT-2007 14:48	S7570 (200X)
3	131148	847438643004	STD04REP1	31-OCT-2007 14:51	S7570 (50X)
4	131148	847438643005	STD05REP1	31-OCT-2007 14:53	S7570 (20X)
5	131148	847438643006	STD06REP1	31-OCT-2007 14:55	S7570 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	3645.0	2870.0	2556.5	2514.4	2400.9	LINR	-0.1316	4.19E-4		2797.4	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.200	-13	0.500	-6	2.000	1	5.000	3	10.00	-1

rument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

847438643001


WinHg Database 1.5
File Utility Help
RN
RN
Protocol hgppb
Dataset/Proto 103107 /hgppb
Protocol
Line info
Cal Curve
Report
Ctrl Chart
Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 4.19034e-4
C -1.31574e-1
Rho .999833
Calibrated
Accepted
Type Linear
Accept
Include S1 Rep 1 2 3 4 5
µ Abs
24009
Accepted
New
31-Oct-07 14:56
Conc.
10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.020 -.020 267 1 266
02 .20000 .174 -.026 730 0% 729
03 .50000 .470 -.030 1435 0% 1435
04 2.0000 2.01 .011 5113 0% 5113
05 5.0000 5.14 .137 12572 0% 12572
06 10.000 9.93 -.071 24010 0% 24009
Ready
NUM
SCRL

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		14:43:02 31 Oct 07			HG
Hg	.000	ppb	266						
		Bkgd 1	17563834						
*** Standard: 2 Rep: 1				Seq: 2		14:45:29 31 Oct 07			HG
Hg	.200	ppb	729						
		Bkgd 1	17564214						
*** Standard: 3 Rep: 1				Seq: 3		14:48:24 31 Oct 07			HG
Hg	.500	ppb	1435						
		Bkgd 1	17560904						
*** Standard: 4 Rep: 1				Seq: 4		14:51:09 31 Oct 07			HG
Hg	2.00	ppb	5113						
		Bkgd 1	17557645						
*** Standard: 5 Rep: 1				Seq: 5		14:53:43 31 Oct 07			HG
Hg	5.00	ppb	12572						
		Bkgd 1	17547830						
*** Standard: 6 Rep: 1				Seq: 6		14:55:57 31 Oct 07			HG
Hg	10.0	ppb	24009						
		Bkgd 1	17540680						
*** Check Standard: 2			Ck2S7572	Seq: 7		14:58:27 31 Oct 07			HG
Line	Flag		Intensities						
Hg			12678						
		Bkgd 1	17534254						
*** Check Standard: 1			Ck1ICB	Seq: 8		15:00:43 31 Oct 07			HG
Line	Flag		Intensities						
Hg			281						
		Bkgd 1	17528330						
*** Sample ID: qc413069				Seq: 9		15:03:00 31 Oct 07			HG
			131148,1						
Hg	-.146	ppb	-34						
		Bkgd 1	17520237						

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 847438643 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 31-OCT-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131148	ICALBLK	STD01REP1				31-OCT-2007 14:43	1.0	1.0									
131148	ICAL	STD02REP1				31-OCT-2007 14:45	1.0	1.0									
131148	ICAL	STD03REP1				31-OCT-2007 14:48	1.0	1.0									
131148	ICAL	STD04REP1				31-OCT-2007 14:51	1.0	1.0									
131148	ICAL	STD05REP1				31-OCT-2007 14:53	1.0	1.0									
131148	ICAL	STD06REP1				31-OCT-2007 14:55	1.0	1.0									
131148	ICV					31-OCT-2007 14:58	1.0	1.0	2	5.000	847438643001	5.180		ug/L	104		
131148	ICB					31-OCT-2007 15:00	1.0	1.0			847438643001	ND	0.20	ug/L			
131148	BLANK	QC413069		131148	Water	31-OCT-2007 15:03	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	BS	QC413070		131148	Water	31-OCT-2007 15:05	1.0	1.0		5.000	847438643001	4.850	0.20	ug/L	97		u
131148	BSD	QC413071		131148	Water	31-OCT-2007 15:07	1.0	1.0		5.000	847438643001	5.030	0.20	ug/L	101	4	u
131148	MSS	198814-002		131148	Water	31-OCT-2007 15:09	1.0	1.0			847438643001	0.73	0.20	ug/L			u
131148	SER	QC413072	198814-002	131148	Water	31-OCT-2007 15:11	5.0	1.0			847438643001	ND	1.0	ug/L		--	u
131148	MS	QC413073	198814-002	131148	Water	31-OCT-2007 15:13	1.0	1.0		5.000	847438643001	5.360	0.20	ug/L	93		u
131148	MSD	QC413074	198814-002	131148	Water	31-OCT-2007 15:15	1.0	1.0		5.000	847438643001	5.470	0.20	ug/L	95	2	u
131148	SAMPLE	198789-001		131148	Water	31-OCT-2007 15:18	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198799-001		131148	Filtra	31-OCT-2007 15:20	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198814-003		131148	Water	31-OCT-2007 15:22	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	CCV					31-OCT-2007 15:24	1.0	1.0	3	2.500	847438643001	2.660		ug/L	106		
131148	CCB					31-OCT-2007 15:26	1.0	1.0			847438643001	[0.04800]	0.20	ug/L			!ib
131148	SAMPLE	198818-008		131148	Water	31-OCT-2007 15:30	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198819-001		131148	Water	31-OCT-2007 15:32	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198820-001		131148	Water	31-OCT-2007 15:34	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198826-001		131148	Filtra	31-OCT-2007 15:36	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198832-001		131148	Filtra	31-OCT-2007 15:39	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198832-002		131148	Filtra	31-OCT-2007 15:41	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198832-003		131148	Filtra	31-OCT-2007 15:44	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198832-005		131148	Filtra	31-OCT-2007 15:46	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198832-006		131148	Filtra	31-OCT-2007 15:48	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	SAMPLE	198832-007		131148	Filtra	31-OCT-2007 15:50	1.0	1.0			847438643001	ND	0.20	ug/L			u
131148	CCV					31-OCT-2007 15:53	1.0	1.0	4	7.500	847438643001	8.120		ug/L	108		
131148	CCB					31-OCT-2007 15:56	1.0	1.0			847438643001	ND	0.20	ug/L			

d used: 1=S7570 2=S7572 3=S7573 4=S7575
a used: !=warning ib=instrument blank u=use

alyst: _____ Date: 10/31/07

e 1 of 1

Curtis & Tompkins Laboratories Sample Preparation Summary 31-OCT-2007 11:33

Batch Number	: 131148	Analysis	: N/A	Spike #1 ID	: S7570
Date Extracted	: 31-OCT-2007	Bgroup	: HG	Spike #2 ID	:
Extracted by	: Jon Marshall	Units	: mL	Spike #3 ID	:
Prep Method	: METHOD	Clean-up	:	SOP Version	:

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198789-001		New Logic Research	Water	50	mL	50	1.000000	1				TAL/HG		
198799-001		CH2M Hill	Filtrate	50	mL	50	1.000000	1				TAL/HG		
198814-002		Weston Solutions	Water	50	mL	50	1.000000	1				TAL/HG		MSS
198814-003		Weston Solutions	Water	50	mL	50	1.000000	1				TAL/HG		
198818-008		Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/HG		
198819-001		TRC Environmental Solutions, I	Water	50	mL	50	1.000000	1				T26/HG		
198820-001		TRC Environmental Solutions, I	Water	50	mL	50	1.000000	1				T26/HG		
198826-001		LFR Levine Fricke	Filtrate	50	mL	50	1.000000	1				T26/HG		
198832-001		Aerojet	Filtrate	50	mL	50	1.000000	1				T26/HG		
198832-002		Aerojet	Filtrate	50	mL	50	1.000000	1				T26/HG		
198832-003		Aerojet	Filtrate	50	mL	50	1.000000	1				T26/HG		
198832-005		Aerojet	Filtrate	50	mL	50	1.000000	1				T26/HG		
198832-006		Aerojet	Filtrate	50	mL	50	1.000000	1				T26/HG		
198832-007		Aerojet	Filtrate	50	mL	50	1.000000	1				T26/HG		
QC413069	BLANK		Water	50	mL	50	1.000000	1				HG		
QC413070	BS		Water	50	mL	50	1.000000	1	2.5			HG		
QC413071	BSD		Water	50	mL	50	1.000000	1	2.5			HG		
QC413072	SER	of 198814-002	Water	50	mL	50	1.000000	1				HG		
QC413073	MS	of 198814-002	Water	50	mL	50	1.000000	1	2.5			HG		
QC413074	MSD	of 198814-002	Water	50	mL	50	1.000000	1	2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 10-31-07

Relinquished By: _____ Received By: _____ Date: 10/31/07

9056

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 131148
Date Digested: 10/3/07
Digested by: JXM

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2597
Page 18

	Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
	198789-001E	50.0	50.0	N	H_2O
	198799-001B				filtrate
	198814-002J				MSS H_2O
	↓ 03I				
5	198818-008H				
	198819-001D				
	198820-001D				
	198832-001E				filtrate
	02				
10	03				
	05				
	06				
	07				
	198826-001A				unpreserved
15	~~198836~~ JXM 10/3/07				
	MB 82413066	50.0	50.0	N	
	BS 70				
	BSD 71				
	MS 73				
20	MSD 74				
					JXM 10/3/07

Reagent ID/ LIMS# / Time	Initials / Date
S7570	JXM 10/3/07
↓	
S7572/73/74/75	
11:30/95C	
13:30/95C	
JTB060036	
JTB E2007	
K 103107	
K_2 10/5/07	
Hg 10/5/07	
$SnCl_2$ 103007	
—	

2.5 mL of spike solution was added to all spikes

Digestion of Samples & Standards:
ICAL Source WS#
ICV / CCV WS#
Time ON / Temperature ON
Time OFF/ Temperature OFF
concentrated H_2SO_4
concentrated HNO_3
5% $KMnO_4$
5% $K_2S_2O_8$
NaCl.hydroxylamine hydrochloride
Stannous Chloride
☐ filtered thru' 0.45 um syringe filter

10/3/07
Prep Chemist / Date

Continued from page _____
Continued on page _____

6/3/07
Reviewed by / Date

Curtis & Tompkins, Ltd.

Metals
(Soil)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198818	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX350[4.0]	Basis:	dry
Lab ID:	198818-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07

Moisture: 20%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.40 J	0.63	0.099	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Arsenic	3.4	0.33	0.11	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Barium	200	0.31	0.025	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Beryllium	0.31	0.13	0.0027	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cadmium	0.31 J	0.31	0.027	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Chromium	57	0.31	0.033	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cobalt	8.0	0.31	0.024	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Copper	37	0.33	0.11	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Lead	240	0.21	0.070	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Mercury	0.49	0.025	0.0043	131157	10/31/07	10/31/07	METHOD	EPA 7471A
Molybdenum	0.19 J	0.31	0.058	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Nickel	51	0.31	0.027	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.63	0.054	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Silver	0.27 J	0.31	0.065	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.63	0.097	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Vanadium	41	0.31	0.034	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Zinc	210	1.3	0.041	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198818	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	DUP103007	Basis:	dry
Lab ID:	198818-002	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	mg/Kg		

Moisture: 21%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.78	0.63	0.11	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Arsenic	4.9	0.35	0.12	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Barium	760	3.0	0.26	10.00	131130	10/30/07	10/31/07	EPA 3050B	EPA 6010B
Beryllium	0.39	0.13	0.0029	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cadmium	0.34	0.32	0.029	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Chromium	63	0.32	0.035	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cobalt	10	0.32	0.026	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Copper	51	0.35	0.12	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Lead	510	0.22	0.075	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Mercury	0.81	0.025	0.0051	1.000	131157	10/31/07	10/31/07	METHOD	EPA 7471A
Molybdenum	0.27 J	0.32	0.061	1.000	131130	10/30/07	10/31/07	EPA 3050B	EPA 6010B
Nickel	51	0.32	0.029	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.63	0.057	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Silver	0.31 J	0.32	0.069	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.63	0.10	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Vanadium	45	0.32	0.036	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Zinc	260	1.3	0.043	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198818	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX351[4.0]	Basis:	dry
Lab ID:	198818-003	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	mg/Kg		

Moisture: 8%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.28 J	0.54	0.090	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Arsenic	1.1	0.30	0.099	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Barium	57	0.27	0.022	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Beryllium	0.22	0.11	0.0025	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cadmium	0.23 J	0.27	0.025	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Chromium	7.8	0.27	0.030	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cobalt	17	0.27	0.022	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Copper	40	0.30	0.099	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Lead	ND	0.19	0.064	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Mercury	9.2	0.38	0.089	20.00	131157	10/31/07	10/31/07	METHOD	EPA 7471A
Molybdenum	ND	0.27	0.053	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Nickel	15	0.27	0.025	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.54	0.049	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.27	0.059	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.54	0.089	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Vanadium	130	0.27	0.031	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Zinc	51	1.1	0.037	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198818	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX352[4.0]	Basis:	dry
Lab ID:	198818-004	Diln Fac:	1.000
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07

Moisture: 17%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.55 J	0.60	0.099	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Arsenic	3.3	0.33	0.11	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Barium	130	0.30	0.025	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Beryllium	0.29	0.12	0.0027	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cadmium	0.23 J	0.30	0.027	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Chromium	61	0.30	0.033	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cobalt	11	0.30	0.024	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Copper	26	0.33	0.11	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Lead	280	0.21	0.070	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Mercury	0.22	0.024	0.0049	131157	10/31/07	10/31/07	METHOD	EPA 7471A
Molybdenum	0.29 J	0.30	0.058	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Nickel	80	0.30	0.027	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.054	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.065	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.097	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Vanadium	42	0.30	0.034	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Zinc	180	1.2	0.041	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198818	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX353[4.0]	Basis:	dry
Lab ID:	198818-005	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	mg/Kg		

Moisture: 10%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.56	0.097	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Arsenic	ND	0.32	0.11	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Barium	32	0.28	0.024	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Beryllium	0.27	0.11	0.0027	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cadmium	0.18 J	0.28	0.027	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Chromium	8.1	0.28	0.032	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cobalt	17	0.28	0.024	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Copper	38	0.32	0.11	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Lead	ND	0.21	0.069	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Mercury	8.9	0.35	0.082	20.00	131157	10/31/07	10/31/07	METHOD	EPA 7471A
Molybdenum	ND	0.28	0.056	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Nickel	14	0.28	0.026	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.56	0.052	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.28	0.064	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.095	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Vanadium	110	0.28	0.033	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Zinc	45	1.1	0.040	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198818	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX355[4.0]	Basis:	dry
Lab ID:	198818-006	Diln Fac:	1.000
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07

Moisture: 14%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.19 J	0.58	0.097	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Arsenic	1.0	0.32	0.11	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Barium	38	0.29	0.024	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Beryllium	0.14	0.12	0.0026	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cadmium	0.068 J	0.29	0.027	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Chromium	58	0.29	0.032	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cobalt	6.5	0.29	0.023	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Copper	13	0.32	0.11	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Lead	4.7	0.21	0.068	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Mercury	ND	0.023	0.0054	131157	10/31/07	10/31/07	METHOD	EPA 7471A
Molybdenum	ND	0.29	0.056	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Nickel	40	0.29	0.026	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.58	0.052	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.29	0.063	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.58	0.095	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Vanadium	35	0.29	0.033	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Zinc	29	1.2	0.040	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198818	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX356[4.0]	Basis:	dry
Lab ID:	198818-007	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	mg/Kg		

Moisture: 4%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.22 J	0.52	0.086	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Arsenic	ND	0.29	0.095	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Barium	16	0.26	0.021	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Beryllium	0.13	0.10	0.0024	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cadmium	0.13 J	0.26	0.024	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Chromium	4.1	0.26	0.029	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cobalt	11	0.26	0.021	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Copper	24	0.29	0.095	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Lead	ND	0.18	0.061	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Mercury	1.4	0.095	0.022	5.000	131157	10/31/07	10/31/07	METHOD	EPA 7471A
Molybdenum	ND	0.26	0.050	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Nickel	9.5	0.26	0.024	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Selenium	1.0	0.52	0.047	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.26	0.057	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.52	0.085	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Vanadium	75	0.26	0.030	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Zinc	35	1.0	0.036	1.000	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198818	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX354[4.0]	Basis:	dry
Lab ID:	198818-010	Diln Fac:	1.000
Matrix:	Soil	Sampled:	10/30/07
Units:	mg/Kg	Received:	10/30/07

Moisture: 12%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.30 J	0.57	0.088	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Arsenic	2.3	0.29	0.097	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Barium	37	0.28	0.022	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Beryllium	0.18	0.11	0.0024	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cadmium	0.16 J	0.28	0.024	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Chromium	69	0.28	0.029	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Cobalt	7.9	0.28	0.021	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Copper	9.0	0.29	0.097	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Lead	400	0.19	0.063	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Mercury	ND	0.025	0.0058	131157	10/31/07	10/31/07	METHOD	EPA 7471A
Molybdenum	0.075 J	0.28	0.052	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Nickel	48	0.28	0.024	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.57	0.048	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.28	0.058	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.57	0.087	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Vanadium	45	0.28	0.031	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B
Zinc	340	1.1	0.036	131130	10/30/07	10/30/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413007	Batch#:	131130
Matrix:	Soil	Prepared:	10/30/07
Units:	mg/Kg	Analyzed:	10/30/07
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.087
Arsenic	ND	0.29	0.096
Barium	ND	0.25	0.022
Beryllium	ND	0.10	0.0024
Cadmium	ND	0.25	0.024
Chromium	0.049 J	0.25	0.029
Cobalt	ND	0.25	0.021
Copper	ND	0.29	0.096
Lead	0.12 J	0.19	0.062
Molybdenum	ND	0.25	0.051
Nickel	ND	0.25	0.024
Selenium	0.20 J	0.50	0.047
Silver	ND	0.25	0.057
Thallium	ND	0.50	0.086
Vanadium	ND	0.25	0.030
Zinc	ND	1.0	0.036

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413107	Batch#:	131157
Matrix:	Soil	Prepared:	10/31/07
Units:	mg/Kg	Analyzed:	10/31/07

Result	RL	MDL
ND	0.020	0.0047

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

22.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	131130
Units:	mg/Kg	Prepared:	10/30/07
Basis:	as received	Analyzed:	10/30/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413008

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	85.22	85	75-125
Arsenic	50.00	47.30	95	75-125
Barium	100.0	95.73	96	75-125
Beryllium	2.500	2.469	99	75-125
Cadmium	10.00	9.721	97	75-125
Chromium	100.0	93.77	94	75-125
Cobalt	25.00	22.96	92	75-125
Copper	12.50	11.71	94	75-125
Lead	100.0	93.68	94	75-125
Molybdenum	20.00	20.04	100	75-125
Nickel	25.00	23.18	93	75-125
Selenium	50.00	46.34	93	75-125
Silver	10.00	9.152	92	75-125
Thallium	50.00	45.69	91	75-125
Vanadium	25.00	23.37	93	75-125
Zinc	25.00	23.50	94	75-125

Type: BSD Lab ID: QC413009

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	86.91	87	75-125	2	30
Arsenic	50.00	48.27	97	75-125	2	30
Barium	100.0	96.21	96	75-125	0	30
Beryllium	2.500	2.483	99	75-125	1	30
Cadmium	10.00	9.937	99	75-125	2	30
Chromium	100.0	94.47	94	75-125	1	30
Cobalt	25.00	23.43	94	75-125	2	30
Copper	12.50	11.81	94	75-125	1	30
Lead	100.0	94.95	95	75-125	1	30
Molybdenum	20.00	20.46	102	75-125	2	30
Nickel	25.00	23.59	94	75-125	2	30
Selenium	50.00	46.77	94	75-125	1	30
Silver	10.00	9.307	93	75-125	2	30
Thallium	50.00	45.49	91	75-125	0	30
Vanadium	25.00	23.64	95	75-125	1	30
Zinc	25.00	23.43	94	75-125	0	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131157
Units:	mg/Kg	Prepared:	10/31/07
Basis:	as received	Analyzed:	10/31/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC413108	0.5000	0.4980	100	75-125		
BSD	QC413109	0.5000	0.5190	104	75-125	4	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX352[4.0]	Batch#:	131130
MSS Lab ID:	198818-004	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	mg/Kg	Prepared:	10/30/07
Basis:	dry	Analyzed:	10/30/07
Diln Fac:	1.000		

Type: MS Moisture: 17%
Lab ID: QC413010

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.5489	108.5	54.30	50 *	75-125
Arsenic	3.295	54.27	51.92	90	75-125
Barium	133.3	108.5	250.4	108 P	75-125
Beryllium	0.2920	2.714	2.817	93	75-125
Cadmium	0.2339	10.85	9.950	90	75-125
Chromium	61.32	108.5	156.2	87	75-125
Cobalt	11.11	27.14	34.64	87	75-125
Copper	26.37	13.57	48.20	161 * P	75-125
Lead	277.9	108.5	347.1	64 * P	75-125
Molybdenum	0.2946	21.71	20.24	92	75-125
Nickel	80.22	27.14	121.1	151 * P	75-125
Selenium	<0.05357	54.27	47.88	88	75-125
Silver	<0.06497	10.85	9.874	91	75-125
Thallium	<0.09730	54.27	43.53	80	75-125
Vanadium	41.96	27.14	64.38	83 P	75-125
Zinc	178.4	27.14	203.5	93 NM	75-125

Type: MSD Moisture: 17%
Lab ID: QC413011

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	119.3	61.25	51 *	75-125	3	30
Arsenic	59.64	57.10	90	75-125	1	30
Barium	119.3	226.6	78 P	75-125	14	30
Beryllium	2.982	3.046	92	75-125	1	30
Cadmium	11.93	11.19	92	75-125	3	30
Chromium	119.3	187.1	105	75-125	12	30
Cobalt	29.82	37.46	88	75-125	1	30
Copper	14.91	41.06	99 P	75-125	19	30
Lead	119.3	319.8	35 * P	75-125	11	30
Molybdenum	23.86	22.55	93	75-125	1	30
Nickel	29.82	135.1	184 * P	75-125	8	30
Selenium	59.64	53.21	89	75-125	1	30
Silver	11.93	10.72	90	75-125	1	30
Thallium	59.64	48.50	81	75-125	1	30
Vanadium	29.82	69.36	92 P	75-125	4	30
Zinc	29.82	196.5	61 NM	75-125	5	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	1065EX352[4.0]	Batch#:	131157
MSS Lab ID:	198818-004	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	mg/Kg	Prepared:	10/31/07
Basis:	dry	Analyzed:	10/31/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC413111	0.2219	0.5792	0.8457	108	75-125	17%		
MSD	QC413112		0.5792	0.8503	108	75-125	17%	1	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX352[4.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	198818-004	Batch#:	131130
Lab ID:	QC413012	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	mg/Kg	Analyzed:	10/30/07

Moisture: 17%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	0.5489	0.6024	1.362 J	1.486	NC	10
Arsenic	3.295	0.3273	3.181	1.636	NC	10
Barium	133.3	0.3012	150.3	1.421	13 *	10
Beryllium	0.2920	0.1205	0.3368 J	0.5683	15 *	10
Cadmium	0.2339	0.3012	0.2780 J	1.421	NC	10
Chromium	61.32	0.3012	68.91	1.421	12 *	10
Cobalt	11.11	0.3012	12.88	1.421	16 *	10
Copper	26.37	0.3275	28.54	1.637	8	10
Lead	277.9	0.2109	317.8	1.054	14 *	10
Molybdenum	0.2946	0.3012	0.3153 J	1.421	NC	10
Nickel	80.22	0.3012	90.34	1.421	13 *	10
Selenium	ND	0.6024	ND	1.421	NC	10
Silver	ND	0.3012	ND	1.421	NC	10
Thallium	ND	0.6024	ND	1.460	NC	10
Vanadium	41.96	0.3012	46.19	1.421	10	10
Zinc	178.4	1.205	203.6	5.683	14 *	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	1065EX352[4.0]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131157
MSS Lab ID:	198818-004	Sampled:	10/30/07
Lab ID:	QC413110	Received:	10/30/07
Matrix:	Soil	Analyzed:	10/31/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.2219	0.02410	0.2204	0.1057	17%	NC	10

NC= Not Calculated
RL= Reporting Limit

27.1

: 00404

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : PDS
Inst : MET09
Seqnum : 97437321102
File : 103007ar
IDF : 1.0
Lab ID : QC413013
Matrix : Soil
Batch : 131130
Time : 30-OCT-2007 22:34
Cal : 97437321001
MSS : 198818-004
Units : ug/L

PDS: 1.06 g --> 50.0 ml = 47.17 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS Seqnum	Result	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	97437321107	9.659	A	2000	1859	A	92	75-125	u
Arsenic	97437321098	57.97	A	1000	1016	A	96	75-125	u y
Barium	97437321098	2346	A	2000	4187	A	92	75-125	u
Beryllium	97437321098	5.139	A	50.00	53.35	A	96	75-125	u
Cadmium	97437321098	4.116	A	200.0	195.2	A	96	75-125	u
Calcium	97437321098	49610	R	20000	69020	R	97	75-125	u
Chromium	97437321098	1079	A	2000	2880	A	90	75-125	u
Cobalt	97437321098	195.5	A	500.0	639.4	A	89	75-125	u
Copper	97437321098	464.0	A	250.0	694.4	A	92	75-125	u
Lead	97437321098	4889	A	2000	6818	A	96	75-125	u
Manganese	97437321098	3825	A	500.0	4335	A	102	75-125	: u
Molybdenum	97437321098	5.183	A	400.0	395.0	A	97	75-125	u
Nickel	97437321098	1412	A	500.0	1866	A	91	75-125	u
Potassium	97437321098	13640	R	10000	22720	R	91	75-125	u
Selenium	97437321098	ND	A	1000	919.7	A	92	75-125	u
Silver	97437321098	ND	A	200.0	187.2	A	94	75-125	u
Sodium	97437321098	1501	R	20000	18760	R	86	75-125	u
Thallium	97437321098	ND	A	1000	833.1	A	83	75-125	u
Vanadium	97437321098	738.4	A	500.0	1196	A	92	75-125	u
Zinc	97437321098	3139	A	500.0	3636	A	99	75-125	: u
Boron	97437321098	54.17	A	1000	993.1	A	94	75-125	u
Tin	97437321098	74.45	A	1000	990.0	A	92	75-125	u
Titanium	97437321098	8834	A	1000	9796	A	96	75-125	: u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2881617	2796421	-2.96

:=recovery not meaningful u=use y=RL raised

97437321102

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 97437321001
Units : ug/L

Reviewer : ---

Date : 30-OCT-2007 16:41
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	103007ar	97437321002	CRIM08	30-OCT-2007 16:44	S7555
L2	103007ar	97437321003	CS100	30-OCT-2007 16:48	S7382
L3	103007ar	97437321004	CS1K	30-OCT-2007 16:51	S7381
L4	103007ar	97437321005	CS10K	30-OCT-2007 16:53	S7383
L5	103007ar	97437321006	CS100K	30-OCT-2007 16:56	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	22.705	18.246	18.279	18.647		LOR0	0.00000	0.05364		19.469	1.000	0.995	
Arsenic	A	5.9746	9.7593	10.054	10.339		LOR0	0.00000	0.09674		9.0319	1.000	0.995	
Barium	A	101.13	99.013	97.925	96.446		LOR0	0.00000	0.01037		98.630	1.000	0.995	
Beryllium	A	4389.0	4525.3	4539.1			LOR0	0.00000	2.20E-4		4484.5	1.000	0.995	
Boron	A	199.81		200.80	207.00		LOR0	0.00000	0.00483		202.54	1.000	0.995	
Cadmium	A	159.71	158.52	161.46	157.86		LOR0	0.00000	0.00633		159.39	1.000	0.995	
Chromium	A	179.90	172.40	171.84	171.79		LOR0	0.00000	0.00582		173.98	1.000	0.995	
Cobalt	A	59.244	57.185	57.499	57.541		LOR0	0.00000	0.01738		57.867	1.000	0.995	
Copper	A	172.51	197.17	198.37	200.27		LOR0	0.00000	0.00499		192.08	1.000	0.995	
Lead	A	108.27	54.782	54.189	53.553		LOR0	0.00000	0.01867		67.700	1.000	0.995	
Manganese	A	455.62	509.79	511.80	488.10		LOR0	0.00000	0.00205		491.33	1.000	0.995	
Molybdenum	A	43.070	44.200	42.286	41.393		LOR0	0.00000	0.02415		42.737	1.000	0.995	
Nickel	A	78.473	84.006	84.989	84.936		LOR0	0.00000	0.01177		83.101	1.000	0.995	
Selenium	A	12.066	13.140	12.716	13.307		LOR0	0.00000	0.07518		12.807	1.000	0.995	
Silver	A	432.09	496.26	503.98	507.22		LOR0	0.00000	0.00197		484.88	1.000	0.995	
Thallium	A	8.7701	10.729	10.538	10.448		LOR0	0.00000	0.09570		10.121	1.000	0.995	
Tin	A	17.575	17.754	18.147	19.105		LOR0	0.00000	0.05237		18.145	1.000	0.995	
Titanium	A	716.31	759.54	757.01	737.92		LOR0	0.00000	0.00135		742.69	1.000	0.995	
Vanadium	A	187.87	202.59	203.45	207.96		LOR0	0.00000	0.00481		200.47	1.000	0.995	
Zinc	A	119.52	92.877	84.093	82.920		LOR0	0.00000	0.01206		94.852	1.000	0.995	
Aluminum	R	1.0435		0.9417	0.7716	0.7462	LOR0	0.00000	1.33957		0.8758	1.000	0.995	
Calcium	R	7.7714		8.4034	7.9677	7.6110	LOR0	0.00000	0.13133		7.9384	1.000	0.995	
Iron	R	2.6863		2.5024	2.3998	2.3042	LOR0	0.00000	0.43380		2.4732	1.000	0.995	
Magnesium	R	1.2188		1.2739	1.1997	1.1359	LOR0	0.00000	0.87985		1.2071	1.000	0.995	
Potassium	R	2.1888		2.1345	2.1260	2.1291	LOR0	0.00000	0.46968		2.1446	1.000	0.995	
Sodium	R	290.69		317.18	310.64	314.91	LOR0	0.00000	0.00318		308.36	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	22	100.0	-2	1000	-2	10000	0		
Arsenic	A	5.000	-42	100.0	-6	1000	-3	10000	0		
Barium	A	5.000	5	100.0	3	1000	2	10000	0		
Beryllium	A	2.000	-3	100.0	0	1000	0				
Boron	A	100.0	-3			1000	-3	10000	0		
Cadmium	A	5.000	1	100.0	0	1000	2	10000	0		
Chromium	A	5.000	5	100.0	0	1000	0	10000	0		
Cobalt	A	5.000	3	100.0	-1	1000	0	10000	0		
Copper	A	5.000	-14	100.0	-2	1000	-1	10000	0		
Lead	A	3.000	102	100.0	2	1000	1	10000	0		
Manganese	A	5.000	-7	100.0	4	1000	5	10000	0		
Molybdenum	A	5.000	4	100.0	7	1000	2	10000	0		
Nickel	A	5.000	-8	100.0	-1	1000	0	10000	0		
Selenium	A	5.000	-9	100.0	-1	1000	-4	10000	0		
Silver	A	5.000	-15	100.0	-2	1000	-1	2000	0		
Thallium	A	5.000	-16	100.0	3	1000	1	10000	0		
Tin	A	40.00	-8	100.0	-7	1000	-5	10000	0		
Titanium	A	10.00	-3	100.0	3	1000	3	10000	0		
Vanadium	A	5.000	-10	100.0	-3	1000	-2	10000	0		
Zinc	A	20.00	44	100.0	12	1000	1	10000	0		
Aluminum	R	100.0	40			1000	26	10000	3	100000	0
Calcium	R	200.0	2			1000	10	10000	5	100000	0
Iron	R	100.0	17			1000	9	10000	4	100000	0
Magnesium	R	200.0	7			1000	12	10000	6	100000	0
Potassium	R	500.0	3			1000	0	10000	0	100000	0
Sodium	R	500.0	-8			1000	1	10000	-1	100000	0

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/30/2007 4:41:02 PM
Data Type: Reprocessed on 10/30/2007 5:22:10 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1476.6	77.32	5.24%	[0.00]	ug/L
Al 308.215 R	80.4	5.73	7.13%	[0.00]	ug/L
As 188.979	28.8	9.98	34.59%	[0.00]	ug/L
B 249.677	-583.9	102.00	17.47%	[0.00]	ug/L
Ba 233.527	-79.2	7.18	9.07%	[0.00]	ug/L
Be 313.107	826.0	101.65	12.31%	[0.00]	ug/L
Ca 315.887 R	533.2	9.05	1.70%	[0.00]	ug/L
Cd 214.440	-56.4	13.32	23.62%	[0.00]	ug/L
Co 228.616	-60.9	15.60	25.63%	[0.00]	ug/L
Cr 267.716	-136.4	61.01	44.73%	[0.00]	ug/L
Cu 324.752	2881.5	28.01	0.97%	[0.00]	ug/L
Fe 238.204 R	-284.2	0.89	0.31%	[0.00]	ug/L
K 766.490 R	-346.6	185.21	53.44%	[0.00]	ug/L
Mg 279.077 R	-37.2	5.63	15.15%	[0.00]	ug/L
Mn 257.610	403.3	12.11	3.00%	[0.00]	ug/L
Mo 202.031	-40.2	11.92	29.63%	[0.00]	ug/L
Na 589.592 R	65884.5	4328.10	6.57%	[0.00]	ug/L
Ni 231.604	829.8	7.36	0.89%	[0.00]	ug/L
Pb 220.353	-184.3	49.82	27.04%	[0.00]	ug/L
Sb 206.836	-32.0	39.32	122.95%	[0.00]	ug/L
Se 196.026	-70.2	47.77	68.04%	[0.00]	ug/L
Ti 334.940 R	368.8	59.69	16.19%	[0.00]	ug/L
Tl 190.801	-44.6	17.58	39.42%	[0.00]	ug/L
V 292.402	-1494.6	227.82	15.24%	[0.00]	ug/L
Zn 206.200	452.5	12.68	2.80%	[0.00]	ug/L
Sn 189.927	6.2	12.00	194.23%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/30/2007 4:44:57 PM
Data Type: Reprocessed on 10/30/2007 5:22:12 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	150.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2881617.3	44101.42	1.53%	100.0	%
Y	242598.6	6740.63	2.78%	100.0	%
Ag 328.068†	2160.4	307.70	14.24%	[5.0]	ug/L
Al 308.215 Rt	104.3	7.39	7.08%	[100]	ug/L
As 188.979†	29.9	2.78	9.31%	[5.0]	ug/L
B 249.677†	19981.2	754.98	3.78%	[100]	ug/L
Ba 233.527†	505.7	4.97	0.98%	[5.0]	ug/L
Be 313.107†	8778.1	168.86	1.92%	[2.0]	ug/L
Ca 315.887 Rt	1554.3	74.45	4.79%	[200]	ug/L
Cd 214.440†	798.5	12.66	1.59%	[5.0]	ug/L
Co 228.616†	296.2	9.06	3.06%	[5.0]	ug/L
Cr 267.716†	899.5	52.67	5.86%	[5.0]	ug/L
Cu 324.752†	862.6	123.50	14.32%	[5.0]	ug/L
Fe 238.204 Rt	268.6	4.44	1.65%	[100]	ug/L
K 766.490 Rt	1094.4	279.33	25.52%	[500]	ug/L
Mg 279.077 Rt	243.8	5.22	2.14%	[200]	ug/L
Mn 257.610†	2278.1	45.22	1.99%	[5.0]	ug/L
Mo 202.031†	215.4	9.18	4.26%	[5.0]	ug/L
Na 589.592 Rt	145347.1	7344.94	5.05%	[500]	ug/L
Ni 231.604†	392.4	15.71	4.00%	[5.0]	ug/L
Pb 220.353†	324.8	89.24	27.47%	[3.0]	ug/L
Sb 206.836†	113.5	21.27	18.73%	[5.0]	ug/L
Se 196.026†	60.3	19.49	32.30%	[5.0]	ug/L
Ti 334.940 Rt	7163.1	234.66	3.28%	[10]	ug/L
Tl 190.801†	43.9	17.48	39.87%	[5.0]	ug/L
V 292.402†	939.4	60.87	6.48%	[5.0]	ug/L
Zn 206.200†	2390.4	46.28	1.94%	[20]	ug/L
Sn 189.927†	703.0	16.33	2.32%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/30/2007 4:48:53 PM
Data Type: Reprocessed on 10/30/2007 5:22:13 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	151.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2910036.0	18880.38	0.65%	101.0	%
Y	244243.8	1382.37	0.57%	100.7	%
Ag 328.068†	49625.8	69.31	0.14%	[100]	ug/L
As 188.979†	975.9	28.88	2.96%	[100]	ug/L
Ba 233.527†	9901.3	36.91	0.37%	[100]	ug/L
Be 313.107†	452525.5	925.30	0.20%	[100]	ug/L
Cd 214.440†	15851.9	68.54	0.43%	[100]	ug/L
Co 228.616†	5718.5	28.03	0.49%	[100]	ug/L
Cr 267.716†	17240.3	73.83	0.43%	[100]	ug/L
Cu 324.752†	19716.8	56.32	0.29%	[100]	ug/L
Mn 257.610†	50978.7	402.95	0.79%	[100]	ug/L
Mo 202.031†	4420.0	31.60	0.71%	[100]	ug/L
Ni 231.604†	8400.6	42.94	0.51%	[100]	ug/L
Pb 220.353†	5478.2	33.42	0.61%	[100]	ug/L
Sb 206.836†	1824.6	17.05	0.93%	[100]	ug/L
Se 196.026†	1314.0	36.84	2.80%	[100]	ug/L
Ti 334.940 R†	75953.5	190.11	0.25%	[100]	ug/L
Tl 190.801†	1072.9	15.74	1.47%	[100]	ug/L
V 292.402†	20258.8	100.91	0.50%	[100]	ug/L
Zn 206.200†	9287.7	46.09	0.50%	[100]	ug/L
Sn 189.927†	1775.4	11.07	0.62%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/30/2007 4:51:52 PM
Data Type: Reprocessed on 10/30/2007 5:22:14 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	151.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2925605.1	14773.96	0.50%	101.5	%
Y	244333.9	642.35	0.26%	100.7	%
Ag 328.068†	503976.7	1997.44	0.40%	[1000]	ug/L
Al 308.215 R†	941.7	22.20	2.36%	[1000]	ug/L
As 188.979†	10054.2	214.66	2.14%	[1000]	ug/L
B 249.677†	200801.8	155.12	0.08%	[1000]	ug/L
Ba 233.527†	97925.5	102.97	0.11%	[1000]	ug/L
Be 313.107†	4539114.3	5589.44	0.12%	[1000]	ug/L
Ca 315.887 R†	8403.4	87.69	1.04%	[1000]	ug/L
Cd 214.440†	161460.0	77.12	0.05%	[1000]	ug/L
Co 228.616†	57498.5	581.35	1.01%	[1000]	ug/L
Cr 267.716†	171842.4	151.62	0.09%	[1000]	ug/L
Cu 324.752†	198369.9	519.59	0.26%	[1000]	ug/L
Fe 238.204 R†	2502.4	20.14	0.80%	[1000]	ug/L
K 766.490 R†	2134.5	9.33	0.44%	[1000]	ug/L
Mg 279.077 R†	1273.9	30.91	2.43%	[1000]	ug/L
Mn 257.610†	511798.7	436.77	0.09%	[1000]	ug/L
Mo 202.031†	42286.1	515.31	1.22%	[1000]	ug/L
Na 589.592 R†	317181.9	5000.56	1.58%	[1000]	ug/L
Ni 231.604†	84988.6	66.21	0.08%	[1000]	ug/L
Pb 220.353†	54189.4	665.13	1.23%	[1000]	ug/L
Sb 206.836†	18279.4	141.39	0.77%	[1000]	ug/L
Se 196.026†	12715.9	381.01	3.00%	[1000]	ug/L
Ti 334.940 R†	757013.9	1233.28	0.16%	[1000]	ug/L
Tl 190.801†	10538.0	63.60	0.60%	[1000]	ug/L
V 292.402†	203454.9	286.09	0.14%	[1000]	ug/L
Zn 206.200†	84093.0	300.13	0.36%	[1000]	ug/L
Sn 189.927†	18146.8	249.52	1.38%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/30/2007 4:53:57 PM
Data Type: Reprocessed on 10/30/2007 5:22:16 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	151.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2811811.5	24908.26	0.89%	97.58	%
Y	241198.9	2752.32	1.14%	99.42	%
Ag 328.068†	1014439.3	8594.30	0.85%	[2000]	ug/L
Al 308.215 Rt	7715.6	54.60	0.71%	[10000]	ug/L
As 188.979†	103393.6	1881.47	1.82%	[10000]	ug/L
B 249.677†	2070043.7	3316.55	0.16%	[10000]	ug/L
Ba 233.527†	964458.7	506.69	0.05%	[10000]	ug/L
Ca 315.887 Rt	79676.8	363.99	0.46%	[10000]	ug/L
Cd 214.440†	1578615.1	13601.75	0.86%	[10000]	ug/L
Co 228.616†	575408.8	391.18	0.07%	[10000]	ug/L
Cr 267.716†	1717902.7	1209.58	0.07%	[10000]	ug/L
Cu 324.752†	2002688.6	5456.32	0.27%	[10000]	ug/L
Fe 238.204 Rt	23998.0	48.94	0.20%	[10000]	ug/L
K 766.490 Rt	21259.9	142.13	0.67%	[10000]	ug/L
Mg 279.077 Rt	11997.1	102.87	0.86%	[10000]	ug/L
Mn 257.610†	4880951.0	14612.64	0.30%	[10000]	ug/L
Mo 202.031†	413931.7	10710.11	2.59%	[10000]	ug/L
Na 589.592 Rt	3106420.3	5043.06	0.16%	[10000]	ug/L
Ni 231.604†	849355.8	220.51	0.03%	[10000]	ug/L
Pb 220.353†	535531.2	10904.40	2.04%	[10000]	ug/L
Sb 206.836†	186465.8	3051.79	1.64%	[10000]	ug/L
Se 196.026†	133074.7	1781.55	1.34%	[10000]	ug/L
Ti 334.940 Rt	7379154.0	5630.64	0.08%	[10000]	ug/L
Tl 190.801†	104482.1	1494.16	1.43%	[10000]	ug/L
V 292.402†	2079625.1	206.66	0.01%	[10000]	ug/L
Zn 206.200†	829197.1	153.42	0.02%	[10000]	ug/L
Sn 189.927†	191050.2	3520.37	1.84%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/30/2007 4:56:46 PM
Data Type: Reprocessed on 10/30/2007 5:22:17 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2682194.1	30853.76	1.15%	93.08	%
Y	226656.8	22959.81	10.13%	93.43	%
Al 308.215 Rt	74623.7	878.34	1.18%	[100000]	ug/L
Ca 315.887 Rt	761102.1	24915.16	3.27%	[100000]	ug/L
Fe 238.204 Rt	230421.8	8021.44	3.48%	[100000]	ug/L
K 766.490 Rt	212912.5	2616.27	1.23%	[100000]	ug/L
Mg 279.077 Rt	113591.7	4592.99	4.04%	[100000]	ug/L
Na 589.592 Rt	31491419.3	4278650.52	13.59%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	506.6	0.00000	0.999996	
Al 308.215 R	4	Lin Thru 0	0.0	0.7465	0.00000	0.999991	
As 188.979	4	Lin Thru 0	0.0	10.34	0.00000	0.999996	
B 249.677	3	Lin Thru 0	0.0	206.9	0.00000	0.999996	
Ba 233.527	4	Lin Thru 0	0.0	96.46	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	4539	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	7.615	0.00000	0.999989	
Cd 214.440	4	Lin Thru 0	0.0	157.9	0.00000	0.999997	
Co 228.616	4	Lin Thru 0	0.0	57.54	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	171.8	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	200.2	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	2.305	0.00000	0.999991	
K 766.490 R	4	Lin Thru 0	0.0	2.129	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	1.137	0.00000	0.999984	
Mn 257.610	4	Lin Thru 0	0.0	488.3	0.00000	0.999988	
Mo 202.031	4	Lin Thru 0	0.0	41.40	0.00000	0.999997	
Na 589.592 R	4	Lin Thru 0	0.0	314.9	0.00000	0.999999	
Ni 231.604	4	Lin Thru 0	0.0	84.94	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	53.56	0.00000	0.999999	
Sb 206.836	4	Lin Thru 0	0.0	18.64	0.00000	0.999998	
Se 196.026	4	Lin Thru 0	0.0	13.30	0.00000	0.999990	
Ti 334.940 R	4	Lin Thru 0	0.0	738.1	0.00000	0.999997	
Tl 190.801	4	Lin Thru 0	0.0	10.45	0.00000	1.000000	
V 292.402	4	Lin Thru 0	0.0	207.9	0.00000	0.999998	
Zn 206.200	4	Lin Thru 0	0.0	82.93	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	19.10	0.00000	0.999987	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321007 File : 103007ar Time : 30-OCT-2007 16:59
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	19.469	18.045	5000	4840	ug/L	-3	10	
Arsenic	A	9.0319	10.290	5000	4978	ug/L	0	10	
Barium	A	98.630	96.481	5000	5001	ug/L	0	10	
Beryllium	A	4484.5	4572.4	500.0	503.7	ug/L	1	10	
Boron	A	202.54	209.67	5000	5066	ug/L	1	10	
Cadmium	A	159.39	158.97	5000	5034	ug/L	1	10	
Chromium	A	173.98	166.66	5000	4851	ug/L	-3	10	
Cobalt	A	57.867	54.817	5000	4753	ug/L	-5	10	
Copper	A	192.08	191.14	5000	4772	ug/L	-5	10	
Lead	A	67.700	51.603	5000	4817	ug/L	-4	10	
Manganese	A	491.33	483.41	5000	4950	ug/L	-1	10	
Molybdenum	A	42.737	40.137	5000	4847	ug/L	-3	10	
Nickel	A	83.101	81.454	5000	4795	ug/L	-4	10	
Selenium	A	12.807	12.936	5000	4863	ug/L	-3	10	
Silver	A	484.88	487.57	1000	962.5	ug/L	-4	10	
Thallium	A	10.121	9.8857	5000	4730	ug/L	-5	10	
Tin	A	18.145	18.193	5000	4764	ug/L	-5	10	
Titanium	A	742.69	714.54	5000	4840	ug/L	-3	10	
Vanadium	A	200.47	202.21	5000	4863	ug/L	-3	10	
Zinc	A	94.852	81.455	5000	4911	ug/L	-2	10	
Aluminum	R	0.8758	0.7157	20000	19170	ug/L	-4	10	
Calcium	R	7.9384	7.6646	20000	20130	ug/L	1	10	
Iron	R	2.4732	2.3198	20000	20130	ug/L	1	10	
Magnesium	R	1.2071	1.1784	20000	20740	ug/L	4	10	
Potassium	R	2.1446	2.0372	20000	19140	ug/L	-4	10	
Sodium	R	308.36	293.03	20000	18610	ug/L	-7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2840158	-1.44

97437321007

00414

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321008 File : 103007ar Time : 30-OCT-2007 17:06
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	ND	5.000	0.1113	ug/L	
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	[6.219]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.2368]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[2.083]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[1.808]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[58.77]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2922222	1.41

!=warning ib=instrument blank

97437321008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321009 File : 103007ar Time : 30-OCT-2007 17:13
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[-9.073]	5.000	ug/L	
Arsenic	A	[-3.012]	5.000	ug/L	
Barium	A	[-0.8849]	5.000	ug/L	
Beryllium	A	[0.2329]	2.000	ug/L	
Boron	A	[-14.04]	100.0	ug/L	
Cadmium	A	[2.445]	5.000	ug/L	
Cobalt	A	[-0.4003]	5.000	ug/L	
Lead	A	[2.856]	3.000	ug/L	
Molybdenum	A	[1.349]	5.000	ug/L	
Selenium	A	[0.5118]	5.000	ug/L	
Silver	A	[1.357]	5.000	ug/L	
Thallium	A	[-4.874]	5.000	ug/L	
Tin	A	[-3.379]	40.00	ug/L	
Zinc	A	[11.30]	20.00	ug/L	
Potassium	R	[154.3]	500.0	ug/L	
Sodium	R	[56.87]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19900	ug/L	99
Copper	A	20000	21400	ug/L	107
Manganese	A	20000	19520	ug/L	98
Nickel	A	20000	18910	ug/L	95
Titanium	A	20000	20370	ug/L	102
Vanadium	A	20000	20690	ug/L	103
Aluminum	R	500000	511100	ug/L	102
Calcium	R	500000	529300	ug/L	106
Iron	R	200000	200100	ug/L	100
Magnesium	R	500000	553300	ug/L	111

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2501670	-13.19

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321010 File : 103007ar Time : 30-OCT-2007 17:24
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	496.8	ug/L	-1	20	
Arsenic	A	500.0	514.7	ug/L	3	20	
Barium	A	500.0	511.6	ug/L	2	20	
Beryllium	A	500.0	524.2	ug/L	5	20	
Cadmium	A	1000	947.5	ug/L	-5	20	
Chromium	A	500.0	487.7	ug/L	-2	20	
Cobalt	A	500.0	452.8	ug/L	-9	20	
Copper	A	500.0	527.7	ug/L	6	20	
Lead	A	1000	856.5	ug/L	-14	20	
Manganese	A	500.0	498.6	ug/L	0	20	
Molybdenum	A	500.0	527.2	ug/L	5	20	
Nickel	A	1000	919.7	ug/L	-8	20	
Selenium	A	500.0	471.9	ug/L	-6	20	
Silver	A	1000	1055	ug/L	5	20	
Thallium	A	500.0	431.4	ug/L	-14	20	
Titanium	A	20000	19650	ug/L	-2		
Vanadium	A	500.0	516.5	ug/L	3	20	
Zinc	A	1000	973.0	ug/L	-3	20	
Aluminum	R	500000	486900	ug/L	-3		
Calcium	R	500000	483200	ug/L	-3		
Iron	R	200000	184800	ug/L	-8		
Magnesium	R	500000	502900	ug/L	1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2492252	-13.51

97437321010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321020 File : 103007ar Time : 30-OCT-2007 17:53
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.469	18.022	5000	4834	ug/L	-3	10	
Arsenic	A	9.0319	10.193	5000	4931	ug/L	-1	10	
Barium	A	98.630	95.352	5000	4943	ug/L	-1	10	
Beryllium	A	4484.5	4513.7	500.0	497.2	ug/L	-1	10	
Boron	A	202.54	205.97	5000	4976	ug/L	0	10	
Cadmium	A	159.39	150.70	5000	4772	ug/L	-5	10	
Chromium	A	173.98	164.72	5000	4794	ug/L	-4	10	
Cobalt	A	57.867	54.905	5000	4760	ug/L	-5	10	
Copper	A	192.08	192.30	5000	4801	ug/L	-4	10	
Lead	A	67.700	50.162	5000	4683	ug/L	-6	10	
Manganese	A	491.33	470.72	5000	4820	ug/L	-4	10	
Molybdenum	A	42.737	40.157	5000	4850	ug/L	-3	10	
Nickel	A	83.101	81.240	5000	4782	ug/L	-4	10	
Selenium	A	12.807	12.885	5000	4843	ug/L	-3	10	
Silver	A	484.88	487.21	1000	961.8	ug/L	-4	10	
Thallium	A	10.121	10.093	5000	4829	ug/L	-3	10	
Tin	A	18.145	17.979	5000	4708	ug/L	-6	10	
Titanium	A	742.69	709.77	5000	4808	ug/L	-4	10	
Vanadium	A	200.47	200.44	5000	4820	ug/L	-4	10	
Zinc	A	94.852	79.482	5000	4792	ug/L	-4	10	
Aluminum	R	0.8758	0.7178	20000	19230	ug/L	-4	10	
Calcium	R	7.9384	7.5493	20000	19830	ug/L	-1	10	
Iron	R	2.4732	2.2952	20000	19910	ug/L	0	10	
Magnesium	R	1.2071	1.1559	20000	20340	ug/L	2	10	
Potassium	R	2.1446	2.0615	20000	19370	ug/L	-3	10	
Sodium	R	308.36	294.77	20000	18720	ug/L	-6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2790213	-3.17

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321022 File : 103007ar Time : 30-OCT-2007 18:00
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	ND	5.000	0.1113	ug/L	
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	[3.954]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.1751]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[0.7580]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.360]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2886789	0.18

!=warning ib=instrument blank

97437321022

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321034 File : 103007ar Time : 30-OCT-2007 18:39
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.469	18.596	5000	4987	ug/L	0	10	
Arsenic	A	9.0319	10.609	5000	5132	ug/L	3	10	
Barium	A	98.630	98.872	5000	5125	ug/L	2	10	
Beryllium	A	4484.5	4714.3	500.0	519.3	ug/L	4	10	
Boron	A	202.54	214.31	5000	5178	ug/L	4	10	
Cadmium	A	159.39	163.76	5000	5186	ug/L	4	10	
Chromium	A	173.98	170.77	5000	4970	ug/L	-1	10	
Cobalt	A	57.867	56.824	5000	4927	ug/L	-1	10	
Copper	A	192.08	196.33	5000	4902	ug/L	-2	10	
Lead	A	67.700	53.950	5000	5036	ug/L	1	10	
Manganese	A	491.33	500.62	5000	5126	ug/L	3	10	
Molybdenum	A	42.737	42.028	5000	5076	ug/L	2	10	
Nickel	A	83.101	84.442	5000	4971	ug/L	-1	10	
Selenium	A	12.807	13.390	5000	5033	ug/L	1	10	
Silver	A	484.88	507.99	1000	1003	ug/L	0	10	
Thallium	A	10.121	10.209	5000	4885	ug/L	-2	10	
Tin	A	18.145	18.910	5000	4951	ug/L	-1	10	
Titanium	A	742.69	740.99	5000	5020	ug/L	0	10	
Vanadium	A	200.47	206.94	5000	4977	ug/L	0	10	
Zinc	A	94.852	83.539	5000	5037	ug/L	1	10	
Aluminum	R	0.8758	0.7588	20000	20330	ug/L	2	10	
Calcium	R	7.9384	8.1328	20000	21360	ug/L	7	10	
Iron	R	2.4732	2.5212	20000	21870	ug/L	9	10	
Magnesium	R	1.2071	1.2470	20000	21940	ug/L	10	10	
Potassium	R	2.1446	2.1573	20000	20270	ug/L	1	10	
Sodium	R	308.36	309.24	20000	19640	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2805562	-2.64

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321037 File : 103007ar Time : 30-OCT-2007 18:49
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.1319]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.04746]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.5053]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.3512]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.5256]	5.000	0.3034	ug/L	!ib
Copper	A	[0.8698]	5.000	0.8535	ug/L	!ib
Lead	A	[1.756]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[1.151]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[68.24]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[54.53]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2892948	0.39

!=warning ib=instrument blank

97437321037

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321047 File : 103007ar Time : 30-OCT-2007 19:23
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	548.5	ug/L	10	20	
Arsenic	A	500.0	547.3	ug/L	9	20	
Barium	A	500.0	548.0	ug/L	10	20	
Beryllium	A	500.0	565.0	ug/L	13	20	
Cadmium	A	1000	1050	ug/L	5	20	
Chromium	A	500.0	523.7	ug/L	5	20	
Cobalt	A	500.0	493.5	ug/L	-1	20	
Copper	A	500.0	558.3	ug/L	12	20	
Lead	A	1000	957.0	ug/L	-4	20	
Manganese	A	500.0	541.0	ug/L	8	20	
Molybdenum	A	500.0	567.2	ug/L	13	20	
Nickel	A	1000	995.6	ug/L	0	20	
Selenium	A	500.0	567.8	ug/L	14	20	
Silver	A	1000	1131	ug/L	13	20	
Thallium	A	500.0	463.2	ug/L	-7	20	
Titanium	A	20000	20670	ug/L	3		
Vanadium	A	500.0	552.5	ug/L	11	20	
Zinc	A	1000	1063	ug/L	6	20	
Aluminum	R	500000	519100	ug/L	4		
Calcium	R	500000	524400	ug/L	5		
Iron	R	200000	206100	ug/L	3		
Magnesium	R	500000	545100	ug/L	9		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2493506	-13.47

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321049 File : 103007ar Time : 30-OCT-2007 19:29
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.469	18.464	5000	4952	ug/L	-1	10	
Arsenic	A	9.0319	10.442	5000	5051	ug/L	1	10	
Barium	A	98.630	98.061	5000	5083	ug/L	2	10	
Beryllium	A	4484.5	4632.7	500.0	510.3	ug/L	2	10	
Boron	A	202.54	210.99	5000	5098	ug/L	2	10	
Cadmium	A	159.39	158.43	5000	5017	ug/L	0	10	
Chromium	A	173.98	168.94	5000	4917	ug/L	-2	10	
Cobalt	A	57.867	56.280	5000	4880	ug/L	-2	10	
Copper	A	192.08	195.27	5000	4876	ug/L	-2	10	
Lead	A	67.700	51.912	5000	4846	ug/L	-3	10	
Manganese	A	491.33	489.14	5000	5008	ug/L	0	10	
Molybdenum	A	42.737	41.872	5000	5057	ug/L	1	10	
Nickel	A	83.101	83.354	5000	4907	ug/L	-2	10	
Selenium	A	12.807	13.119	5000	4931	ug/L	-1	10	
Silver	A	484.88	498.67	1000	984.5	ug/L	-2	10	
Thallium	A	10.121	10.184	5000	4873	ug/L	-3	10	
Tin	A	18.145	18.555	5000	4858	ug/L	-3	10	
Titanium	A	742.69	729.02	5000	4938	ug/L	-1	10	
Vanadium	A	200.47	205.25	5000	4936	ug/L	-1	10	
Zinc	A	94.852	81.629	5000	4921	ug/L	-2	10	
Aluminum	R	0.8758	0.7473	20000	20020	ug/L	0	10	
Calcium	R	7.9384	7.9158	20000	20790	ug/L	4	10	
Iron	R	2.4732	2.4499	20000	21260	ug/L	6	10	
Magnesium	R	1.2071	1.2194	20000	21460	ug/L	7	10	
Potassium	R	2.1446	2.1042	20000	19770	ug/L	-1	10	
Sodium	R	308.36	305.14	20000	19380	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2714832	-5.79

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321051 File : 103007ar Time : 30-OCT-2007 19:36
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	ND	5.000	0.1113	ug/L	
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.3324]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	[0.4064]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[2.271]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[3.175]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[49.78]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2914111	1.13

!=warning ib=instrument blank

97437321051

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321063 File : 103007ar Time : 30-OCT-2007 20:17
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.469	19.040	5000	5107	ug/L	2	10	
Arsenic	A	9.0319	10.891	5000	5268	ug/L	5	10	
Barium	A	98.630	100.34	5000	5201	ug/L	4	10	
Beryllium	A	4484.5	4767.6	500.0	525.2	ug/L	5	10	
Boron	A	202.54	217.38	5000	5252	ug/L	5	10	
Cadmium	A	159.39	164.72	5000	5216	ug/L	4	10	
Chromium	A	173.98	173.48	5000	5049	ug/L	1	10	
Cobalt	A	57.867	58.256	5000	5051	ug/L	1	10	
Copper	A	192.08	199.14	5000	4972	ug/L	-1	10	
Lead	A	67.700	54.991	5000	5134	ug/L	3	10	
Manganese	A	491.33	501.92	5000	5139	ug/L	3	10	
Molybdenum	A	42.737	43.206	5000	5218	ug/L	4	10	
Nickel	A	83.101	86.480	5000	5091	ug/L	2	10	
Selenium	A	12.807	13.754	5000	5170	ug/L	3	10	
Silver	A	484.88	515.38	1000	1017	ug/L	2	10	
Thallium	A	10.121	10.422	5000	4987	ug/L	0	10	
Tin	A	18.145	19.334	5000	5062	ug/L	1	10	
Titanium	A	742.69	743.54	5000	5037	ug/L	1	10	
Vanadium	A	200.47	210.31	5000	5057	ug/L	1	10	
Zinc	A	94.852	84.912	5000	5119	ug/L	2	10	
Aluminum	R	0.8758	0.7400	20000	19830	ug/L	-1	10	
Calcium	R	7.9384	7.9100	20000	20780	ug/L	4	10	
Iron	R	2.4732	2.4460	20000	21220	ug/L	6	10	
Magnesium	R	1.2071	1.2166	20000	21410	ug/L	7	10	
Potassium	R	2.1446	2.1045	20000	19770	ug/L	-1	10	
Sodium	R	308.36	300.06	20000	19060	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2776735	-3.64

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321065 File : 103007ar Time : 30-OCT-2007 20:23
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[2.146]	5.000	1.320	ug/L	!ib
Barium	A	[0.2791]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.07201]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.6131]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.7920]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.3379]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[1.951]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.532]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.929]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[55.39]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2912990	1.09

!=warning ib=instrument blank

97437321065

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321077 File : 103007ar Time : 30-OCT-2007 21:05
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.469	19.073	5000	5115	ug/L	2	10	
Arsenic	A	9.0319	10.860	5000	5253	ug/L	5	10	
Barium	A	98.630	100.87	5000	5228	ug/L	5	10	
Beryllium	A	4484.5	4822.4	500.0	531.2	ug/L	6	10	
Boron	A	202.54	219.13	5000	5294	ug/L	6	10	
Cadmium	A	159.39	169.49	5000	5367	ug/L	7	10	
Chromium	A	173.98	174.27	5000	5072	ug/L	1	10	
Cobalt	A	57.867	58.090	5000	5037	ug/L	1	10	
Copper	A	192.08	199.13	5000	4972	ug/L	-1	10	
Lead	A	67.700	55.626	5000	5193	ug/L	4	10	
Manganese	A	491.33	514.82	5000	5271	ug/L	5	10	
Molybdenum	A	42.737	43.225	5000	5220	ug/L	4	10	
Nickel	A	83.101	87.400	5000	5145	ug/L	3	10	
Selenium	A	12.807	13.732	5000	5162	ug/L	3	10	
Silver	A	484.88	519.03	1000	1025	ug/L	2	10	
Thallium	A	10.121	10.250	5000	4905	ug/L	-2	10	
Tin	A	18.145	19.381	5000	5075	ug/L	1	10	
Titanium	A	742.69	755.82	5000	5120	ug/L	2	10	
Vanadium	A	200.47	211.11	5000	5077	ug/L	2	10	
Zinc	A	94.852	85.215	5000	5138	ug/L	3	10	
Aluminum	R	0.8758	0.7622	20000	20420	ug/L	2	10	
Calcium	R	7.9384	8.2285	20000	21610	ug/L	8	10	
Iron	R	2.4732	2.5564	20000	22180	ug/L	**11**	10	c+ ***
Magnesium	R	1.2071	1.2626	20000	22220	ug/L	**11**	10	c+ ***
Potassium	R	2.1446	2.1714	20000	20400	ug/L	2	10	
Sodium	R	308.36	303.84	20000	19300	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2783151	-3.42

+=high bias c=CCV

97437321077

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321080 File : 103007ar Time : 30-OCT-2007 21:13
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.4805]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.06438]	2.000	0.04231	ug/L	!ib
Boron	A	[5.987]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.8435]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.7058]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.6664]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[2.734]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[3.105]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.4270]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[96.07]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2886448	0.17

!=warning ib=instrument blank

97437321080

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321089 File : 103007ar Time : 30-OCT-2007 21:44
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	526.2	ug/L	5	20	
Arsenic	A	500.0	528.3	ug/L	6	20	
Barium	A	500.0	525.6	ug/L	5	20	
Beryllium	A	500.0	553.9	ug/L	11	20	
Cadmium	A	1000	1048	ug/L	5	20	
Chromium	A	500.0	513.6	ug/L	3	20	
Cobalt	A	500.0	466.4	ug/L	-7	20	
Copper	A	500.0	545.0	ug/L	9	20	
Lead	A	1000	936.8	ug/L	-6	20	
Manganese	A	500.0	538.1	ug/L	8	20	
Molybdenum	A	500.0	543.4	ug/L	9	20	
Nickel	A	1000	983.9	ug/L	-2	20	
Selenium	A	500.0	502.2	ug/L	0	20	
Silver	A	1000	1125	ug/L	12	20	
Thallium	A	500.0	409.5	ug/L	-18	20	
Titanium	A	20000	20460	ug/L	2		
Vanadium	A	500.0	543.2	ug/L	9	20	
Zinc	A	1000	1033	ug/L	3	20	
Aluminum	R	500000	512500	ug/L	3		
Calcium	R	500000	512400	ug/L	2		
Iron	R	200000	204100	ug/L	2		
Magnesium	R	500000	530500	ug/L	6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2473541	-14.16

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321091 File : 103007ar Time : 30-OCT-2007 21:51
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.469	18.670	5000	5007	ug/L	0	10	
Arsenic	A	9.0319	10.575	5000	5115	ug/L	2	10	
Barium	A	98.630	98.222	5000	5091	ug/L	2	10	
Beryllium	A	4484.5	4655.6	500.0	512.9	ug/L	3	10	
Boron	A	202.54	212.98	5000	5146	ug/L	3	10	
Cadmium	A	159.39	161.96	5000	5129	ug/L	3	10	
Chromium	A	173.98	169.94	5000	4946	ug/L	-1	10	
Cobalt	A	57.867	56.537	5000	4902	ug/L	-2	10	
Copper	A	192.08	195.35	5000	4878	ug/L	-2	10	
Lead	A	67.700	54.616	5000	5099	ug/L	2	10	
Manganese	A	491.33	495.25	5000	5071	ug/L	1	10	
Molybdenum	A	42.737	41.912	5000	5062	ug/L	1	10	
Nickel	A	83.101	84.360	5000	4966	ug/L	-1	10	
Selenium	A	12.807	13.315	5000	5005	ug/L	0	10	
Silver	A	484.88	518.38	1000	1023	ug/L	2	10	
Thallium	A	10.121	9.8540	5000	4715	ug/L	-6	10	
Tin	A	18.145	18.866	5000	4940	ug/L	-1	10	
Titanium	A	742.69	732.43	5000	4962	ug/L	-1	10	
Vanadium	A	200.47	206.89	5000	4975	ug/L	0	10	
Zinc	A	94.852	82.013	5000	4945	ug/L	-1	10	
Aluminum	R	0.8758	0.7578	20000	20300	ug/L	2	10	
Calcium	R	7.9384	8.0086	20000	21030	ug/L	5	10	
Iron	R	2.4732	2.4635	20000	21370	ug/L	7	10	
Magnesium	R	1.2071	1.2231	20000	21520	ug/L	8	10	
Potassium	R	2.1446	2.1462	20000	20160	ug/L	1	10	
Sodium	R	308.36	301.87	20000	19170	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2732525	-5.17

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321093 File : 103007ar Time : 30-OCT-2007 21:57
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.7487]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1212]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[1.035]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.9802]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.9260]	5.000	0.3034	ug/L	!ib
Copper	A	[0.9738]	5.000	0.8535	ug/L	!ib
Lead	A	[2.916]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[3.630]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.9271]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.445]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.343]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	101.3	100.0	6.086	ug/L	ib ***
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2859453	-0.77

!=warning ib=instrument blank

97437321093

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321104 File : 103007ar Time : 30-OCT-2007 22:41
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.469	19.034	5000	5105	ug/L	2	10	
Arsenic	A	9.0319	10.804	5000	5226	ug/L	5	10	
Barium	A	98.630	100.75	5000	5222	ug/L	4	10	
Beryllium	A	4484.5	4816.5	500.0	530.6	ug/L	6	10	
Boron	A	202.54	218.62	5000	5282	ug/L	6	10	
Cadmium	A	159.39	167.57	5000	5306	ug/L	6	10	
Chromium	A	173.98	173.96	5000	5063	ug/L	1	10	
Cobalt	A	57.867	57.579	5000	4992	ug/L	0	10	
Copper	A	192.08	199.92	5000	4992	ug/L	0	10	
Lead	A	67.700	54.936	5000	5128	ug/L	3	10	
Manganese	A	491.33	511.28	5000	5235	ug/L	5	10	
Molybdenum	A	42.737	42.917	5000	5183	ug/L	4	10	
Nickel	A	83.101	85.533	5000	5035	ug/L	1	10	
Selenium	A	12.807	13.563	5000	5098	ug/L	2	10	
Silver	A	484.88	513.99	1000	1015	ug/L	1	10	
Thallium	A	10.121	10.211	5000	4886	ug/L	-2	10	
Tin	A	18.145	19.213	5000	5031	ug/L	1	10	
Titanium	A	742.69	755.95	5000	5121	ug/L	2	10	
Vanadium	A	200.47	210.81	5000	5070	ug/L	1	10	
Zinc	A	94.852	85.107	5000	5131	ug/L	3	10	
Aluminum	R	0.8758	0.7508	20000	20110	ug/L	1	10	
Calcium	R	7.9384	8.0881	20000	21240	ug/L	6	10	
Iron	R	2.4732	2.5034	20000	21720	ug/L	9	10	
Magnesium	R	1.2071	1.2473	20000	21950	ug/L	10	10	
Potassium	R	2.1446	2.1424	20000	20130	ug/L	1	10	
Sodium	R	308.36	299.97	20000	19050	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2796691	-2.95

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321106 File : 103007ar Time : 30-OCT-2007 22:48
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.6542]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.08540]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.9322]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.074]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.7375]	5.000	0.3034	ug/L	!ib
Copper	A	[1.423]	5.000	0.8535	ug/L	!ib
Lead	A	[2.193]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[3.062]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.9371]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[1.965]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[50.57]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2837953	-1.52

!=warning ib=instrument blank

97437321106

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321116 File : 103007ar Time : 30-OCT-2007 23:21
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	537.2	ug/L	7	20	
Arsenic	A	500.0	549.8	ug/L	10	20	
Barium	A	500.0	549.2	ug/L	10	20	
Beryllium	A	500.0	564.2	ug/L	13	20	
Cadmium	A	1000	1080	ug/L	8	20	
Chromium	A	500.0	523.5	ug/L	5	20	
Cobalt	A	500.0	491.4	ug/L	-2	20	
Copper	A	500.0	553.9	ug/L	11	20	
Lead	A	1000	991.5	ug/L	-1	20	
Manganese	A	500.0	551.9	ug/L	10	20	
Molybdenum	A	500.0	571.1	ug/L	14	20	
Nickel	A	1000	1003	ug/L	0	20	
Selenium	A	500.0	560.6	ug/L	12	20	
Silver	A	1000	1162	ug/L	16	20	
Thallium	A	500.0	451.1	ug/L	-10	20	
Titanium	A	20000	20790	ug/L	4		
Vanadium	A	500.0	552.2	ug/L	10	20	
Zinc	A	1000	1050	ug/L	5	20	
Aluminum	R	500000	517400	ug/L	3		
Calcium	R	500000	514100	ug/L	3		
Iron	R	200000	204700	ug/L	2		
Magnesium	R	500000	530800	ug/L	6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2454712	-14.81

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321118 File : 103007ar Time : 30-OCT-2007 23:28
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.469	19.606	5000	5258	ug/L	5	10	
Arsenic	A	9.0319	11.230	5000	5432	ug/L	9	10	
Barium	A	98.630	102.63	5000	5320	ug/L	6	10	
Beryllium	A	4484.5	4908.6	500.0	540.7	ug/L	8	10	
Boron	A	202.54	222.80	5000	5383	ug/L	8	10	
Cadmium	A	159.39	172.32	5000	5457	ug/L	9	10	
Chromium	A	173.98	177.17	5000	5156	ug/L	3	10	
Cobalt	A	57.867	59.590	5000	5167	ug/L	3	10	
Copper	A	192.08	202.81	5000	5064	ug/L	1	10	
Lead	A	67.700	58.297	5000	5442	ug/L	9	10	
Manganese	A	491.33	522.38	5000	5349	ug/L	7	10	
Molybdenum	A	42.737	44.817	5000	5412	ug/L	8	10	
Nickel	A	83.101	89.005	5000	5240	ug/L	5	10	
Selenium	A	12.807	14.219	5000	5345	ug/L	7	10	
Silver	A	484.88	536.26	1000	1059	ug/L	6	10	
Thallium	A	10.121	10.472	5000	5011	ug/L	0	10	
Tin	A	18.145	20.007	5000	5239	ug/L	5	10	
Titanium	A	742.69	769.63	5000	5214	ug/L	4	10	
Vanadium	A	200.47	214.54	5000	5159	ug/L	3	10	
Zinc	A	94.852	86.996	5000	5245	ug/L	5	10	
Aluminum	R	0.8758	0.7697	20000	20620	ug/L	3	10	
Calcium	R	7.9384	8.3091	20000	21820	ug/L	9	10	
Iron	R	2.4732	2.5700	20000	22300	ug/L	**11**	10	c+ ***
Magnesium	R	1.2071	1.2787	20000	22500	ug/L	**13**	10	c+ ***
Potassium	R	2.1446	2.1983	20000	20650	ug/L	3	10	
Sodium	R	308.36	310.97	20000	19750	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2762648	-4.13

+=high bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321122 File : 103007ar Time : 30-OCT-2007 23:39
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.8327]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.09707]	2.000	0.04231	ug/L	!ib
Boron	A	[4.174]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.027]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.615]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.044]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[1.635]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.888]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.7477]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.352]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[55.30]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2845909	-1.24

!=warning ib=instrument blank

97437321122

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321130 File : 103007ar Time : 31-OCT-2007 00:31
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	496.4	ug/L	-1	20	
Arsenic	A	500.0	510.0	ug/L	2	20	
Barium	A	500.0	514.6	ug/L	3	20	
Beryllium	A	500.0	542.4	ug/L	8	20	
Cadmium	A	1000	1023	ug/L	2	20	
Chromium	A	500.0	504.7	ug/L	1	20	
Cobalt	A	500.0	454.8	ug/L	-9	20	
Copper	A	500.0	538.5	ug/L	8	20	
Lead	A	1000	893.6	ug/L	-11	20	
Manganese	A	500.0	530.4	ug/L	6	20	
Molybdenum	A	500.0	533.5	ug/L	7	20	
Nickel	A	1000	928.5	ug/L	-7	20	
Selenium	A	500.0	521.2	ug/L	4	20	
Silver	A	1000	1126	ug/L	13	20	
Thallium	A	500.0	418.6	ug/L	-16	20	
Titanium	A	20000	20020	ug/L	0		
Vanadium	A	500.0	533.9	ug/L	7	20	
Zinc	A	1000	1002	ug/L	0	20	
Aluminum	R	500000	498100	ug/L	0		
Calcium	R	500000	498500	ug/L	0		
Iron	R	200000	195400	ug/L	-2		
Magnesium	R	500000	509300	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2453200	-14.87

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321132 File : 103007ar Time : 31-OCT-2007 00:38
Cal : 97437321001 Caldate : 30-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.469	18.611	5000	4991	ug/L	0	10	
Arsenic	A	9.0319	10.602	5000	5128	ug/L	3	10	
Barium	A	98.630	98.301	5000	5095	ug/L	2	10	
Beryllium	A	4484.5	4685.1	500.0	516.1	ug/L	3	10	
Boron	A	202.54	214.08	5000	5173	ug/L	3	10	
Cadmium	A	159.39	164.53	5000	5210	ug/L	4	10	
Chromium	A	173.98	170.02	5000	4949	ug/L	-1	10	
Cobalt	A	57.867	56.243	5000	4876	ug/L	-2	10	
Copper	A	192.08	195.78	5000	4888	ug/L	-2	10	
Lead	A	67.700	54.659	5000	5103	ug/L	2	10	
Manganese	A	491.33	502.95	5000	5150	ug/L	3	10	
Molybdenum	A	42.737	42.135	5000	5089	ug/L	2	10	
Nickel	A	83.101	83.930	5000	4941	ug/L	-1	10	
Selenium	A	12.807	13.167	5000	4949	ug/L	-1	10	
Silver	A	484.88	515.18	1000	1017	ug/L	2	10	
Thallium	A	10.121	9.8440	5000	4710	ug/L	-6	10	
Tin	A	18.145	18.741	5000	4907	ug/L	-2	10	
Titanium	A	742.69	742.05	5000	5027	ug/L	1	10	
Vanadium	A	200.47	206.73	5000	4971	ug/L	-1	10	
Zinc	A	94.852	81.760	5000	4929	ug/L	-1	10	
Aluminum	R	0.8758	0.7308	20000	19580	ug/L	-2	10	
Calcium	R	7.9384	7.6965	20000	20210	ug/L	1	10	
Iron	R	2.4732	2.3781	20000	20630	ug/L	3	10	
Magnesium	R	1.2071	1.1669	20000	20530	ug/L	3	10	
Potassium	R	2.1446	2.1003	20000	19730	ug/L	-1	10	
Sodium	R	308.36	299.27	20000	19010	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2739578	-4.93

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97437321134 File : 103007ar Time : 31-OCT-2007 00:45
Cal : 97437321001 Caldate : 30-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.9804]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1663]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[1.171]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.350]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.9875]	5.000	0.3034	ug/L	!ib
Copper	A	[1.638]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[3.419]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.257]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.641]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.655]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[14.52]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[64.04]	100.0	6.086	ug/L	!ib
Magnesium	R	[13.72]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2881617	2797337	-2.92

!=warning ib=instrument blank

97437321134

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97437321 Instrument: MET09 PE ICP MET09 Begun: 30-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	103007ar	ICALBLK				30-OCT-2007 16:41	1.0	1.0				
002	103007ar	ICAL	CRIM08			30-OCT-2007 16:44	1.0	1.0			1	
003	103007ar	ICAL	CS100			30-OCT-2007 16:48	1.0	1.0			2	
004	103007ar	ICAL	CS1K			30-OCT-2007 16:51	1.0	1.0			3	
005	103007ar	ICAL	CS10K			30-OCT-2007 16:53	1.0	1.0			4	
006	103007ar	ICAL	CS100K			30-OCT-2007 16:56	1.0	1.0			5	
007	103007ar	ICV				30-OCT-2007 16:59	1.0	1.0		5000	6	
008	103007ar	ICB				30-OCT-2007 17:06	1.0	1.0		5000		
009	103007ar	ICSA				30-OCT-2007 17:13	1.0	1.0		5000	7	10:MG=553332
010	103007ar	ICSAB				30-OCT-2007 17:24	1.0	1.0		5000	8	5:MG=502860
011	103007ar	BLANK	QC412812	131087	Soil	30-OCT-2007 17:26	1.0	50.0		5000		
012	103007ar	BS	QC412813	131087	Soil	30-OCT-2007 17:30	1.0	50.0		5000		
013	103007ar	BSD	QC412814	131087	Soil	30-OCT-2007 17:32	1.0	50.0		5000		
014	103007ar	MSS	198775-015	131087	Soil	30-OCT-2007 17:34	1.0	48.08	5	5000		5:FE=1208258
015	103007ar	MS	QC412815	131087	Soil	30-OCT-2007 17:37	1.0	47.17	3	5000		5:FE=738740
016	103007ar	MSD	QC412816	131087	Soil	30-OCT-2007 17:40	1.0	46.73	2	5000		5:FE=817789
017	103007ar	SAMPLE	198775-001	131087	Soil	30-OCT-2007 17:43	1.0	45.45	3	5000		3:FE=2837266
018	103007ar	SAMPLE	198775-002	131087	Soil	30-OCT-2007 17:46	1.0	49.50	4	5000		6:FE=2854926
019	103007ar	X	RINSE			30-OCT-2007 17:49	1.0					
020	103007ar	CCV				30-OCT-2007 17:53	1.0	1.0		5000	9	
021	103007ar	X	FLUSH			30-OCT-2007 17:56	1.0					
022	103007ar	CCB				30-OCT-2007 18:00	1.0	1.0		5000		
023	103007ar	MSS	198775-015	131087	Soil	30-OCT-2007 18:05	1.0	48.08	6	5000		5:FE=1227959
024	103007ar	MSS	198775-015	131087	Soil	30-OCT-2007 18:08	10.0	48.08	1	5000		1:FE=148154
025	103007ar	SAMPLE	198775-003	131087	Soil	30-OCT-2007 18:11	1.0	46.73	2	5000		4:FE=480429
026	103007ar	SAMPLE	198775-005	131087	Soil	30-OCT-2007 18:14	1.0	46.73		5000		3:FE=1411665
027	103007ar	SAMPLE	198775-006	131087	Soil	30-OCT-2007 18:16	1.0	48.54	2	5000		3:FE=1361411
028	103007ar	SAMPLE	198775-007	131087	Soil	30-OCT-2007 18:19	1.0	44.64	2	5000		4:FE=349518
029	103007ar	SAMPLE	198775-008	131087	Soil	30-OCT-2007 18:23	1.0	46.30	2	5000		4:FE=391033
030	103007ar	SAMPLE	198775-009	131087	Soil	30-OCT-2007 18:26	1.0	48.54	6	5000		4:FE=2250729
031	103007ar	SAMPLE	198775-010	131087	Soil	30-OCT-2007 18:29	1.0	48.08	1	5000		3:FE=396304

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 10/31/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97437321 Instrument: MET09 PE ICP MET09 Begun: 30-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	103007ar	SAMPLE	198775-011	131087	Soil	30-OCT-2007 18:33	1.0	49.50	4	5000	4:FE=2494935	
033	103007ar	X	RINSE			30-OCT-2007 18:36	1.0					
034	103007ar	CCV				30-OCT-2007 18:39	1.0	1.0		5000	9	
035	103007ar	X	FLUSH			30-OCT-2007 18:42	1.0					
036	103007ar	X				30-OCT-2007 18:46	1.0	1.0	1	5000		
037	103007ar	CCB				30-OCT-2007 18:49	1.0	1.0		5000		
038	103007ar	SAMPLE	198775-012	131087	Soil	30-OCT-2007 18:53	1.0	47.62	1	5000	2:FE=2471972	
039	103007ar	SAMPLE	198775-014	131087	Soil	30-OCT-2007 18:56	1.0	49.50	1	5000	2:FE=2840914	
040	103007ar	SAMPLE	198775-016	131087	Soil	30-OCT-2007 18:59	1.0	47.17	1	5000	4:FE=376030	
041	103007ar	SAMPLE	198775-017	131087	Soil	30-OCT-2007 19:03	1.0	46.73		5000	2:FE=237519	
042	103007ar	SAMPLE	198775-018	131087	Soil	30-OCT-2007 19:06	1.0	49.50	2	5000	7:FE=973929	
043	103007ar	SAMPLE	198775-019	131087	Soil	30-OCT-2007 19:09	1.0	48.08	5	5000	8:FE=1692151	
044	103007ar	SAMPLE	198775-020	131087	Soil	30-OCT-2007 19:12	1.0	47.62	1	5000	1:AS=41812.3	
045	103007ar	SAMPLE	198775-022	131087	Soil	30-OCT-2007 19:16	1.0	49.02		5000	2:FE=207880	
046	103007ar	SAMPLE	198775-023	131087	Soil	30-OCT-2007 19:19	1.0	48.54		5000	3:FE=267928	
047	103007ar	ICSAB				30-OCT-2007 19:23	1.0	1.0		5000	8 5:MG=545060	
048	103007ar	X	RINSE			30-OCT-2007 19:26	1.0					
049	103007ar	CCV				30-OCT-2007 19:29	1.0	1.0		5000	9	
050	103007ar	X	FLUSH			30-OCT-2007 19:32	1.0					
051	103007ar	CCB				30-OCT-2007 19:36	1.0	1.0		5000		
052	103007ar	SAMPLE	198775-001	131087	Soil	30-OCT-2007 19:40	1.0	45.45	3	5000	3:FE=2972004	
053	103007ar	SAMPLE	198775-003	131087	Soil	30-OCT-2007 19:43	1.0	46.73	2	5000	4:FE=480771	
054	103007ar	SAMPLE	198775-006	131087	Soil	30-OCT-2007 19:46	1.0	48.54	1	5000	3:FE=1357256	
055	103007ar	X	RINSE			30-OCT-2007 19:49	1.0					
056	103007ar	SAMPLE	198775-007	131087	Soil	30-OCT-2007 19:53	1.0	44.64	2	5000	4:FE=376898	
057	103007ar	SAMPLE	198775-008	131087	Soil	30-OCT-2007 19:56	1.0	46.30	1	5000	4:FE=490535	
058	103007ar	SAMPLE	198775-009	131087	Soil	30-OCT-2007 19:59	1.0	48.54	3	5000	4:FE=2444071	
059	103007ar	X	RINSE			30-OCT-2007 20:02	1.0					
060	103007ar	SAMPLE	198775-010	131087	Soil	30-OCT-2007 20:06	1.0	48.08	1	5000	3:FE=406708	
061	103007ar	SAMPLE	198775-011	131087	Soil	30-OCT-2007 20:10	1.0	49.50	4	5000	4:FE=2459373	
062	103007ar	X	RINSE			30-OCT-2007 20:13	1.0					

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: AP Date: 10/31/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97437321 Instrument: MET09 PE ICP MET09 Begun: 30-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	103007ar	CCV				30-OCT-2007 20:17	1.0	1.0		5000	9	
064	103007ar	X	FLUSH			30-OCT-2007 20:20	1.0					
065	103007ar	CCB				30-OCT-2007 20:23	1.0	1.0		5000		
066	103007ar	SAMPLE	198775-012	131087	Soil	30-OCT-2007 20:27	1.0	47.62	1	5000		2:FE=2536752
067	103007ar	SAMPLE	198775-016	131087	Soil	30-OCT-2007 20:30	1.0	47.17	2	5000		4:FE=390379
068	103007ar	SAMPLE	198775-019	131087	Soil	30-OCT-2007 20:34	1.0	48.08	4	5000		8:FE=1826886
069	103007ar	X	RINSE			30-OCT-2007 20:37	1.0					
070	103007ar	X	RINSE			30-OCT-2007 20:41	1.0					
071	103007ar	SAMPLE	198775-001	131087	Soil	30-OCT-2007 20:45	10.0	45.45		5000		1:FE=447748
072	103007ar	SAMPLE	198775-002	131087	Soil	30-OCT-2007 20:48	10.0	49.50		5000		1:FE=433705
073	103007ar	SAMPLE	198775-003	131087	Soil	30-OCT-2007 20:52	10.0	46.73		5000		
074	103007ar	SAMPLE	198775-006	131087	Soil	30-OCT-2007 20:55	100.0	48.54	1	5000		
075	103007ar	SAMPLE	198775-007	131087	Soil	30-OCT-2007 20:58	10.0	44.64		5000		
076	103007ar	X	RINSE			30-OCT-2007 21:01	1.0					
077	103007ar	CCV				30-OCT-2007 21:05	1.0	1.0	2	5000	9	
078	103007ar	X				30-OCT-2007 21:06	1.0	1.0	2	5000	9	
079	103007ar	X	FLUSH			30-OCT-2007 21:09	1.0					
080	103007ar	CCB				30-OCT-2007 21:13	1.0	1.0		5000		
081	103007ar	SAMPLE	198775-009	131087	Soil	30-OCT-2007 21:17	10.0	48.54	1	5000		1:FE=303487
082	103007ar	SAMPLE	198775-010	131087	Soil	30-OCT-2007 21:20	10.0	48.08		5000		
083	103007ar	SAMPLE	198775-011	131087	Soil	30-OCT-2007 21:24	10.0	49.50		5000		1:FE=367871
084	103007ar	SAMPLE	198775-012	131087	Soil	30-OCT-2007 21:27	10.0	47.62		5000		1:FE=377162
085	103007ar	SAMPLE	198775-014	131087	Soil	30-OCT-2007 21:31	10.0	49.50		5000		1:FE=427879
086	103007ar	SAMPLE	198775-018	131087	Soil	30-OCT-2007 21:35	10.0	49.50		5000		1:FE=120253
087	103007ar	SAMPLE	198775-019	131087	Soil	30-OCT-2007 21:38	10.0	48.08	1	5000		1:FE=229619
088	103007ar	SAMPLE	198775-020	131087	Soil	30-OCT-2007 21:41	10.0	47.62		5000		
089	103007ar	ICSAB				30-OCT-2007 21:44	1.0	1.0		5000	8	5:MG=530505
090	103007ar	X	RINSE			30-OCT-2007 21:47	1.0					
091	103007ar	CCV				30-OCT-2007 21:51	1.0	1.0		5000	9	
092	103007ar	X	FLUSH			30-OCT-2007 21:53	1.0					
093	103007ar	CCB				30-OCT-2007 21:57	1.0	1.0	1	5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: JA Date: 10/31/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97437321 Instrument: MET09 PE ICP MET09 Begun: 30-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	103007ar	X				30-OCT-2007 22:01	1.0						
095	103007ar	BLANK	QC413007	131130	Soil	30-OCT-2007 22:14	1.0	50.0	1		5000		
096	103007ar	BS	QC413008	131130	Soil	30-OCT-2007 22:18	1.0	50.0	1		5000		
097	103007ar	BSD	QC413009	131130	Soil	30-OCT-2007 22:20	1.0	50.0	1		5000		
098	103007ar	MSS	198818-004	131130	Soil	30-OCT-2007 22:22	1.0	47.17	4		5000		3:FE=301144
099	103007ar	MS	QC413010	131130	Soil	30-OCT-2007 22:25	1.0	45.05		3	5000		4:FE=352482
100	103007ar	MSD	QC413011	131130	Soil	30-OCT-2007 22:28	1.0	49.50		2	5000		4:FE=310100
101	103007ar	SER	QC413012	131130	Soil	30-OCT-2007 22:31	5.0	47.17		12	5000		
102	103007ar	PDS	QC413013	131130	Soil	30-OCT-2007 22:34	1.0	47.17			5000	10 11	3:FE=326132
103	103007ar	X	RINSE			30-OCT-2007 22:37	1.0						
104	103007ar	CCV				30-OCT-2007 22:41	1.0	1.0			5000	9	
105	103007ar	X	FLUSH			30-OCT-2007 22:44	1.0						
106	103007ar	CCB				30-OCT-2007 22:48	1.0	1.0			5000		
107	103007ar	MSS	198818-004	131130	Soil	30-OCT-2007 22:52	1.0	47.17	3		5000		3:FE=344092
108	103007ar	SAMPLE	198811-001	131130	Soil	30-OCT-2007 22:55	1.0	49.02			5000		2:AL=114073
109	103007ar	SAMPLE	198811-002	131130	Soil	30-OCT-2007 22:58	1.0	45.45			5000		3:FE=191401
110	103007ar	SAMPLE	198811-003	131130	Soil	30-OCT-2007 23:01	1.0	49.02			5000		2:FE=189619
111	103007ar	SAMPLE	198818-001	131130	Soil	30-OCT-2007 23:04	1.0	45.45			5000		2:FE=273653
112	103007ar	SAMPLE	198818-002	131130	Soil	30-OCT-2007 23:08	1.0	47.62	2		5000		5:FE=298337
113	103007ar	SAMPLE	198818-003	131130	Soil	30-OCT-2007 23:12	1.0	47.62			5000		6:FE=793541
114	103007ar	SAMPLE	198818-005	131130	Soil	30-OCT-2007 23:15	1.0	50.0			5000		6:FE=635161
115	103007ar	SAMPLE	198818-006	131130	Soil	30-OCT-2007 23:18	1.0	47.62			5000		1:FE=223242
116	103007ar	ICSAB				30-OCT-2007 23:21	1.0	1.0			5000	8	5:MG=530764
117	103007ar	X	RINSE			30-OCT-2007 23:24	1.0						
118	103007ar	CCV				30-OCT-2007 23:28	1.0	1.0	2		5000	9	
119	103007ar	X				30-OCT-2007 23:29	1.0					9	
120	103007ar	X	FLUSH			30-OCT-2007 23:32	1.0						
121	103007ar	X				30-OCT-2007 23:36	1.0						
122	103007ar	CCB				30-OCT-2007 23:39	1.0	1.0			5000		
123	103007ar	SAMPLE	198818-007	131130	Soil	30-OCT-2007 23:43	1.0	47.62			5000		5:FE=485555
124	103007ar	SAMPLE	~~198817-001~~ 198818-006 re-run	131130	Soil	30-OCT-2007 23:46	1.0	44.64			5000		3:FE=310637

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 10/31/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97437321 Instrument: MET09 PE ICP MET09 Begun: 30-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
125	103007ar	SAMPLE	198810-001	131130	Miscel	30-OCT-2007 23:50	1.0	49.02		5000		1:NA=153838
126	103007ar	SAMPLE	198810-002	131130	Miscel	30-OCT-2007 23:53	1.0	48.08		5000		1:NA=147974
127	103007ar	X	RINSE			31-OCT-2007 00:04	1.0					
128	103007ar	SAMPLE	198818-002	131130	Soil	31-OCT-2007 00:25	1.0	47.62	1	5000		5:FE=313569
129	103007ar	SAMPLE	198818-003	131130	Soil	31-OCT-2007 00:28	1.0	47.62		5000		6:FE=795436
130	103007ar	ICSAB				31-OCT-2007 00:31	1.0	1.0		5000	8	5:MG=509341
131	103007ar	X	RINSE			31-OCT-2007 00:34	1.0					
132	103007ar	CCV				31-OCT-2007 00:38	1.0	1.0		5000	9	
133	103007ar	X	FLUSH			31-OCT-2007 00:41	1.0					
134	103007ar	CCB				31-OCT-2007 00:45	1.0	1.0		5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 10/31/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 97438642001
Units : ug/L

Date : 31-OCT-2007 14:42
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	103107cr	97438642002	CRIM08	31-OCT-2007 14:46	S7555
L2	103107cr	97438642003	CS100	31-OCT-2007 14:50	S7382
L3	103107cr	97438642004	CS1K	31-OCT-2007 14:52	S7381
L4	103107cr	97438642005	CS10K	31-OCT-2007 14:55	S7383
L5	103107cr	97438642006	CS100K	31-OCT-2007 14:58	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	23.897	19.444	19.246	19.242		LOR0	0.00000	0.05197		20.457	1.000	0.995	
Arsenic	A	10.891	10.906	10.851	10.706		LOR0	0.00000	0.09340		10.838	1.000	0.995	
Barium	A	103.18	103.90	103.05	100.22		LOR0	0.00000	0.00998		102.59	1.000	0.995	
Beryllium	A	4783.2	4929.8	4886.9			LOR0	0.00000	2.05E-4		4866.6	1.000	0.995	
Boron	A	210.30		212.37	217.72		LOR0	0.00000	0.00459		213.46	1.000	0.995	
Cadmium	A	168.63	170.24	172.17	168.46		LOR0	0.00000	0.00593		169.87	1.000	0.995	
Chromium	A	149.70	179.51	181.56	179.51		LOR0	0.00000	0.00557		172.57	1.000	0.995	
Cobalt	A	58.527	60.480	60.618	60.164		LOR0	0.00000	0.01662		59.947	1.000	0.995	
Copper	A	199.23	208.75	209.17	207.83		LOR0	0.00000	0.00481		206.25	1.000	0.995	
Lead	A	44.072	57.751	57.877	55.973		LOR0	0.00000	0.01786		53.918	1.000	0.995	
Manganese	A	461.80	547.66	539.82	513.34		LOR0	0.00000	0.00195		515.65	1.000	0.995	
Molybdenum	A	42.661	45.806	44.483	42.805		LOR0	0.00000	0.02335		43.939	1.000	0.995	
Nickel	A	74.840	88.224	89.805	88.652		LOR0	0.00000	0.01128		85.380	1.000	0.995	
Selenium	A	19.231	13.714	13.688	13.906		LOR0	0.00000	0.07192		15.135	1.000	0.995	
Silver	A	617.46	552.21	537.52	543.18		LOR0	0.00000	0.00184		562.59	1.000	0.995	
Thallium	A	11.178	11.456	11.043	10.771		LOR0	0.00000	0.09282		11.112	1.000	0.995	
Tin	A	18.668	18.965	19.522	19.815		LOR0	0.00000	0.05047		19.243	1.000	0.995	
Titanium	A	704.94	795.81	788.75	761.23		LOR0	0.00000	0.00131		762.68	1.000	0.995	
Vanadium	A	178.64	216.77	217.34	219.40		LOR0	0.00000	0.00456		208.03	1.000	0.995	
Zinc	A	129.58	93.733	88.320	87.989		LOR0	0.00000	0.01136		99.906	1.000	0.995	
Aluminum	R	0.6925		0.8444	0.7856	0.8132	LOR0	0.00000	1.23012		0.7839	1.000	0.995	
Calcium	R	7.8765		8.7686	8.3854	8.4858	LOR0	0.00000	0.11786		8.3790	1.000	0.995	
Iron	R	2.3141		2.6239	2.5215	2.5718	LOR0	0.00000	0.38891		2.5078	1.000	0.995	
Magnesium	R	1.1617		1.3754	1.3181	1.3172	LOR0	0.00000	0.75916		1.2931	1.000	0.995	
Potassium	R	3.1770		2.9003	2.6088	2.7195	LOR0	0.00000	0.36786		2.8514	1.000	0.995	
Sodium	R	307.49		330.09	310.91	317.49	LOR0	0.00000	0.00315		316.50	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	24	100.0	1	1000	0	10000	0		
Arsenic	A	5.000	2	100.0	2	1000	1	10000	0		
Barium	A	5.000	3	100.0	4	1000	3	10000	0		
Beryllium	A	2.000	-2	100.0	1	1000	0				
Boron	A	100.0	-3			1000	-2	10000	0		
Cadmium	A	5.000	0	100.0	1	1000	2	10000	0		
Chromium	A	5.000	-17	100.0	0	1000	1	10000	0		
Cobalt	A	5.000	-3	100.0	1	1000	1	10000	0		
Copper	A	5.000	-4	100.0	0	1000	1	10000	0		
Lead	A	3.000	-21	100.0	3	1000	3	10000	0		
Manganese	A	5.000	-10	100.0	7	1000	5	10000	0		
Molybdenum	A	5.000	0	100.0	7	1000	4	10000	0		
Nickel	A	5.000	-16	100.0	0	1000	1	10000	0		
Selenium	A	5.000	38	100.0	-1	1000	-2	10000	0		
Silver	A	5.000	14	100.0	2	1000	-1	2000	0		
Thallium	A	5.000	4	100.0	6	1000	2	10000	0		
Tin	A	40.00	-6	100.0	-4	1000	-1	10000	0		
Titanium	A	10.00	-7	100.0	5	1000	4	10000	0		
Vanadium	A	5.000	-19	100.0	-1	1000	-1	10000	0		
Zinc	A	20.00	47	100.0	7	1000	0	10000	0		
Aluminum	R	100.0	-15			1000	4	10000	-3	100000	0
Calcium	R	200.0	-7			1000	3	10000	-1	100000	0
Iron	R	100.0	-10			1000	2	10000	-2	100000	0
Magnesium	R	200.0	-12			1000	4	10000	0	100000	0
Potassium	R	500.0	17			1000	7	10000	-4	100000	0
Sodium	R	500.0	-3			1000	4	10000	-2	100000	0

SGS

nstrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/31/2007 2:46:00 PM
Data Type: Reprocessed on 10/31/2007 3:32:20 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3008815.0	24502.79	0.81%	100.0	%
Y	257277.9	3572.46	1.39%	100.0	%
Ag 328.068†	3087.3	557.64	18.06%	[5.0]	ug/L
Al 308.215 R†	69.2	3.21	4.64%	[100]	ug/L
As 188.979†	54.5	26.96	49.51%	[5.0]	ug/L
B 249.677†	21030.0	208.18	0.99%	[100]	ug/L
Ba 233.527†	515.9	11.02	2.14%	[5.0]	ug/L
Be 313.107†	9566.4	98.10	1.03%	[2.0]	ug/L
Ca 315.887 R†	1575.3	33.49	2.13%	[200]	ug/L
Cd 214.440†	843.1	7.27	0.86%	[5.0]	ug/L
Co 228.616†	292.6	8.71	2.98%	[5.0]	ug/L
Cr 267.716†	748.5	41.12	5.49%	[5.0]	ug/L
Cu 324.752†	996.2	31.84	3.20%	[5.0]	ug/L
Fe 238.204 R†	231.4	2.27	0.98%	[100]	ug/L
K 766.490 R†	1588.5	71.47	4.50%	[500]	ug/L
Mg 279.077 R†	232.3	1.20	0.52%	[200]	ug/L
Mn 257.610†	2309.0	15.74	0.68%	[5.0]	ug/L
Mo 202.031†	213.3	8.82	4.13%	[5.0]	ug/L
Na 589.592 R†	153746.9	1726.47	1.12%	[500]	ug/L
Ni 231.604†	374.2	5.49	1.47%	[5.0]	ug/L
Pb 220.353†	132.2	52.88	40.00%	[3.0]	ug/L
Sb 206.836†	119.5	22.78	19.07%	[5.0]	ug/L
Se 196.026†	96.2	33.86	35.21%	[5.0]	ug/L
Ti 334.940 R†	7049.4	73.86	1.05%	[10]	ug/L
Tl 190.801†	55.9	24.99	44.71%	[5.0]	ug/L
V 292.402†	893.2	137.80	15.43%	[5.0]	ug/L
Zn 206.200†	2591.7	16.48	0.64%	[20]	ug/L
Sn 189.927†	746.7	10.73	1.44%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/31/2007 2:50:01 PM
Data Type: Reprocessed on 10/31/2007 3:32:21 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3015128.8	53141.35	1.76%	100.2	%
Y	260645.3	1383.51	0.53%	101.3	%
Ag 328.068†	55221.2	613.70	1.11%	[100]	ug/L
As 188.979†	1090.6	35.56	3.26%	[100]	ug/L
Ba 233.527†	10390.0	220.89	2.13%	[100]	ug/L
Be 313.107†	492977.4	911.56	0.18%	[100]	ug/L
Cd 214.440†	17024.0	366.66	2.15%	[100]	ug/L
Co 228.616†	6048.0	116.56	1.93%	[100]	ug/L
Cr 267.716†	17951.5	357.98	1.99%	[100]	ug/L
Cu 324.752†	20875.1	13.69	0.07%	[100]	ug/L
Mn 257.610†	54765.8	270.55	0.49%	[100]	ug/L
Mo 202.031†	4580.6	109.87	2.40%	[100]	ug/L
Ni 231.604†	8822.4	171.61	1.95%	[100]	ug/L
Pb 220.353†	5775.1	159.44	2.76%	[100]	ug/L
Sb 206.836†	1944.4	28.16	1.45%	[100]	ug/L
Se 196.026†	1371.4	46.73	3.41%	[100]	ug/L
Ti 334.940 R†	79580.8	116.46	0.15%	[100]	ug/L
Tl 190.801†	1145.6	72.70	6.35%	[100]	ug/L
V 292.402†	21677.0	48.74	0.22%	[100]	ug/L
Zn 206.200†	9373.3	182.62	1.95%	[100]	ug/L
Sn 189.927†	1896.5	42.49	2.24%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/31/2007 2:52:58 PM
Data Type: Reprocessed on 10/31/2007 3:32:22 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3009363.5	52660.20	1.75%	100.0	%
Y	253303.3	5849.71	2.31%	98.46	%
Ag 328.068†	537516.8	7045.97	1.31%	[1000]	ug/L
Al 308.215 R†	844.4	9.87	1.17%	[1000]	ug/L
As 188.979†	10851.0	169.38	1.56%	[1000]	ug/L
B 249.677†	212367.8	2552.05	1.20%	[1000]	ug/L
Ba 233.527†	103052.4	1336.65	1.30%	[1000]	ug/L
Be 313.107†	4886932.4	55176.80	1.13%	[1000]	ug/L
Ca 315.887 R†	8768.6	60.42	0.69%	[1000]	ug/L
Cd 214.440†	172167.9	2248.05	1.31%	[1000]	ug/L
Co 228.616†	60617.6	472.80	0.78%	[1000]	ug/L
Cr 267.716†	181563.2	2225.19	1.23%	[1000]	ug/L
Cu 324.752†	209173.2	2944.88	1.41%	[1000]	ug/L
Fe 238.204 R†	2623.9	15.66	0.60%	[1000]	ug/L
K 766.490 R†	2900.3	68.54	2.36%	[1000]	ug/L
Mg 279.077 R†	1375.4	33.80	2.46%	[1000]	ug/L
Mn 257.610†	539818.7	6151.46	1.14%	[1000]	ug/L
Mo 202.031†	44483.4	428.94	0.96%	[1000]	ug/L
Na 589.592 R†	330091.2	13946.33	4.22%	[1000]	ug/L
Ni 231.604†	89805.0	970.59	1.08%	[1000]	ug/L
Pb 220.353†	57877.5	904.29	1.56%	[1000]	ug/L
Sb 206.836†	19246.2	212.41	1.10%	[1000]	ug/L
Se 196.026†	13688.1	252.44	1.84%	[1000]	ug/L
Ti 334.940 R†	788751.8	10362.42	1.31%	[1000]	ug/L
Tl 190.801†	11042.5	290.95	2.63%	[1000]	ug/L
V 292.402†	217337.8	2805.28	1.29%	[1000]	ug/L
Zn 206.200†	88319.6	921.71	1.04%	[1000]	ug/L
Sn 189.927†	19521.5	201.67	1.03%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/31/2007 2:55:05 PM
Data Type: Reprocessed on 10/31/2007 3:32:23 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2942867.7	21917.71	0.74%	97.81	%
Y	252999.4	5479.15	2.17%	98.34	%
Ag 328.068†	1086362.7	4744.43	0.44%	[2000]	ug/L
Al 308.215 R†	7856.3	29.75	0.38%	[10000]	ug/L
As 188.979†	107055.4	1350.71	1.26%	[10000]	ug/L
B 249.677†	2177232.8	11642.73	0.53%	[10000]	ug/L
Ba 233.527†	1002168.0	4722.06	0.47%	[10000]	ug/L
Ca 315.887 R†	83853.5	337.50	0.40%	[10000]	ug/L
Cd 214.440†	1684626.8	22648.26	1.34%	[10000]	ug/L
Co 228.616†	601636.9	2775.10	0.46%	[10000]	ug/L
Cr 267.716†	1795060.4	7328.15	0.41%	[10000]	ug/L
Cu 324.752†	2078293.0	15762.45	0.76%	[10000]	ug/L
Fe 238.204 R†	25215.1	129.04	0.51%	[10000]	ug/L
K 766.490 R†	26087.6	253.50	0.97%	[10000]	ug/L
Mg 279.077 R†	13180.5	24.59	0.19%	[10000]	ug/L
Mn 257.610†	5133359.4	35257.38	0.69%	[10000]	ug/L
Mo 202.031†	428054.6	7096.16	1.66%	[10000]	ug/L
Na 589.592 R†	3109057.6	14303.85	0.46%	[10000]	ug/L
Ni 231.604†	886518.8	4398.95	0.50%	[10000]	ug/L
Pb 220.353†	559726.4	9541.47	1.70%	[10000]	ug/L
Sb 206.836†	192423.2	1829.93	0.95%	[10000]	ug/L
Se 196.026†	139062.0	1271.55	0.91%	[10000]	ug/L
Ti 334.940 R†	7612296.4	34244.89	0.45%	[10000]	ug/L
Tl 190.801†	107705.1	1662.08	1.54%	[10000]	ug/L
V 292.402†	2193954.4	7576.64	0.35%	[10000]	ug/L
Zn 206.200†	879885.9	5554.01	0.63%	[10000]	ug/L
Sn 189.927†	198148.5	2046.99	1.03%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/31/2007 2:58:00 PM
Data Type: Reprocessed on 10/31/2007 3:32:24 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2742062.7	29135.66	1.06%	91.13	%
Y	248403.3	1666.86	0.67%	96.55	%
Al 308.215 Rf	81320.1	274.68	0.34%	[100000]	ug/L
Ca 315.887 Rf	848578.9	1110.77	0.13%	[100000]	ug/L
Fe 238.204 Rf	257179.4	918.72	0.36%	[100000]	ug/L
K 766.490 Rf	271949.1	795.06	0.29%	[100000]	ug/L
Mg 279.077 Rf	131723.9	155.53	0.12%	[100000]	ug/L
Na 589.592 Rf	31749388.6	95137.13	0.30%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	542.1	0.00000	0.999991	
Al 308.215 R	4	Lin Thru 0	0.0	0.8129	0.00000	0.999994	
As 188.979	4	Lin Thru 0	0.0	10.71	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	217.7	0.00000	0.999997	
Ba 233.527	4	Lin Thru 0	0.0	100.2	0.00000	0.999996	
Be 313.107	3	Lin Thru 0	0.0	4887	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	8.485	0.00000	0.999999	
Cd 214.440	4	Lin Thru 0	0.0	168.5	0.00000	0.999998	
Co 228.616	4	Lin Thru 0	0.0	60.17	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	179.5	0.00000	0.999999	
Cu 324.752	4	Lin Thru 0	0.0	207.8	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	2.571	0.00000	0.999998	
K 766.490 R	4	Lin Thru 0	0.0	2.718	0.00000	0.999991	
Mg 279.077 R	4	Lin Thru 0	0.0	1.317	0.00000	1.000000	
Mn 257.610	4	Lin Thru 0	0.0	513.6	0.00000	0.999987	
Mo 202.031	4	Lin Thru 0	0.0	42.82	0.00000	0.999992	
Na 589.592 R	4	Lin Thru 0	0.0	317.4	0.00000	0.999998	
Ni 231.604	4	Lin Thru 0	0.0	88.66	0.00000	0.999999	
Pb 220.353	4	Lin Thru 0	0.0	55.99	0.00000	0.999994	
Sb 206.836	4	Lin Thru 0	0.0	19.24	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	13.90	0.00000	0.999999	
Ti 334.940 R	4	Lin Thru 0	0.0	761.5	0.00000	0.999993	
Tl 190.801	4	Lin Thru 0	0.0	10.77	0.00000	0.999997	
V 292.402	4	Lin Thru 0	0.0	219.4	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	87.99	0.00000	0.999999	
Sn 189.927	4	Lin Thru 0	0.0	19.81	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642007 File : 103107cr Time : 31-OCT-2007 15:00
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	20.457	20.179	5000	5243	ug/L	5	10	
Arsenic	A	10.838	11.591	5000	5413	ug/L	8	10	
Barium	A	102.59	107.30	5000	5352	ug/L	7	10	
Beryllium	A	4866.6	5169.1	500.0	528.8	ug/L	6	10	
Boron	A	213.46	234.66	5000	5390	ug/L	8	10	
Cadmium	A	169.87	176.13	5000	5226	ug/L	5	10	
Chromium	A	172.57	185.70	5000	5172	ug/L	3	10	
Cobalt	A	59.947	62.005	5000	5141	ug/L	3	10	
Copper	A	206.25	214.77	5000	5167	ug/L	3	10	
Lead	A	53.918	58.148	5000	5193	ug/L	4	10	
Manganese	A	515.65	536.30	5000	5221	ug/L	4	10	
Molybdenum	A	43.939	45.328	5000	5293	ug/L	6	10	
Nickel	A	85.380	92.384	5000	5210	ug/L	4	10	
Selenium	A	15.135	14.650	5000	5268	ug/L	5	10	
Silver	A	562.59	552.98	1000	1020	ug/L	2	10	
Thallium	A	11.112	11.316	5000	5252	ug/L	5	10	
Tin	A	19.243	20.529	5000	5181	ug/L	4	10	
Titanium	A	762.68	789.83	5000	5186	ug/L	4	10	
Vanadium	A	208.03	227.89	5000	5194	ug/L	4	10	
Zinc	A	99.906	91.953	5000	5225	ug/L	5	10	
Aluminum	R	0.7839	0.8084	20000	19890	ug/L	-1	10	
Calcium	R	8.3790	8.6354	20000	20350	ug/L	2	10	
Iron	R	2.5078	2.6128	20000	20320	ug/L	2	10	
Magnesium	R	1.2931	1.3697	20000	20800	ug/L	4	10	
Potassium	R	2.8514	2.6859	20000	19760	ug/L	-1	10	
Sodium	R	316.50	319.53	20000	20130	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2841306	-5.57

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642008 File : 103107cr Time : 31-OCT-2007 15:07
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[3.252]	5.000	1.074	ug/L	!ib
Arsenic	A	[3.675]	5.000	1.320	ug/L	!ib
Barium	A	[0.8762]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1468]	2.000	0.04231	ug/L	!ib
Boron	A	[8.866]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.037]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	[0.8511]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[1.817]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.4330]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.852]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.451]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.111]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[8.769]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[40.63]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2965830	-1.43

!=warning ib=instrument blank

97438642008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09
Seqnum : 97438642009
Cal : 97438642001
Standards: S7557

File : 103107cr
Caldate : 31-OCT-2007

IDF : 1.0
Time : 31-OCT-2007 15:11

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	6.947	5.000	ug/L	
Arsenic	A	[2.970]	5.000	ug/L	
Barium	A	[-0.6733]	5.000	ug/L	
Beryllium	A	[0.02135]	2.000	ug/L	
Boron	A	[-7.100]	100.0	ug/L	
Cadmium	A	[1.895]	5.000	ug/L	
Cobalt	A	[-2.714]	5.000	ug/L	
Lead	A	[-1.253]	3.000	ug/L	
Molybdenum	A	[2.441]	5.000	ug/L	
Selenium	A	[2.021]	5.000	ug/L	
Silver	A	[1.722]	5.000	ug/L	
Thallium	A	[-1.508]	5.000	ug/L	
Tin	A	[-5.016]	40.00	ug/L	
Zinc	A	[16.16]	20.00	ug/L	
Potassium	R	[71.86]	500.0	ug/L	
Sodium	R	[29.23]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18980	ug/L	95
Copper	A	20000	20520	ug/L	103
Manganese	A	20000	18340	ug/L	92
Nickel	A	20000	17770	ug/L	89
Titanium	A	20000	19600	ug/L	98
Vanadium	A	20000	19850	ug/L	99
Aluminum	R	500000	474500	ug/L	95
Calcium	R	500000	462100	ug/L	92
Iron	R	200000	176100	ug/L	88
Magnesium	R	500000	471300	ug/L	94

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2585138	-14.08

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642010 File : 103107cr Time : 31-OCT-2007 15:33
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	485.8	ug/L	-3	20	
Arsenic	A	500.0	503.7	ug/L	1	20	
Barium	A	500.0	492.8	ug/L	-1	20	
Beryllium	A	500.0	503.7	ug/L	1	20	
Cadmium	A	1000	936.4	ug/L	-6	20	
Chromium	A	500.0	477.9	ug/L	-4	20	
Cobalt	A	500.0	433.6	ug/L	-13	20	
Copper	A	500.0	514.9	ug/L	3	20	
Lead	A	1000	853.7	ug/L	-15	20	
Manganese	A	500.0	490.9	ug/L	-2	20	
Molybdenum	A	500.0	504.5	ug/L	1	20	
Nickel	A	1000	909.7	ug/L	-9	20	
Selenium	A	500.0	458.9	ug/L	-8	20	
Silver	A	1000	1032	ug/L	3	20	
Thallium	A	500.0	414.0	ug/L	-17	20	
Titanium	A	20000	19140	ug/L	-4		
Vanadium	A	500.0	506.8	ug/L	1	20	
Zinc	A	1000	946.2	ug/L	-5	20	
Aluminum	R	500000	461100	ug/L	-8		
Calcium	R	500000	450100	ug/L	-10		
Iron	R	200000	171300	ug/L	-14		
Magnesium	R	500000	459900	ug/L	-8		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2587301	-14.01

97438642010

00456

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642017 File : 103107cr Time : 31-OCT-2007 15:54
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	519.2	ug/L	4	20	
Arsenic	A	500.0	519.2	ug/L	4	20	
Barium	A	500.0	508.6	ug/L	2	20	
Beryllium	A	500.0	512.8	ug/L	3	20	
Cadmium	A	1000	956.4	ug/L	-4	20	
Chromium	A	500.0	485.7	ug/L	-3	20	
Cobalt	A	500.0	449.5	ug/L	-10	20	
Copper	A	500.0	521.8	ug/L	4	20	
Lead	A	1000	886.5	ug/L	-11	20	
Manganese	A	500.0	500.5	ug/L	0	20	
Molybdenum	A	500.0	518.8	ug/L	4	20	
Nickel	A	1000	925.4	ug/L	-7	20	
Selenium	A	500.0	520.4	ug/L	4	20	
Silver	A	1000	1047	ug/L	5	20	
Thallium	A	500.0	428.4	ug/L	-14	20	
Titanium	A	20000	19350	ug/L	-3		
Vanadium	A	500.0	515.1	ug/L	3	20	
Zinc	A	1000	959.9	ug/L	-4	20	
Aluminum	R	500000	468000	ug/L	-6		
Calcium	R	500000	457200	ug/L	-9		
Iron	R	200000	177000	ug/L	-11		
Magnesium	R	500000	466700	ug/L	-7		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2552063	-15.18

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642019 File : 103107cr Time : 31-OCT-2007 16:01
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.457	19.477	5000	5061	ug/L	1	10	
Arsenic	A	10.838	11.037	5000	5154	ug/L	3	10	
Barium	A	102.59	103.44	5000	5159	ug/L	3	10	
Beryllium	A	4866.6	4963.6	500.0	507.8	ug/L	2	10	
Boron	A	213.46	225.36	5000	5177	ug/L	4	10	
Cadmium	A	169.87	169.72	5000	5036	ug/L	1	10	
Chromium	A	172.57	179.64	5000	5003	ug/L	0	10	
Cobalt	A	59.947	59.543	5000	4937	ug/L	-1	10	
Copper	A	206.25	208.35	5000	5012	ug/L	0	10	
Lead	A	53.918	56.657	5000	5059	ug/L	1	10	
Manganese	A	515.65	520.70	5000	5069	ug/L	1	10	
Molybdenum	A	43.939	43.388	5000	5066	ug/L	1	10	
Nickel	A	85.380	88.156	5000	4971	ug/L	-1	10	
Selenium	A	15.135	14.005	5000	5036	ug/L	1	10	
Silver	A	562.59	548.88	1000	1013	ug/L	1	10	
Thallium	A	11.112	10.712	5000	4972	ug/L	-1	10	
Tin	A	19.243	19.753	5000	4985	ug/L	0	10	
Titanium	A	762.68	767.53	5000	5040	ug/L	1	10	
Vanadium	A	208.03	221.33	5000	5045	ug/L	1	10	
Zinc	A	99.906	86.776	5000	4931	ug/L	-1	10	
Aluminum	R	0.7839	0.8062	20000	19830	ug/L	-1	10	
Calcium	R	8.3790	8.4632	20000	19950	ug/L	0	10	
Iron	R	2.5078	2.5623	20000	19930	ug/L	0	10	
Magnesium	R	1.2931	1.3239	20000	20100	ug/L	1	10	
Potassium	R	2.8514	2.6852	20000	19760	ug/L	-1	10	
Sodium	R	316.50	318.08	20000	20040	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2806016	-6.74

97438642019

00458

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642021 File : 103107cr Time : 31-OCT-2007 16:07
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[3.584]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.9633]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1691]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.9072]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.2716]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.8022]	5.000	0.3034	ug/L	!ib
Copper	A	[0.9483]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.701]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.4723]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[3.091]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.026]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[7.103]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	[28.39]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2934658	-2.46

!=warning ib=instrument blank

97438642021

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642025 File : 103107cr Time : 31-OCT-2007 16:23
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	510.9	ug/L	2	20	
Arsenic	A	500.0	535.6	ug/L	7	20	
Barium	A	500.0	513.1	ug/L	3	20	
Beryllium	A	500.0	508.3	ug/L	2	20	
Cadmium	A	1000	970.8	ug/L	-3	20	
Chromium	A	500.0	483.5	ug/L	-3	20	
Cobalt	A	500.0	455.1	ug/L	-9	20	
Copper	A	500.0	516.6	ug/L	3	20	
Lead	A	1000	903.2	ug/L	-10	20	
Manganese	A	500.0	502.5	ug/L	0	20	
Molybdenum	A	500.0	526.3	ug/L	5	20	
Nickel	A	1000	921.7	ug/L	-8	20	
Selenium	A	500.0	494.9	ug/L	-1	20	
Silver	A	1000	1065	ug/L	7	20	
Thallium	A	500.0	415.4	ug/L	-17	20	
Titanium	A	20000	19310	ug/L	-3		
Vanadium	A	500.0	513.6	ug/L	3	20	
Zinc	A	1000	956.7	ug/L	-4	20	
Aluminum	R	500000	409300	ug/L	-18		
Calcium	R	500000	393900	ug/L	-21		
Iron	R	200000	155000	ug/L	-23		
Magnesium	R	500000	399500	ug/L	-20		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2576044	-14.38

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642027 File : 103107cr Time : 31-OCT-2007 16:30
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.457	19.396	5000	5040	ug/L	1	10	
Arsenic	A	10.838	11.074	5000	5171	ug/L	3	10	
Barium	A	102.59	103.23	5000	5149	ug/L	3	10	
Beryllium	A	4866.6	4942.6	500.0	505.7	ug/L	1	10	
Boron	A	213.46	225.36	5000	5177	ug/L	4	10	
Cadmium	A	169.87	173.82	5000	5158	ug/L	3	10	
Chromium	A	172.57	178.97	5000	4984	ug/L	0	10	
Cobalt	A	59.947	59.006	5000	4892	ug/L	-2	10	
Copper	A	206.25	205.81	5000	4951	ug/L	-1	10	
Lead	A	53.918	58.259	5000	5202	ug/L	4	10	
Manganese	A	515.65	526.26	5000	5123	ug/L	2	10	
Molybdenum	A	43.939	42.859	5000	5004	ug/L	0	10	
Nickel	A	85.380	87.737	5000	4948	ug/L	-1	10	
Selenium	A	15.135	13.855	5000	4982	ug/L	0	10	
Silver	A	562.59	556.71	1000	1027	ug/L	3	10	
Thallium	A	11.112	10.437	5000	4844	ug/L	-3	10	
Tin	A	19.243	19.732	5000	4980	ug/L	0	10	
Titanium	A	762.68	766.24	5000	5031	ug/L	1	10	
Vanadium	A	208.03	220.59	5000	5028	ug/L	1	10	
Zinc	A	99.906	86.995	5000	4943	ug/L	-1	10	
Aluminum	R	0.7839	0.8023	20000	19740	ug/L	-1	10	
Calcium	R	8.3790	8.4605	20000	19940	ug/L	0	10	
Iron	R	2.5078	2.5833	20000	20090	ug/L	0	10	
Magnesium	R	1.2931	1.3224	20000	20080	ug/L	0	10	
Potassium	R	2.8514	2.6851	20000	19750	ug/L	-1	10	
Sodium	R	316.50	320.57	20000	20200	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2786009	-7.41

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642029 File : 103107cr Time : 31-OCT-2007 16:37
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[3.310]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[1.214]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1553]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[1.107]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.4182]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.239]	5.000	0.3034	ug/L	!ib
Copper	A	[1.351]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.5820]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[4.096]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.6111]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[3.106]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.230]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.057]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[15.08]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[116.7]	500.0	39.71	ug/L	!ib
Sodium	R	[39.20]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2944206	-2.15

!=warning ib=instrument blank

97438642029

00462

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642041 File : 103107cr Time : 31-OCT-2007 17:21
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.457	19.381	5000	5036	ug/L	1	10	
Arsenic	A	10.838	10.978	5000	5127	ug/L	3	10	
Barium	A	102.59	103.91	5000	5183	ug/L	4	10	
Beryllium	A	4866.6	4986.0	500.0	510.1	ug/L	2	10	
Boron	A	213.46	226.18	5000	5195	ug/L	4	10	
Cadmium	A	169.87	169.59	5000	5032	ug/L	1	10	
Chromium	A	172.57	180.32	5000	5022	ug/L	0	10	
Cobalt	A	59.947	59.263	5000	4914	ug/L	-2	10	
Copper	A	206.25	210.22	5000	5057	ug/L	1	10	
Lead	A	53.918	56.104	5000	5010	ug/L	0	10	
Manganese	A	515.65	521.34	5000	5075	ug/L	2	10	
Molybdenum	A	43.939	42.742	5000	4991	ug/L	0	10	
Nickel	A	85.380	87.525	5000	4936	ug/L	-1	10	
Selenium	A	15.135	13.806	5000	4965	ug/L	-1	10	
Silver	A	562.59	545.68	1000	1007	ug/L	1	10	
Thallium	A	11.112	10.675	5000	4955	ug/L	-1	10	
Tin	A	19.243	19.613	5000	4950	ug/L	-1	10	
Titanium	A	762.68	771.17	5000	5063	ug/L	1	10	
Vanadium	A	208.03	222.20	5000	5064	ug/L	1	10	
Zinc	A	99.906	87.458	5000	4970	ug/L	-1	10	
Aluminum	R	0.7839	0.8021	20000	19730	ug/L	-1	10	
Calcium	R	8.3790	8.3827	20000	19760	ug/L	-1	10	
Iron	R	2.5078	2.5343	20000	19710	ug/L	-1	10	
Magnesium	R	1.2931	1.3111	20000	19910	ug/L	0	10	
Potassium	R	2.8514	2.6638	20000	19600	ug/L	-2	10	
Sodium	R	316.50	318.45	20000	20060	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2796878	-7.04

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642043 File : 103107cr Time : 31-OCT-2007 17:27
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.064]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[1.588]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2130]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[1.512]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.7244]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.447]	5.000	0.3034	ug/L	!ib
Copper	A	[1.558]	5.000	0.8535	ug/L	!ib
Lead	A	[1.066]	3.000	0.6892	ug/L	!ib
Manganese	A	[0.9634]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.402]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.054]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.566]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.025]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.544]	20.00	0.8377	ug/L	!ib
Aluminum	R	[17.76]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[18.05]	100.0	6.086	ug/L	!ib
Magnesium	R	[12.97]	200.0	10.47	ug/L	!ib
Potassium	R	[73.02]	500.0	39.71	ug/L	!ib
Sodium	R	[66.83]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2926059	-2.75

!=warning ib=instrument blank

97438642043

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642047 File : 103107cr Time : 31-OCT-2007 17:44
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	501.3	ug/L	0	20	
Arsenic	A	500.0	514.9	ug/L	3	20	
Barium	A	500.0	511.4	ug/L	2	20	
Beryllium	A	500.0	507.8	ug/L	2	20	
Cadmium	A	1000	929.6	ug/L	-7	20	
Chromium	A	500.0	482.6	ug/L	-3	20	
Cobalt	A	500.0	450.8	ug/L	-10	20	
Copper	A	500.0	524.4	ug/L	5	20	
Lead	A	1000	853.1	ug/L	-15	20	
Manganese	A	500.0	493.0	ug/L	-1	20	
Molybdenum	A	500.0	527.6	ug/L	6	20	
Nickel	A	1000	910.2	ug/L	-9	20	
Selenium	A	500.0	489.5	ug/L	-2	20	
Silver	A	1000	1043	ug/L	4	20	
Thallium	A	500.0	455.1	ug/L	-9	20	
Titanium	A	20000	19350	ug/L	-3		
Vanadium	A	500.0	512.9	ug/L	3	20	
Zinc	A	1000	949.8	ug/L	-5	20	
Aluminum	R	500000	470800	ug/L	-6		
Calcium	R	500000	443200	ug/L	-11		
Iron	R	200000	174200	ug/L	-13		
Magnesium	R	500000	452200	ug/L	-10		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2546702	-15.36

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642049 File : 103107cr Time : 31-OCT-2007 17:51
Cal : 97438642001 Caldate : 31-OCT-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.457	19.326	5000	5022	ug/L	0	10	
Arsenic	A	10.838	11.047	5000	5159	ug/L	3	10	
Barium	A	102.59	104.19	5000	5197	ug/L	4	10	
Beryllium	A	4866.6	5038.6	500.0	515.5	ug/L	3	10	
Boron	A	213.46	226.20	5000	5196	ug/L	4	10	
Cadmium	A	169.87	169.50	5000	5030	ug/L	1	10	
Chromium	A	172.57	180.82	5000	5036	ug/L	1	10	
Cobalt	A	59.947	59.493	5000	4933	ug/L	-1	10	
Copper	A	206.25	211.79	5000	5095	ug/L	2	10	
Lead	A	53.918	55.469	5000	4953	ug/L	-1	10	
Manganese	A	515.65	524.08	5000	5102	ug/L	2	10	
Molybdenum	A	43.939	43.118	5000	5034	ug/L	1	10	
Nickel	A	85.380	89.392	5000	5041	ug/L	1	10	
Selenium	A	15.135	13.955	5000	5018	ug/L	0	10	
Silver	A	562.59	538.33	1000	993.1	ug/L	-1	10	
Thallium	A	11.112	10.862	5000	5041	ug/L	1	10	
Tin	A	19.243	19.661	5000	4962	ug/L	-1	10	
Titanium	A	762.68	780.87	5000	5127	ug/L	3	10	
Vanadium	A	208.03	222.52	5000	5072	ug/L	1	10	
Zinc	A	99.906	87.869	5000	4993	ug/L	0	10	
Aluminum	R	0.7839	0.8184	20000	20140	ug/L	1	10	
Calcium	R	8.3790	8.6273	20000	20340	ug/L	2	10	
Iron	R	2.5078	2.5787	20000	20060	ug/L	0	10	
Magnesium	R	1.2931	1.3653	20000	20730	ug/L	4	10	
Potassium	R	2.8514	2.6935	20000	19820	ug/L	-1	10	
Sodium	R	316.50	320.74	20000	20210	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2831769	-5.88

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97438642051 File : 103107cr Time : 31-OCT-2007 17:58
Cal : 97438642001 Caldate : 31-OCT-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[4.778]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[2.243]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2779]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[2.077]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.6365]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.953]	5.000	0.3034	ug/L	!ib
Copper	A	[1.757]	5.000	0.8535	ug/L	!ib
Lead	A	[1.926]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.466]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.874]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.619]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	[0.9148]	5.000	0.7459	ug/L	!ib
Thallium	A	[3.966]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.456]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.247]	5.000	1.034	ug/L	!ib
Zinc	A	[2.004]	20.00	0.8377	ug/L	!ib
Aluminum	R	[22.48]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[20.51]	100.0	6.086	ug/L	!ib
Magnesium	R	[19.13]	200.0	10.47	ug/L	!ib
Potassium	R	[90.59]	500.0	39.71	ug/L	!ib
Sodium	R	[27.02]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3008815	2967508	-1.37

!=warning ib=instrument blank

97438642051

00467

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97438642 Instrument: MET09 PE ICP MET09 Begun: 31-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL		Stds Used	>LR
01	103107cr	ICALBLK				31-OCT-2007 14:42	1.0	1.0					
02	103107cr	ICAL	CRIM08			31-OCT-2007 14:46	1.0	1.0				1	
03	103107cr	ICAL	CS100			31-OCT-2007 14:50	1.0	1.0				2	
04	103107cr	ICAL	CS1K			31-OCT-2007 14:52	1.0	1.0				3	
05	103107cr	ICAL	CS10K			31-OCT-2007 14:55	1.0	1.0				4	
06	103107cr	ICAL	CS100K			31-OCT-2007 14:58	1.0	1.0				5	
07	103107cr	ICV				31-OCT-2007 15:00	1.0	1.0			5000	6	
08	103107cr	ICB				31-OCT-2007 15:07	1.0	1.0			5000		
09	103107cr	ICSA				31-OCT-2007 15:11	1.0	1.0			5000	7	10:AL=474527
10	103107cr	ICSAB				31-OCT-2007 15:33	1.0	1.0			5000	8	5:AL=461072
11	103107cr	BLANK	QC413143	131164	WET Le	31-OCT-2007 15:36	10.0	5.0	1		5000		1:NA=173908
12	103107cr	BS	QC413144	131164	WET Le	31-OCT-2007 15:40	1.0	1.0			5000		
13	103107cr	BSD	QC413145	131164	WET Le	31-OCT-2007 15:42	1.0	1.0			5000		
14	103107cr	MSS	198776-001	131164	WET Le	31-OCT-2007 15:45	10.0	5.0	1		5000		1:NA=162142
15	103107cr	MS	QC413146	131164	WET Le	31-OCT-2007 15:48	10.0	5.0		1	5000		1:NA=166630
16	103107cr	MSD	QC413147	131164	WET Le	31-OCT-2007 15:51	10.0	5.0		1	5000		1:NA=165474
17	103107cr	ICSAB				31-OCT-2007 15:54	1.0	1.0			5000	8	5:AL=468001
18	103107cr	X	RINSE			31-OCT-2007 15:57	1.0						
19	103107cr	CCV				31-OCT-2007 16:01	1.0	1.0			5000	9	
20	103107cr	X	FLUSH			31-OCT-2007 16:03	1.0						
21	103107cr	CCB				31-OCT-2007 16:07	1.0	1.0			5000		
22	103107cr	SAMPLE	198785-001	131164	WET Le	31-OCT-2007 16:11	10.0	5.0			5000		1:NA=163322
23	103107cr	SAMPLE	198786-001	131164	WET Le	31-OCT-2007 16:15	10.0	5.0			5000		1:NA=181274
24	103107cr	SAMPLE	198786-002	131164	WET Le	31-OCT-2007 16:19	10.0	5.0			5000		1:NA=190831
25	103107cr	ICSAB				31-OCT-2007 16:23	1.0	1.0			5000	8	5:AL=409306
26	103107cr	X	RINSE			31-OCT-2007 16:26	1.0						
27	103107cr	CCV				31-OCT-2007 16:30	1.0	1.0			5000	9	
28	103107cr	X	FLUSH			31-OCT-2007 16:33	1.0						
29	103107cr	CCB				31-OCT-2007 16:37	1.0	1.0			5000		
30	103107cr	SER	QC413148	131164	WET Le	31-OCT-2007 16:45	50.0	5.0			5000		
31	103107cr	PDS	QC413149	131164	WET Le	31-OCT-2007 16:48	10.0	5.0			5000	10 11	1:NA=180985

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 10/31/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97438642 Instrument: MET09 PE ICP MET09 Begun: 31-OCT-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
32	103107cr	SAMPLE	198818-002	131130	Soil	31-OCT-2007 16:50	10.0	47.62	1	5000		
33	103107cr	X	RINSE			31-OCT-2007 16:53	1.0					
34	103107cr	BLANK	QC413080	131150	Water	31-OCT-2007 16:57	1.0	1.0		5000		
35	103107cr	BS	QC413081	131150	Water	31-OCT-2007 17:01	1.0	1.0		5000		
36	103107cr	BSD	QC413082	131150	Water	31-OCT-2007 17:04	1.0	1.0		5000		
37	103107cr	MSS	198818-008	131150	Water	31-OCT-2007 17:07	1.0	1.0		5000		
38	103107cr	MS	QC413083	131150	Water	31-OCT-2007 17:11	1.0	1.0		5000		
39	103107cr	MSD	QC413084	131150	Water	31-OCT-2007 17:14	1.0	1.0		5000		
40	103107cr	X	RINSE			31-OCT-2007 17:17	1.0					
41	103107cr	CCV				31-OCT-2007 17:21	1.0	1.0		5000	9	
42	103107cr	X	FLUSH			31-OCT-2007 17:23	1.0					
43	103107cr	CCB				31-OCT-2007 17:27	1.0	1.0		5000		
44	103107cr	SER	QC413085	131150	Water	31-OCT-2007 17:31	5.0	1.0	1	5000		
45	103107cr	X	QC413086	131150	Water	31-OCT-2007 17:35	1.0	1.0	11	5000	12 13	
46	103107cr	PDS	QC413086	131150	Water	31-OCT-2007 17:41	1.0	1.0		5000	12 13	
47	103107cr	ICSAB				31-OCT-2007 17:44	1.0	1.0		5000	8	5:AL=470822
48	103107cr	X	RINSE			31-OCT-2007 17:48	1.0					
49	103107cr	CCV				31-OCT-2007 17:51	1.0	1.0		5000	9	
50	103107cr	X	FLUSH			31-OCT-2007 17:54	1.0					
51	103107cr	CCB				31-OCT-2007 17:58	1.0	1.0		5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 10/31/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198818 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
198818-001	MET09	10/30/07 23:04	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198818-001	MET04	10/31/07 15:54	1.0										+							
198818-002	MET09	10/30/07 23:08	1.0	+	+		+	+	+	+	+	+			+	+	+	+	+	+
198818-002	MET09	10/31/07 00:25	1.0											+						
198818-002	MET09	10/31/07 14:02	10.0																	
198818-002	MET04	10/31/07 15:56	1.0										+							
198818-002	MET09	10/31/07 16:50	10.0			+														
198818-003	MET09	10/30/07 23:12	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198818-003	MET09	10/31/07 00:28	1.0																	
198818-003	MET04	10/31/07 15:58	1.0																	
198818-003	MET04	10/31/07 16:42	20.0										+							
198818-003	MET04	10/31/07 16:44	20.0																	
198818-004	MET09	10/30/07 22:22	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198818-004	MET09	10/30/07 22:52	1.0	+																
198818-004	MET04	10/31/07 15:23	1.0										+							
198818-005	MET09	10/30/07 23:15	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198818-005	MET04	10/31/07 16:01	1.0																	
198818-005	MET04	10/31/07 16:37	20.0										+							
198818-006	MET09	10/30/07 23:18	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198818-006	MET04	10/31/07 16:04	1.0										+							
198818-007	MET09	10/30/07 23:43	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198818-007	MET04	10/31/07 16:06	1.0																	
198818-007	MET04	10/31/07 16:53	5.0										+							
198818-007	MET09	11/06/07 12:12	1.0																	
198818-010	MET09	10/30/07 23:46	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198818-010	MET04	10/31/07 15:51	1.0										+							
QC413007	MET09	10/30/07 22:14	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413008	MET09	10/30/07 22:18	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413009	MET09	10/30/07 22:20	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413010	MET09	10/30/07 22:25	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413011	MET09	10/30/07 22:28	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413012	MET09	10/30/07 22:31	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413013	MET09	10/30/07 22:34	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198818 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN	
QC413107	MET04	10/31/07 15:17	1.0										+								
QC413108	MET04	10/31/07 15:19	1.0										+								
QC413109	MET04	10/31/07 15:21	1.0										+								
QC413110	MET04	10/31/07 17:28	5.0										+								
QC413111	MET04	10/31/07 15:28	1.0										+								
QC413112	MET04	10/31/07 15:30	1.0										+								

Curtis & Tompkins Laboratories Sample Preparation Summary 01-NOV-2007 08:13

Batch Number : 131130
Date Extracted: 30-OCT-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198810-001			ConocoPhillips Company	Miscell.	1.02	g	50	49.019608	1				V		
198810-002			ConocoPhillips Company	Miscell.	1.04	g	50	48.076923	1				V		
198811-001			MWH	Soil	1.02	g	50	49.019608	1				PB		
198811-002			MWH	Soil	1.1	g	50	45.454545	1				PB		
198811-003			MWH	Soil	1.02	g	50	49.019608	1				PB		
198818-001			Mactec, Inc.	Soil	1.1	g	50	45.454545	1				T26/ICP		
198818-002			Mactec, Inc.	Soil	1.05	g	50	47.619048	1				T26/ICP		
198818-003			Mactec, Inc.	Soil	1.05	g	50	47.619048	1				T26/ICP		
198818-004			Mactec, Inc.	Soil	1.06	g	50	47.169811	1				T26/ICP		
198818-005			Mactec, Inc.	Soil	1	g	50	50.000000	1				T26/ICP		
198818-006			Mactec, Inc.	Soil	1.05	g	50	47.619048	1				T26/ICP		
198818-007			Mactec, Inc.	Soil	1.05	g	50	47.619048	1				T26/ICP		
198818-010			Mactec, Inc.	Soil	1.12	g	50	44.642857	1				T26/ICP		
QC413007	BLANK			Soil	1	g	50	50.000000	1				ICAP		
QC413008	BS			Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC413009	BSD			Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC413010	MS	of 198818-004		Soil	1.11	g	50	45.045045	1	.5	.5		ICAP		
QC413011	MSD	of 198818-004		Soil	1.01	g	50	49.504950	1	.5	.5		ICAP		
QC413012	SER	of 198818-004		Soil	1.06	g	50	47.169811	1				ICAP		
QC413013	PDS	of 198818-004		Soil	1.06	g	50	47.169811	1				ICAP		

Prep Chemist: N for C.B. 11-1-07 Reviewed By: N Date: 11-1-07

Relinquished By: Received By: N for N.M Date: 11-1-07

00172

Soil Digestion for ICP & ICP-MS 6:40 PM Curtis & Tompkins, Ltd.

LIMS Batch #: 131130
Date Digested: 10/30/07
Digested by: MCB III

Digestion Method
☑ EPA 3050b
☐ _____

BK 2606
Page 9

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	Ø	50	Y	
BS	↓	↓	↓	
BSD	↓	↓	↓	
MS-818-004 J	1.11			
MSD-818-004	1.01			
198818-004	1.06			
-005 D	1.10			
-002	1.05			
-003	1.05			
-006	~~1.00~~ 1.05			
-007	1.05			
~~198817-007~~ A 198818-10	1.12			
198810-001 A.B.C	1.02			~~198~~810-001 1SA COMP OF 3 JARS 2050g
-002	1.04			-002
198811-001 A	1.02			
-002	1.10			
-003	1.02			
198818-005 D	1.00			

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	MCB III 10/30/07
5 mL of spike solution was added to all spikes	S6918	
	S6919	
1:1 HNO3	E17044 J.T. BAKER	
concentrated HNO3	E26035	
3mL 30% hydrogen peroxide	E26A05	
concentrated HCl	E21053	
☒ filtered thru' Whatman # 541	01910096	
Relinquished to ICP group		

Approved C Brock III 10/30/07

Continued from page 1
Continued on page _____

10/31/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

st : MET04
lnum : 47438656001
its : ug/L

Date : 31-OCT-2007 14:56
X Axis : R

Reviewer : ---
Type : SOIL

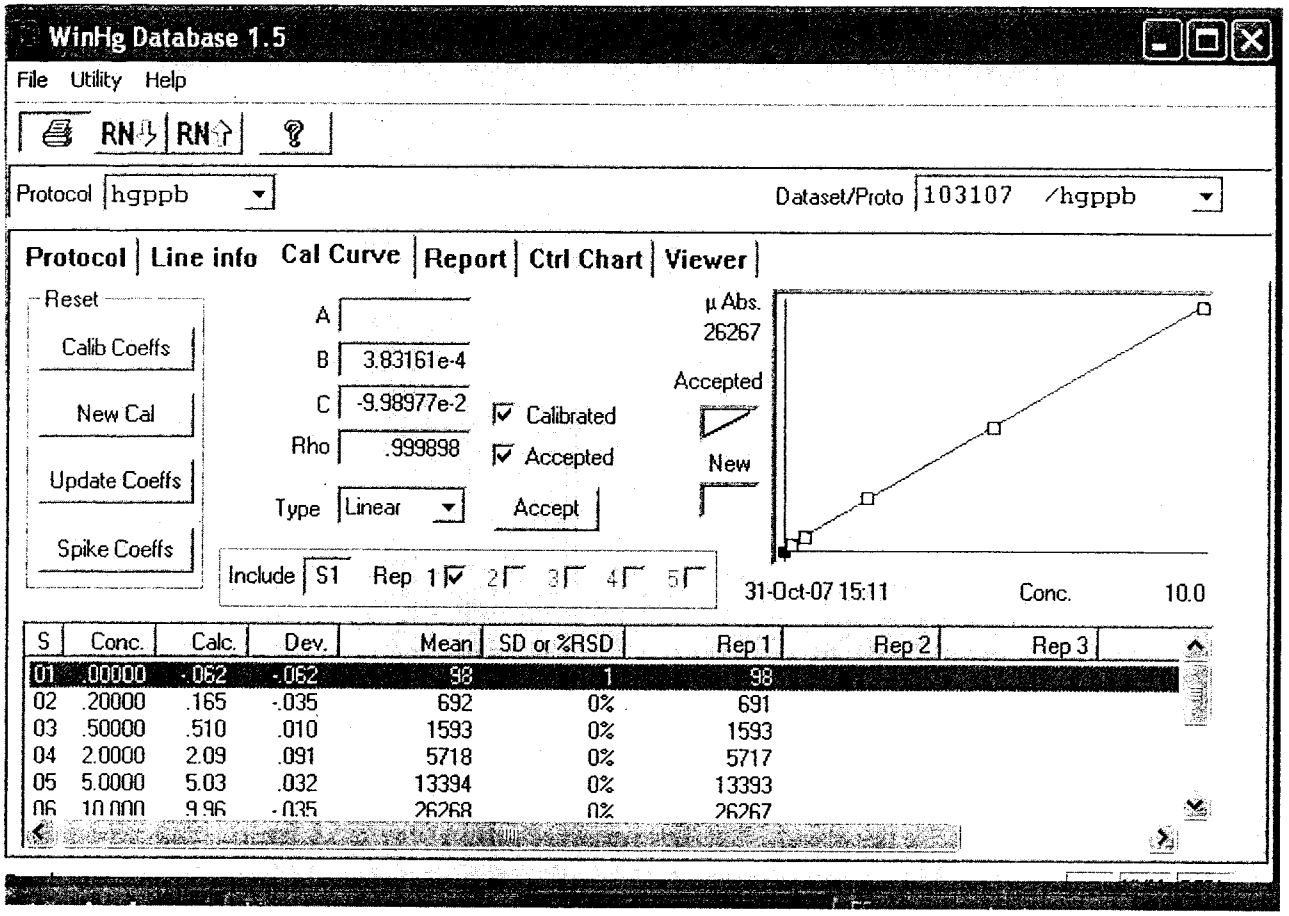
vel	File	Seqnum	Sample ID	Analyzed	Stds
1	131157	47438656002	STD02REP1	31-OCT-2007 14:59	S7570 (500X)
2	131157	47438656003	STD03REP1	31-OCT-2007 15:01	S7570 (200X)
3	131157	47438656004	STD04REP1	31-OCT-2007 15:04	S7570 (50X)
4	131157	47438656005	STD05REP1	31-OCT-2007 15:06	S7570 (20X)
5	131157	47438656006	STD06REP1	31-OCT-2007 15:08	S7570 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	3455.0	3186.0	2858.5	2678.6	2626.7	LINR	-0.0999	3.83E-4		2961.0	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.200	-18	0.500	2	2.000	5	5.000	1	10.00	0

rument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

47438656001


WinHg Database 1.5
File Utility Help
RN
RN
Protocol hgppb
Dataset/Proto 103107 /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 3.83161e-4
C -9.98977e-2
Rho .999898
Type Linear
Calibrated
Accepted
Accept
µ Abs.
26267
Accepted
New
Include S1 Rep 1 2 3 4 5
31-Oct-07 15:11
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.062 -.062 98 1 98
02 .20000 .165 -.035 692 0% 691
03 .50000 .510 .010 1593 0% 1593
04 2.0000 2.09 .091 5718 0% 5717
05 5.0000 5.03 .032 13394 0% 13393
06 10.000 9.96 -.035 26268 0% 26267

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		14:56:37 31 Oct 07			HG
Hg	.000	ppb	98						
		Bkgd 1	16946906						= =
*** Standard: 2 Rep: 1				Seq: 2		14:59:03 31 Oct 07			HG
Hg	.200	ppb	691						
		Bkgd 1	16948608						= =
*** Standard: 3 Rep: 1				Seq: 3		15:01:57 31 Oct 07			HG
Hg	.500	ppb	1593						
		Bkgd 1	16941146						= =
*** Standard: 4 Rep: 1				Seq: 4		15:04:05 31 Oct 07			HG
Hg	2.00	ppb	5717						
		Bkgd 1	16936019						= =
*** Standard: 5 Rep: 1				Seq: 5		15:06:21 31 Oct 07			HG
Hg	5.00	ppb	13393						
		Bkgd 1	16928268						= =
*** Standard: 6 Rep: 1				Seq: 6		15:08:49 31 Oct 07			HG
Hg	10.0	ppb	26267						
		Bkgd 1	16920917						= =
*** Check Standard: 2			Ck2s7572	Seq: 7		15:13:12 31 Oct 07			HG
Line	Flag		Intensities						
Hg			13909						
		Bkgd 1	16919119						= =
*** Check Standard: 1			Ck1ICB	Seq: 8		15:15:15 31 Oct 07			HG
Line	Flag		Intensities						
Hg			75						
		Bkgd 1	16912406						= =
*** Sample ID: qc413107				Seq: 9		15:17:17 31 Oct 07			HG
			131157,1						
Hg	-.056	ppb	115						
		Bkgd 1	16916520						= =

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47438656 Instrument: MET04 HydraAA HG Analyzer Begun: 31-OCT-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131157	ICALBLK	STD01REP1				31-OCT-2007 14:56	1.0	1.0									
131157	ICAL	STD02REP1				31-OCT-2007 14:59	1.0	1.0									
131157	ICAL	STD03REP1				31-OCT-2007 15:01	1.0	1.0									
131157	ICAL	STD04REP1				31-OCT-2007 15:04	1.0	1.0									
131157	ICAL	STD05REP1				31-OCT-2007 15:06	1.0	1.0									
131157	ICAL	STD06REP1				31-OCT-2007 15:08	1.0	1.0									
131157	ICV					31-OCT-2007 15:13	1.0	1.0	2	5.000	47438656001	5.230		ug/L	105		
131157	ICB					31-OCT-2007 15:15	1.0	1.0			47438656001	ND	0.20	ug/L			
131157	BLANK	QC413107		131157	Soil	31-OCT-2007 15:17	1.0	100.0			47438656001	ND	0.020	mg/Kg			u
131157	BS	QC413108		131157	Soil	31-OCT-2007 15:19	1.0	100.0		0.5000	47438656001	0.4980	0.020	mg/Kg	100		u
131157	BSD	QC413109		131157	Soil	31-OCT-2007 15:21	1.0	100.0		0.5000	47438656001	0.5190	0.020	mg/Kg	104	4	u
131157	MSS	198818-004		131157	Soil	31-OCT-2007 15:23	1.0	87.72			47438656001	0.18	0.020	mg/Kg			u
131157	MS	QC413111	198818-004	131157	Soil	31-OCT-2007 15:28	1.0	96.15		0.4808	47438656001	0.7019	0.020	mg/Kg	108		u
131157	MSD	QC413112	198818-004	131157	Soil	31-OCT-2007 15:30	1.0	96.15		0.4808	47438656001	0.7058	0.020	mg/Kg	108	1	u
131157	SAMPLE	198759-001		131157	Soil	31-OCT-2007 15:33	1.0	92.59			47438656001	0.099	0.020	mg/Kg			u
131157	SAMPLE	198775-023		131157	Soil	31-OCT-2007 15:35	1.0	90.91			47438656001	0.030	0.020	mg/Kg			u
131157	SAMPLE	198775-025		131157	Soil	31-OCT-2007 15:38	1.0	100.0			47438656001	0.025	0.020	mg/Kg			u
131157	CCV					31-OCT-2007 15:40	1.0	1.0	3	2.500	47438656001	2.470		ug/L	99		
131157	CCB					31-OCT-2007 15:42	1.0	1.0			47438656001	ND	0.20	ug/L			
131157	SAMPLE	198775-026		131157	Soil	31-OCT-2007 15:44	1.0	98.04			47438656001	0.034	0.020	mg/Kg			u
131157	SAMPLE	198778-001		131157	Miscel	31-OCT-2007 15:46	1.0	100.0			47438656001	15 >LR	0.020	mg/Kg			>LR cal
131157	SAMPLE	198817-001		131157	Soil	31-OCT-2007 15:51	1.0	108.7			47438656001	ND	0.022	mg/Kg			u
131157	SAMPLE	198818-001		131157	Soil	31-OCT-2007 15:54	1.0	73.53			47438656001	0.39	0.020	mg/Kg			u
131157	SAMPLE	198818-002		131157	Soil	31-OCT-2007 15:56	1.0	86.21			47438656001	0.64	0.020	mg/Kg			u
131157	SAMPLE	198818-003		131157	Soil	31-OCT-2007 15:58	1.0	87.72			47438656001	11 >LR	0.020	mg/Kg			>LR cal
131157	MSS	198818-005		131157	Soil	31-OCT-2007 16:01	1.0	79.37			47438656001	8.9 >LR	0.020	mg/Kg			>LR cal
131157	SAMPLE	198818-006		131157	Soil	31-OCT-2007 16:04	1.0	100.0			47438656001	ND	0.020	mg/Kg			u
131157	SAMPLE	198818-007		131157	Soil	31-OCT-2007 16:06	1.0	90.91			47438656001	1.5 >LR	0.020	mg/Kg			>LR b*
131157	CCV					31-OCT-2007 16:08	1.0	1.0	4	5.000	47438656001	4.840		ug/L	97		
131157	CCB					31-OCT-2007 16:11	1.0	1.0			47438656001	ND	0.20	ug/L			
131157	SAMPLE	198825-005		131157	Soil	31-OCT-2007 16:13	1.0	96.15			47438656001	0.25	0.020	mg/Kg			u
131157	SAMPLE	198829-007		131157	Soil	31-OCT-2007 16:16	1.0	98.04			47438656001	0.065	0.020	mg/Kg			u
131157	SAMPLE	198829-010		131157	Soil	31-OCT-2007 16:18	1.0	80.65			47438656001	0.51	0.020	mg/Kg			u
131157	SAMPLE	198829-015		131157	Soil	31-OCT-2007 16:20	1.0	86.21			47438656001	0.32	0.020	mg/Kg			u
131157	SAMPLE	198829-017		131157	Soil	31-OCT-2007 16:22	1.0	100.0			47438656001	0.29	0.020	mg/Kg			u
131157	SAMPLE	198778-001		131157	Miscel	31-OCT-2007 16:33	20.0	100.0			47438656001	15	0.40	mg/Kg			u
131157	SAMPLE	198818-005		131157	Soil	31-OCT-2007 16:37	20.0	79.37			47438656001	8.0	0.32	mg/Kg			u
131157	SAMPLE	198818-003		131157	Soil	31-OCT-2007 16:42	20.0	87.72			47438656001	8.5	0.35	mg/Kg			u
131157	SAMPLE	198818-003		131157	Soil	31-OCT-2007 16:44	20.0	87.72			47438656001	9.4	0.35	mg/Kg			
131157	SAMPLE	198818-007		131157	Soil	31-OCT-2007 16:53	5.0	90.91			47438656001	1.3	0.091	mg/Kg			u
131157	CCV					31-OCT-2007 16:55	1.0	1.0	3	2.500	47438656001	2.490		ug/L	100		
131157	CCB					31-OCT-2007 16:57	1.0	1.0			47438656001	ND	0.20	ug/L			
131157	SAMPLE	198778-002		131157	Miscel	31-OCT-2007 17:11	100.0	76.92			47438656001	240 >LR	1.5	mg/Kg			>LR b*

Standards used: 1=S7570 2=S7572 3=S7573 4=S7574 5=S7575
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 10/31/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

uence: 47438656 Instrument: MET04 HydraAA HG Analyzer Begun: 31-OCT-2007
lytical Method: EPA 7470A SOP Version: HG_water_rv7
lyte: Mercury

ilename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
31157	CCV					31-OCT-2007 17:13	1.0	1.0	4	5.000	47438656001	5.020		ug/L	100		
31157	CCB					31-OCT-2007 17:15	1.0	1.0			47438656001	[0.006000]	0.20	ug/L			
31157	SAMPLE	198778-002		131157	Miscel	31-OCT-2007 17:18	500.0	76.92			47438656001	240	7.7	mg/Kg			u
31157	CCV					31-OCT-2007 17:21	1.0	1.0	4	5.000	47438656001	4.960		ug/L	99		
31157	CCB					31-OCT-2007 17:24	1.0	1.0			47438656001	ND	0.20	ug/L			
31157	SER	QC413110	198818-004	131157	Soil	31-OCT-2007 17:28	5.0	87.72			47438656001	0.18	0.088	mg/Kg		--	u
31157	SAMPLE	198778-002		131157	Miscel	31-OCT-2007 17:31	1.0	76.92			47438656001	49 >LR	0.020	mg/Kg			>LR cal
31157	CCV					31-OCT-2007 17:37	1.0	1.0	5	7.500	47438656001	7.360		ug/L	98		
31157	CCB					31-OCT-2007 17:39	1.0	1.0			47438656001	ND	0.20	ug/L			

s used: 1=S7570 2=S7572 3=S7573 4=S7574 5=S7575
gs used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 10/31/07

Curtis & Tompkins Laboratories Sample Preparation Summary 01-NOV-2007 15:10

Batch Number : 131157
Date Extracted: 31-OCT-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7570
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198759-001			CH2M Hill Constructors Inc.	Soil	.54	g	50	92.592593 1					T26/HG		
198775-023			CH2M Hill	Soil	.55	g	50	90.909091 1					T26/HG		
198775-025			CH2M Hill	Soil	.5	g	50	100.000000 1					T26/HG		
198775-026			CH2M Hill	Soil	.51	g	50	98.039216 1					T26/HG		
198778-001			ConocoPhillips Company	Miscell.	.5	g	50	100.000000 1					T26/HG		
198778-002			ConocoPhillips Company	Miscell.	.65	g	50	76.923077 1					T26/HG		
198818-001			Mactec, Inc.	Soil	.68	g	50	73.529412 1					T26/HG		
198818-002			Mactec, Inc.	Soil	.58	g	50	86.206897 1					T26/HG		
198818-003			Mactec, Inc.	Soil	.57	g	50	87.719298 1					T26/HG		
198818-004			Mactec, Inc.	Soil	.57	g	50	87.719298 1					T26/HG		MSS
198818-005			Mactec, Inc.	Soil	.63	g	50	79.365079 1					T26/HG		
198818-006			Mactec, Inc.	Soil	.5	g	50	100.000000 1					T26/HG		
198818-007			Mactec, Inc.	Soil	.55	g	50	90.909091 1					T26/HG		
198818-010			Mactec, Inc.	Soil	.46	g	50	108.695652 1					T26/HG		
198825-005			URS Corporation	Soil	.52	g	50	96.153846 1					T26/HG		
198829-007			Ninyo & Moore	Soil	.51	g	50	98.039216 1					T26/HG		
198829-010			Ninyo & Moore	Soil	.62	g	50	80.645161 1					T26/HG		
198829-015			Ninyo & Moore	Soil	.58	g	50	86.206897 1					T26/HG		
198829-017			Ninyo & Moore	Soil	.5	g	50	100.000000 1					T26/HG		
198881-010			Kleinfelder	Soil		g		0.000000 1					HG		
QC413107	BLANK			Soil	.5	g	50	100.000000 1					HG		
QC413108	BS			Soil	.5	g	50	100.000000 1		2.5			HG		
QC413109	BSD			Soil	.5	g	50	100.000000 1		2.5			HG		
QC413110	SER	of 198818-004		Soil	.57	g	50	87.719298 1					HG		
QC413111	MS	of 198818-004		Soil	.52	g	50	96.153846 1		2.5			HG		
QC413112	MSD	of 198818-004		Soil	.52	g	50	96.153846 1		2.5			HG		

Prep Chemist: N for J.M 11.02 Reviewed By: N Date: 11/2

Relinquished By: _____ Received By: _____ Date: _____

Soil Digestion for Mercury — Curtis & Tompkins, Ltd.

LIMS Batch #: 13157
Date Digested: 10/31/07
Digested by: JXM

Digestion Method
☒ EPA 7471A
☐ _____

BK 2605
Page 10

	Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	198759-001 A	0.54	50.0	Y	
	198775-023	0.55			
	25	0.50			
	26	0.51			
5	198778-001	0.50			
	02	0.65			
	~~198817-001~~	0.46			
	198818-001 D	0.68			
	02	0.58			
10	03	0.57			
	04 K	0.57			MSS
	05 D	0.63			
	06	0.50			
	07	0.55			
15	198825-005	0.52			compod by KML 1+1@30g each
	198829-007 A	0.51			
	10	0.62			
	150	0.58			
	170	0.50			
20	MB QC 4 13107				
	BS 08				
	BSD 09				
	MS 11	0.52			
	MSD 12	0.52			
					JXM 10/31/07

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	57570	JXM 10/31/07
ICAL Source WS#	↓	
ICV / CCV WS#	575 12 / 731 / 4 / 15	
Digestion of Samples & Standards: Time ON / Temperature ON	13:00 / 95°C	
Time OFF/ Temperature OFF	13:30 / 95°C	
Aqua Regia Acids (HNO3+ HCl)	AR 103107	
5% $KMnO_4$	K 103107	
NaCl.hydroxylamine hydrochloride	Hy 101807	
Stannous Chloride	$SnCl_2$ 103007	
☐ filtered thru' 0.45 um syringe filter	R7 CN29662	↓

10/31/07
Prep Chemist / Date

Continued from page _____
Continued on page _____

10/31/07
Reviewed by / Date

Curtis & Tompkins, L

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	%	Analyzed:	10/31/07
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Batch#
1065EX350[4.0]	198818-001	20	1	131172
DUP103007	198818-002	21	1	131172
1065EX351[4.0]	198818-003	8	1	131172
1065EX352[4.0]	198818-004	17	1	131172
1065EX353[4.0]	198818-005	10	1	131172
1065EX355[4.0]	198818-006	14	1	131172
1065EX356[4.0]	198818-007	4	1	131172
1065EX354[4.0]	198818-010	12	1	131175

RL= Reporting Limit

93.0

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	198818	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Type:	SDUP	Sampled:	10/30/07
Matrix:	Soil	Received:	10/30/07
Units:	%	Analyzed:	10/31/07

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim	Batch#
1065EX352[4.0]	198818-004	QC413176	17.49	17.27	1.000	1	15	131172
1065EX354[4.0]	198818-010	QC413181	11.75	12.23	1.000	4	15	131175

RL= Reporting Limit
RPD= Relative Percent Difference

94.0

Percent Moisture Summary Report

Batch: 131172
Date: 10/31/07
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
198818-001	11.0051	19.9912	18.1761	80	20
198818-002	11.2187	19.4829	17.7667	79	21
198818-003	11.2368	19.8842	19.1733	92	8
198818-004	11.2672	20.4374	18.8338	83	17
198818-005	10.9531	18.9693	18.1573	90	10
198818-006	11.0702	19.9616	18.7526	86	14
198818-007	11.3368	16.9715	16.7237	96	4
198831-006	11.3235	17.7984	17.2472	91	9
198831-012	11.2871	17.1288	16.7854	94	6
198831-018	11.3188	16.0973	15.9344	97	3
198831-024	11.3214	20.4802	19.8356	93	7
198831-028	11.2974	16.9190	16.4059	91	9
198831-032	11.0967	19.8967	19.1204	91	9
198831-036	11.3801	19.7674	19.1856	93	7
198831-040	11.2625	19.7879	18.9793	91	9
198831-046	11.3795	18.3485	17.9817	95	5
198831-052	11.3289	20.3834	19.6061	91	9
198831-058	11.3326	17.4130	17.1020	95	5
198831-064	11.3484	17.9698	17.7687	97	3
198831-070	11.0500	19.4452	19.2159	97	3
QC413176	11.3529	20.7095	19.0936	83	17
of 198818-004			RPD:	0.3%	1.2%

MOISTURE

BK 2003

10 31 07

13172

SAMPLE	SL	DISH	DISH WT	SAMPLE WT	FINAL WT	COMMENTS
BLK	—	KC8	11.3152	∅	11.3152	
198818 - 001	D	B113	11.0051	19.9912	18.1761	
002		ED7	11.2187	19.4829	17.7667	
003		CD6	11.2368	10-31-07 19.8842	19.1735	
004		CT16	11.2672	20.4374	18.5538	
SEMP 004		KC7	11.3529	20.7095	19.0936	
005		DFW	10.9531	18.9693	18.1573	
006		B191	11.0702	19.9616	18.7526	
007		CT20	11.3368	16.9715	16.7232	ROCKS
198831 - 006	A	D33	11.3235	17.7984	17.247	comp (1-5) 10g crust
012		C29	11.2871	17.1288	16.7554	(7-11) 20g crust
018		EC9	11.3188	16.0973	15.9344	(13-17) 10g
024		AC3	11.3214	20.4802	19.8356	(19-23) 10g
028		CT22	11.2974	16.9710	16.4059	(25-27) 15g
032		B123	11.0967	19.8967 10-31-07	~~19.1809~~ 19.1809	(29-31) 15g
036		CT4	11.3801	19.7674	19.1856	(33-35) 15g
040		IC4	11.2625	19.7879	18.9793	(37-39) 15g
046		ED2	11.3795	18.3485	17.9817	(41-45) 10g
052		AC8	11.3289	20.3534	19.6061	(47-51)
058		D32	11.3326	17.4130	17.1020	(53-57)
064		B11	11.3484	17.9698	17.7687	(59-63)
070		B100	11.0500	19.4452	19.2159	(65-69)

TIME IN 8P

OUT 11AM

VOL TEMP 103°C

11-8-07

11-8-07

: 00485

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131172
Date Started: 31-OCT-2007
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
198818-001		Mactec, Inc.	Soil	MOISTURE	06-NOV-2007
198818-002		Mactec, Inc.	Soil	MOISTURE	06-NOV-2007
198818-003		Mactec, Inc.	Soil	MOISTURE	06-NOV-2007
198818-004		Mactec, Inc.	Soil	MOISTURE	06-NOV-2007
198818-005		Mactec, Inc.	Soil	MOISTURE	06-NOV-2007
198818-006		Mactec, Inc.	Soil	MOISTURE	06-NOV-2007
198818-007		Mactec, Inc.	Soil	MOISTURE	06-NOV-2007
198831-006		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-012		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-018		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-024		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-028		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-032		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-036		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-040		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-046		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-052		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-058		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-064		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198831-070		Shaw E&I	Soil	MOISTURE	01-NOV-2007
QC413176	SDUP of 198818-004		Soil	MOISTURE	

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Note: If temperature is outside range, adjust, recheck & document new temp.

Benchbook: **BK 1926**

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	TC	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	105°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	TC	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	TC	105°C
10-7-07	TC	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	TC	104°C
10-14-07	TC	104°C
10-15-07	VV	103°C
10-16-07	VV	104°C
10-17-07	VV	105°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	TC	105°C
10-21-07	TC	105°C
10-22-07	VV	105°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	TC	105°C
10-28-07	VV	103°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	VV	103°C
11-1-07	VV	103°C

Date	Initials	Temp (*C)

METTLER AE-200

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	WEIGHT
10-19-07	0.2000	1.0000	10.0000	50.0000	VV	35295
10-21-07	0.2000	1.0000	10.0000	50.0000	TC	35298
10-21-07	0.2000	1.0000	10.0000	50.0000	TC	35298
10-22-07	0.2000	1.0000	10.0000	50.0000	VV	35295
10-23-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-24-07	0.2000	1.0000	10.0000	50.0000	VV	35295
10-25-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-27-07	0.2000	1.0000	10.0000	50.0000	HC	35298
10-29-07	0.2000	1.0000	10.0000	50.0000	VV	35295
10-30-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-31-07	0.2000	1.0000	10.0000	50.0000	MW	35298
11-1-07	0.2000	1.0000	10.0000	50.0000	VV	35295

Percent Moisture Summary Report

Batch: 131175
Date: 10/31/07
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
198818-010	11.3796	20.0989	19.0743	88	12
198830-001	11.0599	16.4327	15.8240	89	11
198830-002	11.1065	17.6485	16.9866	90	10
198830-003	11.0617	16.5153	15.8267	87	13
198830-004	11.6166	18.3242	17.8133	92	8
198870-006	11.6679	19.1251	18.5917	93	7
198870-012	11.3241	17.8264	17.2491	91	9
198870-018	11.3237	16.5697	16.0587	90	10
198870-024	11.0915	18.6439	17.8560	90	10
198870-030	11.3721	18.2045	17.5475	90	10
198870-036	11.3358	18.3556	17.6943	91	9
198870-040	11.1432	17.8989	17.2194	90	10
198870-046	11.2596	18.0470	17.6044	93	7
198870-052	11.3895	19.3742	18.9500	95	5
198870-058	11.0506	17.6272	17.3183	95	5
198870-064	11.1397	17.6190	17.0743	92	8
198870-068	11.1676	19.9689	19.5644	95	5
198870-074	10.9200	17.1463	16.5030	90	10
198870-078	11.1053	19.0247	18.5316	94	6
QC413181	11.4363	20.5325	19.4199	88	12
of 198818-010			RPD:	0.5%	4.0%

PROJECT MOISTURE Notebook BK2603

10-31-07

BA 13/175

SAMPLE	SL	DISH	DISH WT	SAMPLE WT	FINAL WT	COMMENTS
BLK 198818-010	—	CT14	11.3260	Ø	11.3245	Fines 198818-010
~~198817-001~~	A	EO1	11.3796	20.0989	19.0743	
SDUP ~~001~~ WT Incorrect	↓	A10	11.4363	20.5325	19.4199	
198830-001	A	B105	11.0599	16.4327	15.8240	
002		51L	11.1065	17.6485	16.9866	
003		E8	11.0617	16.5153	15.8267	
004		ZAA	11.6166	18.3242	17.8133	
198870-006	A	AN5	11.6679	19.1251	18.5917	comp (1-5) @ 10g each
012		C28	11.3241	17.8264	17.2491	(7-11)
018		K01	11.3237	16.5697	16.0587	(13-17)
024		IV	11.0915	18.6439	17.8560	(19-23)
030		C25	11.3721	18.2045	17.5475	(25-29)
036		EO6	11.3358	18.3556	17.6943	(31-35)
040		B106	11.1432	17.8989	17.2194	(37-39)
046		C30	11.2596	18.0470	17.6044	(41-45)
052		EO8	11.3895	19.3742	18.9500	(47-51)
058		B119	11.0506	17.6272	17.3183	(53-57)
064		AAA	11.1397	17.6190	17.0743	(59-63)
068		XIII	11.1676	19.9689	19.5644	(65-67)
074		T2B	10.9200	17.1463	16.5050	(69-73)
078		CCC	11.1053	19.0247	18.5316	(75-77)

Time in SP

at 11 AM

oven temp 103°C

10-31-07

11/01/07

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131175
Date Started: 31-OCT-2007
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
198818-010		Mactec, Inc.	Soil	MOISTURE	06-NOV-2007
198830-001		Shaw E&I	Soil	MOISTURE	31-OCT-2007
198830-002		Shaw E&I	Soil	MOISTURE	31-OCT-2007
198830-003		Shaw E&I	Soil	MOISTURE	31-OCT-2007
198830-004		Shaw E&I	Soil	MOISTURE	31-OCT-2007
198870-006		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-012		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-018		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-024		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-030		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-036		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-040		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-046		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-052		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-058		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-064		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-068		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-074		Shaw E&I	Soil	MOISTURE	01-NOV-2007
198870-078		Shaw E&I	Soil	MOISTURE	01-NOV-2007
QC413181	SDUP of 198818-010		Soil	MOISTURE	

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	HO	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	105°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	HO	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HO	105°C
10-7-07	HO	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HO	104°C
10-14-07	HO	104°C
10-16-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HO	105°C
10-21-07	HO	105°C
10-22-07	VV	103°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	HO	105°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	MM	103°C
11-1-07	VV	103°C

Date	Initials	Temp (*C)

METTLER AE-2000

Notebook No. BK752

Continued from Page: Ø

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	WEIGHT SET
10-19-07	0.2000	1.0000	10.0000	50.0000	VV	35295
10-20-07	0.2000	1.0000	10.0000	50.0000	TO	35298
10-21-07	0.2000	1.0000	10.0000	50.0000	HO	35298
10-22-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-23-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-24-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-25-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-27-07	0.2000	1.0000	10.0000	50.0000	HO	35298
10-29-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-30-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-31-07	0.2000	1.0000	10.0000	50.0000	MO	35298
11-1-07	0.2000	1.0000	10.000	50.0000	VV	35298

Continued on Page:

Witnessed/Understood By:

Date Date Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 198879
ANALYTICAL REPORT

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065 Presidio
Petaluma, CA 94954	Level : III

Sample ID	Lab ID
1065DE210	198879-001
DUP103107	198879-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 11/16/2007
Project Manager

Signature: _____ Date: 11/19/2007
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198879**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**11/01/07**
Samples Received:	**11/01/07**

This hardcopy data package contains sample and QC results for two water samples, requested for the above referenced project on 11/01/07. The samples were received on ice and intact.

Metals (EPA 6010B and EPA 7470A):
No analytical problems were encountered.

Total Cyanide (SM4500CN-E):
No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Phenolic Compounds (EPA 420.1):
No analytical problems were encountered.

Dissolved Sulfide (SM4500S2-D):
No analytical problems were encountered.

pH (EPA 9040B):
No analytical problems were encountered.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

198879 3820

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Bldg 1063
CITY / STATE: San Francisco, CA ZIP:

SM4500CN E + SM312 D

PROJECT NAME: Bldg 1063 - Excavation 3
JOB NO.: 408807515 C2.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 10/31/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES including: VOCs (8260B) BTEX + Oxygenates; TPHd (8015M); TPHd + TPHmo (8015M) silica gel cleaned; PAHs (8270D-SIM); Title 22 Metals; Cyanide + Dissolved Sulfide; pH (150.1); Phenols (420.1); Oil & Grease (1664); TRPH (1664); Fluoride, cadmium, Chromium, Nickel, Silver, Zinc + Mercury	FOR LAB USE ONLY
830	X		SO	1065EX357[4]	-6N 8E-4' SW		7	X X X X X	
~~1045~~	~~X~~		~~SO~~	~~1065EX358[4]~~	~~-17N 10E-4' SW~~		~~4~~	~~X X X X X~~	
1430	X		W	1065DUP10	Holding Tank		7	X X X X X X X	
1435	X		W	DUP103107	Dup		7	X X X X X X X	
1015	X		SO	1065EX358[4]	-17N 10E-4' SW	No Encores - gravel	4	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	10/31 07 1500		1031 1400			

*MATRIX
WATER - W
OIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS
LVL 3 Data Validation
48 hr TAT on water samples - Standard TAT on Soil

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

0000

TRANSMITTAL

To: Steve Stanley
Curtis & Tompkins
(510) 486-0532

From: Scott Graham
MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, California 94954
(707) 793-3810 fax: (707) 793-3900
srgraham@mactec.com

Date: October 31, 2007

Subject: COCs for Today's sample pick up

Project Number: 4084075115 02.4

Please find the attached 2 Chain-of-Custody forms (3820 & 3821) for the samples picked up by your courier today. Please contact me with any questions.

Thanks,

Scott Graham

Steve Stanley

From: "Carlyon, Kristen" <KACARLYON@mactec.com>
To: "Heassler, Mary Jo" <MHeassler@mactec.com>; "Steve Stanley" <steve@ctberk.com>
Sent: Tuesday, November 06, 2007 6:25 AM
Subject: RE: Lab No. 198879 Bldg 1065 Presidio Rush results

Yes, I agree.

From: Heassler, Mary Jo
Sent: Monday, November 05, 2007 10:47 PM
To: Steve Stanley
Cc: Carlyon, Kristen
Subject: RE: Lab No. 198879 Bldg 1065 Presidio Rush results

If the metals results are really comparable, it probably wont make a difference. We can note it as a deviation. Kristen do you agree?

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Monday, November 05, 2007 8:40 PM
To: Heassler, Mary Jo
Subject: Re: Lab No. 198879 Bldg 1065 Presidio Rush results

Hi Mary Jo,

They can't begin digesting it until tomorrow now. They may be able to prep it and run it in the same day. I will ask them to do that. I was afraid you might need 200.7 to discharge. The reality, though, is that the results obtained by 6010 will be comparable to what we will get using 200.7. I'll have the metals group jump on it first thing in the morning.

Steve

Steven Stanley
Curtis & Tompkins, Ltd.
Client Services Dept. Manager
Direct Line: (510) 204-2226

> ----- Original Message -----
> **From:** Heassler, Mary Jo
> **To:** Steve Stanley
> **Cc:** Carlyon, Kristen
> **Sent:** Monday, November 05, 2007 6:29 PM
> **Subject:** RE: Lab No. 198879 Bldg 1065 Presidio Rush results
>
> Needs to be 220.7 and 245.1(c)
> analyzed for Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Silver, Zinc, and Mercury
> How much more time for this analysis as opposed to the 6010. the contractor is anxiously waiting the results as

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Monday, November 05, 2007 4:11 PM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Hart, Mary; Heassler, Mary Jo; Evans, Kathleen; Albrecht, Frederic
Subject: Lab No. 198879 Bldg 1065 Presidio Rush results

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 198879 Date Received: 10-31-07 Number of Coolers: 1
Client: ~~Presidio~~ Mactec Project: Presidio

A. Preliminary Examination Phase
Date Opened: 10-31-07 By (print): Faith Nichols (sign) Faith

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: Wet Ice
9. If required, was sufficient ice used? Samples should be <=6 degrees C. ..... (YES) NO
Type of ice: Wet Temperature: No temp blank, all cold
10. Were Encore sampling devices present in the cooler? ..... (YES) NO
If YES, enter time they were transferred to the freezer 1600

B. Login Phase
Date Logged In: 11-1-07 By (print): Faith Nichols (sign) Faith

1. Did all bottles arrive unbroken? ..... (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
3. Did bottle labels agree with custody papers? ..... (YES) NO
4. Were appropriate containers used for the tests indicated? ..... (YES) NO
5. Were correct preservatives added to samples? ..... (YES) NO
6. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below. ..... YES NO N/A
8. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, give details below.
Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS DATA

WATER

Curtis & Tompkins, Ltd.

Metals Analytical Report

Lab #:	198879	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065DE210	Diln Fac:	1.000
Lab ID:	198879-001	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Arsenic	13	5.0	1.4	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	0.36	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Chromium	15	5.0	0.33	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Copper	50	5.0	1.6	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Lead	54	3.4	1.1	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Mercury	ND	0.20	0.045	131249	11/02/07	11/02/07	METHOD	EPA 7470A
Nickel	16	5.0	0.65	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Silver	ND	5.0	0.75	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Zinc	200	20	3.1	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

4.0

Curtis & Tompkins, Ltd.

Metals Analytical Report

Lab #:	198879	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	DUP103107	Diln Fac:	1.000
Lab ID:	198879-002	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Arsenic	12	5.0	1.4	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	0.36	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Chromium	5.7	5.0	0.33	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Copper	23	5.0	1.6	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Lead	87	3.4	1.1	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Mercury	0.18 J	0.20	0.045	131249	11/02/07	11/02/07	METHOD	EPA 7470A
Nickel	8.6	5.0	0.65	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Silver	ND	5.0	0.75	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B
Zinc	120	20	3.1	131308	11/05/07	11/05/07	EPA 3010A	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	131249
Lab ID:	QC413454	Prepared:	11/02/07
Matrix:	Water	Analyzed:	11/02/07
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.045

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413668	Batch#:	131308
Matrix:	Water	Prepared:	11/05/07
Units:	ug/L	Analyzed:	11/05/07

Analyte	Result	RL	MDL
Arsenic	ND	5.0	1.4
Cadmium	ND	5.0	0.36
Chromium	ND	5.0	0.33
Copper	ND	5.0	1.6
Lead	ND	3.4	1.1
Nickel	ND	5.0	0.65
Silver	ND	5.0	0.75
Zinc	ND	20	3.1

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.0

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	131249
Matrix:	Water	Prepared:	11/02/07
Units:	ug/L	Analyzed:	11/02/07
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC413455	5.000	4.920	98	80-120		
BSD	QC413456	5.000	5.000	100	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	131308
Units:	ug/L	Prepared:	11/05/07
Diln Fac:	1.000	Analyzed:	11/05/07

Type: BS Lab ID: QC413669

Analyte	Spiked	Result	%REC	Limits
Arsenic	100.0	109.9	110	80-120
Cadmium	50.00	52.65	105	80-120
Chromium	200.0	201.3	101	80-120
Copper	250.0	246.4	99	80-120
Lead	100.0	97.57	98	80-120
Nickel	500.0	499.6	100	80-120
Silver	50.00	48.24	96	80-120
Zinc	500.0	517.8	104	80-120

Type: BSD Lab ID: QC413670

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Arsenic	100.0	111.8	112	80-120	2	20
Cadmium	50.00	52.30	105	80-120	1	20
Chromium	200.0	200.9	100	80-120	0	20
Copper	250.0	244.3	98	80-120	1	20
Lead	100.0	97.83	98	80-120	0	20
Nickel	500.0	495.5	99	80-120	1	20
Silver	50.00	47.70	95	80-120	1	20
Zinc	500.0	513.9	103	80-120	1	20

RPD= Relative Percent Difference

11.0

00014

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	131249
Field ID:	ZZZZZZZZZZ	Sampled:	10/31/07
MSS Lab ID:	198885-005	Received:	11/01/07
Matrix:	Water	Prepared:	11/02/07
Units:	ug/L	Analyzed:	11/02/07
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC413458	4.860	5.000	9.370	90	80-120		
MSD	QC413459		5.000	9.610	95	80-120	3	20

RPD= Relative Percent Difference

10.0

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065DE210	Batch#:	131308
MSS Lab ID:	198879-001	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Prepared:	11/05/07
Diln Fac:	1.000	Analyzed:	11/05/07

Type: MS Lab ID: QC413671

Analyte	MSS Result	Spiked	Result	%REC	Limits
Arsenic	12.75	100.0	128.6	116	80-120
Cadmium	<0.3555	50.00	52.55	105	80-120
Chromium	15.04	200.0	212.3	99	80-120
Copper	49.83	250.0	293.9	98	80-120
Lead	54.07	100.0	151.4	97	80-120
Nickel	15.72	500.0	493.6	96	80-120
Silver	<0.7500	50.00	48.98	98	80-120
Zinc	198.7	500.0	716.4	104	80-120

Type: MSD Lab ID: QC413672

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Arsenic	100.0	126.7	114	80-120	1	20
Cadmium	50.00	51.44	103	80-120	2	20
Chromium	200.0	213.0	99	80-120	0	20
Copper	250.0	299.5	100	80-120	2	20
Lead	100.0	152.2	98	80-120	1	20
Nickel	500.0	486.6	94	80-120	1	20
Silver	50.00	48.13	96	80-120	2	20
Zinc	500.0	716.6	104	80-120	0	20

RPD= Relative Percent Difference

12.0

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131249
MSS Lab ID:	198885-005	Sampled:	10/31/07
Lab ID:	QC413457	Received:	11/01/07
Matrix:	Water	Analyzed:	11/02/07

MSS Result	MSS RL	Result	RL	% Diff	Lim
4.860	0.2000	4.415	1.000	9	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065DE210	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131308
MSS Lab ID:	198879-001	Sampled:	10/31/07
Lab ID:	QC413673	Received:	11/01/07
Matrix:	Water	Analyzed:	11/05/07
Units:	ug/L		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Arsenic	12.75	5.000	27.47	25.00	NC	10
Cadmium	ND	5.000	ND	25.00	NC	10
Chromium	15.04	5.000	15.11 J	25.00	NC	10
Copper	49.83	5.000	49.41	25.00	NC	10
Lead	54.07	3.449	49.98	17.24	NC	10
Nickel	15.72	5.000	15.28 J	25.00	NC	10
Silver	ND	5.000	ND	25.00	NC	10
Zinc	198.7	20.00	185.8	100.0	7	10

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

13.0

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum : 87445470075
File : 110507r
IDF : 1.0
Lab ID : 198879-001
Matrix : Water
Batch : 131308
Time : 05-NOV-2007 12:27
Cal : 87445470001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum : 87445470079
File : 110507r
IDF : 1.0
Lab ID : QC413674
Matrix : Water
Batch : 131308
Time : 05-NOV-2007 12:39
Cal : 87445470001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S6920 (100X), S6921 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	11090	R	2000	12690	R	80	75-125	: u
Antimony	ND	A	500.0	518.1	A	104	75-125	u
Arsenic	12.75	A	100.0	127.4	A	115	75-125	u
Barium	107.5	A	2000	2150	A	102	75-125	u
Beryllium	0.5192	A	50.00	56.33	A	112	75-125	u
Cadmium	ND	A	50.00	52.48	A	105	75-125	u
Calcium	96190	R	20000	110400 >LR	R	71	75-125	: >LR u
Chromium	15.04	A	200.0	216.5	A	101	75-125	u
Cobalt	9.654	A	500.0	485.1	A	95	75-125	u
Copper	49.83	A	250.0	299.3	A	100	75-125	u
Iron	14720	R	1000	15110	R	39	75-125	: u
Lead	54.07	A	100.0	150.5	A	96	75-125	u y
Magnesium	31860	R	20000	49420	R	88	75-125	u
Manganese	679.4	A	50.00	712.1	A	65	75-125	: u
Molybdenum	6.027	A	400.0	427.7	A	105	75-125	u
Nickel	15.72	A	500.0	494.9	A	96	75-125	u
Potassium	2341	R	10000	11720	R	94	75-125	u
Selenium	5.559	A	100.0	113.0	A	107	75-125	u
Silver	ND	A	50.00	48.65	A	97	75-125	u
Thallium	ND	A	100.0	97.54	A	98	75-125	u
Vanadium	46.06	A	500.0	559.0	A	103	75-125	u
Zinc	198.7	A	500.0	708.0	A	102	75-125	u
Boron	2666	A	1000	3706	A	104	75-125	u
Tin	ND	A	1000	1019	A	102	75-125	u
Titanium	591.9	A	1000	1646	A	105	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3586725	3154969	-12.04

:=recovery not meaningful >LR=overrange u=use y=RL raised

87445470079

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87445470001
Units : ug/L

Date : 05-NOV-2007 08:30
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110507r	87445470002	CRIM08	05-NOV-2007 08:34	S7555
L2	110507r	87445470003	CS100	05-NOV-2007 08:38	S7382
L3	110507r	87445470004	CS1K	05-NOV-2007 08:41	S7381
L4	110507r	87445470005	CS10K	05-NOV-2007 08:44	S7383
L5	110507r	87445470006	CS100K	05-NOV-2007 08:47	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	27.338	29.077	29.102	30.164		LOR0	0.00000	0.03316		28.920	1.000	0.995	
Arsenic	A	15.607	18.554	18.182	18.092		LOR0	0.00000	0.05527		17.609	1.000	0.995	
Barium	A	444.99	445.48	433.51	424.08		LOR0	0.00000	0.00236		437.01	1.000	0.995	
Beryllium	A	3137.0	3067.0	3040.6			LOR0	0.00000	3.29E-4		3081.5	1.000	0.995	
Boron	A	148.03		149.51	157.11		LOR0	0.00000	0.00637		151.55	1.000	0.995	
Cadmium	A	215.11	220.76	219.41	215.65		LOR0	0.00000	0.00464		217.73	1.000	0.995	
Chromium	A	67.933	67.985	66.570	66.766		LOR0	0.00000	0.01498		67.314	1.000	0.995	
Cobalt	A	113.74	112.40	116.36	116.04		LOR0	0.00000	0.00862		114.64	1.000	0.995	
Copper	A	411.40	404.69	406.43	408.24		LOR0	0.00000	0.00245		407.69	1.000	0.995	
Lead	A	37.464	43.094	43.131	42.841		LOR0	0.00000	0.02334		41.632	1.000	0.995	
Manganese	A	1366.4	1366.2	1324.9	1273.7		LOR0	0.00000	7.85E-4		1332.8	1.000	0.995	
Molybdenum	A	38.010	37.756	36.579	36.887		LOR0	0.00000	0.02711		37.308	1.000	0.995	
Nickel	A	37.818	37.533	38.799	38.721		LOR0	0.00000	0.02583		38.218	1.000	0.995	
Selenium	A	26.794	27.732	27.253	28.741		LOR0	0.00000	0.03481		27.630	1.000	0.995	
Silver	A	381.77	475.31	468.31	480.10		LOR0	0.00000	0.00209		451.37	1.000	0.995	
Thallium	A	17.092	18.165	17.837	17.589		LOR0	0.00000	0.05685		17.671	1.000	0.995	
Tin	A	22.262	22.463	22.224	23.750		LOR0	0.00000	0.04213		22.675	1.000	0.995	
Titanium	A	1183.5	1237.5	1203.8	1178.5		LOR0	0.00000	8.48E-4		1200.8	1.000	0.995	
Vanadium	A	105.01	107.22	105.78	107.88		LOR0	0.00000	0.00927		106.47	1.000	0.995	
Zinc	A	139.75	85.167	79.333	80.262		LOR0	0.00000	0.01246		96.127	1.000	0.995	
Aluminum	R	1.5039		1.4330	1.3730	1.4485	LOR0	0.00000	0.69072		1.4396	1.000	0.995	
Calcium	R	15.868		15.862	14.885	15.745	LOR0	0.00000	0.06355		15.590	1.000	0.995	
Iron	R	13.279		12.948	12.112	12.926	LOR0	0.00000	0.07741		12.816	1.000	0.995	
Magnesium	R	2.1976		2.1822	2.0190	2.1327	LOR0	0.00000	0.46914		2.1329	1.000	0.995	
Potassium	R	4.3320		4.9462	4.5705	5.0277	LOR0	0.00000	0.19908		4.7191	1.000	0.995	
Sodium	R	11.147		11.472	10.734	11.253	LOR0	0.00000	0.08891		11.151	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-9	100.0	-4	1000	-3	10000	0		
Arsenic	A	5.000	-14	100.0	3	1000	0	10000	0		
Barium	A	5.000	5	100.0	5	1000	2	10000	0		
Beryllium	A	2.000	3	100.0	1	1000	0				
Boron	A	100.0	-6			1000	-5	10000	0		
Cadmium	A	5.000	0	100.0	2	1000	2	10000	0		
Chromium	A	5.000	2	100.0	2	1000	0	10000	0		
Cobalt	A	5.000	-2	100.0	-3	1000	0	10000	0		
Copper	A	5.000	1	100.0	-1	1000	0	10000	0		
Lead	A	3.000	-13	100.0	1	1000	1	10000	0		
Manganese	A	5.000	7	100.0	7	1000	4	10000	0		
Molybdenum	A	5.000	3	100.0	2	1000	-1	10000	0		
Nickel	A	5.000	-2	100.0	-3	1000	0	10000	0		
Selenium	A	5.000	-7	100.0	-3	1000	-5	10000	0		
Silver	A	5.000	-20	100.0	-1	1000	-2	2000	0		
Thallium	A	5.000	-3	100.0	3	1000	1	10000	0		
Tin	A	40.00	-6	100.0	-5	1000	-6	10000	0		
Titanium	A	10.00	0	100.0	5	1000	2	10000	0		
Vanadium	A	5.000	-3	100.0	-1	1000	-2	10000	0		
Zinc	A	20.00	74	100.0	6	1000	-1	10000	0		
Aluminum	R	100.0	4			1000	-1	10000	-5	100000	0
Calcium	R	200.0	1			1000	1	10000	-5	100000	0
Iron	R	100.0	3			1000	0	10000	-6	100000	0
Magnesium	R	200.0	3			1000	2	10000	-5	100000	0
Potassium	R	500.0	-14			1000	-2	10000	-9	100000	0
Sodium	R	500.0	-1			1000	2	10000	-5	100000	0

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/5/2007 8:30:41 AM
Data Type: Reprocessed on 11/5/2007 9:05:49 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1968.2	82.60	4.20%	[0.00]	ug/L
Al 308.215 R	-226.5	1.34	0.59%	[0.00]	ug/L
As 188.979	-52.0	11.60	22.32%	[0.00]	ug/L
B 249.677	192.9	28.39	14.72%	[0.00]	ug/L
Ba 233.527	3.0	2.55	85.07%	[0.00]	ug/L
Be 313.107	-909.5	110.68	12.17%	[0.00]	ug/L
Ca 315.887 R	467.0	29.25	6.26%	[0.00]	ug/L
Cd 214.440	65.0	7.11	10.93%	[0.00]	ug/L
Co 228.616	-408.4	9.09	2.23%	[0.00]	ug/L
Cr 267.716	-85.0	5.16	6.07%	[0.00]	ug/L
Cu 324.752	3703.1	31.86	0.86%	[0.00]	ug/L
Fe 238.204 R	142.3	6.90	4.85%	[0.00]	ug/L
K 766.490 R	207.8	216.60	104.25%	[0.00]	ug/L
Mg 279.077 R	18.9	3.77	19.89%	[0.00]	ug/L
Mn 257.610	439.3	9.25	2.11%	[0.00]	ug/L
Mo 202.031	-12.9	4.08	31.65%	[0.00]	ug/L
Na 589.592 R	-2941.4	97.34	3.31%	[0.00]	ug/L
Ni 231.604	-300.4	5.08	1.69%	[0.00]	ug/L
Pb 220.353	206.1	50.17	24.34%	[0.00]	ug/L
Sb 206.836	117.6	7.64	6.49%	[0.00]	ug/L
Se 196.026	-3.6	35.80	>999.9%	[0.00]	ug/L
Ti 334.940 R	146.5	101.82	69.52%	[0.00]	ug/L
Tl 190.801	-34.0	10.61	31.20%	[0.00]	ug/L
V 292.402	-154.3	8.87	5.75%	[0.00]	ug/L
Zn 206.200	693.1	3.64	0.52%	[0.00]	ug/L
Sn 189.927	-9.3	6.42	69.33%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/5/2007 8:34:39 AM
Data Type: Reprocessed on 11/5/2007 9:05:50 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3586724.6	32676.81	0.91%	100.0	%
Y	285603.0	469.96	0.16%	100.0	%
Ag 328.068†	1908.9	267.25	14.00%	[5.0]	ug/L
Al 308.215 R†	150.4	3.83	2.55%	[100]	ug/L
As 188.979†	78.0	21.41	27.44%	[5.0]	ug/L
B 249.677†	14803.2	391.88	2.65%	[100]	ug/L
Ba 233.527†	2225.0	21.94	0.99%	[5.0]	ug/L
Be 313.107†	6273.9	84.25	1.34%	[2.0]	ug/L
Ca 315.887 R†	3173.5	30.82	0.97%	[200]	ug/L
Cd 214.440†	1075.5	7.88	0.73%	[5.0]	ug/L
Co 228.616†	568.7	8.26	1.45%	[5.0]	ug/L
Cr 267.716†	339.7	9.31	2.74%	[5.0]	ug/L
Cu 324.752†	2057.0	109.98	5.35%	[5.0]	ug/L
Fe 238.204 R†	1327.9	8.77	0.66%	[100]	ug/L
K 766.490 R†	2166.0	232.69	10.74%	[500]	ug/L
Mg 279.077 R†	439.5	3.27	0.74%	[200]	ug/L
Mn 257.610†	6831.9	37.63	0.55%	[5.0]	ug/L
Mo 202.031†	190.0	1.62	0.85%	[5.0]	ug/L
Na 589.592 R†	5573.3	111.58	2.00%	[500]	ug/L
Ni 231.604†	189.1	3.46	1.83%	[5.0]	ug/L
Pb 220.353†	112.4	15.61	13.89%	[3.0]	ug/L
Sb 206.836†	136.7	26.29	19.23%	[5.0]	ug/L
Se 196.026†	134.0	49.53	36.97%	[5.0]	ug/L
Ti 334.940 R†	11835.1	94.79	0.80%	[10]	ug/L
Tl 190.801†	85.5	22.05	25.80%	[5.0]	ug/L
V 292.402†	525.0	5.53	1.05%	[5.0]	ug/L
Zn 206.200†	2794.9	23.33	0.83%	[20]	ug/L
Sn 189.927†	890.5	6.77	0.76%	[40]	ug/L

Sequence No.: 3 Autosampler Location: 3
Sample ID: ICAL,CS100 Date Collected: 11/5/2007 8:38:48 AM
Analyst: Data Type: Reprocessed on 11/5/2007 9:05:51 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3549550.7	50433.24	1.42%	98.96	%
Y	284757.7	5121.70	1.80%	99.70	%
Ag 328.068†	47530.7	801.87	1.69%	[100]	ug/L
As 188.979†	1855.4	13.89	0.75%	[100]	ug/L
Ba 233.527†	44548.0	1175.02	2.64%	[100]	ug/L
Be 313.107†	306700.2	814.32	0.27%	[100]	ug/L
Cd 214.440†	22076.2	460.42	2.09%	[100]	ug/L
Co 228.616†	11240.3	147.20	1.31%	[100]	ug/L
Cr 267.716†	6798.5	198.85	2.92%	[100]	ug/L
Cu 324.752†	40469.2	989.96	2.45%	[100]	ug/L
Mn 257.610†	136622.6	3286.45	2.41%	[100]	ug/L
Mo 202.031†	3775.6	37.63	1.00%	[100]	ug/L
Ni 231.604†	3753.3	52.77	1.41%	[100]	ug/L
Pb 220.353†	4309.4	130.06	3.02%	[100]	ug/L
Sb 206.836†	2907.7	37.56	1.29%	[100]	ug/L
Se 196.026†	2773.2	34.68	1.25%	[100]	ug/L
Ti 334.940 R†	123749.5	2731.84	2.21%	[100]	ug/L
Tl 190.801†	1816.5	23.60	1.30%	[100]	ug/L
V 292.402†	10721.8	196.70	1.83%	[100]	ug/L
Zn 206.200†	8516.7	134.00	1.57%	[100]	ug/L
Sn 189.927†	2246.3	29.97	1.33%	[100]	ug/L

Sequence No.: 4 Autosampler Location: 4
Sample ID: ICAL,CS1K Date Collected: 11/5/2007 8:41:45 AM
Analyst: Data Type: Reprocessed on 11/5/2007 9:05:52 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3595087.2	67252.46	1.87%	100.2	%
Y	282014.8	514.53	0.18%	98.74	%
Ag 328.068†	468308.9	6264.33	1.34%	[1000]	ug/L
Al 308.215 R†	1433.0	14.92	1.04%	[1000]	ug/L
As 188.979†	18182.5	323.82	1.78%	[1000]	ug/L
B 249.677†	149514.1	2894.64	1.94%	[1000]	ug/L
Ba 233.527†	433509.1	7282.38	1.68%	[1000]	ug/L
Be 313.107†	3040611.4	15251.55	0.50%	[1000]	ug/L
Ca 315.887 R†	15861.7	192.75	1.22%	[1000]	ug/L
Cd 214.440†	219405.1	3007.58	1.37%	[1000]	ug/L
Co 228.616†	116363.0	1839.96	1.58%	[1000]	ug/L
Cr 267.716†	66570.3	948.36	1.42%	[1000]	ug/L
Cu 324.752†	406433.6	6579.96	1.62%	[1000]	ug/L
Fe 238.204 R†	12948.4	226.80	1.75%	[1000]	ug/L
K 766.490 R†	4946.2	243.18	4.92%	[1000]	ug/L
Mg 279.077 R†	2182.2	45.41	2.08%	[1000]	ug/L
Mn 257.610†	1324886.7	3157.13	0.24%	[1000]	ug/L
Mo 202.031†	36578.7	796.28	2.18%	[1000]	ug/L
Na 589.592 R†	11472.3	271.64	2.37%	[1000]	ug/L
Ni 231.604†	38799.4	625.94	1.61%	[1000]	ug/L
Pb 220.353†	43130.8	987.86	2.29%	[1000]	ug/L
Sb 206.836†	29101.8	645.26	2.22%	[1000]	ug/L
Se 196.026†	27252.8	599.79	2.20%	[1000]	ug/L
Ti 334.940 R†	1203823.3	2850.32	0.24%	[1000]	ug/L
Tl 190.801†	17836.7	366.72	2.06%	[1000]	ug/L
V 292.402†	105779.1	1657.64	1.57%	[1000]	ug/L
Zn 206.200†	79332.6	1247.19	1.57%	[1000]	ug/L
Sn 189.927†	22224.2	438.66	1.97%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/5/2007 8:44:45 AM
Data Type: Reprocessed on 11/5/2007 9:05:53 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3423303.8	34809.17	1.02%	95.44	%
Y	289571.1	3655.35	1.26%	101.4	%
Ag 328.068†	960202.1	11729.05	1.22%	[2000]	ug/L
Al 308.215 R†	13729.7	265.60	1.93%	[10000]	ug/L
As 188.979†	180916.8	2076.77	1.15%	[10000]	ug/L
B 249.677†	1571106.8	17358.31	1.10%	[10000]	ug/L
Ba 233.527†	4240772.3	28031.59	0.66%	[10000]	ug/L
Ca 315.887 R†	148850.8	1718.62	1.15%	[10000]	ug/L
Cd 214.440†	2156489.9	20115.36	0.93%	[10000]	ug/L
Co 228.616†	1160355.7	10217.83	0.88%	[10000]	ug/L
Cr 267.716†	667664.0	7107.47	1.06%	[10000]	ug/L
Cu 324.752†	4082408.4	33584.12	0.82%	[10000]	ug/L
Fe 238.204 R†	121118.4	1339.53	1.11%	[10000]	ug/L
K 766.490 R†	45705.3	478.29	1.05%	[10000]	ug/L
Mg 279.077 R†	20189.5	160.28	0.79%	[10000]	ug/L
Mn 257.610†	12736893.1	101913.12	0.80%	[10000]	ug/L
Mo 202.031†	368874.5	4082.90	1.11%	[10000]	ug/L
Na 589.592 R†	107336.2	1586.56	1.48%	[10000]	ug/L
Ni 231.604†	387208.0	3298.87	0.85%	[10000]	ug/L
Pb 220.353†	428409.2	6836.61	1.60%	[10000]	ug/L
Sb 206.836†	301636.4	3321.50	1.10%	[10000]	ug/L
Se 196.026†	487413.5	5376.89	1.87%	[10000]	ug/L
Ti 334.940 R†	11784942.7	107735.64	0.91%	[10000]	ug/L
Tl 190.801†	175889.8	2809.94	1.60%	[10000]	ug/L
V 292.402†	1078829.0	9814.83	0.91%	[10000]	ug/L
Zn 206.200†	802616.5	5393.03	0.67%	[10000]	ug/L
Sn 189.927†	237496.4	2171.64	0.91%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/5/2007 8:47:48 AM
Data Type: Reprocessed on 11/5/2007 9:05:53 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	135.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3141368.4	8596.73	0.27%	87.58	%
Y	259629.0	3094.73	1.19%	90.91	%
Al 308.215 R†	144851.8	62.98	0.04%	[100000]	ug/L
Ca 315.887 R†	1574462.6	5609.80	0.36%	[100000]	ug/L
Fe 238.204 R†	1292631.3	3031.83	0.23%	[100000]	ug/L
K 766.490 R†	502769.2	479.11	0.10%	[100000]	ug/L
Mg 279.077 R†	213270.2	1249.99	0.59%	[100000]	ug/L
Na 589.592 R†	1125262.1	1747.26	0.16%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	477.7	0.00000	0.999951	
Al 308.215 R	4	Lin Thru 0	0.0	1.448	0.00000	0.999987	
As 188.979	4	Lin Thru 0	0.0	18.09	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	157.0	0.00000	0.999988	
Ba 233.527	4	Lin Thru 0	0.0	424.2	0.00000	0.999997	
Be 313.107	3	Lin Thru 0	0.0	3041	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	15.74	0.00000	0.999985	
Cd 214.440	4	Lin Thru 0	0.0	215.7	0.00000	0.999998	
Co 228.616	4	Lin Thru 0	0.0	116.0	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	66.76	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	408.2	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	12.92	0.00000	0.999981	
K 766.490 R	4	Lin Thru 0	0.0	5.023	0.00000	0.999959	
Mg 279.077 R	4	Lin Thru 0	0.0	2.132	0.00000	0.999986	
Mn 257.610	4	Lin Thru 0	0.0	1274	0.00000	0.999992	
Mo 202.031	4	Lin Thru 0	0.0	36.88	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	11.25	0.00000	0.999990	
Ni 231.604	4	Lin Thru 0	0.0	38.72	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	42.84	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	30.15	0.00000	0.999994	
Se 196.026	4	Lin Thru 0	0.0	28.73	0.00000	0.999987	
Ti 334.940 R	4	Lin Thru 0	0.0	1179	0.00000	0.999998	
Tl 190.801	4	Lin Thru 0	0.0	17.59	0.00000	0.999999	
V 292.402	4	Lin Thru 0	0.0	107.9	0.00000	0.999998	
Zn 206.200	4	Lin Thru 0	0.0	80.25	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	23.73	0.00000	0.999980	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08
Seqnum : 87445470007
Cal : 87445470001
Standards: S7553

File : 110507r
Caldate : 05-NOV-2007

IDF : 1.0
Time : 05-NOV-2007 08:53

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	28.920	30.166	5000	5002	ug/L	0	10	
Arsenic	A	17.609	19.267	5000	5325	ug/L	6	10	
Barium	A	437.01	439.59	5000	5182	ug/L	4	10	
Beryllium	A	3081.5	3171.8	500.0	521.5	ug/L	4	10	
Boron	A	151.55	162.40	5000	5171	ug/L	3	10	
Cadmium	A	217.73	219.39	5000	5086	ug/L	2	10	
Chromium	A	67.314	65.705	5000	4921	ug/L	-2	10	
Cobalt	A	114.64	113.65	5000	4887	ug/L	-2	10	
Copper	A	407.69	403.45	5000	4942	ug/L	-1	10	
Lead	A	41.632	42.327	5000	4940	ug/L	-1	10	
Manganese	A	1332.8	1297.8	5000	5093	ug/L	2	10	
Molybdenum	A	37.308	37.046	5000	5022	ug/L	0	10	
Nickel	A	38.218	38.288	5000	4944	ug/L	-1	10	
Selenium	A	27.630	28.665	5000	4989	ug/L	0	10	
Silver	A	451.37	464.15	1000	971.6	ug/L	-3	10	
Thallium	A	17.671	17.549	5000	4988	ug/L	0	10	
Tin	A	22.675	23.185	5000	4884	ug/L	-2	10	
Titanium	A	1200.8	1196.1	5000	5074	ug/L	1	10	
Vanadium	A	106.47	107.93	5000	5003	ug/L	0	10	
Zinc	A	96.127	79.634	5000	4961	ug/L	-1	10	
Aluminum	R	1.4396	1.3330	20000	18420	ug/L	-8	10	
Calcium	R	15.590	14.854	20000	18880	ug/L	-6	10	
Iron	R	12.816	12.178	20000	18850	ug/L	-6	10	
Magnesium	R	2.1329	2.0478	20000	19210	ug/L	-4	10	
Potassium	R	4.7191	4.6124	20000	18360	ug/L	-8	10	
Sodium	R	11.151	10.694	20000	19020	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3375490	-5.89

87445470007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87445470008 File : 110507r
Cal : 87445470001 Caldate : 05-NOV-2007
IDF : 1.0
Time : 05-NOV-2007 08:56

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1459]	2.000	0.1170	ug/L	!ib
Boron	A	[41.34]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	[1.257]	3.000	1.150	ug/L	!ib
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[3.223]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3507963	-2.20

!=warning ib=instrument blank

87445470008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470009 File : 110507r Time : 05-NOV-2007 09:01
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[0.8441]	5.000	ug/L	
Arsenic	A	[2.464]	5.000	ug/L	
Barium	A	[0.1914]	5.000	ug/L	
Beryllium	A	[-0.5200]	2.000	ug/L	
Boron	A	[19.54]	100.0	ug/L	
Cadmium	A	[-2.922]	5.000	ug/L	
Cobalt	A	[-1.157]	5.000	ug/L	
Lead	A	[0.8304]	3.000	ug/L	
Molybdenum	A	[-1.152]	5.000	ug/L	
Selenium	A	6.043	5.000	ug/L	
Silver	A	[-1.383]	5.000	ug/L	
Thallium	A	[-8.978]	5.000	ug/L	
Tin	A	[-10.04]	40.00	ug/L	
Zinc	A	[-2.320]	20.00	ug/L	
Potassium	R	[29.31]	500.0	ug/L	
Sodium	R	[47.36]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18700	ug/L	93
Copper	A	20000	19630	ug/L	98
Manganese	A	20000	17940	ug/L	90
Nickel	A	20000	17020	ug/L	85
Titanium	A	20000	19410	ug/L	97
Vanadium	A	20000	19570	ug/L	98
Aluminum	R	500000	531700	ug/L	106
Calcium	R	500000	511700	ug/L	102
Iron	R	200000	198200	ug/L	99
Magnesium	R	500000	518400	ug/L	104

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2933971	-18.20

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87445470010
Cal : 87445470001
Standards: S7324

File : 110507r
Caldate : 05-NOV-2007

IDF : 1.0
Time : 05-NOV-2007 09:07

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	558.5	ug/L	12	20	
Arsenic	A	500.0	563.1	ug/L	13	20	
Barium	A	500.0	533.1	ug/L	7	20	
Beryllium	A	500.0	545.0	ug/L	9	20	
Cadmium	A	1000	979.7	ug/L	-2	20	
Chromium	A	500.0	496.0	ug/L	-1	20	
Cobalt	A	500.0	443.8	ug/L	-11	20	
Copper	A	500.0	507.1	ug/L	1	20	
Lead	A	1000	933.0	ug/L	-7	20	
Manganese	A	500.0	463.6	ug/L	-7	20	
Molybdenum	A	500.0	509.2	ug/L	2	20	
Nickel	A	1000	907.1	ug/L	-9	20	
Selenium	A	500.0	511.9	ug/L	2	20	
Silver	A	1000	1071	ug/L	7	20	
Thallium	A	500.0	435.7	ug/L	-13	20	
Titanium	A	20000	20220	ug/L	1		
Vanadium	A	500.0	534.8	ug/L	7	20	
Zinc	A	1000	1000	ug/L	0	20	
Aluminum	R	500000	486900	ug/L	-3		
Calcium	R	500000	472500	ug/L	-5		
Iron	R	200000	183700	ug/L	-8		
Magnesium	R	500000	477400	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2859972	-20.26

87445470010

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470014 File : 110507r Time : 05-NOV-2007 09:19
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.9	ug/L	12	20	
Arsenic	A	500.0	551.2	ug/L	10	20	
Barium	A	500.0	527.2	ug/L	5	20	
Beryllium	A	500.0	538.9	ug/L	8	20	
Cadmium	A	1000	965.2	ug/L	-3	20	
Chromium	A	500.0	490.3	ug/L	-2	20	
Cobalt	A	500.0	441.9	ug/L	-12	20	
Copper	A	500.0	497.4	ug/L	-1	20	
Lead	A	1000	931.1	ug/L	-7	20	
Manganese	A	500.0	458.0	ug/L	-8	20	
Molybdenum	A	500.0	504.8	ug/L	1	20	
Nickel	A	1000	898.0	ug/L	-10	20	
Selenium	A	500.0	494.8	ug/L	-1	20	
Silver	A	1000	1057	ug/L	6	20	
Thallium	A	500.0	439.5	ug/L	-12	20	
Titanium	A	20000	19900	ug/L	0		
Vanadium	A	500.0	526.2	ug/L	5	20	
Zinc	A	1000	986.3	ug/L	-1	20	
Aluminum	R	500000	496800	ug/L	-1		
Calcium	R	500000	480800	ug/L	-4		
Iron	R	200000	184700	ug/L	-8		
Magnesium	R	500000	484900	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2904630	-19.02

87445470014

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87445470020
Cal : 87445470001
Standards: S7554

File : 110507r
Caldate : 05-NOV-2007

IDF : 1.0
Time : 05-NOV-2007 09:39

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	29.746	5000	4932	ug/L	-1	10	
Arsenic	A	17.609	18.938	5000	5234	ug/L	5	10	
Barium	A	437.01	440.28	5000	5190	ug/L	4	10	
Beryllium	A	3081.5	3183.6	500.0	523.5	ug/L	5	10	
Boron	A	151.55	159.43	5000	5076	ug/L	2	10	
Cadmium	A	217.73	219.46	5000	5088	ug/L	2	10	
Chromium	A	67.314	65.775	5000	4926	ug/L	-1	10	
Cobalt	A	114.64	113.77	5000	4892	ug/L	-2	10	
Copper	A	407.69	403.56	5000	4943	ug/L	-1	10	
Lead	A	41.632	41.641	5000	4860	ug/L	-3	10	
Manganese	A	1332.8	1299.5	5000	5099	ug/L	2	10	
Molybdenum	A	37.308	36.932	5000	5006	ug/L	0	10	
Nickel	A	38.218	38.271	5000	4942	ug/L	-1	10	
Selenium	A	27.630	28.065	5000	4885	ug/L	-2	10	
Silver	A	451.37	464.01	1000	971.3	ug/L	-3	10	
Thallium	A	17.671	17.062	5000	4849	ug/L	-3	10	
Tin	A	22.675	23.088	5000	4864	ug/L	-3	10	
Titanium	A	1200.8	1197.9	5000	5081	ug/L	2	10	
Vanadium	A	106.47	107.94	5000	5004	ug/L	0	10	
Zinc	A	96.127	79.397	5000	4947	ug/L	-1	10	
Aluminum	R	1.4396	1.4456	20000	19970	ug/L	0	10	
Calcium	R	15.590	16.102	20000	20460	ug/L	2	10	
Iron	R	12.816	13.214	20000	20460	ug/L	2	10	
Magnesium	R	2.1329	2.2151	20000	20780	ug/L	4	10	
Potassium	R	4.7191	4.9170	20000	19580	ug/L	-2	10	
Sodium	R	11.151	11.378	20000	20230	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3325086	-7.29

87445470020

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470022 File : 110507r Time : 05-NOV-2007 09:46
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1510]	2.000	0.1170	ug/L	!ib
Boron	A	[15.98]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.475]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	[2.268]	5.000	1.986	ug/L	!ib
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3518823	-1.89

!=warning ib=instrument blank

87445470022

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87445470034
Cal : 87445470001
Standards: S7554

File : 110507r
Caldate : 05-NOV-2007

IDF : 1.0
Time : 05-NOV-2007 10:17

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.091	5000	4990	ug/L	0	10	
Arsenic	A	17.609	19.214	5000	5310	ug/L	6	10	
Barium	A	437.01	443.07	5000	5223	ug/L	4	10	
Beryllium	A	3081.5	3184.3	500.0	523.6	ug/L	5	10	
Boron	A	151.55	161.36	5000	5138	ug/L	3	10	
Cadmium	A	217.73	221.18	5000	5127	ug/L	3	10	
Chromium	A	67.314	66.168	5000	4955	ug/L	-1	10	
Cobalt	A	114.64	114.44	5000	4921	ug/L	-2	10	
Copper	A	407.69	405.50	5000	4967	ug/L	-1	10	
Lead	A	41.632	42.215	5000	4927	ug/L	-1	10	
Manganese	A	1332.8	1306.5	5000	5127	ug/L	3	10	
Molybdenum	A	37.308	37.273	5000	5053	ug/L	1	10	
Nickel	A	38.218	38.675	5000	4994	ug/L	0	10	
Selenium	A	27.630	28.567	5000	4972	ug/L	-1	10	
Silver	A	451.37	466.49	1000	976.5	ug/L	-2	10	
Thallium	A	17.671	17.330	5000	4926	ug/L	-1	10	
Tin	A	22.675	23.368	5000	4923	ug/L	-2	10	
Titanium	A	1200.8	1203.0	5000	5103	ug/L	2	10	
Vanadium	A	106.47	108.66	5000	5037	ug/L	1	10	
Zinc	A	96.127	80.217	5000	4998	ug/L	0	10	
Aluminum	R	1.4396	1.4161	20000	19560	ug/L	-2	10	
Calcium	R	15.590	15.798	20000	20080	ug/L	0	10	
Iron	R	12.816	12.973	20000	20090	ug/L	0	10	
Magnesium	R	2.1329	2.1666	20000	20330	ug/L	2	10	
Potassium	R	4.7191	4.8161	20000	19180	ug/L	-4	10	
Sodium	R	11.151	10.979	20000	19520	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3341134	-6.85

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470036 File : 110507r Time : 05-NOV-2007 10:24
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1339]	2.000	0.1170	ug/L	!ib
Boron	A	[16.67]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3563597	-0.64

!=warning ib=instrument blank

87445470036

00036

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470048 File : 110507r Time : 05-NOV-2007 11:03
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.037	5000	4981	ug/L	0	10	
Arsenic	A	17.609	19.079	5000	5273	ug/L	5	10	
Barium	A	437.01	445.38	5000	5250	ug/L	5	10	
Beryllium	A	3081.5	3190.2	500.0	524.5	ug/L	5	10	
Boron	A	151.55	163.33	5000	5200	ug/L	4	10	
Cadmium	A	217.73	223.84	5000	5189	ug/L	4	10	
Chromium	A	67.314	66.605	5000	4988	ug/L	0	10	
Cobalt	A	114.64	115.51	5000	4967	ug/L	-1	10	
Copper	A	407.69	411.15	5000	5036	ug/L	1	10	
Lead	A	41.632	42.397	5000	4948	ug/L	-1	10	
Manganese	A	1332.8	1313.4	5000	5154	ug/L	3	10	
Molybdenum	A	37.308	37.629	5000	5101	ug/L	2	10	
Nickel	A	38.218	39.118	5000	5051	ug/L	1	10	
Selenium	A	27.630	28.518	5000	4964	ug/L	-1	10	
Silver	A	451.37	471.17	1000	986.2	ug/L	-1	10	
Thallium	A	17.671	17.218	5000	4894	ug/L	-2	10	
Tin	A	22.675	23.707	5000	4994	ug/L	0	10	
Titanium	A	1200.8	1208.6	5000	5126	ug/L	3	10	
Vanadium	A	106.47	109.62	5000	5082	ug/L	2	10	
Zinc	A	96.127	81.528	5000	5079	ug/L	2	10	
Aluminum	R	1.4396	1.4669	20000	20260	ug/L	1	10	
Calcium	R	15.590	16.221	20000	20620	ug/L	3	10	
Iron	R	12.816	13.384	20000	20720	ug/L	4	10	
Magnesium	R	2.1329	2.2329	20000	20950	ug/L	5	10	
Potassium	R	4.7191	4.9538	20000	19720	ug/L	-1	10	
Sodium	R	11.151	11.362	20000	20200	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3408987	-4.96

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87445470050
Cal : 87445470001
File : 110507r
Caldate : 05-NOV-2007
IDF : 1.0
Time : 05-NOV-2007 11:10

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1270]	2.000	0.1170	ug/L	!ib
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	[1.137]	5.000	0.5779	ug/L	!ib
Molybdenum	A	[1.399]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	[4.805]	20.00	3.056	ug/L	!ib
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3575418	-0.32

!=warning ib=instrument blank

87445470050

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87445470062
Cal : 87445470001
Standards: S7554

File : 110507r
Caldate : 05-NOV-2007

IDF : 1.0
Time : 05-NOV-2007 11:43

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.534	5000	5063	ug/L	1	10	
Arsenic	A	17.609	19.537	5000	5399	ug/L	8	10	
Barium	A	437.01	445.11	5000	5247	ug/L	5	10	
Beryllium	A	3081.5	3187.5	500.0	524.1	ug/L	5	10	
Boron	A	151.55	162.71	5000	5181	ug/L	4	10	
Cadmium	A	217.73	223.02	5000	5170	ug/L	3	10	
Chromium	A	67.314	66.486	5000	4979	ug/L	0	10	
Cobalt	A	114.64	115.48	5000	4966	ug/L	-1	10	
Copper	A	407.69	410.34	5000	5026	ug/L	1	10	
Lead	A	41.632	43.074	5000	5027	ug/L	1	10	
Manganese	A	1332.8	1312.0	5000	5148	ug/L	3	10	
Molybdenum	A	37.308	37.478	5000	5080	ug/L	2	10	
Nickel	A	38.218	38.995	5000	5035	ug/L	1	10	
Selenium	A	27.630	29.229	5000	5087	ug/L	2	10	
Silver	A	451.37	468.80	1000	981.3	ug/L	-2	10	
Thallium	A	17.671	17.714	5000	5035	ug/L	1	10	
Tin	A	22.675	23.559	5000	4963	ug/L	-1	10	
Titanium	A	1200.8	1207.8	5000	5123	ug/L	2	10	
Vanadium	A	106.47	109.10	5000	5057	ug/L	1	10	
Zinc	A	96.127	81.062	5000	5050	ug/L	1	10	
Aluminum	R	1.4396	1.4385	20000	19870	ug/L	-1	10	
Calcium	R	15.590	16.123	20000	20490	ug/L	2	10	
Iron	R	12.816	13.290	20000	20580	ug/L	3	10	
Magnesium	R	2.1329	2.2265	20000	20890	ug/L	4	10	
Potassium	R	4.7191	4.8641	20000	19370	ug/L	-3	10	
Sodium	R	11.151	11.179	20000	19880	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3374409	-5.92

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87445470064 File : 110507r
Cal : 87445470001 Caldate : 05-NOV-2007
IDF : 1.0
Time : 05-NOV-2007 11:50

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.534]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3584043	-0.07

!=warning ib=instrument blank

87445470064

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470067 File : 110507r Time : 05-NOV-2007 11:58
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.9	ug/L	12	20	
Arsenic	A	500.0	560.6	ug/L	12	20	
Barium	A	500.0	530.5	ug/L	6	20	
Beryllium	A	500.0	541.8	ug/L	8	20	
Cadmium	A	1000	983.1	ug/L	-2	20	
Chromium	A	500.0	494.1	ug/L	-1	20	
Cobalt	A	500.0	444.0	ug/L	-11	20	
Copper	A	500.0	499.0	ug/L	0	20	
Lead	A	1000	937.2	ug/L	-6	20	
Manganese	A	500.0	464.3	ug/L	-7	20	
Molybdenum	A	500.0	511.2	ug/L	2	20	
Nickel	A	1000	907.5	ug/L	-9	20	
Selenium	A	500.0	496.1	ug/L	-1	20	
Silver	A	1000	1063	ug/L	6	20	
Thallium	A	500.0	428.7	ug/L	-14	20	
Titanium	A	20000	20180	ug/L	1		
Vanadium	A	500.0	528.3	ug/L	6	20	
Zinc	A	1000	996.6	ug/L	0	20	
Aluminum	R	500000	515900	ug/L	3		
Calcium	R	500000	493600	ug/L	-1		
Iron	R	200000	192600	ug/L	-4		
Magnesium	R	500000	507400	ug/L	1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2895693	-19.27

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87445470069
Cal : 87445470001
Standards: S7554

File : 110507r
Caldate : 05-NOV-2007

IDF : 1.0
Time : 05-NOV-2007 12:05

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.544	5000	5065	ug/L	1	10	
Arsenic	A	17.609	19.493	5000	5387	ug/L	8	10	
Barium	A	437.01	447.07	5000	5270	ug/L	5	10	
Beryllium	A	3081.5	3222.6	500.0	529.9	ug/L	6	10	
Boron	A	151.55	163.76	5000	5214	ug/L	4	10	
Cadmium	A	217.73	224.01	5000	5193	ug/L	4	10	
Chromium	A	67.314	66.788	5000	5002	ug/L	0	10	
Cobalt	A	114.64	116.02	5000	4989	ug/L	0	10	
Copper	A	407.69	410.31	5000	5026	ug/L	1	10	
Lead	A	41.632	43.261	5000	5049	ug/L	1	10	
Manganese	A	1332.8	1319.0	5000	5176	ug/L	4	10	
Molybdenum	A	37.308	37.585	5000	5095	ug/L	2	10	
Nickel	A	38.218	39.071	5000	5045	ug/L	1	10	
Selenium	A	27.630	29.160	5000	5075	ug/L	2	10	
Silver	A	451.37	472.09	1000	988.2	ug/L	-1	10	
Thallium	A	17.671	17.700	5000	5031	ug/L	1	10	
Tin	A	22.675	23.709	5000	4995	ug/L	0	10	
Titanium	A	1200.8	1213.4	5000	5147	ug/L	3	10	
Vanadium	A	106.47	109.48	5000	5075	ug/L	1	10	
Zinc	A	96.127	81.517	5000	5079	ug/L	2	10	
Aluminum	R	1.4396	1.4874	20000	20550	ug/L	3	10	
Calcium	R	15.590	16.778	20000	21320	ug/L	7	10	
Iron	R	12.816	13.852	20000	21450	ug/L	7	10	
Magnesium	R	2.1329	2.3381	20000	21940	ug/L	10	10	
Potassium	R	4.7191	5.0521	20000	20120	ug/L	1	10	
Sodium	R	11.151	11.557	20000	20550	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3344494	-6.75

87445470069

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470071 File : 110507r Time : 05-NOV-2007 12:12
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	[0.5833]	5.000	0.5779	ug/L	!ib
Molybdenum	A	[1.706]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3534752	-1.45

!=warning ib=instrument blank

87445470071

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470082 File : 110507r Time : 05-NOV-2007 12:47
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	585.4	ug/L	17	20	
Arsenic	A	500.0	561.8	ug/L	12	20	
Barium	A	500.0	540.5	ug/L	8	20	
Beryllium	A	500.0	552.1	ug/L	10	20	
Cadmium	A	1000	1004	ug/L	0	20	
Chromium	A	500.0	499.0	ug/L	0	20	
Cobalt	A	500.0	449.8	ug/L	-10	20	
Copper	A	500.0	503.6	ug/L	1	20	
Lead	A	1000	959.0	ug/L	-4	20	
Manganese	A	500.0	470.8	ug/L	-6	20	
Molybdenum	A	500.0	512.4	ug/L	2	20	
Nickel	A	1000	922.7	ug/L	-8	20	
Selenium	A	500.0	519.9	ug/L	4	20	
Silver	A	1000	1081	ug/L	8	20	
Thallium	A	500.0	423.1	ug/L	-15	20	
Titanium	A	20000	20190	ug/L	1		
Vanadium	A	500.0	538.2	ug/L	8	20	
Zinc	A	1000	1023	ug/L	2	20	
Aluminum	R	500000	519600	ug/L	4		
Calcium	R	500000	511400	ug/L	2		
Iron	R	200000	199500	ug/L	0		
Magnesium	R	500000	524700	ug/L	5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2899622	-19.16

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87445470083
Cal : 87445470001
Standards: S7554

File : 110507r
Caldate : 05-NOV-2007

IDF : 1.0
Time : 05-NOV-2007 12:51

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.707	5000	5092	ug/L	2	10	
Arsenic	A	17.609	19.813	5000	5475	ug/L	10	10	
Barium	A	437.01	452.52	5000	5334	ug/L	7	10	
Beryllium	A	3081.5	3283.1	500.0	539.8	ug/L	8	10	
Boron	A	151.55	167.51	5000	5333	ug/L	7	10	
Cadmium	A	217.73	227.20	5000	5267	ug/L	5	10	
Chromium	A	67.314	67.602	5000	5063	ug/L	1	10	
Cobalt	A	114.64	117.81	5000	5066	ug/L	1	10	
Copper	A	407.69	412.03	5000	5047	ug/L	1	10	
Lead	A	41.632	43.205	5000	5042	ug/L	1	10	
Manganese	A	1332.8	1336.2	5000	5243	ug/L	5	10	
Molybdenum	A	37.308	38.095	5000	5164	ug/L	3	10	
Nickel	A	38.218	39.590	5000	5112	ug/L	2	10	
Selenium	A	27.630	29.710	5000	5171	ug/L	3	10	
Silver	A	451.37	473.63	1000	991.4	ug/L	-1	10	
Thallium	A	17.671	18.129	5000	5153	ug/L	3	10	
Tin	A	22.675	24.123	5000	5082	ug/L	2	10	
Titanium	A	1200.8	1225.6	5000	5199	ug/L	4	10	
Vanadium	A	106.47	110.45	5000	5120	ug/L	2	10	
Zinc	A	96.127	83.294	5000	5189	ug/L	4	10	
Aluminum	R	1.4396	1.4032	20000	19380	ug/L	-3	10	
Calcium	R	15.590	15.947	20000	20270	ug/L	1	10	
Iron	R	12.816	13.140	20000	20340	ug/L	2	10	
Magnesium	R	2.1329	2.2289	20000	20910	ug/L	5	10	
Potassium	R	4.7191	4.7930	20000	19080	ug/L	-5	10	
Sodium	R	11.151	10.949	20000	19470	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3361961	-6.27

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470085 File : 110507r Time : 05-NOV-2007 12:58
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.483]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3601308	0.41

!=warning ib=instrument blank

87445470085

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	110507r	ICALBLK				05-NOV-2007 08:30	1.0	1.0					
002	110507r	ICAL	CRIM08			05-NOV-2007 08:34	1.0	1.0				1	
003	110507r	ICAL	CS100			05-NOV-2007 08:38	1.0	1.0				2	
004	110507r	ICAL	CS1K			05-NOV-2007 08:41	1.0	1.0				3	
005	110507r	ICAL	CS10K			05-NOV-2007 08:44	1.0	1.0				4	
006	110507r	ICAL	CS100K			05-NOV-2007 08:47	1.0	1.0				5	
007	110507r	ICV				05-NOV-2007 08:53	1.0	1.0			5000	6	
008	110507r	ICB				05-NOV-2007 08:56	1.0	1.0			5000		
009	110507r	ICSA				05-NOV-2007 09:01	1.0	1.0			5000	7	10:AL=531691
010	110507r	ICSAB				05-NOV-2007 09:07	1.0	1.0			5000	8	5:AL=486901
011	110507r	SAMPLE	198921-002	131283	Miscel	05-NOV-2007 09:10	20.0	49.50			5000		1:FE=298405
012	110507r	SAMPLE	198929-007	131283	Soil	05-NOV-2007 09:13	10.0	47.62			5000		1:FE=240269
013	110507r	SAMPLE	198929-010	131283	Soil	05-NOV-2007 09:16	10.0	45.05			5000		
014	110507r	ICSAB				05-NOV-2007 09:19	1.0	1.0			5000	8	5:AL=496791
015	110507r	X	RINSE			05-NOV-2007 09:22	1.0						
016	110507r	BLANK	QC413589	131284	Soil	05-NOV-2007 09:26	1.0	50.0			5000		
017	110507r	BS	QC413590	131284	Soil	05-NOV-2007 09:30	1.0	50.0			5000		
018	110507r	BSD	QC413591	131284	Soil	05-NOV-2007 09:33	1.0	50.0			5000		
019	110507r	X	RINSE			05-NOV-2007 09:36	1.0						
020	110507r	CCV				05-NOV-2007 09:39	1.0	1.0			5000	9	
021	110507r	X	FLUSH			05-NOV-2007 09:42	1.0						
022	110507r	CCB				05-NOV-2007 09:46	1.0	1.0			5000		
023	110507r	MSS	198903-001	131284	Soil	05-NOV-2007 09:50	1.0	45.05	1		5000		1:FE=214998
024	110507r	MS	QC413592	131284	Soil	05-NOV-2007 09:52	1.0	47.17		1	5000		2:FE=216407
025	110507r	MSD	QC413593	131284	Soil	05-NOV-2007 09:54	1.0	48.08		4	5000		2:FE=228591
026	110507r	SER	QC413594	131284	Soil	05-NOV-2007 09:56	5.0	45.05		1	5000		
027	110507r	PDS	QC413595	131284	Soil	05-NOV-2007 09:59	1.0	45.05			5000	10 11	2:FE=235549
028	110507r	SAMPLE	198903-002	131284	Soil	05-NOV-2007 10:01	1.0	45.05			5000		5:FE=451360
029	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 10:03	1.0	47.17	2		5000		4:FE=365607
030	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 10:06	1.0	46.30	1		5000		2:FE=268314
031	110507r	?SAMPLE	198709-001			05-NOV-2007 10:08	1.0						

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 11/5/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used >LR
032	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 10:12	1.0	46.73		5000	3:MG=320813
033	110507r	X	RINSE			05-NOV-2007 10:14	1.0				
034	110507r	CCV				05-NOV-2007 10:17	1.0	1.0		5000	9
035	110507r	X	FLUSH			05-NOV-2007 10:21	1.0				
036	110507r	CCB				05-NOV-2007 10:24	1.0	1.0		5000	
037	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 10:28	1.0	49.50	1	5000	6:FE=649648
038	110507r	SAMPLE	198841-001	131284	Miscel	05-NOV-2007 10:30	1.0	48.08		5000	1:FE=212461
039	110507r	SAMPLE	198841-002	131284	Miscel	05-NOV-2007 10:33	1.0	45.45		5000	1:FE=226239
040	110507r	SAMPLE	198841-003	131284	Miscel	05-NOV-2007 10:36	1.0	56.82		5000	3:FE=167173
041	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 10:39	1.0	49.02		5000	3:FE=661648
042	110507r	SAMPLE	198845-002	131284	Miscel	05-NOV-2007 10:43	1.0	45.45		5000	3:FE=452399
043	110507r	SAMPLE	198852-001	131284	Miscel	05-NOV-2007 10:47	1.0	48.08		5000	2:FE=176098
044	110507r	SAMPLE	198850-001	131284	Miscel	05-NOV-2007 10:50	1.0	71.43		5000	1:FE=202532
045	110507r	SAMPLE	198850-002	131284	Miscel	05-NOV-2007 10:54	1.0	50.0		5000	2:FE=637998
046	110507r	SAMPLE	198849-001	131284	Miscel	05-NOV-2007 10:56	1.0	45.05		5000	2:FE=1793655
047	110507r	X	RINSE			05-NOV-2007 10:59	1.0				
048	110507r	CCV				05-NOV-2007 11:03	1.0	1.0		5000	9
049	110507r	X	FLUSH			05-NOV-2007 11:06	1.0				
050	110507r	CCB				05-NOV-2007 11:10	1.0	1.0		5000	
051	110507r	SAMPLE	198848-001	131284	Miscel	05-NOV-2007 11:14	1.0	45.05		5000	2:FE=502731
052	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:17	1.0	72.46	1	5000	3:FE=559436
053	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:19	1.0	48.54	1	5000	4:CA=380474
054	110507r	SAMPLE	198844-001	131284	Miscel	05-NOV-2007 11:21	1.0	100.0		5000	
055	110507r	SAMPLE	198844-002	131284	Miscel	05-NOV-2007 11:24	1.0	90.91		5000	
056	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 11:28	1.0	47.17		5000	3:FE=308922
057	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 11:30	1.0	46.30	1	5000	2:FE=234718
058	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 11:32	1.0	46.73		5000	3:MG=316139
059	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 11:34	1.0	49.50		5000	6:FE=645974
060	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 11:36	1.0	49.02		5000	3:FE=665009
061	110507r	X	RINSE			05-NOV-2007 11:40	1.0				
062	110507r	CCV				05-NOV-2007 11:43	1.0	1.0		5000	9

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 11/5/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	110507r	X	FLUSH			05-NOV-2007 11:47	1.0					
064	110507r	CCB				05-NOV-2007 11:50	1.0	1.0		5000		
065	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:54	1.0	72.46		5000		3:FE=592381
066	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:56	1.0	48.54		5000		4:CA=402689
067	110507r	ICSAB				05-NOV-2007 11:58	1.0	1.0		5000	8	5:AL=515891
068	110507r	X	RINSE			05-NOV-2007 12:02	1.0					
069	110507r	CCV				05-NOV-2007 12:05	1.0	1.0		5000	9	
070	110507r	X	FLUSH			05-NOV-2007 12:09	1.0					
071	110507r	CCB				05-NOV-2007 12:12	1.0	1.0		5000		
072	110507r	BLANK	QC413668	131308	Water	05-NOV-2007 12:17	1.0	1.0		5000		
073	110507r	BS	QC413669	131308	Water	05-NOV-2007 12:21	1.0	1.0		5000		
074	110507r	BSD	QC413670	131308	Water	05-NOV-2007 12:24	1.0	1.0		5000		
075	110507r	MSS	198879-001	131308	Water	05-NOV-2007 12:27	1.0	1.0	1	5000		1:NA=106485
076	110507r	MS	QC413671	131308	Water	05-NOV-2007 12:30	1.0	1.0		5000		2:NA=127923
077	110507r	MSD	QC413672	131308	Water	05-NOV-2007 12:33	1.0	1.0		5000		2:NA=127233
078	110507r	SER	QC413673	131308	Water	05-NOV-2007 12:36	5.0	1.0		5000		
079	110507r	PDS	QC413674	131308	Water	05-NOV-2007 12:39	1.0	1.0		5000	12 13	2:NA=119175
080	110507r	SAMPLE	198879-002	131308	Water	05-NOV-2007 12:42	1.0	1.0		5000		1:NA=100649
081	110507r	SER	QC413673	131308	Water	05-NOV-2007 12:45	5.0	1.0		5000		
082	110507r	ICSAB				05-NOV-2007 12:47	1.0	1.0		5000	8	5:MG=524713
083	110507r	CCV				05-NOV-2007 12:51	1.0	1.0		5000	9	
084	110507r	X	FLUSH			05-NOV-2007 12:54	1.0					
085	110507r	CCB				05-NOV-2007 12:58	1.0	1.0		5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 11/5/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198879 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AS	CD	CR	CU	PB	HG	NI	AG	ZN	
198879-001	MET14	11/02/07 15:47	1.0						+				
198879-001	MET08	11/05/07 12:27	1.0	+	+	+	+	+		+	+	+	
198879-002	MET14	11/02/07 15:49	1.0						+				
198879-002	MET08	11/05/07 12:42	1.0	+	+	+	+	+		+	+	+	
QC413454	MET14	11/02/07 15:20	1.0						+				
QC413455	MET14	11/02/07 15:23	1.0						+				
QC413456	MET14	11/02/07 15:25	1.0						+				
QC413457	MET14	11/02/07 16:33	5.0						+				
QC413458	MET14	11/02/07 15:31	1.0						+				
QC413459	MET14	11/02/07 15:34	1.0						+				
QC413668	MET08	11/05/07 12:17	1.0	+	+	+	+	+		+	+	+	
QC413669	MET08	11/05/07 12:21	1.0	+	+	+	+	+		+	+	+	
QC413670	MET08	11/05/07 12:24	1.0	+	+	+	+	+		+	+	+	
QC413671	MET08	11/05/07 12:30	1.0	+	+	+	+	+		+	+	+	
QC413672	MET08	11/05/07 12:33	1.0	+	+	+	+	+		+	+	+	
QC413673	MET08	11/05/07 12:36	5.0	+	+	+	+	+		+	+	+	
QC413673	MET08	11/05/07 12:45	5.0										
QC413674	MET08	11/05/07 12:39	1.0	+	+	+	+	+		+	+	+	

60050

Curtis & Tompkins Laboratories Sample Preparation Summary 05-NOV-2007 11:44

Batch Number : 131308
Date Extracted: 05-NOV-2007
Extracted by : Kevin Gaines
Prep Method : 3010A

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S6920
Spike #2 ID : S6921
Spike #3 ID :
SOP Version : 3010A_ICP_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198863-001			Evenson, Acree, & Williams	Water	50	mL	50	1.000000	1					PB		
198863-002			Evenson, Acree, & Williams	Water	50	mL	50	1.000000	1					PB		
198863-003			Evenson, Acree, & Williams	Water	50	mL	50	1.000000	1					PB		
198866-001			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-003			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-005			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-007			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-009			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-011			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-013			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-015			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-017			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-019			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-021			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-022			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-024			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198866-026			General Services Administratio	Water	50	mL	50	1.000000	1					CU, FE, PB		
198879-001			Mactec, Inc.	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
198879-002			Mactec, Inc.	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
QC413668	BLANK			Water	50	mL	50	1.000000	1					ICAP		
QC413669	BS			Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC413670	BSD			Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC413671	MS	of 198879-001		Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC413672	MSD	of 198879-001		Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC413673	SER	of 198879-001		Water	50	mL	50	1.000000	1					ICAP		
QC413674	PDS	of 198879-001		Water	50	mL	50	1.000000	1					ICAP		

Prep Chemist: 11/5/07 Reviewed By: Date: 11/5/07

Relinquished By: 11/5/07 Received By: Date: 11/5/07

7:30

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 131305
Date Digested: 11/5/07
Digested by: KLA

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK 2547
Page 89
Continued From: /
Continued On: /

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BHC	50	50		
BS				
BSD				
MB-01B				
MBL-01				
198379-01				
01C				
863-01A				
-02				
-03				
866-01				
-03				
-05				
-07				
-09				
-11				
-13				
-15				
-17				
-19				
-21				
-22				
-24				
-24				

5 digestion temperature (90-95 degrees C)
_____ mL of spike solution was added to all spikes

☐ 1:1 HNO3, ☐ concentrated HNO3, added to all samples
1:1 HCl added to all samples
☐ filtered thru' Whatman # 541
Relinquished to ICP group

Reagent ID or LIMS #	Initials / Date
95	KLA 11/5
316920	
316921	
A2L0035 Barker	
A110530806O7	
N/A	

KLA 11/5/07
Prep Chemist Signature / Date

11/5/07
Reviewer Signature / Date

00052

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET14
alnum : 847441541001
nits : ug/L

Date : 02-NOV-2007 15:01
X Axis : R

Reviewer : ---
Type : WATER

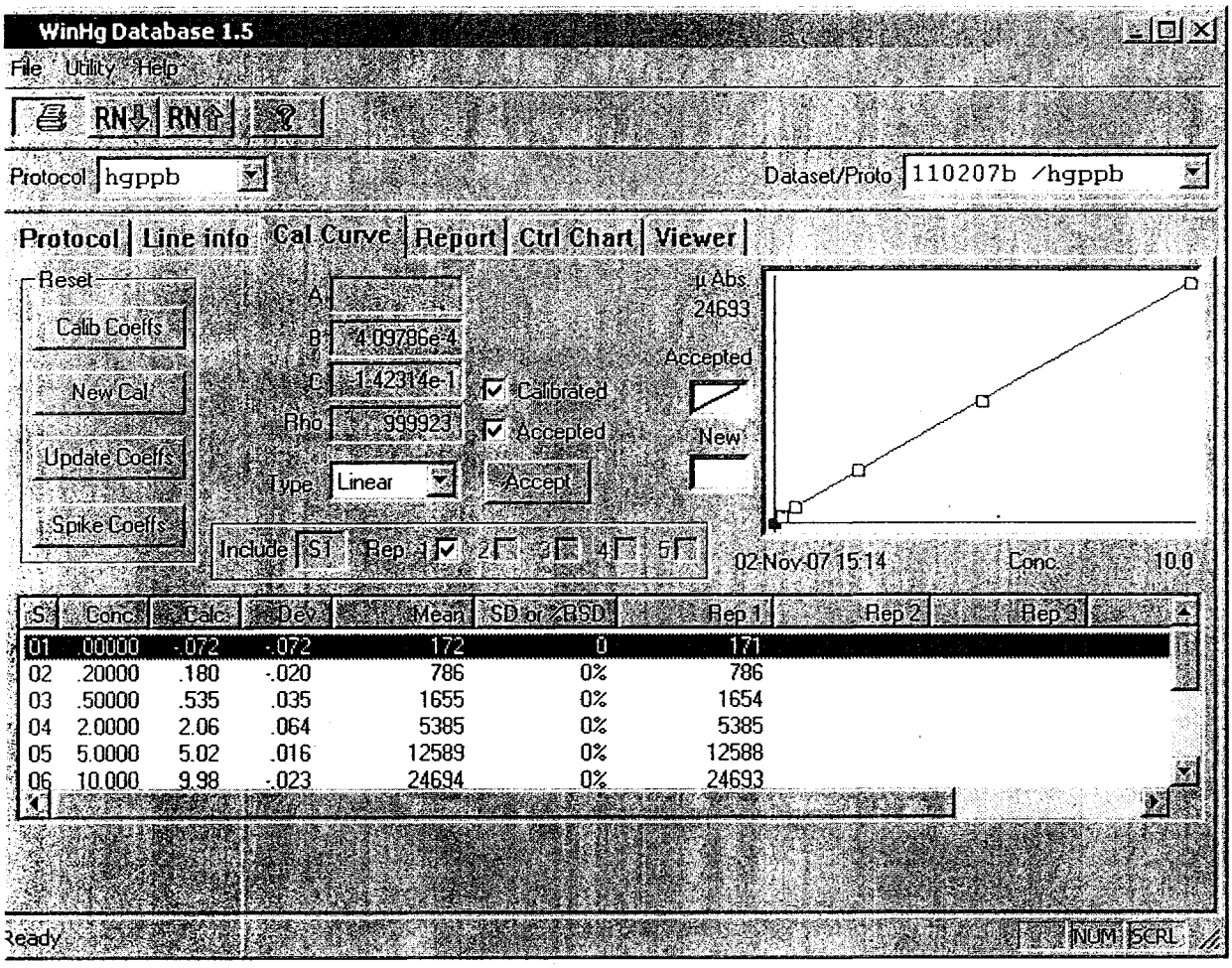
evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	131249	847441541002	STD02REP1	02-NOV-2007 15:03	S7584 (500X)
L2	131249	847441541003	STD03REP1	02-NOV-2007 15:05	S7584 (200X)
L3	131249	847441541004	STD04REP1	02-NOV-2007 15:07	S7584 (50X)
L4	131249	847441541005	STD05REP1	02-NOV-2007 15:10	S7584 (20X)
L5	131249	847441541006	STD06REP1	02-NOV-2007 15:12	S7584 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ercury	3930.0	3308.0	2692.5	2517.6	2469.3	LINR	-0.1423	4.10E-4		2983.5	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
ercury	0.200	-10	0.500	7	2.000	3	5.000	0	10.00	0

strument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

847441541001


WinHg Database 1.5
File Utility Help
RN RN
Protocol hgppb
Dataset/Proto 110207b /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 4.09786e-4
C 1.42314e-1
Rho .999923
Type Linear
Calibrated
Accepted
Accept
µ Abs
24693
Accepted
New
Include S1 Rep 1 2 3 4 5
02-Nov-07 15:14
Conc 10.0
S Conc Calc %Dev Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.072 -.072 172 0 171
02 .20000 .180 -.020 786 0% 786
03 .50000 .535 .035 1655 0% 1654
04 2.0000 2.06 .064 5385 0% 5385
05 5.0000 5.02 .016 12589 0% 12588
06 10.000 9.98 -.023 24694 0% 24693
Ready
NUM SCRL

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		15:01:19 02 Nov 07		HG	
Hg	.000	ppb	171						
		Bkgd 1	17429514						=
									=
*** Standard: 2 Rep: 1				Seq: 2		15:03:23 02 Nov 07		HG	
Hg	.200	ppb	786						
		Bkgd 1	17421032						=
									=
*** Standard: 3 Rep: 1				Seq: 3		15:05:30 02 Nov 07		HG	
Hg	.500	ppb	1654						
		Bkgd 1	17415851						=
									=
*** Standard: 4 Rep: 1				Seq: 4		15:07:36 02 Nov 07		HG	
Hg	2.00	ppb	5385						
		Bkgd 1	17421402						=
									=
*** Standard: 5 Rep: 1				Seq: 5		15:10:11 02 Nov 07		HG	
Hg	5.00	ppb	12588						
		Bkgd 1	17420782						=
									=
*** Standard: 6 Rep: 1				Seq: 6		15:12:16 02 Nov 07		HG	
Hg	10.0	ppb	24693						
		Bkgd 1	17413805						=
									=
*** Check Standard: 2			Ck2S7586	Seq: 7		15:15:58 02 Nov 07		HG	
Line	Flag		Intensities						
Hg			12742						
		Bkgd 1	17428927						=
									=
*** Check Standard: 1			Ck1ICB	Seq: 8		15:18:23 02 Nov 07		HG	
Line	Flag		Intensities						
Hg			243						
		Bkgd 1	17415086						=
									=
*** Sample ID: qc413454				Seq: 9		15:20:38 02 Nov 07		HG	
			131249,1						
Hg	-.072	ppb	171						
		Bkgd 1	17413067						=
									=

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 847441541 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 02-NOV-2007
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
01	131249	ICALBLK	STD01REP1				02-NOV-2007 15:01	1.0	1.0									
02	131249	ICAL	STD02REP1				02-NOV-2007 15:03	1.0	1.0									
03	131249	ICAL	STD03REP1				02-NOV-2007 15:05	1.0	1.0									
04	131249	ICAL	STD04REP1				02-NOV-2007 15:07	1.0	1.0									
05	131249	ICAL	STD05REP1				02-NOV-2007 15:10	1.0	1.0									
06	131249	ICAL	STD06REP1				02-NOV-2007 15:12	1.0	1.0									
07	131249	ICV					02-NOV-2007 15:15	1.0	1.0	2	5.000	847441541001	5.080		ug/L	102		
08	131249	ICB					02-NOV-2007 15:18	1.0	1.0			847441541001	ND	0.20	ug/L			
09	131249	BLANK	QC413454		131249	Water	02-NOV-2007 15:20	1.0	1.0			847441541001	ND	0.20	ug/L			u
10	131249	BS	QC413455		131249	Water	02-NOV-2007 15:23	1.0	1.0		5.000	847441541001	4.920	0.20	ug/L	98		u
11	131249	BSD	QC413456		131249	Water	02-NOV-2007 15:25	1.0	1.0		5.000	847441541001	5.000	0.20	ug/L	100	2	u
12	131249	MSS	198885-005		131249	Water	02-NOV-2007 15:27	1.0	1.0			847441541001	4.9	0.20	ug/L			u
13	131249	MS	QC413458	198885-005	131249	Water	02-NOV-2007 15:31	1.0	1.0		5.000	847441541001	9.370	0.20	ug/L	90		u
14	131249	MSD	QC413459	198885-005	131249	Water	02-NOV-2007 15:34	1.0	1.0		5.000	847441541001	9.610	0.20	ug/L	95	3	u
15	131249	SAMPLE	198858-003		131249	Water	02-NOV-2007 15:36	1.0	1.0			847441541001	ND	0.20	ug/L			u
16	131249	SAMPLE	198872-002		131249	Filtra	02-NOV-2007 15:38	1.0	1.0			847441541001	ND	0.20	ug/L			u
17	131249	SAMPLE	198872-003		131249	Filtra	02-NOV-2007 15:41	1.0	1.0			847441541001	ND	0.20	ug/L			u
18	131249	CCV					02-NOV-2007 15:43	1.0	1.0	3	2.500	847441541001	2.480		ug/L	99		
19	131249	CCB					02-NOV-2007 15:45	1.0	1.0			847441541001	ND	0.20	ug/L			
20	131249	SAMPLE	198879-001		131249	Water	02-NOV-2007 15:47	1.0	1.0			847441541001	ND	0.20	ug/L			u
21	131249	SAMPLE	198879-002		131249	Water	02-NOV-2007 15:49	1.0	1.0			847441541001	0.18 J	0.20	ug/L			u
22	131249	SAMPLE	198881-002		131249	Filtra	02-NOV-2007 15:52	1.0	1.0			847441541001	ND	0.20	ug/L			u
23	131249	SAMPLE	198881-009		131249	Filtra	02-NOV-2007 15:54	1.0	1.0			847441541001	ND	0.20	ug/L			u
24	131249	SAMPLE	198881-014		131249	Filtra	02-NOV-2007 15:56	1.0	1.0			847441541001	ND	0.20	ug/L			u
25	131249	SAMPLE	198881-018		131249	Filtra	02-NOV-2007 15:58	1.0	1.0			847441541001	ND	0.20	ug/L			u
26	131249	SAMPLE	198881-019		131249	Filtra	02-NOV-2007 16:01	1.0	1.0			847441541001	ND	0.20	ug/L			u
27	131249	SAMPLE	198885-007		131249	Water	02-NOV-2007 16:03	1.0	1.0			847441541001	ND	0.20	ug/L			u
28	131249	SAMPLE	198903-004		131249	Water	02-NOV-2007 16:05	1.0	1.0			847441541001	ND	0.20	ug/L			u
29	131249	SAMPLE	198913-020		131249	Water	02-NOV-2007 16:07	1.0	1.0			847441541001	ND	0.20	ug/L			u
30	131249	CCV					02-NOV-2007 16:09	1.0	1.0	4	5.000	847441541001	5.110		ug/L	102		
31	131249	CCB					02-NOV-2007 16:12	1.0	1.0			847441541001	ND	0.20	ug/L			
32	131249	SAMPLE	198913-021		131249	Water	02-NOV-2007 16:14	1.0	1.0			847441541001	ND	0.20	ug/L			u
33	131249	SAMPLE	198913-022		131249	Water	02-NOV-2007 16:17	1.0	1.0			847441541001	ND	0.20	ug/L			u
34	131249	SAMPLE	198913-023		131249	Water	02-NOV-2007 16:19	1.0	1.0			847441541001	ND	0.20	ug/L			u
35	131249	SAMPLE	198913-024		131249	Water	02-NOV-2007 16:21	1.0	1.0			847441541001	ND	0.20	ug/L			u
36	131249	CCV					02-NOV-2007 16:23	1.0	1.0	5	7.500	847441541001	7.570		ug/L	101		
37	131249	CCB					02-NOV-2007 16:26	1.0	1.0			847441541001	ND	0.20	ug/L			
38	131249	SAMPLE	198913-025		131249	Water	02-NOV-2007 16:31	1.0	1.0			847441541001	8.4	0.20	ug/L			u
39	131249	SER	QC413457	198885-005	131249	Water	02-NOV-2007 16:33	5.0	1.0			847441541001	4.4	1.0	ug/L		9	u
40	131249	CCV					02-NOV-2007 16:36	1.0	1.0	5	7.500	847441541001	7.600		ug/L	101		
41	131249	CCB					02-NOV-2007 16:38	1.0	1.0			847441541001	ND	0.20	ug/L			

Stds used: 1=S7584 2=S7586 3=S7587 4=S7588 5=S7589
Flags used: u=use

Analyst: _____ Date: 11/2/07

Curtis & Tompkins Laboratories Sample Preparation Summary 02-NOV-2007 11:17

Batch Number : 131249
Date Extracted: 02-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S7584
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198858-003			IMTT	Water	50	mL	50	1.000000	1					HG		
198872-002			URS Corporation	Filtrate	50	mL	50	1.000000	1					HG		
198872-003			URS Corporation	Filtrate	50	mL	50	1.000000	1					HG		
198879-001			Mactec, Inc.	Water	50	mL	50	1.000000	1					HG		
198879-002			Mactec, Inc.	Water	50	mL	50	1.000000	1					HG		
198881-002			Kleinfelder	Filtrate	50	mL	50	1.000000	1					T26/HG		
198881-009			Kleinfelder	Filtrate	50	mL	50	1.000000	1					T26/HG		
198881-014			Kleinfelder	Filtrate	50	mL	50	1.000000	1					T26/HG		
198881-018			Kleinfelder	Filtrate	50	mL	50	1.000000	1					T26/HG		
198881-019			Kleinfelder	Filtrate	50	mL	50	1.000000	1					T26/HG		
198885-005			CH2M Hill	Water	50	mL	50	1.000000	1					T26/HG		MSS
198885-007			CH2M Hill	Water	50	mL	50	1.000000	1					T26/HG		
198903-004			Mactec, Inc.	Water	50	mL	50	1.000000	1					T26/HG		
198913-020			CH2M Hill	Water	50	mL	50	1.000000	1					T26/HG		
198913-021			CH2M Hill	Water	50	mL	50	1.000000	1					T26/HG		
198913-022			CH2M Hill	Water	50	mL	50	1.000000	1					T26/HG		
198913-023			CH2M Hill	Water	50	mL	50	1.000000	1					T26/HG		
198913-024			CH2M Hill	Water	50	mL	50	1.000000	1					T26/HG		
198913-025			CH2M Hill	Water	50	mL	50	1.000000	1					T26/HG		
QC413454	BLANK			Water	50	mL	50	1.000000	1					HG		
QC413455	BS			Water	50	mL	50	1.000000	1		2.5			HG		
QC413456	BSD			Water	50	mL	50	1.000000	1		2.5			HG		
QC413457	SER	of 198885-005		Water	50	mL	50	1.000000	1					HG		
QC413458	MS	of 198885-005		Water	50	mL	50	1.000000	1		2.5			HG		
QC413459	MSD	of 198885-005		Water	50	mL	50	1.000000	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/2/07

Relinquished By: _____ Received By: _____ Date: 11/2/07

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 131249
Date Digested: 11/2/07
Digested by: JXM

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2597
Page 19

	Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
	198858-003A	50.0	50.0	N	
	198872-002H	↓	↓	↓	filtrate L.F
	↓ 03↓				↓
	198879-001B				H_2O
5	↓ 02C				↓
	198881-002G				filtrate (L.F.)
	09				
	14				
	18				
10	19 ↓				↓
	198885-005B				MSS H_2O
	↓ 07A				
	198903-004H				
	198913-020A				
15	21				
	22				
	23				
	24				
	25↓				↓
20	MB QC413454				
	BS 56				
	BSD 57				
	MS 59				
	MSD ↓ 60	↓	↓	↓	
					JXM 11/2/07

Reagent ID/ LIMS# / Time	Initials / Date
S7584	JXM 11/2/07
↓	↓
S7586/87/88/89	
11:00 / 95°C	
13:00 / 95°C	
STB 808036	
JTB E22071	
K 103107	
K_2 101807	
H_2 101807	
$SnCl_2$ 103107	
—	↓

25 mL of spike solution was added to all spikes

Digestion of Samples & Standards:
ICAL Source WS#
ICV / CCV WS#
Time ON / Temperature ON
Time OFF/ Temperature OFF
concentrated H_2SO_4
concentrated HNO_3
5% $KMnO_4$
5% $K_2S_2O_8$
NaCl.hydroxylamine hydrochloride
Stannous Chloride
☐ filtered thru' 0.45 um syringe filter

11/2/07
Prep Chemist / Date

Continued from page 4
Continued on page

11/2/07
Reviewed / Date

CYANIDE

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	SM4500CN-E
Analyte:	Cyanide	Batch#:	131247
Matrix:	Water	Sampled:	10/31/07
Units:	mg/L	Received:	11/01/07
Diln Fac:	1.000	Analyzed:	11/02/07

Field ID	Type	Lab ID	Result	RL
1065DE210	SAMPLE	198879-001	ND	0.01
DUP103107	SAMPLE	198879-002	ND	0.01
	BLANK	QC413444	ND	0.01

ND= Not Detected
RL= Reporting Limit

2.0

00060

Curtis & Tompkins, Ltd.

Batch QC Report

Total Cyanide

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	SM4500CN-E
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	131247
MSS Lab ID:	198698-004	Sampled:	10/24/07
Matrix:	Water	Received:	10/25/07
Units:	mg/L	Analyzed:	11/02/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC413445	<0.01000	0.2000	0.1749	87	61-120		
MSD	QC413446		0.2000	0.1755	88	61-120	0	20
LCS	QC413447		0.2000	0.2161	108	76-120		

RPD= Relative Percent Difference

Analysis: **Cyanide**
Method: **SMWW20C4500CN-E** / EPA 335.2
Instrument: Perkin Elmer LAMBDA 25
Wavelength: 578 nm
SOP#: cyanide_rv 9

Analyst: DM
Prep Date: **11/2/2007**
Analysis Date: **11/2/2007**
Batch: 131247
Matrix: WATER

25969

INITIAL CALIBRATION DATA

Calibration Date: 5/31/07

Conc (mg/L)	ABS	RF
0.0000	0.0000	
0.0100	0.0169	1.6900
0.0200	0.0305	1.5250
0.0400	0.0617	1.5425
0.0800	0.1263	1.5788
0.1200	0.1971	1.6425
0.2000	0.3191	1.5955
0.3000	0.4858	1.6193

Correlation Coefficient (r): 0.9999
Avg Rf: 1.599083
%RSD: 3.6

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	ABS	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.3333	0.2084	0.2000	104%	90 - 110%
ICB	0.0000	0.0000	0.0000		
CCV	0.3309	0.2069	0.2000	103%	90 - 110%
CCB	0.0000	0.0000	0.0000		

Analysis: **Cyanide**
Method: **SMWW20C4500CN-E / EPA 335.2**
Instrument: Perkin Elmer LAMBDA 25
Wavelength: 578 nm

Analyst: DM
Prep Date: **11/2/2007**
Analysis Date: **11/2/2007**
Batch: 131247
Matrix: WATER

35666

SAMPLE & BATCH QC DATA

Sample ID	Vol (mL) Distilled	Final Distill Vol (mL)	Distillate Colored (mL)	Instrument Dilution	ABS	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	50.0	50.0	10.0	1.00	0.0083	**ND**	0.010					
LCS	50.0	50.0	10.0	1.00	0.3455	**0.2161**	0.010	0.5	20.0	0.200	**108**	
198698-4	50.0	50.0	10.0	1.00	0.0039	**ND**	0.010					
198698-4ms	50.0	50.0	10.0	1.00	0.2796	**0.1749**	0.010	0.5	20.0	0.200	**87**	
198698-4ms	50.0	50.0	10.0	1.00	0.2807	**0.1755**	0.010	0.5	20.0	0.200	**88**	0.3926
198626-13	50.0	50.0	10.0	1.00	0.0180	**0.0113**	0.010					
198626-14	50.0	50.0	10.0	1.00	0.0184	**0.0115**	0.010					
198698-3	50.0	50.0	10.0	1.00	0.0040	**ND**	0.010					
198698-4	50.0	50.0	10.0	1.00	0.0039	**ND**	0.010					
198879-1	50.0	50.0	10.0	1.00	0.0054	**ND**	0.010					
198879-2	50.0	50.0	10.0	1.00	0.0142	**ND**	0.010					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	76 - 120
MS/ MSD	20	61 - 120

Reviewed by/ Date: DM 11/2/07

USE = TOM 198695
Reformatted 198626
PROJECT MACTEC 198879

Notebook [illegible]

CN⁻ Spike 20% 450 [illegible] mod [illegible] 1972

Sample	Vol (ml)	Final Vol (ml)	Vol (ml) colors.	435
198626-13	50	50	10	.082
-14				.0184
198698-3				.0840
-4				.0039
-4MS	+0.5 ml (20 ug/ml dilution of $7578) 1 ml = 50			.2996
-4MSD	same as MS			.2807
10				
198879-1				.0059
-2				.0192
LCS	same as MS			.3455
MB				.0083
LCB				-.000
ICV 0.5 ml (20 ug/ml dilution of $7578) - 50			10 ml	.3333
CCV				.3309
CCB				-.000

Test for CN & S²⁻ negative -
pH all 12
Sulfamic acid added to all samples

Date : 11/2/2007 Time : 13:34:51

Concentration Results

Date: 11/2/2007 Time: 1:27:10 PM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: CYANIDE
Ordinate mode: Single wavelength
Slit: UV/VIS: 1.00 nm
Baseline: No correction (0.00 0.00)
Result Filename: 131247.RCO
Autozero performed: 11/2/2007 1:27:05 PM
Analyst: 0.00 [analyst]

Wavelength(s)		Sample ID	Ordinate	Factor	Concentration		Sample Info
578.0	0.0	ICB	-0.000	1.0000	-0.000	mg/L	
578.0	0.0	ICV	0.3333	1.0000	0.2067	mg/L	
578.0	0.0	MB	0.0083	1.0000	0.0052	mg/L	
578.0	0.0	LCS	0.3455	1.0000	0.2143	mg/L	
578.0	0.0	626-13	0.0180	1.0000	0.0112	mg/L	
578.0	0.0	626-14	0.0184	1.0000	0.0114	mg/L	
578.0	0.0	698-3	0.0040	1.0000	0.0025	mg/L	
578.0	0.0	698-4	0.0039	1.0000	0.0024	mg/L	
578.0	0.0	698-4MS	0.2796	1.0000	0.1734	mg/L	
578.0	0.0	698-4MSD	0.2807	1.0000	0.1741	mg/L	
578.0	0.0	879-1	0.0054	1.0000	0.0033	mg/L	
578.0	0.0	879-2	0.0142	1.0000	0.0088	mg/L	
578.0	0.0	CCV	0.3309	1.0000	0.2052	mg/L	
578.0	0.0	CCB	-0.000	1.0000	-0.000*	mg/L	
578.0	0.0		0.0000	1.0000	0.0000*	mg/L	Sample skipped

CALIBRATION

Date: 11/2/2007 Time: 1:27:06 PM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: CYANIDE
Ordinate mode: Single wavelength
Baseline: No correction (0.00 0.00)
Analyst: WETCHEM

Wavelength(s)		Sample ID	Concentration		Ord. value	Comment
578.0	0.0	cn1.A01	0.0000	mg/L	-0.000	
578.0	0.0	cn2.A02	0.0100	mg/L	0.0169	
578.0	0.0	cn3.A03	0.0200	mg/L	0.0305	
578.0	0.0	cn4.A04	0.0400	mg/L	0.0617	
578.0	0.0	cn5.A05	0.0800	mg/L	0.1263	
578.0	0.0	cn6.A06	0.1200	mg/L	0.1971	
578.0	0.0	cn7.A07	0.2000	mg/L	0.3191	
578.0	0.0	cn8.A08	0.3000	mg/L	0.4858	

Equation: y = 1.612521e+00 * x

Residual error: 0.002613
Correlation coefficient: 0.999884

00066

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131247
Date Started: 02-NOV-2007
Batched by : Dennis McCanna

Analysis : CYANIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
198626-013			Polymatrix	Water	CYANIDE	02-NOV-2007
198626-014			Polymatrix	Water	CYANIDE	02-NOV-2007
198698-003			Weston Solutions	Water	CYANIDE	06-NOV-2007
198698-004			Weston Solutions	Water	CYANIDE	06-NOV-2007
198879-001			Mactec, Inc.	Water	CYANIDE	05-NOV-2007
198879-002			Mactec, Inc.	Water	CYANIDE	05-NOV-2007
QC413444	BLANK			Water	CYANIDE	
QC413445	MS	of 198698-004		Water	CYANIDE	
QC413446	MSD	of 198698-004		Water	CYANIDE	
QC413447	LCS			Water	CYANIDE	

Curtis & Tompkins, Ltd.

TOTAL OIL AND GREASE DATA

Curtis & Tompkins, Ltd.

Total Oil & Grease (HEM)

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	mg/L	Analyzed:	11/05/07
Batch#:	131314		

Field ID	Type	Lab ID	Result	RL	Dil'n Fac
1065DE210	SAMPLE	198879-001	ND	4.70	0.9400
DUP103107	SAMPLE	198879-002	ND	4.70	0.9400
	BLANK	QC413715	ND	5.00	1.000

ND= Not Detected
RL= Reporting Limit

20.0

Curtis & Tompkins, Ltd.

Batch QC Report

Total Oil & Grease (HEM)

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Diln Fac:	1.000
Matrix:	Water	Batch#:	131314
Units:	mg/L	Analyzed:	11/05/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC413716	40.00	37.80	94	78-114		
BSD	QC413717	40.00	42.50	106	78-114	12	18

RPD= Relative Percent Difference

21.0

00070

Analysis: **Hexane Extractable Material (Total)**
Method: **EPA 1664A**
Matrix: Water
Silica Gel: No
SOP#: 1664_rv4.doc

Analyst: PAP
Prep Date: **05-Nov-07**
Analysis Date: **05-Nov-07**
Batch #: **131314**

BATCH QC DATA

Sample	Sample Vol (mL)	Dil'n Factor (1000/vol)	Beaker Mass (g)	Total Mass (g)	Residue Mass (g)	**Report** (mg/L)		Reporting Limit (mg/L)	Spike Used (g)	**Recovery,%**	**RPD,%**
MB	1000	1.00	2.5190	2.5207	0.0017	1.700	J	5.00			
BS	1000	1.00	2.5236	2.5614	0.0378	37.800		5.00	0.0400	94	
BSD	1000	1.00	2.5492	2.5917	0.0425	42.500		5.00	0.0400	106	12

SAMPLE DATA

Sample	Sample Vol (mL)	Dil'n Factor (1000/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report** (mg/L)	Reporting Limit (mg/L)	IDF (1000/Vs)
198664-001	1050	0.95	2.5254	2.6058	0.0804	76.571	4.76	0.952
198858-004	1060	0.94	2.5333	2.5414	0.0081	7.642	4.72	0.943
198872-002	1060	0.94	2.5490	2.5515	0.0025	ND	4.72	0.943
198872-003	1060	0.94	2.5499	2.5522	0.0023	ND	4.72	0.943
198879-001	1060	0.94	2.5295	2.5319	0.0024	ND	4.72	0.943
198879-002	1060	0.94	2.5352	2.5370	0.0018	ND	4.72	0.943
198946-001	200	5.00	2.5400	2.5653	0.0253	126.500	25.00	5.000

Note: RPD calculation includes correction for different spiking levels.

Reviewed by/ Date: DMS 11/5/07

QC Limits	RPD	Recovery
LCS/ BS/ BSD	18	78 - 114
MS/ MSD	34	63 - 130

1,566

Oil Grease (H.E.M.) Benchbook EPA 1664A Curtis & Tompkins, Ltd.

LIMS Batch #: 131314
Matrix: Water

Date: 11/5/07
Time: 12:00

Benchbook#: **BK243**
Page: **44**

Hexane Manufacturer & Lot# E33E05
Extraction Disc Lot#: 450399
Silica Gel Cleanup Used (Y / N): N
Silica Gel Manufacturer & Lot# —

Spike SS#: S75-11
Spike SS Conc (mg/L): 8000
Vol (mL) Spike Used: 5
Into Final Vol (mL): 1000
Final Spike Conc (mg/L): T=80

	Sample # / Letter	pH	Sample Vol (mL)	Mass (g)	Mass (g)*	Mass (g)*	Comments
1	MB	2	1000	2.5190	2.5208	2.5207	
	BS	↓	↓	2.5236	2.5617	2~~.5614~~	2.5614 PKH 11/5/07
	BSD	↓	↓	2.5492	2.5921	2.5917	
	198664-001	↓	1050	2.5254	2.6057	2.6058	
5	198858-004	↓	1060	2.5333	2.5413	2.5414	
	198872-003	↓	↓	2.5490	2.5518	2.5515	
	-003	↓	↓	2.5499	2.5523	2.5502	
	198879-001	↓	1060	2.5295	2.5322	2.5319	
	-002	↓	↓	2.5352	2.5371	2.5370	
10	198946-001	↓	200	2.5400	2.5657	2.5653	
15							
20							

* Constant weight must be within ± 0.0005g from previous reading.

Weight Set Number: HEM2/9907

	Openning Wt.	Ending Wt.	Limits
2 mg	0.0019	0.0019	(0.0018 to 0.0022 g)
1 g	1.0000	0.9999	(0.9950 to 1.0050 g)
5 g	4.9997	4.9997	(4.9750 to 5.0250 g)

11/5/07
Analyst / Date

11/5/07
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131314
Date Started: 05-NOV-2007
Batched by : Patrick Perin

Analysis : 1664T
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
198858-004		IMTT	Water	1664T	06-NOV-2007
198872-002		URS Corporation	Water	1664T	06-NOV-2007
198872-003		URS Corporation	Water	1664T	06-NOV-2007
198879-001		Mactec, Inc.	Water	1664T	05-NOV-2007
198879-002		Mactec, Inc.	Water	1664T	05-NOV-2007
198946-001		TRC Solutions	Water	1664T	06-NOV-2007
QC413715	BLANK		Water	1664T	
QC413716	BS		Water	1664T	
QC413717	BSD		Water	1664T	

Phenolic Compounds

Curtis & Tompkins, Ltd.

Phenolic Compounds

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Analysis:	EPA 420.1
Project#:	4084075115		
Analyte:	Phenolic Compounds	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	mg/L	Prepared:	11/04/07
Diln Fac:	1.000	Analyzed:	11/05/07
Batch#:	131298		

Field ID	Type	Lab ID	Result	RL
1065DE210	SAMPLE	198879-001	ND	0.050
DUP103107	SAMPLE	198879-002	0.064	0.050
	BLANK	QC413632	ND	0.050

ND= Not Detected
RL= Reporting Limit

14.0

Curtis & Tompkins, Ltd.

Batch QC Report

Phenolic Compounds

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Analysis:	EPA 420.1
Project#:	4084075115		
Analyte:	Phenolic Compounds	Batch#:	131298
Field ID:	ZZZZZZZZZZ	Sampled:	10/31/07
MSS Lab ID:	198872-003	Received:	10/31/07
Matrix:	Water	Prepared:	11/04/07
Units:	mg/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC413633		1.000	1.041	104	80-120		
MS	QC413634	<0.05000	1.000	1.053	105	70-130		
MSD	QC413635		1.000	1.140	114	70-130	8	30

RPD= Relative Percent Difference

15.0

Analysis: **Phenolic Compounds**
Method: **EPA 420.1**
Instrument: Perkin Elmer Lambda 25
Wavelength: 510 nm
SOP#: phenols_rv 7.doc

Analyst: DMB
Prep Date: 11/4/07
Analysis Date: 11/5/07
Batch: 131298
Matrix: Water

INITIAL CALIBRATION DATA

Calibration Date: 1/17/07

Conc (mg/L)	ABS	RF
0.0000	0.0000	
0.0500	0.0070	0.1400
0.1000	0.0125	0.1250
0.2000	0.0264	0.1320
0.5000	0.0654	0.1308
0.8000	0.1006	0.1258
1.0000	0.1290	0.1290
1.5000	0.1963	0.1309

Correlation Coefficient (r): 0.9998
Avg Rf: 0.1305
%RSD: 3.8

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	ABS	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1347	1.0323	1.0000	103%	90 - 110%
ICB	0.0001	0.0008	0.0000		
CCV	0.1343	1.0292	1.0000	103%	90 - 110%
CCB	0.0000	0.0000	0.0000		

SAMPLE & BATCH QC DATA

Sample ID	Initial Volume (mL)	Distilled to (mL)	Distillate Colored (mL)	IDF	Sample ABS	Color Blk Abs	**Report** mg/L	Reporting Limit (mg/L)	Vol Spike Added (mL)	Spike Std. Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	50	50	50.0	1.0	0.0000		**ND**	0.050					
LCS	50	50	50.0	1.0	0.1358		**1.04071**	0.050	0.05	1000.0	1.0000	**104**	
198872-003	50	50	50.0	1.0	0.0025		**ND**	0.050					
MS	50	50	50.0	1.0	0.1374		**1.05297**	0.050	0.05	1000.0	1.0000	**105**	
MSD	50	50	50.0	1.0	0.1488		**1.14033**	0.050	0.05	1000.0	1.0000	**114**	**8**
198626-013	50	50	50.0	1.0	0.0102		**0.07817**	0.050					
198626-014	50	50	50.0	1.0	0.0201		**0.15404**	0.050					
198872-002	50	50	50.0	1.0	0.0013		**ND**	0.050					
198872-003	50	50	50.0	1.0	0.0025		**ND**	0.050					
198879-001	50	50	50.0	1.0	0.0016		**ND**	0.050					
198879-002	50	50	50.0	1.0	0.0083		**0.06361**	0.050					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	30	70 - 130

Reviewed by/ Date: 11/5/07

Sample	Vol distilled	Final Vol	Vol colored	ABS
ICB	—	50ml	25ml	0.0001
★ICV	—			0.1347
MB	50 ml			-0.000
LCS				0.1358
198626-013				0.0102
-014				0.0201
198872-002				0.0013
-003				0.0025
MS -003				0.1374
MSD -003				0.1488
198879-001				0.0016
-002				0.0083
CCV	—			0.1343
CCB	—			0.000

★ Plus 0.05 ml of 1000mg/L STD (S7161) ↑ 50ml

11/5/07 11/5/07

Date : 11/5/2007 Time : 13:56:11

CALIBRATION

Date: 11/5/2007 Time: 1:56:07 PM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: PHEN107
Ordinate mode: Single wavelength
Baseline: No correction (0.00 0.00)
Analyst: WETCHEM

Wavelength(s)		Sample ID	Concentration		Ord. value	Comment
510.0	0.0	phen107.A01	0.0000	mg/L	0.0000	
510.0	0.0	phen107.A02	0.0500	mg/L	0.0070	
510.0	0.0	phen107.A03	0.1000	mg/L	0.0125	
510.0	0.0	phen107.A04	0.2000	mg/L	0.0264	
510.0	0.0	phen107.A05	0.5000	mg/L	0.0654	
510.0	0.0	phen107.A06	8.0000	unused	0.1006	
510.0	0.0	phen107.A07	1.0000	mg/L	0.1290	
510.0	0.0	phen107.A08	1.5000	mg/L	0.1963	

Equation: y = 1.303302e-01 * x

Residual error: 0.000715
Correlation coefficient: 0.999954

Date : 11/5/2007 Time : 13:59:46

Concentration Results

Date: 11/5/2007 Time: 1:56:11 PM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: PHEN107
Ordinate mode: Single wavelength
Slit: UV/VIS: 1.00 nm
Baseline: No correction (0.00 0.00)
Result Filename: 131298.RCO
Autozero performed: 11/5/2007 1:56:07 PM
Analyst: 0.00 [analyst]

Wavelength(s)		Sample ID	Ordinate	Factor	Concentration		Sample Info
510.0	0.0	ICB	0.0001	1.0000	0.0005	mg/L	
510.0	0.0	ICV	0.1347	1.0000	1.0337	mg/L	
510.0	0.0	MB	-0.000	1.0000	-0.001*	mg/L	
510.0	0.0	LCS	0.1358	1.0000	1.0421	mg/L	
510.0	0.0	626-13	0.0102	1.0000	0.0782	mg/L	
510.0	0.0	626-14	0.0201	1.0000	0.1539	mg/L	
510.0	0.0	872-2	0.0013	1.0000	0.0099	mg/L	
510.0	0.0	872-3	0.0025	1.0000	0.0193	mg/L	
510.0	0.0	872-3MS	0.1374	1.0000	1.0546	mg/L	
510.0	0.0	872-3MSD	0.1488	1.0000	1.1420	mg/L	
510.0	0.0	879-1	0.0016	1.0000	0.0125	mg/L	
510.0	0.0	879-2	0.0083	1.0000	0.0636	mg/L	
510.0	0.0	CCV	0.1343	1.0000	1.0302	mg/L	
510.0	0.0	CCB	-0.000	1.0000	-0.006*	mg/L	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131298
Date Started: 04-NOV-2007
Batched by : David Bowden

Analysis : PHENOL/WET
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
198626-013			Polymatrix	Water	PHENOL/WET	02-NOV-2007
198626-014			Polymatrix	Water	PHENOL/WET	02-NOV-2007
198872-002			URS Corporation	Water	PHENOL/WET	06-NOV-2007
198872-003			URS Corporation	Water	PHENOL/WET	06-NOV-2007
198879-001			Mactec, Inc.	Water	PHENOL/WET	05-NOV-2007
198879-002			Mactec, Inc.	Water	PHENOL/WET	05-NOV-2007
QC413632	BLANK			Water	PHENOL/WET	
QC413633	LCS			Water	PHENOL/WET	
QC413634	MS	of 198872-003		Water	PHENOL/WET	
QC413635	MSD	of 198872-003		Water	PHENOL/WET	

DISSOLVED SULFIDE

Curtis & Tompkins, Ltd.

Dissolved Sulfide

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Analysis:	SM4500S2-D
Project#:	4084075115		
Analyte:	Dissolved Sulfide	Batch#:	131253
Matrix:	Water	Sampled:	10/31/07
Units:	mg/L	Received:	11/01/07
Diln Fac:	1.000	Analyzed:	11/02/07

Field ID	Type	Lab ID	Result	RL
1065DE210	SAMPLE	198879-001	ND	0.04
DUP103107	SAMPLE	198879-002	ND	0.04
	BLANK	QC413481	ND	0.04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Sulfide

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Analysis:	SM4500S2-D
Project#:	4084075115		
Analyte:	Dissolved Sulfide	Diln Fac:	1.000
Field ID:	1065DE210	Batch#:	131253
MSS Lab ID:	198879-001	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	mg/L	Analyzed:	11/02/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC413482		0.6400	0.5917	92	90-110		
MS	QC413483	<0.04000	0.6400	0.5537	87	38-120		
MSD	QC413484		0.6400	0.5715	89	38-120	3	20

RPD= Relative Percent Difference

Analysis:	**SULFIDE dissolved**	Analyst:	DMB
Method:	**SMWW 4500S2-D**	Prep Date:	**11/02/07**
Instrument:	Perkin-Elmer Lambda 25	Analysis Date:	**11/02/07**
Wavelength:	626 nm	Batch:	**131253**
SOP#:	sulfide_376_rv 4.doc	Matrix:	Water

INITIAL CALIBRATION DATA

Calibration Date: 8/27/07

Conc (mg/L)	Absorb	RF
0.000	0.0000	
0.027	0.0092	0.3407
0.054	0.0216	0.4000
0.225	0.0878	0.3902
0.450	0.1898	0.4218
0.900	0.3777	0.4197
1.800	0.7392	0.4107

Correlation Coefficient (r):	0.9999
Avg Rf:	0.3972
%RSD:	7.6

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV/LCS	0.2350	0.5917	0.6400	92.4%	90 - 110%
ICB/MB	0.0001	0.0003	0.0000		
CCV	0.2346	0.5907	0.6400	92.3%	90 - 110%
CCB	0.0000	0.0000	0.0000		

Analysis:	**SULFIDE**	Batch:	131253
Method:	**EPA 376.2**	Prep Date:	11/02/07
Instrument:	Perkin-Elmer Lambda 25	Analysis Date:	11/02/07
Wavelength:	626 nm	Analyst:	DMB
Matrix:	Water		

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report** mg/L	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	0.0001		**ND**	0.040					
LCS	7.5000	1.0000	0.2350		**0.5917**	0.040	0.0500	96.000	0.640	**92**	
198879-001	7.5000	1.0000	0.0030		**ND**	0.040					
MS	7.5000	1.0000	0.2199		**0.5537**	0.040	0.0500	96.000	0.640	**87**	
MSD	7.5000	1.0000	0.2270		**0.5715**	0.040	0.0500	96.000	0.640	**89**	**3**
198779-001	7.5000	1.0000	0.2906		**0.7317**	0.040					
198879-001	7.5000	1.0000	0.0030		**ND**	0.040					
198879-002	7.5000	1.0000	0.0046		**ND**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	37 - 120

Normality = [(Vi * Ni)-(Vna * Nna))*16000]/Vs

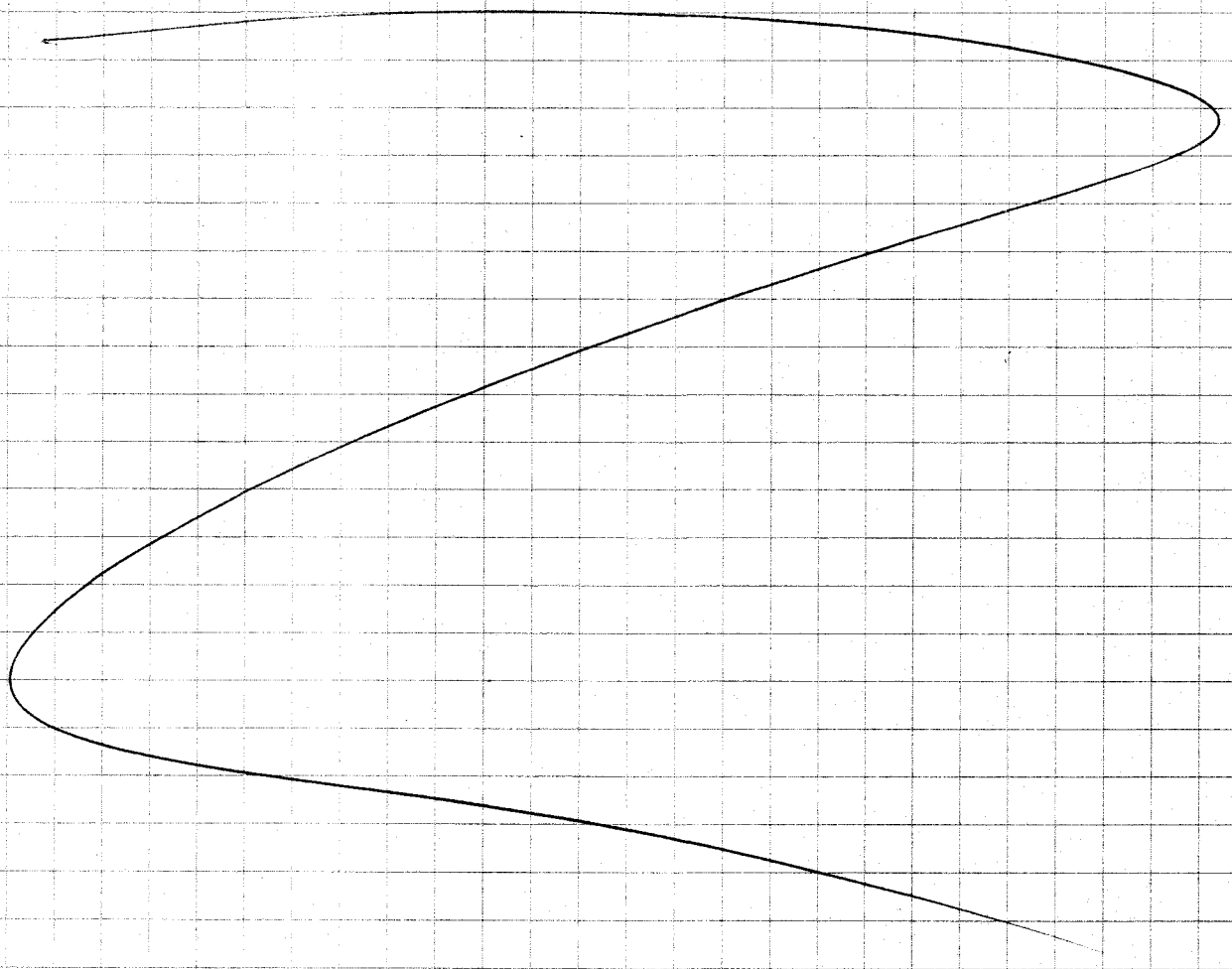
Vi	10.00	
Ni	0.0250	
Vna	7.60	
Nna	0.0250	
Vs	1.00	
Conc	960 mg/L	96 (10x dilution used for spiking)

Vi , Ni are the volume and normality of the iodine solution
Vna, Nna are the volume and normality of the sodium thiosulfate solution
Vs is the volume of the sulfide standard (1.0mL)

Reviewed by/ Date: 11/5/07

Sample	Vol Colored	ABS
ICB-MB	7.5ml	0.0001
★ ICV-LCS		0.2350
198779-001		0.2906
198879-001		0.0030
★ MS -001		0.2199
★ MSD -001		0.2270
-002		0.0046
★ CCV		0.2346
CCB		0.000

★ Plus 0.05ml of 96 mg/L STD (See EXCEL Sheet for calc)



Continued on Page

Read and Understood By

Signed 11/2/07 Date Signed 11/2/07 Date

Concentration Results

Date: 11/2/2007 Time: 1:59:32 PM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: SULF_807
Ordinate mode: Single wavelength
Slit: UV/VIS: 1.00 nm
Baseline: No correction (0.00 0.00)
Result Filename: 131253.RCO
Autozero performed: 11/2/2007 1:59:29 PM
Analyst: 0.00 [analyst]

Wavelength(s)		Sample ID	Ordinate	Factor	Concentration		Sample Info
626.0	0.0	ICB-MB	0.0001	1.0000	0.0002	mg/L	
626.0	0.0	ICV-LCS	0.2350	1.0000	0.5696	mg/L	
626.0	0.0	779-1	0.2906	1.0000	0.7042	mg/L	
626.0	0.0	879-1	0.0030	1.0000	0.0072	mg/L	
626.0	0.0	879-1MS	0.2199	1.0000	0.5328	mg/L	
626.0	0.0	879-1MSD	0.2270	1.0000	0.5500	mg/L	
626.0	0.0	879-2	0.0046	1.0000	0.0111	mg/L	
626.0	0.0	CCV	0.2346	1.0000	0.5685	mg/L	
626.0	0.0	CCB	-0.000	1.0000	-0.000*	mg/L	

Date : 11/2/2007 Time : 13:59:33

CALIBRATION

Date: 11/2/2007 Time: 1:59:30 PM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: SULF_807
Ordinate mode: Single wavelength
Baseline: No correction (0.00 0.00)
Analyst: WETCHEM

Wavelength(s)		Sample ID	Concentration		Ord. value	Comment
626.0	0.0	1.A01	0.0000	mg/L	-0.000	02SS61 Sodium Sulfide stock standard
626.0	0.0	2.A02	0.0270	mg/L	0.0092	02SS61 Sodium Sulfide stock standard
626.0	0.0	3.A03	0.0540	mg/L	0.0216	02SS61 Sodium Sulfide stock standard
626.0	0.0	4.A04	0.2250	mg/L	0.0878	02SS61 Sodium Sulfide stock standard
626.0	0.0	5.A05	0.4500	mg/L	0.1898	02SS61 Sodium Sulfide stock standard
626.0	0.0	6.A06	0.9000	mg/L	0.3777	02SS61 Sodium Sulfide stock standard
626.0	0.0	7.A07	1.8000	mg/L	0.7392	02SS61 Sodium Sulfide stock standard
626.0	0.0	8.A08	2.7000	unused	1.0501	02SS61 Sodium Sulfide stock standard

Equation: y = 4.126387e-01 * x

Residual error: 0.004067
Correlation coefficient: 0.999888

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131253
Date Started: 02-NOV-2007
Batched by : David Bowden

Analysis : DISS SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
198779-001			Reed International	Water	DISS SULFIDE	08-NOV-2007
198879-001			Mactec, Inc.	Water	DISS SULFIDE	05-NOV-2007
198879-002			Mactec, Inc.	Water	DISS SULFIDE	05-NOV-2007
QC413481	BLANK			Water	DISS SULFIDE	
QC413482	LCS			Water	DISS SULFIDE	
QC413483	MS	of 198879-001		Water	DISS SULFIDE	
QC413484	MSD	of 198879-001		Water	DISS SULFIDE	

00090

Curtis & Tompkins, Ltd.

pH

Curtis & Tompkins, Ltd.

pH

Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 9040B
Analyte:	pH	Batch#:	131273
Matrix:	Water	Received:	11/01/07
Units:	SU	Analyzed:	11/01/07 12:45
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Sampled
1065DE210	198879-001	7.5	1.0	10/31/07 14:30
DUP103107	198879-002	7.5	1.0	10/31/07 14:35

RL= Reporting Limit

16.0

Curtis & Tompkins, Ltd.

Batch QC Report

pH			
Lab #:	198879	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 9040B
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	131273
MSS Lab ID:	198872-003	Sampled:	10/31/07 11:15
Lab ID:	QC413543	Received:	10/31/07
Matrix:	Water	Analyzed:	11/01/07 10:00

MSS Result	Result	RL	RPD	Lim
7.220	7.230	1.000	0	20

RL= Reporting Limit
RPD= Relative Percent Difference

17.0

pH Analysis Benchbook **Curtis & Tompkins, Ltd.**

LIMS Batch #: 131262 131273 (SSR 2) Date: 11/1/07 Benchbook#: **BK 2539**
Matrix: Water Time: 16:00 Page: **97**

Method (check one): ☒ Water (EPA 9040b/ SM4500H+B) ☐ Soil (EPA 9045c)

Cal Std-1 ph: 4 SS#: S6704 Slope: 98.7
Cal Std-2 ph: 7 SS#: S5972 (slope limits: 92 - 102)
Cal Std-3 ph: 10 SS#: S5862

Run	Sample # / Letter	pH (S.U.)	2nd Reading* (water only)	Soil Prep Wt(g)/Vol(mL)	Comments
1	ICV	6.96			ICV/CCV ⇒ S6727
	198858-2 A	9.23	9.24		
	198872-2 J	7.18	7.19		
	-3	7.22	7.24		
5	SDUP-3	7.23	7.25		RPD ⇒ 0.138%.
	CCV	6.95			
	198879-1 A	7.49	7.50		@ 12:45
	-2	7.52			
	CCV	7.00			
10					
15					
20					
25					

* 2nd aliquot must be within 0.1 SU

11/1/07
Analyst / Date

11/5/07
Reviewed by / Date

00094

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131273
Date Started: 02-NOV-2007
Batched by : Stephanie Jim

Analysis : PH
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
198858-002		IMTT	Water	PH	06-NOV-2007
198872-002		URS Corporation	Water	PH	06-NOV-2007
198872-003		URS Corporation	Water	PH	06-NOV-2007
198879-001		Mactec, Inc.	Water	PH	05-NOV-2007
198879-002		Mactec, Inc.	Water	PH	05-NOV-2007
QC413543	SDUP of 198872-003		Water	PH	

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 198880
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 Presidio Level : III

Sample ID	Lab ID
1065EX357[4.0]	198880-001
1065EX358[4.0]	198880-002
TB103107	198880-003
1065EX357RB358	198880-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 11/27/2007
Project Manager

Signature: _____ Date: 11/27/2007
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198880**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**11/01/07**
Samples Received:	**11/01/07**

This hardcopy data package contains sample and QC results for two soil samples and two water samples, requested for the above referenced project on 11/01/07. The samples were received on ice and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Water:
No analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:
5035 samples not analyzed within 48 hours were frozen. High surrogate recovery was observed for bromofluorobenzene (FID) in 1065EX357[4.0] (lab # 198880-001), due to interference from coeluting hydrocarbon peaks; the corresponding trifluorotoluene (FID) surrogate recovery was within limits. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 131365; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:
Diesel C12-C24 was detected between the MDL and the RL in the method blank for batch 131317; this analyte was detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:
Matrix spikes were not performed for this analysis due to insufficient sample volume. Many analytes were detected between the MDL and the RL in the method blank for batch 131331; these analytes were not detected in samples at or above the RL. Methylene chloride was detected between the MDL and the RL in TB103107 (lab # 198880-003) and 1065EX357RB358 (lab # 198880-004); this analyte is a common laboratory contaminant. Sample TB103107 (lab # 198880-003) had approximately 1 mL of headspace in the vial associated with reported results. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:
5035 samples not analyzed within 48 hours were frozen. High responses were observed for a number of analytes in the CCV analyzed 11/05/07 12:29; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b". Low response was observed for

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198880**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**11/01/07**
Samples Received:	**11/01/07**

Volatile Organics by GC/MS (EPA 8260B) Soil:
trichlorofluoromethane in the CCV analyzed 11/02/07 10:25; this analyte met minimum response criteria. High surrogate recoveries were observed for bromofluorobenzene in 1065EX357[4.0] (lab # 198880-001) and the MS/MSD of 1065EX352[4.0] (lab # 198818-004), due to matrix interference; these high surrogate recoveries were confirmed by re-analysis. Acetone and methylene chloride were detected between the MDL and the RL in the method blank for batch 131245; these analytes were not detected in the sample at or above the RL. Methylene chloride was detected between the MDL and the RL in 1065EX357[4.0] (lab # 198880-001) and 1065EX358[4.0] (lab # 198880-002); this analyte is a common laboratory contaminant. 1065EX357[4.0] (lab # 198880-001) was diluted due to high levels of hydrocarbons and high levels of non-target analytes. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Water:
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Soil:
1065EX357[4.0] (lab # 198880-001) and 1065EX358[4.0] (lab # 198880-002) were diluted due to the amber color of the sample extracts. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A) Water:
Barium was detected between the MDL and the RL in the method blank for batch 131530; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A) Soil:
Low recoveries were observed for antimony in the MS/MSD of 1065EX359[4.0] (lab # 198903-001); the BS/BSD were within limits, the associated RPD was within limits, and the post digest spike was within limits. High recoveries were observed for copper, lead, and zinc; the BS/BSD were within limits, the associated RPDs were within limits, and the post digest spike was within limits. High % difference was observed for beryllium in the serial dilution of 1065EX359[4.0] (lab # 198903-001). Many analytes were detected between the MDL and the RL in the method blank for batch 131284; these analytes were either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198880**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**11/01/07**
Samples Received:	**11/01/07**

Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

198880 3820

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Bldg 1063
CITY / STATE: San Francisco, CA ZIP:

6MV(SOC's EPA 8260B + SM6200B)

PROJECT NAME: Bldg 1065 - Excavation 3

JOB NO.: 408807515 C2.4

SAMPLERS (SIGNATURE):

SAMPLERS INITIALS (PRINT): SRG

SAMPLING DATE: 10/31/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES (including VOCs (8260B) BTEX + Methanol; TPHg (8015M); TPHd+TPHmo-silica gel; PAHs (8270-SIM); Title 22 Metals; Cyanide; Dissolved Sulfide; pH (150.1); Phenols (420.1); Oil & grease (1664); TRPH (1664); Arsenic, Cadmium, Chromium, Nickel, Silver, Zinc & Mercury)	FOR LAB USE ONLY
830	X		SO	1065EX357[40]	-6N 8E-4' SW		7	X X X X X	
~~1615~~	~~X~~		~~SO~~	~~1065EX356[40]~~	~~-17N 10E-4' SW~~		~~4~~	~~X~~	
1430	X		W	1065DEZ10	Holding Tank		7	X X X X X X X	
1435	X		W	DUP103107	Dup		7	X X X X X X X	
1015	X		SO	1065EX358[40]	-17N 10E-4' SW	No Encores - gravel	7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	10/31 07 1500		10-31-07			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS: LVL 3 Data Validation
48 hr TAT on water samples - Standard TAT on Soil

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

10/31/2007 06:18 PM

Mactec-Petaluma 707-793-3918 2/3

MACTEC

CHAIN OF CUSTODY RECORD

198880

3821

ACTEC Engineering and Consulting, Inc.
41 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Bldg 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Bldg 1065
JOB NO.: 408407.5115 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 10/31/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES (VOCs (8260B), TPHg (8015M), TPHd+TPHmo (8015M), PAHs (8270 SIM), Title 22 Metals)	FOR LAB USE ONLY
NA			W	TB103107			3	X X	
900			W	1065 EX357RB EX358	Equipment Blank		12	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	10/31/07 1500		10-31-07			

*MATRIX
ER - W
/ SEDIMENT - SO
ER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS: Standard TAT

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

10/31/2007 06:18 PM

Mactec-Petaluma 707-793-3918 3/3

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 198880 Date Received: 10-31-07 Number of Coolers: 1
Client: ~~Presidio~~ Mactec Project: Presidio

A. Preliminary Examination Phase
Date Opened: 10-31-07 By (print): Faith Nichols (sign) Faith

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: Wet Ice
9. If required, was sufficient ice used? Samples should be <=6 degrees C. ..... (YES) NO
Type of ice: Wet Temperature: No temp blank, all cold
10. Were Encore sampling devices present in the cooler? ..... (YES) NO
If YES, enter time they were transferred to the freezer 1600

B. Login Phase
Date Logged In: ~~10~~ 11-1-07 By (print): Faith Nichols (sign) Faith

1. Did all bottles arrive unbroken? ..... (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
3. Did bottle labels agree with custody papers? ..... (YES) NO
4. Were appropriate containers used for the tests indicated? ..... (YES) NO
5. Were correct preservatives added to samples? ..... (YES) NO
6. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
8. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, give details below.
Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

_____

_____

_____

_____

_____

TPH-PURGEABLE HYDROCARBONS IN WATER

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	131223
Units:	ug/L	Sampled:	10/31/07
Diln Fac:	1.000	Received:	11/01/07

Field ID: TB103107 Lab ID: 198880-003
Type: SAMPLE Analyzed: 11/02/07

Analyte	Result	RL	MDL
Gasoline C7-C12	27 J	50	14

Surrogate	%REC	Limits
Trifluorotoluene (FID)	86	65-135
Bromofluorobenzene (FID)	94	65-135

Field ID: EX357RBEX358 (1065) Lab ID: 198880-004
Type: SAMPLE Analyzed: 11/02/07

Analyte	Result	RL	MDL
Gasoline C7-C12	31 J	50	14

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	65-135
Bromofluorobenzene (FID)	94	65-135

Type: BLANK Analyzed: 11/01/07
Lab ID: QC413362

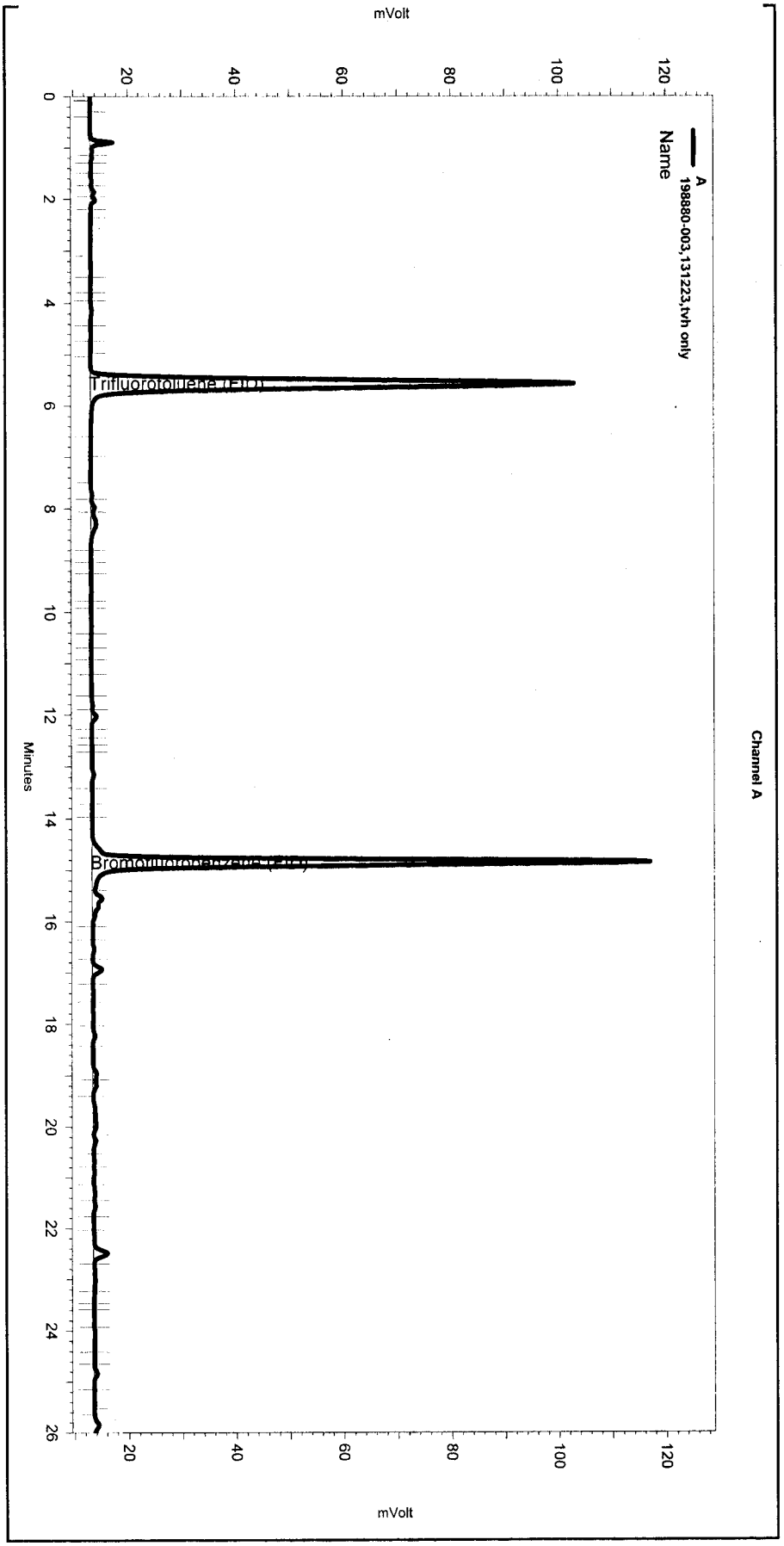
Analyte	Result	RL	MDL
Gasoline C7-C12	ND	50	14

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	65-135
Bromofluorobenzene (FID)	90	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\305.seq**
Sample Name: **198880-003,131223,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\305_020**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/2/2007 1:25:57 AM
Analysis Date: 11/2/2007 12:06:28 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.3



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

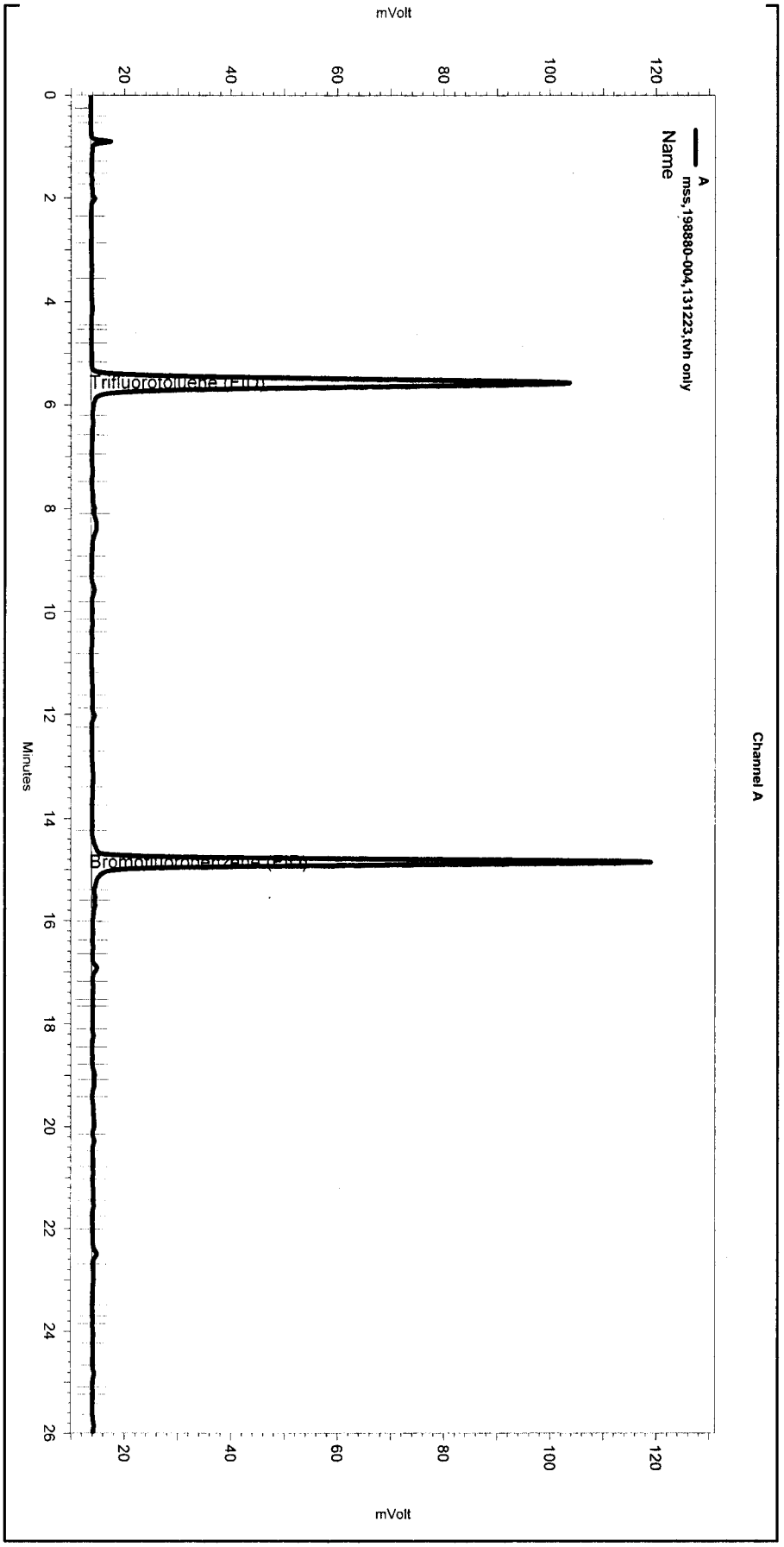
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\305_020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\305.seq**
Sample Name: **mss,198880-004,131223,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\305_021**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2, Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/2/2007 2:01:43 AM
Analysis Date: 11/2/2007 7:51:13 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: g1.3



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

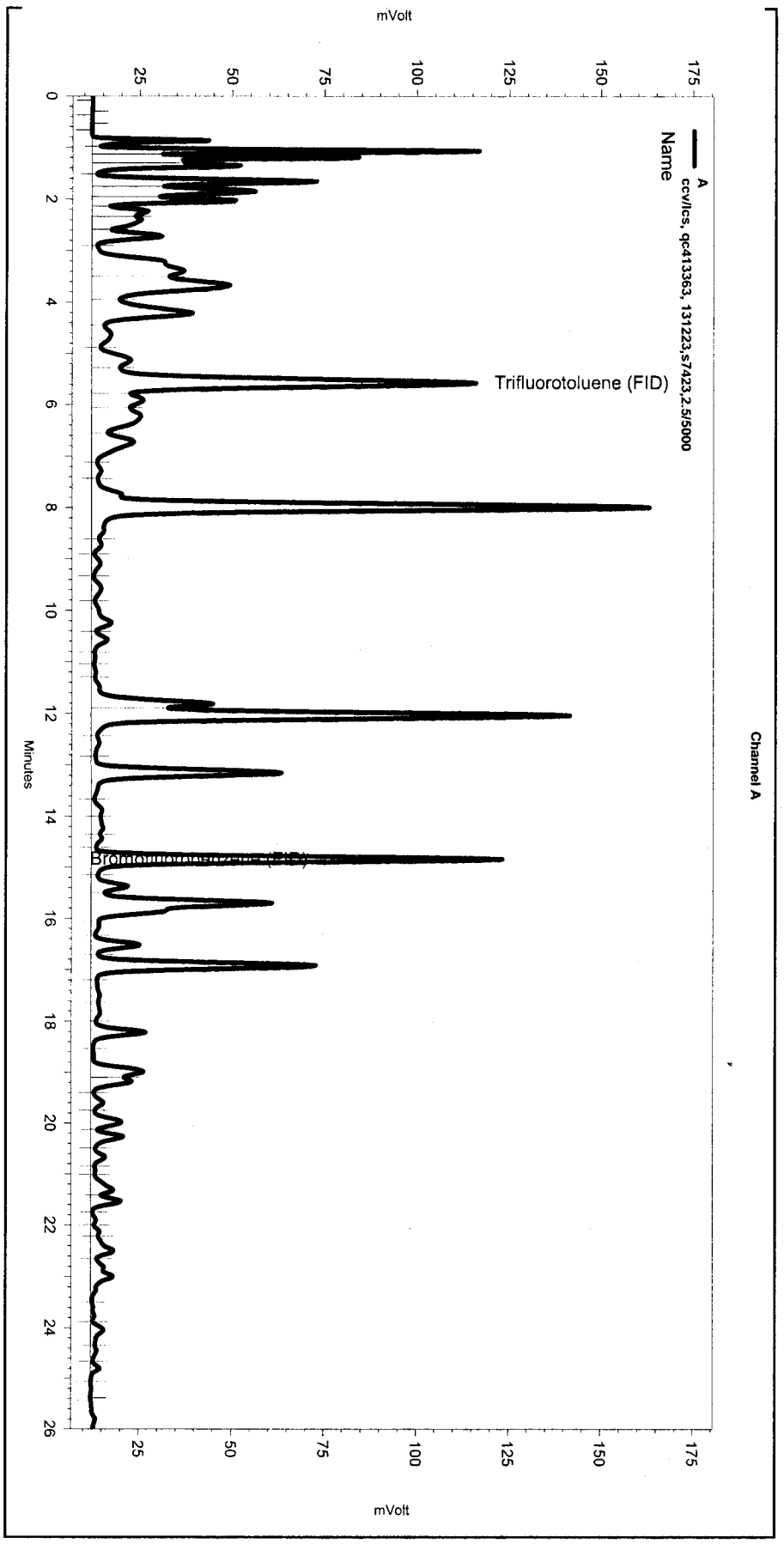
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\305_021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\305.seq**
Sample Name: **ccv/lcs, qc413363, 131223,s7423,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\305_003**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/1/2007 12:44:02 PM
Analysis Date: 11/2/2007 7:49:57 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\305_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413363	Batch#:	131223
Matrix:	Water	Analyzed:	11/01/07
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	980.9	98	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	65-135
Bromofluorobenzene (FID)	98	65-135

3.0

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	EX357RBEX358 (1065)	Batch#:	131223
MSS Lab ID:	198880-004	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/01/07
Diln Fac:	1.000		

Type: MS Lab ID: QC413364

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	30.90	2,000	1,908	94	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	96	65-135

Type: MSD Lab ID: QC413365

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,842	91	65-135	4	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	65-135
Bromofluorobenzene (FID)	99	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 327389838001
Units : ng

Name : MBTXE TFT/BFB 270
Date : 27-SEP-2007 17:55
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	270_011	327389838011	BTXE_1	27-SEP-2007 17:55	S7260 (1000X), S7273 (5000X)
L2	270_012	327389838012	MBTXE_2	27-SEP-2007 18:32	S7258 (1250X), S7273 (5000X)
L3	270_013	327389838013	MBTXE_3	27-SEP-2007 19:09	S7258 (500X), S7273 (5000X)
L4	270_014	327389838014	MBTXE_4	27-SEP-2007 19:46	S7258 (125X), S7273 (5000X)
L5	270_015	327389838015	MBTXE_5	27-SEP-2007 20:23	S7257 (1000X), S7273 (5000X)
L6	270_016	327389838016	MBTXE_6	27-SEP-2007 21:00	S7257 (500X), S7273 (5000X)
L7	270_017	327389838017	MBTXE_7	27-SEP-2007 21:38	S7257 (250X), S7273 (5000X)
L8	270_018	327389838018	MTBE_7	27-SEP-2007 22:15	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2574.8	2543.4	2652.4	2657.1	2526.3	2598.4	2628.9	2500.5	AVRG		3.87E-4		2585.2	2	0.995	20	
Bromofluorobenzene (FID)	A	2167.6	2036.9	2108.7	2121.6	2053.1	2054.6	2101.1	2030.0	AVRG		4.80E-4		2084.2	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-2	450.0	3	450.0	3	450.0	-2	450.0	1	450.0	2	450.0	-3
Bromofluorobenzene (FID)	A	450.0	4	450.0	-2	450.0	1	450.0	2	450.0	-1	450.0	-1	450.0	1	450.0	-3

CP 09/28/07 : Can not report MTBE from channel C. Channel C will be confirm only.

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCVOA Water: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 GCVOA Water
EPA 8015B

Inst : GC07 Name : GC07 GAS 295
Calnum : 327425380001 Cal Date : 22-OCT-2007

ICV 327425380018 (295_018 22-OCT-2007) stds: S7423 (1000X), S7273 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1690.1	1688.0	10000	9988	ng	0	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198880 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC413363 IDF : 1.0
Seqnum : 327439892003.4 File : 305_003 Time : 01-NOV-2007 12:44
Standards: S7423 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1657.9	5000	4905	ng	-2	15	u
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	2793.4	450.0	486.2	ng	8	15	u
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	2039.6	450.0	440.4	ng	-2	15	u

Analyst: PDM Date: 11/02/07 Reviewer: MMP Date: 11/08/07

u=use

327439892003.4

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327439892017 File : 305_017 Time : 01-NOV-2007 23:38
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1519.5	15000	13490	ng	-10	15	
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	3144.5	450.0	547.3	ng	**22**	15	c+
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	2052.3	450.0	443.1	ng	-2	15	

PDM 11/02/07 : PID surrogates are not applicable.

PDM 11/02/07 [Trifluorotoluene (FID) A]: Passes control limits.

Analyst: PDM Date: 11/02/07 Reviewer: LH Date: 11/07/07

+=high bias c=CCV

327439892017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327439892026 File : 305_026 Time : 02-NOV-2007 05:00
Standards: S7423 (1000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1465.3	10000	8670	ng	-13	15	
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	2889.5	450.0	503.0	ng	12	15	
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	1996.6	450.0	431.1	ng	-4	15	

PDM 11/02/07 : PID surrogates are not applicable.

PDM 11/02/07 : Gas C6-C12 N/A for batch

Analyst: PDM Date: 11/02/07 Reviewer: LH Date: 11/07/07

327439892026

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327389838

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 09/27/07 17:18
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
010	270_010	IB	CALIB			09/27/07 17:18	1.0	1
011	270_011	ICAL	BTXE_1			09/27/07 17:55	1.0	2 1
012	270_012	ICAL	MBTXE_2			09/27/07 18:32	1.0	3 1
013	270_013	ICAL	MBTXE_3			09/27/07 19:09	1.0	3 1
014	270_014	ICAL	MBTXE_4			09/27/07 19:46	1.0	3 1
015	270_015	ICAL	MBTXE_5			09/27/07 20:23	1.0	4 1
016	270_016	ICAL	MBTXE_6			09/27/07 21:00	1.0	4 1
017	270_017	ICAL	MBTXE_7			09/27/07 21:38	1.0	4 1
018	270_018	ICAL	MTBE_7			09/27/07 22:15	1.0	5 1
019	270_019	X	IB			09/27/07 22:52	1.0	1
020	270_020	ICV	MBTXE			09/27/07 23:29	1.0	6 1
021	270_021	X	MBTXE			09/28/07 00:06	1.0	6 1

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Standards used: 1=S7273 2=S7260 3=S7258 4=S7257 5=S6302 6=S7263

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327425380

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 10/22/07 09:40
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	295_001	X	IB			10/22/07 09:40	1.0	1
002	295_002	X	IB			10/22/07 10:15	1.0	1
003	295_003	X	ICAL			10/22/07 10:50	1.0	2 1
004	295_004	X	ICAL			10/22/07 12:00	1.0	3 1
005	295_005	X	ICAL			10/22/07 12:35	1.0	4 1
006	295_006	X	ICAL			10/22/07 13:45	1.0	5 1
007	295_007	X	ICAL			10/22/07 15:09	1.0	5 1
008	295_008	X	IB			10/22/07 16:45	1.0	1
009	295_009	X	ICAL			10/22/07 17:21	1.0	6 1
010	295_010	X	IB			10/22/07 18:37	1.0	1
011	295_011	IB	CALIB			10/22/07 19:13	1.0	1
012	295_012	ICAL	TVH 1			10/22/07 19:49	1.0	2 1
013	295_013	ICAL	TVH 2			10/22/07 20:24	1.0	3 1
014	295_014	ICAL	TVH 3			10/22/07 21:00	1.0	4 1
015	295_015	ICAL	TVH 4			10/22/07 21:36	1.0	5 1
016	295_016	ICAL	TVH 5			10/22/07 22:11	1.0	5 1
017	295_017	X	IB			10/22/07 22:47	1.0	1
018	295_018	ICV	TVH			10/22/07 23:23	1.0	6 1
019	295_019	X	ICV			10/22/07 23:59	1.0	6 1
020	295_020	X	IB			10/23/07 00:35	1.0	1
021	295_021	CMARKER				10/23/07 01:10	1.0	7 1

Analyst: MJM Date: 10/24/07 Reviewer: LH Date: 10/24/07

Standards used: 1=S7273 2=S7476 3=S6986 4=S6985 5=S6984 6=S7423 7=S6725

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327439892

Instrument : GC07 Begun : 11/01/07 11:32
Method : EPA 8015B, EPA 8021B SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	305_001	X	CMARK			11/01/07 11:32	1.0	1 2
002	305_002	X	CCV			11/01/07 12:08	1.0	3 2
003	305_003	CCV/LCS	QC413363	Water	131223	11/01/07 12:44	1.0	4 2
004	305_004	X	CCV			11/01/07 13:26	1.0	3 2
005	305_005	X	IB			11/01/07 14:21	1.0	2
006	305_006	X	IB			11/01/07 14:57	1.0	2
007	305_007	X	IB			11/01/07 16:10	1.0	2
008	305_008	BLANK	QC413362	Water	131223	11/01/07 16:46	1.0	2
009	305_009	SAMPLE	198881-001	Water	131223	11/01/07 18:52	1.0	2
010	305_010	SAMPLE	198881-002	Water	131223	11/01/07 19:28	1.0	2
011	305_011	SAMPLE	198881-009	Water	131223	11/01/07 20:03	1.0	2
012	305_012	SAMPLE	198881-014	Water	131223	11/01/07 20:39	1.0	2
013	305_013	SAMPLE	198881-018	Water	131223	11/01/07 21:15	1.0	2
014	305_014	SAMPLE	198881-019	Water	131223	11/01/07 21:51	1.0	2
015	305_015	MS	QC413364	Water	131223	11/01/07 22:26	1.0	4 2
016	305_016	MSD	QC413365	Water	131223	11/01/07 23:02	1.0	4 2
017	305_017	CCV	TVH			11/01/07 23:38	1.0	4 2
018	305_018	X	CCV			11/02/07 00:14	1.0	4 2
019	305_019	X	CMARK			11/02/07 00:50	1.0	1 2
020	305_020	SAMPLE	198880-003	Water	131223	11/02/07 01:25	1.0	2
021	305_021	MSS	198880-004	Water	131223	11/02/07 02:01	1.0	2
022	305_022	SAMPLE	198903-004	Water	131223	11/02/07 02:37	1.0	2
023	305_023	SAMPLE	198903-005	Water	131223	11/02/07 03:13	1.0	2
024	305_024	SAMPLE	198893-002	Water	131223	11/02/07 03:49	1.0	2
025	305_025	X	CCV			11/02/07 04:24	1.0	4 2
026	305_026	CCV	TVH			11/02/07 05:00	1.0	4 2
027	305_027	X	CMARK			11/02/07 05:36	1.0	1 2

Analyst: PDM Date: 11/02/07 Reviewer: _____ Date: _____

Standards used: 1=S7569 2=S7356 3=S7564 4=S7423

REPORTING SUMMARY FOR 198880 GCVOA Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
198880-003	GC07	11/02/07 01:25	1.0	+	+	+	
198880-004	GC07	11/02/07 02:01	1.0	+	+	+	
QC413362	GC07	11/01/07 16:46	1.0	+	+	+	
QC413363	GC07	11/01/07 12:44	1.0	+	+	+	
QC413364	GC07	11/01/07 22:26	1.0	+	+	+	
QC413365	GC07	11/01/07 23:02	1.0	+	+	+	

TPH-PURGEABLE HYDROCARBONS IN SOIL

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Analysis:	EPA 8015B
Project#:	4084075115		
Matrix:	Soil	Sampled:	10/31/07
Units:	mg/Kg	Received:	11/01/07
Diln Fac:	1.000	Analyzed:	11/06/07
Batch#:	131365		

Field ID:	1065EX357[4.0]	Basis:	dry
Type:	SAMPLE	Moisture:	16%
Lab ID:	198880-001	Prep:	EPA 5035

Analyte	Result	RL	MDL
Gasoline C7-C12	7.4	0.19	0.013

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	65-135
Bromofluorobenzene (FID)	248 *	65-135

Field ID:	1065EX358[4.0]	Basis:	dry
Type:	SAMPLE	Moisture:	10%
Lab ID:	198880-002	Prep:	EPA 5030B

Analyte	Result	RL	MDL
Gasoline C7-C12	0.24 J	1.1	0.076

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	71-132
Bromofluorobenzene (FID)	90	69-145

Type:	BLANK	Basis:	as received
Lab ID:	QC413919	Prep:	EPA 5035

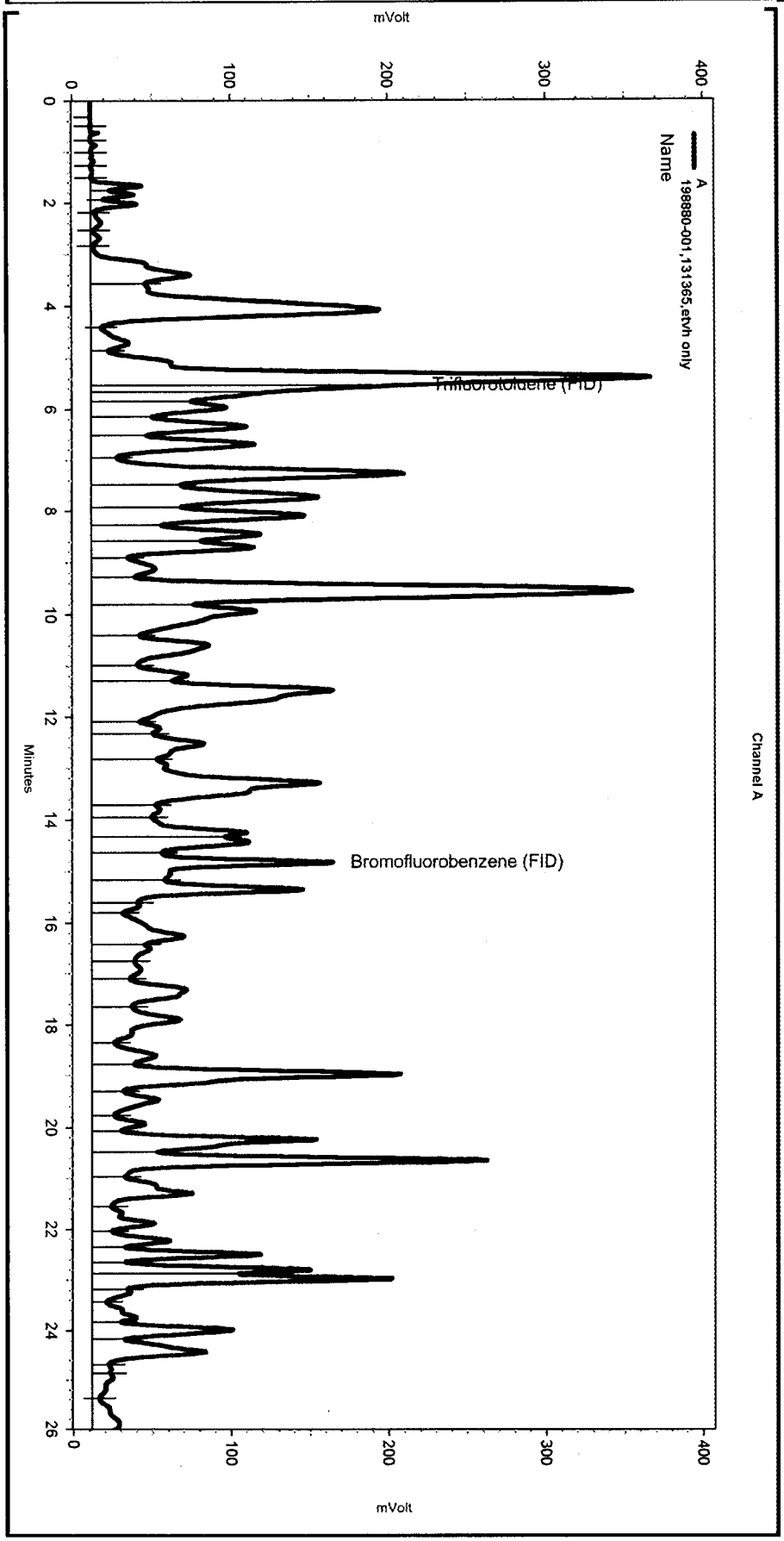
Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	71-132
Bromofluorobenzene (FID)	95	69-135

*= Value outside of QC limits; see narrative
J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\310.seq**
Sample Name: **198880-001,131365,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\310_009**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/6/2007 3:03:29 PM
Analysis Date: 11/7/2007 10:23:36 AM
Sample Amount: 6.41 Multiplier: 6.41
Vial & pH or Core ID: d



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

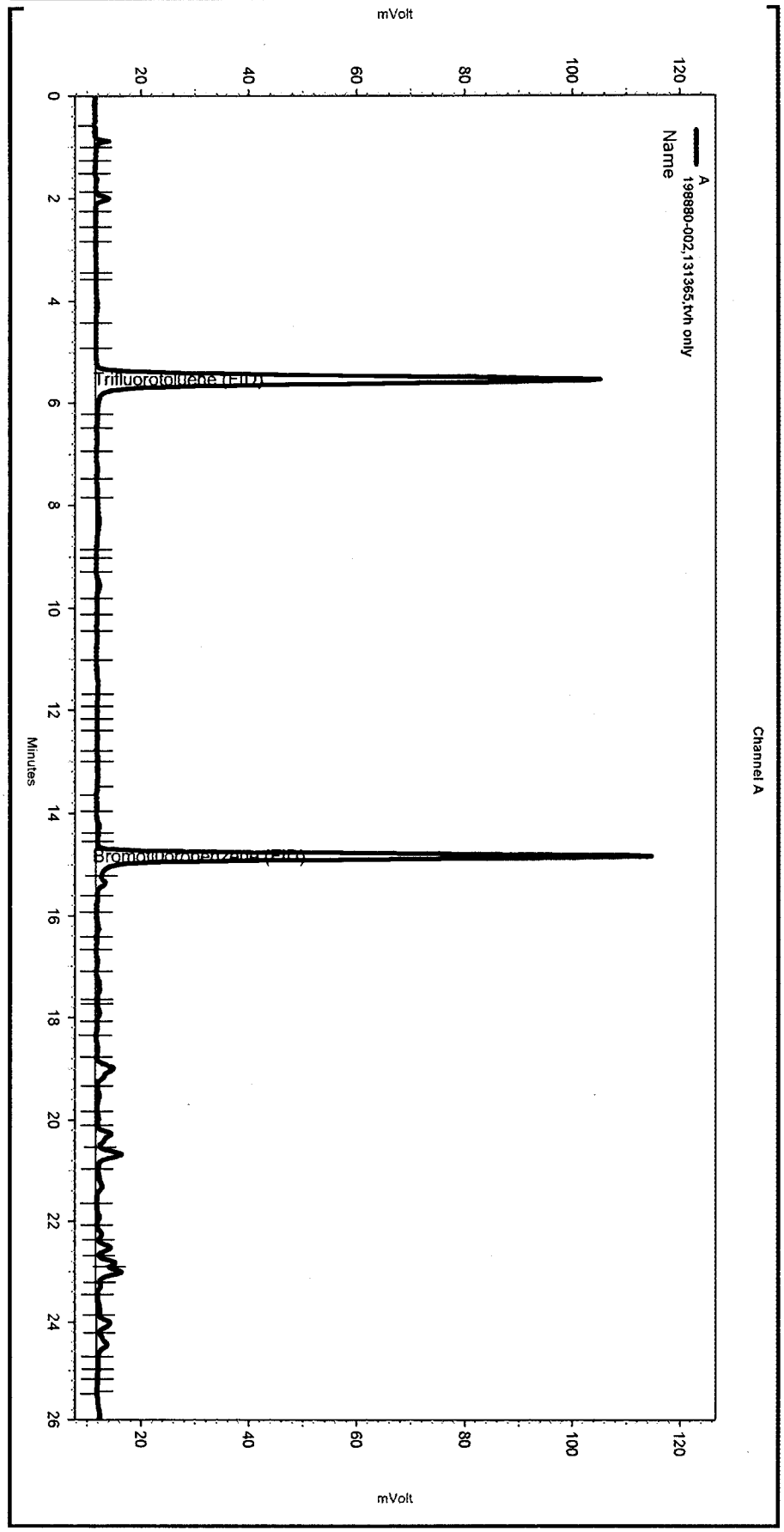
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	5.519	0	0
Yes	Split Peak	5.651	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\310.seq**
Sample Name: **198880-002,131365,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\310_010**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/6/2007 3:39:18 PM
Analysis Date: 11/7/2007 10:09:49 AM
Sample Amount: 1.04 Multiplier: 1.04
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

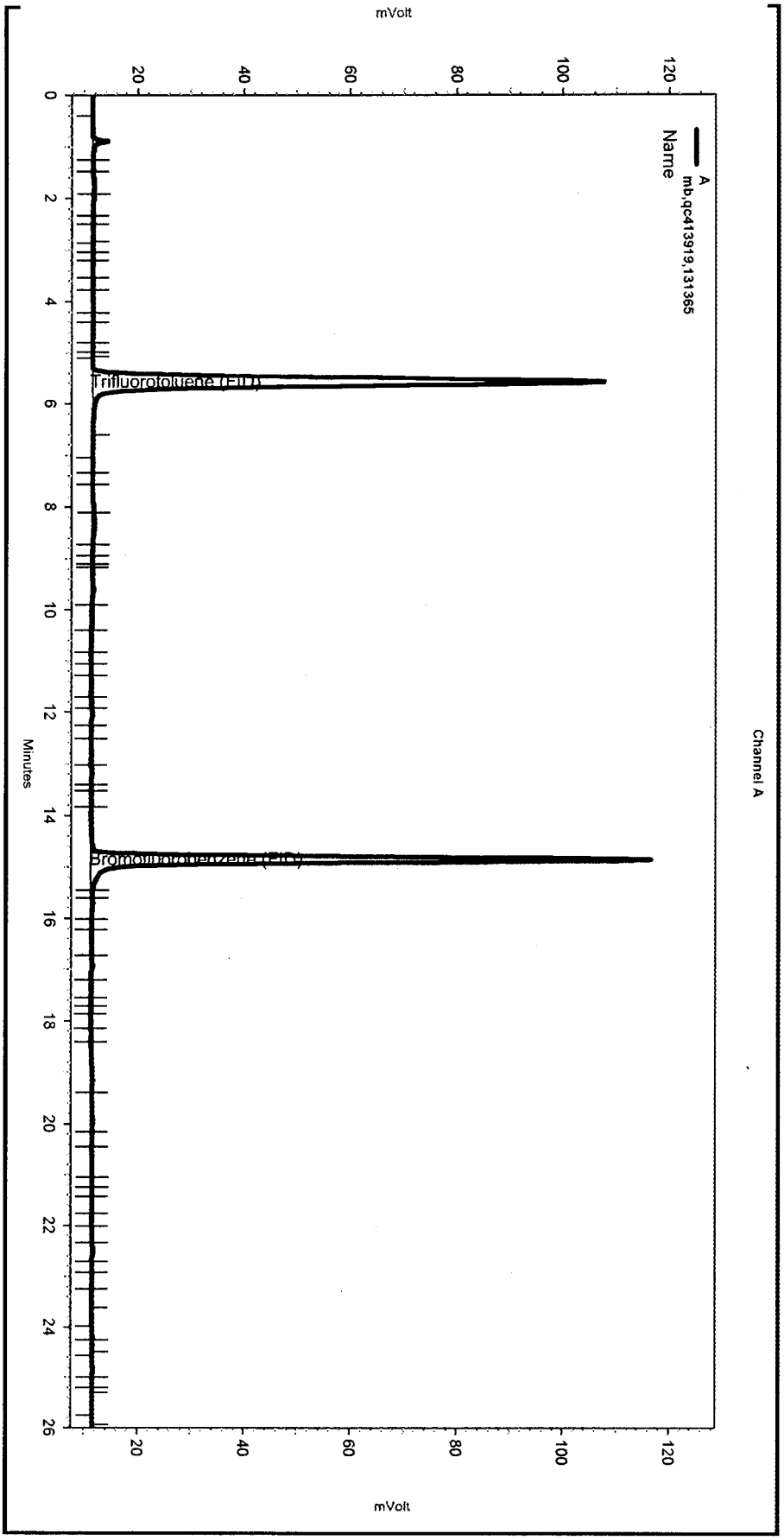
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\310.seq**
Sample Name: **mb,qc413919,131365**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\310_006**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/6/2007 12:37:02 PM
Analysis Date: 11/7/2007 10:09:31 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

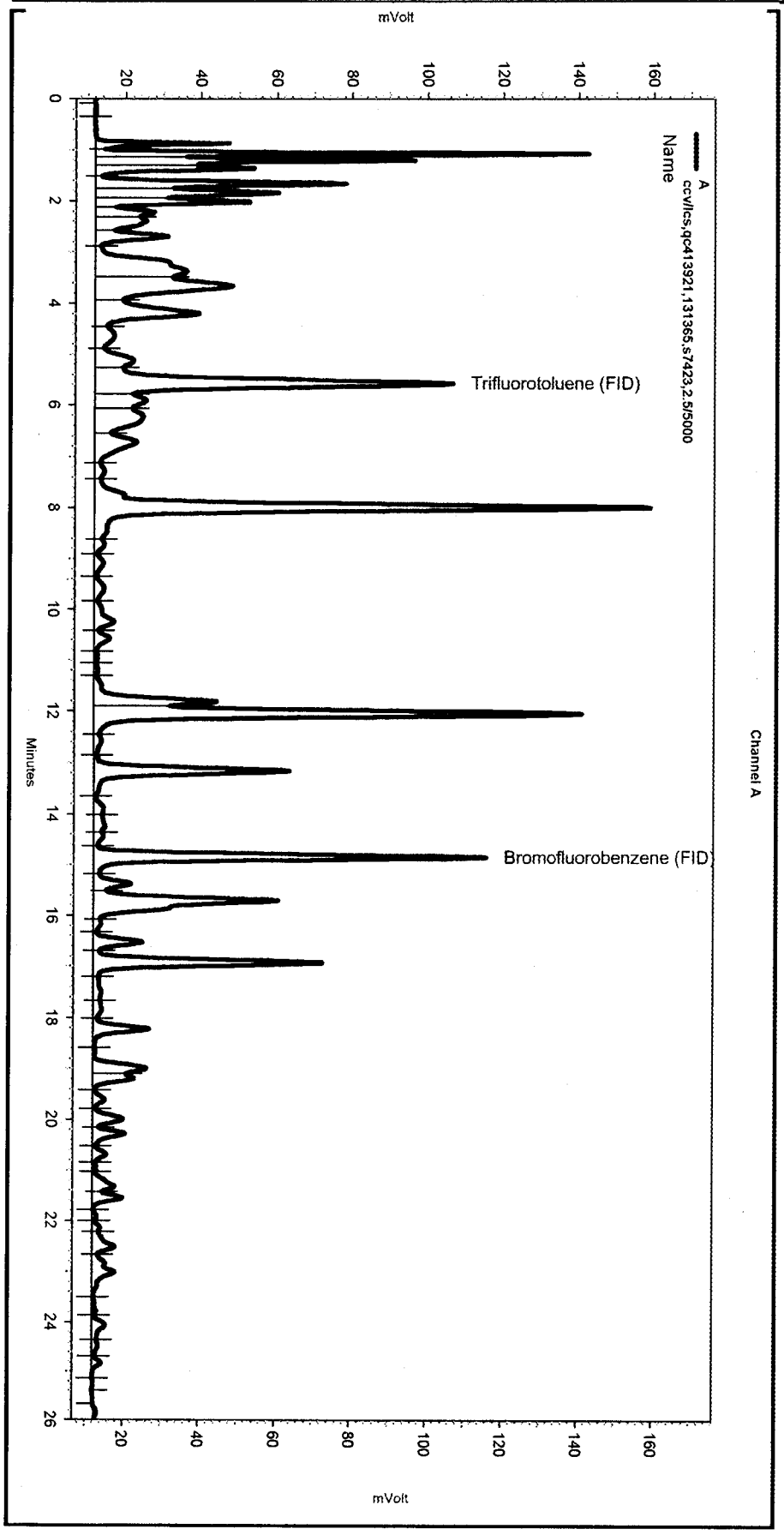
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\310.seq**
Sample Name: **ccv/lcs,qc413921,131365,s7423,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\310_003**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1, Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/6/2007 10:05:55 AM
Analysis Date: 11/7/2007 10:09:19 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC413921	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131365
Units:	mg/Kg	Analyzed:	11/06/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.765	95	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	71-132
Bromofluorobenzene (FID)	92	69-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX359[4.0]	Diln Fac:	1.000
MSS Lab ID:	198903-001	Batch#:	131365
Matrix:	Soil	Sampled:	11/01/07
Units:	mg/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/06/07

Type: MS Moisture: 16%
Lab ID: QC413922

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.04333	2.781	2.334	82	75-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	71-132
Bromofluorobenzene (FID)	95	69-135

Type: MSD Moisture: 16%
Lab ID: QC413923

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.971	1.605	79	75-120	4	25

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	71-132
Bromofluorobenzene (FID)	95	69-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 327389838001
Units : ng

Name : MBTXE TFT/BFB 270
Date : 27-SEP-2007 17:55
X Axis : R

Level	File	Segnum	Sample ID	Analyzed	Stds
L1	270_011	327389838011	BTXE_1	27-SEP-2007 17:55	S7260 (1000X), S7273 (5000X)
L2	270_012	327389838012	MBTXE_2	27-SEP-2007 18:32	S7258 (1250X), S7273 (5000X)
L3	270_013	327389838013	MBTXE_3	27-SEP-2007 19:09	S7258 (500X), S7273 (5000X)
L4	270_014	327389838014	MBTXE_4	27-SEP-2007 19:46	S7258 (125X), S7273 (5000X)
L5	270_015	327389838015	MBTXE_5	27-SEP-2007 20:23	S7257 (1000X), S7273 (5000X)
L6	270_016	327389838016	MBTXE_6	27-SEP-2007 21:00	S7257 (500X), S7273 (5000X)
L7	270_017	327389838017	MBTXE_7	27-SEP-2007 21:38	S7257 (250X), S7273 (5000X)
L8	270_018	327389838018	MTBE_7	27-SEP-2007 22:15	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2574.8	2543.4	2652.4	2657.1	2526.3	2598.4	2628.9	2500.5	AVRG		3.87E-4		2585.2	2	0.995	20	
Bromofluorobenzene (FID)	A	2167.6	2036.9	2108.7	2121.6	2053.1	2054.6	2101.1	2030.0	AVRG		4.80E-4		2084.2	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-2	450.0	3	450.0	3	450.0	-2	450.0	1	450.0	2	450.0	-3
Bromofluorobenzene (FID)	A	450.0	4	450.0	-2	450.0	1	450.0	2	450.0	-1	450.0	-1	450.0	1	450.0	-3

CP 09/28/07 : Can not report MTBE from channel C. Channel C will be confirm only.

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

327389838001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCVOA Soil: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

327425380001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 GCVOA Soil
EPA 8015B

Inst : GC07 Name : GC07 GAS 295
Calnum : 327425380001 Cal Date : 22-OCT-2007

ICV 327425380018 (295_018 22-OCT-2007) stds: S7423 (1000X), S7273 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1690.1	1688.0	10000	9988	ng	0	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198880 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC413921 IDF : 1.0
Seqnum : 327446934003.1 File : 310_003 Time : 06-NOV-2007 10:05
Standards: S7423 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1610.6	5000	4765	ng	-5	15	u
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	2593.5	450.0	451.4	ng	0	15	u
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	1923.0	450.0	415.2	ng	-8	15	u

MJM 11/07/07 : PID surrogates are not applicable. [general version]

Analyst: MJM Date: 11/08/07 Reviewer: LH Date: 11/08/07

u=use

327446934003.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : BTXE IDF : 1.0
Seqnum : 327446934014 File : 310_014 Time : 06-NOV-2007 18:02
Cal : 327389838001 Caldate : 27-SEP-2007
Standards: S7564 (666.7X), S7356 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	2585.2	2403.0	450.0	418.3	ng	-7	15	
Bromofluorobenzene (FID)	A	2084.2	2017.6	450.0	435.6	ng	-3	15	

MJM 11/07/07 : MTBE N/A for samples in sequence.

MJM 11/07/07 : All PID surrogates passed control limits.

Analyst: MJM Date: 11/07/07 Reviewer: LH Date: 11/08/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327446934015 File : 310_015 Time : 06-NOV-2007 18:38
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1543.9	15000	13700	ng	-9	15	
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	3115.6	450.0	542.3	ng	**21**	15	c+
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	1991.5	450.0	430.0	ng	-4	15	

MJM 11/07/07 : PID surrogates are not applicable.

MJM 11/07/07 [Trifluorotoluene (PID) C]: Passes control limits.

Analyst: MJM Date: 11/07/07 Reviewer: LH Date: 11/08/07

+=high bias c=CCV

327446934015

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327389838

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 09/27/07 17:18
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
010	270_010	IB	CALIB			09/27/07 17:18	1.0	1
011	270_011	ICAL	BTXE_1			09/27/07 17:55	1.0	2 1
012	270_012	ICAL	MBTXE_2			09/27/07 18:32	1.0	3 1
013	270_013	ICAL	MBTXE_3			09/27/07 19:09	1.0	3 1
014	270_014	ICAL	MBTXE_4			09/27/07 19:46	1.0	3 1
015	270_015	ICAL	MBTXE_5			09/27/07 20:23	1.0	4 1
016	270_016	ICAL	MBTXE_6			09/27/07 21:00	1.0	4 1
017	270_017	ICAL	MBTXE_7			09/27/07 21:38	1.0	4 1
018	270_018	ICAL	MTBE_7			09/27/07 22:15	1.0	5 1
019	270_019	X	IB			09/27/07 22:52	1.0	1
020	270_020	ICV	MBTXE			09/27/07 23:29	1.0	6 1
021	270_021	X	MBTXE			09/28/07 00:06	1.0	6 1

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Standards used: 1=S7273 2=S7260 3=S7258 4=S7257 5=S6302 6=S7263

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327425380

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 10/22/07 09:40
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	295_001	X	IB			10/22/07 09:40	1.0	1
002	295_002	X	IB			10/22/07 10:15	1.0	1
003	295_003	X	ICAL			10/22/07 10:50	1.0	2 1
004	295_004	X	ICAL			10/22/07 12:00	1.0	3 1
005	295_005	X	ICAL			10/22/07 12:35	1.0	4 1
006	295_006	X	ICAL			10/22/07 13:45	1.0	5 1
007	295_007	X	ICAL			10/22/07 15:09	1.0	5 1
008	295_008	X	IB			10/22/07 16:45	1.0	1
009	295_009	X	ICAL			10/22/07 17:21	1.0	6 1
010	295_010	X	IB			10/22/07 18:37	1.0	1
011	295_011	IB	CALIB			10/22/07 19:13	1.0	1
012	295_012	ICAL	TVH 1			10/22/07 19:49	1.0	2 1
013	295_013	ICAL	TVH 2			10/22/07 20:24	1.0	3 1
014	295_014	ICAL	TVH 3			10/22/07 21:00	1.0	4 1
015	295_015	ICAL	TVH 4			10/22/07 21:36	1.0	5 1
016	295_016	ICAL	TVH 5			10/22/07 22:11	1.0	5 1
017	295_017	X	IB			10/22/07 22:47	1.0	1
018	295_018	ICV	TVH			10/22/07 23:23	1.0	6 1
019	295_019	X	ICV			10/22/07 23:59	1.0	6 1
020	295_020	X	IB			10/23/07 00:35	1.0	1
021	295_021	CMARKER				10/23/07 01:10	1.0	7 1

Analyst: MJM Date: 10/24/07 Reviewer: LH Date: 10/24/07

Standards used: 1=S7273 2=S7476 3=S6986 4=S6985 5=S6984 6=S7423 7=S6725

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327446934

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 11/06/07 08:54
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	310_001	X	CMARK			11/06/07 08:54	1.0	1 2
002	310_002	X	CCV			11/06/07 09:30	1.0	3 2
003	310_003	CCV/LCS	QC413921	Soil	131365	11/06/07 10:05	1.0	4 2
004	310_004	CCV/LCS	QC413920	Soil	131365	11/06/07 10:54	1.0	3 2
005	310_005	X	IB			11/06/07 11:48	1.0	2
006	310_006	BLANK	QC413919	Soil	131365	11/06/07 12:37	1.0	2
007	310_007	SAMPLE	198986-031	Soil	131365	11/06/07 13:51	1.0	2
008	310_008	SAMPLE	198986-032	Soil	131365	11/06/07 14:27	1.0	2
009	310_009	SAMPLE	198880-001	Soil	131365	11/06/07 15:03	1.0	2
010	310_010	SAMPLE	198880-002	Soil	131365	11/06/07 15:39	1.0	2
011	310_011	MSS	198903-001	Soil	131365	11/06/07 16:15	1.0	2
012	310_012	MS	QC413922	Soil	131365	11/06/07 16:50	1.0	4 2
013	310_013	MSD	QC413923	Soil	131365	11/06/07 17:26	1.0	4 2
014	310_014	CCV	BTXE			11/06/07 18:02	1.0	3 2
015	310_015	CCV	TVH			11/06/07 18:38	1.0	4 2
016	310_016	X	CCV			11/06/07 19:14	1.0	3 2
017	310_017	X	CCV			11/06/07 19:49	1.0	4 2
018	310_018	X	CMARK			11/06/07 20:25	1.0	1 2
019	310_019	SAMPLE	198903-002	Soil	131365	11/06/07 21:01	1.0	2
020	310_020	SAMPLE	198903-003	Soil	131365	11/06/07 21:37	1.0	2
021	310_021	SAMPLE	198903-006	Soil	131365	11/06/07 22:13	1.0	2
022	310_022	SAMPLE	198986-033	Soil	131365	11/06/07 22:48	1.0	2
023	310_023	SAMPLE	198986-034	Soil	131365	11/06/07 23:24	1.0	2
024	310_024	SAMPLE	198986-035	Soil	131365	11/07/07 00:00	1.0	2
025	310_025	SAMPLE	198986-036	Soil	131365	11/07/07 00:36	1.0	2
026	310_026	SAMPLE	198986-037	Soil	131365	11/07/07 01:12	1.0	2
027	310_027	SAMPLE	198986-076	Soil	131365	11/07/07 01:47	1.0	2
028	310_028	CCV	TVH			11/07/07 02:23	1.0	4 2
029	310_029	X	CCV			11/07/07 02:59	1.0	4 2
030	310_030	X	CMARK			11/07/07 03:35	1.0	1 2
031	310_031	X	IB			11/07/07 04:11	1.0	2
032	310_032	IB	CALIB			11/07/07 04:46	1.0	2
033	310_033	ICAL	BTXE_1			11/07/07 05:22	1.0	5 2
034	310_034	ICAL	MBTXE_2			11/07/07 05:58	1.0	6 2
035	310_035	ICAL	MBTXE_3			11/07/07 06:34	1.0	6 2
036	310_036	ICAL	MBTXE_4			11/07/07 07:10	1.0	6 2
037	310_037	ICAL	MBTXE_5			11/07/07 07:45	1.0	7 2
038	310_038	ICAL	MBTXE_6			11/07/07 08:21	1.0	7 2
039	310_039	ICAL	MBTXE_7			11/07/07 08:57	1.0	7 2
040	310_040	ICAL	MTBE_7			11/07/07 09:33	1.0	8 2
041	310_041	X	IB			11/07/07 10:08	1.0	2
042	310_042	X	ICAL			11/07/07 10:44	1.0	5 2
043	310_043	ICV	MBTXE			11/07/07 12:10	1.0	9 2

Analyst: MJM Date: 11/07/07 Reviewer: LH Date: 11/08/07

Standards used: 1=S7569 2=S7356 3=S7564 4=S7423 5=S7260 6=S7258 7=S7257 8=S6302 9=S7263

REPORTING SUMMARY FOR 198880 GCVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
198880-001	GC04	11/02/07 01:53	1.0				
198880-001	GC05	11/02/07 15:17	25.0				
198880-001	GC07	11/06/07 15:03	1.0	+	+	+	
198880-002	GC04	11/02/07 02:30	1.0				
198880-002	GC07	11/06/07 15:39	1.0	+	+	+	
QC413346	GC04	11/01/07 14:15	1.0				
QC413347	GC04	11/01/07 10:13	1.0				
QC413348	GC04	11/01/07 10:51	1.0				
QC413349	GC04	11/01/07 20:52	1.0				
QC413350	GC04	11/01/07 21:29	1.0				
QC413508	GC05	11/02/07 14:15	1.0				
QC413509	GC05	11/02/07 09:42	1.0				
QC413919	GC07	11/06/07 12:37	1.0	+	+	+	
QC413920	GC07	11/06/07 10:54	1.0				
QC413921	GC07	11/06/07 10:05	1.0	+	+	+	
QC413922	GC07	11/06/07 16:50	1.0	+	+	+	
QC413923	GC07	11/06/07 17:26	1.0	+	+	+	

Project TVH/BTXE SOIL PREP BK2583

Continued from Page

SAMPLE ID / CORE ID / JAR	WEIGHT (g)	COMP (%)	NaHSO4 (%)	COMMENTS
198837-001 A	0.99	NO	NO	MDM 10/31/07
MS:	1.03			
MSD:	1.02			
198843-001 A	1.02			
198829-003 B	4.32	NO	NO	PBM 11/01/07
198864-001 A	1.04	NO	NO	MDM 11/1/07
198880-001	5.92			
-002	0.97			
198881-003	0.99			
-004	0.98			
-005	1.04			
-006	1.02			
-007	1.01			
-008	1.06			
-010	1.04			
-011	1.03			
-012	1.02			
-015	1.04			
-016	1.03			
-017	0.99			
MS:	1.05			
MSD:	1.01			
198899-002 A	1.00			
198900-005 COMP	1.04	Yes	NO	Comp 1A-4A @ 5g each
198837-001 A	1.04	NO	NO	MDM 11/2/07
198880-002	1.04			
198900-001	0.98			
-002	1.04			
-003	1.00			
-004	1.05			
198903-001 D	6.17			
MS: E	5.27			
MSD: F	6.16			
-002 C	6.67			
-003 B	6.60			
-006 B	5.43			

Continued on Page

Signed — Date: 11/2/07

Read and Understood By

Signed — Date

Project TVH/BTXE SOIL PREP LOG BK2583

Continued from Page

SAMPLE ID / CORE ID / JAR	WEIGHT (g)	COMP (Y)	Na2SO4 (Y)	COMMENTS
198908-002 A	1.03	NO	NO	MSM 11/2/07
-006	1.03			
-009	0.95			
-010	0.99			
-011	0.97			
198929-002 A	0.97	NO	NO	PdM 11/2/07
-003	0.93			
-005	0.91			
-006	1.01			
198929-005 A MS	1.00	NO	NO	MSM 11/2/07
MSD	1.01			
198562-002 A	0.94	NO	NO	PdM 11/5/07
198755-001	1.02			
MS	0.91			
MSD	1.03			
-002	1.06			
-004	1.04			
198910-001 A	0.94			
198880-001 D	6.41			
198959-016 A	1.01	NO	NO	MSM 11/5/07
MS	1.02			
MSD	1.05			
-017	1.01			
-018	1.05			
-019	1.01			
-020	1.01			
-021	0.98			
-022	1.00			
-023	0.98			
-024	1.00			
-025	1.03			
-026	1.04			
-027	0.98			
-028	1.03			
-029	1.03			
-030	0.99			

Continued on Page

MSM 11/5/07

Signed Date

Read and Understood By

Signed Date

18 Project TVH/BTXE SOIL PREP BK2583

Continued from Page ←

SAMPLE ID / CORE ID / BAR	WEIGHT (g)		COMP (%)	$NaHSO_4$ (%)	COMMENTS
198959-001 A	1.00		NO	NO	MSM 11/5/07
MS:	1.04				
MSD:	0.98				
-002	1.04				
-003	0.98				
-004	1.00				
-005	1.04				
-006	0.98				
-007	0.99				
-008	1.01				
-009 MSM 11/5/07	~~0.97~~	1.01			
-010	1.02	0.97			
-011	0.97	1.02			
-012	~~1.02~~	0.97			
-013	1.02				
-014 MSM 11/5/07	~~0.95~~	1.02			
-015	0.95				
198951 -016 MSM 11/6/07 -001 A	1.05				Alias of 198548-012A
198957-010 A	0.99				
-011	1.02				
-012	0.99				
MS: 198903-001 G	4.28				
MSD: ↓ ↓ H	6.04				
198984-001 A	0.99		NO	NO	MSM 11/6/07
198959-016	1.01				
MSD: ↓ ↓	1.00				
198959-018 A	1.00				
-019	1.03				
-020	0.99				
-023	1.04				
-026	1.03				
-027	1.01				
-031	0.99				
-032	1.03				
-033	1.03				
-034	1.01				

Continued on Page

MGL — Signed

11/5/07 — Date

Read and Understood By

Signed — Date

Project TVH/BTXE SOIL PREP LOG BK2583

Continued from Page —

SAMPLE ID/CORE ID/JAR	WEIGHT (g)	COMP (2)	$NaHSO_4$ (2)	COMMENTS
198959 -035 A	1.03	NO	NO	MS/MSD 11/6/07
MS : ↓ ↓ ↓	1.00			
MSD : ↓ ↓ ↓	1.02			
198986 -031 A	1.01			
-032	1.01			
-033	1.01			
-034	0.99			
-035	1.01			
-036	1.03			
-037	1.03			
-076	1.03			

Continued on Page

Signed — Date 11/6/07

Read and Understood By

Signed — Date

TPH-EXTRACTABLE HYDROCARBONS IN WATER

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX357RB358	Batch#:	131332
Matrix:	Water	Sampled:	10/31/07
Units:	ug/L	Received:	11/01/07
Diln Fac:	1.000	Prepared:	11/05/07

Type: SAMPLE
Lab ID: 198880-004
Analyzed: 11/07/07
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	50	11
Fuel Oil C24-C36	ND	300	56

Surrogate	%REC	Limits
Hexacosane	95	65-135

Type: BLANK
Lab ID: QC413786
Analyzed: 11/06/07
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	50	11
Fuel Oil C24-C36	ND	300	56

Surrogate	%REC	Limits
Hexacosane	92	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	131332
Units:	ug/L	Prepared:	11/05/07
Diln Fac:	1.000	Analyzed:	11/06/07

Type: BS
Lab ID: QC413787

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,291	92	65-135

Surrogate	%REC	Limits
Hexacosane	96	65-135

Type: BSD
Lab ID: QC413788

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,247	90	65-135	2	35

Surrogate	%REC	Limits
Hexacosane	93	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 117061448001

Name : Diesel
Cal Date : 11-FEB-2007

ICV 117061448016 (042a016 12-FEB-2007) stds: S5419 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	58249	55207	500.0	473.9	mg/L	-5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Water
EPA 8015B

Inst : GC11A
Seqnum : 117447306003
Standards: S7541

Run Name : DSL_500
File : 310a003

IDF : 1.0
Time : 06-NOV-2007 16:02

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	58236	500.0	499.9	mg/L	0	15	
Hexacosane	117245263001	19-JUN-2007	69898	65734	50.00	47.02	mg/L	-6	15	

Analyst: ZA Date: 11/06/07 Reviewer: JDG Date: 11/07/07

117447306003

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Water
EPA 8015B

Inst : GC11A
Seqnum : 117447306004
Standards: S7310

Run Name : MO_500
File : 310a004

IDF : 1.0
Time : 06-NOV-2007 16:30

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	39066	500.0	471.2	mg/L	-6	15	
Hexacosane	117245263001	19-JUN-2007	69898	66639	50.00	47.67	mg/L	-5	15	

Analyst: ZA Date: 11/06/07 Reviewer: JDG Date: 11/07/07

117447306004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Water
EPA 8015B

Inst : GC11A
Seqnum : 117447306018
Standards: S7540

Run Name : DSL_250
File : 310a018

IDF : 1.0
Time : 06-NOV-2007 23:04

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	63772	250.0	273.7	mg/L	9	15	
Hexacosane	117245263001	19-JUN-2007	69898	67485	50.00	48.27	mg/L	-3	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117447306018

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Water
EPA 8015B

Inst : GC11A
Seqnum : 117447306019
Standards: S7310

Run Name : MO_500
File : 310a019

IDF : 1.0
Time : 06-NOV-2007 23:32

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	38413	500.0	463.3	mg/L	-7	15	
Hexacosane	117245263001	19-JUN-2007	69898	65505	50.00	46.86	mg/L	-6	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117447306019

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Water
EPA 8015B

Inst : GC11A
Seqnum : 117447306038
Standards: S6809

Run Name : DSL_1000
File : 310a038

IDF : 1.0
Time : 07-NOV-2007 08:25

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	58625	1000	1006	mg/L	1	15	
Hexacosane	117245263001	19-JUN-2007	69898	69086	50.00	49.42	mg/L	-1	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117447306038

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Water
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117447306039 File : 310a039 Time : 07-NOV-2007 08:53
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	38978	500.0	470.1	mg/L	-6	15	
Hexacosane	117245263001	19-JUN-2007	69898	67404	50.00	48.22	mg/L	-4	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117037956

Instrument : GC11A
Method : EPA 8015B

Begun : 01/26/07 08:36
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	026a001	X	IB			01/26/07 08:36	1.0	
002	026a002	XCCV	DSL_500			01/26/07 09:04	1.0	1
003	026a003	XCCV	MO_500			01/26/07 09:32	1.0	2
006	026a006	X	HEX_5			01/26/07 16:57	1.0	
007	026a007	X	IB			01/26/07 17:25	1.0	
008	026a008	CMARKER	C8-C50			01/26/07 17:55	1.0	3
009	026a009	X	CALIB			01/26/07 18:22	1.0	
010	026a010	XICAL	DSL_10			01/26/07 18:50	1.0	4
011	026a011	XICAL	DSL_100			01/26/07 19:18	1.0	5
012	026a012	XICAL	DSL_500			01/26/07 19:46	1.0	6
013	026a013	XICAL	DSL_1000			01/26/07 20:14	1.0	7
014	026a014	XICAL	DSL_5000			01/26/07 20:42	1.0	8
015	026a015	XICAL	DSL_7500			01/26/07 21:10	1.0	9
016	026a016	X	IB			01/26/07 21:38	1.0	
017	026a017	XICV	DSL_500			01/26/07 22:06	10.0	10
018	026a018	XICV	DSL_500			01/26/07 22:34	10.0	10
019	026a019	IB	CALIB			01/26/07 23:02	1.0	
020	026a020	ICAL	MO_50			01/26/07 23:30	1.0	11
021	026a021	ICAL	MO_250			01/26/07 23:58	1.0	12
022	026a022	ICAL	MO_500			01/27/07 00:26	1.0	13
023	026a023	ICAL	MO_1000			01/27/07 00:54	1.0	14
024	026a024	ICAL	MO_5000			01/27/07 01:22	1.0	15
025	026a025	IB	CALIB			01/27/07 01:50	1.0	
026	026a026	ICAL	HEX_5			01/27/07 02:18	1.0	16
027	026a027	ICAL	HEX_10			01/27/07 02:46	1.0	17
028	026a028	ICAL	HEX_25			01/27/07 03:14	1.0	18
029	026a029	ICAL	HEX_50			01/27/07 03:42	1.0	19
030	026a030	ICAL	HEX_100			01/27/07 04:10	1.0	20
031	026a031	ICAL	HEX_200			01/27/07 04:38	1.0	21
032	026a032	IB	CALIB			01/27/07 05:06	1.0	
033	026a033	ICAL	BUNK_50			01/27/07 05:35	1.0	22
034	026a034	ICAL	BUNK_500			01/27/07 06:03	1.0	23
035	026a035	ICAL	BUNK_1250			01/27/07 06:31	1.0	24
036	026a036	ICAL	BUNK_2500			01/27/07 06:59	1.0	25
037	026a037	ICAL	BUNK_5000			01/27/07 07:27	1.0	26
038	026a038	IB	CALIB			01/27/07 07:55	1.0	
039	026a039	ICAL	JP5_10			01/27/07 08:23	1.0	27
040	026a040	ICAL	JP5_100			01/27/07 08:52	1.0	28
041	026a041	ICAL	JP5_500			01/27/07 09:20	1.0	29
042	026a042	ICAL	JP5_1500			01/27/07 09:48	1.0	30
043	026a043	ICAL	JP5_3000			01/27/07 10:16	1.0	31
044	026a044	ICAL	JP5_5000			01/27/07 10:44	1.0	32
045	026a045	X	IB			01/27/07 11:12	1.0	

CP 01/29/07 : Need to re-run diesel ical. standards have concentrated and need to be re-made then re-run.

Analyst: CP Date: 01/29/07 Reviewer: MCH Date: 01/29/07

Standards used: 1=S5157 2=S5274 3=S4049 4=S4854 5=S4540 6=S4542 7=S4543 8=S4538 9=S4694 10=S4615 11=S4754 12=S4755 13=S4756 14=S4758 15=S4753 16=S4639 17=S4640 18=S4641 19=S5402 20=S4644 21=S4645 22=S4708 23=S4709 24=S4710 25=S4711 26=S4712 27=S4284 28=S4285 29=S4286 30=S4287 31=S4288 32=S4283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117061448

Instrument : GC11A
Method : EPA 8015B

Begun : 02/11/07 16:08
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	042a001	X	IB			02/11/07 16:08	1.0	
002	042a002	X	DSL_500			02/11/07 16:35	1.0	1
003	042a003	X	MO_500			02/11/07 17:03	1.0	2
004	042a004	X	MO_500			02/11/07 17:47	1.0	2
005	042a005	CCV	MO_500			02/11/07 18:33	1.0	2
006	042a006	CCV	DSL_500			02/11/07 19:02	1.0	1
007	042a007	CCV	DSL_500			02/11/07 19:30	1.0	1
008	042a008	X	IB			02/11/07 20:45	1.0	
009	042a009	ICAL	DSL_10			02/11/07 21:13	1.0	3
010	042a010	ICAL	DSL_100			02/11/07 21:41	1.0	4
011	042a011	ICAL	DSL_500			02/11/07 22:09	1.0	5
012	042a012	ICAL	DSL_1000			02/11/07 22:37	1.0	6
013	042a013	ICAL	DSL_5000			02/11/07 23:05	1.0	7
014	042a014	ICAL	DSL_7500			02/11/07 23:33	1.0	8
015	042a015	IB	CALIB			02/12/07 00:01	1.0	
016	042a016	ICV	DSL_500			02/12/07 00:28	1.0	9
017	042a017	XICV	DSL_500			02/12/07 00:57	1.0	9
018	042a018	X	IB			02/12/07 01:24	1.0	
019	042a019	CMARKER	C8-C50			02/12/07 09:23	1.0	10

CP 02/12/07 : carbon markers run after ical.

Analyst: CP Date: 02/12/07 Reviewer: MCH Date: 02/12/07

Standards used: 1=S5517 2=S4886 3=S5413 4=S5414 5=S5416 6=S5417 7=S5411 8=S5412 9=S5419 10=S4049

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117245263

Instrument : GC11A
Method : EPA 8015B

Begun : 06/19/07 07:43
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	170a001	X	PRIMER			06/19/07 07:43	1.0	
002	170a002	X	IB			06/19/07 08:11	1.0	
003	170a003	CMARKER	C8-C50			06/19/07 08:40	1.0	1
004	170a004	X	DSL_500			06/19/07 09:08	1.0	2
005	170a005	X	MO_500			06/19/07 09:36	1.0	3
006	170a006	X	MO_500			06/19/07 11:15	1.0	3
008	170a008	X	IB			06/19/07 12:29	1.0	
009	170a009	X	CMARKER			06/19/07 12:57	1.0	1
010	170a010	X	DSL_500			06/19/07 13:24	1.0	2
011	170a011	X	MO_500			06/19/07 13:52	1.0	3
012	170a012	IB	CALIB			06/19/07 15:16	1.0	
013	170a013	ICAL	HEX_5			06/19/07 15:44	1.0	4
014	170a014	ICAL	HEX_10			06/19/07 16:12	1.0	5
015	170a015	ICAL	HEX_25			06/19/07 16:39	1.0	6
016	170a016	ICAL	HEX_50			06/19/07 17:07	1.0	7
017	170a017	ICAL	HEX_100			06/19/07 17:35	1.0	8
018	170a018	ICAL	HEX_200			06/19/07 18:03	1.0	9
019	170a019	X	IB			06/19/07 18:30	1.0	

Analyst: DLM Date: 06/19/07 Reviewer: CW Date: 06/20/07

Standards used: 1=S4049 2=S6346 3=S6046 4=S5751 5=S5752 6=S5753 7=S5754 8=S5755 9=S5756

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117447306

Instrument : GC11A
Method : EPA 8015B

Begun : 11/06/07 15:06
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	310a001	X	IB				11/06/07 15:06	1.0		
002	310a002	X	CMARKER				11/06/07 15:34	1.0	1	
003	310a003	CCV	DSL_500				11/06/07 16:02	1.0	2	
004	310a004	CCV	MO_500				11/06/07 16:30	1.0	3	
005	310a005	CCV	JP5_250				11/06/07 16:59	1.0	4	
006	310a006	CCV	BUNK_1250				11/06/07 17:27	1.0	5	
007	310a007	BS	QC413787	S	Water	131332	11/06/07 17:55	1.0		
008	310a008	BSD	QC413788	S	Water	131332	11/06/07 18:23	1.0		
009	310a009	BLANK	QC413786	S	Water	131332	11/06/07 18:51	1.0		
010	310a010	SAMPLE	198925-003	S	Water	131332	11/06/07 19:19	1.0		
011	310a011	SAMPLE	198925-001		Water	131332	11/06/07 19:48	1.0		
012	310a012	SAMPLE	198925-003		Water	131332	11/06/07 20:16	1.0		
013	310a013	SAMPLE	198948-001		Water	131332	11/06/07 20:44	1.0		
014	310a014	SAMPLE	198948-002		Water	131332	11/06/07 21:12	1.0		
015	310a015	SAMPLE	198948-003		Water	131332	11/06/07 21:40	1.0		14:BUNKC:12-40=22000
016	310a016	X	IB				11/06/07 22:08	1.0		
017	310a017	SAMPLE	198948-004		Water	131332	11/06/07 22:36	1.0		
018	310a018	CCV	DSL_250				11/06/07 23:04	1.0	6	
019	310a019	CCV	MO_500				11/06/07 23:32	1.0	3	
020	310a020	CCV	JP5_250				11/07/07 00:00	1.0	4	
021	310a021	CCV	BUNK_1250				11/07/07 00:28	1.0	5	
022	310a022	X	CCV				11/07/07 00:56	1.0	6	
023	310a023	X	CCV				11/07/07 01:24	1.0	3	
024	310a024	X	CCV				11/07/07 01:52	1.0	4	
025	310a025	X	CCV				11/07/07 02:20	1.0	5	
026	310a026	BS	QC413787		Water	131332	11/07/07 02:47	1.0		
027	310a027	BSD	QC413788		Water	131332	11/07/07 03:15	1.0		
028	310a028	BLANK	QC413786		Water	131332	11/07/07 03:44	1.0		
029	310a029	SAMPLE	198880-004	S	Water	131332	11/07/07 04:12	1.0		
030	310a030	SAMPLE	198903-004	S	Water	131332	11/07/07 04:40	1.0		
031	310a031	SAMPLE	198956-002	S	Water	131332	11/07/07 05:08	1.0		
032	310a032	SAMPLE	198957-010		Soil	131317	11/07/07 05:36	1.0		10:BUNKC:12-40=44000
033	310a033	SAMPLE	198957-012		Soil	131317	11/07/07 06:04	1.0		
034	310a034	SAMPLE	198957-011		Soil	131317	11/07/07 06:32	3.0		
035	310a035	X	IB				11/07/07 07:00	1.0		
036	310a036	SAMPLE	198814-002		Water	131332	11/07/07 07:28	1.0		
037	310a037	X	CMARKER				11/07/07 07:56	1.0	1	
038	310a038	CCV	DSL_1000				11/07/07 08:25	1.0	7	
039	310a039	CCV	MO_500				11/07/07 08:53	1.0	3	
040	310a040	CCV	JP5_250				11/07/07 09:21	1.0	4	
041	310a041	CCV	BUNK_1250				11/07/07 09:49	1.0	5	
042	310a042	SAMPLE	198948-003		Water	131332	11/07/07 10:26	20.0		
043	310a043	SAMPLE	198925-003		Water	131332	11/07/07 10:55	1.0		
044	310a044	SAMPLE	198925-001		Water	131332	11/07/07 11:23	1.0		
045	310a045	SAMPLE	198986-033		Soil	131364	11/07/07 12:12	2.0		
046	310a046	X	IB				11/07/07 13:42	1.0		
047	310a047	MS	QC413608		Soil	131287	11/07/07 14:09	1.0		
048	310a048	MSD	QC413609		Soil	131287	11/07/07 14:38	1.0		
049	310a049	X	IB				11/07/07 17:33	1.0		
050	310a050	SAMPLE	198986-030		Soil	131364	11/07/07 18:01	10.0		.

Standards used: 1=S7307 2=S7541 3=S7310 4=S6929 5=S7350 6=S7540 7=S6809

REPORTING SUMMARY FOR 198880 GCSV Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
198880-004	GC11A	11/07/07 04:12	1.0	+	+	+	
QC413786	GC11A	11/06/07 18:51	1.0	+	+	+	
QC413786	GC11A	11/07/07 03:44	1.0				
QC413787	GC11A	11/06/07 17:55	1.0	+		+	
QC413787	GC11A	11/07/07 02:47	1.0				
QC413788	GC11A	11/06/07 18:23	1.0	+		+	
QC413788	GC11A	11/07/07 03:15	1.0				

SAMPLE PREPARATION SUMMARY

Batch # : 131332
Started By : DJT
Method : 3520C
Spike #1 ID : S7552
Prep Date : 05-NOV-2007
SOP Version : TEH_3520_rv11
Spike #2 ID : S7578
Analysis : TEH
Finished By : DJT
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198814-002		Water	500	2.5	1	0.005	7	.5				TEHM	
198814-003		Water	500	2.5	1	0.005	7	.5				TEHM	
198880-004		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
198903-004		Water	500	2.5	1	0.005	3	.5			3630C	TEHM	
198925-001		Water	500	2.5	1	0.005	7	.5				(rebatched)	
198925-003		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
198948-001		Water	500	2.5	1	0.005	7	.5				TEHM	
198948-002		Water	500	2.5	1	0.005	7	.5				TEHM	
198948-003		Water	500	2.5	1	0.005	7	.5				TEHM	
198948-004		Water	500	2.5	1	0.005	7	.5				TEHM	
198956-002		Water	500	2.5	1	0.005	5	.5			3630C	TEHM	
QC413786	BLANK	Water	500	2.5	1	0.005		.5			3630C		
QC413787	BS	Water	500	2.5	1	0.005		.5	.5		3630C		
QC413788	BSD	Water	500	2.5	1	0.005		.5	.5		3630C		

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

TEH (8015) Water Prep Log — Curtis & Tompkins, Ltd.

Page 72 — BK 2577

LIMS Batch No: 131332
LIMS Analysis: TEH/M
Date Extracted: 11/5/07

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Ge

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
198814-002 V	500	7	2.5		
↓ 003 V	↓	↓	↓		
198880-004 C		↓		X	
198903-004 J		3		↓	
198925-001 E		7			
↓ 003 F		↓		X	
198948-001 A					
002					
003					
↓ 004 ↓		↓			
198956-002 E		5		X	
MB QC413786		NA			
BS 7					
BSD ↓ 8	↓	↓	↓	↓	

DOT 11/6/07

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S7552B	DOT 11/5/07
0.5 mL of TEH_SP was added to all spikes	S7578A	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS073967	
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM47178	
Extraction Start Time:	1645	
Extraction End Time:	1045	DOT 11/6/07
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM47158737	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	

11/5/07
Extraction Chemist **Date**

Contined from Page —
Continued on Page —

11/6/07
Reviewed by **Date**

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: DST
Cleanup Date: 11/6/07

Benchbook # **2611**
Page 6

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
198880-004	131332	1.0	1.0	
198903-004				
198925-003				
198956-002				
MB QC413786				
BS 7				
BSD 8				

JLM 11/6/07

☐ Extracts were cleaned up using C&T assembled ___ g columns
☒ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 4.0 mL CH_2Cl_2
Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
NA	DST 11/6/07
SP9092	
EM477178	
✓	

DST 11/6/07
Extraction Chemist / Date

Continued from page /
Continued on page /

JLM 11/6/07
Reviewed by / Date

TPH-EXTRACTABLES DATA

SOIL

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/31/07
Units:	mg/Kg	Received:	11/01/07
Diln Fac:	1.000		

Field ID:	1065EX357[4.0]	Batch#:	131317
Type:	SAMPLE	Prepared:	11/05/07
Lab ID:	198880-001	Analyzed:	11/06/07
Basis:	dry	Cleanup Method:	EPA 3630C
Moisture:	16%		

Analyte	Result	RL	MDL
Diesel C12-C24	100 Y	1.2	0.24
Fuel Oil C24-C36	64	5.9	1.5

Surrogate	%REC	Limits
Hexacosane	96	65-135

Field ID:	1065EX358[4.0]	Batch#:	131427
Type:	SAMPLE	Prepared:	11/07/07
Lab ID:	198880-002	Analyzed:	11/08/07
Basis:	dry	Cleanup Method:	EPA 3630C
Moisture:	10%		

Analyte	Result	RL	MDL
Diesel C12-C24	0.54 J	1.1	0.17
Fuel Oil C24-C36	4.1 J	5.5	1.5

Surrogate	%REC	Limits
Hexacosane	66	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/31/07
Units:	mg/Kg	Received:	11/01/07
Diln Fac:	1.000		

Type:	BLANK	Prepared:	11/05/07
Lab ID:	QC413727	Analyzed:	11/06/07
Basis:	as received	Cleanup Method:	EPA 3630C
Batch#:	131317		

Analyte	Result	RL	MDL
Diesel C12-C24	0.34 J	1.0	0.21
Fuel Oil C24-C36	ND	5.0	1.3

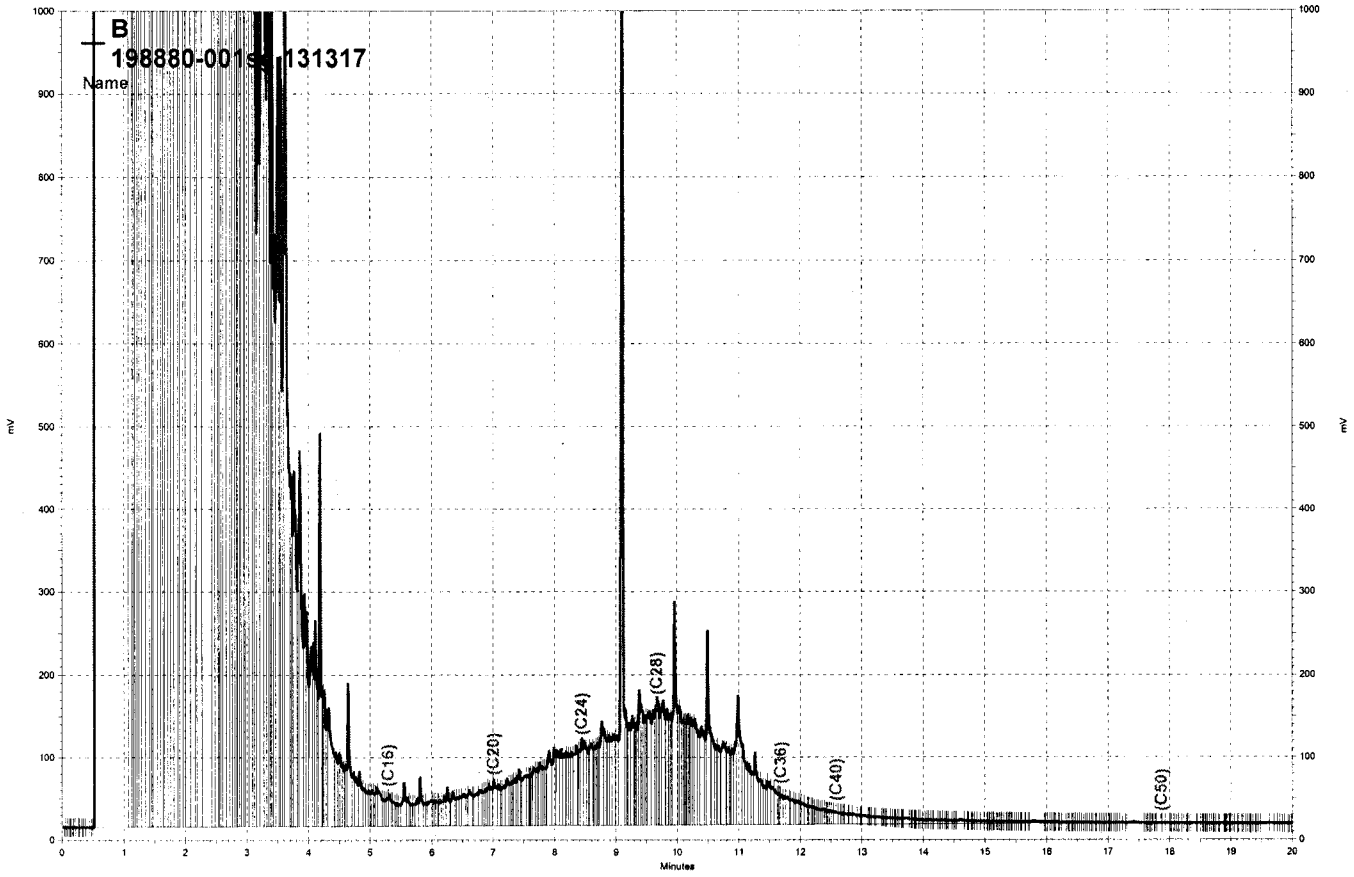
Surrogate	%REC	Limits
Hexacosane	79	65-135

Type:	BLANK	Prepared:	11/07/07
Lab ID:	QC414179	Analyzed:	11/08/07
Basis:	as received	Cleanup Method:	EPA 3630C
Batch#:	131427		

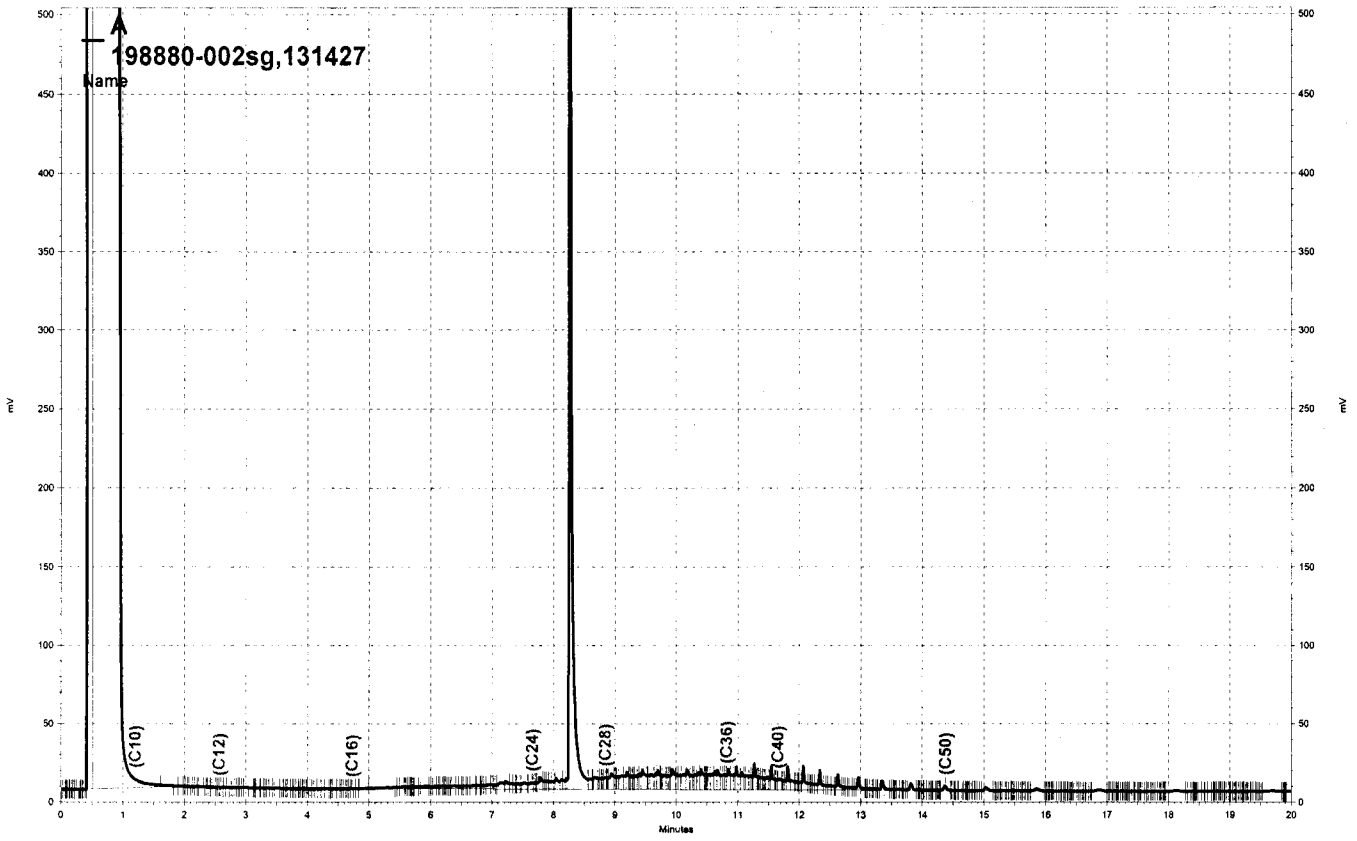
Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.16
Fuel Oil C24-C36	ND	5.0	1.1

Surrogate	%REC	Limits
Hexacosane	79	65-135

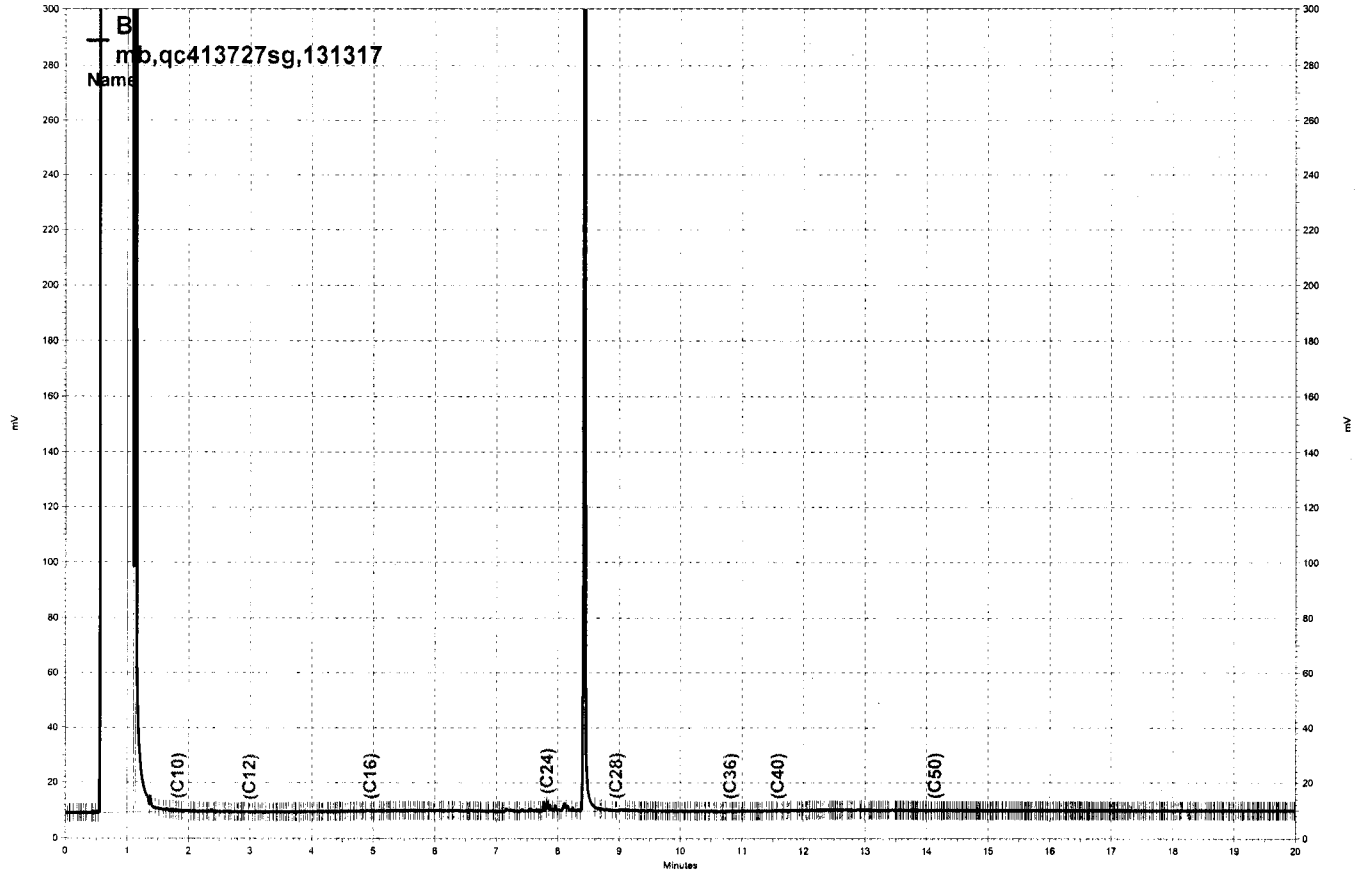
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



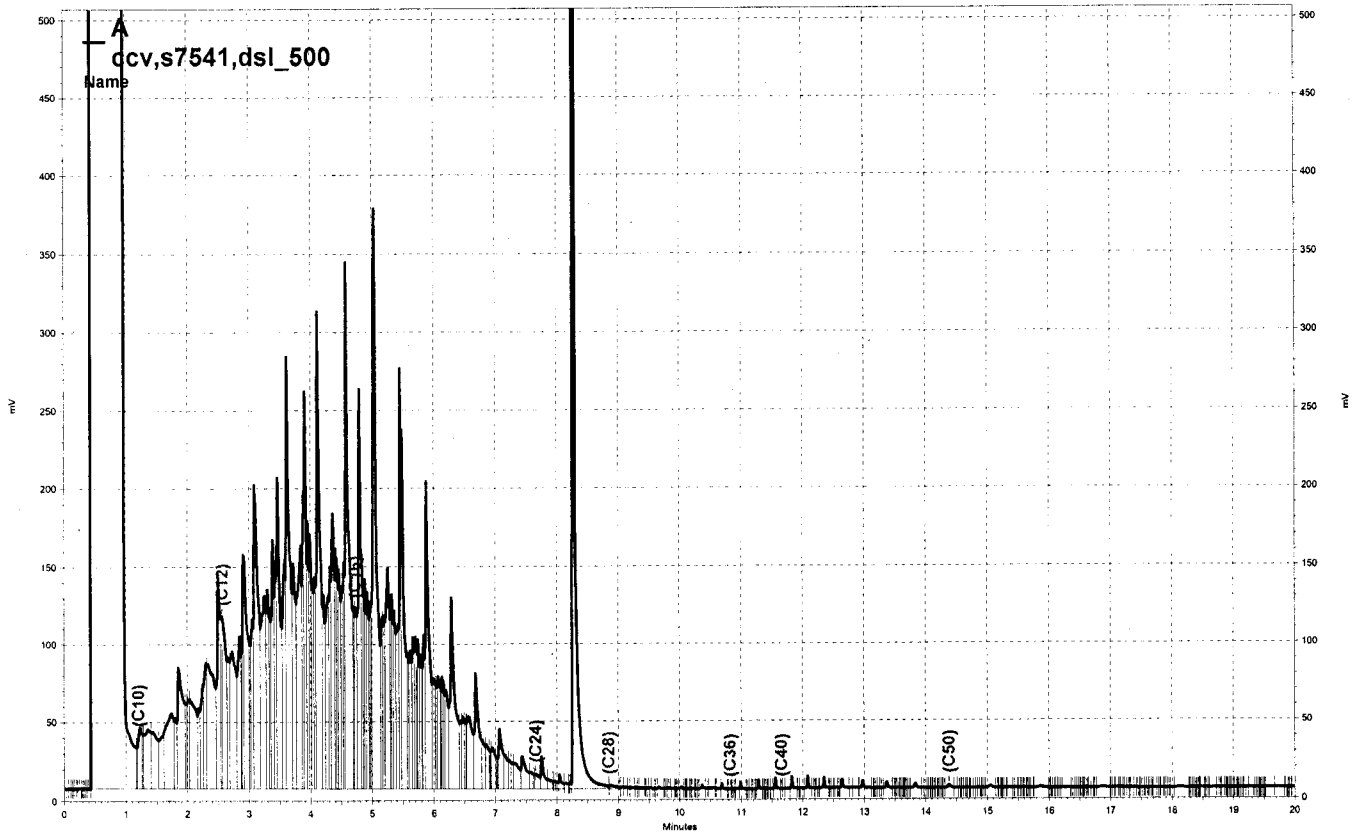
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\308b070, B



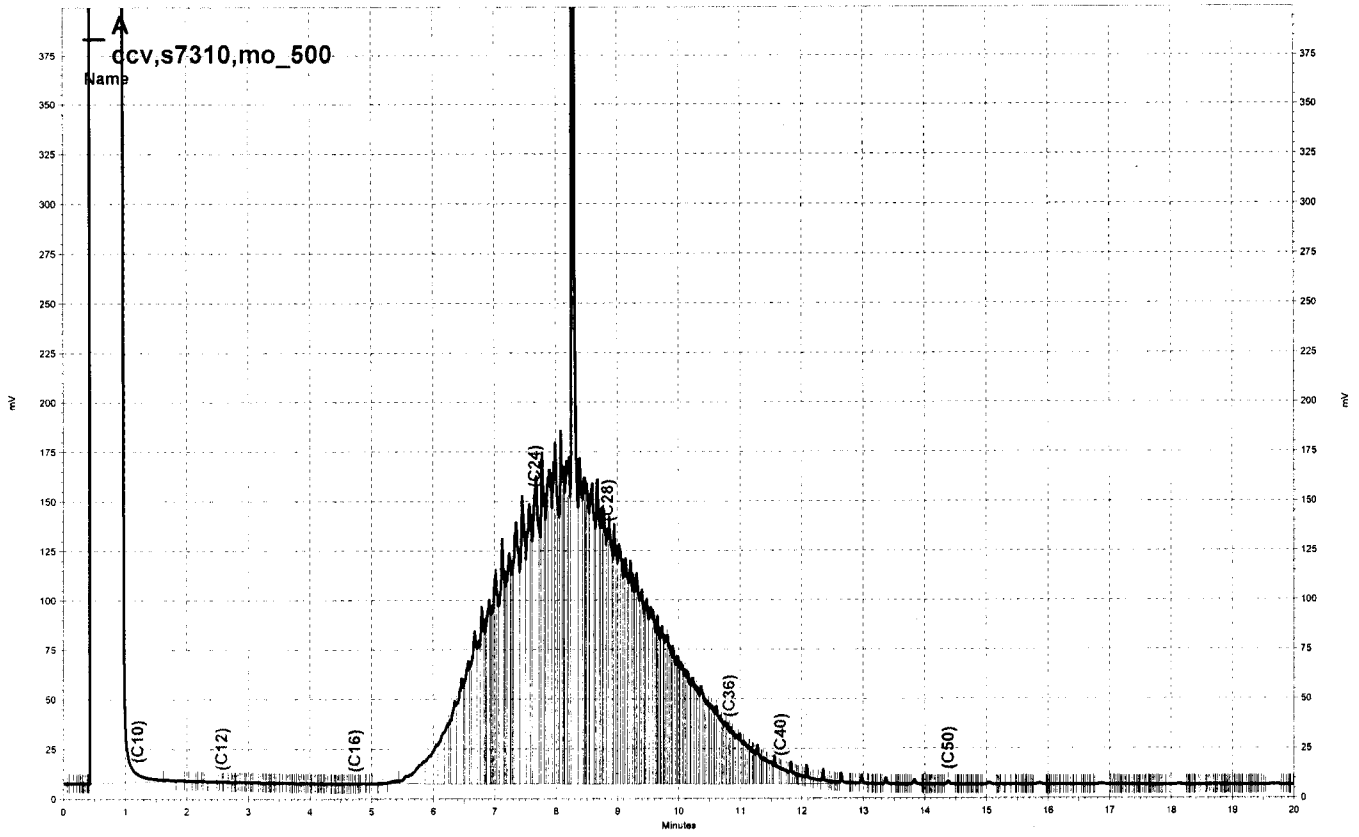
\\Lims\gdrive\ezchrom\Projects\GC11A\Data\312a006, A



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\308b085, B



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\312a004, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\312a005, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413728	Batch#:	131317
Matrix:	Soil	Prepared:	11/05/07
Units:	mg/Kg	Analyzed:	11/06/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.89	41.98	84	65-135

Surrogate	%REC	Limits
Hexacosane	85	65-135

60.0

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC414180	Batch#:	131427
Matrix:	Soil	Prepared:	11/07/07
Units:	mg/Kg	Analyzed:	11/08/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.51	39.22	79	65-135

Surrogate	%REC	Limits
Hexacosane	82	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	131317
MSS Lab ID:	198959-001	Sampled:	11/01/07
Matrix:	Soil	Received:	11/05/07
Units:	mg/Kg	Prepared:	11/05/07
Basis:	as received	Analyzed:	11/07/07
Diln Fac:	1.000		

Type: MS Lab ID: QC413729

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	0.2604	49.69	38.69	77	65-135

Surrogate	%REC	Limits
Hexacosane	78	65-135

Type: MSD Lab ID: QC413730

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	49.76	39.96	80	65-135	3	35

Surrogate	%REC	Limits
Hexacosane	82	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	131427
MSS Lab ID:	199008-018	Sampled:	11/05/07
Matrix:	Soil	Received:	11/06/07
Units:	mg/Kg	Prepared:	11/07/07
Basis:	as received	Analyzed:	11/08/07
Diln Fac:	1.000		

Type: MS Lab ID: QC414181

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	0.3725	49.59	39.52	79	65-135

Surrogate	%REC	Limits
Hexacosane	83	65-135

Type: MSD Lab ID: QC414182

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	49.51	37.81	76	65-135	4	35

Surrogate	%REC	Limits
Hexacosane	79	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11 FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 GCSV Soil
EPA 8015B

Inst : GC11A
Calnum : 117061448001

Name : Diesel
Cal Date : 11-FEB-2007

ICV 117061448016 (042a016 12-FEB-2007) stds: S5419 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	58249	55207	500.0	473.9	mg/L	-5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

S5755

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183006
Units : mg/L

Name : dsl
Date : 10-OCT-2007 12:00
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_003	227408183003	DSL_10	10-OCT-2007 12:00	S6612
L2	283_004	227408183004	DSL_100	10-OCT-2007 12:29	S6613
L3	283_005	227408183005	DSL_500	10-OCT-2007 12:58	S6614
L4	283_006	227408183006	DSL_1000	10-OCT-2007 13:27	S6615
L5	283_007	227408183007	DSL_5000	10-OCT-2007 13:56	S6611
L6	283_008	227408183008	DSL_7500	10-OCT-2007 14:25	S6616

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	57537	63636	64700	63713	59922	65554	AVRG		1.60E-5		62510	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	B	10.00	-8	100.0	2	500.0	4	1000	2	5000	-4	7500	5

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 227408183006

Name : dsl
Cal Date : 10-OCT-2007

ICV 227408183010 (283_010 10-OCT-2007) stds: S6617 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	62510	57512	500.0	460.0	mg/L	-8	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183005
Units : mg/L

Name : Motor Oil
Date : 10-OCT-2007 16:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_012	227408183012	MO_50	10-OCT-2007 16:20	S6848
L2	283_013	227408183013	MO_250	10-OCT-2007 16:48	S6849
L3	283_014	227408183014	MO_500	10-OCT-2007 17:16	S6850
L4	283_015	227408183015	MO_1000	10-OCT-2007 17:44	S6851
L5	283_040	227408183040	MO_5000	11-OCT-2007 10:35	S6846

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	39282	41294	41437	39011	31093	AVRG		2.60E-5		38423	11	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	B	50.00	2	250.0	7	500.0	8	1000	2	5000	-19

Analyst: ATL Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183002
Units : mg/L

Name : HEX
Date : 10-OCT-2007 19:38
X Axis : R

Level	File	Segnum	Sample ID	Analyzed	Stds
L1	283_019	227408183019	HEX_5	10-OCT-2007 19:38	S7036
L2	283_020	227408183020	HEX_10	10-OCT-2007 20:06	S7037
L3	283_021	227408183021	HEX_25	10-OCT-2007 20:34	S7038
L4	283_022	227408183022	HEX_50	10-OCT-2007 21:03	S7039
L5	283_023	227408183023	HEX_100	10-OCT-2007 21:31	S7040
L6	283_024	227408183024	HEX_200	10-OCT-2007 22:00	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	62663	62290	59838	61265	60611	52506	AVRG		1.67E-5		59862	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	5	10.00	4	25.00	0	50.00	2	100.0	1	200.0	-12

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763001
Units : mg/L

Name : DSL
Date : 18-OCT-2007 02:40
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b017	167416763017	DSL_10	18-OCT-2007 02:40	S6612
L2	289b018	167416763018	DSL_100	18-OCT-2007 03:07	S6613
L3	289b019	167416763019	DSL_500	18-OCT-2007 03:35	S6614
L4	289b020	167416763020	DSL_1000	18-OCT-2007 04:03	S6615
L5	289b021	167416763021	DSL_5000	18-OCT-2007 04:31	S6611
L6	289b022	167416763022	DSL_7500	18-OCT-2007 04:58	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	23294	26355	25904	26080	28152	26566	AVRG		3.84E-5		26059	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-11	100.0	1	500.0	-1	1000	0	5000	8	7500	2

Analyst: ATL Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 GCSV Soil
EPA 8015B

Inst : GC15B
Calnum : 167416763001
Name : DSL
Cal Date : 18-OCT-2007

ICV 167416763024 (289b024 18-OCT-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	26059	27062	500.0	519.3	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763002
Units : mg/L

Name : mo 5pt.
Date : 18-OCT-2007 07:18
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b027	167416763027	MO_50	18-OCT-2007 07:18	S6848
L2	289b028	167416763028	MO_250	18-OCT-2007 07:46	S6849
L3	289b029	167416763029	MO_500	18-OCT-2007 08:14	S6850
L4	289b030	167416763030	MO_1000	18-OCT-2007 08:42	S6851
L5	289b031	167416763031	MO_5000	18-OCT-2007 09:10	S6846

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	17688	20401	19302	18899	14749	AVRG		5.49E-5		18208	12	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	12	500.0	6	1000	4	5000	-19

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763003
Units : mg/L

Name : hex
Date : 18-OCT-2007 11:02
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b035	167416763035	HEX_5	18-OCT-2007 11:02	S7036
L2	289b036	167416763036	HEX_10	18-OCT-2007 11:30	S7037
L3	289b037	167416763037	HEX_25	18-OCT-2007 11:57	S7038
L4	289b038	167416763038	HEX_50	18-OCT-2007 12:25	S7039
L5	289b039	167416763039	HEX_100	18-OCT-2007 12:53	S7040
L6	289b040	167416763040	HEX_200	18-OCT-2007 13:21	S7041

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	29546	29340	28793	29036	28799	28229	AVRG		3.45E-5		28957	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	2	10.00	1	25.00	-1	50.00	0	100.0	-1	200.0	-3

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177330472002
Units : mg/L

Name : MO
Date : 17-AUG-2007 18:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	229a015	177330472015	MO_50	17-AUG-2007 18:23	S6848
L2	229a016	177330472016	MO_250	17-AUG-2007 18:51	S6849
L3	229a017	177330472017	MO_500	17-AUG-2007 19:18	S6850
L4	229a018	177330472018	MO_1000	17-AUG-2007 19:45	S6851
L5	229a019	177330472019	MO_5000	17-AUG-2007 20:13	S6846
L6	229a020	177330472020	MO_7500	17-AUG-2007 20:40	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	50681	53699	55379	55614	54069	53736	AVRG		1.86E-5		53863	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-6	250.0	0	500.0	3	1000	3	5000	0	7500	0

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

177330472002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177377811001
Units : mg/L

Name : hex 5pt.
Date : 19-SEP-2007 19:51
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	262a024	177377811024	HEX_5	19-SEP-2007 19:51	S7036
L2	262a025	177377811025	HEX_10	19-SEP-2007 20:18	S7037
L3	262a026	177377811026	HEX_25	19-SEP-2007 20:46	S7038
L4	262a027	177377811027	HEX_50	19-SEP-2007 21:13	S7039
L5	262a028	177377811028	HEX_100	19-SEP-2007 21:41	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	90416	88456	87718	89582	89186	AVRG		1.12E-5		89072	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	-2	50.00	1	100.0	0

Analyst: ZA Date: 09/19/07 Reviewer: LH Date: 09/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

177377811001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177441350001
Units : mg/L

Name : dsl 6pt.
Date : 02-NOV-2007 19:16
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	306a008	177441350008	DSL_10	02-NOV-2007 19:16	S6612
L2	306a009	177441350009	DSL_100	02-NOV-2007 19:44	S6613
L3	306a010	177441350010	DSL_500	02-NOV-2007 20:11	S6614
L4	306a011	177441350011	DSL_1000	02-NOV-2007 20:39	S6615
L5	306a012	177441350012	DSL_5000	02-NOV-2007 21:06	S6611
L6	306a013	177441350013	DSL_7500	02-NOV-2007 21:34	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	68436	66248	61702	61110	73711	65026	AVRG		1.51E-5		66039	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	4	100.0	0	500.0	-7	1000	-7	5000	12	7500	-2

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 177441350001

Name : dsl 6pt.
Cal Date : 02-NOV-2007

ICV 177441350015 (306a015 02-NOV-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	66039	66510	500.0	503.6	mg/L	1	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_500 IDF : 1.0
Seqnum : 117449717004 File : 312a004 Time : 08-NOV-2007 08:41
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	59401	500.0	509.9	mg/L	2	15	
Hexacosane	117245263001	19-JUN-2007	69898	67209	50.00	48.08	mg/L	-4	15	

Analyst: ATL Date: 11/08/07 * Reviewer: JDG Date: 11/08/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117449717005 File : 312a005 Time : 08-NOV-2007 09:09
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	38590	500.0	465.4	mg/L	-7	15	
Hexacosane	117245263001	19-JUN-2007	69898	63323	50.00	45.30	mg/L	-9	15	

Analyst: JDG Date: 11/08/07 Reviewer: ATL Date: 11/08/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_1000 IDF : 1.0
Seqnum : 117449717008 File : 312a008 Time : 08-NOV-2007 10:54
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	52283	1000	897.6	mg/L	-10	15	
Hexacosane	117245263001	19-JUN-2007	69898	60112	50.00	43.00	mg/L	-14	15	

JDG: 11/08/07 * ATL: 11/08/07 LH: 11/12/07

117449717008

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117449717009 File : 312a009 Time : 08-NOV-2007 11:22
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	40477	500.0	488.2	mg/L	-2	15	
Hexacosane	117245263001	19-JUN-2007	69898	66385	50.00	47.49	mg/L	-5	15	

Analyst: ATL Date: 11/08/07 Reviewer: LH Date: 11/08/07

117449717009

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
Seqnum : 227444644061 File : 308_061 Time : 06-NOV-2007 16:45
Standards: S6807

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	61798	250.0	247.2	mg/L	-1	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	64499	50.00	53.87	mg/L	8	15	

Analyst: ZA Date: 11/06/07 Reviewer: JDG Date: 11/07/07

227444644061

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227444644062 File : 308_062 Time : 06-NOV-2007 17:13
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	34788	500.0	452.7	mg/L	-9	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	61904	50.00	51.71	mg/L	3	15	

Analyst: ZA Date: 11/06/07 Reviewer: JDG Date: 11/07/07

227444644062

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 227444644075 File : 308_075 Time : 06-NOV-2007 23:54
Standards: S6809

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	58911	1000	942.4	mg/L	-6	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	62667	50.00	52.34	mg/L	5	15	

Analyst: ATL Date: 11/07/07 Reviewer: JDG Date: 11/07/07

227444644075

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227444644076 File : 308_076 Time : 07-NOV-2007 00:23
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	34895	500.0	454.1	mg/L	-9	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	61934	50.00	51.73	mg/L	3	15	

Analyst: ATL Date: 11/07/07 Reviewer: JDG Date: 11/07/07

227444644076

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 167444633082 File : 308b082 Time : 06-NOV-2007 19:51
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	18747	500.0	514.8	mg/L	3	15	
Hexacosane	167416763003	18-OCT-2007	28957	30185	50.00	52.12	mg/L	4	15	

Analyst: ZA Date: 11/06/07 Reviewer: JDG Date: 11/07/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_500 IDF : 1.0
Seqnum : 167444633083 File : 308b083 Time : 06-NOV-2007 20:19
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	27423	500.0	526.2	mg/L	5	15	
Hexacosane	167416763003	18-OCT-2007	28957	29195	50.00	50.41	mg/L	1	15	

Analyst: ZA Date: 11/06/07 Reviewer: JDG Date: 11/07/07

167444633083

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 167444633096 File : 308b096 Time : 07-NOV-2007 03:53
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	16713	500.0	459.0	mg/L	-8	15	
Hexacosane	167416763003	18-OCT-2007	28957	27633	50.00	47.71	mg/L	-5	15	

Analyst: ATL Date: 11/07/07 Reviewer: JDG Date: 11/07/07

167444633096

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_250 IDF : 1.0
Seqnum : 167444633097 File : 308b097 Time : 07-NOV-2007 04:20
Standards: S7540

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	26300	250.0	252.3	mg/L	1	15	
Hexacosane	167416763003	18-OCT-2007	28957	27581	50.00	47.62	mg/L	-5	15	

Analyst: ATL Date: 11/07/07 Reviewer: JDG Date: 11/07/07

167444633097

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 177449719004 File : 312a004 Time : 08-NOV-2007 08:41
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12 C24	177441350001	02-NOV-2007	66039	63153	500.0	478.2	mg/L	-4	15	
Hexacosane	177377811001	19-SEP-2007	89072	83629	50.00	46.94	mg/L	-6	15	

Analyst: JDG Date: 11/08/07 Reviewer: ATL Date: 11/08/07

177449719004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177449719005 File : 312a005 Time : 08-NOV-2007 09:08
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	51905	500.0	481.8	mg/L	-4	15	
Hexacosane	177377811001	19-SEP-2007	89072	86280	50.00	48.43	mg/L	-3	15	

Analyst: JDG Date: 11/08/07 Reviewer: ATL Date: 11/08/07

177449719005

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
Seqnum : 177449719016 File : 312a016 Time : 08-NOV-2007 14:26
Standards: S7540

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	65055	250.0	246.3	mg/L	-1	15	
Hexacosane	177377811001	19-SEP-2007	89072	86391	50.00	48.50	mg/L	-3	15	

Analyst: ZA Date: 11/09/07 Reviewer: JDG Date: 11/09/07

177449719016

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177449719017 File : 312a017 Time : 08-NOV-2007 14:53
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	53227	500.0	494.1	mg/L	-1	15	
Hexacosane	177377811001	19-SEP-2007	89072	89711	50.00	50.36	mg/L	1	15	

Analyst: ZA Date: 11/09/07 Reviewer: JDG Date: 11/09/07

177449719017

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117037956

Instrument : GC11A
Method : EPA 8015B

Begun : 01/26/07 08:36
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	026a001	X	IB			01/26/07 08:36	1.0	
002	026a002	XCCV	DSL_500			01/26/07 09:04	1.0	1
003	026a003	XCCV	MO_500			01/26/07 09:32	1.0	2
006	026a006	X	HEX_5			01/26/07 16:57	1.0	
007	026a007	X	IB			01/26/07 17:25	1.0	
008	026a008	CMARKER	C8-C50			01/26/07 17:55	1.0	3
009	026a009	X	CALIB			01/26/07 18:22	1.0	
010	026a010	XICAL	DSL_10			01/26/07 18:50	1.0	4
011	026a011	XICAL	DSL_100			01/26/07 19:18	1.0	5
012	026a012	XICAL	DSL_500			01/26/07 19:46	1.0	6
013	026a013	XICAL	DSL_1000			01/26/07 20:14	1.0	7
014	026a014	XICAL	DSL_5000			01/26/07 20:42	1.0	8
015	026a015	XICAL	DSL_7500			01/26/07 21:10	1.0	9
016	026a016	X	IB			01/26/07 21:38	1.0	
017	026a017	XICV	DSL_500			01/26/07 22:06	10.0	10
018	026a018	XICV	DSL_500			01/26/07 22:34	10.0	10
019	026a019	IB	CALIB			01/26/07 23:02	1.0	
020	026a020	ICAL	MO_50			01/26/07 23:30	1.0	11
021	026a021	ICAL	MO_250			01/26/07 23:58	1.0	12
022	026a022	ICAL	MO_500			01/27/07 00:26	1.0	13
023	026a023	ICAL	MO_1000			01/27/07 00:54	1.0	14
024	026a024	ICAL	MO_5000			01/27/07 01:22	1.0	15
025	026a025	IB	CALIB			01/27/07 01:50	1.0	
026	026a026	ICAL	HEX_5			01/27/07 02:18	1.0	16
027	026a027	ICAL	HEX_10			01/27/07 02:46	1.0	17
028	026a028	ICAL	HEX_25			01/27/07 03:14	1.0	18
029	026a029	ICAL	HEX_50			01/27/07 03:42	1.0	19
030	026a030	ICAL	HEX_100			01/27/07 04:10	1.0	20
031	026a031	ICAL	HEX_200			01/27/07 04:38	1.0	21
032	026a032	IB	CALIB			01/27/07 05:06	1.0	
033	026a033	ICAL	BUNK_50			01/27/07 05:35	1.0	22
034	026a034	ICAL	BUNK_500			01/27/07 06:03	1.0	23
035	026a035	ICAL	BUNK_1250			01/27/07 06:31	1.0	24
036	026a036	ICAL	BUNK_2500			01/27/07 06:59	1.0	25
037	026a037	ICAL	BUNK_5000			01/27/07 07:27	1.0	26
038	026a038	IB	CALIB			01/27/07 07:55	1.0	
039	026a039	ICAL	JP5_10			01/27/07 08:23	1.0	27
040	026a040	ICAL	JP5_100			01/27/07 08:52	1.0	28
041	026a041	ICAL	JP5_500			01/27/07 09:20	1.0	29
042	026a042	ICAL	JP5_1500			01/27/07 09:48	1.0	30
043	026a043	ICAL	JP5_3000			01/27/07 10:16	1.0	31
044	026a044	ICAL	JP5_5000			01/27/07 10:44	1.0	32
045	026a045	X	IB			01/27/07 11:12	1.0	

CP 01/29/07 : Need to re-run diesel ical. standards have concentrated and need to be re-made then re-run.

Analyst: CP Date: 01/29/07 Reviewer: MCH Date: 01/29/07

Standards used: 1=S5157 2=S5274 3=S4049 4=S4854 5=S4540 6=S4542 7=S4543 8=S4538 9=S4694 10=S4615 11=S4754 12=S4755 13=S4756 14=S4758 15=S4753 16=S4639 17=S4640 18=S4641 19=S5402 20=S4644 21=S4645 22=S4708 23=S4709 24=S4710 25=S4711 26=S4712 27=S4284 28=S4285 29=S4286 30=S4287 31=S4288 32=S4283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117061448

Instrument : GC11A
Method : EPA 8015B

Begun : 02/11/07 16:08
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	042a001	X	IB			02/11/07 16:08	1.0	
002	042a002	X	DSL_500			02/11/07 16:35	1.0	1
003	042a003	X	MO_500			02/11/07 17:03	1.0	2
004	042a004	X	MO_500			02/11/07 17:47	1.0	2
005	042a005	CCV	MO_500			02/11/07 18:33	1.0	2
006	042a006	CCV	DSL_500			02/11/07 19:02	1.0	1
007	042a007	CCV	DSL_500			02/11/07 19:30	1.0	1
008	042a008	X	IB			02/11/07 20:45	1.0	
009	042a009	ICAL	DSL_10			02/11/07 21:13	1.0	3
010	042a010	ICAL	DSL_100			02/11/07 21:41	1.0	4
011	042a011	ICAL	DSL_500			02/11/07 22:09	1.0	5
012	042a012	ICAL	DSL_1000			02/11/07 22:37	1.0	6
013	042a013	ICAL	DSL_5000			02/11/07 23:05	1.0	7
014	042a014	ICAL	DSL_7500			02/11/07 23:33	1.0	8
015	042a015	IB	CALIB			02/12/07 00:01	1.0	
016	042a016	ICV	DSL_500			02/12/07 00:28	1.0	9
017	042a017	XICV	DSL_500			02/12/07 00:57	1.0	9
018	042a018	X	IB			02/12/07 01:24	1.0	
019	042a019	CMARKER	C8-C50			02/12/07 09:23	1.0	10

CP 02/12/07 : carbon markers run after ical.

Analyst: CP Date: 02/12/07 Reviewer: MCH Date: 02/12/07

Standards used: 1=S5517 2=S4886 3=S5413 4=S5414 5=S5416 6=S5417 7=S5411 8=S5412 9=S5419 10=S4049

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117245263

Instrument : GC11A
Method : EPA 8015B

Begun : 06/19/07 07:43
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	170a001	X	PRIMER			06/19/07 07:43	1.0	
002	170a002	X	IB			06/19/07 08:11	1.0	
003	170a003	CMARKER	C8-C50			06/19/07 08:40	1.0	1
004	170a004	X	DSL_500			06/19/07 09:08	1.0	2
005	170a005	X	MO_500			06/19/07 09:36	1.0	3
006	170a006	X	MO_500			06/19/07 11:15	1.0	3
008	170a008	X	IB			06/19/07 12:29	1.0	
009	170a009	X	CMARKER			06/19/07 12:57	1.0	1
010	170a010	X	DSL_500			06/19/07 13:24	1.0	2
011	170a011	X	MO_500			06/19/07 13:52	1.0	3
012	170a012	IB	CALIB			06/19/07 15:16	1.0	
013	170a013	ICAL	HEX_5			06/19/07 15:44	1.0	4
014	170a014	ICAL	HEX_10			06/19/07 16:12	1.0	5
015	170a015	ICAL	HEX_25			06/19/07 16:39	1.0	6
016	170a016	ICAL	HEX_50			06/19/07 17:07	1.0	7
017	170a017	ICAL	HEX_100			06/19/07 17:35	1.0	8
018	170a018	ICAL	HEX_200			06/19/07 18:03	1.0	9
019	170a019	X	IB			06/19/07 18:30	1.0	

Analyst: DLM Date: 06/19/07 Reviewer: CW Date: 06/20/07

Standards used: 1=S4049 2=S6346 3=S6046 4=S5751 5=S5752 6=S5753 7=S5754 8=S5755 9=S5756

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117449717

Instrument : GC11A
Method : EPA 8015B
Begun : 11/08/07 07:17
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	312a001	X	PRIMER				11/08/07 07:17	1.0	
002	312a002	X	IB				11/08/07 07:45	1.0	
003	312a003	CMARKER	C8-C50				11/08/07 08:13	1.0	1
004	312a004	CCV	DSL_500				11/08/07 08:41	1.0	2
005	312a005	CCV	MO_500				11/08/07 09:09	1.0	3
006	312a006	SAMPLE	198880-002	S	Soil	131427	11/08/07 09:48	1.0	
007	312a007	SAMPLE	198908-011	S	Soil	131427	11/08/07 10:16	1.0	
008	312a008	CCV	DSL_1000				11/08/07 10:54	1.0	4
009	312a009	CCV	MO_500				11/08/07 11:22	1.0	3
010	312a010	SAMPLE	199008-002		Soil	131427	11/08/07 11:50	1.0	
011	312a011	SAMPLE	199008-003		Soil	131427	11/08/07 12:18	1.0	
012	312a012	SAMPLE	199008-005		Soil	131427	11/08/07 12:46	1.0	
013	312a013	SAMPLE	199008-006		Soil	131427	11/08/07 13:14	1.0	
014	312a014	SAMPLE	199008-004		Soil	131427	11/08/07 13:42	2.0	
015	312a015	X	IB				11/08/07 14:11	1.0	
016	312a016	SAMPLE	199008-010		Soil	131427	11/08/07 14:39	1.0	
017	312a017	SAMPLE	199008-015		Soil	131427	11/08/07 15:38	1.0	
018	312a018	SAMPLE	199008-014		Soil	131427	11/08/07 16:06	1.0	
019	312a019	SAMPLE	199008-011		Soil	131427	11/08/07 16:33	1.0	
020	312a020	X	IB				11/08/07 17:02	1.0	
021	312a021	SAMPLE	199008-013		Soil	131427	11/08/07 17:30	1.0	
022	312a022	X	CMARKER				11/08/07 17:58	1.0	1
023	312a023	CCV	DSL_250				11/08/07 18:26	1.0	5
024	312a024	CCV	MO_500				11/08/07 18:54	1.0	3
025	312a025	BLANK	QC414171	S	Water	131425	11/09/07 01:10	1.0	
026	312a026	SAMPLE	198996-001	S	Water	131425	11/09/07 01:38	1.0	
027	312a027	SAMPLE	198959-026		Soil	131391	11/09/07 02:06	1.0	
028	312a028	SAMPLE	198959-033		Soil	131391	11/09/07 02:34	1.0	
029	312a029	SAMPLE	198959-034		Soil	131391	11/09/07 03:02	1.0	
030	312a030	SAMPLE	198959-027		Soil	131391	11/09/07 03:30	1.0	
031	312a031	SAMPLE	198959-022		Soil	131391	11/09/07 03:58	1.0	
032	312a032	X	IB				11/09/07 04:26	1.0	
033	312a033	SAMPLE	198959-024		Soil	131391	11/09/07 04:54	1.0	
034	312a034	SAMPLE	199008-008		Soil	131427	11/09/07 05:22	1.0	
035	312a035	SAMPLE	199008-009		Soil	131427	11/09/07 05:50	1.0	
036	312a036	X	IB				11/09/07 06:18	1.0	
037	312a037	X	CMARKER				11/09/07 06:46	1.0	1
038	312a038	CCV	DSL_500				11/09/07 07:15	1.0	2
039	312a039	CCV	MO_500				11/09/07 07:43	1.0	3
040	312a040	CCV	JP5_250				11/09/07 08:11	1.0	6
041	312a041	CCV	BUNK_1250				11/09/07 08:39	1.0	7
042	312a042	MS	QC414318	S	Soil	131458	11/09/07 09:07	1.0	
043	312a043	MSD	QC414319	S	Soil	131458	11/09/07 09:35	1.0	
044	312a044	BLANK	QC414171	S	Water	131425	11/09/07 10:04	1.0	
045	312a045	BLANK	QC414171		Water	131425	11/09/07 10:32	1.0	
046	312a046	SAMPLE	198925-001		Water	131425	11/09/07 11:14	1.0	
047	312a047	SAMPLE	198999-006		Water	131425	11/09/07 11:42	1.0	
048	312a048	SAMPLE	198999-005		Water	131425	11/09/07 12:10	1.0	
049	312a049	SAMPLE	198999-004		Water	131425	11/09/07 12:38	1.0	
050	312a050	X	IB				11/09/07 13:07	1.0	
051	312a051	SAMPLE	198999-006	S	Water	131425	11/09/07 13:35	1.0	
052	312a052	SAMPLE	198999-004	S	Water	131425	11/09/07 14:03	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117449717

Instrument : GC11A
Method : EPA 8015B

Begun : 11/08/07 07:17
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	312a053	X	CMARKER				11/09/07 14:32	1.0	1
054	312a054	CCV	DSL_1000				11/09/07 15:00	1.0	4
055	312a055	CCV	MO_500				11/09/07 15:28	1.0	3
056	312a056	CCV	JP5_250				11/09/07 15:56	1.0	6
057	312a057	CCV	BUNK_1250				11/09/07 17:04	1.0	7
058	312a058	SAMPLE	198925-001		Water	131425	11/09/07 17:42	1.0	
059	312a059	SAMPLE	198999-001		Water	131425	11/09/07 18:10	1.0	
060	312a060	SAMPLE	198999-003		Water	131425	11/09/07 18:38	1.0	
061	312a061	SAMPLE	198999-003	S	Water	131425	11/09/07 19:06	1.0	
062	312a062	SAMPLE	199036-004	S	Water	131425	11/09/07 19:35	1.0	
063	312a063	SAMPLE	199026-004	S	Water	131425	11/09/07 20:03	1.0	
064	312a064	X	IB				11/09/07 20:31	1.0	
065	312a065	SAMPLE	199026-006	S	Water	131425	11/09/07 21:00	1.0	
066	312a066	SAMPLE	199036-001	S	Water	131425	11/09/07 21:28	1.0	
067	312a067	SAMPLE	199036-002	S	Water	131425	11/09/07 21:56	1.0	
068	312a068	SAMPLE	199036-003	S	Water	131425	11/09/07 22:24	1.0	
069	312a069	X	CMARKER				11/09/07 22:52	1.0	1
070	312a070	CCV	DSL_500				11/09/07 23:21	1.0	2
077	312a077	X	CCV				11/09/07 23:51	1.0	7
078	312a078	BLANK	QC414590		Soil	131525	11/10/07 00:19	1.0	
079	312a079	LCS	QC414591		Soil	131525	11/10/07 00:47	1.0	
080	312a080	SAMPLE	199025-001		Soil	131525	11/10/07 01:16	1.0	
081	312a081	SAMPLE	199025-002		Soil	131525	11/10/07 01:44	1.0	
082	312a082	SAMPLE	199025-013		Soil	131525	11/10/07 02:12	1.0	
083	312a083	SAMPLE	199025-016		Soil	131525	11/10/07 02:40	200.0	
084	312a084	X	IB				11/10/07 03:08	1.0	
085	312a085	SAMPLE	199025-003		Soil	131525	11/10/07 03:37	1.0	
086	312a086	SAMPLE	199025-004		Soil	131525	11/10/07 04:05	1.0	
087	312a087	SAMPLE	199025-017		Soil	131525	11/10/07 04:33	200.0	
088	312a088	X	IB				11/10/07 05:01	1.0	
089	312a089	SAMPLE	199025-005		Soil	131525	11/10/07 05:29	1.0	
090	312a090	CCV	DSL_1000				11/10/07 05:57	1.0	4
091	312a091	CCV	MO_500				11/10/07 06:26	1.0	3
092	312a092	X	CCV				11/10/07 06:54	1.0	4
093	312a093	X	CCV				11/10/07 07:22	1.0	3
094	312a094	SAMPLE	199025-007		Soil	131525	11/10/07 07:50	1.0	
095	312a095	SAMPLE	199025-006		Soil	131525	11/10/07 08:18	1.0	
096	312a096	SAMPLE	199025-014		Soil	131525	11/10/07 08:46	1.0	
097	312a097	SAMPLE	199025-011		Soil	131525	11/10/07 09:15	1.0	
098	312a098	SAMPLE	199025-020		Soil	131525	11/10/07 09:43	100.0	
099	312a099	SAMPLE	199025-019		Soil	131525	11/10/07 10:11	200.0	
100	312a100	X	IB				11/10/07 10:39	1.0	
101	312a101	MS	QC414592		Soil	131525	11/10/07 11:07	1.0	
102	312a102	MSD	QC414593		Soil	131525	11/10/07 11:36	1.0	
103	312a103	MSS	199025-015		Soil	131525	11/10/07 12:04	1.0	
104	312a104	SAMPLE	199025-012		Soil	131525	11/10/07 12:32	1.0	
105	312a105	CCV	DSL_500				11/10/07 13:00	1.0	2
106	312a106	CCV	MO_500				11/10/07 13:28	1.0	3
107	312a107	X	CMARKER				11/10/07 13:56	1.0	1

Standards used: 1=S7307 2=S7541 3=S7310 4=S6809 5=S7540 6=S6929 7=S7350

00117

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167416763

Instrument : GC15B
Method : EPA 8015B

Begun : 10/16/07 10:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	289b001	X	PRIMER			10/16/07 10:03	1.0	
002	289b002	X	IB			10/16/07 10:30	1.0	
003	289b003	X	CMARKER			10/16/07 10:58	1.0	1
004	289b004	CCV	DSL_250			10/16/07 11:26	1.0	2
005	289b005	CCV	MO_500			10/16/07 11:53	1.0	3
006	289b006	CCV	DSL_250			10/16/07 12:47	1.0	2
007	289b007	X	IB			10/17/07 14:25	1.0	
009	289b009	X	IB			10/17/07 16:54	1.0	
010	289b010	X	IB			10/17/07 17:22	1.0	
011	289b011	CMARKER	C10-C50			10/17/07 17:50	1.0	1
012	289b012	CCV	DSL_500			10/17/07 18:17	1.0	4
013	289b013	CCV	MO_500			10/17/07 18:45	1.0	3
014	289b014	CCV	OTP_50			10/17/07 19:12	1.0	5
015	289b015	X	IB			10/18/07 01:44	1.0	
016	289b016	IB	CALIB			10/18/07 02:12	1.0	
017	289b017	ICAL	DSL_10			10/18/07 02:40	1.0	6
018	289b018	ICAL	DSL_100			10/18/07 03:07	1.0	7
019	289b019	ICAL	DSL_500			10/18/07 03:35	1.0	8
020	289b020	ICAL	DSL_1000			10/18/07 04:03	1.0	9
021	289b021	ICAL	DSL_5000			10/18/07 04:31	1.0	10
022	289b022	ICAL	DSL_7500			10/18/07 04:58	1.0	11
023	289b023	IB	CALIB			10/18/07 05:26	1.0	
024	289b024	ICV	DSL_500			10/18/07 05:54	10.0	12
025	289b025	X	ICV			10/18/07 06:22	1.0	12
026	289b026	IB	CALIB			10/18/07 06:50	1.0	
027	289b027	ICAL	MO_50			10/18/07 07:18	1.0	13
028	289b028	ICAL	MO_250			10/18/07 07:46	1.0	14
029	289b029	ICAL	MO_500			10/18/07 08:14	1.0	15
030	289b030	ICAL	MO_1000			10/18/07 08:42	1.0	16
031	289b031	ICAL	MO_5000			10/18/07 09:10	1.0	17
032	289b032	ICAL	MO_7500			10/18/07 09:38	1.0	18
033	289b033	IB	CALIB			10/18/07 10:06	1.0	
034	289b034	IB	CALIB			10/18/07 10:34	1.0	
035	289b035	ICAL	HEX_5			10/18/07 11:02	1.0	19
036	289b036	ICAL	HEX_10			10/18/07 11:30	1.0	20
037	289b037	ICAL	HEX_25			10/18/07 11:57	1.0	21
038	289b038	ICAL	HEX_50			10/18/07 12:25	1.0	22
039	289b039	ICAL	HEX_100			10/18/07 12:53	1.0	23
040	289b040	ICAL	HEX_200			10/18/07 13:21	1.0	24
041	289b041	IB	CALIB			10/18/07 13:48	1.0	
042	289b042	ICAL	OTP_5			10/18/07 14:16	1.0	25
043	289b043	ICAL	OTP_10			10/18/07 14:44	1.0	26
044	289b044	ICAL	OTP_25			10/18/07 15:12	1.0	27
045	289b045	ICAL	OTP_50			10/18/07 15:39	1.0	28
046	289b046	ICAL	OTP_100			10/18/07 16:07	1.0	29
047	289b047	ICAL	OTP_200			10/18/07 16:34	1.0	30
048	289b048	IB	CALIB			10/18/07 17:02	1.0	

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Standards used: 1=S6952 2=S6807 3=S7310 4=S6808 5=S6922 6=S6612 7=S6613 8=S6614 9=S6615 10=S6611 11=S6616 12=S6617 13=S6848 14=S6849 15=S6850 16=S6851 17=S6846 18=S6847 19=S7036 20=S7037 21=S7038 22=S7039 23=S7040 24=S7041 25=S6397 26=S6398 27=S6399 28=S6400 29=S6401 30=S6402

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167444633

Instrument : GC15B
Method : EPA 8015B

Begun : 11/04/07 18:33
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	308b001	X	PRIMER				11/04/07 18:33	1.0	
002	308b002	X	IB				11/04/07 19:00	1.0	
003	308b003	X	CMARKER				11/04/07 19:28	1.0	1
004	308b004	CCV	DSL_500				11/04/07 19:55	1.0	2
005	308b005	CCV	MO_500				11/04/07 20:23	1.0	3
006	308b006	X	IB				11/05/07 02:22	1.0	
007	308b007	CCV	OTP_50				11/05/07 02:50	1.0	4
008	308b008	BS	QC413530	S	Water	131266	11/05/07 04:08	1.0	
009	308b009	BSD	QC413531	S	Water	131266	11/05/07 04:36	1.0	
010	308b010	BLANK	QC413529	S	Water	131266	11/05/07 05:03	1.0	
011	308b011	SAMPLE	198824-001		Water	131266	11/05/07 05:31	1.0	
012	308b012	SAMPLE	198824-002		Water	131266	11/05/07 05:59	1.0	
013	308b013	SAMPLE	198620-049		Water	131266	11/05/07 06:27	1.0	
014	308b014	SAMPLE	198829-007	S	Soil	131280	11/05/07 06:55	1.0	
015	308b015	SAMPLE	198829-010	S	Soil	131280	11/05/07 07:22	1.0	
016	308b016	SAMPLE	198910-001	S	Soil	131280	11/05/07 07:50	1.0	
017	308b017	X	IB				11/05/07 08:18	1.0	
018	308b018	SAMPLE	198824-003		Water	131266	11/05/07 08:46	1.0	
019	308b019	X	CMARKER				11/05/07 09:14	1.0	1
020	308b020	CCV	MO_500				11/05/07 09:42	1.0	3
021	308b021	CCV	DSL_250				11/05/07 10:10	1.0	5
022	308b022	CCV	OTP_50				11/05/07 10:38	1.0	4
023	308b023	BLANK	QC413529	S	Water	131266	11/05/07 11:07	1.0	
024	308b024	CCV	MO_500				11/05/07 12:26	1.0	3
025	308b025	CCV	DSL_1000				11/05/07 12:53	1.0	6
026	308b026	SAMPLE	198843-001		Soil	131280	11/05/07 13:21	200.0	
027	308b027	SAMPLE	198874-003		Soil	131280	11/05/07 13:49	3.0	
028	308b028	SAMPLE	198874-002		Soil	131280	11/05/07 14:17	3.0	
029	308b029	SAMPLE	198874-004		Soil	131280	11/05/07 14:44	20.0	
030	308b030	SAMPLE	198874-006		Soil	131280	11/05/07 15:12	1.0	
031	308b031	X	IB				11/05/07 15:40	1.0	
032	308b032	SAMPLE	198874-005		Soil	131280	11/05/07 16:08	1.0	
033	308b033	SAMPLE	198874-001		Soil	131280	11/05/07 16:35	1.0	
034	308b034	X	IB				11/05/07 17:03	1.0	
035	308b035	X	IB				11/05/07 21:43	1.0	
036	308b036	X	CMARKER				11/05/07 22:11	1.0	1
037	308b037	CCV	MO_500				11/05/07 22:39	1.0	3
038	308b038	CCV	DSL_500				11/05/07 23:07	1.0	7
039	308b039	CCV	OTP_50				11/05/07 23:35	1.0	4
040	308b040	SAMPLE	198698-002	S	Water	131266	11/06/07 00:15	1.0	
041	308b041	SAMPLE	198698-003	S	Water	131266	11/06/07 00:43	1.0	
042	308b042	SAMPLE	198698-004	S	Water	131266	11/06/07 01:11	1.0	
043	308b043	SAMPLE	198698-005	S	Water	131266	11/06/07 01:39	1.0	
044	308b044	SAMPLE	198859-006		Water	131293	11/06/07 02:07	1.0	
045	308b045	SAMPLE	198859-004		Water	131293	11/06/07 02:35	1.0	
046	308b046	SAMPLE	198859-005		Water	131293	11/06/07 03:03	1.0	
047	308b047	SAMPLE	198903-002	S	Soil	131296	11/06/07 03:31	10.0	
048	308b048	SAMPLE	198903-003	S	Soil	131296	11/06/07 03:58	20.0	
049	308b049	X	IB				11/06/07 04:26	1.0	
050	308b050	SAMPLE	198956-008	S	Soil	131296	11/06/07 04:54	1.0	
051	308b051	CCV	MO_500				11/06/07 05:22	1.0	3
052	308b052	CCV	DSL_250				11/06/07 05:50	1.0	5

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167444633

Instrument : GC15B
Method : EPA 8015B

Begun : 11/04/07 18:33
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	308b053	X	CCV				11/06/07 06:18	1.0	3
054	308b054	X	CCV				11/06/07 06:46	1.0	5
055	308b055	LCS	QC413625	S	Soil	131296	11/06/07 07:13	1.0	
056	308b056	BLANK	QC413624	S	Soil	131296	11/06/07 07:42	1.0	
057	308b057	MSS	198956-001	S	Soil	131296	11/06/07 08:10	1.0	
058	308b058	MS	QC413626	S	Soil	131296	11/06/07 08:37	1.0	
059	308b059	MSD	QC413627	S	Soil	131296	11/06/07 09:05	1.0	
060	308b060	X	IB				11/06/07 09:33	1.0	
061	308b061	SAMPLE	198903-006	S	Soil	131296	11/06/07 10:02	1.0	
062	308b062	SAMPLE	198956-003	S	Soil	131296	11/06/07 10:30	1.0	
063	308b063	SAMPLE	198956-004	S	Soil	131296	11/06/07 10:58	1.0	
064	308b064	SAMPLE	198956-005	S	Soil	131296	11/06/07 11:26	1.0	
065	308b065	X	IB				11/06/07 11:54	1.0	
066	308b066	SAMPLE	198956-009	S	Soil	131296	11/06/07 12:22	1.0	
067	308b067	X	CMARKER				11/06/07 12:50	1.0	1
068	308b068	CCV	MO_500				11/06/07 13:19	1.0	3
069	308b069	CCV	DSL_1000				11/06/07 13:47	1.0	6
070	308b070	SAMPLE	198956-010	S	Soil	131296	11/06/07 14:16	1.0	
071	308b071	SAMPLE	198956-012	S	Soil	131296	11/06/07 14:44	1.0	
072	308b072	SAMPLE	198956-013	S	Soil	131296	11/06/07 15:11	1.0	
073	308b073	SAMPLE	198956-006	S	Soil	131296	11/06/07 15:39	1.0	
074	308b074	SAMPLE	198956-007	S	Soil	131296	11/06/07 16:07	1.0	
075	308b075	X	IB				11/06/07 16:35	1.0	
076	308b076	SAMPLE	198956-014	S	Soil	131296	11/06/07 17:03	1.0	
077	308b077	SAMPLE	198956-015	S	Soil	131296	11/06/07 17:31	1.0	
078	308b078	SAMPLE	198929-003		Soil	131296	11/06/07 17:59	1.0	
079	308b079	SAMPLE	198926-001		Water	131293	11/06/07 18:27	1.0	
080	308b080	X	IB				11/06/07 18:55	1.0	
081	308b081	BLANK	QC413624		Soil	131296	11/06/07 19:23	1.0	
082	308b082	CCV	MO_500				11/06/07 19:51	1.0	3
083	308b083	CCV	DSL_500				11/06/07 20:19	1.0	7
084	308b084	LCS	QC413728	S	Soil	131317	11/06/07 20:47	1.0	
085	308b085	BLANK	QC413727	S	Soil	131317	11/06/07 22:48	1.0	
086	308b086	BLANK	QC413727		Soil	131317	11/06/07 23:16	1.0	
087	308b087	SAMPLE	198959-002		Soil	131317	11/06/07 23:44	1.0	
088	308b088	SAMPLE	198959-003		Soil	131317	11/07/07 00:11	1.0	
089	308b089	SAMPLE	198959-004		Soil	131317	11/07/07 00:39	1.0	
090	308b090	MSS	198959-001		Soil	131317	11/07/07 01:07	1.0	
091	308b091	MS	QC413729		Soil	131317	11/07/07 01:35	1.0	
092	308b092	MSD	QC413730		Soil	131317	11/07/07 02:02	1.0	
093	308b093	X	IB				11/07/07 02:30	1.0	
094	308b094	SAMPLE	198959-005		Soil	131317	11/07/07 02:58	1.0	
095	308b095	X	CMARKER				11/07/07 03:25	1.0	1
096	308b096	CCV	MO_500				11/07/07 03:53	1.0	3
097	308b097	CCV	DSL_250				11/07/07 04:20	1.0	8
098	308b098	X	CCV				11/07/07 04:48	1.0	3
099	308b099	X	CCV				11/07/07 05:16	1.0	8

Standards used: 1=S6952 2=S6808 3=S7310 4=S6922 5=S6807 6=S6809 7=S7541 8=S7540

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177330472

Instrument : GC17A
Method : EPA 8015B

Begun : 08/17/07 11:52
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	229a001	X	PRIMER			08/17/07 11:52	1.0	
002	229a002	X	IB			08/17/07 12:20	1.0	
003	229a003	CMARKER	C10-C50			08/17/07 12:47	1.0	1
004	229a004	IB	CALIB			08/17/07 13:14	1.0	
005	229a005	ICAL	DSL_10			08/17/07 13:42	1.0	2
006	229a006	ICAL	DSL_100			08/17/07 14:09	1.0	3
007	229a007	ICAL	DSL_500			08/17/07 14:37	1.0	4
008	229a008	ICAL	DSL_1000			08/17/07 15:04	1.0	5
009	229a009	ICAL	DSL_5000			08/17/07 15:31	1.0	6
010	229a010	ICAL	DSL_7500			08/17/07 15:59	1.0	7
011	229a011	IB	CALIB			08/17/07 16:26	1.0	
012	229a012	ICV	DSL_500			08/17/07 16:54	1.0	8
013	229a013	X	ICV			08/17/07 17:28	1.0	8
014	229a014	IB	CALIB			08/17/07 17:56	1.0	
015	229a015	ICAL	MO_50			08/17/07 18:23	1.0	9
016	229a016	ICAL	MO_250			08/17/07 18:51	1.0	10
017	229a017	ICAL	MO_500			08/17/07 19:18	1.0	11
018	229a018	ICAL	MO_1000			08/17/07 19:45	1.0	12
019	229a019	ICAL	MO_5000			08/17/07 20:13	1.0	13
020	229a020	ICAL	MO_7500			08/17/07 20:40	1.0	14
021	229a021	IB	CALIB			08/17/07 21:08	1.0	

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/22/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	262a001	X	PRIMER				09/19/07 08:51	1.0		
002	262a002	X	IB				09/19/07 09:18	1.0		
003	262a003	XCMARKER	C10-C50				09/19/07 09:46	1.0	1	
005	262a005	X	IB				09/19/07 11:09	1.0		
006	262a006	XCMARKER	C10-C50				09/19/07 11:36	1.0	1	
007	262a007	CCV	DSL_500				09/19/07 12:04	1.0	2	
008	262a008	CCV	MO_500				09/19/07 12:31	1.0	3	
009	262a009	CCV	OTP_50				09/19/07 12:58	1.0	4	
010	262a010	SAMPLE	197670-001		Soil	129574	09/19/07 13:26	1.0		
011	262a011	SAMPLE	197670-002		Soil	129574	09/19/07 13:54	1.0		
012	262a012	SAMPLE	197670-003		Soil	129574	09/19/07 14:21	1.0		
013	262a013	SAMPLE	197670-004		Soil	129574	09/19/07 14:48	1.0		
014	262a014	SAMPLE	197670-005		Soil	129574	09/19/07 15:16	1.0		
015	262a015	SAMPLE	197670-006		Soil	129574	09/19/07 15:44	1.0		
016	262a016	SAMPLE	197670-007		Soil	129574	09/19/07 16:11	1.0		
017	262a017	SAMPLE	197670-008		Soil	129574	09/19/07 16:38	1.0		
018	262a018	SAMPLE	197670-009		Soil	129574	09/19/07 17:06	1.0		
019	262a019	SAMPLE	197670-010		Soil	129574	09/19/07 17:33	1.0		
020	262a020	CCV	DSL_1000				09/19/07 18:00	1.0	5	
021	262a021	CCV	MO_500				09/19/07 18:28	1.0	3	
022	262a022	CCV	DSL_1000				09/19/07 18:55	1.0	5	
023	262a023	IB	CALIB				09/19/07 19:23	1.0		
024	262a024	ICAL	HEX_5				09/19/07 19:51	1.0	6	
025	262a025	ICAL	HEX_10				09/19/07 20:18	1.0	7	
026	262a026	ICAL	HEX_25				09/19/07 20:46	1.0	8	
027	262a027	ICAL	HEX_50				09/19/07 21:13	1.0	9	
028	262a028	ICAL	HEX_100				09/19/07 21:41	1.0	10	
029	262a029	X	IB				09/19/07 22:08	1.0		
030	262a030	X	CMARKER				09/19/07 22:36	1.0	1	
031	262a031	CCV	DSL_250				09/19/07 23:03	1.0	11	
032	262a032	CCV	MO_500				09/19/07 23:31	1.0	3	
033	262a033	X	IB				09/20/07 00:02	1.0		
034	262a034	X	TANKCHK				09/20/07 00:29	1.0		
035	262a035	X	TANKCHK				09/20/07 00:56	1.0		
036	262a036	SAMPLE	197624-001		Water	129615	09/20/07 01:24	1.0		
037	262a037	XCMARKER	C10-C50				09/20/07 01:51	1.0	1	
038	262a038	CCV	DSL_500				09/20/07 02:18	1.0	2	
039	262a039	CCV	MO_500				09/20/07 02:46	1.0	3	
040	262a040	X	CCV				09/20/07 03:13	1.0	2	
041	262a041	X	CCV				09/20/07 03:41	1.0	3	
042	262a042	X	IB				09/20/07 08:18	1.0		
043	262a043	X	IB				09/20/07 08:45	1.0		
044	262a044	SAMPLE	197668-024	S	Soil	129593	09/20/07 09:13	10.0		
045	262a045	LCS	QC406929	S	Soil	129661	09/20/07 09:40	1.0		
046	262a046	BLANK	QC406928	S	Soil	129661	09/20/07 10:08	1.0		
047	262a047	SAMPLE	197557-001	S	Soil	129661	09/20/07 10:36	1.0		2:BUNKC:12-40=6200
048	262a048	SAMPLE	197557-019	S	Soil	129661	09/20/07 11:07	1.0		
049	262a049	X	IB				09/20/07 11:34	1.0		
050	262a050	SAMPLE	197557-015	S	Soil	129661	09/20/07 12:02	1.0		
051	262a051	CCV	DSL_1000				09/20/07 12:29	1.0	5	
052	262a052	X					09/20/07 12:57	1.0	3	
053	262a053	CCV	MO_500				09/20/07 13:26	1.0	3	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	262a054	SAMPLE	197557-017	S	Soil	129532	09/20/07 14:25	1.0	
055	262a055	CCV	DSL_250				09/20/07 14:55	1.0	11
056	262a056	CCV	MO_500				09/20/07 15:23	1.0	3
057	262a057	CCV	DSL_250				09/20/07 15:53	1.0	11
058	262a058	X	IB				09/21/07 01:38	1.0	
059	262a059	X	CMARKER				09/21/07 02:06	1.0	1
060	262a060	IB	CALIB				09/21/07 02:33	1.0	
061	262a061	ICAL	DSL_10				09/21/07 03:01	1.0	12
062	262a062	ICAL	DSL_100				09/21/07 03:28	1.0	13
063	262a063	ICAL	DSL_500				09/21/07 03:55	1.0	14
064	262a064	ICAL	DSL_1000				09/21/07 04:23	1.0	15
065	262a065	ICAL	DSL_5000				09/21/07 04:51	1.0	16
066	262a066	ICAL	DSL_7500				09/21/07 05:18	1.0	17
067	262a067	IB	CALIB				09/21/07 05:46	1.0	
068	262a068	ICV	DSL_500				09/21/07 06:13	1.0	18
069	262a069	X	ICV				09/21/07 06:41	1.0	19

Standards used: 1=S6952 2=S6808 3=S6790 4=S6922 5=S6809 6=S7036 7=S7037 8=S7038 9=S7039 10=S7040 11=S6807 12=S6612 13=S6613 14=S6614 15=S6615 16=S6611 17=S6616 18=S6617 19=S56617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177441350

Instrument : GC17A
Method : EPA 8015B

Begun : 11/02/07 11:50
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	306a001	X	IB			11/02/07 11:50	1.0	
002	306a002	X	IB			11/02/07 12:17	1.0	
003	306a003	CMARKER	C8-C50			11/02/07 12:45	1.0	1
004	306a004	CCV	DSL_500			11/02/07 13:12	1.0	2
005	306a005	CCV	MO_500			11/02/07 13:40	1.0	3
006	306a006	CCV	DSL_500			11/02/07 14:58	1.0	2
007	306a007	IB	CALIB			11/02/07 17:33	1.0	
008	306a008	ICAL	DSL_10			11/02/07 19:16	1.0	4
009	306a009	ICAL	DSL_100			11/02/07 19:44	1.0	5
010	306a010	ICAL	DSL_500			11/02/07 20:11	1.0	6
011	306a011	ICAL	DSL_1000			11/02/07 20:39	1.0	7
012	306a012	ICAL	DSL_5000			11/02/07 21:06	1.0	8
013	306a013	ICAL	DSL_7500			11/02/07 21:34	1.0	9
014	306a014	IB	CALIB			11/02/07 22:01	1.0	
015	306a015	ICV	DSL_500			11/02/07 22:29	1.0	10
016	306a016	X	ICV			11/02/07 22:56	1.0	10
017	306a017	IB	CALIB			11/02/07 23:24	1.0	

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Standards used: 1=S6952 2=S7541 3=S7310 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177449719

Instrument : GC17A
Method : EPA 8015B
Begun : 11/08/07 07:19
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	312a001	X	PRIMER				11/08/07 07:19	1.0	
002	312a002	X	IB				11/08/07 07:46	1.0	
003	312a003	X	CMARKER				11/08/07 08:13	1.0	1
004	312a004	CCV	DSL_500				11/08/07 08:41	1.0	2
005	312a005	CCV	MO_500				11/08/07 09:08	1.0	3
006	312a006	BLANK	QC414179	S	Soil	131427	11/08/07 09:49	1.0	
007	312a007	LCS	QC414180	S	Soil	131427	11/08/07 10:17	1.0	
008	312a008	SAMPLE	199006-001	S	Soil	131427	11/08/07 10:44	1.0	
009	312a009	MSS	199008-018		Soil	131427	11/08/07 11:12	1.0	
010	312a010	MS	QC414181		Soil	131427	11/08/07 11:40	1.0	
011	312a011	MSD	QC414182		Soil	131427	11/08/07 12:07	1.0	
012	312a012	BLANK	QC414179		Soil	131427	11/08/07 12:35	1.0	
013	312a013	SAMPLE	199008-012		Soil	131427	11/08/07 13:02	1.0	
014	312a014	SAMPLE	199008-017		Soil	131427	11/08/07 13:30	1.0	
015	312a015	SAMPLE	199008-007		Soil	131427	11/08/07 13:58	1.0	
016	312a016	CCV	DSL_250				11/08/07 14:26	1.0	4
017	312a017	CCV	MO_500				11/08/07 14:53	1.0	3
018	312a018	X	CCV				11/08/07 16:50	1.0	4
019	312a019	X	CCV				11/08/07 17:18	1.0	3
020	312a020	LCS	QC414317	S	Soil	131458	11/09/07 02:02	1.0	
021	312a021	BLANK	QC414316	S	Soil	131458	11/09/07 02:29	1.0	
022	312a022	BLANK	QC414316		Soil	131458	11/09/07 02:57	1.0	
023	312a023	SAMPLE	199039-001		Soil	131458	11/09/07 03:24	1.0	
024	312a024	SAMPLE	199021-003	S	Soil	131458	11/09/07 03:52	3.0	
025	312a025	X	IB				11/09/07 04:19	1.0	
026	312a026	MSS	199042-003	S	Soil	131458	11/09/07 04:47	1.0	
027	312a027	X	CMARKER				11/09/07 05:14	1.0	1
028	312a028	CCV	DSL_1000				11/09/07 05:42	1.0	5
029	312a029	CCV	MO_500				11/09/07 06:09	1.0	3

Standards used: 1=S6952 2=S7541 3=S7310 4=S7540 5=S6809

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227408183

Instrument : GC14B
Method : EPA 8015B

Begun : 10/10/07 11:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	283_001	IB	CALIB			10/10/07 11:03	1.0	
002	283_002	XCMARKER	C8-C50			10/10/07 11:32	1.0	1
003	283_003	ICAL	DSL_10			10/10/07 12:00	1.0	2
004	283_004	ICAL	DSL_100			10/10/07 12:29	1.0	3
005	283_005	ICAL	DSL_500			10/10/07 12:58	1.0	4
006	283_006	ICAL	DSL_1000			10/10/07 13:27	1.0	5
007	283_007	ICAL	DSL_5000			10/10/07 13:56	1.0	6
008	283_008	ICAL	DSL_7500			10/10/07 14:25	1.0	7
009	283_009	IB	CALIB			10/10/07 14:54	1.0	
010	283_010	ICV	DSL_500			10/10/07 15:23	1.0	8
011	283_011	IB	CALIB			10/10/07 15:51	1.0	
012	283_012	ICAL	MO_50			10/10/07 16:20	1.0	9
013	283_013	ICAL	MO_250			10/10/07 16:48	1.0	10
014	283_014	ICAL	MO_500			10/10/07 17:16	1.0	11
015	283_015	ICAL	MO_1000			10/10/07 17:44	1.0	12
016	283_016	XICAL	MO_5000			10/10/07 18:13	1.0	13
017	283_017	XICAL	MO_7500			10/10/07 18:41	1.0	14
018	283_018	IB	CALIB			10/10/07 19:09	1.0	
019	283_019	ICAL	HEX_5			10/10/07 19:38	1.0	15
020	283_020	ICAL	HEX_10			10/10/07 20:06	1.0	16
021	283_021	ICAL	HEX_25			10/10/07 20:34	1.0	17
022	283_022	ICAL	HEX_50			10/10/07 21:03	1.0	18
023	283_023	ICAL	HEX_100			10/10/07 21:31	1.0	19
024	283_024	ICAL	HEX_200			10/10/07 22:00	1.0	20
025	283_025	IB	CALIB			10/10/07 22:28	1.0	
026	283_026	ICAL	OTP_5			10/10/07 22:57	1.0	21
027	283_027	ICAL	OTP_10			10/10/07 23:25	1.0	22
028	283_028	ICAL	OTP_25			10/10/07 23:54	1.0	23
029	283_029	ICAL	OTP_50			10/11/07 00:22	1.0	24
030	283_030	ICAL	OTP_100			10/11/07 00:51	1.0	25
031	283_031	IB	CALIB			10/11/07 01:19	1.0	
032	283_032	ICAL	JETA_10			10/11/07 01:48	1.0	26
033	283_033	ICAL	JETA_100			10/11/07 02:16	1.0	27
034	283_034	ICAL	JETA_500			10/11/07 02:45	1.0	28
035	283_035	ICAL	JETA_1000			10/11/07 03:13	1.0	29
036	283_036	ICAL	JETA_2000			10/11/07 03:41	1.0	30
037	283_037	IB	CALIB			10/11/07 04:10	1.0	
038	283_038	X	IB			10/11/07 09:38	1.0	
039	283_039	IB	CALIB			10/11/07 10:06	1.0	
040	283_040	ICAL	MO_5000			10/11/07 10:35	1.0	13
041	283_041	XICAL	MO_7500			10/11/07 11:03	1.0	14
042	283_042	IB	CALIB			10/11/07 11:32	1.0	

Analyst: JDG Date: 10/11/07 Reviewer: LH Date: 10/11/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847 15=S7036 16=S7037 17=S7038 18=S7039 19=S7040 20=S7041 21=S6397 22=S6398 23=S6399 24=S6400 25=S6401 26=S6528 27=S6529 28=S6530 29=S6531 30=S6532

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227444644

Instrument : GC14B
Method : EPA 8015B

Begun : 11/04/07 18:44
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	308_001	X	PRIMER				11/04/07 18:44	1.0		
002	308_002	X	IB				11/04/07 19:12	1.0		
003	308_003	X	CMARKER				11/04/07 19:40	1.0	1	
004	308_004	CCV	DSL_500				11/04/07 20:09	1.0	2	
005	308_005	CCV	MO_500				11/04/07 20:37	1.0	3	
006	308_006	X	IB				11/05/07 04:16	1.0		
007	308_007	BLANK	QC413569	S	Soil	131280	11/05/07 04:44	1.0		
008	308_008	BLANK	QC413569		Soil	131280	11/05/07 05:13	1.0		
009	308_009	SAMPLE	198900-002	S	Soil	131280	11/05/07 05:41	1.0		
010	308_010	SAMPLE	198862-006	S	Soil	131280	11/05/07 06:10	1.0		
011	308_011	SAMPLE	198829-015	S	Soil	131280	11/05/07 06:38	1.0		
012	308_012	X	IB				11/05/07 07:07	1.0		
013	308_013	SAMPLE	198900-003	S	Soil	131280	11/05/07 07:35	1.0		
014	308_014	SAMPLE	198829-017	S	Soil	131280	11/05/07 08:03	1.0		
015	308_015	SAMPLE	198900-001	S	Soil	131280	11/05/07 08:32	1.0		
016	308_016	MSS	198903-001	S	Soil	131280	11/05/07 09:01	1.0		
017	308_017	X	IB				11/05/07 09:29	1.0		
018	308_018	SAMPLE	198900-004	S	Soil	131280	11/05/07 09:58	1.0		
019	308_019	X	CMARKER				11/05/07 10:26	1.0	1	
020	308_020	CCV	DSL_250				11/05/07 10:55	1.0	4	
021	308_021	CCV	MO_500				11/05/07 11:23	1.0	3	
022	308_022	SAMPLE	198864-001		Soil	131280	11/05/07 12:20	200.0		
023	308_023	SAMPLE	198843-002		Soil	131280	11/05/07 12:48	20.0		
024	308_024	X	IB				11/05/07 13:17	1.0		
025	308_025	MS	QC413571	S	Soil	131280	11/05/07 13:46	1.0		
026	308_026	MSD	QC413572	S	Soil	131280	11/05/07 14:14	1.0		
027	308_027	X	IB				11/05/07 14:43	1.0		
028	308_028	BLANK	QC413619	S	Water	131293	11/05/07 15:11	1.0		
029	308_029	SAMPLE	198908-008	S	Water	131293	11/05/07 15:40	1.0		
030	308_030	SAMPLE	198908-012	S	Water	131293	11/05/07 16:08	1.0		
031	308_031	X	IB				11/06/07 00:36	1.0		
032	308_032	CCV	DSL_1000				11/06/07 01:04	1.0	5	
033	308_033	CCV	MO_500				11/06/07 01:33	1.0	3	
034	308_034	CCV	HYFL_1250				11/06/07 02:56	1.0	6	
035	308_035	BS	QC413620	S	Water	131293	11/06/07 03:25	1.0		
036	308_036	BSD	QC413621	S	Water	131293	11/06/07 03:53	1.0		
037	308_037	BLANK	QC413619		Water	131293	11/06/07 04:22	1.0		
038	308_038	SAMPLE	198893-002		Water	131293	11/06/07 04:51	1.0		
039	308_039	SAMPLE	198859-001		Water	131293	11/06/07 05:19	1.0		
040	308_040	SAMPLE	198859-002		Water	131293	11/06/07 05:48	1.0		
041	308_041	SAMPLE	198859-003		Water	131293	11/06/07 06:16	1.0		
042	308_042	SAMPLE	198625-001	S	Soil	131086	11/06/07 06:45	50.0		2:BUNKC:12-40=7300
043	308_043	SAMPLE	198929-005		Soil	131296	11/06/07 07:13	20.0		
044	308_044	X	IB				11/06/07 07:42	1.0		
045	308_045	SAMPLE	198951-001		Soil	131287	11/06/07 08:11	1.0		
046	308_046	X	CMARKER				11/06/07 08:39	1.0	1	
047	308_047	CCV	DSL_500				11/06/07 09:08	1.0	2	
048	308_048	CCV	MO_500				11/06/07 09:36	1.0	3	
049	308_049	CCV	HYFL_1250				11/06/07 10:05	1.0	6	
050	308_050	SAMPLE	198881-012	S	Soil	131287	11/06/07 11:28	1.0		3:JP5:10-16=6900
051	308_051	SAMPLE	198881-015	S	Soil	131287	11/06/07 11:57	1.0		1:JETA:10-16=3700
052	308_052	SAMPLE	198881-016	S	Soil	131287	11/06/07 12:26	1.0		3:JP5:10-16=7500

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227444644

Instrument : GC14B
Method : EPA 8015B

Begun : 11/04/07 18:44
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	308_053	SAMPLE	198881-017	S	Soil	131287	11/06/07 12:54	1.0		
054	308_054	SAMPLE	198908-002	S	Soil	131287	11/06/07 13:24	1.0		3:JP5:10-16=5600
055	308_055	SAMPLE	198908-003	S	Soil	131287	11/06/07 13:53	1.0		4:JP5:10-16=10000
056	308_056	SAMPLE	198908-006	S	Soil	131287	11/06/07 14:21	1.0		3:JP5:10-16=5700
057	308_057	SAMPLE	198908-009	S	Soil	131287	11/06/07 14:50	1.0		
058	308_058	SAMPLE	198908-010	S	Soil	131287	11/06/07 15:19	1.0		
059	308_059	X	IB				11/06/07 15:47	1.0		
060	308_060	SAMPLE	198908-011	S	Soil	131287	11/06/07 16:16	1.0		
061	308_061	CCV	DSL_250				11/06/07 16:45	1.0	4	
062	308_062	CCV	MO_500				11/06/07 17:13	1.0	3	
063	308_063	LCS	QC413607		Soil	131287	11/06/07 18:11	1.0		
064	308_064	SAMPLE	198896-003	S	Water	131292	11/06/07 18:39	1.0		
065	308_065	SAMPLE	198896-004	S	Water	131292	11/06/07 19:08	1.0		
066	308_066	SAMPLE	198896-006	S	Water	131292	11/06/07 19:37	1.0		
067	308_067	SAMPLE	198896-007	S	Water	131292	11/06/07 20:05	1.0		
068	308_068	SAMPLE	198896-008	S	Water	131292	11/06/07 20:34	1.0		
069	308_069	SAMPLE	198814-003		Water	131332	11/06/07 21:03	1.0		
070	308_070	SAMPLE	198880-001	S	Soil	131317	11/06/07 21:31	1.0		1:JETA:10-16=3800
071	308_071	SAMPLE	198880-002	S	Soil	131317	11/06/07 22:00	1.0		
072	308_072	X	IB				11/06/07 22:28	1.0		
073	308_073	SAMPLE	198959-015		Soil	131317	11/06/07 22:57	1.0		
074	308_074	X	CMARKER				11/06/07 23:25	1.0	1	
075	308_075	CCV	DSL_1000				11/06/07 23:54	1.0	5	
076	308_076	CCV	MO_500				11/07/07 00:23	1.0	3	
077	308_077	X	CCV				11/07/07 00:52	1.0	5	
078	308_078	X	CCV				11/07/07 01:21	1.0	3	

Standards used: 1=S6952 2=S7541 3=S7310 4=S6807 5=S6809 6=S7279

REPORTING SUMMARY FOR 198880 GCSV Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
198880-001	GC14B	11/06/07 21:31	1.0	+	+	+	
198880-002	GC14B	11/06/07 22:00	1.0				
198880-002	GC15B	11/07/07 09:44	1.0				
198880-002	GC15B	11/07/07 11:36	1.0				
198880-002	GC11A	11/08/07 09:48	1.0	+	+	+	
QC413727	GC15B	11/06/07 22:48	1.0	+	+	+	
QC413727	GC15B	11/06/07 23:16	1.0				
QC413728	GC15B	11/06/07 20:47	1.0	+		+	
QC413729	GC15B	11/07/07 01:35	1.0	+		+	
QC413730	GC15B	11/07/07 02:02	1.0	+		+	
QC414179	GC17A	11/08/07 09:49	1.0	+	+	+	
QC414179	GC17A	11/08/07 12:35	1.0				
QC414180	GC17A	11/08/07 10:17	1.0	+		+	
QC414181	GC17A	11/08/07 11:40	1.0	+		+	
QC414182	GC17A	11/08/07 12:07	1.0	+		+	

SAMPLE PREPARATION SUMMARY

Batch # : 131317
Started By : KML
Method : SHAKER TABLE
Spike #1 ID : S7552
Prep Date : 05-NOV-2007
SOP Version : TEH1_rv9
Spike #2 ID : S7578
Analysis : TEH
Finished By : KML
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198880-001		Soil	50.14	5	1	0.09972		1			3630C	TEHM	
198880-002		Soil	50.08	5	1	0.09984		1			3630C	(rebatched)	
198957-010		Soil	50.05	5	1	0.0999		1				TEHM	
198957-011		Soil	50.04	5	1	0.09992		1				TEHM	
198957-012		Soil	50.09	5	1	0.09982		1				TEHM	
198959-001		Soil	50.25	5	1	0.0995		1				TEHM	mss
198959-002		Soil	50.2	5	1	0.0996		1				TEHM	
198959-003		Soil	50.06	5	1	0.09988		1				TEHM	
198959-004		Soil	50.22	5	1	0.09956		1				TEHM	
198959-005		Soil	50.35	5	1	0.0993		1				TEHM	
198959-006		Soil	50.24	5	1	0.09952		1				TEHM	
198959-007		Soil	50.28	5	1	0.09944		1				TEHM	
198959-008		Soil	50.33	5	1	0.09934		1				TEHM	
198959-009		Soil	50.29	5	1	0.09942		1				TEHM	
198959-010		Soil	50.37	5	1	0.09927		1				TEHM	
198959-011		Soil	50.47	5	1	0.09907		1				TEHM	
198959-012		Soil	50.09	5	1	0.09982		1				TEHM	
198959-013		Soil	50.19	5	1	0.09962		1				TEHM	
198959-014		Soil	50.29	5	1	0.09942		1				TEHM	
198959-015		Soil	50.33	5	1	0.09934		1				TEHM	
QC413727	BLANK	Soil	50.06	5	1	0.09988		1			3630C		
QC413728	LCS	Soil	50.11	5	1	0.09978		1	1		3630C		
QC413729	MS	Soil	50.31	5	1	0.09938		1	1				
QC413730	MSD	Soil	50.24	5	1	0.09952		1	1				

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 51

LIMS Batch No: 13817
LIMS Analysis TEHM
Date Extracted: 11/5/07

Extraction Method:
☒ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198957 - 010 A	50.05	5.0		
	-011	50.04			
	-012	50.09			
	198959 - 001 A	50.25			MSS
5	-002	50.20			
	-003	50.06			
	-004	50.22			
	-005	50.35			
	-006	50.24			
10	-007	50.28			
	-008	50.33			
	-009	50.29			
	-010	50.37			
	-011	50.47			
15	-012	50.09			
	-013	50.19			
	-014	50.29			
	-015	50.33			
	MB QC413727	50.06		X	
20	LCS 728	50.11		X	
	MS 729	50.31			
	MSD 730	50.24			
*	~~198880-001~~	50.14		X	~~ADDED AFTER Z-OUT~~ RFW 11/5/07
*	-002	50.08		X	KML 11/5/07

JM 11/6/07 RFW 11/5/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47158737	KML 11/5/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47073734	
1.0 mL of Surrogate solution was added to all samples	57552B	
1.0 mL of Matrix Spiking solution was added to all spikes	57578A	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all	CH_2Cl_2 EM47158	
	Acetone EM47156	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	1315 ~~0715~~ JM 11/6/07	
taken off shaker table at:	1515 ~~0740~~	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47073734	KML 11/6/07
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓ HOOD	

Samples 198880-001, -002 shaken from 2300 11/5/07 to 0045 11/6/07 and 0715 to 0745 11/6/07 RFW 11/7/07

11/5/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/6/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: KML
Cleanup Date: 11/6/07

Benchbook # **2611**
Page 5

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
198880-001	131317	1.0	1.0	
↓ -002	↓	↓	↓	
MB QC413727	↓	↓	↓	
LCS ↓ 8	↓	↓	↓	
				RFW 11/6/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ~ g columns	NA	KML 11/6/07
☑ Extracts were cleaned up using 1.0 g cartridges	SP9092	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	EM47178	
Concentrated to volumes as noted above	✓	

11/6/07
Extraction Chemist / Date

Continued from page —
Continued on page —

11/6/07
Reviewed by / Date

Project Soil Aliquot BIC2528

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
LCS	30.27	8081		EM47150737
MS	30.01	↓		198956-001A
MSD	30.38			↓
			KML 11/5/07	
198957-010 A	50.05	TEHM	131317	
-011	50.04			
-012	50.09			
198959-001 A	50.25			MS
-002	50.20			
-003	50.06			
-004	50.22			
-005	50.35			
-006	50.24			
-007	50.28			
-008	50.33			
-009	50.29			
-010	50.37			
-011	50.47			
-012	50.09			
-013	50.14			
-014	50.29			
-015	50.33			
MB	50.06			EM47150737
LCS	50.11			↓
MS	50.31			198959-001A
MSD	50.24	↓	↓	↓
			KML 11/5/07	

Continued on Page

Read and Understood By

Date

Sample ID	Weight (g)	Analysis	Batch #	Comments
198970-004	30.25	PCB		Comp 001A, 002A, 003A @ 20g each -005, 006, 007, 008, 009 all Liter A @ 15g each
-010	30.45			-011A, 012A, 013A @ 20g each -015, 016, 017, 018, 019 all Liter A @ 15g each
-014	30.12			-024, 025, 026, 027, 028 @ 15g each all Liter A
-020	30.07			-021, 022, 023, 029, 030, 031 all Liter A @ 25g each
-026	30.22			MS: 198970-032
-032	30.32			
MS	30.24			
MSD	30.10			
		KHL 11/5/07		
198880-001G	50.14	TEH/M	135317	
002A	50.08			
		RFW 11/5/07		

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE PREPARATION SUMMARY

Batch # : 131427
Started By : KML
Method : SHAKER TABLE
Spike #1 ID : S7552
Prep Date : 07-NOV-2007
SOP Version : TEH1_rv9
Spike #2 ID : S7578
Analysis : TEH
Finished By : JJB
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198880-002		Soil	50.46	5	1	0.09909		1			3630C	TEHM	
198908-011		Soil	50.43	5	1	0.09915		1			3630C	TEH	
199006-001		Soil	50.1	5	1	0.0998		1			3630C	TEH	
199008-001		Soil	50.2	5	1	0.0996		1				TEHM	
199008-002		Soil	50.35	5	1	0.0993		1				TEHM	
199008-003		Soil	50.29	5	1	0.09942		1				TEHM	
199008-004		Soil	50.04	5	1	0.09992		1				TEHM	
199008-005		Soil	50.15	5	1	0.0997		1				TEHM	
199008-006		Soil	50.2	5	1	0.0996		1				TEHM	
199008-007		Soil	50.33	5	1	0.09934		1				TEHM	
199008-008		Soil	50.01	5	1	0.09998		1				TEHM	
199008-009		Soil	50.26	5	1	0.09948		1				TEHM	
199008-010		Soil	50.13	5	1	0.09974		1				TEHM	
199008-011		Soil	50.01	5	1	0.09998		1				TEHM	
199008-012		Soil	50.13	5	1	0.09974		1				TEHM	
199008-013		Soil	50.38	5	1	0.09925		1				TEHM	
199008-014		Soil	50.06	5	1	0.09988		1				TEHM	
199008-015		Soil	50.05	5	1	0.0999		1				TEHM	
199008-017		Soil	50.09	5	1	0.09982		1				TEHM	
199008-018		Soil	50.23	5	1	0.09954		1				TEHM	mss
QC414179	BLANK	Soil	50.02	5	1	0.09996		1			3630C		
QC414180	LCS	Soil	50.49	5	1	0.09903		1	1		3630C		
QC414181	MS	Soil	50.41	5	1	0.09919		1	1				
QC414182	MSD	Soil	50.49	5	1	0.09903		1	1				

Analyst: JDG Date: 11/09/07 Reviewer: LH Date: 11/09/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 54

LIMS Batch No: 131427
LIMS Analysis TEH1M
Date Extracted: 11/7/07

Extraction Method:
☒ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198880-002 A	50.46	5.0	X	re-extract
	198908-011 A	50.43		↓	re-extract
	199006-001 A	50.10		↓	
	199008-001 A	50.20			
5	-002	50.35			
	-003	50.29			
	-004	50.04			
	-005	50.15			
	-006	50.20			
10	-007	50.33			
	-008	50.01			
	-009	50.26			
	-010	50.13			
	-011	50.01			
15	-012	50.13			
	-013	50.38			
	-014	50.06			
	-015	50.05			
	-017	50.09			
20	-018	50.23			MSS
	MB QC414179	50.02		X	
	LCS 180	50.49		↓	
	MS 181	50.41			
	MSD 182	50.49			
					JSB 11/7/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47150737	KML 11/7/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47073734	↓
1.0 mL of Surrogate solution was added to all samples	57552B	↓
1.0 mL of Matrix Spiking solution was added to all spikes	57578B	↓
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM47158	↓
Acetone	EM47156	↓
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	1600	↓
taken off shaker table at:	1960	JSB 11/7/07
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47073734	↓
Concentrated to volumes as noted above	✓	↓
Relinquished to TEH Department	✓	↓

MW 11/7/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/7/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: SJB
Cleanup Date: 11/7/07

Benchbook # **2611**
Page 9

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
198880-002	131427	1.0	1.0	
198908-011	↓	↓	↓	
199006-001				
MB QC414179				
LCS ✓ 80				
				RFW 11/7/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ___ g columns	NA	SJB 11/7/07
☒ Extracts were cleaned up using 1.0 g cartridges	SP9092	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	BM47178	
Concentrated to volumes as noted above	✓	

Extraction Chemist / Date

Continued from page ___
Continued on page 1

11/7/07
Reviewed by / Date

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH#	COMMENTS
199008-001 A	50.20	TEHM	1B1427	
-002	50.35			
-003	50.29			
-004	50.04			
-005	50.15			
-006	50.20			
-007	50.33			
-008	50.01			
-009	50.26			
-010	50.13			
-011	50.01			
-012	50.13			
-013	50.38			
-014	50.06			
-015	50.05			
-017	50.09			
-018	50.23			MSS EM47158787 → 199008-018A
MB	50.02			
LCS	50.49			
MS	50.41			
MSD	50.49			

RML 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

124 Project SOIL ALIQUOT BK 2588

Continued from Page —

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
198986-040A	30.29	8081		MSS
MB	30.01	↓		EM47158737
LCS	30.35			↓
MS	30.20			198986-040A
MSD	30.01	↓		↓
				SFH 11/7/07
199006-001A	50.10	TEH	TB1927	
				EEB 11/7/07
199006-001A	30.25	1,4 DIOXANE		
				EEB 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL ALIQUOT

BK 2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199025-001 A	50.16	TEHM		
-002	50.21			
-003	50.11			
-004	50.32			
-005	50.01			
-006	50.11			
-007	50.20			
-008	50.07			
-009	50.16			
-010	50.12			
-011	50.23			
-012	50.08			
-013	50.09			
-014	50.05			
-015	50.07			
-016	50.12			
-017	50.08			
-018	50.16			
-019	50.11			
-020	50.06			
MB				
LCS				
MS				
MSD				
				ECB 11/7
198880-002 A	50.46	TEHM	131427	
198908-011 A	50.43	TEH		
				XML 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd

Volatile Organics
Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	TB103107	Batch#:	131331
Lab ID:	198880-003	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.07
Chloromethane	ND	1.0	0.09
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.8 J	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.1
Acetone	1.1 J	10	0.3
Freon 113	ND	2.0	0.07
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	0.2 J	10	0.1
Carbon Disulfide	ND	0.5	0.08
MTBE	ND	0.5	0.04
trans-1,2-Dichloroethene	ND	0.5	0.09
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.07
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.06
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	0.05 J	0.5	0.03
Trichloroethene	ND	0.5	0.06
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.07
4-Methyl-2-Pentanone	ND	10	0.06
cis-1,3-Dichloropropene	ND	0.5	0.08
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.07
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.07
1,3-Dichloropropane	ND	0.5	0.05
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.09
Chlorobenzene	ND	0.5	0.06
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.06
m,p-Xylenes	ND	0.5	0.2
o-Xylene	ND	0.5	0.06
Styrene	ND	0.5	0.06
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.07
1,1,2,2-Tetrachloroethane	ND	0.5	0.05
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.06
Bromobenzene	ND	0.5	0.04
1,3,5-Trimethylbenzene	ND	0.5	0.08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	TB103107	Batch#:	131331
Lab ID:	198880-003	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.09
4-Chlorotoluene	ND	0.5	0.09
tert-Butylbenzene	ND	0.5	0.06
1,2,4-Trimethylbenzene	ND	0.5	0.08
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.09
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	2.0	0.8
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	106	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	105	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX357RB358	Batch#:	131331
Lab ID:	198880-004	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.07
Chloromethane	ND	1.0	0.09
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.1
Acetone	1.3 J	10	0.3
Freon 113	ND	2.0	0.07
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	0.5 J	10	0.1
Carbon Disulfide	ND	0.5	0.08
MTBE	ND	0.5	0.04
trans-1,2-Dichloroethene	ND	0.5	0.09
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.07
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.06
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	0.04 J	0.5	0.03
Trichloroethene	ND	0.5	0.06
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.07
4-Methyl-2-Pentanone	ND	10	0.06
cis-1,3-Dichloropropene	ND	0.5	0.08
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.07
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.07
1,3-Dichloropropane	ND	0.5	0.05
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.09
Chlorobenzene	ND	0.5	0.06
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.06
m,p-Xylenes	ND	0.5	0.2
o-Xylene	ND	0.5	0.06
Styrene	ND	0.5	0.06
Bromoform	ND	1.0	0.1
Isopropylbenzene	0.1 J	0.5	0.07
1,1,2,2-Tetrachloroethane	ND	0.5	0.05
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	0.2 J	0.5	0.06
Bromobenzene	ND	0.5	0.04
1,3,5-Trimethylbenzene	ND	0.5	0.08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

12.1

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX357RB358	Batch#:	131331
Lab ID:	198880-004	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.09
4-Chlorotoluene	ND	0.5	0.09
tert-Butylbenzene	ND	0.5	0.06
1,2,4-Trimethylbenzene	ND	0.5	0.08
sec-Butylbenzene	0.2 J	0.5	0.1
para-Isopropyl Toluene	0.2 J	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	0.3 J	0.5	0.09
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	2.0	0.8
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	108	74-137
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

12.1

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413783	Batch#:	131331
Matrix:	Water	Analyzed:	11/05/07
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.07
Chloromethane	ND	1.0	0.09
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.8 J	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.1
Acetone	0.6 J	10	0.3
Freon 113	ND	2.0	0.07
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	0.2 J	10	0.1
Carbon Disulfide	ND	0.5	0.08
MTBE	ND	0.5	0.04
trans-1,2-Dichloroethene	ND	0.5	0.09
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.07
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.06
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	0.04 J	0.5	0.03
Trichloroethene	ND	0.5	0.06
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.07
4-Methyl-2-Pentanone	ND	10	0.06
cis-1,3-Dichloropropene	ND	0.5	0.08
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.07
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.07
1,3-Dichloropropane	ND	0.5	0.05
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.09
Chlorobenzene	ND	0.5	0.06
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.06
m,p-Xylenes	ND	0.5	0.2
o-Xylene	ND	0.5	0.06
Styrene	ND	0.5	0.06
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.07
1,1,2,2-Tetrachloroethane	ND	0.5	0.05
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.06
Bromobenzene	ND	0.5	0.04
1,3,5-Trimethylbenzene	ND	0.5	0.08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413783	Batch#:	131331
Matrix:	Water	Analyzed:	11/05/07
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.09
4-Chlorotoluene	ND	0.5	0.09
tert-Butylbenzene	ND	0.5	0.06
1,2,4-Trimethylbenzene	ND	0.5	0.08
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.09
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	0.2 J	0.5	0.2
Hexachlorobutadiene	ND	2.0	0.8
Naphthalene	0.1 J	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	104	74-137
Toluene-d8	99	80-120
Bromofluorobenzene	105	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	131331
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413784

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.53	100	80-133
Benzene	12.50	12.34	99	80-120
Trichloroethene	12.50	12.15	97	80-120
Toluene	12.50	12.05	96	80-122
Chlorobenzene	12.50	11.95	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	102	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC413785

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.98	96	80-133	4	20
Benzene	12.50	11.54	92	80-120	7	20
Trichloroethene	12.50	11.65	93	80-120	4	20
Toluene	12.50	11.73	94	80-122	3	20
Chlorobenzene	12.50	11.74	94	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	100	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-120

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 198880 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 477441349003 File : hk203 Time : 02-NOV-2007 12:39

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	16721	20.34	
75	30% - 60% of mass 95	38936	47.36	
95		82208		
96	5% - 9% of mass 95	5095	6.20	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	43306	52.68	
175	5% - 9% of mass 174	3303	7.63	
176	> 95% and < 101% of mass 174	42552	98.26	
177	5% - 9% of mass 176	2391	5.62	

Analyst: TEW Date: 11/05/07 Reviewer: LW Date: 11/06/07

CURTIS & TOMPKINS BFB TUNE FOR 198880 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 477445722003 File : hk503 Time : 05-NOV-2007 13:46

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	17632	19.55	
75	30% - 60% of mass 95	39765	44.09	
95		90184		
96	5% - 9% of mass 95	5746	6.37	
173	< 2% of mass 174	104	0.20	
174	> 50% and < 100% of mass 95	50861	56.40	
175	5% - 9% of mass 174	3717	7.31	
176	> 95% and < 101% of mass 174	49498	97.32	
177	5% - 9% of mass 176	3427	6.92	

Analyst: TEW Date: 11/05/07 Reviewer: LW Date: 11/06/07

477445722003

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 MSVOA Water: EPA 8260B

Inst : MSVOA08
Calnum : 477441349003
Units : ug/L

Name : 826GOX8
Date : 02-NOV-2007 14:36
X Axis : R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hk206	477441349006	0.25/0.5PPB	02-NOV-2007 14:36	S7425 (200000X), S7424 (100000X), S7235 (200000X), S7365 (5000X)
L2	hk207	477441349007	0.5/1PPB	02-NOV-2007 15:14	S7425 (100000X), S7424 (50000X), S7235 (100000X), S7365 (5000X)
L3	hk208	477441349008	2PPB	02-NOV-2007 15:52	S7425 (25000X), S7424 (25000X), S7235 (50000X), S7365 (5000X)
L4	hk209	477441349009	5PPB	02-NOV-2007 16:30	S7425 (10000X), S7424 (10000X), S7235 (20000X), S7365 (5000X)
L5	hk210	477441349010	10PPB	02-NOV-2007 17:08	S7425 (5000X), S7424 (5000X), S7235 (10000X), S7365 (5000X)
L6	hk211	477441349011	20PPB	02-NOV-2007 17:46	S7417 (25000X), S7531 (25000X), S6351 (50000X), S7365 (5000X)
L7	hk212	477441349012	50PPB	02-NOV-2007 18:25	S7417 (10000X), S7531 (10000X), S6351 (20000X), S7365 (5000X)
L8	hk213	477441349013	75PPB	02-NOV-2007 19:03	S7417 (6667X), S7531 (6667X), S6351 (13330X), S7365 (5000X)
L9	hk214	477441349014	100PPB	02-NOV-2007 19:41	S7417 (5000X), S7531 (5000X), S6351 (10000X), S7365 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.1652m	0.1669m	0.1909m	0.1906m	0.3406m	0.3500m	0.3415m	0.3200m	LINR	1.19100	2.97201		0.2582	0.996	15	0.05	0.99	
Chloromethane		0.6250m	0.7316m	0.5475m	0.5452m	0.5629m	0.5411m	0.5105m	0.4953m	AVRG		1.75476		0.5699	13	15	0.10	0.99	
Vinyl Chloride	0.4171m	0.4511m	0.5417m	0.4842m	0.4685m	0.5122m	0.5157m	0.4881m	0.4605m	AVRG		2.07422		0.4821	8	15	0.05	0.99	
Bromomethane		0.1617m	0.1612m	0.1513m	0.1503m	0.1389m	0.1965m	0.2049m	0.1951m	AVRG		5.88224		0.1700	15	15	0.05	0.99	
Chloroethane		0.2969m	0.3674m	0.3090m	0.2950m	0.2896m	0.2845m	0.2730m	0.2565m	AVRG		3.37281		0.2965	11	15	0.05	0.99	
Trichlorofluoromethane		0.4542	0.4716	0.4903	0.4651	0.4909	0.5002	0.4823	0.4434	AVRG		2.10639		0.4747	4	15	0.05	0.99	
Acetone					0.2808	0.2447	0.2016	0.2314	0.2148	AVRG		4.26130		0.2347	13	15	0.05	0.99	
Freon 113		0.3571	0.3617	0.4258	0.4292	0.4035	0.4056	0.3980	0.3882	AVRG		2.52436		0.3961	7	15	0.05	0.99	
1,1-Dichloroethene		0.3795	0.3662	0.3628	0.3517	0.3371	0.3399	0.3347	0.3216	AVRG		2.86376		0.3492	6	15	0.05	0.99	
Methylene Chloride				0.5392m	0.5211m	0.4807m	0.4711m	0.4526m	0.4323m	AVRG		2.07111		0.4828	8	15	0.05	0.99	
Carbon Disulfide		1.6096	1.6735	1.6615	1.6342	1.5410	1.5402	1.4558	1.4099	AVRG		0.63869		1.5657	6	15	0.05	0.99	
MTBE		1.4514	1.4558	1.4667	1.4120	1.3615	1.3456	1.2985	1.2047	AVRG		0.72752		1.3745	7	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4176	0.4453	0.4440	0.4255	0.3955	0.4052	0.3986	0.3795	AVRG		2.41607		0.4139	6	15	0.05	0.99	
Vinyl Acetate		1.0569	1.1496	1.1562	1.0602	1.4142	1.4848	1.2456	1.2176	AVRG		0.81757		1.2231	13	15	0.05	0.99	
1,1-Dichloroethane		0.9381	1.0850	0.9799	0.9355	0.8841	0.8746	0.8258	0.7798	AVRG		1.09546		0.9129	10	15	0.10	0.99	
2-Butanone		0.3795	0.4170	0.4031	0.3860	0.3544	0.3284	0.3300	0.2971	AVRG		2.76290		0.3619	11	15	0.05	0.99	
2,2-Dichloropropane		0.6206	0.6257	0.5955	0.5627	0.5263	0.5207	0.4888	0.4575	AVRG		1.81911		0.5497	11	15	0.05	0.99	
cis-1,2-Dichloroethene		0.4710	0.5243	0.4575	0.4513	0.4251	0.4359	0.4258	0.4116	AVRG		2.22071		0.4503	8	15	0.05	0.99	
Chloroform		0.7542	0.8556	0.7823	0.7593	0.7025	0.7116	0.6877	0.6529	AVRG		1.35453		0.7383	9	15	0.05	0.99	
Bromochloromethane		0.1638	0.1992	0.1912	0.1992	0.1915	0.1914	0.1978	0.1903	AVRG		5.24846		0.1905	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.4691	0.5378	0.5301	0.5322	0.4733	0.4846	0.4760	0.4540	AVRG		2.02176		0.4946	7	15	0.05	0.99	
1,1-Dichloropropene		0.3088	0.3262	0.3224	0.3166	0.2909	0.2992	0.2865	0.2794	AVRG		3.29200		0.3038	6	15	0.05	0.99	
Carbon Tetrachloride		0.1910	0.1752	0.1815	0.1802	0.1698	0.1799	0.1749	0.1749	AVRG		5.60358		0.1785	4	15	0.05	0.99	
1,2-Dichloroethane		0.3275	0.3325	0.3186	0.3081	0.2896	0.2924	0.2794	0.2688	AVRG		3.31005		0.3021	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.9396	1.0175	0.9192	0.9269	0.8427	0.8369	0.7922	0.7485	AVRG		1.13904		0.8779	10	15	0.05	0.99	
Trichloroethene		0.2042	0.2245	0.2101	0.2068	0.1944	0.1968	0.1963	0.1945	AVRG		4.91521		0.2034	5	15	0.05	0.99	
1,2-Dichloropropane		0.2867	0.3112	0.2716	0.2774	0.2635	0.2600	0.2510	0.2468	AVRG		3.68953		0.2710	8	15	0.05	0.99	
Bromodichloromethane		0.2746	0.2868	0.2864	0.2724	0.2653	0.2699	0.2688	0.2581	AVRG		3.66573		0.2728	4	15	0.05	0.99	
Dibromomethane		0.1303	0.1585	0.1517	0.1494	0.1401	0.1493	0.1475	0.1450	AVRG		6.82702		0.1465	6	15	0.05	0.99	
4-Methyl-2-Pentanone		0.3607	0.3605	0.3484	0.3472	0.3462	0.3407	0.3279	0.3123	AVRG		2.91553		0.3430	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.3513	0.3970	0.3835	0.3865	0.3493	0.3548	0.3490	0.3394	AVRG		2.74846		0.3638	6	15	0.05	0.99	
Toluene		0.4892	0.5411	0.5005	0.5039	0.4591	0.4765	0.4672	0.4515	AVRG		2.05708		0.4861	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.3243	0.3476	0.3379	0.3315	0.3121	0.3175	0.3144	0.3041	AVRG		3.08936		0.3237	4	15	0.05	0.99	
1,1,2-Trichloroethane		0.1071	0.1162	0.1145	0.1150	0.1083	0.1118	0.1097	0.1086	AVRG		8.97772		0.1114	3	15	0.05	0.99	
2-Hexanone		0.3096	0.3201	0.3293	0.3076	0.3082	0.2975	0.2808	0.2713	AVRG		3.29978		0.3031	6	15	0.05	0.99	
1,3-Dichloropropane		0.4382	0.5059	0.4775	0.4687	0.4574	0.4592	0.4359	0.4323	AVRG		2.17681		0.4594	5	15	0.05	0.99	
Tetrachloroethene		0.1594	0.1842	0.1785	0.1742	0.1648	0.1725	0.1760	0.1813	AVRG		5.75144		0.1739	5	15	0.05	0.99	
Dibromochloromethane		0.1884	0.2177	0.2125	0.2064	0.2059	0.2209	0.2190	0.2201	AVRG		4.73170		0.2113	5	15	0.05	0.99	
1,2-Dibromoethane		0.1895	0.1911	0.1972	0.1953	0.1890	0.1969	0.1967	0.1936	AVRG		5.16373		0.1937	2	15	0.05	0.99	
Chlorobenzene		0.5631	0.6748	0.5870	0.5818	0.5542	0.5670	0.5520	0.5449	AVRG		1.72980		0.5781	7	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.1713	0.1932	0.1744	0.1764	0.1707	0.1833	0.1800	0.1815	AVRG		5.59115		0.1789	4	15	0.05	0.99	
Ethylbenzene		1.1137	1.3075	1.1786	1.1547	1.0921	1.0755	1.0142	0.9628	AVRG		0.89897		1.1124	9	15	0.05	0.99	
m,p-Xylenes	0.3546	0.3717	0.4281	0.3932	0.3945	0.3781	0.3911	0.3723	0.3492	AVRG		2.62179		0.3814	6	15	0.05	0.99	
o-Xylene		0.3702	0.4229	0.3750	0.3742	0.3674	0.3784	0.3675	0.3609	AVRG		2.65212		0.3771	5	15	0.05	0.99	
Styrene		0.5971	0.7202	0.6724	0.6660	0.6442	0.6666	0.6404	0.6125	AVRG		1.53274		0.6524	6	15	0.05	0.99	
Bromoform		0.0889	0.1159	0.1199	0.1227	0.1256	0.1360	0.1373	0.1393	AVRG		8.11717		0.1232	13	15	0.10	0.99	
Isopropylbenzene		2.0753	2.4125	2.2249	2.2247	2.0404	2.0578	1.9222	1.8958	AVRG		0.47468		2.1067	8	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.8400	0.8700	0.8513	0.8297	0.8154	0.8169	0.7406	0.7534	AVRG		1.22746		0.8147	6	15	0.30	0.99	
1,2,3-Trichloropropane		0.1688	0.1874	0.1907	0.1704	0.1750	0.1801	0.1764	0.1789	AVRG		5.60345		0.1785	4	15	0.05	0.99	
Propylbenzene		3.1768	3.4710	3.1882	3.1768	2.9323	2.7977	2.5403	2.3755	AVRG		0.33814		2.9573	12	15	0.05	0.99	
Bromobenzene		0.4396	0.4989	0.4509	0.4545	0.4542	0.4710	0.4594	0.4710	AVRG		2.16236		0.4625	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		1.7565	1.9943	1.8427	1.8437	1.6975	1.6932	1.6015	1.5190	AVRG		0.57354		1.7436	9	15	0.05	0.99	
2-Chlorotoluene		2.0268	2.2645	2.0221	1.9864	1.8242	1.7918	1.6606	1.5656	AVRG		0.52834		1.8927	12	15	0.05	0.99	
4-Chlorotoluene		1.8905	2.0373	1.8182	1.8295	1.6867	1.6650	1.5883	1.5532	AVRG		0.56864		1.7586	9	15	0.05	0.99	
tert-Butylbenzene		1.3417	1.5468	1.4072	1.4028	1.3323	1.3519	1.3052	1.2927	AVRG		0.72856		1.3726	6	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.7632	2.0140	1.8421	1.8509	1.7135	1.7017	1.6232	1.5868	AVRG		0.56757		1.7619	8	15	0.05	0.99	
sec-Butylbenzene		2.4533	2.5652	2.5076	2.5119	2.3540	2.3001	2.1876	2.1016	AVRG		0.42147		2.3727	7	15	0.05	0.99	
para-Isopropyl Toluene		1.6898	1.8522	1.7440	1.7530	1.6322	1.6316	1.5779	1.5661	AVRG		0.59493		1.6809	6	15	0.05	0.99	
1,3-Dichlorobenzene		0.9377	0.9533	0.8666	0.8724	0.8311	0.8378	0.8353	0.8416	AVRG		1.14681		0.8720	5	15	0.05	0.99	
1,4-Dichlorobenzene		0.9355	0.9986	0.9201	0.9261	0.8597	0.8878	0.8658	0.8643	AVRG		1.10224		0.9072	5	15	0.05	0.99	
n-Butylbenzene		1.9866	2.1934	2.0440	2.0345	1.8508	1.8187	1.7457	1.6776	AVRG		0.52113		1.9189	9	15	0.05	0.99	
1,2-Dichlorobenzene		0.8644	0.9119	0.8537	0.8437	0.7906	0.8091	0.7929	0.8016	AVRG		1.19976		0.8335	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1535	0.1463	0.1371	0.1305	0.1311	0.1325	0.1251	0.1260	AVRG		7.39308		0.1353	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.4767	0.4732	0.4388	0.4311	0.4109	0.4191	0.4290	0.4372	AVRG		2.27528		0.4395	5	15	0.05	0.99	
Hexachlorobutadiene		0.1041	0.1132	0.1304	0.1288	0.1219	0.1264	0.1302	0.1344	AVRG		8.08659		0.1237	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.3263	1.3781	1.3580	1.3442	1.3393	1.3559	1.3283	1.3316	AVRG		0.74338		1.3452	1	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.4043	0.4088	0.3913	0.4038	0.3943	0.4059	0.4150	0.4326	AVRG		2.45701		0.4070	3	15	0.05	0.99	
Dibromofluoromethane							0.7375			AVRG		1.35587		0.7375	0	15	0.05	0.99	
1,2-Dichloroethane-d4							0.4211			AVRG		2.37480		0.4211	0	15	0.05	0.99	
Toluene-d8							1.0754			AVRG		0.92986		1.0754	0	15	0.05	0.99	
Bromofluorobenzene							1.2863			AVRG		0.77745		1.2863	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	68	2.000	9	5.000	-19	10.00	-31	20.00	7	50.00	6	75.00	3	100.0	-4
Chloromethane			1.000	10	2.000	28	5.000	-4	10.00	-4	20.00	-1	50.00	-5	75.00	-10	100.0	-13
Vinyl Chloride	0.500	-13	1.000	-6	2.000	12	5.000	0	10.00	-3	20.00	6	50.00	7	75.00	1	100.0	-4
Bromomethane			1.000	-5	2.000	-5	5.000	-11	10.00	-12	20.00	-18	50.00	16	75.00	21	100.0	15
Chloroethane			1.000	0	2.000	24	5.000	4	10.00	0	20.00	-2	50.00	-4	75.00	-8	100.0	-13
Trichlorofluoromethane			1.000	-4	2.000	-1	5.000	3	10.00	-2	20.00	3	50.00	5	75.00	2	100.0	-7
Acetone									10.00	20	20.00	4	50.00	-14	75.00	-1	100.0	-8
Freon 113			0.500	-10	2.000	-9	5.000	7	10.00	8	20.00	2	50.00	2	75.00	0	100.0	-2
1,1-Dichloroethene			0.500	9	2.000	5	5.000	4	10.00	1	20.00	-3	50.00	-3	75.00	-4	100.0	-8
Methylene Chloride							5.000	12	10.00	8	20.00	0	50.00	-2	75.00	-6	100.0	-10
Carbon Disulfide			0.500	3	2.000	7	5.000	6	10.00	4	20.00	-2	50.00	-2	75.00	-7	100.0	-10
MTBE			0.500	6	2.000	6	5.000	7	10.00	3	20.00	-1	50.00	-2	75.00	-6	100.0	-12
trans-1,2-Dichloroethene			0.500	1	2.000	8	5.000	7	10.00	3	20.00	-4	50.00	-2	75.00	-4	100.0	-8
Vinyl Acetate			0.500	-14	2.000	-6	5.000	-5	10.00	-13	20.00	16	50.00	21	75.00	2	100.0	0
1,1-Dichloroethane			0.500	3	2.000	19	5.000	7	10.00	2	20.00	-3	50.00	-4	75.00	-10	100.0	-15
2-Butanone			0.500	5	2.000	15	5.000	11	10.00	7	20.00	-2	50.00	-9	75.00	-9	100.0	-18
2,2-Dichloropropane			0.500	13	2.000	14	5.000	8	10.00	2	20.00	-4	50.00	-5	75.00	-11	100.0	-17
cis-1,2-Dichloroethene			0.500	5	2.000	16	5.000	2	10.00	0	20.00	-6	50.00	-3	75.00	-5	100.0	-9
Chloroform			0.500	2	2.000	16	5.000	6	10.00	3	20.00	-5	50.00	-4	75.00	-7	100.0	-12
Bromochloromethane			0.500	-14	2.000	5	5.000	0	10.00	5	20.00	1	50.00	0	75.00	4	100.0	0
1,1,1-Trichloroethane			0.500	-5	2.000	9	5.000	7	10.00	8	20.00	-4	50.00	-2	75.00	-4	100.0	-8
1,1-Dichloropropene			0.500	2	2.000	7	5.000	6	10.00	4	20.00	-4	50.00	-2	75.00	-6	100.0	-8
Carbon Tetrachloride			0.500	7	2.000	-2	5.000	2	10.00	1	20.00	-5	50.00	1	75.00	-2	100.0	-2
1,2-Dichloroethane			0.500	8	2.000	10	5.000	5	10.00	2	20.00	-4	50.00	-3	75.00	-8	100.0	-11
Benzene			0.500	7	2.000	16	5.000	5	10.00	6	20.00	-4	50.00	-5	75.00	-10	100.0	-15
Trichloroethene			0.500	0	2.000	10	5.000	3	10.00	2	20.00	-4	50.00	-3	75.00	-4	100.0	-4
1,2-Dichloropropane			0.500	6	2.000	15	5.000	0	10.00	2	20.00	-3	50.00	-4	75.00	-7	100.0	-9
Bromodichloromethane			0.500	1	2.000	5	5.000	5	10.00	0	20.00	-3	50.00	-1	75.00	-1	100.0	-5
Dibromomethane			0.500	-11	2.000	8	5.000	4	10.00	2	20.00	-4	50.00	2	75.00	1	100.0	-1
4-Methyl-2-Pentanone			0.500	5	2.000	5	5.000	2	10.00	1	20.00	1	50.00	-1	75.00	-4	100.0	-9
cis-1,3-Dichloropropene			0.500	-3	2.000	9	5.000	5	10.00	6	20.00	-4	50.00	-2	75.00	-4	100.0	-7
Toluene			0.500	1	2.000	11	5.000	3	10.00	4	20.00	-6	50.00	-2	75.00	-4	100.0	-7
trans-1,3-Dichloropropene			0.500	0	2.000	7	5.000	4	10.00	2	20.00	-4	50.00	-2	75.00	-3	100.0	-6
1,1,2-Trichloroethane			0.500	-4	2.000	4	5.000	3	10.00	3	20.00	-3	50.00	0	75.00	-2	100.0	-3
2-Hexanone			0.500	2	2.000	6	5.000	9	10.00	2	20.00	2	50.00	-2	75.00	-7	100.0	-10
1,3-Dichloropropane			0.500	-5	2.000	10	5.000	4	10.00	2	20.00	0	50.00	0	75.00	-5	100.0	-6
Tetrachloroethene			0.500	-8	2.000	6	5.000	3	10.00	0	20.00	-5	50.00	-1	75.00	1	100.0	4
Dibromochloromethane			0.500	-11	2.000	3	5.000	1	10.00	-2	20.00	-3	50.00	5	75.00	4	100.0	4
1,2-Dibromoethane			0.500	-2	2.000	-1	5.000	2	10.00	1	20.00	-2	50.00	2	75.00	2	100.0	0
Chlorobenzene			0.500	-3	2.000	17	5.000	2	10.00	1	20.00	-4	50.00	-2	75.00	-5	100.0	-6
1,1,1,2-Tetrachloroethane			0.500	-4	2.000	8	5.000	-3	10.00	-1	20.00	-5	50.00	3	75.00	1	100.0	1
Ethylbenzene			0.500	0	2.000	18	5.000	6	10.00	4	20.00	-2	50.00	-3	75.00	-9	100.0	-13

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-7	1.000	-3	4.000	12	10.00	3	20.00	3	40.00	-1	100.0	3	150.0	-2	200.0	-8
o-Xylene			0.500	-2	2.000	12	5.000	-1	10.00	-1	20.00	-3	50.00	0	75.00	-3	100.0	-4
Styrene			0.500	-8	2.000	10	5.000	3	10.00	2	20.00	-1	50.00	2	75.00	-2	100.0	-6
Bromoform			0.500	-28	2.000	-6	5.000	-3	10.00	0	20.00	2	50.00	10	75.00	11	100.0	13
Isopropylbenzene			0.500	-1	2.000	15	5.000	6	10.00	6	20.00	-3	50.00	-2	75.00	-9	100.0	-10
1,1,2,2-Tetrachloroethane			0.500	3	2.000	7	5.000	4	10.00	2	20.00	0	50.00	0	75.00	-9	100.0	-8
1,2,3-Trichloropropane			0.500	-5	2.000	5	5.000	7	10.00	-5	20.00	-2	50.00	1	75.00	-1	100.0	0
Propylbenzene			0.500	7	2.000	17	5.000	8	10.00	7	20.00	-1	50.00	-5	75.00	-14	100.0	-20
Bromobenzene			0.500	-5	2.000	8	5.000	-3	10.00	-2	20.00	-2	50.00	2	75.00	-1	100.0	2
1,3,5-Trimethylbenzene			0.500	1	2.000	14	5.000	6	10.00	6	20.00	-3	50.00	-3	75.00	-8	100.0	-13
2-Chlorotoluene			0.500	7	2.000	20	5.000	7	10.00	5	20.00	-4	50.00	-5	75.00	-12	100.0	-17
4-Chlorotoluene			0.500	7	2.000	16	5.000	3	10.00	4	20.00	-4	50.00	-5	75.00	-10	100.0	-12
tert-Butylbenzene			0.500	-2	2.000	13	5.000	3	10.00	2	20.00	-3	50.00	-2	75.00	-5	100.0	-6
1,2,4-Trimethylbenzene			0.500	0	2.000	14	5.000	5	10.00	5	20.00	-3	50.00	-3	75.00	-8	100.0	-10
sec-Butylbenzene			0.500	3	2.000	8	5.000	6	10.00	6	20.00	-1	50.00	-3	75.00	-8	100.0	-11
para-Isopropyl Toluene			0.500	1	2.000	10	5.000	4	10.00	4	20.00	-3	50.00	-3	75.00	-6	100.0	-7
1,3-Dichlorobenzene			0.500	8	2.000	9	5.000	-1	10.00	0	20.00	-5	50.00	-4	75.00	-4	100.0	-3
1,4-Dichlorobenzene			0.500	3	2.000	10	5.000	1	10.00	2	20.00	-5	50.00	-2	75.00	-5	100.0	-5
n-Butylbenzene			0.500	4	2.000	14	5.000	7	10.00	6	20.00	-4	50.00	-5	75.00	-9	100.0	-13
1,2-Dichlorobenzene			0.500	4	2.000	9	5.000	2	10.00	1	20.00	-5	50.00	-3	75.00	-5	100.0	-4
1,2-Dibromo-3-Chloropropane			0.500	13	2.000	8	5.000	1	10.00	-4	20.00	-3	50.00	-2	75.00	-8	100.0	-7
1,2,4-Trichlorobenzene			0.500	8	2.000	8	5.000	0	10.00	-2	20.00	-7	50.00	-5	75.00	-2	100.0	-1
Hexachlorobutadiene			0.500	-16	2.000	-8	5.000	5	10.00	4	20.00	-1	50.00	2	75.00	5	100.0	9
Naphthalene			0.500	-1	2.000	2	5.000	1	10.00	0	20.00	0	50.00	1	75.00	-1	100.0	-1
1,2,3-Trichlorobenzene			0.500	-1	2.000	0	5.000	-4	10.00	-1	20.00	-3	50.00	0	75.00	2	100.0	6
Dibromofluoromethane													50.00	0				
1,2-Dichloroethane-d4													50.00	0				
Toluene-d8													50.00	0				
Bromofluorobenzene													50.00	0				

Analyst: TEW Date: 11/05/07 Reviewer: LW Date: 11/06/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 MSVOA Water
EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 477441349003 Cal Date : 02-NOV-2007 Type : WATER

ICV 477441349016 (hk216 02-NOV-2007) stds: S7415 (10000X), S7365 (5000X)
ICV 477441349017 (hk217 02-NOV-2007) stds: S7480 (10000X), S7498 (10000X), S7365 (5000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	477441349016	0.2582	0.3844	25.00	29.75	ug/L	19	20	m
Chloromethane	477441349016	0.5699	0.5248	25.00	23.02	ug/L	-8	20	m
Vinyl Chloride	477441349016	0.4821	0.4682	25.00	24.28	ug/L	-3	20	m
Bromomethane	477441349016	0.1700	0.1516	25.00	22.29	ug/L	-11	20	m
Chloroethane	477441349016	0.2965	0.2603	25.00	21.95	ug/L	-12	20	m
Trichlorofluoromethane	477441349016	0.4747	0.4373	25.00	23.03	ug/L	-8	20	
Acetone	477441349017	0.2347	0.2335	25.00	24.87	ug/L	-1	30	
Freon 113	477441349017	0.3961	0.3965	25.00	25.02	ug/L	0	20	
1,1-Dichloroethene	477441349017	0.3492	0.3762	25.00	26.93	ug/L	8	20	
Methylene Chloride	477441349017	0.4828	0.4936	25.00	25.56	ug/L	2	20	
Carbon Disulfide	477441349017	1.5657	1.5930	25.00	25.44	ug/L	2	20	
MTBE	477441349017	1.3745	1.2719	25.00	23.13	ug/L	-7	20	
trans-1,2-Dichloroethene	477441349017	0.4139	0.4163	25.00	25.14	ug/L	1	20	
Vinyl Acetate	477441349017	1.2231	1.1907	25.00	24.34	ug/L	-3	30	
1,1-Dichloroethane	477441349017	0.9129	0.8906	25.00	24.39	ug/L	-2	20	
2-Butanone	477441349017	0.3619	0.3251	25.00	22.46	ug/L	-10	30	
2,2-Dichloropropane	477441349017	0.5497	0.4915	25.00	22.35	ug/L	-11	20	
cis-1,2-Dichloroethene	477441349017	0.4503	0.4503	25.00	25.00	ug/L	0	20	
Chloroform	477441349017	0.7383	0.7228	25.00	24.48	ug/L	-2	20	
Bromochloromethane	477441349017	0.1905	0.1943	25.00	25.50	ug/L	2	20	
1,1,1-Trichloroethane	477441349017	0.4946	0.5001	25.00	25.28	ug/L	1	20	
1,1-Dichloropropene	477441349017	0.3038	0.3078	25.00	25.34	ug/L	1	20	
Carbon Tetrachloride	477441349017	0.1785	0.1834	25.00	25.69	ug/L	3	20	
1,2-Dichloroethane	477441349017	0.3021	0.2986	25.00	24.71	ug/L	-1	20	
Benzene	477441349017	0.8779	0.8733	25.00	24.87	ug/L	-1	20	
Trichloroethene	477441349017	0.2034	0.2042	25.00	25.09	ug/L	0	20	
1,2-Dichloropropane	477441349017	0.2710	0.2595	25.00	23.93	ug/L	-4	20	
Bromodichloromethane	477441349017	0.2728	0.2793	25.00	25.60	ug/L	2	20	
Dibromomethane	477441349017	0.1465	0.1499	25.00	25.59	ug/L	2	20	
4-Methyl-2-Pentanone	477441349017	0.3430	0.3184	25.00	23.21	ug/L	-7	30	
cis-1,3-Dichloropropene	477441349017	0.3638	0.3597	25.00	24.72	ug/L	-1	20	
Toluene	477441349017	0.4861	0.4799	25.00	24.68	ug/L	-1	20	
trans-1,3-Dichloropropene	477441349017	0.3237	0.3033	25.00	23.43	ug/L	-6	20	
1,1,2-Trichloroethane	477441349017	0.1114	0.1135	25.00	25.48	ug/L	2	20	
2-Hexanone	477441349017	0.3031	0.2738	25.00	22.58	ug/L	-10	30	
1,3-Dichloropropane	477441349017	0.4594	0.4519	25.00	24.59	ug/L	-2	20	
Tetrachloroethene	477441349017	0.1739	0.1698	25.00	24.42	ug/L	-2	20	
Dibromochloromethane	477441349017	0.2113	0.2119	25.00	25.07	ug/L	0	20	
1,2-Dibromoethane	477441349017	0.1937	0.1938	25.00	25.02	ug/L	0	20	
Chlorobenzene	477441349017	0.5781	0.5499	25.00	23.78	ug/L	-5	20	
1,1,1,2-Tetrachloroethane	477441349017	0.1789	0.1809	25.00	25.28	ug/L	1	20	
Ethylbenzene	477441349017	1.1124	1.1223	25.00	25.22	ug/L	1	20	
m,p-Xylenes	477441349017	0.3814	0.3805	50.00	49.88	ug/L	0	20	
o-Xylene	477441349017	0.3771	0.3684	25.00	24.43	ug/L	-2	20	
Styrene	477441349017	0.6524	0.6775	25.00	25.96	ug/L	4	20	
Bromoform	477441349017	0.1232	0.1285	25.00	26.08	ug/L	4	20	
Isopropylbenzene	477441349017	2.1067	1.9189	25.00	22.77	ug/L	-9	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	477441349017	0.8147	0.7992	25.00	24.52	ug/L	-2	20	
1,2,3-Trichloropropane	477441349017	0.1785	0.1800	25.00	25.22	ug/L	1	20	
Propylbenzene	477441349017	2.9573	2.9129	25.00	24.62	ug/L	-2	20	
Bromobenzene	477441349017	0.4625	0.4670	25.00	25.25	ug/L	1	20	
1,3,5-Trimethylbenzene	477441349017	1.7436	1.7501	25.00	25.09	ug/L	0	20	
2-Chlorotoluene	477441349017	1.8927	1.8588	25.00	24.55	ug/L	-2	20	
4-Chlorotoluene	477441349017	1.7586	1.6681	25.00	23.71	ug/L	-5	20	
tert-Butylbenzene	477441349017	1.3726	1.3399	25.00	24.41	ug/L	-2	20	
1,2,4-Trimethylbenzene	477441349017	1.7619	1.7923	25.00	25.43	ug/L	2	20	
sec-Butylbenzene	477441349017	2.3727	2.3555	25.00	24.82	ug/L	-1	20	
para-Isopropyl Toluene	477441349017	1.6809	1.5963	25.00	23.74	ug/L	-5	20	
1,3-Dichlorobenzene	477441349017	0.8720	0.8211	25.00	23.54	ug/L	-6	20	
1,4-Dichlorobenzene	477441349017	0.9072	0.8549	25.00	23.56	ug/L	-6	20	
n-Butylbenzene	477441349017	1.9189	1.9152	25.00	24.95	ug/L	0	20	
1,2-Dichlorobenzene	477441349017	0.8335	0.8082	25.00	24.24	ug/L	-3	20	
1,2-Dibromo-3-Chloropropane	477441349017	0.1353	0.1291	25.00	23.87	ug/L	-5	20	
1,2,4-Trichlorobenzene	477441349017	0.4395	0.4161	25.00	23.67	ug/L	-5	20	
Hexachlorobutadiene	477441349017	0.1237	0.1298	25.00	26.24	ug/L	5	20	
Naphthalene	477441349017	1.3452	1.3264	25.00	24.65	ug/L	-1	20	
1,2,3-Trichlorobenzene	477441349017	0.4070	0.4003	25.00	24.59	ug/L	-2	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : 30PPB IDF : 1.0
Seqnum : 477445722004.1 File : hk504 Time : 05-NOV-2007 14:16
Cal : 477441349003 Caldate : 02-NOV-2007 Caltype : WATER
Standards: S7417 (16670X), S7531 (16670X), S6351 (33330X), S7365 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.2582	0.3132	30.00	29.12	ug/L	-3	20	0.0500	m
Chloromethane	0.5699	0.5061	30.00	26.64	ug/L	-11	20	0.1000	m
Vinyl Chloride	0.4821	0.4691	30.00	29.19	ug/L	-3	20	0.0500	m
Bromomethane	0.1700	0.1478	30.00	26.09	ug/L	-13	20	0.0500	m
Chloroethane	0.2965	0.2698	30.00	27.30	ug/L	-9	20	0.0500	m
Trichlorofluoromethane	0.4747	0.4331	30.00	27.37	ug/L	-9	20	0.0500	
Acetone	0.2347	0.1945	30.00	24.87	ug/L	-17	30	0.0500	
Freon 113	0.3961	0.3598	30.00	27.25	ug/L	-9	20	0.0500	
1,1-Dichloroethene	0.3492	0.3155	30.00	27.11	ug/L	-10	20	0.0500	
Methylene Chloride	0.4828	0.4423	30.00	27.48	ug/L	-8	20	0.0500	m
Carbon Disulfide	1.5657	1.3992	30.00	26.81	ug/L	-11	20	0.0500	
MTBE	1.3745	1.2682	30.00	27.68	ug/L	-8	20	0.0500	
trans-1,2-Dichloroethene	0.4139	0.3835	30.00	27.80	ug/L	-7	20	0.0500	
Vinyl Acetate	1.2231	1.4017	30.00	34.38	ug/L	15	30	0.0500	
1,1-Dichloroethane	0.9129	0.8139	30.00	26.75	ug/L	-11	20	0.1000	
2-Butanone	0.3619	0.3064	30.00	25.40	ug/L	-15	30	0.0500	
2,2-Dichloropropane	0.5497	0.5325	30.00	29.06	ug/L	-3	20	0.0500	
cis-1,2-Dichloroethene	0.4503	0.4115	30.00	27.41	ug/L	-9	20	0.0500	
Chloroform	0.7383	0.6640	30.00	26.98	ug/L	-10	20	0.0500	
Bromochloromethane	0.1905	0.1836	30.00	28.91	ug/L	-4	20	0.0500	
1,1,1-Trichloroethane	0.4946	0.4437	30.00	26.91	ug/L	-10	20	0.0500	
1,1-Dichloropropene	0.3038	0.2769	30.00	27.34	ug/L	-9	20	0.0500	
Carbon Tetrachloride	0.1785	0.1635	30.00	27.49	ug/L	-8	20	0.0500	
1,2-Dichloroethane	0.3021	0.2792	30.00	27.72	ug/L	-8	20	0.0500	
Benzene	0.8779	0.8044	30.00	27.49	ug/L	-8	20	0.0500	
Trichloroethene	0.2034	0.1873	30.00	27.61	ug/L	-8	20	0.0500	
1,2-Dichloropropane	0.2710	0.2439	30.00	27.00	ug/L	-10	20	0.0500	
Bromodichloromethane	0.2728	0.2625	30.00	28.87	ug/L	-4	20	0.0500	
Dibromomethane	0.1465	0.1415	30.00	28.98	ug/L	-3	20	0.0500	
4-Methyl-2-Pentanone	0.3430	0.3064	30.00	26.80	ug/L	-11	30	0.0500	
cis-1,3-Dichloropropene	0.3638	0.3540	30.00	29.19	ug/L	-3	20	0.0500	
Toluene	0.4861	0.4568	30.00	28.19	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.3237	0.3178	30.00	29.45	ug/L	-2	20	0.0500	
1,1,2-Trichloroethane	0.1114	0.1070	30.00	28.82	ug/L	-4	20	0.0500	
2-Hexanone	0.3031	0.2725	30.00	26.98	ug/L	-10	30	0.0500	
1,3-Dichloropropane	0.4594	0.4375	30.00	28.57	ug/L	-5	20	0.0500	
Tetrachloroethene	0.1739	0.1658	30.00	28.61	ug/L	-5	20	0.0500	
Dibromochloromethane	0.2113	0.2109	30.00	29.93	ug/L	0	20	0.0500	
1,2-Dibromoethane	0.1937	0.1876	30.00	29.05	ug/L	-3	20	0.0500	
Chlorobenzene	0.5781	0.5480	30.00	28.44	ug/L	-5	20	0.3000	
1,1,1,2-Tetrachloroethane	0.1789	0.1711	30.00	28.70	ug/L	-4	20	0.0500	
Ethylbenzene	1.1124	1.0516	30.00	28.36	ug/L	-5	20	0.0500	
m,p-Xylenes	0.3814	0.3712	60.00	58.39	ug/L	-3	20	0.0500	
o-Xylene	0.3771	0.3548	30.00	28.23	ug/L	-6	20	0.0500	
Styrene	0.6524	0.6328	30.00	29.10	ug/L	-3	20	0.0500	
Bromoform	0.1232	0.1281	30.00	31.19	ug/L	4	20	0.1000	
Isopropylbenzene	2.1067	1.9167	30.00	27.29	ug/L	-9	20	0.0500	
1,1,2,2-Tetrachloroethane	0.8147	0.7360	30.00	27.10	ug/L	-10	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.1785	0.1701	30.00	28.59	ug/L	-5	20	0.0500	
Propylbenzene	2.9573	2.7041	30.00	27.43	ug/L	-9	20	0.0500	
Bromobenzene	0.4625	0.4430	30.00	28.74	ug/L	-4	20	0.0500	
1,3,5-Trimethylbenzene	1.7436	1.6032	30.00	27.59	ug/L	-8	20	0.0500	
2-Chlorotoluene	1.8927	1.7080	30.00	27.07	ug/L	-10	20	0.0500	
4-Chlorotoluene	1.7586	1.5761	30.00	26.89	ug/L	-10	20	0.0500	
tert-Butylbenzene	1.3726	1.2416	30.00	27.14	ug/L	-10	20	0.0500	
1,2,4-Trimethylbenzene	1.7619	1.6093	30.00	27.40	ug/L	-9	20	0.0500	
sec-Butylbenzene	2.3727	2.1399	30.00	27.06	ug/L	-10	20	0.0500	
para-Isopropyl Toluene	1.6809	1.5312	30.00	27.33	ug/L	-9	20	0.0500	
1,3-Dichlorobenzene	0.8720	0.7962	30.00	27.39	ug/L	-9	20	0.0500	
1,4-Dichlorobenzene	0.9072	0.8404	30.00	27.79	ug/L	-7	20	0.0500	
n-Butylbenzene	1.9189	1.7175	30.00	26.85	ug/L	-10	20	0.0500	
1,2-Dichlorobenzene	0.8335	0.7646	30.00	27.52	ug/L	-8	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1353	0.1191	30.00	26.41	ug/L	-12	20	0.0500	
1,2,4-Trichlorobenzene	0.4395	0.3851	30.00	26.29	ug/L	-12	20	0.0500	
Hexachlorobutadiene	0.1237	0.1146	30.00	27.81	ug/L	-7	20	0.0500	
Naphthalene	1.3452	1.2157	30.00	27.11	ug/L	-10	20	0.0500	
1,2,3-Trichlorobenzene	0.4070	0.3705	30.00	27.31	ug/L	-9	20	0.0500	
Dibromofluoromethane	0.7375	0.7281	50.00	49.36	ug/L	-1	20	0.0500	
1,2-Dichloroethane-d4	0.4211	0.4185	50.00	49.69	ug/L	-1	20	0.0500	
Toluene-d8	1.0754	1.0865	50.00	50.52	ug/L	1	20	0.0500	
Bromofluorobenzene	1.2863	1.2526	50.00	48.69	ug/L	-3	20	0.0500	

ISTD (ICAL hk212)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1561189	1670480	7.00	10.05	10.06	0.01
1,4-Difluorobenzene	3192098	3373974	5.70	11.18	11.17	-0.01
Chlorobenzene-d5	2536276	2669357	5.25	15.25	15.24	-0.01
1,4-Dichlorobenzene-d4	1171138	1262853	7.83	17.96	17.96	0.00

Analyst: WNH Date: 11/07/07 Reviewer: TEW Date: 11/07/07

m=manual integration

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 477445722

Date : 11/05/07
Sequence : MSVOA08 hk5

Reference : hk212
Analyzed : 11/02/07 18:25

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1561189	10.05	3192098	11.18	2536276	15.25	1171138	17.96
		LOWER LIMIT	780595	9.55	1596049	10.68	1268138	14.75	585569	17.46
		UPPER LIMIT	3122378	10.55	6384196	11.68	5072552	15.75	2342276	18.46
004	CCV	30PPB	1670480	10.06	3373974	11.17	2669357	15.24	1262853	17.96
005	BS	QC413784	1682504	10.05	3366776	11.17	2685191	15.24	1206343	17.96
006	BSD	QC413785	1668361	10.05	3338112	11.17	2638982	15.24	1191580	17.96
008	BLANK	QC413783	1567571	10.05	3222709	11.17	2563444	15.24	1099575	17.96
009	SAMPLE	198880-003	1567475	10.05	3213307	11.17	2582223	15.25	1121834	17.96
010	SAMPLE	198829-019	1542444	10.05	3190813	11.17	2493417	15.24	1079028	17.96
011	SAMPLE	198880-004	1468162	10.06	3068136	11.17	2454125	15.24	1078733	17.96
012	SAMPLE	198926-001	1531280	10.06	3178054	11.17	2532412	15.24	1106621	17.96
014	CCV	30PPB	1578819	10.05	3301687	11.17	2627661	15.24	1205797	17.96
016	BLANK	QC413832	1538195	10.05	3168826	11.17	2530391	15.24	1117278	17.97
017	SAMPLE	198840-012	1540229	10.05	3187779	11.18	2540183	15.25	1114163	17.96
018	SAMPLE	198840-013	1530985	10.06	3153229	11.17	2536467	15.24	1105478	17.96
020	SAMPLE	198859-003	1497468	10.05	3081778	11.18	2474017	15.25	1091115	17.96
021	SAMPLE	198859-004	1547315	10.06	3165527	11.17	2536259	15.24	1132004	17.96
022	SAMPLE	198859-005	1621391	10.05	3263063	11.18	2581840	15.25	1158569	17.96
023	SAMPLE	198859-006	1597604	10.05	3213390	11.17	2568320	15.25	1116452	17.96
024	SAMPLE	198859-001	1553491	10.05	3166387	11.18	2519448	15.25	1108741	17.96
025	SAMPLE	198859-002	1496129	10.05	3054127	11.18	2455812	15.25	1075030	17.96

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 477441349

Instrument : MSVOA08
Method : EPA 8260B
Begun : 11/02/07 11:49
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	hk201	X	IB			11/02/07 11:49	1.0	1
002	hk202	X	BFB			11/02/07 12:21	1.0	2
003	hk203	TUN	BFB			11/02/07 12:39	1.0	2
004	hk204	X	IB			11/02/07 13:08	1.0	1
005	hk205	IB	CALIB IB			11/02/07 13:46	1.0	1
006	hk206	ICAL	0.25/0.5PPB			11/02/07 14:36	1.0	3 4 5 1
007	hk207	ICAL	0.5/1PPB			11/02/07 15:14	1.0	3 4 5 1
008	hk208	ICAL	2PPB			11/02/07 15:52	1.0	3 4 5 1
009	hk209	ICAL	5PPB			11/02/07 16:30	1.0	3 4 5 1
010	hk210	ICAL	10PPB			11/02/07 17:08	1.0	3 4 5 1
011	hk211	ICAL	20PPB			11/02/07 17:46	1.0	6 7 8 1
012	hk212	ICAL	50PPB			11/02/07 18:25	1.0	6 7 8 1
013	hk213	ICAL	75PPB			11/02/07 19:03	1.0	6 7 8 1
014	hk214	ICAL	100PPB			11/02/07 19:41	1.0	6 7 8 1
015	hk215	X	IB			11/02/07 20:19	1.0	1
016	hk216	ICV				11/02/07 20:57	1.0	9 1
017	hk217	ICV				11/02/07 21:36	1.0	10 11 1
018	hk218	X	IB			11/02/07 22:14	1.0	1
019	hk219	X	IB			11/02/07 22:52	1.0	1
020	hk220	X	IB			11/02/07 23:30	1.0	1

TEW 11/06/07 : Bromomethane integration was based on retention time & baseline to baseline as much as was feasible.

Analyst: TEW Date: 11/05/07 Reviewer: LW Date: 11/06/07

Standards used: 1=S7365 2=S6497 3=S7425 4=S7424 5=S7235 6=S7417 7=S7531 8=S6351 9=S7415 10=S7480 11=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 477445722

Instrument : MSVOA08
Method : EPA 8260B

Begun : 11/05/07 12:42
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hk501	X	IB			11/05/07 12:42	1.0	1	
002	hk502	X	BFB			11/05/07 13:21	1.0	2	
003	hk503	TUN	BFB			11/05/07 13:46	1.0	2	
004	hk504	CCV	30PPB			11/05/07 14:16	1.0	3 4 5 1	
005	hk505	BS	QC413784	Water	131331	11/05/07 15:01	1.0	6 7 8 1	
006	hk506	BSD	QC413785	Water	131331	11/05/07 15:39	1.0	6 7 8 1	
007	hk507	X	IB			11/05/07 16:23	1.0	1	
008	hk508	BLANK	QC413783	Water	131331	11/05/07 17:01	1.0	1	
009	hk509	SAMPLE	198880-003	Water	131331	11/05/07 17:46	1.0	1	headspace <= 1 mL
010	hk510	SAMPLE	198829-019	Water	131331	11/05/07 18:24	1.0	1	headspace <= 1 mL
011	hk511	SAMPLE	198880-004	Water	131331	11/05/07 19:02	1.0	1	
012	hk512	SAMPLE	198926-001	Water	131331	11/05/07 19:41	1.0	1	
013	hk513	TUN	BFB			11/05/07 20:39	1.0	2	
014	hk514	CCV	30PPB			11/05/07 21:07	1.0	3 4 5 1	
015	hk515	X	IB			11/05/07 22:00	1.0	1	
016	hk516	BLANK	QC413832	Water	131331	11/05/07 22:38	1.0	1	
017	hk517	SAMPLE	198840-012	Water	131331	11/05/07 23:16	500.0	1	pH > 2
018	hk518	SAMPLE	198840-013	Water	131331	11/05/07 23:54	1000	1	pH > 2
019	hk519	X	IB			11/06/07 00:32	1.0	1	
020	hk520	SAMPLE	198859-003	Water	131331	11/06/07 01:10	1.0	1	
021	hk521	SAMPLE	198859-004	Water	131331	11/06/07 01:48	1.0	1	
022	hk522	SAMPLE	198859-005	Water	131331	11/06/07 02:26	1.0	1	
023	hk523	SAMPLE	198859-006	Water	131331	11/06/07 03:04	1.0	1	
024	hk524	SAMPLE	198859-001	Water	131331	11/06/07 03:42	4.0	1	
025	hk525	SAMPLE	198859-002	Water	131331	11/06/07 04:20	6.25	1	
026	hk526	X	IB			11/06/07 04:58	1.0	1	
027	hk527	X	IB			11/06/07 05:36	1.0	1	
028	hk528	X	IB			11/06/07 06:14	1.0	1	

Analyst: TEW Date: 11/06/07 Reviewer: LW Date: 11/06/07

Standards used: 1=S7365 2=S6497 3=S7417 4=S7531 5=S6351 6=S7480 7=S7498 8=S7415

REPORTING SUMMARY FOR 198880 MSVOA Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF
198880-003	MSVOA08	11/05/07 17:46	1.0
198880-004	MSVOA08	11/05/07 19:02	1.0
QC413783	MSVOA08	11/05/07 17:01	1.0
QC413784	MSVOA08	11/05/07 15:01	1.0
QC413785	MSVOA08	11/05/07 15:39	1.0
QC413832	MSVOA08	11/05/07 22:38	1.0

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 11/5/07
PREPPED BY. TEW

13|331

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	198880-003		B	<2	bubble		8	1x TB	
2	↓ -004		H					↓	
3	198926-001		B		~~bubble~~	JKW 11/5/07		↓ TB	
4	198829-019		A		bubble			4x	
5	198859-001		D	<2				6.25x	
6	↓ -002		C	↓				1x	
7	-003		↓	<2				↓	
8	-004			↓					
9	-005							~~Put 11RT~~ JKW 11/5/07	
10	-006		↓	↓				500x	
11	198840-012		B	7				1000x	
12	↓ -013		↓	3			↓		
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									

PREPFORM.XLS

7/21/98

Curtis & Tompkins, Ltd

Volatile Organics
Soil

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX357[4.0]	Diln Fac:	250.0
Lab ID:	198880-001	Batch#:	131304
Matrix:	Soil	Sampled:	10/31/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/05/07

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	3,000	220
Chloromethane	ND	3,000	160
Vinyl Chloride	ND	3,000	140
Bromomethane	ND	3,000	270
Chloroethane	ND	3,000	380
Trichlorofluoromethane	ND	1,500	110
Acetone	980 J	6,000	830
Freon 113	ND	1,500	180
1,1-Dichloroethene	ND	1,500	350
Methylene Chloride	2,200 J b	6,000	580
Carbon Disulfide	ND	1,500	430
MTBE	ND	1,500	190
trans-1,2-Dichloroethene	ND	1,500	180
Vinyl Acetate	ND	15,000	160
1,1-Dichloroethane	ND	1,500	190
2-Butanone	ND	3,000	720
cis-1,2-Dichloroethene	ND	1,500	130
2,2-Dichloropropane	ND	1,500	140
Chloroform	ND	1,500	140
Bromochloromethane	ND	1,500	280
1,1,1-Trichloroethane	ND	1,500	110
1,1-Dichloropropene	ND	1,500	140
Carbon Tetrachloride	ND	1,500	170
1,2-Dichloroethane	ND	1,500	180
Benzene	ND	1,500	130
Trichloroethene	ND	1,500	120
1,2-Dichloropropane	ND	1,500	170
Bromodichloromethane	ND	1,500	180
Dibromomethane	ND	1,500	270
4-Methyl-2-Pentanone	ND	3,000	450
cis-1,3-Dichloropropene	ND	1,500	180
Toluene	ND	1,500	220
trans-1,3-Dichloropropene	ND	1,500	160
1,1,2-Trichloroethane	ND	1,500	290
2-Hexanone	ND	3,000	250
1,3-Dichloropropane	ND	1,500	110
Tetrachloroethene	ND	1,500	140
Dibromochloromethane	ND	1,500	130
1,2-Dibromoethane	ND	1,500	260
Chlorobenzene	ND	1,500	99
1,1,1,2-Tetrachloroethane	ND	1,500	94
Ethylbenzene	ND	1,500	120
m,p-Xylenes	ND	1,500	44
o-Xylene	ND	1,500	140
Styrene	ND	1,500	96
Bromoform	ND	1,500	110
Isopropylbenzene	820 J b	1,500	66
1,1,2,2-Tetrachloroethane	ND	1,500	150

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX357[4.0]	Diln Fac:	250.0
Lab ID:	198880-001	Batch#:	131304
Matrix:	Soil	Sampled:	10/31/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/05/07

Analyte	Result	RL	MDL
1,2,3-Trichloropropane	ND	1,500	140
Propylbenzene	1,200 J b	1,500	84
Bromobenzene	ND	1,500	65
1,3,5-Trimethylbenzene	ND	1,500	82
2-Chlorotoluene	ND	1,500	110
4-Chlorotoluene	ND	1,500	130
tert-Butylbenzene	ND	1,500	62
1,2,4-Trimethylbenzene	ND	1,500	75
sec-Butylbenzene	780 J	1,500	60
para-Isopropyl Toluene	530 J	1,500	96
1,3-Dichlorobenzene	ND	1,500	120
1,4-Dichlorobenzene	ND	1,500	110
n-Butylbenzene	1,100 J	1,500	100
1,2-Dichlorobenzene	ND	1,500	110
1,2-Dibromo-3-Chloropropane	ND	1,500	180
1,2,4-Trichlorobenzene	ND	1,500	130
Hexachlorobutadiene	ND	1,500	120
Naphthalene	ND	1,500	68
1,2,3-Trichlorobenzene	ND	1,500	110

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-124
1,2-Dichloroethane-d4	82	79-136
Toluene-d8	112	80-120
Bromofluorobenzene	131 *	80-122
Trifluorotoluene (MeOH)	91	55-146

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX358[4.0]	Diln Fac:	0.9804
Lab ID:	198880-002	Batch#:	131245
Matrix:	Soil	Sampled:	10/31/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Moisture: 10%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.6
Chloromethane	ND	11	0.7
Vinyl Chloride	ND	11	0.6
Bromomethane	ND	11	0.5
Chloroethane	ND	11	0.5
Trichlorofluoromethane	ND	5.4	0.6
Acetone	1.5 J	22	1.0
Freon 113	ND	5.4	0.7
1,1-Dichloroethene	ND	5.4	0.5
Methylene Chloride	5.4 J	22	0.4
Carbon Disulfide	ND	5.4	0.6
MTBE	ND	5.4	0.5
trans-1,2-Dichloroethene	ND	5.4	0.4
Vinyl Acetate	ND	54	0.4
1,1-Dichloroethane	ND	5.4	0.4
2-Butanone	ND	11	0.5
cis-1,2-Dichloroethene	ND	5.4	0.4
2,2-Dichloropropane	ND	5.4	0.4
Chloroform	ND	5.4	0.4
Bromochloromethane	ND	5.4	0.3
1,1,1-Trichloroethane	ND	5.4	0.4
1,1-Dichloropropene	ND	5.4	0.4
Carbon Tetrachloride	ND	5.4	0.4
1,2-Dichloroethane	ND	5.4	0.4
Benzene	ND	5.4	0.3
Trichloroethene	ND	5.4	0.5
1,2-Dichloropropane	ND	5.4	0.4
Bromodichloromethane	ND	5.4	0.4
Dibromomethane	ND	5.4	0.4
4-Methyl-2-Pentanone	ND	11	0.3
cis-1,3-Dichloropropene	ND	5.4	0.3
Toluene	ND	5.4	0.4
trans-1,3-Dichloropropene	ND	5.4	0.3
1,1,2-Trichloroethane	ND	5.4	0.4
2-Hexanone	ND	11	0.5
1,3-Dichloropropane	ND	5.4	0.3
Tetrachloroethene	ND	5.4	0.5
Dibromochloromethane	ND	5.4	0.3
1,2-Dibromoethane	ND	5.4	0.3
Chlorobenzene	ND	5.4	0.3
1,1,1,2-Tetrachloroethane	ND	5.4	0.4
Ethylbenzene	ND	5.4	0.4
m,p-Xylenes	ND	5.4	1.0
o-Xylene	ND	5.4	0.6
Styrene	ND	5.4	0.5
Bromoform	ND	5.4	0.2
Isopropylbenzene	ND	5.4	0.7
1,1,2,2-Tetrachloroethane	ND	5.4	0.3
1,2,3-Trichloropropane	ND	5.4	0.5
Propylbenzene	ND	5.4	0.7

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX358[4.0]	Diln Fac:	0.9804
Lab ID:	198880-002	Batch#:	131245
Matrix:	Soil	Sampled:	10/31/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Analyte	Result	RL	MDL
Bromobenzene	ND	5.4	0.5
1,3,5-Trimethylbenzene	ND	5.4	0.7
2-Chlorotoluene	ND	5.4	0.6
4-Chlorotoluene	ND	5.4	0.4
tert-Butylbenzene	ND	5.4	0.9
1,2,4-Trimethylbenzene	ND	5.4	0.6
sec-Butylbenzene	ND	5.4	1.0
para-Isopropyl Toluene	ND	5.4	0.8
1,3-Dichlorobenzene	ND	5.4	0.6
1,4-Dichlorobenzene	ND	5.4	0.5
n-Butylbenzene	ND	5.4	0.9
1,2-Dichlorobenzene	ND	5.4	0.4
1,2-Dibromo-3-Chloropropane	ND	5.4	0.7
1,2,4-Trichlorobenzene	ND	5.4	0.7
Hexachlorobutadiene	ND	5.4	1.0
Naphthalene	ND	5.4	0.5
1,2,3-Trichlorobenzene	ND	5.4	0.6

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	84	79-136
Toluene-d8	102	80-120
Bromofluorobenzene	112	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413434	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131245
Units:	ug/Kg	Analyzed:	11/02/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.5
Chloromethane	ND	10	0.6
Vinyl Chloride	ND	10	0.6
Bromomethane	ND	10	0.4
Chloroethane	ND	10	0.5
Trichlorofluoromethane	ND	5.0	0.5
Acetone	1.8 J	20	0.9
Freon 113	ND	5.0	0.6
1,1-Dichloroethene	ND	5.0	0.4
Methylene Chloride	1.2 J	20	0.4
Carbon Disulfide	ND	5.0	0.5
MTBE	ND	5.0	0.5
trans-1,2-Dichloroethene	ND	5.0	0.4
Vinyl Acetate	ND	50	0.4
1,1-Dichloroethane	ND	5.0	0.4
2-Butanone	ND	10	0.5
cis-1,2-Dichloroethene	ND	5.0	0.4
2,2-Dichloropropane	ND	5.0	0.4
Chloroform	ND	5.0	0.4
Bromochloromethane	ND	5.0	0.2
1,1,1-Trichloroethane	ND	5.0	0.3
1,1-Dichloropropene	ND	5.0	0.4
Carbon Tetrachloride	ND	5.0	0.4
1,2-Dichloroethane	ND	5.0	0.4
Benzene	ND	5.0	0.3
Trichloroethene	ND	5.0	0.4
1,2-Dichloropropane	ND	5.0	0.4
Bromodichloromethane	ND	5.0	0.4
Dibromomethane	ND	5.0	0.4
4-Methyl-2-Pentanone	ND	10	0.3
cis-1,3-Dichloropropene	ND	5.0	0.3
Toluene	ND	5.0	0.4
trans-1,3-Dichloropropene	ND	5.0	0.3
1,1,2-Trichloroethane	ND	5.0	0.4
2-Hexanone	ND	10	0.4
1,3-Dichloropropane	ND	5.0	0.3
Tetrachloroethene	ND	5.0	0.5
Dibromochloromethane	ND	5.0	0.3
1,2-Dibromoethane	ND	5.0	0.2
Chlorobenzene	ND	5.0	0.3
1,1,1,2-Tetrachloroethane	ND	5.0	0.4
Ethylbenzene	ND	5.0	0.4
m,p-Xylenes	ND	5.0	0.9
o-Xylene	ND	5.0	0.5
Styrene	ND	5.0	0.5
Bromoform	ND	5.0	0.2
Isopropylbenzene	ND	5.0	0.6
1,1,2,2-Tetrachloroethane	ND	5.0	0.3
1,2,3-Trichloropropane	ND	5.0	0.4
Propylbenzene	ND	5.0	0.6
Bromobenzene	ND	5.0	0.4
1,3,5-Trimethylbenzene	ND	5.0	0.7

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

16.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413434	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131245
Units:	ug/Kg	Analyzed:	11/02/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.6
4-Chlorotoluene	ND	5.0	0.3
tert-Butylbenzene	ND	5.0	0.8
1,2,4-Trimethylbenzene	ND	5.0	0.5
sec-Butylbenzene	ND	5.0	0.9
para-Isopropyl Toluene	ND	5.0	0.8
1,3-Dichlorobenzene	ND	5.0	0.6
1,4-Dichlorobenzene	ND	5.0	0.5
n-Butylbenzene	ND	5.0	0.8
1,2-Dichlorobenzene	ND	5.0	0.4
1,2-Dibromo-3-Chloropropane	ND	5.0	0.6
1,2,4-Trichlorobenzene	ND	5.0	0.6
Hexachlorobutadiene	ND	5.0	0.9
Naphthalene	ND	5.0	0.5
1,2,3-Trichlorobenzene	ND	5.0	0.6

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	90	79-136
Toluene-d8	102	80-120
Bromofluorobenzene	113	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

16.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413653	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131304
Units:	ug/Kg	Analyzed:	11/05/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.54
Chloromethane	ND	10	0.63
Vinyl Chloride	ND	10	0.56
Bromomethane	ND	10	0.44
Chloroethane	ND	10	0.46
Trichlorofluoromethane	ND	5.0	0.51
Acetone	ND	20	0.92
Freon 113	ND	5.0	0.61
1,1-Dichloroethene	ND	5.0	0.44
Methylene Chloride	ND	20	0.41
Carbon Disulfide	ND	5.0	0.51
MTBE	ND	5.0	0.45
trans-1,2-Dichloroethene	ND	5.0	0.41
Vinyl Acetate	ND	50	0.36
1,1-Dichloroethane	ND	5.0	0.38
2-Butanone	ND	10	0.50
cis-1,2-Dichloroethene	ND	5.0	0.40
2,2-Dichloropropane	ND	5.0	0.38
Chloroform	ND	5.0	0.37
Bromochloromethane	ND	5.0	0.24
1,1,1-Trichloroethane	ND	5.0	0.34
1,1-Dichloropropene	ND	5.0	0.36
Carbon Tetrachloride	ND	5.0	0.41
1,2-Dichloroethane	ND	5.0	0.37
Benzene	ND	5.0	0.30
Trichloroethene	ND	5.0	0.43
1,2-Dichloropropane	ND	5.0	0.40
Bromodichloromethane	ND	5.0	0.40
Dibromomethane	ND	5.0	0.35
4-Methyl-2-Pentanone	ND	10	0.25
cis-1,3-Dichloropropene	ND	5.0	0.32
Toluene	ND	5.0	0.41
trans-1,3-Dichloropropene	ND	5.0	0.26
1,1,2-Trichloroethane	ND	5.0	0.40
2-Hexanone	ND	10	0.43
1,3-Dichloropropane	ND	5.0	0.29
Tetrachloroethene	ND	5.0	0.50
Dibromochloromethane	ND	5.0	0.31
1,2-Dibromoethane	ND	5.0	0.23
Chlorobenzene	ND	5.0	0.28
1,1,1,2-Tetrachloroethane	ND	5.0	0.36
Ethylbenzene	ND	5.0	0.40
m,p-Xylenes	ND	5.0	0.93
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.47
Bromoform	ND	5.0	0.20
Isopropylbenzene	ND	5.0	0.60
1,1,2,2-Tetrachloroethane	ND	5.0	0.27
1,2,3-Trichloropropane	ND	5.0	0.44
Propylbenzene	ND	5.0	0.65
Bromobenzene	ND	5.0	0.41
1,3,5-Trimethylbenzene	ND	5.0	0.67
2-Chlorotoluene	ND	5.0	0.57

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

20.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413653	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131304
Units:	ug/Kg	Analyzed:	11/05/07

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	5.0	0.33
tert-Butylbenzene	ND	5.0	0.79
1,2,4-Trimethylbenzene	ND	5.0	0.53
sec-Butylbenzene	ND	5.0	0.90
para-Isopropyl Toluene	ND	5.0	0.78
1,3-Dichlorobenzene	ND	5.0	0.55
1,4-Dichlorobenzene	ND	5.0	0.45
n-Butylbenzene	ND	5.0	0.81
1,2-Dichlorobenzene	ND	5.0	0.37
1,2-Dibromo-3-Chloropropane	ND	5.0	0.61
1,2,4-Trichlorobenzene	ND	5.0	0.62
Hexachlorobutadiene	ND	5.0	0.89
Naphthalene	ND	5.0	0.48
1,2,3-Trichlorobenzene	ND	5.0	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	89	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	111	80-122

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	131245
Basis:	as received	Analyzed:	11/02/07

Type: BS Lab ID: QC413435

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	30.01	120	74-131
Benzene	25.00	26.63	107	77-121
Trichloroethene	25.00	25.70	103	77-121
Toluene	25.00	27.21	109	79-122
Chlorobenzene	25.00	24.60	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	84	79-136
Toluene-d8	105	80-120
Bromofluorobenzene	108	80-122

Type: BSD Lab ID: QC413436

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	30.86	123	74-131	3	20
Benzene	25.00	27.11	108	77-121	2	20
Trichloroethene	25.00	26.22	105	77-121	2	20
Toluene	25.00	27.77	111	79-122	2	20
Chlorobenzene	25.00	25.02	100	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	85	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	108	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC413654	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131304
Units:	ug/Kg	Analyzed:	11/05/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.47	114	74-131
Benzene	25.00	27.31	109	77-121
Trichloroethene	25.00	27.31	109	77-121
Toluene	25.00	27.42	110	79-122
Chlorobenzene	25.00	25.75	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	86	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	110	80-122

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX352[4.0]	Diln Fac:	500.0
MSS Lab ID:	198818-004	Batch#:	131245
Matrix:	Soil	Sampled:	10/30/07
Units:	ug/Kg	Received:	10/30/07
Basis:	dry	Analyzed:	11/02/07

Type: MS
Lab ID: QC413552

Moisture: 17%

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<711.0	30,120	40,500	134	61-145
Benzene	<264.8	30,120	31,470	104	57-123
Trichloroethene	<245.6	30,120	33,220	110	52-141
Toluene	<440.8	30,120	34,330	114	53-126
Chlorobenzene	<200.5	30,120	29,870	99	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	80	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	132 *	80-122
Trifluorotoluene (MeOH)	DO	55-146

Type: MSD
Lab ID: QC413553

Moisture: 17%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	30,120	43,510	144	61-145	7	26
Benzene	30,120	29,950	99	57-123	5	25
Trichloroethene	30,120	31,790	106	52-141	4	26
Toluene	30,120	31,820	106	53-126	8	27
Chlorobenzene	30,120	28,320	94	49-121	5	27

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	83	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	137 *	80-122
Trifluorotoluene (MeOH)	DO	55-146

*= Value outside of QC limits; see narrative
DO= Diluted Out
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	198889-001	Batch#:	131304
Matrix:	Miscell.	Sampled:	10/31/07
Units:	ug/Kg	Received:	11/01/07
Basis:	as received	Analyzed:	11/05/07

Type: MS Lab ID: QC413789

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4372	50.00	55.55	111	61-145
Benzene	<0.3048	50.00	44.65	89	57-123
Trichloroethene	<0.4304	50.00	43.46	87	52-141
Toluene	1.128	50.00	42.23	82	53-126
Chlorobenzene	<0.2792	50.00	36.86	74	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	86	79-136
Toluene-d8	97	80-120
Bromofluorobenzene	114	80-122

Type: MSD Lab ID: QC413790

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	51.87	104	61-145	7	26
Benzene	50.00	37.24	74	57-123	18	25
Trichloroethene	50.00	37.02	74	52-141	16	26
Toluene	50.00	35.88	70	53-126	16	27
Chlorobenzene	50.00	31.51	63	49-121	16	27

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	83	79-136
Toluene-d8	97	80-120
Bromofluorobenzene	115	80-122

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 198880 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887436786010 File : lju10 Time : 30-OCT-2007 15:38

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12308	19.39	
75	30% - 60% of mass 95	32098	50.58	
95		63464		
96	5% - 9% of mass 95	4233	6.67	
173	< 2% of mass 174	522	1.05	
174	> 50% and < 100% of mass 95	49762	78.41	
175	5% - 9% of mass 174	3542	7.12	
176	> 95% and < 101% of mass 174	48338	97.14	
177	5% - 9% of mass 176	3224	6.67	

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

CURTIS & TOMPKINS BFB TUNE FOR 198880 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887441238001 File : lk201 Time : 02-NOV-2007 09:58

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	10651	16.83	
75	30% - 60% of mass 95	28586	45.17	
95		63285		
96	5% - 9% of mass 95	4341	6.86	
173	< 2% of mass 174	426	0.87	
174	> 50% and < 100% of mass 95	49160	77.68	
175	5% - 9% of mass 174	3916	7.97	
176	> 95% and < 101% of mass 174	47890	97.42	
177	5% - 9% of mass 176	3232	6.75	

Analyst: WNH Date: 11/02/07 Reviewer: LW Date: 11/02/07

887441238001

CURTIS & TOMPKINS BFB TUNE FOR 198880 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887445431006 File : lk506 Time : 05-NOV-2007 12:01

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	10039	16.12	
75	30% - 60% of mass 95	27952	44.88	
95		62288		
96	5% - 9% of mass 95	4495	7.22	
173	< 2% of mass 174	371	0.75	
174	> 50% and < 100% of mass 95	49506	79.48	
175	5% - 9% of mass 174	3456	6.98	
176	> 95% and < 101% of mass 174	47632	96.21	
177	5% - 9% of mass 176	3243	6.81	

Analyst: WNH Date: 11/05/07 Reviewer: LW Date: 11/06/07

887445431006

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 MSVOA Soil: EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 887436786002 Date : 30-OCT-2007 17:42 Type : SOIL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	lju14	887436786014	2.5PPB	30-OCT-2007 17:42	S7425 (20000X), S7424 (20000X), S7365 (5000X)
L2	lju15	887436786015	5PPB	30-OCT-2007 18:14	S7425 (10000X), S7424 (10000X), S7365 (5000X)
L3	lju16	887436786016	10PPB	30-OCT-2007 18:47	S7425 (5000X), S7424 (5000X), S7365 (5000X)
L4	lju17	887436786017	20PPB	30-OCT-2007 19:19	S7417 (25000X), S7531 (25000X), S7365 (5000X)
L5	lju18	887436786018	50PPB	30-OCT-2007 19:51	S7417 (10000X), S7531 (10000X), S7365 (5000X)
L6	lju19	887436786019	60PPB	30-OCT-2007 20:23	S7417 (8333X), S7531 (8333X), S7365 (5000X)
L7	lju20	887436786020	75PPB	30-OCT-2007 20:56	S7417 (6667X), S7531 (6667X), S7365 (5000X)
L8	lju21	887436786021	100PPB	30-OCT-2007 21:28	S7417 (5000X), S7531 (5000X), S7365 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6356	0.5744	0.7385	0.8076	0.8088	0.8065	0.7544	AVRG		1.36562		0.7323	13	15	0.05	0.99	
Chloromethane		1.3230	1.2720	1.3574	1.3839	1.3471	1.3262	1.2206	AVRG		0.75837		1.3186	4	15	0.10	0.99	
Vinyl Chloride	1.3841	1.2800	1.2958	1.3439	1.4293	1.3724	1.3850	1.2895	AVRG		0.74212		1.3475	4	15	0.05	0.99	
Bromomethane		0.7816	0.7795	0.7243	0.7960	0.7932	0.7962	0.7472	AVRG		1.29199		0.7740	4	15	0.05	0.99	
Chloroethane		0.8583	0.8303	0.7991	0.8628	0.8445	0.8419	0.7758	AVRG		1.20426		0.8304	4	15	0.05	0.99	
Trichlorofluoromethane		1.6479	1.6562	1.5592	1.7356	1.7086	1.7288	1.6252	AVRG		0.60026		1.6659	4	15	0.05	0.99	
Acetone			0.2710	0.2658	0.2126	0.2399	0.2079	0.1885	AVRG		4.33023		0.2309	14	15	0.05	0.99	
Freon 113		1.0336	0.8471	0.7361	0.7825	0.7769	0.7636	0.7141	AVRG		1.23807		0.8077	13	15	0.05	0.99	
1,1-Dichloroethene		0.7866	0.5853	0.5145	0.5881	0.6054	0.6056	0.5888	AVRG		1.63765		0.6106	14	15	0.05	0.99	
Methylene Chloride			0.8144	0.7279	0.7450	0.7498	0.7380	0.6923	AVRG		1.34311		0.7445	5	15	0.05	0.99	
Carbon Disulfide		2.6215	2.5239	2.2249	2.3761	2.3561	2.3064	2.1720	AVRG		0.42217		2.3687	7	15	0.05	0.99	
MTBE		1.4417	1.4406	1.4464	1.6811	1.7151	1.7485	1.7119	AVRG		0.62583		1.5979	9	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6835	0.7132	0.6665	0.7078	0.7282	0.7248	0.6937	AVRG		1.42345		0.7025	3	15	0.05	0.99	
Vinyl Acetate		0.6667	0.7004	0.9370	1.0952	1.1373	1.1559	1.1318	LINR	3.29423	0.84369		0.9749	0.999	15	0.05	0.99	
1,1-Dichloroethane		1.4451	1.3960	1.2843	1.3630	1.3760	1.3553	1.2916	AVRG		0.73598		1.3587	4	15	0.10	0.99	
2-Butanone			0.2877	0.2674	0.2914	0.2920	0.3063	0.2963	AVRG		3.44618		0.2902	4	15	0.05	0.99	
2,2-Dichloropropane		1.1173	1.0992	1.0082	1.0917	1.1108	1.1017	1.0677	AVRG		0.92146		1.0852	3	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6665	0.6863	0.6777	0.7521	0.7807	0.7557	0.7345	AVRG		1.38517		0.7219	6	15	0.05	0.99	
Chloroform		1.3775	1.3748	1.2162	1.2723	1.2932	1.2725	1.2366	AVRG		0.77408		1.2919	5	15	0.05	0.99	
Bromochloromethane		0.3421	0.3475	0.3221	0.3390	0.3474	0.3454	0.3390	AVRG		2.93813		0.3404	3	15	0.05	0.99	
1,1,1-Trichloroethane		1.2560	1.2266	1.0895	1.1358	1.1688	1.1369	1.1025	AVRG		0.86249		1.1594	5	15	0.05	0.99	
1,1-Dichloropropene		0.5890	0.6140	0.5803	0.6869	0.7046	0.6977	0.6820	AVRG		1.53688		0.6507	8	15	0.05	0.99	
Carbon Tetrachloride		0.7121	0.7190	0.6299	0.7003	0.7014	0.6895	0.6737	AVRG		1.45052		0.6894	4	15	0.05	0.99	
1,2-Dichloroethane		0.6784	0.6419	0.5973	0.6131	0.6180	0.6047	0.5891	AVRG		1.61199		0.6203	5	15	0.05	0.99	
Benzene		2.2478	2.2492	1.9969	2.1758	2.1683	2.0912	1.9895	AVRG		0.46921		2.1312	5	15	0.05	0.99	

198880 QS181

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4757	0.4690	0.4415	0.4913	0.5008	0.4973	0.4848	AVRG		2.08303		0.4801	4	15	0.05	0.99	
1,2-Dichloropropane		0.4802	0.4848	0.4662	0.5074	0.5096	0.5019	0.4953	AVRG		2.03169		0.4922	3	15	0.05	0.99	
Bromodichloromethane		0.6196	0.6119	0.5542	0.6125	0.6161	0.6134	0.6016	AVRG		1.65506		0.6042	4	15	0.05	0.99	
Dibromomethane		0.2575	0.2564	0.2301	0.2448	0.2497	0.2449	0.2389	AVRG		4.06439		0.2460	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.3513	0.3956	0.4153	0.4653	0.4673	0.4853	0.4728	AVRG		2.29287		0.4361	11	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6185	0.6744	0.6721	0.7726	0.7833	0.7780	0.7608	AVRG		1.38350		0.7228	9	15	0.05	0.99	
Toluene		1.3914	1.4214	1.2814	1.4173	1.4415	1.4047	1.3572	AVRG		0.72055		1.3878	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5481	0.5930	0.5715	0.6572	0.6817	0.6860	0.6806	AVRG		1.58440		0.6312	9	15	0.05	0.99	
1,1,2-Trichloroethane		0.2325	0.2082	0.1986	0.2126	0.2138	0.2115	0.2089	AVRG		4.71063		0.2123	5	15	0.05	0.99	
2-Hexanone			0.2640	0.2820	0.3340	0.3390	0.3618	0.3474	AVRG		3.11156		0.3214	12	15	0.05	0.99	
1,3-Dichloropropane		0.7565	0.7457	0.7367	0.7512	0.7751	0.7619	0.7293	AVRG		1.33172		0.7509	2	15	0.05	0.99	
Tetrachloroethene		0.6162	0.6110	0.5551	0.6068	0.6206	0.6055	0.5934	AVRG		1.66335		0.6012	4	15	0.05	0.99	
Dibromochloromethane		0.4285	0.4330	0.4063	0.4398	0.4624	0.4534	0.4426	AVRG		2.28318		0.4380	4	15	0.05	0.99	
1,2-Dibromoethane		0.3431	0.3398	0.3182	0.3615	0.3650	0.3724	0.3626	AVRG		2.84254		0.3518	5	15	0.05	0.99	
Chlorobenzene		1.6946	1.7050	1.5384	1.6412	1.6838	1.6274	1.5720	AVRG		0.61070		1.6375	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.5745	0.5778	0.5115	0.5429	0.5637	0.5536	0.5376	AVRG		1.81266		0.5517	4	15	0.05	0.99	
Ethylbenzene		2.6736	2.9031	2.7050	2.9936	3.0521	2.9643	2.7765	AVRG		0.34881		2.8669	5	15	0.05	0.99	
m,p-Xylenes	0.9913	1.0776	1.1954	1.1107	1.2275	1.2596	1.2186	1.1631	AVRG		0.86543		1.1555	8	15	0.05	0.99	
o-Xylene		0.8571	0.9888	0.9634	1.1565	1.1982	1.1929	1.1680	AVRG		0.93025		1.0750	13	15	0.05	0.99	
Styrene		1.3964	1.6473	1.6136	1.8679	1.9458	1.9370	1.8823	AVRG		0.56956		1.7558	12	15	0.05	0.99	
Bromoform		0.2947	0.3096	0.3016	0.3363	0.3510	0.3603	0.3596	AVRG		3.02622		0.3304	9	15	0.10	0.99	
Isopropylbenzene		3.4178	3.8897	3.7870	4.4566	4.5843	4.3797	4.2705	AVRG		0.24318		4.1123	10	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9979	1.0049	0.9140	0.9409	0.9597	0.9293	0.9397	AVRG		1.04692		0.9552	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.9782	1.0343	0.9307	0.9640	0.9860	0.9705	0.9695	AVRG		1.02441		0.9762	3	15	0.05	0.99	
Propylbenzene		5.1030	5.6811	5.2346	5.8409	5.9023	5.4987	5.2158	AVRG		0.18193		5.4966	6	15	0.05	0.99	
Bromobenzene		1.1249	1.1101	1.0029	1.0932	1.1339	1.1025	1.1039	AVRG		0.91248		1.0959	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.3189	3.7621	3.5999	4.1254	4.2307	4.0306	3.9281	AVRG		0.25930		3.8565	8	15	0.05	0.99	
2-Chlorotoluene		3.6893	3.8899	3.5291	3.8769	3.9657	3.7628	3.7224	AVRG		0.26479		3.7766	4	15	0.05	0.99	
4-Chlorotoluene		3.0536	3.2984	3.0339	3.4276	3.5314	3.3519	3.3091	AVRG		0.30427		3.2866	6	15	0.05	0.99	
tert-Butylbenzene		2.7770	3.2554	3.1459	3.6803	3.7686	3.6167	3.5396	AVRG		0.29432		3.3976	10	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.5010	4.0463	3.7947	4.2558	4.3307	4.1229	3.9870	AVRG		0.24966		4.0055	7	15	0.05	0.99	
sec-Butylbenzene		4.7047	5.2731	5.0313	5.7427	5.8009	5.4711	5.1993	AVRG		0.18806		5.3176	7	15	0.05	0.99	
para-Isopropyl Toluene		3.7172	4.4274	4.2347	4.8549	4.9170	4.6837	4.5072	AVRG		0.22334		4.4774	9	15	0.05	0.99	
1,3-Dichlorobenzene		2.3472	2.3573	2.1469	2.3419	2.4125	2.2924	2.2964	AVRG		0.43224		2.3135	4	15	0.05	0.99	
1,4-Dichlorobenzene		2.5887	2.5265	2.2669	2.4073	2.4638	2.3332	2.3224	AVRG		0.41399		2.4155	5	15	0.05	0.99	
n-Butylbenzene		3.6688	4.1918	4.0838	4.6960	4.7569	4.4909	4.3248	AVRG		0.23169		4.3162	9	15	0.05	0.99	
1,2-Dichlorobenzene		2.0585	2.1184	1.9770	2.1276	2.1951	2.1074	2.0900	AVRG		0.47703		2.0963	3	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1785	0.1768	0.1750	0.1916	0.1915	0.1941	0.1963	AVRG		5.36879		0.1863	5	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.1929	1.2856	1.2655	1.5060	1.5614	1.5322	1.5548	AVRG		0.70719		1.4140	11	15	0.05	0.99	
Hexachlorobutadiene		0.9433	1.0042	0.9117	1.0054	1.0391	0.9951	0.9950	AVRG		1.01539		0.9848	4	15	0.05	0.99	
Naphthalene		2.0541	2.3485	2.6654	3.2712	3.3408	3.3679	3.3888	LINR	3.27229	0.28497		2.9195	0.999	15	0.05	0.99	

901892

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		1.2139	1.2834	1.2499	1.4503	1.4943	1.4713	1.4786	AVRG		0.72601		1.3774	9	15	0.05	0.99	
Dibromofluoromethane	0.4766	0.4677	0.4674	0.4605	0.4702	0.4567	0.4631	0.4528	AVRG		2.15348		0.4644	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3758	0.3907	0.3731	0.3786	0.3880	0.3791	0.3832	0.3761	AVRG		2.62751		0.3806	2	15	0.05	0.99	
Trifluorotoluene		0.8856	0.9148	0.7905	0.9040	0.9161	0.9103	0.8820	AVRG		1.12844		0.8862	5	15	0.05	0.99	
Toluene-d8	1.2230	1.2255	1.2302	1.2396	1.2390	1.2312	1.2333	1.2080	AVRG		0.81385		1.2287	1	15	0.05	0.99	
Bromofluorobenzene	0.8058	0.7996	0.8126	0.8158	0.8438	0.8579	0.8431	0.8601	AVRG		1.20508		0.8298	3	15	0.05	0.99	

001823

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-13	10.00	-22	20.00	1	50.00	10	60.00	10	75.00	10	100.0	3
Chloromethane			5.000	0	10.00	-4	20.00	3	50.00	5	60.00	2	75.00	1	100.0	-7
Vinyl Chloride	2.500	3	5.000	-5	10.00	-4	20.00	0	50.00	6	60.00	2	75.00	3	100.0	-4
Bromomethane			5.000	1	10.00	1	20.00	-6	50.00	3	60.00	2	75.00	3	100.0	-3
Chloroethane			5.000	3	10.00	0	20.00	-4	50.00	4	60.00	2	75.00	1	100.0	-7
Trichlorofluoromethane			5.000	-1	10.00	-1	20.00	-6	50.00	4	60.00	3	75.00	4	100.0	-2
Acetone					10.00	17	20.00	15	50.00	-8	60.00	4	75.00	-10	100.0	-18
Freon 113			5.000	28	10.00	5	20.00	-9	50.00	-3	60.00	-4	75.00	-5	100.0	-12
1,1-Dichloroethene			5.000	29	10.00	-4	20.00	-16	50.00	-4	60.00	-1	75.00	-1	100.0	-4
Methylene Chloride					10.00	9	20.00	-2	50.00	0	60.00	1	75.00	-1	100.0	-7
Carbon Disulfide			5.000	11	10.00	7	20.00	-6	50.00	0	60.00	-1	75.00	-3	100.0	-8
MTBE			5.000	-10	10.00	-10	20.00	-9	50.00	5	60.00	7	75.00	9	100.0	7
trans-1,2-Dichloroethene			5.000	-3	10.00	2	20.00	-5	50.00	1	60.00	4	75.00	3	100.0	-1
Vinyl Acetate			5.000	22	10.00	-8	20.00	-4	50.00	-1	60.00	1	75.00	2	100.0	-1
1,1-Dichloroethane			5.000	6	10.00	3	20.00	-5	50.00	0	60.00	1	75.00	0	100.0	-5
2-Butanone					10.00	-1	20.00	-8	50.00	0	60.00	1	75.00	6	100.0	2
2,2-Dichloropropane			5.000	3	10.00	1	20.00	-7	50.00	1	60.00	2	75.00	2	100.0	-2
cis-1,2-Dichloroethene			5.000	-8	10.00	-5	20.00	-6	50.00	4	60.00	8	75.00	5	100.0	2
Chloroform			5.000	7	10.00	6	20.00	-6	50.00	-2	60.00	0	75.00	-2	100.0	-4
Bromochloromethane			5.000	1	10.00	2	20.00	-5	50.00	0	60.00	2	75.00	1	100.0	0
1,1,1-Trichloroethane			5.000	8	10.00	6	20.00	-6	50.00	-2	60.00	1	75.00	-2	100.0	-5
1,1-Dichloropropene			5.000	-9	10.00	-6	20.00	-11	50.00	6	60.00	8	75.00	7	100.0	5
Carbon Tetrachloride			5.000	3	10.00	4	20.00	-9	50.00	2	60.00	2	75.00	0	100.0	-2
1,2-Dichloroethane			5.000	9	10.00	3	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-5
Benzene			5.000	5	10.00	6	20.00	-6	50.00	2	60.00	2	75.00	-2	100.0	-7
Trichloroethene			5.000	-1	10.00	-2	20.00	-8	50.00	2	60.00	4	75.00	4	100.0	1
1,2-Dichloropropane			5.000	-2	10.00	-1	20.00	-5	50.00	3	60.00	4	75.00	2	100.0	1
Bromodichloromethane			5.000	3	10.00	1	20.00	-8	50.00	1	60.00	2	75.00	2	100.0	0
Dibromomethane			5.000	5	10.00	4	20.00	-6	50.00	-1	60.00	1	75.00	0	100.0	-3
4-Methyl-2-Pentanone			5.000	-19	10.00	-9	20.00	-5	50.00	7	60.00	7	75.00	11	100.0	8
cis-1,3-Dichloropropene			5.000	-14	10.00	-7	20.00	-7	50.00	7	60.00	8	75.00	8	100.0	5
Toluene			5.000	0	10.00	2	20.00	-8	50.00	2	60.00	4	75.00	1	100.0	-2
trans-1,3-Dichloropropene			5.000	-13	10.00	-6	20.00	-9	50.00	4	60.00	8	75.00	9	100.0	8
1,1,2-Trichloroethane			5.000	10	10.00	-2	20.00	-6	50.00	0	60.00	1	75.00	0	100.0	-2
2-Hexanone					10.00	-18	20.00	-12	50.00	4	60.00	5	75.00	13	100.0	8
1,3-Dichloropropane			5.000	1	10.00	-1	20.00	-2	50.00	0	60.00	3	75.00	1	100.0	-3
Tetrachloroethene			5.000	2	10.00	2	20.00	-8	50.00	1	60.00	3	75.00	1	100.0	-1
Dibromochloromethane			5.000	-2	10.00	-1	20.00	-7	50.00	0	60.00	6	75.00	4	100.0	1
1,2-Dibromoethane			5.000	-2	10.00	-3	20.00	-10	50.00	3	60.00	4	75.00	6	100.0	3
Chlorobenzene			5.000	3	10.00	4	20.00	-6	50.00	0	60.00	3	75.00	-1	100.0	-4
1,1,1,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-7	50.00	-2	60.00	2	75.00	0	100.0	-3
Ethylbenzene			5.000	-7	10.00	1	20.00	-6	50.00	4	60.00	6	75.00	3	100.0	-3

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	-14	10.00	-7	20.00	3	40.00	-4	100.0	6	120.0	9	150.0	5	200.0	1
o-Xylene			5.000	-20	10.00	-8	20.00	-10	50.00	8	60.00	11	75.00	11	100.0	9
Styrene			5.000	-20	10.00	-6	20.00	-8	50.00	6	60.00	11	75.00	10	100.0	7
Bromoform			5.000	-11	10.00	-6	20.00	-9	50.00	2	60.00	6	75.00	9	100.0	9
Isopropylbenzene			5.000	-17	10.00	-5	20.00	-8	50.00	8	60.00	11	75.00	7	100.0	4
1,1,2,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-2
1,2,3-Trichloropropane			5.000	0	10.00	6	20.00	-5	50.00	-1	60.00	1	75.00	-1	100.0	-1
Propylbenzene			5.000	-7	10.00	3	20.00	-5	50.00	6	60.00	7	75.00	0	100.0	-5
Bromobenzene			5.000	3	10.00	1	20.00	-8	50.00	0	60.00	3	75.00	1	100.0	1
1,3,5-Trimethylbenzene			5.000	-14	10.00	-2	20.00	-7	50.00	7	60.00	10	75.00	5	100.0	2
2-Chlorotoluene			5.000	-2	10.00	3	20.00	-7	50.00	3	60.00	5	75.00	0	100.0	-1
4-Chlorotoluene			5.000	-7	10.00	0	20.00	-8	50.00	4	60.00	7	75.00	2	100.0	1
tert-Butylbenzene			5.000	-18	10.00	-4	20.00	-7	50.00	8	60.00	11	75.00	6	100.0	4
1,2,4-Trimethylbenzene			5.000	-13	10.00	1	20.00	-5	50.00	6	60.00	8	75.00	3	100.0	0
sec-Butylbenzene			5.000	-12	10.00	-1	20.00	-5	50.00	8	60.00	9	75.00	3	100.0	-2
para-Isopropyl Toluene			5.000	-17	10.00	-1	20.00	-5	50.00	8	60.00	10	75.00	5	100.0	1
1,3-Dichlorobenzene			5.000	1	10.00	2	20.00	-7	50.00	1	60.00	4	75.00	-1	100.0	-1
1,4-Dichlorobenzene			5.000	7	10.00	5	20.00	-6	50.00	0	60.00	2	75.00	-3	100.0	-4
n-Butylbenzene			5.000	-15	10.00	-3	20.00	-5	50.00	9	60.00	10	75.00	4	100.0	0
1,2-Dichlorobenzene			5.000	-2	10.00	1	20.00	-6	50.00	1	60.00	5	75.00	1	100.0	0
1,2-Dibromo-3-Chloropropane			5.000	-4	10.00	-5	20.00	-6	50.00	3	60.00	3	75.00	4	100.0	5
1,2,4-Trichlorobenzene			5.000	-16	10.00	-9	20.00	-11	50.00	7	60.00	10	75.00	8	100.0	10
Hexachlorobutadiene			5.000	-4	10.00	2	20.00	-7	50.00	2	60.00	6	75.00	1	100.0	1
Naphthalene			5.000	24	10.00	0	20.00	-8	50.00	0	60.00	1	75.00	0	100.0	0
1,2,3-Trichlorobenzene			5.000	-12	10.00	-7	20.00	-9	50.00	5	60.00	8	75.00	7	100.0	7
Dibromofluoromethane	50.00	3	50.00	1	50.00	1	50.00	-1	50.00	1	50.00	-2	50.00	0	50.00	-2
1,2-Dichloroethane-d4	50.00	-1	50.00	3	50.00	-2	50.00	-1	50.00	2	50.00	0	50.00	1	50.00	-1
Trifluorotoluene			5.000	0	10.00	3	20.00	-11	50.00	2	60.00	3	75.00	3	100.0	0
Toluene-d8	50.00	0	50.00	0	50.00	0	50.00	1	50.00	1	50.00	0	50.00	0	50.00	-2
Bromofluorobenzene	50.00	-3	50.00	-4	50.00	-2	50.00	-2	50.00	2	50.00	3	50.00	2	50.00	4

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 887436786002 Cal Date : 30-OCT-2007 Type : SOIL

ICV 887436786022 (lju22 30-OCT-2007) stds: S7415 (10000X), S7365 (5000X)
ICV 887436786023 (lju23 30-OCT-2007) stds: S7498 (10000X), S7480 (10000X), S7365 (5000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	887436786022	0.7323	0.8362	25.00	28.55	ug/L	14	20	
Chloromethane	887436786022	1.3186	1.2816	25.00	24.30	ug/L	-3	20	
Vinyl Chloride	887436786022	1.3475	1.3148	25.00	24.39	ug/L	-2	20	
Bromomethane	887436786022	0.7740	0.7171	25.00	23.16	ug/L	-7	20	
Chloroethane	887436786022	0.8304	0.7894	25.00	23.77	ug/L	-5	20	
Trichlorofluoromethane	887436786022	1.6659	1.4950	25.00	22.43	ug/L	-10	20	
Acetone	887436786023	0.2309	0.2624	25.00	28.41	ug/L	14	30	m
Freon 113	887436786023	0.8077	0.6899	25.00	21.35	ug/L	-15	20	
1,1-Dichloroethene	887436786023	0.6106	0.6325	25.00	25.89	ug/L	4	20	
Methylene Chloride	887436786023	0.7445	0.6865	25.00	23.05	ug/L	-8	20	
Carbon Disulfide	887436786023	2.3687	2.0577	25.00	21.72	ug/L	-13	20	
MTBE	887436786023	1.5979	1.4954	25.00	23.40	ug/L	-6	20	
trans-1,2-Dichloroethene	887436786023	0.7025	0.6277	25.00	22.34	ug/L	-11	20	
Vinyl Acetate	887436786023	0.9749	0.7761	25.00	19.66	ug/L	-21	30	
1,1-Dichloroethane	887436786023	1.3587	1.2192	25.00	22.43	ug/L	-10	20	
2-Butanone	887436786023	0.2902	0.2603	25.00	22.43	ug/L	-10	30	
2,2-Dichloropropane	887436786023	1.0852	0.9360	25.00	21.56	ug/L	-14	20	
cis-1,2-Dichloroethene	887436786023	0.7219	0.6775	25.00	23.46	ug/L	-6	20	
Chloroform	887436786023	1.2919	1.1633	25.00	22.51	ug/L	-10	20	
Bromochloromethane	887436786023	0.3404	0.3070	25.00	22.55	ug/L	-10	20	
1,1,1-Trichloroethane	887436786023	1.1594	1.0302	25.00	22.21	ug/L	-11	20	
1,1-Dichloropropene	887436786023	0.6507	0.5837	25.00	22.43	ug/L	-10	20	
Carbon Tetrachloride	887436786023	0.6894	0.6184	25.00	22.42	ug/L	-10	20	
1,2-Dichloroethane	887436786023	0.6203	0.5579	25.00	22.48	ug/L	-10	20	
Benzene	887436786023	2.1312	1.9753	25.00	23.17	ug/L	-7	20	
Trichloroethene	887436786023	0.4801	0.4454	25.00	23.20	ug/L	-7	20	
1,2-Dichloropropane	887436786023	0.4922	0.4448	25.00	22.59	ug/L	-10	20	
Bromodichloromethane	887436786023	0.6042	0.5743	25.00	23.76	ug/L	-5	20	
Dibromomethane	887436786023	0.2460	0.2269	25.00	23.06	ug/L	-8	20	
4-Methyl-2-Pentanone	887436786023	0.4361	0.4009	25.00	22.98	ug/L	-8	30	
cis-1,3-Dichloropropene	887436786023	0.7228	0.6784	25.00	23.46	ug/L	-6	20	
Toluene	887436786023	1.3878	1.2611	25.00	22.72	ug/L	-9	20	
trans-1,3-Dichloropropene	887436786023	0.6312	0.5379	25.00	21.31	ug/L	-15	20	
1,1,2-Trichloroethane	887436786023	0.2123	0.1952	25.00	22.99	ug/L	-8	20	
2-Hexanone	887436786023	0.3214	0.2741	25.00	21.32	ug/L	-15	30	
1,3-Dichloropropane	887436786023	0.7509	0.7162	25.00	23.84	ug/L	-5	20	
Tetrachloroethene	887436786023	0.6012	0.5359	25.00	22.29	ug/L	-11	20	
Dibromochloromethane	887436786023	0.4380	0.3989	25.00	22.77	ug/L	-9	20	
1,2-Dibromoethane	887436786023	0.3518	0.3322	25.00	23.60	ug/L	-6	20	
Chlorobenzene	887436786023	1.6375	1.4751	25.00	22.52	ug/L	-10	20	
1,1,1,2-Tetrachloroethane	887436786023	0.5517	0.5050	25.00	22.88	ug/L	-8	20	
Ethylbenzene	887436786023	2.8669	2.7071	25.00	23.61	ug/L	-6	20	
m,p-Xylenes	887436786023	1.1555	1.0919	50.00	47.25	ug/L	-6	20	
o-Xylene	887436786023	1.0750	0.9951	25.00	23.14	ug/L	-7	20	
Styrene	887436786023	1.7558	1.6928	25.00	24.10	ug/L	-4	20	
Bromoform	887436786023	0.3304	0.3051	25.00	23.08	ug/L	-8	20	
Isopropylbenzene	887436786023	4.1123	3.6296	25.00	22.07	ug/L	-12	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	887436786023	0.9552	0.8942	25.00	23.40	ug/L	-6	20	
1,2,3-Trichloropropane	887436786023	0.9762	0.9068	25.00	23.22	ug/L	-7	20	
Propylbenzene	887436786023	5.4966	5.2247	25.00	23.76	ug/L	-5	20	
Bromobenzene	887436786023	1.0959	1.0469	25.00	23.88	ug/L	-4	20	
1,3,5-Trimethylbenzene	887436786023	3.8565	3.7084	25.00	24.04	ug/L	-4	20	
2-Chlorotoluene	887436786023	3.7766	3.5473	25.00	23.48	ug/L	-6	20	
4-Chlorotoluene	887436786023	3.2866	3.0381	25.00	23.11	ug/L	-8	20	
tert-Butylbenzene	887436786023	3.3976	3.2191	25.00	23.69	ug/L	-5	20	
1,2,4-Trimethylbenzene	887436786023	4.0055	3.9444	25.00	24.62	ug/L	-2	20	
sec-Butylbenzene	887436786023	5.3176	5.0474	25.00	23.73	ug/L	-5	20	
para-Isopropyl Toluene	887436786023	4.4774	4.1657	25.00	23.26	ug/L	-7	20	
1,3-Dichlorobenzene	887436786023	2.3135	2.0926	25.00	22.61	ug/L	-10	20	
1,4-Dichlorobenzene	887436786023	2.4155	2.1602	25.00	22.36	ug/L	-11	20	
n-Butylbenzene	887436786023	4.3162	4.1127	25.00	23.82	ug/L	-5	20	
1,2-Dichlorobenzene	887436786023	2.0963	1.9303	25.00	23.02	ug/L	-8	20	
1,2-Dibromo-3-Chloropropane	887436786023	0.1863	0.1720	25.00	23.09	ug/L	-8	20	
1,2,4-Trichlorobenzene	887436786023	1.4140	1.2865	25.00	22.75	ug/L	-9	20	
Hexachlorobutadiene	887436786023	0.9848	0.9300	25.00	23.61	ug/L	-6	20	
Naphthalene	887436786023	2.9195	2.7580	25.00	22.92	ug/L	-8	20	
1,2,3-Trichlorobenzene	887436786023	1.3774	1.2527	25.00	22.74	ug/L	-9	20	

m=manual integration

887436786002 ICVs

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : 30PPB IDF : 1.0
Seqnum : 887441238002.1 File : lk202 Time : 02-NOV-2007 10:25
Cal : 887436786002 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (16670X), S7531 (16670X), S7365 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7323	0.7405	30.00	30.34	ug/L	1	20	0.0500	
Chloromethane	1.3186	1.3999	30.00	31.85	ug/L	6	20	0.1000	
Vinyl Chloride	1.3475	1.4331	30.00	31.91	ug/L	6	20	0.0500	
Bromomethane	0.7740	0.7782	30.00	30.16	ug/L	1	20	0.0500	
Chloroethane	0.8304	0.8389	30.00	30.31	ug/L	1	20	0.0500	
Trichlorofluoromethane	1.6659	1.3107	30.00	23.60	ug/L	**-21**	20	0.0500	c- ***
Acetone	0.2309	0.2940	30.00	38.19	ug/L	27	30	0.0500	m
Freon 113	0.8077	0.6943	30.00	25.79	ug/L	-14	20	0.0500	
1,1-Dichloroethene	0.6106	0.5644	30.00	27.73	ug/L	-8	20	0.0500	
Methylene Chloride	0.7445	0.8153	30.00	32.85	ug/L	10	20	0.0500	
Carbon Disulfide	2.3687	2.4265	30.00	30.73	ug/L	2	20	0.0500	
MTBE	1.5979	1.8648	30.00	35.01	ug/L	17	20	0.0500	
trans-1,2-Dichloroethene	0.7025	0.7045	30.00	30.08	ug/L	0	20	0.0500	
Vinyl Acetate	0.9749	1.1300	30.00	31.89	ug/L	6	30	0.0500	
1,1-Dichloroethane	1.3587	1.3630	30.00	30.09	ug/L	0	20	0.1000	
2-Butanone	0.2902	0.3538	30.00	36.58	ug/L	22	30	0.0500	
2,2-Dichloropropane	1.0852	1.0527	30.00	29.10	ug/L	-3	20	0.0500	
cis-1,2-Dichloroethene	0.7219	0.7483	30.00	31.10	ug/L	4	20	0.0500	
Chloroform	1.2919	1.2171	30.00	28.26	ug/L	-6	20	0.0500	
Bromochloromethane	0.3404	0.3305	30.00	29.13	ug/L	-3	20	0.0500	
1,1,1-Trichloroethane	1.1594	1.0102	30.00	26.14	ug/L	-13	20	0.0500	
1,1-Dichloropropene	0.6507	0.6347	30.00	29.26	ug/L	-2	20	0.0500	
Carbon Tetrachloride	0.6894	0.5488	30.00	23.88	ug/L	-20	20	0.0500	
1,2-Dichloroethane	0.6203	0.5471	30.00	26.46	ug/L	-12	20	0.0500	
Benzene	2.1312	2.1374	30.00	30.09	ug/L	0	20	0.0500	
Trichloroethene	0.4801	0.4681	30.00	29.25	ug/L	-2	20	0.0500	
1,2-Dichloropropane	0.4922	0.5109	30.00	31.14	ug/L	4	20	0.0500	
Bromodichloromethane	0.6042	0.5525	30.00	27.43	ug/L	-9	20	0.0500	
Dibromomethane	0.2460	0.2331	30.00	28.43	ug/L	-5	20	0.0500	
4-Methyl-2-Pentanone	0.4361	0.5005	30.00	34.42	ug/L	15	30	0.0500	
cis-1,3-Dichloropropene	0.7228	0.7618	30.00	31.62	ug/L	5	20	0.0500	
Toluene	1.3878	1.4257	30.00	30.82	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.6312	0.6542	30.00	31.10	ug/L	4	20	0.0500	
1,1,2-Trichloroethane	0.2123	0.2181	30.00	30.82	ug/L	3	20	0.0500	
2-Hexanone	0.3214	0.3605	30.00	33.65	ug/L	12	30	0.0500	
1,3-Dichloropropane	0.7509	0.7461	30.00	29.81	ug/L	-1	20	0.0500	
Tetrachloroethene	0.6012	0.5195	30.00	25.92	ug/L	-14	20	0.0500	
Dibromochloromethane	0.4380	0.3649	30.00	24.99	ug/L	-17	20	0.0500	
1,2-Dibromoethane	0.3518	0.3573	30.00	30.47	ug/L	2	20	0.0500	
Chlorobenzene	1.6375	1.5493	30.00	28.38	ug/L	-5	20	0.3000	
1,1,1,2-Tetrachloroethane	0.5517	0.4674	30.00	25.41	ug/L	-15	20	0.0500	
Ethylbenzene	2.8669	2.8921	30.00	30.26	ug/L	1	20	0.0500	
m,p-Xylenes	1.1555	1.1788	60.00	61.21	ug/L	2	20	0.0500	
o-Xylene	1.0750	1.0980	30.00	30.64	ug/L	2	20	0.0500	
Styrene	1.7558	1.8097	30.00	30.92	ug/L	3	20	0.0500	
Bromoform	0.3304	0.2814	30.00	25.55	ug/L	-15	20	0.1000	
Isopropylbenzene	4.1123	4.5606	30.00	33.27	ug/L	11	20	0.0500	
1,1,2,2-Tetrachloroethane	0.9552	1.0473	30.00	32.89	ug/L	10	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9762	1.0484	30.00	32.22	ug/L	7	20	0.0500	
Propylbenzene	5.4966	6.1475	30.00	33.55	ug/L	12	20	0.0500	
Bromobenzene	1.0959	1.0594	30.00	29.00	ug/L	-3	20	0.0500	
1,3,5-Trimethylbenzene	3.8565	4.2471	30.00	33.04	ug/L	10	20	0.0500	
2-Chlorotoluene	3.7766	4.0099	30.00	31.85	ug/L	6	20	0.0500	
4-Chlorotoluene	3.2866	3.6340	30.00	33.17	ug/L	11	20	0.0500	
tert-Butylbenzene	3.3976	3.5999	30.00	31.79	ug/L	6	20	0.0500	
1,2,4-Trimethylbenzene	4.0055	4.3665	30.00	32.70	ug/L	9	20	0.0500	
sec-Butylbenzene	5.3176	5.7165	30.00	32.25	ug/L	8	20	0.0500	
para-Isopropyl Toluene	4.4774	4.8217	30.00	32.31	ug/L	8	20	0.0500	
1,3-Dichlorobenzene	2.3135	2.3204	30.00	30.09	ug/L	0	20	0.0500	
1,4-Dichlorobenzene	2.4155	2.4153	30.00	30.00	ug/L	0	20	0.0500	
n-Butylbenzene	4.3162	4.7759	30.00	33.20	ug/L	11	20	0.0500	
1,2-Dichlorobenzene	2.0963	2.1265	30.00	30.43	ug/L	1	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1863	0.1985	30.00	31.97	ug/L	7	20	0.0500	
1,2,4-Trichlorobenzene	1.4140	1.5453	30.00	32.79	ug/L	9	20	0.0500	
Hexachlorobutadiene	0.9848	0.9360	30.00	28.51	ug/L	-5	20	0.0500	
Naphthalene	2.9195	3.3532	30.00	31.94	ug/L	6	20	0.0500	
1,2,3-Trichlorobenzene	1.3774	1.4343	30.00	31.24	ug/L	4	20	0.0500	
Dibromofluoromethane	0.4644	0.4324	50.00	46.56	ug/L	-7	20	0.0500	
1,2-Dichloroethane-d4	0.3806	0.3363	50.00	44.18	ug/L	-12	20	0.0500	
Trifluorotoluene	0.8862	0.8535	30.00	28.89	ug/L	-4	20	0.0500	
Toluene-d8	1.2287	1.2626	50.00	51.38	ug/L	3	20	0.0500	
Bromofluorobenzene	0.8298	0.9376	50.00	56.49	ug/L	13	20	0.0500	

ISTD (ICAL lju18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	382859	330304	-13.73	9.86	9.85	-0.01
1,4-Difluorobenzene	557566	502179	-9.93	10.71	10.71	0.00
Chlorobenzene-d5	546470	507882	-7.06	13.84	13.84	0.00
1,4-Dichlorobenzene-d4	381863	323766	-15.21	16.35	16.35	0.00

Analyst: WNH Date: 11/06/07 Reviewer: JCP Date: 11/06/07

-=low bias c=CCV m=manual integration

887441238002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : 35PPB IDF : 1.0
Seqnum : 887445431007.1 File : lk507 Time : 05-NOV-2007 12:29
Cal : 887436786002 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (14290X), S7531 (14290X), S7365 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7323	0.7704	35.00	36.82	ug/L	5	20	0.0500	
Chloromethane	1.3186	1.4160	35.00	37.58	ug/L	7	20	0.1000	
Vinyl Chloride	1.3475	1.4722	35.00	38.24	ug/L	9	20	0.0500	
Bromomethane	0.7740	0.7813	35.00	35.33	ug/L	1	20	0.0500	
Chloroethane	0.8304	0.8993	35.00	37.90	ug/L	8	20	0.0500	
Trichlorofluoromethane	1.6659	1.4219	35.00	29.87	ug/L	-15	20	0.0500	
Acetone	0.2309	0.2330	35.00	35.32	ug/L	1	30	0.0500	
Freon 113	0.8077	0.7642	35.00	33.11	ug/L	-5	20	0.0500	
1,1-Dichloroethene	0.6106	0.6220	35.00	35.65	ug/L	2	20	0.0500	
Methylene Chloride	0.7445	0.9340	35.00	43.91	ug/L	**25**	20	0.0500	c+ ***
Carbon Disulfide	2.3687	2.5772	35.00	38.08	ug/L	9	20	0.0500	
MTBE	1.5979	1.9283	35.00	42.24	ug/L	**21**	20	0.0500	c+ ***
trans-1,2-Dichloroethene	0.7025	0.7472	35.00	37.22	ug/L	6	20	0.0500	
Vinyl Acetate	0.9749	1.1875	35.00	38.36	ug/L	10	30	0.0500	
1,1-Dichloroethane	1.3587	1.4202	35.00	36.58	ug/L	5	20	0.1000	
2-Butanone	0.2902	0.3440	35.00	41.50	ug/L	19	30	0.0500	
2,2-Dichloropropane	1.0852	1.1101	35.00	35.80	ug/L	2	20	0.0500	
cis-1,2-Dichloroethene	0.7219	0.7830	35.00	37.96	ug/L	8	20	0.0500	
Chloroform	1.2919	1.2537	35.00	33.97	ug/L	-3	20	0.0500	
Bromochloromethane	0.3404	0.3419	35.00	35.16	ug/L	0	20	0.0500	
1,1,1-Trichloroethane	1.1594	1.0764	35.00	32.49	ug/L	-7	20	0.0500	
1,1-Dichloropropene	0.6507	0.6949	35.00	37.38	ug/L	7	20	0.0500	
Carbon Tetrachloride	0.6894	0.5935	35.00	30.13	ug/L	-14	20	0.0500	
1,2-Dichloroethane	0.6203	0.5583	35.00	31.50	ug/L	-10	20	0.0500	
Benzene	2.1312	2.2252	35.00	36.54	ug/L	4	20	0.0500	
Trichloroethene	0.4801	0.4986	35.00	36.35	ug/L	4	20	0.0500	
1,2-Dichloropropane	0.4922	0.5318	35.00	37.81	ug/L	8	20	0.0500	
Bromodichloromethane	0.6042	0.5707	35.00	33.06	ug/L	-6	20	0.0500	
Dibromomethane	0.2460	0.2376	35.00	33.80	ug/L	-3	20	0.0500	
4-Methyl-2-Pentanone	0.4361	0.5078	35.00	40.76	ug/L	16	30	0.0500	
cis-1,3-Dichloropropene	0.7228	0.7906	35.00	38.28	ug/L	9	20	0.0500	
Toluene	1.3878	1.4693	35.00	37.06	ug/L	6	20	0.0500	
trans-1,3-Dichloropropene	0.6312	0.6792	35.00	37.66	ug/L	8	20	0.0500	
1,1,2-Trichloroethane	0.2123	0.2250	35.00	37.09	ug/L	6	20	0.0500	
2-Hexanone	0.3214	0.3819	35.00	41.59	ug/L	19	30	0.0500	
1,3-Dichloropropane	0.7509	0.7948	35.00	37.04	ug/L	6	20	0.0500	
Tetrachloroethene	0.6012	0.5625	35.00	32.75	ug/L	-6	20	0.0500	
Dibromochloromethane	0.4380	0.4024	35.00	32.16	ug/L	-8	20	0.0500	
1,2-Dibromoethane	0.3518	0.3691	35.00	36.72	ug/L	5	20	0.0500	
Chlorobenzene	1.6375	1.6575	35.00	35.43	ug/L	1	20	0.3000	
1,1,1,2-Tetrachloroethane	0.5517	0.5059	35.00	32.09	ug/L	-8	20	0.0500	
Ethylbenzene	2.8669	3.0967	35.00	37.81	ug/L	8	20	0.0500	
m,p-Xylenes	1.1555	1.2708	70.00	76.98	ug/L	10	20	0.0500	
o-Xylene	1.0750	1.2037	35.00	39.19	ug/L	12	20	0.0500	
Styrene	1.7558	1.9465	35.00	38.80	ug/L	11	20	0.0500	
Bromoform	0.3304	0.3133	35.00	33.19	ug/L	-5	20	0.1000	
Isopropylbenzene	4.1123	5.0133	35.00	42.67	ug/L	**22**	20	0.0500	c+ ***
1,1,2,2-Tetrachloroethane	0.9552	1.1253	35.00	41.23	ug/L	18	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9762	1.1246	35.00	40.32	ug/L	15	20	0.0500	
Propylbenzene	5.4966	6.6623	35.00	42.42	ug/L	**21**	20	0.0500	c+ ***
Bromobenzene	1.0959	1.1355	35.00	36.27	ug/L	4	20	0.0500	
1,3,5-Trimethylbenzene	3.8565	4.6059	35.00	41.80	ug/L	19	20	0.0500	
2-Chlorotoluene	3.7766	4.2906	35.00	39.76	ug/L	14	20	0.0500	
4-Chlorotoluene	3.2866	3.8442	35.00	40.94	ug/L	17	20	0.0500	
tert-Butylbenzene	3.3976	4.0231	35.00	41.44	ug/L	18	20	0.0500	
1,2,4-Trimethylbenzene	4.0055	4.6788	35.00	40.88	ug/L	17	20	0.0500	
sec-Butylbenzene	5.3176	6.3328	35.00	41.68	ug/L	19	20	0.0500	
para-Isopropyl Toluene	4.4774	5.2477	35.00	41.02	ug/L	17	20	0.0500	
1,3-Dichlorobenzene	2.3135	2.4548	35.00	37.14	ug/L	6	20	0.0500	
1,4-Dichlorobenzene	2.4155	2.5117	35.00	36.39	ug/L	4	20	0.0500	
n-Butylbenzene	4.3162	5.1733	35.00	41.95	ug/L	20	20	0.0500	
1,2-Dichlorobenzene	2.0963	2.2382	35.00	37.37	ug/L	7	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1863	0.2252	35.00	42.31	ug/L	**21**	20	0.0500	c+ ***
1,2,4-Trichlorobenzene	1.4140	1.6125	35.00	39.91	ug/L	14	20	0.0500	
Hexachlorobutadiene	0.9848	1.0439	35.00	37.10	ug/L	6	20	0.0500	
Naphthalene	2.9195	3.7148	35.00	40.32	ug/L	15	20	0.0500	
1,2,3-Trichlorobenzene	1.3774	1.5028	35.00	38.19	ug/L	9	20	0.0500	
Dibromofluoromethane	0.4644	0.4270	50.00	45.98	ug/L	-8	20	0.0500	
1,2-Dichloroethane-d4	0.3806	0.3411	50.00	44.81	ug/L	-10	20	0.0500	
Trifluorotoluene	0.8862	0.9051	35.00	35.75	ug/L	2	20	0.0500	
Toluene-d8	1.2287	1.2363	50.00	50.31	ug/L	1	20	0.0500	
Bromofluorobenzene	0.8298	0.9276	50.00	55.89	ug/L	12	20	0.0500	

ISTD (ICAL lju18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	382859	352575	-7.91	9.86	9.86	0.00
1,4-Difluorobenzene	557566	534622	-4.12	10.71	10.71	0.00
Chlorobenzene-d5	546470	520798	-4.70	13.84	13.84	0.00
1,4-Dichlorobenzene-d4	381863	330686	-13.40	16.35	16.35	0.00

Analyst: WNH Date: 11/06/07 Reviewer: JCP Date: 11/06/07

+=high bias c=CCV

887445431007.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 887441238

Date : 11/02/07 Reference : lju18
Sequence : MSVOA12 lk2 Analyzed : 10/30/07 19:51

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	382859	9.86	557566	10.71	546470	13.84	381863	16.35
		LOWER LIMIT	191430	9.36	278783	10.21	273235	13.34	190932	15.85
		UPPER LIMIT	765718	10.36	1115132	11.21	1092940	14.34	763726	16.85
002	CCV	30PPB	330304	9.85	502179	10.71	507882	13.84	323766	16.35
003	BS	QC413435	316152	9.86	474724	10.71	482364	13.84	311741	16.35
004	BSD	QC413436	312422	9.86	471472	10.71	474566	13.84	303165	16.35
006	BLANK	QC413434	295445	9.86	481341	10.71	498915	13.84	283335	16.35
007	SAMPLE	198685-002	235836	9.86	385997	10.71	422535	13.84	274081	16.35
009	SAMPLE	198778-002	385399	9.86	620051	10.71	642649	13.84	391378	16.35
010	SAMPLE	198880-002	353259	9.86	572576	10.71	594368	13.84	352114	16.35
011	SAMPLE	198880-001	296169	9.86	453546	10.71	541239	13.84	331020	16.35
012	SAMPLE	198818-006	271936	9.85	426049	10.71	511831	13.84	340076	16.35
013	SAMPLE	198818-001	311207	9.86	459217	10.71	545636	13.84	337585	16.34
014	SAMPLE	198818-002	293633	9.86	450617	10.71	539250	13.84	360339	16.34
016	PREPBLK	QC413524	368168	9.85	579859	10.71	596122	13.84	367904	16.35
017	SAMPLE	198778-001	361362	9.86	575917	10.71	597739	13.84	372200	16.35
018	SAMPLE	198829-001	379391	9.85	587157	10.71	620053	13.84	376909	16.35
019	SAMPLE	198889-001	371612	9.85	580087	10.71	595591	13.84	362049	16.35
020	MSS	198818-004	359174	9.86	566670	10.71	610273	13.84	368420	16.35
021	MS	QC413552	386967	9.86	613078	10.71	657249	13.84	389457	16.35
022	MSD	QC413553	425147	9.86	675548	10.71	691297	13.84	375787	16.35
024	SAMPLE	198889-002	194030	9.86	328644	10.71	336930	13.84	194183	16.35

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 887445431

Date : 11/05/07
Sequence : MSVOA12 lk5

Reference : lju18
Analyzed : 10/30/07 19:51

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	382859	9.86	557566	10.71	546470	13.84	381863	16.35
		LOWER LIMIT	191430	9.36	278783	10.21	273235	13.34	190932	15.85
		UPPER LIMIT	765718	10.36	1115132	11.21	1092940	14.34	763726	16.85
007	CCV	35PPB	352575	9.86	534622	10.71	520798	13.84	330686	16.35
008	LCS	QC413654	364068	9.85	556993	10.71	531118	13.84	331348	16.35
010	BLANK	QC413653	307517	9.86	489154	10.71	488382	13.84	282687	16.35
011	PREPBLK	QC413782	298509	9.85	465498	10.71	476380	13.84	296963	16.35
012	SAMPLE	198889-001	309867	9.86	515342	10.71	490495	13.84	278578	16.34
013	SAMPLE	198797-005	280113	9.85	441140	10.71	469843	13.84	304201	16.35
014	SAMPLE	198797-006	271241	9.85	418015	10.71	434155	13.84	284048	16.35
015	SAMPLE	198797-007	259072	9.85	384707	10.71	425291	13.84	297182	16.35
016	SAMPLE	198818-001	296120	9.86	450946	10.71	512329	13.84	322318	16.35
017	SAMPLE	198880-001	336423	9.86	528157	10.71	611314	13.84	346777	16.35
018	SAMPLE	198818-002	378767	9.86	594309	10.71	623017	13.84	364768	16.35
019	SAMPLE	198843-002	381252	9.86	611722	10.71	604252	13.84	363606	16.34
020	MSS	198889-001	390037	9.86	636791	10.71	601132	13.84	340256	16.35
021	SAMPLE	198881-017	550032	9.86	898854	10.71	1013753	13.84	1154983 *	16.36
022	SAMPLE	198908-009	551483	9.86	863985	10.71	817186	13.84	517434	16.35
023	SAMPLE	198908-010	490975	9.86	785313	10.71	807578	13.84	493935	16.35
024	SAMPLE	198908-011	547727	9.86	898112	10.71	851521	13.84	502516	16.35
025	MS	QC413789	471004	9.86	733190	10.71	687541	13.84	402606	16.35
026	MSD	QC413790	556148	9.86	874692	10.71	824503	13.84	477863	16.35

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887436786

Instrument : MSVOA12
Method : EPA 8260B

Begun : 10/30/07 07:46
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	lju01	X	IB			10/30/07 07:46	1.0	1
002	lju02	X	BFB			10/30/07 10:13	1.0	2
003	lju03	X	25PPB			10/30/07 10:42	1.0	3 4 1
004	lju04	X	QC412874	Soil	131099	10/30/07 11:23	1.0	5 6 7 8 1
005	lju05	X	QC412875	Soil	131099	10/30/07 11:55	1.0	5 6 7 8 1
006	lju06	X	BFB			10/30/07 12:56	1.0	2
007	lju07	X	30PPB			10/30/07 13:23	1.0	3 4 1
008	lju08	X	QC412874	Soil	131099	10/30/07 13:55	1.0	5 6 7 8 1
009	lju09	X	QC412875	Soil	131099	10/30/07 14:27	1.0	5 6 7 8 1
010	lju10	TUN	BFB			10/30/07 15:38	1.0	2
011	lju11	X	LP			10/30/07 16:05	1.0	1
012	lju12	X	IB			10/30/07 16:37	1.0	1
013	lju13	IB	CALIB			10/30/07 17:10	1.0	1
014	lju14	ICAL	2.5PPB			10/30/07 17:42	1.0	9 10 1
015	lju15	ICAL	5PPB			10/30/07 18:14	1.0	9 10 1
016	lju16	ICAL	10PPB			10/30/07 18:47	1.0	9 10 1
017	lju17	ICAL	20PPB			10/30/07 19:19	1.0	3 11 1
018	lju18	ICAL	50PPB			10/30/07 19:51	1.0	3 11 1
019	lju19	ICAL	60PPB			10/30/07 20:23	1.0	3 11 1
020	lju20	ICAL	75PPB			10/30/07 20:56	1.0	3 11 1
021	lju21	ICAL	100PPB			10/30/07 21:28	1.0	3 11 1
022	lju22	ICV	25PPB			10/30/07 22:01	1.0	6 1
023	lju23	ICV	25PPB			10/30/07 22:33	1.0	7 5 1
024	lju24	X	IB			10/30/07 23:05	1.0	1
025	lju25	X	IB			10/30/07 23:38	1.0	1
026	lju26	X	IB			10/31/07 00:10	1.0	1

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

Standards used: 1=S7365 2=S6497 3=S7417 4=S7296 5=S7480 6=S7415 7=S7498 8=S7000 9=S7425 10=S7424 11=S7531

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887441238

Instrument : MSVOA12
Method : EPA 8260B

Begun : 11/02/07 09:58
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	lk201	TUN	BFB				11/02/07 09:58	1.0	1
002	lk202	CCV	30PPB				11/02/07 10:25	1.0	2 3 4
003	lk203	BS	QC413435		Soil	131245	11/02/07 10:57	1.0	5 6 7 4
004	lk204	BSD	QC413436		Soil	131245	11/02/07 11:30	1.0	5 6 7 4
005	lk205	X	IB				11/02/07 12:02	1.0	4
006	lk206	BLANK	QC413434		Soil	131245	11/02/07 12:45	1.0	4
007	lk207	SAMPLE	198685-002	M	Oil	131245	11/02/07 13:17	20000	8 4
008	lk208	X	IB				11/02/07 13:49	1.0	4
009	lk209	SAMPLE	198778-002		Miscell.	131245	11/02/07 14:22	0.9434	4
010	lk210	SAMPLE	198880-002		Soil	131245	11/02/07 14:54	0.9804	4
011	lk211	SAMPLE	198880-001	M	Soil	131245	11/02/07 15:26	250.0	8 4
012	lk212	SAMPLE	198818-006	M	Soil	131245	11/02/07 15:59	25.0	8 4
013	lk213	SAMPLE	198818-001	M	Soil	131245	11/02/07 16:31	250.0	8 4
014	lk214	SAMPLE	198818-002	M	Soil	131245	11/02/07 17:03	400.0	8 4
015	lk215	X	IB				11/02/07 17:36	1.0	4
016	lk216	PREPBLK	QC413524	M	Soil	131245	11/02/07 18:08	25.0	9 4
017	lk217	SAMPLE	198778-001	M	Miscell.	131245	11/02/07 18:41	1250	8 4
018	lk218	SAMPLE	198829-001	M	Soil	131245	11/02/07 19:13	25.0	9 4
019	lk219	SAMPLE	198889-001	M	Miscell.	131245	11/02/07 19:45	25.0	9 4
020	lk220	MSS	198818-004	M	Soil	131245	11/02/07 20:18	500.0	9 4
021	lk221	MS	QC413552	M	Soil	131245	11/02/07 20:50	500.0	5 7 6 8 4
022	lk222	MSD	QC413553	M	Soil	131245	11/02/07 21:23	500.0	5 7 6 8 4
023	lk223	X	IB				11/02/07 21:55	1.0	4
024	lk224	SAMPLE	198889-002	M	Miscell.	131245	11/02/07 22:27	5000	9 4
025	lk225	X	IB				11/02/07 23:00	1.0	4
026	lk226	X	12A				11/02/07 23:32	1.0	4
027	lk227	X	12B				11/03/07 00:04	1.0	4
028	lk228	X	IB				11/03/07 00:37	1.0	4

Analyst: WNH Date: 11/05/07 Reviewer: LW Date: 11/05/07

Standards used: 1=S6497 2=S7417 3=S7531 4=S7365 5=S7480 6=S7415 7=S7498 8=S7000 9=S7590

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887445431

Instrument : MSVOA12
Method : EPA 8260B
Begun : 11/05/07 07:51
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	lk501	X	IB				11/05/07 07:51	1.0	1	
002	lk502	X	BFB				11/05/07 09:46	1.0	2	
003	lk503	X	35PPB				11/05/07 10:15	1.0	3 4 1	76:ETHANOL=650000
004	lk504	X	IB				11/05/07 10:47	1.0	1	
005	lk505	X	IB				11/05/07 11:20	1.0	1	
006	lk506	TUN	BFB				11/05/07 12:01	1.0	2	
007	lk507	CCV	35PPB				11/05/07 12:29	1.0	3 4 1	
008	lk508	LCS	QC413654		Soil	131304	11/05/07 13:33	1.0	5 6 7 1	
009	lk509	X	IB				11/05/07 14:06	1.0	1	
010	lk510	BLANK	QC413653		Soil	131304	11/05/07 14:38	1.0	1	
011	lk511	PREPBLK	QC413782	M	Soil	131304	11/05/07 15:10	25.0	8 1	
012	lk512	SAMPLE	198889-001		Miscell.	131304	11/05/07 15:43	2.500	1	
013	lk513	SAMPLE	198797-005	M	Soil	131304	11/05/07 16:15	25.0	8 1	
014	lk514	SAMPLE	198797-006	M	Soil	131304	11/05/07 16:47	33.33	8 1	
015	lk515	SAMPLE	198797-007	M	Soil	131304	11/05/07 17:20	62.50	8 1	
016	lk516	SAMPLE	198818-001	M	Soil	131304	11/05/07 17:52	200.0	8 1	
017	lk517	SAMPLE	198880-001	M	Soil	131304	11/05/07 18:25	250.0	8 1	
018	lk518	SAMPLE	198818-002	M	Soil	131304	11/05/07 18:57	400.0	8 1	
019	lk519	SAMPLE	198843-002	M	Soil	131304	11/05/07 19:30	625.0	8 1	
020	lk520	MSS	198889-001		Miscell.	131304	11/05/07 20:02	1.0	1	
021	lk521	SAMPLE	198881-017		Soil	131304	11/05/07 20:34	0.9434	1	1:PCA=210
022	lk522	SAMPLE	198908-009		Soil	131304	11/05/07 21:06	0.9259	1	
023	lk523	SAMPLE	198908-010		Soil	131304	11/05/07 21:39	0.9615	1	
024	lk524	SAMPLE	198908-011		Soil	131304	11/05/07 22:11	0.9259	1	
025	lk525	MS	QC413789		Miscell.	131304	11/05/07 22:44	1.0	5 7 6 1	1:MTLNCL=100
026	lk526	MSD	QC413790		Miscell.	131304	11/05/07 23:16	1.0	5 7 6 1	
027	lk527	X	IB				11/05/07 23:48	1.0	1	
028	lk528	X	12A				11/06/07 00:21	1.0	1	
029	lk529	X	12B				11/06/07 00:53	1.0	1	
030	lk530	X	IB				11/06/07 01:25	1.0	1	

WNH 11/05/07 : Sequence restarted at LK506 due to IS needing refill

WNH 11/06/07 : Changed LK512 to regular sample and LK520 to the MSS as the 1x rerun.

Analyst: WNH Date: 11/06/07 Reviewer: LW Date: 11/06/07

Standards used: 1=S7365 2=S6497 3=S7417 4=S7531 5=S7480 6=S7415 7=S7498 8=S7590

REPORTING SUMMARY FOR 198880 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF
198880-001	MSVOA12	M	11/02/07 03:58	5000
198880-001	MSVOA12	M	11/02/07 15:26	250.0
198880-001	MSVOA12	M	11/05/07 18:25	250.0
198880-002	MSVOA12	N	11/02/07 14:54	0.9804
QC413261	MSVOA12	N	11/01/07 15:43	1.0
QC413262	MSVOA12	N	11/01/07 14:06	1.0
QC413288	MSVOA12	M	11/01/07 15:11	25.0
QC413337	MSVOA12	N	11/02/07 02:21	1.136
QC413338	MSVOA12	N	11/02/07 02:53	1.111
QC413342	MSVOA12	N	11/01/07 19:53	1.0
QC413434	MSVOA12	N	11/02/07 12:45	1.0
QC413435	MSVOA12	N	11/02/07 10:57	1.0
QC413436	MSVOA12	N	11/02/07 11:30	1.0
QC413524	MSVOA12	M	11/02/07 18:08	25.0
QC413552	MSVOA12	M	11/02/07 20:50	500.0
QC413553	MSVOA12	M	11/02/07 21:23	500.0
QC413653	MSVOA12	N	11/05/07 14:38	1.0
QC413654	MSVOA12	N	11/05/07 13:33	1.0
QC413782	MSVOA12	M	11/05/07 15:10	25.0

REPORTING SUMMARY FOR 198880 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF	
QC413789	MSVOA12	N	11/05/07 22:44	1.0	
QC413790	MSVOA12	N	11/05/07 23:16	1.0	

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/2/07

Prepped by: [illegible]

8260 5030

131245 / 131244

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	~~198889-1~~	~~2.0~~ 2.2	A			~~25X~~		11/7
2	198685-002	0.0025	↓			RR 2000X of 10X HC NTA		11/2R *
3	198778-001	0.004	↓			RR 1250X		11/2
4	002	5.3	↓			RR 1X		11/2
5	198880-002	5.1	A				11/14	
6								
7	198889-001	10.0	A	X		25X		
8	002	10.0	↓	X		5000X screen		
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198529-1	2.8	C	X		MC 25X, mp xy > CR		11/5
2	198818-1	0.020	↓			MC 250X, HC		11/6
3	-2	0.0125	↓			400X, HC, NT		
4	-4	~~0.010~~	G			500X, HC, NT MSS/MS/MSD ~~-6 6/7~~		
5	-6	0.200	C			25X		
6	198880-001	0.020	B			RR 250X OD	11/7	
7	198903-001	5.7	A		6	MSS		
8	001	6.6	B		↓	MS		
9	001	5.3	C		↓	MSD		
10	002	6.4	A		↓			
11	003	6.2	↓		↓			
12	006	5.0	↓		↓			
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/2/07

Prepped by: [illegible]

8260 5030

131245 / 131244

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	195889-1	5.0/10.0	A			25x		11/7
2	198685-002	0.0025				RR 2000x of 10x HC NT↑		11/2 R *
3	198778-001	0.004				RR 1250x		11/2
4	002	5.3				RR 1x		11/2
5	198880-002	5.1	A				11/8	
6								
7	198889-001	10.0	A	X		25X		
8	002	10.0		X		5000X screen		
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	195529-1	2.8	C	X		MC 25x, mp xy > CR		11/5
2	198815-1	0.020				MC 250x, HC		11/6
3	-2	0.0125				400x, HC, NT		
4	-4	0.040	G			500x, HC, NT MSS/MS/MSD		
5	-6	0.200	C			25x		
6	198880-001	0.020	B			RR 250x OD	11/7	
7	198903-001	5.7	A		6	MSS		
8	001	6.6	B			MS		
9	001	5.3	C			MSD		
10	002	6.4	A					
11	003	6.2						
12	006	5.0						
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/2/07

Prepped by: Liz

131244

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198797-5	10.0	A	X	6	all MS 602-10 screen 1000X		
2	-6	10.0		X		-12 1000X		
3	-7	10.0		X		-15 2500X		
4	198900-1	5.1	A					
5	-2	5.2						
6	-3	5.0						
7	-4	5.2						
8	~~198759-1~~		~~E~~					
9	198843-1	5.4	A					
10	-2	10.0		X		~~1000X~~ screen		
11	198837-1	5.2	B			~~MS/MSD~~ Re 11/2		
12	198889-1	10.0	A	~~X~~		25X on MS 12		
13	-2	10.0		X		~~1000X~~ screen		
14	~~198851-3~~							
15	~~-4~~ Re 11/2							
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26	198538-4		B			Freezer Blank KR		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS must run 25X	hold date	due date
1	198818-6	L			6	no more sample on MS 12		
2	198829-4	4.9	B					
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	198850-2	5.1	A	X	X 12	~~screen 1000X~~ ✓ not encore		
14	198903-1			X	X	screen 1000X		
15	-2			X	X			
16	-3			X	X			
17	-6			X	X			

F:/home/terri/templates/Soilprepsheet.xls

PROJECT 5035 Prep Log

Notebook No. BK 1860

Continued From Page

Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate std. Vol. (mL)	Comments
10/25/07 Jic	BLank	5.0	5.0	CU319	S7000	0.005	
	198634-2 B	6.0	6.0			0.006	
	+4	6.1	6.1			0.0061	
	+9	6.2	6.2			0.0062	
	198642-9	4.9	4.9			0.0049	
	+10	5.6	5.6			0.0056	
10/26/07 Jic	Blank	5.0	5.0	CU319	S7000	0.005	
	198672-2 C	4.3	4.3			0.0043	
	198683-6 B	5.3	5.3			0.0053	
10/30/07 cwj	Blank	5.0	5.0	CU319	S7000	0.005 mL	
	198718-7 B	6.4	6.4			0.0064	
	-8	5.6	5.6			0.0056	
10/31/07 Jic	Blank	5.0	5.0	CU319	S7000	0.005	
	198718-12 B	5.1	5.1			0.0051	
	198764-11	5.5	5.5			0.0055	
10/ 11/1/07 Jic	Blank	5.0	5.0	CU319	S7000	0.005	
	198764-6 C	3.5	3.5			0.0035	
	198818-1	5.8	5.8			0.0058	
	-2	6.0	6.0			0.006	
	-4 G	5.5	5.5			0.0055	
	-6 C	5.9	5.9			0.0059	
	198880-1 B	6.5	6.5			0.0065	
11/2/07 Jic	Blank see 000 page #230 of MS VOA Extraction Log book #BK2351						
	198829-1 C	2.8	2.8	CU319	S7590	0.0028	

Continued on Page

Read and Understood By

Signature Date Signature Date

PROJECT MS VOA MeOH Extraction Log

Notebook No. BK2351

Continued From Page

Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate Std Vol (mL)	Comments
10/29/07 jc	Blank	10.0 to 1.0	10.0	CU319	8260	57000	0.010	
	198658-1 A	10.0						
	198685-2	1.0						oil
	198778-1	10.0						oily sludge
	-2	10.0						
11/2/07 jc	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198797-5 A							
	-6							
	-7							
	198843-2							
	198889-1							
	-2							

Continued on Page

Read and Understood

Signed Date Signed Date

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/5/07

Prepped by: jle

8260 5030 131304

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198889-001	2.0	A		12	RR 2.5X OD ~~MSS/MS/MSD~~		
2	002	0.020	"		"	RR 250X		
3	198843-002	0.008	"		"	625X		
4	198797-005	0.200	"		"	RR 25X OD		
5	6	0.150	"		"	" 33X "		
6	7	0.080	"		"	" 62.5X "		
7	198889-001	5.0	A			RR 1X OD MSS/MS/MSD		
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25	P. Blank MeOH	0.200				25X 11/5/07		
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198880-001	0.020	B		12	RR 250X NT		
2	198818-001	0.025	C		1	RR 200X HC, NT surr ↓		
3	002	0.0125	"		"	RR 400X HC, NT surr ↓↑		
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: ~~10~~ 11/5/07

Prepped by: Zie

131303

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198951-1	5.2	A		6	aliased 198548-12	11/1/07	11/08/07
2	198881-3	10.0		X		100X		
3	-4	10.0		X		250X		
4	-5	5.1			6			
5	-6	10.0		X		500X		
6	-7	10.0		X		5000X		
7	-8	10.0		X		500X		
8	-10	10.0		X		500X		
9	-11	10.0		X		100X		
10	-12	5.4			6			
11	-15	10.0		X	6	250X		
12	-16	5.1			6			
13	-17	5.3			12			
14	198908-2	10.0		X	6	500X		
15	-3	10.0		X		500X		
16	-6	10.0		X		500X		
17	-9	5.4			12			
18	-10	5.2			12			
19	-11	5.4			12			
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198956-1	6.1	A		6	MS5		
2	-1	6.2	B			MS		
3	-1	5.5	C			MSD		
4	-3					These samples are not for 826		
5	-4							
6	-5							
7	-6							
8	-7							
9	-8							
10	-9							
11	-10							
12	-12							
13	-14							
14	-15							
15	-13							
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

PROJECT MS VOA MeOH Extraction Log

Continued From Page

Date & initial	Sample ID	Soil wt. (g)	MeOH vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate std vol (mL)	Comments
10/29/07 JC	Blank	10.0	10.0	CL319	8260	57000	0.010	
	198658-1 A	10.0						oil
	198685-2	1.0						oily sludge
	198778-1	10.0						
	-2	10.0						
11/2/07 JC	Blank	10.0	10.0	CL319	8260	57590	0.010	
	198797-5 A							
	-6							
	-7							
	198843-2							
	198889-1							
	-2							
11/5/07 JC	Blank	10.0	10.0	CL319	8260	57590	0.010	
	198881-3 A							
	-4							
	-6							
	-7							
	-8							
	-10							
	-11							
	-15							
	198908-2							
	-3							
	-6							

Continued on Page

Read and Understood By

Signed Date Signed Date

PROJECT 5035 Prep Log

Continued From Page

Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
10/25/07 lie	BLank	5.0	5.0	CU319	57000	0.005	
	198634-2 B	6.0	6.0			0.006	
	-4	6.1	6.1			0.0061	
	-9	6.2	6.2			0.0062	
	198642-9	4.9	4.9			0.0049	
	-10	5.6	5.6			0.0056	
10/26/07 lie	BLank	5.0	5.0	CU319	57000	0.005	
	198672-2 C	4.3	4.3			0.0043	
	198683-6 B	5.3	5.3			0.0053	
10/30/07 cwj	Blank	5.0	5.0	CU319	57000	0.005 mL	
	198710-7 B	6.4	6.4			0.0064	
	-8	5.6	5.6			0.0056	
10/31/07 lie	BLank	5.0	5.0	CU319	57000	0.005	
	198718-12 B	5.1	5.1			0.0051	
	198764-11	5.5	5.5			0.0055	
~~10~~ 11/1/07 lie	BLank	5.0	5.0	CU319	57000	0.005	
	198764-6 C	3.5	3.5			0.0035	
	198818-1	5.8	5.8			0.0058	
	-2	6.0	6.0			0.006	
	-4 G	5.5	5.5			0.0055	
	-6 C	5.9	5.9			0.0059	
	198880-1 B	6.5	6.5			0.0065	
11/2/07 lie	BLank see on page #230 MS VOA Extraction Log Book #BK2351						
	198829-1 C	2.8	2.8	CU319	57590	0.0028	

Continued on Page

Read and Understood

Project Page

8270-SIM
Water

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX357RB358	Batch#:	131313
Lab ID:	198880-004	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Prepared:	11/05/07
Diln Fac:	1.000	Analyzed:	11/06/07

Analyte	Result	RL	MDL
Naphthalene	ND	0.1	0.008
2-Methylnaphthalene	ND	0.1	0.008
Acenaphthylene	ND	0.1	0.008
Acenaphthene	ND	0.1	0.007
Fluorene	ND	0.1	0.008
Phenanthrene	ND	0.1	0.007
Anthracene	ND	0.1	0.006
Fluoranthene	ND	0.1	0.008
Pyrene	ND	0.1	0.007
Benzo(a)anthracene	ND	0.1	0.01
Chrysene	ND	0.1	0.01
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.009
Benzo(a)pyrene	ND	0.1	0.008
Indeno(1,2,3-cd)pyrene	ND	0.1	0.01
Dibenz(a,h)anthracene	ND	0.1	0.008
Benzo(g,h,i)perylene	ND	0.1	0.007

Surrogate	%REC	Limits
Nitrobenzene-d5	99	45-132
2-Fluorobiphenyl	90	48-120
Terphenyl-d14	87	30-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

35.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413712	Batch#:	131313
Matrix:	Water	Prepared:	11/05/07
Units:	ug/L	Analyzed:	11/06/07

Analyte	Result	RL	MDL
Naphthalene	ND	0.1	0.008
2-Methylnaphthalene	ND	0.1	0.008
Acenaphthylene	ND	0.1	0.008
Acenaphthene	ND	0.1	0.007
Fluorene	ND	0.1	0.008
Phenanthrene	ND	0.1	0.007
Anthracene	ND	0.1	0.006
Fluoranthene	ND	0.1	0.008
Pyrene	ND	0.1	0.007
Benzo(a)anthracene	ND	0.1	0.01
Chrysene	ND	0.1	0.01
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.009
Benzo(a)pyrene	ND	0.1	0.008
Indeno(1,2,3-cd)pyrene	ND	0.1	0.01
Dibenz(a,h)anthracene	ND	0.1	0.008
Benzo(g,h,i)perylene	ND	0.1	0.007

Surrogate	%REC	Limits
Nitrobenzene-d5	100	45-132
2-Fluorobiphenyl	92	48-120
Terphenyl-d14	84	30-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	131313
Units:	ug/L	Prepared:	11/05/07
Diln Fac:	1.000	Analyzed:	11/06/07

Type: BS Lab ID: QC413713

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	0.8302	83	45-120
Pyrene	1.000	0.7869	79	39-120

Surrogate	%REC	Limits
Nitrobenzene-d5	107	45-132
2-Fluorobiphenyl	94	48-120
Terphenyl-d14	89	30-120

Type: BSD Lab ID: QC413714

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	0.8152	82	45-120	2	35
Pyrene	1.000	0.6752	68	39-120	15	34

Surrogate	%REC	Limits
Nitrobenzene-d5	102	45-132
2-Fluorobiphenyl	93	48-120
Terphenyl-d14	73	30-120

RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR 198880 MSSIM Water
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291006 File : uk206 Time : 02-NOV-2007 14:11

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	40208	49.54	
68	< 2% of mass 69	0	0.00	
69		52679		
70	< 2% of mass 69	165	0.31	
127	40% - 60% of mass 198	40437	49.82	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5444	6.71	
275	10% - 30% of mass 198	12568	15.48	
365	> 1% of mass 198	1072	1.32	
441	Present, < mass 443	8859	71.19	
442	> 40% and < 100% of mass 198	62530	77.04	
443	17% - 23% of mass 442	12444	19.90	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291006

CURTIS & TOMPKINS DFTPP TUNE FOR 198880 MSSIM Water
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291014 File : uk214 Time : 02-NOV-2007 18:51

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	41709	46.22	
68	< 2% of mass 69	0	0.00	
69		53443		
70	< 2% of mass 69	271	0.51	
127	40% - 60% of mass 198	43936	48.69	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	6233	6.91	
275	10% - 30% of mass 198	15111	16.74	
365	> 1% of mass 198	1241	1.38	
441	Present, < mass 443	11166	72.57	
442	> 40% and < 100% of mass 198	79056	87.60	
443	17% - 23% of mass 442	15387	19.46	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291014

CURTIS & TOMPKINS DFTPP TUNE FOR 198880 MSSIM Water
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517447053001 File : uk601 Time : 06-NOV-2007 10:53

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	71453	46.17	
68	< 2% of mass 69	0	0.00	
69		96029		
70	< 2% of mass 69	324	0.34	
127	40% - 60% of mass 198	74352	48.04	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	10449	6.75	
275	10% - 30% of mass 198	24208	15.64	
365	> 1% of mass 198	2179	1.41	
441	Present, < mass 443	17920	73.02	
442	> 40% and < 100% of mass 198	126493	81.73	
443	17% - 23% of mass 442	24541	19.40	

Analyst: JGM Date: 11/07/07 Reviewer: LLH Date: 11/08/07

517447053001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517441291001
Units : ug/mL

Name : 2PAHSIM
Date : 02-NOV-2007 14:33
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	uk207	517441291007	0.1/0.5UG/ML PAHDIOX	02-NOV-2007 14:33	S7213
L2	uk208	517441291008	0.2/1.0UG/ML PAHDIOX	02-NOV-2007 15:14	S7214
L3	uk209	517441291009	0.5/2.5UG/ML PAHDIOX	02-NOV-2007 15:55	S7215
L4	uk210	517441291010	1.0/5.0UG/ML PAHDIOX	02-NOV-2007 16:31	S7216
L5	uk211	517441291011	2.0/10.0UG/ML PAHDIO	02-NOV-2007 17:07	S7217
L6	uk212	517441291012	5.0/25.0UG/ML PAHDIO	02-NOV-2007 17:43	S7218
L7	uk213	517441291013	10.0/50.0UG/ML PAHDI	02-NOV-2007 18:19	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0639	1.0823	1.0856	1.1040	1.1332	1.1131	1.0916	AVRG		0.91222		1.0962	2	15	0.05	0.99	
2-Methylnaphthalene	0.6357	0.6327	0.6493	0.6889	0.7064	0.6851	0.6560	AVRG		1.50406		0.6649	4	15	0.05	0.99	
Acenaphthylene	1.8691	1.9772	1.8721	1.8864	1.9509	2.0678	1.9515	AVRG		0.51566		1.9393	4	15	0.05	0.99	
Acenaphthene	1.0159	1.0928	1.0242	1.0541	1.1281	1.1167	1.0762	AVRG		0.93232		1.0726	4	15	0.05	0.99	
Fluorene	1.2548	1.3014	1.2069	1.2491	1.2902	1.3355	1.2057	AVRG		0.79154		1.2634	4	15	0.05	0.99	
Phenanthrene	1.1292m	1.2024	1.1937	1.2045	1.1824	1.1754	1.2048	AVRG		0.84414		1.1846	2	15	0.05	0.99	
Anthracene	1.0203m	1.1253m	1.0649m	1.0639m	1.1298	1.0908m	1.0707	AVRG		0.92521		1.0808	4	15	0.05	0.99	
Fluoranthene	1.0832	1.1668	1.1140	1.1525	1.2037	1.1694	1.2065	AVRG		0.86463		1.1566	4	15	0.05	0.99	
Pyrene	1.8526	2.0391	1.8341	1.8720	1.7668	1.7596	1.6633	AVRG		0.54741		1.8268	6	15	0.05	0.99	
Benzo(a)anthracene	1.1417	1.1877m	1.1715	1.2070	1.2427	1.2768	1.2573	AVRG		0.82502		1.2121	4	15	0.05	0.99	
Chrysene	1.1638m	1.2611m	1.1702m	1.2135m	1.2485	1.1741	1.1845	AVRG		0.83179		1.2022	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3117	1.4346m	1.4072	1.5151	1.4590	1.4492	1.4097	AVRG		0.70094		1.4267	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.2810m	1.4441	1.4226	1.4871	1.4949	1.6051	1.6111	AVRG		0.67660		1.4780	8	15	0.05	0.99	
Benzo(a)pyrene	0.9774m	1.0759	1.0971	1.1613	1.2506	1.2644	1.2978	AVRG		0.86160		1.1606	10	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9592m	0.9941m	1.0273m	1.0226	1.1734	1.2215	1.2664	AVRG		0.91331		1.0949	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6926m	0.8080m	0.7864	0.7933	0.9054	0.9571	1.0173	AVRG		1.17447		0.8514	13	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9227m	0.9829m	0.9663	0.9096	1.0016	1.0677	1.0671	AVRG		1.01188		0.9883	6	15	0.05	0.99	
Nitrobenzene-d5	0.2886m	0.2785m	0.2938m	0.2894m	0.2991	0.3061	0.2988	AVRG		3.40744		0.2935	3	15	0.05	0.99	
2-Fluorobiphenyl	1.3097	1.3536	1.2990	1.2974	1.2619	1.3343	1.2572	AVRG		0.76813		1.3019	3	15	0.05	0.99	
Terphenyl-d14	1.2533	1.2554	1.2006	1.2455	1.2170	1.1718	1.1433	AVRG		0.82481		1.2124	4	15	0.05	0.99	

09215

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	-1	1.000	1	2.000	3	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-4	0.200	-5	0.500	-2	1.000	4	2.000	6	5.000	3	10.00	-1
Acenaphthylene	0.100	-4	0.200	2	0.500	-3	1.000	-3	2.000	1	5.000	7	10.00	1
Acenaphthene	0.100	-5	0.200	2	0.500	-5	1.000	-2	2.000	5	5.000	4	10.00	0
Fluorene	0.100	-1	0.200	3	0.500	-4	1.000	-1	2.000	2	5.000	6	10.00	-5
Phenanthrene	0.100	-5	0.200	1	0.500	1	1.000	2	2.000	0	5.000	-1	10.00	2
Anthracene	0.100	-6	0.200	4	0.500	-1	1.000	-2	2.000	5	5.000	1	10.00	-1
Fluoranthene	0.100	-6	0.200	1	0.500	-4	1.000	0	2.000	4	5.000	1	10.00	4
Pyrene	0.100	1	0.200	12	0.500	0	1.000	2	2.000	-3	5.000	-4	10.00	-9
Benzo(a)anthracene	0.100	-6	0.200	-2	0.500	-3	1.000	0	2.000	3	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	5	0.500	-3	1.000	1	2.000	4	5.000	-2	10.00	-1
Benzo(b)fluoranthene	0.100	-8	0.200	1	0.500	-1	1.000	6	2.000	2	5.000	2	10.00	-1
Benzo(k)fluoranthene	0.100	-13	0.200	-2	0.500	-4	1.000	1	2.000	1	5.000	9	10.00	9
Benzo(a)pyrene	0.100	-16	0.200	-7	0.500	-5	1.000	0	2.000	8	5.000	9	10.00	12
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-9	0.500	-6	1.000	-7	2.000	7	5.000	12	10.00	16
Dibenz(a,h)anthracene	0.100	-19	0.200	-5	0.500	-8	1.000	-7	2.000	6	5.000	12	10.00	19
Benzo(g,h,i)perylene	0.100	-7	0.200	-1	0.500	-2	1.000	-8	2.000	1	5.000	8	10.00	8
Nitrobenzene-d5	0.100	-2	0.200	-5	0.500	0	1.000	-1	2.000	2	5.000	4	10.00	2
2-Fluorobiphenyl	0.100	1	0.200	4	0.500	0	1.000	0	2.000	-3	5.000	2	10.00	-3
Terphenyl-d14	0.100	3	0.200	4	0.500	-1	1.000	3	2.000	0	5.000	-3	10.00	-6

JGM 11/02/07 : Manual integrations for tailing/misidentified peaks.

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517441291001

Name : 2PAHSIM
Cal Date : 02-NOV-2007

ICV 517441291015 (uk215 02-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0962	1.0045	1.000	0.9164	ug/mL	-8	20	
2-Methylnaphthalene	0.6649	0.5940	1.000	0.8935	ug/mL	-11	20	
Acenaphthylene	1.9393	1.8656	1.000	0.9620	ug/mL	-4	20	
Acenaphthene	1.0726	0.9993	1.000	0.9317	ug/mL	-7	20	
Fluorene	1.2634	1.1648	1.000	0.9220	ug/mL	-8	20	
Phenanthrene	1.1846	1.0678	1.000	0.9014	ug/mL	-10	20	
Anthracene	1.0808	1.1002	1.000	1.018	ug/mL	2	20	
Fluoranthene	1.1566	1.1099	1.000	0.9596	ug/mL	-4	20	
Pyrene	1.8268	1.7231	1.000	0.9432	ug/mL	-6	20	
Benzo(a)anthracene	1.2121	1.1245	1.000	0.9278	ug/mL	-7	20	
Chrysene	1.2022	1.1778	1.000	0.9797	ug/mL	-2	20	
Benzo(b)fluoranthene	1.4267	1.2951	1.000	0.9078	ug/mL	-9	20	
Benzo(k)fluoranthene	1.4780	1.5735	1.000	1.065	ug/mL	6	20	
Benzo(a)pyrene	1.1606	1.1339	1.000	0.9770	ug/mL	-2	20	
Indeno(1,2,3-cd)pyrene	1.0949	0.9389	1.000	0.8575	ug/mL	-14	20	
Dibenz(a,h)anthracene	0.8514	0.7382	1.000	0.8670	ug/mL	-13	20	
Benzo(g,h,i)perylene	0.9883	0.8900	1.000	0.9006	ug/mL	-10	20	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 517447053003.1 File : uk603 Time : 06-NOV-2007 11:53
Cal : 517441291001 Caldate : 02-NOV-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0962	1.2387	1.000	1.130	ug/mL	13	20	0.0500	m
2-Methylnaphthalene	0.6649	0.6803	1.000	1.023	ug/mL	2	20	0.0500	
Acenaphthylene	1.9393	1.9895	1.000	1.026	ug/mL	3	20	0.0500	
Acenaphthene	1.0726	1.1204	1.000	1.045	ug/mL	4	20	0.0500	
Fluorene	1.2634	1.3676	1.000	1.083	ug/mL	8	20	0.0500	
Phenanthrene	1.1846	1.1902	1.000	1.005	ug/mL	0	20	0.0500	
Anthracene	1.0808	1.0698	1.000	0.9898	ug/mL	-1	20	0.0500	
Fluoranthene	1.1566	1.1591	1.000	1.002	ug/mL	0	20	0.0500	
Pyrene	1.8268	1.6326	1.000	0.8937	ug/mL	-11	20	0.0500	
Benzo(a)anthracene	1.2121	1.2157	1.000	1.003	ug/mL	0	20	0.0500	
Chrysene	1.2022	1.2506	1.000	1.040	ug/mL	4	20	0.0500	
Benzo(b)fluoranthene	1.4267	1.3586	1.000	0.9523	ug/mL	-5	20	0.0500	
Benzo(k)fluoranthene	1.4780	1.4851	1.000	1.005	ug/mL	0	20	0.0500	
Benzo(a)pyrene	1.1606	1.1635	1.000	1.003	ug/mL	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0949	1.0452	1.000	0.9546	ug/mL	-5	20	0.0500	
Dibenz(a,h)anthracene	0.8514	0.8386	1.000	0.9849	ug/mL	-2	20	0.0500	
Benzo(g,h,i)perylene	0.9883	0.9343	1.000	0.9454	ug/mL	-5	20	0.0500	m
Nitrobenzene-d5	0.2935	0.3236	1.000	1.103	ug/mL	10	20	0.0500	m
2-Fluorobiphenyl	1.3019	1.4250	1.000	1.095	ug/mL	9	20	0.0500	
Terphenyl-d14	1.2124	1.0354	1.000	0.8540	ug/mL	-15	20	0.0500	

Analyst: JGM Date: 11/07/07 Reviewer: LLH Date: 11/08/07

m=manual integration

517447053003.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517447053

Date : 11/06/07
Sequence : MSBNA02 uk6

Reference : uk603
Analyzed : 11/06/07 11:53

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	32008	8.31	129062	9.89	60872	12.16	95641	14.12	70673	17.69	52773	19.68
		LOWER LIMIT	16004	7.81	64531	9.39	30436	11.66	47821	13.62	35337	17.19	26387	19.18
		UPPER LIMIT	64016	8.81	258124	10.39	121744	12.66	191282	14.62	141346	18.19	105546	20.18
003	CCV	1/5UG/ML	32008	8.31	129062	9.89	60872	12.16	95641	14.12	70673	17.69	52773	19.68
004	BLANK	QC413712	30782	8.31	134697	9.89	63904	12.16	96031	14.12	64611	17.69	39433	19.68
005	BS	QC413713	30447	8.31	130298	9.89	62168	12.16	90973	14.12	68588	17.69	48684	19.68
006	BSD	QC413714	32314	8.31	135220	9.89	62780	12.17	97995	14.12	73016	17.69	50015	19.68
007	SAMPLE	198880-004	32464	8.31	134304	9.89	64865	12.16	93880	14.12	64887	17.69	40747	19.68
008	SAMPLE	198903-004	30942	8.31	134932	9.89	66201	12.16	96350	14.12	63535	17.69	37981	19.68
009	SAMPLE	198956-002	33249	8.31	145602	9.89	67419	12.17	100422	14.12	70679	17.69	45008	19.68
010	SAMPLE	198836-001	33843	8.31	146078	9.89	66266	12.17	98157	14.12	69238	17.69	37542	19.68
011	SAMPLE	198836-002	31882	8.31	139007	9.89	64827	12.16	95695	14.12	68519	17.69	44984	19.68
012	SAMPLE	198836-003	31850	8.31	139925	9.89	65449	12.16	95814	14.12	65450	17.69	42621	19.68
013	SAMPLE	198836-004	33202	8.31	137813	9.88	67628	12.16	98503	14.12	63621	17.69	40216	19.68
014	SAMPLE	198836-006	33686	8.31	145649	9.89	68843	12.16	100389	14.12	67428	17.69	43301	19.68
015	SAMPLE	198925-001	36505	8.31	157530	9.89	77418	12.17	103980	14.13	69026	17.70	19977 *	19.69
016	SAMPLE	198925-003	34116	8.31	160737	9.89	100169	12.16	109223	14.12	81107	17.70	54169	19.68

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517441291

Instrument : MSBNA02
Method : EPA 8270C, EPA 8270C-SIM

Begun : 11/02/07 10:51
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk201	TUN	DFTPP/PEM 50UG/ML			11/02/07 10:51	1.0	1	
002	uk202	TUN	DFTPP/PEM 50UG/ML			11/02/07 11:36	1.0	1	
003	uk203	CCV	RT CHECK			11/02/07 12:01	1.0	2	21:DIOXANE14=74
004	uk204	CCV	RT CHECK			11/02/07 12:55	1.0	2	15:DIOXANE14=64
005	uk205	TUN	DFTPP/PEM 50UG/ML			11/02/07 13:40	1.0	1	
006	uk206	TUN	DFTPP/PEM 50UG/ML			11/02/07 14:11	1.0	1	
007	uk207	ICAL	0.1/0.5UG/ML PAHDIOX			11/02/07 14:33	1.0	3	
008	uk208	ICAL	0.2/1.0UG/ML PAHDIOX			11/02/07 15:14	1.0	4	
009	uk209	ICAL	0.5/2.5UG/ML PAHDIOX			11/02/07 15:55	1.0	5	
010	uk210	ICAL	1.0/5.0UG/ML PAHDIOX			11/02/07 16:31	1.0	6	
011	uk211	ICAL	2.0/10.0UG/ML PAHDIO			11/02/07 17:07	1.0	7	
012	uk212	ICAL	5.0/25.0UG/ML PAHDIO			11/02/07 17:43	1.0	8	
013	uk213	ICAL	10.0/50.0UG/ML PAHDI			11/02/07 18:19	1.0	2	
014	uk214	TUN	DFTPP/PEM 50UG/ML			11/02/07 18:51	1.0	1	
015	uk215	ICV/CCV	10/1UG/ML			11/02/07 19:13	1.0	9	
016	uk216	BLANK	QC413150	Water	131165	11/02/07 20:03	1.0	10	
017	uk217	BS	QC413151	Water	131165	11/02/07 20:40	1.0	10	
018	uk218	BSD	QC413152	Water	131165	11/02/07 21:18	1.0	10	
019	uk219	BLANK	QC413366	Soil	131224	11/02/07 21:55	1.0	10	
020	uk220	LCS	QC413367	Soil	131224	11/02/07 22:32	1.0	10	
021	uk221	SAMPLE	198837-001	Soil	131224	11/02/07 23:10	1.0	10	
022	uk222	MSS	198767-005	Soil	131224	11/02/07 23:47	1.0	10	
023	uk223	MS	QC413368	Soil	131224	11/03/07 00:23	1.0	10	
024	uk224	MSD	QC413369	Soil	131224	11/03/07 00:59	1.0	10	
025	uk225	SAMPLE	198799-001	Water	131165	11/03/07 01:35	1.0	10	
026	uk226	BLANK	QC413563	Soil	131279	11/03/07 02:11	1.0	10	
027	uk227	LCS	QC413564	Soil	131279	11/03/07 02:46	1.0	10	
028	uk228	SAMPLE	198880-001	Soil	131279	11/03/07 03:22	2.0	10	
029	uk229	SAMPLE	198880-002	Soil	131279	11/03/07 03:58	2.0	10	
030	uk230	MSS	198903-001	Soil	131279	11/03/07 04:35	1.0	10	
031	uk231	SAMPLE	198903-002	Soil	131279	11/03/07 05:11	3.0	10	
032	uk232	SAMPLE	198903-003	Soil	131279	11/03/07 05:48	5.0	10	
033	uk233	SAMPLE	198903-006	Soil	131279	11/03/07 06:25	1.0	10	

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592 10=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517447053

Instrument : MSBNA02
Method : EPA 8270C, EPA 8270C-SIM
Begun : 11/06/07 10:53
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk601	TUN	DFTPP/PEM 50UG/ML			11/06/07 10:53	1.0	1	
002	uk602	CCV	1/5UG/ML			11/06/07 11:14	1.0	2	
003	uk603	CCV	1/5UG/ML			11/06/07 11:53	1.0	2	
004	uk604	BLANK	QC413712	Water	131313	11/06/07 12:30	1.0	3	
005	uk605	BS	QC413713	Water	131313	11/06/07 13:07	1.0	3	
006	uk606	BSD	QC413714	Water	131313	11/06/07 13:44	1.0	3	
007	uk607	SAMPLE	198880-004	Water	131313	11/06/07 14:20	1.0	3	
008	uk608	SAMPLE	198903-004	Water	131313	11/06/07 14:57	1.0	3	
009	uk609	SAMPLE	198956-002	Water	131313	11/06/07 15:33	1.0	3	
010	uk610	SAMPLE	198836-001	Water	131313	11/06/07 16:10	1.0	3	
011	uk611	SAMPLE	198836-002	Water	131313	11/06/07 17:34	1.0	3	
012	uk612	SAMPLE	198836-003	Water	131313	11/06/07 18:11	1.0	3	
013	uk613	SAMPLE	198836-004	Water	131313	11/06/07 18:47	1.0	3	
014	uk614	SAMPLE	198836-006	Water	131313	11/06/07 19:23	1.0	3	
015	uk615	SAMPLE	198925-001	Water	131313	11/06/07 19:59	1.0	3	1:ACNP=11
016	uk616	SAMPLE	198925-003	Water	131313	11/06/07 20:36	1.0	3	
017	uk617	TUN	DFTPP/PEM 50UG/ML			11/06/07 21:56	1.0	1	
018	uk618	CCV	1/5UG/ML			11/06/07 22:16	1.0	2	
019	uk619	BLANK	QC413978	Soil	131378	11/06/07 22:52	1.0	3	
020	uk620	MDL	198962-001	Soil	131378	11/06/07 23:31	1.0	3	
021	uk621	MDL	198962-002	Soil	131378	11/07/07 00:08	1.0	3	
022	uk622	MDL	198962-003	Soil	131378	11/07/07 00:45	1.0	3	
023	uk623	MDL	198962-004	Soil	131378	11/07/07 01:21	1.0	3	
024	uk624	MDL	198962-005	Soil	131378	11/07/07 01:57	1.0	3	
025	uk625	MDL	198962-006	Soil	131378	11/07/07 02:34	1.0	3	
026	uk626	MDL	198962-007	Soil	131378	11/07/07 03:11	1.0	3	
027	uk627	MDL	198962-008	Soil	131378	11/07/07 03:47	1.0	3	

Standards used: 1=S7320 2=S7216 3=S7591

REPORTING SUMMARY FOR 198880 MSSIM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FLH	PHAN	AHT	FLA	PYR	BZAA	CHAR	BZBF	BZFK	BZAP	INP1	DBAH	BZHG	NO2B	PHEN	PHEN2
198880-004	MSBNA02	11/06/07 14:20	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413712	MSBNA02	11/06/07 12:30	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413713	MSBNA02	11/06/07 13:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413714	MSBNA02	11/06/07 13:44	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SAMPLE PREPARATION SUMMARY

Batch # : 131313
Started By : DJT
Method : 3520C
Spike #1 ID : S7474
Prep Date : 05-NOV-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7566
Analysis : 8270-SIM
Finished By : SFH
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198836-001		Water	1040	1	1	0.0009615	7	1				8270-SIM	
198836-002		Water	1050	1	1	0.0009524	5	1				8270-SIM	
198836-003		Water	1040	1	1	0.0009615	7	1				8270-SIM	
198836-004		Water	1040	1	1	0.0009615	7	1				8270-SIM	
198836-006		Water	1030	1	1	0.0009709	5	1				8270-SIM	
198880-004		Water	1000	1	1	0.001	5	1				8270-SIM	
198903-004		Water	1050	1	1	0.0009524	5	1				8270-SIM	
198925-001		Water	950	1	1	0.001053	7	1				8270-SIM	
198925-003		Water	1000	1	1	0.001	7	1				8270-SIM	
198956-002		Water	1000	1	1	0.001	5	1				8270-SIM	
QC413712	BLANK	Water	1000	1	1	0.001		1				8270-SIM	
QC413713	BS	Water	1000	1	1	0.001		1	1			8270-SIM	
QC413714	BSD	Water	1000	1	1	0.001		1	1			8270-SIM	

Analyst: JGM Date: 11/07/07 Reviewer: LLH Date: 11/08/07

BNA Water Prep Log

Curtis & Tompkins, Ltd.

Page 97 **BK 2527**

LIMS Analysis: 8270-SIM
LIMS Batch No: 131313
Date Extracted: 11/5/07

Extraction Method:
☒ mod.EPA 3520c cont.L/L
☐ _____

Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ _____

	Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
	198836-001 X	1040	7	1.0		MS DST 11/6/07
	002 K	1050	5			
	003 I	1040	7			
	004 K	1040	↓			
5	006 I	1030	5			
	198880-004 B	1000				
	198903-004 K	1050				
	198925-001 D	950	7			
	003 E	1000	↓			
10	198956-002 F	1000	5			
	MB QC413712	1000	NA			
	LCS BS 3					
	MS BSD 4					
	DST 11/5/07 MSD					
15						
20						
						SFH 11/6/07

	Lot# / LIMS # / Time	Date/ Initials
1.0 mL of surrogate solution was added to all samples	S7474A	DST 11/5/07
1.0 mL of matrix spiking solution was added to all spikes	S7566C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS073967	
Cont. L/L extracted with 450mL of CH_2Cl_2	EM47178	
Extraction Start Time:	1300	
Extraction End Time:	0710	SFH 11/6/07
pH of all samples adjusted to pH ≥ 11 with 10 N NaOH	N/A	
Extraction Start Time:		
Extraction End Time:		
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM47158737	
Concentrated to volumes as noted above	✓	
Relinquished to BNA department	✓	

DST 11/5/07
Extraction Chemist **Date**

Contined from Page ___
Continued on Page ___

11/6/07
Reviewed by **Date**

8270-SIM
Soil

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX357[4.0]	Batch#:	131279
Lab ID:	198880-001	Sampled:	10/31/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Prepared:	11/02/07
Basis:	dry		

Moisture: 16%

Analyte	Result	RL	MDL	Diln Fac	Analyzed
Naphthalene	170	120	15	20.00	11/06/07
2-Methylnaphthalene	390	12	1.2	2.000	11/03/07
Acenaphthylene	1.6 J	12	1.3	2.000	11/03/07
Acenaphthene	7.9 J	12	1.1	2.000	11/03/07
Fluorene	7.3 J	12	1.3	2.000	11/03/07
Phenanthrene	19	12	1.1	2.000	11/03/07
Anthracene	3.2 J	12	1.6	2.000	11/03/07
Fluoranthene	5.9 J	12	1.3	2.000	11/03/07
Pyrene	7.9 J	12	1.0	2.000	11/03/07
Benzo(a)anthracene	2.1 J	12	1.2	2.000	11/03/07
Chrysene	3.8 J	12	1.1	2.000	11/03/07
Benzo(b)fluoranthene	ND	12	1.4	2.000	11/03/07
Benzo(k)fluoranthene	ND	12	1.5	2.000	11/03/07
Benzo(a)pyrene	2.4 J	12	1.8	2.000	11/03/07
Indeno(1,2,3-cd)pyrene	2.4 J	12	0.84	2.000	11/03/07
Dibenz(a,h)anthracene	1.2 J	12	0.72	2.000	11/03/07
Benzo(g,h,i)perylene	4.3 J	12	0.95	2.000	11/03/07

Surrogate	%REC	Limits	Diln Fac	Analyzed
Nitrobenzene-d5	DO	39-136	20.00	11/06/07
2-Fluorobiphenyl	99	42-120	2.000	11/03/07
Terphenyl-d14	100	34-130	2.000	11/03/07

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX358[4.0]	Batch#:	131279
Lab ID:	198880-002	Sampled:	10/31/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/03/07
Diln Fac:	2.000		

Moisture: 10%

Analyte	Result	RL	MDL
Naphthalene	3.0 J	11	1.3
2-Methylnaphthalene	5.2 J	11	1.1
Acenaphthylene	ND	11	1.2
Acenaphthene	ND	11	1.1
Fluorene	ND	11	1.2
Phenanthrene	ND	11	1.0
Anthracene	ND	11	1.5
Fluoranthene	ND	11	1.2
Pyrene	1.5 J	11	0.94
Benzo(a)anthracene	ND	11	1.1
Chrysene	ND	11	1.1
Benzo(b)fluoranthene	1.4 J	11	1.3
Benzo(k)fluoranthene	ND	11	1.4
Benzo(a)pyrene	ND	11	1.7
Indeno(1,2,3-cd)pyrene	ND	11	0.79
Dibenz(a,h)anthracene	ND	11	0.67
Benzo(g,h,i)perylene	1.4 J	11	0.89

Surrogate	%REC	Limits
Nitrobenzene-d5	95	39-136
2-Fluorobiphenyl	93	42-120
Terphenyl-d14	107	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413563	Batch#:	131279
Matrix:	Soil	Prepared:	11/02/07
Units:	ug/Kg	Analyzed:	11/03/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.57
2-Methylnaphthalene	ND	5.0	0.51
Acenaphthylene	ND	5.0	0.55
Acenaphthene	ND	5.0	0.48
Fluorene	ND	5.0	0.55
Phenanthrene	ND	5.0	0.46
Anthracene	ND	5.0	0.66
Fluoranthene	ND	5.0	0.53
Pyrene	ND	5.0	0.42
Benzo(a)anthracene	ND	5.0	0.50
Chrysene	ND	5.0	0.48
Benzo(b)fluoranthene	ND	5.0	0.59
Benzo(k)fluoranthene	ND	5.0	0.64
Benzo(a)pyrene	ND	5.0	0.74
Indeno(1,2,3-cd)pyrene	ND	5.0	0.35
Dibenz(a,h)anthracene	ND	5.0	0.30
Benzo(g,h,i)perylene	ND	5.0	0.40

Surrogate	%REC	Limits
Nitrobenzene-d5	83	39-136
2-Fluorobiphenyl	89	42-120
Terphenyl-d14	99	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413564	Batch#:	131279
Matrix:	Soil	Prepared:	11/02/07
Units:	ug/Kg	Analyzed:	11/03/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.24	22.66	68	42-120
Pyrene	33.24	22.22	67	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	84	39-136
2-Fluorobiphenyl	80	42-120
Terphenyl-d14	78	34-130

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX359[4.0]	Batch#:	131279
MSS Lab ID:	198903-001	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: MS Moisture: 16%
Lab ID: QC413567

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<0.5695	39.56	29.18	74	47-120
Pyrene	<0.5022	39.56	29.36	74	17-146

Surrogate	%REC	Limits
Nitrobenzene-d5	95	39-136
2-Fluorobiphenyl	89	42-120
Terphenyl-d14	82	34-130

Type: MSD Moisture: 16%
Lab ID: QC413568

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	39.51	30.85	78	47-120	6	32
Pyrene	39.51	31.87	81	17-146	8	47

Surrogate	%REC	Limits
Nitrobenzene-d5	97	39-136
2-Fluorobiphenyl	90	42-120
Terphenyl-d14	91	34-130

RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR 198880 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291006 File : uk206 Time : 02-NOV-2007 14:11

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	40208	49.54	
68	< 2% of mass 69	0	0.00	
69		52679		
70	< 2% of mass 69	165	0.31	
127	40% - 60% of mass 198	40437	49.82	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5444	6.71	
275	10% - 30% of mass 198	12568	15.48	
365	> 1% of mass 198	1072	1.32	
441	Present, < mass 443	8859	71.19	
442	> 40% and < 100% of mass 198	62530	77.04	
443	17% - 23% of mass 442	12444	19.90	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291006

CURTIS & TOMPKINS DFTPP TUNE FOR 198880 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291014 File : uk214 Time : 02-NOV-2007 18:51

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	41709	46.22	
68	< 2% of mass 69	0	0.00	
69		53443		
70	< 2% of mass 69	271	0.51	
127	40% - 60% of mass 198	43936	48.69	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	6233	6.91	
275	10% - 30% of mass 198	15111	16.74	
365	> 1% of mass 198	1241	1.38	
441	Present, < mass 443	11166	72.57	
442	> 40% and < 100% of mass 198	79056	87.60	
443	17% - 23% of mass 442	15387	19.46	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

CURTIS & TOMPKINS DFTPP TUNE FOR 198880 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517445566001 File : uk501 Time : 05-NOV-2007 10:06

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	65255	47.89	
68	< 2% of mass 69	0	0.00	
69		86463		
70	< 2% of mass 69	334	0.39	
127	40% - 60% of mass 198	66504	48.80	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	9366	6.87	
275	10% - 30% of mass 198	20853	15.30	
365	> 1% of mass 198	1772	1.30	
441	Present, < mass 443	15926	74.88	
442	> 40% and < 100% of mass 198	109088	80.05	
443	17% - 23% of mass 442	21269	19.50	

Analyst: AD Date: 11/05/07 Reviewer: JGM Date: 11/05/07

517445566001

CURTIS & TOMPKINS DFTPP TUNE FOR 198880 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP IDF : 1.0
Seqnum : 577399499007 File : sj407 Time : 04-OCT-2007 14:02

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	56723	51.72	
68	< 2% of mass 69	0	0.00	
69		51520		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	54896	50.05	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	7427	6.77	
275	10% - 30% of mass 198	26024	23.73	
365	> 1% of mass 198	3682	3.36	
441	Present, < mass 443	1730	12.57	
442	> 40% and < 100% of mass 198	71352	65.06	
443	17% - 23% of mass 442	13763	19.29	

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

577399499007

CURTIS & TOMPKINS DFTPP TUNE FOR 198880 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 577446943001 File : sk601 Time : 06-NOV-2007 09:03

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	116688	44.16	
68	< 2% of mass 69	0	0.00	
69		100671		
70	< 2% of mass 69	231	0.23	
127	40% - 60% of mass 198	120288	45.52	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	19943	7.55	
275	10% - 30% of mass 198	57133	21.62	
365	> 1% of mass 198	8002	3.03	
441	Present, < mass 443	4180	14.51	
442	> 40% and < 100% of mass 198	148066	56.03	
443	17% - 23% of mass 442	28813	19.46	

Analyst: JGM Date: 11/06/07 Reviewer: LW Date: 11/07/07

577446943001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517441291001
Units : ug/mL

Name : 2PAHSIM
Date : 02-NOV-2007 14:33
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	uk207	517441291007	0.1/0.5UG/ML PAHDIOX	02-NOV-2007 14:33	S7213
L2	uk208	517441291008	0.2/1.0UG/ML PAHDIOX	02-NOV-2007 15:14	S7214
L3	uk209	517441291009	0.5/2.5UG/ML PAHDIOX	02-NOV-2007 15:55	S7215
L4	uk210	517441291010	1.0/5.0UG/ML PAHDIOX	02-NOV-2007 16:31	S7216
L5	uk211	517441291011	2.0/10.0UG/ML PAHDIO	02-NOV-2007 17:07	S7217
L6	uk212	517441291012	5.0/25.0UG/ML PAHDIO	02-NOV-2007 17:43	S7218
L7	uk213	517441291013	10.0/50.0UG/ML PAHDI	02-NOV-2007 18:19	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0639	1.0823	1.0856	1.1040	1.1332	1.1131	1.0916	AVRG		0.91222		1.0962	2	15	0.05	0.99	
2-Methylnaphthalene	0.6357	0.6327	0.6493	0.6889	0.7064	0.6851	0.6560	AVRG		1.50406		0.6649	4	15	0.05	0.99	
Acenaphthylene	1.8691	1.9772	1.8721	1.8864	1.9509	2.0678	1.9515	AVRG		0.51566		1.9393	4	15	0.05	0.99	
Acenaphthene	1.0159	1.0928	1.0242	1.0541	1.1281	1.1167	1.0762	AVRG		0.93232		1.0726	4	15	0.05	0.99	
Fluorene	1.2548	1.3014	1.2069	1.2491	1.2902	1.3355	1.2057	AVRG		0.79154		1.2634	4	15	0.05	0.99	
Phenanthrene	1.1292m	1.2024	1.1937	1.2045	1.1824	1.1754	1.2048	AVRG		0.84414		1.1846	2	15	0.05	0.99	
Anthracene	1.0203m	1.1253m	1.0649m	1.0639m	1.1298	1.0908m	1.0707	AVRG		0.92521		1.0808	4	15	0.05	0.99	
Fluoranthene	1.0832	1.1668	1.1140	1.1525	1.2037	1.1694	1.2065	AVRG		0.86463		1.1566	4	15	0.05	0.99	
Pyrene	1.8526	2.0391	1.8341	1.8720	1.7668	1.7596	1.6633	AVRG		0.54741		1.8268	6	15	0.05	0.99	
Benzo(a)anthracene	1.1417	1.1877m	1.1715	1.2070	1.2427	1.2768	1.2573	AVRG		0.82502		1.2121	4	15	0.05	0.99	
Chrysene	1.1638m	1.2611m	1.1702m	1.2135m	1.2485	1.1741	1.1845	AVRG		0.83179		1.2022	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3117	1.4346m	1.4072	1.5151	1.4590	1.4492	1.4097	AVRG		0.70094		1.4267	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.2810m	1.4441	1.4226	1.4871	1.4949	1.6051	1.6111	AVRG		0.67660		1.4780	8	15	0.05	0.99	
Benzo(a)pyrene	0.9774m	1.0759	1.0971	1.1613	1.2506	1.2644	1.2978	AVRG		0.86160		1.1606	10	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9592m	0.9941m	1.0273m	1.0226	1.1734	1.2215	1.2664	AVRG		0.91331		1.0949	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6926m	0.8080m	0.7864	0.7933	0.9054	0.9571	1.0173	AVRG		1.17447		0.8514	13	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9227m	0.9829m	0.9663	0.9096	1.0016	1.0677	1.0671	AVRG		1.01188		0.9883	6	15	0.05	0.99	
Nitrobenzene-d5	0.2886m	0.2785m	0.2938m	0.2894m	0.2991	0.3061	0.2988	AVRG		3.40744		0.2935	3	15	0.05	0.99	
2-Fluorobiphenyl	1.3097	1.3536	1.2990	1.2974	1.2619	1.3343	1.2572	AVRG		0.76813		1.3019	3	15	0.05	0.99	
Terphenyl-d14	1.2533	1.2554	1.2006	1.2455	1.2170	1.1718	1.1433	AVRG		0.82481		1.2124	4	15	0.05	0.99	

0902356

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	-1	1.000	1	2.000	3	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-4	0.200	-5	0.500	-2	1.000	4	2.000	6	5.000	3	10.00	-1
Acenaphthylene	0.100	-4	0.200	2	0.500	-3	1.000	-3	2.000	1	5.000	7	10.00	1
Acenaphthene	0.100	-5	0.200	2	0.500	-5	1.000	-2	2.000	5	5.000	4	10.00	0
Fluorene	0.100	-1	0.200	3	0.500	-4	1.000	-1	2.000	2	5.000	6	10.00	-5
Phenanthrene	0.100	-5	0.200	1	0.500	1	1.000	2	2.000	0	5.000	-1	10.00	2
Anthracene	0.100	-6	0.200	4	0.500	-1	1.000	-2	2.000	5	5.000	1	10.00	-1
Fluoranthene	0.100	-6	0.200	1	0.500	-4	1.000	0	2.000	4	5.000	1	10.00	4
Pyrene	0.100	1	0.200	12	0.500	0	1.000	2	2.000	-3	5.000	-4	10.00	-9
Benzo(a)anthracene	0.100	-6	0.200	-2	0.500	-3	1.000	0	2.000	3	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	5	0.500	-3	1.000	1	2.000	4	5.000	-2	10.00	-1
Benzo(b)fluoranthene	0.100	-8	0.200	1	0.500	-1	1.000	6	2.000	2	5.000	2	10.00	-1
Benzo(k)fluoranthene	0.100	-13	0.200	-2	0.500	-4	1.000	1	2.000	1	5.000	9	10.00	9
Benzo(a)pyrene	0.100	-16	0.200	-7	0.500	-5	1.000	0	2.000	8	5.000	9	10.00	12
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-9	0.500	-6	1.000	-7	2.000	7	5.000	12	10.00	16
Dibenz(a,h)anthracene	0.100	-19	0.200	-5	0.500	-8	1.000	-7	2.000	6	5.000	12	10.00	19
Benzo(g,h,i)perylene	0.100	-7	0.200	-1	0.500	-2	1.000	-8	2.000	1	5.000	8	10.00	8
Nitrobenzene-d5	0.100	-2	0.200	-5	0.500	0	1.000	-1	2.000	2	5.000	4	10.00	2
2-Fluorobiphenyl	0.100	1	0.200	4	0.500	0	1.000	0	2.000	-3	5.000	2	10.00	-3
Terphenyl-d14	0.100	3	0.200	4	0.500	-1	1.000	3	2.000	0	5.000	-3	10.00	-6

JGM 11/02/07 : Manual integrations for tailing/misidentified peaks.

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 517441291001 Cal Date : 02-NOV-2007

ICV 517441291015 (uk215 02-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0962	1.0045	1.000	0.9164	ug/mL	-8	20	
2-Methylnaphthalene	0.6649	0.5940	1.000	0.8935	ug/mL	-11	20	
Acenaphthylene	1.9393	1.8656	1.000	0.9620	ug/mL	-4	20	
Acenaphthene	1.0726	0.9993	1.000	0.9317	ug/mL	-7	20	
Fluorene	1.2634	1.1648	1.000	0.9220	ug/mL	-8	20	
Phenanthrene	1.1846	1.0678	1.000	0.9014	ug/mL	-10	20	
Anthracene	1.0808	1.1002	1.000	1.018	ug/mL	2	20	
Fluoranthene	1.1566	1.1099	1.000	0.9596	ug/mL	-4	20	
Pyrene	1.8268	1.7231	1.000	0.9432	ug/mL	-6	20	
Benzo(a)anthracene	1.2121	1.1245	1.000	0.9278	ug/mL	-7	20	
Chrysene	1.2022	1.1778	1.000	0.9797	ug/mL	-2	20	
Benzo(b)fluoranthene	1.4267	1.2951	1.000	0.9078	ug/mL	-9	20	
Benzo(k)fluoranthene	1.4780	1.5735	1.000	1.065	ug/mL	6	20	
Benzo(a)pyrene	1.1606	1.1339	1.000	0.9770	ug/mL	-2	20	
Indeno(1,2,3-cd)pyrene	1.0949	0.9389	1.000	0.8575	ug/mL	-14	20	
Dibenz(a,h)anthracene	0.8514	0.7382	1.000	0.8670	ug/mL	-13	20	
Benzo(g,h,i)perylene	0.9883	0.8900	1.000	0.9006	ug/mL	-10	20	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA08
Calnum : 577399499001
Units : ug/mL

Name : 8PAHSIM
Date : 04-OCT-2007 14:22
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sj408	577399499008	ICAL 1	04-OCT-2007 14:22	S7213
L2	sj409	577399499009	ICAL 2	04-OCT-2007 14:56	S7214
L3	sj410	577399499010	ICAL 3	04-OCT-2007 15:30	S7215
L4	sj411	577399499011	ICAL 4	04-OCT-2007 16:04	S7216
L5	sj412	577399499012	ICAL 5	04-OCT-2007 16:39	S7217
L6	sj413	577399499013	ICAL 6	04-OCT-2007 17:12	S7218
L7	sj414	577399499014	ICAL 7	04-OCT-2007 17:48	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0279	1.0515	1.0576	1.0897	1.1167	1.1535	1.2380	AVRG		0.90498		1.1050	7	15	0.05	0.99	
2-Methylnaphthalene	0.6403m	0.6568m	0.6877m	0.7160	0.7280m	0.7787	0.8453	AVRG		1.38539		0.7218	10	15	0.05	0.99	
Acenaphthylene	1.7392	1.8386	1.9029	1.9958	2.0197	2.1992	2.3361	AVRG		0.49888		2.0045	10	15	0.05	0.99	
Acenaphthene	1.0019	1.0569	1.0675	1.1020	1.1192	1.2126	1.2895	AVRG		0.89178		1.1214	9	15	0.05	0.99	
Fluorene	1.1914	1.2346	1.2475	1.3164	1.3582	1.4628	1.5782	AVRG		0.74555		1.3413	10	15	0.05	0.99	
Phenanthrene	1.1189m	1.1515	1.1377	1.1762	1.2097	1.2929	1.3921	AVRG		0.82557		1.2113	8	15	0.05	0.99	
Anthracene	0.9378m	1.0065m	1.0433m	1.0988m	1.1294m	1.2291m	1.3229m	AVRG		0.90116		1.1097	12	15	0.05	0.99	
Fluoranthene	1.1865	1.2445	1.2562	1.3463	1.3710	1.4915	1.6034	AVRG		0.73688		1.3571	11	15	0.05	0.99	
Pyrene	1.1893	1.2221	1.2595	1.2855	1.3234	1.3731	1.3996	AVRG		0.77327		1.2932	6	15	0.05	0.99	
Benzo(a)anthracene	1.0258	1.0731	1.0847	1.1222	1.1667	1.2004	1.2265	AVRG		0.88614		1.1285	6	15	0.05	0.99	
Chrysene	1.0339m	1.0823m	1.0962m	1.1245m	1.1405m	1.1794m	1.1936m	AVRG		0.89167		1.1215	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.1368	1.2311	1.2480	1.3220	1.3494	1.4862	1.5129	AVRG		0.75379		1.3266	10	15	0.05	0.99	
Benzo(k)fluoranthene	1.1967m	1.2520m	1.3252m	1.3825m	1.4218m	1.5105m	1.5616m	AVRG		0.72536		1.3786	10	15	0.05	0.99	
Benzo(a)pyrene	1.0597	1.1129	1.1625	1.2451	1.3016	1.4106	1.4795	AVRG		0.79800		1.2531	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2909	1.4000	1.4491	1.5667	1.6263	1.7915	1.8456	AVRG		0.63810		1.5672	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9958	1.0914	1.1341	1.2279	1.2881	1.4330	1.5289	AVRG		0.80467		1.2427	15	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1512	1.2277	1.2880	1.3571	1.3963	1.5107	1.5496	AVRG		0.73834		1.3544	11	15	0.05	0.99	
Nitrobenzene-d5	0.2170	0.2239	0.2350	0.2499	0.2509	0.2690	0.2799	AVRG		4.05662		0.2465	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2568	1.2885	1.3273	1.3749	1.4096	1.5071	1.5747	AVRG		0.71877		1.3913	8	15	0.05	0.99	
Terphenyl-d14	0.9554	0.9851	1.0067	1.0248	1.0466	1.0897	1.1118	AVRG		0.96951		1.0314	5	15	0.05	0.99	

0025239

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-7	0.200	-5	0.500	-4	1.000	-1	2.000	1	5.000	4	10.00	12
2-Methylnaphthalene	0.100	-11	0.200	-9	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	17
Acenaphthylene	0.100	-13	0.200	-8	0.500	-5	1.000	0	2.000	1	5.000	10	10.00	17
Acenaphthene	0.100	-11	0.200	-6	0.500	-5	1.000	-2	2.000	0	5.000	8	10.00	15
Fluorene	0.100	-11	0.200	-8	0.500	-7	1.000	-2	2.000	1	5.000	9	10.00	18
Phenanthrene	0.100	-8	0.200	-5	0.500	-6	1.000	-3	2.000	0	5.000	7	10.00	15
Anthracene	0.100	-15	0.200	-9	0.500	-6	1.000	-1	2.000	2	5.000	11	10.00	19
Fluoranthene	0.100	-13	0.200	-8	0.500	-7	1.000	-1	2.000	1	5.000	10	10.00	18
Pyrene	0.100	-8	0.200	-6	0.500	-3	1.000	-1	2.000	2	5.000	6	10.00	8
Benzo(a)anthracene	0.100	-9	0.200	-5	0.500	-4	1.000	-1	2.000	3	5.000	6	10.00	9
Chrysene	0.100	-8	0.200	-3	0.500	-2	1.000	0	2.000	2	5.000	5	10.00	6
Benzo(b)fluoranthene	0.100	-14	0.200	-7	0.500	-6	1.000	0	2.000	2	5.000	12	10.00	14
Benzo(k)fluoranthene	0.100	-13	0.200	-9	0.500	-4	1.000	0	2.000	3	5.000	10	10.00	13
Benzo(a)pyrene	0.100	-15	0.200	-11	0.500	-7	1.000	-1	2.000	4	5.000	13	10.00	18
Indeno(1,2,3-cd)pyrene	0.100	-18	0.200	-11	0.500	-8	1.000	0	2.000	4	5.000	14	10.00	18
Dibenz(a,h)anthracene	0.100	-20	0.200	-12	0.500	-9	1.000	-1	2.000	4	5.000	15	10.00	23
Benzo(g,h,i)perylene	0.100	-15	0.200	-9	0.500	-5	1.000	0	2.000	3	5.000	12	10.00	14
Nitrobenzene-d5	0.100	-12	0.200	-9	0.500	-5	1.000	1	2.000	2	5.000	9	10.00	14
2-Fluorobiphenyl	0.100	-10	0.200	-7	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	13
Terphenyl-d14	0.100	-7	0.200	-4	0.500	-2	1.000	-1	2.000	1	5.000	6	10.00	8

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

577399499001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198880 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Name : 8PAHSIM
Calnum : 577399499001 Cal Date : 04-OCT-2007

ICV 577399499015 (sj415 04-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1050	0.9959	1.000	0.9013	ug/mL	-10	20	
2-Methylnaphthalene	0.7218	0.6131	1.000	0.8493	ug/mL	-15	20	
Acenaphthylene	2.0045	1.8534	1.000	0.9246	ug/mL	-8	20	
Acenaphthene	1.1214	1.0220	1.000	0.9114	ug/mL	-9	20	
Fluorene	1.3413	1.2206	1.000	0.9100	ug/mL	-9	20	
Phenanthrene	1.2113	1.0804	1.000	0.8920	ug/mL	-11	20	
Anthracene	1.1097	1.0862	1.000	0.9788	ug/mL	-2	20	m
Fluoranthene	1.3571	1.2300	1.000	0.9064	ug/mL	-9	20	
Pyrene	1.2932	1.2487	1.000	0.9656	ug/mL	-3	20	
Benzo(a)anthracene	1.1285	1.0658	1.000	0.9445	ug/mL	-6	20	
Chrysene	1.1215	1.0593	1.000	0.9445	ug/mL	-6	20	
Benzo(b)fluoranthene	1.3266	1.2480	1.000	0.9407	ug/mL	-6	20	
Benzo(k)fluoranthene	1.3786	1.3256	1.000	0.9615	ug/mL	-4	20	m
Benzo(a)pyrene	1.2531	1.1779	1.000	0.9399	ug/mL	-6	20	
Indeno(1,2,3-cd)pyrene	1.5672	1.4401	1.000	0.9189	ug/mL	-8	20	
Dibenz(a,h)anthracene	1.2427	1.1897	1.000	0.9574	ug/mL	-4	20	
Benzo(g,h,i)perylene	1.3544	1.2837	1.000	0.9478	ug/mL	-5	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 10/1UG/ML IDF : 1.0
Seqnum : 517441291015.2 File : uk215 Time : 02-NOV-2007 19:13
Cal : 517441291001 Caldate : 02-NOV-2007
Standards: S7592

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Max %D	Min RF	Flags
Naphthalene	1.0962	1.0045	1.000	0.9164	ug/mL	-8	20	20	0.0500	
2-Methylnaphthalene	0.6649	0.5940	1.000	0.8935	ug/mL	-11	20	20	0.0500	
Acenaphthylene	1.9393	1.8656	1.000	0.9620	ug/mL	-4	20	20	0.0500	
Acenaphthene	1.0726	0.9993	1.000	0.9317	ug/mL	-7	20	20	0.0500	
Fluorene	1.2634	1.1648	1.000	0.9220	ug/mL	-8	20	20	0.0500	
Phenanthrene	1.1846	1.0678	1.000	0.9014	ug/mL	-10	20	20	0.0500	
Anthracene	1.0808	1.1002	1.000	1.018	ug/mL	2	20	20	0.0500	
Fluoranthene	1.1566	1.1099	1.000	0.9596	ug/mL	-4	20	20	0.0500	
Pyrene	1.8268	1.7231	1.000	0.9432	ug/mL	-6	20	20	0.0500	
Benzo(a)anthracene	1.2121	1.1245	1.000	0.9278	ug/mL	-7	20	20	0.0500	
Chrysene	1.2022	1.1778	1.000	0.9797	ug/mL	-2	20	20	0.0500	
Benzo(b)fluoranthene	1.4267	1.2951	1.000	0.9078	ug/mL	-9	20	20	0.0500	
Benzo(k)fluoranthene	1.4780	1.5735	1.000	1.065	ug/mL	6	20	20	0.0500	
Benzo(a)pyrene	1.1606	1.1339	1.000	0.9770	ug/mL	-2	20	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0949	0.9389	1.000	0.8575	ug/mL	-14	20	20	0.0500	
Dibenz(a,h)anthracene	0.8514	0.7382	1.000	0.8670	ug/mL	-13	20	20	0.0500	
Benzo(g,h,i)perylene	0.9883	0.8900	1.000	0.9006	ug/mL	-10	20	20	0.0500	
Nitrobenzene-d5	0.2935	0.2675	1.000	0.9114	ug/mL	-9	20	20	0.0500	
2-Fluorobiphenyl	1.3019	1.2339	1.000	0.9478	ug/mL	-5	20	20	0.0500	
Terphenyl-d14	1.2124	1.1442	1.000	0.9438	ug/mL	-6	20	20	0.0500	

Analyst: AD Date: 11/05/07 Reviewer: JGM Date: 11/06/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 0.5/2.5UG/ML IDF : 1.0
Seqnum : 517445566002.1 File : uk502 Time : 05-NOV-2007 09:34
Cal : 517441291001 Caldate : 02-NOV-2007
Standards: S7215

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0962	1.1585	0.5000	0.5284	ug/mL	6	20	0.0500	m
2-Methylnaphthalene	0.6649	0.6552	0.5000	0.4928	ug/mL	-1	20	0.0500	
Acenaphthylene	1.9393	1.9670	0.5000	0.5071	ug/mL	1	20	0.0500	
Acenaphthene	1.0726	1.0843	0.5000	0.5055	ug/mL	1	20	0.0500	
Fluorene	1.2634	1.2510	0.5000	0.4951	ug/mL	-1	20	0.0500	
Phenanthrene	1.1846	1.1844	0.5000	0.4999	ug/mL	0	20	0.0500	
Anthracene	1.0808	1.0844	0.5000	0.5017	ug/mL	0	20	0.0500	m
Fluoranthene	1.1566	1.1701	0.5000	0.5059	ug/mL	1	20	0.0500	
Pyrene	1.8268	1.6857	0.5000	0.4614	ug/mL	-8	20	0.0500	
Benzo(a)anthracene	1.2121	1.1613	0.5000	0.4790	ug/mL	-4	20	0.0500	
Chrysene	1.2022	1.2016	0.5000	0.4998	ug/mL	0	20	0.0500	m
Benzo(b)fluoranthene	1.4267	1.3077	0.5000	0.4583	ug/mL	-8	20	0.0500	
Benzo(k)fluoranthene	1.4780	1.4987	0.5000	0.5070	ug/mL	1	20	0.0500	
Benzo(a)pyrene	1.1606	1.1015	0.5000	0.4745	ug/mL	-5	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0949	1.0985	0.5000	0.5016	ug/mL	0	20	0.0500	m
Dibenz(a,h)anthracene	0.8514	0.8448	0.5000	0.4961	ug/mL	-1	20	0.0500	m
Benzo(g,h,i)perylene	0.9883	1.0362	0.5000	0.5242	ug/mL	5	20	0.0500	m
Nitrobenzene-d5	0.2935	0.3191	0.5000	0.5437	ug/mL	9	20	0.0500	m
2-Fluorobiphenyl	1.3019	1.3514	0.5000	0.5190	ug/mL	4	20	0.0500	
Terphenyl-d14	1.2124	1.0728	0.5000	0.4424	ug/mL	-12	20	0.0500	

Analyst: AD Date: 11/05/07 Reviewer: JGM Date: 11/06/07

m=manual integration

517445566002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198880 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Run Name : 1.0/5.0 UG/ML IDF : 1.0
Seqnum : 577446943002.1 File : sk602 Time : 06-NOV-2007 09:24
Cal : 577399499001 Caldate : 04-OCT-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1050	1.0466	1.000	0.9471	ug/mL	-5	20	0.0500	
2-Methylnaphthalene	0.7218	0.6859	1.000	0.9502	ug/mL	-5	20	0.0500	m
Acenaphthylene	2.0045	2.0231	1.000	1.009	ug/mL	1	20	0.0500	
Acenaphthene	1.1214	1.1766	1.000	1.049	ug/mL	5	20	0.0500	
Fluorene	1.3413	1.4283	1.000	1.065	ug/mL	6	20	0.0500	
Phenanthrene	1.2113	1.1312	1.000	0.9339	ug/mL	-7	20	0.0500	
Anthracene	1.1097	1.0714	1.000	0.9655	ug/mL	-3	20	0.0500	m
Fluoranthene	1.3571	1.3127	1.000	0.9673	ug/mL	-3	20	0.0500	
Pyrene	1.2932	1.2899	1.000	0.9974	ug/mL	0	20	0.0500	
Benzo(a)anthracene	1.1285	1.0961	1.000	0.9713	ug/mL	-3	20	0.0500	
Chrysene	1.1215	1.1008	1.000	0.9816	ug/mL	-2	20	0.0500	
Benzo(b)fluoranthene	1.3266	1.2958	1.000	0.9768	ug/mL	-2	20	0.0500	
Benzo(k)fluoranthene	1.3786	1.3257	1.000	0.9616	ug/mL	-4	20	0.0500	
Benzo(a)pyrene	1.2531	1.2205	1.000	0.9739	ug/mL	-3	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.5672	1.4038	1.000	0.8958	ug/mL	-10	20	0.0500	
Dibenz(a,h)anthracene	1.2427	1.1068	1.000	0.8906	ug/mL	-11	20	0.0500	
Benzo(g,h,i)perylene	1.3544	1.2265	1.000	0.9056	ug/mL	-9	20	0.0500	m
Nitrobenzene-d5	0.2465	0.2096	1.000	0.8501	ug/mL	-15	20	0.0500	
2-Fluorobiphenyl	1.3913	1.5252	1.000	1.096	ug/mL	10	20	0.0500	
Terphenyl-d14	1.0314	0.9819	1.000	0.9520	ug/mL	-5	20	0.0500	

Analyst: JGM Date: 11/06/07 Reviewer: LLH Date: 11/08/07

m=manual integration

577446943002.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517441291

Date : 11/02/07 Reference : uk215
Sequence : MSBNA02 uk2 Analyzed : 11/02/07 19:13

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	19214	8.32	83159	9.90	41739	12.17	59282	14.12	36943	17.70	23070	19.69
		LOWER LIMIT	9607	7.82	41580	9.40	20870	11.67	29641	13.62	18472	17.20	11535	19.19
		UPPER LIMIT	38428	8.82	166318	10.40	83478	12.67	118564	14.62	73886	18.20	46140	20.19
015	ICV/CCV	10/1UG/ML	19214	8.32	83159	9.90	41739	12.17	59282	14.12	36943	17.70	23070	19.69
016	BLANK	QC413150	17893	8.32	79318	9.90	41702	12.17	58546	14.13	30321	17.70	17991	19.69
017	BS	QC413151	19376	8.32	85667	9.90	44296	12.17	62832	14.12	37349	17.70	23454	19.69
018	BSD	QC413152	19177	8.32	87807	9.90	42735	12.17	60754	14.12	37292	17.70	22566	19.69
019	BLANK	QC413366	17664	8.32	76050	9.89	38174	12.17	54891	14.12	32146	17.70	17657	19.69
020	LCS	QC413367	16851	8.32	73617	9.89	37098	12.17	55280	14.12	35405	17.70	21731	19.69
021	SAMPLE	198837-001	18922	8.32	83680	9.89	42584	12.17	56507	14.12	33089	17.70	22642	19.69
022	MSS	198767-005	19976	8.32	85209	9.89	42484	12.17	61950	14.12	35111	17.70	21932	19.69
023	MS	QC413368	17998	8.32	80006	9.89	39768	12.17	57886	14.12	36563	17.70	23152	19.69
024	MSD	QC413369	18298	8.32	78521	9.89	41467	12.17	59086	14.12	38581	17.70	24094	19.69
025	SAMPLE	198799-001	21856	8.32	97147	9.89	47597	12.17	66643	14.12	33979	17.69	19643	19.69
026	BLANK	QC413563	17825	8.31	75796	9.89	38518	12.17	56684	14.12	31361	17.69	18180	19.69
027	LCS	QC413564	19207	8.32	81221	9.89	40678	12.17	61228	14.12	38875	17.69	22850	19.68
028	SAMPLE	198880-001	18308	8.32	83083	9.90	43912	12.17	59459	14.12	31657	17.70	21379	19.69
029	SAMPLE	198880-002	19025	8.32	82563	9.89	42576	12.17	56510	14.12	30900	17.70	20366	19.69
030	MSS	198903-001	19898	8.31	88726	9.89	44704	12.17	64013	14.12	33438	17.70	20898	19.69
031	SAMPLE	198903-002	24042	8.32	102706	9.89	49070	12.17	65238	14.12	36038	17.70	23925	19.69
032	SAMPLE	198903-003	22598	8.32	101667	9.89	46703	12.17	61665	14.12	33922	17.70	22488	19.69
033	SAMPLE	198903-006	19863	8.31	89545	9.89	46458	12.17	64809	14.12	35378	17.70	23943	19.69

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517445566

Date : 11/05/07
Sequence : MSBNA02 uk5

Reference : uk502
Analyzed : 11/05/07 09:34

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	30899	8.32	125831	9.89	57201	12.17	85581	14.12	58795	17.70	39547	19.69
		LOWER LIMIT	15450	7.82	62916	9.39	28601	11.67	42791	13.62	29398	17.20	19774	19.19
		UPPER LIMIT	61798	8.82	251662	10.39	114402	12.67	171162	14.62	117590	18.20	79094	20.19
002	CCV	0.5/2.5UG/ML	30899	8.32	125831	9.89	57201	12.17	85581	14.12	58795	17.70	39547	19.69
005	SAMPLE	198910-001	25380	8.32	111051	9.89	48811	12.17	75657	14.13	53016	17.70	34334	19.70
008	MS	QC413567	29560	8.32	122669	9.90	61022	12.17	89253	14.13	59914	17.70	37907	19.69
009	MSD	QC413568	27277	8.32	117924	9.90	57458	12.17	84473	14.13	57037	17.70	35845	19.70

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 577446943

Date : 11/06/07
Sequence : MSBNA08 sk6

Reference : sk602
Analyzed : 11/06/07 09:24

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	50827	9.04	183735	10.65	108070	12.88	189020	14.78	194531	18.35	156651	20.28
		LOWER LIMIT	25414	8.54	91868	10.15	54035	12.38	94510	14.28	97266	17.85	78326	19.78
		UPPER LIMIT	101654	9.54	367470	11.15	216140	13.38	378040	15.28	389062	18.85	313302	20.78
002	CCV	1.0/5.0 UG/ML	50827	9.04	183735	10.65	108070	12.88	189020	14.78	194531	18.35	156651	20.28
007	SAMPLE	198880-001	50029	9.05	185368	10.65	101382	12.88	179497	14.78	179656	18.35	153439	20.29
008	SAMPLE	198956-007	52708	9.04	196108	10.65	130857	12.88	268951	14.78	245809	18.35	212964	20.29
009	MSS	198956-001	52178	9.05	197197	10.66	128799	12.88	263523	14.78	238983	18.35	209685	20.29
010	SAMPLE	198956-005	54203	9.05	201125	10.65	128870	12.88	265549	14.79	240574	18.35	208006	20.29
013	SAMPLE	198956-004	47733	9.04	167358	10.66	105780	12.88	180542	14.78	184901	18.35	162527	20.29
014	SAMPLE	198956-006	45829	9.05	163689	10.65	98325	12.88	171087	14.79	174645	18.35	149822	20.29
015	MS	QC413742	45798	9.05	164516	10.66	97845	12.88	169899	14.78	175287	18.35	154130	20.29
016	MSD	QC413743	45908	9.05	167747	10.65	98250	12.88	171693	14.78	177614	18.35	155499	20.29
017	SAMPLE	198956-003	51196	9.05	185008	10.66	113855	12.88	198150	14.78	198738	18.35	171668	20.29

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517441291

Instrument : MSBNA02 Begun : 11/02/07 10:51
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk201	TUN	DFTPP/PEM 50UG/ML			11/02/07 10:51	1.0	1	
002	uk202	TUN	DFTPP/PEM 50UG/ML			11/02/07 11:36	1.0	1	
003	uk203	CCV	RT CHECK			11/02/07 12:01	1.0	2	21:DIOXANE14=74
004	uk204	CCV	RT CHECK			11/02/07 12:55	1.0	2	15:DIOXANE14=64
005	uk205	TUN	DFTPP/PEM 50UG/ML			11/02/07 13:40	1.0	1	
006	uk206	TUN	DFTPP/PEM 50UG/ML			11/02/07 14:11	1.0	1	
007	uk207	ICAL	0.1/0.5UG/ML PAHDIOX			11/02/07 14:33	1.0	3	
008	uk208	ICAL	0.2/1.0UG/ML PAHDIOX			11/02/07 15:14	1.0	4	
009	uk209	ICAL	0.5/2.5UG/ML PAHDIOX			11/02/07 15:55	1.0	5	
010	uk210	ICAL	1.0/5.0UG/ML PAHDIOX			11/02/07 16:31	1.0	6	
011	uk211	ICAL	2.0/10.0UG/ML PAHDIO			11/02/07 17:07	1.0	7	
012	uk212	ICAL	5.0/25.0UG/ML PAHDIO			11/02/07 17:43	1.0	8	
013	uk213	ICAL	10.0/50.0UG/ML PAHDI			11/02/07 18:19	1.0	2	
014	uk214	TUN	DFTPP/PEM 50UG/ML			11/02/07 18:51	1.0	1	
015	uk215	ICV/CCV	10/1UG/ML			11/02/07 19:13	1.0	9	
016	uk216	BLANK	QC413150	Water	131165	11/02/07 20:03	1.0	10	
017	uk217	BS	QC413151	Water	131165	11/02/07 20:40	1.0	10	
018	uk218	BSD	QC413152	Water	131165	11/02/07 21:18	1.0	10	
019	uk219	BLANK	QC413366	Soil	131224	11/02/07 21:55	1.0	10	
020	uk220	LCS	QC413367	Soil	131224	11/02/07 22:32	1.0	10	
021	uk221	SAMPLE	198837-001	Soil	131224	11/02/07 23:10	1.0	10	
022	uk222	MSS	198767-005	Soil	131224	11/02/07 23:47	1.0	10	
023	uk223	MS	QC413368	Soil	131224	11/03/07 00:23	1.0	10	
024	uk224	MSD	QC413369	Soil	131224	11/03/07 00:59	1.0	10	
025	uk225	SAMPLE	198799-001	Water	131165	11/03/07 01:35	1.0	10	
026	uk226	BLANK	QC413563	Soil	131279	11/03/07 02:11	1.0	10	
027	uk227	LCS	QC413564	Soil	131279	11/03/07 02:46	1.0	10	
028	uk228	SAMPLE	198880-001	Soil	131279	11/03/07 03:22	2.0	10	
029	uk229	SAMPLE	198880-002	Soil	131279	11/03/07 03:58	2.0	10	
030	uk230	MSS	198903-001	Soil	131279	11/03/07 04:35	1.0	10	
031	uk231	SAMPLE	198903-002	Soil	131279	11/03/07 05:11	3.0	10	
032	uk232	SAMPLE	198903-003	Soil	131279	11/03/07 05:48	5.0	10	
033	uk233	SAMPLE	198903-006	Soil	131279	11/03/07 06:25	1.0	10	

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592 10=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517445566

Instrument : MSBNA02 Begun : 11/05/07 09:34
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk501	TUN	DFTPP/PEM 50UG/ML			11/05/07 10:06	1.0	1	
002	uk502	CCV	0.5/2.5UG/ML			11/05/07 09:34	1.0	2	
003	uk503	SAMPLE	198743-021	Soil	131279	11/05/07 10:19	1.0	3	
004	uk504	SAMPLE	198743-021	Soil	131279	11/05/07 11:05	1.0	4	
005	uk505	SAMPLE	198910-001	Soil	131279	11/05/07 11:44	1.0	3	
006	uk506	SAMPLE	198743-006	Soil	131224	11/05/07 12:22	1.0	4	
007	uk507	SAMPLE	198743-011	Soil	131224	11/05/07 12:58	100.0	4	2:BZBF=12
008	uk508	MS	QC413567	Soil	131279	11/05/07 13:35	1.0	4	
009	uk509	MSD	QC413568	Soil	131279	11/05/07 14:13	1.0	4	
010	uk510	CHECK	SIMSURR SPIKECHECK			11/05/07 14:51	1.0	5 4	
011	uk511	SAMPLE	198743-020	Soil	131279	11/05/07 15:28	1.0	4	7:BZBF=42
012	uk512	SAMPLE	198743-026	Soil	131279	11/05/07 16:04	1.0	4	
013	uk513	SAMPLE	198743-024	Soil	131279	11/05/07 16:42	1.0	4	
014	uk514	SAMPLE	198743-007	Soil	131279	11/05/07 17:19	5.0	4	
015	uk515	SAMPLE	198743-019	Soil	131279	11/05/07 17:56	2.0	4	
016	uk516	SAMPLE	198743-022	Soil	131279	11/05/07 18:32	50.0	4	6:BZBF=33
017	uk517	SAMPLE	198743-023	Soil	131279	11/05/07 19:12	50.0	4	7:BZBF=37
018	uk518	SAMPLE	198743-025	Soil	131279	11/05/07 19:50	2.0	4	
019	uk519	MSS	198743-017	Soil	131279	11/05/07 20:31	10.0	4	

Standards used: 1=S7320 2=S7215 3=S7386 4=S7591 5=S7612

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577399499

Instrument : MSBNA08 Begun : 10/04/07 10:19
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	sj402	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:19	1.0	1
003	sj403	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:39	1.0	1
004	sj404	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:53	1.0	1
005	sj405	CCV	CCV RT CHECK			10/04/07 12:22	1.0	2
006	sj406	CCV	CCV RT CHECK			10/04/07 13:22	1.0	3
007	sj407	TUN	DFTPP			10/04/07 14:02	1.0	1
008	sj408	ICAL	ICAL 1			10/04/07 14:22	1.0	4
009	sj409	ICAL	ICAL 2			10/04/07 14:56	1.0	5
010	sj410	ICAL	ICAL 3			10/04/07 15:30	1.0	3
011	sj411	ICAL	ICAL 4			10/04/07 16:04	1.0	2
012	sj412	ICAL	ICAL 5			10/04/07 16:39	1.0	6
013	sj413	ICAL	ICAL 6			10/04/07 17:12	1.0	7
014	sj414	ICAL	ICAL 7			10/04/07 17:48	1.0	8
015	sj415	ICV	ICV			10/04/07 18:23	1.0	9
016	sj416	TUN	DFTPP			10/04/07 18:58	1.0	1
017	sj417	CCV	CCV 4			10/04/07 19:18	1.0	2
018	sj418	SAMPLE	198013-014	Soil	130099	10/04/07 19:58	1.0	10
019	sj419	BLANK	QC408688	Soil	130099	10/04/07 20:32	1.0	10
020	sj420	LCS	QC408689	Soil	130099	10/04/07 21:07	1.0	10
021	sj421	SAMPLE	198013-016	Soil	130099	10/04/07 21:42	1.0	10
022	sj422	MSS	198013-018	Soil	130099	10/04/07 22:16	1.0	10
023	sj423	MS	QC408690	Soil	130099	10/04/07 22:51	1.0	10
024	sj424	MSD	QC408691	Soil	130099	10/04/07 23:25	1.0	10
025	sj425	SAMPLE	198013-008	Soil	130099	10/04/07 23:59	3.0	10
026	sj426	SAMPLE	198013-017	Soil	130099	10/05/07 00:33	1.0	10
027	sj427	SAMPLE	198013-011	Soil	130099	10/05/07 01:07	1.0	10
028	sj428	SAMPLE	198004-009	Water	130094	10/05/07 01:41	1.0	10

Standards used: 1=S7320 2=S7216 3=S7215 4=S7213 5=S7214 6=S7217 7=S7218 8=S7219 9=S6709 10=S7212

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577446943

Instrument : MSBNA08 Begun : 11/06/07 09:03
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	sk601	TUN	DFTPP/PEM 50UG/ML			11/06/07 09:03	1.0	1	
002	sk602	CCV	1.0/5.0 UG/ML			11/06/07 09:24	1.0	2	
003	sk603	SAMPLE	198743-020	Soil	131279	11/06/07 09:58	10.0	3	
004	sk604	SAMPLE	198743-011	Soil	131224	11/06/07 10:32	200.0	3	
005	sk605	SAMPLE	198743-022	Soil	131279	11/06/07 11:06	200.0	3	
006	sk606	SAMPLE	198743-023	Soil	131279	11/06/07 11:48	300.0	3	
007	sk607	SAMPLE	198880-001	Soil	131279	11/06/07 12:22	20.0	3	
008	sk608	SAMPLE	198956-007	Soil	131320	11/06/07 12:55	3.0	3	
009	sk609	MSS	198956-001	Soil	131320	11/06/07 13:29	3.0	3	
010	sk610	SAMPLE	198956-005	Soil	131320	11/06/07 14:03	3.0	3	
012	sk612	SAMPLE	198743-022	Soil	131279	11/06/07 15:30	200.0	3	
013	sk613	SAMPLE	198956-004	Soil	131320	11/06/07 16:04	1.0	3	
014	sk614	SAMPLE	198956-006	Soil	131320	11/06/07 16:38	3.0	3	
015	sk615	MS	QC413742	Soil	131320	11/06/07 17:12	3.0	3	
016	sk616	MSD	QC413743	Soil	131320	11/06/07 17:45	3.0	3	
017	sk617	SAMPLE	198956-003	Soil	131320	11/06/07 18:19	1.0	3	
018	sk618	TUN	DFTPP/PEM 50UG/ML			11/06/07 20:25	1.0	1	
019	sk619	CCV	1.0/5.0 UG/ML			11/06/07 20:46	1.0	2	
020	sk620	BLANK	QC413613	Water	131291	11/06/07 21:31	1.0	3	3:PHEND14=52
021	sk621	BS	QC413614	Water	131291	11/06/07 22:05	40.0	3	
022	sk622	BSD	QC413615	Water	131291	11/06/07 22:39	40.0	3	
023	sk623	SAMPLE	198904-001	Water	131291	11/06/07 23:13	1.0	3	3:PHEND14=46
024	sk624	SAMPLE	198904-002	Water	131291	11/06/07 23:46	1.0	3	3:PHEN2F=44
025	sk625	SAMPLE	198904-003	Water	131291	11/07/07 00:19	1.0	3	3:PHEN2F=43
026	sk626	SAMPLE	198904-004	Water	131291	11/07/07 00:53	1.0	3	4:DIOXANE14=100
027	sk627	SAMPLE	198904-005	Water	131291	11/07/07 01:27	1.0	3	3:PHEN2F=40

Standards used: 1=S7320 2=S7216 3=S7591

REPORTING SUMMARY FOR 198880 MSSIM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FL	PHAN	ANTH	FLA	PYR	BZAA	CHRY	BZBF	BZKF	BZAP	INP1	DBAH	BZGH	NO2B	PHEN	PHEN2
198880-001	MSBNA02	11/03/07 03:22	2.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
198880-001	MSBNA08	11/06/07 12:22	20.0	+																	+		
198880-002	MSBNA02	11/03/07 03:58	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413563	MSBNA02	11/03/07 02:11	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413564	MSBNA02	11/03/07 02:46	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413567	MSBNA02	11/05/07 13:35	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413568	MSBNA02	11/05/07 14:13	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SAMPLE PREPARATION SUMMARY

Batch # : 131279
Started By : MJD
Method : 3550B
Spike #1 ID : S7474
Prep Date : 02-NOV-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7358
Analysis : 8270-SIM
Finished By : KR
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198743-007		Soil	30.03	1	1	0.0333		1				8270-SIM	
198743-017		Soil	30.28	1	1	0.03303		1				8270-SIM	MSS
198743-019		Soil	30.35	1	1	0.03295		1				8270-SIM	
198743-020		Soil	30.05	1	1	0.03328		1				8270-SIM	
198743-021		Soil	30.09	1	1	0.03323		1				8270-SIM	
198743-022		Soil	30.38	1	1	0.03292		1				8270-SIM	
198743-023		Soil	30.01	1	1	0.03332		1				8270-SIM	
198743-024		Soil	30.22	1	1	0.03309		1				8270-SIM	
198743-025		Soil	30.22	1	1	0.03309		1				8270-SIM	
198743-026		Soil	30.39	1	1	0.03291		1				8270-SIM	
198880-001		Soil	30.01	1	1	0.03332		1				8270-SIM	
198880-002		Soil	30.08	1	1	0.03324		1				8270-SIM	
198903-001		Soil	30.26	1	1	0.03305		1				8270-SIM	MSS
198903-002		Soil	30.2	1	1	0.03311		1				8270-SIM	
198903-003		Soil	30.22	1	1	0.03309		1				8270-SIM	
198903-006		Soil	30.03	1	1	0.0333		1				8270-SIM	
198910-001		Soil	30.07	1	1	0.03326		1				8270-SIM	
QC413563	BLANK	Soil	30.28	1	1	0.03303		1				8270-SIM	
QC413564	LCS	Soil	30.08	1	1	0.03324		1	1			8270-SIM	
QC413565	MS	Soil	30.06	1	1	0.03327		1	1			8270-SIM	
QC413566	MSD	Soil	30.02	1	1	0.03331		1	1			8270-SIM	
QC413567	MS	Soil	30.09	1	1	0.03323		1	1			8270-SIM	
QC413568	MSD	Soil	30.13	1	1	0.03319		1	1			8270-SIM	

AD 11/05/07 : Weights and volumes reviewed.

AD 11/05/07 : MSS 198743-017 will be analyzed at >/= 10x. MS/MSD QC413565/6 would be D.O.

Analyst: AD Date: 11/05/07 Reviewer: JGM Date: 11/05/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 96 **BK 2560**

LIMS Batch No: 131279
LIMS Analysis 8270-SIM
Date Extracted: 11/2/07

Extraction Method:
☒ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198743-007A	30.03	1.0		
	017C	30.28			MSS
	019A	30.35			
	020	30.05			
5	021	30.09			
	022	30.38			
	023	30.01			
	024	30.22			
	025	30.22			
10	026 ↓	30.39			
	198880-001G	30.01			
	↓ 002A	30.08			
	198903-001N	30.26			MSS
	002G	30.20			
15	003	30.22			
	006 ↓	30.03			
	198910-001A	30.07			
	MB QC413563	30.28			
	LCS 4	30.08			
20	MS 5	30.06			198743-007
	MSD 6	30.02			↓
	MS 7	30.09			198903-001
	MSD ↓ 8	30.13	↓		↓
			KR 11/2/07		

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM47158737	MJD 11/2/07
1.0 mL of surrogate solution was added to all samples	57478B	
1.0 mL of matrix spiking solution was added to all spikes	57958B	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM47092	
Acetone	EM 47154	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	11/2/07 KR
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47073734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓	

11/2/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/2/07
Reviewed by / Date

Sample ID			Weight(g)	Analysis	Batch #	Comments
MSD			30.08	8270-SIM		198767-005K
					RML 10/29/07	
LCS			30.25	8081		EM47158737
MS			30.21			198743-017A
MSD			30.10			
					RML 10/29/07	
198743	-001	A	30.26	8270-SIM		
	-002		30.05			
	-003		30.32			
	-004		30.48			
	-005		30.11			
	-006		30.10			
	-007		30.06			
	-008		30.03			
	-009		30.04			
	-010		30.04			
	-011		30.15			
	-012		30.34			
	-013		30.29			
	-014		30.14			
	-015		30.26			
	-016		30.11			
	-017	C	30.28		131279	MSS
	-018	A	30.45			
	-019		30.35		131279	
	-020		30.05			
	-021		30.09			
	-022		30.38			
	-023		30.01			
	-024		30.22			
	-025		30.22			
	-026		30.39			
MB			30.20			EM47158737
LCS			30.02			
MS			30.06		131279	198743-017C
MSD			30.02			
					RML 10/29/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page 111

Sample ID	Weight(g)	Analysis	Batch #	Comments
198743-013 A	30.32	8270-SIM		
-014	30.22			
-015	30.03			
-016	30.08			
-018	30.02			
			KML 11/1/07	
198790-001 A	30.04	PCB		
-002	30.34			MSS (oily, sandy)
-003	30.01			
-007	30.41			
MB	30.10			EM47158737
LCS	30.29			↓
MS	30.03			198790-002A
MSD	30.19			↓
			KML 11/1/07	
198790-001 A	30.13	8270-SIM		
-002	30.14			MSS (oily, sandy)
-003	30.18			
-007	30.20			
MB	30.02			EM47158737
LCS	30.12			↓
MS	30.06			198790-002A
MSD	30.22			↓
			KML 11/1/07	
198903-001 N	30.26	8270 SIM	131279	MSS (DARK, SANDY)
-002 G	30.20	8270 SIM		
-003	30.22			
-006	30.03			
MB	30.28			EM47158737
LCS	30.08			↓
MS	30.09			198903-001 N
MSD	30.13			↓
			ECB 11/2/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
198880-001 G	30.01	Sim	13/279	
↓ -002 A	30.08	↓	↓	
			ECB 11/2/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
198903-001 N	50.29	TEHM		MSS
-002 G	50.26			
-003 ↓	50.28			
-006	50.34			
MB	50.27			EM47,50737
LCS	50.31			↓
MS	50.03			198903-001N
MSD	50.39			↓
			KM 11/2/07	
198910-001A	30.07	8270SIM	131279	
			EJB 11/2/07	
198743-007A	30.03	8270 SIM	131279	
			KR 11/2/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

METALS DATA

WATER

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198880	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX357RB358	Diln Fac:	1.000
Lab ID:	198880-004	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	0.96	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	1.4	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Barium	3.9 J	5.0	0.32	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	0.12	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	0.36	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Chromium	0.93 J	5.0	0.33	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	0.31	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Copper	3.6 J	5.0	1.6	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Lead	3.9	3.4	1.1	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Mercury	ND	0.20	0.045	131311	11/05/07	11/05/07	METHOD	EPA 7470A
Molybdenum	ND	5.0	1.4	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Nickel	0.76 J	5.0	0.65	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Selenium	ND	10	2.0	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Silver	ND	5.0	0.75	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Thallium	ND	10	1.1	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	0.61	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B
Zinc	5.4 J	20	3.1	131530	11/09/07	11/12/07	EPA 3010A	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	131311
Lab ID:	QC413686	Prepared:	11/05/07
Matrix:	Water	Analyzed:	11/05/07
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.045

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

42.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC414614	Batch#:	131530
Matrix:	Water	Prepared:	11/09/07
Units:	ug/L	Analyzed:	11/12/07

Analyte	Result	RL	MDL
Antimony	ND	10	0.96
Arsenic	ND	5.0	1.4
Barium	0.37 J	5.0	0.32
Beryllium	ND	2.0	0.12
Cadmium	ND	5.0	0.36
Chromium	ND	5.0	0.33
Cobalt	ND	5.0	0.31
Copper	ND	5.0	1.6
Lead	ND	3.4	1.1
Molybdenum	ND	5.0	1.4
Nickel	ND	5.0	0.65
Selenium	ND	10	2.0
Silver	ND	5.0	0.75
Thallium	ND	10	1.1
Vanadium	ND	5.0	0.61
Zinc	ND	20	3.1

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

70.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	131311
Matrix:	Water	Prepared:	11/05/07
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC413687	5.000	4.880	98	80-120		
BSD	QC413688	5.000	5.120	102	80-120	5	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	131530
Units:	ug/L	Prepared:	11/09/07
Diln Fac:	1.000	Analyzed:	11/12/07

Type: BS Lab ID: QC414615

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	511.1	102	80-120
Arsenic	100.0	107.4	107	80-120
Barium	2,000	2,040	102	80-120
Beryllium	50.00	53.35	107	80-120
Cadmium	50.00	53.61	107	80-120
Chromium	200.0	208.7	104	80-120
Cobalt	500.0	499.9	100	80-120
Copper	250.0	251.6	101	80-120
Lead	100.0	101.3	101	80-120
Molybdenum	400.0	423.1	106	80-120
Nickel	500.0	513.5	103	80-120
Selenium	100.0	106.3	106	80-120
Silver	50.00	49.30	99	80-120
Thallium	100.0	105.3	105	80-120
Vanadium	500.0	522.3	104	80-120
Zinc	500.0	527.9	106	80-120

Type: BSD Lab ID: QC414616

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	506.8	101	80-120	1	20
Arsenic	100.0	108.1	108	80-120	1	20
Barium	2,000	2,031	102	80-120	0	20
Beryllium	50.00	53.42	107	80-120	0	20
Cadmium	50.00	53.24	106	80-120	1	20
Chromium	200.0	205.2	103	80-120	2	20
Cobalt	500.0	495.1	99	80-120	1	20
Copper	250.0	250.2	100	80-120	1	20
Lead	100.0	99.83	100	80-120	1	20
Molybdenum	400.0	420.7	105	80-120	1	20
Nickel	500.0	501.5	100	80-120	2	20
Selenium	100.0	106.3	106	80-120	0	20
Silver	50.00	48.03	96	80-120	3	20
Thallium	100.0	104.5	104	80-120	1	20
Vanadium	500.0	514.6	103	80-120	1	20
Zinc	500.0	521.7	104	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	131311
Field ID:	ZZZZZZZZZZ	Sampled:	10/30/07
MSS Lab ID:	198836-001	Received:	10/30/07
Matrix:	Water	Prepared:	11/05/07
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC413693	<0.04502	5.000	5.350	107	80-120		
MSD	QC413694		5.000	5.570	111	80-120	4	20

RPD= Relative Percent Difference

46.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	131530
MSS Lab ID:	198904-001	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Prepared:	11/09/07
Diln Fac:	1.000	Analyzed:	11/12/07

Type: MS Lab ID: QC414617

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.9637	500.0	515.2	103	80-120
Arsenic	<1.387	100.0	107.4	107	80-120
Barium	126.2	2,000	2,123	100	80-120
Beryllium	0.3045	50.00	53.19	106	80-120
Cadmium	<0.3555	50.00	52.48	105	80-120
Chromium	2.859	200.0	202.1	100	80-120
Cobalt	<0.3112	500.0	462.1	92	80-120
Copper	3.774	250.0	246.5	97	80-120
Lead	<1.150	100.0	96.26	96	80-120
Molybdenum	2.499	400.0	417.2	104	80-120
Nickel	0.9512	500.0	465.2	93	80-120
Selenium	7.971	100.0	114.0	106	80-120
Silver	<0.7500	50.00	47.61	95	80-120
Thallium	5.240	100.0	104.4	99	80-120
Vanadium	4.619	500.0	512.6	102	80-120
Zinc	12.82	500.0	526.9	103	80-120

Type: MSD Lab ID: QC414618

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	516.5	103	80-120	0	20
Arsenic	100.0	107.8	108	80-120	0	20
Barium	2,000	2,138	101	80-120	1	20
Beryllium	50.00	53.33	106	80-120	0	20
Cadmium	50.00	52.27	105	80-120	0	20
Chromium	200.0	201.5	99	80-120	0	20
Cobalt	500.0	461.6	92	80-120	0	20
Copper	250.0	248.4	98	80-120	1	20
Lead	100.0	95.08	95	80-120	1	20
Molybdenum	400.0	419.4	104	80-120	1	20
Nickel	500.0	463.2	92	80-120	0	20
Selenium	100.0	113.2	105	80-120	1	20
Silver	50.00	47.28	95	80-120	1	20
Thallium	100.0	104.2	99	80-120	0	20
Vanadium	500.0	512.8	102	80-120	0	20
Zinc	500.0	521.2	102	80-120	1	20

RPD= Relative Percent Difference

72.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131311
MSS Lab ID:	198836-001	Sampled:	10/30/07
Lab ID:	QC413692	Received:	10/30/07
Matrix:	Water	Analyzed:	11/05/07

MSS Result	MSS RL	Result	RL	% Diff	Lim
ND	0.2000	ND	1.000	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

45.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131530
MSS Lab ID:	198904-001	Sampled:	10/31/07
Lab ID:	QC414619	Received:	11/01/07
Matrix:	Water	Analyzed:	11/12/07
Units:	ug/L		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	ND	10.00	ND	25.00	NC	10
Arsenic	ND	5.000	ND	25.00	NC	10
Barium	126.2	5.000	125.2	25.00	1	10
Beryllium	0.3045	2.000	ND	10.00	NC	10
Cadmium	ND	5.000	ND	25.00	NC	10
Chromium	2.859	5.000	2.296 J	25.00	NC	10
Cobalt	ND	5.000	ND	25.00	NC	10
Copper	3.774	5.000	ND	25.00	NC	10
Lead	ND	3.449	ND	17.24	NC	10
Molybdenum	2.499	5.000	ND	25.00	NC	10
Nickel	0.9512	5.000	ND	25.00	NC	10
Selenium	7.971	10.00	11.27 J	29.79	NC	10
Silver	ND	5.000	ND	25.00	NC	10
Thallium	5.240	10.00	ND	25.00	NC	10
Vanadium	4.619	5.000	3.803 J	25.00	NC	10
Zinc	12.82	20.00	ND	100.0	NC	10

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

73.0

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum : 87455659136
File : 111207ar
IDF : 1.0
Lab ID : 198904-001
Matrix : Water
Batch : 131530
Time : 12-NOV-2007 19:17
Cal : 87455659001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum : 87455659140
File : 111207ar
IDF : 1.0
Lab ID : QC414620
Matrix : Water
Batch : 131530
Time : 12-NOV-2007 19:31
Cal : 87455659001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S6920 (100X), S6921 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	117.5	R	2000	2060	R	97	75-125	u
Antimony	ND	A	500.0	440.5	A	88	75-125	u
Arsenic	ND	A	100.0	103.1	A	103	75-125	u
Barium	126.2	A	2000	2085	A	98	75-125	u
Beryllium	0.3045	A	50.00	53.06	A	106	75-125	u
Cadmium	ND	A	50.00	51.63	A	103	75-125	u
Calcium	67050	R	20000	83000	R	80	75-125	u
Chromium	2.859	A	200.0	200.9	A	99	75-125	u
Cobalt	ND	A	500.0	457.5	A	91	75-125	u
Copper	3.774	A	250.0	243.8	A	96	75-125	u
Iron	225.0	R	1000	1183	R	96	75-125	u
Lead	ND	A	100.0	92.27	A	92	75-125	u **y**
Magnesium	44760	R	20000	61600	R	84	75-125	u
Manganese	14.75	A	50.00	63.90	A	98	75-125	u
Molybdenum	2.499	A	400.0	408.6	A	102	75-125	u
Nickel	0.9512	A	500.0	460.0	A	92	75-125	u
Potassium	3978	R	10000	13720	R	97	75-125	u
Selenium	7.971	A	100.0	112.2	A	104	75-125	u
Silver	ND	A	50.00	46.84	A	94	75-125	u
Sodium	76890	R	20000	91750	R	**74***	75-125	u
Thallium	5.240	A	100.0	104.0	A	99	75-125	u
Vanadium	4.619	A	500.0	506.6	A	100	75-125	u
Zinc	12.82	A	500.0	517.4	A	101	75-125	u
Boron	461.2	A	1000	1472	A	101	75-125	u
Tin	ND	A	1000	949.9	A	95	75-125	u
Titanium	2.673	A	1000	1023	A	102	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3334698	3032753	-9.05

u=use y=RL raised

87455659140

CURTIS & TOMPKINS SERIAL DILUTION FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum : 87455659136
File : 111207ar
IDF : 1.0
Lab ID : 198904-001
Matrix : Water
Batch : 131530
Time : 12-NOV-2007 19:17
Cal : 87455659001
Units : ug/L

Type : SER
Inst : MET08
Seqnum : 87455659139
File : 111207ar
IDF : 5.0
Lab ID : QC414619
Matrix : Water
Batch : 131530
Time : 12-NOV-2007 19:27
Cal : 87455659001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
SER: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

Analyte	MSS	Ch	RL	SER	Ch	RL	%D	Lim	Flags
Aluminum	117.5	R	100.0	125.6 J	R	500.0		10	u
Antimony	ND	A	10.00	ND	A	25.00		10	u
Arsenic	ND	A	5.000	ND	A	25.00		10	u
Barium	126.2	A	5.000	125.2	A	25.00	1	10	u
Beryllium	0.3045 J	A	2.000	ND	A	10.00		10	u
Cadmium	ND	A	5.000	ND	A	25.00		10	u
Calcium	67050	R	500.0	67600	R	1000	1	10	u
Chromium	2.859 J	A	5.000	2.296 J	A	25.00		10	u
Cobalt	ND	A	5.000	ND	A	25.00		10	u
Copper	3.774 J	A	5.000	ND	A	25.00		10	u
Iron	225.0	R	100.0	376.7 J	R	500.0		10	u
Lead	ND	A	3.449	ND	A	**17.24**		10	u **y**
Magnesium	44760	R	500.0	44470	R	1000	1	10	u
Manganese	14.75	A	5.000	14.08 J	A	25.00		10	u
Molybdenum	2.499 J	A	5.000	ND	A	25.00		10	u
Nickel	0.9512 J	A	5.000	ND	A	25.00		10	u
Potassium	3978	R	500.0	3293	R	2500	**17***	10	u
Selenium	7.971 J	A	10.00	11.27 J	A	29.79		10	u
Silver	ND	A	5.000	ND	A	25.00		10	u
Sodium	76890	R	500.0	77040	R	2500	0	10	u
Thallium	5.240 J	A	10.00	ND	A	25.00		10	u
Vanadium	4.619 J	A	5.000	3.803 J	A	25.00		10	u
Zinc	12.82 J	A	20.00	ND	A	100.0		10	u
Boron	461.2	A	100.0	437.5 J	A	500.0		10	u
Tin	ND	A	40.00	ND	A	200.0		10	u
Titanium	2.673	A	10.00	ND	A	50.00		10	u

ISTD (ICAL 002)	Ch	ICAL Abund	SER Abund	%Drift
Yttrium	A	3334698	3219439	-3.46

u=use y=RL raised

87455659139

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87455659001
Units : ug/L

Reviewer : ---
Date : 12-NOV-2007 10:19
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111207ar	87455659002	CRIM08	12-NOV-2007 10:23	S7555
L2	111207ar	87455659003	CS100	12-NOV-2007 10:27	S7382
L3	111207ar	87455659004	CS1K	12-NOV-2007 10:30	S7381
L4	111207ar	87455659005	CS10K	12-NOV-2007 10:33	S7383
L5	111207ar	87455659006	CS100K	12-NOV-2007 10:36	S7674

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	28.812	25.348	24.861	25.100		LOR0	0.00000	0.03984		26.030	1.000	0.995	
Arsenic	A	13.111	15.523	15.261	14.321		LOR0	0.00000	0.06978		14.554	1.000	0.995	
Barium	A	410.17	414.35	406.56	398.94		LOR0	0.00000	0.00251		407.51	1.000	0.995	
Beryllium	A	3051.9	3091.9	3064.8			LOR0	0.00000	3.26E-4		3069.5	1.000	0.995	
Boron	A	144.46		156.63	159.88		LOR0	0.00000	0.00626		153.66	1.000	0.995	
Cadmium	A	171.99	177.82	179.64	170.63		LOR0	0.00000	0.00586		175.02	1.000	0.995	
Chromium	A	64.792	66.768	66.476	64.709		LOR0	0.00000	0.01545		65.686	1.000	0.995	
Cobalt	A	101.73	106.06	109.76	106.38		LOR0	0.00000	0.00940		105.98	1.000	0.995	
Copper	A	361.43	421.30	438.79	441.12		LOR0	0.00000	0.00227		415.66	1.000	0.995	
Lead	A	25.224	37.742	37.455	37.215		LOR0	0.00000	0.02687		34.409	1.000	0.995	
Manganese	A	1279.4	1334.3	1303.2	1252.4		LOR0	0.00000	7.98E-4		1292.3	1.000	0.995	
Molybdenum	A	27.766	30.406	30.094	29.308		LOR0	0.00000	0.03411		29.394	1.000	0.995	
Nickel	A	34.963	35.579	36.993	35.810		LOR0	0.00000	0.02792		35.836	1.000	0.995	
Selenium	A	23.338	22.066	21.403	21.677		LOR0	0.00000	0.04614		22.121	1.000	0.995	
Silver	A	466.39	483.65	486.12	485.54		LOR0	0.00000	0.00206		480.42	1.000	0.995	
Thallium	A	9.0632	11.765	11.868	11.521		LOR0	0.00000	0.08677		11.054	1.000	0.995	
Tin	A	15.642	16.378	17.516	17.289		LOR0	0.00000	0.05783		16.706	1.000	0.995	
Titanium	A	1254.8	1304.0	1292.7	1259.6		LOR0	0.00000	7.94E-4		1277.8	1.000	0.995	
Vanadium	A	111.68	116.35	115.86	115.43		LOR0	0.00000	0.00866		114.83	1.000	0.995	
Zinc	A	91.752	61.905	59.345	57.791		LOR0	0.00000	0.01730		67.698	1.000	0.995	
Aluminum	R	1.7553		1.9091	1.6862	1.7380	LOR0	0.00000	0.57553		1.7722	1.000	0.995	
Calcium	R	17.339		18.920	15.431	16.017	LOR0	0.00000	0.06246		16.927	1.000	0.995	
Iron	R	13.661		14.558	12.456	12.977	LOR0	0.00000	0.07709		13.413	1.000	0.995	
Magnesium	R	2.0056		2.1597	1.8329	1.9563	LOR0	0.00000	0.51148		1.9886	1.000	0.995	
Potassium	R	3.5414		4.7703	4.1459	4.4357	LOR0	0.00000	0.22559		4.2233	1.000	0.995	
Sodium	R	12.167		13.674	11.652	11.953	LOR0	0.00000	0.08368		12.362	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	15	100.0	1	1000	-1	10000	0		
Arsenic	A	5.000	-9	100.0	8	1000	6	10000	0		
Barium	A	5.000	3	100.0	4	1000	2	10000	0		
Beryllium	A	2.000	0	100.0	1	1000	0				
Boron	A	100.0	-10			1000	-2	10000	0		
Cadmium	A	5.000	1	100.0	4	1000	5	10000	0		
Chromium	A	5.000	0	100.0	3	1000	3	10000	0		
Cobalt	A	5.000	-4	100.0	0	1000	3	10000	0		
Copper	A	5.000	-18	100.0	-4	1000	-1	10000	0		
Lead	A	3.000	-32	100.0	1	1000	1	10000	0		
Manganese	A	5.000	2	100.0	6	1000	4	10000	0		
Molybdenum	A	5.000	-5	100.0	4	1000	3	10000	0		
Nickel	A	5.000	-2	100.0	-1	1000	3	10000	0		
Selenium	A	5.000	8	100.0	2	1000	-1	10000	0		
Silver	A	5.000	-4	100.0	0	1000	0	2000	0		
Thallium	A	5.000	-21	100.0	2	1000	3	10000	0		
Tin	A	40.00	-10	100.0	-5	1000	1	10000	0		
Titanium	A	10.00	0	100.0	3	1000	3	10000	0		
Vanadium	A	5.000	-3	100.0	1	1000	0	10000	0		
Zinc	A	20.00	59	100.0	7	1000	3	10000	0		
Aluminum	R	100.0	1			1000	10	10000	-3	100000	0
Calcium	R	200.0	8			1000	18	10000	-4	100000	0
Iron	R	100.0	5			1000	12	10000	-4	100000	0
Magnesium	R	200.0	3			1000	10	10000	-6	100000	0
Potassium	R	500.0	-20			1000	8	10000	-6	100000	0
Sodium	R	500.0	2			1000	14	10000	-2	100000	0

0021

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/12/2007 10:19:39 AM
Data Type: Reprocessed on 11/12/2007 11:49:43 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	2361.3	100.58	4.26%	[0.00]	ug/L
Al 308.215 R	-178.6	5.59	3.13%	[0.00]	ug/L
As 188.979	30.2	10.43	34.57%	[0.00]	ug/L
B 249.677	5074.4	170.46	3.36%	[0.00]	ug/L
Ba 233.527	-74.3	1.83	2.46%	[0.00]	ug/L
Be 313.107	1047.2	62.46	5.96%	[0.00]	ug/L
Ca 315.887 R	-213.4	10.69	5.01%	[0.00]	ug/L
Cd 214.440	-14.9	5.02	33.65%	[0.00]	ug/L
Co 228.616	-255.0	12.44	4.88%	[0.00]	ug/L
Cr 267.716	-69.8	2.71	3.88%	[0.00]	ug/L
Cu 324.752	4637.5	219.07	4.72%	[0.00]	ug/L
Fe 238.204 R	144.1	3.75	2.60%	[0.00]	ug/L
K 766.490 R	136.3	151.05	110.80%	[0.00]	ug/L
Mg 279.077 R	13.7	4.83	35.19%	[0.00]	ug/L
Mn 257.610	1670.3	33.40	2.00%	[0.00]	ug/L
Mo 202.031	33.9	6.21	18.31%	[0.00]	ug/L
Na 589.592 R	-2232.0	36.21	1.62%	[0.00]	ug/L
Ni 231.604	-224.8	2.08	0.92%	[0.00]	ug/L
Pb 220.353	142.0	5.16	3.64%	[0.00]	ug/L
Sb 206.836	25.2	19.59	77.79%	[0.00]	ug/L
Se 196.026	-2.0	20.89	>999.9%	[0.00]	ug/L
Ti 334.940 R	165.8	107.22	64.66%	[0.00]	ug/L
Tl 190.801	-7.4	10.41	140.52%	[0.00]	ug/L
V 292.402	-113.4	38.19	33.66%	[0.00]	ug/L
Zn 206.200	129.4	7.02	5.43%	[0.00]	ug/L
Sn 189.927	31.4	1.86	5.93%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/12/2007 10:23:28 AM
Data Type: Reprocessed on 11/12/2007 11:49:44 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3334698.0	21394.52	0.64%	100.00	%
Y	240408.0	6457.85	2.69%	100.0	%
Ag 328.068†	2331.9	382.08	16.38%	[5.0]	ug/L
Al 308.215 R†	175.5	5.21	2.97%	[100]	ug/L
As 188.979†	65.6	10.14	15.47%	[5.0]	ug/L
B 249.677†	14445.9	277.42	1.92%	[100]	ug/L
Ba 233.527†	2050.9	23.36	1.14%	[5.0]	ug/L
Be 313.107†	6103.8	77.92	1.28%	[2.0]	ug/L
Ca 315.887 R†	3467.8	86.80	2.50%	[200]	ug/L
Cd 214.440†	860.0	11.79	1.37%	[5.0]	ug/L
Co 228.616†	508.7	7.19	1.41%	[5.0]	ug/L
Cr 267.716†	324.0	5.65	1.74%	[5.0]	ug/L
Cu 324.752†	1807.2	46.83	2.59%	[5.0]	ug/L
Fe 238.204 R†	1366.1	48.17	3.53%	[100]	ug/L
K 766.490 R†	1770.7	99.48	5.62%	[500]	ug/L
Mg 279.077 R†	401.1	15.65	3.90%	[200]	ug/L
Mn 257.610†	6396.8	96.75	1.51%	[5.0]	ug/L
Mo 202.031†	138.8	7.63	5.50%	[5.0]	ug/L
Na 589.592 R†	6083.5	179.17	2.95%	[500]	ug/L
Ni 231.604†	174.8	5.47	3.13%	[5.0]	ug/L
Pb 220.353†	75.7	46.59	61.57%	[3.0]	ug/L
Sb 206.836†	144.1	48.44	33.62%	[5.0]	ug/L
Se 196.026†	116.7	23.35	20.01%	[5.0]	ug/L
Ti 334.940 R†	12548.1	215.69	1.72%	[10]	ug/L
Tl 190.801†	45.3	2.15	4.75%	[5.0]	ug/L
V 292.402†	558.4	15.91	2.85%	[5.0]	ug/L
Zn 206.200†	1835.0	14.46	0.79%	[20]	ug/L
Sn 189.927†	625.7	12.32	1.97%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/12/2007 10:27:21 AM
Data Type: Reprocessed on 11/12/2007 11:49:45 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3309904.4	26062.82	0.79%	99.26	%
Y	216626.5	9158.14	4.23%	90.11	%
Ag 328.068†	48364.8	819.55	1.69%	[100]	ug/L
As 188.979†	1552.3	7.53	0.49%	[100]	ug/L
Ba 233.527†	41434.8	794.36	1.92%	[100]	ug/L
Be 313.107†	309193.9	4318.08	1.40%	[100]	ug/L
Cd 214.440†	17781.8	348.34	1.96%	[100]	ug/L
Co 228.616†	10606.4	224.79	2.12%	[100]	ug/L
Cr 267.716†	6676.8	101.12	1.51%	[100]	ug/L
Cu 324.752†	42130.1	650.54	1.54%	[100]	ug/L
Mn 257.610†	133432.9	2450.94	1.84%	[100]	ug/L
Mo 202.031†	3040.6	16.64	0.55%	[100]	ug/L
Ni 231.604†	3557.9	34.07	0.96%	[100]	ug/L
Pb 220.353†	3774.2	26.06	0.69%	[100]	ug/L
Sb 206.836†	2534.8	12.66	0.50%	[100]	ug/L
Se 196.026†	2206.6	15.75	0.71%	[100]	ug/L
Ti 334.940 R†	130395.5	2060.26	1.58%	[100]	ug/L
Tl 190.801†	1176.5	8.00	0.68%	[100]	ug/L
V 292.402†	11635.3	219.71	1.89%	[100]	ug/L
Zn 206.200†	6190.5	85.05	1.37%	[100]	ug/L
Sn 189.927†	1637.8	13.83	0.84%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/12/2007 10:30:15 AM
Data Type: Reprocessed on 11/12/2007 11:49:46 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3348723.6	40328.29	1.20%	100.4	%
Y	225449.4	5309.24	2.35%	93.78	%
Ag 328.068†	486119.8	7172.34	1.48%	[1000]	ug/L
Al 308.215 R†	1909.1	29.17	1.53%	[1000]	ug/L
As 188.979†	15260.9	189.61	1.24%	[1000]	ug/L
B 249.677†	156626.0	1529.01	0.98%	[1000]	ug/L
Ba 233.527†	406562.9	278.88	0.07%	[1000]	ug/L
Be 313.107†	3064791.0	31517.74	1.03%	[1000]	ug/L
Ca 315.887 R†	18919.9	502.78	2.66%	[1000]	ug/L
Cd 214.440†	179635.6	2174.58	1.21%	[1000]	ug/L
Co 228.616†	109757.6	1556.94	1.42%	[1000]	ug/L
Cr 267.716†	66475.6	956.86	1.44%	[1000]	ug/L
Cu 324.752†	438786.7	1624.78	0.37%	[1000]	ug/L
Fe 238.204 R†	14557.5	345.70	2.37%	[1000]	ug/L
K 766.490 R†	4770.3	146.48	3.07%	[1000]	ug/L
Mg 279.077 R†	2159.7	36.54	1.69%	[1000]	ug/L
Mn 257.610†	1303172.6	2553.99	0.20%	[1000]	ug/L
Mo 202.031†	30093.8	308.88	1.03%	[1000]	ug/L
Na 589.592 R†	13673.7	76.36	0.56%	[1000]	ug/L
Ni 231.604†	36993.2	494.00	1.34%	[1000]	ug/L
Pb 220.353†	37455.3	553.23	1.48%	[1000]	ug/L
Sb 206.836†	24860.8	376.34	1.51%	[1000]	ug/L
Se 196.026†	21403.4	216.18	1.01%	[1000]	ug/L
Ti 334.940 R†	1292720.1	3305.73	0.26%	[1000]	ug/L
Tl 190.801†	11868.4	100.95	0.85%	[1000]	ug/L
V 292.402†	115861.3	1824.14	1.57%	[1000]	ug/L
Zn 206.200†	59344.6	842.63	1.42%	[1000]	ug/L
Sn 189.927†	17515.7	232.27	1.33%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/12/2007 10:33:16 AM
Data Type: Reprocessed on 11/12/2007 11:49:47 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3256533.3	25594.78	0.79%	97.66	%
Y	256817.3	2800.56	1.09%	106.8	%
Ag 328.068†	971079.3	4072.65	0.42%	[2000]	ug/L
Al 308.215 R†	16862.3	204.36	1.21%	[10000]	ug/L
As 188.979†	143213.3	3401.30	2.37%	[10000]	ug/L
B 249.677†	1598820.5	12954.79	0.81%	[10000]	ug/L
Ba 233.527†	3989410.3	47710.16	1.20%	[10000]	ug/L
Ca 315.887 R†	154307.4	1834.08	1.19%	[10000]	ug/L
Cd 214.440†	1706262.7	12875.03	0.75%	[10000]	ug/L
Co 228.616†	1063764.6	7617.63	0.72%	[10000]	ug/L
Cr 267.716†	647093.5	4187.52	0.65%	[10000]	ug/L
Cu 324.752†	4411249.0	44799.56	1.02%	[10000]	ug/L
Fe 238.204 R†	124564.3	1603.22	1.29%	[10000]	ug/L
K 766.490 R†	41458.7	437.99	1.06%	[10000]	ug/L
Mg 279.077 R†	18329.1	251.69	1.37%	[10000]	ug/L
Mn 257.610†	12524078.6	146420.07	1.17%	[10000]	ug/L
Mo 202.031†	293084.4	3002.16	1.02%	[10000]	ug/L
Na 589.592 R†	116521.8	1441.88	1.24%	[10000]	ug/L
Ni 231.604†	358100.0	2047.34	0.57%	[10000]	ug/L
Pb 220.353†	372148.0	1673.21	0.45%	[10000]	ug/L
Sb 206.836†	250997.6	2000.95	0.80%	[10000]	ug/L
Se 196.026†	216774.2	4973.53	2.29%	[10000]	ug/L
Ti 334.940 R†	12595606.7	144731.18	1.15%	[10000]	ug/L
Tl 190.801†	115206.0	2521.06	2.19%	[10000]	ug/L
V 292.402†	1154329.4	6722.95	0.58%	[10000]	ug/L
Zn 206.200†	577914.5	3920.43	0.68%	[10000]	ug/L
Sn 189.927†	172886.9	1190.95	0.69%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/12/2007 10:36:24 AM
Data Type: Reprocessed on 11/12/2007 11:49:48 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3117649.5	31938.32	1.02%	93.49	%
Y	235700.3	5371.83	2.28%	98.04	%
Al 308.215 R†	173802.5	2191.27	1.26%	[100000]	ug/L
Ca 315.887 R†	1601687.0	22121.63	1.38%	[100000]	ug/L
Fe 238.204 R†	1297737.5	20054.77	1.55%	[100000]	ug/L
K 766.490 R†	443569.3	6431.90	1.45%	[100000]	ug/L
Mg 279.077 R†	195630.0	3087.22	1.58%	[100000]	ug/L
Na 589.592 R†	1195334.7	18146.40	1.52%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	485.7	0.00000	1.000000	
Al 308.215 R	4	Lin Thru 0	0.0	1.738	0.00000	0.999995	
As 188.979	4	Lin Thru 0	0.0	14.33	0.00000	0.999979	
B 249.677	3	Lin Thru 0	0.0	159.8	0.00000	0.999998	
Ba 233.527	4	Lin Thru 0	0.0	399.0	0.00000	0.999998	
Be 313.107	3	Lin Thru 0	0.0	3065	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	16.01	0.00000	0.999992	
Cd 214.440	4	Lin Thru 0	0.0	170.7	0.00000	0.999986	
Co 228.616	4	Lin Thru 0	0.0	106.4	0.00000	0.999995	
Cr 267.716	4	Lin Thru 0	0.0	64.73	0.00000	0.999996	
Cu 324.752	4	Lin Thru 0	0.0	441.1	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	12.97	0.00000	0.999991	
K 766.490 R	4	Lin Thru 0	0.0	4.433	0.00000	0.999978	
Mg 279.077 R	4	Lin Thru 0	0.0	1.955	0.00000	0.999980	
Mn 257.610	4	Lin Thru 0	0.0	1253	0.00000	0.999992	
Mo 202.031	4	Lin Thru 0	0.0	29.32	0.00000	0.999996	
Na 589.592 R	4	Lin Thru 0	0.0	11.95	0.00000	0.999996	
Ni 231.604	4	Lin Thru 0	0.0	35.82	0.00000	0.999995	
Pb 220.353	4	Lin Thru 0	0.0	37.22	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	25.10	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	21.67	0.00000	0.999999	
Ti 334.940 R	4	Lin Thru 0	0.0	1260	0.00000	0.999997	
Tl 190.801	4	Lin Thru 0	0.0	11.52	0.00000	0.999996	
V 292.402	4	Lin Thru 0	0.0	115.4	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	57.81	0.00000	0.999996	
Sn 189.927	4	Lin Thru 0	0.0	17.29	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659007
Cal : 87455659001
Standards: S7553

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 10:43

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	26.030	24.351	5000	4851	ug/L	-3	10	
Arsenic	A	14.554	15.247	5000	5320	ug/L	6	10	
Barium	A	407.51	400.78	5000	5022	ug/L	0	10	
Beryllium	A	3069.5	3056.8	500.0	498.7	ug/L	0	10	
Boron	A	153.66	160.59	5000	5023	ug/L	0	10	
Cadmium	A	175.02	170.59	5000	4996	ug/L	0	10	
Chromium	A	65.686	62.563	5000	4833	ug/L	-3	10	
Cobalt	A	105.98	102.30	5000	4797	ug/L	-4	10	
Copper	A	415.66	429.87	5000	4873	ug/L	-3	10	
Lead	A	34.409	35.508	5000	4770	ug/L	-5	10	
Manganese	A	1292.3	1238.4	5000	4942	ug/L	-1	10	
Molybdenum	A	29.394	28.872	5000	4924	ug/L	-2	10	
Nickel	A	35.836	34.736	5000	4848	ug/L	-3	10	
Selenium	A	22.121	21.077	5000	4862	ug/L	-3	10	
Silver	A	480.42	459.14	1000	945.4	ug/L	-5	10	
Thallium	A	11.054	11.175	5000	4848	ug/L	-3	10	
Tin	A	16.706	16.048	5000	4641	ug/L	-7	10	
Titanium	A	1277.8	1231.4	5000	4887	ug/L	-2	10	
Vanadium	A	114.83	112.70	5000	4881	ug/L	-2	10	
Zinc	A	67.698	56.555	5000	4892	ug/L	-2	10	
Aluminum	R	1.7722	1.7275	20000	19890	ug/L	-1	10	
Calcium	R	16.927	16.309	20000	20370	ug/L	2	10	
Iron	R	13.413	13.359	20000	20600	ug/L	3	10	
Magnesium	R	1.9886	2.0085	20000	20550	ug/L	3	10	
Potassium	R	4.2233	4.3671	20000	19700	ug/L	-1	10	
Sodium	R	12.362	12.070	20000	20200	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3279702	-1.65

87455659007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87455659008
Cal : 87455659001
File : 111207ar
Caldate : 12-NOV-2007
IDF : 1.0
Time : 12-NOV-2007 11:02

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3349865	0.45

87455659008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08
Seqnum : 87455659009
Cal : 87455659001
Standards: S7557

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 11:05

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[-1.469]	5.000	ug/L	
Arsenic	A	[2.180]	5.000	ug/L	
Barium	A	[3.887]	5.000	ug/L	
Beryllium	A	[-1.170]	2.000	ug/L	
Boron	A	[-23.75]	100.0	ug/L	
Cadmium	A	[-3.505]	5.000	ug/L	
Cobalt	A	[-0.5407]	5.000	ug/L	
Lead	A	[1.442]	3.000	ug/L	
Molybdenum	A	[-2.795]	5.000	ug/L	
Selenium	A	[1.717]	5.000	ug/L	
Silver	A	[-2.147]	5.000	ug/L	
Thallium	A	[3.443]	5.000	ug/L	
Tin	A	[-10.80]	40.00	ug/L	
Zinc	A	[1.660]	20.00	ug/L	
Potassium	R	[177.6]	500.0	ug/L	
Sodium	R	516.7	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18600	ug/L	93
Copper	A	20000	19990	ug/L	100
Manganese	A	20000	17810	ug/L	89
Nickel	A	20000	16880	ug/L	84
Titanium	A	20000	19260	ug/L	96
Vanadium	A	20000	19370	ug/L	97
Aluminum	R	500000	496800	ug/L	99
Calcium	R	500000	472800	ug/L	95
Iron	R	200000	183200	ug/L	92
Magnesium	R	500000	485200	ug/L	97

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	2822071	-15.37

87455659009

: 00281

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87455659010
Cal : 87455659001
Standards: S7324

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 11:13

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	525.1	ug/L	5	20	
Arsenic	A	500.0	570.5	ug/L	14	20	
Barium	A	500.0	526.0	ug/L	5	20	
Beryllium	A	500.0	533.9	ug/L	7	20	
Cadmium	A	1000	982.0	ug/L	-2	20	
Chromium	A	500.0	494.4	ug/L	-1	20	
Cobalt	A	500.0	445.8	ug/L	-11	20	
Copper	A	500.0	526.1	ug/L	5	20	
Lead	A	1000	921.6	ug/L	-8	20	
Manganese	A	500.0	463.4	ug/L	-7	20	
Molybdenum	A	500.0	504.1	ug/L	1	20	
Nickel	A	1000	898.2	ug/L	-10	20	
Selenium	A	500.0	507.7	ug/L	2	20	
Silver	A	1000	1082	ug/L	8	20	
Thallium	A	500.0	470.9	ug/L	-6	20	
Titanium	A	20000	20150	ug/L	1		
Vanadium	A	500.0	530.4	ug/L	6	20	
Zinc	A	1000	989.4	ug/L	-1	20	
Aluminum	R	500000	525600	ug/L	5		
Calcium	R	500000	498900	ug/L	0		
Iron	R	200000	193400	ug/L	-3		
Magnesium	R	500000	514400	ug/L	3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	2786518	-16.44

87455659010

: 00282

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659021
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 12:49

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	24.625	5000	4906	ug/L	-2	10	
Arsenic	A	14.554	15.428	5000	5383	ug/L	8	10	
Barium	A	407.51	406.27	5000	5091	ug/L	2	10	
Beryllium	A	306..5	3092.6	500.0	504.5	ug/L	1	10	
Boron	A	153.66	160.71	5000	5027	ug/L	1	10	
Cadmium	A	175.02	173.46	5000	5080	ug/L	2	10	
Chromium	A	65.686	63.395	5000	4897	ug/L	-2	10	
Cobalt	A	105.98	104.02	5000	4878	ug/L	-2	10	
Copper	A	415.66	439.08	5000	4977	ug/L	0	10	
Lead	A	34.409	36.184	5000	4861	ug/L	-3	10	
Manganese	A	1292.3	1256.7	5000	5015	ug/L	0	10	
Molybdenum	A	29.394	29.402	5000	5015	ug/L	0	10	
Nickel	A	35.836	35.313	5000	4929	ug/L	-1	10	
Selenium	A	22.121	21.415	5000	4940	ug/L	-1	10	
Silver	A	480.42	462.98	1000	953.3	ug/L	-5	10	
Thallium	A	11.054	11.342	5000	4921	ug/L	-2	10	
Tin	A	16.706	16.355	5000	4729	ug/L	-5	10	
Titanium	A	1277.8	1249.2	5000	4958	ug/L	-1	10	
Vanadium	A	114.83	114.11	5000	4943	ug/L	-1	10	
Zinc	A	67.698	57.409	5000	4966	ug/L	-1	10	
Aluminum	R	1.7722	1.7271	20000	19880	ug/L	-1	10	
Calcium	R	16.927	16.378	20000	20460	ug/L	2	10	
Iron	R	13.413	13.454	20000	20740	ug/L	4	10	
Magnesium	R	1.9886	2.0190	20000	20650	ug/L	3	10	
Potassium	R	4.2233	4.3757	20000	19740	ug/L	-1	10	
Sodium	R	12.362	12.007	20000	20090	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3261764	-2.19

87455659021

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87455659023
Cal : 87455659001
File : 111207ar
Caldate : 12-NOV-2007
IDF : 1.0
Time : 12-NOV-2007 12:56

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	[2.095]	5.000	1.986	ug/L	!ib
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3352367	0.53

!=warning ib=instrument blank

87455659023

: 00284

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659035
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 13:37

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	24.722	5000	4925	ug/L	-1	10	
Arsenic	A	14.554	15.523	5000	5416	ug/L	8	10	
Barium	A	407.51	406.55	5000	5094	ug/L	2	10	
Beryllium	A	3069.5	3092.7	500.0	504.5	ug/L	1	10	
Boron	A	153.66	157.48	5000	4926	ug/L	-1	10	
Cadmium	A	175.02	173.91	5000	5093	ug/L	2	10	
Chromium	A	65.686	63.036	5000	4869	ug/L	-3	10	
Cobalt	A	105.98	103.61	5000	4858	ug/L	-3	10	
Copper	A	415.66	437.51	5000	4959	ug/L	-1	10	
Lead	A	34.409	36.821	5000	4947	ug/L	-1	10	
Manganese	A	1292.3	1259.2	5000	5025	ug/L	1	10	
Molybdenum	A	29.394	29.343	5000	5005	ug/L	0	10	
Nickel	A	35.836	35.246	5000	4920	ug/L	-2	10	
Selenium	A	22.121	21.590	5000	4981	ug/L	0	10	
Silver	A	480.42	462.83	1000	953.0	ug/L	-5	10	
Thallium	A	11.054	11.439	5000	4963	ug/L	-1	10	
Tin	A	16.706	16.381	5000	4737	ug/L	-5	10	
Titanium	A	1277.8	1250.6	5000	4963	ug/L	-1	10	
Vanadium	A	114.83	114.48	5000	4958	ug/L	-1	10	
Zinc	A	67.698	57.549	5000	4978	ug/L	0	10	
Aluminum	R	1.7722	1.6829	20000	19370	ug/L	-3	10	
Calcium	R	16.927	15.984	20000	19970	ug/L	0	10	
Iron	R	13.413	13.121	20000	20230	ug/L	1	10	
Magnesium	R	1.9886	1.9748	20000	20200	ug/L	1	10	
Potassium	R	4.2233	4.3165	20000	19480	ug/L	-3	10	
Sodium	R	12.362	11.999	20000	20080	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3200001	-4.04

87455659035

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87455659037 File : 111207ar Time : 12-NOV-2007 13:45
Cal : 87455659001 Caldate : 12-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.220]	5.000	0.9637	ug/L	!ib
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3284858	-1.49

!=warning ib=instrument blank

87455659037

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87455659041
Cal : 87455659001
Standards: S7324

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 13:57

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	536.4	ug/L	7	20	
Arsenic	A	500.0	587.1	ug/L	17	20	
Barium	A	500.0	534.5	ug/L	7	20	
Beryllium	A	500.0	539.6	ug/L	8	20	
Cadmium	A	1000	999.1	ug/L	0	20	
Chromium	A	500.0	502.9	ug/L	1	20	
Cobalt	A	500.0	453.3	ug/L	-9	20	
Copper	A	500.0	524.1	ug/L	5	20	
Lead	A	1000	938.5	ug/L	-6	20	
Manganese	A	500.0	469.3	ug/L	-6	20	
Molybdenum	A	500.0	518.1	ug/L	4	20	
Nickel	A	1000	920.4	ug/L	-8	20	
Selenium	A	500.0	533.4	ug/L	7	20	
Silver	A	1000	1108	ug/L	11	20	
Thallium	A	500.0	474.2	ug/L	-5	20	
Titanium	A	20000	20430	ug/L	2		
Vanadium	A	500.0	540.0	ug/L	8	20	
Zinc	A	1000	1015	ug/L	2	20	
Aluminum	R	500000	571100	ug/L	14		
Calcium	R	500000	541500	ug/L	8		
Iron	R	200000	210700	ug/L	5		
Magnesium	R	500000	556900	ug/L	11		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	2765854	-17.06

87455659041

: 00287

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659043
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 14:04

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	24.726	5000	4926	ug/L	-1	10	
Arsenic	A	14.554	15.429	5000	5383	ug/L	8	10	
Barium	A	407.51	403.62	5000	5058	ug/L	1	10	
Beryllium	A	3069.5	3064.7	500.0	499.9	ug/L	0	10	
Boron	A	153.66	156.43	5000	4893	ug/L	-2	10	
Cadmium	A	175.02	173.57	5000	5084	ug/L	2	10	
Chromium	A	65.686	62.957	5000	4863	ug/L	-3	10	
Cobalt	A	105.98	103.24	5000	4841	ug/L	-3	10	
Copper	A	415.66	431.60	5000	4892	ug/L	-2	10	
Lead	A	34.409	36.492	5000	4903	ug/L	-2	10	
Manganese	A	1292.3	1250.4	5000	4990	ug/L	0	10	
Molybdenum	A	29.394	28.875	5000	4925	ug/L	-2	10	
Nickel	A	35.836	35.063	5000	4894	ug/L	-2	10	
Selenium	A	22.121	21.307	5000	4915	ug/L	-2	10	
Silver	A	480.42	456.21	1000	939.4	ug/L	-6	10	
Thallium	A	11.054	11.345	5000	4922	ug/L	-2	10	
Tin	A	16.706	16.249	5000	4699	ug/L	-6	10	
Titanium	A	1277.8	1239.9	5000	4921	ug/L	-2	10	
Vanadium	A	114.83	113.47	5000	4915	ug/L	-2	10	
Zinc	A	67.698	57.278	5000	4954	ug/L	-1	10	
Aluminum	R	1.7722	1.7019	20000	19590	ug/L	-2	10	
Calcium	R	16.927	16.090	20000	20100	ug/L	0	10	
Iron	R	13.413	13.181	20000	20320	ug/L	2	10	
Magnesium	R	1.9886	1.9790	20000	20240	ug/L	1	10	
Potassium	R	4.2233	4.3560	20000	19650	ug/L	-2	10	
Sodium	R	12.362	11.966	20000	20030	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3192110	-4.28

87455659043

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87455659045 File : 111207ar Time : 12-NOV-2007 14:10
Cal : 87455659001 Caldate : 12-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[14.31]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3303004	-0.95

!=warning ib=instrument blank

87455659045

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87455659053
Cal : 87455659001
Standards: S7324

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 15:10

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	546.2	ug/L	9	20	
Arsenic	A	500.0	596.1	ug/L	19	20	
Barium	A	500.0	543.3	ug/L	9	20	
Beryllium	A	500.0	549.4	ug/L	10	20	
Cadmium	A	1000	1010	ug/L	1	20	
Chromium	A	500.0	511.5	ug/L	2	20	
Cobalt	A	500.0	462.8	ug/L	-7	20	
Copper	A	500.0	526.5	ug/L	5	20	
Lead	A	1000	970.3	ug/L	-3	20	
Manganese	A	500.0	475.1	ug/L	-5	20	
Molybdenum	A	500.0	527.8	ug/L	6	20	
Nickel	A	1000	939.7	ug/L	-6	20	
Selenium	A	500.0	527.3	ug/L	5	20	
Silver	A	1000	1131	ug/L	13	20	
Thallium	A	500.0	489.9	ug/L	-2	20	
Titanium	A	20000	20720	ug/L	4		
Vanadium	A	500.0	545.8	ug/L	9	20	
Zinc	A	1000	1030	ug/L	3	20	
Aluminum	R	500000	564900	ug/L	13		
Calcium	R	500000	527000	ug/L	5		
Iron	R	200000	205800	ug/L	3		
Magnesium	R	500000	540900	ug/L	8		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	2731938	-18.08

87455659053

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659060
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 15:29

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	25.619	5000	5104	ug/L	2	10	
Arsenic	A	14.554	16.080	5000	5610	ug/L	**12**	10	c+ ***
Barium	A	407.51	417.78	5000	5235	ug/L	5	10	
Beryllium	A	3069.5	3155.0	500.0	514.7	ug/L	3	10	
Boron	A	153.66	163.22	5000	5106	ug/L	2	10	
Cadmium	A	175.02	181.05	5000	5303	ug/L	6	10	
Chromium	A	65.686	65.008	5000	5022	ug/L	0	10	
Cobalt	A	105.98	106.97	5000	5016	ug/L	0	10	
Copper	A	415.66	445.59	5000	5051	ug/L	1	10	
Lead	A	34.409	37.890	5000	5090	ug/L	2	10	
Manganese	A	1292.3	1292.5	5000	5158	ug/L	3	10	
Molybdenum	A	29.394	29.983	5000	5114	ug/L	2	10	
Nickel	A	35.836	36.422	5000	5084	ug/L	2	10	
Selenium	A	22.121	22.285	5000	5141	ug/L	3	10	
Silver	A	480.42	471.55	1000	971.0	ug/L	-3	10	
Thallium	A	11.054	11.706	5000	5079	ug/L	2	10	
Tin	A	16.706	16.939	5000	4898	ug/L	-2	10	
Titanium	A	1277.8	1280.3	5000	5081	ug/L	2	10	
Vanadium	A	114.83	117.28	5000	5080	ug/L	2	10	
Zinc	A	67.698	59.698	5000	5164	ug/L	3	10	
Aluminum	R	1.7722	1.7965	20000	20680	ug/L	3	10	
Calcium	R	16.927	17.066	20000	21320	ug/L	7	10	
Iron	R	13.413	13.984	20000	21560	ug/L	8	10	
Magnesium	R	1.9886	2.0995	20000	21480	ug/L	7	10	
Potassium	R	4.2233	4.6084	20000	20790	ug/L	4	10	
Sodium	R	12.362	12.352	20000	20670	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3156429	-5.35

+=high bias c=CCV

87455659060

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87455659063
Cal : 87455659001
File : 111207ar
Caldate : 12-NOV-2007
IDF : 1.0
Time : 12-NOV-2007 15:39

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[16.80]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[28.40]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3246116	-2.66

!=warning ib=instrument blank

87455659063

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659076
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 16:14

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	25.066	5000	4994	ug/L	0	10	
Arsenic	A	14.554	15.622	5000	5451	ug/L	9	10	
Barium	A	407.51	410.25	5000	5141	ug/L	3	10	
Beryllium	A	3069.5	3101.7	500.0	506.0	ug/L	1	10	
Boron	A	153.66	161.87	5000	5063	ug/L	1	10	
Cadmium	A	175.02	177.75	5000	5206	ug/L	4	10	
Chromium	A	65.686	64.016	5000	4945	ug/L	-1	10	
Cobalt	A	105.98	105.07	5000	4927	ug/L	-1	10	
Copper	A	415.66	438.90	5000	4975	ug/L	0	10	
Lead	A	34.409	37.200	5000	4998	ug/L	0	10	
Manganese	A	1292.3	1269.8	5000	5067	ug/L	1	10	
Molybdenum	A	29.394	29.767	5000	5077	ug/L	2	10	
Nickel	A	35.836	35.784	5000	4995	ug/L	0	10	
Selenium	A	22.121	21.737	5000	5014	ug/L	0	10	
Silver	A	480.42	465.99	1000	959.5	ug/L	-4	10	
Thallium	A	11.054	11.541	5000	5007	ug/L	0	10	
Tin	A	16.706	16.536	5000	4782	ug/L	-4	10	
Titanium	A	1277.8	1259.7	5000	4999	ug/L	0	10	
Vanadium	A	114.83	115.49	5000	5002	ug/L	0	10	
Zinc	A	67.698	58.818	5000	5087	ug/L	2	10	
Aluminum	R	1.7722	1.7784	20000	20470	ug/L	2	10	
Calcium	R	16.927	16.811	20000	21000	ug/L	5	10	
Iron	R	13.413	13.851	20000	21350	ug/L	7	10	
Magnesium	R	1.9886	2.0624	20000	21100	ug/L	5	10	
Potassium	R	4.2233	4.5176	20000	20380	ug/L	2	10	
Sodium	R	12.362	12.266	20000	20530	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3241893	-2.78

87455659076

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87455659078 File : 111207ar Time : 12-NOV-2007 16:21
Cal : 87455659001 Caldate : 12-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	[2.247]	5.000	1.577	ug/L	!ib
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[28.00]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3313547	-0.63

!=warning ib=instrument blank

87455659078

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87455659089
Cal : 87455659001
Standards: S7324

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 16:50

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	554.5	ug/L	11	20	
Arsenic	A	500.0	589.5	ug/L	18	20	
Barium	A	500.0	542.0	ug/L	8	20	
Beryllium	A	500.0	544.2	ug/L	9	20	
Cadmium	A	1000	1013	ug/L	1	20	
Chromium	A	500.0	510.8	ug/L	2	20	
Cobalt	A	500.0	456.7	ug/L	-9	20	
Copper	A	500.0	516.0	ug/L	3	20	
Lead	A	1000	963.4	ug/L	-4	20	
Manganese	A	500.0	475.2	ug/L	-5	20	
Molybdenum	A	500.0	518.0	ug/L	4	20	
Nickel	A	1000	932.0	ug/L	-7	20	
Selenium	A	500.0	521.9	ug/L	4	20	
Silver	A	1000	1116	ug/L	12	20	
Thallium	A	500.0	477.6	ug/L	-4	20	
Titanium	A	20000	20640	ug/L	3		
Vanadium	A	500.0	546.3	ug/L	9	20	
Zinc	A	1000	1028	ug/L	3	20	
Aluminum	R	500000	547400	ug/L	9		
Calcium	R	500000	514200	ug/L	3		
Iron	R	200000	200400	ug/L	0		
Magnesium	R	500000	524800	ug/L	5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	2688773	-19.37

87455659089

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659091
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 16:57

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	25.227	5000	5026	ug/L	1	10	
Arsenic	A	14.554	15.741	5000	5492	ug/L	10	10	
Barium	A	407.51	409.83	5000	5135	ug/L	3	10	
Beryllium	A	3089.5	3084.2	500.0	503.1	ug/L	1	10	
Boron	A	153.66	158.68	5000	4964	ug/L	-1	10	
Cadmium	A	175.02	178.19	5000	5219	ug/L	4	10	
Chromium	A	65.686	63.977	5000	4942	ug/L	-1	10	
Cobalt	A	105.98	104.76	5000	4912	ug/L	-2	10	
Copper	A	415.66	435.67	5000	4939	ug/L	-1	10	
Lead	A	34.409	37.560	5000	5046	ug/L	1	10	
Manganese	A	1292.3	1268.7	5000	5063	ug/L	1	10	
Molybdenum	A	29.394	29.345	5000	5005	ug/L	0	10	
Nickel	A	35.836	35.820	5000	5000	ug/L	0	10	
Selenium	A	22.121	21.845	5000	5039	ug/L	1	10	
Silver	A	480.42	464.27	1000	956.0	ug/L	-4	10	
Thallium	A	11.054	11.570	5000	5020	ug/L	0	10	
Tin	A	16.706	16.646	5000	4813	ug/L	-4	10	
Titanium	A	1277.8	1256.9	5000	4988	ug/L	0	10	
Vanadium	A	114.83	115.41	5000	4999	ug/L	0	10	
Zinc	A	67.698	58.454	5000	5056	ug/L	1	10	
Aluminum	R	1.7722	1.6942	20000	19500	ug/L	-2	10	
Calcium	R	16.927	15.917	20000	19880	ug/L	-1	10	
Iron	R	13.413	13.061	20000	20140	ug/L	1	10	
Magnesium	R	1.9886	1.9495	20000	19940	ug/L	0	10	
Potassium	R	4.2233	4.3255	20000	19520	ug/L	-2	10	
Sodium	R	12.362	12.183	20000	20390	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3177695	-4.71

87455659091

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87455659093
Cal : 87455659001

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 17:04

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[35.68]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3214919	-3.59

!=warning ib=instrument blank

87455659093

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659103
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 17:33

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	25.037	5000	4988	ug/L	0	10	
Arsenic	A	14.554	15.590	5000	5439	ug/L	9	10	
Barium	A	407.51	405.43	5000	5080	ug/L	2	10	
Beryllium	A	3069.5	3039.0	500.0	495.7	ug/L	-1	10	
Boron	A	153.66	156.67	5000	4900	ug/L	-2	10	
Cadmium	A	175.02	177.42	5000	5196	ug/L	4	10	
Chromium	A	65.686	63.249	5000	4886	ug/L	-2	10	
Cobalt	A	105.98	103.80	5000	4867	ug/L	-3	10	
Copper	A	415.66	433.30	5000	4912	ug/L	-2	10	
Lead	A	34.409	37.452	5000	5032	ug/L	1	10	
Manganese	A	1292.3	1257.7	5000	5019	ug/L	0	10	
Molybdenum	A	29.394	28.932	5000	4934	ug/L	-1	10	
Nickel	A	35.836	35.542	5000	4961	ug/L	-1	10	
Selenium	A	22.121	21.489	5000	4957	ug/L	-1	10	
Silver	A	480.42	457.21	1000	941.4	ug/L	-6	10	
Thallium	A	11.054	11.425	5000	4957	ug/L	-1	10	
Tin	A	16.706	16.415	5000	4747	ug/L	-5	10	
Titanium	A	1277.8	1247.4	5000	4950	ug/L	-1	10	
Vanadium	A	114.83	114.53	5000	4961	ug/L	-1	10	
Zinc	A	67.698	57.904	5000	5008	ug/L	0	10	
Aluminum	R	1.7722	1.7214	20000	19810	ug/L	-1	10	
Calcium	R	16.927	16.161	20000	20190	ug/L	1	10	
Iron	R	13.413	13.224	20000	20390	ug/L	2	10	
Magnesium	R	1.9886	1.9687	20000	20140	ug/L	1	10	
Potassium	R	4.2233	4.3740	20000	19730	ug/L	-1	10	
Sodium	R	12.362	11.985	20000	20060	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3196244	-4.15

87455659103

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87455659105
Cal : 87455659001

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 17:40

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1301]	2.000	0.1170	ug/L	!ib
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	[1.584]	5.000	1.577	ug/L	!ib
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[32.22]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3222018	-3.38

!=warning ib=instrument blank

87455659105

: 00299

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87455659113
Cal : 87455659001
Standards: S7324

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 17:59

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	537.0	ug/L	7	20	
Arsenic	A	500.0	591.1	ug/L	18	20	
Barium	A	500.0	541.5	ug/L	8	20	
Beryllium	A	500.0	540.6	ug/L	8	20	
Cadmium	A	1000	1026	ug/L	3	20	
Chromium	A	500.0	502.1	ug/L	0	20	
Cobalt	A	500.0	453.3	ug/L	-9	20	
Copper	A	500.0	524.3	ug/L	5	20	
Lead	A	1000	960.0	ug/L	-4	20	
Manganese	A	500.0	476.4	ug/L	-5	20	
Molybdenum	A	500.0	512.9	ug/L	3	20	
Nickel	A	1000	921.2	ug/L	-8	20	
Selenium	A	500.0	513.7	ug/L	3	20	
Silver	A	1000	1109	ug/L	11	20	
Thallium	A	500.0	470.0	ug/L	-6	20	
Titanium	A	20000	20550	ug/L	3		
Vanadium	A	500.0	546.9	ug/L	9	20	
Zinc	A	1000	1017	ug/L	2	20	
Aluminum	R	500000	572400	ug/L	14		
Calcium	R	500000	535000	ug/L	7		
Iron	R	200000	207900	ug/L	4		
Magnesium	R	500000	542600	ug/L	9		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	2713501	-18.63

87455659113

: 00300

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659115
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 18:05

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	25.056	5000	4992	ug/L	0	10	
Arsenic	A	14.554	15.665	5000	5465	ug/L	9	10	
Barium	A	407.51	416.70	5000	5222	ug/L	4	10	
Beryllium	A	3069.5	3131.8	500.0	510.9	ug/L	2	10	
Boron	A	153.66	159.05	5000	4975	ug/L	0	10	
Cadmium	A	175.02	181.53	5000	5317	ug/L	6	10	
Chromium	A	65.686	64.300	5000	4967	ug/L	-1	10	
Cobalt	A	105.98	105.42	5000	4943	ug/L	-1	10	
Copper	A	415.66	444.33	5000	5037	ug/L	1	10	
Lead	A	34.409	37.827	5000	5082	ug/L	2	10	
Manganese	A	1292.3	1291.7	5000	5155	ug/L	3	10	
Molybdenum	A	29.394	29.656	5000	5058	ug/L	1	10	
Nickel	A	35.836	35.874	5000	5007	ug/L	0	10	
Selenium	A	22.121	21.668	5000	4998	ug/L	0	10	
Silver	A	480.42	469.38	1000	966.5	ug/L	-3	10	
Thallium	A	11.054	11.569	5000	5020	ug/L	0	10	
Tin	A	16.706	16.634	5000	4810	ug/L	-4	10	
Titanium	A	1277.8	1280.7	5000	5082	ug/L	2	10	
Vanadium	A	114.83	117.48	5000	5088	ug/L	2	10	
Zinc	A	67.698	59.008	5000	5104	ug/L	2	10	
Aluminum	R	1.7722	1.8443	20000	21230	ug/L	6	10	
Calcium	R	16.927	17.204	20000	21490	ug/L	7	10	
Iron	R	13.413	14.096	20000	21730	ug/L	9	10	
Magnesium	R	1.9886	2.0998	20000	21480	ug/L	7	10	
Potassium	R	4.2233	4.6541	20000	21000	ug/L	5	10	
Sodium	R	12.362	12.836	20000	21480	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3139537	-5.85

87455659115

00301

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87455659117 File : 111207ar Time : 12-NOV-2007 18:13
Cal : 87455659001 Caldate : 12-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	[4.873]	5.000	1.577	ug/L	!ib
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[39.88]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3239130	-2.87

!=warning ib=instrument blank

87455659117

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87455659128
Cal : 87455659001
Standards: S7324

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 18:49

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	539.2	ug/L	8	20	
Arsenic	A	500.0	592.9	ug/L	19	20	
Barium	A	500.0	536.8	ug/L	7	20	
Beryllium	A	500.0	536.7	ug/L	7	20	
Cadmium	A	1000	1007	ug/L	1	20	
Chromium	A	500.0	511.1	ug/L	2	20	
Cobalt	A	500.0	457.9	ug/L	-8	20	
Copper	A	500.0	507.7	ug/L	2	20	
Lead	A	1000	949.7	ug/L	-5	20	
Manganese	A	500.0	470.6	ug/L	-6	20	
Molybdenum	A	500.0	513.1	ug/L	3	20	
Nickel	A	1000	932.1	ug/L	-7	20	
Selenium	A	500.0	532.2	ug/L	6	20	
Silver	A	1000	1093	ug/L	9	20	
Thallium	A	500.0	469.1	ug/L	-6	20	
Titanium	A	20000	20520	ug/L	3		
Vanadium	A	500.0	539.2	ug/L	8	20	
Zinc	A	1000	1025	ug/L	3	20	
Aluminum	R	500000	520300	ug/L	4		
Calcium	R	500000	490400	ug/L	-2		
Iron	R	200000	190100	ug/L	-5		
Magnesium	R	500000	498400	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	2709665	-18.74

87455659128

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659130
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 18:56

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	24.814	5000	4943	ug/L	-1	10	
Arsenic	A	14.554	15.530	5000	5418	ug/L	8	10	
Barium	A	407.51	406.10	5000	5089	ug/L	2	10	
Beryllium	A	3069.5	3062.6	5000.0	499.6	ug/L	0	10	
Boron	A	153.66	156.12	5000	4883	ug/L	-2	10	
Cadmium	A	175.02	175.54	5000	5141	ug/L	3	10	
Chromium	A	65.686	63.767	5000	4926	ug/L	-1	10	
Cobalt	A	105.98	103.69	5000	4862	ug/L	-3	10	
Copper	A	415.66	432.69	5000	4905	ug/L	-2	10	
Lead	A	34.409	37.091	5000	4983	ug/L	0	10	
Manganese	A	1292.3	1258.3	5000	5021	ug/L	0	10	
Molybdenum	A	29.394	28.942	5000	4936	ug/L	-1	10	
Nickel	A	35.836	35.453	5000	4949	ug/L	-1	10	
Selenium	A	22.121	21.357	5000	4927	ug/L	-1	10	
Silver	A	480.42	465.67	1000	958.9	ug/L	-4	10	
Thallium	A	11.054	11.422	5000	4956	ug/L	-1	10	
Tin	A	16.706	16.338	5000	4725	ug/L	-6	10	
Titanium	A	1277.8	1248.7	5000	4956	ug/L	-1	10	
Vanadium	A	114.83	114.87	5000	4976	ug/L	0	10	
Zinc	A	67.698	57.571	5000	4980	ug/L	0	10	
Aluminum	R	1.7722	1.7798	20000	20490	ug/L	2	10	
Calcium	R	16.927	16.571	20000	20700	ug/L	3	10	
Iron	R	13.413	13.573	20000	20930	ug/L	5	10	
Magnesium	R	1.9886	2.0296	20000	20760	ug/L	4	10	
Potassium	R	4.2233	4.5321	20000	20450	ug/L	2	10	
Sodium	R	12.362	12.499	20000	20920	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3149320	-5.56

87455659130

: 00304

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87455659132
Cal : 87455659001
File : 111207ar
Caldate : 12-NOV-2007
IDF : 1.0
Time : 12-NOV-2007 19:03

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[34.16]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3217408	-3.52

!=warning ib=instrument blank

87455659132

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659142
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 19:37

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	24.697	5000	4920	ug/L	-2	10	
Arsenic	A	14.554	15.552	5000	5426	ug/L	9	10	
Barium	A	407.51	411.97	5000	5162	ug/L	3	10	
Beryllium	A	3069.5	3103.5	500.0	506.3	ug/L	1	10	
Boron	A	153.66	158.09	5000	4945	ug/L	-1	10	
Cadmium	A	175.02	177.68	5000	5204	ug/L	4	10	
Chromium	A	65.686	63.573	5000	4911	ug/L	-2	10	
Cobalt	A	105.98	104.28	5000	4890	ug/L	-2	10	
Copper	A	415.66	438.36	5000	4969	ug/L	-1	10	
Lead	A	34.409	37.254	5000	5005	ug/L	0	10	
Manganese	A	1292.3	1273.8	5000	5083	ug/L	2	10	
Molybdenum	A	29.394	29.333	5000	5003	ug/L	0	10	
Nickel	A	35.836	35.599	5000	4969	ug/L	-1	10	
Selenium	A	22.121	21.569	5000	4976	ug/L	0	10	
Silver	A	480.42	463.54	1000	954.5	ug/L	-5	10	
Thallium	A	11.054	11.451	5000	4968	ug/L	-1	10	
Tin	A	16.706	16.549	5000	4785	ug/L	-4	10	
Titanium	A	1277.8	1263.5	5000	5014	ug/L	0	10	
Vanadium	A	114.83	115.74	5000	5013	ug/L	0	10	
Zinc	A	67.698	58.262	5000	5039	ug/L	1	10	
Aluminum	R	1.7722	1.6742	20000	19270	ug/L	-4	10	
Calcium	R	16.927	15.883	20000	19840	ug/L	-1	10	
Iron	R	13.413	13.032	20000	20090	ug/L	0	10	
Magnesium	R	1.9886	1.9598	20000	20050	ug/L	0	10	
Potassium	R	4.2233	4.3064	20000	19430	ug/L	-3	10	
Sodium	R	12.362	11.962	20000	20020	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3171611	-4.89

87455659142

: 00306

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87455659144 File : 111207ar Time : 12-NOV-2007 19:45
Cal : 87455659001 Caldate : 12-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[17.01]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	[2.856]	5.000	1.577	ug/L	!ib
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[32.55]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3260742	-2.22

!=warning ib=instrument blank

87455659144

: 00307

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659156
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 20:28

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	25.242	5000	5029	ug/L	1	10	
Arsenic	A	14.554	15.745	5000	5494	ug/L	10	10	
Barium	A	407.51	409.10	5000	5126	ug/L	3	10	
Beryllium	A	3069.5	3093.2	500.0	504.6	ug/L	1	10	
Boron	A	153.66	157.65	5000	4931	ug/L	-1	10	
Cadmium	A	175.02	176.31	5000	5164	ug/L	3	10	
Chromium	A	65.686	64.045	5000	4947	ug/L	-1	10	
Cobalt	A	105.98	104.39	5000	4895	ug/L	-2	10	
Copper	A	415.66	435.95	5000	4942	ug/L	-1	10	
Lead	A	34.409	37.629	5000	5055	ug/L	1	10	
Manganese	A	1292.3	1265.6	5000	5051	ug/L	1	10	
Molybdenum	A	29.394	29.119	5000	4966	ug/L	-1	10	
Nickel	A	35.836	35.675	5000	4980	ug/L	0	10	
Selenium	A	22.121	21.765	5000	5021	ug/L	0	10	
Silver	A	480.42	467.38	1000	962.4	ug/L	-4	10	
Thallium	A	11.054	11.517	5000	4997	ug/L	0	10	
Tin	A	16.706	16.716	5000	4834	ug/L	-3	10	
Titanium	A	1277.8	1255.3	5000	4982	ug/L	0	10	
Vanadium	A	114.83	115.40	5000	4999	ug/L	0	10	
Zinc	A	67.698	58.160	5000	5031	ug/L	1	10	
Aluminum	R	1.7722	1.7440	20000	20070	ug/L	0	10	
Calcium	R	16.927	16.451	20000	20550	ug/L	3	10	
Iron	R	13.413	13.477	20000	20780	ug/L	4	10	
Magnesium	R	1.9886	2.0260	20000	20730	ug/L	4	10	
Potassium	R	4.2233	4.4753	20000	20190	ug/L	1	10	
Sodium	R	12.362	12.230	20000	20470	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3111340	-6.70

87455659156

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87455659158 File : 111207ar Time : 12-NOV-2007 20:35
Cal : 87455659001 Caldate : 12-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[25.72]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3250533	-2.52

!=warning ib=instrument blank

87455659158

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659170
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 21:19

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	25.161	5000	5013	ug/L	0	10	
Arsenic	A	14.554	15.646	5000	5459	ug/L	9	10	
Barium	A	407.51	414.01	5000	5188	ug/L	4	10	
Beryllium	A	3069.5	3126.5	500.0	510.0	ug/L	2	10	
Boron	A	153.66	159.82	5000	4999	ug/L	0	10	
Cadmium	A	175.02	178.79	5000	5236	ug/L	5	10	
Chromium	A	65.686	64.641	5000	4993	ug/L	0	10	
Cobalt	A	105.98	105.73	5000	4958	ug/L	-1	10	
Copper	A	415.66	443.00	5000	5022	ug/L	0	10	
Lead	A	34.409	37.809	5000	5079	ug/L	2	10	
Manganese	A	1292.3	1282.7	5000	5119	ug/L	2	10	
Molybdenum	A	29.394	29.371	5000	5009	ug/L	0	10	
Nickel	A	35.836	36.156	5000	5047	ug/L	1	10	
Selenium	A	22.121	21.730	5000	5013	ug/L	0	10	
Silver	A	480.42	468.86	1000	965.4	ug/L	-3	10	
Thallium	A	11.054	11.455	5000	4970	ug/L	-1	10	
Tin	A	16.706	16.816	5000	4863	ug/L	-3	10	
Titanium	A	1277.8	1272.2	5000	5049	ug/L	1	10	
Vanadium	A	114.83	116.47	5000	5045	ug/L	1	10	
Zinc	A	67.698	58.580	5000	5067	ug/L	1	10	
Aluminum	R	1.7722	1.7346	20000	19970	ug/L	0	10	
Calcium	R	16.927	16.231	20000	20270	ug/L	1	10	
Iron	R	13.413	13.104	20000	20200	ug/L	1	10	
Magnesium	R	1.9886	1.9709	20000	20160	ug/L	1	10	.
Potassium	R	4.2233	4.4865	20000	20240	ug/L	1	10	
Sodium	R	12.362	12.616	20000	21110	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3147656	-5.61

87455659170

00310

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87455659172 File : 111207ar Time : 12-NOV-2007 21:26
Cal : 87455659001 Caldate : 12-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[27.69]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[184.7]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3263166	-2.15

!=warning ib=instrument blank

87455659172

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87455659174 File : 111207ar Time : 12-NOV-2007 21:33
Cal : 87455659001 Caldate : 12-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	547.0	ug/L	9	20	
Arsenic	A	500.0	594.2	ug/L	19	20	
Barium	A	500.0	541.4	ug/L	8	20	
Beryllium	A	500.0	551.7	ug/L	10	20	
Cadmium	A	1000	1014	ug/L	1	20	
Chromium	A	500.0	513.4	ug/L	3	20	
Cobalt	A	500.0	458.2	ug/L	-8	20	
Copper	A	500.0	522.2	ug/L	4	20	
Lead	A	1000	960.0	ug/L	-4	20	
Manganese	A	500.0	477.1	ug/L	-5	20	
Molybdenum	A	500.0	512.2	ug/L	2	20	
Nickel	A	1000	933.2	ug/L	-7	20	
Selenium	A	500.0	531.6	ug/L	6	20	
Silver	A	1000	1121	ug/L	12	20	
Thallium	A	500.0	473.6	ug/L	-5	20	
Titanium	A	20000	20650	ug/L	3		
Vanadium	A	500.0	545.4	ug/L	9	20	
Zinc	A	1000	1028	ug/L	3	20	
Aluminum	R	500000	545300	ug/L	9		
Calcium	R	500000	522600	ug/L	5		
Iron	R	200000	197600	ug/L	-1		
Magnesium	R	500000	522300	ug/L	4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	2741414	-17.79

87455659174

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87455659176
Cal : 87455659001
Standards: S7554

File : 111207ar
Caldate : 12-NOV-2007

IDF : 1.0
Time : 12-NOV-2007 21:40

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	26.030	24.727	5000	4926	ug/L	-1	10	
Arsenic	A	14.554	15.443	5000	5388	ug/L	8	10	
Barium	A	407.51	410.11	5000	5139	ug/L	3	10	
Beryllium	A	3069.5	3107.4	500.0	506.9	ug/L	1	10	
Boron	A	153.66	157.82	5000	4936	ug/L	-1	10	
Cadmium	A	175.02	177.74	5000	5206	ug/L	4	10	
Chromium	A	65.686	63.995	5000	4943	ug/L	-1	10	
Cobalt	A	105.98	104.85	5000	4917	ug/L	-2	10	
Copper	A	415.66	437.25	5000	4956	ug/L	-1	10	
Lead	A	34.409	36.955	5000	4965	ug/L	-1	10	
Manganese	A	1292.3	1271.2	5000	5073	ug/L	1	10	
Molybdenum	A	29.394	28.985	5000	4943	ug/L	-1	10	
Nickel	A	35.836	35.729	5000	4987	ug/L	0	10	
Selenium	A	22.121	21.407	5000	4938	ug/L	-1	10	
Silver	A	480.42	464.46	1000	956.4	ug/L	-4	10	
Thallium	A	11.054	11.290	5000	4898	ug/L	-2	10	
Tin	A	16.706	16.429	5000	4751	ug/L	-5	10	
Titanium	A	1277.8	1259.1	5000	4997	ug/L	0	10	
Vanadium	A	114.83	115.07	5000	4984	ug/L	0	10	
Zinc	A	67.698	58.203	5000	5034	ug/L	1	10	
Aluminum	R	1.7722	1.7476	20000	20120	ug/L	1	10	
Calcium	R	16.927	16.514	20000	20630	ug/L	3	10	
Iron	R	13.413	13.342	20000	20570	ug/L	3	10	
Magnesium	R	1.9886	2.0125	20000	20590	ug/L	3	10	
Potassium	R	4.2233	4.5464	20000	20510	ug/L	3	10	
Sodium	R	12.362	12.705	20000	21260	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3171359	-4.90

87455659176

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87455659178 File : 111207ar Time : 12-NOV-2007 21:46
Cal : 87455659001 Caldate : 12-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[25.41]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[79.62]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3334698	3222830	-3.35

!=warning ib=instrument blank

87455659178

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.3263	1.3781	1.3580	1.3442	1.3393	1.3559	1.3283	1.3316	AVRG		0.74338		1.3452	1	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.4043	0.4088	0.3913	0.4038	0.3943	0.4059	0.4150	0.4326	AVRG		2.45701		0.4070	3	15	0.05	0.99	
Dibromofluoromethane							0.7375			AVRG		1.35587		0.7375	0	15	0.05	0.99	
1,2-Dichloroethane-d4							0.4211			AVRG		2.37480		0.4211	0	15	0.05	0.99	
Toluene-d8							1.0754			AVRG		0.92986		1.0754	0	15	0.05	0.99	
Bromofluorobenzene							1.2863			AVRG		0.77745		1.2863	0	15	0.05	0.99	

REPORTING SUMMARY FOR 198880 MSVOA Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF
198880-003	MSVOA08	11/05/07 17:46	1.0
198880-004	MSVOA08	11/05/07 19:02	1.0
QC413783	MSVOA08	11/05/07 17:01	1.0
QC413784	MSVOA08	11/05/07 15:01	1.0
QC413785	MSVOA08	11/05/07 15:39	1.0
QC413832	MSVOA08	11/05/07 22:38	1.0

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 MSVOA Soil: EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 887436786002 Date : 30-OCT-2007 17:42 Type : SOIL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	lju14	887436786014	2.5PPB	30-OCT-2007 17:42	S7425 (20000X), S7424 (20000X), S7365 (5000X)
L2	lju15	887436786015	5PPB	30-OCT-2007 18:14	S7425 (10000X), S7424 (10000X), S7365 (5000X)
L3	lju16	887436786016	10PPB	30-OCT-2007 18:47	S7425 (5000X), S7424 (5000X), S7365 (5000X)
L4	lju17	887436786017	20PPB	30-OCT-2007 19:19	S7417 (25000X), S7531 (25000X), S7365 (5000X)
L5	lju18	887436786018	50PPB	30-OCT-2007 19:51	S7417 (10000X), S7531 (10000X), S7365 (5000X)
L6	lju19	887436786019	60PPB	30-OCT-2007 20:23	S7417 (8333X), S7531 (8333X), S7365 (5000X)
L7	lju20	887436786020	75PPB	30-OCT-2007 20:56	S7417 (6667X), S7531 (6667X), S7365 (5000X)
L8	lju21	887436786021	100PPB	30-OCT-2007 21:28	S7417 (5000X), S7531 (5000X), S7365 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6356	0.5744	0.7385	0.8076	0.8088	0.8065	0.7544	AVRG		1.36562		0.7323	13	15	0.05	0.99	
Chloromethane		1.3230	1.2720	1.3574	1.3839	1.3471	1.3262	1.2206	AVRG		0.75837		1.3186	4	15	0.10	0.99	
Vinyl Chloride	1.3841	1.2800	1.2958	1.3439	1.4293	1.3724	1.3850	1.2895	AVRG		0.74212		1.3475	4	15	0.05	0.99	
Bromomethane		0.7816	0.7795	0.7243	0.7960	0.7932	0.7962	0.7472	AVRG		1.29199		0.7740	4	15	0.05	0.99	
Chloroethane		0.8583	0.8303	0.7991	0.8628	0.8445	0.8419	0.7758	AVRG		1.20426		0.8304	4	15	0.05	0.99	
Trichlorofluoromethane		1.6479	1.6562	1.5592	1.7356	1.7086	1.7288	1.6252	AVRG		0.60026		1.6659	4	15	0.05	0.99	
Acetone			0.2710	0.2658	0.2126	0.2399	0.2079	0.1885	AVRG		4.33023		0.2309	14	15	0.05	0.99	
Freon 113		1.0336	0.8471	0.7361	0.7825	0.7769	0.7636	0.7141	AVRG		1.23807		0.8077	13	15	0.05	0.99	
1,1-Dichloroethene		0.7866	0.5853	0.5145	0.5881	0.6054	0.6056	0.5888	AVRG		1.63765		0.6106	14	15	0.05	0.99	
Methylene Chloride			0.8144	0.7279	0.7450	0.7498	0.7380	0.6923	AVRG		1.34311		0.7445	5	15	0.05	0.99	
Carbon Disulfide		2.6215	2.5239	2.2249	2.3761	2.3561	2.3064	2.1720	AVRG		0.42217		2.3687	7	15	0.05	0.99	
MTBE		1.4417	1.4406	1.4464	1.6811	1.7151	1.7485	1.7119	AVRG		0.62583		1.5979	9	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6835	0.7132	0.6665	0.7078	0.7282	0.7248	0.6937	AVRG		1.42345		0.7025	3	15	0.05	0.99	
Vinyl Acetate		0.6667	0.7004	0.9370	1.0952	1.1373	1.1559	1.1318	LINR	3.29423	0.84369		0.9749	0.999	15	0.05	0.99	
1,1-Dichloroethane		1.4451	1.3960	1.2843	1.3630	1.3760	1.3553	1.2916	AVRG		0.73598		1.3587	4	15	0.10	0.99	
2-Butanone			0.2877	0.2674	0.2914	0.2920	0.3063	0.2963	AVRG		3.44618		0.2902	4	15	0.05	0.99	
2,2-Dichloropropane		1.1173	1.0992	1.0082	1.0917	1.1108	1.1017	1.0677	AVRG		0.92146		1.0852	3	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6665	0.6863	0.6777	0.7521	0.7807	0.7557	0.7345	AVRG		1.38517		0.7219	6	15	0.05	0.99	
Chloroform		1.3775	1.3748	1.2162	1.2723	1.2932	1.2725	1.2366	AVRG		0.77408		1.2919	5	15	0.05	0.99	
Bromochloromethane		0.3421	0.3475	0.3221	0.3390	0.3474	0.3454	0.3390	AVRG		2.93813		0.3404	3	15	0.05	0.99	
1,1,1-Trichloroethane		1.2560	1.2266	1.0895	1.1358	1.1688	1.1369	1.1025	AVRG		0.86249		1.1594	5	15	0.05	0.99	
1,1-Dichloropropene		0.5890	0.6140	0.5803	0.6869	0.7046	0.6977	0.6820	AVRG		1.53688		0.6507	8	15	0.05	0.99	
Carbon Tetrachloride		0.7121	0.7190	0.6299	0.7003	0.7014	0.6895	0.6737	AVRG		1.45052		0.6894	4	15	0.05	0.99	
1,2-Dichloroethane		0.6784	0.6419	0.5973	0.6131	0.6180	0.6047	0.5891	AVRG		1.61199		0.6203	5	15	0.05	0.99	
Benzene		2.2478	2.2492	1.9969	2.1758	2.1683	2.0912	1.9895	AVRG		0.46921		2.1312	5	15	0.05	0.99	

198880 QS181

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4757	0.4690	0.4415	0.4913	0.5008	0.4973	0.4848	AVRG		2.08303		0.4801	4	15	0.05	0.99	
1,2-Dichloropropane		0.4802	0.4848	0.4662	0.5074	0.5096	0.5019	0.4953	AVRG		2.03169		0.4922	3	15	0.05	0.99	
Bromodichloromethane		0.6196	0.6119	0.5542	0.6125	0.6161	0.6134	0.6016	AVRG		1.65506		0.6042	4	15	0.05	0.99	
Dibromomethane		0.2575	0.2564	0.2301	0.2448	0.2497	0.2449	0.2389	AVRG		4.06439		0.2460	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.3513	0.3956	0.4153	0.4653	0.4673	0.4853	0.4728	AVRG		2.29287		0.4361	11	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6185	0.6744	0.6721	0.7726	0.7833	0.7780	0.7608	AVRG		1.38350		0.7228	9	15	0.05	0.99	
Toluene		1.3914	1.4214	1.2814	1.4173	1.4415	1.4047	1.3572	AVRG		0.72055		1.3878	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5481	0.5930	0.5715	0.6572	0.6817	0.6860	0.6806	AVRG		1.58440		0.6312	9	15	0.05	0.99	
1,1,2-Trichloroethane		0.2325	0.2082	0.1986	0.2126	0.2138	0.2115	0.2089	AVRG		4.71063		0.2123	5	15	0.05	0.99	
2-Hexanone			0.2640	0.2820	0.3340	0.3390	0.3618	0.3474	AVRG		3.11156		0.3214	12	15	0.05	0.99	
1,3-Dichloropropane		0.7565	0.7457	0.7367	0.7512	0.7751	0.7619	0.7293	AVRG		1.33172		0.7509	2	15	0.05	0.99	
Tetrachloroethene		0.6162	0.6110	0.5551	0.6068	0.6206	0.6055	0.5934	AVRG		1.66335		0.6012	4	15	0.05	0.99	
Dibromochloromethane		0.4285	0.4330	0.4063	0.4398	0.4624	0.4534	0.4426	AVRG		2.28318		0.4380	4	15	0.05	0.99	
1,2-Dibromoethane		0.3431	0.3398	0.3182	0.3615	0.3650	0.3724	0.3626	AVRG		2.84254		0.3518	5	15	0.05	0.99	
Chlorobenzene		1.6946	1.7050	1.5384	1.6412	1.6838	1.6274	1.5720	AVRG		0.61070		1.6375	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.5745	0.5778	0.5115	0.5429	0.5637	0.5536	0.5376	AVRG		1.81266		0.5517	4	15	0.05	0.99	
Ethylbenzene		2.6736	2.9031	2.7050	2.9936	3.0521	2.9643	2.7765	AVRG		0.34881		2.8669	5	15	0.05	0.99	
m,p-Xylenes	0.9913	1.0776	1.1954	1.1107	1.2275	1.2596	1.2186	1.1631	AVRG		0.86543		1.1555	8	15	0.05	0.99	
o-Xylene		0.8571	0.9888	0.9634	1.1565	1.1982	1.1929	1.1680	AVRG		0.93025		1.0750	13	15	0.05	0.99	
Styrene		1.3964	1.6473	1.6136	1.8679	1.9458	1.9370	1.8823	AVRG		0.56956		1.7558	12	15	0.05	0.99	
Bromoform		0.2947	0.3096	0.3016	0.3363	0.3510	0.3603	0.3596	AVRG		3.02622		0.3304	9	15	0.10	0.99	
Isopropylbenzene		3.4178	3.8897	3.7870	4.4566	4.5843	4.3797	4.2705	AVRG		0.24318		4.1123	10	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9979	1.0049	0.9140	0.9409	0.9597	0.9293	0.9397	AVRG		1.04692		0.9552	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.9782	1.0343	0.9307	0.9640	0.9860	0.9705	0.9695	AVRG		1.02441		0.9762	3	15	0.05	0.99	
Propylbenzene		5.1030	5.6811	5.2346	5.8409	5.9023	5.4987	5.2158	AVRG		0.18193		5.4966	6	15	0.05	0.99	
Bromobenzene		1.1249	1.1101	1.0029	1.0932	1.1339	1.1025	1.1039	AVRG		0.91248		1.0959	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.3189	3.7621	3.5999	4.1254	4.2307	4.0306	3.9281	AVRG		0.25930		3.8565	8	15	0.05	0.99	
2-Chlorotoluene		3.6893	3.8899	3.5291	3.8769	3.9657	3.7628	3.7224	AVRG		0.26479		3.7766	4	15	0.05	0.99	
4-Chlorotoluene		3.0536	3.2984	3.0339	3.4276	3.5314	3.3519	3.3091	AVRG		0.30427		3.2866	6	15	0.05	0.99	
tert-Butylbenzene		2.7770	3.2554	3.1459	3.6803	3.7686	3.6167	3.5396	AVRG		0.29432		3.3976	10	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.5010	4.0463	3.7947	4.2558	4.3307	4.1229	3.9870	AVRG		0.24966		4.0055	7	15	0.05	0.99	
sec-Butylbenzene		4.7047	5.2731	5.0313	5.7427	5.8009	5.4711	5.1993	AVRG		0.18806		5.3176	7	15	0.05	0.99	
para-Isopropyl Toluene		3.7172	4.4274	4.2347	4.8549	4.9170	4.6837	4.5072	AVRG		0.22334		4.4774	9	15	0.05	0.99	
1,3-Dichlorobenzene		2.3472	2.3573	2.1469	2.3419	2.4125	2.2924	2.2964	AVRG		0.43224		2.3135	4	15	0.05	0.99	
1,4-Dichlorobenzene		2.5887	2.5265	2.2669	2.4073	2.4638	2.3332	2.3224	AVRG		0.41399		2.4155	5	15	0.05	0.99	
n-Butylbenzene		3.6688	4.1918	4.0838	4.6960	4.7569	4.4909	4.3248	AVRG		0.23169		4.3162	9	15	0.05	0.99	
1,2-Dichlorobenzene		2.0585	2.1184	1.9770	2.1276	2.1951	2.1074	2.0900	AVRG		0.47703		2.0963	3	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1785	0.1768	0.1750	0.1916	0.1915	0.1941	0.1963	AVRG		5.36879		0.1863	5	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.1929	1.2856	1.2655	1.5060	1.5614	1.5322	1.5548	AVRG		0.70719		1.4140	11	15	0.05	0.99	
Hexachlorobutadiene		0.9433	1.0042	0.9117	1.0054	1.0391	0.9951	0.9950	AVRG		1.01539		0.9848	4	15	0.05	0.99	
Naphthalene		2.0541	2.3485	2.6654	3.2712	3.3408	3.3679	3.3888	LINR	3.27229	0.28497		2.9195	0.999	15	0.05	0.99	

901892

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		1.2139	1.2834	1.2499	1.4503	1.4943	1.4713	1.4786	AVRG		0.72601		1.3774	9	15	0.05	0.99	
Dibromofluoromethane	0.4766	0.4677	0.4674	0.4605	0.4702	0.4567	0.4631	0.4528	AVRG		2.15348		0.4644	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3758	0.3907	0.3731	0.3786	0.3880	0.3791	0.3832	0.3761	AVRG		2.62751		0.3806	2	15	0.05	0.99	
Trifluorotoluene		0.8856	0.9148	0.7905	0.9040	0.9161	0.9103	0.8820	AVRG		1.12844		0.8862	5	15	0.05	0.99	
Toluene-d8	1.2230	1.2255	1.2302	1.2396	1.2390	1.2312	1.2333	1.2080	AVRG		0.81385		1.2287	1	15	0.05	0.99	
Bromofluorobenzene	0.8058	0.7996	0.8126	0.8158	0.8438	0.8579	0.8431	0.8601	AVRG		1.20508		0.8298	3	15	0.05	0.99	

001823

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-13	10.00	-22	20.00	1	50.00	10	60.00	10	75.00	10	100.0	3
Chloromethane			5.000	0	10.00	-4	20.00	3	50.00	5	60.00	2	75.00	1	100.0	-7
Vinyl Chloride	2.500	3	5.000	-5	10.00	-4	20.00	0	50.00	6	60.00	2	75.00	3	100.0	-4
Bromomethane			5.000	1	10.00	1	20.00	-6	50.00	3	60.00	2	75.00	3	100.0	-3
Chloroethane			5.000	3	10.00	0	20.00	-4	50.00	4	60.00	2	75.00	1	100.0	-7
Trichlorofluoromethane			5.000	-1	10.00	-1	20.00	-6	50.00	4	60.00	3	75.00	4	100.0	-2
Acetone					10.00	17	20.00	15	50.00	-8	60.00	4	75.00	-10	100.0	-18
Freon 113			5.000	28	10.00	5	20.00	-9	50.00	-3	60.00	-4	75.00	-5	100.0	-12
1,1-Dichloroethene			5.000	29	10.00	-4	20.00	-16	50.00	-4	60.00	-1	75.00	-1	100.0	-4
Methylene Chloride					10.00	9	20.00	-2	50.00	0	60.00	1	75.00	-1	100.0	-7
Carbon Disulfide			5.000	11	10.00	7	20.00	-6	50.00	0	60.00	-1	75.00	-3	100.0	-8
MTBE			5.000	-10	10.00	-10	20.00	-9	50.00	5	60.00	7	75.00	9	100.0	7
trans-1,2-Dichloroethene			5.000	-3	10.00	2	20.00	-5	50.00	1	60.00	4	75.00	3	100.0	-1
Vinyl Acetate			5.000	22	10.00	-8	20.00	-4	50.00	-1	60.00	1	75.00	2	100.0	-1
1,1-Dichloroethane			5.000	6	10.00	3	20.00	-5	50.00	0	60.00	1	75.00	0	100.0	-5
2-Butanone					10.00	-1	20.00	-8	50.00	0	60.00	1	75.00	6	100.0	2
2,2-Dichloropropane			5.000	3	10.00	1	20.00	-7	50.00	1	60.00	2	75.00	2	100.0	-2
cis-1,2-Dichloroethene			5.000	-8	10.00	-5	20.00	-6	50.00	4	60.00	8	75.00	5	100.0	2
Chloroform			5.000	7	10.00	6	20.00	-6	50.00	-2	60.00	0	75.00	-2	100.0	-4
Bromochloromethane			5.000	1	10.00	2	20.00	-5	50.00	0	60.00	2	75.00	1	100.0	0
1,1,1-Trichloroethane			5.000	8	10.00	6	20.00	-6	50.00	-2	60.00	1	75.00	-2	100.0	-5
1,1-Dichloropropene			5.000	-9	10.00	-6	20.00	-11	50.00	6	60.00	8	75.00	7	100.0	5
Carbon Tetrachloride			5.000	3	10.00	4	20.00	-9	50.00	2	60.00	2	75.00	0	100.0	-2
1,2-Dichloroethane			5.000	9	10.00	3	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-5
Benzene			5.000	5	10.00	6	20.00	-6	50.00	2	60.00	2	75.00	-2	100.0	-7
Trichloroethene			5.000	-1	10.00	-2	20.00	-8	50.00	2	60.00	4	75.00	4	100.0	1
1,2-Dichloropropane			5.000	-2	10.00	-1	20.00	-5	50.00	3	60.00	4	75.00	2	100.0	1
Bromodichloromethane			5.000	3	10.00	1	20.00	-8	50.00	1	60.00	2	75.00	2	100.0	0
Dibromomethane			5.000	5	10.00	4	20.00	-6	50.00	-1	60.00	1	75.00	0	100.0	-3
4-Methyl-2-Pentanone			5.000	-19	10.00	-9	20.00	-5	50.00	7	60.00	7	75.00	11	100.0	8
cis-1,3-Dichloropropene			5.000	-14	10.00	-7	20.00	-7	50.00	7	60.00	8	75.00	8	100.0	5
Toluene			5.000	0	10.00	2	20.00	-8	50.00	2	60.00	4	75.00	1	100.0	-2
trans-1,3-Dichloropropene			5.000	-13	10.00	-6	20.00	-9	50.00	4	60.00	8	75.00	9	100.0	8
1,1,2-Trichloroethane			5.000	10	10.00	-2	20.00	-6	50.00	0	60.00	1	75.00	0	100.0	-2
2-Hexanone					10.00	-18	20.00	-12	50.00	4	60.00	5	75.00	13	100.0	8
1,3-Dichloropropane			5.000	1	10.00	-1	20.00	-2	50.00	0	60.00	3	75.00	1	100.0	-3
Tetrachloroethene			5.000	2	10.00	2	20.00	-8	50.00	1	60.00	3	75.00	1	100.0	-1
Dibromochloromethane			5.000	-2	10.00	-1	20.00	-7	50.00	0	60.00	6	75.00	4	100.0	1
1,2-Dibromoethane			5.000	-2	10.00	-3	20.00	-10	50.00	3	60.00	4	75.00	6	100.0	3
Chlorobenzene			5.000	3	10.00	4	20.00	-6	50.00	0	60.00	3	75.00	-1	100.0	-4
1,1,1,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-7	50.00	-2	60.00	2	75.00	0	100.0	-3
Ethylbenzene			5.000	-7	10.00	1	20.00	-6	50.00	4	60.00	6	75.00	3	100.0	-3

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	-14	10.00	-7	20.00	3	40.00	-4	100.0	6	120.0	9	150.0	5	200.0	1
o-Xylene			5.000	-20	10.00	-8	20.00	-10	50.00	8	60.00	11	75.00	11	100.0	9
Styrene			5.000	-20	10.00	-6	20.00	-8	50.00	6	60.00	11	75.00	10	100.0	7
Bromoform			5.000	-11	10.00	-6	20.00	-9	50.00	2	60.00	6	75.00	9	100.0	9
Isopropylbenzene			5.000	-17	10.00	-5	20.00	-8	50.00	8	60.00	11	75.00	7	100.0	4
1,1,2,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-2
1,2,3-Trichloropropane			5.000	0	10.00	6	20.00	-5	50.00	-1	60.00	1	75.00	-1	100.0	-1
Propylbenzene			5.000	-7	10.00	3	20.00	-5	50.00	6	60.00	7	75.00	0	100.0	-5
Bromobenzene			5.000	3	10.00	1	20.00	-8	50.00	0	60.00	3	75.00	1	100.0	1
1,3,5-Trimethylbenzene			5.000	-14	10.00	-2	20.00	-7	50.00	7	60.00	10	75.00	5	100.0	2
2-Chlorotoluene			5.000	-2	10.00	3	20.00	-7	50.00	3	60.00	5	75.00	0	100.0	-1
4-Chlorotoluene			5.000	-7	10.00	0	20.00	-8	50.00	4	60.00	7	75.00	2	100.0	1
tert-Butylbenzene			5.000	-18	10.00	-4	20.00	-7	50.00	8	60.00	11	75.00	6	100.0	4
1,2,4-Trimethylbenzene			5.000	-13	10.00	1	20.00	-5	50.00	6	60.00	8	75.00	3	100.0	0
sec-Butylbenzene			5.000	-12	10.00	-1	20.00	-5	50.00	8	60.00	9	75.00	3	100.0	-2
para-Isopropyl Toluene			5.000	-17	10.00	-1	20.00	-5	50.00	8	60.00	10	75.00	5	100.0	1
1,3-Dichlorobenzene			5.000	1	10.00	2	20.00	-7	50.00	1	60.00	4	75.00	-1	100.0	-1
1,4-Dichlorobenzene			5.000	7	10.00	5	20.00	-6	50.00	0	60.00	2	75.00	-3	100.0	-4
n-Butylbenzene			5.000	-15	10.00	-3	20.00	-5	50.00	9	60.00	10	75.00	4	100.0	0
1,2-Dichlorobenzene			5.000	-2	10.00	1	20.00	-6	50.00	1	60.00	5	75.00	1	100.0	0
1,2-Dibromo-3-Chloropropane			5.000	-4	10.00	-5	20.00	-6	50.00	3	60.00	3	75.00	4	100.0	5
1,2,4-Trichlorobenzene			5.000	-16	10.00	-9	20.00	-11	50.00	7	60.00	10	75.00	8	100.0	10
Hexachlorobutadiene			5.000	-4	10.00	2	20.00	-7	50.00	2	60.00	6	75.00	1	100.0	1
Naphthalene			5.000	24	10.00	0	20.00	-8	50.00	0	60.00	1	75.00	0	100.0	0
1,2,3-Trichlorobenzene			5.000	-12	10.00	-7	20.00	-9	50.00	5	60.00	8	75.00	7	100.0	7
Dibromofluoromethane	50.00	3	50.00	1	50.00	1	50.00	-1	50.00	1	50.00	-2	50.00	0	50.00	-2
1,2-Dichloroethane-d4	50.00	-1	50.00	3	50.00	-2	50.00	-1	50.00	2	50.00	0	50.00	1	50.00	-1
Trifluorotoluene			5.000	0	10.00	3	20.00	-11	50.00	2	60.00	3	75.00	3	100.0	0
Toluene-d8	50.00	0	50.00	0	50.00	0	50.00	1	50.00	1	50.00	0	50.00	0	50.00	-2
Bromofluorobenzene	50.00	-3	50.00	-4	50.00	-2	50.00	-2	50.00	2	50.00	3	50.00	2	50.00	4

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

REPORTING SUMMARY FOR 198880 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF
198880-001	MSVOA12	M	11/02/07 03:58	5000
198880-001	MSVOA12	M	11/02/07 15:26	250.0
198880-001	MSVOA12	M	11/05/07 18:25	250.0
198880-002	MSVOA12	N	11/02/07 14:54	0.9804
QC413261	MSVOA12	N	11/01/07 15:43	1.0
QC413262	MSVOA12	N	11/01/07 14:06	1.0
QC413288	MSVOA12	M	11/01/07 15:11	25.0
QC413337	MSVOA12	N	11/02/07 02:21	1.136
QC413338	MSVOA12	N	11/02/07 02:53	1.111
QC413342	MSVOA12	N	11/01/07 19:53	1.0
QC413434	MSVOA12	N	11/02/07 12:45	1.0
QC413435	MSVOA12	N	11/02/07 10:57	1.0
QC413436	MSVOA12	N	11/02/07 11:30	1.0
QC413524	MSVOA12	M	11/02/07 18:08	25.0
QC413552	MSVOA12	M	11/02/07 20:50	500.0
QC413553	MSVOA12	M	11/02/07 21:23	500.0
QC413653	MSVOA12	N	11/05/07 14:38	1.0
QC413654	MSVOA12	N	11/05/07 13:33	1.0
QC413782	MSVOA12	M	11/05/07 15:10	25.0

REPORTING SUMMARY FOR 198880 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF	
QC413789	MSVOA12	N	11/05/07 22:44	1.0	
QC413790	MSVOA12	N	11/05/07 23:16	1.0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517441291001
Units : ug/mL

Name : 2PAHSIM
Date : 02-NOV-2007 14:33
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	uk207	517441291007	0.1/0.5UG/ML PAHDIOX	02-NOV-2007 14:33	S7213
L2	uk208	517441291008	0.2/1.0UG/ML PAHDIOX	02-NOV-2007 15:14	S7214
L3	uk209	517441291009	0.5/2.5UG/ML PAHDIOX	02-NOV-2007 15:55	S7215
L4	uk210	517441291010	1.0/5.0UG/ML PAHDIOX	02-NOV-2007 16:31	S7216
L5	uk211	517441291011	2.0/10.0UG/ML PAHDIO	02-NOV-2007 17:07	S7217
L6	uk212	517441291012	5.0/25.0UG/ML PAHDIO	02-NOV-2007 17:43	S7218
L7	uk213	517441291013	10.0/50.0UG/ML PAHDI	02-NOV-2007 18:19	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0639	1.0823	1.0856	1.1040	1.1332	1.1131	1.0916	AVRG		0.91222		1.0962	2	15	0.05	0.99	
2-Methylnaphthalene	0.6357	0.6327	0.6493	0.6889	0.7064	0.6851	0.6560	AVRG		1.50406		0.6649	4	15	0.05	0.99	
Acenaphthylene	1.8691	1.9772	1.8721	1.8864	1.9509	2.0678	1.9515	AVRG		0.51566		1.9393	4	15	0.05	0.99	
Acenaphthene	1.0159	1.0928	1.0242	1.0541	1.1281	1.1167	1.0762	AVRG		0.93232		1.0726	4	15	0.05	0.99	
Fluorene	1.2548	1.3014	1.2069	1.2491	1.2902	1.3355	1.2057	AVRG		0.79154		1.2634	4	15	0.05	0.99	
Phenanthrene	1.1292m	1.2024	1.1937	1.2045	1.1824	1.1754	1.2048	AVRG		0.84414		1.1846	2	15	0.05	0.99	
Anthracene	1.0203m	1.1253m	1.0649m	1.0639m	1.1298	1.0908m	1.0707	AVRG		0.92521		1.0808	4	15	0.05	0.99	
Fluoranthene	1.0832	1.1668	1.1140	1.1525	1.2037	1.1694	1.2065	AVRG		0.86463		1.1566	4	15	0.05	0.99	
Pyrene	1.8526	2.0391	1.8341	1.8720	1.7668	1.7596	1.6633	AVRG		0.54741		1.8268	6	15	0.05	0.99	
Benzo(a)anthracene	1.1417	1.1877m	1.1715	1.2070	1.2427	1.2768	1.2573	AVRG		0.82502		1.2121	4	15	0.05	0.99	
Chrysene	1.1638m	1.2611m	1.1702m	1.2135m	1.2485	1.1741	1.1845	AVRG		0.83179		1.2022	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3117	1.4346m	1.4072	1.5151	1.4590	1.4492	1.4097	AVRG		0.70094		1.4267	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.2810m	1.4441	1.4226	1.4871	1.4949	1.6051	1.6111	AVRG		0.67660		1.4780	8	15	0.05	0.99	
Benzo(a)pyrene	0.9774m	1.0759	1.0971	1.1613	1.2506	1.2644	1.2978	AVRG		0.86160		1.1606	10	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9592m	0.9941m	1.0273m	1.0226	1.1734	1.2215	1.2664	AVRG		0.91331		1.0949	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6926m	0.8080m	0.7864	0.7933	0.9054	0.9571	1.0173	AVRG		1.17447		0.8514	13	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9227m	0.9829m	0.9663	0.9096	1.0016	1.0677	1.0671	AVRG		1.01188		0.9883	6	15	0.05	0.99	
Nitrobenzene-d5	0.2886m	0.2785m	0.2938m	0.2894m	0.2991	0.3061	0.2988	AVRG		3.40744		0.2935	3	15	0.05	0.99	
2-Fluorobiphenyl	1.3097	1.3536	1.2990	1.2974	1.2619	1.3343	1.2572	AVRG		0.76813		1.3019	3	15	0.05	0.99	
Terphenyl-d14	1.2533	1.2554	1.2006	1.2455	1.2170	1.1718	1.1433	AVRG		0.82481		1.2124	4	15	0.05	0.99	

09215

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	-1	1.000	1	2.000	3	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-4	0.200	-5	0.500	-2	1.000	4	2.000	6	5.000	3	10.00	-1
Acenaphthylene	0.100	-4	0.200	2	0.500	-3	1.000	-3	2.000	1	5.000	7	10.00	1
Acenaphthene	0.100	-5	0.200	2	0.500	-5	1.000	-2	2.000	5	5.000	4	10.00	0
Fluorene	0.100	-1	0.200	3	0.500	-4	1.000	-1	2.000	2	5.000	6	10.00	-5
Phenanthrene	0.100	-5	0.200	1	0.500	1	1.000	2	2.000	0	5.000	-1	10.00	2
Anthracene	0.100	-6	0.200	4	0.500	-1	1.000	-2	2.000	5	5.000	1	10.00	-1
Fluoranthene	0.100	-6	0.200	1	0.500	-4	1.000	0	2.000	4	5.000	1	10.00	4
Pyrene	0.100	1	0.200	12	0.500	0	1.000	2	2.000	-3	5.000	-4	10.00	-9
Benzo(a)anthracene	0.100	-6	0.200	-2	0.500	-3	1.000	0	2.000	3	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	5	0.500	-3	1.000	1	2.000	4	5.000	-2	10.00	-1
Benzo(b)fluoranthene	0.100	-8	0.200	1	0.500	-1	1.000	6	2.000	2	5.000	2	10.00	-1
Benzo(k)fluoranthene	0.100	-13	0.200	-2	0.500	-4	1.000	1	2.000	1	5.000	9	10.00	9
Benzo(a)pyrene	0.100	-16	0.200	-7	0.500	-5	1.000	0	2.000	8	5.000	9	10.00	12
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-9	0.500	-6	1.000	-7	2.000	7	5.000	12	10.00	16
Dibenz(a,h)anthracene	0.100	-19	0.200	-5	0.500	-8	1.000	-7	2.000	6	5.000	12	10.00	19
Benzo(g,h,i)perylene	0.100	-7	0.200	-1	0.500	-2	1.000	-8	2.000	1	5.000	8	10.00	8
Nitrobenzene-d5	0.100	-2	0.200	-5	0.500	0	1.000	-1	2.000	2	5.000	4	10.00	2
2-Fluorobiphenyl	0.100	1	0.200	4	0.500	0	1.000	0	2.000	-3	5.000	2	10.00	-3
Terphenyl-d14	0.100	3	0.200	4	0.500	-1	1.000	3	2.000	0	5.000	-3	10.00	-6

JGM 11/02/07 : Manual integrations for tailing/misidentified peaks.

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	-1	1.000	1	2.000	3	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-4	0.200	-5	0.500	-2	1.000	4	2.000	6	5.000	3	10.00	-1
Acenaphthylene	0.100	-4	0.200	2	0.500	-3	1.000	-3	2.000	1	5.000	7	10.00	1
Acenaphthene	0.100	-5	0.200	2	0.500	-5	1.000	-2	2.000	5	5.000	4	10.00	0
Fluorene	0.100	-1	0.200	3	0.500	-4	1.000	-1	2.000	2	5.000	6	10.00	-5
Phenanthrene	0.100	-5	0.200	1	0.500	1	1.000	2	2.000	0	5.000	-1	10.00	2
Anthracene	0.100	-6	0.200	4	0.500	-1	1.000	-2	2.000	5	5.000	1	10.00	-1
Fluoranthene	0.100	-6	0.200	1	0.500	-4	1.000	0	2.000	4	5.000	1	10.00	4
Pyrene	0.100	1	0.200	12	0.500	0	1.000	2	2.000	-3	5.000	-4	10.00	-9
Benzo(a)anthracene	0.100	-6	0.200	-2	0.500	-3	1.000	0	2.000	3	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	5	0.500	-3	1.000	1	2.000	4	5.000	-2	10.00	-1
Benzo(b)fluoranthene	0.100	-8	0.200	1	0.500	-1	1.000	6	2.000	2	5.000	2	10.00	-1
Benzo(k)fluoranthene	0.100	-13	0.200	-2	0.500	-4	1.000	1	2.000	1	5.000	9	10.00	9
Benzo(a)pyrene	0.100	-16	0.200	-7	0.500	-5	1.000	0	2.000	8	5.000	9	10.00	12
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-9	0.500	-6	1.000	-7	2.000	7	5.000	12	10.00	16
Dibenz(a,h)anthracene	0.100	-19	0.200	-5	0.500	-8	1.000	-7	2.000	6	5.000	12	10.00	19
Benzo(g,h,i)perylene	0.100	-7	0.200	-1	0.500	-2	1.000	-8	2.000	1	5.000	8	10.00	8
Nitrobenzene-d5	0.100	-2	0.200	-5	0.500	0	1.000	-1	2.000	2	5.000	4	10.00	2
2-Fluorobiphenyl	0.100	1	0.200	4	0.500	0	1.000	0	2.000	-3	5.000	2	10.00	-3
Terphenyl-d14	0.100	3	0.200	4	0.500	-1	1.000	3	2.000	0	5.000	-3	10.00	-6

JGM 11/02/07 : Manual integrations for tailing/misidentified peaks.

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198880 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA08
Calnum : 577399499001
Units : ug/mL

Name : 8PAHSIM
Date : 04-OCT-2007 14:22
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sj408	577399499008	ICAL 1	04-OCT-2007 14:22	S7213
L2	sj409	577399499009	ICAL 2	04-OCT-2007 14:56	S7214
L3	sj410	577399499010	ICAL 3	04-OCT-2007 15:30	S7215
L4	sj411	577399499011	ICAL 4	04-OCT-2007 16:04	S7216
L5	sj412	577399499012	ICAL 5	04-OCT-2007 16:39	S7217
L6	sj413	577399499013	ICAL 6	04-OCT-2007 17:12	S7218
L7	sj414	577399499014	ICAL 7	04-OCT-2007 17:48	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0279	1.0515	1.0576	1.0897	1.1167	1.1535	1.2380	AVRG		0.90498		1.1050	7	15	0.05	0.99	
2-Methylnaphthalene	0.6403m	0.6568m	0.6877m	0.7160	0.7280m	0.7787	0.8453	AVRG		1.38539		0.7218	10	15	0.05	0.99	
Acenaphthylene	1.7392	1.8386	1.9029	1.9958	2.0197	2.1992	2.3361	AVRG		0.49888		2.0045	10	15	0.05	0.99	
Acenaphthene	1.0019	1.0569	1.0675	1.1020	1.1192	1.2126	1.2895	AVRG		0.89178		1.1214	9	15	0.05	0.99	
Fluorene	1.1914	1.2346	1.2475	1.3164	1.3582	1.4628	1.5782	AVRG		0.74555		1.3413	10	15	0.05	0.99	
Phenanthrene	1.1189m	1.1515	1.1377	1.1762	1.2097	1.2929	1.3921	AVRG		0.82557		1.2113	8	15	0.05	0.99	
Anthracene	0.9378m	1.0065m	1.0433m	1.0988m	1.1294m	1.2291m	1.3229m	AVRG		0.90116		1.1097	12	15	0.05	0.99	
Fluoranthene	1.1865	1.2445	1.2562	1.3463	1.3710	1.4915	1.6034	AVRG		0.73688		1.3571	11	15	0.05	0.99	
Pyrene	1.1893	1.2221	1.2595	1.2855	1.3234	1.3731	1.3996	AVRG		0.77327		1.2932	6	15	0.05	0.99	
Benzo(a)anthracene	1.0258	1.0731	1.0847	1.1222	1.1667	1.2004	1.2265	AVRG		0.88614		1.1285	6	15	0.05	0.99	
Chrysene	1.0339m	1.0823m	1.0962m	1.1245m	1.1405m	1.1794m	1.1936m	AVRG		0.89167		1.1215	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.1368	1.2311	1.2480	1.3220	1.3494	1.4862	1.5129	AVRG		0.75379		1.3266	10	15	0.05	0.99	
Benzo(k)fluoranthene	1.1967m	1.2520m	1.3252m	1.3825m	1.4218m	1.5105m	1.5616m	AVRG		0.72536		1.3786	10	15	0.05	0.99	
Benzo(a)pyrene	1.0597	1.1129	1.1625	1.2451	1.3016	1.4106	1.4795	AVRG		0.79800		1.2531	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2909	1.4000	1.4491	1.5667	1.6263	1.7915	1.8456	AVRG		0.63810		1.5672	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9958	1.0914	1.1341	1.2279	1.2881	1.4330	1.5289	AVRG		0.80467		1.2427	15	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1512	1.2277	1.2880	1.3571	1.3963	1.5107	1.5496	AVRG		0.73834		1.3544	11	15	0.05	0.99	
Nitrobenzene-d5	0.2170	0.2239	0.2350	0.2499	0.2509	0.2690	0.2799	AVRG		4.05662		0.2465	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2568	1.2885	1.3273	1.3749	1.4096	1.5071	1.5747	AVRG		0.71877		1.3913	8	15	0.05	0.99	
Terphenyl-d14	0.9554	0.9851	1.0067	1.0248	1.0466	1.0897	1.1118	AVRG		0.96951		1.0314	5	15	0.05	0.99	

0025239

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-7	0.200	-5	0.500	-4	1.000	-1	2.000	1	5.000	4	10.00	12
2-Methylnaphthalene	0.100	-11	0.200	-9	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	17
Acenaphthylene	0.100	-13	0.200	-8	0.500	-5	1.000	0	2.000	1	5.000	10	10.00	17
Acenaphthene	0.100	-11	0.200	-6	0.500	-5	1.000	-2	2.000	0	5.000	8	10.00	15
Fluorene	0.100	-11	0.200	-8	0.500	-7	1.000	-2	2.000	1	5.000	9	10.00	18
Phenanthrene	0.100	-8	0.200	-5	0.500	-6	1.000	-3	2.000	0	5.000	7	10.00	15
Anthracene	0.100	-15	0.200	-9	0.500	-6	1.000	-1	2.000	2	5.000	11	10.00	19
Fluoranthene	0.100	-13	0.200	-8	0.500	-7	1.000	-1	2.000	1	5.000	10	10.00	18
Pyrene	0.100	-8	0.200	-6	0.500	-3	1.000	-1	2.000	2	5.000	6	10.00	8
Benzo(a)anthracene	0.100	-9	0.200	-5	0.500	-4	1.000	-1	2.000	3	5.000	6	10.00	9
Chrysene	0.100	-8	0.200	-3	0.500	-2	1.000	0	2.000	2	5.000	5	10.00	6
Benzo(b)fluoranthene	0.100	-14	0.200	-7	0.500	-6	1.000	0	2.000	2	5.000	12	10.00	14
Benzo(k)fluoranthene	0.100	-13	0.200	-9	0.500	-4	1.000	0	2.000	3	5.000	10	10.00	13
Benzo(a)pyrene	0.100	-15	0.200	-11	0.500	-7	1.000	-1	2.000	4	5.000	13	10.00	18
Indeno(1,2,3-cd)pyrene	0.100	-18	0.200	-11	0.500	-8	1.000	0	2.000	4	5.000	14	10.00	18
Dibenz(a,h)anthracene	0.100	-20	0.200	-12	0.500	-9	1.000	-1	2.000	4	5.000	15	10.00	23
Benzo(g,h,i)perylene	0.100	-15	0.200	-9	0.500	-5	1.000	0	2.000	3	5.000	12	10.00	14
Nitrobenzene-d5	0.100	-12	0.200	-9	0.500	-5	1.000	1	2.000	2	5.000	9	10.00	14
2-Fluorobiphenyl	0.100	-10	0.200	-7	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	13
Terphenyl-d14	0.100	-7	0.200	-4	0.500	-2	1.000	-1	2.000	1	5.000	6	10.00	8

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

577399499001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87455659001
Units : ug/L

Reviewer : ---
Date : 12-NOV-2007 10:19
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111207ar	87455659002	CRIM08	12-NOV-2007 10:23	S7555
L2	111207ar	87455659003	CS100	12-NOV-2007 10:27	S7382
L3	111207ar	87455659004	CS1K	12-NOV-2007 10:30	S7381
L4	111207ar	87455659005	CS10K	12-NOV-2007 10:33	S7383
L5	111207ar	87455659006	CS100K	12-NOV-2007 10:36	S7674

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	28.812	25.348	24.861	25.100		LOR0	0.00000	0.03984		26.030	1.000	0.995	
Arsenic	A	13.111	15.523	15.261	14.321		LOR0	0.00000	0.06978		14.554	1.000	0.995	
Barium	A	410.17	414.35	406.56	398.94		LOR0	0.00000	0.00251		407.51	1.000	0.995	
Beryllium	A	3051.9	3091.9	3064.8			LOR0	0.00000	3.26E-4		3069.5	1.000	0.995	
Boron	A	144.46		156.63	159.88		LOR0	0.00000	0.00626		153.66	1.000	0.995	
Cadmium	A	171.99	177.82	179.64	170.63		LOR0	0.00000	0.00586		175.02	1.000	0.995	
Chromium	A	64.792	66.768	66.476	64.709		LOR0	0.00000	0.01545		65.686	1.000	0.995	
Cobalt	A	101.73	106.06	109.76	106.38		LOR0	0.00000	0.00940		105.98	1.000	0.995	
Copper	A	361.43	421.30	438.79	441.12		LOR0	0.00000	0.00227		415.66	1.000	0.995	
Lead	A	25.224	37.742	37.455	37.215		LOR0	0.00000	0.02687		34.409	1.000	0.995	
Manganese	A	1279.4	1334.3	1303.2	1252.4		LOR0	0.00000	7.98E-4		1292.3	1.000	0.995	
Molybdenum	A	27.766	30.406	30.094	29.308		LOR0	0.00000	0.03411		29.394	1.000	0.995	
Nickel	A	34.963	35.579	36.993	35.810		LOR0	0.00000	0.02792		35.836	1.000	0.995	
Selenium	A	23.338	22.066	21.403	21.677		LOR0	0.00000	0.04614		22.121	1.000	0.995	
Silver	A	466.39	483.65	486.12	485.54		LOR0	0.00000	0.00206		480.42	1.000	0.995	
Thallium	A	9.0632	11.765	11.868	11.521		LOR0	0.00000	0.08677		11.054	1.000	0.995	
Tin	A	15.642	16.378	17.516	17.289		LOR0	0.00000	0.05783		16.706	1.000	0.995	
Titanium	A	1254.8	1304.0	1292.7	1259.6		LOR0	0.00000	7.94E-4		1277.8	1.000	0.995	
Vanadium	A	111.68	116.35	115.86	115.43		LOR0	0.00000	0.00866		114.83	1.000	0.995	
Zinc	A	91.752	61.905	59.345	57.791		LOR0	0.00000	0.01730		67.698	1.000	0.995	
Aluminum	R	1.7553		1.9091	1.6862	1.7380	LOR0	0.00000	0.57553		1.7722	1.000	0.995	
Calcium	R	17.339		18.920	15.431	16.017	LOR0	0.00000	0.06246		16.927	1.000	0.995	
Iron	R	13.661		14.558	12.456	12.977	LOR0	0.00000	0.07709		13.413	1.000	0.995	
Magnesium	R	2.0056		2.1597	1.8329	1.9563	LOR0	0.00000	0.51148		1.9886	1.000	0.995	
Potassium	R	3.5414		4.7703	4.1459	4.4357	LOR0	0.00000	0.22559		4.2233	1.000	0.995	
Sodium	R	12.167		13.674	11.652	11.953	LOR0	0.00000	0.08368		12.362	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	15	100.0	1	1000	-1	10000	0		
Arsenic	A	5.000	-9	100.0	8	1000	6	10000	0		
Barium	A	5.000	3	100.0	4	1000	2	10000	0		
Beryllium	A	2.000	0	100.0	1	1000	0				
Boron	A	100.0	-10			1000	-2	10000	0		
Cadmium	A	5.000	1	100.0	4	1000	5	10000	0		
Chromium	A	5.000	0	100.0	3	1000	3	10000	0		
Cobalt	A	5.000	-4	100.0	0	1000	3	10000	0		
Copper	A	5.000	-18	100.0	-4	1000	-1	10000	0		
Lead	A	3.000	-32	100.0	1	1000	1	10000	0		
Manganese	A	5.000	2	100.0	6	1000	4	10000	0		
Molybdenum	A	5.000	-5	100.0	4	1000	3	10000	0		
Nickel	A	5.000	-2	100.0	-1	1000	3	10000	0		
Selenium	A	5.000	8	100.0	2	1000	-1	10000	0		
Silver	A	5.000	-4	100.0	0	1000	0	2000	0		
Thallium	A	5.000	-21	100.0	2	1000	3	10000	0		
Tin	A	40.00	-10	100.0	-5	1000	1	10000	0		
Titanium	A	10.00	0	100.0	3	1000	3	10000	0		
Vanadium	A	5.000	-3	100.0	1	1000	0	10000	0		
Zinc	A	20.00	59	100.0	7	1000	3	10000	0		
Aluminum	R	100.0	1			1000	10	10000	-3	100000	0
Calcium	R	200.0	8			1000	18	10000	-4	100000	0
Iron	R	100.0	5			1000	12	10000	-4	100000	0
Magnesium	R	200.0	3			1000	10	10000	-6	100000	0
Potassium	R	500.0	-20			1000	8	10000	-6	100000	0
Sodium	R	500.0	2			1000	14	10000	-2	100000	0

0021

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87455659 Instrument: MET08 PE ICP Begun: 12-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	111207ar	ICALBLK				12-NOV-2007 10:19	1.0	1.0				
002	111207ar	ICAL	CRIM08			12-NOV-2007 10:23	1.0	1.0			1	
003	111207ar	ICAL	CS100			12-NOV-2007 10:27	1.0	1.0			2	
004	111207ar	ICAL	CS1K			12-NOV-2007 10:30	1.0	1.0			3	
005	111207ar	ICAL	CS10K			12-NOV-2007 10:33	1.0	1.0			4	
006	111207ar	ICAL	CS100K			12-NOV-2007 10:36	1.0	1.0			5	
007	111207ar	ICV				12-NOV-2007 10:43	1.0	1.0		5000	6	
008	111207ar	ICB				12-NOV-2007 11:02	1.0	1.0		5000		
009	111207ar	ICSA				12-NOV-2007 11:05	1.0	1.0		5000	7	10:AL=496827
010	111207ar	ICSAB				12-NOV-2007 11:13	1.0	1.0		5000	8	5:AL=525551
011	111207ar	BLANK	QC414887	131602	Wipe	12-NOV-2007 12:15	1.0	50.0	1	5000		
012	111207ar	BS	QC414888	131602	Wipe	12-NOV-2007 12:18	1.0	50.0		5000		
013	111207ar	BSD	QC414889	131602	Wipe	12-NOV-2007 12:21	1.0	50.0		5000		
014	111207ar	SAMPLE	198839-001	131602	Wipe	12-NOV-2007 12:24	1.0	50.0		5000		
015	111207ar	SAMPLE	198839-002	131602	Wipe	12-NOV-2007 12:28	1.0	50.0		5000		
016	111207ar	SAMPLE	198839-005	131602	Wipe	12-NOV-2007 12:32	1.0	50.0		5000		
017	111207ar	SAMPLE	198839-006	131602	Wipe	12-NOV-2007 12:36	1.0	50.0		5000		
018	111207ar	SAMPLE	198839-007	131602	Wipe	12-NOV-2007 12:40	1.0	50.0	1	5000		
019	111207ar	X	RINSE			12-NOV-2007 12:44	1.0					
020	111207ar	X				12-NOV-2007 12:48	1.0				9	
021	111207ar	CCV				12-NOV-2007 12:49	1.0	1.0		5000	9	
022	111207ar	X	FLUSH			12-NOV-2007 12:52	1.0					
023	111207ar	CCB				12-NOV-2007 12:56	1.0	1.0		5000		
024	111207ar	SAMPLE	198839-008	131602	Wipe	12-NOV-2007 12:59	1.0	50.0		5000		
025	111207ar	BLANK	QC414816	131579	WET Le	12-NOV-2007 13:03	10.0	5.0	1	5000		1:NA=170675
026	111207ar	BS	QC414817	131579	WET Le	12-NOV-2007 13:07	1.0	1.0		5000		
027	111207ar	BSD	QC414818	131579	WET Le	12-NOV-2007 13:11	1.0	1.0		5000		
028	111207ar	MSS	198511-004	131579	WET Le	12-NOV-2007 13:14	10.0	5.0	1	5000		1:NA=162304
029	111207ar	MS	QC414819	131579	WET Le	12-NOV-2007 13:17	10.0	5.0		5000		1:NA=168223
030	111207ar	MSD	QC414820	131579	WET Le	12-NOV-2007 13:20	10.0	5.0	1	5000		1:NA=171451
031	111207ar	SAMPLE	198511-005	131579	WET Le	12-NOV-2007 13:23	10.0	5.0		5000		1:NA=175301

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 11/12/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87455659 Instrument: MET08 PE ICP Begun: 12-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	111207ar	ICALBLK				12-NOV-2007 10:19	1.0	1.0				
002	111207ar	ICAL	CRIM08			12-NOV-2007 10:23	1.0	1.0			1	
003	111207ar	ICAL	CS100			12-NOV-2007 10:27	1.0	1.0			2	
004	111207ar	ICAL	CS1K			12-NOV-2007 10:30	1.0	1.0			3	
005	111207ar	ICAL	CS10K			12-NOV-2007 10:33	1.0	1.0			4	
006	111207ar	ICAL	CS100K			12-NOV-2007 10:36	1.0	1.0			5	
007	111207ar	ICV				12-NOV-2007 10:43	1.0	1.0		5000	6	
008	111207ar	ICB				12-NOV-2007 11:02	1.0	1.0		5000		
009	111207ar	ICSA				12-NOV-2007 11:05	1.0	1.0		5000	7	10:AL=496827
010	111207ar	ICSAB				12-NOV-2007 11:13	1.0	1.0		5000	8	5:AL=525551
011	111207ar	BLANK	QC414887	131602	Wipe	12-NOV-2007 12:15	1.0	50.0	1	5000		
012	111207ar	BS	QC414888	131602	Wipe	12-NOV-2007 12:18	1.0	50.0		5000		
013	111207ar	BSD	QC414889	131602	Wipe	12-NOV-2007 12:21	1.0	50.0		5000		
014	111207ar	SAMPLE	198839-001	131602	Wipe	12-NOV-2007 12:24	1.0	50.0		5000		
015	111207ar	SAMPLE	198839-002	131602	Wipe	12-NOV-2007 12:28	1.0	50.0		5000		
016	111207ar	SAMPLE	198839-005	131602	Wipe	12-NOV-2007 12:32	1.0	50.0		5000		
017	111207ar	SAMPLE	198839-006	131602	Wipe	12-NOV-2007 12:36	1.0	50.0		5000		
018	111207ar	SAMPLE	198839-007	131602	Wipe	12-NOV-2007 12:40	1.0	50.0	1	5000		
019	111207ar	X	RINSE			12-NOV-2007 12:44	1.0					
020	111207ar	X				12-NOV-2007 12:48	1.0				9	
021	111207ar	CCV				12-NOV-2007 12:49	1.0	1.0		5000	9	
022	111207ar	X	FLUSH			12-NOV-2007 12:52	1.0					
023	111207ar	CCB				12-NOV-2007 12:56	1.0	1.0		5000		
024	111207ar	SAMPLE	198839-008	131602	Wipe	12-NOV-2007 12:59	1.0	50.0		5000		
025	111207ar	BLANK	QC414816	131579	WET Le	12-NOV-2007 13:03	10.0	5.0	1	5000		1:NA=170675
026	111207ar	BS	QC414817	131579	WET Le	12-NOV-2007 13:07	1.0	1.0		5000		
027	111207ar	BSD	QC414818	131579	WET Le	12-NOV-2007 13:11	1.0	1.0		5000		
028	111207ar	MSS	198511-004	131579	WET Le	12-NOV-2007 13:14	10.0	5.0	1	5000		1:NA=162304
029	111207ar	MS	QC414819	131579	WET Le	12-NOV-2007 13:17	10.0	5.0		5000		1:NA=168223
030	111207ar	MSD	QC414820	131579	WET Le	12-NOV-2007 13:20	10.0	5.0	1	5000		1:NA=171451
031	111207ar	SAMPLE	198511-005	131579	WET Le	12-NOV-2007 13:23	10.0	5.0		5000		1:NA=175301

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 11/12/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87455659 Instrument: MET08 PE ICP Begun: 12-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	111207ar	SAMPLE	198511-006	131579	WET Le	12-NOV-2007 13:26	10.0	5.0			5000		1:NA=173277
033	111207ar	SAMPLE	199038-001	131579	WET Le	12-NOV-2007 13:29	10.0	5.0			5000		1:NA=178970
034	111207ar	X	RINSE			12-NOV-2007 13:33	1.0						
035	111207ar	CCV				12-NOV-2007 13:37	1.0	1.0			5000	9	
036	111207ar	X	FLUSH			12-NOV-2007 13:41	1.0						
037	111207ar	CCB				12-NOV-2007 13:45	1.0	1.0			5000		
038	111207ar	SAMPLE	199038-002	131579	WET Le	12-NOV-2007 13:49	10.0	5.0			5000		1:NA=163268
039	111207ar	SAMPLE	199049-001	131579	WET Le	12-NOV-2007 13:53	10.0	5.0			5000		1:NA=169230
040	111207ar	X				12-NOV-2007 13:56	1.0	1.0	1		5000	8	5:AL=693646
041	111207ar	ICSAB				12-NOV-2007 13:57	1.0	1.0			5000	8	5:AL=571148
042	111207ar	X	RINSE			12-NOV-2007 14:00	1.0						
043	111207ar	CCV				12-NOV-2007 14:04	1.0	1.0			5000	9	
044	111207ar	X	FLUSH			12-NOV-2007 14:07	1.0						
045	111207ar	CCB				12-NOV-2007 14:10	1.0	1.0			5000		
046	111207ar	BLANK	QC414760	131565	Soil	12-NOV-2007 14:49	1.0	50.0			5000		
047	111207ar	BS	QC414761	131565	Soil	12-NOV-2007 14:53	1.0	50.0	1		5000		
048	111207ar	BSD	QC414762	131565	Soil	12-NOV-2007 14:56	1.0	50.0	1		5000		
049	111207ar	MSS	199091-001	131565	Soil	12-NOV-2007 14:59	1.0	47.17	4		5000		3:FE=547967
050	111207ar	MS	QC414763	131565	Soil	12-NOV-2007 15:01	1.0	44.64	1	2	5000		2:FE=468685
051	111207ar	MSD	QC414764	131565	Soil	12-NOV-2007 15:03	1.0	48.08	1	5	5000		4:FE=493734
052	111207ar	SAMPLE	198839-007	131602	Wipe	12-NOV-2007 15:06	1.0	50.0			5000		
053	111207ar	ICSAB				12-NOV-2007 15:10	1.0	1.0			5000	8	5:AL=564944
054	111207ar	SER	QC414765	131565	Soil	12-NOV-2007 15:13	5.0	47.17		5	5000		1:FE=125294
055	111207ar	PDS	QC414766	131565	Soil	12-NOV-2007 15:16	1.0	47.17			5000	10 11	4:FE=542005
056	111207ar	X	RINSE			12-NOV-2007 15:18	1.0						
057	111207ar	X				12-NOV-2007 15:22	1.0	1.0	6		5000	9	
058	111207ar	X				12-NOV-2007 15:23	1.0	1.0	7		5000	9	
059	111207ar	X	FLUSH			12-NOV-2007 15:26	1.0						
060	111207ar	CCV				12-NOV-2007 15:29	1.0	1.0	1		5000	9	
061	111207ar	X				12-NOV-2007 15:32	1.0					9	
062	111207ar	X	FLUSH			12-NOV-2007 15:35	1.0						

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 11/12/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87455659 Instrument: MET08 PE ICP Begun: 12-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	111207ar	CCB				12-NOV-2007 15:39	1.0	1.0		5000		
064	111207ar	MSS	199091-001	131565	Soil	12-NOV-2007 15:43	10.0	47.17	1	5000		
065	111207ar	SER	QC414765	131565	Soil	12-NOV-2007 15:46	50.0	47.17		5000		
066	111207ar	PDS	QC414766	131565	Soil	12-NOV-2007 15:49	10.0	47.17		5000	10 11	
067	111207ar	SAMPLE	199091-002	131565	Soil	12-NOV-2007 15:52	1.0	48.54	6	5000		4:FE=575675
068	111207ar	SAMPLE	199091-003	131565	Soil	12-NOV-2007 15:55	1.0	44.64	5	5000		3:FE=422485
069	111207ar	SAMPLE	199091-004	131565	Soil	12-NOV-2007 15:57	1.0	49.02	5	5000		4:FE=376686
070	111207ar	SAMPLE	199091-005	131565	Soil	12-NOV-2007 16:00	1.0	47.17	6	5000		4:FE=380045
071	111207ar	SAMPLE	199091-006	131565	Soil	12-NOV-2007 16:02	1.0	44.64	4	5000		3:FE=289494
072	111207ar	SAMPLE	199091-007	131565	Soil	12-NOV-2007 16:05	1.0	45.05	3	5000		2:FE=409560
073	111207ar	SAMPLE	199091-008	131565	Soil	12-NOV-2007 16:07	1.0	45.45	5	5000		3:FE=641905
074	111207ar	X	RINSE			12-NOV-2007 16:09	1.0					
075	111207ar	X				12-NOV-2007 16:13	1.0	1.0	1	5000	9	
076	111207ar	CCV				12-NOV-2007 16:14	1.0	1.0		5000	9	
077	111207ar	X	FLUSH			12-NOV-2007 16:17	1.0					
078	111207ar	CCB				12-NOV-2007 16:21	1.0	1.0		5000		
079	111207ar	SAMPLE	199091-009	131565	Soil	12-NOV-2007 16:25	1.0	50.0	4	5000		4:FE=462522
080	111207ar	SAMPLE	199091-010	131565	Soil	12-NOV-2007 16:27	1.0	45.87	2	5000		2:FE=514623
081	111207ar	SAMPLE	199091-011	131565	Soil	12-NOV-2007 16:29	1.0	48.08	3	5000		2:FE=362972
082	111207ar	SAMPLE	199075-001	131565	Soil	12-NOV-2007 16:31	1.0	45.45		5000		4:FE=259330
083	111207ar	SAMPLE	199075-002	131565	Soil	12-NOV-2007 16:33	1.0	47.17		5000		4:FE=363809
084	111207ar	SAMPLE	199079-005	131565	Soil	12-NOV-2007 16:35	1.0	44.64		5000		3:CA=242120
085	111207ar	BS	QC414761	131565	Soil	12-NOV-2007 16:38	1.0	50.0		5000		
086	111207ar	BSD	QC414762	131565	Soil	12-NOV-2007 16:41	1.0	50.0		5000		
087	111207ar	MS	QC414763	131565	Soil	12-NOV-2007 16:44	1.0	44.64	2	5000		3:FE=529481
088	111207ar	MSD	QC414764	131565	Soil	12-NOV-2007 16:47	1.0	48.08	6	5000		4:FE=502569
089	111207ar	ICSAB				12-NOV-2007 16:50	1.0	1.0		5000	8	5:AL=547440
090	111207ar	X	RINSE			12-NOV-2007 16:54	1.0					
091	111207ar	CCV				12-NOV-2007 16:57	1.0	1.0		5000	9	
092	111207ar	X	FLUSH			12-NOV-2007 17:00	1.0					
093	111207ar	CCB				12-NOV-2007 17:04	1.0	1.0		5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 11/12/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87455659 Instrument: MET08 PE ICP Begun: 12-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	111207ar	MSS	199091-001	131565	Soil	12-NOV-2007 17:08	1.0	47.17	4		5000		3:FE=525568
095	111207ar	SER	QC414765	131565	Soil	12-NOV-2007 17:11	5.0	47.17		6	5000		1:FE=130447
096	111207ar	PDS	QC414766	131565	Soil	12-NOV-2007 17:13	1.0	47.17			5000	10 11	4:FE=562979
097	111207ar	SAMPLE	199091-002	131565	Soil	12-NOV-2007 17:17	1.0	48.54	3		5000		3:FE=554439
098	111207ar	SAMPLE	199091-003	131565	Soil	12-NOV-2007 17:20	1.0	44.64	3		5000		3:FE=379592
099	111207ar	SAMPLE	199091-004	131565	Soil	12-NOV-2007 17:22	1.0	49.02	4		5000		4:FE=454301
100	111207ar	SAMPLE	199091-005	131565	Soil	12-NOV-2007 17:24	1.0	47.17	4		5000		4:FE=392340
101	111207ar	SAMPLE	199091-006	131565	Soil	12-NOV-2007 17:27	1.0	44.64	4		5000		3:FE=245137
102	111207ar	X	RINSE			12-NOV-2007 17:30	1.0						
103	111207ar	CCV				12-NOV-2007 17:33	1.0	1.0			5000	9	
104	111207ar	X	FLUSH			12-NOV-2007 17:37	1.0						
105	111207ar	CCB				12-NOV-2007 17:40	1.0	1.0			5000		
106	111207ar	SAMPLE	199091-007	131565	Soil	12-NOV-2007 17:44	1.0	45.05	2		5000		2:FE=384487
107	111207ar	SAMPLE	199091-008	131565	Soil	12-NOV-2007 17:46	1.0	45.45	3		5000		3:FE=627499
108	111207ar	SAMPLE	199091-009	131565	Soil	12-NOV-2007 17:49	1.0	50.0	4		5000		4:FE=458504
109	111207ar	SAMPLE	199091-010	131565	Soil	12-NOV-2007 17:51	1.0	45.87	2		5000		2:FE=509966
110	111207ar	SAMPLE	199091-011	131565	Soil	12-NOV-2007 17:53	1.0	48.08	2		5000		2:FE=319449
111	111207ar	X	199075-001	131565	Soil	12-NOV-2007 17:55	1.0	45.45	1		5000		4:FE=263857
112	111207ar	X				12-NOV-2007 17:57	1.0					8	
113	111207ar	ICSAB				12-NOV-2007 17:59	1.0	1.0			5000	8	5:AL=572441
114	111207ar	X	RINSE			12-NOV-2007 18:02	1.0						
115	111207ar	CCV				12-NOV-2007 18:05	1.0	1.0			5000	9	
116	111207ar	X	FLUSH			12-NOV-2007 18:10	1.0						
117	111207ar	CCB				12-NOV-2007 18:13	1.0	1.0			5000		
118	111207ar	SAMPLE	199091-002	131565	Soil	12-NOV-2007 18:19	10.0	48.54			5000		1:TI=14456.0
119	111207ar	SAMPLE	199091-003	131565	Soil	12-NOV-2007 18:22	10.0	44.64			5000		
120	111207ar	SAMPLE	199091-004	131565	Soil	12-NOV-2007 18:25	10.0	49.02			5000		
121	111207ar	SAMPLE	199091-005	131565	Soil	12-NOV-2007 18:28	10.0	47.17			5000		
122	111207ar	SAMPLE	199091-006	131565	Soil	12-NOV-2007 18:31	10.0	44.64			5000		
123	111207ar	SAMPLE	199091-007	131565	Soil	12-NOV-2007 18:34	10.0	45.05			5000		
124	111207ar	SAMPLE	199091-008	131565	Soil	12-NOV-2007 18:37	10.0	45.45			5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: _____ Date: 11/12/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87455659 Instrument: MET08 PE ICP Begun: 12-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
125	111207ar	SAMPLE	199091-009	131565	Soil	12-NOV-2007 18:40	10.0	50.0			5000		
126	111207ar	SAMPLE	199091-010	131565	Soil	12-NOV-2007 18:43	10.0	45.87			5000		
127	111207ar	SAMPLE	199091-011	131565	Soil	12-NOV-2007 18:46	10.0	48.08			5000		
128	111207ar	ICSAB				12-NOV-2007 18:49	1.0	1.0			5000	8	5:AL=520261
129	111207ar	X	RINSE			12-NOV-2007 18:52	1.0						
130	111207ar	CCV				12-NOV-2007 18:56	1.0	1.0			5000	9	
131	111207ar	X	FLUSH			12-NOV-2007 18:59	1.0						
132	111207ar	CCB				12-NOV-2007 19:03	1.0	1.0			5000		
133	111207ar	BLANK	QC414614	131530	Water	12-NOV-2007 19:07	1.0	1.0	1		5000		
134	111207ar	BS	QC414615	131530	Water	12-NOV-2007 19:10	1.0	1.0			5000		
135	111207ar	BSD	QC414616	131530	Water	12-NOV-2007 19:13	1.0	1.0			5000		
136	111207ar	MSS	198904-001	131530	Water	12-NOV-2007 19:17	1.0	1.0			5000		
137	111207ar	MS	QC414617	131530	Water	12-NOV-2007 19:21	1.0	1.0			5000		
138	111207ar	MSD	QC414618	131530	Water	12-NOV-2007 19:23	1.0	1.0	1		5000		1:NA=101768
139	111207ar	SER	QC414619	131530	Water	12-NOV-2007 19:27	5.0	1.0		1	5000		
140	111207ar	PDS	QC414620	131530	Water	12-NOV-2007 19:31	1.0	1.0		1	5000	12 13	
141	111207ar	X	RINSE			12-NOV-2007 19:34	1.0						
142	111207ar	CCV				12-NOV-2007 19:37	1.0	1.0			5000	9	
143	111207ar	X	FLUSH			12-NOV-2007 19:41	1.0						
144	111207ar	CCB				12-NOV-2007 19:45	1.0	1.0			5000		
145	111207ar	SAMPLE	198904-002	131530	Water	12-NOV-2007 19:49	1.0	1.0			5000		
146	111207ar	SAMPLE	198904-003	131530	Water	12-NOV-2007 19:53	1.0	1.0	1		5000		1:NA=165700
147	111207ar	SAMPLE	198904-004	131530	Water	12-NOV-2007 19:56	1.0	1.0	1		5000		1:NA=116344
148	111207ar	SAMPLE	198904-005	131530	Water	12-NOV-2007 20:01	1.0	1.0			5000		
149	111207ar	X	RINSE			12-NOV-2007 20:05	1.0						
150	111207ar	BLANK	QC414614	131530	Water	12-NOV-2007 20:08	1.0	1.0			5000		
151	111207ar	MS	QC414617	131530	Water	12-NOV-2007 20:12	5.0	1.0			5000		
152	111207ar	MSD	QC414618	131530	Water	12-NOV-2007 20:15	5.0	1.0			5000		
153	111207ar	SAMPLE	198880-004	131530	Water	12-NOV-2007 20:18	1.0	1.0			5000		
154	111207ar	SAMPLE	198999-005	131530	Filtra	12-NOV-2007 20:21	1.0	1.0	6		5000		
155	111207ar	X	RINSE			12-NOV-2007 20:24	1.0						

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: JF Date: 11/12/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87455659 Instrument: MET08 PE ICP Begun: 12-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
156	111207ar	CCV				12-NOV-2007 20:28	1.0	1.0	5000	9	
157	111207ar	X	FLUSH			12-NOV-2007 20:31	1.0				
158	111207ar	CCB				12-NOV-2007 20:35	1.0	1.0	5000		
159	111207ar	SAMPLE	198999-006	131530	Filtra	12-NOV-2007 20:39	1.0	1.0	5000		
160	111207ar	SAMPLE	199007-002	131530	Water	12-NOV-2007 20:42	1.0	1.0	5000		
161	111207ar	SAMPLE	199027-001	131530	Water	12-NOV-2007 20:47	1.0	1.0	5000		
162	111207ar	SAMPLE	199029-001	131530	Water	12-NOV-2007 20:51	1.0	1.0	5000		
163	111207ar	SAMPLE	199033-009	131530	Water	12-NOV-2007 20:55	1.0	1.0	5000		3:K=486446
164	111207ar	SAMPLE	199076-001	131530	Filtra	12-NOV-2007 20:59	1.0	1.0	5000		3:NA=253671
165	111207ar	SAMPLE	199076-003	131530	Filtra	12-NOV-2007 21:02	1.0	1.0	5000		
166	111207ar	SAMPLE	198925-003	131530	Filtra	12-NOV-2007 21:05	1.0	1.0	5000		
167	111207ar	SAMPLE	198904-003	131530	Water	12-NOV-2007 21:08	5.0	1.0	5000		
168	111207ar	SAMPLE	198904-004	131530	Water	12-NOV-2007 21:11	5.0	1.0	5000		
169	111207ar	X	RINSE			12-NOV-2007 21:15	1.0				
170	111207ar	CCV				12-NOV-2007 21:19	1.0	1.0	5000	9	
171	111207ar	X	FLUSH			12-NOV-2007 21:22	1.0				
172	111207ar	CCB				12-NOV-2007 21:26	1.0	1.0	5000		
173	111207ar	SAMPLE	198999-005	131530	Filtra	12-NOV-2007 21:30	1.0	1.0	5000		
174	111207ar	ICSAB				12-NOV-2007 21:33	1.0	1.0	5000	8	5:AL=545284
175	111207ar	X	RINSE			12-NOV-2007 21:36	1.0				
176	111207ar	CCV				12-NOV-2007 21:40	1.0	1.0	5000	9	
177	111207ar	X	FLUSH			12-NOV-2007 21:43	1.0				
178	111207ar	CCB				12-NOV-2007 21:46	1.0	1.0	5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919 12=S6920 13=S6921

Analyst: JJ Date: 11/12/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198880 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
198880-004	MET14	11/05/07 16:40	1.0										+							
198880-004	MET08	11/07/07 17:27	1.0																	
198880-004	MET08	11/07/07 17:55	1.0																	
198880-004	MET08	11/07/07 18:40	1.0																	
198880-004	MET08	11/12/07 20:18	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198880-004	MET09	11/13/07 09:17	1.0																	
198880-004	MET09	11/13/07 09:24	1.0																	
QC413686	MET14	11/05/07 15:15	1.0										+							
QC413687	MET14	11/05/07 15:18	1.0										+							
QC413688	MET14	11/05/07 15:20	1.0										+							
QC413689	MET14	11/05/07 15:24	5.0										+							
QC413690	MET14	11/05/07 15:27	1.0										+							
QC413691	MET14	11/05/07 15:29	1.0										+							
QC413692	MET14	11/05/07 15:33	5.0										+							
QC413693	MET14	11/05/07 15:35	1.0										+							
QC413694	MET14	11/05/07 15:42	1.0										+							
QC413695	MET14	11/05/07 15:47	5.0										+							
QC413696	MET14	11/05/07 15:49	1.0										+							
QC413697	MET14	11/05/07 15:51	1.0										+							
QC413698	MET14	11/05/07 15:55	5.0										+							
QC413699	MET14	11/05/07 15:58	1.0										+							
QC413700	MET14	11/05/07 16:01	1.0										+							
QC413701	MET14	11/05/07 16:10	5.0										+							
QC413702	MET14	11/05/07 16:12	1.0										+							
QC413703	MET14	11/05/07 16:14	1.0										+							
QC413704	MET14	11/05/07 16:17	1.0										+							
QC413705	MET14	11/05/07 16:19	1.0										+							

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198880 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
QC414109	MET08	11/07/07 14:32	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414110	MET08	11/07/07 14:36	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414111	MET08	11/07/07 14:39	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414112	MET08	11/07/07 14:46	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414112	MET09	11/07/07 17:31	100.0																	
QC414113	MET08	11/07/07 14:50	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414113	MET09	11/07/07 17:34	100.0																	
QC414114	MET08	11/07/07 17:59	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414115	MET08	11/07/07 18:03	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414614	MET08	11/12/07 19:07	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414614	MET08	11/12/07 20:08	1.0																	
QC414615	MET08	11/12/07 19:10	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414616	MET08	11/12/07 19:13	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414617	MET08	11/12/07 19:21	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414617	MET08	11/12/07 20:12	5.0																	
QC414618	MET08	11/12/07 19:23	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414618	MET08	11/12/07 20:15	5.0																	
QC414619	MET08	11/12/07 19:27	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414620	MET08	11/12/07 19:31	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 12-NOV-2007 18:59

Batch Number : 131530
Date Extracted: 09-NOV-2007
Extracted by : Kevin Gaines
Prep Method : 3010A

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S6920
Spike #2 ID : S6921
Spike #3 ID :
SOP Version : 3010A_ICP_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198880-004			Mactec, Inc.	Water	50	mL	50	1.000000	1					ICAP		
198904-001			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-002			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-003			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-004			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-005			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198925-003			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
198999-005			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
198999-006			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
199007-002			Morton Salt	Water	50	mL	50	1.000000	1					CU, NI, PB, SE, ZN		
199027-001			SAIC	Water	50	mL	50	1.000000	1					CD, CR, CU, (more)		
199029-001			SAIC	Water	50	mL	50	1.000000	1					CD, CR, CU, (more)		
199033-009			Acme Fill Corp.	Water	50	mL	50	1.000000	1					CU, NI, PB, ZN		
199076-001			TRC Environmental Solutions, I	Water	50	mL	50	1.000000	1					ICAP		
199076-003			TRC Environmental Solutions, I	Water	50	mL	50	1.000000	1					ICAP		
QC414614	BLANK			Water	50	mL	50	1.000000	1					ICAP		
QC414615	BS			Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414616	BSD			Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414617	MS	of 198904-001		Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414618	MSD	of 198904-001		Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414619	SER	of 198904-001		Water	50	mL	50	1.000000	1					ICAP		
QC414620	PDS	of 198904-001		Water	50	mL	50	1.000000	1					ICAP		

00323

Prep Chemist: JF for KG 11/12/07 Reviewed By: JF Date: 11/12/07

Relinquished By: JF for KG 11/12/07 Received By: JF Date: 11/12/07

Water Digestion for ICP Curtis & Tompkins, Ltd.

LIMS Batch #: 131530
Digested by: [illegible]
Date Digested: 11/9/07
Time Begun: 9:15 AM

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK 2599
Page 4
Continued From: /
Continued On: /

	Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLK	50	50	N	
	BS				
	BSD				
	MS -01H				
5	MSD-01				
	098904-01				
	-02				
	-03				
	-04				
10	-05				
	880-04E				
	999-05D				FIELD FILTERED
	-06				
	007-02A				
15	027-01D				
	029-01D				
	033-09B				
	076-01G				
	03				
20	925031D				LAB FILTER

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	KLA 11/9
.5 mL of spike solution was added to all spikes	569720	
	569721	
☐ 1:1 HNO3, ☐ concentrated HNO3, added to all samples	A24035	
1:1 HCl added to all samples	E11055 080607	
☐ filtered thru' Whatman # 541		
Relinquished to ICP group		

KLA 11/9/07
Prep Chemist Signature / Date

11/9/07
Reviewer Signature / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

st : MET14
lnum : 847445847001
its : ug/L

Date : 05-NOV-2007 14:47
X Axis : R

Reviewer : ---
Type : WATER

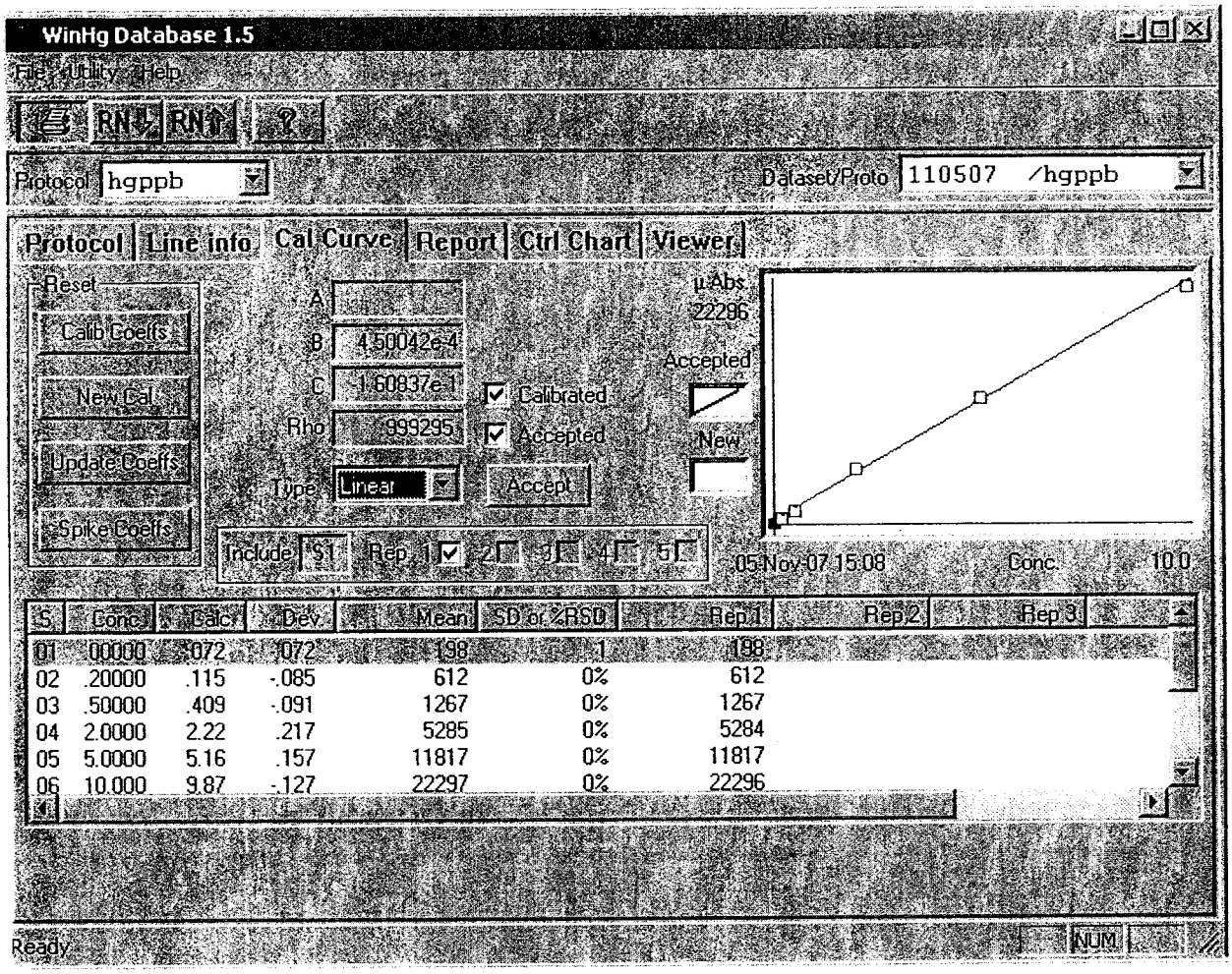
vel	File	Seqnum	Sample ID	Analyzed	Stds
1	131311	847445847002	STD03REP1	05-NOV-2007 14:51	S7606 (200X)
2	131311	847445847003	STD04REP1	05-NOV-2007 14:54	S7606 (50X)
3	131311	847445847004	STD05REP1	05-NOV-2007 14:56	S7606 (20X)
4	131311	847445847005	STD06REP1	05-NOV-2007 14:58	S7606 (10X)
5	131311	847445847006	STD02REP1	05-NOV-2007 15:05	S7606 (500X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	2534.0	2642.0	2363.4	2229.6	3060.0	LINR	-0.1608	4.50E-4		2565.8	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.500	-18	2.000	11	5.000	3	10.00	-1	0.200	-43

stirment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

847445847001


WinHg Database 1.5
File Utility Help
RN RN
Protocol hgppb
Dataset/Proto 110507 /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 4.50042e-4
C 1.60837e-1
Rho 999295
Calibrated
Accepted
Type Linear
Accept
µ Abs
22296
Accepted
New
05-Nov-07 15:08
Conc 10.0
Include S1 Rep 1 2 3 4 5
S Conc Calc Dev Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 00000 .072 .072 198 1 198
02 .20000 .115 -.085 612 0% 612
03 .50000 .409 -.091 1267 0% 1267
04 2.0000 2.22 .217 5285 0% 5284
05 5.0000 5.16 .157 11817 0% 11817
06 10.000 9.87 -.127 22297 0% 22296
Ready
NUM

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		14:47:37 05 Nov 07			HG
Hg	.000	ppb	198						
		Bkgd 1	17638774						
*** Standard: 3 Rep: 1				Seq: 3		14:51:47 05 Nov 07			HG
Hg	.500	ppb	1267						
		Bkgd 1	17628385						
*** Standard: 4 Rep: 1				Seq: 4		14:54:02 05 Nov 07			HG
Hg	2.00	ppb	5284						
		Bkgd 1	17627467						
*** Standard: 5 Rep: 1				Seq: 5		14:56:32 05 Nov 07			HG
Hg	5.00	ppb	11817						
		Bkgd 1	17616453						
*** Standard: 6 Rep: 1				Seq: 6		14:58:51 05 Nov 07			HG
Hg	10.0	ppb	22296						
		Bkgd 1	17611163						
*** Standard: 2 Rep: 1				Seq: 8		15:05:48 05 Nov 07			HG
Hg	.200	ppb	612						
		Bkgd 1	17600417						
*** Check Standard: 2			Ck2S7608	Seq: 9		15:10:59 05 Nov 07			HG
Line	Flag		Intensities						
Hg			11987						
		Bkgd 1	17596651						
*** Check Standard: 1			Ck1ICB	Seq: 10		15:13:16 05 Nov 07			HG
Line	Flag		Intensities						
Hg			19						
		Bkgd 1	17592755						
*** Sample ID: qc413686				Seq: 11		15:15:51 05 Nov 07			HG
			131311,1						
Hg	-.139	ppb	48						
		Bkgd 1	17590714						

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 847445847 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 05-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131311	ICALBLK	STD01REP1				05-NOV-2007 14:47	1.0	1.0									
131311	ICAL	STD03REP1				05-NOV-2007 14:51	1.0	1.0									
131311	ICAL	STD04REP1				05-NOV-2007 14:54	1.0	1.0									
131311	ICAL	STD05REP1				05-NOV-2007 14:56	1.0	1.0									
131311	ICAL	STD06REP1				05-NOV-2007 14:58	1.0	1.0									
131311	ICAL	STD02REP1				05-NOV-2007 15:05	1.0	1.0									
131311	ICV					05-NOV-2007 15:10	1.0	1.0	2	5.000	847445847001	5.230		ug/L	105		
131311	ICB					05-NOV-2007 15:13	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	BLANK	QC413686		131311	Water	05-NOV-2007 15:15	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	BS	QC413687		131311	Water	05-NOV-2007 15:18	1.0	1.0		5.000	847445847001	4.880	0.20	ug/L	98		u
131311	BSD	QC413688		131311	Water	05-NOV-2007 15:20	1.0	1.0		5.000	847445847001	5.120	0.20	ug/L	102	5	u
131311	MSS	198814-002		131311	Filtra	05-NOV-2007 15:22	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SER	QC413689	198814-002	131311	Filtra	05-NOV-2007 15:24	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413690	198814-002	131311	Filtra	05-NOV-2007 15:27	1.0	1.0		5.000	847445847001	5.640	0.20	ug/L	113		u
131311	MSD	QC413691	198814-002	131311	Filtra	05-NOV-2007 15:29	1.0	1.0		5.000	847445847001	5.410	0.20	ug/L	108	4	u
131311	MSS	198836-001		131311	Water	05-NOV-2007 15:31	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SER	QC413692	198836-001	131311	Water	05-NOV-2007 15:33	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413693	198836-001	131311	Water	05-NOV-2007 15:35	1.0	1.0		5.000	847445847001	5.350	0.20	ug/L	107		u
131311	CCV					05-NOV-2007 15:37	1.0	1.0	3	2.500	847445847001	2.650		ug/L	106		
131311	CCB					05-NOV-2007 15:39	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	MSD	QC413694	198836-001	131311	Water	05-NOV-2007 15:42	1.0	1.0		5.000	847445847001	5.570	0.20	ug/L	111	4	u
131311	MSS	198854-001		131311	TCLP L	05-NOV-2007 15:44	1.0	1.0			847445847001	ND	2.0	ug/L			u
131311	SER	QC413695	198854-001	131311	TCLP L	05-NOV-2007 15:47	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413696	198854-001	131311	TCLP L	05-NOV-2007 15:49	1.0	1.0									
131311	MSD	QC413697	198854-001	131311	TCLP L	05-NOV-2007 15:51	1.0	1.0									
131311	MSS	198854-001		131311	WET Le	05-NOV-2007 15:53	1.0	5.0			847445847001	ND	2.0	ug/L			u
131311	SER	QC413698	198854-001	131311	WET Le	05-NOV-2007 15:55	5.0	5.0			847445847001	ND	5.0	ug/L		--	u
131311	MS	QC413699	198854-001	131311	WET Le	05-NOV-2007 15:58	1.0	5.0		25.00	847445847001	22.70	1.0	ug/L	91		u
131311	MSD	QC413700	198854-001	131311	WET Le	05-NOV-2007 16:01	1.0	5.0		25.00	847445847001	24.35	1.0	ug/L	97	7	u
131311	MSS	198925-003		131311	Filtra	05-NOV-2007 16:03	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	CCV					05-NOV-2007 16:06	1.0	1.0	4	7.500	847445847001	7.690		ug/L	103		
131311	CCB					05-NOV-2007 16:08	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	SER	QC413701	198925-003	131311	Filtra	05-NOV-2007 16:10	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413702	198925-003	131311	Filtra	05-NOV-2007 16:12	1.0	1.0		5.000	847445847001	5.110	0.20	ug/L	102		u
131311	MSD	QC413703	198925-003	131311	Filtra	05-NOV-2007 16:14	1.0	1.0		5.000	847445847001	5.090	0.20	ug/L	102	0	u
131311	PREPBLK	QC413704		131311	TCLP L	05-NOV-2007 16:17	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	PREPBLK	QC413705		131311	WET Le	05-NOV-2007 16:19	1.0	5.0			847445847001	ND	1.0	ug/L			u
131311	SAMPLE	198814-003		131311	Filtra	05-NOV-2007 16:21	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-002		131311	Water	05-NOV-2007 16:23	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-003		131311	Water	05-NOV-2007 16:25	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-004		131311	Water	05-NOV-2007 16:28	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-006		131311	Water	05-NOV-2007 16:30	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	CCV					05-NOV-2007 16:32	1.0	1.0	5	5.000	847445847001	5.130		ug/L	103		

ds used: 1=S7606 2=S7608 3=S7609 4=S7611 5=S7610
ags used: u=use

alyst: _____ Date: 11/15/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 847445847 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 05-NOV-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131311	CCB					05-NOV-2007 16:35	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	SAMPLE	198865-001		131311	Water	05-NOV-2007 16:37	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198880-004		131311	Water	05-NOV-2007 16:40	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198908-008		131311	Filtra	05-NOV-2007 16:42	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198908-012		131311	Filtra	05-NOV-2007 16:45	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198924-003		131311	Filtra	05-NOV-2007 16:47	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198926-001		131311	Water	05-NOV-2007 16:49	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198944-001		131311	Water	05-NOV-2007 16:52	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198946-001		131311	Water	05-NOV-2007 16:55	1.0	1.0			847445847001	2.3	0.20	ug/L			u
131311	SAMPLE	198956-002		131311	Water	05-NOV-2007 16:57	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	CCV					05-NOV-2007 16:59	1.0	1.0	4	7.500	847445847001	7.700		ug/L	103		
131311	CCB					05-NOV-2007 17:02	1.0	1.0			847445847001	ND	0.20	ug/L			

ds used: 1=S7606 2=S7608 3=S7609 4=S7611 5=S7610
ags used: u=use

nalyst: _____ Date: 11/5/07

Curtis & Tompkins Laboratories Sample Preparation Summary 05-NOV-2007 12:32

Batch Number : 131311
Date Extracted: 05-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S7606
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198814-002			Weston Solutions	Filtrate	50	mL	50	1.000000	1				TAL/HG		MSS
198814-003			Weston Solutions	Filtrate	50	mL	50	1.000000	1				TAL/HG		
198836-001			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		MSS
198836-002			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198836-003			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198836-004			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198836-006			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198854-001			ConocoPhillips Company	TCLP Leach	50	mL	50	1.000000	1				HG		MSS
198854-001			ConocoPhillips Company	WET Leacha	10	mL	50	5.000000	1				HG		MSS
198865-001			Kensington Laboratories	Water	50	mL	50	1.000000	1				HG		
198880-004			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/HG		
198908-008			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198908-012			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198924-003			TRC Environmental Solutions, I	Filtrate	50	mL	50	1.000000	1				T26/HG		
198925-003			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1				TAL/HG		MSS
198926-001			URS Corporation	Water	50	mL	50	1.000000	1				HG		
198944-001			Union Sanitary District	Water	50	mL	50	1.000000	1				HG		
198946-001			TRC Solutions	Water	50	mL	50	1.000000	1				HG		
198956-002			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/HG		
QC413686	BLANK			Water	50	mL	50	1.000000	1				HG		
QC413687	BS			Water	50	mL	50	1.000000	1	2.5			HG		
QC413688	BSD			Water	50	mL	50	1.000000	1	2.5			HG		
QC413689	SER	of 198814-002		Filtrate	50	mL	50	1.000000	1				HG		
QC413690	MS	of 198814-002		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413691	MSD	of 198814-002		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413692	SER	of 198836-001		Water	50	mL	50	1.000000	1				HG		
QC413693	MS	of 198836-001		Water	50	mL	50	1.000000	1	2.5			HG		
QC413694	MSD	of 198836-001		Water	50	mL	50	1.000000	1	2.5			HG		
QC413695	SER	of 198854-001		TCLP Leach	50	mL	50	1.000000	1				HG		
QC413696	MS	of 198854-001		TCLP Leach	50	mL	50	1.000000	1	2.5			HG		
QC413697	MSD	of 198854-001		TCLP Leach	50	mL	50	1.000000	1	2.5			HG		
QC413698	SER	of 198854-001		WET Leacha	10	mL	50	5.000000	1				HG		
QC413699	MS	of 198854-001		WET Leacha	10	mL	50	5.000000	1	2.5			HG		
QC413700	MSD	of 198854-001		WET Leacha	10	mL	50	5.000000	1	2.5			HG		
QC413701	SER	of 198925-003		Filtrate	50	mL	50	1.000000	1				HG		
QC413702	MS	of 198925-003		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413703	MSD	of 198925-003		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413704	PREPBLK			TCLP Leach	50	mL	50	1.000000	1				HG		
QC413705	PREPBLK			WET Leacha	10	mL	50	5.000000	1				HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/5/07

Relinquished By: _____ Received By: _____ Date: 11/5/07

0330

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 131311
Date Digested: 11/5/07
Digested by: SXM

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2597
Page 20

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
198814-002I	50.0	50.0	Y	MSS filtrate
↓ 03J	↓	↓	↓	↓
198836-001V				MSS H_2O
02H				↓
5 03				
04				
↓ 06 ↓				
198851-001	↓			MSS TCLP leachate
↓	10.0			MSS Wet Leachate
10 198865-001A	50.0			H_2O
198880-004E				↓
198908-008G				filtrate
↓ 12G				↓
198924-003G				↓ MSS
15 198925-003D				
198926-001I				H_2O
SXM 11/5/07 ~~198938-001~~ 198944-001A				↓
198946-001F				
198956-002D				↓
20 MB QC413686				
~~LCS~~ 87				
LCSD 88				
MS 90				of 198814-002
MSD 91				↓
MS ↓ 93	↓	↓	↓	of 198836-001

25 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	S7606	SXM 11/5/07
ICAL Source WS#	↓	↓
ICV / CCV WS#	ICV080411011	
Digestion of Samples & Standards: Time ON / Temperature ON	12:00 / 95°C	
Time OFF/ Temperature OFF	14:00 / 95°C	
concentrated H_2SO_4	STB 080306	
concentrated HNO_3	STB 080271	
5% $KMnO_4$	K 103107	
5% $K_2S_2O_8$	K_2 101807	
NaCl.hydroxylamine hydrochloride	H_4 101807	
Stannous Chloride	$SnCl_2$ 11/5/07	
☐ filtered thru' 0.45 um syringe filter	—	↓

11/5/07
Prep Chemist / Date

Continued from page _____
Continued on page 21

11/5/07
Reviewed by / Date

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 13131

Date Digested: 1115107

Digested by: JXM

Digestion Method

☒ EPA 7470A/ EPA 245.1

☐ _____

BK 2597

Page 21

Sample # and letter		Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
MSDQC	413694	50.0	50.0	N	of 198836-001
MS	696	↓	↓		of 198851-001 TCLP
MSD	697	↓	↓		↓ ↓
MS	699	10.0	↓		↓ Wet Leachate
MSD	700	↓	↓		↓ ↓
PrepBlk	704	50.0	↓		TCLP Leachate
PrepBlk	705	10.0	↓		Wet Leachate
MS	702	50.0	↓	↓	198925-003
MSD	703	↓	↓	↓	↓

JXM 1115107

25 mL of spike solution was added to all spikes

Digestion of Samples & Standards:	Reagent ID/ LIMS# / Time	Initials / Date
	57606	JXM 1115107
ICAL Source WS#	↓	
ICV / CCV WS#	57608109110111	
Time ON / Temperature ON	12:00 / 95°C	
Time OFF/ Temperature OFF	14:00 / 95°C	
concentrated H_2SO_4	JT3608036	
concentrated HNO_3	JT3422071	
5% $KMnO_4$	K 101307	
5% $K_2S_2O_8$	K_2 101807	
NaCl.hydroxylamine hydrochloride	H_4 101807	
Stannous Chloride	$SnCl_2$ 1115107	
☐ filtered thru' 0.45 um syringe filter	—	↓

1115107

Prep Chemist / Date

JXM 1115107

Continued from page 20

Continued on page 1

11/5/07

Reviewed By / Date

Curtis & Tompkins, Ltd.

Metals
(Soil)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198880	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX357[4.0]	Basis:	dry
Lab ID:	198880-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	10/31/07
Units:	mg/Kg	Received:	11/01/07

Moisture: 16%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.8	0.60	0.031	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Arsenic	3.2	0.30	0.055	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Barium	87	0.30	0.0052	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Beryllium	0.24	0.12	0.0023	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.30	0.0029	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Chromium	90	0.30	0.018	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cobalt	16	0.30	0.0087	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Copper	33	0.30	0.031	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Lead	18	0.26	0.085	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Mercury	0.14	0.024	0.0048	131361	11/06/07	11/06/07	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.025	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Nickel	160	0.30	0.020	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.087	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.020	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.038	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Vanadium	45	0.30	0.024	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Zinc	51	1.2	0.031	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198880	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX358[4.0]	Basis:	dry
Lab ID:	198880-002	Sampled:	10/31/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg		

Moisture: 10%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	7.4	0.56	0.030	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Arsenic	2.0	0.28	0.055	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Barium	38	0.28	0.0051	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Beryllium	0.16	0.11	0.0023	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cadmium	0.020 J	0.28	0.0029	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Chromium	6.4	0.28	0.018	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cobalt	18	0.28	0.0086	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Copper	33	0.28	0.031	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Lead	ND	0.25	0.084	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Mercury	13	0.38	0.088	20.00	131361	11/06/07	11/06/07	METHOD	EPA 7471A
Molybdenum	ND	0.28	0.025	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Nickel	17	0.28	0.020	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Selenium	ND	0.56	0.086	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Silver	0.072 J	0.28	0.020	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.038	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Vanadium	120	0.28	0.023	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Zinc	51	1.1	0.031	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413589	Batch#:	131284
Matrix:	Soil	Prepared:	11/02/07
Units:	mg/Kg	Analyzed:	11/05/07
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.027
Arsenic	ND	0.25	0.050
Barium	ND	0.25	0.0047
Beryllium	0.0026 J	0.10	0.0021
Cadmium	ND	0.25	0.0027
Chromium	0.025 J	0.25	0.017
Cobalt	ND	0.25	0.0078
Copper	0.056 J	0.25	0.028
Lead	0.077 J	0.23	0.076
Molybdenum	0.026 J	0.25	0.022
Nickel	ND	0.25	0.018
Selenium	ND	0.50	0.078
Silver	0.060 J	0.25	0.018
Thallium	ND	0.50	0.034
Vanadium	ND	0.25	0.021
Zinc	ND	1.0	0.028

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413907	Batch#:	131361
Matrix:	Soil	Prepared:	11/06/07
Units:	mg/Kg	Analyzed:	11/06/07

Result	RL	MDL
ND	0.020	0.0047

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	131284
Units:	mg/Kg	Prepared:	11/02/07
Basis:	as received	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413590

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	90.86	91	75-125
Arsenic	50.00	48.96	98	75-125
Barium	100.0	94.83	95	75-125
Beryllium	2.500	2.454	98	75-125
Cadmium	10.00	9.560	96	75-125
Chromium	100.0	91.53	92	75-125
Cobalt	25.00	22.44	90	75-125
Copper	12.50	11.55	92	75-125
Lead	100.0	91.11	91	75-125
Molybdenum	20.00	19.02	95	75-125
Nickel	25.00	22.55	90	75-125
Selenium	50.00	46.27	93	75-125
Silver	10.00	8.773	88	75-125
Thallium	50.00	45.42	91	75-125
Vanadium	25.00	23.03	92	75-125
Zinc	25.00	22.94	92	75-125

Type: BSD Lab ID: QC413591

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	93.84	94	75-125	3	30
Arsenic	50.00	49.99	100	75-125	2	30
Barium	100.0	97.30	97	75-125	3	30
Beryllium	2.500	2.510	100	75-125	2	30
Cadmium	10.00	9.794	98	75-125	2	30
Chromium	100.0	93.40	93	75-125	2	30
Cobalt	25.00	22.97	92	75-125	2	30
Copper	12.50	11.77	94	75-125	2	30
Lead	100.0	93.10	93	75-125	2	30
Molybdenum	20.00	19.61	98	75-125	3	30
Nickel	25.00	23.03	92	75-125	2	30
Selenium	50.00	47.36	95	75-125	2	30
Silver	10.00	8.892	89	75-125	1	30
Thallium	50.00	46.33	93	75-125	2	30
Vanadium	25.00	23.47	94	75-125	2	30
Zinc	25.00	23.48	94	75-125	2	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131361
Units:	mg/Kg	Prepared:	11/06/07
Basis:	as received	Analyzed:	11/06/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC413908	0.5000	0.5160	103	75-125		
BSD	QC413909	0.5000	0.5210	104	75-125	1	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX359[4.0]	Batch#:	131284
MSS Lab ID:	198903-001	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: MS Moisture: 16%
Lab ID: QC413592

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.477	112.3	73.58	63 *	75-125
Arsenic	2.337	56.15	55.92	95	75-125
Barium	76.07	112.3	185.1	97	75-125
Beryllium	0.1645	2.808	2.843	95	75-125
Cadmium	0.02437	11.23	10.43	93	75-125
Chromium	55.28	112.3	152.0	86	75-125
Cobalt	7.093	28.08	31.04	85	75-125
Copper	24.73	14.04	39.44	105 P	75-125
Lead	97.52	112.3	227.8	116	75-125
Molybdenum	<0.02392	22.46	20.26	90	75-125
Nickel	40.88	28.08	64.29	83 P	75-125
Selenium	<0.08351	56.15	50.13	89	75-125
Silver	0.1544	11.23	9.932	87	75-125
Thallium	<0.03683	56.15	46.60	83	75-125
Vanadium	32.59	28.08	57.82	90 P	75-125
Zinc	99.98	28.08	260.2	570 * P	75-125

Type: MSD Moisture: 16%
Lab ID: QC413593

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	114.5	72.39	61 *	75-125	3	30
Arsenic	57.23	57.41	96	75-125	1	30
Barium	114.5	184.2	94	75-125	2	30
Beryllium	2.862	2.917	96	75-125	1	30
Cadmium	11.45	10.51	92	75-125	1	30
Chromium	114.5	163.1	94	75-125	6	30
Cobalt	28.62	31.22	84	75-125	1	30
Copper	14.31	51.56	188 * P	75-125	26	30
Lead	114.5	280.9	160 *	75-125	20	30
Molybdenum	22.89	20.45	89	75-125	1	30
Nickel	28.62	63.59	79 P	75-125	2	30
Selenium	57.23	50.79	89	75-125	1	30
Silver	11.45	10.43	90	75-125	3	30
Thallium	57.23	47.65	83	75-125	0	30
Vanadium	28.62	60.79	99 P	75-125	4	30
Zinc	28.62	196.7	338 * P	75-125	28	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

9.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	131361
MSS Lab ID:	198956-001	Sampled:	11/02/07
Matrix:	Soil	Received:	11/02/07
Units:	mg/Kg	Prepared:	11/06/07
Basis:	dry	Analyzed:	11/06/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC413911	0.04959	0.4843	0.5705	108	75-125	11%		
MSD	QC413912		0.5977	0.6873	107	75-125	11%	1	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX359[4.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	198903-001	Batch#:	131284
Lab ID:	QC413594	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg	Analyzed:	11/05/07

Moisture: 16%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	2.477	0.5952	2.718	1.341	10	10
Arsenic	2.337	0.2976	2.487	1.341	NC	10
Barium	76.07	0.2976	79.44	1.341	4	10
Beryllium	0.1645	0.1190	0.1928 J	0.5363	17 *	10
Cadmium	0.02437	0.2976	ND	1.341	NC	10
Chromium	55.28	0.2976	57.47	1.341	4	10
Cobalt	7.093	0.2976	7.616	1.341	7	10
Copper	24.73	0.2976	25.16	1.341	2	10
Lead	97.52	0.2459	106.5	1.230	9	10
Molybdenum	ND	0.2976	0.2834 J	1.341	NC	10
Nickel	40.88	0.2976	43.75	1.341	7	10
Selenium	ND	0.5952	ND	1.341	NC	10
Silver	0.1544	0.2976	ND	1.341	NC	10
Thallium	ND	0.5952	ND	1.341	NC	10
Vanadium	32.59	0.2976	32.85	1.341	1	10
Zinc	99.98	1.190	104.1	5.363	4	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

10.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131361
MSS Lab ID:	198956-001	Sampled:	11/02/07
Lab ID:	QC413910	Received:	11/02/07
Matrix:	Soil	Analyzed:	11/06/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.04959	0.02247	ND	0.09686	11%	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum : 87445470023
File : 110507r
IDF : 1.0
Lab ID : 198903-001
Matrix : Soil
Batch : 131284
Time : 05-NOV-2007 09:50
Cal : 87445470001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum : 87445470027
File : 110507r
IDF : 1.0
Lab ID : QC413595
Matrix : Soil
Batch : 131284
Time : 05-NOV-2007 09:59
Cal : 87445470001

MSS: 1.11 g --> 50.0 ml = 45.05 ml/g PDF
PDS: 1.11 g --> 50.0 ml = 45.05 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	95090	R	20000	114200 >LR	R	95	75-125	: >LR u
Antimony	46.19	A	2000	1890	A	92	75-125	u
Arsenic	43.58	A	1000	1044	A	100	75-125	u
Barium	1419	A	2000	3341	A	96	75-125	u
Beryllium	3.068	A	50.00	53.34	A	101	75-125	u
Cadmium	0.4545	A	200.0	192.3	A	96	75-125	u
Calcium	49590	R	20000	69300	R	99	75-125	u
Chromium	1031	A	2000	2885	A	93	75-125	u
Cobalt	132.3	A	500.0	578.0	A	89	75-125	u
Copper	461.2	A	250.0	694.4	A	93	75-125	u
Lead	1819	A	2000	3595	A	89	75-125	u
Magnesium	48540	R	20000	68360	R	99	75-125	u
Manganese	1914	A	500.0	2348	A	87	75-125	u
Molybdenum	ND	A	400.0	388.4	A	97	75-125	u
Nickel	762.4	A	500.0	1193	A	86	75-125	u
Potassium	7448	R	10000	17220	R	98	75-125	u
Selenium	ND	A	1000	958.6	A	96	75-125	u
Silver	2.879	A	200.0	189.7	A	93	75-125	u
Sodium	2517	R	20000	22020	R	98	75-125	u
Thallium	ND	A	1000	891.7	A	89	75-125	u
Vanadium	607.8	A	500.0	1077	A	94	75-125	u
Zinc	1864	A	500.0	2301	A	87	75-125	u
Boron	70.85	A	1000	1040	A	97	75-125	u
Tin	57.34	A	1000	999.0	A	94	75-125	u
Titanium	7722	A	1000	8600	A	88	75-125	: u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3586725	3295309	-8.12

:=recovery not meaningful >LR=overrange u=use

87445470027

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87445470001
Units : ug/L

Date : 05-NOV-2007 08:30
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110507r	87445470002	CRIM08	05-NOV-2007 08:34	S7555
L2	110507r	87445470003	CS100	05-NOV-2007 08:3[illegible]	S7382
L3	110507r	87445470004	CS1K	05-NOV-2007 08:41	S7381
L4	110507r	87445470005	CS10K	05-NOV-2007 08:44	S7383
L5	110507r	87445470006	CS100K	05-NOV-2007 08:47	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	27.338	29.077	29.102	30.164		LOR0	0.00000	0.03316		28.920	1.000	0.995	
Arsenic	A	15.607	18.554	18.182	18.092		LOR0	0.00000	0.05527		17.609	1.000	0.995	
Barium	A	444.99	445.48	433.51	424.08		LOR0	0.00000	0.00236		437.01	1.000	0.995	
Beryllium	A	3137.0	3067.0	3040.6			LOR0	0.00000	3.29E-4		3081.5	1.000	0.995	
Boron	A	148.03		149.51	157.11		LOR0	0.00000	0.00637		151.55	1.000	0.995	
Cadmium	A	215.11	220.76	219.41	215.65		LOR0	0.00000	0.00464		217.73	1.000	0.995	
Chromium	A	67.933	67.985	66.570	66.766		LOR0	0.00000	0.01498		67.314	1.000	0.995	
Cobalt	A	113.74	112.40	116.36	116.04		LOR0	0.00000	0.00862		114.64	1.000	0.995	
Copper	A	411.40	404.69	406.43	408.24		LOR0	0.00000	0.00245		407.69	1.000	0.995	
Lead	A	37.464	43.094	43.131	42.841		LOR0	0.00000	0.02334		41.632	1.000	0.995	
Manganese	A	1366.4	1366.2	1324.9	1273.7		LOR0	0.00000	7.85E-4		1332.8	1.000	0.995	
Molybdenum	A	38.010	37.756	36.579	36.887		LOR0	0.00000	0.02711		37.308	1.000	0.995	
Nickel	A	37.818	37.533	38.799	38.721		LOR0	0.00000	0.02583		38.218	1.000	0.995	
Selenium	A	26.794	27.732	27.253	28.741		LOR0	0.00000	0.03481		27.630	1.000	0.995	
Silver	A	381.77	475.31	468.31	480.10		LOR0	0.00000	0.00209		451.37	1.000	0.995	
Thallium	A	17.092	18.165	17.837	17.589		LOR0	0.00000	0.05685		17.671	1.000	0.995	
Tin	A	22.262	22.463	22.224	23.750		LOR0	0.00000	0.04213		22.675	1.000	0.995	
Titanium	A	1183.5	1237.5	1203.8	1178.5		LOR0	0.00000	8.48E-4		1200.8	1.000	0.995	
Vanadium	A	105.01	107.22	105.78	107.88		LOR0	0.00000	0.00927		106.47	1.000	0.995	
Zinc	A	139.75	85.167	79.333	80.262		LOR0	0.00000	0.01246		96.127	1.000	0.995	
Aluminum	R	1.5039		1.4330	1.3730	1.4485	LOR0	0.00000	0.69072		1.4396	1.000	0.995	
Calcium	R	15.868		15.862	14.885	15.745	LOR0	0.00000	0.06355		15.590	1.000	0.995	
Iron	R	13.279		12.948	12.112	12.926	LOR0	0.00000	0.07741		12.816	1.000	0.995	
Magnesium	R	2.1976		2.1822	2.0190	2.1327	LOR0	0.00000	0.46914		2.1329	1.000	0.995	
Potassium	R	4.3320		4.9462	4.5705	5.0277	LOR0	0.00000	0.19908		4.7191	1.000	0.995	
Sodium	R	11.147		11.472	10.734	11.253	LOR0	0.00000	0.08891		11.151	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-9	100.0	-4	1000	-3	10000	0		
Arsenic	A	5.000	-14	100.0	3	1000	0	10000	0		
Barium	A	5.000	5	100.0	5	1000	2	10000	0		
Beryllium	A	2.000	3	100.0	1	1000	0				
Boron	A	100.0	-6			1000	-5	10000	0		
Cadmium	A	5.000	0	100.0	2	1000	2	10000	0		
Chromium	A	5.000	2	100.0	2	1000	0	10000	0		
Cobalt	A	5.000	-2	100.0	-3	1000	0	10000	0		
Copper	A	5.000	1	100.0	-1	1000	0	10000	0		
Lead	A	3.000	-13	100.0	1	1000	1	10000	0		
Manganese	A	5.000	7	100.0	7	1000	4	10000	0		
Molybdenum	A	5.000	3	100.0	2	1000	-1	10000	0		
Nickel	A	5.000	-2	100.0	-3	1000	0	10000	0		
Selenium	A	5.000	-7	100.0	-3	1000	-5	10000	0		
Silver	A	5.000	-20	100.0	-1	1000	-2	2000	0		
Thallium	A	5.000	-3	100.0	3	1000	1	10000	0		
Tin	A	40.00	-6	100.0	-5	1000	-6	10000	0		
Titanium	A	10.00	0	100.0	5	1000	2	10000	0		
Vanadium	A	5.000	-3	100.0	-1	1000	-2	10000	0		
Zinc	A	20.00	74	100.0	6	1000	-1	10000	0		
Aluminum	R	100.0	4			1000	-1	10000	-5	100000	0
Calcium	R	200.0	1			1000	1	10000	-5	100000	0
Iron	R	100.0	3			1000	0	10000	-6	100000	0
Magnesium	R	200.0	3			1000	2	10000	-5	100000	0
Potassium	R	500.0	-14			1000	-2	10000	-9	100000	0
Sodium	R	500.0	-1			1000	2	10000	-5	100000	0

0034

nstrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/5/2007 8:30:41 AM
Data Type: Reprocessed on 11/5/2007 9:05:49 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1968.2	82.60	4.20%	[0.00]	ug/L
Al 308.215 R	-226.5	1.34	0.59%	[0.00]	ug/L
As 188.979	-52.0	11.60	22.32%	[0.00]	ug/L
B 249.677	192.9	28.39	14.72%	[0.00]	ug/L
Ba 233.527	3.0	2.55	85.07%	[0.00]	ug/L
Be 313.107	-909.5	110.68	12.17%	[0.00]	ug/L
Ca 315.887 R	467.0	29.25	6.26%	[0.00]	ug/L
Cd 214.440	65.0	7.11	10.93%	[0.00]	ug/L
Co 228.616	-408.4	9.09	2.23%	[0.00]	ug/L
Cr 267.716	-85.0	5.16	6.07%	[0.00]	ug/L
Cu 324.752	3703.1	31.86	0.86%	[0.00]	ug/L
Fe 238.204 R	142.3	6.90	4.85%	[0.00]	ug/L
K 766.490 R	207.8	216.60	104.25%	[0.00]	ug/L
Mg 279.077 R	18.9	3.77	19.89%	[0.00]	ug/L
Mn 257.610	439.3	9.25	2.11%	[0.00]	ug/L
Mo 202.031	-12.9	4.08	31.65%	[0.00]	ug/L
Na 589.592 R	-2941.4	97.34	3.31%	[0.00]	ug/L
Ni 231.604	-300.4	5.08	1.69%	[0.00]	ug/L
Pb 220.353	206.1	50.17	24.34%	[0.00]	ug/L
Sb 206.836	117.6	7.64	6.49%	[0.00]	ug/L
Se 196.026	-3.6	35.80	>999.9%	[0.00]	ug/L
Ti 334.940 R	146.5	101.82	69.52%	[0.00]	ug/L
Tl 190.801	-34.0	10.61	31.20%	[0.00]	ug/L
V 292.402	-154.3	8.87	5.75%	[0.00]	ug/L
Zn 206.200	693.1	3.64	0.52%	[0.00]	ug/L
Sn 189.927	-9.3	6.42	69.33%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/5/2007 8:34:39 AM
Data Type: Reprocessed on 11/5/2007 9:05:50 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3586724.6	32676.81	0.91%	100.0	%
Y	285603.0	469.96	0.16%	100.0	%
Ag 328.068†	1908.9	267.25	14.00%	[5.0]	ug/L
Al 308.215 R†	150.4	3.83	2.55%	[100]	ug/L
As 188.979†	78.0	21.41	27.44%	[5.0]	ug/L
B 249.677†	14803.2	391.88	2.65%	[100]	ug/L
Ba 233.527†	2225.0	21.94	0.99%	[5.0]	ug/L
Be 313.107†	6273.9	84.25	1.34%	[2.0]	ug/L
Ca 315.887 R†	3173.5	30.82	0.97%	[200]	ug/L
Cd 214.440†	1075.5	7.88	0.73%	[5.0]	ug/L
Co 228.616†	568.7	8.26	1.45%	[5.0]	ug/L
Cr 267.716†	339.7	9.31	2.74%	[5.0]	ug/L
Cu 324.752†	2057.0	109.98	5.35%	[5.0]	ug/L
Fe 238.204 R†	1327.9	8.77	0.66%	[100]	ug/L
K 766.490 R†	2166.0	232.69	10.74%	[500]	ug/L
Mg 279.077 R†	439.5	3.27	0.74%	[200]	ug/L
Mn 257.610†	6831.9	37.63	0.55%	[5.0]	ug/L
Mo 202.031†	190.0	1.62	0.85%	[5.0]	ug/L
Na 589.592 R†	5573.3	111.58	2.00%	[500]	ug/L
Ni 231.604†	189.1	3.46	1.83%	[5.0]	ug/L
Pb 220.353†	112.4	15.61	13.89%	[3.0]	ug/L
Sb 206.836†	136.7	26.29	19.23%	[5.0]	ug/L
Se 196.026†	134.0	49.53	36.97%	[5.0]	ug/L
Ti 334.940 R†	11835.1	94.79	0.80%	[10]	ug/L
Tl 190.801†	85.5	22.05	25.80%	[5.0]	ug/L
V 292.402†	525.0	5.53	1.05%	[5.0]	ug/L
Zn 206.200†	2794.9	23.33	0.83%	[20]	ug/L
Sn 189.927†	890.5	6.77	0.76%	[40]	ug/L

Sequence No.: 3 Autosampler Location: 3
Sample ID: ICAL,CS100 Date Collected: 11/5/2007 8:38:48 AM
Analyst: Data Type: Reprocessed on 11/5/2007 9:05:51 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3549550.7	50433.24	1.42%	98.96	%
Y	284757.7	5121.70	1.80%	99.70	%
Ag 328.068†	47530.7	801.87	1.69%	[100]	ug/L
As 188.979†	1855.4	13.89	0.75%	[100]	ug/L
Ba 233.527†	44548.0	1175.02	2.64%	[100]	ug/L
Be 313.107†	306700.2	814.32	0.27%	[100]	ug/L
Cd 214.440†	22076.2	460.42	2.09%	[100]	ug/L
Co 228.616†	11240.3	147.20	1.31%	[100]	ug/L
Cr 267.716†	6798.5	198.85	2.92%	[100]	ug/L
Cu 324.752†	40469.2	989.96	2.45%	[100]	ug/L
Mn 257.610†	136622.6	3286.45	2.41%	[100]	ug/L
Mo 202.031†	3775.6	37.63	1.00%	[100]	ug/L
Ni 231.604†	3753.3	52.77	1.41%	[100]	ug/L
Pb 220.353†	4309.4	130.06	3.02%	[100]	ug/L
Sb 206.836†	2907.7	37.56	1.29%	[100]	ug/L
Se 196.026†	2773.2	34.68	1.25%	[100]	ug/L
Ti 334.940 R†	123749.5	2731.84	2.21%	[100]	ug/L
Tl 190.801†	1816.5	23.60	1.30%	[100]	ug/L
V 292.402†	10721.8	196.70	1.83%	[100]	ug/L
Zn 206.200†	8516.7	134.00	1.57%	[100]	ug/L
Sn 189.927†	2246.3	29.97	1.33%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/5/2007 8:41:45 AM
Data Type: Reprocessed on 11/5/2007 9:05:52 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3595087.2	67252.46	1.87%	100.2	%
Y	282014.8	514.53	0.18%	98.74	%
Ag 328.068†	468308.9	6264.33	1.34%	[1000]	ug/L
Al 308.215 R†	1433.0	14.92	1.04%	[1000]	ug/L
As 188.979†	18182.5	323.82	1.78%	[1000]	ug/L
B 249.677†	149514.1	2894.64	1.94%	[1000]	ug/L
Ba 233.527†	433509.1	7282.38	1.68%	[1000]	ug/L
Be 313.107†	3040611.4	15251.55	0.50%	[1000]	ug/L
Ca 315.887 R†	15861.7	192.75	1.22%	[1000]	ug/L
Cd 214.440†	219405.1	3007.58	1.37%	[1000]	ug/L
Co 228.616†	116363.0	1839.96	1.58%	[1000]	ug/L
Cr 267.716†	66570.3	948.36	1.42%	[1000]	ug/L
Cu 324.752†	406433.6	6579.96	1.62%	[1000]	ug/L
Fe 238.204 R†	12948.4	226.80	1.75%	[1000]	ug/L
K 766.490 R†	4946.2	243.18	4.92%	[1000]	ug/L
Mg 279.077 R†	2182.2	45.41	2.08%	[1000]	ug/L
Mn 257.610†	1524886.7	3157.13	0.24%	[1000]	ug/L
Mo 202.031†	36578.7	796.28	2.18%	[1000]	ug/L
Na 589.592 R†	11472.3	271.64	2.37%	[1000]	ug/L
Ni 231.604†	38799.4	625.94	1.61%	[1000]	ug/L
Pb 220.353†	43130.8	987.86	2.29%	[1000]	ug/L
Sb 206.836†	29101.8	645.26	2.22%	[1000]	ug/L
Se 196.026†	27252.8	599.79	2.20%	[1000]	ug/L
Ti 334.940 R†	1203823.3	2850.32	0.24%	[1000]	ug/L
Tl 190.801†	17836.7	366.72	2.06%	[1000]	ug/L
V 292.402†	105779.1	1657.64	1.57%	[1000]	ug/L
Zn 206.200†	79332.6	1247.19	1.57%	[1000]	ug/L
Sn 189.927†	22224.2	438.66	1.97%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/5/2007 8:44:45 AM
Data Type: Reprocessed on 11/5/2007 9:05:53 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3423303.8	34809.17	1.02%	95.44	%
Y	289571.1	3655.35	1.26%	101.4	%
Ag 328.068†	960202.1	11729.05	1.22%	[2000]	ug/L
Al 308.215 Rt	13729.7	265.60	1.93%	[10000]	ug/L
As 188.979†	180916.8	2076.77	1.15%	[10000]	ug/L
B 249.677†	1571106.8	17358.31	1.10%	[10000]	ug/L
Ba 233.527†	4240772.3	28031.59	0.66%	[10000]	ug/L
Ca 315.887 Rt	148850.8	1718.62	1.15%	[10000]	ug/L
Cd 214.440†	2156489.9	20115.36	0.93%	[10000]	ug/L
Co 228.616†	1160355.7	10217.83	0.88%	[10000]	ug/L
Cr 267.716†	667664.0	7107.47	1.06%	[10000]	ug/L
Cu 324.752†	4082408.4	33584.12	0.82%	[10000]	ug/L
Fe 238.204 Rt	121118.4	1339.53	1.11%	[10000]	ug/L
K 766.490 Rt	45705.3	478.29	1.05%	[10000]	ug/L
Mg 279.077 Rt	20189.5	160.28	0.79%	[10000]	ug/L
Mn 257.610†	12736893.1	101913.12	0.80%	[10000]	ug/L
Mo 202.031†	368874.5	4082.90	1.11%	[10000]	ug/L
Na 589.592 Rt	107336.2	1586.56	1.48%	[10000]	ug/L
Ni 231.604†	387208.0	3298.87	0.85%	[10000]	ug/L
Pb 220.353†	428409.2	6836.61	1.60%	[10000]	ug/L
Sb 206.836†	301636.4	3321.50	1.10%	[10000]	ug/L
Se 196.026†	287413.5	5376.89	1.87%	[10000]	ug/L
Ti 334.940 Rt	11784942.7	107735.64	0.91%	[10000]	ug/L
Tl 190.801†	175889.8	2809.94	1.60%	[10000]	ug/L
V 292.402†	1078829.0	9814.83	0.91%	[10000]	ug/L
Zn 206.200†	802616.5	5393.03	0.67%	[10000]	ug/L
Sn 189.927†	237496.4	2171.64	0.91%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/5/2007 8:47:48 AM
Data Type: Reprocessed on 11/5/2007 9:05:53 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	135.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1141368.4	8596.73	0.27%	87.58	%
Y	259629.0	3094.73	1.19%	90.91	%
Al 308.215 Rt	144851.8	62.98	0.04%	[100000]	ug/L
Ca 315.887 Rt	1574462.6	5609.80	0.36%	[100000]	ug/L
Fe 238.204 Rt	1292631.3	3031.83	0.23%	[100000]	ug/L
K 766.490 Rt	502769.2	479.11	0.10%	[100000]	ug/L
Mg 279.077 Rt	213270.2	1249.99	0.59%	[100000]	ug/L
Na 589.592 Rt	1125262.1	1747.26	0.16%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	477.7	0.00000	0.999951	
Al 308.215 R	4	Lin Thru 0	0.0	1.448	0.00000	0.999987	
As 188.979	4	Lin Thru 0	0.0	18.09	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	157.0	0.00000	0.999988	
Ba 233.527	4	Lin Thru 0	0.0	424.2	0.00000	0.999997	
Be 313.107	3	Lin Thru 0	0.0	3041	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	15.74	0.00000	0.999985	
Cd 214.440	4	Lin Thru 0	0.0	215.7	0.00000	0.999998	
Co 228.616	4	Lin Thru 0	0.0	116.0	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	66.76	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	408.2	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	12.92	0.00000	0.999981	
K 766.490 R	4	Lin Thru 0	0.0	5.023	0.00000	0.999959	
Mg 279.077 R	4	Lin Thru 0	0.0	2.132	0.00000	0.999986	
Mn 257.610	4	Lin Thru 0	0.0	1274	0.00000	0.999992	
Mo 202.031	4	Lin Thru 0	0.0	36.88	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	11.25	0.00000	0.999990	
Ni 231.604	4	Lin Thru 0	0.0	38.72	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	42.84	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	30.15	0.00000	0.999994	
Se 196.026	4	Lin Thru 0	0.0	28.73	0.00000	0.999987	
Ti 334.940 R	4	Lin Thru 0	0.0	1179	0.00000	0.999998	
Tl 190.801	4	Lin Thru 0	0.0	17.59	0.00000	0.999999	
V 292.402	4	Lin Thru 0	0.0	107.9	0.00000	0.999998	
Zn 206.200	4	Lin Thru 0	0.0	80.25	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	23.73	0.00000	0.999980	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470007 File : 110507r Time : 05-NOV-2007 08:53
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	28.920	30.166	5000	5002	ug/L	0	10	
Arsenic	A	17.609	19.267	5000	5325	ug/L	6	10	
Barium	A	437.01	439.59	5000	5182	ug/L	4	10	
Beryllium	A	3081.5	3171.8	500.0	521.5	ug/L	4	10	
Boron	A	151.55	162.40	5000	5171	ug/L	3	10	
Cadmium	A	217.73	219.39	5000	5086	ug/L	2	10	
Chromium	A	67.314	65.705	5000	4921	ug/L	-2	10	
Cobalt	A	114.64	113.65	5000	4887	ug/L	-2	10	
Copper	A	407.69	403.45	5000	4942	ug/L	-1	10	
Lead	A	41.632	42.327	5000	4940	ug/L	-1	10	
Manganese	A	1332.8	1297.8	5000	5093	ug/L	2	10	
Molybdenum	A	37.308	37.046	5000	5022	ug/L	0	10	
Nickel	A	38.218	38.288	5000	4944	ug/L	-1	10	
Selenium	A	27.630	28.665	5000	4989	ug/L	0	10	
Silver	A	451.37	464.15	1000	971.6	ug/L	-3	10	
Thallium	A	17.671	17.549	5000	4988	ug/L	0	10	
Tin	A	22.675	23.185	5000	4884	ug/L	-2	10	
Titanium	A	1200.8	1196.1	5000	5074	ug/L	1	10	
Vanadium	A	106.47	107.93	5000	5003	ug/L	0	10	
Zinc	A	96.127	79.634	5000	4961	ug/L	-1	10	
Aluminum	R	1.4396	1.3330	20000	18420	ug/L	-8	10	
Calcium	R	15.590	14.854	20000	18880	ug/L	-6	10	
Iron	R	12.816	12.178	20000	18850	ug/L	-6	10	
Magnesium	R	2.1329	2.0478	20000	19210	ug/L	-4	10	
Potassium	R	4.7191	4.6124	20000	18360	ug/L	-8	10	
Sodium	R	11.151	10.694	20000	19020	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3375490	-5.89

87445470007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470008 File : 110507r Time : 05-NOV-2007 08:56
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1459]	2.000	0.1170	ug/L	!ib
Boron	A	[41.34]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	[1.257]	3.000	1.150	ug/L	!ib
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[3.223]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3507963	-2.20

!=warning ib=instrument blank

87445470008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470009 File : 110507r Time : 05-NOV-2007 09:01
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[0.8441]	5.000	ug/L	
Arsenic	A	[2.464]	5.000	ug/L	
Barium	A	[0.1914]	5.000	ug/L	
Beryllium	A	[-0.5200]	2.000	ug/L	
Boron	A	[19.54]	100.0	ug/L	
Cadmium	A	[-2.922]	5.000	ug/L	
Cobalt	A	[-1.157]	5.000	ug/L	
Lead	A	[0.8304]	3.000	ug/L	
Molybdenum	A	[-1.152]	5.000	ug/L	
Selenium	A	6.043	5.000	ug/L	
Silver	A	[-1.383]	5.000	ug/L	
Thallium	A	[-8.978]	5.000	ug/L	
Tin	A	[-10.04]	40.00	ug/L	
Zinc	A	[-2.320]	20.00	ug/L	
Potassium	R	[29.31]	500.0	ug/L	
Sodium	R	[47.36]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18700	ug/L	93
Copper	A	20000	19630	ug/L	98
Manganese	A	20000	17940	ug/L	90
Nickel	A	20000	17020	ug/L	85
Titanium	A	20000	19410	ug/L	97
Vanadium	A	20000	19570	ug/L	98
Aluminum	R	500000	531700	ug/L	106
Calcium	R	500000	511700	ug/L	102
Iron	R	200000	198200	ug/L	99
Magnesium	R	500000	518400	ug/L	104

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2933971	-18.20

87445470009

00355

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470010 File : 110507r Time : 05-NOV-2007 09:07
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	558.5	ug/L	12	20	
Arsenic	A	500.0	563.1	ug/L	13	20	
Barium	A	500.0	533.1	ug/L	7	20	
Beryllium	A	500.0	545.0	ug/L	9	20	
Cadmium	A	1000	979.7	ug/L	-2	20	
Chromium	A	500.0	496.0	ug/L	-1	20	
Cobalt	A	500.0	443.8	ug/L	-11	20	
Copper	A	500.0	507.1	ug/L	1	20	
Lead	A	1000	933.0	ug/L	-7	20	
Manganese	A	500.0	463.6	ug/L	-7	20	
Molybdenum	A	500.0	509.2	ug/L	2	20	
Nickel	A	1000	907.1	ug/L	-9	20	
Selenium	A	500.0	511.9	ug/L	2	20	
Silver	A	1000	1071	ug/L	7	20	
Thallium	A	500.0	435.7	ug/L	-13	20	
Titanium	A	20000	20220	ug/L	1		
Vanadium	A	500.0	534.8	ug/L	7	20	
Zinc	A	1000	1000	ug/L	0	20	
Aluminum	R	500000	486900	ug/L	-3		
Calcium	R	500000	472500	ug/L	-5		
Iron	R	200000	183700	ug/L	-8		
Magnesium	R	500000	477400	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2859972	-20.26

87445470010

00356

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470014 File : 110507r Time : 05-NOV-2007 09:19
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.9	ug/L	12	20	
Arsenic	A	500.0	551.2	ug/L	10	20	
Barium	A	500.0	527.2	ug/L	5	20	
Beryllium	A	500.0	538.9	ug/L	8	20	
Cadmium	A	1000	965.2	ug/L	-3	20	
Chromium	A	500.0	490.3	ug/L	-2	20	
Cobalt	A	500.0	441.9	ug/L	-12	20	
Copper	A	500.0	497.4	ug/L	-1	20	
Lead	A	1000	931.1	ug/L	-7	20	
Manganese	A	500.0	458.0	ug/L	-8	20	
Molybdenum	A	500.0	504.8	ug/L	1	20	
Nickel	A	1000	898.0	ug/L	-10	20	
Selenium	A	500.0	494.8	ug/L	-1	20	
Silver	A	1000	1057	ug/L	6	20	
Thallium	A	500.0	439.5	ug/L	-12	20	
Titanium	A	20000	19900	ug/L	0		
Vanadium	A	500.0	526.2	ug/L	5	20	
Zinc	A	1000	986.3	ug/L	-1	20	
Aluminum	R	500000	496800	ug/L	-1		
Calcium	R	500000	480800	ug/L	-4		
Iron	R	200000	184700	ug/L	-8		
Magnesium	R	500000	484900	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2904630	-19.02

87445470014

00357

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470020 File : 110507r Time : 05-NOV-2007 09:39
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	29.746	5000	4932	ug/L	-1	10	
Arsenic	A	17.609	18.938	5000	5234	ug/L	5	10	
Barium	A	437.01	440.28	5000	5190	ug/L	4	10	
Beryllium	A	3081.5	3183.6	500.0	523.5	ug/L	5	10	
Boron	A	151.55	159.43	5000	5076	ug/L	2	10	
Cadmium	A	217.73	219.46	5000	5088	ug/L	2	10	
Chromium	A	67.314	65.775	5000	4926	ug/L	-1	10	
Cobalt	A	114.64	113.77	5000	4892	ug/L	-2	10	
Copper	A	407.69	403.56	5000	4943	ug/L	-1	10	
Lead	A	41.632	41.641	5000	4860	ug/L	-3	10	
Manganese	A	1332.8	1299.5	5000	5099	ug/L	2	10	
Molybdenum	A	37.308	36.932	5000	5006	ug/L	0	10	
Nickel	A	38.218	38.271	5000	4942	ug/L	-1	10	
Selenium	A	27.630	28.065	5000	4885	ug/L	-2	10	
Silver	A	451.37	464.01	1000	971.3	ug/L	-3	10	
Thallium	A	17.671	17.062	5000	4849	ug/L	-3	10	
Tin	A	22.675	23.088	5000	4864	ug/L	-3	10	
Titanium	A	1200.8	1197.9	5000	5081	ug/L	2	10	
Vanadium	A	106.47	107.94	5000	5004	ug/L	0	10	
Zinc	A	96.127	79.397	5000	4947	ug/L	-1	10	
Aluminum	R	1.4396	1.4456	20000	19970	ug/L	0	10	
Calcium	R	15.590	16.102	20000	20460	ug/L	2	10	
Iron	R	12.816	13.214	20000	20460	ug/L	2	10	
Magnesium	R	2.1329	2.2151	20000	20780	ug/L	4	10	
Potassium	R	4.7191	4.9170	20000	19580	ug/L	-2	10	
Sodium	R	11.151	11.378	20000	20230	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3325086	-7.29

87445470020

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470022 File : 110507r Time : 05-NOV-2007 09:46
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1510]	2.000	0.1170	ug/L	!ib
Boron	A	[15.98]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.475]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	[2.268]	5.000	1.986	ug/L	!ib
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3518823	-1.89

!=warning ib=instrument blank

87445470022

00359

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470034 File : 110507r Time : 05-NOV-2007 10:17
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.091	5000	4990	ug/L	0	10	
Arsenic	A	17.609	19.214	5000	5310	ug/L	6	10	
Barium	A	437.01	443.07	5000	5223	ug/L	4	10	
Beryllium	A	3081.5	3184.3	500.0	523.6	ug/L	5	10	
Boron	A	151.55	161.36	5000	5138	ug/L	3	10	
Cadmium	A	217.73	221.18	5000	5127	ug/L	3	10	
Chromium	A	67.314	66.168	5000	4955	ug/L	-1	10	
Cobalt	A	114.64	114.44	5000	4921	ug/L	-2	10	
Copper	A	407.69	405.50	5000	4967	ug/L	-1	10	
Lead	A	41.632	42.215	5000	4927	ug/L	-1	10	
Manganese	A	1332.8	1306.5	5000	5127	ug/L	3	10	
Molybdenum	A	37.308	37.273	5000	5053	ug/L	1	10	
Nickel	A	38.218	38.675	5000	4994	ug/L	0	10	
Selenium	A	27.630	28.567	5000	4972	ug/L	-1	10	
Silver	A	451.37	466.49	1000	976.5	ug/L	-2	10	
Thallium	A	17.671	17.330	5000	4926	ug/L	-1	10	
Tin	A	22.675	23.368	5000	4923	ug/L	-2	10	
Titanium	A	1200.8	1203.0	5000	5103	ug/L	2	10	
Vanadium	A	106.47	108.66	5000	5037	ug/L	1	10	
Zinc	A	96.127	80.217	5000	4998	ug/L	0	10	
Aluminum	R	1.4396	1.4161	20000	19560	ug/L	-2	10	
Calcium	R	15.590	15.798	20000	20080	ug/L	0	10	
Iron	R	12.816	12.973	20000	20090	ug/L	0	10	
Magnesium	R	2.1329	2.1666	20000	20330	ug/L	2	10	
Potassium	R	4.7191	4.8161	20000	19180	ug/L	-4	10	
Sodium	R	11.151	10.979	20000	19520	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3341134	-6.85

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470036 File : 110507r Time : 05-NOV-2007 10:24
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1339]	2.000	0.1170	ug/L	!ib
Boron	A	[16.67]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3563597	-0.64

!=warning ib=instrument blank

87445470036

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87445470048
Cal : 87445470001
Standards: S7554

File : 110507r
Caldate : 05-NOV-2007

IDF : 1.0
Time : 05-NOV-2007 11:03

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.037	5000	4981	ug/L	0	10	
Arsenic	A	17.609	19.079	5000	5273	ug/L	5	10	
Barium	A	437.01	445.38	5000	5250	ug/L	5	10	
Beryllium	A	3081.5	3190.2	500.0	524.5	ug/L	5	10	
Boron	A	151.55	163.33	5000	5200	ug/L	4	10	
Cadmium	A	217.73	223.84	5000	5189	ug/L	4	10	
Chromium	A	67.314	66.605	5000	4988	ug/L	0	10	
Cobalt	A	114.64	115.51	5000	4967	ug/L	-1	10	
Copper	A	407.69	411.15	5000	5036	ug/L	1	10	
Lead	A	41.632	42.397	5000	4948	ug/L	-1	10	
Manganese	A	1332.8	1313.4	5000	5154	ug/L	3	10	
Molybdenum	A	37.308	37.629	5000	5101	ug/L	2	10	
Nickel	A	38.218	39.118	5000	5051	ug/L	1	10	
Selenium	A	27.630	28.518	5000	4964	ug/L	-1	10	
Silver	A	451.37	471.17	1000	986.2	ug/L	-1	10	
Thallium	A	17.671	17.218	5000	4894	ug/L	-2	10	
Tin	A	22.675	23.707	5000	4994	ug/L	0	10	
Titanium	A	1200.8	1208.6	5000	5126	ug/L	3	10	
Vanadium	A	106.47	109.62	5000	5082	ug/L	2	10	
Zinc	A	96.127	81.528	5000	5079	ug/L	2	10	
Aluminum	R	1.4396	1.4669	20000	20260	ug/L	1	10	
Calcium	R	15.590	16.221	20000	20620	ug/L	3	10	
Iron	R	12.816	13.384	20000	20720	ug/L	4	10	
Magnesium	R	2.1329	2.2329	20000	20950	ug/L	5	10	
Potassium	R	4.7191	4.9538	20000	19720	ug/L	-1	10	
Sodium	R	11.151	11.362	20000	20200	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3408987	-4.96

87445470048

00362

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87445470050
Cal : 87445470001
File : 110507r
Caldate : 05-NOV-2007
IDF : 1.0
Time : 05-NOV-2007 11:10

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1270]	2.000	0.1170	ug/L	!ib
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	[1.137]	5.000	0.5779	ug/L	!ib
Molybdenum	A	[1.399]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	[4.805]	20.00	3.056	ug/L	!ib
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3575418	-0.32

!=warning ib=instrument blank

87445470050

: 00363

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470062 File : 110507r Time : 05-NOV-2007 11:43
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.534	5000	5063	ug/L	1	10	
Arsenic	A	17.609	19.537	5000	5399	ug/L	8	10	
Barium	A	437.01	445.11	5000	5247	ug/L	5	10	
Beryllium	A	3081.5	3187.5	500.0	524.1	ug/L	5	10	
Boron	A	151.55	162.71	5000	5181	ug/L	4	10	
Cadmium	A	217.73	223.02	5000	5170	ug/L	3	10	
Chromium	A	67.314	66.486	5000	4979	ug/L	0	10	
Cobalt	A	114.64	115.48	5000	4966	ug/L	-1	10	
Copper	A	407.69	410.34	5000	5026	ug/L	1	10	
Lead	A	41.632	43.074	5000	5027	ug/L	1	10	
Manganese	A	1332.8	1312.0	5000	5148	ug/L	3	10	
Molybdenum	A	37.308	37.478	5000	5080	ug/L	2	10	
Nickel	A	38.218	38.995	5000	5035	ug/L	1	10	
Selenium	A	27.630	29.229	5000	5087	ug/L	2	10	
Silver	A	451.37	468.80	1000	981.3	ug/L	-2	10	
Thallium	A	17.671	17.714	5000	5035	ug/L	1	10	
Tin	A	22.675	23.559	5000	4963	ug/L	-1	10	
Titanium	A	1200.8	1207.8	5000	5123	ug/L	2	10	
Vanadium	A	106.47	109.10	5000	5057	ug/L	1	10	
Zinc	A	96.127	81.062	5000	5050	ug/L	1	10	
Aluminum	R	1.4396	1.4385	20000	19870	ug/L	-1	10	
Calcium	R	15.590	16.123	20000	20490	ug/L	2	10	
Iron	R	12.816	13.290	20000	20580	ug/L	3	10	
Magnesium	R	2.1329	2.2265	20000	20890	ug/L	4	10	
Potassium	R	4.7191	4.8641	20000	19370	ug/L	-3	10	
Sodium	R	11.151	11.179	20000	19880	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3374409	-5.92

87445470062

00364

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470064 File : 110507r Time : 05-NOV-2007 11:50
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.534]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3584043	-0.07

!=warning ib=instrument blank

87445470064

: 00365

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470067 File : 110507r Time : 05-NOV-2007 11:58
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.9	ug/L	12	20	
Arsenic	A	500.0	560.6	ug/L	12	20	
Barium	A	500.0	530.5	ug/L	6	20	
Beryllium	A	500.0	541.8	ug/L	8	20	
Cadmium	A	1000	983.1	ug/L	-2	20	
Chromium	A	500.0	494.1	ug/L	-1	20	
Cobalt	A	500.0	444.0	ug/L	-11	20	
Copper	A	500.0	499.0	ug/L	0	20	
Lead	A	1000	937.2	ug/L	-6	20	
Manganese	A	500.0	464.3	ug/L	-7	20	
Molybdenum	A	500.0	511.2	ug/L	2	20	
Nickel	A	1000	907.5	ug/L	-9	20	
Selenium	A	500.0	496.1	ug/L	-1	20	
Silver	A	1000	1063	ug/L	6	20	
Thallium	A	500.0	428.7	ug/L	-14	20	
Titanium	A	20000	20180	ug/L	1		
Vanadium	A	500.0	528.3	ug/L	6	20	
Zinc	A	1000	996.6	ug/L	0	20	
Aluminum	R	500000	515900	ug/L	3		
Calcium	R	500000	493600	ug/L	-1		
Iron	R	200000	192600	ug/L	-4		
Magnesium	R	500000	507400	ug/L	1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2895693	-19.27

87445470067

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470069 File : 110507r Time : 05-NOV-2007 12:05
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.544	5000	5065	ug/L	1	10	
Arsenic	A	17.609	19.493	5000	5387	ug/L	8	10	
Barium	A	437.01	447.07	5000	5270	ug/L	5	10	
Beryllium	A	3081.5	3222.6	500.0	529.9	ug/L	6	10	
Boron	A	151.55	163.76	5000	5214	ug/L	4	10	
Cadmium	A	217.73	224.01	5000	5193	ug/L	4	10	
Chromium	A	67.314	66.788	5000	5002	ug/L	0	10	
Cobalt	A	114.64	116.02	5000	4989	ug/L	0	10	
Copper	A	407.69	410.31	5000	5026	ug/L	1	10	
Lead	A	41.632	43.261	5000	5049	ug/L	1	10	
Manganese	A	1332.8	1319.0	5000	5176	ug/L	4	10	
Molybdenum	A	37.308	37.585	5000	5095	ug/L	2	10	
Nickel	A	38.218	39.071	5000	5045	ug/L	1	10	
Selenium	A	27.630	29.160	5000	5075	ug/L	2	10	
Silver	A	451.37	472.09	1000	988.2	ug/L	-1	10	
Thallium	A	17.671	17.700	5000	5031	ug/L	1	10	
Tin	A	22.675	23.709	5000	4995	ug/L	0	10	
Titanium	A	1200.8	1213.4	5000	5147	ug/L	3	10	
Vanadium	A	106.47	109.48	5000	5075	ug/L	1	10	
Zinc	A	96.127	81.517	5000	5079	ug/L	2	10	
Aluminum	R	1.4396	1.4874	20000	20550	ug/L	3	10	
Calcium	R	15.590	16.778	20000	21320	ug/L	7	10	
Iron	R	12.816	13.852	20000	21450	ug/L	7	10	
Magnesium	R	2.1329	2.3381	20000	21940	ug/L	10	10	
Potassium	R	4.7191	5.0521	20000	20120	ug/L	1	10	
Sodium	R	11.151	11.557	20000	20550	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3344494	-6.75

87445470069

: 00367

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470071 File : 110507r Time : 05-NOV-2007 12:12
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	[0.5833]	5.000	0.5779	ug/L	!ib
Molybdenum	A	[1.706]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3534752	-1.45

!=warning ib=instrument blank

87445470071

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	110507r	ICALBLK				05-NOV-2007 08:30	1.0	1.0					
002	110507r	ICAL	CRIM08			05-NOV-2007 08:34	1.0	1.0				1	
003	110507r	ICAL	CS100			05-NOV-2007 08:38	1.0	1.0				2	
004	110507r	ICAL	CS1K			05-NOV-2007 08:41	1.0	1.0				3	
005	110507r	ICAL	CS10K			05-NOV-2007 08:44	1.0	1.0				4	
006	110507r	ICAL	CS100K			05-NOV-2007 08:47	1.0	1.0				5	
007	110507r	ICV				05-NOV-2007 08:53	1.0	1.0			5000	6	
008	110507r	ICB				05-NOV-2007 08:56	1.0	1.0			5000		
009	110507r	ICSA				05-NOV-2007 09:01	1.0	1.0			5000	7	10:AL=531691
010	110507r	ICSAB				05-NOV-2007 09:07	1.0	1.0			5000	8	5:AL=486901
011	110507r	SAMPLE	198921-002	131283	Miscel	05-NOV-2007 09:10	20.0	49.50			5000		1:FE=298405
012	110507r	SAMPLE	198929-007	131283	Soil	05-NOV-2007 09:13	10.0	47.62			5000		1:FE=240269
013	110507r	SAMPLE	198929-010	131283	Soil	05-NOV-2007 09:16	10.0	45.05			5000		
014	110507r	ICSAB				05-NOV-2007 09:19	1.0	1.0			5000	8	5:AL=496791
015	110507r	X	RINSE			05-NOV-2007 09:22	1.0						
016	110507r	BLANK	QC413589	131284	Soil	05-NOV-2007 09:26	1.0	50.0			5000		
017	110507r	BS	QC413590	131284	Soil	05-NOV-2007 09:30	1.0	50.0			5000		
018	110507r	BSD	QC413591	131284	Soil	05-NOV-2007 09:33	1.0	50.0			5000		
019	110507r	X	RINSE			05-NOV-2007 09:36	1.0						
020	110507r	CCV				05-NOV-2007 09:39	1.0	1.0			5000	9	
021	110507r	X	FLUSH			05-NOV-2007 09:42	1.0						
022	110507r	CCB				05-NOV-2007 09:46	1.0	1.0			5000		
023	110507r	MSS	198903-001	131284	Soil	05-NOV-2007 09:50	1.0	45.05	1		5000		1:FE=214998
024	110507r	MS	QC413592	131284	Soil	05-NOV-2007 09:52	1.0	47.17		1	5000		2:FE=216407
025	110507r	MSD	QC413593	131284	Soil	05-NOV-2007 09:54	1.0	48.08		4	5000		2:FE=228591
026	110507r	SER	QC413594	131284	Soil	05-NOV-2007 09:56	5.0	45.05		1	5000		
027	110507r	PDS	QC413595	131284	Soil	05-NOV-2007 09:59	1.0	45.05			5000	10 11	2:FE=235549
028	110507r	SAMPLE	198903-002	131284	Soil	05-NOV-2007 10:01	1.0	45.05			5000		5:FE=451360
029	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 10:03	1.0	47.17	2		5000		4:FE=365607
030	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 10:06	1.0	46.30	1		5000		2:FE=268314
31	110507r	?SAMPLE	198709-001			05-NOV-2007 10:08	1.0						

tds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

nalyst: _____ Date: 11/5/14

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 10:12	1.0	46.73		5000	3:MG=320813	
033	110507r	X	RINSE			05-NOV-2007 10:14	1.0					
034	110507r	CCV				05-NOV-2007 10:17	1.0	1.0		5000	9	
035	110507r	X	FLUSH			05-NOV-2007 10:21	1.0					
036	110507r	CCB				05-NOV-2007 10:24	1.0	1.0		5000		
037	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 10:28	1.0	49.50	1	5000	6:FE=649648	
038	110507r	SAMPLE	198841-001	131284	Miscel	05-NOV-2007 10:30	1.0	48.08		5000	1:FE=212461	
039	110507r	SAMPLE	198841-002	131284	Miscel	05-NOV-2007 10:33	1.0	45.45		5000	1:FE=226239	
040	110507r	SAMPLE	198841-003	131284	Miscel	05-NOV-2007 10:36	1.0	56.82		5000	3:FE=167173	
041	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 10:39	1.0	49.02		5000	3:FE=661648	
042	110507r	SAMPLE	198845-002	131284	Miscel	05-NOV-2007 10:43	1.0	45.45		5000	3:FE=452399	
043	110507r	SAMPLE	198852-001	131284	Miscel	05-NOV-2007 10:47	1.0	48.08		5000	2:FE=176098	
044	110507r	SAMPLE	198850-001	131284	Miscel	05-NOV-2007 10:50	1.0	71.43		5000	1:FE=202532	
045	110507r	SAMPLE	198850-002	131284	Miscel	05-NOV-2007 10:54	1.0	50.0		5000	2:FE=637998	
046	110507r	SAMPLE	198849-001	131284	Miscel	05-NOV-2007 10:56	1.0	45.05		5000	2:FE=1793655	
047	110507r	X	RINSE			05-NOV-2007 10:59	1.0					
048	110507r	CCV				05-NOV-2007 11:03	1.0	1.0		5000	9	
049	110507r	X	FLUSH			05-NOV-2007 11:06	1.0					
050	110507r	CCB				05-NOV-2007 11:10	1.0	1.0		5000		
051	110507r	SAMPLE	198848-001	131284	Miscel	05-NOV-2007 11:14	1.0	45.05		5000	2:FE=502731	
052	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:17	1.0	72.46	1	5000	3:FE=559436	
053	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:19	1.0	48.54	1	5000	4:CA=380474	
054	110507r	SAMPLE	198844-001	131284	Miscel	05-NOV-2007 11:21	1.0	100.0		5000		
055	110507r	SAMPLE	198844-002	131284	Miscel	05-NOV-2007 11:24	1.0	90.91		5000		
056	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 11:28	1.0	47.17		5000	3:FE=308922	
057	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 11:30	1.0	46.30	1	5000	2:FE=234718	
058	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 11:32	1.0	46.73		5000	3:MG=316139	
059	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 11:34	1.0	49.50		5000	6:FE=645974	
060	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 11:36	1.0	49.02		5000	3:FE=665009	
061	110507r	X	RINSE			05-NOV-2007 11:40	1.0					
062	110507r	CCV				05-NOV-2007 11:43	1.0	1.0		5000	9	

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	110507r	X	FLUSH			05-NOV-2007 11:47	1.0				
064	110507r	CCB				05-NOV-2007 11:50	1.0	1.0	5000		
065	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:54	1.0	72.46	5000		3:FE=592381
066	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:56	1.0	48.54	5000		4:CA=402689
067	110507r	ICSAB				05-NOV-2007 11:58	1.0	1.0	5000	8	5:AL=515891
068	110507r	X	RINSE			05-NOV-2007 12:02	1.0				
069	110507r	CCV				05-NOV-2007 12:05	1.0	1.0	5000	9	
070	110507r	X	FLUSH			05-NOV-2007 12:09	1.0				
071	110507r	CCB				05-NOV-2007 12:12	1.0	1.0	5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198880 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
198880-001	MET08	11/05/07 10:12	1.0	+		+	+	+	+	+	+	+		+	+	+	+	+	+	+
198880-001	MET08	11/05/07 11:32	1.0		+															
198880-001	MET04	11/06/07 16:47	1.0										+							
198880-001	MET16	11/07/07 13:00	50.0																	
198880-001	MET16	11/07/07 14:49	100.0																	
198880-001	MET16	11/07/07 17:53	100.0																	
198880-001	MET16	11/07/07 19:52	10.0																	
198880-002	MET08	11/05/07 10:28	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+
198880-002	MET08	11/05/07 11:34	1.0									+								
198880-002	MET04	11/06/07 16:50	1.0																	
198880-002	MET04	11/06/07 18:12	20.0										+							
198880-002	MET16	11/07/07 14:07	50.0																	
QC413589	MET08	11/05/07 09:26	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413590	MET08	11/05/07 09:30	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413591	MET08	11/05/07 09:33	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413592	MET08	11/05/07 09:52	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413593	MET08	11/05/07 09:54	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413594	MET08	11/05/07 09:56	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413595	MET08	11/05/07 09:59	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413907	MET04	11/06/07 16:31	1.0										+							
QC413908	MET04	11/06/07 16:34	1.0										+							
QC413909	MET04	11/06/07 16:37	1.0										+							
QC413910	MET04	11/06/07 16:41	5.0										+							
QC413911	MET04	11/06/07 16:43	1.0										+							
QC413912	MET04	11/06/07 16:45	1.0										+							
QC414074	MET16	11/07/07 12:34	5.0																	
QC414074	MET16	11/07/07 17:27	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414075	MET16	11/07/07 12:40	10.0																	
QC414075	MET16	11/07/07 17:33	10.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414076	MET16	11/07/07 12:47	10.0																	
QC414076	MET16	11/07/07 17:40	10.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198880 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN	
QC414077	MET16	11/07/07 13:12	50.0																		
QC414077	MET16	11/07/07 18:05	100.0												+					+	
QC414077	MET16	11/07/07 20:04	10.0	+	+	+	+	+	+	+	+	+		+		+	+	+	+		
QC414078	MET16	11/07/07 13:17	50.0																		
QC414078	MET16	11/07/07 18:11	100.0												+					+	
QC414078	MET16	11/07/07 20:11	10.0	+	+	+	+	+	+	+	+	+		+		+	+	+	+		
QC414079	MET16	11/07/07 13:06	250.0																		
QC414079	MET16	11/07/07 17:59	500.0												+						
QC414079	MET16	11/07/07 19:58	50.0	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	
QC414080	MET16	11/07/07 13:23	50.0																		
QC414080	MET16	11/07/07 18:17	100.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC414080	MET16	11/07/07 20:18	10.0																		

Curtis & Tompkins Laboratories Sample Preparation Summary 02-NOV-2007 20:11

Batch Number : 131284
Date Extracted: 02-NOV-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198841-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198841-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198841-003			Hirst & Chanler	Miscell.	.88	g	50	56.818182	1					PB		
198844-001			Hirst & Chanler	Miscell.	.5	g	50	100.000000	1					PB		
198844-002			Hirst & Chanler	Miscell.	.55	g	50	90.909091	1					PB		
198845-001			Hirst & Chanler	Miscell.	1.02	g	50	49.019608	1					PB		
198845-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198847-001			Hirst & Chanler	Miscell.	.69	g	50	72.463768	1					PB		
198847-002			Hirst & Chanler	Miscell.	1.03	g	50	48.543689	1					PB		
198848-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198849-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198850-001			Hirst & Chanler	Miscell.	.7	g	50	71.428571	1					PB		
198850-002			Hirst & Chanler	Miscell.	1	g	50	50.000000	1					PB		
198852-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198880-001			Mactec, Inc.	Soil	1.07	g	50	46.728972	1					T26/ICP		
198880-002			Mactec, Inc.	Soil	1.01	g	50	49.504950	1					T26/ICP		
198903-001			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-002			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-003			Mactec, Inc.	Soil	1.06	g	50	47.169811	1					T26/ICP		
198903-006			Mactec, Inc.	Soil	1.08	g	50	46.296296	1					T26/ICP		
QC413589	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC413590	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413591	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413592	MS	of 198903-001		Soil	1.06	g	50	47.169811	1		.5	.5		ICAP		
QC413593	MSD	of 198903-001		Soil	1.04	g	50	48.076923	1		.5	.5		ICAP		
QC413594	SER	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		
QC413595	PDS	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		

Prep Chemist: Michael C Brock 11/2/07 Reviewed By: [signature] Date: 11/5/07

Relinquished By: Michael C Brock 11/2/07 Received By: [signature] Date: 11/5/07

SDG TH

1. **Soil Digestion for ICP & ICP-MS** — Curtis & Tompkins, Ltd.

7:00PM

LIMS Batch #: 131284
Date Digested: 11/2/07
Digested by: MCB TTT

Digestion Method
☑ EPA 3050b
☐ _____

BK 2606
Page 19

	Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLANK	Ø	50	Y	
	BS	↓	↓	↓	
	BSD	↓	↓	↓	
	MS-903-001 ~~G~~ N	1.06			
5	MSD-903-001 ↓	1.04			
	198903-001 ↓	1.11			
	↓ -002 G	1.11			
	-003 ↓	1.06			
	↓ -006 ↓	1.08			
10	198880-001 G	1.07			
	↓ -002 A	1.01			
	198841-001	1.04			
	-002	1.10			
	↓ -003	.88			
15	198845-001 A	1.02			
	↓ -002	1.10			
	198852-001	1.04			
	198850-001	0.70			
	↓ -002	1.00			
20	198849-001	1.11			
	198848-001	1.11			
	198847-001	.69			
	↓ -002	1.03			
	198844-001	.50			
	↓ -002 ↓	.55	↓	↓	

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	MCB TTT 11/2/07
.5 mL of spike solution was added to all spikes	S6918	↓
	S6919	
1:1 HNO3	E09043 J.T. BAKER	
concentrated HNO3	E26035	
3mL 30% hydrogen peroxide	E26A05	
concentrated HCl	E33033	
☑ filtered thru' Whatman # 541	~~G19A0096~~ H11206690	↓
Relinquished to ICP group		

Mechad Schacht 11/2/07
Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/5/07
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET04
alnum : 47447371001
nits : ug/L

Date : 06-NOV-2007 16:11
X Axis : R

Reviewer : ---
Type : SOIL

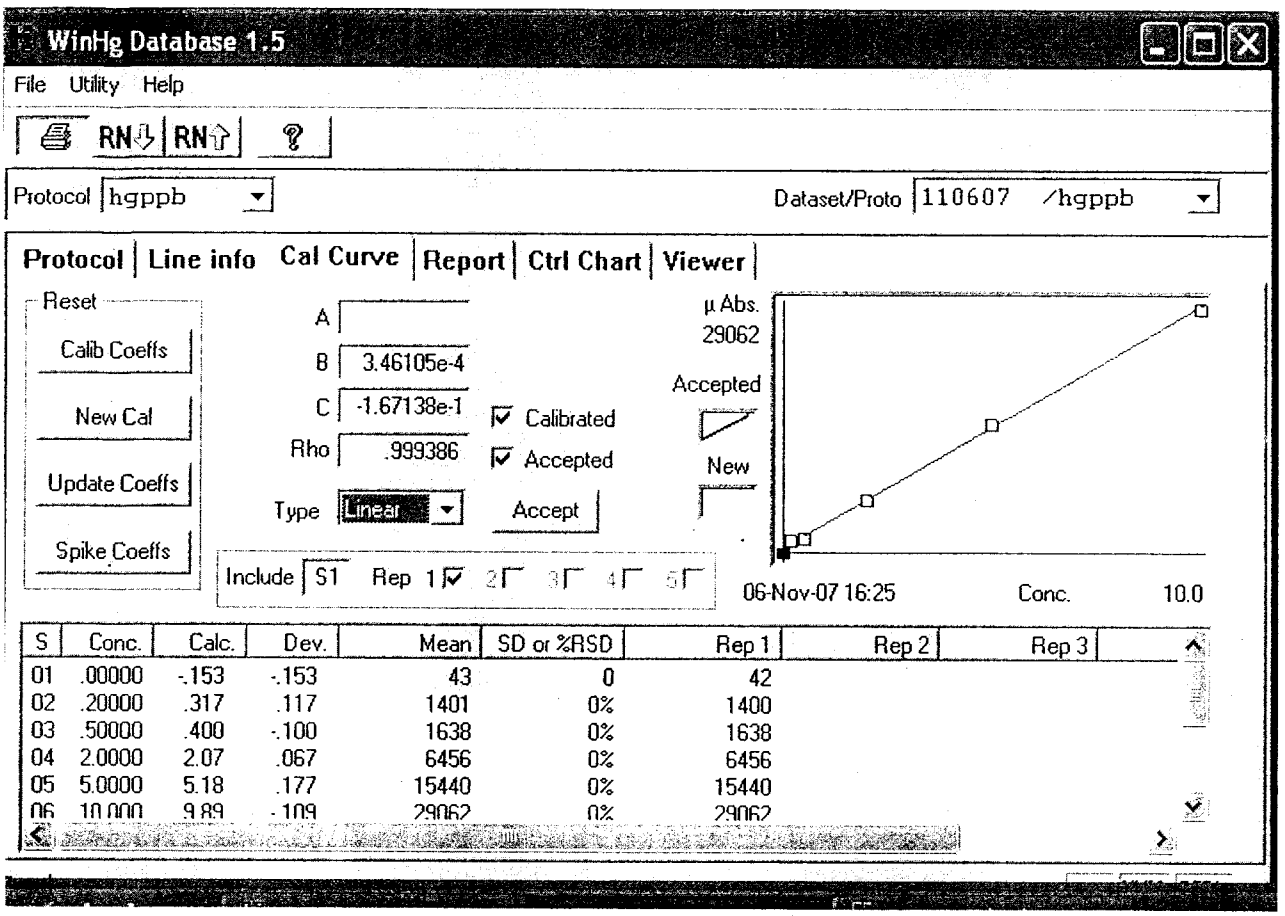
evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	131361	47447371001	STD03REP1	06-NOV-2007 16:11	S7606 (200X)
L2	131361	47447371002	STD04REP1	06-NOV-2007 16:13	S7606 (50X)
L3	131361	47447371003	STD05REP1	06-NOV-2007 16:15	S7606 (20X)
L4	131361	47447371004	STD06REP1	06-NOV-2007 16:17	S7606 (10X)
L5	131361	47447371006	STD02REP1	06-NOV-2007 16:24	S7606 (500X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	3276.0	3228.0	3088.0	2906.2	7000.0	LINR	-0.1671	3.46E-4		3899.6	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.500	-20	2.000	3	5.000	4	10.00	-1	0.200	59

ment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

e 1 of 1


WinHg Database 1.5
File Utility Help
RN
RN
Protocol hgppb
Dataset/Proto 110607 /hgppb
Protocol
Line info
Cal Curve
Report
Ctrl Chart
Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 3.46105e-4
C -1.67138e-1
Rho .999386
Calibrated
Accepted
Type Linear
Accept
µ Abs.
29062
Accepted
New
Include S1 Rep 1 2 3 4 5
06-Nov-07 16:25
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.153 -.153 43 0 42
02 .20000 .317 .117 1401 0% 1400
03 .50000 .400 -.100 1638 0% 1638
04 2.0000 2.07 .067 6456 0% 6456
05 5.0000 5.18 .177 15440 0% 15440
06 10.000 9.89 -.109 29062 0% 29062

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 3 Rep: 1				Seq: 3		16:11:19 06 Nov 07			HG
Hg	.500	ppb	1638						
		Bkgd 1	15945001						=
*** Standard: 4 Rep: 1				Seq: 4		16:13:24 06 Nov 07			HG
Hg	2.00	ppb	6456						
		Bkgd 1	15945932						=
*** Standard: 5 Rep: 1				Seq: 5		16:15:41 06 Nov 07			HG
Hg	5.00	ppb	15440						
		Bkgd 1	15941873						=
*** Standard: 6 Rep: 1				Seq: 6		16:17:50 06 Nov 07			HG
Hg	10.0	ppb	29062						
		Bkgd 1	15937373						=
*** Standard: 1 Rep: 1				Seq: 7		16:20:04 06 Nov 07			HG
Hg	.000	ppb	42						
		Bkgd 1	15935049						=
*** Standard: 2 Rep: 1				Seq: 9		16:24:12 06 Nov 07			HG
Hg	.200	ppb	1400						
		Bkgd 1	15941012						=
*** Check Standard: 2			Ck2s7608	Seq: 10		16:27:00 06 Nov 07			HG
Line Flag			Intensities						
Hg			15229						
		Bkgd 1	15939361						=
*** Check Standard: 1			Ck1ICB	Seq: 11		16:29:03 06 Nov 07			HG
Line Flag			Intensities						
Hg			66						
		Bkgd 1	15933162						=
*** Sample ID: qc413907				Seq: 12		16:31:04 06 Nov 07			HG
			131361,1						
Hg	-.112	ppb	158						
		Bkgd 1	15935493						=

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	ICAL	STD03REP1				06-NOV-2007 16:11	1.0	1.0									
131361	ICAL	STD04REP1				06-NOV-2007 16:13	1.0	1.0									
131361	ICAL	STD05REP1				06-NOV-2007 16:15	1.0	1.0									
131361	ICAL	STD06REP1				06-NOV-2007 16:17	1.0	1.0									
131361	ICALBLK	STD01REP1				06-NOV-2007 16:20	1.0	1.0									
131361	ICAL	STD02REP1				06-NOV-2007 16:24	1.0	1.0									
131361	ICV					06-NOV-2007 16:27	1.0	1.0	2	5.000	47447371001	5.100		ug/L	102		
131361	ICB					06-NOV-2007 16:29	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	BLANK	QC413907		131361	Soil	06-NOV-2007 16:31	1.0	100.0			47447371001	ND	0.020	mg/Kg			u
131361	BS	QC413908		131361	Soil	06-NOV-2007 16:34	1.0	100.0		0.5000	47447371001	0.5160	0.020	mg/Kg	103		u
131361	BSD	QC413909		131361	Soil	06-NOV-2007 16:37	1.0	100.0		0.5000	47447371001	0.5210	0.020	mg/Kg	104	1	u
131361	MSS	198956-001		131361	Soil	06-NOV-2007 16:39	1.0	86.21			47447371001	0.044	0.020	mg/Kg			u
131361	SER	QC413910	198956-001	131361	Soil	06-NOV-2007 16:41	5.0	86.21			47447371001	ND	0.086	mg/Kg		--	u
131361	MS	QC413911	198956-001	131361	Soil	06-NOV-2007 16:43	1.0	86.21		0.4310	47447371001	0.5078	0.020	mg/Kg	108		u
131361	MSD	QC413912	198956-001	131361	Soil	06-NOV-2007 16:45	1.0	106.4		0.5319	47447371001	0.6117	0.021	mg/Kg	107	1	u
131361	SAMPLE	198880-001		131361	Soil	06-NOV-2007 16:47	1.0	86.21			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 16:50	1.0	84.75			47447371001	14 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198947-001		131361	Soil	06-NOV-2007 16:52	1.0	84.75			47447371001	0.23	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 16:54	1.0	1.0	3	2.500	47447371001	2.490		ug/L	100		
131361	CCB					06-NOV-2007 16:57	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-003		131361	Soil	06-NOV-2007 16:59	1.0	98.04			47447371001	0.043	0.020	mg/Kg			u
131361	SAMPLE	198956-004		131361	Soil	06-NOV-2007 17:01	1.0	87.72			47447371001	0.078	0.020	mg/Kg			u
131361	SAMPLE	198956-005		131361	Soil	06-NOV-2007 17:03	1.0	102.0			47447371001	0.075	0.020	mg/Kg			u
131361	SAMPLE	198956-006		131361	Soil	06-NOV-2007 17:06	1.0	94.34			47447371001	0.073	0.020	mg/Kg			u
131361	SAMPLE	198956-007		131361	Soil	06-NOV-2007 17:08	1.0	73.53			47447371001	0.076	0.020	mg/Kg			u
131361	SAMPLE	198956-008		131361	Soil	06-NOV-2007 17:10	1.0	94.34			47447371001	0.0044 J	0.020	mg/Kg			u
131361	SAMPLE	198956-009		131361	Soil	06-NOV-2007 17:12	1.0	90.91			47447371001	0.0097 J	0.020	mg/Kg			u
131361	SAMPLE	198956-010		131361	Soil	06-NOV-2007 17:14	1.0	102.0			47447371001	0.014 J	0.020	mg/Kg			u
131361	SAMPLE	198956-012		131361	Soil	06-NOV-2007 17:17	1.0	102.0			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-013		131361	Soil	06-NOV-2007 17:19	1.0	78.13			47447371001	0.011 J	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 17:21	1.0	1.0	4	5.000	47447371001	5.010		ug/L	100		
131361	CCB					06-NOV-2007 17:23	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-014		131361	Soil	06-NOV-2007 17:26	1.0	89.29			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-015		131361	Soil	06-NOV-2007 17:28	1.0	106.4			47447371001	0.015 J	0.021	mg/Kg			u
131361	SAMPLE	198957-010		131361	Soil	06-NOV-2007 17:30	1.0	84.75			47447371001	0.099	0.020	mg/Kg			u
131361	SAMPLE	198957-011		131361	Soil	06-NOV-2007 17:32	1.0	96.15			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 17:35	1.0	89.29			47447371001	21 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 17:37	1.0	74.63			47447371001	47 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 18:12	20.0	84.75			47447371001	11	0.34	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 18:23	50.0	89.29			47447371001	17	0.89	mg/Kg			u
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:31	100.0	74.63			47447371001	800 >LR	1.5	mg/Kg			>LR cal
131361	CCV					06-NOV-2007 18:33	1.0	1.0	5	7.500	47447371001	7.160		ug/L	95		
131361	CCB					06-NOV-2007 18:36	1.0	1.0			47447371001	ND	0.20	ug/L			

Stds used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 11/6/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:42	2000	74.63			47447371001	590	30	mg/Kg			u
131361	CCV					06-NOV-2007 18:45	1.0	1.0	5	7.500	47447371001	7.420		ug/L	99		
131361	CCB					06-NOV-2007 18:47	1.0	1.0			47447371001	ND	0.20	ug/L			

s used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
ds used: >UR=overrange b=noncompliant calc=check quantitation u=use

yst: _____ Date: 11/6/07

Curtis & Tompkins Laboratories Sample Preparation Summary 06-NOV-2007 18:53

Batch Number : 131361
Date Extracted: 06-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7606
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198880-001			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		
198880-002			Mactec, Inc.	Soil	.59	g	50	84.745763	1					T26/HG		
198947-001			TRC Solutions	Soil	.59	g	50	84.745763	1					T26/HG		
198956-001			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		MSS
198956-003			Mactec, Inc.	Soil	.51	g	50	98.039216	1					T26/HG		
198956-004			Mactec, Inc.	Soil	.57	g	50	87.719298	1					T26/HG		
198956-005			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-006			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
198956-007			Mactec, Inc.	Soil	.68	g	50	73.529412	1					T26/HG		
198956-008			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
198956-009			Mactec, Inc.	Soil	.55	g	50	90.909091	1					T26/HG		
198956-010			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-012			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-013			Mactec, Inc.	Soil	.64	g	50	78.125000	1					T26/HG		
198956-014			Mactec, Inc.	Soil	.56	g	50	89.285714	1					T26/HG		
198956-015			Mactec, Inc.	Soil	.47	g	50	106.382979	1					T26/HG		
198957-010			Northgate Environmental Manage	Soil	.59	g	50	84.745763	1					T26/HG		
198957-011			Northgate Environmental Manage	Soil	.52	g	50	96.153846	1					T26/HG		
198957-012			Northgate Environmental Manage	Soil	.56	g	50	89.285714	1					T26/HG		
198965-001			ConocoPhillips Company	Miscell.	.67	g	50	74.626866	1					T26/HG		
QC413907	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC413908	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC413909	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC413910	SER	of 198956-001		Soil	.58	g	50	86.206897	1					HG		
QC413911	MS	of 198956-001		Soil	.58	g	50	86.206897	1		2.5			HG		
QC413912	MSD	of 198956-001		Soil	.47	g	50	106.382979	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/6/07

Relinquished By: _____ Received By: _____ Date: 11/6/07

198956

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 131361

Date Digested: 111607

Digested by: JXM

Digestion Method

☒ EPA 7471A

☐ _____

BK 2605

Page 16

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
198860-001 G	0.58	50.0	Y	
↓ 02 A	0.59	↓	↓	
198947-001	0.59			
198965-001 ↓	0.67			
5 196956-001 K	0.56			MSS
03 A	0.51			
04	0.57			
05	0.49			
06	0.53			
10 07	0.68			
08	0.53			
09	0.55			
10	~~0.55~~ 0.44 JXM 111607			
12	0.49			
15 13	0.61			
14	0.56			
↓ 15	0.47			
198957-010	0.59			
11	0.52			
20 ↓ 12 ↓	0.56			
MB ~~QC413907~~ QC413907	0.50			
BS QC413908	↓			
BSD 09	↓			
MS 11	0.58			
MSD ↓ 12	0.47	↓	↓	

	Reagent ID/ LIMS# / Time	Initials / Date
25 mL of spike solution was added to all spikes	S7606	JXM 111607
ICAL Source WS#	↓	↓
ICV / CCV WS#	S7608/09/10/11	
Digestion of Samples & Standards: Time ON / Temperature ON	12:30/95C	
Time OFF/ Temperature OFF	13:00/95C	
Aqua Regia Acids (HNO3+ HCl)	AR 110607	
5% $KMnO_4$	K 103107	
NaCl.hydroxylamine hydrochloride	H_y 101807	
Stannous Chloride	$SnCl_2$ 110507	
☒ filtered thru' 0.45 um syringe filter	R7CN28662	↓

11/6/07

Prep Chemist / Date

Continued from page _____

Continued on page _____

11/6/07

Reviewed by / Date

Curtis & Tompkins,

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	131431
Matrix:	Soil	Sampled:	10/31/07
Units:	%	Received:	11/01/07
Diln Fac:	1.000	Analyzed:	11/07/07

Field ID	Lab ID	Result	RL
1065EX357[4.0]	198880-001	16	1
1065EX358[4.0]	198880-002	10	1

RL= Reporting Limit

74.0

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	198880	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	1065EX357[4.0]	Diln Fac:	1.000
Type:	SDUP	Batch#:	131431
MSS Lab ID:	198880-001	Sampled:	10/31/07
Lab ID:	QC414195	Received:	11/01/07
Matrix:	Soil	Analyzed:	11/07/07

MSS Result	Result	RL	RPD	Lim
16.22	15.92	1.000	2	15

RL= Reporting Limit
RPD= Relative Percent Difference

75.0

Percent Moisture Summary Report

Batch: 131431
Date: 11/07/07
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
198880-001	10.9998	19.2431	17.9063	84	16
198880-002	11.0921	19.4024	18.5900	90	10
198929-002	10.9153	17.0195	16.4350	90	10
198929-003	11.3461	19.1003	17.2628	76	24
198929-005	11.3402	19.1592	18.2527	88	12
198929-006	10.9152	17.1322	15.6172	76	24
198929-007	11.4699	17.0497	16.6733	93	7
198929-008	11.3727	19.5324	18.2493	84	16
198929-009	11.2339	19.9987	18.8392	87	13
198929-010	11.3633	17.4999	17.0581	93	7
QC414195	11.3672	18.8760	17.6808	84	16
of 198880-001			RPD:	0.4%	1.9%

PROJECT Moisture Notebook BK 2603

11-07-07

~~B#~~ 131431

Sample	SL	DISH #	DISH wt	Sample wt.	Final wt.	COMMENTS
BLK	QC	CT23	11.2363		11.2370	
198880-001	A	VAN	10.9998	19.7431	17.9063	
↓ -002	A	B114	11.0921	19.4024	15.3900	Rocks
198929-002	A	DEV	10.9153	17.0195	16.4350	
-003	↓	A05	11.3461	19.1003	17.2628	
-005	B	A04	11.3402	19.1592	18.2527	
-006	↓	H75	10.9152	17.1322	15.672	
-007	A	B20	11.4699	17.0497	16.6733	
-008		K03	11.3727	19.5524	18.2493	
-009		E07	11.2339	19.9987	18.5392	
-010		C24	11.3633	17.4999	17.0581	
198880-001 SDUP	G	A02	11.3672	18.5760	17.6503	

Time IN: 5:30PM
OUT: 10AM
oven temp: 105C

11-7-07 11/8/07

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131431
Date Started: 07-NOV-2007
Batched by : Victor Vergara

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
198880-001		Mactec, Inc.	Soil	MOISTURE	08-NOV-2007
198880-002		Mactec, Inc.	Soil	MOISTURE	08-NOV-2007
198929-002		Northgate Environm	Soil	MOISTURE	08-NOV-2007
198929-003		Northgate Environm	Soil	MOISTURE	08-NOV-2007
198929-005		Northgate Environm	Soil	MOISTURE	08-NOV-2007
198929-006		Northgate Environm	Soil	MOISTURE	08-NOV-2007
198929-007		Northgate Environm	Soil	MOISTURE	08-NOV-2007
198929-008		Northgate Environm	Soil	MOISTURE	08-NOV-2007
198929-009		Northgate Environm	Soil	MOISTURE	08-NOV-2007
198929-010		Northgate Environm	Soil	MOISTURE	08-NOV-2007
QC414195	SDUP of 198880-001		Soil	MOISTURE	

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	HO	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	105°C
9-27-07	VV	105°C
9-28-07	VV	103°C
9-29-07	HO	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HO	105°C
10-7-07	HO	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HO	104°C
10-14-07	HO	104°C
10-15-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HO	105°C
10-21-07	HO	105°C
10-22-07	VV	103°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	HO	105°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	HO	104°C
11-1-07	VV	103°C
11-2-07	VV	104°C
11-3-07	HO	105°C
11-4-07	HO	105°C

Date	Initials	Temp (*C)
11-5-07	VV	103°C
11-6-07	VV	104°C
11-07-07	VV	103°C
11-8-07	VV	105°C

METTLER AE-2000

SHEET 2

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	MAINT SET
10-19-07	0.2000	1.0000	10.0000	50.0000	VV	35295
10-20-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-21-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-22-07	0.2000	1.0000	10.0000	50.0000	VV	35295
10-23-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-24-07	0.2000	1.0000	10.0000	50.0000	VV	35295
10-25-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-27-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-29-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-30-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-31-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-1-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-2-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-3-07	0.2000	1.0000	10.0000	49.9999	VV	35298
11-4-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-5-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-6-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-7-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-8-07	0.2000	1.0000	10.0000	50.0000	VV	35298

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 198903
ANALYTICAL REPORT

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065 Presidio-Excavation 3
Petaluma, CA 94954	Level : III

Sample ID	Lab ID
1065EX359[4.0]	198903-001
1065EX360[4.0]	198903-002
DUP110107	198903-003
1065EX360RB361	198903-004
TB110107	198903-005
1065EX361[4.5]	198903-006
1065EX362[5.5]	198903-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 11/19/2007
Project Manager

Signature: _____ Date: 11/21/2007
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198903**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio-Excavation 3**
Request Date:	**11/01/07, 11/06/07**
Samples Received:	**11/01/07**

This hardcopy data package contains sample and QC results for five soil samples and two water samples, requested for the above referenced project on 11/01/07 and 11/06/07. The samples were received on ice and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Water:
No analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:
5035 samples not analyzed within 48 hours were frozen. High surrogate recoveries were observed for trifluorotoluene (FID) in the MS/MSD for batch 131434; the corresponding bromofluorobenzene (FID) surrogate recoveries were within limits, and the parent sample was not a project sample. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 131365; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:
Low recovery was observed for diesel C12-C24 in the MSD of 1065EX359[4.0] (lab # 198903-001); the LCS was within limits, and the associated RPD was within limits. Low recoveries were observed for diesel C12-C24 in the MS/MSD for batch 131296; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. Diesel C12-C24 was detected between the MDL and the RL in the method blank for batch 131296. DUP110107 (lab # 198903-003) was diluted due to the dark, viscous nature of the sample extract. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:
Matrix spikes were not performed for this analysis due to insufficient sample volume. Acetone, benzene, and methylene chloride were detected between the MDL and the RL in the method blank for batch 131356; these analytes were not detected in samples at or above the RL. Methylene chloride was detected between the MDL and the RL in 1065EX360RB361 (lab # 198903-004); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:
5035 samples not analyzed within 48 hours were frozen. Low responses were

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198903**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio-Excavation 3**
Request Date:	**11/01/07, 11/06/07**
Samples Received:	**11/01/07**

Volatile Organics by GC/MS (EPA 8260B) Soil:
observed for 1,2-dibromo-3-chloropropane and naphthalene in the CCV analyzed 11/02/07 09:15 and the CCV analyzed 11/07/07 08:36; these analytes met minimum response criteria. Acetone and methylene chloride were detected between the MDL and the RL in the method blank for batch 131244 and the method blank for batch 131403; these analytes were not detected in samples at or above the RL. Methylene chloride was detected between the MDL and the RL in 1065EX362[5.5] (lab # 198903-007); this analyte is a common laboratory contaminant. 1065EX362[5.5] (lab # 198903-007) was not diluted; the low sample weight is due to 5035 packaging. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Water:
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Soil:
High responses were observed for benzo(k)fluoranthene and dibenz(a,h)anthracene in the CCV analyzed 11/08/07 18:55. These analytes were not detected at or above the RL in the associated method blank. 1065EX360[4.0] (lab # 198903-002) and DUP110107 (lab # 198903-003) were diluted due to the amber color of the sample extracts. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A) Water:
No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7471A) Soil:
Low recoveries were observed for antimony in the MS/MSD of 1065EX359[4.0] (lab # 198903-001); the BS/BSD were within limits, the associated RPD was within limits, and the post digest spike was within limits. High recoveries were observed for copper, lead, and zinc; the BS/BSD were within limits, the associated RPDs were within limits, and the post digest spike was within limits. High recoveries were observed for mercury in the MS/MSD for batch 131359; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. Low recoveries were observed for mercury in the MS/MSD of 1065EX359[4.0] (lab # 198903-001); the BS/BSD were within limits, and the associated RPD was within limits. Low recoveries were observed for many analytes in the MS/MSD for batch 131447; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. High recoveries were observed for

#
94.0

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**198903**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio-Excavation 3**
Request Date:	**11/01/07, 11/06/07**
Samples Received:	**11/01/07**

Metals (EPA 6010B, EPA 6020, and EPA 7471A) Soil:

nickel and zinc; the BS/BSD were within limits, and the associated RPDs were within limits. Response exceeding the instrument's linear range was observed for barium in the MS for batch 131447. High % differences were observed for many analytes in the serial dilution for batch 131359, the serial dilution for batch 131447, and the serial dilution of 1065EX359[4.0] (lab # 198903-001). Many analytes were detected between the MDL and the RL in the method blank for batch 131284 and the method blank for batch 131447; these analytes were either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):

High RPD was observed for moisture, percent in the SDUP of 1065EX362[5.5] (lab # 198903-007). No other analytical problems were encountered.

#
94.0

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3823

198903

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Excavation 3
JOB NO.: 4088
SAMPLERS (SIGNATURE): Scott Bal
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 11/1/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) including 1,2-DCA; TPHg (8015M); TPHd+TPHmo-w-silica gel (8015M); CAMs (6010-6020); Title 22 Metals	FOR LAB USE ONLY
~~1305~~	X		SO	1065EX359[4.0]	~~8~~15 S~~8~~W-4.0 SW	sample + MS/MSD	14	X X X X X	
~~1335~~	X		SO	1065EX360[4.0]	~~11~~11515W-4.0 SW		7	X X X X X	
~~1330~~	X		SO	DUP110107	11515W-4.0 SW		7	X X X X X	
~~[illegible]~~			~~SO~~	~~1065EX361[4.5]~~	~~13535W-4.5 SW~~		~~7~~	~~X X X X X~~	
1420			W	1065EX360RB361	EB		12	X X X X X	
NA			W	TB 110107	TB		2	X X	
1440	X		SO	1065EX361[4.5]	13535W-4.5 SW		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
Scott Bal	11/1/07 1600	[illegible]	11/1/07 1600			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

F1008 (05/00)

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: x Client Request By: M.Heassler Date/Time: 11/6/07 20:03 Initials: SES
Login Review Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
198903-007		1065EX362[5.5]	Soil	Add	ETVH, E8260, TEHM	11/13
					8270-SIM, Moisture	
					T26/ICP, T26/HG	

5555

Steve Stanley

From: "Heassler, Mary Jo" <MHeassler@mactec.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Carlyon, Kristen" <KACARLYON@mactec.com>; "Evans, Kathleen" <KKEvans@mactec.com>
Sent: Tuesday, November 06, 2007 1:06 AM
Attach: COC_11_01_07.jpg
Subject: RE: 4084075115 - C&T Login Summary (198903)

Please analyze sample 1065EX362[5.5]. Please see attached revised COC

—Original Message—
From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Mon 11/5/2007 3:50 PM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Evans, Kathleen; Hart, Mary; Albrecht, Frederic
Subject: 4084075115 - C&T Login Summary (198903)

NOTE: An extra sample was received that was not listed on the COC. The sample ID is 1065EX362[5.5]; this sample is currently logged in "on hold". If you would like this sample analyzed, please advise ASAP.

C&T Login Summary for 198903

Project: 4084075115
Site: Bldg 1065 Presidio-Excavation 3
Lab Login #: 198903
Report Due: 11/08/07
PO#: 2007-01797
C&T Proj Mgr: Steve Stanley
Report To: Mactec, Inc.

5341 Old Redwood Hwy

Suite 300

Petaluma, CA 94954

ATTN: Mary Jo Heassler

(707) 793-3800
Bill To: Mactec, Inc.

1105 Sanctuary Parkway

Suite 300

Alpharetta, GA 30004

ATTN: Account Payable Dept

(415) 278-2108

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
1065EX359[4.0]	001	11/01	11/01				
					3823		ICP Okay for Bldg 1065; PAHs=8270-SIM, J to MDL;Metals=T26 MET unless listed singly; S.Gel on

MACTEC

CHAIN OF CUSTODY RECORD

198903

3323

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION
NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Excavation 3
JOB NO.: 4088
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRC
SAMPLING DATE: 11/1/07

	TIME	GRAB	COMP	MATRIX*	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES (including preservation) VOC (8260B) TPHg (8015M) TPHd-TPHmo-silica gel (8015M) PAHs (8270-SIM) Title 22 Metals (6010/7000/7470)	FOR LAB USE ONLY
1	1305	X		SO	1065EX359[4.0]	15 8S 5W-4.0 SW	Sample + MS/MSD	14	X X X X X X	
2	1330	X		SO	1065EX360[4.0]	11S 15W- 4.0 SW		7	X X X X X X	
3	1335	X		SO	DUP110107	11S 15W- 4.0 SW		7	X X X X X X	
	[illegible]				[illegible]	[illegible]		7	X X X X X X	
4	1420			W	1065EX360RB3rd	EB		12	X X X X X X	
5	NA			W	TB 110107	TB		2	X X	
6	1440	X		SO	1065EX361[4.5]	13 5S 5W -4.5 SW		7	X X X X X X	
	1505			SO	1065EX362[5.5]	11S-20W			X X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	11/1/07 1600		11/1 1600			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

60009

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 198903 Date Received: 11/1 Number of Coolers: 1
Client: MACTEC Project: Building 1065 - Excavation 3

A. Preliminary Examination Phase
Date Opened: 11/1 By (print): Ken Wong (sign)

1. Did cooler come with a shipping slip (airbill, etc.)? YES (NO)
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? YES (NO)
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO NA
4. Were custody papers dry and intact when received? (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? (YES) NO
6. Did you sign the custody papers in the appropriate place? (YES) NO
7. Was project identifiable from custody papers? (YES) NO
   If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: bags on ice
9. If required, was sufficient ice used? Samples should be <=6 degrees C. (YES) NO
   Type of ice: Wet Temperature: no temp blank, cold on arrival.
10. Were Encore sampling devices present in the cooler? (YES) NO
    If YES, enter time they were transferred to the freezer 16:45

B. Login Phase
Date Logged In: 11/01/07 By (print): M. VILLANUEVA (sign)

1. Did all bottles arrive unbroken? (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? (YES) NO
3. Did bottle labels agree with custody papers? YES (NO)
4. Were appropriate containers used for the tests indicated? (YES) NO
5. Were correct preservatives added to samples? (YES) NO
6. Was sufficient amount of sample sent for tests indicated? (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below. YES (NO)
8. Was the client contacted concerning this sample delivery? YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:
B7 - 1 VOA for TB 11/01/07.
B3: REC'D SAMPLES NOT ON COC, ID # 1065EX362[5.5] SOIL SAMPLES & ENCORE & 1 SLEEVE, LOGGED ON HOLD.

TPH-PURGEABLE HYDROCARBONS IN WATER

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	131223
Units:	ug/L	Sampled:	11/01/07
Diln Fac:	1.000	Received:	11/01/07

Field ID: 1065EX360RB361 Lab ID: 198903-004
Type: SAMPLE Analyzed: 11/02/07

Analyte	Result	RL	MDL
Gasoline C7-C12	19 J	50	14

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	65-135
Bromofluorobenzene (FID)	94	65-135

Field ID: TB 110107 Lab ID: 198903-005
Type: SAMPLE Analyzed: 11/02/07

Analyte	Result	RL	MDL
Gasoline C7-C12	16 J	50	14

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	65-135
Bromofluorobenzene (FID)	96	65-135

Type: BLANK Analyzed: 11/01/07
Lab ID: QC413362

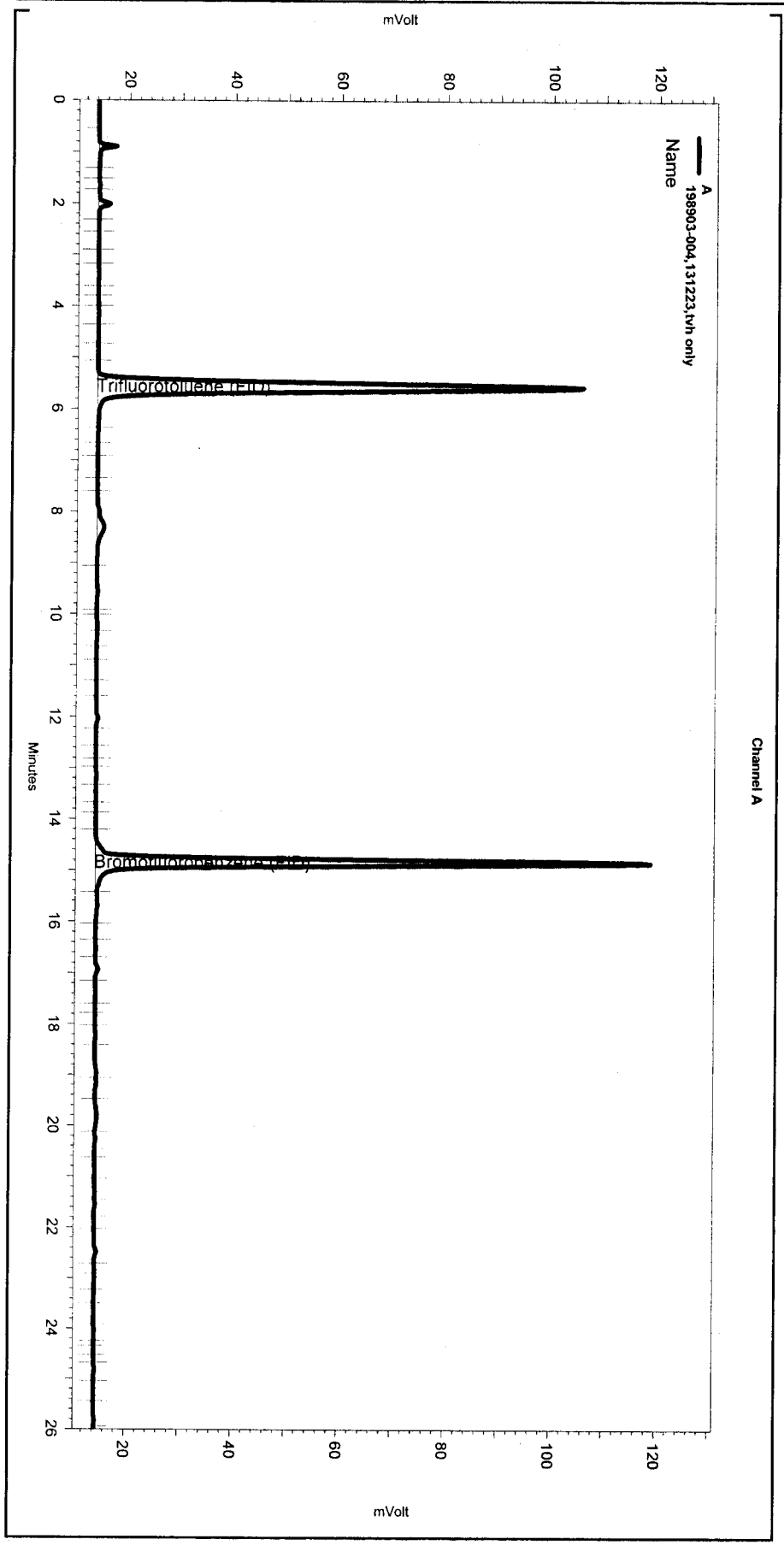
Analyte	Result	RL	MDL
Gasoline C7-C12	ND	50	14

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	65-135
Bromofluorobenzene (FID)	90	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\305.seq
Sample Name: **198903-004,131223,tvh only**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\305_022
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/2/2007 2:37:29 AM
Analysis Date: 11/2/2007 7:51:16 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.3



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

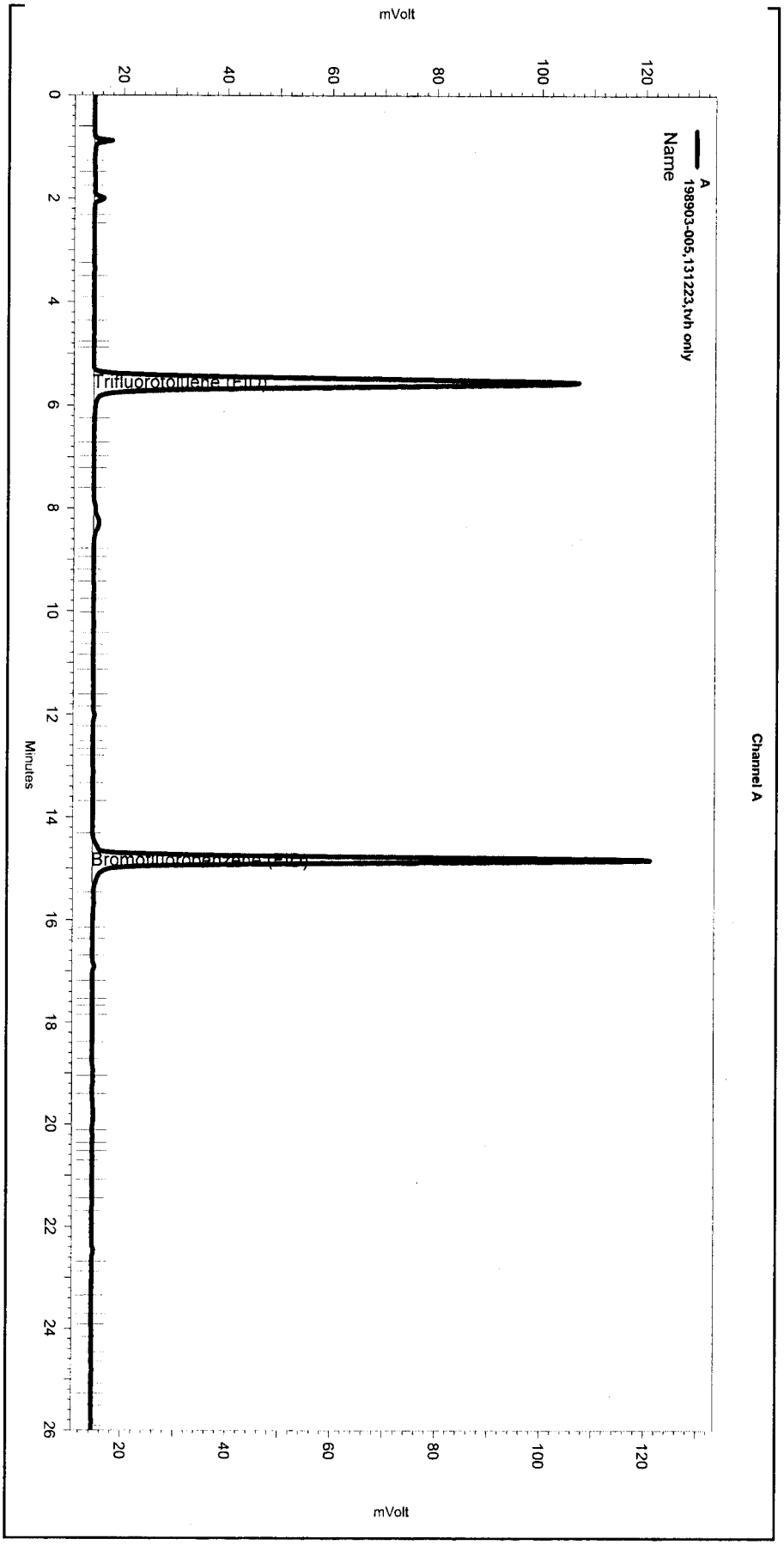
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\305_022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\305.seq**
Sample Name: **198903-005,131223,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\305_023**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/2/2007 3:13:19 AM
Analysis Date: 11/2/2007 7:51:20 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.3



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

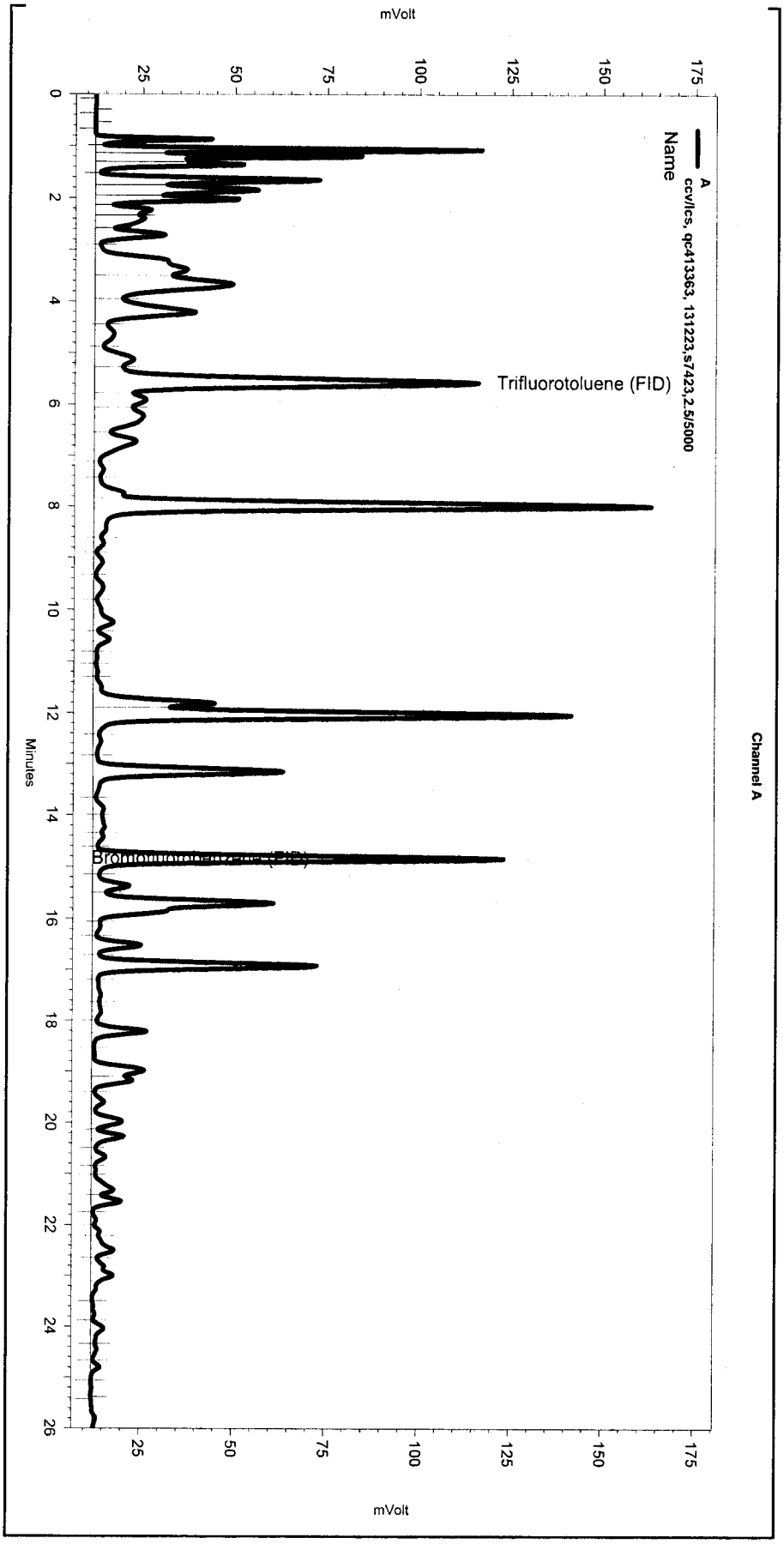
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\305_023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\305.seq**
Sample Name: **ccv/lcs, qc413363, 131223,s7423,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\305_003**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/1/2007 12:44:02 PM
Analysis Date: 11/2/2007 7:49:57 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\305_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413363	Batch#:	131223
Matrix:	Water	Analyzed:	11/01/07
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	980.9	98	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	65-135
Bromofluorobenzene (FID)	98	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	EX357RBEX358 (1065)	Batch#:	131223
MSS Lab ID:	198880-004	Sampled:	10/31/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/01/07
Diln Fac:	1.000		

Type: MS Lab ID: QC413364

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	30.90	2,000	1,908	94	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	96	65-135

Type: MSD Lab ID: QC413365

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,842	91	65-135	4	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	65-135
Bromofluorobenzene (FID)	99	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 327389838001
Units : ng

Name : MBTXE TFT/BFB 270
Date : 27-SEP-2007 17:55
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	270_011	327389838011	BTXE_1	27-SEP-2007 17:55	S7260 (1000X), S7273 (5000X)
L2	270_012	327389838012	MBTXE_2	27-SEP-2007 18:32	S7258 (1250X), S7273 (5000X)
L3	270_013	327389838013	MBTXE_3	27-SEP-2007 19:09	S7258 (500X), S7273 (5000X)
L4	270_014	327389838014	MBTXE_4	27-SEP-2007 19:46	S7258 (125X), S7273 (5000X)
L5	270_015	327389838015	MBTXE_5	27-SEP-2007 20:23	S7257 (1000X), S7273 (5000X)
L6	270_016	327389838016	MBTXE_6	27-SEP-2007 21:00	S7257 (500X), S7273 (5000X)
L7	270_017	327389838017	MBTXE_7	27-SEP-2007 21:38	S7257 (250X), S7273 (5000X)
L8	270_018	327389838018	MTBE_7	27-SEP-2007 22:15	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2574.8	2543.4	2652.4	2657.1	2526.3	2598.4	2628.9	2500.5	AVRG		3.87E-4		2585.2	2	0.995	20	
Bromofluorobenzene (FID)	A	2167.6	2036.9	2108.7	2121.6	2053.1	2054.6	2101.1	2030.0	AVRG		4.80E-4		2084.2	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-2	450.0	3	450.0	3	450.0	-2	450.0	1	450.0	2	450.0	-3
Bromofluorobenzene (FID)	A	450.0	4	450.0	-2	450.0	1	450.0	2	450.0	-1	450.0	-1	450.0	1	450.0	-3

CP 09/28/07 : Can not report MTBE from channel C. Channel C will be confirm only.

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Water: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 GCVOA Water
EPA 8015B

Inst : GC07 Name : GC07 GAS 295
Calnum : 327425380001 Cal Date : 22-OCT-2007

ICV 327425380018 (295_018 22-OCT-2007) stds: S7423 (1000X), S7273 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1690.1	1688.0	10000	9988	ng	0	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198903 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC413363 IDF : 1.0
Seqnum : 327439892003.1 File : 305_003 Time : 01-NOV-2007 12:44
Standards: S7423 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1657.9	5000	4905	ng	-2	15	u
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	2793.4	450.0	486.2	ng	8	15	u
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	2039.6	450.0	440.4	ng	-2	15	u

Analyst: PDM Date: 11/02/07 Reviewer: MMP Date: 11/08/07

u=use

327439892003.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327439892017 File : 305_017 Time : 01-NOV-2007 23:38
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1519.5	15000	13490	ng	-10	15	
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	3144.5	450.0	547.3	ng	**22**	15	c+
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	2052.3	450.0	443.1	ng	-2	15	

PDM 11/02/07 : PID surrogates are not applicable.

PDM 11/02/07 [Trifluorotoluene (FID) A]: Passes control limits.

Analyst: PDM Date: 11/02/07 Reviewer: LH Date: 11/07/07

+=high bias c=CCV

327439892017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327439892026 File : 305_026 Time : 02-NOV-2007 05:00
Standards: S7423 (1000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1465.3	10000	8670	ng	-13	15	
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	2889.5	450.0	503.0	ng	12	15	
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	1996.6	450.0	431.1	ng	-4	15	

PDM 11/02/07 : PID surrogates are not applicable.

PDM 11/02/07 : Gas C6-C12 N/A for batch

Analyst: PDM Date: 11/02/07 Reviewer: LH Date: 11/07/07

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327389838

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 09/27/07 17:18
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
010	270_010	IB	CALIB			09/27/07 17:18	1.0	1
011	270_011	ICAL	BTXE_1			09/27/07 17:55	1.0	2 1
012	270_012	ICAL	MBTXE_2			09/27/07 18:32	1.0	3 1
013	270_013	ICAL	MBTXE_3			09/27/07 19:09	1.0	3 1
014	270_014	ICAL	MBTXE_4			09/27/07 19:46	1.0	3 1
015	270_015	ICAL	MBTXE_5			09/27/07 20:23	1.0	4 1
016	270_016	ICAL	MBTXE_6			09/27/07 21:00	1.0	4 1
017	270_017	ICAL	MBTXE_7			09/27/07 21:38	1.0	4 1
018	270_018	ICAL	MTBE_7			09/27/07 22:15	1.0	5 1
019	270_019	X	IB			09/27/07 22:52	1.0	1
020	270_020	ICV	MBTXE			09/27/07 23:29	1.0	6 1
021	270_021	X	MBTXE			09/28/07 00:06	1.0	6 1

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Standards used: 1=S7273 2=S7260 3=S7258 4=S7257 5=S6302 6=S7263

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327425380

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 10/22/07 09:40
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	295_001	X	IB			10/22/07 09:40	1.0	1
002	295_002	X	IB			10/22/07 10:15	1.0	1
003	295_003	X	ICAL			10/22/07 10:50	1.0	2 1
004	295_004	X	ICAL			10/22/07 12:00	1.0	3 1
005	295_005	X	ICAL			10/22/07 12:35	1.0	4 1
006	295_006	X	ICAL			10/22/07 13:45	1.0	5 1
007	295_007	X	ICAL			10/22/07 15:09	1.0	5 1
008	295_008	X	IB			10/22/07 16:45	1.0	1
009	295_009	X	ICAL			10/22/07 17:21	1.0	6 1
010	295_010	X	IB			10/22/07 18:37	1.0	1
011	295_011	IB	CALIB			10/22/07 19:13	1.0	1
012	295_012	ICAL	TVH 1			10/22/07 19:49	1.0	2 1
013	295_013	ICAL	TVH 2			10/22/07 20:24	1.0	3 1
014	295_014	ICAL	TVH 3			10/22/07 21:00	1.0	4 1
015	295_015	ICAL	TVH 4			10/22/07 21:36	1.0	5 1
016	295_016	ICAL	TVH 5			10/22/07 22:11	1.0	5 1
017	295_017	X	IB			10/22/07 22:47	1.0	1
018	295_018	ICV	TVH			10/22/07 23:23	1.0	6 1
019	295_019	X	ICV			10/22/07 23:59	1.0	6 1
020	295_020	X	IB			10/23/07 00:35	1.0	1
021	295_021	CMARKER				10/23/07 01:10	1.0	7 1

Analyst: MJM Date: 10/24/07 Reviewer: LH Date: 10/24/07

Standards used: 1=S7273 2=S7476 3=S6986 4=S6985 5=S6984 6=S7423 7=S6725

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327439892

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 11/01/07 11:32
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	305_001	X	CMARK			11/01/07 11:32	1.0	1 2
002	305_002	X	CCV			11/01/07 12:08	1.0	3 2
003	305_003	CCV/LCS	QC413363	Water	131223	11/01/07 12:44	1.0	4 2
004	305_004	X	CCV			11/01/07 13:26	1.0	3 2
005	305_005	X	IB			11/01/07 14:21	1.0	2
006	305_006	X	IB			11/01/07 14:57	1.0	2
007	305_007	X	IB			11/01/07 16:10	1.0	2
008	305_008	BLANK	QC413362	Water	131223	11/01/07 16:46	1.0	2
009	305_009	SAMPLE	198881-001	Water	131223	11/01/07 18:52	1.0	2
010	305_010	SAMPLE	198881-002	Water	131223	11/01/07 19:28	1.0	2
011	305_011	SAMPLE	198881-009	Water	131223	11/01/07 20:03	1.0	2
012	305_012	SAMPLE	198881-014	Water	131223	11/01/07 20:39	1.0	2
013	305_013	SAMPLE	198881-018	Water	131223	11/01/07 21:15	1.0	2
014	305_014	SAMPLE	198881-019	Water	131223	11/01/07 21:51	1.0	2
015	305_015	MS	QC413364	Water	131223	11/01/07 22:26	1.0	4 2
016	305_016	MSD	QC413365	Water	131223	11/01/07 23:02	1.0	4 2
017	305_017	CCV	TVH			11/01/07 23:38	1.0	4 2
018	305_018	X	CCV			11/02/07 00:14	1.0	4 2
019	305_019	X	CMARK			11/02/07 00:50	1.0	1 2
020	305_020	SAMPLE	198880-003	Water	131223	11/02/07 01:25	1.0	2
021	305_021	MSS	198880-004	Water	131223	11/02/07 02:01	1.0	2
022	305_022	SAMPLE	198903-004	Water	131223	11/02/07 02:37	1.0	2
023	305_023	SAMPLE	198903-005	Water	131223	11/02/07 03:13	1.0	2
024	305_024	SAMPLE	198893-002	Water	131223	11/02/07 03:49	1.0	2
025	305_025	X	CCV			11/02/07 04:24	1.0	4 2
026	305_026	CCV	TVH			11/02/07 05:00	1.0	4 2
027	305_027	X	CMARK			11/02/07 05:36	1.0	1 2

Analyst: PDM Date: 11/02/07 Reviewer: _____ Date: _____

Standards used: 1=S7569 2=S7356 3=S7564 4=S7423

REPORTING SUMMARY FOR 198903 GCVOA Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
198903-004	GC07	11/02/07 02:37	1.0	+	+	+	
198903-005	GC07	11/02/07 03:13	1.0	+	+	+	
QC413362	GC07	11/01/07 16:46	1.0	+	+	+	
QC413363	GC07	11/01/07 12:44	1.0	+	+	+	
QC413364	GC07	11/01/07 22:26	1.0	+	+	+	
QC413365	GC07	11/01/07 23:02	1.0	+	+	+	

TPH-PURGEABLE HYDROCARBONS IN SOIL

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/01/07
Units:	mg/Kg	Received:	11/01/07
Diln Fac:	1.000		

Field ID:	1065EX359[4.0]	Moisture:	16%
Type:	SAMPLE	Batch#:	131365
Lab ID:	198903-001	Analyzed:	11/06/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.043 J	0.19	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	80	65-135
Bromofluorobenzene (FID)	95	65-135

Field ID:	1065EX360[4.0]	Moisture:	16%
Type:	SAMPLE	Batch#:	131365
Lab ID:	198903-002	Analyzed:	11/06/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.18	0.013

Surrogate	%REC	Limits
Trifluorotoluene (FID)	86	65-135
Bromofluorobenzene (FID)	95	65-135

Field ID:	DUP110107	Moisture:	15%
Type:	SAMPLE	Batch#:	131365
Lab ID:	198903-003	Analyzed:	11/06/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.023 J	0.18	0.013

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	65-135
Bromofluorobenzene (FID)	97	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/01/07
Units:	mg/Kg	Received:	11/01/07
Diln Fac:	1.000		

Field ID:	1065EX361[4.5]	Moisture:	19%
Type:	SAMPLE	Batch#:	131365
Lab ID:	198903-006	Analyzed:	11/06/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.018 J	0.23	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	77	65-135
Bromofluorobenzene (FID)	88	65-135

Field ID:	1065EX362[5.5]	Moisture:	16%
Type:	SAMPLE	Batch#:	131434
Lab ID:	198903-007	Analyzed:	11/07/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.52 Y	0.24	0.019

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	65-135
Bromofluorobenzene (FID)	118	65-135

Type:	BLANK	Batch#:	131365
Lab ID:	QC413919	Analyzed:	11/06/07
Basis:	as received		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	95	65-135

Type:	BLANK	Batch#:	131434
Lab ID:	QC414202	Analyzed:	11/07/07
Basis:	as received		

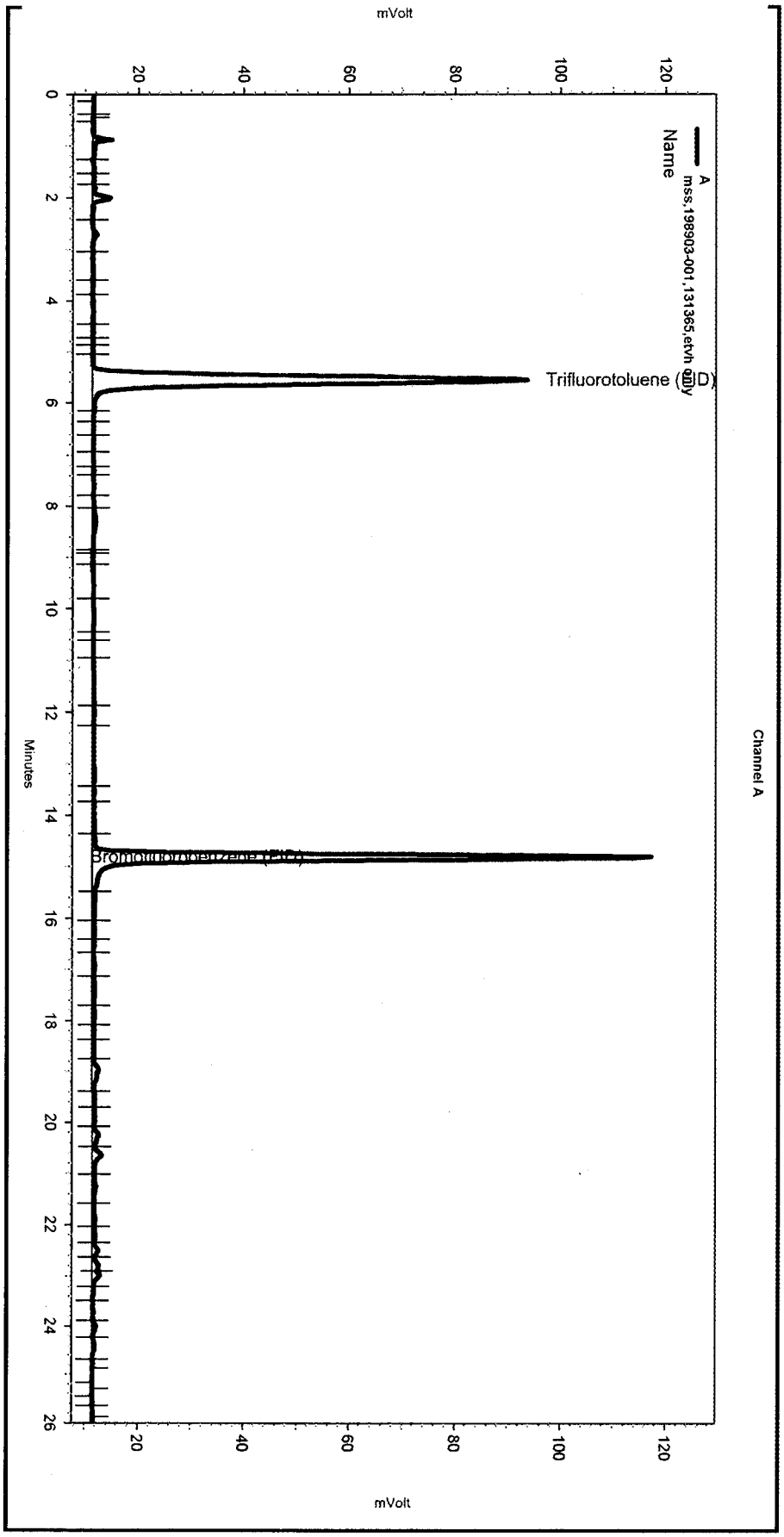
Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.20	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	65-135
Bromofluorobenzene (FID)	95	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\310.seq
Sample Name: **mss,198903-001,131365,etvh only**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_011
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/6/2007 4:15:04 PM
Analysis Date: 11/7/2007 10:09:53 AM
Sample Amount: 6.17 Multiplier: 6.17
Vial & pH or Core ID: d



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

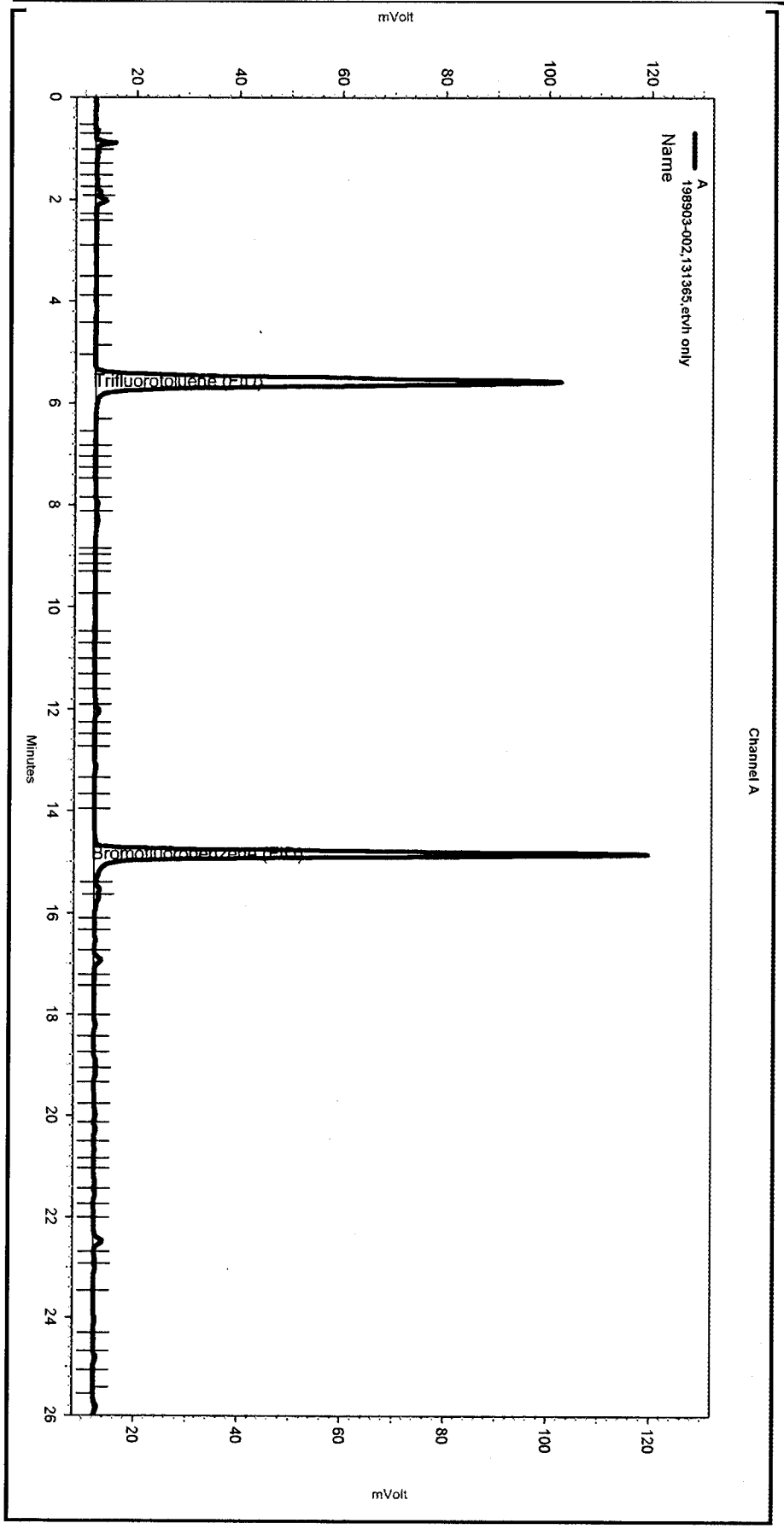
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\310.seq**
Sample Name: **198903-002,131365,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\310_019**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/6/2007 9:01:39 PM
Analysis Date: 11/7/2007 10:10:28 AM
Sample Amount: 6.67 Multiplier: 6.67
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

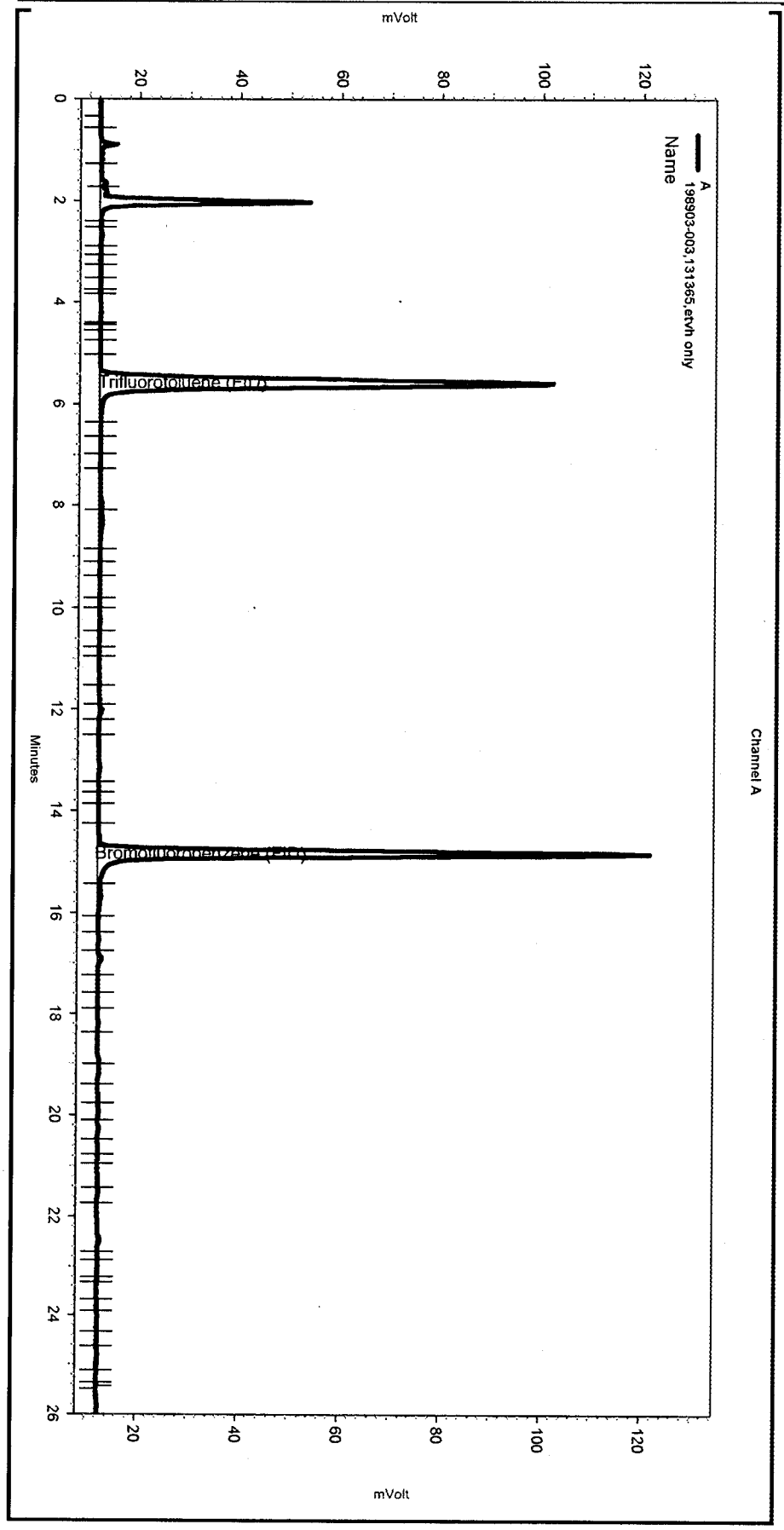
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\310.seq**
Sample Name: **198903-003,131365,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\310_020**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/6/2007 9:37:25 PM
Analysis Date: 11/7/2007 10:10:33 AM
Sample Amount: 6.6 Multiplier: 6.6
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

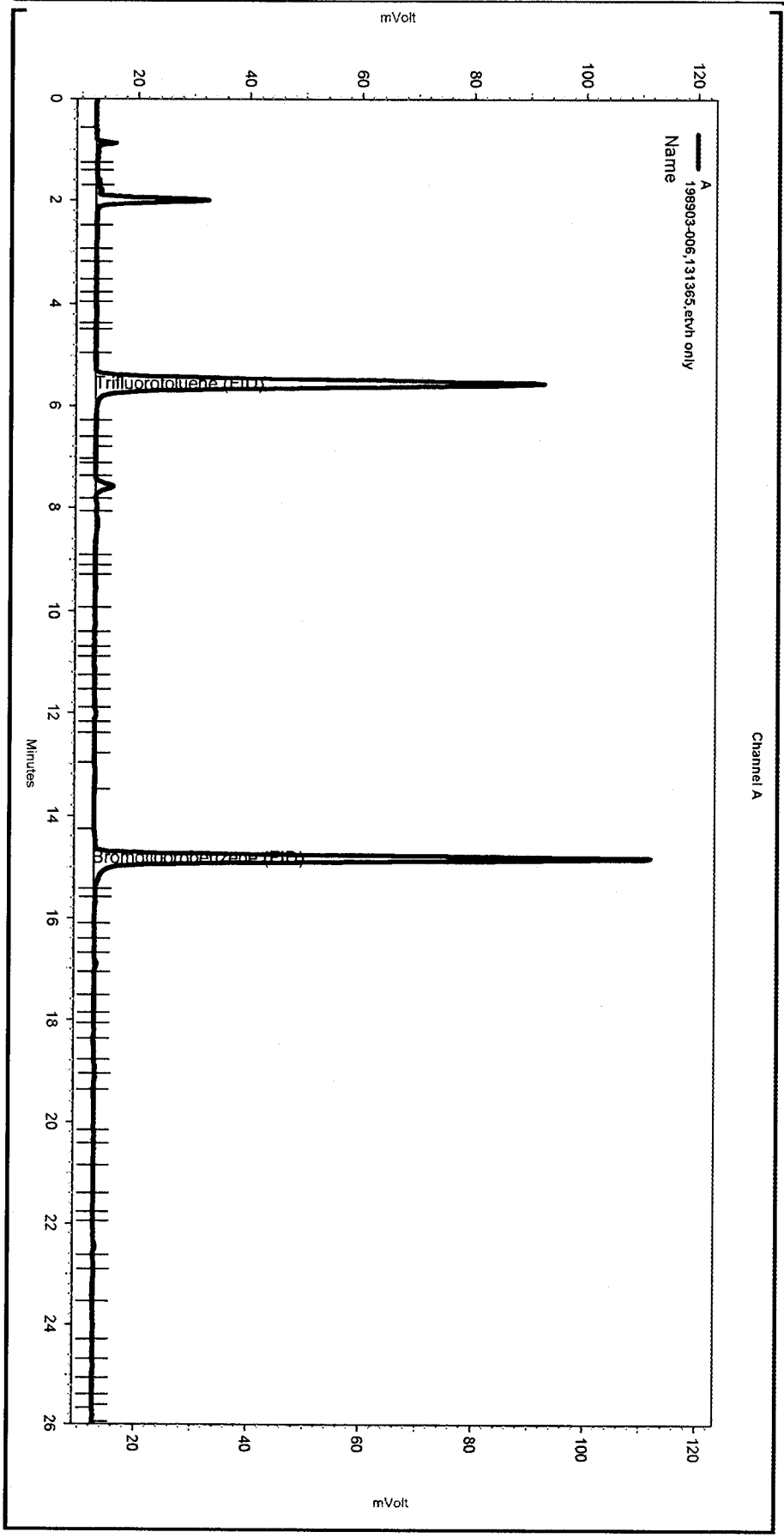
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\310.seq**
Sample Name: **198903-006,131365,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\310_021**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/6/2007 10:13:13 PM
Analysis Date: 11/7/2007 10:10:37 AM
Sample Amount: 5.43 Multiplier: 5.43
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

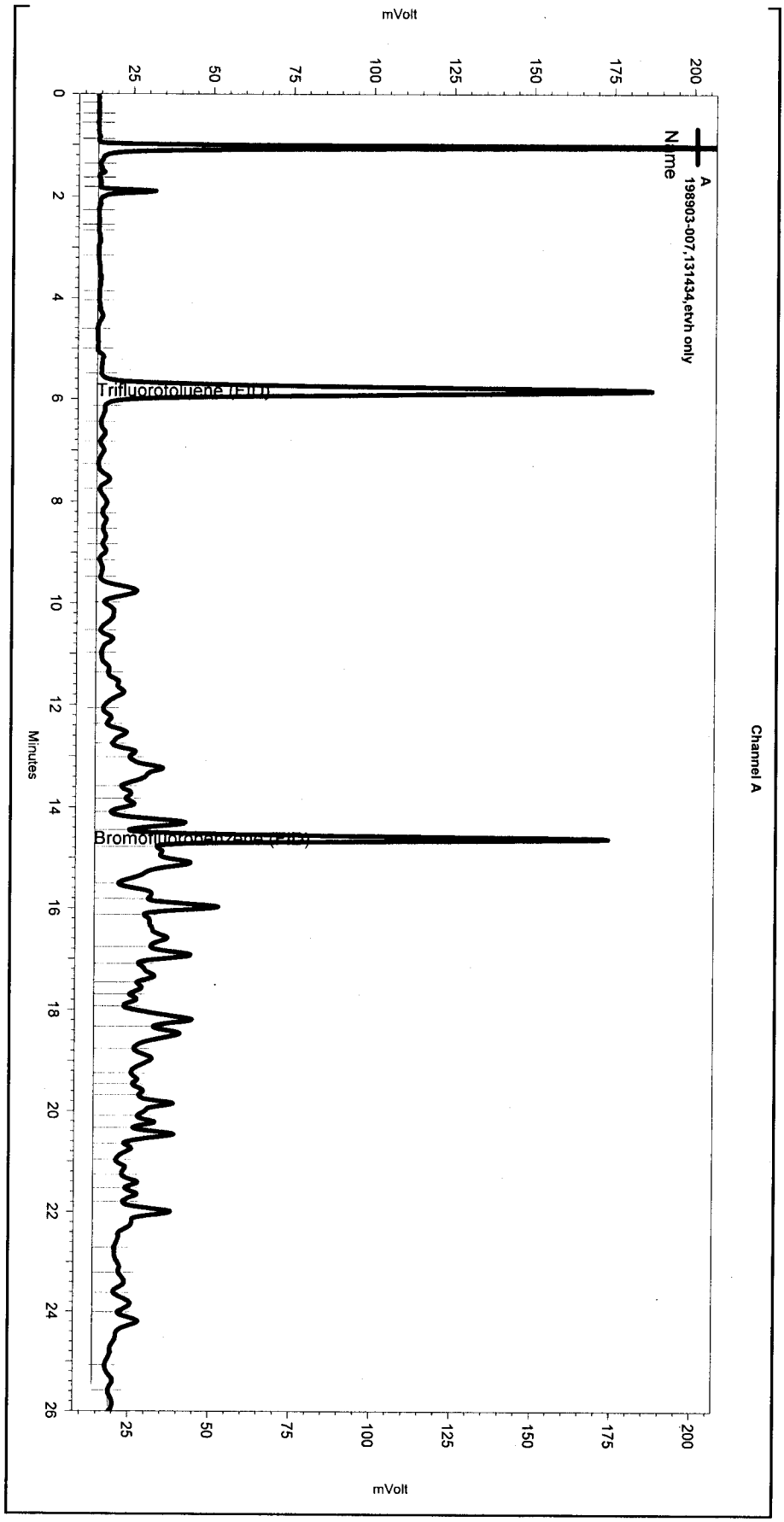
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\311.seq**
Sample Name: **198903-007,131434,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\311_007**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe302.met

Software Version 3.1.7
Run Date: 11/7/2007 8:11:41 PM
Analysis Date: 11/8/2007 12:23:10 PM
Sample Amount: 4.99 Multiplier: 4.99
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

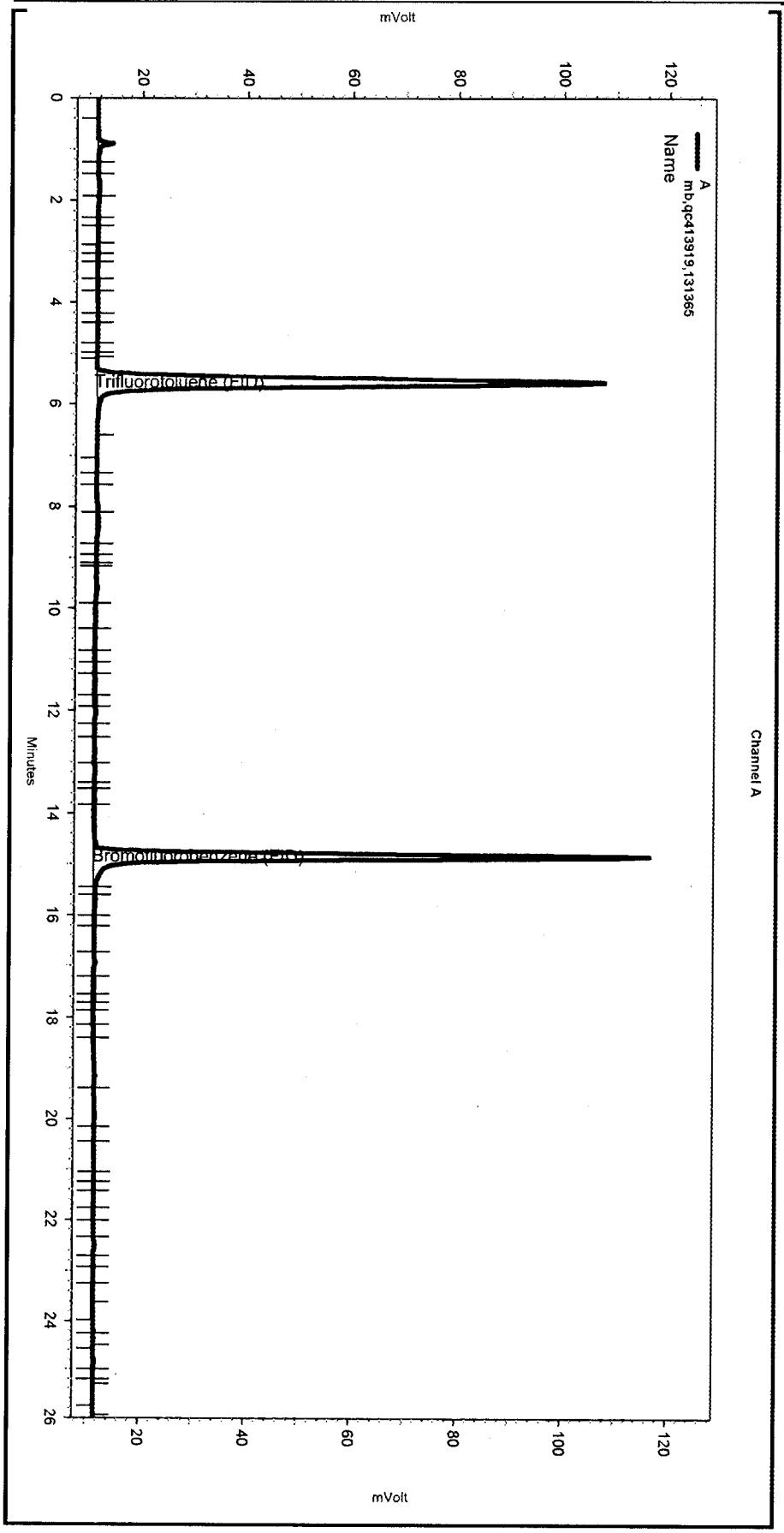
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\311_007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.408	25.485	0
Yes	Split Peak	6.132	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\310.seq
Sample Name: **mb,qc413919,131365**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_006
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe295.met

Software Version 3.1.7
Run Date: 11/6/2007 12:37:02 PM
Analysis Date: 11/7/2007 10:09:31 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: (Data Description)



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

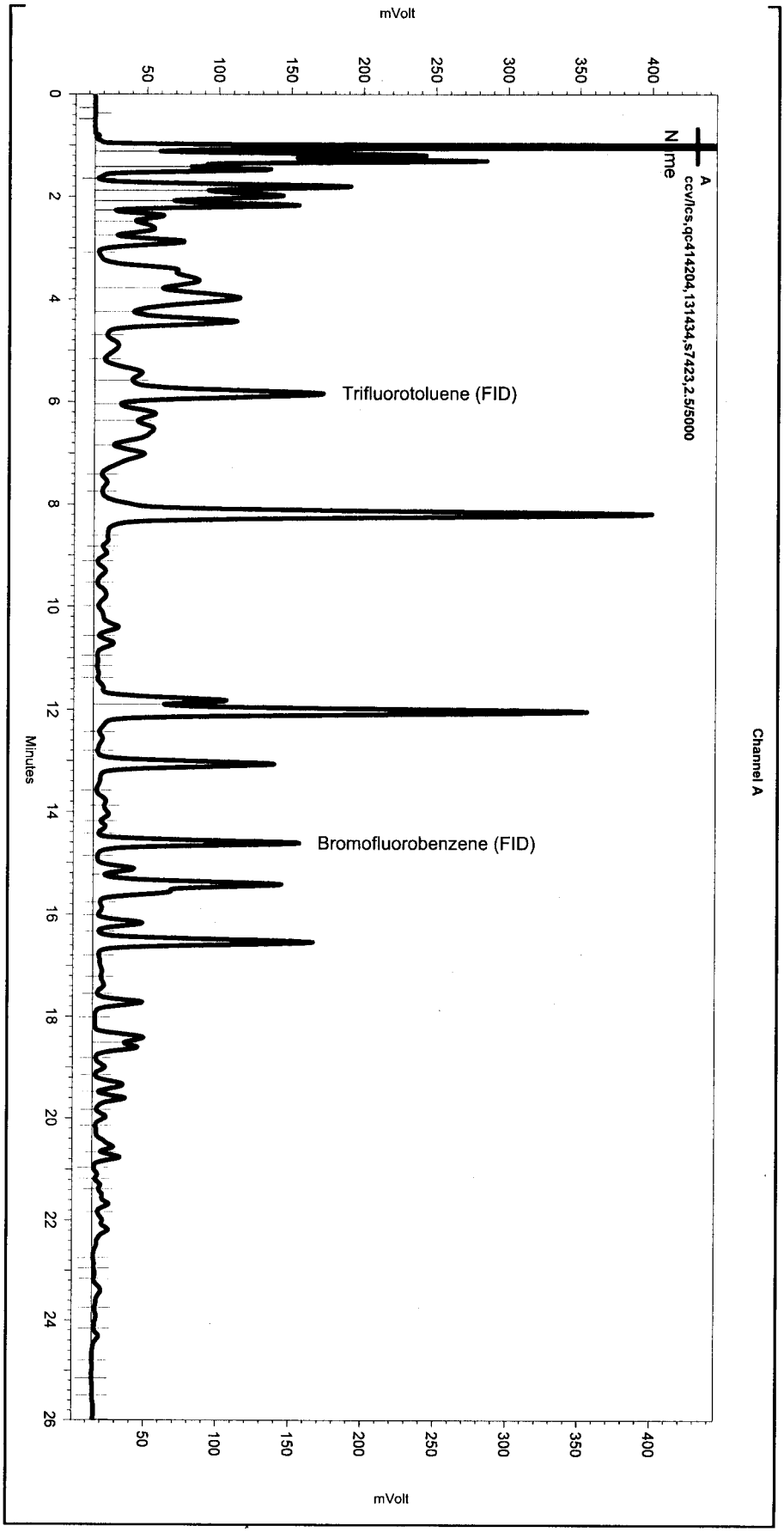
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\310_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\311.seq**
Sample Name: **ccv/lcs,qc414204,131434,s7423,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\311_003**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe302.met

Software Version 3.1.7
Run Date: 11/7/2007 3:49:18 PM
Analysis Date: 11/8/2007 8:03:03 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\311_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC413921	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131365
Units:	mg/Kg	Analyzed:	11/06/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.765	95	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	92	65-135

60.0

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC414204	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131434
Units:	mg/Kg	Analyzed:	11/07/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.723	94	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	65-135
Bromofluorobenzene (FID)	98	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX359[4.0]	Diln Fac:	1.000
MSS Lab ID:	198903-001	Batch#:	131365
Matrix:	Soil	Sampled:	11/01/07
Units:	mg/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/06/07

Type: MS
Lab ID: QC413922

Moisture: 16%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.04333	2.781	2.334	82	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	95	65-135

Type: MSD
Lab ID: QC413923

Moisture: 16%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.971	1.605	79	75-125	4	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	95	65-135

RPD= Relative Percent Difference

61.0

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	199025-001	Batch#:	131434
Matrix:	Soil	Sampled:	11/06/07
Units:	mg/Kg	Received:	11/07/07
Basis:	as received	Analyzed:	11/07/07

Type: MS Lab ID: QC414205

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.07978	10.00	8.465	85	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	150 *	65-135
Bromofluorobenzene (FID)	114	65-135

Type: MSD Lab ID: QC414206

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	8.118	81	75-125	4	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	150 *	65-135
Bromofluorobenzene (FID)	112	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

63.0

: 00040

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 GCVOA Soil
EPA 8015B

Inst : GC04 Name : GC04 TVH 166
Calnum : 307240439001 Cal Date : 16-JUN-2007

ICV 307240439025 (166_025 16-JUN-2007) stds: S6393 (1000X), S6435 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	4397.8	4535.9	10000	10310	ng	3	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 307435352001
Units : ng

Name : GC04 MBTXE/SURR 302
Date : 29-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	302_009	307435352009	BTXE_1	29-OCT-2007 19:38	S7260 (1000X), S7356 (5000X)
L2	302_010	307435352010	MBTXE_2	29-OCT-2007 20:15	S7258 (1250X), S7356 (5000X)
L3	302_011	307435352011	MBTXE_3	29-OCT-2007 20:53	S7258 (500X), S7356 (5000X)
L4	302_012	307435352012	MBTXE_4	29-OCT-2007 21:31	S7258 (125X), S7356 (5000X)
L5	302_013	307435352013	MBTXE_5	29-OCT-2007 22:08	S7257 (1000X), S7356 (5000X)
L6	302_014	307435352014	MBTXE_6	29-OCT-2007 22:46	S7257 (500X), S7356 (5000X)
L7	302_015	307435352015	MBTXE_7	29-OCT-2007 23:24	S7257 (250X), S7356 (5000X)
L8	302_016	307435352016	MTBE_7	30-OCT-2007 00:01	S6302 (500X), S7356 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3913.7	4177.7	3904.1	3661.5	3896.1	3977.3	3937.1	3852.6	AVRG		2.55E-4		3915.0	4	0.995	20	
Bromofluorobenzene (FID)	A	2412.2	2540.8	2428.9	2291.4	2510.4	2558.1	2584.1	2348.4	AVRG		4.07E-4		2459.3	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	7	450.0	0	450.0	-6	450.0	0	450.0	2	450.0	1	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-2	450.0	3	450.0	-1	450.0	-7	450.0	2	450.0	4	450.0	5	450.0	-5

MJM 10/30/07 : ICV: MTBE Failed low Ch. C. Report analyte from Ch. B. Ch. C to be used as confirm only.

Analyst: MJM Date: 10/30/07 Reviewer: LH Date: 10/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

307435352001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 327389838001
Units : ng

Name : MBTXE TFT/BFB 270
Date : 27-SEP-2007 17:55
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	270_011	327389838011	BTXE_1	27-SEP-2007 17:55	S7260 (1000X), S7273 (5000X)
L2	270_012	327389838012	MBTXE_2	27-SEP-2007 18:32	S7258 (1250X), S7273 (5000X)
L3	270_013	327389838013	MBTXE_3	27-SEP-2007 19:09	S7258 (500X), S7273 (5000X)
L4	270_014	327389838014	MBTXE_4	27-SEP-2007 19:46	S7258 (125X), S7273 (5000X)
L5	270_015	327389838015	MBTXE_5	27-SEP-2007 20:23	S7257 (1000X), S7273 (5000X)
L6	270_016	327389838016	MBTXE_6	27-SEP-2007 21:00	S7257 (500X), S7273 (5000X)
L7	270_017	327389838017	MBTXE_7	27-SEP-2007 21:38	S7257 (250X), S7273 (5000X)
L8	270_018	327389838018	MTBE_7	27-SEP-2007 22:15	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2574.8	2543.4	2652.4	2657.1	2526.3	2598.4	2628.9	2500.5	AVRG		3.87E-4		2585.2	2	0.995	20	
Bromofluorobenzene (FID)	A	2167.6	2036.9	2108.7	2121.6	2053.1	2054.6	2101.1	2030.0	AVRG		4.80E-4		2084.2	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-2	450.0	3	450.0	3	450.0	-2	450.0	1	450.0	2	450.0	-3
Bromofluorobenzene (FID)	A	450.0	4	450.0	-2	450.0	1	450.0	2	450.0	-1	450.0	-1	450.0	1	450.0	-3

CP 09/28/07 : Can not report MTBE from channel C. Channel C will be confirm only.

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 GCVOA Soil
EPA 8015B

Inst : GC07 Name : GC07 GAS 295
Calnum : 327425380001 Cal Date : 22-OCT-2007

ICV 327425380018 (295_018 22-OCT-2007) stds: S7423 (1000X), S7273 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1690.1	1688.0	10000	9988	ng	0	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198903 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : QC414203 IDF : 1.0
Seqnum : 307448713002.2 File : 311_002 Time : 07-NOV-2007 15:11
Cal : 307435352001 Caldate : 29-OCT-2007
Standards: S7564 (2000X), S7356 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	3915.0	3855.5	450.0	443.2	ng	-2	15	
Bromofluorobenzene (FID)	A	2459.3	2434.0	450.0	445.4	ng	-1	15	

PDM 11/08/07 [Trifluorotoluene (PID) B]: Passes control limits. [general version]

Analyst: PDM Date: 11/08/07 Reviewer: LH Date: 11/08/07

307448713002.2

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : BTXE IDF : 1.0
Seqnum : 307448713014 File : 311_014 Time : 08-NOV-2007 00:35
Cal : 307435352001 Caldate : 29-OCT-2007
Standards: S7564 (666.7X), S7356 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	3915.0	3935.0	450.0	452.3	ng	1	15	
Bromofluorobenzene (FID)	A	2459.3	2483.0	450.0	454.3	ng	1	15	

PDM 11/08/07 : MTBE N/A for batch

Analyst: PDM Date: 11/08/07 Reviewer: LH Date: 11/08/07

307448713014

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 307448713017 File : 311_017 Time : 08-NOV-2007 02:28
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3937.8	15000	13430	ng	-10	15	
Trifluorotoluene (FID)	A	307435352001	29-OCT-2007	3915.0	6318.4	450.0	726.2	ng	**61**	15	c+
Bromofluorobenzene (FID)	A	307435352001	29-OCT-2007	2459.3	2686.2	450.0	491.5	ng	9	15	

PDM 11/08/07 : PID surrogates are not applicable.

PDM 11/08/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

Analyst: PDM Date: 11/08/07 Reviewer: LH Date: 11/08/07

+=high bias c=CCV

307448713017

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198903 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC413921 IDF : 1.0
Seqnum : 327446934003.2 File : 310_003 Time : 06-NOV-2007 10:05
Standards: S7423 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1610.6	5000	4765	ng	-5	15	u
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	2593.5	450.0	451.4	ng	0	15	u
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	1923.0	450.0	415.2	ng	-8	15	u

MJM 11/07/07 : PID surrogates are not applicable. [general version]

Analyst: PDM Date: 11/08/07 Reviewer: LH Date: 11/08/07

u=use

327446934003.2

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : BTXE IDF : 1.0
Seqnum : 327446934014 File : 310_014 Time : 06-NOV-2007 18:02
Cal : 327389838001 Caldate : 27-SEP-2007
Standards: S7564 (666.7X), S7356 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	2585.2	2403.0	450.0	418.3	ng	-7	15	
Bromofluorobenzene (FID)	A	2084.2	2017.6	450.0	435.6	ng	-3	15	

MJM 11/07/07 : MTBE N/A for samples in sequence.

MJM 11/07/07 : All PID surrogates passed control limits.

Analyst: MJM Date: 11/07/07 Reviewer: LH Date: 11/08/07

327446934014

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327446934015 File : 310_015 Time : 06-NOV-2007 18:38
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1543.9	15000	13700	ng	-9	15	
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	3115.6	450.0	542.3	ng	**21**	15	c+
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	1991.5	450.0	430.0	ng	-4	15	

MJM 11/07/07 : PID surrogates are not applicable.

MJM 11/07/07 [Trifluorotoluene (PID) C]: Passes control limits.

Analyst: MJM Date: 11/07/07 Reviewer: LH Date: 11/08/07

+=high bias c=CCV

327446934015

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327446934028 File : 310_028 Time : 07-NOV-2007 02:23
Standards: S7423 (1000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1501.8	10000	8886	ng	-11	15	
Trifluorotoluene (FID)	A	327389838001	27-SEP-2007	2585.2	2769.6	450.0	482.1	ng	7	15	
Bromofluorobenzene (FID)	A	327389838001	27-SEP-2007	2084.2	1970.8	450.0	425.5	ng	-5	15	

MJM 11/07/07 : PID surrogates are not applicable.

Analyst: MJM Date: 11/07/07 Reviewer: LH Date: 11/08/07

327446934028

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307240439

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 06/15/07 10:59
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	166_001	X	CMARK			06/15/07 10:59	1.0	1 2
002	166_002	CCV	TVH			06/15/07 11:37	1.0	3 2
003	166_003	X	CCV			06/15/07 12:15	1.0	4 2
004	166_004	X	IB			06/15/07 13:08	1.0	2
005	166_005	IB	CALIB			06/15/07 15:44	1.0	2
006	166_006	ICAL	BTXE_1			06/15/07 16:22	1.0	5 2
007	166_007	ICAL	BTXE_2			06/15/07 17:00	1.0	6 2
008	166_008	ICAL	BTXE_3			06/15/07 17:38	1.0	6 2
009	166_009	X	ICAL			06/15/07 18:16	1.0	6 2
010	166_010	ICAL	BTXE_5			06/15/07 18:54	1.0	7 2
011	166_011	ICAL	BTXE_6			06/15/07 19:31	1.0	7 2
012	166_012	ICAL	BTXE_7			06/15/07 20:09	1.0	7 2
013	166_013	ICAL	MTBE_7			06/15/07 20:47	1.0	8 2
014	166_014	X	IB			06/15/07 21:25	1.0	2
015	166_015	X	ICV			06/15/07 22:03	1.0	9 2
016	166_016	X	ICV			06/15/07 22:41	1.0	9 2
017	166_017	X	IB			06/15/07 23:19	1.0	2
018	166_018	IB	CALIB			06/15/07 23:57	1.0	2
019	166_019	ICAL	TVH_1			06/16/07 00:35	1.0	10 2
020	166_020	ICAL	TVH_2			06/16/07 01:13	1.0	11 2
021	166_021	ICAL	TVH_3			06/16/07 01:51	1.0	12 2
022	166_022	ICAL	TVH_4			06/16/07 02:29	1.0	13 2
023	166_023	ICAL	TVH_5			06/16/07 03:07	1.0	13 2
024	166_024	X	IB			06/16/07 03:45	1.0	2
025	166_025	ICV	TVH			06/16/07 04:23	1.0	3 2
026	166_026	ICV	TVH			06/16/07 05:01	1.0	3 2
027	166_027	X	IB			06/16/07 05:39	1.0	2
028	166_028	CMARKER				06/16/07 06:17	1.0	1 2
030	166_030	ICAL	BTXE_4			06/18/07 11:26	1.0	6 2
031	166_031	X	IB			06/18/07 12:04	1.0	2
032	166_032	ICV	MBTXE			06/18/07 12:42	1.0	9 2
033	166_033	IB	CALIB			06/18/07 13:30	1.0	2
034	166_034	ICAL	TFT/BFB_1			06/18/07 14:14	1.0	14
035	166_035	ICAL	TFT/BFB_2			06/18/07 14:54	1.0	15
036	166_036	ICAL	TFT/BFB_3			06/18/07 15:48	1.0	16
037	166_037	ICAL	TFT/BFB_4			06/18/07 16:37	1.0	17
038	166_038	ICAL	TFT/BFB_5			06/18/07 17:20	1.0	18

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Standards used: 1=S6383 2=S6435 3=S6393 4=S5943 5=S6305 6=S6304 7=S6303 8=S6302 9=S6204 10=S5937 11=S5936 12=S5935 13=S5934 14=S5951 15=S5952 16=S5953 17=S5954 18=S5955

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307435352

Instrument : GC04
Method : EPA 8015B, EPA 8021B
Begun : 10/29/07 07:52
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	302_001	X	IB			10/29/07 07:52	1.0	1
002	302_002	X	CMARK			10/29/07 08:30	1.0	2 1
003	302_003	X	CCV			10/29/07 09:07	1.0	3 1
004	302_004	X	CCV			10/29/07 09:45	1.0	4 1
005	302_005	X	CCV			10/29/07 10:42	1.0	4 1
006	302_006	X	IB			10/29/07 11:35	1.0	1
007	302_007	X	IB			10/29/07 18:22	1.0	1
008	302_008	IB	CALIB			10/29/07 19:00	1.0	1
009	302_009	ICAL	BTXE_1			10/29/07 19:38	1.0	5 1
010	302_010	ICAL	MBTXE_2			10/29/07 20:15	1.0	6 1
011	302_011	ICAL	MBTXE_3			10/29/07 20:53	1.0	6 1
012	302_012	ICAL	MBTXE_4			10/29/07 21:31	1.0	6 1
013	302_013	ICAL	MBTXE_5			10/29/07 22:08	1.0	7 1
014	302_014	ICAL	MBTXE_6			10/29/07 22:46	1.0	7 1
015	302_015	ICAL	MBTXE_7			10/29/07 23:24	1.0	7 1
016	302_016	ICAL	MTBE_7			10/30/07 00:01	1.0	8 1
017	302_017	X	IB			10/30/07 00:39	1.0	1
018	302_018	ICV	MBTXE			10/30/07 01:17	1.0	9 1
019	302_019	X	ICV			10/30/07 01:54	1.0	9 1

Analyst: MJM Date: 10/30/07 Reviewer: LH Date: 10/30/07

Standards used: 1=S7356 2=S6725 3=S6970 4=S7423 5=S7260 6=S7258 7=S7257 8=S6302 9=S7263

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307448713

Instrument : GC04
Method : EPA 8015B, EPA 8021B
Begun : 11/07/07 14:33
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	311_001	X	CMARK			11/07/07 14:33	1.0	1 2
002	311_002	CCV/LCS	QC414203	Soil	131434	11/07/07 15:11	1.0	3 2
003	311_003	CCV/LCS	QC414204	Soil	131434	11/07/07 15:49	1.0	4 2
004	311_004	X	CCV			11/07/07 16:27	1.0	3 2
005	311_005	X	IB			11/07/07 18:56	1.0	2
006	311_006	BLANK	QC414202	Soil	131434	11/07/07 19:34	1.0	2
007	311_007	SAMPLE	198903-007	Soil	131434	11/07/07 20:11	1.0	2
008	311_008	SAMPLE	199008-017	Soil	131434	11/07/07 20:49	1.0	2
009	311_009	SAMPLE	199008-018	Soil	131434	11/07/07 21:27	1.0	2
010	311_010	SAMPLE	199008-019	Soil	131434	11/07/07 22:04	1.0	2
011	311_011	SAMPLE	199008-020	Soil	131434	11/07/07 22:42	1.0	2
012	311_012	MS	QC414205	Soil	131434	11/07/07 23:19	1.0	4 2
013	311_013	MSD	QC414206	Soil	131434	11/07/07 23:57	1.0	4 2
014	311_014	CCV	BTXE			11/08/07 00:35	1.0	3 2
015	311_015	X	CCV			11/08/07 01:12	1.0	4 2
016	311_016	X	CCV			11/08/07 01:50	1.0	3 2
017	311_017	CCV	TVH			11/08/07 02:28	1.0	4 2
018	311_018	X	CMARK			11/08/07 03:05	1.0	1 2
019	311_019	SAMPLE	199008-021	Soil	131434	11/08/07 03:43	1.0	2
020	311_020	SAMPLE	199008-022	Soil	131434	11/08/07 04:20	1.0	2
021	311_021	SAMPLE	199008-023	Soil	131434	11/08/07 04:58	1.0	2
022	311_022	SAMPLE	199008-024	Soil	131434	11/08/07 05:36	1.0	2
023	311_023	MSS	199025-001	Soil	131434	11/08/07 06:13	1.0	2
024	311_024	SAMPLE	199025-002	Soil	131434	11/08/07 06:51	1.0	2
025	311_025	SAMPLE	199025-003	Soil	131434	11/08/07 07:29	1.0	2
026	311_026	SAMPLE	199025-004	Soil	131434	11/08/07 08:06	1.0	2
027	311_027	SAMPLE	199025-005	Soil	131434	11/08/07 08:44	1.0	2
028	311_028	CCV	BTXE			11/08/07 09:21	1.0	3 2
029	311_029	CCV	TVH			11/08/07 09:59	1.0	4 2
031	311_031	X	IB			11/08/07 11:32	1.0	2
032	311_032	SAMPLE	199013-001	Soil	131434	11/08/07 12:10	20.0	2

Analyst: PDM Date: 11/08/07 Reviewer: _____ Date: _____

Standards used: 1=S7569 2=S7356 3=S7564 4=S7423

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327389838

Instrument : GC07
Method : EPA 8015B, EPA 8021B
Begun : 09/27/07 17:18
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
010	270_010	IB	CALIB			09/27/07 17:18	1.0	1
011	270_011	ICAL	BTXE_1			09/27/07 17:55	1.0	2 1
012	270_012	ICAL	MBTXE_2			09/27/07 18:32	1.0	3 1
013	270_013	ICAL	MBTXE_3			09/27/07 19:09	1.0	3 1
014	270_014	ICAL	MBTXE_4			09/27/07 19:46	1.0	3 1
015	270_015	ICAL	MBTXE_5			09/27/07 20:23	1.0	4 1
016	270_016	ICAL	MBTXE_6			09/27/07 21:00	1.0	4 1
017	270_017	ICAL	MBTXE_7			09/27/07 21:38	1.0	4 1
018	270_018	ICAL	MTBE_7			09/27/07 22:15	1.0	5 1
019	270_019	X	IB			09/27/07 22:52	1.0	1
020	270_020	ICV	MBTXE			09/27/07 23:29	1.0	6 1
021	270_021	X	MBTXE			09/28/07 00:06	1.0	6 1

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Standards used: 1=S7273 2=S7260 3=S7258 4=S7257 5=S6302 6=S7263

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327425380

Instrument : GC07
Method : EPA 8015B, EPA 8021B
Begun : 10/22/07 09:40
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	295_001	X	IB			10/22/07 09:40	1.0	1
002	295_002	X	IB			10/22/07 10:15	1.0	1
003	295_003	X	ICAL			10/22/07 10:50	1.0	2 1
004	295_004	X	ICAL			10/22/07 12:00	1.0	3 1
005	295_005	X	ICAL			10/22/07 12:35	1.0	4 1
006	295_006	X	ICAL			10/22/07 13:45	1.0	5 1
007	295_007	X	ICAL			10/22/07 15:09	1.0	5 1
008	295_008	X	IB			10/22/07 16:45	1.0	1
009	295_009	X	ICAL			10/22/07 17:21	1.0	6 1
010	295_010	X	IB			10/22/07 18:37	1.0	1
011	295_011	IB	CALIB			10/22/07 19:13	1.0	1
012	295_012	ICAL	TVH 1			10/22/07 19:49	1.0	2 1
013	295_013	ICAL	TVH 2			10/22/07 20:24	1.0	3 1
014	295_014	ICAL	TVH 3			10/22/07 21:00	1.0	4 1
015	295_015	ICAL	TVH 4			10/22/07 21:36	1.0	5 1
016	295_016	ICAL	TVH 5			10/22/07 22:11	1.0	5 1
017	295_017	X	IB			10/22/07 22:47	1.0	1
018	295_018	ICV	TVH			10/22/07 23:23	1.0	6 1
019	295_019	X	ICV			10/22/07 23:59	1.0	6 1
020	295_020	X	IB			10/23/07 00:35	1.0	1
021	295_021	CMARKER				10/23/07 01:10	1.0	7 1

Analyst: MJM Date: 10/24/07 Reviewer: LH Date: 10/24/07

Standards used: 1=S7273 2=S7476 3=S6986 4=S6985 5=S6984 6=S7423 7=S6725

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327446934

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 11/06/07 08:54
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	310_001	X	CMARK			11/06/07 08:54	1.0	1 2
002	310_002	X	CCV			11/06/07 09:30	1.0	3 2
003	310_003	CCV/LCS	QC413921	Soil	131365	11/06/07 10:05	1.0	4 2
004	310_004	CCV/LCS	QC413920	Soil	131365	11/06/07 10:54	1.0	3 2
005	310_005	X	IB			11/06/07 11:48	1.0	2
006	310_006	BLANK	QC413919	Soil	131365	11/06/07 12:37	1.0	2
007	310_007	SAMPLE	198986-031	Soil	131365	11/06/07 13:51	1.0	2
008	310_008	SAMPLE	198986-032	Soil	131365	11/06/07 14:27	1.0	2
009	310_009	SAMPLE	198880-001	Soil	131365	11/06/07 15:03	1.0	2
010	310_010	SAMPLE	198880-002	Soil	131365	11/06/07 15:39	1.0	2
011	310_011	MSS	198903-001	Soil	131365	11/06/07 16:15	1.0	2
012	310_012	MS	QC413922	Soil	131365	11/06/07 16:50	1.0	4 2
013	310_013	MSD	QC413923	Soil	131365	11/06/07 17:26	1.0	4 2
014	310_014	CCV	BTXE			11/06/07 18:02	1.0	3 2
015	310_015	CCV	TVH			11/06/07 18:38	1.0	4 2
016	310_016	X	CCV			11/06/07 19:14	1.0	3 2
017	310_017	X	CCV			11/06/07 19:49	1.0	4 2
018	310_018	X	CMARK			11/06/07 20:25	1.0	1 2
019	310_019	SAMPLE	198903-002	Soil	131365	11/06/07 21:01	1.0	2
020	310_020	SAMPLE	198903-003	Soil	131365	11/06/07 21:37	1.0	2
021	310_021	SAMPLE	198903-006	Soil	131365	11/06/07 22:13	1.0	2
022	310_022	SAMPLE	198986-033	Soil	131365	11/06/07 22:48	1.0	2
023	310_023	SAMPLE	198986-034	Soil	131365	11/06/07 23:24	1.0	2
024	310_024	SAMPLE	198986-035	Soil	131365	11/07/07 00:00	1.0	2
025	310_025	SAMPLE	198986-036	Soil	131365	11/07/07 00:36	1.0	2
026	310_026	SAMPLE	198986-037	Soil	131365	11/07/07 01:12	1.0	2
027	310_027	SAMPLE	198986-076	Soil	131365	11/07/07 01:47	1.0	2
028	310_028	CCV	TVH			11/07/07 02:23	1.0	4 2
029	310_029	X	CCV			11/07/07 02:59	1.0	4 2
030	310_030	X	CMARK			11/07/07 03:35	1.0	1 2
031	310_031	X	IB			11/07/07 04:11	1.0	2
032	310_032	IB	CALIB			11/07/07 04:46	1.0	2
033	310_033	ICAL	BTXE_1			11/07/07 05:22	1.0	5 2
034	310_034	ICAL	MBTXE_2			11/07/07 05:58	1.0	6 2
035	310_035	ICAL	MBTXE_3			11/07/07 06:34	1.0	6 2
036	310_036	ICAL	MBTXE_4			11/07/07 07:10	1.0	6 2
037	310_037	ICAL	MBTXE_5			11/07/07 07:45	1.0	7 2
038	310_038	ICAL	MBTXE_6			11/07/07 08:21	1.0	7 2
039	310_039	ICAL	MBTXE_7			11/07/07 08:57	1.0	7 2
040	310_040	ICAL	MTBE_7			11/07/07 09:33	1.0	8 2
041	310_041	X	IB			11/07/07 10:08	1.0	2
042	310_042	X	ICAL			11/07/07 10:44	1.0	5 2
043	310_043	ICV	MBTXE			11/07/07 12:10	1.0	9 2

Analyst: MJM Date: 11/07/07 Reviewer: LH Date: 11/08/07

Standards used: 1=S7569 2=S7356 3=S7564 4=S7423 5=S7260 6=S7258 7=S7257 8=S6302 9=S7263

REPORTING SUMMARY FOR 198903 GCVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
198903-001	GC07	11/06/07 16:15	1.0	+	+	+	
198903-002	GC07	11/06/07 21:01	1.0	+	+	+	
198903-003	GC07	11/06/07 21:37	1.0	+	+	+	
198903-006	GC07	11/06/07 22:13	1.0	+	+	+	
198903-007	GC04	11/07/07 20:11	1.0	+	+	+	
QC413919	GC07	11/06/07 12:37	1.0	+	+	+	
QC413920	GC07	11/06/07 10:54	1.0				
QC413921	GC07	11/06/07 10:05	1.0	+	+	+	
QC413922	GC07	11/06/07 16:50	1.0	+	+	+	
QC413923	GC07	11/06/07 17:26	1.0	+	+	+	
QC414202	GC04	11/07/07 19:34	1.0	+	+	+	
QC414203	GC04	11/07/07 15:11	1.0				
QC414204	GC04	11/07/07 15:49	1.0	+	+	+	
QC414205	GC04	11/07/07 23:19	1.0	+	+	+	
QC414206	GC04	11/07/07 23:57	1.0	+	+	+	

Project TVH/BTKE SOIL PREP BK2583

Continued from Page —

SAMPLE ID	CORE ID	JAR	WEIGHT(g)	COMP(%)	$NaHSO_4$(%)	COMMENTS
198837-001	A		0.99	NO	NO	MOM 10/31/07
MS:	↓	↓	1.03			
MSD:	↓	↓	1.02			
198843-001	A		1.02	↓	↓	
198829-003	B		4.32	NO	NO	PDM 11/01/07
198864-001	A		1.04	NO	NO	MOM 11/1/07
198880-001	↓	↓	5.92	↓	↓	↓
-002			0.97			
198881-003			0.99			
-004			0.98			
-005			1.04			
-006			1.02			
-007			1.01			
-008			1.06			
-010			1.04			
-011			1.03			
-012			1.02			
-015			1.04			
-016			1.03			
-017			0.99			
MS:			1.05			
MSD:	↓	↓	1.01			
198899-002	A		1.00	↓	↓	
198900-005	COMP		1.04	Yes	NO	↓ Comp 1A-4A @ 5g each
198837-001	A		1.04	NO	NO	MOM 11/2/07
198880-002			1.04			
198900-001			0.98			
-002			1.04			
-003			1.00			
-004	↓		1.05			
198903-001	D		6.17			
MS:	E		5.27			
MSD:	F		6.16			
-002	C		6.67			
-003	B		6.60			
-006	B		5.43	↓	↓	↓

Continued on Page

Signed — Date — Read and Understood By — Signed — Date

Project TVH/BTXE SOIL PREP LOG BK2583

Continued from Page

SAMPLE ID / CORE ID / JAR	WEIGHT (g)	COMP (Z)	NaHSO4 (Y)	COMMENTS
198908-002 A	1.03	NO	NO	MSM 11/2/07
-006	1.03			
-009	0.95			
-010	0.99			
-011	0.97			
198929-002 A	0.97	NO	NO	PdM 11/2/07
-003	0.93			
-005	0.91			
-006	1.01			
198929-005 A MS	1.00	NO	NO	MSM 11/2/07
MSD	1.01			
198542-002 A	0.94	NO	NO	PdM 11/5/07
198755-001	1.02			
MS	0.91			
MSD	1.03			
-002	1.06			
-004	1.04			
198910-001 A	0.94			
198880-001 D	6.91			
198959-016 A	1.01	NO	NO	MSM 11/5/07
MS	1.02			
MSD	1.05			
-017	1.01			
-018	1.05			
-019	1.01			
-020	1.01			
-021	0.98			
-022	1.00			
-023	0.98			
-024	1.00			
-025	1.03			
-026	1.04			
-027	0.98			
-028	1.03			
-029	1.03			
-030	0.99			

Continued on Page

MSM — 11/5/07

Signed — Date

Read and Understood By

Signed — Date

Project TVH/BTXE SOIL PREP BK2583

Continued from Page ←

SAMPLE ID / CORE ID / STAR	WEIGHT (g)	COMP (%)	NaHSO4 (%)	COMMENTS
198959-001 A	1.00	NO	NO	MSM 11/5/07
MS:	1.04			
MSD:	0.98			
-002	1.04			
-003	0.98			
-004	1.00			
-005	1.04			
-006	0.98			
-007	0.99			
-008	1.01			
-009 MSM 11/5/07	~~0.97~~ 1.01			
-010	1.02 0.97			
-011	0.97 1.02			
-012	~~1.02~~ 0.97			
-013	1.02			
-014 MSM 11/5/07	~~0.95~~ 1.02			
-015 MSM 11/5/07	0.95			
198951 -016 -001 A	1.05			Alias of 198548-012A
198957-010 A	0.99			
-011	1.02			
-012	0.99			
MS: 198903 -001 G	4.28			
MSD: H	6.04			
198984-001 A	0.99	NO	NO	MSM 11/6/07
198959-016	1.01			
MSD:	1.00			
198959-018 A	1.00			
-019	1.03			
-020	0.99			
-023	1.04			
-026	1.03			
-027	1.01			
-031	0.99			
-032	1.03			
-033	1.03			
-034	1.01			

Continued on Page

MGM — Signed

11/5/07 — Date

Read and Understood By

Signed — Date

Project TVH/BTXE SOIL PREP LOG BK2583

Continued from Page —

SAMPLE ID/CORE ID/JAR	WEIGHT (g)	COMP (2)	$NaHSO_4$ (2)	COMMENTS
198959-035 A	1.03	NO	NO	MSM 11/6/07
MS : ↓ ↓ ↓	1.00			
MSD : ↓ ↓ ↓	1.02			
198986-031 A	1.01			
-032	1.01			
-033	1.01			
-034	0.99			
-035	1.01			
-036	1.03			
-037	1.03			
-076 ↓	1.03	↓	↓	↓

Continued on Page

MSM — Signed

11/6/07 — Date

Read and Understood By

Signed

Date

Project TVH/BTXE SOIL PREP LOG BK2583

Continued from Page —

SAMPLE ID/CORE ID/JAR	WEIGHT (g)	COMP (2)	$NaHSO_4$ (2)	COMMENTS
198959-035 A	1.03	NO	NO	MJM 11/6/07
MS:	1.00			
MSD:	1.02			
198986-031 A	1.01			
-032	1.01			
-033	1.01			
-034	0.99			
-035	1.01			
-036	1.03			
-037	1.03			
-076	1.03			
199008-001 A	1.04	NO	NO	11/7/07 MJM
MS:	0.99			
MSD:	1.03			
-002	0.98			
-003	0.99			
-004	0.98			
-005	1.00			
-006	1.05			
-007	0.99			
-008	1.01			
-009	↓			
-010	1.04			
-011	0.97			
-012	1.02			
-013	1.05			
-014	1.01			
-015	0.99			
-017	1.01			
-018	1.04			
-019	1.02			
-020	0.99			
-021	1.03			
-022	0.97			
-023	1.00			
-024	0.98			

Continued on Page

MJM — 11/6/07

Signed — Date

Read and Understood By

Signed — Date

Project TVH/BTXE SOIL PREP BK2583

Continued from Page —

SAMPLE ID/CORE ID/JAR	WEIGHT(g)	COMP(%)	Na2SO4(%)	COMMENTS
195903-007B	4.99	NO	NO	MJM 11/7/07
MS: 199025-006 A	1.00	↓	↓	↓
MSD: ↓ ↓ ↓	1.02	↓	↓	↓
199013 - 001 A	1.04	NO	NO	PdN 11/8/07
↓ - 002 ↓	0.96	↓	↓	↓
199025-001 A	1.00	NO	NO	MJM 11/8/07 postdated for 11/7/07
MS: ↓	↓	↓	↓	↓
MSD: ↓	↓	↓	↓	↓
-002	1.02			
-003	1.01			
-004	1.00			
-005	1.05			
-006	0.97			
-007	1.02			
-008	1.03			
-009	0.99			
-010	1.02			
-011	0.98			
-012	0.98			
-013	1.05			
-014	0.99			
-015	0.97			
-018	1.00	↓	↓	↓

Continued on Page

MJM — Signed

11/7/07 — Date

Read and Understood By

Signed

Date

TPH-EXTRACTABLE HYDROCARBONS IN WATER

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX360RB361	Batch#:	131332
Matrix:	Water	Sampled:	11/01/07
Units:	ug/L	Received:	11/01/07
Diln Fac:	1.000	Prepared:	11/05/07

Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198903-004	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	50	11
Fuel Oil C24-C36	ND	300	56

Surrogate	%REC	Limits
Hexacosane	93	65-135

Type:	BLANK	Analyzed:	11/06/07
Lab ID:	QC413786	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	50	11
Fuel Oil C24-C36	ND	300	56

Surrogate	%REC	Limits
Hexacosane	92	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

49.0

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	131332
Units:	ug/L	Prepared:	11/05/07
Diln Fac:	1.000	Analyzed:	11/06/07

Type: BS
Lab ID: QC413787
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,291	92	65-135

Surrogate	%REC	Limits
Hexacosane	96	65-135

Type: BSD
Lab ID: QC413788
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,247	90	65-135	2	35

Surrogate	%REC	Limits
Hexacosane	93	65-135

RPD= Relative Percent Difference

50.0

00070

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 117061448001

Name : Diesel
Cal Date : 11-FEB-2007

ICV 117061448016 (042a016 12-FEB-2007) stds: S5419 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	58249	55207	500.0	473.9	mg/L	-5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Water
EPA 8015B

Inst : GC11A Run Name : DSL_500 IDF : 1.0
Seqnum : 117447306003 File : 310a003 Time : 06-NOV-2007 16:02
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	58236	500.0	499.9	mg/L	0	15	
Hexacosane	117245263001	19-JUN-2007	69898	65734	50.00	47.02	mg/L	-6	15	

Analyst: ZA Date: 11/06/07 Reviewer: JDG Date: 11/07/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Water
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117447306004 File : 310a004 Time : 06-NOV-2007 16:30
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	39066	500.0	471.2	mg/L	-6	15	
Hexacosane	117245263001	19-JUN-2007	69898	66639	50.00	47.67	mg/L	-5	15	

Analyst: ZA Date: 11/06/07 Reviewer: JDG Date: 11/07/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Water
EPA 8015B

Inst : GC11A Run Name : DSL_250 IDF : 1.0
Seqnum : 117447306018 File : 310a018 Time : 06-NOV-2007 23:04
Standards: S7540

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	63772	250.0	273.7	mg/L	9	15	
Hexacosane	117245263001	19-JUN-2007	69898	67485	50.00	48.27	mg/L	-3	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117447306018

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Water
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117447306019 File : 310a019 Time : 06-NOV-2007 23:32
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	38413	500.0	463.3	mg/L	-7	15	
Hexacosane	117245263001	19-JUN-2007	69898	65505	50.00	46.86	mg/L	-6	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117447306019

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Water
EPA 8015B

Inst : GC11A Run Name : DSL_1000 IDF : 1.0
Seqnum : 117447306038 File : 310a038 Time : 07-NOV-2007 08:25
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	58625	1000	1006	mg/L	1	15	
Hexacosane	117245263001	19-JUN-2007	69898	69086	50.00	49.42	mg/L	-1	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117447306038

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Water
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117447306039 File : 310a039 Time : 07-NOV-2007 08:53
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	38978	500.0	470.1	mg/L	-6	15	
Hexacosane	117245263001	19-JUN-2007	69898	67404	50.00	48.22	mg/L	-4	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117447306039

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117037956

Instrument : GC11A
Method : EPA 8015B

Begun : 01/26/07 08:36
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	026a001	X	IB			01/26/07 08:36	1.0	
002	026a002	XCCV	DSL_500			01/26/07 09:04	1.0	1
003	026a003	XCCV	MO_500			01/26/07 09:32	1.0	2
006	026a006	X	HEX_5			01/26/07 16:57	1.0	
007	026a007	X	IB			01/26/07 17:25	1.0	
008	026a008	CMARKER	C8-C50			01/26/07 17:55	1.0	3
009	026a009	X	CALIB			01/26/07 18:22	1.0	
010	026a010	XICAL	DSL_10			01/26/07 18:50	1.0	4
011	026a011	XICAL	DSL_100			01/26/07 19:18	1.0	5
012	026a012	XICAL	DSL_500			01/26/07 19:46	1.0	6
013	026a013	XICAL	DSL_1000			01/26/07 20:14	1.0	7
014	026a014	XICAL	DSL_5000			01/26/07 20:42	1.0	8
015	026a015	XICAL	DSL_7500			01/26/07 21:10	1.0	9
016	026a016	X	IB			01/26/07 21:38	1.0	
017	026a017	XICV	DSL_500			01/26/07 22:06	10.0	10
018	026a018	XICV	DSL_500			01/26/07 22:34	10.0	10
019	026a019	IB	CALIB			01/26/07 23:02	1.0	
020	026a020	ICAL	MO_50			01/26/07 23:30	1.0	11
021	026a021	ICAL	MO_250			01/26/07 23:58	1.0	12
022	026a022	ICAL	MO_500			01/27/07 00:26	1.0	13
023	026a023	ICAL	MO_1000			01/27/07 00:54	1.0	14
024	026a024	ICAL	MO_5000			01/27/07 01:22	1.0	15
025	026a025	IB	CALIB			01/27/07 01:50	1.0	
026	026a026	ICAL	HEX_5			01/27/07 02:18	1.0	16
027	026a027	ICAL	HEX_10			01/27/07 02:46	1.0	17
028	026a028	ICAL	HEX_25			01/27/07 03:14	1.0	18
029	026a029	ICAL	HEX_50			01/27/07 03:42	1.0	19
030	026a030	ICAL	HEX_100			01/27/07 04:10	1.0	20
031	026a031	ICAL	HEX_200			01/27/07 04:38	1.0	21
032	026a032	IB	CALIB			01/27/07 05:06	1.0	
033	026a033	ICAL	BUNK_50			01/27/07 05:35	1.0	22
034	026a034	ICAL	BUNK_500			01/27/07 06:03	1.0	23
035	026a035	ICAL	BUNK_1250			01/27/07 06:31	1.0	24
036	026a036	ICAL	BUNK_2500			01/27/07 06:59	1.0	25
037	026a037	ICAL	BUNK_5000			01/27/07 07:27	1.0	26
038	026a038	IB	CALIB			01/27/07 07:55	1.0	
039	026a039	ICAL	JP5_10			01/27/07 08:23	1.0	27
040	026a040	ICAL	JP5_100			01/27/07 08:52	1.0	28
041	026a041	ICAL	JP5_500			01/27/07 09:20	1.0	29
042	026a042	ICAL	JP5_1500			01/27/07 09:48	1.0	30
043	026a043	ICAL	JP5_3000			01/27/07 10:16	1.0	31
044	026a044	ICAL	JP5_5000			01/27/07 10:44	1.0	32
045	026a045	X	IB			01/27/07 11:12	1.0	

CP 01/29/07 : Need to re-run diesel ical. standards have concentrated and need to be re-made then re-run.

Analyst: CP Date: 01/29/07 Reviewer: MCH Date: 01/29/07

Standards used: 1=S5157 2=S5274 3=S4049 4=S4854 5=S4540 6=S4542 7=S4543 8=S4538 9=S4694 10=S4615 11=S4754 12=S4755 13=S4756 14=S4758 15=S4753 16=S4639 17=S4640 18=S4641 19=S5402 20=S4644 21=S4645 22=S4708 23=S4709 24=S4710 25=S4711 26=S4712 27=S4284 28=S4285 29=S4286 30=S4287 31=S4288 32=S4283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117061448

Instrument : GC11A
Method : EPA 8015B

Begun : 02/11/07 16:08
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	042a001	X	IB			02/11/07 16:08	1.0	
002	042a002	X	DSL_500			02/11/07 16:35	1.0	1
003	042a003	X	MO_500			02/11/07 17:03	1.0	2
004	042a004	X	MO_500			02/11/07 17:47	1.0	2
005	042a005	CCV	MO_500			02/11/07 18:33	1.0	2
006	042a006	CCV	DSL_500			02/11/07 19:02	1.0	1
007	042a007	CCV	DSL_500			02/11/07 19:30	1.0	1
008	042a008	X	IB			02/11/07 20:45	1.0	
009	042a009	ICAL	DSL_10			02/11/07 21:13	1.0	3
010	042a010	ICAL	DSL_100			02/11/07 21:41	1.0	4
011	042a011	ICAL	DSL_500			02/11/07 22:09	1.0	5
012	042a012	ICAL	DSL_1000			02/11/07 22:37	1.0	6
013	042a013	ICAL	DSL_5000			02/11/07 23:05	1.0	7
014	042a014	ICAL	DSL_7500			02/11/07 23:33	1.0	8
015	042a015	IB	CALIB			02/12/07 00:01	1.0	
016	042a016	ICV	DSL_500			02/12/07 00:28	1.0	9
017	042a017	XICV	DSL_500			02/12/07 00:57	1.0	9
018	042a018	X	IB			02/12/07 01:24	1.0	
019	042a019	CMARKER	C8-C50			02/12/07 09:23	1.0	10

CP 02/12/07 : carbon markers run after ical.

Analyst: CP Date: 02/12/07 Reviewer: MCH Date: 02/12/07

Standards used: 1=S5517 2=S4886 3=S5413 4=S5414 5=S5416 6=S5417 7=S5411 8=S5412 9=S5419 10=S4049

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117245263

Instrument : GC11A
Method : EPA 8015B

Begun : 06/19/07 07:43
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	170a001	X	PRIMER			06/19/07 07:43	1.0	
002	170a002	X	IB			06/19/07 08:11	1.0	
003	170a003	CMARKER	C8-C50			06/19/07 08:40	1.0	1
004	170a004	X	DSL_500			06/19/07 09:08	1.0	2
005	170a005	X	MO_500			06/19/07 09:36	1.0	3
006	170a006	X	MO_500			06/19/07 11:15	1.0	3
008	170a008	X	IB			06/19/07 12:29	1.0	
009	170a009	X	CMARKER			06/19/07 12:57	1.0	1
010	170a010	X	DSL_500			06/19/07 13:24	1.0	2
011	170a011	X	MO_500			06/19/07 13:52	1.0	3
012	170a012	IB	CALIB			06/19/07 15:16	1.0	
013	170a013	ICAL	HEX_5			06/19/07 15:44	1.0	4
014	170a014	ICAL	HEX_10			06/19/07 16:12	1.0	5
015	170a015	ICAL	HEX_25			06/19/07 16:39	1.0	6
016	170a016	ICAL	HEX_50			06/19/07 17:07	1.0	7
017	170a017	ICAL	HEX_100			06/19/07 17:35	1.0	8
018	170a018	ICAL	HEX_200			06/19/07 18:03	1.0	9
019	170a019	X	IB			06/19/07 18:30	1.0	

Analyst: DLM Date: 06/19/07 Reviewer: CW Date: 06/20/07

Standards used: 1=S4049 2=S6346 3=S6046 4=S5751 5=S5752 6=S5753 7=S5754 8=S5755 9=S5756

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117447306

Instrument : GC11A
Method : EPA 8015B

Begun : 11/06/07 15:06
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	310a001	X	IB				11/06/07 15:06	1.0		
002	310a002	X	CMARKER				11/06/07 15:34	1.0	1	
003	310a003	CCV	DSL_500				11/06/07 16:02	1.0	2	
004	310a004	CCV	MO_500				11/06/07 16:30	1.0	3	
005	310a005	CCV	JP5_250				11/06/07 16:59	1.0	4	
006	310a006	CCV	BUNK_1250				11/06/07 17:27	1.0	5	
007	310a007	BS	QC413787	S	Water	131332	11/06/07 17:55	1.0		
008	310a008	BSD	QC413788	S	Water	131332	11/06/07 18:23	1.0		
009	310a009	BLANK	QC413786	S	Water	131332	11/06/07 18:51	1.0		
010	310a010	SAMPLE	198925-003	S	Water	131332	11/06/07 19:19	1.0		
011	310a011	SAMPLE	198925-001		Water	131332	11/06/07 19:48	1.0		
012	310a012	SAMPLE	198925-003		Water	131332	11/06/07 20:16	1.0		
013	310a013	SAMPLE	198948-001		Water	131332	11/06/07 20:44	1.0		
014	310a014	SAMPLE	198948-002		Water	131332	11/06/07 21:12	1.0		
015	310a015	SAMPLE	198948-003		Water	131332	11/06/07 21:40	1.0		14:BUNKC:12-40=22000
016	310a016	X	IB				11/06/07 22:08	1.0		
017	310a017	SAMPLE	198948-004		Water	131332	11/06/07 22:36	1.0		
018	310a018	CCV	DSL_250				11/06/07 23:04	1.0	6	
019	310a019	CCV	MO_500				11/06/07 23:32	1.0	3	
020	310a020	CCV	JP5_250				11/07/07 00:00	1.0	4	
021	310a021	CCV	BUNK_1250				11/07/07 00:28	1.0	5	
022	310a022	X	CCV				11/07/07 00:56	1.0	6	
023	310a023	X	CCV				11/07/07 01:24	1.0	3	
024	310a024	X	CCV				11/07/07 01:52	1.0	4	
025	310a025	X	CCV				11/07/07 02:20	1.0	5	
026	310a026	BS	QC413787		Water	131332	11/07/07 02:47	1.0		
027	310a027	BSD	QC413788		Water	131332	11/07/07 03:15	1.0		
028	310a028	BLANK	QC413786		Water	131332	11/07/07 03:44	1.0		
029	310a029	SAMPLE	198880-004	S	Water	131332	11/07/07 04:12	1.0		
030	310a030	SAMPLE	198903-004	S	Water	131332	11/07/07 04:40	1.0		
031	310a031	SAMPLE	198956-002	S	Water	131332	11/07/07 05:08	1.0		
032	310a032	SAMPLE	198957-010		Soil	131317	11/07/07 05:36	1.0		10:BUNKC:12-40=44000
033	310a033	SAMPLE	198957-012		Soil	131317	11/07/07 06:04	1.0		
034	310a034	SAMPLE	198957-011		Soil	131317	11/07/07 06:32	3.0		
035	310a035	X	IB				11/07/07 07:00	1.0		
036	310a036	SAMPLE	198814-002		Water	131332	11/07/07 07:28	1.0		
037	310a037	X	CMARKER				11/07/07 07:56	1.0	1	
038	310a038	CCV	DSL_1000				11/07/07 08:25	1.0	7	
039	310a039	CCV	MO_500				11/07/07 08:53	1.0	3	
040	310a040	CCV	JP5_250				11/07/07 09:21	1.0	4	
041	310a041	CCV	BUNK_1250				11/07/07 09:49	1.0	5	
042	310a042	SAMPLE	198948-003		Water	131332	11/07/07 10:26	20.0		
043	310a043	SAMPLE	198925-003		Water	131332	11/07/07 10:55	1.0		
044	310a044	SAMPLE	198925-001		Water	131332	11/07/07 11:23	1.0		
045	310a045	SAMPLE	198986-033		Soil	131364	11/07/07 12:12	2.0		
046	310a046	X	IB				11/07/07 13:42	1.0		
047	310a047	MS	QC413608		Soil	131287	11/07/07 14:09	1.0		
048	310a048	MSD	QC413609		Soil	131287	11/07/07 14:38	1.0		
049	310a049	X	IB				11/07/07 17:33	1.0		
050	310a050	SAMPLE	198986-030		Soil	131364	11/07/07 18:01	10.0		

Standards used: 1=S7307 2=S7541 3=S7310 4=S6929 5=S7350 6=S7540 7=S6809

REPORTING SUMMARY FOR 198903 GCSV Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
198903-004	GC11A	11/07/07 04:40	1.0	+	+	+	
QC413786	GC11A	11/06/07 18:51	1.0	+	+	+	
QC413786	GC11A	11/07/07 03:44	1.0				
QC413787	GC11A	11/06/07 17:55	1.0	+		+	
QC413787	GC11A	11/07/07 02:47	1.0				
QC413788	GC11A	11/06/07 18:23	1.0	+		+	
QC413788	GC11A	11/07/07 03:15	1.0				

SAMPLE PREPARATION SUMMARY

Batch # : 131332
Started By : DJT
Method : 3520C
Spike #1 ID : S7552
Prep Date : 05-NOV-2007
SOP Version : TEH_3520_rv11
Spike #2 ID : S7578
Analysis : TEH
Finished By : DJT
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198814-002		Water	500	2.5	1	0.005	7	.5				TEHM	
198814-003		Water	500	2.5	1	0.005	7	.5				TEHM	
198880-004		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
198903-004		Water	500	2.5	1	0.005	3	.5			3630C	TEHM	
198925-001		Water	500	2.5	1	0.005	7	.5				(rebatched)	
198925-003		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
198948-001		Water	500	2.5	1	0.005	7	.5				TEHM	
198948-002		Water	500	2.5	1	0.005	7	.5				TEHM	
198948-003		Water	500	2.5	1	0.005	7	.5				TEHM	
198948-004		Water	500	2.5	1	0.005	7	.5				TEHM	
198956-002		Water	500	2.5	1	0.005	5	.5			3630C	TEHM	
QC413786	BLANK	Water	500	2.5	1	0.005		.5			3630C		
QC413787	BS	Water	500	2.5	1	0.005		.5	.5		3630C		
QC413788	BSD	Water	500	2.5	1	0.005		.5	.5		3630C		

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

Page 72 BK 2577

LIMS Batch No: 131332
LIMS Analysis: TEH/M
Date Extracted: 11/5/07

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Ge

	Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
	198814-002 V	500	7	2.5		
	↓ 003 V	↓	↓	↓		
	198880-004 C		↓		X	
	198903-004 J		3		↓	
5	198925-001 E		7			
	↓ 003 F		↓		X	
	198948-001 A					
	002					
	003					
10	↓ 004 ↓		↓			
	198956-002 E		5		X	
	MB QC413786		NA			
	BS 7					
	BSD ↓ 8	↓	↓	↓	↓	
15						
20						
						DDT 11/6/07

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S7552B	DDT 11/5/07
0.5 mL of TEH_SP was added to all spikes	S7578A	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS013967	↓
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM47118	↓
Extraction Start Time:	1645	↓
Extraction End Time:	1045	DDT 11/6/07
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	↓
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM47158737	↓
Concentrated to volumes as noted above	✓	↓
Relinquished to TEH Department	✓	↓

DDT 11/5/07
Extraction Chemist **Date**

Contined from Page /
Continued on Page /

11/6/07
Reviewed by **Date**

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: DST
Cleanup Date: 11/6/07

Benchbook # **2611**
Page 6

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
198880-004	131332	1.0	1.0	
198903-004	↓	↓	↓	
198925-003	↓	↓	↓	
198956-002	↓	↓	↓	
MB QC413786	↓	↓	↓	
BS ↓ 7	↓	↓	↓	
BSD ↓ 8	↓	↓	↓	
				JLM 11/6/07

☐ Extracts were cleaned up using C&T assembled — g columns
☒ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 4.0 mL CH_2Cl_2
Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
NA	DST 11/6/07
SP9092	↓
EM417178	
✓	

DST 11/6/07
Extraction Chemist / Date

Continued from page —
Continued on page —

JLM 11/6/07
Reviewed by / Date

TPH-EXTRACTABLES DATA

SOIL

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/01/07
Units:	mg/Kg	Received:	11/01/07

Field ID:	1065EX359[4.0]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	131280
Lab ID:	198903-001	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/05/07
Moisture:	16%	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	24 Y	1.2	0.24
Fuel Oil C24-C36	76	5.9	1.5

Surrogate	%REC	Limits
Hexacosane	95	65-135

Field ID:	1065EX360[4.0]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	131296
Lab ID:	198903-002	Prepared:	11/04/07
Basis:	dry	Analyzed:	11/06/07
Moisture:	16%	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	3.0 Y	1.2	0.18
Fuel Oil C24-C36	48	5.9	1.6

Surrogate	%REC	Limits
Hexacosane	91	65-135

Field ID:	DUP110107	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	131296
Lab ID:	198903-003	Prepared:	11/04/07
Basis:	dry	Analyzed:	11/06/07
Moisture:	15%	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	15 Y	5.8	0.89
Fuel Oil C24-C36	400	29	8.0

Surrogate	%REC	Limits
Hexacosane	100	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

64.2

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/01/07
Units:	mg/Kg	Received:	11/01/07

Field ID:	1065EX361[4.5]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	131296
Lab ID:	198903-006	Prepared:	11/04/07
Basis:	dry	Analyzed:	11/06/07
Moisture:	19%	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	2.3 Y	1.2	0.26
Fuel Oil C24-C36	8.7	6.1	1.6

Surrogate	%REC	Limits
Hexacosane	104	65-135

Field ID:	1065EX362[5.5]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	131364
Lab ID:	198903-007	Prepared:	11/06/07
Basis:	dry	Analyzed:	11/08/07
Moisture:	16%	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	2.7 Y	1.2	0.24
Fuel Oil C24-C36	14	6.0	1.5

Surrogate	%REC	Limits
Hexacosane	96	65-135

Type:	BLANK	Batch#:	131280
Lab ID:	QC413569	Prepared:	11/02/07
Basis:	as received	Analyzed:	11/05/07
Diln Fac:	1.000	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	0.99	0.20
Fuel Oil C24-C36	ND	5.0	1.2

Surrogate	%REC	Limits
Hexacosane	79	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

64.2

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/01/07
Units:	mg/Kg	Received:	11/01/07

Type:	BLANK	Batch#:	131296
Lab ID:	QC413624	Prepared:	11/04/07
Basis:	as received	Analyzed:	11/06/07
Diln Fac:	1.000	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	0.40 J	1.0	0.21
Fuel Oil C24-C36	ND	5.0	1.3

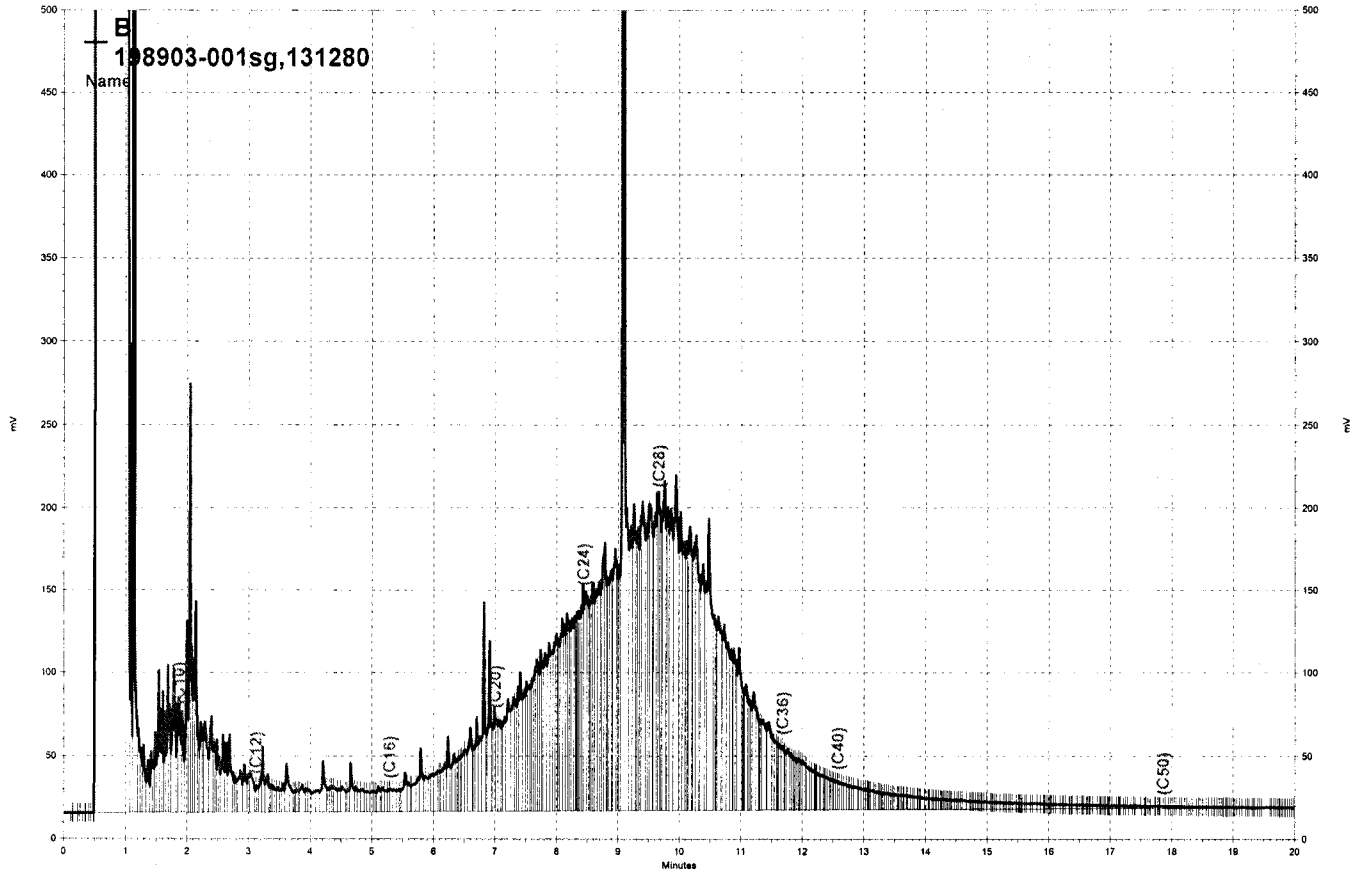
Surrogate	%REC	Limits
Hexacosane	102	65-135

Type:	BLANK	Batch#:	131364
Lab ID:	QC413934	Prepared:	11/06/07
Basis:	as received	Analyzed:	11/07/07
Diln Fac:	1.000	Cleanup Method:	EPA 3630C

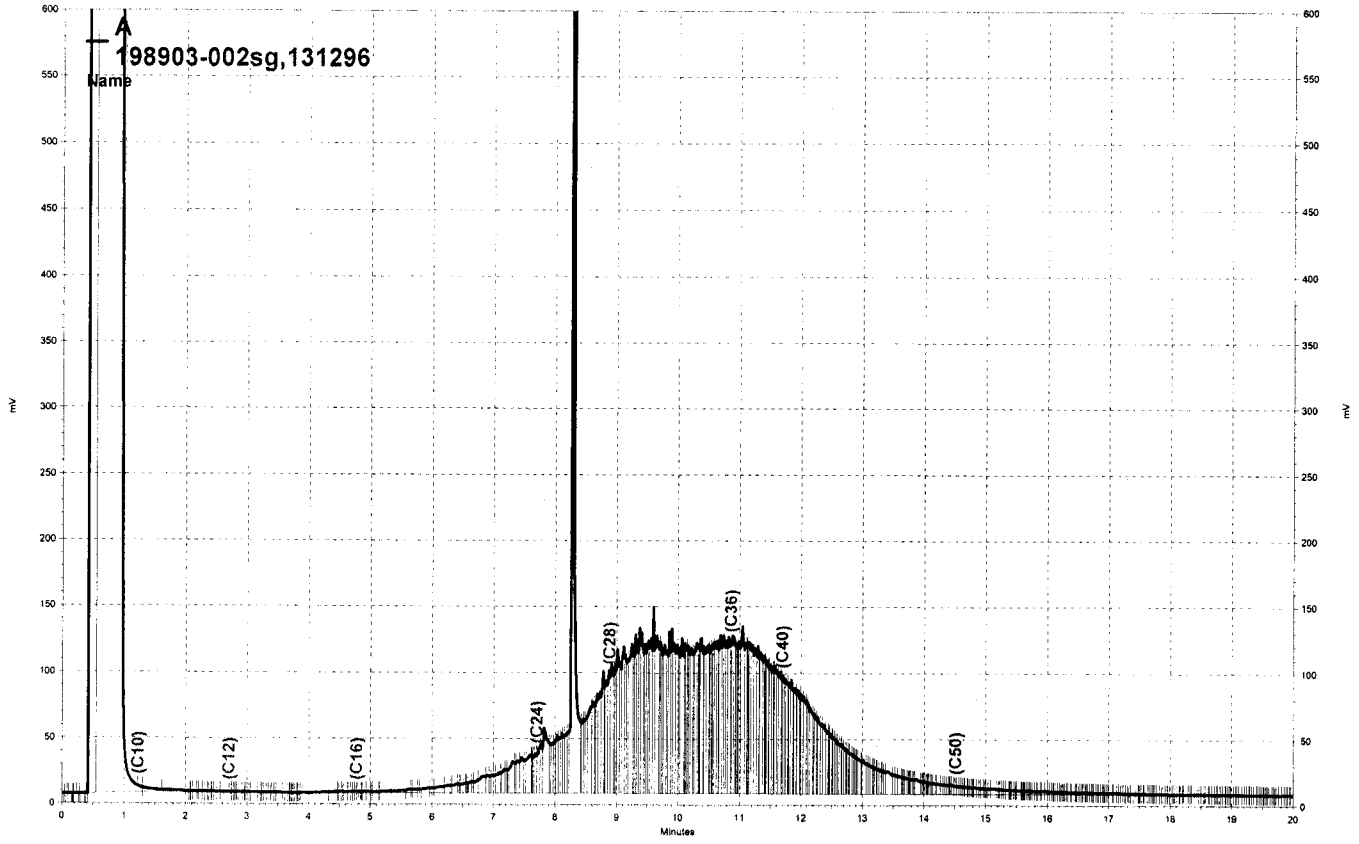
Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.15
Fuel Oil C24-C36	ND	5.0	1.4

Surrogate	%REC	Limits
Hexacosane	91	65-135

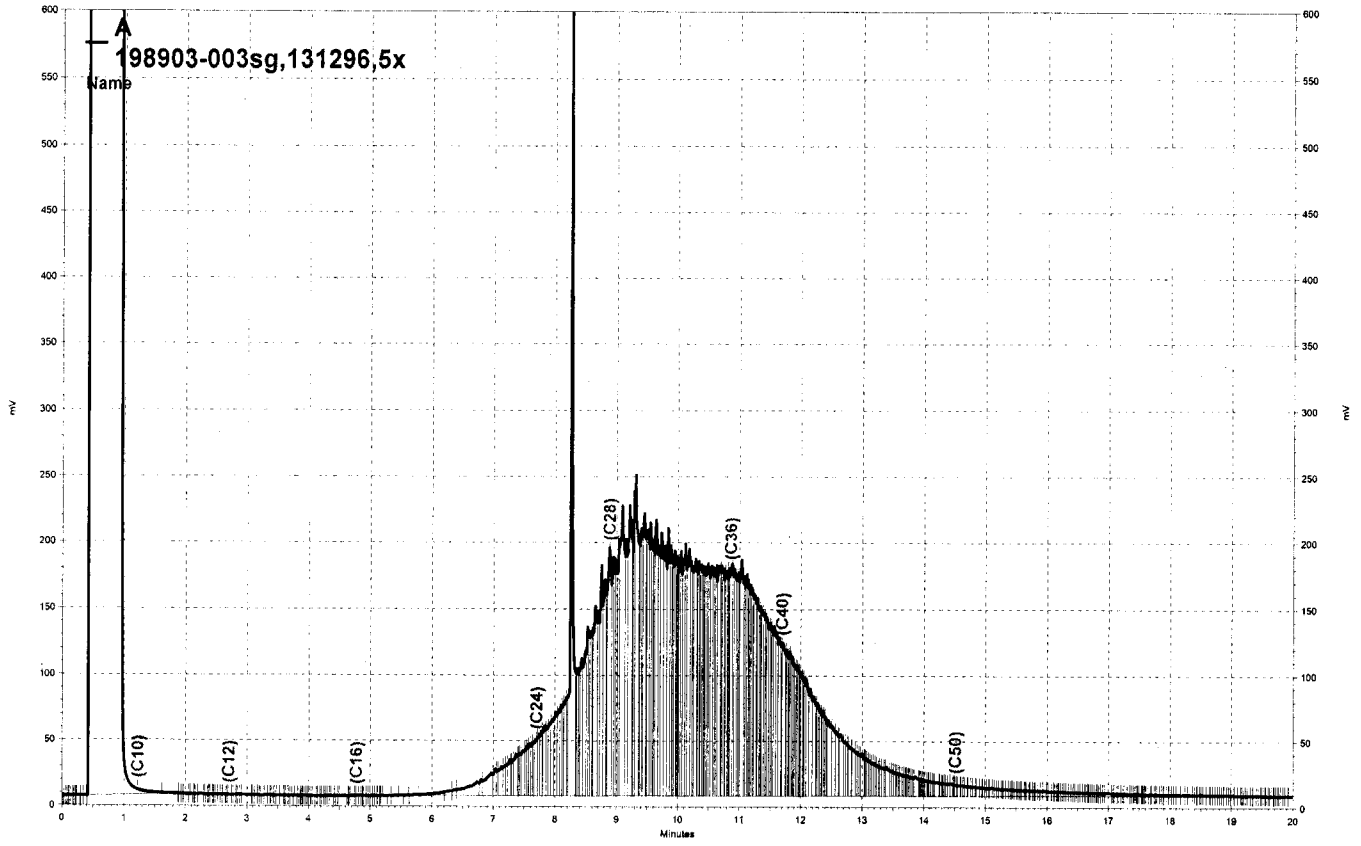
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



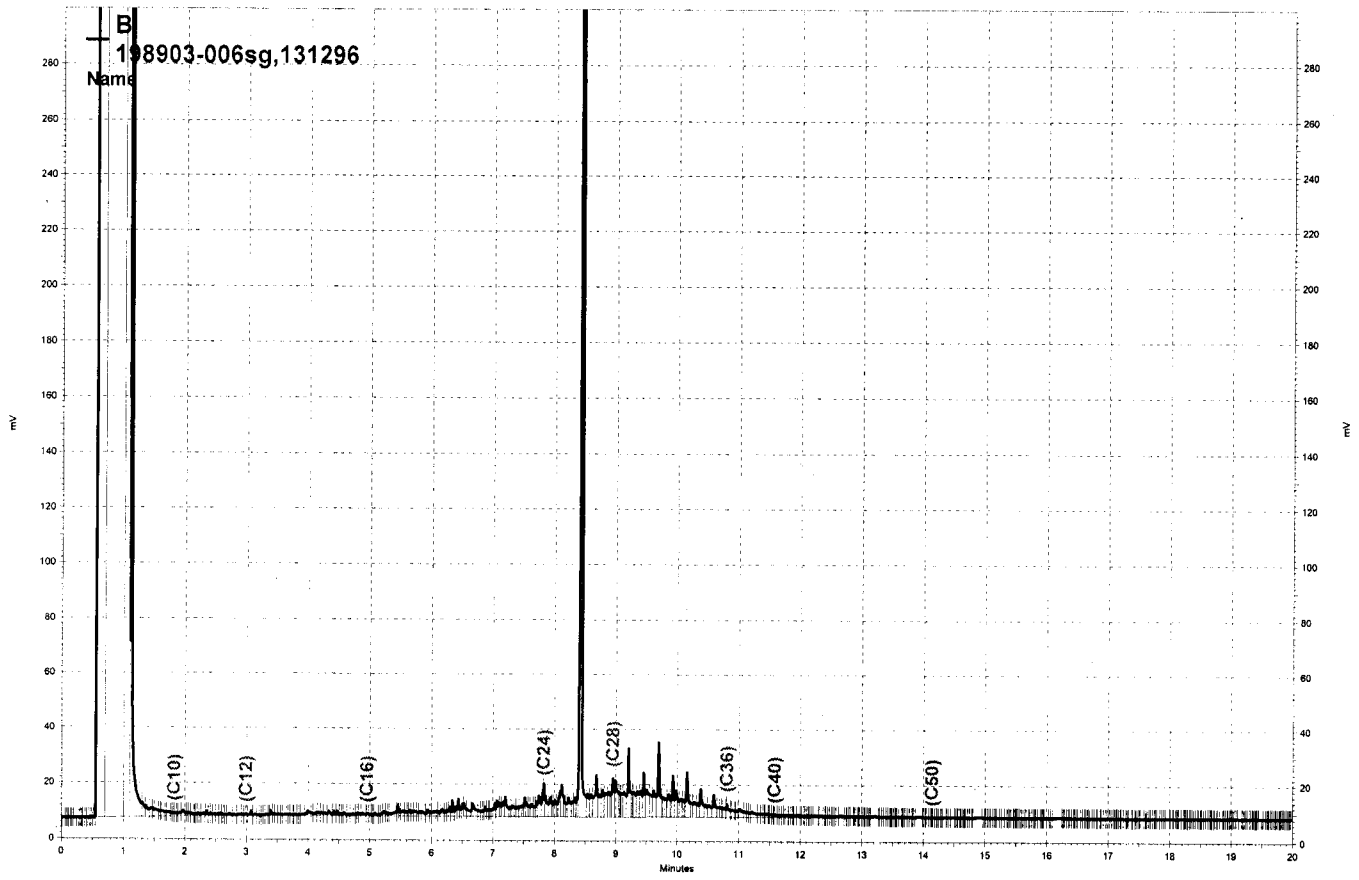
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\308b016, B



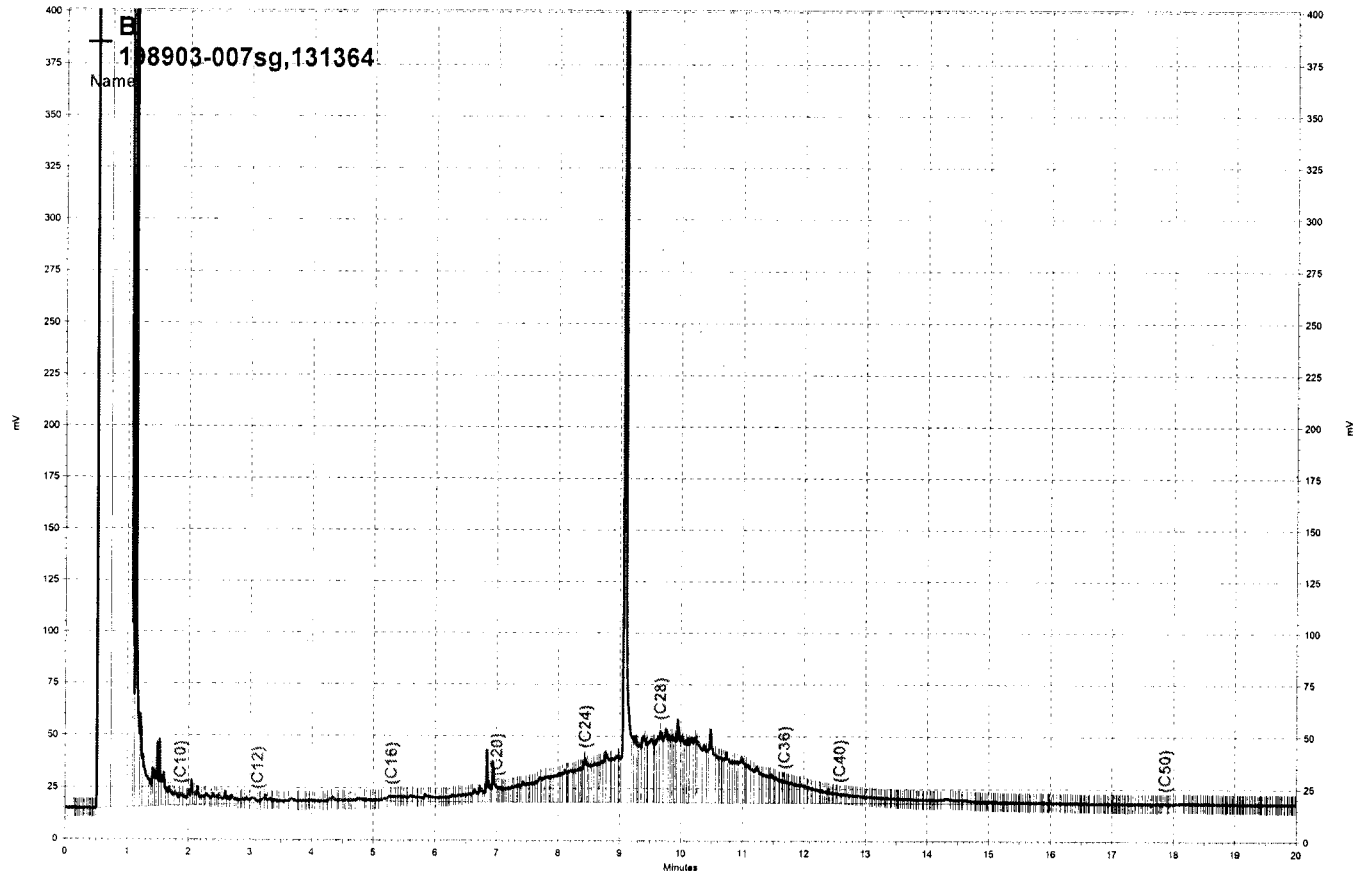
\\Lims\gdrive\ezchrom\Projects\GC11A\Data\305a137, A



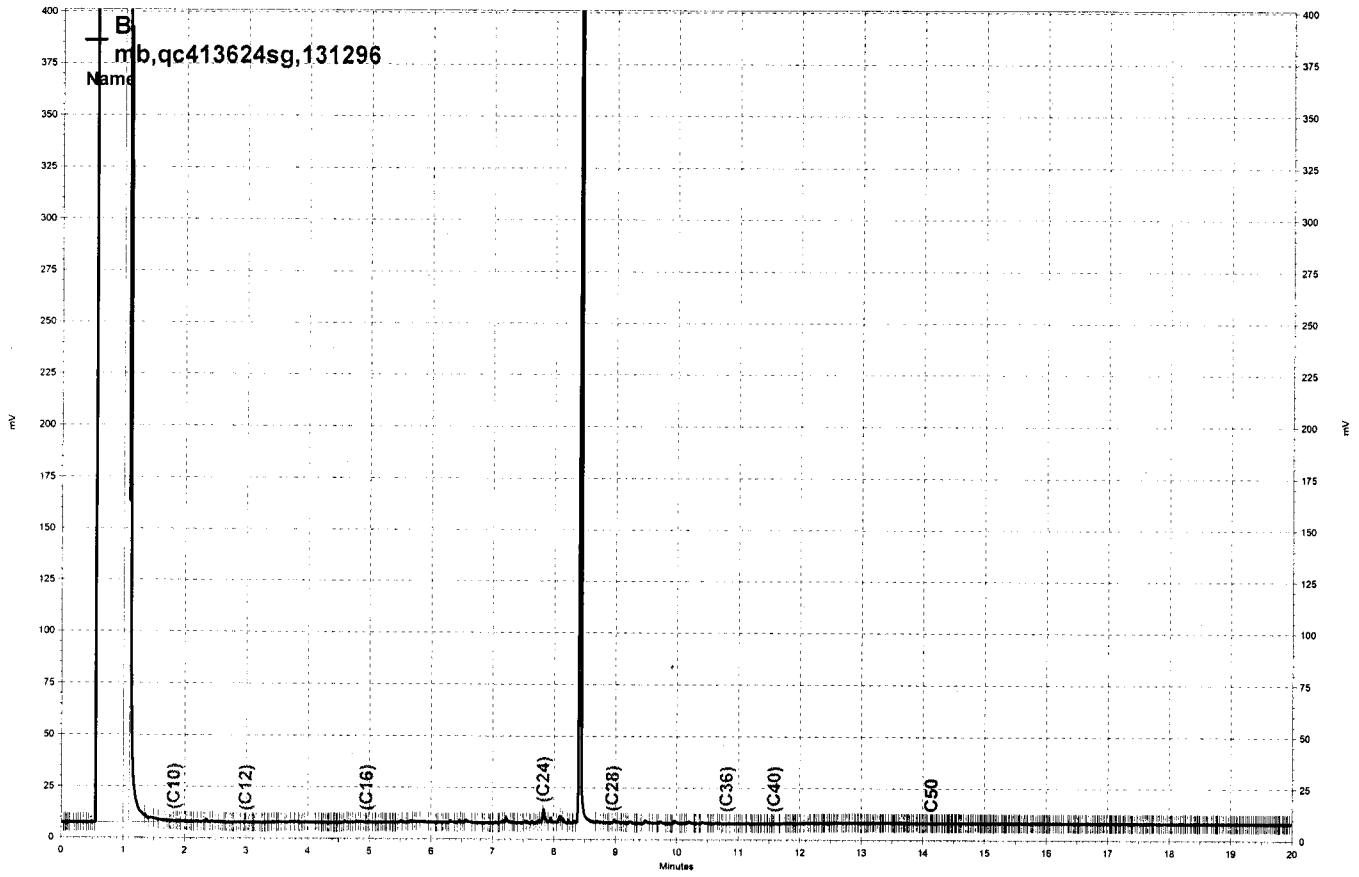
\\Lims\gdrive\ezchrom\Projects\GC11A\Data\305a138, A



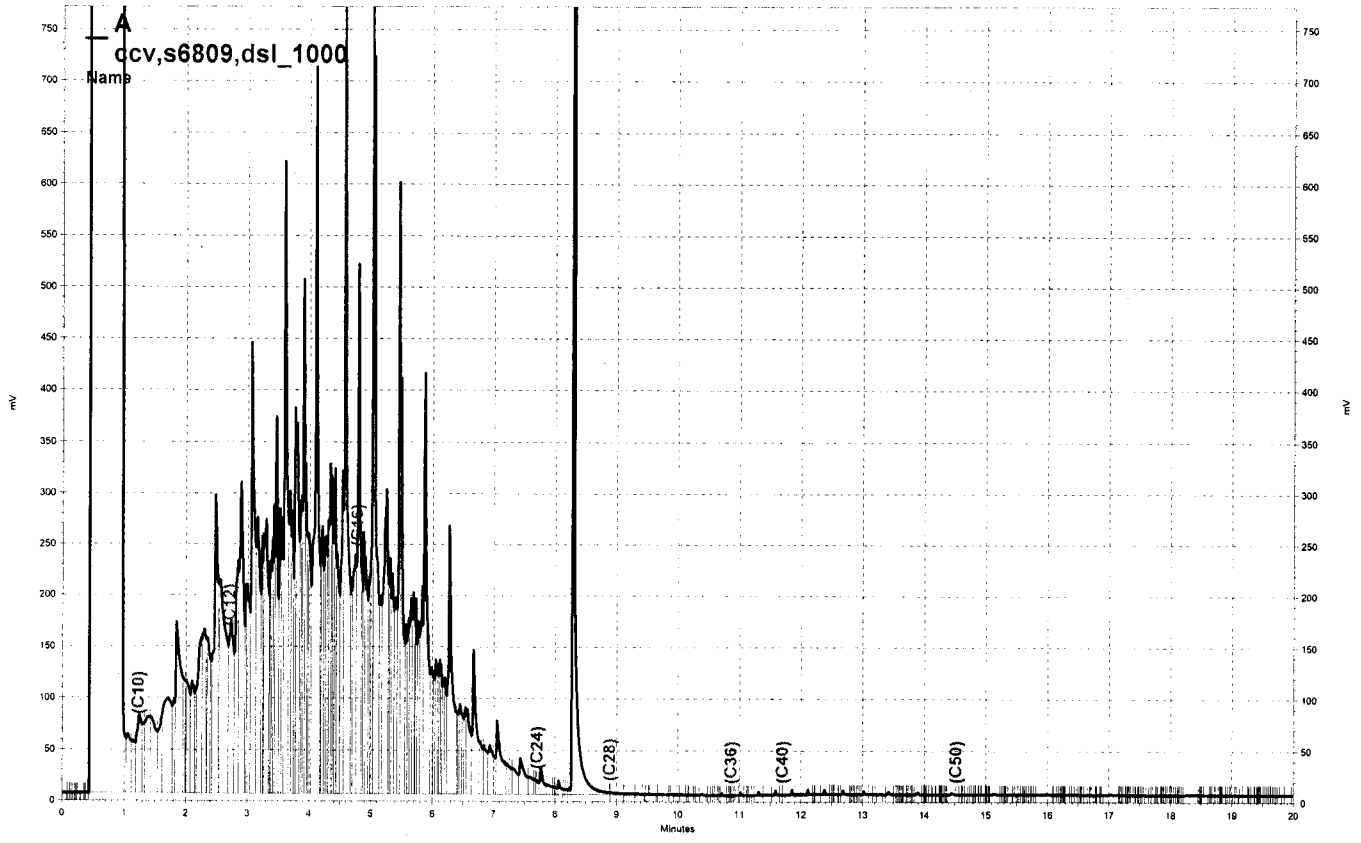
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\308b061, B



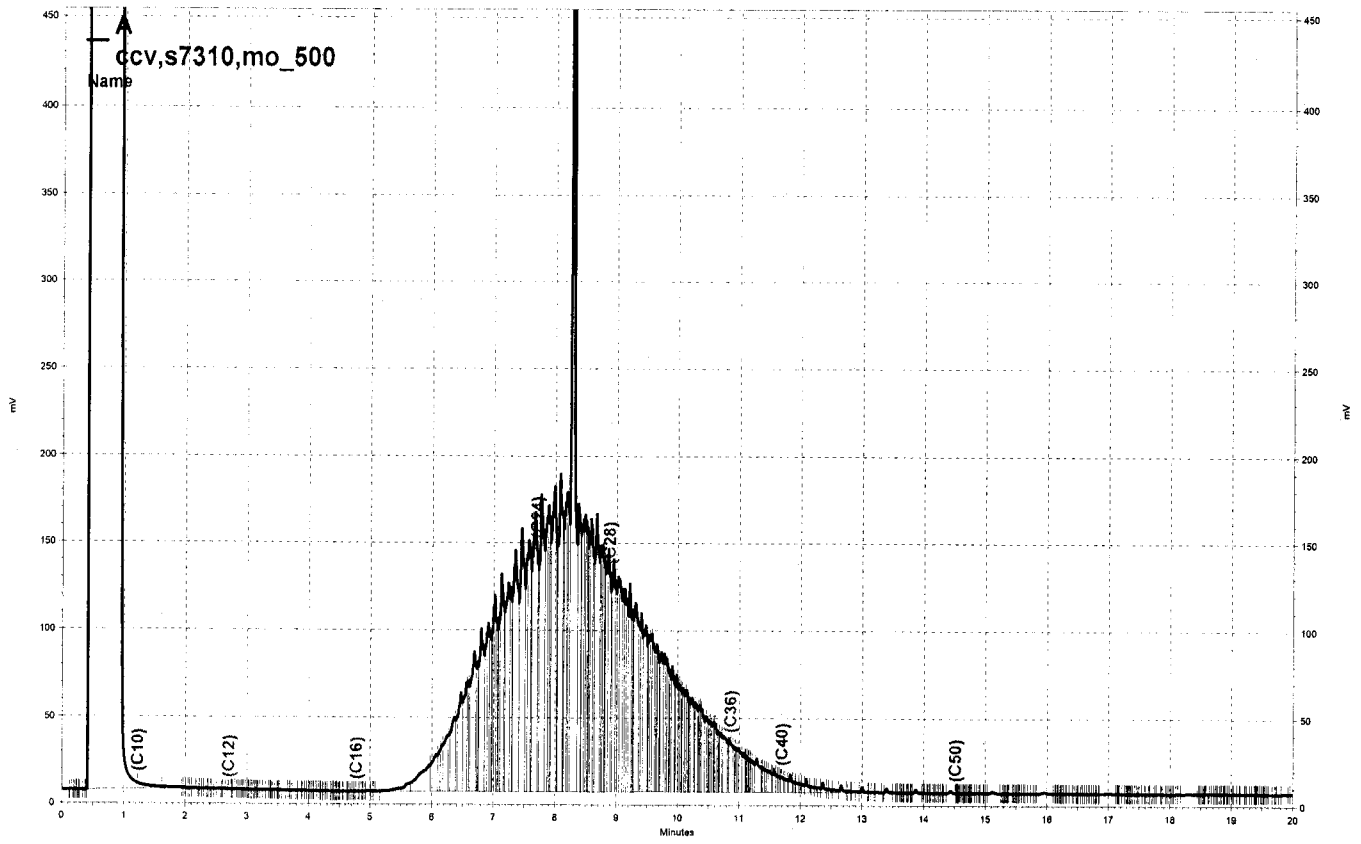
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\312b021, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\308b056, B



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\305a129, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\305a130, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413570	Batch#:	131280
Matrix:	Soil	Prepared:	11/02/07
Units:	mg/Kg	Analyzed:	11/05/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.69	41.86	84	65-135

Surrogate	%REC	Limits
Hexacosane	89	65-135

65.0

00101

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413625	Batch#:	131296
Matrix:	Soil	Prepared:	11/04/07
Units:	mg/Kg	Analyzed:	11/06/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.59	50.53	102	65-135

Surrogate	%REC	Limits
Hexacosane	99	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413935	Batch#:	131364
Matrix:	Soil	Prepared:	11/06/07
Units:	mg/Kg	Analyzed:	11/07/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.90	42.22	85	65-135

Surrogate	%REC	Limits
Hexacosane	90	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX359[4.0]	Batch#:	131280
MSS Lab ID:	198903-001	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC413571
Moisture: 16%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	23.61	59.49	63.96	68	65-135

Surrogate	%REC	Limits
Hexacosane	86	65-135

Type: MSD
Lab ID: QC413572
Moisture: 16%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	59.06	59.70	61 *	65-135	6	35

Surrogate	%REC	Limits
Hexacosane	80	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

66.0

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	131296
MSS Lab ID:	198956-001	Sampled:	11/02/07
Matrix:	Soil	Received:	11/02/07
Units:	mg/Kg	Prepared:	11/04/07
Basis:	dry	Analyzed:	11/06/07
Diln Fac:	1.000		

Type:	MS	Moisture:	11%
Lab ID:	QC413626	Cleanup Method:	EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	38.57	55.87	72.72	61 *	65-135

Surrogate	%REC	Limits
Hexacosane	82	65-135

Type:	MSD	Moisture:	11%
Lab ID:	QC413627	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	56.08	73.29	62 *	65-135	1	35

Surrogate	%REC	Limits
Hexacosane	96	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	131364
MSS Lab ID:	198974-004	Sampled:	11/05/07
Matrix:	Soil	Received:	11/05/07
Units:	mg/Kg	Prepared:	11/06/07
Basis:	dry	Analyzed:	11/07/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC413936

Moisture: 14%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	0.5667	58.14	47.27	80	65-135

Surrogate	%REC	Limits
Hexacosane	82	65-135

Type: MSD
Lab ID: QC413937

Moisture: 14%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	58.07	48.45	82	65-135	3	35

Surrogate	%REC	Limits
Hexacosane	83	65-135

RPD= Relative Percent Difference

87.0

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

117061448001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 GCSV Soil
EPA 8015B

Inst : GC11A
Calnum : 117061448001

Name : Diesel
Cal Date : 11-FEB-2007

ICV 117061448016 (042a016 12-FEB-2007) stds: S5419 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	58249	55207	500.0	473.9	mg/L	-5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183006
Units : mg/L

Name : dsl
Date : 10-OCT-2007 12:00
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_003	227408183003	DSL_10	10-OCT-2007 12:00	S6612
L2	283_004	227408183004	DSL_100	10-OCT-2007 12:29	S6613
L3	283_005	227408183005	DSL_500	10-OCT-2007 12:58	S6614
L4	283_006	227408183006	DSL_1000	10-OCT-2007 13:27	S6615
L5	283_007	227408183007	DSL_5000	10-OCT-2007 13:56	S6611
L6	283_008	227408183008	DSL_7500	10-OCT-2007 14:25	S6616

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	57537	63636	64700	63713	59922	65554	AVRG		1.60E-5		62510	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	B	10.00	-8	100.0	2	500.0	4	1000	2	5000	-4	7500	5

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 227408183006

Name : dsl
Cal Date : 10-OCT-2007

ICV 227408183010 (283_010 10-OCT-2007) stds: S6617 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	62510	57512	500.0	460.0	mg/L	-8	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183005
Units : mg/L

Name : Motor Oil
Date : 10-OCT-2007 16:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_012	227408183012	MO_50	10-OCT-2007 16:20	S6848
L2	283_013	227408183013	MO_250	10-OCT-2007 16:48	S6849
L3	283_014	227408183014	MO_500	10-OCT-2007 17:16	S6850
L4	283_015	227408183015	MO_1000	10-OCT-2007 17:44	S6851
L5	283_040	227408183040	MO_5000	11-OCT-2007 10:35	S6846

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	39282	41294	41437	39011	31093	AVRG		2.60E-5		38423	11	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	B	50.00	2	250.0	7	500.0	8	1000	2	5000	-19

Analyst: ATL Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183002
Units : mg/L

Name : HEX
Date : 10-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_019	227408183019	HEX_5	10-OCT-2007 19:38	S7036
L2	283_020	227408183020	HEX_10	10-OCT-2007 20:06	S7037
L3	283_021	227408183021	HEX_25	10-OCT-2007 20:34	S7038
L4	283_022	227408183022	HEX_50	10-OCT-2007 21:03	S7039
L5	283_023	227408183023	HEX_100	10-OCT-2007 21:31	S7040
L6	283_024	227408183024	HEX_200	10-OCT-2007 22:00	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	62663	62290	59838	61265	60611	52506	AVRG		1.67E-5		59862	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	5	10.00	4	25.00	0	50.00	2	100.0	1	200.0	-12

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Curtis & Tompkins Laboratories Sample Preparation Summary 12-NOV-2007 18:59

Batch Number : 131530
Date Extracted: 09-NOV-2007
Extracted by : Kevin Gaines
Prep Method : 3010A

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S6920
Spike #2 ID : S6921
Spike #3 ID :
SOP Version : 3010A_ICP_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198880-004			Mactec, Inc.	Water	50	mL	50	1.000000	1					ICAP		
198904-001			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-002			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-003			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-004			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-005			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198925-003			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
198999-005			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
198999-006			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
199007-002			Morton Salt	Water	50	mL	50	1.000000	1					CU, NI, PB, SE, ZN		
199027-001			SAIC	Water	50	mL	50	1.000000	1					CD, CR, CU, (more)		
199029-001			SAIC	Water	50	mL	50	1.000000	1					CD, CR, CU, (more)		
199033-009			Acme Fill Corp.	Water	50	mL	50	1.000000	1					CU, NI, PB, ZN		
199076-001			TRC Environmental Solutions, I	Water	50	mL	50	1.000000	1					ICAP		
199076-003			TRC Environmental Solutions, I	Water	50	mL	50	1.000000	1					ICAP		
QC414614	BLANK			Water	50	mL	50	1.000000	1					ICAP		
QC414615	BS			Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414616	BSD			Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414617	MS	of 198904-001		Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414618	MSD	of 198904-001		Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414619	SER	of 198904-001		Water	50	mL	50	1.000000	1					ICAP		
QC414620	PDS	of 198904-001		Water	50	mL	50	1.000000	1					ICAP		

00323

Prep Chemist: JF for KG 11/12/07 Reviewed By: JF Date: 11/12/07

Relinquished By: JF for KG 11/12/07 Received By: JF Date: 11/12/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

st : MET14
lnum : 847445847001
its : ug/L

Date : 05-NOV-2007 14:47
X Axis : R

Reviewer : ---
Type : WATER

vel	File	Seqnum	Sample ID	Analyzed	Stds
1	131311	847445847002	STD03REP1	05-NOV-2007 14:51	S7606 (200X)
2	131311	847445847003	STD04REP1	05-NOV-2007 14:54	S7606 (50X)
3	131311	847445847004	STD05REP1	05-NOV-2007 14:56	S7606 (20X)
4	131311	847445847005	STD06REP1	05-NOV-2007 14:58	S7606 (10X)
5	131311	847445847006	STD02REP1	05-NOV-2007 15:05	S7606 (500X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	2534.0	2642.0	2363.4	2229.6	3060.0	LINR	-0.1608	4.50E-4		2565.8	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.500	-18	2.000	11	5.000	3	10.00	-1	0.200	-43

stirment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

847445847001

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 847445847 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 05-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131311	ICALBLK	STD01REP1				05-NOV-2007 14:47	1.0	1.0									
131311	ICAL	STD03REP1				05-NOV-2007 14:51	1.0	1.0									
131311	ICAL	STD04REP1				05-NOV-2007 14:54	1.0	1.0									
131311	ICAL	STD05REP1				05-NOV-2007 14:56	1.0	1.0									
131311	ICAL	STD06REP1				05-NOV-2007 14:58	1.0	1.0									
131311	ICAL	STD02REP1				05-NOV-2007 15:05	1.0	1.0									
131311	ICV					05-NOV-2007 15:10	1.0	1.0	2	5.000	847445847001	5.230		ug/L	105		
131311	ICB					05-NOV-2007 15:13	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	BLANK	QC413686		131311	Water	05-NOV-2007 15:15	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	BS	QC413687		131311	Water	05-NOV-2007 15:18	1.0	1.0		5.000	847445847001	4.880	0.20	ug/L	98		u
131311	BSD	QC413688		131311	Water	05-NOV-2007 15:20	1.0	1.0		5.000	847445847001	5.120	0.20	ug/L	102	5	u
131311	MSS	198814-002		131311	Filtra	05-NOV-2007 15:22	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SER	QC413689	198814-002	131311	Filtra	05-NOV-2007 15:24	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413690	198814-002	131311	Filtra	05-NOV-2007 15:27	1.0	1.0		5.000	847445847001	5.640	0.20	ug/L	113		u
131311	MSD	QC413691	198814-002	131311	Filtra	05-NOV-2007 15:29	1.0	1.0		5.000	847445847001	5.410	0.20	ug/L	108	4	u
131311	MSS	198836-001		131311	Water	05-NOV-2007 15:31	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SER	QC413692	198836-001	131311	Water	05-NOV-2007 15:33	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413693	198836-001	131311	Water	05-NOV-2007 15:35	1.0	1.0		5.000	847445847001	5.350	0.20	ug/L	107		u
131311	CCV					05-NOV-2007 15:37	1.0	1.0	3	2.500	847445847001	2.650		ug/L	106		
131311	CCB					05-NOV-2007 15:39	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	MSD	QC413694	198836-001	131311	Water	05-NOV-2007 15:42	1.0	1.0		5.000	847445847001	5.570	0.20	ug/L	111	4	u
131311	MSS	198854-001		131311	TCLP L	05-NOV-2007 15:44	1.0	1.0			847445847001	ND	2.0	ug/L			u
131311	SER	QC413695	198854-001	131311	TCLP L	05-NOV-2007 15:47	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413696	198854-001	131311	TCLP L	05-NOV-2007 15:49	1.0	1.0									
131311	MSD	QC413697	198854-001	131311	TCLP L	05-NOV-2007 15:51	1.0	1.0									
131311	MSS	198854-001		131311	WET Le	05-NOV-2007 15:53	1.0	5.0			847445847001	ND	2.0	ug/L			u
131311	SER	QC413698	198854-001	131311	WET Le	05-NOV-2007 15:55	5.0	5.0			847445847001	ND	5.0	ug/L		--	u
131311	MS	QC413699	198854-001	131311	WET Le	05-NOV-2007 15:58	1.0	5.0		25.00	847445847001	22.70	1.0	ug/L	91		u
131311	MSD	QC413700	198854-001	131311	WET Le	05-NOV-2007 16:01	1.0	5.0		25.00	847445847001	24.35	1.0	ug/L	97	7	u
131311	MSS	198925-003		131311	Filtra	05-NOV-2007 16:03	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	CCV					05-NOV-2007 16:06	1.0	1.0	4	7.500	847445847001	7.690		ug/L	103		
131311	CCB					05-NOV-2007 16:08	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	SER	QC413701	198925-003	131311	Filtra	05-NOV-2007 16:10	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413702	198925-003	131311	Filtra	05-NOV-2007 16:12	1.0	1.0		5.000	847445847001	5.110	0.20	ug/L	102		u
131311	MSD	QC413703	198925-003	131311	Filtra	05-NOV-2007 16:14	1.0	1.0		5.000	847445847001	5.090	0.20	ug/L	102	0	u
131311	PREPBLK	QC413704		131311	TCLP L	05-NOV-2007 16:17	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	PREPBLK	QC413705		131311	WET Le	05-NOV-2007 16:19	1.0	5.0			847445847001	ND	1.0	ug/L			u
131311	SAMPLE	198814-003		131311	Filtra	05-NOV-2007 16:21	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-002		131311	Water	05-NOV-2007 16:23	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-003		131311	Water	05-NOV-2007 16:25	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-004		131311	Water	05-NOV-2007 16:28	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-006		131311	Water	05-NOV-2007 16:30	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	CCV					05-NOV-2007 16:32	1.0	1.0	5	5.000	847445847001	5.130		ug/L	103		

ds used: 1=S7606 2=S7608 3=S7609 4=S7611 5=S7610
ags used: u=use

alyst: _____ Date: 11/15/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 847445847 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 05-NOV-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131311	CCB					05-NOV-2007 16:35	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	SAMPLE	198865-001		131311	Water	05-NOV-2007 16:37	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198880-004		131311	Water	05-NOV-2007 16:40	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198908-008		131311	Filtra	05-NOV-2007 16:42	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198908-012		131311	Filtra	05-NOV-2007 16:45	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198924-003		131311	Filtra	05-NOV-2007 16:47	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198926-001		131311	Water	05-NOV-2007 16:49	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198944-001		131311	Water	05-NOV-2007 16:52	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198946-001		131311	Water	05-NOV-2007 16:55	1.0	1.0			847445847001	2.3	0.20	ug/L			u
131311	SAMPLE	198956-002		131311	Water	05-NOV-2007 16:57	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	CCV					05-NOV-2007 16:59	1.0	1.0	4	7.500	847445847001	7.700		ug/L	103		
131311	CCB					05-NOV-2007 17:02	1.0	1.0			847445847001	ND	0.20	ug/L			

ds used: 1=S7606 2=S7608 3=S7609 4=S7611 5=S7610
ags used: u=use

nalyst: _____ Date: 11/5/07

Curtis & Tompkins Laboratories Sample Preparation Summary 05-NOV-2007 12:32

Batch Number : 131311
Date Extracted: 05-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S7606
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198814-002			Weston Solutions	Filtrate	50	mL	50	1.000000	1				TAL/HG		MSS
198814-003			Weston Solutions	Filtrate	50	mL	50	1.000000	1				TAL/HG		
198836-001			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		MSS
198836-002			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198836-003			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198836-004			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198836-006			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198854-001			ConocoPhillips Company	TCLP Leach	50	mL	50	1.000000	1				HG		MSS
198854-001			ConocoPhillips Company	WET Leacha	10	mL	50	5.000000	1				HG		MSS
198865-001			Kensington Laboratories	Water	50	mL	50	1.000000	1				HG		
198880-004			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/HG		
198908-008			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198908-012			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198924-003			TRC Environmental Solutions, I	Filtrate	50	mL	50	1.000000	1				T26/HG		
198925-003			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1				TAL/HG		MSS
198926-001			URS Corporation	Water	50	mL	50	1.000000	1				HG		
198944-001			Union Sanitary District	Water	50	mL	50	1.000000	1				HG		
198946-001			TRC Solutions	Water	50	mL	50	1.000000	1				HG		
198956-002			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/HG		
QC413686	BLANK			Water	50	mL	50	1.000000	1				HG		
QC413687	BS			Water	50	mL	50	1.000000	1	2.5			HG		
QC413688	BSD			Water	50	mL	50	1.000000	1	2.5			HG		
QC413689	SER	of 198814-002		Filtrate	50	mL	50	1.000000	1				HG		
QC413690	MS	of 198814-002		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413691	MSD	of 198814-002		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413692	SER	of 198836-001		Water	50	mL	50	1.000000	1				HG		
QC413693	MS	of 198836-001		Water	50	mL	50	1.000000	1	2.5			HG		
QC413694	MSD	of 198836-001		Water	50	mL	50	1.000000	1	2.5			HG		
QC413695	SER	of 198854-001		TCLP Leach	50	mL	50	1.000000	1				HG		
QC413696	MS	of 198854-001		TCLP Leach	50	mL	50	1.000000	1	2.5			HG		
QC413697	MSD	of 198854-001		TCLP Leach	50	mL	50	1.000000	1	2.5			HG		
QC413698	SER	of 198854-001		WET Leacha	10	mL	50	5.000000	1				HG		
QC413699	MS	of 198854-001		WET Leacha	10	mL	50	5.000000	1	2.5			HG		
QC413700	MSD	of 198854-001		WET Leacha	10	mL	50	5.000000	1	2.5			HG		
QC413701	SER	of 198925-003		Filtrate	50	mL	50	1.000000	1				HG		
QC413702	MS	of 198925-003		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413703	MSD	of 198925-003		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413704	PREPBLK			TCLP Leach	50	mL	50	1.000000	1				HG		
QC413705	PREPBLK			WET Leacha	10	mL	50	5.000000	1				HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/5/07

Relinquished By: _____ Received By: _____ Date: 11/5/07

0330

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87445470001
Units : ug/L

Date : 05-NOV-2007 08:30
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110507r	87445470002	CRIM08	05-NOV-2007 08:34	S7555
L2	110507r	87445470003	CS100	05-NOV-2007 08:3[illegible]	S7382
L3	110507r	87445470004	CS1K	05-NOV-2007 08:41	S7381
L4	110507r	87445470005	CS10K	05-NOV-2007 08:44	S7383
L5	110507r	87445470006	CS100K	05-NOV-2007 08:47	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	27.338	29.077	29.102	30.164		LOR0	0.00000	0.03316		28.920	1.000	0.995	
Arsenic	A	15.607	18.554	18.182	18.092		LOR0	0.00000	0.05527		17.609	1.000	0.995	
Barium	A	444.99	445.48	433.51	424.08		LOR0	0.00000	0.00236		437.01	1.000	0.995	
Beryllium	A	3137.0	3067.0	3040.6			LOR0	0.00000	3.29E-4		3081.5	1.000	0.995	
Boron	A	148.03		149.51	157.11		LOR0	0.00000	0.00637		151.55	1.000	0.995	
Cadmium	A	215.11	220.76	219.41	215.65		LOR0	0.00000	0.00464		217.73	1.000	0.995	
Chromium	A	67.933	67.985	66.570	66.766		LOR0	0.00000	0.01498		67.314	1.000	0.995	
Cobalt	A	113.74	112.40	116.36	116.04		LOR0	0.00000	0.00862		114.64	1.000	0.995	
Copper	A	411.40	404.69	406.43	408.24		LOR0	0.00000	0.00245		407.69	1.000	0.995	
Lead	A	37.464	43.094	43.131	42.841		LOR0	0.00000	0.02334		41.632	1.000	0.995	
Manganese	A	1366.4	1366.2	1324.9	1273.7		LOR0	0.00000	7.85E-4		1332.8	1.000	0.995	
Molybdenum	A	38.010	37.756	36.579	36.887		LOR0	0.00000	0.02711		37.308	1.000	0.995	
Nickel	A	37.818	37.533	38.799	38.721		LOR0	0.00000	0.02583		38.218	1.000	0.995	
Selenium	A	26.794	27.732	27.253	28.741		LOR0	0.00000	0.03481		27.630	1.000	0.995	
Silver	A	381.77	475.31	468.31	480.10		LOR0	0.00000	0.00209		451.37	1.000	0.995	
Thallium	A	17.092	18.165	17.837	17.589		LOR0	0.00000	0.05685		17.671	1.000	0.995	
Tin	A	22.262	22.463	22.224	23.750		LOR0	0.00000	0.04213		22.675	1.000	0.995	
Titanium	A	1183.5	1237.5	1203.8	1178.5		LOR0	0.00000	8.48E-4		1200.8	1.000	0.995	
Vanadium	A	105.01	107.22	105.78	107.88		LOR0	0.00000	0.00927		106.47	1.000	0.995	
Zinc	A	139.75	85.167	79.333	80.262		LOR0	0.00000	0.01246		96.127	1.000	0.995	
Aluminum	R	1.5039		1.4330	1.3730	1.4485	LOR0	0.00000	0.69072		1.4396	1.000	0.995	
Calcium	R	15.868		15.862	14.885	15.745	LOR0	0.00000	0.06355		15.590	1.000	0.995	
Iron	R	13.279		12.948	12.112	12.926	LOR0	0.00000	0.07741		12.816	1.000	0.995	
Magnesium	R	2.1976		2.1822	2.0190	2.1327	LOR0	0.00000	0.46914		2.1329	1.000	0.995	
Potassium	R	4.3320		4.9462	4.5705	5.0277	LOR0	0.00000	0.19908		4.7191	1.000	0.995	
Sodium	R	11.147		11.472	10.734	11.253	LOR0	0.00000	0.08891		11.151	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-9	100.0	-4	1000	-3	10000	0		
Arsenic	A	5.000	-14	100.0	3	1000	0	10000	0		
Barium	A	5.000	5	100.0	5	1000	2	10000	0		
Beryllium	A	2.000	3	100.0	1	1000	0				
Boron	A	100.0	-6			1000	-5	10000	0		
Cadmium	A	5.000	0	100.0	2	1000	2	10000	0		
Chromium	A	5.000	2	100.0	2	1000	0	10000	0		
Cobalt	A	5.000	-2	100.0	-3	1000	0	10000	0		
Copper	A	5.000	1	100.0	-1	1000	0	10000	0		
Lead	A	3.000	-13	100.0	1	1000	1	10000	0		
Manganese	A	5.000	7	100.0	7	1000	4	10000	0		
Molybdenum	A	5.000	3	100.0	2	1000	-1	10000	0		
Nickel	A	5.000	-2	100.0	-3	1000	0	10000	0		
Selenium	A	5.000	-7	100.0	-3	1000	-5	10000	0		
Silver	A	5.000	-20	100.0	-1	1000	-2	2000	0		
Thallium	A	5.000	-3	100.0	3	1000	1	10000	0		
Tin	A	40.00	-6	100.0	-5	1000	-6	10000	0		
Titanium	A	10.00	0	100.0	5	1000	2	10000	0		
Vanadium	A	5.000	-3	100.0	-1	1000	-2	10000	0		
Zinc	A	20.00	74	100.0	6	1000	-1	10000	0		
Aluminum	R	100.0	4			1000	-1	10000	-5	100000	0
Calcium	R	200.0	1			1000	1	10000	-5	100000	0
Iron	R	100.0	3			1000	0	10000	-6	100000	0
Magnesium	R	200.0	3			1000	2	10000	-5	100000	0
Potassium	R	500.0	-14			1000	-2	10000	-9	100000	0
Sodium	R	500.0	-1			1000	2	10000	-5	100000	0

0034

nstrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	110507r	ICALBLK				05-NOV-2007 08:30	1.0	1.0					
002	110507r	ICAL	CRIM08			05-NOV-2007 08:34	1.0	1.0				1	
003	110507r	ICAL	CS100			05-NOV-2007 08:38	1.0	1.0				2	
004	110507r	ICAL	CS1K			05-NOV-2007 08:41	1.0	1.0				3	
005	110507r	ICAL	CS10K			05-NOV-2007 08:44	1.0	1.0				4	
006	110507r	ICAL	CS100K			05-NOV-2007 08:47	1.0	1.0				5	
007	110507r	ICV				05-NOV-2007 08:53	1.0	1.0			5000	6	
008	110507r	ICB				05-NOV-2007 08:56	1.0	1.0			5000		
009	110507r	ICSA				05-NOV-2007 09:01	1.0	1.0			5000	7	10:AL=531691
010	110507r	ICSAB				05-NOV-2007 09:07	1.0	1.0			5000	8	5:AL=486901
011	110507r	SAMPLE	198921-002	131283	Miscel	05-NOV-2007 09:10	20.0	49.50			5000		1:FE=298405
012	110507r	SAMPLE	198929-007	131283	Soil	05-NOV-2007 09:13	10.0	47.62			5000		1:FE=240269
013	110507r	SAMPLE	198929-010	131283	Soil	05-NOV-2007 09:16	10.0	45.05			5000		
014	110507r	ICSAB				05-NOV-2007 09:19	1.0	1.0			5000	8	5:AL=496791
015	110507r	X	RINSE			05-NOV-2007 09:22	1.0						
016	110507r	BLANK	QC413589	131284	Soil	05-NOV-2007 09:26	1.0	50.0			5000		
017	110507r	BS	QC413590	131284	Soil	05-NOV-2007 09:30	1.0	50.0			5000		
018	110507r	BSD	QC413591	131284	Soil	05-NOV-2007 09:33	1.0	50.0			5000		
019	110507r	X	RINSE			05-NOV-2007 09:36	1.0						
020	110507r	CCV				05-NOV-2007 09:39	1.0	1.0			5000	9	
021	110507r	X	FLUSH			05-NOV-2007 09:42	1.0						
022	110507r	CCB				05-NOV-2007 09:46	1.0	1.0			5000		
023	110507r	MSS	198903-001	131284	Soil	05-NOV-2007 09:50	1.0	45.05	1		5000		1:FE=214998
024	110507r	MS	QC413592	131284	Soil	05-NOV-2007 09:52	1.0	47.17		1	5000		2:FE=216407
025	110507r	MSD	QC413593	131284	Soil	05-NOV-2007 09:54	1.0	48.08		4	5000		2:FE=228591
026	110507r	SER	QC413594	131284	Soil	05-NOV-2007 09:56	5.0	45.05		1	5000		
027	110507r	PDS	QC413595	131284	Soil	05-NOV-2007 09:59	1.0	45.05			5000	10 11	2:FE=235549
028	110507r	SAMPLE	198903-002	131284	Soil	05-NOV-2007 10:01	1.0	45.05			5000		5:FE=451360
029	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 10:03	1.0	47.17	2		5000		4:FE=365607
030	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 10:06	1.0	46.30	1		5000		2:FE=268314
31	110507r	?SAMPLE	198709-001			05-NOV-2007 10:08	1.0						

tds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

nalyst: _____ Date: 11/5/14

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 10:12	1.0	46.73		5000	3:MG=320813	
033	110507r	X	RINSE			05-NOV-2007 10:14	1.0					
034	110507r	CCV				05-NOV-2007 10:17	1.0	1.0		5000	9	
035	110507r	X	FLUSH			05-NOV-2007 10:21	1.0					
036	110507r	CCB				05-NOV-2007 10:24	1.0	1.0		5000		
037	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 10:28	1.0	49.50	1	5000	6:FE=649648	
038	110507r	SAMPLE	198841-001	131284	Miscel	05-NOV-2007 10:30	1.0	48.08		5000	1:FE=212461	
039	110507r	SAMPLE	198841-002	131284	Miscel	05-NOV-2007 10:33	1.0	45.45		5000	1:FE=226239	
040	110507r	SAMPLE	198841-003	131284	Miscel	05-NOV-2007 10:36	1.0	56.82		5000	3:FE=167173	
041	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 10:39	1.0	49.02		5000	3:FE=661648	
042	110507r	SAMPLE	198845-002	131284	Miscel	05-NOV-2007 10:43	1.0	45.45		5000	3:FE=452399	
043	110507r	SAMPLE	198852-001	131284	Miscel	05-NOV-2007 10:47	1.0	48.08		5000	2:FE=176098	
044	110507r	SAMPLE	198850-001	131284	Miscel	05-NOV-2007 10:50	1.0	71.43		5000	1:FE=202532	
045	110507r	SAMPLE	198850-002	131284	Miscel	05-NOV-2007 10:54	1.0	50.0		5000	2:FE=637998	
046	110507r	SAMPLE	198849-001	131284	Miscel	05-NOV-2007 10:56	1.0	45.05		5000	2:FE=1793655	
047	110507r	X	RINSE			05-NOV-2007 10:59	1.0					
048	110507r	CCV				05-NOV-2007 11:03	1.0	1.0		5000	9	
049	110507r	X	FLUSH			05-NOV-2007 11:06	1.0					
050	110507r	CCB				05-NOV-2007 11:10	1.0	1.0		5000		
051	110507r	SAMPLE	198848-001	131284	Miscel	05-NOV-2007 11:14	1.0	45.05		5000	2:FE=502731	
052	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:17	1.0	72.46	1	5000	3:FE=559436	
053	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:19	1.0	48.54	1	5000	4:CA=380474	
054	110507r	SAMPLE	198844-001	131284	Miscel	05-NOV-2007 11:21	1.0	100.0		5000		
055	110507r	SAMPLE	198844-002	131284	Miscel	05-NOV-2007 11:24	1.0	90.91		5000		
056	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 11:28	1.0	47.17		5000	3:FE=308922	
057	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 11:30	1.0	46.30	1	5000	2:FE=234718	
058	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 11:32	1.0	46.73		5000	3:MG=316139	
059	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 11:34	1.0	49.50		5000	6:FE=645974	
060	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 11:36	1.0	49.02		5000	3:FE=665009	
061	110507r	X	RINSE			05-NOV-2007 11:40	1.0					
062	110507r	CCV				05-NOV-2007 11:43	1.0	1.0		5000	9	

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	110507r	X	FLUSH			05-NOV-2007 11:47	1.0				
064	110507r	CCB				05-NOV-2007 11:50	1.0	1.0	5000		
065	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:54	1.0	72.46	5000		3:FE=592381
066	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:56	1.0	48.54	5000		4:CA=402689
067	110507r	ICSAB				05-NOV-2007 11:58	1.0	1.0	5000	8	5:AL=515891
068	110507r	X	RINSE			05-NOV-2007 12:02	1.0				
069	110507r	CCV				05-NOV-2007 12:05	1.0	1.0	5000	9	
070	110507r	X	FLUSH			05-NOV-2007 12:09	1.0				
071	110507r	CCB				05-NOV-2007 12:12	1.0	1.0	5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

Curtis & Tompkins Laboratories Sample Preparation Summary 02-NOV-2007 20:11

Batch Number : 131284
Date Extracted: 02-NOV-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198841-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198841-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198841-003			Hirst & Chanler	Miscell.	.88	g	50	56.818182	1					PB		
198844-001			Hirst & Chanler	Miscell.	.5	g	50	100.000000	1					PB		
198844-002			Hirst & Chanler	Miscell.	.55	g	50	90.909091	1					PB		
198845-001			Hirst & Chanler	Miscell.	1.02	g	50	49.019608	1					PB		
198845-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198847-001			Hirst & Chanler	Miscell.	.69	g	50	72.463768	1					PB		
198847-002			Hirst & Chanler	Miscell.	1.03	g	50	48.543689	1					PB		
198848-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198849-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198850-001			Hirst & Chanler	Miscell.	.7	g	50	71.428571	1					PB		
198850-002			Hirst & Chanler	Miscell.	1	g	50	50.000000	1					PB		
198852-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198880-001			Mactec, Inc.	Soil	1.07	g	50	46.728972	1					T26/ICP		
198880-002			Mactec, Inc.	Soil	1.01	g	50	49.504950	1					T26/ICP		
198903-001			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-002			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-003			Mactec, Inc.	Soil	1.06	g	50	47.169811	1					T26/ICP		
198903-006			Mactec, Inc.	Soil	1.08	g	50	46.296296	1					T26/ICP		
QC413589	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC413590	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413591	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413592	MS	of 198903-001		Soil	1.06	g	50	47.169811	1		.5	.5		ICAP		
QC413593	MSD	of 198903-001		Soil	1.04	g	50	48.076923	1		.5	.5		ICAP		
QC413594	SER	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		
QC413595	PDS	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		

Prep Chemist: Michael C Brock 11/2/07 Reviewed By: [signature] Date: 11/5/07

Relinquished By: Michael C Brock 11/2/07 Received By: [signature] Date: 11/5/07

SDG TH

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET04
alnum : 47447371001
nits : ug/L

Date : 06-NOV-2007 16:11
X Axis : R

Reviewer : ---
Type : SOIL

evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	131361	47447371001	STD03REP1	06-NOV-2007 16:11	S7606 (200X)
L2	131361	47447371002	STD04REP1	06-NOV-2007 16:13	S7606 (50X)
L3	131361	47447371003	STD05REP1	06-NOV-2007 16:15	S7606 (20X)
L4	131361	47447371004	STD06REP1	06-NOV-2007 16:17	S7606 (10X)
L5	131361	47447371006	STD02REP1	06-NOV-2007 16:24	S7606 (500X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	3276.0	3228.0	3088.0	2906.2	7000.0	LINR	-0.1671	3.46E-4		3899.6	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.500	-20	2.000	3	5.000	4	10.00	-1	0.200	59

ment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

e 1 of 1

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	ICAL	STD03REP1				06-NOV-2007 16:11	1.0	1.0									
131361	ICAL	STD04REP1				06-NOV-2007 16:13	1.0	1.0									
131361	ICAL	STD05REP1				06-NOV-2007 16:15	1.0	1.0									
131361	ICAL	STD06REP1				06-NOV-2007 16:17	1.0	1.0									
131361	ICALBLK	STD01REP1				06-NOV-2007 16:20	1.0	1.0									
131361	ICAL	STD02REP1				06-NOV-2007 16:24	1.0	1.0									
131361	ICV					06-NOV-2007 16:27	1.0	1.0	2	5.000	47447371001	5.100		ug/L	102		
131361	ICB					06-NOV-2007 16:29	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	BLANK	QC413907		131361	Soil	06-NOV-2007 16:31	1.0	100.0			47447371001	ND	0.020	mg/Kg			u
131361	BS	QC413908		131361	Soil	06-NOV-2007 16:34	1.0	100.0		0.5000	47447371001	0.5160	0.020	mg/Kg	103		u
131361	BSD	QC413909		131361	Soil	06-NOV-2007 16:37	1.0	100.0		0.5000	47447371001	0.5210	0.020	mg/Kg	104	1	u
131361	MSS	198956-001		131361	Soil	06-NOV-2007 16:39	1.0	86.21			47447371001	0.044	0.020	mg/Kg			u
131361	SER	QC413910	198956-001	131361	Soil	06-NOV-2007 16:41	5.0	86.21			47447371001	ND	0.086	mg/Kg		--	u
131361	MS	QC413911	198956-001	131361	Soil	06-NOV-2007 16:43	1.0	86.21		0.4310	47447371001	0.5078	0.020	mg/Kg	108		u
131361	MSD	QC413912	198956-001	131361	Soil	06-NOV-2007 16:45	1.0	106.4		0.5319	47447371001	0.6117	0.021	mg/Kg	107	1	u
131361	SAMPLE	198880-001		131361	Soil	06-NOV-2007 16:47	1.0	86.21			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 16:50	1.0	84.75			47447371001	14 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198947-001		131361	Soil	06-NOV-2007 16:52	1.0	84.75			47447371001	0.23	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 16:54	1.0	1.0	3	2.500	47447371001	2.490		ug/L	100		
131361	CCB					06-NOV-2007 16:57	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-003		131361	Soil	06-NOV-2007 16:59	1.0	98.04			47447371001	0.043	0.020	mg/Kg			u
131361	SAMPLE	198956-004		131361	Soil	06-NOV-2007 17:01	1.0	87.72			47447371001	0.078	0.020	mg/Kg			u
131361	SAMPLE	198956-005		131361	Soil	06-NOV-2007 17:03	1.0	102.0			47447371001	0.075	0.020	mg/Kg			u
131361	SAMPLE	198956-006		131361	Soil	06-NOV-2007 17:06	1.0	94.34			47447371001	0.073	0.020	mg/Kg			u
131361	SAMPLE	198956-007		131361	Soil	06-NOV-2007 17:08	1.0	73.53			47447371001	0.076	0.020	mg/Kg			u
131361	SAMPLE	198956-008		131361	Soil	06-NOV-2007 17:10	1.0	94.34			47447371001	0.0044 J	0.020	mg/Kg			u
131361	SAMPLE	198956-009		131361	Soil	06-NOV-2007 17:12	1.0	90.91			47447371001	0.0097 J	0.020	mg/Kg			u
131361	SAMPLE	198956-010		131361	Soil	06-NOV-2007 17:14	1.0	102.0			47447371001	0.014 J	0.020	mg/Kg			u
131361	SAMPLE	198956-012		131361	Soil	06-NOV-2007 17:17	1.0	102.0			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-013		131361	Soil	06-NOV-2007 17:19	1.0	78.13			47447371001	0.011 J	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 17:21	1.0	1.0	4	5.000	47447371001	5.010		ug/L	100		
131361	CCB					06-NOV-2007 17:23	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-014		131361	Soil	06-NOV-2007 17:26	1.0	89.29			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-015		131361	Soil	06-NOV-2007 17:28	1.0	106.4			47447371001	0.015 J	0.021	mg/Kg			u
131361	SAMPLE	198957-010		131361	Soil	06-NOV-2007 17:30	1.0	84.75			47447371001	0.099	0.020	mg/Kg			u
131361	SAMPLE	198957-011		131361	Soil	06-NOV-2007 17:32	1.0	96.15			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 17:35	1.0	89.29			47447371001	21 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 17:37	1.0	74.63			47447371001	47 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 18:12	20.0	84.75			47447371001	11	0.34	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 18:23	50.0	89.29			47447371001	17	0.89	mg/Kg			u
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:31	100.0	74.63			47447371001	800 >LR	1.5	mg/Kg			>LR cal
131361	CCV					06-NOV-2007 18:33	1.0	1.0	5	7.500	47447371001	7.160		ug/L	95		
131361	CCB					06-NOV-2007 18:36	1.0	1.0			47447371001	ND	0.20	ug/L			

Stds used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 11/6/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:42	2000	74.63			47447371001	590	30	mg/Kg			u
131361	CCV					06-NOV-2007 18:45	1.0	1.0	5	7.500	47447371001	7.420		ug/L	99		
131361	CCB					06-NOV-2007 18:47	1.0	1.0			47447371001	ND	0.20	ug/L			

s used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
ds used: >UR=overrange b=noncompliant calc=check quantitation u=use

yst: _____ Date: 11/6/07

Curtis & Tompkins Laboratories Sample Preparation Summary 06-NOV-2007 18:53

Batch Number : 131361
Date Extracted: 06-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7606
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198880-001			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		
198880-002			Mactec, Inc.	Soil	.59	g	50	84.745763	1					T26/HG		
198947-001			TRC Solutions	Soil	.59	g	50	84.745763	1					T26/HG		
198956-001			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		MSS
198956-003			Mactec, Inc.	Soil	.51	g	50	98.039216	1					T26/HG		
198956-004			Mactec, Inc.	Soil	.57	g	50	87.719298	1					T26/HG		
198956-005			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-006			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
198956-007			Mactec, Inc.	Soil	.68	g	50	73.529412	1					T26/HG		
198956-008			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
198956-009			Mactec, Inc.	Soil	.55	g	50	90.909091	1					T26/HG		
198956-010			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-012			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-013			Mactec, Inc.	Soil	.64	g	50	78.125000	1					T26/HG		
198956-014			Mactec, Inc.	Soil	.56	g	50	89.285714	1					T26/HG		
198956-015			Mactec, Inc.	Soil	.47	g	50	106.382979	1					T26/HG		
198957-010			Northgate Environmental Manage	Soil	.59	g	50	84.745763	1					T26/HG		
198957-011			Northgate Environmental Manage	Soil	.52	g	50	96.153846	1					T26/HG		
198957-012			Northgate Environmental Manage	Soil	.56	g	50	89.285714	1					T26/HG		
198965-001			ConocoPhillips Company	Miscell.	.67	g	50	74.626866	1					T26/HG		
QC413907	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC413908	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC413909	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC413910	SER	of 198956-001		Soil	.58	g	50	86.206897	1					HG		
QC413911	MS	of 198956-001		Soil	.58	g	50	86.206897	1		2.5			HG		
QC413912	MSD	of 198956-001		Soil	.47	g	50	106.382979	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/6/07

Relinquished By: _____ Received By: _____ Date: 11/6/07

198956

MACTEC

CHAIN OF CUSTODY RECORD

3823

198903

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Excavation 3
JOB NO.: 4088
SAMPLERS (SIGNATURE): Scott Bal
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 11/1/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) including 1,2-DCA; TPHg (8015M); TPHd+TPHmo-w-silica gel (8015M); CAMs (6010-6020); Title 22 Metals	FOR LAB USE ONLY
~~1305~~	X		SO	1065EX359[4.0]	~~8~~15 S~~8~~W-4.0 SW	sample + MS/MSD	14	X X X X X	
~~1335~~	X		SO	1065EX360[4.0]	~~11~~11515W-4.0 SW		7	X X X X X	
~~1330~~	X		SO	DUP110107	11515W-4.0 SW		7	X X X X X	
~~[illegible]~~			~~SO~~	~~1065EX361[4.5]~~	~~13535W-4.5 SW~~		~~7~~	~~X X X X X~~	
1420			W	1065EX360RB361	EB		12	X X X X X	
NA			W	TB 110107	TB		2	X X	
1440	X		SO	1065EX361[4.5]	13535W-4.5 SW		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
Scott Bal	11/1/07 1600	[illegible]	11/1/07 1600			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

F1008 (05/00)

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: x Client Request By: M.Heassler Date/Time: 11/6/07 20:03 Initials: SES
Login Review Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
198903-007		1065EX362[5.5]	Soil	Add	ETVH, E8260, TEHM	11/13
					8270-SIM, Moisture	
					T26/ICP, T26/HG	

5555

MACTEC

CHAIN OF CUSTODY RECORD

198903

3323

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION
NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Excavation 3
JOB NO.: 4088
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRC
SAMPLING DATE: 11/1/07

	TIME	GRAB	COMP	MATRIX*	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES (including preservation) VOC (8260B) TPHg (8015M) TPHd-TPHmo-silica gel (8015M) PAHs (8270-SIM) Title 22 Metals (6010/7000/7470)	FOR LAB USE ONLY
1	1305	X		SO	1065EX359[4.0]	15 8S 5W-4.0 SW	Sample + MS/MSD	14	X X X X X X	
2	1330	X		SO	1065EX360[4.0]	11S 15W- 4.0 SW		7	X X X X X X	
3	1335	X		SO	DUP110107	11S 15W- 4.0 SW		7	X X X X X X	
	[illegible]				[illegible]	[illegible]		7	X X X X X X	
4	1420			W	1065EX360RB3rd	EB		12	X X X X X X	
5	NA			W	TB 110107	TB		2	X X	
6	1440	X		SO	1065EX361[4.5]	13 5S 5W -4.5 SW		7	X X X X X X	
	1505			SO	1065EX362[5.5]	11S-20W			X X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	11/1/07 1600		11/1 1600			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

60009

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 307435352001
Units : ng

Name : GC04 MBTXE/SURR 302
Date : 29-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	302_009	307435352009	BTXE_1	29-OCT-2007 19:38	S7260 (1000X), S7356 (5000X)
L2	302_010	307435352010	MBTXE_2	29-OCT-2007 20:15	S7258 (1250X), S7356 (5000X)
L3	302_011	307435352011	MBTXE_3	29-OCT-2007 20:53	S7258 (500X), S7356 (5000X)
L4	302_012	307435352012	MBTXE_4	29-OCT-2007 21:31	S7258 (125X), S7356 (5000X)
L5	302_013	307435352013	MBTXE_5	29-OCT-2007 22:08	S7257 (1000X), S7356 (5000X)
L6	302_014	307435352014	MBTXE_6	29-OCT-2007 22:46	S7257 (500X), S7356 (5000X)
L7	302_015	307435352015	MBTXE_7	29-OCT-2007 23:24	S7257 (250X), S7356 (5000X)
L8	302_016	307435352016	MTBE_7	30-OCT-2007 00:01	S6302 (500X), S7356 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3913.7	4177.7	3904.1	3661.5	3896.1	3977.3	3937.1	3852.6	AVRG		2.55E-4		3915.0	4	0.995	20	
Bromofluorobenzene (FID)	A	2412.2	2540.8	2428.9	2291.4	2510.4	2558.1	2584.1	2348.4	AVRG		4.07E-4		2459.3	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	7	450.0	0	450.0	-6	450.0	0	450.0	2	450.0	1	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-2	450.0	3	450.0	-1	450.0	-7	450.0	2	450.0	4	450.0	5	450.0	-5

MJM 10/30/07 : ICV: MTBE Failed low Ch. C. Report analyte from Ch. B. Ch. C to be used as confirm only.

Analyst: MJM Date: 10/30/07 Reviewer: LH Date: 10/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

307435352001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 327389838001
Units : ng

Name : MBTXE TFT/BFB 270
Date : 27-SEP-2007 17:55
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	270_011	327389838011	BTXE_1	27-SEP-2007 17:55	S7260 (1000X), S7273 (5000X)
L2	270_012	327389838012	MBTXE_2	27-SEP-2007 18:32	S7258 (1250X), S7273 (5000X)
L3	270_013	327389838013	MBTXE_3	27-SEP-2007 19:09	S7258 (500X), S7273 (5000X)
L4	270_014	327389838014	MBTXE_4	27-SEP-2007 19:46	S7258 (125X), S7273 (5000X)
L5	270_015	327389838015	MBTXE_5	27-SEP-2007 20:23	S7257 (1000X), S7273 (5000X)
L6	270_016	327389838016	MBTXE_6	27-SEP-2007 21:00	S7257 (500X), S7273 (5000X)
L7	270_017	327389838017	MBTXE_7	27-SEP-2007 21:38	S7257 (250X), S7273 (5000X)
L8	270_018	327389838018	MTBE_7	27-SEP-2007 22:15	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2574.8	2543.4	2652.4	2657.1	2526.3	2598.4	2628.9	2500.5	AVRG		3.87E-4		2585.2	2	0.995	20	
Bromofluorobenzene (FID)	A	2167.6	2036.9	2108.7	2121.6	2053.1	2054.6	2101.1	2030.0	AVRG		4.80E-4		2084.2	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-2	450.0	3	450.0	3	450.0	-2	450.0	1	450.0	2	450.0	-3
Bromofluorobenzene (FID)	A	450.0	4	450.0	-2	450.0	1	450.0	2	450.0	-1	450.0	-1	450.0	1	450.0	-3

CP 09/28/07 : Can not report MTBE from channel C. Channel C will be confirm only.

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	110507r	ICALBLK				05-NOV-2007 08:30	1.0	1.0					
002	110507r	ICAL	CRIM08			05-NOV-2007 08:34	1.0	1.0				1	
003	110507r	ICAL	CS100			05-NOV-2007 08:38	1.0	1.0				2	
004	110507r	ICAL	CS1K			05-NOV-2007 08:41	1.0	1.0				3	
005	110507r	ICAL	CS10K			05-NOV-2007 08:44	1.0	1.0				4	
006	110507r	ICAL	CS100K			05-NOV-2007 08:47	1.0	1.0				5	
007	110507r	ICV				05-NOV-2007 08:53	1.0	1.0			5000	6	
008	110507r	ICB				05-NOV-2007 08:56	1.0	1.0			5000		
009	110507r	ICSA				05-NOV-2007 09:01	1.0	1.0			5000	7	10:AL=531691
010	110507r	ICSAB				05-NOV-2007 09:07	1.0	1.0			5000	8	5:AL=486901
011	110507r	SAMPLE	198921-002	131283	Miscel	05-NOV-2007 09:10	20.0	49.50			5000		1:FE=298405
012	110507r	SAMPLE	198929-007	131283	Soil	05-NOV-2007 09:13	10.0	47.62			5000		1:FE=240269
013	110507r	SAMPLE	198929-010	131283	Soil	05-NOV-2007 09:16	10.0	45.05			5000		
014	110507r	ICSAB				05-NOV-2007 09:19	1.0	1.0			5000	8	5:AL=496791
015	110507r	X	RINSE			05-NOV-2007 09:22	1.0						
016	110507r	BLANK	QC413589	131284	Soil	05-NOV-2007 09:26	1.0	50.0			5000		
017	110507r	BS	QC413590	131284	Soil	05-NOV-2007 09:30	1.0	50.0			5000		
018	110507r	BSD	QC413591	131284	Soil	05-NOV-2007 09:33	1.0	50.0			5000		
019	110507r	X	RINSE			05-NOV-2007 09:36	1.0						
020	110507r	CCV				05-NOV-2007 09:39	1.0	1.0			5000	9	
021	110507r	X	FLUSH			05-NOV-2007 09:42	1.0						
022	110507r	CCB				05-NOV-2007 09:46	1.0	1.0			5000		
023	110507r	MSS	198903-001	131284	Soil	05-NOV-2007 09:50	1.0	45.05	1		5000		1:FE=214998
024	110507r	MS	QC413592	131284	Soil	05-NOV-2007 09:52	1.0	47.17		1	5000		2:FE=216407
025	110507r	MSD	QC413593	131284	Soil	05-NOV-2007 09:54	1.0	48.08		4	5000		2:FE=228591
026	110507r	SER	QC413594	131284	Soil	05-NOV-2007 09:56	5.0	45.05		1	5000		
027	110507r	PDS	QC413595	131284	Soil	05-NOV-2007 09:59	1.0	45.05			5000	10 11	2:FE=235549
028	110507r	SAMPLE	198903-002	131284	Soil	05-NOV-2007 10:01	1.0	45.05			5000		5:FE=451360
029	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 10:03	1.0	47.17	2		5000		4:FE=365607
030	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 10:06	1.0	46.30	1		5000		2:FE=268314
31	110507r	?SAMPLE	198709-001			05-NOV-2007 10:08	1.0						

tds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

nalyst: _____ Date: 11/5/14

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 10:12	1.0	46.73		5000	3:MG=320813	
033	110507r	X	RINSE			05-NOV-2007 10:14	1.0					
034	110507r	CCV				05-NOV-2007 10:17	1.0	1.0		5000	9	
035	110507r	X	FLUSH			05-NOV-2007 10:21	1.0					
036	110507r	CCB				05-NOV-2007 10:24	1.0	1.0		5000		
037	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 10:28	1.0	49.50	1	5000	6:FE=649648	
038	110507r	SAMPLE	198841-001	131284	Miscel	05-NOV-2007 10:30	1.0	48.08		5000	1:FE=212461	
039	110507r	SAMPLE	198841-002	131284	Miscel	05-NOV-2007 10:33	1.0	45.45		5000	1:FE=226239	
040	110507r	SAMPLE	198841-003	131284	Miscel	05-NOV-2007 10:36	1.0	56.82		5000	3:FE=167173	
041	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 10:39	1.0	49.02		5000	3:FE=661648	
042	110507r	SAMPLE	198845-002	131284	Miscel	05-NOV-2007 10:43	1.0	45.45		5000	3:FE=452399	
043	110507r	SAMPLE	198852-001	131284	Miscel	05-NOV-2007 10:47	1.0	48.08		5000	2:FE=176098	
044	110507r	SAMPLE	198850-001	131284	Miscel	05-NOV-2007 10:50	1.0	71.43		5000	1:FE=202532	
045	110507r	SAMPLE	198850-002	131284	Miscel	05-NOV-2007 10:54	1.0	50.0		5000	2:FE=637998	
046	110507r	SAMPLE	198849-001	131284	Miscel	05-NOV-2007 10:56	1.0	45.05		5000	2:FE=1793655	
047	110507r	X	RINSE			05-NOV-2007 10:59	1.0					
048	110507r	CCV				05-NOV-2007 11:03	1.0	1.0		5000	9	
049	110507r	X	FLUSH			05-NOV-2007 11:06	1.0					
050	110507r	CCB				05-NOV-2007 11:10	1.0	1.0		5000		
051	110507r	SAMPLE	198848-001	131284	Miscel	05-NOV-2007 11:14	1.0	45.05		5000	2:FE=502731	
052	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:17	1.0	72.46	1	5000	3:FE=559436	
053	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:19	1.0	48.54	1	5000	4:CA=380474	
054	110507r	SAMPLE	198844-001	131284	Miscel	05-NOV-2007 11:21	1.0	100.0		5000		
055	110507r	SAMPLE	198844-002	131284	Miscel	05-NOV-2007 11:24	1.0	90.91		5000		
056	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 11:28	1.0	47.17		5000	3:FE=308922	
057	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 11:30	1.0	46.30	1	5000	2:FE=234718	
058	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 11:32	1.0	46.73		5000	3:MG=316139	
059	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 11:34	1.0	49.50		5000	6:FE=645974	
060	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 11:36	1.0	49.02		5000	3:FE=665009	
061	110507r	X	RINSE			05-NOV-2007 11:40	1.0					
062	110507r	CCV				05-NOV-2007 11:43	1.0	1.0		5000	9	

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	110507r	X	FLUSH			05-NOV-2007 11:47	1.0				
064	110507r	CCB				05-NOV-2007 11:50	1.0	1.0	5000		
065	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:54	1.0	72.46	5000		3:FE=592381
066	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:56	1.0	48.54	5000		4:CA=402689
067	110507r	ICSAB				05-NOV-2007 11:58	1.0	1.0	5000	8	5:AL=515891
068	110507r	X	RINSE			05-NOV-2007 12:02	1.0				
069	110507r	CCV				05-NOV-2007 12:05	1.0	1.0	5000	9	
070	110507r	X	FLUSH			05-NOV-2007 12:09	1.0				
071	110507r	CCB				05-NOV-2007 12:12	1.0	1.0	5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

Curtis & Tompkins Laboratories Sample Preparation Summary 02-NOV-2007 20:11

Batch Number : 131284
Date Extracted: 02-NOV-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198841-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198841-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198841-003			Hirst & Chanler	Miscell.	.88	g	50	56.818182	1					PB		
198844-001			Hirst & Chanler	Miscell.	.5	g	50	100.000000	1					PB		
198844-002			Hirst & Chanler	Miscell.	.55	g	50	90.909091	1					PB		
198845-001			Hirst & Chanler	Miscell.	1.02	g	50	49.019608	1					PB		
198845-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198847-001			Hirst & Chanler	Miscell.	.69	g	50	72.463768	1					PB		
198847-002			Hirst & Chanler	Miscell.	1.03	g	50	48.543689	1					PB		
198848-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198849-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198850-001			Hirst & Chanler	Miscell.	.7	g	50	71.428571	1					PB		
198850-002			Hirst & Chanler	Miscell.	1	g	50	50.000000	1					PB		
198852-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198880-001			Mactec, Inc.	Soil	1.07	g	50	46.728972	1					T26/ICP		
198880-002			Mactec, Inc.	Soil	1.01	g	50	49.504950	1					T26/ICP		
198903-001			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-002			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-003			Mactec, Inc.	Soil	1.06	g	50	47.169811	1					T26/ICP		
198903-006			Mactec, Inc.	Soil	1.08	g	50	46.296296	1					T26/ICP		
QC413589	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC413590	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413591	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413592	MS	of 198903-001		Soil	1.06	g	50	47.169811	1		.5	.5		ICAP		
QC413593	MSD	of 198903-001		Soil	1.04	g	50	48.076923	1		.5	.5		ICAP		
QC413594	SER	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		
QC413595	PDS	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		

Prep Chemist: Michael C Brock 11/2/07 Reviewed By: [signature] Date: 11/5/07

Relinquished By: Michael C Brock 11/2/07 Received By: [signature] Date: 11/5/07

SDG TH

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET04
alnum : 47447371001
nits : ug/L

Date : 06-NOV-2007 16:11
X Axis : R

Reviewer : ---
Type : SOIL

evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	131361	47447371001	STD03REP1	06-NOV-2007 16:11	S7606 (200X)
L2	131361	47447371002	STD04REP1	06-NOV-2007 16:13	S7606 (50X)
L3	131361	47447371003	STD05REP1	06-NOV-2007 16:15	S7606 (20X)
L4	131361	47447371004	STD06REP1	06-NOV-2007 16:17	S7606 (10X)
L5	131361	47447371006	STD02REP1	06-NOV-2007 16:24	S7606 (500X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	3276.0	3228.0	3088.0	2906.2	7000.0	LINR	-0.1671	3.46E-4		3899.6	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.500	-20	2.000	3	5.000	4	10.00	-1	0.200	59

ment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

e 1 of 1

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	ICAL	STD03REP1				06-NOV-2007 16:11	1.0	1.0									
131361	ICAL	STD04REP1				06-NOV-2007 16:13	1.0	1.0									
131361	ICAL	STD05REP1				06-NOV-2007 16:15	1.0	1.0									
131361	ICAL	STD06REP1				06-NOV-2007 16:17	1.0	1.0									
131361	ICALBLK	STD01REP1				06-NOV-2007 16:20	1.0	1.0									
131361	ICAL	STD02REP1				06-NOV-2007 16:24	1.0	1.0									
131361	ICV					06-NOV-2007 16:27	1.0	1.0	2	5.000	47447371001	5.100		ug/L	102		
131361	ICB					06-NOV-2007 16:29	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	BLANK	QC413907		131361	Soil	06-NOV-2007 16:31	1.0	100.0			47447371001	ND	0.020	mg/Kg			u
131361	BS	QC413908		131361	Soil	06-NOV-2007 16:34	1.0	100.0		0.5000	47447371001	0.5160	0.020	mg/Kg	103		u
131361	BSD	QC413909		131361	Soil	06-NOV-2007 16:37	1.0	100.0		0.5000	47447371001	0.5210	0.020	mg/Kg	104	1	u
131361	MSS	198956-001		131361	Soil	06-NOV-2007 16:39	1.0	86.21			47447371001	0.044	0.020	mg/Kg			u
131361	SER	QC413910	198956-001	131361	Soil	06-NOV-2007 16:41	5.0	86.21			47447371001	ND	0.086	mg/Kg		--	u
131361	MS	QC413911	198956-001	131361	Soil	06-NOV-2007 16:43	1.0	86.21		0.4310	47447371001	0.5078	0.020	mg/Kg	108		u
131361	MSD	QC413912	198956-001	131361	Soil	06-NOV-2007 16:45	1.0	106.4		0.5319	47447371001	0.6117	0.021	mg/Kg	107	1	u
131361	SAMPLE	198880-001		131361	Soil	06-NOV-2007 16:47	1.0	86.21			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 16:50	1.0	84.75			47447371001	14 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198947-001		131361	Soil	06-NOV-2007 16:52	1.0	84.75			47447371001	0.23	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 16:54	1.0	1.0	3	2.500	47447371001	2.490		ug/L	100		
131361	CCB					06-NOV-2007 16:57	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-003		131361	Soil	06-NOV-2007 16:59	1.0	98.04			47447371001	0.043	0.020	mg/Kg			u
131361	SAMPLE	198956-004		131361	Soil	06-NOV-2007 17:01	1.0	87.72			47447371001	0.078	0.020	mg/Kg			u
131361	SAMPLE	198956-005		131361	Soil	06-NOV-2007 17:03	1.0	102.0			47447371001	0.075	0.020	mg/Kg			u
131361	SAMPLE	198956-006		131361	Soil	06-NOV-2007 17:06	1.0	94.34			47447371001	0.073	0.020	mg/Kg			u
131361	SAMPLE	198956-007		131361	Soil	06-NOV-2007 17:08	1.0	73.53			47447371001	0.076	0.020	mg/Kg			u
131361	SAMPLE	198956-008		131361	Soil	06-NOV-2007 17:10	1.0	94.34			47447371001	0.0044 J	0.020	mg/Kg			u
131361	SAMPLE	198956-009		131361	Soil	06-NOV-2007 17:12	1.0	90.91			47447371001	0.0097 J	0.020	mg/Kg			u
131361	SAMPLE	198956-010		131361	Soil	06-NOV-2007 17:14	1.0	102.0			47447371001	0.014 J	0.020	mg/Kg			u
131361	SAMPLE	198956-012		131361	Soil	06-NOV-2007 17:17	1.0	102.0			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-013		131361	Soil	06-NOV-2007 17:19	1.0	78.13			47447371001	0.011 J	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 17:21	1.0	1.0	4	5.000	47447371001	5.010		ug/L	100		
131361	CCB					06-NOV-2007 17:23	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-014		131361	Soil	06-NOV-2007 17:26	1.0	89.29			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-015		131361	Soil	06-NOV-2007 17:28	1.0	106.4			47447371001	0.015 J	0.021	mg/Kg			u
131361	SAMPLE	198957-010		131361	Soil	06-NOV-2007 17:30	1.0	84.75			47447371001	0.099	0.020	mg/Kg			u
131361	SAMPLE	198957-011		131361	Soil	06-NOV-2007 17:32	1.0	96.15			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 17:35	1.0	89.29			47447371001	21 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 17:37	1.0	74.63			47447371001	47 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 18:12	20.0	84.75			47447371001	11	0.34	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 18:23	50.0	89.29			47447371001	17	0.89	mg/Kg			u
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:31	100.0	74.63			47447371001	800 >LR	1.5	mg/Kg			>LR cal
131361	CCV					06-NOV-2007 18:33	1.0	1.0	5	7.500	47447371001	7.160		ug/L	95		
131361	CCB					06-NOV-2007 18:36	1.0	1.0			47447371001	ND	0.20	ug/L			

Stds used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 11/6/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	110507r	ICALBLK				05-NOV-2007 08:30	1.0	1.0					
002	110507r	ICAL	CRIM08			05-NOV-2007 08:34	1.0	1.0				1	
003	110507r	ICAL	CS100			05-NOV-2007 08:38	1.0	1.0				2	
004	110507r	ICAL	CS1K			05-NOV-2007 08:41	1.0	1.0				3	
005	110507r	ICAL	CS10K			05-NOV-2007 08:44	1.0	1.0				4	
006	110507r	ICAL	CS100K			05-NOV-2007 08:47	1.0	1.0				5	
007	110507r	ICV				05-NOV-2007 08:53	1.0	1.0			5000	6	
008	110507r	ICB				05-NOV-2007 08:56	1.0	1.0			5000		
009	110507r	ICSA				05-NOV-2007 09:01	1.0	1.0			5000	7	10:AL=531691
010	110507r	ICSAB				05-NOV-2007 09:07	1.0	1.0			5000	8	5:AL=486901
011	110507r	SAMPLE	198921-002	131283	Miscel	05-NOV-2007 09:10	20.0	49.50			5000		1:FE=298405
012	110507r	SAMPLE	198929-007	131283	Soil	05-NOV-2007 09:13	10.0	47.62			5000		1:FE=240269
013	110507r	SAMPLE	198929-010	131283	Soil	05-NOV-2007 09:16	10.0	45.05			5000		
014	110507r	ICSAB				05-NOV-2007 09:19	1.0	1.0			5000	8	5:AL=496791
015	110507r	X	RINSE			05-NOV-2007 09:22	1.0						
016	110507r	BLANK	QC413589	131284	Soil	05-NOV-2007 09:26	1.0	50.0			5000		
017	110507r	BS	QC413590	131284	Soil	05-NOV-2007 09:30	1.0	50.0			5000		
018	110507r	BSD	QC413591	131284	Soil	05-NOV-2007 09:33	1.0	50.0			5000		
019	110507r	X	RINSE			05-NOV-2007 09:36	1.0						
020	110507r	CCV				05-NOV-2007 09:39	1.0	1.0			5000	9	
021	110507r	X	FLUSH			05-NOV-2007 09:42	1.0						
022	110507r	CCB				05-NOV-2007 09:46	1.0	1.0			5000		
023	110507r	MSS	198903-001	131284	Soil	05-NOV-2007 09:50	1.0	45.05	1		5000		1:FE=214998
024	110507r	MS	QC413592	131284	Soil	05-NOV-2007 09:52	1.0	47.17		1	5000		2:FE=216407
025	110507r	MSD	QC413593	131284	Soil	05-NOV-2007 09:54	1.0	48.08		4	5000		2:FE=228591
026	110507r	SER	QC413594	131284	Soil	05-NOV-2007 09:56	5.0	45.05		1	5000		
027	110507r	PDS	QC413595	131284	Soil	05-NOV-2007 09:59	1.0	45.05			5000	10 11	2:FE=235549
028	110507r	SAMPLE	198903-002	131284	Soil	05-NOV-2007 10:01	1.0	45.05			5000		5:FE=451360
029	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 10:03	1.0	47.17	2		5000		4:FE=365607
030	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 10:06	1.0	46.30	1		5000		2:FE=268314
31	110507r	?SAMPLE	198709-001			05-NOV-2007 10:08	1.0						

tds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

nalyst: _____ Date: 11/5/14

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	ICAL	STD03REP1				06-NOV-2007 16:11	1.0	1.0									
131361	ICAL	STD04REP1				06-NOV-2007 16:13	1.0	1.0									
131361	ICAL	STD05REP1				06-NOV-2007 16:15	1.0	1.0									
131361	ICAL	STD06REP1				06-NOV-2007 16:17	1.0	1.0									
131361	ICALBLK	STD01REP1				06-NOV-2007 16:20	1.0	1.0									
131361	ICAL	STD02REP1				06-NOV-2007 16:24	1.0	1.0									
131361	ICV					06-NOV-2007 16:27	1.0	1.0	2	5.000	47447371001	5.100		ug/L	102		
131361	ICB					06-NOV-2007 16:29	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	BLANK	QC413907		131361	Soil	06-NOV-2007 16:31	1.0	100.0			47447371001	ND	0.020	mg/Kg			u
131361	BS	QC413908		131361	Soil	06-NOV-2007 16:34	1.0	100.0		0.5000	47447371001	0.5160	0.020	mg/Kg	103		u
131361	BSD	QC413909		131361	Soil	06-NOV-2007 16:37	1.0	100.0		0.5000	47447371001	0.5210	0.020	mg/Kg	104	1	u
131361	MSS	198956-001		131361	Soil	06-NOV-2007 16:39	1.0	86.21			47447371001	0.044	0.020	mg/Kg			u
131361	SER	QC413910	198956-001	131361	Soil	06-NOV-2007 16:41	5.0	86.21			47447371001	ND	0.086	mg/Kg		--	u
131361	MS	QC413911	198956-001	131361	Soil	06-NOV-2007 16:43	1.0	86.21		0.4310	47447371001	0.5078	0.020	mg/Kg	108		u
131361	MSD	QC413912	198956-001	131361	Soil	06-NOV-2007 16:45	1.0	106.4		0.5319	47447371001	0.6117	0.021	mg/Kg	107	1	u
131361	SAMPLE	198880-001		131361	Soil	06-NOV-2007 16:47	1.0	86.21			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 16:50	1.0	84.75			47447371001	14 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198947-001		131361	Soil	06-NOV-2007 16:52	1.0	84.75			47447371001	0.23	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 16:54	1.0	1.0	3	2.500	47447371001	2.490		ug/L	100		
131361	CCB					06-NOV-2007 16:57	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-003		131361	Soil	06-NOV-2007 16:59	1.0	98.04			47447371001	0.043	0.020	mg/Kg			u
131361	SAMPLE	198956-004		131361	Soil	06-NOV-2007 17:01	1.0	87.72			47447371001	0.078	0.020	mg/Kg			u
131361	SAMPLE	198956-005		131361	Soil	06-NOV-2007 17:03	1.0	102.0			47447371001	0.075	0.020	mg/Kg			u
131361	SAMPLE	198956-006		131361	Soil	06-NOV-2007 17:06	1.0	94.34			47447371001	0.073	0.020	mg/Kg			u
131361	SAMPLE	198956-007		131361	Soil	06-NOV-2007 17:08	1.0	73.53			47447371001	0.076	0.020	mg/Kg			u
131361	SAMPLE	198956-008		131361	Soil	06-NOV-2007 17:10	1.0	94.34			47447371001	0.0044 J	0.020	mg/Kg			u
131361	SAMPLE	198956-009		131361	Soil	06-NOV-2007 17:12	1.0	90.91			47447371001	0.0097 J	0.020	mg/Kg			u
131361	SAMPLE	198956-010		131361	Soil	06-NOV-2007 17:14	1.0	102.0			47447371001	0.014 J	0.020	mg/Kg			u
131361	SAMPLE	198956-012		131361	Soil	06-NOV-2007 17:17	1.0	102.0			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-013		131361	Soil	06-NOV-2007 17:19	1.0	78.13			47447371001	0.011 J	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 17:21	1.0	1.0	4	5.000	47447371001	5.010		ug/L	100		
131361	CCB					06-NOV-2007 17:23	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-014		131361	Soil	06-NOV-2007 17:26	1.0	89.29			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-015		131361	Soil	06-NOV-2007 17:28	1.0	106.4			47447371001	0.015 J	0.021	mg/Kg			u
131361	SAMPLE	198957-010		131361	Soil	06-NOV-2007 17:30	1.0	84.75			47447371001	0.099	0.020	mg/Kg			u
131361	SAMPLE	198957-011		131361	Soil	06-NOV-2007 17:32	1.0	96.15			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 17:35	1.0	89.29			47447371001	21 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 17:37	1.0	74.63			47447371001	47 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 18:12	20.0	84.75			47447371001	11	0.34	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 18:23	50.0	89.29			47447371001	17	0.89	mg/Kg			u
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:31	100.0	74.63			47447371001	800 >LR	1.5	mg/Kg			>LR cal
131361	CCV					06-NOV-2007 18:33	1.0	1.0	5	7.500	47447371001	7.160		ug/L	95		
131361	CCB					06-NOV-2007 18:36	1.0	1.0			47447371001	ND	0.20	ug/L			

Stds used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 11/6/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:42	2000	74.63			47447371001	590	30	mg/Kg			u
131361	CCV					06-NOV-2007 18:45	1.0	1.0	5	7.500	47447371001	7.420		ug/L	99		
131361	CCB					06-NOV-2007 18:47	1.0	1.0			47447371001	ND	0.20	ug/L			

s used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
ds used: >UR=overrange b=noncompliant calc=check quantitation u=use

yst: _____ Date: 11/6/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:42	2000	74.63			47447371001	590	30	mg/Kg			u
131361	CCV					06-NOV-2007 18:45	1.0	1.0	5	7.500	47447371001	7.420		ug/L	99		
131361	CCB					06-NOV-2007 18:47	1.0	1.0			47447371001	ND	0.20	ug/L			

s used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
ds used: >UR=overrange b=noncompliant calc=check quantitation u=use

yst: _____ Date: 11/6/07

Curtis & Tompkins Laboratories Sample Preparation Summary 06-NOV-2007 18:53

Batch Number : 131361
Date Extracted: 06-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7606
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198880-001			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		
198880-002			Mactec, Inc.	Soil	.59	g	50	84.745763	1					T26/HG		
198947-001			TRC Solutions	Soil	.59	g	50	84.745763	1					T26/HG		
198956-001			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		MSS
198956-003			Mactec, Inc.	Soil	.51	g	50	98.039216	1					T26/HG		
198956-004			Mactec, Inc.	Soil	.57	g	50	87.719298	1					T26/HG		
198956-005			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-006			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
198956-007			Mactec, Inc.	Soil	.68	g	50	73.529412	1					T26/HG		
198956-008			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
198956-009			Mactec, Inc.	Soil	.55	g	50	90.909091	1					T26/HG		
198956-010			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-012			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-013			Mactec, Inc.	Soil	.64	g	50	78.125000	1					T26/HG		
198956-014			Mactec, Inc.	Soil	.56	g	50	89.285714	1					T26/HG		
198956-015			Mactec, Inc.	Soil	.47	g	50	106.382979	1					T26/HG		
198957-010			Northgate Environmental Manage	Soil	.59	g	50	84.745763	1					T26/HG		
198957-011			Northgate Environmental Manage	Soil	.52	g	50	96.153846	1					T26/HG		
198957-012			Northgate Environmental Manage	Soil	.56	g	50	89.285714	1					T26/HG		
198965-001			ConocoPhillips Company	Miscell.	.67	g	50	74.626866	1					T26/HG		
QC413907	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC413908	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC413909	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC413910	SER	of 198956-001		Soil	.58	g	50	86.206897	1					HG		
QC413911	MS	of 198956-001		Soil	.58	g	50	86.206897	1		2.5			HG		
QC413912	MSD	of 198956-001		Soil	.47	g	50	106.382979	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/6/07

Relinquished By: _____ Received By: _____ Date: 11/6/07

198956

MACTEC

CHAIN OF CUSTODY RECORD

3823

198903

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Excavation 3
JOB NO.: 4088
SAMPLERS (SIGNATURE): Scott Bal
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 11/1/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) including 1,2-DCA; TPHg (8015M); TPHd+TPHmo-w-silica gel (8015M); CAMs (6010-6020); Title 22 Metals	FOR LAB USE ONLY
~~1305~~	X		SO	1065EX359[4.0]	~~8~~15 S~~8~~W-4.0 SW	sample + MS/MSD	14	X X X X X	
~~1335~~	X		SO	1065EX360[4.0]	~~11~~11515W-4.0 SW		7	X X X X X	
~~1330~~	X		SO	DUP110107	11515W-4.0 SW		7	X X X X X	
~~[illegible]~~			~~SO~~	~~1065EX361[4.5]~~	~~13535W-4.5 SW~~		~~7~~	~~X X X X X~~	
1420			W	1065EX360RB361	EB		12	X X X X X	
NA			W	TB 110107	TB		2	X X	
1440	X		SO	1065EX361[4.5]	13535W-4.5 SW		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
Scott Bal	11/1/07 1600	[illegible]	11/1/07 1600			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

F1008 (05/00)

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: x Client Request By: M.Heassler Date/Time: 11/6/07 20:03 Initials: SES
Login Review Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
198903-007		1065EX362[5.5]	Soil	Add	ETVH, E8260, TEHM	11/13
					8270-SIM, Moisture	
					T26/ICP, T26/HG	

5555

MACTEC

CHAIN OF CUSTODY RECORD

198903

3323

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION
NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Excavation 3
JOB NO.: 4088
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRC
SAMPLING DATE: 11/1/07

	TIME	GRAB	COMP	MATRIX*	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES (including preservation) VOC (8260B) TPHg (8015M) TPHd-TPHmo-silica gel (8015M) PAHs (8270-SIM) Title 22 Metals (6010/7000/7470)	FOR LAB USE ONLY
1	1305	X		SO	1065EX359[4.0]	15 8S 5W-4.0 SW	Sample + MS/MSD	14	X X X X X X	
2	1330	X		SO	1065EX360[4.0]	11S 15W- 4.0 SW		7	X X X X X X	
3	1335	X		SO	DUP110107	11S 15W- 4.0 SW		7	X X X X X X	
	[illegible]				[illegible]	[illegible]		7	X X X X X X	
4	1420			W	1065EX360RB3rd	EB		12	X X X X X X	
5	NA			W	TB 110107	TB		2	X X	
6	1440	X		SO	1065EX361[4.5]	13 5S 5W -4.5 SW		7	X X X X X X	
	1505			SO	1065EX362[5.5]	11S-20W			X X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	11/1/07 1600		11/1 1600			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

60009

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 327389838001
Units : ng

Name : MBTXE TFT/BFB 270
Date : 27-SEP-2007 17:55
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	270_011	327389838011	BTXE_1	27-SEP-2007 17:55	S7260 (1000X), S7273 (5000X)
L2	270_012	327389838012	MBTXE_2	27-SEP-2007 18:32	S7258 (1250X), S7273 (5000X)
L3	270_013	327389838013	MBTXE_3	27-SEP-2007 19:09	S7258 (500X), S7273 (5000X)
L4	270_014	327389838014	MBTXE_4	27-SEP-2007 19:46	S7258 (125X), S7273 (5000X)
L5	270_015	327389838015	MBTXE_5	27-SEP-2007 20:23	S7257 (1000X), S7273 (5000X)
L6	270_016	327389838016	MBTXE_6	27-SEP-2007 21:00	S7257 (500X), S7273 (5000X)
L7	270_017	327389838017	MBTXE_7	27-SEP-2007 21:38	S7257 (250X), S7273 (5000X)
L8	270_018	327389838018	MTBE_7	27-SEP-2007 22:15	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2574.8	2543.4	2652.4	2657.1	2526.3	2598.4	2628.9	2500.5	AVRG		3.87E-4		2585.2	2	0.995	20	
Bromofluorobenzene (FID)	A	2167.6	2036.9	2108.7	2121.6	2053.1	2054.6	2101.1	2030.0	AVRG		4.80E-4		2084.2	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-2	450.0	3	450.0	3	450.0	-2	450.0	1	450.0	2	450.0	-3
Bromofluorobenzene (FID)	A	450.0	4	450.0	-2	450.0	1	450.0	2	450.0	-1	450.0	-1	450.0	1	450.0	-3

CP 09/28/07 : Can not report MTBE from channel C. Channel C will be confirm only.

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Water: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 307435352001
Units : ng

Name : GC04 MBTXE/SURR 302
Date : 29-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	302_009	307435352009	BTXE_1	29-OCT-2007 19:38	S7260 (1000X), S7356 (5000X)
L2	302_010	307435352010	MBTXE_2	29-OCT-2007 20:15	S7258 (1250X), S7356 (5000X)
L3	302_011	307435352011	MBTXE_3	29-OCT-2007 20:53	S7258 (500X), S7356 (5000X)
L4	302_012	307435352012	MBTXE_4	29-OCT-2007 21:31	S7258 (125X), S7356 (5000X)
L5	302_013	307435352013	MBTXE_5	29-OCT-2007 22:08	S7257 (1000X), S7356 (5000X)
L6	302_014	307435352014	MBTXE_6	29-OCT-2007 22:46	S7257 (500X), S7356 (5000X)
L7	302_015	307435352015	MBTXE_7	29-OCT-2007 23:24	S7257 (250X), S7356 (5000X)
L8	302_016	307435352016	MTBE_7	30-OCT-2007 00:01	S6302 (500X), S7356 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3913.7	4177.7	3904.1	3661.5	3896.1	3977.3	3937.1	3852.6	AVRG		2.55E-4		3915.0	4	0.995	20	
Bromofluorobenzene (FID)	A	2412.2	2540.8	2428.9	2291.4	2510.4	2558.1	2584.1	2348.4	AVRG		4.07E-4		2459.3	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	7	450.0	0	450.0	-6	450.0	0	450.0	2	450.0	1	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-2	450.0	3	450.0	-1	450.0	-7	450.0	2	450.0	4	450.0	5	450.0	-5

MJM 10/30/07 : ICV: MTBE Failed low Ch. C. Report analyte from Ch. B. Ch. C to be used as confirm only.

Analyst: MJM Date: 10/30/07 Reviewer: LH Date: 10/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

307435352001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 327389838001
Units : ng

Name : MBTXE TFT/BFB 270
Date : 27-SEP-2007 17:55
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	270_011	327389838011	BTXE_1	27-SEP-2007 17:55	S7260 (1000X), S7273 (5000X)
L2	270_012	327389838012	MBTXE_2	27-SEP-2007 18:32	S7258 (1250X), S7273 (5000X)
L3	270_013	327389838013	MBTXE_3	27-SEP-2007 19:09	S7258 (500X), S7273 (5000X)
L4	270_014	327389838014	MBTXE_4	27-SEP-2007 19:46	S7258 (125X), S7273 (5000X)
L5	270_015	327389838015	MBTXE_5	27-SEP-2007 20:23	S7257 (1000X), S7273 (5000X)
L6	270_016	327389838016	MBTXE_6	27-SEP-2007 21:00	S7257 (500X), S7273 (5000X)
L7	270_017	327389838017	MBTXE_7	27-SEP-2007 21:38	S7257 (250X), S7273 (5000X)
L8	270_018	327389838018	MTBE_7	27-SEP-2007 22:15	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2574.8	2543.4	2652.4	2657.1	2526.3	2598.4	2628.9	2500.5	AVRG		3.87E-4		2585.2	2	0.995	20	
Bromofluorobenzene (FID)	A	2167.6	2036.9	2108.7	2121.6	2053.1	2054.6	2101.1	2030.0	AVRG		4.80E-4		2084.2	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-2	450.0	3	450.0	3	450.0	-2	450.0	1	450.0	2	450.0	-3
Bromofluorobenzene (FID)	A	450.0	4	450.0	-2	450.0	1	450.0	2	450.0	-1	450.0	-1	450.0	1	450.0	-3

CP 09/28/07 : Can not report MTBE from channel C. Channel C will be confirm only.

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

117061448001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183006
Units : mg/L

Name : dsl
Date : 10-OCT-2007 12:00
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_003	227408183003	DSL_10	10-OCT-2007 12:00	S6612
L2	283_004	227408183004	DSL_100	10-OCT-2007 12:29	S6613
L3	283_005	227408183005	DSL_500	10-OCT-2007 12:58	S6614
L4	283_006	227408183006	DSL_1000	10-OCT-2007 13:27	S6615
L5	283_007	227408183007	DSL_5000	10-OCT-2007 13:56	S6611
L6	283_008	227408183008	DSL_7500	10-OCT-2007 14:25	S6616

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	57537	63636	64700	63713	59922	65554	AVRG		1.60E-5		62510	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	B	10.00	-8	100.0	2	500.0	4	1000	2	5000	-4	7500	5

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183005
Units : mg/L

Name : Motor Oil
Date : 10-OCT-2007 16:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_012	227408183012	MO_50	10-OCT-2007 16:20	S6848
L2	283_013	227408183013	MO_250	10-OCT-2007 16:48	S6849
L3	283_014	227408183014	MO_500	10-OCT-2007 17:16	S6850
L4	283_015	227408183015	MO_1000	10-OCT-2007 17:44	S6851
L5	283_040	227408183040	MO_5000	11-OCT-2007 10:35	S6846

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	39282	41294	41437	39011	31093	AVRG		2.60E-5		38423	11	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	B	50.00	2	250.0	7	500.0	8	1000	2	5000	-19

Analyst: ATL Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183002
Units : mg/L

Name : HEX
Date : 10-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_019	227408183019	HEX_5	10-OCT-2007 19:38	S7036
L2	283_020	227408183020	HEX_10	10-OCT-2007 20:06	S7037
L3	283_021	227408183021	HEX_25	10-OCT-2007 20:34	S7038
L4	283_022	227408183022	HEX_50	10-OCT-2007 21:03	S7039
L5	283_023	227408183023	HEX_100	10-OCT-2007 21:31	S7040
L6	283_024	227408183024	HEX_200	10-OCT-2007 22:00	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	62663	62290	59838	61265	60611	52506	AVRG		1.67E-5		59862	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	5	10.00	4	25.00	0	50.00	2	100.0	1	200.0	-12

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Curtis & Tompkins Laboratories Sample Preparation Summary 12-NOV-2007 18:59

Batch Number : 131530
Date Extracted: 09-NOV-2007
Extracted by : Kevin Gaines
Prep Method : 3010A

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S6920
Spike #2 ID : S6921
Spike #3 ID :
SOP Version : 3010A_ICP_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198880-004			Mactec, Inc.	Water	50	mL	50	1.000000	1					ICAP		
198904-001			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-002			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-003			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-004			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198904-005			Sullivan International Group,	Water	50	mL	50	1.000000	1					HARDNESS, TAL/ICP		
198925-003			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
198999-005			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
198999-006			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
199007-002			Morton Salt	Water	50	mL	50	1.000000	1					CU, NI, PB, SE, ZN		
199027-001			SAIC	Water	50	mL	50	1.000000	1					CD, CR, CU, (more)		
199029-001			SAIC	Water	50	mL	50	1.000000	1					CD, CR, CU, (more)		
199033-009			Acme Fill Corp.	Water	50	mL	50	1.000000	1					CU, NI, PB, ZN		
199076-001			TRC Environmental Solutions, I	Water	50	mL	50	1.000000	1					ICAP		
199076-003			TRC Environmental Solutions, I	Water	50	mL	50	1.000000	1					ICAP		
QC414614	BLANK			Water	50	mL	50	1.000000	1					ICAP		
QC414615	BS			Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414616	BSD			Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414617	MS	of 198904-001		Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414618	MSD	of 198904-001		Water	50	mL	50	1.000000	1		.5	.5		ICAP		
QC414619	SER	of 198904-001		Water	50	mL	50	1.000000	1					ICAP		
QC414620	PDS	of 198904-001		Water	50	mL	50	1.000000	1					ICAP		

00323

Prep Chemist: JF for KG 11/12/07 Reviewed By: JF Date: 11/12/07

Relinquished By: JF for KG 11/12/07 Received By: JF Date: 11/12/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

st : MET14
lnum : 847445847001
its : ug/L

Date : 05-NOV-2007 14:47
X Axis : R

Reviewer : ---
Type : WATER

vel	File	Seqnum	Sample ID	Analyzed	Stds
1	131311	847445847002	STD03REP1	05-NOV-2007 14:51	S7606 (200X)
2	131311	847445847003	STD04REP1	05-NOV-2007 14:54	S7606 (50X)
3	131311	847445847004	STD05REP1	05-NOV-2007 14:56	S7606 (20X)
4	131311	847445847005	STD06REP1	05-NOV-2007 14:58	S7606 (10X)
5	131311	847445847006	STD02REP1	05-NOV-2007 15:05	S7606 (500X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	2534.0	2642.0	2363.4	2229.6	3060.0	LINR	-0.1608	4.50E-4		2565.8	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.500	-18	2.000	11	5.000	3	10.00	-1	0.200	-43

stirment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

847445847001

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 847445847 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 05-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131311	ICALBLK	STD01REP1				05-NOV-2007 14:47	1.0	1.0									
131311	ICAL	STD03REP1				05-NOV-2007 14:51	1.0	1.0									
131311	ICAL	STD04REP1				05-NOV-2007 14:54	1.0	1.0									
131311	ICAL	STD05REP1				05-NOV-2007 14:56	1.0	1.0									
131311	ICAL	STD06REP1				05-NOV-2007 14:58	1.0	1.0									
131311	ICAL	STD02REP1				05-NOV-2007 15:05	1.0	1.0									
131311	ICV					05-NOV-2007 15:10	1.0	1.0	2	5.000	847445847001	5.230		ug/L	105		
131311	ICB					05-NOV-2007 15:13	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	BLANK	QC413686		131311	Water	05-NOV-2007 15:15	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	BS	QC413687		131311	Water	05-NOV-2007 15:18	1.0	1.0		5.000	847445847001	4.880	0.20	ug/L	98		u
131311	BSD	QC413688		131311	Water	05-NOV-2007 15:20	1.0	1.0		5.000	847445847001	5.120	0.20	ug/L	102	5	u
131311	MSS	198814-002		131311	Filtra	05-NOV-2007 15:22	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SER	QC413689	198814-002	131311	Filtra	05-NOV-2007 15:24	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413690	198814-002	131311	Filtra	05-NOV-2007 15:27	1.0	1.0		5.000	847445847001	5.640	0.20	ug/L	113		u
131311	MSD	QC413691	198814-002	131311	Filtra	05-NOV-2007 15:29	1.0	1.0		5.000	847445847001	5.410	0.20	ug/L	108	4	u
131311	MSS	198836-001		131311	Water	05-NOV-2007 15:31	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SER	QC413692	198836-001	131311	Water	05-NOV-2007 15:33	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413693	198836-001	131311	Water	05-NOV-2007 15:35	1.0	1.0		5.000	847445847001	5.350	0.20	ug/L	107		u
131311	CCV					05-NOV-2007 15:37	1.0	1.0	3	2.500	847445847001	2.650		ug/L	106		
131311	CCB					05-NOV-2007 15:39	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	MSD	QC413694	198836-001	131311	Water	05-NOV-2007 15:42	1.0	1.0		5.000	847445847001	5.570	0.20	ug/L	111	4	u
131311	MSS	198854-001		131311	TCLP L	05-NOV-2007 15:44	1.0	1.0			847445847001	ND	2.0	ug/L			u
131311	SER	QC413695	198854-001	131311	TCLP L	05-NOV-2007 15:47	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413696	198854-001	131311	TCLP L	05-NOV-2007 15:49	1.0	1.0									
131311	MSD	QC413697	198854-001	131311	TCLP L	05-NOV-2007 15:51	1.0	1.0									
131311	MSS	198854-001		131311	WET Le	05-NOV-2007 15:53	1.0	5.0			847445847001	ND	2.0	ug/L			u
131311	SER	QC413698	198854-001	131311	WET Le	05-NOV-2007 15:55	5.0	5.0			847445847001	ND	5.0	ug/L		--	u
131311	MS	QC413699	198854-001	131311	WET Le	05-NOV-2007 15:58	1.0	5.0		25.00	847445847001	22.70	1.0	ug/L	91		u
131311	MSD	QC413700	198854-001	131311	WET Le	05-NOV-2007 16:01	1.0	5.0		25.00	847445847001	24.35	1.0	ug/L	97	7	u
131311	MSS	198925-003		131311	Filtra	05-NOV-2007 16:03	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	CCV					05-NOV-2007 16:06	1.0	1.0	4	7.500	847445847001	7.690		ug/L	103		
131311	CCB					05-NOV-2007 16:08	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	SER	QC413701	198925-003	131311	Filtra	05-NOV-2007 16:10	5.0	1.0			847445847001	ND	1.0	ug/L		--	u
131311	MS	QC413702	198925-003	131311	Filtra	05-NOV-2007 16:12	1.0	1.0		5.000	847445847001	5.110	0.20	ug/L	102		u
131311	MSD	QC413703	198925-003	131311	Filtra	05-NOV-2007 16:14	1.0	1.0		5.000	847445847001	5.090	0.20	ug/L	102	0	u
131311	PREPBLK	QC413704		131311	TCLP L	05-NOV-2007 16:17	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	PREPBLK	QC413705		131311	WET Le	05-NOV-2007 16:19	1.0	5.0			847445847001	ND	1.0	ug/L			u
131311	SAMPLE	198814-003		131311	Filtra	05-NOV-2007 16:21	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-002		131311	Water	05-NOV-2007 16:23	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-003		131311	Water	05-NOV-2007 16:25	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-004		131311	Water	05-NOV-2007 16:28	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198836-006		131311	Water	05-NOV-2007 16:30	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	CCV					05-NOV-2007 16:32	1.0	1.0	5	5.000	847445847001	5.130		ug/L	103		

ds used: 1=S7606 2=S7608 3=S7609 4=S7611 5=S7610
ags used: u=use

alyst: _____ Date: 11/15/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 847445847 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 05-NOV-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131311	CCB					05-NOV-2007 16:35	1.0	1.0			847445847001	ND	0.20	ug/L			
131311	SAMPLE	198865-001		131311	Water	05-NOV-2007 16:37	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198880-004		131311	Water	05-NOV-2007 16:40	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198908-008		131311	Filtra	05-NOV-2007 16:42	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198908-012		131311	Filtra	05-NOV-2007 16:45	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198924-003		131311	Filtra	05-NOV-2007 16:47	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198926-001		131311	Water	05-NOV-2007 16:49	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198944-001		131311	Water	05-NOV-2007 16:52	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	SAMPLE	198946-001		131311	Water	05-NOV-2007 16:55	1.0	1.0			847445847001	2.3	0.20	ug/L			u
131311	SAMPLE	198956-002		131311	Water	05-NOV-2007 16:57	1.0	1.0			847445847001	ND	0.20	ug/L			u
131311	CCV					05-NOV-2007 16:59	1.0	1.0	4	7.500	847445847001	7.700		ug/L	103		
131311	CCB					05-NOV-2007 17:02	1.0	1.0			847445847001	ND	0.20	ug/L			

ds used: 1=S7606 2=S7608 3=S7609 4=S7611 5=S7610
ags used: u=use

nalyst: _____ Date: 11/5/07

Curtis & Tompkins Laboratories Sample Preparation Summary 05-NOV-2007 12:32

Batch Number : 131311
Date Extracted: 05-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S7606
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198814-002			Weston Solutions	Filtrate	50	mL	50	1.000000	1				TAL/HG		MSS
198814-003			Weston Solutions	Filtrate	50	mL	50	1.000000	1				TAL/HG		
198836-001			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		MSS
198836-002			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198836-003			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198836-004			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198836-006			Sullivan International Group,	Water	50	mL	50	1.000000	1				TAL/HG		
198854-001			ConocoPhillips Company	TCLP Leach	50	mL	50	1.000000	1				HG		MSS
198854-001			ConocoPhillips Company	WET Leacha	10	mL	50	5.000000	1				HG		MSS
198865-001			Kensington Laboratories	Water	50	mL	50	1.000000	1				HG		
198880-004			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/HG		
198908-008			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198908-012			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198924-003			TRC Environmental Solutions, I	Filtrate	50	mL	50	1.000000	1				T26/HG		
198925-003			Barajas & Associates, Inc.	Filtrate	50	mL	50	1.000000	1				TAL/HG		MSS
198926-001			URS Corporation	Water	50	mL	50	1.000000	1				HG		
198944-001			Union Sanitary District	Water	50	mL	50	1.000000	1				HG		
198946-001			TRC Solutions	Water	50	mL	50	1.000000	1				HG		
198956-002			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/HG		
QC413686	BLANK			Water	50	mL	50	1.000000	1				HG		
QC413687	BS			Water	50	mL	50	1.000000	1	2.5			HG		
QC413688	BSD			Water	50	mL	50	1.000000	1	2.5			HG		
QC413689	SER	of 198814-002		Filtrate	50	mL	50	1.000000	1				HG		
QC413690	MS	of 198814-002		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413691	MSD	of 198814-002		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413692	SER	of 198836-001		Water	50	mL	50	1.000000	1				HG		
QC413693	MS	of 198836-001		Water	50	mL	50	1.000000	1	2.5			HG		
QC413694	MSD	of 198836-001		Water	50	mL	50	1.000000	1	2.5			HG		
QC413695	SER	of 198854-001		TCLP Leach	50	mL	50	1.000000	1				HG		
QC413696	MS	of 198854-001		TCLP Leach	50	mL	50	1.000000	1	2.5			HG		
QC413697	MSD	of 198854-001		TCLP Leach	50	mL	50	1.000000	1	2.5			HG		
QC413698	SER	of 198854-001		WET Leacha	10	mL	50	5.000000	1				HG		
QC413699	MS	of 198854-001		WET Leacha	10	mL	50	5.000000	1	2.5			HG		
QC413700	MSD	of 198854-001		WET Leacha	10	mL	50	5.000000	1	2.5			HG		
QC413701	SER	of 198925-003		Filtrate	50	mL	50	1.000000	1				HG		
QC413702	MS	of 198925-003		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413703	MSD	of 198925-003		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC413704	PREPBLK			TCLP Leach	50	mL	50	1.000000	1				HG		
QC413705	PREPBLK			WET Leacha	10	mL	50	5.000000	1				HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/5/07

Relinquished By: _____ Received By: _____ Date: 11/5/07

0330

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87445470001
Units : ug/L

Date : 05-NOV-2007 08:30
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110507r	87445470002	CRIM08	05-NOV-2007 08:34	S7555
L2	110507r	87445470003	CS100	05-NOV-2007 08:3[illegible]	S7382
L3	110507r	87445470004	CS1K	05-NOV-2007 08:41	S7381
L4	110507r	87445470005	CS10K	05-NOV-2007 08:44	S7383
L5	110507r	87445470006	CS100K	05-NOV-2007 08:47	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	27.338	29.077	29.102	30.164		LOR0	0.00000	0.03316		28.920	1.000	0.995	
Arsenic	A	15.607	18.554	18.182	18.092		LOR0	0.00000	0.05527		17.609	1.000	0.995	
Barium	A	444.99	445.48	433.51	424.08		LOR0	0.00000	0.00236		437.01	1.000	0.995	
Beryllium	A	3137.0	3067.0	3040.6			LOR0	0.00000	3.29E-4		3081.5	1.000	0.995	
Boron	A	148.03		149.51	157.11		LOR0	0.00000	0.00637		151.55	1.000	0.995	
Cadmium	A	215.11	220.76	219.41	215.65		LOR0	0.00000	0.00464		217.73	1.000	0.995	
Chromium	A	67.933	67.985	66.570	66.766		LOR0	0.00000	0.01498		67.314	1.000	0.995	
Cobalt	A	113.74	112.40	116.36	116.04		LOR0	0.00000	0.00862		114.64	1.000	0.995	
Copper	A	411.40	404.69	406.43	408.24		LOR0	0.00000	0.00245		407.69	1.000	0.995	
Lead	A	37.464	43.094	43.131	42.841		LOR0	0.00000	0.02334		41.632	1.000	0.995	
Manganese	A	1366.4	1366.2	1324.9	1273.7		LOR0	0.00000	7.85E-4		1332.8	1.000	0.995	
Molybdenum	A	38.010	37.756	36.579	36.887		LOR0	0.00000	0.02711		37.308	1.000	0.995	
Nickel	A	37.818	37.533	38.799	38.721		LOR0	0.00000	0.02583		38.218	1.000	0.995	
Selenium	A	26.794	27.732	27.253	28.741		LOR0	0.00000	0.03481		27.630	1.000	0.995	
Silver	A	381.77	475.31	468.31	480.10		LOR0	0.00000	0.00209		451.37	1.000	0.995	
Thallium	A	17.092	18.165	17.837	17.589		LOR0	0.00000	0.05685		17.671	1.000	0.995	
Tin	A	22.262	22.463	22.224	23.750		LOR0	0.00000	0.04213		22.675	1.000	0.995	
Titanium	A	1183.5	1237.5	1203.8	1178.5		LOR0	0.00000	8.48E-4		1200.8	1.000	0.995	
Vanadium	A	105.01	107.22	105.78	107.88		LOR0	0.00000	0.00927		106.47	1.000	0.995	
Zinc	A	139.75	85.167	79.333	80.262		LOR0	0.00000	0.01246		96.127	1.000	0.995	
Aluminum	R	1.5039		1.4330	1.3730	1.4485	LOR0	0.00000	0.69072		1.4396	1.000	0.995	
Calcium	R	15.868		15.862	14.885	15.745	LOR0	0.00000	0.06355		15.590	1.000	0.995	
Iron	R	13.279		12.948	12.112	12.926	LOR0	0.00000	0.07741		12.816	1.000	0.995	
Magnesium	R	2.1976		2.1822	2.0190	2.1327	LOR0	0.00000	0.46914		2.1329	1.000	0.995	
Potassium	R	4.3320		4.9462	4.5705	5.0277	LOR0	0.00000	0.19908		4.7191	1.000	0.995	
Sodium	R	11.147		11.472	10.734	11.253	LOR0	0.00000	0.08891		11.151	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-9	100.0	-4	1000	-3	10000	0		
Arsenic	A	5.000	-14	100.0	3	1000	0	10000	0		
Barium	A	5.000	5	100.0	5	1000	2	10000	0		
Beryllium	A	2.000	3	100.0	1	1000	0				
Boron	A	100.0	-6			1000	-5	10000	0		
Cadmium	A	5.000	0	100.0	2	1000	2	10000	0		
Chromium	A	5.000	2	100.0	2	1000	0	10000	0		
Cobalt	A	5.000	-2	100.0	-3	1000	0	10000	0		
Copper	A	5.000	1	100.0	-1	1000	0	10000	0		
Lead	A	3.000	-13	100.0	1	1000	1	10000	0		
Manganese	A	5.000	7	100.0	7	1000	4	10000	0		
Molybdenum	A	5.000	3	100.0	2	1000	-1	10000	0		
Nickel	A	5.000	-2	100.0	-3	1000	0	10000	0		
Selenium	A	5.000	-7	100.0	-3	1000	-5	10000	0		
Silver	A	5.000	-20	100.0	-1	1000	-2	2000	0		
Thallium	A	5.000	-3	100.0	3	1000	1	10000	0		
Tin	A	40.00	-6	100.0	-5	1000	-6	10000	0		
Titanium	A	10.00	0	100.0	5	1000	2	10000	0		
Vanadium	A	5.000	-3	100.0	-1	1000	-2	10000	0		
Zinc	A	20.00	74	100.0	6	1000	-1	10000	0		
Aluminum	R	100.0	4			1000	-1	10000	-5	100000	0
Calcium	R	200.0	1			1000	1	10000	-5	100000	0
Iron	R	100.0	3			1000	0	10000	-6	100000	0
Magnesium	R	200.0	3			1000	2	10000	-5	100000	0
Potassium	R	500.0	-14			1000	-2	10000	-9	100000	0
Sodium	R	500.0	-1			1000	2	10000	-5	100000	0

0034

nstrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	110507r	ICALBLK				05-NOV-2007 08:30	1.0	1.0					
002	110507r	ICAL	CRIM08			05-NOV-2007 08:34	1.0	1.0				1	
003	110507r	ICAL	CS100			05-NOV-2007 08:38	1.0	1.0				2	
004	110507r	ICAL	CS1K			05-NOV-2007 08:41	1.0	1.0				3	
005	110507r	ICAL	CS10K			05-NOV-2007 08:44	1.0	1.0				4	
006	110507r	ICAL	CS100K			05-NOV-2007 08:47	1.0	1.0				5	
007	110507r	ICV				05-NOV-2007 08:53	1.0	1.0			5000	6	
008	110507r	ICB				05-NOV-2007 08:56	1.0	1.0			5000		
009	110507r	ICSA				05-NOV-2007 09:01	1.0	1.0			5000	7	10:AL=531691
010	110507r	ICSAB				05-NOV-2007 09:07	1.0	1.0			5000	8	5:AL=486901
011	110507r	SAMPLE	198921-002	131283	Miscel	05-NOV-2007 09:10	20.0	49.50			5000		1:FE=298405
012	110507r	SAMPLE	198929-007	131283	Soil	05-NOV-2007 09:13	10.0	47.62			5000		1:FE=240269
013	110507r	SAMPLE	198929-010	131283	Soil	05-NOV-2007 09:16	10.0	45.05			5000		
014	110507r	ICSAB				05-NOV-2007 09:19	1.0	1.0			5000	8	5:AL=496791
015	110507r	X	RINSE			05-NOV-2007 09:22	1.0						
016	110507r	BLANK	QC413589	131284	Soil	05-NOV-2007 09:26	1.0	50.0			5000		
017	110507r	BS	QC413590	131284	Soil	05-NOV-2007 09:30	1.0	50.0			5000		
018	110507r	BSD	QC413591	131284	Soil	05-NOV-2007 09:33	1.0	50.0			5000		
019	110507r	X	RINSE			05-NOV-2007 09:36	1.0						
020	110507r	CCV				05-NOV-2007 09:39	1.0	1.0			5000	9	
021	110507r	X	FLUSH			05-NOV-2007 09:42	1.0						
022	110507r	CCB				05-NOV-2007 09:46	1.0	1.0			5000		
023	110507r	MSS	198903-001	131284	Soil	05-NOV-2007 09:50	1.0	45.05	1		5000		1:FE=214998
024	110507r	MS	QC413592	131284	Soil	05-NOV-2007 09:52	1.0	47.17		1	5000		2:FE=216407
025	110507r	MSD	QC413593	131284	Soil	05-NOV-2007 09:54	1.0	48.08		4	5000		2:FE=228591
026	110507r	SER	QC413594	131284	Soil	05-NOV-2007 09:56	5.0	45.05		1	5000		
027	110507r	PDS	QC413595	131284	Soil	05-NOV-2007 09:59	1.0	45.05			5000	10 11	2:FE=235549
028	110507r	SAMPLE	198903-002	131284	Soil	05-NOV-2007 10:01	1.0	45.05			5000		5:FE=451360
029	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 10:03	1.0	47.17	2		5000		4:FE=365607
030	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 10:06	1.0	46.30	1		5000		2:FE=268314
31	110507r	?SAMPLE	198709-001			05-NOV-2007 10:08	1.0						

tds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

nalyst: _____ Date: 11/5/14

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 10:12	1.0	46.73		5000	3:MG=320813	
033	110507r	X	RINSE			05-NOV-2007 10:14	1.0					
034	110507r	CCV				05-NOV-2007 10:17	1.0	1.0		5000	9	
035	110507r	X	FLUSH			05-NOV-2007 10:21	1.0					
036	110507r	CCB				05-NOV-2007 10:24	1.0	1.0		5000		
037	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 10:28	1.0	49.50	1	5000	6:FE=649648	
038	110507r	SAMPLE	198841-001	131284	Miscel	05-NOV-2007 10:30	1.0	48.08		5000	1:FE=212461	
039	110507r	SAMPLE	198841-002	131284	Miscel	05-NOV-2007 10:33	1.0	45.45		5000	1:FE=226239	
040	110507r	SAMPLE	198841-003	131284	Miscel	05-NOV-2007 10:36	1.0	56.82		5000	3:FE=167173	
041	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 10:39	1.0	49.02		5000	3:FE=661648	
042	110507r	SAMPLE	198845-002	131284	Miscel	05-NOV-2007 10:43	1.0	45.45		5000	3:FE=452399	
043	110507r	SAMPLE	198852-001	131284	Miscel	05-NOV-2007 10:47	1.0	48.08		5000	2:FE=176098	
044	110507r	SAMPLE	198850-001	131284	Miscel	05-NOV-2007 10:50	1.0	71.43		5000	1:FE=202532	
045	110507r	SAMPLE	198850-002	131284	Miscel	05-NOV-2007 10:54	1.0	50.0		5000	2:FE=637998	
046	110507r	SAMPLE	198849-001	131284	Miscel	05-NOV-2007 10:56	1.0	45.05		5000	2:FE=1793655	
047	110507r	X	RINSE			05-NOV-2007 10:59	1.0					
048	110507r	CCV				05-NOV-2007 11:03	1.0	1.0		5000	9	
049	110507r	X	FLUSH			05-NOV-2007 11:06	1.0					
050	110507r	CCB				05-NOV-2007 11:10	1.0	1.0		5000		
051	110507r	SAMPLE	198848-001	131284	Miscel	05-NOV-2007 11:14	1.0	45.05		5000	2:FE=502731	
052	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:17	1.0	72.46	1	5000	3:FE=559436	
053	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:19	1.0	48.54	1	5000	4:CA=380474	
054	110507r	SAMPLE	198844-001	131284	Miscel	05-NOV-2007 11:21	1.0	100.0		5000		
055	110507r	SAMPLE	198844-002	131284	Miscel	05-NOV-2007 11:24	1.0	90.91		5000		
056	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 11:28	1.0	47.17		5000	3:FE=308922	
057	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 11:30	1.0	46.30	1	5000	2:FE=234718	
058	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 11:32	1.0	46.73		5000	3:MG=316139	
059	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 11:34	1.0	49.50		5000	6:FE=645974	
060	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 11:36	1.0	49.02		5000	3:FE=665009	
061	110507r	X	RINSE			05-NOV-2007 11:40	1.0					
062	110507r	CCV				05-NOV-2007 11:43	1.0	1.0		5000	9	

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	110507r	X	FLUSH			05-NOV-2007 11:47	1.0				
064	110507r	CCB				05-NOV-2007 11:50	1.0	1.0	5000		
065	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:54	1.0	72.46	5000		3:FE=592381
066	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:56	1.0	48.54	5000		4:CA=402689
067	110507r	ICSAB				05-NOV-2007 11:58	1.0	1.0	5000	8	5:AL=515891
068	110507r	X	RINSE			05-NOV-2007 12:02	1.0				
069	110507r	CCV				05-NOV-2007 12:05	1.0	1.0	5000	9	
070	110507r	X	FLUSH			05-NOV-2007 12:09	1.0				
071	110507r	CCB				05-NOV-2007 12:12	1.0	1.0	5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

Curtis & Tompkins Laboratories Sample Preparation Summary 02-NOV-2007 20:11

Batch Number : 131284
Date Extracted: 02-NOV-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198841-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198841-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198841-003			Hirst & Chanler	Miscell.	.88	g	50	56.818182	1					PB		
198844-001			Hirst & Chanler	Miscell.	.5	g	50	100.000000	1					PB		
198844-002			Hirst & Chanler	Miscell.	.55	g	50	90.909091	1					PB		
198845-001			Hirst & Chanler	Miscell.	1.02	g	50	49.019608	1					PB		
198845-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198847-001			Hirst & Chanler	Miscell.	.69	g	50	72.463768	1					PB		
198847-002			Hirst & Chanler	Miscell.	1.03	g	50	48.543689	1					PB		
198848-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198849-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198850-001			Hirst & Chanler	Miscell.	.7	g	50	71.428571	1					PB		
198850-002			Hirst & Chanler	Miscell.	1	g	50	50.000000	1					PB		
198852-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198880-001			Mactec, Inc.	Soil	1.07	g	50	46.728972	1					T26/ICP		
198880-002			Mactec, Inc.	Soil	1.01	g	50	49.504950	1					T26/ICP		
198903-001			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-002			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-003			Mactec, Inc.	Soil	1.06	g	50	47.169811	1					T26/ICP		
198903-006			Mactec, Inc.	Soil	1.08	g	50	46.296296	1					T26/ICP		
QC413589	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC413590	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413591	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413592	MS	of 198903-001		Soil	1.06	g	50	47.169811	1		.5	.5		ICAP		
QC413593	MSD	of 198903-001		Soil	1.04	g	50	48.076923	1		.5	.5		ICAP		
QC413594	SER	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		
QC413595	PDS	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		

Prep Chemist: Michael C Brock 11/2/07 Reviewed By: [signature] Date: 11/5/07

Relinquished By: Michael C Brock 11/2/07 Received By: [signature] Date: 11/5/07

SDG TH

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET04
alnum : 47447371001
nits : ug/L

Date : 06-NOV-2007 16:11
X Axis : R

Reviewer : ---
Type : SOIL

evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	131361	47447371001	STD03REP1	06-NOV-2007 16:11	S7606 (200X)
L2	131361	47447371002	STD04REP1	06-NOV-2007 16:13	S7606 (50X)
L3	131361	47447371003	STD05REP1	06-NOV-2007 16:15	S7606 (20X)
L4	131361	47447371004	STD06REP1	06-NOV-2007 16:17	S7606 (10X)
L5	131361	47447371006	STD02REP1	06-NOV-2007 16:24	S7606 (500X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	3276.0	3228.0	3088.0	2906.2	7000.0	LINR	-0.1671	3.46E-4		3899.6	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.500	-20	2.000	3	5.000	4	10.00	-1	0.200	59

ment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

e 1 of 1

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	ICAL	STD03REP1				06-NOV-2007 16:11	1.0	1.0									
131361	ICAL	STD04REP1				06-NOV-2007 16:13	1.0	1.0									
131361	ICAL	STD05REP1				06-NOV-2007 16:15	1.0	1.0									
131361	ICAL	STD06REP1				06-NOV-2007 16:17	1.0	1.0									
131361	ICALBLK	STD01REP1				06-NOV-2007 16:20	1.0	1.0									
131361	ICAL	STD02REP1				06-NOV-2007 16:24	1.0	1.0									
131361	ICV					06-NOV-2007 16:27	1.0	1.0	2	5.000	47447371001	5.100		ug/L	102		
131361	ICB					06-NOV-2007 16:29	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	BLANK	QC413907		131361	Soil	06-NOV-2007 16:31	1.0	100.0			47447371001	ND	0.020	mg/Kg			u
131361	BS	QC413908		131361	Soil	06-NOV-2007 16:34	1.0	100.0		0.5000	47447371001	0.5160	0.020	mg/Kg	103		u
131361	BSD	QC413909		131361	Soil	06-NOV-2007 16:37	1.0	100.0		0.5000	47447371001	0.5210	0.020	mg/Kg	104	1	u
131361	MSS	198956-001		131361	Soil	06-NOV-2007 16:39	1.0	86.21			47447371001	0.044	0.020	mg/Kg			u
131361	SER	QC413910	198956-001	131361	Soil	06-NOV-2007 16:41	5.0	86.21			47447371001	ND	0.086	mg/Kg		--	u
131361	MS	QC413911	198956-001	131361	Soil	06-NOV-2007 16:43	1.0	86.21		0.4310	47447371001	0.5078	0.020	mg/Kg	108		u
131361	MSD	QC413912	198956-001	131361	Soil	06-NOV-2007 16:45	1.0	106.4		0.5319	47447371001	0.6117	0.021	mg/Kg	107	1	u
131361	SAMPLE	198880-001		131361	Soil	06-NOV-2007 16:47	1.0	86.21			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 16:50	1.0	84.75			47447371001	14 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198947-001		131361	Soil	06-NOV-2007 16:52	1.0	84.75			47447371001	0.23	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 16:54	1.0	1.0	3	2.500	47447371001	2.490		ug/L	100		
131361	CCB					06-NOV-2007 16:57	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-003		131361	Soil	06-NOV-2007 16:59	1.0	98.04			47447371001	0.043	0.020	mg/Kg			u
131361	SAMPLE	198956-004		131361	Soil	06-NOV-2007 17:01	1.0	87.72			47447371001	0.078	0.020	mg/Kg			u
131361	SAMPLE	198956-005		131361	Soil	06-NOV-2007 17:03	1.0	102.0			47447371001	0.075	0.020	mg/Kg			u
131361	SAMPLE	198956-006		131361	Soil	06-NOV-2007 17:06	1.0	94.34			47447371001	0.073	0.020	mg/Kg			u
131361	SAMPLE	198956-007		131361	Soil	06-NOV-2007 17:08	1.0	73.53			47447371001	0.076	0.020	mg/Kg			u
131361	SAMPLE	198956-008		131361	Soil	06-NOV-2007 17:10	1.0	94.34			47447371001	0.0044 J	0.020	mg/Kg			u
131361	SAMPLE	198956-009		131361	Soil	06-NOV-2007 17:12	1.0	90.91			47447371001	0.0097 J	0.020	mg/Kg			u
131361	SAMPLE	198956-010		131361	Soil	06-NOV-2007 17:14	1.0	102.0			47447371001	0.014 J	0.020	mg/Kg			u
131361	SAMPLE	198956-012		131361	Soil	06-NOV-2007 17:17	1.0	102.0			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-013		131361	Soil	06-NOV-2007 17:19	1.0	78.13			47447371001	0.011 J	0.020	mg/Kg			u
131361	CCV					06-NOV-2007 17:21	1.0	1.0	4	5.000	47447371001	5.010		ug/L	100		
131361	CCB					06-NOV-2007 17:23	1.0	1.0			47447371001	ND	0.20	ug/L			
131361	SAMPLE	198956-014		131361	Soil	06-NOV-2007 17:26	1.0	89.29			47447371001	ND	0.020	mg/Kg			u
131361	SAMPLE	198956-015		131361	Soil	06-NOV-2007 17:28	1.0	106.4			47447371001	0.015 J	0.021	mg/Kg			u
131361	SAMPLE	198957-010		131361	Soil	06-NOV-2007 17:30	1.0	84.75			47447371001	0.099	0.020	mg/Kg			u
131361	SAMPLE	198957-011		131361	Soil	06-NOV-2007 17:32	1.0	96.15			47447371001	0.12	0.020	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 17:35	1.0	89.29			47447371001	21 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 17:37	1.0	74.63			47447371001	47 >LR	0.020	mg/Kg			>LR cal
131361	SAMPLE	198880-002		131361	Soil	06-NOV-2007 18:12	20.0	84.75			47447371001	11	0.34	mg/Kg			u
131361	SAMPLE	198957-012		131361	Soil	06-NOV-2007 18:23	50.0	89.29			47447371001	17	0.89	mg/Kg			u
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:31	100.0	74.63			47447371001	800 >LR	1.5	mg/Kg			>LR cal
131361	CCV					06-NOV-2007 18:33	1.0	1.0	5	7.500	47447371001	7.160		ug/L	95		
131361	CCB					06-NOV-2007 18:36	1.0	1.0			47447371001	ND	0.20	ug/L			

Stds used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 11/6/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 47447371 Instrument: MET04 HydraAA HG Analyzer Begun: 06-NOV-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131361	SAMPLE	198965-001		131361	Miscel	06-NOV-2007 18:42	2000	74.63			47447371001	590	30	mg/Kg			u
131361	CCV					06-NOV-2007 18:45	1.0	1.0	5	7.500	47447371001	7.420		ug/L	99		
131361	CCB					06-NOV-2007 18:47	1.0	1.0			47447371001	ND	0.20	ug/L			

s used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
ds used: >UR=overrange b=noncompliant calc=check quantitation u=use

yst: _____ Date: 11/6/07

Curtis & Tompkins Laboratories Sample Preparation Summary 06-NOV-2007 18:53

Batch Number : 131361
Date Extracted: 06-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7606
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198880-001			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		
198880-002			Mactec, Inc.	Soil	.59	g	50	84.745763	1					T26/HG		
198947-001			TRC Solutions	Soil	.59	g	50	84.745763	1					T26/HG		
198956-001			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		MSS
198956-003			Mactec, Inc.	Soil	.51	g	50	98.039216	1					T26/HG		
198956-004			Mactec, Inc.	Soil	.57	g	50	87.719298	1					T26/HG		
198956-005			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-006			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
198956-007			Mactec, Inc.	Soil	.68	g	50	73.529412	1					T26/HG		
198956-008			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
198956-009			Mactec, Inc.	Soil	.55	g	50	90.909091	1					T26/HG		
198956-010			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-012			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
198956-013			Mactec, Inc.	Soil	.64	g	50	78.125000	1					T26/HG		
198956-014			Mactec, Inc.	Soil	.56	g	50	89.285714	1					T26/HG		
198956-015			Mactec, Inc.	Soil	.47	g	50	106.382979	1					T26/HG		
198957-010			Northgate Environmental Manage	Soil	.59	g	50	84.745763	1					T26/HG		
198957-011			Northgate Environmental Manage	Soil	.52	g	50	96.153846	1					T26/HG		
198957-012			Northgate Environmental Manage	Soil	.56	g	50	89.285714	1					T26/HG		
198965-001			ConocoPhillips Company	Miscell.	.67	g	50	74.626866	1					T26/HG		
QC413907	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC413908	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC413909	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC413910	SER	of 198956-001		Soil	.58	g	50	86.206897	1					HG		
QC413911	MS	of 198956-001		Soil	.58	g	50	86.206897	1		2.5			HG		
QC413912	MSD	of 198956-001		Soil	.47	g	50	106.382979	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/6/07

Relinquished By: _____ Received By: _____ Date: 11/6/07

198956

MACTEC

CHAIN OF CUSTODY RECORD

3823

198903

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Excavation 3
JOB NO.: 4088
SAMPLERS (SIGNATURE): Scott Bal
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 11/1/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) including 1,2-DCA; TPHg (8015M); TPHd+TPHmo-w-silica gel (8015M); CAMs (6010-6020); Title 22 Metals	FOR LAB USE ONLY
~~1305~~	X		SO	1065EX359[4.0]	~~8~~15 S~~8~~W-4.0 SW	sample + MS/MSD	14	X X X X X	
~~1335~~	X		SO	1065EX360[4.0]	~~11~~11515W-4.0 SW		7	X X X X X	
~~1330~~	X		SO	DUP110107	11515W-4.0 SW		7	X X X X X	
~~[illegible]~~			~~SO~~	~~1065EX361[4.5]~~	~~13535W-4.5 SW~~		~~7~~	~~X X X X X~~	
1420			W	1065EX360RB361	EB		12	X X X X X	
NA			W	TB 110107	TB		2	X X	
1440	X		SO	1065EX361[4.5]	13535W-4.5 SW		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
Scott Bal	11/1/07 1600	[illegible]	11/1/07 1600			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

F1008 (05/00)

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: x Client Request By: M.Heassler Date/Time: 11/6/07 20:03 Initials: SES
Login Review Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
198903-007		1065EX362[5.5]	Soil	Add	ETVH, E8260, TEHM	11/13
					8270-SIM, Moisture	
					T26/ICP, T26/HG	

5555

MACTEC

CHAIN OF CUSTODY RECORD

198903

3323

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION
NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Excavation 3
JOB NO.: 4088
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRC
SAMPLING DATE: 11/1/07

	TIME	GRAB	COMP	MATRIX*	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES (including preservation) VOC (8260B) TPHg (8015M) TPHd-TPHmo-silica gel (8015M) PAHs (8270-SIM) Title 22 Metals (6010/7000/7470)	FOR LAB USE ONLY
1	1305	X		SO	1065EX359[4.0]	15 8S 5W-4.0 SW	Sample + MS/MSD	14	X X X X X X	
2	1330	X		SO	1065EX360[4.0]	11S 15W- 4.0 SW		7	X X X X X X	
3	1335	X		SO	DUP110107	11S 15W- 4.0 SW		7	X X X X X X	
	[illegible]				[illegible]	[illegible]		7	X X X X X X	
4	1420			W	1065EX360RB3rd	EB		12	X X X X X X	
5	NA			W	TB 110107	TB		2	X X	
6	1440	X		SO	1065EX361[4.5]	13 5S 5W -4.5 SW		7	X X X X X X	
	1505			SO	1065EX362[5.5]	11S-20W			X X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	11/1/07 1600		11/1 1600			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

60009

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 307435352001
Units : ng

Name : GC04 MBTXE/SURR 302
Date : 29-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	302_009	307435352009	BTXE_1	29-OCT-2007 19:38	S7260 (1000X), S7356 (5000X)
L2	302_010	307435352010	MBTXE_2	29-OCT-2007 20:15	S7258 (1250X), S7356 (5000X)
L3	302_011	307435352011	MBTXE_3	29-OCT-2007 20:53	S7258 (500X), S7356 (5000X)
L4	302_012	307435352012	MBTXE_4	29-OCT-2007 21:31	S7258 (125X), S7356 (5000X)
L5	302_013	307435352013	MBTXE_5	29-OCT-2007 22:08	S7257 (1000X), S7356 (5000X)
L6	302_014	307435352014	MBTXE_6	29-OCT-2007 22:46	S7257 (500X), S7356 (5000X)
L7	302_015	307435352015	MBTXE_7	29-OCT-2007 23:24	S7257 (250X), S7356 (5000X)
L8	302_016	307435352016	MTBE_7	30-OCT-2007 00:01	S6302 (500X), S7356 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3913.7	4177.7	3904.1	3661.5	3896.1	3977.3	3937.1	3852.6	AVRG		2.55E-4		3915.0	4	0.995	20	
Bromofluorobenzene (FID)	A	2412.2	2540.8	2428.9	2291.4	2510.4	2558.1	2584.1	2348.4	AVRG		4.07E-4		2459.3	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	7	450.0	0	450.0	-6	450.0	0	450.0	2	450.0	1	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-2	450.0	3	450.0	-1	450.0	-7	450.0	2	450.0	4	450.0	5	450.0	-5

MJM 10/30/07 : ICV: MTBE Failed low Ch. C. Report analyte from Ch. B. Ch. C to be used as confirm only.

Analyst: MJM Date: 10/30/07 Reviewer: LH Date: 10/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

307435352001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 327389838001
Units : ng

Name : MBTXE TFT/BFB 270
Date : 27-SEP-2007 17:55
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	270_011	327389838011	BTXE_1	27-SEP-2007 17:55	S7260 (1000X), S7273 (5000X)
L2	270_012	327389838012	MBTXE_2	27-SEP-2007 18:32	S7258 (1250X), S7273 (5000X)
L3	270_013	327389838013	MBTXE_3	27-SEP-2007 19:09	S7258 (500X), S7273 (5000X)
L4	270_014	327389838014	MBTXE_4	27-SEP-2007 19:46	S7258 (125X), S7273 (5000X)
L5	270_015	327389838015	MBTXE_5	27-SEP-2007 20:23	S7257 (1000X), S7273 (5000X)
L6	270_016	327389838016	MBTXE_6	27-SEP-2007 21:00	S7257 (500X), S7273 (5000X)
L7	270_017	327389838017	MBTXE_7	27-SEP-2007 21:38	S7257 (250X), S7273 (5000X)
L8	270_018	327389838018	MTBE_7	27-SEP-2007 22:15	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2574.8	2543.4	2652.4	2657.1	2526.3	2598.4	2628.9	2500.5	AVRG		3.87E-4		2585.2	2	0.995	20	
Bromofluorobenzene (FID)	A	2167.6	2036.9	2108.7	2121.6	2053.1	2054.6	2101.1	2030.0	AVRG		4.80E-4		2084.2	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-2	450.0	3	450.0	3	450.0	-2	450.0	1	450.0	2	450.0	-3
Bromofluorobenzene (FID)	A	450.0	4	450.0	-2	450.0	1	450.0	2	450.0	-1	450.0	-1	450.0	1	450.0	-3

CP 09/28/07 : Can not report MTBE from channel C. Channel C will be confirm only.

Analyst: CP Date: 09/28/07 Reviewer: LH Date: 09/28/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCVOA Soil: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	3	500.0	7	1000	6	5000	-13

Analyst: MCH Date: 01/29/07 Reviewer: CW Date: 02/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

117061448001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183006
Units : mg/L

Name : dsl
Date : 10-OCT-2007 12:00
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_003	227408183003	DSL_10	10-OCT-2007 12:00	S6612
L2	283_004	227408183004	DSL_100	10-OCT-2007 12:29	S6613
L3	283_005	227408183005	DSL_500	10-OCT-2007 12:58	S6614
L4	283_006	227408183006	DSL_1000	10-OCT-2007 13:27	S6615
L5	283_007	227408183007	DSL_5000	10-OCT-2007 13:56	S6611
L6	283_008	227408183008	DSL_7500	10-OCT-2007 14:25	S6616

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	57537	63636	64700	63713	59922	65554	AVRG		1.60E-5		62510	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	B	10.00	-8	100.0	2	500.0	4	1000	2	5000	-4	7500	5

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183005
Units : mg/L

Name : Motor Oil
Date : 10-OCT-2007 16:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_012	227408183012	MO_50	10-OCT-2007 16:20	S6848
L2	283_013	227408183013	MO_250	10-OCT-2007 16:48	S6849
L3	283_014	227408183014	MO_500	10-OCT-2007 17:16	S6850
L4	283_015	227408183015	MO_1000	10-OCT-2007 17:44	S6851
L5	283_040	227408183040	MO_5000	11-OCT-2007 10:35	S6846

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	39282	41294	41437	39011	31093	AVRG		2.60E-5		38423	11	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	B	50.00	2	250.0	7	500.0	8	1000	2	5000	-19

Analyst: ATL Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183002
Units : mg/L

Name : HEX
Date : 10-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_019	227408183019	HEX_5	10-OCT-2007 19:38	S7036
L2	283_020	227408183020	HEX_10	10-OCT-2007 20:06	S7037
L3	283_021	227408183021	HEX_25	10-OCT-2007 20:34	S7038
L4	283_022	227408183022	HEX_50	10-OCT-2007 21:03	S7039
L5	283_023	227408183023	HEX_100	10-OCT-2007 21:31	S7040
L6	283_024	227408183024	HEX_200	10-OCT-2007 22:00	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	62663	62290	59838	61265	60611	52506	AVRG		1.67E-5		59862	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	5	10.00	4	25.00	0	50.00	2	100.0	1	200.0	-12

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763001
Units : mg/L

Name : DSL
Date : 18-OCT-2007 02:40
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b017	167416763017	DSL_10	18-OCT-2007 02:40	S6612
L2	289b018	167416763018	DSL_100	18-OCT-2007 03:07	S6613
L3	289b019	167416763019	DSL_500	18-OCT-2007 03:35	S6614
L4	289b020	167416763020	DSL_1000	18-OCT-2007 04:03	S6615
L5	289b021	167416763021	DSL_5000	18-OCT-2007 04:31	S6611
L6	289b022	167416763022	DSL_7500	18-OCT-2007 04:58	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	23294	26355	25904	26080	28152	26566	AVRG		3.84E-5		26059	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-11	100.0	1	500.0	-1	1000	0	5000	8	7500	2

Analyst: ATL Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 GCSV Soil
EPA 8015B

Inst : GC15B
Calnum : 167416763001

Name : DSL
Cal Date : 18-OCT-2007

ICV 167416763024 (289b024 18-OCT-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	26059	27062	500.0	519.3	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763002
Units : mg/L

Name : mo 5pt.
Date : 18-OCT-2007 07:18
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b027	167416763027	MO_50	18-OCT-2007 07:18	S6848
L2	289b028	167416763028	MO_250	18-OCT-2007 07:46	S6849
L3	289b029	167416763029	MO_500	18-OCT-2007 08:14	S6850
L4	289b030	167416763030	MO_1000	18-OCT-2007 08:42	S6851
L5	289b031	167416763031	MO_5000	18-OCT-2007 09:10	S6846

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	17688	20401	19302	18899	14749	AVRG		5.49E-5		18208	12	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	12	500.0	6	1000	4	5000	-19

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763003
Units : mg/L

Name : hex
Date : 18-OCT-2007 11:02
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b035	167416763035	HEX_5	18-OCT-2007 11:02	S7036
L2	289b036	167416763036	HEX_10	18-OCT-2007 11:30	S7037
L3	289b037	167416763037	HEX_25	18-OCT-2007 11:57	S7038
L4	289b038	167416763038	HEX_50	18-OCT-2007 12:25	S7039
L5	289b039	167416763039	HEX_100	18-OCT-2007 12:53	S7040
L6	289b040	167416763040	HEX_200	18-OCT-2007 13:21	S7041

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	29546	29340	28793	29036	28799	28229	AVRG		3.45E-5		28957	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	2	10.00	1	25.00	-1	50.00	0	100.0	-1	200.0	-3

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

167416763003

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177377811001
Units : mg/L

Name : hex 5pt.
Date : 19-SEP-2007 19:51
X Axis : R

Level	File	Segnum	Sample ID	Analyzed	Stds
L1	262a024	177377811024	HEX_5	19-SEP-2007 19:51	S7036
L2	262a025	177377811025	HEX_10	19-SEP-2007 20:18	S7037
L3	262a026	177377811026	HEX_25	19-SEP-2007 20:46	S7038
L4	262a027	177377811027	HEX_50	19-SEP-2007 21:13	S7039
L5	262a028	177377811028	HEX_100	19-SEP-2007 21:41	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	90416	88456	87718	89582	89186	AVRG		1.12E-5		89072	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	-2	50.00	1	100.0	0

Analyst: ZA Date: 09/19/07 Reviewer: LH Date: 09/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177441350001
Units : mg/L

Name : dsl 6pt.
Date : 02-NOV-2007 19:16
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	306a008	177441350008	DSL_10	02-NOV-2007 19:16	S6612
L2	306a009	177441350009	DSL_100	02-NOV-2007 19:44	S6613
L3	306a010	177441350010	DSL_500	02-NOV-2007 20:11	S6614
L4	306a011	177441350011	DSL_1000	02-NOV-2007 20:39	S6615
L5	306a012	177441350012	DSL_5000	02-NOV-2007 21:06	S6611
L6	306a013	177441350013	DSL_7500	02-NOV-2007 21:34	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	68436	66248	61702	61110	73711	65026	AVRG		1.51E-5		66039	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	4	100.0	0	500.0	-7	1000	-7	5000	12	7500	-2

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 177441350001

Name : dsl 6pt.
Cal Date : 02-NOV-2007

ICV 177441350015 (306a015 02-NOV-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	66039	66510	500.0	503.6	mg/L	1	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC26B
Calnum : 877367938003
Units : mg/L

Name : hex 26b
Date : 13-SEP-2007 02:04
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	255b026	877367938026	HEX_5	13-SEP-2007 02:04	S7036
L2	255b027	877367938027	HEX_10	13-SEP-2007 02:29	S7037
L3	255b028	877367938028	HEX_25	13-SEP-2007 02:54	S7038
L4	255b029	877367938029	HEX_50	13-SEP-2007 03:20	S7039
L5	255b030	877367938030	HEX_100	13-SEP-2007 03:45	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	27913	26585	26497	26991	27842	AVRG		3.68E-5		27166	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	3	10.00	-2	25.00	-2	50.00	-1	100.0	2

Analyst: CP Date: 09/13/07 Reviewer: LH Date: 09/13/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 GCSV Soil: EPA 8015B

Inst : GC26B
Calnum : 877378530001
Units : mg/L

Name : dsl 6pt.
Date : 19-SEP-2007 21:16
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	259b023	877378530023	DSL_10	19-SEP-2007 21:16	S6612
L2	259b024	877378530024	DSL_100	19-SEP-2007 21:41	S6613
L3	259b025	877378530025	DSL_500	19-SEP-2007 22:07	S6614
L4	259b026	877378530026	DSL_1000	19-SEP-2007 22:32	S6615
L5	259b027	877378530027	DSL_5000	19-SEP-2007 22:58	S6611
L6	259b028	877378530028	DSL_7500	19-SEP-2007 23:23	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	24523	31553	31259	31201	30946	28756	AVRG		3.37E-5		29706	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-17	100.0	6	500.0	5	1000	5	5000	4	7500	-3

Analyst: ZA Date: 09/24/07 Reviewer: LH Date: 09/25/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 GCSV Soil
EPA 8015B

Inst : GC26B
Calnum : 877378530001

Name : dsl 6pt.
Cal Date : 19-SEP-2007

ICV 877378530030 (259b030 20-SEP-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	29706	33332	500.0	561.0	mg/L	12	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_1000 IDF : 1.0
Seqnum : 117439689129 File : 305a129 Time : 06-NOV-2007 06:50
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	55829	1000	958.4	mg/L	-4	15	
Hexacosane	117245263001	19-JUN-2007	69898	63802	50.00	45.64	mg/L	-9	15	

Analyst: ATL Date: 11/06/07 Reviewer: JDG Date: 11/07/07

117439689129

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117439689130 File : 305a130 Time : 06-NOV-2007 07:18
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	38040	500.0	458.8	mg/L	-8	15	
Hexacosane	117245263001	19-JUN-2007	69898	64319	50.00	46.01	mg/L	-8	15	

Analyst: ATL Date: 11/06/07 Reviewer: JDG Date: 11/07/07

117439689130

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_250 IDF : 1.0
Seqnum : 117439689144 File : 305a144 Time : 06-NOV-2007 14:01
Standards: S6807

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	63711	250.0	273.4	mg/L	9	15	
Hexacosane	117245263001	19-JUN-2007	69898	68212	50.00	48.79	mg/L	-2	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117439689144

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117439689145 File : 305a145 Time : 06-NOV-2007 14:33
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	40465	500.0	488.1	mg/L	-2	15	
Hexacosane	117245263001	19-JUN-2007	69898	68654	50.00	49.11	mg/L	-2	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117439689145

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_1000 IDF : 1.0
Seqnum : 117447306038 File : 310a038 Time : 07-NOV-2007 08:25
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	58625	1000	1006	mg/L	1	15	
Hexacosane	117245263001	19-JUN-2007	69898	69086	50.00	49.42	mg/L	-1	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117447306038

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117447306039 File : 310a039 Time : 07-NOV-2007 08:53
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	38978	500.0	470.1	mg/L	-6	15	
Hexacosane	117245263001	19-JUN-2007	69898	67404	50.00	48.22	mg/L	-4	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

117447306039

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_500 IDF : 1.0
Seqnum : 117447306055 File : 310a055 Time : 07-NOV-2007 20:21
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	60031	500.0	515.3	mg/L	3	15	
Hexacosane	117245263001	19-JUN-2007	69898	68888	50.00	49.28	mg/L	-1	15	

Analyst: ATL Date: 11/08/07 Reviewer: JDG Date: 11/08/07

117447306055

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 117447306056 File : 310a056 Time : 07-NOV-2007 20:49
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	38976	500.0	470.1	mg/L	-6	15	
Hexacosane	117245263001	19-JUN-2007	69898	67487	50.00	48.28	mg/L	-3	15	

Analyst: ATL Date: 11/08/07 Reviewer: JDG Date: 11/08/07

117447306056

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
Seqnum : 227444644004 File : 308_004 Time : 04-NOV-2007 20:09
Standards: S7541

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	57371	500.0	458.9	mg/L	-8	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	59372	50.00	49.59	mg/L	-1	15	

Analyst: ZA Date: 11/05/07 Reviewer: JDG Date: 11/05/07

227444644004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227444644005 File : 308_005 Time : 04-NOV-2007 20:37
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	39137	500.0	509.3	mg/L	2	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	68289	50.00	57.04	mg/L	14	15	

Analyst: ZA Date: 11/05/07 Reviewer: JDG Date: 11/05/07

227444644005

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
Seqnum : 227444644020 File : 308_020 Time : 05-NOV-2007 10:55
Standards: S6807

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	59260	250.0	237.0	mg/L	-5	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	63100	50.00	52.70	mg/L	5	15	

Analyst: JDG Date: 11/05/07 Reviewer: LH Date: 11/05/07

227444644020

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227444644021 File : 308_021 Time : 05-NOV-2007 11:23
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	35883	500.0	466.9	mg/L	-7	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	62637	50.00	52.32	mg/L	5	15	

Analyst: JDG Date: 11/05/07 Reviewer: LH Date: 11/05/07

227444644021

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 227444644032 File : 308_032 Time : 06-NOV-2007 01:04
Standards: S6809

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	55708	1000	891.2	mg/L	-11	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	59901	50.00	50.03	mg/L	0	15	

Analyst: ZA Date: 11/06/07 Reviewer: ATL Date: 11/06/07

227444644032

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
Seqnum : 227449723017 File : 312_017 Time : 08-NOV-2007 15:27
Standards: S7540

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	58190	250.0	232.7	mg/L	-7	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	61818	50.00	51.63	mg/L	3	15	

Analyst: JDG Date: 11/09/07 Reviewer: LH Date: 11/09/07

227449723017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227449723018 File : 312_018 Time : 08-NOV-2007 15:56
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	36964	500.0	481.0	mg/L	-4	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	64793	50.00	54.12	mg/L	8	15	

Analyst: JDG Date: 11/09/07 Reviewer: LH Date: 11/09/07

227449723018

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 227449723031 File : 312_031 Time : 08-NOV-2007 22:15
Standards: S6809

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	57192	1000	914.9	mg/L	-9	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	58609	50.00	48.95	mg/L	-2	15	

Analyst: ZA Date: 11/09/07 Reviewer: JDG Date: 11/09/07

227449723031

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227449723032 File : 312_032 Time : 09-NOV-2007 01:01
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	35084	500.0	456.5	mg/L	-9	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	60872	50.00	50.84	mg/L	2	15	

Analyst: ZA Date: 11/09/07 Reviewer: JDG Date: 11/09/07

227449723032

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 167444633051 File : 308b051 Time : 06-NOV-2007 05:22
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	18360	500.0	504.2	mg/L	1	15	
Hexacosane	167416763003	18-OCT-2007	28957	29487	50.00	50.92	mg/L	2	15	

Analyst: ATL Date: 11/06/07 Reviewer: JDG Date: 11/06/07

167444633051

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_250 IDF : 1.0
Seqnum : 167444633052 File : 308b052 Time : 06-NOV-2007 05:50
Standards: S6807

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	28718	250.0	275.5	mg/L	10	15	
Hexacosane	167416763003	18-OCT-2007	28957	29027	50.00	50.12	mg/L	0	15	

Analyst: ATL Date: 11/06/07 Reviewer: JDG Date: 11/06/07

167444633052

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 167444633068 File : 308b068 Time : 06-NOV-2007 13:19
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17966	500.0	493.4	mg/L	-1	15	
Hexacosane	167416763003	18-OCT-2007	28957	28774	50.00	49.68	mg/L	-1	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

167444633068

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 167444633069 File : 308b069 Time : 06-NOV-2007 13:47
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	25939	1000	995.4	mg/L	0	15	
Hexacosane	167416763003	18-OCT-2007	28957	28269	50.00	48.81	mg/L	-2	15	

Analyst: JDG Date: 11/07/07 Reviewer: LH Date: 11/07/07

167444633069

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 177448260003 File : 311a003 Time : 07-NOV-2007 07:55
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	62721	500.0	474.9	mg/L	-5	15	
Hexacosane	177377811001	19-SEP-2007	89072	82477	50.00	46.30	mg/L	-7	15	

ATL: 11/08/07 JDG: 11/08/07 LH: 11/09/07

177448260003

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 177448260018 File : 311a018 Time : 07-NOV-2007 19:33
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	59826	1000	905.9	mg/L	-9	15	
Hexacosane	177377811001	19-SEP-2007	89072	82175	50.00	46.13	mg/L	-8	15	

Analyst: ATL Date: 11/08/07 Reviewer: JDG Date: 11/08/07

177448260018

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC26B Run Name : DSL_500 IDF : 1.0
Seqnum : 877444765006 File : 308b006 Time : 04-NOV-2007 21:10
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	877378530001	19-SEP-2007	29706	28981	500.0	487.8	mg/L	-2	15	
Hexacosane	877367938003	13-SEP-2007	27166	25004	50.00	46.02	mg/L	-8	15	

ZA: 11/05/07 * JDG: 11/05/07 LH: 11/05/07

877444765006

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 GCSV Soil
EPA 8015B

Inst : GC26B Run Name : DSL_250 IDF : 1.0
Seqnum : 877444765021 File : 308b021 Time : 05-NOV-2007 09:19
Standards: S6807

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	877378530001	19-SEP-2007	29706	29710	250.0	250.0	mg/L	0	15	
Hexacosane	877367938003	13-SEP-2007	27166	24655	50.00	45.38	mg/L	-9	15	

CP: 11/05/07 * JDG: 11/05/07 LH: 11/05/07

877444765021

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117037956

Instrument : GC11A
Method : EPA 8015B

Begun : 01/26/07 08:36
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	026a001	X	IB			01/26/07 08:36	1.0	
002	026a002	XCCV	DSL_500			01/26/07 09:04	1.0	1
003	026a003	XCCV	MO_500			01/26/07 09:32	1.0	2
006	026a006	X	HEX_5			01/26/07 16:57	1.0	
007	026a007	X	IB			01/26/07 17:25	1.0	
008	026a008	CMARKER	C8-C50			01/26/07 17:55	1.0	3
009	026a009	X	CALIB			01/26/07 18:22	1.0	
010	026a010	XICAL	DSL_10			01/26/07 18:50	1.0	4
011	026a011	XICAL	DSL_100			01/26/07 19:18	1.0	5
012	026a012	XICAL	DSL_500			01/26/07 19:46	1.0	6
013	026a013	XICAL	DSL_1000			01/26/07 20:14	1.0	7
014	026a014	XICAL	DSL_5000			01/26/07 20:42	1.0	8
015	026a015	XICAL	DSL_7500			01/26/07 21:10	1.0	9
016	026a016	X	IB			01/26/07 21:38	1.0	
017	026a017	XICV	DSL_500			01/26/07 22:06	10.0	10
018	026a018	XICV	DSL_500			01/26/07 22:34	10.0	10
019	026a019	IB	CALIB			01/26/07 23:02	1.0	
020	026a020	ICAL	MO_50			01/26/07 23:30	1.0	11
021	026a021	ICAL	MO_250			01/26/07 23:58	1.0	12
022	026a022	ICAL	MO_500			01/27/07 00:26	1.0	13
023	026a023	ICAL	MO_1000			01/27/07 00:54	1.0	14
024	026a024	ICAL	MO_5000			01/27/07 01:22	1.0	15
025	026a025	IB	CALIB			01/27/07 01:50	1.0	
026	026a026	ICAL	HEX_5			01/27/07 02:18	1.0	16
027	026a027	ICAL	HEX_10			01/27/07 02:46	1.0	17
028	026a028	ICAL	HEX_25			01/27/07 03:14	1.0	18
029	026a029	ICAL	HEX_50			01/27/07 03:42	1.0	19
030	026a030	ICAL	HEX_100			01/27/07 04:10	1.0	20
031	026a031	ICAL	HEX_200			01/27/07 04:38	1.0	21
032	026a032	IB	CALIB			01/27/07 05:06	1.0	
033	026a033	ICAL	BUNK_50			01/27/07 05:35	1.0	22
034	026a034	ICAL	BUNK_500			01/27/07 06:03	1.0	23
035	026a035	ICAL	BUNK_1250			01/27/07 06:31	1.0	24
036	026a036	ICAL	BUNK_2500			01/27/07 06:59	1.0	25
037	026a037	ICAL	BUNK_5000			01/27/07 07:27	1.0	26
038	026a038	IB	CALIB			01/27/07 07:55	1.0	
039	026a039	ICAL	JP5_10			01/27/07 08:23	1.0	27
040	026a040	ICAL	JP5_100			01/27/07 08:52	1.0	28
041	026a041	ICAL	JP5_500			01/27/07 09:20	1.0	29
042	026a042	ICAL	JP5_1500			01/27/07 09:48	1.0	30
043	026a043	ICAL	JP5_3000			01/27/07 10:16	1.0	31
044	026a044	ICAL	JP5_5000			01/27/07 10:44	1.0	32
045	026a045	X	IB			01/27/07 11:12	1.0	

CP 01/29/07 : Need to re-run diesel ical. standards have concentrated and need to be re-made then re-run.

Analyst: CP Date: 01/29/07 Reviewer: MCH Date: 01/29/07

Standards used: 1=S5157 2=S5274 3=S4049 4=S4854 5=S4540 6=S4542 7=S4543 8=S4538 9=S4694 10=S4615 11=S4754 12=S4755 13=S4756 14=S4758 15=S4753 16=S4639 17=S4640 18=S4641 19=S5402 20=S4644 21=S4645 22=S4708 23=S4709 24=S4710 25=S4711 26=S4712 27=S4284 28=S4285 29=S4286 30=S4287 31=S4288 32=S4283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117061448

Instrument : GC11A
Method : EPA 8015B

Begun : 02/11/07 16:08
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	042a001	X	IB			02/11/07 16:08	1.0	
002	042a002	X	DSL_500			02/11/07 16:35	1.0	1
003	042a003	X	MO_500			02/11/07 17:03	1.0	2
004	042a004	X	MO_500			02/11/07 17:47	1.0	2
005	042a005	CCV	MO_500			02/11/07 18:33	1.0	2
006	042a006	CCV	DSL_500			02/11/07 19:02	1.0	1
007	042a007	CCV	DSL_500			02/11/07 19:30	1.0	1
008	042a008	X	IB			02/11/07 20:45	1.0	
009	042a009	ICAL	DSL_10			02/11/07 21:13	1.0	3
010	042a010	ICAL	DSL_100			02/11/07 21:41	1.0	4
011	042a011	ICAL	DSL_500			02/11/07 22:09	1.0	5
012	042a012	ICAL	DSL_1000			02/11/07 22:37	1.0	6
013	042a013	ICAL	DSL_5000			02/11/07 23:05	1.0	7
014	042a014	ICAL	DSL_7500			02/11/07 23:33	1.0	8
015	042a015	IB	CALIB			02/12/07 00:01	1.0	
016	042a016	ICV	DSL_500			02/12/07 00:28	1.0	9
017	042a017	XICV	DSL_500			02/12/07 00:57	1.0	9
018	042a018	X	IB			02/12/07 01:24	1.0	
019	042a019	CMARKER	C8-C50			02/12/07 09:23	1.0	10

CP 02/12/07 : carbon markers run after ical.

Analyst: CP Date: 02/12/07 Reviewer: MCH Date: 02/12/07

Standards used: 1=S5517 2=S4886 3=S5413 4=S5414 5=S5416 6=S5417 7=S5411 8=S5412 9=S5419 10=S4049

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117245263

Instrument : GC11A
Method : EPA 8015B

Begun : 06/19/07 07:43
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	170a001	X	PRIMER			06/19/07 07:43	1.0	
002	170a002	X	IB			06/19/07 08:11	1.0	
003	170a003	CMARKER	C8-C50			06/19/07 08:40	1.0	1
004	170a004	X	DSL_500			06/19/07 09:08	1.0	2
005	170a005	X	MO_500			06/19/07 09:36	1.0	3
006	170a006	X	MO_500			06/19/07 11:15	1.0	3
008	170a008	X	IB			06/19/07 12:29	1.0	
009	170a009	X	CMARKER			06/19/07 12:57	1.0	1
010	170a010	X	DSL_500			06/19/07 13:24	1.0	2
011	170a011	X	MO_500			06/19/07 13:52	1.0	3
012	170a012	IB	CALIB			06/19/07 15:16	1.0	
013	170a013	ICAL	HEX_5			06/19/07 15:44	1.0	4
014	170a014	ICAL	HEX_10			06/19/07 16:12	1.0	5
015	170a015	ICAL	HEX_25			06/19/07 16:39	1.0	6
016	170a016	ICAL	HEX_50			06/19/07 17:07	1.0	7
017	170a017	ICAL	HEX_100			06/19/07 17:35	1.0	8
018	170a018	ICAL	HEX_200			06/19/07 18:03	1.0	9
019	170a019	X	IB			06/19/07 18:30	1.0	

Analyst: DLM Date: 06/19/07 Reviewer: CW Date: 06/20/07

Standards used: 1=S4049 2=S6346 3=S6046 4=S5751 5=S5752 6=S5753 7=S5754 8=S5755 9=S5756

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117439689

Instrument : GC11A
Method : EPA 8015B

Begun : 11/01/07 08:09
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	305a001	X	IB				11/01/07 08:09	1.0		
002	305a002	CMARKER	C8 C50				11/01/07 08:37	1.0	1	
003	305a003	CCV	DSL_500				11/01/07 09:05	1.0	2	
004	305a004	CCV	MO_500				11/01/07 09:33	1.0	3	
005	305a005	CCV	OTP_50				11/01/07 10:02	1.0	4	
006	305a006	SAMPLE	198811-002	S	Soil	131140	11/01/07 10:30	1.0		
007	305a007	CCV	DSL_250				11/01/07 11:01	1.0	5	
008	305a008	CCV	MO_500				11/01/07 11:29	1.0	3	
009	305a009	CCV	OTP_50				11/01/07 11:57	1.0	4	
010	305a010	SAMPLE	198620-044		Water	131079	11/01/07 12:29	1.0		
011	305a011	SAMPLE	198620-040		Water	131079	11/01/07 12:57	1.0		
012	305a012	SAMPLE	198620-043		Water	131079	11/01/07 13:25	1.0		
013	305a013	SAMPLE	198620-046		Water	131079	11/01/07 13:53	1.0		
014	305a014	SAMPLE	198620-038		Water	131079	11/01/07 14:40	1.0		
015	305a015	SAMPLE	198620-039		Water	131079	11/01/07 15:08	1.0		2:BUNKC:12-40=13000
016	305a016	SAMPLE	198620-047		Water	131079	11/01/07 15:36	1.0		
017	305a017	X	IB				11/01/07 16:04	1.0		
018	305a018	CCV	DSL_1000				11/01/07 16:32	1.0	6	
019	305a019	CCV	JP5_250				11/01/07 17:00	1.0	7	
020	305a020	CCV	JP8_250				11/01/07 17:28	1.0	8	
021	305a021	X	IB				11/01/07 23:39	1.0		
022	305a022	CCV	MO_500				11/02/07 00:07	1.0	3	
023	305a023	CCV	OTP_50				11/02/07 00:35	1.0	4	
024	305a024	BS	QC413154		Water	131166	11/02/07 01:14	1.0		
025	305a025	BSD	QC413155		Water	131166	11/02/07 01:42	1.0		
026	305a026	BLANK	QC413153		Water	131166	11/02/07 02:10	1.0		
027	305a027	SAMPLE	198597-003		Water	131162	11/02/07 02:38	1.0		
028	305a028	SAMPLE	198597-004		Water	131162	11/02/07 03:06	1.0		
029	305a029	SAMPLE	198597-005		Water	131162	11/02/07 03:34	1.0		
030	305a030	SAMPLE	198899-002		Soil	131205	11/02/07 04:02	1.0		
031	305a031	SAMPLE	198899-001		Soil	131205	11/02/07 04:30	100.0		
032	305a032	SAMPLE	198899-003		Soil	131205	11/02/07 04:58	20.0		
033	305a033	X	IB				11/02/07 05:26	1.0		
034	305a034	SAMPLE	198597-006		Water	131162	11/02/07 05:55	1.0		2:BUNKC:12-40=5700
035	305a035	X	CMARKER				11/02/07 06:23	1.0	1	
036	305a036	CCV	MO_500				11/02/07 06:51	1.0	3	
037	305a037	CCV	DSL_500				11/02/07 07:19	1.0	2	
038	305a038	CCV	JP5_250				11/02/07 07:47	1.0	7	
039	305a039	CCV	JP8_250				11/02/07 08:15	1.0	8	
040	305a040	X	SPIKECHK				11/02/07 08:43	1.0	9	2:BUNKC:12-40=5800
041	305a041	SAMPLE	198499-014		Water	131166	11/02/07 09:12	1.0		
042	305a042	SAMPLE	198499-013		Water	131166	11/02/07 09:40	1.0		
043	305a043	SAMPLE	198499-012		Water	131166	11/02/07 10:08	1.0		
044	305a044	SAMPLE	198499-015		Water	131166	11/02/07 10:37	1.0		
045	305a045	SAMPLE	198558-002		Water	131166	11/02/07 11:05	1.0		
046	305a046	SAMPLE	198558-005		Water	131166	11/02/07 11:33	1.0		
047	305a047	SAMPLE	198629-002		Water	131162	11/02/07 12:01	1.0		
048	305a048	SAMPLE	198558-004		Water	131166	11/02/07 12:29	1.0		
049	305a049	SAMPLE	198558-003		Water	131166	11/02/07 12:57	1.0		
050	305a050	SAMPLE	198558-006		Water	131166	11/02/07 13:25	1.0		
051	305a051	CCV	DSL_250				11/02/07 13:53	1.0	5	
052	305a052	CCV	MO_500				11/02/07 14:21	1.0	3	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117439689

Instrument : GC11A
Method : EPA 8015B

Begun : 11/01/07 08:09
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	305a053	CCV	JP5_250				11/02/07 14:49	1.0	7
054	305a054	CCV	JP8_250				11/02/07 15:17	1.0	8
055	305a055	CCV	BUNK_1250				11/02/07 15:45	1.0	10
056	305a056	X	IB				11/02/07 18:27	1.0	
057	305a057	SAMPLE	198671-002		Water	131199	11/02/07 18:55	1.0	
058	305a058	X	CMARKER				11/02/07 19:40	1.0	1
059	305a059	SAMPLE	198671-003		Water	131199	11/02/07 20:08	1.0	
060	305a060	SAMPLE	198671-004		Water	131199	11/02/07 20:37	1.0	
061	305a061	SAMPLE	198671-005		Water	131199	11/02/07 21:05	1.0	
062	305a062	SAMPLE	198671-007		Water	131199	11/02/07 21:34	1.0	
063	305a063	X	IB				11/02/07 22:02	1.0	
064	305a064	BLANK	QC413267		Water	131199	11/02/07 22:30	1.0	
065	305a065	BLANK	QC413267	S	Water	131199	11/02/07 22:58	1.0	
066	305a066	X	IB				11/04/07 18:56	1.0	
067	305a067	X	CMARKER				11/04/07 19:24	1.0	1
068	305a068	CCV	DSL_1000				11/04/07 19:52	1.0	6
069	305a069	CCV	MO_500				11/04/07 20:20	1.0	3
070	305a070	CCV	JP5_250				11/04/07 20:48	1.0	7
071	305a071	CCV	JP8_250				11/04/07 21:16	1.0	8
072	305a072	CCV	BUNK_1250				11/04/07 21:44	1.0	10
073	305a073	X	CCV				11/04/07 22:12	1.0	6
074	305a074	X	CCV				11/04/07 22:40	1.0	3
075	305a075	X	CCV				11/04/07 23:08	1.0	7
076	305a076	X	CCV				11/04/07 23:36	1.0	8
077	305a077	X	CCV				11/05/07 00:04	1.0	10
078	305a078	SAMPLE	198770-002	S	Water	131199	11/05/07 00:32	1.0	
079	305a079	SAMPLE	198770-003	S	Water	131199	11/05/07 01:00	1.0	
080	305a080	SAMPLE	198770-004	S	Water	131199	11/05/07 01:28	1.0	
081	305a081	SAMPLE	198770-005	S	Water	131199	11/05/07 01:56	1.0	
082	305a082	SAMPLE	198770-006	S	Water	131199	11/05/07 02:24	1.0	
083	305a083	SAMPLE	198819-001		Water	131199	11/05/07 02:52	1.0	
084	305a084	LCS	QC413268	S	Water	131199	11/05/07 03:21	1.0	
085	305a085	X	IB				11/05/07 03:48	1.0	
086	305a086	SAMPLE	198770-001	S	Water	131199	11/05/07 04:16	1.0	
087	305a087	CCV	DSL_250				11/05/07 04:45	1.0	5
088	305a088	CCV	MO_500				11/05/07 05:13	1.0	3
089	305a089	CCV	JP5_250				11/05/07 05:41	1.0	7
090	305a090	CCV	BUNK_1250				11/05/07 06:09	1.0	10
091	305a091	CCV	OTP_50				11/05/07 06:37	1.0	4
092	305a092	CCV	JP8_250				11/05/07 07:05	1.0	8
093	305a093	X	CCV				11/05/07 07:33	1.0	5
094	305a094	X	CCV				11/05/07 08:01	1.0	3
095	305a095	X	CCV				11/05/07 08:30	1.0	7
096	305a096	X	CCV				11/05/07 08:58	1.0	10
097	305a097	X	CCV				11/05/07 09:26	1.0	4
098	305a098	X	CCV				11/05/07 09:54	1.0	8
099	305a099	BLANK	QC413529		Water	131266	11/05/07 10:23	1.0	
100	305a100	SAMPLE	198499-016		Water	131266	11/05/07 10:51	1.0	
101	305a101	SAMPLE	198558-003		Water	131266	11/05/07 11:19	1.0	
102	305a102	SAMPLE	198629-002		Water	131266	11/05/07 11:47	1.0	
103	305a103	SAMPLE	198717-002		Water	131266	11/05/07 12:16	1.0	
104	305a104	SAMPLE	198717-003		Water	131266	11/05/07 12:44	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117439689

Instrument : GC11A
Method : EPA 8015B

Begun : 11/01/07 08:09
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	305a105	SAMPLE	198717-004		Water	131266	11/05/07 13:12	1.0		
106	305a106	SAMPLE	198717-005		Water	131266	11/05/07 13:40	1.0		
107	305a107	SAMPLE	198820-001		Water	131266	11/05/07 14:08	1.0		
108	305a108	X	IB				11/05/07 14:36	1.0		
109	305a109	SAMPLE	198717-006		Water	131266	11/05/07 15:04	1.0		
110	305a110	X	CMARKER				11/05/07 15:32	1.0	1	
111	305a111	CCV	DSL_500				11/05/07 16:00	1.0	11	
112	305a112	CCV	MO_500				11/05/07 16:28	1.0	3	
113	305a113	CCV	JP5_250				11/05/07 16:56	1.0	7	
114	305a114	CCV	BUNK_1250				11/05/07 17:24	1.0	10	
115	305a115	CCV	OTP_50				11/05/07 17:52	1.0	4	
116	305a116	CCV	JP8_250				11/05/07 18:20	1.0	8	
117	305a117	X	IB				11/06/07 01:13	1.0		
118	305a118	LCS	QC413607	S	Soil	131287	11/06/07 01:41	1.0		
119	305a119	BLANK	QC413606	S	Soil	131287	11/06/07 02:09	1.0		
120	305a120	BLANK	QC413606		Soil	131287	11/06/07 02:37	1.0		
121	305a121	SAMPLE	198800-002		Water	131293	11/06/07 03:05	1.0		
122	305a122	SAMPLE	198800-003		Water	131293	11/06/07 03:33	1.0		
123	305a123	SAMPLE	198896-005	S	Water	131292	11/06/07 04:01	1.0		
124	305a124	SAMPLE	198896-011	S	Water	131292	11/06/07 04:29	1.0		7:BUNKC:12-40=15000
125	305a125	SAMPLE	198896-009	S	Water	131292	11/06/07 04:57	1.0		10:BUNKC:12-40=41000
126	305a126	SAMPLE	198896-010	S	Water	131292	11/06/07 05:25	1.0		
127	305a127	X	IB				11/06/07 05:54	1.0		
128	305a128	SAMPLE	198896-012	S	Water	131292	11/06/07 06:22	1.0		
129	305a129	CCV	DSL_1000				11/06/07 06:50	1.0	6	
130	305a130	CCV	MO_500				11/06/07 07:18	1.0	3	
131	305a131	SAMPLE	198895-001		Water	131293	11/06/07 07:53	1.0		
132	305a132	SAMPLE	198895-002		Water	131293	11/06/07 08:22	1.0		
133	305a133	LCS	QC413607	S	Soil	131287	11/06/07 08:50	1.0		
134	305a134	SAMPLE	198896-009	S	Water	131292	11/06/07 09:18	20.0		
135	305a135	SAMPLE	198896-011	S	Water	131292	11/06/07 09:47	10.0		
136	305a136	LCS	QC413607		Soil	131287	11/06/07 10:15	1.0		
137	305a137	SAMPLE	198903-002	S	Soil	131296	11/06/07 10:43	1.0		
138	305a138	SAMPLE	198903-003	S	Soil	131296	11/06/07 11:11	5.0		
139	305a139	X	IB				11/06/07 11:40	1.0		
140	305a140	MS	QC413626	S	Soil	131296	11/06/07 12:08	1.0		
141	305a141	MSD	QC413627	S	Soil	131296	11/06/07 12:36	1.0		
142	305a142	X	IB				11/06/07 13:05	1.0		
143	305a143	X	CMARKER				11/06/07 13:33	1.0	5	
144	305a144	CCV	DSL_250				11/06/07 14:01	1.0	5	
145	305a145	CCV	MO_500				11/06/07 14:33	1.0	3	

Standards used: 1=S7307 2=S6808 3=S7310 4=S6922 5=S6807 6=S6809 7=S6929 8=S6930 9=S7578 10=S7350 11=S7541

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117447306

Instrument : GC11A
Method : EPA 8015B

Begun : 11/06/07 15:06
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	310a001	X	IB				11/06/07 15:06	1.0		
002	310a002	X	CMARKER				11/06/07 15:34	1.0	1	
003	310a003	CCV	DSL_500				11/06/07 16:02	1.0	2	
004	310a004	CCV	MO_500				11/06/07 16:30	1.0	3	
005	310a005	CCV	JP5_250				11/06/07 16:59	1.0	4	
006	310a006	CCV	BUNK_1250				11/06/07 17:27	1.0	5	
007	310a007	BS	QC413787	S	Water	131332	11/06/07 17:55	1.0		
008	310a008	BSD	QC413788	S	Water	131332	11/06/07 18:23	1.0		
009	310a009	BLANK	QC413786	S	Water	131332	11/06/07 18:51	1.0		
010	310a010	SAMPLE	198925-003	S	Water	131332	11/06/07 19:19	1.0		
011	310a011	SAMPLE	198925-001		Water	131332	11/06/07 19:48	1.0		
012	310a012	SAMPLE	198925-003		Water	131332	11/06/07 20:16	1.0		
013	310a013	SAMPLE	198948-001		Water	131332	11/06/07 20:44	1.0		
014	310a014	SAMPLE	198948-002		Water	131332	11/06/07 21:12	1.0		
015	310a015	SAMPLE	198948-003		Water	131332	11/06/07 21:40	1.0		14:BUNKC:12-40=22000
016	310a016	X	IB				11/06/07 22:08	1.0		
017	310a017	SAMPLE	198948-004		Water	131332	11/06/07 22:36	1.0		
018	310a018	CCV	DSL_250				11/06/07 23:04	1.0	6	
019	310a019	CCV	MO_500				11/06/07 23:32	1.0	3	
020	310a020	CCV	JP5_250				11/07/07 00:00	1.0	4	
021	310a021	CCV	BUNK_1250				11/07/07 00:28	1.0	5	
022	310a022	X	CCV				11/07/07 00:56	1.0	6	
023	310a023	X	CCV				11/07/07 01:24	1.0	3	
024	310a024	X	CCV				11/07/07 01:52	1.0	4	
025	310a025	X	CCV				11/07/07 02:20	1.0	5	
026	310a026	BS	QC413787		Water	131332	11/07/07 02:47	1.0		
027	310a027	BSD	QC413788		Water	131332	11/07/07 03:15	1.0		
028	310a028	BLANK	QC413786		Water	131332	11/07/07 03:44	1.0		
029	310a029	SAMPLE	198880-004	S	Water	131332	11/07/07 04:12	1.0		
030	310a030	SAMPLE	198903-004	S	Water	131332	11/07/07 04:40	1.0		
031	310a031	SAMPLE	198956-002	S	Water	131332	11/07/07 05:08	1.0		
032	310a032	SAMPLE	198957-010		Soil	131317	11/07/07 05:36	1.0		10:BUNKC:12-40=44000
033	310a033	SAMPLE	198957-012		Soil	131317	11/07/07 06:04	1.0		
034	310a034	SAMPLE	198957-011		Soil	131317	11/07/07 06:32	3.0		
035	310a035	X	IB				11/07/07 07:00	1.0		
036	310a036	SAMPLE	198814-002		Water	131332	11/07/07 07:28	1.0		
037	310a037	X	CMARKER				11/07/07 07:56	1.0	1	
038	310a038	CCV	DSL_1000				11/07/07 08:25	1.0	7	
039	310a039	CCV	MO_500				11/07/07 08:53	1.0	3	
040	310a040	CCV	JP5_250				11/07/07 09:21	1.0	4	
041	310a041	CCV	BUNK_1250				11/07/07 09:49	1.0	5	
042	310a042	SAMPLE	198948-003		Water	131332	11/07/07 10:26	20.0		
043	310a043	SAMPLE	198925-003		Water	131332	11/07/07 10:55	1.0		
044	310a044	SAMPLE	198925-001		Water	131332	11/07/07 11:23	1.0		
045	310a045	SAMPLE	198986-033		Soil	131364	11/07/07 12:12	2.0		
046	310a046	X	IB				11/07/07 13:42	1.0		
047	310a047	MS	QC413608	S	Soil	131287	11/07/07 14:09	1.0		
048	310a048	MSD	QC413609	S	Soil	131287	11/07/07 14:38	1.0		
049	310a049	X	IB				11/07/07 17:33	1.0		
050	310a050	SAMPLE	198986-030		Soil	131364	11/07/07 18:01	10.0		
051	310a051	SAMPLE	198957-010		Soil	131317	11/07/07 18:29	10.0		2:BUNKC:12-50=5500
052	310a052	SAMPLE	198986-028		Soil	131364	11/07/07 18:57	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117447306

Instrument : GC11A
Method : EPA 8015B

Begun : 11/06/07 15:06
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	310a053	X	IB				11/07/07 19:25	1.0		
054	310a054	BLANK	QC413934	S	Soil	131364	11/07/07 19:53	1.0		
055	310a055	CCV	DSL_500				11/07/07 20:21	1.0	2	
056	310a056	CCV	MO_500				11/07/07 20:49	1.0	3	
057	310a057	CCV	JP5_250				11/07/07 21:17	1.0	4	
058	310a058	CCV	BUNK_1250				11/07/07 21:46	1.0	5	
059	310a059	X	CCV				11/07/07 22:14	1.0	2	
060	310a060	X	CCV				11/07/07 22:42	1.0	3	
061	310a061	X	CCV				11/07/07 23:10	1.0	4	
062	310a062	X	CCV				11/07/07 23:38	1.0	5	
063	310a063	X	CMARKER				11/08/07 00:06	1.0	1	

Standards used: 1=S7307 2=S7541 3=S7310 4=S6929 5=S7350 6=S7540 7=S6809

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167416763

Instrument : GC15B
Method : EPA 8015B

Begun : 10/16/07 10:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	289b001	X	PRIMER			10/16/07 10:03	1.0	
002	289b002	X	IB			10/16/07 10:30	1.0	
003	289b003	X	CMARKER			10/16/07 10:58	1.0	1
004	289b004	CCV	DSL_250			10/16/07 11:26	1.0	2
005	289b005	CCV	MO_500			10/16/07 11:53	1.0	3
006	289b006	CCV	DSL_250			10/16/07 12:47	1.0	2
007	289b007	X	IB			10/17/07 14:25	1.0	
009	289b009	X	IB			10/17/07 16:54	1.0	
010	289b010	X	IB			10/17/07 17:22	1.0	
011	289b011	CMARKER	C10-C50			10/17/07 17:50	1.0	1
012	289b012	CCV	DSL_500			10/17/07 18:17	1.0	4
013	289b013	CCV	MO_500			10/17/07 18:45	1.0	3
014	289b014	CCV	OTP_50			10/17/07 19:12	1.0	5
015	289b015	X	IB			10/18/07 01:44	1.0	
016	289b016	IB	CALIB			10/18/07 02:12	1.0	
017	289b017	ICAL	DSL_10			10/18/07 02:40	1.0	6
018	289b018	ICAL	DSL_100			10/18/07 03:07	1.0	7
019	289b019	ICAL	DSL_500			10/18/07 03:35	1.0	8
020	289b020	ICAL	DSL_1000			10/18/07 04:03	1.0	9
021	289b021	ICAL	DSL_5000			10/18/07 04:31	1.0	10
022	289b022	ICAL	DSL_7500			10/18/07 04:58	1.0	11
023	289b023	IB	CALIB			10/18/07 05:26	1.0	
024	289b024	ICV	DSL_500			10/18/07 05:54	10.0	12
025	289b025	X	ICV			10/18/07 06:22	1.0	12
026	289b026	IB	CALIB			10/18/07 06:50	1.0	
027	289b027	ICAL	MO_50			10/18/07 07:18	1.0	13
028	289b028	ICAL	MO_250			10/18/07 07:46	1.0	14
029	289b029	ICAL	MO_500			10/18/07 08:14	1.0	15
030	289b030	ICAL	MO_1000			10/18/07 08:42	1.0	16
031	289b031	ICAL	MO_5000			10/18/07 09:10	1.0	17
032	289b032	ICAL	MO_7500			10/18/07 09:38	1.0	18
033	289b033	IB	CALIB			10/18/07 10:06	1.0	
034	289b034	IB	CALIB			10/18/07 10:34	1.0	
035	289b035	ICAL	HEX_5			10/18/07 11:02	1.0	19
036	289b036	ICAL	HEX_10			10/18/07 11:30	1.0	20
037	289b037	ICAL	HEX_25			10/18/07 11:57	1.0	21
038	289b038	ICAL	HEX_50			10/18/07 12:25	1.0	22
039	289b039	ICAL	HEX_100			10/18/07 12:53	1.0	23
040	289b040	ICAL	HEX_200			10/18/07 13:21	1.0	24
041	289b041	IB	CALIB			10/18/07 13:48	1.0	
042	289b042	ICAL	OTP_5			10/18/07 14:16	1.0	25
043	289b043	ICAL	OTP_10			10/18/07 14:44	1.0	26
044	289b044	ICAL	OTP_25			10/18/07 15:12	1.0	27
045	289b045	ICAL	OTP_50			10/18/07 15:39	1.0	28
046	289b046	ICAL	OTP_100			10/18/07 16:07	1.0	29
047	289b047	ICAL	OTP_200			10/18/07 16:34	1.0	30
048	289b048	IB	CALIB			10/18/07 17:02	1.0	

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Standards used: 1=S6952 2=S6807 3=S7310 4=S6808 5=S6922 6=S6612 7=S6613 8=S6614 9=S6615 10=S6611 11=S6616 12=S6617 13=S6848 14=S6849 15=S6850 16=S6851 17=S6846 18=S6847 19=S7036 20=S7037 21=S7038 22=S7039 23=S7040 24=S7041 25=S6397 26=S6398 27=S6399 28=S6400 29=S6401 30=S6402

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167444633

Instrument : GC15B
Method : EPA 8015B

Begun : 11/04/07 18:33
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	308b001	X	PRIMER				11/04/07 18:33	1.0	
002	308b002	X	IB				11/04/07 19:00	1.0	
003	308b003	X	CMARKER				11/04/07 19:28	1.0	1
004	308b004	CCV	DSL_500				11/04/07 19:55	1.0	2
005	308b005	CCV	MO_500				11/04/07 20:23	1.0	3
006	308b006	X	IB				11/05/07 02:22	1.0	
007	308b007	CCV	OTP_50				11/05/07 02:50	1.0	4
008	308b008	BS	QC413530	S	Water	131266	11/05/07 04:08	1.0	
009	308b009	BSD	QC413531	S	Water	131266	11/05/07 04:36	1.0	
010	308b010	BLANK	QC413529	S	Water	131266	11/05/07 05:03	1.0	
011	308b011	SAMPLE	198824-001		Water	131266	11/05/07 05:31	1.0	
012	308b012	SAMPLE	198824-002		Water	131266	11/05/07 05:59	1.0	
013	308b013	SAMPLE	198620-049		Water	131266	11/05/07 06:27	1.0	
014	308b014	SAMPLE	198829-007	S	Soil	131280	11/05/07 06:55	1.0	
015	308b015	SAMPLE	198829-010	S	Soil	131280	11/05/07 07:22	1.0	
016	308b016	SAMPLE	198910-001	S	Soil	131280	11/05/07 07:50	1.0	
017	308b017	X	IB				11/05/07 08:18	1.0	
018	308b018	SAMPLE	198824-003		Water	131266	11/05/07 08:46	1.0	
019	308b019	X	CMARKER				11/05/07 09:14	1.0	1
020	308b020	CCV	MO_500				11/05/07 09:42	1.0	3
021	308b021	CCV	DSL_250				11/05/07 10:10	1.0	5
022	308b022	CCV	OTP_50				11/05/07 10:38	1.0	4
023	308b023	BLANK	QC413529	S	Water	131266	11/05/07 11:07	1.0	
024	308b024	CCV	MO_500				11/05/07 12:26	1.0	3
025	308b025	CCV	DSL_1000				11/05/07 12:53	1.0	6
026	308b026	SAMPLE	198843-001		Soil	131280	11/05/07 13:21	200.0	
027	308b027	SAMPLE	198874-003		Soil	131280	11/05/07 13:49	3.0	
028	308b028	SAMPLE	198874-002		Soil	131280	11/05/07 14:17	3.0	
029	308b029	SAMPLE	198874-004		Soil	131280	11/05/07 14:44	20.0	
030	308b030	SAMPLE	198874-006		Soil	131280	11/05/07 15:12	1.0	
031	308b031	X	IB				11/05/07 15:40	1.0	
032	308b032	SAMPLE	198874-005		Soil	131280	11/05/07 16:08	1.0	
033	308b033	SAMPLE	198874-001		Soil	131280	11/05/07 16:35	1.0	
034	308b034	X	IB				11/05/07 17:03	1.0	
035	308b035	X	IB				11/05/07 21:43	1.0	
036	308b036	X	CMARKER				11/05/07 22:11	1.0	1
037	308b037	CCV	MO_500				11/05/07 22:39	1.0	3
038	308b038	CCV	DSL_500				11/05/07 23:07	1.0	7
039	308b039	CCV	OTP_50				11/05/07 23:35	1.0	4
040	308b040	SAMPLE	198698-002	S	Water	131266	11/06/07 00:15	1.0	
041	308b041	SAMPLE	198698-003	S	Water	131266	11/06/07 00:43	1.0	
042	308b042	SAMPLE	198698-004	S	Water	131266	11/06/07 01:11	1.0	
043	308b043	SAMPLE	198698-005	S	Water	131266	11/06/07 01:39	1.0	
044	308b044	SAMPLE	198859-006		Water	131293	11/06/07 02:07	1.0	
045	308b045	SAMPLE	198859-004		Water	131293	11/06/07 02:35	1.0	
046	308b046	SAMPLE	198859-005		Water	131293	11/06/07 03:03	1.0	
047	308b047	SAMPLE	198903-002	S	Soil	131296	11/06/07 03:31	10.0	
048	308b048	SAMPLE	198903-003	S	Soil	131296	11/06/07 03:58	20.0	
049	308b049	X	IB				11/06/07 04:26	1.0	
050	308b050	SAMPLE	198956-008	S	Soil	131296	11/06/07 04:54	1.0	
051	308b051	CCV	MO_500				11/06/07 05:22	1.0	3
052	308b052	CCV	DSL_250				11/06/07 05:50	1.0	5

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167444633

Instrument : GC15B
Method : EPA 8015B

Begun : 11/04/07 18:33
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	308b053	X	CCV				11/06/07 06:18	1.0	3
054	308b054	X	CCV				11/06/07 06:46	1.0	5
055	308b055	LCS	QC413625	S	Soil	131296	11/06/07 07:13	1.0	
056	308b056	BLANK	QC413624	S	Soil	131296	11/06/07 07:42	1.0	
057	308b057	MSS	198956-001	S	Soil	131296	11/06/07 08:10	1.0	
058	308b058	MS	QC413626	S	Soil	131296	11/06/07 08:37	1.0	
059	308b059	MSD	QC413627	S	Soil	131296	11/06/07 09:05	1.0	
060	308b060	X	IB				11/06/07 09:33	1.0	
061	308b061	SAMPLE	198903-006	S	Soil	131296	11/06/07 10:02	1.0	
062	308b062	SAMPLE	198956-003	S	Soil	131296	11/06/07 10:30	1.0	
063	308b063	SAMPLE	198956-004	S	Soil	131296	11/06/07 10:58	1.0	
064	308b064	SAMPLE	198956-005	S	Soil	131296	11/06/07 11:26	1.0	
065	308b065	X	IB				11/06/07 11:54	1.0	
066	308b066	SAMPLE	198956-009	S	Soil	131296	11/06/07 12:22	1.0	
067	308b067	X	CMARKER				11/06/07 12:50	1.0	1
068	308b068	CCV	MO_500				11/06/07 13:19	1.0	3
069	308b069	CCV	DSL_1000				11/06/07 13:47	1.0	6
070	308b070	SAMPLE	198956-010	S	Soil	131296	11/06/07 14:16	1.0	
071	308b071	SAMPLE	198956-012	S	Soil	131296	11/06/07 14:44	1.0	
072	308b072	SAMPLE	198956-013	S	Soil	131296	11/06/07 15:11	1.0	
073	308b073	SAMPLE	198956-006	S	Soil	131296	11/06/07 15:39	1.0	
074	308b074	SAMPLE	198956-007	S	Soil	131296	11/06/07 16:07	1.0	
075	308b075	X	IB				11/06/07 16:35	1.0	
076	308b076	SAMPLE	198956-014	S	Soil	131296	11/06/07 17:03	1.0	
077	308b077	SAMPLE	198956-015	S	Soil	131296	11/06/07 17:31	1.0	
078	308b078	SAMPLE	198929-003		Soil	131296	11/06/07 17:59	1.0	
079	308b079	SAMPLE	198926-001		Water	131293	11/06/07 18:27	1.0	
080	308b080	X	IB				11/06/07 18:55	1.0	
081	308b081	BLANK	QC413624		Soil	131296	11/06/07 19:23	1.0	
082	308b082	CCV	MO_500				11/06/07 19:51	1.0	3
083	308b083	CCV	DSL_500				11/06/07 20:19	1.0	7
084	308b084	LCS	QC413728	S	Soil	131317	11/06/07 20:47	1.0	
085	308b085	BLANK	QC413727	S	Soil	131317	11/06/07 22:48	1.0	
086	308b086	BLANK	QC413727		Soil	131317	11/06/07 23:16	1.0	
087	308b087	SAMPLE	198959-002		Soil	131317	11/06/07 23:44	1.0	
088	308b088	SAMPLE	198959-003		Soil	131317	11/07/07 00:11	1.0	
089	308b089	SAMPLE	198959-004		Soil	131317	11/07/07 00:39	1.0	
090	308b090	MSS	198959-001		Soil	131317	11/07/07 01:07	1.0	
091	308b091	MS	QC413729		Soil	131317	11/07/07 01:35	1.0	
092	308b092	MSD	QC413730		Soil	131317	11/07/07 02:02	1.0	
093	308b093	X	IB				11/07/07 02:30	1.0	
094	308b094	SAMPLE	198959-005		Soil	131317	11/07/07 02:58	1.0	
095	308b095	X	CMARKER				11/07/07 03:25	1.0	1
096	308b096	CCV	MO_500				11/07/07 03:53	1.0	3
097	308b097	CCV	DSL_250				11/07/07 04:20	1.0	8
098	308b098	X	CCV				11/07/07 04:48	1.0	3
099	308b099	X	CCV				11/07/07 05:16	1.0	8

Standards used: 1=S6952 2=S6808 3=S7310 4=S6922 5=S6807 6=S6809 7=S7541 8=S7540

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	262a001	X	PRIMER				09/19/07 08:51	1.0		
002	262a002	X	IB				09/19/07 09:18	1.0		
003	262a003	XCMARKER	C10-C50				09/19/07 09:46	1.0	1	
005	262a005	X	IB				09/19/07 11:09	1.0		
006	262a006	XCMARKER	C10-C50				09/19/07 11:36	1.0	1	
007	262a007	CCV	DSL_500				09/19/07 12:04	1.0	2	
008	262a008	CCV	MO_500				09/19/07 12:31	1.0	3	
009	262a009	CCV	OTP_50				09/19/07 12:58	1.0	4	
010	262a010	SAMPLE	197670-001		Soil	129574	09/19/07 13:26	1.0		
011	262a011	SAMPLE	197670-002		Soil	129574	09/19/07 13:54	1.0		
012	262a012	SAMPLE	197670-003		Soil	129574	09/19/07 14:21	1.0		
013	262a013	SAMPLE	197670-004		Soil	129574	09/19/07 14:48	1.0		
014	262a014	SAMPLE	197670-005		Soil	129574	09/19/07 15:16	1.0		
015	262a015	SAMPLE	197670-006		Soil	129574	09/19/07 15:44	1.0		
016	262a016	SAMPLE	197670-007		Soil	129574	09/19/07 16:11	1.0		
017	262a017	SAMPLE	197670-008		Soil	129574	09/19/07 16:38	1.0		
018	262a018	SAMPLE	197670-009		Soil	129574	09/19/07 17:06	1.0		
019	262a019	SAMPLE	197670-010		Soil	129574	09/19/07 17:33	1.0		
020	262a020	CCV	DSL_1000				09/19/07 18:00	1.0	5	
021	262a021	CCV	MO_500				09/19/07 18:28	1.0	3	
022	262a022	CCV	DSL_1000				09/19/07 18:55	1.0	5	
023	262a023	IB	CALIB				09/19/07 19:23	1.0		
024	262a024	ICAL	HEX_5				09/19/07 19:51	1.0	6	
025	262a025	ICAL	HEX_10				09/19/07 20:18	1.0	7	
026	262a026	ICAL	HEX_25				09/19/07 20:46	1.0	8	
027	262a027	ICAL	HEX_50				09/19/07 21:13	1.0	9	
028	262a028	ICAL	HEX_100				09/19/07 21:41	1.0	10	
029	262a029	X	IB				09/19/07 22:08	1.0		
030	262a030	X	CMARKER				09/19/07 22:36	1.0	1	
031	262a031	CCV	DSL_250				09/19/07 23:03	1.0	11	
032	262a032	CCV	MO_500				09/19/07 23:31	1.0	3	
033	262a033	X	IB				09/20/07 00:02	1.0		
034	262a034	X	TANKCHK				09/20/07 00:29	1.0		
035	262a035	X	TANKCHK				09/20/07 00:56	1.0		
036	262a036	SAMPLE	197624-001		Water	129615	09/20/07 01:24	1.0		
037	262a037	XCMARKER	C10-C50				09/20/07 01:51	1.0	1	
038	262a038	CCV	DSL_500				09/20/07 02:18	1.0	2	
039	262a039	CCV	MO_500				09/20/07 02:46	1.0	3	
040	262a040	X	CCV				09/20/07 03:13	1.0	2	
041	262a041	X	CCV				09/20/07 03:41	1.0	3	
042	262a042	X	IB				09/20/07 08:18	1.0		
043	262a043	X	IB				09/20/07 08:45	1.0		
044	262a044	SAMPLE	197668-024	S	Soil	129593	09/20/07 09:13	10.0		
045	262a045	LCS	QC406929	S	Soil	129661	09/20/07 09:40	1.0		
046	262a046	BLANK	QC406928	S	Soil	129661	09/20/07 10:08	1.0		
047	262a047	SAMPLE	197557-001	S	Soil	129661	09/20/07 10:36	1.0		2:BUNKC:12-40=6200
048	262a048	SAMPLE	197557-019	S	Soil	129661	09/20/07 11:07	1.0		
049	262a049	X	IB				09/20/07 11:34	1.0		
050	262a050	SAMPLE	197557-015	S	Soil	129661	09/20/07 12:02	1.0		
051	262a051	CCV	DSL_1000				09/20/07 12:29	1.0	5	
052	262a052	X					09/20/07 12:57	1.0	3	
053	262a053	CCV	MO_500				09/20/07 13:26	1.0	3	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	262a054	SAMPLE	197557-017	S	Soil	129532	09/20/07 14:25	1.0	
055	262a055	CCV	DSL_250				09/20/07 14:55	1.0	11
056	262a056	CCV	MO_500				09/20/07 15:23	1.0	3
057	262a057	CCV	DSL_250				09/20/07 15:53	1.0	11
058	262a058	X	IB				09/21/07 01:38	1.0	
059	262a059	X	CMARKER				09/21/07 02:06	1.0	1
060	262a060	IB	CALIB				09/21/07 02:33	1.0	
061	262a061	ICAL	DSL_10				09/21/07 03:01	1.0	12
062	262a062	ICAL	DSL_100				09/21/07 03:28	1.0	13
063	262a063	ICAL	DSL_500				09/21/07 03:55	1.0	14
064	262a064	ICAL	DSL_1000				09/21/07 04:23	1.0	15
065	262a065	ICAL	DSL_5000				09/21/07 04:51	1.0	16
066	262a066	ICAL	DSL_7500				09/21/07 05:18	1.0	17
067	262a067	IB	CALIB				09/21/07 05:46	1.0	
068	262a068	ICV	DSL_500				09/21/07 06:13	1.0	18
069	262a069	X	ICV				09/21/07 06:41	1.0	19

Standards used: 1=S6952 2=S6808 3=S6790 4=S6922 5=S6809 6=S7036 7=S7037 8=S7038 9=S7039 10=S7040 11=S6807 12=S6612 13=S6613 14=S6614 15=S6615 16=S6611 17=S6616 18=S6617 19=S56617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177441350

Instrument : GC17A
Method : EPA 8015B

Begun : 11/02/07 11:50
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	306a001	X	IB			11/02/07 11:50	1.0	
002	306a002	X	IB			11/02/07 12:17	1.0	
003	306a003	CMARKER	C8-C50			11/02/07 12:45	1.0	1
004	306a004	CCV	DSL_500			11/02/07 13:12	1.0	2
005	306a005	CCV	MO_500			11/02/07 13:40	1.0	3
006	306a006	CCV	DSL_500			11/02/07 14:58	1.0	2
007	306a007	IB	CALIB			11/02/07 17:33	1.0	
008	306a008	ICAL	DSL_10			11/02/07 19:16	1.0	4
009	306a009	ICAL	DSL_100			11/02/07 19:44	1.0	5
010	306a010	ICAL	DSL_500			11/02/07 20:11	1.0	6
011	306a011	ICAL	DSL_1000			11/02/07 20:39	1.0	7
012	306a012	ICAL	DSL_5000			11/02/07 21:06	1.0	8
013	306a013	ICAL	DSL_7500			11/02/07 21:34	1.0	9
014	306a014	IB	CALIB			11/02/07 22:01	1.0	
015	306a015	ICV	DSL_500			11/02/07 22:29	1.0	10
016	306a016	X	ICV			11/02/07 22:56	1.0	10
017	306a017	IB	CALIB			11/02/07 23:24	1.0	

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Standards used: 1=S6952 2=S7541 3=S7310 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177448260

Instrument : GC17A
Method : EPA 8015B

Begun : 11/07/07 07:00
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	311a001	X	IB				11/07/07 07:00	1.0	
002	311a002	X	CMARKER				11/07/07 07:28	1.0	1
003	311a003	CCV	DSL_500				11/07/07 07:55	1.0	2
004	311a004	CCV	MO_500				11/07/07 08:23	1.0	3
005	311a005	MS	QC413608	S	Soil	131287	11/07/07 08:59	1.0	
006	311a006	MSD	QC413609	S	Soil	131287	11/07/07 09:26	1.0	
007	311a007	X	TANKCHECK				11/07/07 10:28	1.0	
008	311a008	BLANK	QC413934		Soil	131364	11/07/07 12:09	1.0	
009	311a009	SAMPLE	199003-010		Soil	131364	11/07/07 12:36	1.0	
010	311a010	SAMPLE	199003-005		Soil	131364	11/07/07 13:03	1.0	
012	311a012	LCS	QC413935	S	Soil	131364	11/07/07 14:24	1.0	
013	311a013	MSS	198974-004	S	Soil	131364	11/07/07 14:52	1.0	
014	311a014	X	IB				11/07/07 17:43	1.0	
015	311a015	LCS	QC413607	S	Soil	131287	11/07/07 18:10	1.0	
016	311a016	MS	QC413936	S	Soil	131364	11/07/07 18:38	1.0	
017	311a017	MSD	QC413937	S	Soil	131364	11/07/07 19:06	1.0	
018	311a018	CCV	DSL_1000				11/07/07 19:33	1.0	4
019	311a019	CCV	MO_500				11/07/07 20:01	1.0	3
020	311a020	X	CCV				11/07/07 20:28	1.0	4
021	311a021	X	CCV				11/07/07 20:56	1.0	3
022	311a022	X	CMARKER				11/07/07 21:23	1.0	1

Standards used: 1=S6952 2=S7541 3=S7310 4=S6809

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227408183

Instrument : GC14B
Method : EPA 8015B

Begun : 10/10/07 11:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	283_001	IB	CALIB			10/10/07 11:03	1.0	
002	283_002	XCMARKER	C8-C50			10/10/07 11:32	1.0	1
003	283_003	ICAL	DSL_10			10/10/07 12:00	1.0	2
004	283_004	ICAL	DSL_100			10/10/07 12:29	1.0	3
005	283_005	ICAL	DSL_500			10/10/07 12:58	1.0	4
006	283_006	ICAL	DSL_1000			10/10/07 13:27	1.0	5
007	283_007	ICAL	DSL_5000			10/10/07 13:56	1.0	6
008	283_008	ICAL	DSL_7500			10/10/07 14:25	1.0	7
009	283_009	IB	CALIB			10/10/07 14:54	1.0	
010	283_010	ICV	DSL_500			10/10/07 15:23	1.0	8
011	283_011	IB	CALIB			10/10/07 15:51	1.0	
012	283_012	ICAL	MO_50			10/10/07 16:20	1.0	9
013	283_013	ICAL	MO_250			10/10/07 16:48	1.0	10
014	283_014	ICAL	MO_500			10/10/07 17:16	1.0	11
015	283_015	ICAL	MO_1000			10/10/07 17:44	1.0	12
016	283_016	XICAL	MO_5000			10/10/07 18:13	1.0	13
017	283_017	XICAL	MO_7500			10/10/07 18:41	1.0	14
018	283_018	IB	CALIB			10/10/07 19:09	1.0	
019	283_019	ICAL	HEX_5			10/10/07 19:38	1.0	15
020	283_020	ICAL	HEX_10			10/10/07 20:06	1.0	16
021	283_021	ICAL	HEX_25			10/10/07 20:34	1.0	17
022	283_022	ICAL	HEX_50			10/10/07 21:03	1.0	18
023	283_023	ICAL	HEX_100			10/10/07 21:31	1.0	19
024	283_024	ICAL	HEX_200			10/10/07 22:00	1.0	20
025	283_025	IB	CALIB			10/10/07 22:28	1.0	
026	283_026	ICAL	OTP_5			10/10/07 22:57	1.0	21
027	283_027	ICAL	OTP_10			10/10/07 23:25	1.0	22
028	283_028	ICAL	OTP_25			10/10/07 23:54	1.0	23
029	283_029	ICAL	OTP_50			10/11/07 00:22	1.0	24
030	283_030	ICAL	OTP_100			10/11/07 00:51	1.0	25
031	283_031	IB	CALIB			10/11/07 01:19	1.0	
032	283_032	ICAL	JETA_10			10/11/07 01:48	1.0	26
033	283_033	ICAL	JETA_100			10/11/07 02:16	1.0	27
034	283_034	ICAL	JETA_500			10/11/07 02:45	1.0	28
035	283_035	ICAL	JETA_1000			10/11/07 03:13	1.0	29
036	283_036	ICAL	JETA_2000			10/11/07 03:41	1.0	30
037	283_037	IB	CALIB			10/11/07 04:10	1.0	
038	283_038	X	IB			10/11/07 09:38	1.0	
039	283_039	IB	CALIB			10/11/07 10:06	1.0	
040	283_040	ICAL	MO_5000			10/11/07 10:35	1.0	13
041	283_041	XICAL	MO_7500			10/11/07 11:03	1.0	14
042	283_042	IB	CALIB			10/11/07 11:32	1.0	

Analyst: JDG Date: 10/11/07 Reviewer: LH Date: 10/11/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847 15=S7036 16=S7037 17=S7038 18=S7039 19=S7040 20=S7041 21=S6397 22=S6398 23=S6399 24=S6400 25=S6401 26=S6528 27=S6529 28=S6530 29=S6531 30=S6532

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227444644

Instrument : GC14B
Method : EPA 8015B

Begun : 11/04/07 18:44
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	308_001	X	PRIMER				11/04/07 18:44	1.0		
002	308_002	X	IB				11/04/07 19:12	1.0		
003	308_003	X	CMARKER				11/04/07 19:40	1.0	1	
004	308_004	CCV	DSL_500				11/04/07 20:09	1.0	2	
005	308_005	CCV	MO_500				11/04/07 20:37	1.0	3	
006	308_006	X	IB				11/05/07 04:16	1.0		
007	308_007	BLANK	QC413569	S	Soil	131280	11/05/07 04:44	1.0		
008	308_008	BLANK	QC413569		Soil	131280	11/05/07 05:13	1.0		
009	308_009	SAMPLE	198900-002	S	Soil	131280	11/05/07 05:41	1.0		
010	308_010	SAMPLE	198862-006	S	Soil	131280	11/05/07 06:10	1.0		
011	308_011	SAMPLE	198829-015	S	Soil	131280	11/05/07 06:38	1.0		
012	308_012	X	IB				11/05/07 07:07	1.0		
013	308_013	SAMPLE	198900-003	S	Soil	131280	11/05/07 07:35	1.0		
014	308_014	SAMPLE	198829-017	S	Soil	131280	11/05/07 08:03	1.0		
015	308_015	SAMPLE	198900-001	S	Soil	131280	11/05/07 08:32	1.0		
016	308_016	MSS	198903-001	S	Soil	131280	11/05/07 09:01	1.0		
017	308_017	X	IB				11/05/07 09:29	1.0		
018	308_018	SAMPLE	198900-004	S	Soil	131280	11/05/07 09:58	1.0		
019	308_019	X	CMARKER				11/05/07 10:26	1.0	1	
020	308_020	CCV	DSL_250				11/05/07 10:55	1.0	4	
021	308_021	CCV	MO_500				11/05/07 11:23	1.0	3	
022	308_022	SAMPLE	198864-001		Soil	131280	11/05/07 12:20	200.0		
023	308_023	SAMPLE	198843-002		Soil	131280	11/05/07 12:48	20.0		
024	308_024	X	IB				11/05/07 13:17	1.0		
025	308_025	MS	QC413571	S	Soil	131280	11/05/07 13:46	1.0		
026	308_026	MSD	QC413572	S	Soil	131280	11/05/07 14:14	1.0		
027	308_027	X	IB				11/05/07 14:43	1.0		
028	308_028	BLANK	QC413619	S	Water	131293	11/05/07 15:11	1.0		
029	308_029	SAMPLE	198908-008	S	Water	131293	11/05/07 15:40	1.0		
030	308_030	SAMPLE	198908-012	S	Water	131293	11/05/07 16:08	1.0		
031	308_031	X	IB				11/06/07 00:36	1.0		
032	308_032	CCV	DSL_1000				11/06/07 01:04	1.0	5	
033	308_033	CCV	MO_500				11/06/07 01:33	1.0	3	
034	308_034	CCV	HYFL_1250				11/06/07 02:56	1.0	6	
035	308_035	BS	QC413620	S	Water	131293	11/06/07 03:25	1.0		
036	308_036	BSD	QC413621	S	Water	131293	11/06/07 03:53	1.0		
037	308_037	BLANK	QC413619		Water	131293	11/06/07 04:22	1.0		
038	308_038	SAMPLE	198893-002		Water	131293	11/06/07 04:51	1.0		
039	308_039	SAMPLE	198859-001		Water	131293	11/06/07 05:19	1.0		
040	308_040	SAMPLE	198859-002		Water	131293	11/06/07 05:48	1.0		
041	308_041	SAMPLE	198859-003		Water	131293	11/06/07 06:16	1.0		
042	308_042	SAMPLE	198625-001	S	Soil	131086	11/06/07 06:45	50.0		2:BUNKC:12-40=7300
043	308_043	SAMPLE	198929-005		Soil	131296	11/06/07 07:13	20.0		
044	308_044	X	IB				11/06/07 07:42	1.0		
045	308_045	SAMPLE	198951-001		Soil	131287	11/06/07 08:11	1.0		
046	308_046	X	CMARKER				11/06/07 08:39	1.0	1	
047	308_047	CCV	DSL_500				11/06/07 09:08	1.0	2	
048	308_048	CCV	MO_500				11/06/07 09:36	1.0	3	
049	308_049	CCV	HYFL_1250				11/06/07 10:05	1.0	6	
050	308_050	SAMPLE	198881-012	S	Soil	131287	11/06/07 11:28	1.0		3:JP5:10-16=6900
051	308_051	SAMPLE	198881-015	S	Soil	131287	11/06/07 11:57	1.0		1:JETA:10-16=3700
052	308_052	SAMPLE	198881-016	S	Soil	131287	11/06/07 12:26	1.0		3:JP5:10-16=7500

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227444644

Instrument : GC14B
Method : EPA 8015B

Begun : 11/04/07 18:44
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	308_053	SAMPLE	198881-017	S	Soil	131287	11/06/07 12:54	1.0		
054	308_054	SAMPLE	198908-002	S	Soil	131287	11/06/07 13:24	1.0		3:JP5:10-16=5600
055	308_055	SAMPLE	198908-003	S	Soil	131287	11/06/07 13:53	1.0		4:JP5:10-16=10000
056	308_056	SAMPLE	198908-006	S	Soil	131287	11/06/07 14:21	1.0		3:JP5:10-16=5700
057	308_057	SAMPLE	198908-009	S	Soil	131287	11/06/07 14:50	1.0		
058	308_058	SAMPLE	198908-010	S	Soil	131287	11/06/07 15:19	1.0		
059	308_059	X	IB				11/06/07 15:47	1.0		
060	308_060	SAMPLE	198908-011	S	Soil	131287	11/06/07 16:16	1.0		
061	308_061	CCV	DSL_250				11/06/07 16:45	1.0	4	
062	308_062	CCV	MO_500				11/06/07 17:13	1.0	3	
063	308_063	LCS	QC413607		Soil	131287	11/06/07 18:11	1.0		
064	308_064	SAMPLE	198896-003	S	Water	131292	11/06/07 18:39	1.0		
065	308_065	SAMPLE	198896-004	S	Water	131292	11/06/07 19:08	1.0		
066	308_066	SAMPLE	198896-006	S	Water	131292	11/06/07 19:37	1.0		
067	308_067	SAMPLE	198896-007	S	Water	131292	11/06/07 20:05	1.0		
068	308_068	SAMPLE	198896-008	S	Water	131292	11/06/07 20:34	1.0		
069	308_069	SAMPLE	198814-003		Water	131332	11/06/07 21:03	1.0		
070	308_070	SAMPLE	198880-001	S	Soil	131317	11/06/07 21:31	1.0		1:JETA:10-16=3800
071	308_071	SAMPLE	198880-002	S	Soil	131317	11/06/07 22:00	1.0		
072	308_072	X	IB				11/06/07 22:28	1.0		
073	308_073	SAMPLE	198959-015		Soil	131317	11/06/07 22:57	1.0		
074	308_074	X	CMARKER				11/06/07 23:25	1.0	1	
075	308_075	CCV	DSL_1000				11/06/07 23:54	1.0	5	
076	308_076	CCV	MO_500				11/07/07 00:23	1.0	3	
077	308_077	X	CCV				11/07/07 00:52	1.0	5	
078	308_078	X	CCV				11/07/07 01:21	1.0	3	

Standards used: 1=S6952 2=S7541 3=S7310 4=S6807 5=S6809 6=S7279

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227449723

Instrument : GC14B
Method : EPA 8015B

Begun : 11/08/07 07:23
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	312_001	X	PRIMER				11/08/07 07:23	1.0	
002	312_002	X	IB				11/08/07 07:52	1.0	
003	312_003	X	CMARKER				11/08/07 08:23	1.0	1
004	312_004	CCV	DSL_500				11/08/07 08:52	1.0	2
005	312_005	CCV	MO_500				11/08/07 09:21	1.0	3
006	312_006	BLANK	QC414032		Soil	131391	11/08/07 10:07	1.0	
007	312_007	LCS	QC414033		Soil	131391	11/08/07 10:36	1.0	
008	312_008	MSS	198959-016		Soil	131391	11/08/07 11:05	1.0	
009	312_009	MS	QC414034		Soil	131391	11/08/07 11:35	1.0	
010	312_010	MSD	QC414035		Soil	131391	11/08/07 12:03	1.0	
011	312_011	SAMPLE	198959-017		Soil	131391	11/08/07 12:32	1.0	
012	312_012	SAMPLE	198959-018		Soil	131391	11/08/07 13:01	1.0	
013	312_013	SAMPLE	198959-019		Soil	131391	11/08/07 13:30	1.0	
014	312_014	SAMPLE	198959-021		Soil	131391	11/08/07 14:00	100.0	
015	312_015	X	IB				11/08/07 14:29	1.0	
016	312_016	SAMPLE	198959-035		Soil	131391	11/08/07 14:58	1.0	
017	312_017	CCV	DSL_250				11/08/07 15:27	1.0	4
018	312_018	CCV	MO_500				11/08/07 15:56	1.0	3
019	312_019	MSS	198974-004	S	Soil	131364	11/08/07 16:30	1.0	
020	312_020	SAMPLE	198974-001	S	Soil	131364	11/08/07 16:59	1.0	
021	312_021	SAMPLE	198903-007	S	Soil	131364	11/08/07 17:27	1.0	
022	312_022	X	IB				11/08/07 17:56	1.0	
023	312_023	SAMPLE	198959-023		Soil	131391	11/08/07 18:25	1.0	
024	312_024	SAMPLE	198959-025		Soil	131391	11/08/07 18:54	1.0	
025	312_025	SAMPLE	198959-029		Soil	131391	11/08/07 19:23	1.0	
026	312_026	SAMPLE	198959-031		Soil	131391	11/08/07 19:51	1.0	
027	312_027	SAMPLE	198959-032		Soil	131391	11/08/07 20:20	1.0	
028	312_028	SAMPLE	198959-028		Soil	131391	11/08/07 20:49	1.0	
029	312_029	SAMPLE	198959-030		Soil	131391	11/08/07 21:17	1.0	
030	312_030	X	CMARKER				11/08/07 21:46	1.0	1
031	312_031	CCV	DSL_1000				11/08/07 22:15	1.0	5
032	312_032	CCV	MO_500				11/09/07 01:01	1.0	3
033	312_033	X	CCV				11/09/07 01:29	1.0	5
034	312_034	X	CCV				11/09/07 01:58	1.0	3
035	312_035	SAMPLE	199042-004	S	Soil	131458	11/09/07 02:27	1.0	
036	312_036	SAMPLE	199042-005	S	Soil	131458	11/09/07 02:55	1.0	
037	312_037	SAMPLE	199039-002		Soil	131458	11/09/07 03:24	1.0	
038	312_038	SAMPLE	199039-004		Soil	131458	11/09/07 03:53	1.0	
039	312_039	SAMPLE	199039-005		Soil	131458	11/09/07 04:22	1.0	
040	312_040	X	IB				11/09/07 04:51	1.0	
041	312_041	SAMPLE	199039-003		Soil	131458	11/09/07 05:20	1.0	
042	312_042	X	CMARKER				11/09/07 05:48	1.0	1
043	312_043	CCV	DSL_500				11/09/07 06:17	1.0	2
044	312_044	CCV	MO_500				11/09/07 06:46	1.0	3
045	312_045	SAMPLE	198959-021		Soil	131391	11/09/07 07:17	50.0	
046	312_046	X	IB				11/09/07 07:47	1.0	
047	312_047	LCS	QC414172	S	Water	131425	11/09/07 08:16	1.0	
048	312_048	MSS	199026-005	S	Water	131425	11/09/07 08:45	1.0	
049	312_049	MS	QC414173	S	Water	131425	11/09/07 09:14	1.0	
050	312_050	MSD	QC414174	S	Water	131425	11/09/07 09:43	1.0	
051	312_051	SAMPLE	199002-001		Water	131425	11/09/07 10:12	1.0	
052	312_052	SAMPLE	199002-002		Water	131425	11/09/07 10:41	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227449723

Instrument : GC14B
Method : EPA 8015B

Begun : 11/08/07 07:23
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	312_053	SAMPLE	199026-001	S	Water	131425	11/09/07 11:10	1.0	
054	312_054	SAMPLE	199026-002	S	Water	131425	11/09/07 11:39	1.0	
055	312_055	X	IB				11/09/07 12:08	1.0	
056	312_056	SAMPLE	199026-003	S	Water	131425	11/09/07 12:37	1.0	
057	312_057	CCV	DSL_250				11/09/07 13:06	1.0	4
058	312_058	CCV	MO_500				11/09/07 13:35	1.0	3
059	312_059	CCV	OTP_50				11/09/07 14:04	1.0	6
060	312_060	BLANK	QC414550		Soil	131514	11/09/07 15:14	1.0	
061	312_061	BLANK	QC414550	S	Soil	131514	11/09/07 15:42	1.0	
062	312_062	MSS	199009-001		Soil	131514	11/09/07 16:11	1.0	
063	312_063	SAMPLE	199009-002		Soil	131514	11/09/07 16:40	1.0	
064	312_064	SAMPLE	199009-004		Soil	131514	11/09/07 17:09	1.0	
065	312_065	SAMPLE	199009-003		Soil	131514	11/09/07 17:38	1.0	
066	312_066	SAMPLE	199030-017		Soil	131514	11/09/07 18:06	1.0	
067	312_067	X	IB				11/09/07 18:35	1.0	
068	312_068	MS	QC414552		Soil	131514	11/09/07 19:05	1.0	
069	312_069	MSD	QC414553		Soil	131514	11/09/07 19:33	1.0	
070	312_070	X	IB				11/09/07 20:02	1.0	
071	312_071	LCS	QC414551	S	Soil	131514	11/09/07 20:31	1.0	
072	312_072	X	CMARKER				11/09/07 21:00	1.0	1
073	312_073	CCV	DSL_1000				11/09/07 21:29	1.0	5
074	312_074	CCV	MO_500				11/09/07 21:58	1.0	3
075	312_075	CCV	OTP_50				11/09/07 22:27	1.0	6
076	312_076	X	CCV				11/09/07 22:56	1.0	5
077	312_077	X	CCV				11/09/07 23:24	1.0	3
078	312_078	X	CCV				11/09/07 23:53	1.0	6
079	312_079	SAMPLE	199009-005		Soil	131514	11/10/07 00:22	1.0	
080	312_080	SAMPLE	199009-006		Soil	131514	11/10/07 00:51	1.0	
081	312_081	SAMPLE	199009-007		Soil	131514	11/10/07 01:20	1.0	
082	312_082	SAMPLE	199009-008		Soil	131514	11/10/07 01:49	1.0	
083	312_083	SAMPLE	199009-009		Soil	131514	11/10/07 02:18	1.0	
084	312_084	X	IB				11/10/07 02:47	1.0	
085	312_085	SAMPLE	199009-010		Soil	131514	11/10/07 03:16	1.0	
086	312_086	SAMPLE	199009-012		Soil	131514	11/10/07 03:45	1.0	
087	312_087	SAMPLE	199009-013		Soil	131514	11/10/07 04:13	1.0	
088	312_088	SAMPLE	199009-011		Soil	131514	11/10/07 04:42	1.0	
089	312_089	X	IB				11/10/07 05:11	1.0	
090	312_090	SAMPLE	199060-005		Soil	131514	11/10/07 05:40	1.0	
091	312_091	X	CMARKER				11/10/07 06:09	1.0	1
092	312_092	CCV	DSL_500				11/10/07 06:38	1.0	2
093	312_093	CCV	MO_500				11/10/07 07:06	1.0	3
094	312_094	CCV	OTP_50				11/10/07 07:35	1.0	6
095	312_095	X	CCV				11/10/07 08:04	1.0	2
096	312_096	X	CCV				11/10/07 08:33	1.0	3
097	312_097	X	CCV				11/10/07 09:02	1.0	6

Standards used: 1=S6952 2=S7541 3=S7310 4=S7540 5=S6809 6=S6922

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 877367938

Instrument : GC26B
Method : EPA 8015B

Begun : 09/12/07 12:18
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
004	255b004	CMARKER	C10-C50			09/12/07 12:18	1.0	1
005	255b005	CCV	DSL_500			09/12/07 12:43	1.0	2
006	255b006	CCV	MO_500			09/12/07 13:08	1.0	3
008	255b008	IB	CALIB			09/12/07 18:28	1.0	
009	255b009	X	ICAL			09/12/07 18:53	1.0	4
010	255b010	ICAL	DSL_100			09/12/07 19:18	1.0	5
011	255b011	ICAL	DSL_500			09/12/07 19:43	1.0	6
012	255b012	ICAL	DSL_1000			09/12/07 20:09	1.0	7
013	255b013	ICAL	DSL_5000			09/12/07 20:34	1.0	8
014	255b014	ICAL	DSL_7500			09/12/07 20:59	1.0	9
015	255b015	IB	CALIB			09/12/07 21:25	1.0	
016	255b016	ICV	DSL_500			09/12/07 21:50	1.0	10
017	255b017	X	ICV			09/12/07 22:15	1.0	10
018	255b018	IB	CALIB			09/12/07 22:40	1.0	
019	255b019	ICAL	MO_50			09/12/07 23:06	1.0	11
020	255b020	ICAL	MO_250			09/12/07 23:32	1.0	12
021	255b021	ICAL	MO_500			09/12/07 23:57	1.0	13
022	255b022	ICAL	MO_1000			09/13/07 00:22	1.0	14
023	255b023	ICAL	MO_5000			09/13/07 00:48	1.0	15
024	255b024	X	MO_7500			09/13/07 01:13	1.0	16
025	255b025	IB	CALIB			09/13/07 01:38	1.0	
026	255b026	ICAL	HEX_5			09/13/07 02:04	1.0	17
027	255b027	ICAL	HEX_10			09/13/07 02:29	1.0	18
028	255b028	ICAL	HEX_25			09/13/07 02:54	1.0	19
029	255b029	ICAL	HEX_50			09/13/07 03:20	1.0	20
030	255b030	ICAL	HEX_100			09/13/07 03:45	1.0	21
031	255b031	X	HEX_200			09/13/07 04:10	1.0	22
033	255b033	ICAL	DSL_10			09/13/07 12:16	1.0	4

CP 09/13/07 : dsl 10 point re-run at end of sequence, first run mis-inject. Mo level 7500 and hex level 200 are not in use.

Analyst: CP Date: 09/13/07 Reviewer: LH Date: 09/13/07

Standards used: 1=S6952 2=S6808 3=S6790 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617 11=S6848 12=S6849 13=S6850 14=S6851 15=S6846 16=S6847 17=S7036 18=S7037 19=S7038 20=S7039 21=S7040 22=S57041

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 877378530

Instrument : GC26B
Method : EPA 8015B

Begun : 09/19/07 20:25
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
021	259b021	X	CMARKER			09/19/07 20:25	1.0	1
022	259b022	IB	CALIB			09/19/07 20:50	1.0	
023	259b023	ICAL	DSL_10			09/19/07 21:16	1.0	2
024	259b024	ICAL	DSL_100			09/19/07 21:41	1.0	3
025	259b025	ICAL	DSL_500			09/19/07 22:07	1.0	4
026	259b026	ICAL	DSL_1000			09/19/07 22:32	1.0	5
027	259b027	ICAL	DSL_5000			09/19/07 22:58	1.0	6
028	259b028	ICAL	DSL_7500			09/19/07 23:23	1.0	7
029	259b029	IB	CALIB			09/19/07 23:48	1.0	
030	259b030	ICV	DSL_500			09/20/07 00:14	1.0	8

ZA 09/24/07 : sequence in EZChrom is 262, but sequence in LIMS is 259 (file name not changed when sequence started). Method name reflects EZChrom sequence name.

Analyst: ZA Date: 09/24/07 Reviewer: LH Date: 10/19/07

Standards used: 1=S4049 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 877444765

Instrument : GC26B
Method : EPA 8015B

Begun : 11/04/07 20:45
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
005	308b005	X	CMARKER				11/04/07 20:45	1.0	1
006	308b006	CCV	DSL_500				11/04/07 21:10	1.0	2
007	308b007	CCV	MO_500				11/04/07 21:35	1.0	3
008	308b008	X	IB				11/05/07 03:55	1.0	
009	308b009	LCS	QC413570	S	Soil	131280	11/05/07 04:19	1.0	
010	308b010	SAMPLE	198851-002	S	Water	131266	11/05/07 04:44	1.0	
011	308b011	SAMPLE	198851-003	S	Water	131266	11/05/07 05:09	1.0	
012	308b012	SAMPLE	198851-004	S	Water	131266	11/05/07 05:34	1.0	
013	308b013	SAMPLE	198698-002	S	Water	131266	11/05/07 05:59	1.0	
014	308b014	SAMPLE	198698-003	S	Water	131266	11/05/07 06:24	1.0	
015	308b015	SAMPLE	198698-004	S	Water	131266	11/05/07 06:49	1.0	
016	308b016	MS	QC413571	S	Soil	131280	11/05/07 07:14	1.0	
017	308b017	MSD	QC413572	S	Soil	131280	11/05/07 07:39	1.0	
018	308b018	X	IB				11/05/07 08:04	1.0	
019	308b019	SAMPLE	198698-005	S	Water	131266	11/05/07 08:29	1.0	
020	308b020	X	CMARKER				11/05/07 08:54	1.0	1
021	308b021	CCV	DSL_250				11/05/07 09:19	1.0	4
022	308b022	CCV	MO_500				11/05/07 09:44	1.0	3
023	308b023	CCV	DSL_250				11/05/07 11:39	1.0	4
024	308b024	CCV	MO_500				11/05/07 12:04	1.0	3

Standards used: 1=S7307 2=S7541 3=S7310 4=S6807

REPORTING SUMMARY FOR 198903 GCSV Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
198903-001	GC14B	11/05/07 09:01	1.0	+	+	+	
198903-002	GC15B	11/06/07 03:31	10.0				
198903-002	GC11A	11/06/07 10:43	1.0	+	+	+	
198903-003	GC15B	11/06/07 03:58	20.0				
198903-003	GC11A	11/06/07 11:11	5.0	+	+	+	
198903-006	GC15B	11/06/07 10:02	1.0	+	+	+	
198903-007	GC14B	11/08/07 17:27	1.0	+	+	+	
QC413569	GC14B	11/05/07 04:44	1.0	+	+	+	
QC413569	GC14B	11/05/07 05:13	1.0				
QC413570	GC26B	11/05/07 04:19	1.0	+		+	
QC413571	GC26B	11/05/07 07:14	1.0				
QC413571	GC14B	11/05/07 13:46	1.0	+		+	
QC413572	GC26B	11/05/07 07:39	1.0				
QC413572	GC14B	11/05/07 14:14	1.0	+		+	
QC413624	GC15B	11/06/07 07:42	1.0	+	+	+	
QC413624	GC15B	11/06/07 19:23	1.0				
QC413625	GC15B	11/06/07 07:13	1.0	+		+	
QC413626	GC15B	11/06/07 08:37	1.0	+		+	
QC413626	GC11A	11/06/07 12:08	1.0				
QC413627	GC15B	11/06/07 09:05	1.0	+		+	
QC413627	GC11A	11/06/07 12:36	1.0				
QC413934	GC17A	11/07/07 12:09	1.0				
QC413934	GC11A	11/07/07 19:53	1.0	+	+	+	
QC413935	GC17A	11/07/07 14:24	1.0	+		+	
QC413936	GC17A	11/07/07 18:38	1.0	+		+	
QC413937	GC17A	11/07/07 19:06	1.0	+		+	

SAMPLE PREPARATION SUMMARY

Batch # : 131280
Started By : SFL
Method : SHAKER TABLE
Spike #1 ID : S7552

Prep Date : 02-NOV-2007
SOP Version : TEH1_rv9
Spike #2 ID : S7448

Analysis : TEH
Finished By : ECB
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198829-007		Soil	50.06	5	1	0.09988		1			3630C	TEHM	
198829-010		Soil	50.31	5	1	0.09938		1			3630C	TEHM	
198829-015		Soil	50.19	5	1	0.09962		1			3630C	TEHM	
198829-017		Soil	50.06	5	1	0.09988		1			3630C	TEHM	
198843-001		Soil	49.97	5	1	0.1001		1				TEHM	spilled a few mls. when pouring into KD. possible sharpie contam.
198843-002		Soil	50.32	5	1	0.09936		1				TEHM	
198862-006		Soil	50.35	5	1	0.0993		1			3630C	TEHM	
198864-001		Soil	49.94	10	1	0.2002		1				TEHM	poss 2x surr, would not conc. further due to cxloudy suspended solids in sample
198874-001		Soil	50.02	5	1	0.09996		1				TEHM	
198874-002		Soil	50.15	5	1	0.0997		1				TEHM	
198874-003		Soil	50	5	1	0.1000		1				TEHM	
198874-004		Soil	50.3	5	1	0.0994		1				TEHM	
198874-005		Soil	50.05	5	1	0.0999		1				TEHM	
198874-006		Soil	50.02	5	1	0.09996		1				TEHM	
198900-001		Soil	50.03	5	1	0.09994		1			3630C	TEHM	
198900-002		Soil	50.15	5	1	0.0997		1			3630C	TEHM	
198900-003		Soil	50.28	5	1	0.09944		1			3630C	TEHM	
198900-004		Soil	50.09	5	1	0.09982		1			3630C	TEHM	
198903-001		Soil	50.29	5	1	0.09942		1			3630C	TEHM	mss
198910-001		Soil	50.3	5	1	0.0994		1			3630C	TEHM	
QC413569	BLANK	Soil	50.27	5	1	0.09946		1			3630C		
QC413570	LCS	Soil	50.31	5	1	0.09938		1	1		3630C		
QC413571	MS	Soil	50.03	5	1	0.09994		1	1		3630C		
QC413572	MSD	Soil	50.39	5	1	0.09923		1	1		3630C		

Analyst: ATL Date: 11/06/07 Reviewer: LH Date: 11/06/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 48

LIMS Batch No: 13280
LIMS Analysis TEH
Date Extracted: 11/2/07

Extraction Method:
☑ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198829-007	50.06	5.0	X	
	10	50.31			
	15	50.19			
	17	50.02			
★ 5	198843-001	49.97			spilled a few mLs when pouring into KD set-up; possible contam.
	02	50.32			
	198862-006	50.35		X	
	198864-001	49.94	10.0		MSS. 2x surr. spike; extract, would not conc.
	198874-001	50.02	5.0		
10	02	50.15			
	03	50.00			
	04	50.30			
	05	50.05			
	06	50.02			
15	198900-001	50.63		X	
	02	50.15			
	03	50.28			
	04	50.09			
	198903-001	50.29			MSS
20	198910-001	50.30			
	MB QCA13569	50.27			
	LCS 70	50.31			
	MS 71	50.03			
	MSD 72	50.39			
					11/2/07

★ very dark, thick extracts

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47158737	RL 11/2/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47073734	
1.0 mL of Surrogate solution was added to all samples	57552A	
1.0 mL of Matrix Spiking solution was added to all spikes	57448C	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM47092	
Acetone	EM47154	
Samples were: ☐ sonicated 3 times ☑ placed on shaker table at:	1800	
taken off shaker table at:	2000	11/2/07 KRS
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47073734	ERB 11/3/07
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	

11/2/07
Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/3/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: ECB / SFL
Cleanup Date: 11/3/07

Benchbook # **BK 2585**
Page 100

	Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
	198829-007	13280	1.0	1.0	~~MSS~~ ECB 11/3/07
	-010				
	-015				
	-017				~~MSS~~ ECB 11/3/07
5	198892-002				
	198900-001				
	02				
	03				
	04				
10	198903-001				MSS
	198910-001				
	MB QC413569				
	LCS 70				
	MS 71				
15	MSD 72				
20					
25					
30					

11/3/07

☐ Extracts were cleaned up using C&T assembled ___ g columns
☑ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 4.0 mL CH_2Cl_2
Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
N/A	ECB 11/3/07
SP9092	
EM47177	
✓	

11/3/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

11/3/07
Reviewed by / Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
198838-001A	30.45	PCB		
-002	30.04			
-003	30.19			
-004	30.32			
-005	30.47			
-006	30.13			
-007	30.15			
-008	30.27			
-009	30.31			
-010	30.10			
-011	30.37			MSS
-012	30.20			
-013	30.09			
-014	30.16			
-015	30.11			
-016	30.24			
-017	30.15			
-018	30.21			
-019	30.06			
MB	30.24			EM471587 37
LCS	30.23			
MS	30.36			198838-011A
MSD	30.30			
198837-001A	50.11	TEH		KML 10/31/07
				KML 10/3/07
BLANK	30.04	PCB		
LCS	30.01			
				KR 10/31/07
198843-001A	49.97			
-002	50.32	TEHM		ECB 10/31/07 1312800
198837-001A	30.00			14D10X
				ECB 10/31/07
198864-001A	49.94	TEHM		13128D
				ECB 10/31/07

Continued on Page

Read and Understood By

Signed Date Sign Date

Project SOIL ALIQUOT

BK 2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
198862-002	50.44	TEHM		ALIASED 198521-019A
↓ -006	50.35	↓	131280	ALIASED 198547-003A
			ECB 10/31/07	
198870-006	30.06	PCB		COMP 001,002,005,004,005 @ 10g all letter A each
-012	30.08			003,003,009,010,011 @ 10g all letter A each
-018	30.12			013,014,015,016,017 @ 10g all letter A each
-024	30.06			019,020,021,022,023 @ 10g all letter A each
-030	30.01			025,026,027,028,029 @ 10g all letter A each
-036	30.10			031,032,033,034,035 @ 10g all letter A each
-040	30.42			037,050,031 @ 20g all letter A each
-046	30.09			041,042,043,044,045 @ 10g all letter A each
-052	30.05			047,048,049,050,051 @ 30g each MSS all letter A
-058	30.12			053,054,055,050,057 @ 10g all letter A each
-064	30.32			059,060,061,062,063 @ 10g all letter A each
-068	30.35			005,006,007 @ 20g all letter A each
-074	30.08			069,070,071,072,073 @ 10 all letter A g each
↓ -078	30.42			075,076,071 @ 20g all letter A each
MB	30.24			EM47150737
LCS	30.28			↓
MS	30.43			198870-052
MSD	30.10	↓		↓
			KML 10/31/07	
198873-001A	30.00	PCB		
↓ -002	30.02	↓		
↓ -003 ↓	30.09			
			ECB 11/1/07	
198874-001A	50.02	TEH	131280	
-002	50.15		↓	
-003	50.00			
-004	50.30			
-005	50.05			
-006	50.02			
↓ -007 ↓	30.11	↓		COMP -001,002,003,004,005,006 all letter A @ 10 each
		PCB	ECB 11/1/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK 2588111

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
198627-001L	30.17	8081		MSS
MS -	30.07	↓		198627-001L
MSD	30.33			↓
			ECB 11/1/07	
198897-001	30.33	8081		ALIASED 198604-29
198897-002	30.10	↓		ALIASED 198604-30A
			ECB 11/1/07	
198899-001A	50.43	TEHM		
↓ -002 ↓	50.49	↓		
↓ -003 ↓	50.43		KML 11/1/07	
198829-007A	50.06	TEHM	13280	
↓ -010 ↓	50.31		↓	
↓ -015D	50.19			
↓ -017 ↓	50.06	↓		
			KML 11/1/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
198903-001 N	50.29	TEHM	131280	MSS
-002 G	50.26			
-003 ↓	50.28			
-006 ↓	50.34			
MB	50.27		131280	EM47,58737
LCS	50.31			↓
MS	50.03			198903-001N
MSD	50.39			↓

KMC 11/2/07

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
198880-001 G	30.01	SIM		
-002 A	30.08		ECB 11/2/07	
198907-001 A	30.22	PCB		
-002 V	30.27		ECB 11/2/07	
198829-015 D	30.02	8270		
MB	30.33		EM47158737	
LCS	30.08		198829-015 D	
MS	30.05		SFH 11/2/07	
MSD	30.02			
198906-001 A	30.32	PCB		
-002	30.16			
-003	30.21			
-004	30.13			
-005 V	30.20		ECB 11/2/07	
198910-001 A	50.30	TEHM	131280	
			ECB 11/2/07	
189900-005 A	50.04	TEHM	Comp -001,002,003,004 ALL EXTRACT AT @20g EACH	
			ECB 11/2/07	
189900-001	50.03	TEHM	131280	
-002	50.15			
-003	50.28			
-004	50.09		ECB 11/2/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE PREPARATION SUMMARY

Batch # : 131296
Started By : MDW
Method : SHAKER TABLE
Spike #1 ID : S7552
Prep Date : 04-NOV-2007
SOP Version : TEH1_rv9
Spike #2 ID : S7578
Analysis : TEH
Finished By : MDW
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198903-002		Soil	50.26	5	1	0.09948		1			3630C	TEHM	
198903-003		Soil	50.28	5	1	0.09944		1			3630C	TEHM	
198903-006		Soil	50.34	5	1	0.09932		1			3630C	TEHM	
198929-002		Soil	49.83	5	1	0.1003		1				TEHM	
198929-003		Soil	50.28	5	1	0.09944		1				TEHM	
198929-005		Soil	49.97	5	1	0.1001		1				TEHM	
198929-006		Soil	49.74	5	1	0.1005		1				TEHM	
198956-001		Soil	50.48	5	1	0.09905		1			3630C	TEHM	mss
198956-003		Soil	49.54	5	1	0.1009		1			3630C	TEHM	
198956-004		Soil	49.66	5	1	0.1007		1			3630C	TEHM	
198956-005		Soil	49.69	5	1	0.1006		1			3630C	TEHM	
198956-006		Soil	50.44	5	1	0.09913		1			3630C	TEHM	
198956-007		Soil	50.24	5	1	0.09952		1			3630C	TEHM	
198956-008		Soil	50.35	5	1	0.0993		1			3630C	TEHM	
198956-009		Soil	49.55	5	1	0.1009		1			3630C	TEHM	
198956-010		Soil	50.49	5	1	0.09903		1			3630C	TEHM	
198956-012		Soil	49.6	5	1	0.1008		1			3630C	TEHM	
198956-013		Soil	49.64	5	1	0.1007		1			3630C	TEHM	
198956-014		Soil	50.23	5	1	0.09954		1			3630C	TEHM	
198956-015		Soil	49.59	5	1	0.1008		1			3630C	TEHM	
QC413624	BLANK	Soil	50.02	5	1	0.09996		1			3630C		
QC413625	LCS	Soil	50.41	5	1	0.09919		1	1		3630C		
QC413626	MS	Soil	50.28	5	1	0.09944		1	1		3630C		
QC413627	MSD	Soil	50.09	5	1	0.09982		1	1		3630C		

Analyst: JDG Date: 11/08/07 Reviewer: LH Date: 11/08/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 50

LIMS Batch No: 13296
LIMS Analysis TEHM
Date Extracted: 11/4/07

Extraction Method:
☒ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198903-002	50.26	5.0	X	
	003	50.28			
	006	50.34			
	198929-002	49.83			
5	003	50.28			
	005	49.97			
	006	49.74			
	198956-001	50.48		X	MSS
	003	49.54			
10	004	49.66			
	005	49.69			
	006	50.44			
	007	50.24			
	008	50.35			
15	009	49.55			
	010	50.49			
	012	49.60			
	013	49.64			
	014	50.23			
20	015	49.59			
	MB QC413624	50.02			
	LCS 5	50.41			
	MS 6	50.28			
	MSD 7	50.09			
					~ 11/4/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47158737	~ 11/4/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47073734	
1.0 mL of Surrogate solution was added to all samples	S7552B	
1.0 mL of Matrix Spiking solution was added to all spikes	S7578A	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM47158	
Acetone	EM47156	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	~~8:30~~ 1530	
taken off shaker table at:	~~5:30~~ 1730	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47073734	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	↓

~ 11/4/07
Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/4/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: MW
Cleanup Date: 11/4/07

Benchbook # **2611**
Page 3

	Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
	198903-002	131296	1.0	1.0	
	-003				
	-006				
	198956-001				MSS
5	-003				
	-004				
	-005				
	-001				
	-007				
10	-008				
	-009				
	-010				
	-012				
	-013				
15	-014				
	-015				
	MB QC413624				
	LCS 5				
	MS 6				198956-001
20	MSD 7				
25					
30					

11/4/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ___ g columns	N/A	11/4/07
☒ Extracts were cleaned up using 1.0 g cartridges	SP9092	
Extracts were eluted with 4.0 mL CH_2Cl_2	B M47177	
Concentrated to volumes as noted above	✓	

11/4/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

11/4/07
Reviewed by / Date

Sample ID	Weight (g)	Analysis	Batch #	Comments
198903-001 N	50.29	TEHM		MSS
-002 G	50.26			
-003	50.28			
-006	50.34			
MB	50.27			EM47,58737
LCS	50.31			↓
MS	50.03			198903-001N
MSD	50.39			↓
			KML 11/2/07	
198910-001A	30.07	8270SIM		
			LCB 11/2/07	
198743-007A	30.03	8270-SIM		
			KR 11/2/07	~~CF INTAKE~~
198951-001	49.72	TEH		ALIASED ~~198951-001A~~ 198548-012A
			SFL 11/3/07	
198929-002 A	49.83	TEH	131296	
003 B	50.28			
005 A	49.97			
006 A	49.74			
198956-001 X (J)	50.48			MSS
-003 A	49.54			
-004	49.66			
-005	49.69			
-006	50.44			
-007	50.24			
-008	50.35			
-009	49.55			
-010	50.49			
-012	49.69			
-013	49.64			
-014	50.23			
-015	49.59			
MS	50.28			198956-001 J
MSD	50.09			↓ J
			11/9/07	~~Continued on Page~~

Read and Understood By RFW 11/4/07

Signed ✓ Date 11/9/07 RFW 11/4/07 Signed Date

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
198903-001 N	50.29	TEHM		MSS
-002 G	50.26		131296	
-003	50.28			
-006	50.34			
MB	50.27			EM47158737
LCS	50.31			↓
MS	50.03			198903-001N
MSD	50.39			↓

xml 11/2/07

Continued on Page

Read and Understood By

Signed Date Signed Date

116 Project Soil Aliquot BK2580

Continued from Page

Sample ID	Weight	Analysis	Batch #	Comments
MB	50.02	TEH	131296	EM471587377
LCS	50.41	↓		LL
			~~10/14/07~~ 11 REV 11/14/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE PREPARATION SUMMARY

Batch # : 131364
Started By : KML
Method : SHAKER TABLE
Spike #1 ID : S7552
Prep Date : 06-NOV-2007
SOP Version : TEH1_rv9
Spike #2 ID : S7578
Analysis : TEH
Finished By : KML
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198903-007		Soil	49.97	5	1	0.1001		1			3630C	TEHM	
198974-001		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
198974-002		Soil	50.01	5	1	0.09998		1			3630C	TEHM	
198974-003		Soil	50.3	5	1	0.0994		1			3630C	TEHM	
198974-004		Soil	50.32	5	1	0.09936		1			3630C	TEHM	mss
198986-028		Soil	50.1	5	1	0.0998		1				TEHM	
198986-029		Soil	50.23	5	1	0.09954		1				TEHM	
198986-030		Soil	50.05	5	1	0.0999		1				TEHM	
198986-033		Soil	50.11	5	1	0.09978		1				TEHM	
198986-034		Soil	50.12	5	1	0.09976		1				TEHM	
198986-035		Soil	50.06	5	1	0.09988		1				TEHM	
198986-036		Soil	50.33	5	1	0.09934		1				TEHM	
198986-037		Soil	50.19	5	1	0.09962		1				TEHM	
198986-077		Soil	50.12	5	1	0.09976		1				TEHM	
199003-005		Soil	49.72	5	1	0.1006		1				TEHM	
199003-010		Soil	50.16	5	1	0.09968		1				TEHM	
QC413934	BLANK	Soil	50.18	5	1	0.09964		1			3630C		
QC413935	LCS	Soil	50.1	5	1	0.0998		1	1		3630C		
QC413936	MS	Soil	50	5	1	0.1000		1	1		3630C		
QC413937	MSD	Soil	50.06	5	1	0.09988		1	1		3630C		

Analyst: JDG Date: 11/08/07 Reviewer: LH Date: 11/08/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 52

LIMS Batch No: 131364
LIMS Analysis TEHM
Date Extracted: 11/6/07

Extraction Method:
☒ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198974-001 A	50.02	5.0	X	
	-002	50.01			
	-003	50.30			
	-004	50.32			MSS
5	198986-028 A	50.10			
	-029	50.23			
	-030	50.05			
	-033	50.11			
	-034	50.12			
10	-035	50.06			
	-036	50.33			
	-037	50.19			
	-077	50.12			
	MB QC413934	50.18		X	
15	LCS 935	50.10			
	MS 936	50.00			
	MSD 937	50.06			
	198903-007	49.97		X	+
	199003-005	49.72			
20	010	50.16			
					KML 11/7/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47158.737	KML 11/6/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47073734	
1.0 mL of Surrogate solution was added to all samples	57552 B	
1.0 mL of Matrix Spiking solution was added to all spikes	07578 A	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM47158	
Acetone	EM47156	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	1425 / 2155 +	
taken off shaker table at:	1725 / 0010 + (11/7/07)	RFW 11/6/07
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47073734	KML 11/7/07
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓ HOOD	

11/6/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/7/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: KML
Cleanup Date: 11/7/07

Benchbook # **2611**
Page 7

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
198903-001	131364	1.0	1.0	
198974-001	↓	↓	↓	
-002				
-003				
-004				MSS
MB QC413934				
LCS 935				
MS 936				
MSD 937	↓	↓	↓	
MS QC413608	131287	1.0	1.0	
MSD 9	↓	↓	↓	

RFW 11/7/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	NA	KML 11/7/07
☒ Extracts were cleaned up using 1.0 g cartridges	SP9092	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	EM47178	
Concentrated to volumes as noted above	✓	

Mr M Lind 11/7/07
Extraction Chemist / Date

Continued from page —
Continued on page —

KZR 11/7/07
Reviewed by / Date

Sample ID	Weight (g)	Analysis	Batch #	Comments
198970-004	30.25	PCB		Comp 001A, 002A, 003A @ 20g each
-010	30.45			-005, 006, 007, 008, 009 all Water A @ 15g each
-014	30.12			-011A, 012A, 013A @ 20g each
-020	30.07			-015, 016, 017, 018, 019 all Water A @ 15g each
-026	30.22			-021, 022, 023, 024, 025 @ 15 g each all Water A
-032	30.32			MSS -027, 028, 029, 030, 031 all Water A @ 25g each
MS	30.24			198970-032
MSD	30.10			
				KML 11/5/07
198880-001G	50.14	TEHM		
002A	50.08			
				RFW 11/5/07
198984-001A	50.04	TEHM		
				ECB 11/6/07
198984-001A	30.05	SIM		
				ECB 11/6/07
198974-001A	50.02	TEHM	131364	
-002	50.01			
-003	50.30 ~~50.02~~			~~MSS~~ ECB 11/6
-004B	~~50.30~~ 50.37			MSS
MB	50.18	TEHM	131364	EM47 158737
LCS	50.10			198974-~~003A~~ 004B
MS	50.11			
MSD	50.00			
				ECB 11/6/07
198974-001A	30.37	8270 SIM		
-002	30.06			~~MSS~~ ECB 11/6
-003	30.05			
-004B	30.16			MSS
MB	30.44			EM47 158737
LCS	~~30.13~~ ~~30.07~~ 30.25			EM47 158737
MS	~~30.37~~ ~~30.07~~ 30.30			~~EM47 158737~~ ECB 11/6
MSD	~~30.07~~ ~~30.37~~ 30.27			198974-002A
				ECB 11/6

Continued on Page

Signed 11/06/07 Date

Read and Understood By

Signed Date

120 Project SOIL ALIQUOT BK-2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
198974-001 A	30.18	8081		
-002	30.02			MSS
-003	30.13			
-004 B	30.19			~~MS, ECB 11/6~~
MB	30.43			EM47158737
LCS	30.07			
~~MSD~~ MS	30.27			~~EM47158737~~ ECB
~~MS~~ MSD	30.37			198974-004B
				ECB 11/6
198986-093A	30.11	8270		
				ECB 11/6
198986-~~028~~ 28 A	50.10	TEHM	131364	
-029	50.23			
-030	50.05			
-033	50.11			
-034	50.12			
-035	50.~~06~~ 86			
-036	50.33			
-037	50.19			
-077	50.12			
				ECB 11/6
198979-002A	30.01	SLM		
-003	30.35			
-005	30.24			
-006	30.10			
				SFH 11/6/07
198974-~~004~~ 4 A	50.32	TEHM	131364	
MS	50.00			198974-004A
MSD	50.06			
				ECB 11/6

Continued on Page

Signed 11/7/07 Date

Read and Understood By

Signed Date

: 00192

Project Soil Aliquot

BK2588

Continued from Page

Sample ID	wt/ant(g)	Analysis	Batch #	Comments
198959-016A	50.40	TEHM		MSS
-017	50.23			
-018	50.05			
-019	50.20			
-020	50.42			
-021	50.18			
-022	50.48			
-023	50.02			
-024	50.22			
-025	50.38			
-026	50.07			
-027	50.23			
-028	50.18			
-029	50.15			
-030	50.46			
-031	50.05			
-032	50.35			
-033	50.39			
-034	50.05			
-035	50.22			
MB	50.09			EM47158737
LCS	50.14			↓
MS	50.21			198959-016A
MSD	50.43			↓
			RFW 11/6/07	
198975-001A	30.07	PCB		
2	29.77	↓		
3	29.95			
				SSBW 11/7/07
198903-007G	49.97	TEHM	131364	
199003-005	49.72			comp 001A, 002A, 003A, 004A @ 30 psi each
↓ 010	50.16	↓	↓	comp 006A, 007A, 008A, 009A @ 30 psi each
				RFW 11/6/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd.

Volatile Organics
Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX360RB361	Batch#:	131356
Lab ID:	198903-004	Sampled:	11/01/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.07
Chloromethane	ND	1.0	0.09
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.1
Acetone	1.3 J	10	0.3
Freon 113	ND	2.0	0.07
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	0.3 J	10	0.1
Carbon Disulfide	ND	0.5	0.08
MTBE	ND	0.5	0.04
trans-1,2-Dichloroethene	ND	0.5	0.09
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.07
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.06
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	0.06
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.07
4-Methyl-2-Pentanone	ND	10	0.06
cis-1,3-Dichloropropene	ND	0.5	0.08
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.07
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.07
1,3-Dichloropropane	ND	0.5	0.05
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.09
Chlorobenzene	ND	0.5	0.06
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.06
m,p-Xylenes	ND	0.5	0.2
o-Xylene	ND	0.5	0.06
Styrene	ND	0.5	0.06
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.07
1,1,2,2-Tetrachloroethane	ND	0.5	0.05
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.06
Bromobenzene	ND	0.5	0.04
1,3,5-Trimethylbenzene	ND	0.5	0.08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

44.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX360RB361	Batch#:	131356
Lab ID:	198903-004	Sampled:	11/01/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.09
4-Chlorotoluene	ND	0.5	0.09
tert-Butylbenzene	ND	0.5	0.06
1,2,4-Trimethylbenzene	ND	0.5	0.08
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.09
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	2.0	0.8
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	112	74-137
Toluene-d8	103	80-120
Bromofluorobenzene	104	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

44.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	TB110107	Batch#:	131356
Lab ID:	198903-005	Sampled:	11/01/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.07
Chloromethane	ND	1.0	0.09
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.1
Acetone	0.8 J	10	0.3
Freon 113	ND	2.0	0.07
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.08
MTBE	ND	0.5	0.04
trans-1,2-Dichloroethene	ND	0.5	0.09
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.07
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.06
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	0.06
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.07
4-Methyl-2-Pentanone	ND	10	0.06
cis-1,3-Dichloropropene	ND	0.5	0.08
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.07
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.07
1,3-Dichloropropane	ND	0.5	0.05
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.09
Chlorobenzene	ND	0.5	0.06
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.06
m,p-Xylenes	ND	0.5	0.2
o-Xylene	ND	0.5	0.06
Styrene	ND	0.5	0.06
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.07
1,1,2,2-Tetrachloroethane	ND	0.5	0.05
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.06
Bromobenzene	ND	0.5	0.04
1,3,5-Trimethylbenzene	ND	0.5	0.08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

45.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	TB110107	Batch#:	131356
Lab ID:	198903-005	Sampled:	11/01/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.09
4-Chlorotoluene	ND	0.5	0.09
tert-Butylbenzene	ND	0.5	0.06
1,2,4-Trimethylbenzene	ND	0.5	0.08
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.09
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	2.0	0.8
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	110	74-137
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

45.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413881	Batch#:	131356
Matrix:	Water	Analyzed:	11/06/07
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.07
Chloromethane	ND	1.0	0.09
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.1
Acetone	0.8 J	10	0.3
Freon 113	ND	2.0	0.07
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	0.3 J	10	0.1
Carbon Disulfide	ND	0.5	0.08
MTBE	ND	0.5	0.04
trans-1,2-Dichloroethene	ND	0.5	0.09
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.07
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.06
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	0.03 J	0.5	0.03
Trichloroethene	ND	0.5	0.06
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.07
4-Methyl-2-Pentanone	ND	10	0.06
cis-1,3-Dichloropropene	ND	0.5	0.08
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.07
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.07
1,3-Dichloropropane	ND	0.5	0.05
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.09
Chlorobenzene	ND	0.5	0.06
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.06
m,p-Xylenes	ND	0.5	0.2
o-Xylene	ND	0.5	0.06
Styrene	ND	0.5	0.06
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.07
1,1,2,2-Tetrachloroethane	ND	0.5	0.05
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.06
Bromobenzene	ND	0.5	0.04
1,3,5-Trimethylbenzene	ND	0.5	0.08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413881	Batch#:	131356
Matrix:	Water	Analyzed:	11/06/07
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.09
4-Chlorotoluene	ND	0.5	0.09
tert-Butylbenzene	ND	0.5	0.06
1,2,4-Trimethylbenzene	ND	0.5	0.08
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.09
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	2.0	0.8
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	108	74-137
Toluene-d8	101	80-120
Bromofluorobenzene	103	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	131356
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413882

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.09	105	80-133
Benzene	12.50	12.39	99	80-120
Trichloroethene	12.50	12.04	96	80-120
Toluene	12.50	12.11	97	80-122
Chlorobenzene	12.50	11.88	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	105	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC413883

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.79	102	80-133	2	20
Benzene	12.50	12.27	98	80-120	1	20
Trichloroethene	12.50	11.98	96	80-120	1	20
Toluene	12.50	11.81	95	80-122	2	20
Chlorobenzene	12.50	11.59	93	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	104	74-137
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 198903 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 477441349003 File : hk203 Time : 02-NOV-2007 12:39

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	16721	20.34	
75	30% - 60% of mass 95	38936	47.36	
95		82208		
96	5% - 9% of mass 95	5095	6.20	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	43306	52.68	
175	5% - 9% of mass 174	3303	7.63	
176	> 95% and < 101% of mass 174	42552	98.26	
177	5% - 9% of mass 176	2391	5.62	

Analyst: TEW Date: 11/05/07 Reviewer: LW Date: 11/06/07

CURTIS & TOMPKINS BFB TUNE FOR 198903 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 477447050002 File : hk602 Time : 06-NOV-2007 11:18

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	14849	20.28	
75	30% - 60% of mass 95	32976	45.03	
95		73234		
96	5% - 9% of mass 95	4720	6.45	
173	< 2% of mass 174	124	0.30	
174	> 50% and < 100% of mass 95	41594	56.80	
175	5% - 9% of mass 174	3528	8.48	
176	> 95% and < 101% of mass 174	40298	96.88	
177	5% - 9% of mass 176	2258	5.60	

Analyst: TEW Date: 11/06/07 Reviewer: LW Date: 11/07/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 MSVOA Water: EPA 8260B

Inst : MSVOA08
Calnum : 477441349003
Units : ug/L

Name : 826GOX8
Date : 02-NOV-2007 14:36
X Axis : R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hk206	477441349006	0.25/0.5PPB	02-NOV-2007 14:36	S7425 (200000X), S7424 (100000X), S7235 (200000X), S7365 (5000X)
L2	hk207	477441349007	0.5/1PPB	02-NOV-2007 15:14	S7425 (100000X), S7424 (50000X), S7235 (100000X), S7365 (5000X)
L3	hk208	477441349008	2PPB	02-NOV-2007 15:52	S7425 (25000X), S7424 (25000X), S7235 (50000X), S7365 (5000X)
L4	hk209	477441349009	5PPB	02-NOV-2007 16:30	S7425 (10000X), S7424 (10000X), S7235 (20000X), S7365 (5000X)
L5	hk210	477441349010	10PPB	02-NOV-2007 17:08	S7425 (5000X), S7424 (5000X), S7235 (10000X), S7365 (5000X)
L6	hk211	477441349011	20PPB	02-NOV-2007 17:46	S7417 (25000X), S7531 (25000X), S6351 (50000X), S7365 (5000X)
L7	hk212	477441349012	50PPB	02-NOV-2007 18:25	S7417 (10000X), S7531 (10000X), S6351 (20000X), S7365 (5000X)
L8	hk213	477441349013	75PPB	02-NOV-2007 19:03	S7417 (6667X), S7531 (6667X), S6351 (13330X), S7365 (5000X)
L9	hk214	477441349014	100PPB	02-NOV-2007 19:41	S7417 (5000X), S7531 (5000X), S6351 (10000X), S7365 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.1652m	0.1669m	0.1909m	0.1906m	0.3406m	0.3500m	0.3415m	0.3200m	LINR	1.19100	2.97201		0.2582	0.996	15	0.05	0.99	
Chloromethane		0.6250m	0.7316m	0.5475m	0.5452m	0.5629m	0.5411m	0.5105m	0.4953m	AVRG		1.75476		0.5699	13	15	0.10	0.99	
Vinyl Chloride	0.4171m	0.4511m	0.5417m	0.4842m	0.4685m	0.5122m	0.5157m	0.4881m	0.4605m	AVRG		2.07422		0.4821	8	15	0.05	0.99	
Bromomethane		0.1617m	0.1612m	0.1513m	0.1503m	0.1389m	0.1965m	0.2049m	0.1951m	AVRG		5.88224		0.1700	15	15	0.05	0.99	
Chloroethane		0.2969m	0.3674m	0.3090m	0.2950m	0.2896m	0.2845m	0.2730m	0.2565m	AVRG		3.37281		0.2965	11	15	0.05	0.99	
Trichlorofluoromethane		0.4542	0.4716	0.4903	0.4651	0.4909	0.5002	0.4823	0.4434	AVRG		2.10639		0.4747	4	15	0.05	0.99	
Acetone					0.2808	0.2447	0.2016	0.2314	0.2148	AVRG		4.26130		0.2347	13	15	0.05	0.99	
Freon 113		0.3571	0.3617	0.4258	0.4292	0.4035	0.4056	0.3980	0.3882	AVRG		2.52436		0.3961	7	15	0.05	0.99	
1,1-Dichloroethene		0.3795	0.3662	0.3628	0.3517	0.3371	0.3399	0.3347	0.3216	AVRG		2.86376		0.3492	6	15	0.05	0.99	
Methylene Chloride				0.5392m	0.5211m	0.4807m	0.4711m	0.4526m	0.4323m	AVRG		2.07111		0.4828	8	15	0.05	0.99	
Carbon Disulfide		1.6096	1.6735	1.6615	1.6342	1.5410	1.5402	1.4558	1.4099	AVRG		0.63869		1.5657	6	15	0.05	0.99	
MTBE		1.4514	1.4558	1.4667	1.4120	1.3615	1.3456	1.2985	1.2047	AVRG		0.72752		1.3745	7	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4176	0.4453	0.4440	0.4255	0.3955	0.4052	0.3986	0.3795	AVRG		2.41607		0.4139	6	15	0.05	0.99	
Vinyl Acetate		1.0569	1.1496	1.1562	1.0602	1.4142	1.4848	1.2456	1.2176	AVRG		0.81757		1.2231	13	15	0.05	0.99	
1,1-Dichloroethane		0.9381	1.0850	0.9799	0.9355	0.8841	0.8746	0.8258	0.7798	AVRG		1.09546		0.9129	10	15	0.10	0.99	
2-Butanone		0.3795	0.4170	0.4031	0.3860	0.3544	0.3284	0.3300	0.2971	AVRG		2.76290		0.3619	11	15	0.05	0.99	
2,2-Dichloropropane		0.6206	0.6257	0.5955	0.5627	0.5263	0.5207	0.4888	0.4575	AVRG		1.81911		0.5497	11	15	0.05	0.99	
cis-1,2-Dichloroethene		0.4710	0.5243	0.4575	0.4513	0.4251	0.4359	0.4258	0.4116	AVRG		2.22071		0.4503	8	15	0.05	0.99	
Chloroform		0.7542	0.8556	0.7823	0.7593	0.7025	0.7116	0.6877	0.6529	AVRG		1.35453		0.7383	9	15	0.05	0.99	
Bromochloromethane		0.1638	0.1992	0.1912	0.1992	0.1915	0.1914	0.1978	0.1903	AVRG		5.24846		0.1905	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.4691	0.5378	0.5301	0.5322	0.4733	0.4846	0.4760	0.4540	AVRG		2.02176		0.4946	7	15	0.05	0.99	
1,1-Dichloropropene		0.3088	0.3262	0.3224	0.3166	0.2909	0.2992	0.2865	0.2794	AVRG		3.29200		0.3038	6	15	0.05	0.99	
Carbon Tetrachloride		0.1910	0.1752	0.1815	0.1802	0.1698	0.1799	0.1749	0.1749	AVRG		5.60358		0.1785	4	15	0.05	0.99	
1,2-Dichloroethane		0.3275	0.3325	0.3186	0.3081	0.2896	0.2924	0.2794	0.2688	AVRG		3.31005		0.3021	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.9396	1.0175	0.9192	0.9269	0.8427	0.8369	0.7922	0.7485	AVRG		1.13904		0.8779	10	15	0.05	0.99	
Trichloroethene		0.2042	0.2245	0.2101	0.2068	0.1944	0.1968	0.1963	0.1945	AVRG		4.91521		0.2034	5	15	0.05	0.99	
1,2-Dichloropropane		0.2867	0.3112	0.2716	0.2774	0.2635	0.2600	0.2510	0.2468	AVRG		3.68953		0.2710	8	15	0.05	0.99	
Bromodichloromethane		0.2746	0.2868	0.2864	0.2724	0.2653	0.2699	0.2688	0.2581	AVRG		3.66573		0.2728	4	15	0.05	0.99	
Dibromomethane		0.1303	0.1585	0.1517	0.1494	0.1401	0.1493	0.1475	0.1450	AVRG		6.82702		0.1465	6	15	0.05	0.99	
4-Methyl-2-Pentanone		0.3607	0.3605	0.3484	0.3472	0.3462	0.3407	0.3279	0.3123	AVRG		2.91553		0.3430	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.3513	0.3970	0.3835	0.3865	0.3493	0.3548	0.3490	0.3394	AVRG		2.74846		0.3638	6	15	0.05	0.99	
Toluene		0.4892	0.5411	0.5005	0.5039	0.4591	0.4765	0.4672	0.4515	AVRG		2.05708		0.4861	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.3243	0.3476	0.3379	0.3315	0.3121	0.3175	0.3144	0.3041	AVRG		3.08936		0.3237	4	15	0.05	0.99	
1,1,2-Trichloroethane		0.1071	0.1162	0.1145	0.1150	0.1083	0.1118	0.1097	0.1086	AVRG		8.97772		0.1114	3	15	0.05	0.99	
2-Hexanone		0.3096	0.3201	0.3293	0.3076	0.3082	0.2975	0.2808	0.2713	AVRG		3.29978		0.3031	6	15	0.05	0.99	
1,3-Dichloropropane		0.4382	0.5059	0.4775	0.4687	0.4574	0.4592	0.4359	0.4323	AVRG		2.17681		0.4594	5	15	0.05	0.99	
Tetrachloroethene		0.1594	0.1842	0.1785	0.1742	0.1648	0.1725	0.1760	0.1813	AVRG		5.75144		0.1739	5	15	0.05	0.99	
Dibromochloromethane		0.1884	0.2177	0.2125	0.2064	0.2059	0.2209	0.2190	0.2201	AVRG		4.73170		0.2113	5	15	0.05	0.99	
1,2-Dibromoethane		0.1895	0.1911	0.1972	0.1953	0.1890	0.1969	0.1967	0.1936	AVRG		5.16373		0.1937	2	15	0.05	0.99	
Chlorobenzene		0.5631	0.6748	0.5870	0.5818	0.5542	0.5670	0.5520	0.5449	AVRG		1.72980		0.5781	7	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.1713	0.1932	0.1744	0.1764	0.1707	0.1833	0.1800	0.1815	AVRG		5.59115		0.1789	4	15	0.05	0.99	
Ethylbenzene		1.1137	1.3075	1.1786	1.1547	1.0921	1.0755	1.0142	0.9628	AVRG		0.89897		1.1124	9	15	0.05	0.99	
m,p-Xylenes	0.3546	0.3717	0.4281	0.3932	0.3945	0.3781	0.3911	0.3723	0.3492	AVRG		2.62179		0.3814	6	15	0.05	0.99	
o-Xylene		0.3702	0.4229	0.3750	0.3742	0.3674	0.3784	0.3675	0.3609	AVRG		2.65212		0.3771	5	15	0.05	0.99	
Styrene		0.5971	0.7202	0.6724	0.6660	0.6442	0.6666	0.6404	0.6125	AVRG		1.53274		0.6524	6	15	0.05	0.99	
Bromoform		0.0889	0.1159	0.1199	0.1227	0.1256	0.1360	0.1373	0.1393	AVRG		8.11717		0.1232	13	15	0.10	0.99	
Isopropylbenzene		2.0753	2.4125	2.2249	2.2247	2.0404	2.0578	1.9222	1.8958	AVRG		0.47468		2.1067	8	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.8400	0.8700	0.8513	0.8297	0.8154	0.8169	0.7406	0.7534	AVRG		1.22746		0.8147	6	15	0.30	0.99	
1,2,3-Trichloropropane		0.1688	0.1874	0.1907	0.1704	0.1750	0.1801	0.1764	0.1789	AVRG		5.60345		0.1785	4	15	0.05	0.99	
Propylbenzene		3.1768	3.4710	3.1882	3.1768	2.9323	2.7977	2.5403	2.3755	AVRG		0.33814		2.9573	12	15	0.05	0.99	
Bromobenzene		0.4396	0.4989	0.4509	0.4545	0.4542	0.4710	0.4594	0.4710	AVRG		2.16236		0.4625	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		1.7565	1.9943	1.8427	1.8437	1.6975	1.6932	1.6015	1.5190	AVRG		0.57354		1.7436	9	15	0.05	0.99	
2-Chlorotoluene		2.0268	2.2645	2.0221	1.9864	1.8242	1.7918	1.6606	1.5656	AVRG		0.52834		1.8927	12	15	0.05	0.99	
4-Chlorotoluene		1.8905	2.0373	1.8182	1.8295	1.6867	1.6650	1.5883	1.5532	AVRG		0.56864		1.7586	9	15	0.05	0.99	
tert-Butylbenzene		1.3417	1.5468	1.4072	1.4028	1.3323	1.3519	1.3052	1.2927	AVRG		0.72856		1.3726	6	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.7632	2.0140	1.8421	1.8509	1.7135	1.7017	1.6232	1.5868	AVRG		0.56757		1.7619	8	15	0.05	0.99	
sec-Butylbenzene		2.4533	2.5652	2.5076	2.5119	2.3540	2.3001	2.1876	2.1016	AVRG		0.42147		2.3727	7	15	0.05	0.99	
para-Isopropyl Toluene		1.6898	1.8522	1.7440	1.7530	1.6322	1.6316	1.5779	1.5661	AVRG		0.59493		1.6809	6	15	0.05	0.99	
1,3-Dichlorobenzene		0.9377	0.9533	0.8666	0.8724	0.8311	0.8378	0.8353	0.8416	AVRG		1.14681		0.8720	5	15	0.05	0.99	
1,4-Dichlorobenzene		0.9355	0.9986	0.9201	0.9261	0.8597	0.8878	0.8658	0.8643	AVRG		1.10224		0.9072	5	15	0.05	0.99	
n-Butylbenzene		1.9866	2.1934	2.0440	2.0345	1.8508	1.8187	1.7457	1.6776	AVRG		0.52113		1.9189	9	15	0.05	0.99	
1,2-Dichlorobenzene		0.8644	0.9119	0.8537	0.8437	0.7906	0.8091	0.7929	0.8016	AVRG		1.19976		0.8335	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1535	0.1463	0.1371	0.1305	0.1311	0.1325	0.1251	0.1260	AVRG		7.39308		0.1353	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.4767	0.4732	0.4388	0.4311	0.4109	0.4191	0.4290	0.4372	AVRG		2.27528		0.4395	5	15	0.05	0.99	
Hexachlorobutadiene		0.1041	0.1132	0.1304	0.1288	0.1219	0.1264	0.1302	0.1344	AVRG		8.08659		0.1237	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.3263	1.3781	1.3580	1.3442	1.3393	1.3559	1.3283	1.3316	AVRG		0.74338		1.3452	1	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.4043	0.4088	0.3913	0.4038	0.3943	0.4059	0.4150	0.4326	AVRG		2.45701		0.4070	3	15	0.05	0.99	
Dibromofluoromethane							0.7375			AVRG		1.35587		0.7375	0	15	0.05	0.99	
1,2-Dichloroethane-d4							0.4211			AVRG		2.37480		0.4211	0	15	0.05	0.99	
Toluene-d8							1.0754			AVRG		0.92986		1.0754	0	15	0.05	0.99	
Bromofluorobenzene							1.2863			AVRG		0.77745		1.2863	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	68	2.000	9	5.000	-19	10.00	-31	20.00	7	50.00	6	75.00	3	100.0	-4
Chloromethane			1.000	10	2.000	28	5.000	-4	10.00	-4	20.00	-1	50.00	-5	75.00	-10	100.0	-13
Vinyl Chloride	0.500	-13	1.000	-6	2.000	12	5.000	0	10.00	-3	20.00	6	50.00	7	75.00	1	100.0	-4
Bromomethane			1.000	-5	2.000	-5	5.000	-11	10.00	-12	20.00	-18	50.00	16	75.00	21	100.0	15
Chloroethane			1.000	0	2.000	24	5.000	4	10.00	0	20.00	-2	50.00	-4	75.00	-8	100.0	-13
Trichlorofluoromethane			1.000	-4	2.000	-1	5.000	3	10.00	-2	20.00	3	50.00	5	75.00	2	100.0	-7
Acetone									10.00	20	20.00	4	50.00	-14	75.00	-1	100.0	-8
Freon 113			0.500	-10	2.000	-9	5.000	7	10.00	8	20.00	2	50.00	2	75.00	0	100.0	-2
1,1-Dichloroethene			0.500	9	2.000	5	5.000	4	10.00	1	20.00	-3	50.00	-3	75.00	-4	100.0	-8
Methylene Chloride							5.000	12	10.00	8	20.00	0	50.00	-2	75.00	-6	100.0	-10
Carbon Disulfide			0.500	3	2.000	7	5.000	6	10.00	4	20.00	-2	50.00	-2	75.00	-7	100.0	-10
MTBE			0.500	6	2.000	6	5.000	7	10.00	3	20.00	-1	50.00	-2	75.00	-6	100.0	-12
trans-1,2-Dichloroethene			0.500	1	2.000	8	5.000	7	10.00	3	20.00	-4	50.00	-2	75.00	-4	100.0	-8
Vinyl Acetate			0.500	-14	2.000	-6	5.000	-5	10.00	-13	20.00	16	50.00	21	75.00	2	100.0	0
1,1-Dichloroethane			0.500	3	2.000	19	5.000	7	10.00	2	20.00	-3	50.00	-4	75.00	-10	100.0	-15
2-Butanone			0.500	5	2.000	15	5.000	11	10.00	7	20.00	-2	50.00	-9	75.00	-9	100.0	-18
2,2-Dichloropropane			0.500	13	2.000	14	5.000	8	10.00	2	20.00	-4	50.00	-5	75.00	-11	100.0	-17
cis-1,2-Dichloroethene			0.500	5	2.000	16	5.000	2	10.00	0	20.00	-6	50.00	-3	75.00	-5	100.0	-9
Chloroform			0.500	2	2.000	16	5.000	6	10.00	3	20.00	-5	50.00	-4	75.00	-7	100.0	-12
Bromochloromethane			0.500	-14	2.000	5	5.000	0	10.00	5	20.00	1	50.00	0	75.00	4	100.0	0
1,1,1-Trichloroethane			0.500	-5	2.000	9	5.000	7	10.00	8	20.00	-4	50.00	-2	75.00	-4	100.0	-8
1,1-Dichloropropene			0.500	2	2.000	7	5.000	6	10.00	4	20.00	-4	50.00	-2	75.00	-6	100.0	-8
Carbon Tetrachloride			0.500	7	2.000	-2	5.000	2	10.00	1	20.00	-5	50.00	1	75.00	-2	100.0	-2
1,2-Dichloroethane			0.500	8	2.000	10	5.000	5	10.00	2	20.00	-4	50.00	-3	75.00	-8	100.0	-11
Benzene			0.500	7	2.000	16	5.000	5	10.00	6	20.00	-4	50.00	-5	75.00	-10	100.0	-15
Trichloroethene			0.500	0	2.000	10	5.000	3	10.00	2	20.00	-4	50.00	-3	75.00	-4	100.0	-4
1,2-Dichloropropane			0.500	6	2.000	15	5.000	0	10.00	2	20.00	-3	50.00	-4	75.00	-7	100.0	-9
Bromodichloromethane			0.500	1	2.000	5	5.000	5	10.00	0	20.00	-3	50.00	-1	75.00	-1	100.0	-5
Dibromomethane			0.500	-11	2.000	8	5.000	4	10.00	2	20.00	-4	50.00	2	75.00	1	100.0	-1
4-Methyl-2-Pentanone			0.500	5	2.000	5	5.000	2	10.00	1	20.00	1	50.00	-1	75.00	-4	100.0	-9
cis-1,3-Dichloropropene			0.500	-3	2.000	9	5.000	5	10.00	6	20.00	-4	50.00	-2	75.00	-4	100.0	-7
Toluene			0.500	1	2.000	11	5.000	3	10.00	4	20.00	-6	50.00	-2	75.00	-4	100.0	-7
trans-1,3-Dichloropropene			0.500	0	2.000	7	5.000	4	10.00	2	20.00	-4	50.00	-2	75.00	-3	100.0	-6
1,1,2-Trichloroethane			0.500	-4	2.000	4	5.000	3	10.00	3	20.00	-3	50.00	0	75.00	-2	100.0	-3
2-Hexanone			0.500	2	2.000	6	5.000	9	10.00	2	20.00	2	50.00	-2	75.00	-7	100.0	-10
1,3-Dichloropropane			0.500	-5	2.000	10	5.000	4	10.00	2	20.00	0	50.00	0	75.00	-5	100.0	-6
Tetrachloroethene			0.500	-8	2.000	6	5.000	3	10.00	0	20.00	-5	50.00	-1	75.00	1	100.0	4
Dibromochloromethane			0.500	-11	2.000	3	5.000	1	10.00	-2	20.00	-3	50.00	5	75.00	4	100.0	4
1,2-Dibromoethane			0.500	-2	2.000	-1	5.000	2	10.00	1	20.00	-2	50.00	2	75.00	2	100.0	0
Chlorobenzene			0.500	-3	2.000	17	5.000	2	10.00	1	20.00	-4	50.00	-2	75.00	-5	100.0	-6
1,1,1,2-Tetrachloroethane			0.500	-4	2.000	8	5.000	-3	10.00	-1	20.00	-5	50.00	3	75.00	1	100.0	1
Ethylbenzene			0.500	0	2.000	18	5.000	6	10.00	4	20.00	-2	50.00	-3	75.00	-9	100.0	-13

00201

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-7	1.000	-3	4.000	12	10.00	3	20.00	3	40.00	-1	100.0	3	150.0	-2	200.0	-8
o-Xylene			0.500	-2	2.000	12	5.000	-1	10.00	-1	20.00	-3	50.00	0	75.00	-3	100.0	-4
Styrene			0.500	-8	2.000	10	5.000	3	10.00	2	20.00	-1	50.00	2	75.00	-2	100.0	-6
Bromoform			0.500	-28	2.000	-6	5.000	-3	10.00	0	20.00	2	50.00	10	75.00	11	100.0	13
Isopropylbenzene			0.500	-1	2.000	15	5.000	6	10.00	6	20.00	-3	50.00	-2	75.00	-9	100.0	-10
1,1,2,2-Tetrachloroethane			0.500	3	2.000	7	5.000	4	10.00	2	20.00	0	50.00	0	75.00	-9	100.0	-8
1,2,3-Trichloropropane			0.500	-5	2.000	5	5.000	7	10.00	-5	20.00	-2	50.00	1	75.00	-1	100.0	0
Propylbenzene			0.500	7	2.000	17	5.000	8	10.00	7	20.00	-1	50.00	-5	75.00	-14	100.0	-20
Bromobenzene			0.500	-5	2.000	8	5.000	-3	10.00	-2	20.00	-2	50.00	2	75.00	-1	100.0	2
1,3,5-Trimethylbenzene			0.500	1	2.000	14	5.000	6	10.00	6	20.00	-3	50.00	-3	75.00	-8	100.0	-13
2-Chlorotoluene			0.500	7	2.000	20	5.000	7	10.00	5	20.00	-4	50.00	-5	75.00	-12	100.0	-17
4-Chlorotoluene			0.500	7	2.000	16	5.000	3	10.00	4	20.00	-4	50.00	-5	75.00	-10	100.0	-12
tert-Butylbenzene			0.500	-2	2.000	13	5.000	3	10.00	2	20.00	-3	50.00	-2	75.00	-5	100.0	-6
1,2,4-Trimethylbenzene			0.500	0	2.000	14	5.000	5	10.00	5	20.00	-3	50.00	-3	75.00	-8	100.0	-10
sec-Butylbenzene			0.500	3	2.000	8	5.000	6	10.00	6	20.00	-1	50.00	-3	75.00	-8	100.0	-11
para-Isopropyl Toluene			0.500	1	2.000	10	5.000	4	10.00	4	20.00	-3	50.00	-3	75.00	-6	100.0	-7
1,3-Dichlorobenzene			0.500	8	2.000	9	5.000	-1	10.00	0	20.00	-5	50.00	-4	75.00	-4	100.0	-3
1,4-Dichlorobenzene			0.500	3	2.000	10	5.000	1	10.00	2	20.00	-5	50.00	-2	75.00	-5	100.0	-5
n-Butylbenzene			0.500	4	2.000	14	5.000	7	10.00	6	20.00	-4	50.00	-5	75.00	-9	100.0	-13
1,2-Dichlorobenzene			0.500	4	2.000	9	5.000	2	10.00	1	20.00	-5	50.00	-3	75.00	-5	100.0	-4
1,2-Dibromo-3-Chloropropane			0.500	13	2.000	8	5.000	1	10.00	-4	20.00	-3	50.00	-2	75.00	-8	100.0	-7
1,2,4-Trichlorobenzene			0.500	8	2.000	8	5.000	0	10.00	-2	20.00	-7	50.00	-5	75.00	-2	100.0	-1
Hexachlorobutadiene			0.500	-16	2.000	-8	5.000	5	10.00	4	20.00	-1	50.00	2	75.00	5	100.0	9
Naphthalene			0.500	-1	2.000	2	5.000	1	10.00	0	20.00	0	50.00	1	75.00	-1	100.0	-1
1,2,3-Trichlorobenzene			0.500	-1	2.000	0	5.000	-4	10.00	-1	20.00	-3	50.00	0	75.00	2	100.0	6
Dibromofluoromethane													50.00	0				
1,2-Dichloroethane-d4													50.00	0				
Toluene-d8													50.00	0				
Bromofluorobenzene													50.00	0				

00298

Analyst: TEW Date: 11/05/07 Reviewer: LW Date: 11/06/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 MSVOA Water
EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 477441349003 Cal Date : 02-NOV-2007 Type : WATER

ICV 477441349016 (hk216 02-NOV-2007) stds: S7415 (10000X), S7365 (5000X)
ICV 477441349017 (hk217 02-NOV-2007) stds: S7480 (10000X), S7498 (10000X), S7365 (5000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	477441349016	0.2582	0.3844	25.00	29.75	ug/L	19	20	m
Chloromethane	477441349016	0.5699	0.5248	25.00	23.02	ug/L	-8	20	m
Vinyl Chloride	477441349016	0.4821	0.4682	25.00	24.28	ug/L	-3	20	m
Bromomethane	477441349016	0.1700	0.1516	25.00	22.29	ug/L	-11	20	m
Chloroethane	477441349016	0.2965	0.2603	25.00	21.95	ug/L	-12	20	m
Trichlorofluoromethane	477441349016	0.4747	0.4373	25.00	23.03	ug/L	-8	20	
Acetone	477441349017	0.2347	0.2335	25.00	24.87	ug/L	-1	30	
Freon 113	477441349017	0.3961	0.3965	25.00	25.02	ug/L	0	20	
1,1-Dichloroethene	477441349017	0.3492	0.3762	25.00	26.93	ug/L	8	20	
Methylene Chloride	477441349017	0.4828	0.4936	25.00	25.56	ug/L	2	20	
Carbon Disulfide	477441349017	1.5657	1.5930	25.00	25.44	ug/L	2	20	
MTBE	477441349017	1.3745	1.2719	25.00	23.13	ug/L	-7	20	
trans-1,2-Dichloroethene	477441349017	0.4139	0.4163	25.00	25.14	ug/L	1	20	
Vinyl Acetate	477441349017	1.2231	1.1907	25.00	24.34	ug/L	-3	30	
1,1-Dichloroethane	477441349017	0.9129	0.8906	25.00	24.39	ug/L	-2	20	
2-Butanone	477441349017	0.3619	0.3251	25.00	22.46	ug/L	-10	30	
2,2-Dichloropropane	477441349017	0.5497	0.4915	25.00	22.35	ug/L	-11	20	
cis-1,2-Dichloroethene	477441349017	0.4503	0.4503	25.00	25.00	ug/L	0	20	
Chloroform	477441349017	0.7383	0.7228	25.00	24.48	ug/L	-2	20	
Bromochloromethane	477441349017	0.1905	0.1943	25.00	25.50	ug/L	2	20	
1,1,1-Trichloroethane	477441349017	0.4946	0.5001	25.00	25.28	ug/L	1	20	
1,1-Dichloropropene	477441349017	0.3038	0.3078	25.00	25.34	ug/L	1	20	
Carbon Tetrachloride	477441349017	0.1785	0.1834	25.00	25.69	ug/L	3	20	
1,2-Dichloroethane	477441349017	0.3021	0.2986	25.00	24.71	ug/L	-1	20	
Benzene	477441349017	0.8779	0.8733	25.00	24.87	ug/L	-1	20	
Trichloroethene	477441349017	0.2034	0.2042	25.00	25.09	ug/L	0	20	
1,2-Dichloropropane	477441349017	0.2710	0.2595	25.00	23.93	ug/L	-4	20	
Bromodichloromethane	477441349017	0.2728	0.2793	25.00	25.60	ug/L	2	20	
Dibromomethane	477441349017	0.1465	0.1499	25.00	25.59	ug/L	2	20	
4-Methyl-2-Pentanone	477441349017	0.3430	0.3184	25.00	23.21	ug/L	-7	30	
cis-1,3-Dichloropropene	477441349017	0.3638	0.3597	25.00	24.72	ug/L	-1	20	
Toluene	477441349017	0.4861	0.4799	25.00	24.68	ug/L	-1	20	
trans-1,3-Dichloropropene	477441349017	0.3237	0.3033	25.00	23.43	ug/L	-6	20	
1,1,2-Trichloroethane	477441349017	0.1114	0.1135	25.00	25.48	ug/L	2	20	
2-Hexanone	477441349017	0.3031	0.2738	25.00	22.58	ug/L	-10	30	
1,3-Dichloropropane	477441349017	0.4594	0.4519	25.00	24.59	ug/L	-2	20	
Tetrachloroethene	477441349017	0.1739	0.1698	25.00	24.42	ug/L	-2	20	
Dibromochloromethane	477441349017	0.2113	0.2119	25.00	25.07	ug/L	0	20	
1,2-Dibromoethane	477441349017	0.1937	0.1938	25.00	25.02	ug/L	0	20	
Chlorobenzene	477441349017	0.5781	0.5499	25.00	23.78	ug/L	-5	20	
1,1,1,2-Tetrachloroethane	477441349017	0.1789	0.1809	25.00	25.28	ug/L	1	20	
Ethylbenzene	477441349017	1.1124	1.1223	25.00	25.22	ug/L	1	20	
m,p-Xylenes	477441349017	0.3814	0.3805	50.00	49.88	ug/L	0	20	
o-Xylene	477441349017	0.3771	0.3684	25.00	24.43	ug/L	-2	20	
Styrene	477441349017	0.6524	0.6775	25.00	25.96	ug/L	4	20	
Bromoform	477441349017	0.1232	0.1285	25.00	26.08	ug/L	4	20	
Isopropylbenzene	477441349017	2.1067	1.9189	25.00	22.77	ug/L	-9	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	477441349017	0.8147	0.7992	25.00	24.52	ug/L	-2	20	
1,2,3-Trichloropropane	477441349017	0.1785	0.1800	25.00	25.22	ug/L	1	20	
Propylbenzene	477441349017	2.9573	2.9129	25.00	24.62	ug/L	-2	20	
Bromobenzene	477441349017	0.4625	0.4670	25.00	25.25	ug/L	1	20	
1,3,5-Trimethylbenzene	477441349017	1.7436	1.7501	25.00	25.09	ug/L	0	20	
2-Chlorotoluene	477441349017	1.8927	1.8588	25.00	24.55	ug/L	-2	20	
4-Chlorotoluene	477441349017	1.7586	1.6681	25.00	23.71	ug/L	-5	20	
tert-Butylbenzene	477441349017	1.3726	1.3399	25.00	24.41	ug/L	-2	20	
1,2,4-Trimethylbenzene	477441349017	1.7619	1.7923	25.00	25.43	ug/L	2	20	
sec-Butylbenzene	477441349017	2.3727	2.3555	25.00	24.82	ug/L	-1	20	
para-Isopropyl Toluene	477441349017	1.6809	1.5963	25.00	23.74	ug/L	-5	20	
1,3-Dichlorobenzene	477441349017	0.8720	0.8211	25.00	23.54	ug/L	-6	20	
1,4-Dichlorobenzene	477441349017	0.9072	0.8549	25.00	23.56	ug/L	-6	20	
n-Butylbenzene	477441349017	1.9189	1.9152	25.00	24.95	ug/L	0	20	
1,2-Dichlorobenzene	477441349017	0.8335	0.8082	25.00	24.24	ug/L	-3	20	
1,2-Dibromo-3-Chloropropane	477441349017	0.1353	0.1291	25.00	23.87	ug/L	-5	20	
1,2,4-Trichlorobenzene	477441349017	0.4395	0.4161	25.00	23.67	ug/L	-5	20	
Hexachlorobutadiene	477441349017	0.1237	0.1298	25.00	26.24	ug/L	5	20	
Naphthalene	477441349017	1.3452	1.3264	25.00	24.65	ug/L	-1	20	
1,2,3-Trichlorobenzene	477441349017	0.4070	0.4003	25.00	24.59	ug/L	-2	20	

m=manual integration

CURTIS & TOMPKINS SPIKE USER REPORT FOR 198903 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : QC413882 IDF : 1.0
Seqnum : 477447050004.5 File : hk604 Time : 06-NOV-2007 12:25
Cal : 477441349003 Caldate : 02-NOV-2007 Caltype : WATER
Standards: S7480 (20000X), S7498 (20000X), S7415 (20000X), S7365 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.2582	0.3541	12.50	14.34	ug/L	15	20	0.0500	m u
Chloromethane	0.5699	0.5489	12.50	12.04	ug/L	-4	20	0.1000	m u
Vinyl Chloride	0.4821	0.4618	12.50	11.97	ug/L	-4	20	0.0500	m u
Bromomethane	0.1700	0.1836	12.50	13.50	ug/L	8	20	0.0500	m u
Chloroethane	0.2965	0.2579	12.50	10.87	ug/L	-13	20	0.0500	m u
Trichlorofluoromethane	0.4747	0.4347	12.50	11.44	ug/L	-8	20	0.0500	u
Acetone	0.2347	0.2192	12.50	11.68	ug/L	-7	30	0.0500	u
Freon 113	0.3961	0.3812	12.50	12.03	ug/L	-4	20	0.0500	u
1,1-Dichloroethene	0.3492	0.3655	12.50	13.09	ug/L	5	20	0.0500	u
Methylene Chloride	0.4828	0.5011	12.50	12.97	ug/L	4	20	0.0500	m u
Carbon Disulfide	1.5657	1.5813	12.50	12.62	ug/L	1	20	0.0500	u
MTBE	1.3745	1.2363	12.50	11.24	ug/L	-10	20	0.0500	u
trans-1,2-Dichloroethene	0.4139	0.4150	12.50	12.53	ug/L	0	20	0.0500	u
Vinyl Acetate	1.2231	1.2083	12.50	12.35	ug/L	-1	30	0.0500	u
1,1-Dichloroethane	0.9129	0.8902	12.50	12.19	ug/L	-2	20	0.1000	u
2-Butanone	0.3619	0.3220	12.50	11.12	ug/L	-11	30	0.0500	u
cis-1,2-Dichloroethene	0.4503	0.4479	12.50	12.43	ug/L	-1	20	0.0500	u
2,2-Dichloropropane	0.5497	0.5081	12.50	11.55	ug/L	-8	20	0.0500	u
Chloroform	0.7383	0.7206	12.50	12.20	ug/L	-2	20	0.0500	u
Bromochloromethane	0.1905	0.1886	12.50	12.37	ug/L	-1	20	0.0500	u
1,1,1-Trichloroethane	0.4946	0.5031	12.50	12.71	ug/L	2	20	0.0500	u
1,1-Dichloropropene	0.3038	0.2986	12.50	12.29	ug/L	-2	20	0.0500	u
Carbon Tetrachloride	0.1785	0.1780	12.50	12.47	ug/L	0	20	0.0500	u
1,2-Dichloroethane	0.3021	0.2957	12.50	12.23	ug/L	-2	20	0.0500	u
Benzene	0.8779	0.8699	12.50	12.39	ug/L	-1	20	0.0500	u
Trichloroethene	0.2034	0.1960	12.50	12.04	ug/L	-4	20	0.0500	u
1,2-Dichloropropane	0.2710	0.2498	12.50	11.52	ug/L	-8	20	0.0500	u
Bromodichloromethane	0.2728	0.2727	12.50	12.50	ug/L	0	20	0.0500	u
Dibromomethane	0.1465	0.1460	12.50	12.46	ug/L	0	20	0.0500	u
4-Methyl-2-Pentanone	0.3430	0.3285	12.50	11.97	ug/L	-4	30	0.0500	u
cis-1,3-Dichloropropene	0.3638	0.3512	12.50	12.07	ug/L	-3	20	0.0500	u
Toluene	0.4861	0.4708	12.50	12.11	ug/L	-3	20	0.0500	u
trans-1,3-Dichloropropene	0.3237	0.2909	12.50	11.24	ug/L	-10	20	0.0500	u
1,1,2-Trichloroethane	0.1114	0.1083	12.50	12.15	ug/L	-3	20	0.0500	u
2-Hexanone	0.3031	0.2877	12.50	11.87	ug/L	-5	30	0.0500	u
1,3-Dichloropropane	0.4594	0.4613	12.50	12.55	ug/L	0	20	0.0500	u
Tetrachloroethene	0.1739	0.1653	12.50	11.88	ug/L	-5	20	0.0500	u
Dibromochloromethane	0.2113	0.2044	12.50	12.09	ug/L	-3	20	0.0500	u
1,2-Dibromoethane	0.1937	0.1882	12.50	12.15	ug/L	-3	20	0.0500	u
Chlorobenzene	0.5781	0.5493	12.50	11.88	ug/L	-5	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.1789	0.1753	12.50	12.25	ug/L	-2	20	0.0500	u
Ethylbenzene	1.1124	1.0982	12.50	12.34	ug/L	-1	20	0.0500	u
m,p-Xylenes	0.3814	0.3729	25.00	24.44	ug/L	-2	20	0.0500	u
o-Xylene	0.3771	0.3617	12.50	11.99	ug/L	-4	20	0.0500	u
Styrene	0.6524	0.6549	12.50	12.55	ug/L	0	20	0.0500	u
Bromoform	0.1232	0.1232	12.50	12.50	ug/L	0	20	0.1000	u
Isopropylbenzene	2.1067	1.8579	12.50	11.02	ug/L	-12	20	0.0500	u
1,1,2,2-Tetrachloroethane	0.8147	0.8050	12.50	12.35	ug/L	-1	20	0.3000	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.1785	0.1738	12.50	12.17	ug/L	-3	20	0.0500	u
Propylbenzene	2.9573	2.8189	12.50	11.91	ug/L	-5	20	0.0500	u
Bromobenzene	0.4625	0.4533	12.50	12.25	ug/L	-2	20	0.0500	u
1,3,5-Trimethylbenzene	1.7436	1.7140	12.50	12.29	ug/L	-2	20	0.0500	u
2-Chlorotoluene	1.8927	1.8340	12.50	12.11	ug/L	-3	20	0.0500	u
4-Chlorotoluene	1.7586	1.6303	12.50	11.59	ug/L	-7	20	0.0500	u
tert-Butylbenzene	1.3726	1.2895	12.50	11.74	ug/L	-6	20	0.0500	u
1,2,4-Trimethylbenzene	1.7619	1.7216	12.50	12.21	ug/L	-2	20	0.0500	u
sec-Butylbenzene	2.3727	2.2445	12.50	11.82	ug/L	-5	20	0.0500	u
para-Isopropyl Toluene	1.6809	1.5171	12.50	11.28	ug/L	-10	20	0.0500	u
1,3-Dichlorobenzene	0.8720	0.7965	12.50	11.42	ug/L	-9	20	0.0500	u
1,4-Dichlorobenzene	0.9072	0.8293	12.50	11.43	ug/L	-9	20	0.0500	u
n-Butylbenzene	1.9189	1.8051	12.50	11.76	ug/L	-6	20	0.0500	u
1,2-Dichlorobenzene	0.8335	0.7879	12.50	11.82	ug/L	-5	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1353	0.1368	12.50	12.64	ug/L	1	20	0.0500	u
1,2,4-Trichlorobenzene	0.4395	0.3804	12.50	10.82	ug/L	-13	20	0.0500	u
Hexachlorobutadiene	0.1237	0.1173	12.50	11.86	ug/L	-5	20	0.0500	u
Naphthalene	1.3452	1.2706	12.50	11.81	ug/L	-6	20	0.0500	u
1,2,3-Trichlorobenzene	0.4070	0.3606	12.50	11.08	ug/L	-11	20	0.0500	u
Dibromofluoromethane	0.7375	0.7380	50.00	50.03	ug/L	0	20	0.0500	u
1,2-Dichloroethane-d4	0.4211	0.4429	50.00	52.59	ug/L	5	20	0.0500	u
Toluene-d8	1.0754	1.0767	50.00	50.06	ug/L	0	20	0.0500	u
Bromofluorobenzene	1.2863	1.2950	50.00	50.34	ug/L	1	20	0.0500	u

ISTD (ICAL hk212)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1561189	1590778	1.90	10.05	10.05	0.00
1,4-Difluorobenzene	3192098	3240608	1.52	11.18	11.17	-0.01
Chlorobenzene-d5	2536276	2565581	1.16	15.25	15.25	0.00
1,4-Dichlorobenzene-d4	1171138	1160945	-0.87	17.96	17.96	0.00

Analyst: TEW Date: 11/07/07 Reviewer: WNH Date: 11/07/07

m=manual integration u=use

477447050004.5

00212

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 477447050

Date : 11/06/07
Sequence : MSVOA08 hk6

Reference : hk212
Analyzed : 11/02/07 18:25

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1561189	10.05	3192098	11.18	2536276	15.25	1171138	17.96
		LOWER LIMIT	780595	9.55	1596049	10.68	1268138	14.75	585569	17.46
		UPPER LIMIT	3122378	10.55	6384196	11.68	5072552	15.75	2342276	18.46
004	CCV/BS	QC413882	1590778	10.05	3240608	11.17	2565581	15.25	1160945	17.96
005	BSD	QC413883	1585310	10.06	3228998	11.17	2566700	15.24	1156459	17.96
007	BLANK	QC413881	1550148	10.05	3149063	11.17	2515107	15.24	1102995	17.97
008	SAMPLE	198881-001	1530980	10.05	3152478	11.18	2504789	15.25	1082081	17.96
009	SAMPLE	198903-005	1497573	10.05	3080498	11.17	2433034	15.25	1071806	17.97
010	SAMPLE	198702-016	1489381	10.06	3070647	11.17	2465216	15.24	1085713	17.96
011	SAMPLE	198702-017	1490024	10.06	3117358	11.17	2496864	15.24	1094566	17.96
012	SAMPLE	198702-018	1468305	10.05	3041497	11.18	2434958	15.25	1052367	17.96
013	SAMPLE	198903-004	1452900	10.05	3039572	11.18	2421730	15.25	1058335	17.96
014	SAMPLE	198881-002	1462416	10.05	3057573	11.18	2440129	15.25	1084200	17.96
015	SAMPLE	198881-009	1448086	10.05	3003561	11.18	2428876	15.25	1073643	17.96
016	SAMPLE	198881-014	1455768	10.06	3031262	11.17	2424466	15.24	1091411	17.96
017	SAMPLE	198881-018	1462898	10.06	3049799	11.17	2404771	15.24	1085428	17.96
018	SAMPLE	198881-019	1570600	10.06	3178917	11.17	2544867	15.24	1136400	17.96
019	SAMPLE	198859-001	1620376	10.05	3246594	11.18	2587430	15.25	1145274	17.96
020	SAMPLE	198859-002	1556080	10.06	3184536	11.17	2516373	15.24	1140535	17.96
021	SAMPLE	198840-012	1630156	10.06	3248720	11.17	2566697	15.24	1120666	17.96

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 477441349

Instrument : MSVOA08
Method : EPA 8260B

Begun : 11/02/07 11:49
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	hk201	X	IB			11/02/07 11:49	1.0	1
002	hk202	X	BFB			11/02/07 12:21	1.0	2
003	hk203	TUN	BFB			11/02/07 12:39	1.0	2
004	hk204	X	IB			11/02/07 13:08	1.0	1
005	hk205	IB	CALIB IB			11/02/07 13:46	1.0	1
006	hk206	ICAL	0.25/0.5PPB			11/02/07 14:36	1.0	3 4 5 1
007	hk207	ICAL	0.5/1PPB			11/02/07 15:14	1.0	3 4 5 1
008	hk208	ICAL	2PPB			11/02/07 15:52	1.0	3 4 5 1
009	hk209	ICAL	5PPB			11/02/07 16:30	1.0	3 4 5 1
010	hk210	ICAL	10PPB			11/02/07 17:08	1.0	3 4 5 1
011	hk211	ICAL	20PPB			11/02/07 17:46	1.0	6 7 8 1
012	hk212	ICAL	50PPB			11/02/07 18:25	1.0	6 7 8 1
013	hk213	ICAL	75PPB			11/02/07 19:03	1.0	6 7 8 1
014	hk214	ICAL	100PPB			11/02/07 19:41	1.0	6 7 8 1
015	hk215	X	IB			11/02/07 20:19	1.0	1
016	hk216	ICV				11/02/07 20:57	1.0	9 1
017	hk217	ICV				11/02/07 21:36	1.0	10 11 1
018	hk218	X	IB			11/02/07 22:14	1.0	1
019	hk219	X	IB			11/02/07 22:52	1.0	1
020	hk220	X	IB			11/02/07 23:30	1.0	1

TEW 11/06/07 : Bromomethane integration was based on retention time & baseline to baseline as much as was feasible.

Analyst: TEW Date: 11/05/07 Reviewer: LW Date: 11/06/07

Standards used: 1=S7365 2=S6497 3=S7425 4=S7424 5=S7235 6=S7417 7=S7531 8=S6351 9=S7415 10=S7480 11=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 477447050

Instrument : MSVOA08
Method : EPA 8260B

Begun : 11/06/07 10:50
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hk601	X	IB			11/06/07 10:50	1.0	1	
002	hk602	TUN	BFB			11/06/07 11:18	1.0	2	
003	hk603	X	25PPB			11/06/07 11:47	1.0	3 4 5 1	
004	hk604	CCV/BS	QC413882	Water	131356	11/06/07 12:25	1.0	6 7 8 1	
005	hk605	BSD	QC413883	Water	131356	11/06/07 13:03	1.0	6 7 8 1	
006	hk606	X	IB			11/06/07 13:42	1.0	1	
007	hk607	BLANK	QC413881	Water	131356	11/06/07 14:20	1.0	1	
008	hk608	SAMPLE	198881-001	Water	131356	11/06/07 14:58	1.0	1	
009	hk609	SAMPLE	198903-005	Water	131356	11/06/07 15:36	1.0	1	
010	hk610	SAMPLE	198702-016	Water	131356	11/06/07 16:14	1.0	1	
011	hk611	SAMPLE	198702-017	Water	131356	11/06/07 16:52	1.0	1	
012	hk612	SAMPLE	198702-018	Water	131356	11/06/07 17:30	1.0	1	
013	hk613	SAMPLE	198903-004	Water	131356	11/06/07 18:08	1.0	1	
014	hk614	SAMPLE	198881-002	Water	131356	11/06/07 18:46	1.0	1	
015	hk615	SAMPLE	198881-009	Water	131356	11/06/07 19:24	1.0	1	
016	hk616	SAMPLE	198881-014	Water	131356	11/06/07 20:02	1.0	1	
017	hk617	SAMPLE	198881-018	Water	131356	11/06/07 20:40	1.0	1	
018	hk618	SAMPLE	198881-019	Water	131356	11/06/07 21:17	1.0	1	
019	hk619	SAMPLE	198859-001	Water	131356	11/06/07 21:55	2.500	1	
020	hk620	SAMPLE	198859-002	Water	131356	11/06/07 22:33	4.0	1	
021	hk621	SAMPLE	198840-012	Water	131356	11/06/07 23:11	333.3	1	pH > 2, headspace <= 1 mL
022	hk622	X	IB			11/06/07 23:49	1.0	1	
023	hk623	X	IB			11/07/07 00:27	1.0	1	
024	hk624	X	IB			11/07/07 01:05	1.0	1	

Analyst: TEW Date: 11/07/07 Reviewer: LW Date: 11/07/07

Standards used: 1=S7365 2=S6497 3=S7417 4=S7531 5=S6351 6=S7480 7=S7498 8=S7415

REPORTING SUMMARY FOR 198903 MSVOA Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF		F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H	N
C	L	C	R	L	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C	A
1	M		M	E	1	E	1	E	L	S	B	E		A	K	E	P	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	M	B	B	B	B	C	B	B	P
2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M		Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	P	1	U	H	 | | | | | | |2| | | |2| | |3| | | | | |2| | |2| | |2| |3|2| |3| | | | | | | | | | | | | | |2|3| |2|2| | |2|3|3| | | |	
198903-004	MSVOA08	11/06/07 18:08	1.0		+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 11-6-07
PREPPED BY. ZIA

131356 **WATER**

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	198859-001		E	<2			8	OD RRc 2.5x	
2	↓ -002		↓	1			↓	↓ ↓ 4x	
3	198840-012		C	3	bubble -	LV		↓ ↓ 333x	
4	198702-016		B	<2				RRc 1x Freon 113 Curve +	Due 11/6 Hold 11/7
5	↓ -017		↓					↓ ↓ ↓	↓ ↓
6	↓ -018		C					1x	
7	198903-004		B					↓ TB	
8	↓ -005		C					↓	
9	198881-001		↓						
10	↓ -002		F						
11	↓ -009		↓						
12	↓ -014								
13	↓ -018								
14	↓ -019						↓	↓	
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									

PREPFORM.XLS

7/21/98

Curtis & Tompkins, Ltd

Volatile Organics
Soil

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX359[4.0]	Dil'n Fac:	0.8772
Lab ID:	198903-001	Batch#:	131244
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	10	0.97
Chloromethane	ND	10	0.62
Vinyl Chloride	ND	10	0.52
Bromomethane	ND	10	0.86
Chloroethane	ND	10	0.85
Trichlorofluoromethane	ND	5.2	0.91
Acetone	8.7 J	21	0.82
Freon 113	ND	5.2	2.1
1,1-Dichloroethene	ND	5.2	0.34
Methylene Chloride	ND	21	0.54
Carbon Disulfide	ND	5.2	0.56
MTBE	ND	5.2	0.75
trans-1,2-Dichloroethene	ND	5.2	0.60
Vinyl Acetate	ND	52	0.71
1,1-Dichloroethane	ND	5.2	0.81
2-Butanone	1.9 J	10	1.1
cis-1,2-Dichloroethene	ND	5.2	0.82
2,2-Dichloropropane	ND	5.2	0.72
Chloroform	ND	5.2	0.57
Bromochloromethane	ND	5.2	0.71
1,1,1-Trichloroethane	ND	5.2	0.47
1,1-Dichloropropene	ND	5.2	0.66
Carbon Tetrachloride	ND	5.2	0.92
1,2-Dichloroethane	ND	5.2	0.70
Benzene	ND	5.2	0.74
Trichloroethene	ND	5.2	0.83
1,2-Dichloropropane	ND	5.2	0.93
Bromodichloromethane	ND	5.2	0.88
Dibromomethane	ND	5.2	0.73
4-Methyl-2-Pentanone	ND	10	0.66
cis-1,3-Dichloropropene	ND	5.2	0.68
Toluene	ND	5.2	0.72
trans-1,3-Dichloropropene	ND	5.2	0.69
1,1,2-Trichloroethane	ND	5.2	0.72
2-Hexanone	ND	10	0.86
1,3-Dichloropropane	ND	5.2	0.67
Tetrachloroethene	ND	5.2	0.77
Dibromochloromethane	ND	5.2	0.74
1,2-Dibromoethane	ND	5.2	0.75
Chlorobenzene	ND	5.2	0.68
1,1,1,2-Tetrachloroethane	ND	5.2	0.60
Ethylbenzene	ND	5.2	0.55
m,p-Xylenes	ND	5.2	1.1
o-Xylene	ND	5.2	0.60
Styrene	ND	5.2	0.75
Bromoform	ND	5.2	0.60
Isopropylbenzene	ND	5.2	0.56
1,1,2,2-Tetrachloroethane	ND	5.2	0.72
1,2,3-Trichloropropane	ND	5.2	0.71
Propylbenzene	ND	5.2	0.60

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX359[4.0]	Diln Fac:	0.8772
Lab ID:	198903-001	Batch#:	131244
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Analyte	Result	RL	MDL
Bromobenzene	ND	5.2	0.92
1,3,5-Trimethylbenzene	ND	5.2	0.73
2-Chlorotoluene	ND	5.2	0.70
4-Chlorotoluene	ND	5.2	0.99
tert-Butylbenzene	ND	5.2	0.69
1,2,4-Trimethylbenzene	ND	5.2	0.77
sec-Butylbenzene	ND	5.2	0.79
para-Isopropyl Toluene	ND	5.2	0.71
1,3-Dichlorobenzene	ND	5.2	0.65
1,4-Dichlorobenzene	ND	5.2	0.72
n-Butylbenzene	ND	5.2	0.60
1,2-Dichlorobenzene	ND	5.2	0.94
1,2-Dibromo-3-Chloropropane	ND	5.2	0.92
1,2,4-Trichlorobenzene	ND	5.2	0.86
Hexachlorobutadiene	ND	5.2	0.59
Naphthalene	ND	5.2	0.56
1,2,3-Trichlorobenzene	ND	5.2	0.63

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	107	79-136
Toluene-d8	107	80-120
Bromofluorobenzene	93	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX360[4.0]	Diln Fac:	0.7813
Lab ID:	198903-002	Batch#:	131244
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	9.3	0.87
Chloromethane	ND	9.3	0.56
Vinyl Chloride	ND	9.3	0.46
Bromomethane	ND	9.3	0.76
Chloroethane	ND	9.3	0.76
Trichlorofluoromethane	ND	4.7	0.81
Acetone	1.3 J	19	0.73
Freon 113	ND	4.7	1.9
1,1-Dichloroethene	ND	4.7	0.30
Methylene Chloride	ND	19	0.48
Carbon Disulfide	ND	4.7	0.50
MTBE	ND	4.7	0.67
trans-1,2-Dichloroethene	ND	4.7	0.54
Vinyl Acetate	ND	47	0.64
1,1-Dichloroethane	ND	4.7	0.72
2-Butanone	ND	9.3	0.94
cis-1,2-Dichloroethene	ND	4.7	0.73
2,2-Dichloropropane	ND	4.7	0.64
Chloroform	ND	4.7	0.50
Bromochloromethane	ND	4.7	0.64
1,1,1-Trichloroethane	ND	4.7	0.42
1,1-Dichloropropene	ND	4.7	0.59
Carbon Tetrachloride	ND	4.7	0.82
1,2-Dichloroethane	ND	4.7	0.62
Benzene	ND	4.7	0.66
Trichloroethene	ND	4.7	0.74
1,2-Dichloropropane	ND	4.7	0.83
Bromodichloromethane	ND	4.7	0.79
Dibromomethane	ND	4.7	0.65
4-Methyl-2-Pentanone	ND	9.3	0.59
cis-1,3-Dichloropropene	ND	4.7	0.61
Toluene	ND	4.7	0.64
trans-1,3-Dichloropropene	ND	4.7	0.62
1,1,2-Trichloroethane	ND	4.7	0.64
2-Hexanone	ND	9.3	0.76
1,3-Dichloropropane	ND	4.7	0.60
Tetrachloroethene	ND	4.7	0.68
Dibromochloromethane	ND	4.7	0.66
1,2-Dibromoethane	ND	4.7	0.67
Chlorobenzene	ND	4.7	0.61
1,1,1,2-Tetrachloroethane	ND	4.7	0.54
Ethylbenzene	ND	4.7	0.49
m,p-Xylenes	ND	4.7	0.96
o-Xylene	ND	4.7	0.54
Styrene	ND	4.7	0.67
Bromoform	ND	4.7	0.54
Isopropylbenzene	ND	4.7	0.50
1,1,2,2-Tetrachloroethane	ND	4.7	0.64
1,2,3-Trichloropropane	ND	4.7	0.63
Propylbenzene	ND	4.7	0.54

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

6.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX360[4.0]	Diln Fac:	0.7813
Lab ID:	198903-002	Batch#:	131244
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Analyte	Result	RL	MDL
Bromobenzene	ND	4.7	0.82
1,3,5-Trimethylbenzene	ND	4.7	0.65
2-Chlorotoluene	ND	4.7	0.62
4-Chlorotoluene	ND	4.7	0.88
tert-Butylbenzene	ND	4.7	0.61
1,2,4-Trimethylbenzene	ND	4.7	0.68
sec-Butylbenzene	ND	4.7	0.70
para-Isopropyl Toluene	ND	4.7	0.63
1,3-Dichlorobenzene	ND	4.7	0.58
1,4-Dichlorobenzene	ND	4.7	0.64
n-Butylbenzene	ND	4.7	0.53
1,2-Dichlorobenzene	ND	4.7	0.84
1,2-Dibromo-3-Chloropropane	ND	4.7	0.82
1,2,4-Trichlorobenzene	ND	4.7	0.77
Hexachlorobutadiene	ND	4.7	0.53
Naphthalene	ND	4.7	0.49
1,2,3-Trichlorobenzene	ND	4.7	0.56

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	108	79-136
Toluene-d8	103	80-120
Bromofluorobenzene	90	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP110107	Diln Fac:	0.8065
Lab ID:	198903-003	Batch#:	131244
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Moisture: 15%

Analyte	Result	RL	MDL
Freon 12	ND	9.5	0.88
Chloromethane	ND	9.5	0.57
Vinyl Chloride	ND	9.5	0.47
Bromomethane	ND	9.5	0.78
Chloroethane	ND	9.5	0.78
Trichlorofluoromethane	ND	4.7	0.82
Acetone	1.2 J	19	0.74
Freon 113	ND	4.7	1.9
1,1-Dichloroethene	ND	4.7	0.31
Methylene Chloride	ND	19	0.49
Carbon Disulfide	ND	4.7	0.51
MTBE	ND	4.7	0.68
trans-1,2-Dichloroethene	ND	4.7	0.55
Vinyl Acetate	ND	47	0.65
1,1-Dichloroethane	ND	4.7	0.73
2-Butanone	ND	9.5	0.96
cis-1,2-Dichloroethene	ND	4.7	0.74
2,2-Dichloropropane	ND	4.7	0.65
Chloroform	ND	4.7	0.51
Bromochloromethane	ND	4.7	0.65
1,1,1-Trichloroethane	ND	4.7	0.43
1,1-Dichloropropene	ND	4.7	0.60
Carbon Tetrachloride	ND	4.7	0.83
1,2-Dichloroethane	ND	4.7	0.63
Benzene	ND	4.7	0.68
Trichloroethene	ND	4.7	0.76
1,2-Dichloropropane	ND	4.7	0.84
Bromodichloromethane	ND	4.7	0.80
Dibromomethane	ND	4.7	0.66
4-Methyl-2-Pentanone	ND	9.5	0.60
cis-1,3-Dichloropropene	ND	4.7	0.62
Toluene	ND	4.7	0.65
trans-1,3-Dichloropropene	ND	4.7	0.63
1,1,2-Trichloroethane	ND	4.7	0.65
2-Hexanone	ND	9.5	0.78
1,3-Dichloropropane	ND	4.7	0.61
Tetrachloroethene	ND	4.7	0.70
Dibromochloromethane	ND	4.7	0.67
1,2-Dibromoethane	ND	4.7	0.68
Chlorobenzene	ND	4.7	0.62
1,1,1,2-Tetrachloroethane	ND	4.7	0.55
Ethylbenzene	ND	4.7	0.50
m,p-Xylenes	ND	4.7	0.98
o-Xylene	ND	4.7	0.55
Styrene	ND	4.7	0.68
Bromoform	ND	4.7	0.55
Isopropylbenzene	ND	4.7	0.51
1,1,2,2-Tetrachloroethane	ND	4.7	0.65
1,2,3-Trichloropropane	ND	4.7	0.65
Propylbenzene	ND	4.7	0.55

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP110107	Diln Fac:	0.8065
Lab ID:	198903-003	Batch#:	131244
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Analyte	Result	RL	MDL
Bromobenzene	ND	4.7	0.84
1,3,5-Trimethylbenzene	ND	4.7	0.67
2-Chlorotoluene	ND	4.7	0.64
4-Chlorotoluene	ND	4.7	0.90
tert-Butylbenzene	ND	4.7	0.62
1,2,4-Trimethylbenzene	ND	4.7	0.70
sec-Butylbenzene	ND	4.7	0.72
para-Isopropyl Toluene	ND	4.7	0.64
1,3-Dichlorobenzene	ND	4.7	0.59
1,4-Dichlorobenzene	ND	4.7	0.65
n-Butylbenzene	ND	4.7	0.54
1,2-Dichlorobenzene	ND	4.7	0.86
1,2-Dibromo-3-Chloropropane	ND	4.7	0.83
1,2,4-Trichlorobenzene	ND	4.7	0.79
Hexachlorobutadiene	ND	4.7	0.54
Naphthalene	ND	4.7	0.50
1,2,3-Trichlorobenzene	ND	4.7	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	108	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	91	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX361[4.5]	Diln Fac:	1.000
Lab ID:	198903-006	Batch#:	131244
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Moisture: 19%

Analyte	Result	RL	MDL
Freon 12	ND	12	1.1
Chloromethane	ND	12	0.74
Vinyl Chloride	ND	12	0.61
Bromomethane	ND	12	1.0
Chloroethane	ND	12	1.0
Trichlorofluoromethane	ND	6.2	1.1
Acetone	1.8 J	25	0.97
Freon 113	ND	6.2	2.5
1,1-Dichloroethene	ND	6.2	0.40
Methylene Chloride	ND	25	0.64
Carbon Disulfide	ND	6.2	0.66
MTBE	ND	6.2	0.89
trans-1,2-Dichloroethene	ND	6.2	0.71
Vinyl Acetate	ND	62	0.84
1,1-Dichloroethane	ND	6.2	0.95
2-Butanone	ND	12	1.2
cis-1,2-Dichloroethene	ND	6.2	0.97
2,2-Dichloropropane	ND	6.2	0.85
Chloroform	ND	6.2	0.67
Bromochloromethane	ND	6.2	0.85
1,1,1-Trichloroethane	ND	6.2	0.56
1,1-Dichloropropene	ND	6.2	0.78
Carbon Tetrachloride	ND	6.2	1.1
1,2-Dichloroethane	ND	6.2	0.82
Benzene	ND	6.2	0.88
Trichloroethene	ND	6.2	0.98
1,2-Dichloropropane	ND	6.2	1.1
Bromodichloromethane	ND	6.2	1.0
Dibromomethane	ND	6.2	0.86
4-Methyl-2-Pentanone	ND	12	0.78
cis-1,3-Dichloropropene	ND	6.2	0.81
Toluene	ND	6.2	0.85
trans-1,3-Dichloropropene	ND	6.2	0.82
1,1,2-Trichloroethane	ND	6.2	0.85
2-Hexanone	ND	12	1.0
1,3-Dichloropropane	ND	6.2	0.80
Tetrachloroethene	ND	6.2	0.91
Dibromochloromethane	ND	6.2	0.87
1,2-Dibromoethane	ND	6.2	0.89
Chlorobenzene	ND	6.2	0.80
1,1,1,2-Tetrachloroethane	ND	6.2	0.71
Ethylbenzene	ND	6.2	0.65
m,p-Xylenes	ND	6.2	1.3
o-Xylene	ND	6.2	0.72
Styrene	ND	6.2	0.89
Bromoform	ND	6.2	0.71
Isopropylbenzene	ND	6.2	0.66
1,1,2,2-Tetrachloroethane	ND	6.2	0.85
1,2,3-Trichloropropane	ND	6.2	0.84
Propylbenzene	ND	6.2	0.71

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

8.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX361[4.5]	Diln Fac:	1.000
Lab ID:	198903-006	Batch#:	131244
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/02/07

Analyte	Result	RL	MDL
Bromobenzene	ND	6.2	1.1
1,3,5-Trimethylbenzene	ND	6.2	0.87
2-Chlorotoluene	ND	6.2	0.83
4-Chlorotoluene	ND	6.2	1.2
tert-Butylbenzene	ND	6.2	0.81
1,2,4-Trimethylbenzene	ND	6.2	0.91
sec-Butylbenzene	ND	6.2	0.93
para-Isopropyl Toluene	ND	6.2	0.83
1,3-Dichlorobenzene	ND	6.2	0.77
1,4-Dichlorobenzene	ND	6.2	0.85
n-Butylbenzene	ND	6.2	0.71
1,2-Dichlorobenzene	ND	6.2	1.1
1,2-Dibromo-3-Chloropropane	ND	6.2	1.1
1,2,4-Trichlorobenzene	ND	6.2	1.0
Hexachlorobutadiene	ND	6.2	0.70
Naphthalene	ND	6.2	0.66
1,2,3-Trichlorobenzene	ND	6.2	0.75

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	110	79-136
Toluene-d8	108	80-120
Bromofluorobenzene	89	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX362[5.5]	Diln Fac:	1.429
Lab ID:	198903-007	Batch#:	131403
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/07/07

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	17	1.6
Chloromethane	ND	17	1.0
Vinyl Chloride	ND	17	0.85
Bromomethane	ND	17	1.4
Chloroethane	ND	17	1.4
Trichlorofluoromethane	ND	8.5	1.5
Acetone	5.1 J	34	1.3
Freon 113	ND	8.5	3.5
1,1-Dichloroethene	ND	8.5	0.55
Methylene Chloride	5.9 J	34	0.88
Carbon Disulfide	ND	8.5	0.91
MTBE	ND	8.5	1.2
trans-1,2-Dichloroethene	ND	8.5	0.98
Vinyl Acetate	ND	85	1.2
1,1-Dichloroethane	ND	8.5	1.3
2-Butanone	ND	17	1.7
cis-1,2-Dichloroethene	ND	8.5	1.3
2,2-Dichloropropane	ND	8.5	1.2
Chloroform	ND	8.5	0.92
Bromochloromethane	ND	8.5	1.2
1,1,1-Trichloroethane	ND	8.5	0.77
1,1-Dichloropropene	ND	8.5	1.1
Carbon Tetrachloride	ND	8.5	1.5
1,2-Dichloroethane	ND	8.5	1.1
Benzene	ND	8.5	1.2
Trichloroethene	ND	8.5	1.4
1,2-Dichloropropane	ND	8.5	1.5
Bromodichloromethane	ND	8.5	1.4
Dibromomethane	ND	8.5	1.2
4-Methyl-2-Pentanone	ND	17	1.1
cis-1,3-Dichloropropene	ND	8.5	1.1
Toluene	ND	8.5	1.2
trans-1,3-Dichloropropene	ND	8.5	1.1
1,1,2-Trichloroethane	ND	8.5	1.2
2-Hexanone	ND	17	1.4
1,3-Dichloropropane	ND	8.5	1.1
Tetrachloroethene	ND	8.5	1.2
Dibromochloromethane	ND	8.5	1.2
1,2-Dibromoethane	ND	8.5	1.2
Chlorobenzene	ND	8.5	1.1
1,1,1,2-Tetrachloroethane	ND	8.5	0.98
Ethylbenzene	ND	8.5	0.89
m,p-Xylenes	ND	8.5	1.8
o-Xylene	ND	8.5	0.99
Styrene	ND	8.5	1.2
Bromoform	ND	8.5	0.98
Isopropylbenzene	ND	8.5	0.91
1,1,2,2-Tetrachloroethane	ND	8.5	1.2
1,2,3-Trichloropropane	ND	8.5	1.2
Propylbenzene	ND	8.5	0.98

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

72.1

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX362[5.5]	Diln Fac:	1.429
Lab ID:	198903-007	Batch#:	131403
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	dry	Analyzed:	11/07/07

Analyte	Result	RL	MDL
Bromobenzene	ND	8.5	1.5
1,3,5-Trimethylbenzene	ND	8.5	1.2
2-Chlorotoluene	ND	8.5	1.1
4-Chlorotoluene	ND	8.5	1.6
tert-Butylbenzene	ND	8.5	1.1
1,2,4-Trimethylbenzene	ND	8.5	1.3
sec-Butylbenzene	ND	8.5	1.3
para-Isopropyl Toluene	ND	8.5	1.1
1,3-Dichlorobenzene	ND	8.5	1.1
1,4-Dichlorobenzene	ND	8.5	1.2
n-Butylbenzene	ND	8.5	0.97
1,2-Dichlorobenzene	ND	8.5	1.5
1,2-Dibromo-3-Chloropropane	ND	8.5	1.5
1,2,4-Trichlorobenzene	ND	8.5	1.4
Hexachlorobutadiene	ND	8.5	0.97
Naphthalene	ND	8.5	0.90
1,2,3-Trichlorobenzene	ND	8.5	1.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	111	79-136
Toluene-d8	103	80-120
Bromofluorobenzene	89	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

72.1

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413433	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131244
Units:	ug/Kg	Analyzed:	11/02/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.93
Chloromethane	ND	10	0.60
Vinyl Chloride	ND	10	0.50
Bromomethane	ND	10	0.82
Chloroethane	ND	10	0.82
Trichlorofluoromethane	ND	5.0	0.87
Acetone	0.91 J	20	0.78
Freon 113	ND	5.0	2.0
1,1-Dichloroethene	ND	5.0	0.33
Methylene Chloride	ND	20	0.52
Carbon Disulfide	ND	5.0	0.54
MTBE	ND	5.0	0.72
trans-1,2-Dichloroethene	ND	5.0	0.58
Vinyl Acetate	ND	50	0.68
1,1-Dichloroethane	ND	5.0	0.77
2-Butanone	ND	10	1.0
cis-1,2-Dichloroethene	ND	5.0	0.78
2,2-Dichloropropane	ND	5.0	0.69
Chloroform	ND	5.0	0.54
Bromochloromethane	ND	5.0	0.68
1,1,1-Trichloroethane	ND	5.0	0.45
1,1-Dichloropropene	ND	5.0	0.64
Carbon Tetrachloride	ND	5.0	0.88
1,2-Dichloroethane	ND	5.0	0.67
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.80
1,2-Dichloropropane	ND	5.0	0.89
Bromodichloromethane	ND	5.0	0.85
Dibromomethane	ND	5.0	0.70
4-Methyl-2-Pentanone	ND	10	0.63
cis-1,3-Dichloropropene	ND	5.0	0.65
Toluene	ND	5.0	0.69
trans-1,3-Dichloropropene	ND	5.0	0.66
1,1,2-Trichloroethane	ND	5.0	0.69
2-Hexanone	ND	10	0.82
1,3-Dichloropropane	ND	5.0	0.64
Tetrachloroethene	ND	5.0	0.73
Dibromochloromethane	ND	5.0	0.70
1,2-Dibromoethane	ND	5.0	0.72
Chlorobenzene	ND	5.0	0.65
1,1,1,2-Tetrachloroethane	ND	5.0	0.58
Ethylbenzene	ND	5.0	0.52
m,p-Xylenes	ND	5.0	1.0
o-Xylene	ND	5.0	0.58
Styrene	ND	5.0	0.72
Bromoform	ND	5.0	0.58
Isopropylbenzene	ND	5.0	0.53
1,1,2,2-Tetrachloroethane	ND	5.0	0.69
1,2,3-Trichloropropane	ND	5.0	0.68
Propylbenzene	ND	5.0	0.58
Bromobenzene	ND	5.0	0.88
1,3,5-Trimethylbenzene	ND	5.0	0.70

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

10.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC413433	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131244
Units:	ug/Kg	Analyzed:	11/02/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.67
4-Chlorotoluene	ND	5.0	0.95
tert-Butylbenzene	ND	5.0	0.66
1,2,4-Trimethylbenzene	ND	5.0	0.74
sec-Butylbenzene	ND	5.0	0.76
para-Isopropyl Toluene	ND	5.0	0.68
1,3-Dichlorobenzene	ND	5.0	0.63
1,4-Dichlorobenzene	ND	5.0	0.69
n-Butylbenzene	ND	5.0	0.57
1,2-Dichlorobenzene	ND	5.0	0.90
1,2-Dibromo-3-Chloropropane	ND	5.0	0.88
1,2,4-Trichlorobenzene	ND	5.0	0.83
Hexachlorobutadiene	ND	5.0	0.57
Naphthalene	ND	5.0	0.53
1,2,3-Trichlorobenzene	ND	5.0	0.60

Surrogate	%REC	Limits
Dibromofluoromethane	88	80-124
1,2-Dichloroethane-d4	99	79-136
Toluene-d8	107	80-120
Bromofluorobenzene	91	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

10.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC414072	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131403
Units:	ug/Kg	Analyzed:	11/07/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.93
Chloromethane	ND	10	0.60
Vinyl Chloride	ND	10	0.50
Bromomethane	ND	10	0.82
Chloroethane	ND	10	0.82
Trichlorofluoromethane	ND	5.0	0.87
Acetone	ND	20	0.78
Freon 113	ND	5.0	2.0
1,1-Dichloroethene	ND	5.0	0.33
Methylene Chloride	2.9 J	20	0.52
Carbon Disulfide	ND	5.0	0.54
MTBE	ND	5.0	0.72
trans-1,2-Dichloroethene	ND	5.0	0.58
Vinyl Acetate	ND	50	0.68
1,1-Dichloroethane	ND	5.0	0.77
2-Butanone	ND	10	1.0
cis-1,2-Dichloroethene	ND	5.0	0.78
2,2-Dichloropropane	ND	5.0	0.69
Chloroform	ND	5.0	0.54
Bromochloromethane	ND	5.0	0.68
1,1,1-Trichloroethane	ND	5.0	0.45
1,1-Dichloropropene	ND	5.0	0.64
Carbon Tetrachloride	ND	5.0	0.88
1,2-Dichloroethane	ND	5.0	0.67
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.80
1,2-Dichloropropane	ND	5.0	0.89
Bromodichloromethane	ND	5.0	0.85
Dibromomethane	ND	5.0	0.70
4-Methyl-2-Pentanone	ND	10	0.63
cis-1,3-Dichloropropene	ND	5.0	0.65
Toluene	ND	5.0	0.69
trans-1,3-Dichloropropene	ND	5.0	0.66
1,1,2-Trichloroethane	ND	5.0	0.69
2-Hexanone	ND	10	0.82
1,3-Dichloropropane	ND	5.0	0.64
Tetrachloroethene	ND	5.0	0.73
Dibromochloromethane	ND	5.0	0.70
1,2-Dibromoethane	ND	5.0	0.72
Chlorobenzene	ND	5.0	0.65
1,1,1,2-Tetrachloroethane	ND	5.0	0.58
Ethylbenzene	ND	5.0	0.52
m,p-Xylenes	ND	5.0	1.0
o-Xylene	ND	5.0	0.58
Styrene	ND	5.0	0.72
Bromoform	ND	5.0	0.58
Isopropylbenzene	ND	5.0	0.53
1,1,2,2-Tetrachloroethane	ND	5.0	0.69
1,2,3-Trichloropropane	ND	5.0	0.68
Propylbenzene	ND	5.0	0.58
Bromobenzene	ND	5.0	0.88
1,3,5-Trimethylbenzene	ND	5.0	0.70

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC414072	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131403
Units:	ug/Kg	Analyzed:	11/07/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.67
4-Chlorotoluene	ND	5.0	0.95
tert-Butylbenzene	ND	5.0	0.66
1,2,4-Trimethylbenzene	ND	5.0	0.74
sec-Butylbenzene	ND	5.0	0.76
para-Isopropyl Toluene	ND	5.0	0.68
1,3-Dichlorobenzene	ND	5.0	0.63
1,4-Dichlorobenzene	ND	5.0	0.69
n-Butylbenzene	ND	5.0	0.57
1,2-Dichlorobenzene	ND	5.0	0.90
1,2-Dibromo-3-Chloropropane	ND	5.0	0.88
1,2,4-Trichlorobenzene	ND	5.0	0.83
Hexachlorobutadiene	ND	5.0	0.57
Naphthalene	ND	5.0	0.53
1,2,3-Trichlorobenzene	ND	5.0	0.60

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	104	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	89	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC413432	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131244
Units:	ug/Kg	Analyzed:	11/02/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.76	111	74-131
Benzene	25.00	27.23	109	77-121
Trichloroethene	25.00	29.40	118	77-121
Toluene	25.00	28.76	115	79-122
Chlorobenzene	25.00	27.27	109	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	84	80-124
1,2-Dichloroethane-d4	98	79-136
Toluene-d8	107	80-120
Bromofluorobenzene	81	80-122

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	131403
Basis:	as received	Analyzed:	11/07/07

Type: BS Lab ID: QC414070

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.93	96	74-131
Benzene	25.00	23.01	92	77-121
Trichloroethene	25.00	24.49	98	77-121
Toluene	25.00	24.12	96	79-122
Chlorobenzene	25.00	23.48	94	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-124
1,2-Dichloroethane-d4	101	79-136
Toluene-d8	105	80-120
Bromofluorobenzene	88	80-122

Type: BSD Lab ID: QC414071

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	22.94	92	74-131	4	20
Benzene	25.00	23.81	95	77-121	3	20
Trichloroethene	25.00	24.78	99	77-121	1	20
Toluene	25.00	24.87	99	79-122	3	20
Chlorobenzene	25.00	23.32	93	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-124
1,2-Dichloroethane-d4	104	79-136
Toluene-d8	109	80-120
Bromofluorobenzene	89	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX359[4.0]	Batch#:	131244
MSS Lab ID:	198903-001	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Analyzed:	11/02/07
Basis:	dry		

Type:	MS	Moisture:	16%
Lab ID:	QC413478	Diln Fac:	0.7576

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.3397	45.09	47.61	106	61-145
Benzene	<0.7443	45.09	43.24	96	57-123
Trichloroethene	<0.8317	45.09	45.34	101	52-141
Toluene	<0.7158	45.09	44.00	98	53-126
Chlorobenzene	<0.6803	45.09	40.22	89	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	109	79-136
Toluene-d8	106	80-120
Bromofluorobenzene	94	80-122

Type:	MSD	Moisture:	16%
Lab ID:	QC413479	Diln Fac:	0.9434

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	56.15	61.07	109	61-145	3	26
Benzene	56.15	53.51	95	57-123	1	25
Trichloroethene	56.15	57.16	102	52-141	1	26
Toluene	56.15	55.58	99	53-126	1	27
Chlorobenzene	56.15	52.11	93	49-121	4	27

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	102	79-136
Toluene-d8	103	80-120
Bromofluorobenzene	90	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9434
MSS Lab ID:	199006-001	Batch#:	131403
Matrix:	Soil	Sampled:	11/05/07
Units:	ug/Kg	Received:	11/06/07
Basis:	dry	Analyzed:	11/07/07

Type: MS
Lab ID: QC414160

Moisture: 28%

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4263	65.51	66.26	101	61-145
Benzene	<0.9339	65.51	59.61	91	57-123
Trichloroethene	<1.044	65.51	70.10	107	52-141
Toluene	<0.8981	65.51	60.49	92	53-126
Chlorobenzene	<0.8536	65.51	59.08	90	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	101	79-136
Toluene-d8	105	80-120
Bromofluorobenzene	88	80-122

Type: MSD
Lab ID: QC414161

Moisture: 28%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	65.51	67.92	104	61-145	2	26
Benzene	65.51	63.49	97	57-123	6	25
Trichloroethene	65.51	68.30	104	52-141	3	26
Toluene	65.51	64.22	98	53-126	6	27
Chlorobenzene	65.51	61.39	94	49-121	4	27

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	104	79-136
Toluene-d8	105	80-120
Bromofluorobenzene	89	80-122

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 198903 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457437048008 File : fju08 Time : 30-OCT-2007 15:16

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	52320	21.50	
75	30% - 60% of mass 95	110757	45.51	
95		243349		
96	5% - 9% of mass 95	15946	6.55	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	193258	79.42	
175	5% - 9% of mass 174	13225	6.84	
176	> 95% and < 101% of mass 174	190720	98.69	
177	5% - 9% of mass 176	12349	6.47	

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

457437048008

CURTIS & TOMPKINS BFB TUNE FOR 198903 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457441124003 File : fk203 Time : 02-NOV-2007 08:59

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	38216	19.64	
75	30% - 60% of mass 95	85096	43.73	
95		194581		
96	5% - 9% of mass 95	13534	6.96	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	169621	87.17	
175	5% - 9% of mass 174	12318	7.26	
176	> 95% and < 101% of mass 174	162794	95.98	
177	5% - 9% of mass 176	10569	6.49	

Analyst: BO Date: 11/02/07 Reviewer: LW Date: 11/05/07

457441124003

CURTIS & TOMPKINS BFB TUNE FOR 198903 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457448307002 File : fk702 Time : 07-NOV-2007 08:19

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	17946	19.62	
75	30% - 60% of mass 95	37981	41.52	
95		91466		
96	5% - 9% of mass 95	6285	6.87	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	75504	82.55	
175	5% - 9% of mass 174	5960	7.89	
176	> 95% and < 101% of mass 174	75061	99.41	
177	5% - 9% of mass 176	4482	5.97	

Analyst: BO Date: 11/07/07 Reviewer: LW Date: 11/08/07

457448307002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 MSVOA Soil: EPA 8260B

Inst : MSVOA06
Calnum : 457437048001
Units : ug/L

Name : 826GOX6S
Date : 30-OCT-2007 17:19
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fju12	457437048012	2.5PPB	30-OCT-2007 17:19	S7424 (20000X), S7425 (20000X), S7444 (1000X)
L2	fju13	457437048013	5PPB	30-OCT-2007 17:54	S7424 (10000X), S7425 (10000X), S7444 (1000X)
L3	fju14	457437048014	10PPB	30-OCT-2007 18:30	S7424 (5000X), S7425 (5000X), S7444 (1000X)
L4	fju15	457437048015	20PPB	30-OCT-2007 19:05	S7417 (25000X), S7531 (25000X), S7444 (1000X)
L5	fju16	457437048016	50PPB	30-OCT-2007 19:40	S7417 (10000X), S7531 (10000X), S7444 (1000X)
L6	fju17	457437048017	60PPB	30-OCT-2007 20:15	S7417 (8333X), S7531 (8333X), S7444 (1000X)
L7	fju18	457437048018	75PPB	30-OCT-2007 20:50	S7417 (6667X), S7531 (6667X), S7444 (1000X)
L8	fju19	457437048019	100PPB	30-OCT-2007 21:24	S7417 (5000X), S7531 (5000X), S7444 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.4830	0.4763	0.6396	0.6148	0.6037	0.5614	0.5948	AVRG		1.76164		0.5677	11	15	0.05	0.99	
Chloromethane		1.0497m	1.0167	1.1664	1.1042	1.1075	1.0371	1.0601	AVRG		0.92819		1.0774	5	15	0.10	0.99	
Vinyl Chloride	0.8684	0.8172m	0.8472	0.9767	0.8846	0.8936	0.8188	0.8468	AVRG		1.15052		0.8692	6	15	0.05	0.99	
Bromomethane		0.3422	0.3644m	0.4110	0.4119	0.3909	0.3733	0.3636	AVRG		2.63430		0.3796	7	15	0.05	0.99	
Chloroethane		0.4065	0.4302	0.4576	0.4553	0.4270	0.4021	0.3960	AVRG		2.35323		0.4249	6	15	0.05	0.99	
Trichlorofluoromethane		0.8152	0.8533	0.8814	0.8326	0.7977	0.7540	0.7788	AVRG		1.22528		0.8161	5	15	0.05	0.99	
Acetone		0.5303	0.5540	0.5463	0.5070	0.5053	0.4567	0.4542	AVRG		1.96967		0.5077	8	15	0.05	0.99	
Freon 113		0.7002	0.7460	0.6944	0.7148	0.6754	0.6175	0.6634	AVRG		1.45479		0.6874	6	15	0.05	0.99	
1,1-Dichloroethene		0.6157	0.5977	0.6015	0.5950	0.5703	0.5404	0.5637	AVRG		1.71387		0.5835	4	15	0.05	0.99	
Methylene Chloride		0.8883	0.8954	0.9431	0.9103	0.8865	0.8255	0.8518	AVRG		1.12887		0.8858	4	15	0.05	0.99	
Carbon Disulfide		2.6591	2.6660	2.7167	2.6304	2.5601	2.4176	2.5177	AVRG		0.38530		2.5954	4	15	0.05	0.99	
MTBE		2.3086	2.3206	2.3917	2.3601	2.2913	2.1479	2.1355	AVRG		0.43872		2.2794	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.7472	0.7390	0.7644	0.7262	0.7191	0.6728	0.6873	AVRG		1.38450		0.7223	5	15	0.05	0.99	
Vinyl Acetate			1.5845	2.2139	2.2794	2.2786	2.1623	2.2310	AVRG		0.47060		2.1249	13	15	0.05	0.99	
1,1-Dichloroethane		1.5711	1.5994	1.5767	1.5487	1.5144	1.3821	1.4856	AVRG		0.65555		1.5254	5	15	0.10	0.99	
2-Butanone		0.7169	0.7479	0.7739	0.7934	0.8115	0.7333	0.7416	AVRG		1.31616		0.7598	5	15	0.05	0.99	
2,2-Dichloropropane		0.7163	0.7552	0.7746	0.7941	0.7886	0.7263	0.7596	AVRG		1.31709		0.7592	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.8293	0.8436	0.8401	0.8352	0.8182	0.7721	0.7864	AVRG		1.22275		0.8178	3	15	0.05	0.99	
Chloroform		1.2733	1.3685	1.3765	1.3489	1.3364	1.2465	1.2646	AVRG		0.75965		1.3164	4	15	0.05	0.99	
Bromochloromethane		0.4063	0.4316	0.4550	0.4413	0.4406	0.4016	0.4129	AVRG		2.34167		0.4270	5	15	0.05	0.99	
1,1,1-Trichloroethane		0.8343	0.8667	0.8453	0.8387	0.8241	0.7683	0.7810	AVRG		1.21562		0.8226	4	15	0.05	0.99	
1,1-Dichloropropene		0.5708	0.5720	0.5553	0.5629	0.5504	0.5199	0.5531	AVRG		1.80211		0.5549	3	15	0.05	0.99	
Carbon Tetrachloride		0.3972	0.4218	0.4075	0.4125	0.3799	0.3636	0.3800	AVRG		2.53386		0.3947	5	15	0.05	0.99	
1,2-Dichloroethane		0.6256	0.6198	0.6291	0.6110	0.5948	0.5729	0.5736	AVRG		1.65605		0.6038	4	15	0.05	0.99	
Benzene		1.7882	1.7616	1.8074	1.7299	1.6851	1.6329	1.6795	AVRG		0.57925		1.7264	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.3990	0.4115	0.4096	0.4132	0.3968	0.3850	0.3947	AVRG		2.49122		0.4014	3	15	0.05	0.99	
1,2-Dichloropropane		0.5647	0.5474	0.5677	0.5523	0.5456	0.5291	0.5437	AVRG		1.81789		0.5501	2	15	0.05	0.99	
Bromodichloromethane		0.5672	0.6019	0.6099	0.5940	0.5904	0.5748	0.5763	AVRG		1.70127		0.5878	3	15	0.05	0.99	
Dibromomethane		0.3032	0.3240	0.3399	0.3399	0.3277	0.3199	0.3185	AVRG		3.07943		0.3247	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.7375	0.7813	0.8383	0.8693	0.8720	0.8145	0.8274	AVRG		1.21944		0.8201	6	15	0.05	0.99	
cis-1,3-Dichloropropene		0.7252	0.7271	0.7560	0.7614	0.7459	0.7062	0.7173	AVRG		1.36212		0.7342	3	15	0.05	0.99	
Toluene		0.9248	0.9871	0.9806	0.9824	0.9295	0.9023	0.8973	AVRG		1.05995		0.9434	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6209	0.6049	0.6451	0.6635	0.6385	0.6239	0.6202	AVRG		1.58477		0.6310	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.2430	0.2460	0.2533	0.2531	0.2435	0.2316	0.2327	AVRG		4.10962		0.2433	4	15	0.05	0.99	
2-Hexanone		0.6570	0.6903	0.7262	0.7392	0.7704	0.7133	0.7105	AVRG		1.39809		0.7153	5	15	0.05	0.99	
1,3-Dichloropropane		0.7761	0.8336	0.8214	0.8173	0.8253	0.7998	0.7916	AVRG		1.23566		0.8093	3	15	0.05	0.99	
Tetrachloroethene		0.4088	0.4323	0.4005	0.4122	0.4108	0.3848	0.4078	AVRG		2.45000		0.4082	3	15	0.05	0.99	
Dibromochloromethane		0.5298	0.5770	0.5724	0.5636	0.5530	0.5344	0.5320	AVRG		1.81240		0.5518	4	15	0.05	0.99	
1,2-Dibromoethane		0.4676	0.4577	0.4738	0.4812	0.4606	0.4551	0.4407	AVRG		2.16265		0.4624	3	15	0.05	0.99	
Chlorobenzene		1.1842	1.2279	1.2123	1.1973	1.1838	1.1045	1.1419	AVRG		0.84828		1.1788	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4408	0.4566	0.4557	0.4523	0.4479	0.4203	0.4228	AVRG		2.26065		0.4424	3	15	0.05	0.99	
Ethylbenzene		2.1001	2.1188	2.0598	1.9904	1.9468	1.7853	1.8375	AVRG		0.50582		1.9770	7	15	0.05	0.99	
m,p-Xylenes	0.7567	0.6981	0.7692	0.7191	0.7241	0.6927	0.6329	0.6319	AVRG		1.42233		0.7031	7	15	0.05	0.99	
o-Xylene		0.7164	0.7450	0.7296	0.7048	0.7170	0.6712	0.6731	AVRG		1.41213		0.7082	4	15	0.05	0.99	
Styrene		1.2580	1.2844	1.2626	1.2740	1.2803	1.2027	1.2082	AVRG		0.79816		1.2529	3	15	0.05	0.99	
Bromoform		0.3755	0.3925	0.4085	0.4147	0.4173	0.3909	0.3955	AVRG		2.50467		0.3993	4	15	0.10	0.99	
Isopropylbenzene		3.6837	3.6725	3.5008	3.7215	3.4584	3.2041	3.1385	AVRG		0.28713		3.4828	7	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.5792	1.6224	1.6354	1.7029	1.6236	1.4975	1.4587	AVRG		0.62951		1.5885	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.2588	1.2442	1.2898	1.2922	1.2425	1.1690	1.1043	AVRG		0.81388		1.2287	6	15	0.05	0.99	
Propylbenzene		4.9115	5.0135	4.8150	5.0145	4.5567	4.1631	4.1555	AVRG		0.21453		4.6614	8	15	0.05	0.99	
Bromobenzene		1.0312	1.0445	1.0950	1.1208	1.0479	0.9769	0.9994	AVRG		0.95684		1.0451	5	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.1579	3.1119	3.1128	3.1543	2.9069	2.7464	2.6411	AVRG		0.33603		2.9759	7	15	0.05	0.99	
2-Chlorotoluene		3.1351	3.1677	3.2980	3.3854	3.0913	2.9162	2.9002	AVRG		0.31973		3.1277	6	15	0.05	0.99	
4-Chlorotoluene		2.9854	3.1038	3.0701	3.1115	2.8395	2.7446	2.7764	AVRG		0.33929		2.9473	5	15	0.05	0.99	
tert-Butylbenzene		2.5297	2.6666	2.4707	2.5724	2.3962	2.1431	2.1653	AVRG		0.41313		2.4206	8	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.0450	3.1108	2.9700	3.2522	3.0054	2.7419	2.7052	AVRG		0.33604		2.9758	7	15	0.05	0.99	
sec-Butylbenzene		4.1444	4.1923	4.0275	4.2048	4.0096	3.5874	3.4813	AVRG		0.25319		3.9496	7	15	0.05	0.99	
para-Isopropyl Toluene		3.0770	3.2743	3.1112	3.2607	2.9427	2.7309	2.7471	AVRG		0.33106		3.0206	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8580	1.9433	1.9394	1.9239	1.8003	1.7044	1.7313	AVRG		0.54261		1.8429	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.8669	1.9023	1.9552	1.9611	1.8581	1.7359	1.7700	AVRG		0.53642		1.8642	5	15	0.05	0.99	
n-Butylbenzene		3.0304	3.1487	3.1099	3.3922	3.1023	2.8202	2.9589	AVRG		0.32464		3.0804	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.7815	1.8405	1.8277	1.8937	1.7893	1.6519	1.7151	AVRG		0.56001		1.7857	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.3052	0.3069	0.3048	0.2996	0.3048	0.2771	0.2848	AVRG		3.36013		0.2976	4	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9320	1.0170	1.0469	1.1221	1.0247	0.9792	1.0472	AVRG		0.97642		1.0241	6	15	0.05	0.99	
Hexachlorobutadiene		0.5596	0.5720	0.5712	0.5913	0.5715	0.5225	0.5526	AVRG		1.77633		0.5630	4	15	0.05	0.99	
Naphthalene		2.3188	2.5958	2.7777	2.9366	2.9060	2.7110	2.9022	AVRG		0.36557		2.7354	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		0.9408	1.0233	1.0105	1.0832	1.0244	0.9815	1.0502	AVRG		0.98401		1.0163	5	15	0.05	0.99	
Dibromofluoromethane					0.6494				AVRG		1.53999		0.6494	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.3563				AVRG		2.80644		0.3563	0	15	0.05	0.99	
Trifluorotoluene	0.5565	0.5669	0.5779	0.5843	0.5822	0.5648	0.5358	0.5703	AVRG		1.76260		0.5673	3	15	0.05	0.99	
Toluene-d8					1.0288				AVRG		0.97202		1.0288	0	15	0.05	0.99	
Bromofluorobenzene					1.1047				AVRG		0.90518		1.1047	0	15	0.05	0.99	

2025

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-15	10.00	-16	20.00	13	50.00	8	60.00	6	75.00	-1	100.0	5
Chloromethane			5.000	-3	10.00	-6	20.00	8	50.00	2	60.00	3	75.00	-4	100.0	-2
Vinyl Chloride	2.500	0	5.000	-6	10.00	-3	20.00	12	50.00	2	60.00	3	75.00	-6	100.0	-3
Bromomethane			5.000	-10	10.00	-4	20.00	8	50.00	9	60.00	3	75.00	-2	100.0	-4
Chloroethane			5.000	-4	10.00	1	20.00	8	50.00	7	60.00	0	75.00	-5	100.0	-7
Trichlorofluoromethane			5.000	0	10.00	5	20.00	8	50.00	2	60.00	-2	75.00	-8	100.0	-5
Acetone			5.000	4	10.00	9	20.00	8	50.00	0	60.00	0	75.00	-10	100.0	-11
Freon 113			5.000	2	10.00	9	20.00	1	50.00	4	60.00	-2	75.00	-10	100.0	-3
1,1-Dichloroethene			5.000	6	10.00	2	20.00	3	50.00	2	60.00	-2	75.00	-7	100.0	-3
Methylene Chloride			5.000	0	10.00	1	20.00	6	50.00	3	60.00	0	75.00	-7	100.0	-4
Carbon Disulfide			5.000	2	10.00	3	20.00	5	50.00	1	60.00	-1	75.00	-7	100.0	-3
MTBE			5.000	1	10.00	2	20.00	5	50.00	4	60.00	1	75.00	-6	100.0	-6
trans-1,2-Dichloroethene			5.000	3	10.00	2	20.00	6	50.00	1	60.00	0	75.00	-7	100.0	-5
Vinyl Acetate					10.00	-25	20.00	4	50.00	7	60.00	7	75.00	2	100.0	5
1,1-Dichloroethane			5.000	3	10.00	5	20.00	3	50.00	2	60.00	-1	75.00	-9	100.0	-3
2-Butanone			5.000	-6	10.00	-2	20.00	2	50.00	4	60.00	7	75.00	-3	100.0	-2
2,2-Dichloropropane			5.000	-6	10.00	-1	20.00	2	50.00	5	60.00	4	75.00	-4	100.0	0
cis-1,2-Dichloroethene			5.000	1	10.00	3	20.00	3	50.00	2	60.00	0	75.00	-6	100.0	-4
Chloroform			5.000	-3	10.00	4	20.00	5	50.00	2	60.00	2	75.00	-5	100.0	-4
Bromochloromethane			5.000	-5	10.00	1	20.00	7	50.00	3	60.00	3	75.00	-6	100.0	-3
1,1,1-Trichloroethane			5.000	1	10.00	5	20.00	3	50.00	2	60.00	0	75.00	-7	100.0	-5
1,1-Dichloropropene			5.000	3	10.00	3	20.00	0	50.00	1	60.00	-1	75.00	-6	100.0	0
Carbon Tetrachloride			5.000	1	10.00	7	20.00	3	50.00	5	60.00	-4	75.00	-8	100.0	-4
1,2-Dichloroethane			5.000	4	10.00	3	20.00	4	50.00	1	60.00	-1	75.00	-5	100.0	-5
Benzene			5.000	4	10.00	2	20.00	5	50.00	0	60.00	-2	75.00	-5	100.0	-3
Trichloroethene			5.000	-1	10.00	3	20.00	2	50.00	3	60.00	-1	75.00	-4	100.0	-2
1,2-Dichloropropane			5.000	3	10.00	0	20.00	3	50.00	0	60.00	-1	75.00	-4	100.0	-1
Bromodichloromethane			5.000	-4	10.00	2	20.00	4	50.00	1	60.00	0	75.00	-2	100.0	-2
Dibromomethane			5.000	-7	10.00	0	20.00	5	50.00	5	60.00	1	75.00	-1	100.0	-2
4-Methyl-2-Pentanone			5.000	-10	10.00	-5	20.00	2	50.00	6	60.00	6	75.00	-1	100.0	1
cis-1,3-Dichloropropene			5.000	-1	10.00	-1	20.00	3	50.00	4	60.00	2	75.00	-4	100.0	-2
Toluene			5.000	-2	10.00	5	20.00	4	50.00	4	60.00	-1	75.00	-4	100.0	-5
trans-1,3-Dichloropropene			5.000	-2	10.00	-4	20.00	2	50.00	5	60.00	1	75.00	-1	100.0	-2
1,1,2-Trichloroethane			5.000	0	10.00	1	20.00	4	50.00	4	60.00	0	75.00	-5	100.0	-4
2-Hexanone			5.000	-8	10.00	-3	20.00	2	50.00	3	60.00	8	75.00	0	100.0	-1
1,3-Dichloropropane			5.000	-4	10.00	3	20.00	1	50.00	1	60.00	2	75.00	-1	100.0	-2
Tetrachloroethene			5.000	0	10.00	6	20.00	-2	50.00	1	60.00	1	75.00	-6	100.0	0
Dibromochloromethane			5.000	-4	10.00	5	20.00	4	50.00	2	60.00	0	75.00	-3	100.0	-4
1,2-Dibromoethane			5.000	1	10.00	-1	20.00	2	50.00	4	60.00	0	75.00	-2	100.0	-5
Chlorobenzene			5.000	0	10.00	4	20.00	3	50.00	2	60.00	0	75.00	-6	100.0	-3
1,1,1,2-Tetrachloroethane			5.000	0	10.00	3	20.00	3	50.00	2	60.00	1	75.00	-5	100.0	-4
Ethylbenzene			5.000	6	10.00	7	20.00	4	50.00	1	60.00	-2	75.00	-10	100.0	-7

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	8	10.00	-1	20.00	9	40.00	2	100.0	3	120.0	-1	150.0	-10	200.0	-10
o-Xylene			5.000	1	10.00	5	20.00	3	50.00	0	60.00	1	75.00	-5	100.0	-5
Styrene			5.000	0	10.00	3	20.00	1	50.00	2	60.00	2	75.00	-4	100.0	-4
Bromoform			5.000	-6	10.00	-2	20.00	2	50.00	4	60.00	5	75.00	-2	100.0	-1
Isopropylbenzene			5.000	6	10.00	5	20.00	1	50.00	7	60.00	-1	75.00	-8	100.0	-10
1,1,2,2-Tetrachloroethane			5.000	-1	10.00	2	20.00	3	50.00	7	60.00	2	75.00	-6	100.0	-8
1,2,3-Trichloropropane			5.000	2	10.00	1	20.00	5	50.00	5	60.00	1	75.00	-5	100.0	-10
Propylbenzene			5.000	5	10.00	8	20.00	3	50.00	8	60.00	-2	75.00	-11	100.0	-11
Bromobenzene			5.000	-1	10.00	0	20.00	5	50.00	7	60.00	0	75.00	-7	100.0	-4
1,3,5-Trimethylbenzene			5.000	6	10.00	5	20.00	5	50.00	6	60.00	-2	75.00	-8	100.0	-11
2-Chlorotoluene			5.000	0	10.00	1	20.00	5	50.00	8	60.00	-1	75.00	-7	100.0	-7
4-Chlorotoluene			5.000	1	10.00	5	20.00	4	50.00	6	60.00	-4	75.00	-7	100.0	-6
tert-Butylbenzene			5.000	5	10.00	10	20.00	2	50.00	6	60.00	-1	75.00	-11	100.0	-11
1,2,4-Trimethylbenzene			5.000	2	10.00	5	20.00	0	50.00	9	60.00	1	75.00	-8	100.0	-9
sec-Butylbenzene			5.000	5	10.00	6	20.00	2	50.00	6	60.00	2	75.00	-9	100.0	-12
para-Isopropyl Toluene			5.000	2	10.00	8	20.00	3	50.00	8	60.00	-3	75.00	-10	100.0	-9
1,3-Dichlorobenzene			5.000	1	10.00	5	20.00	5	50.00	4	60.00	-2	75.00	-8	100.0	-6
1,4-Dichlorobenzene			5.000	0	10.00	2	20.00	5	50.00	5	60.00	0	75.00	-7	100.0	-5
n-Butylbenzene			5.000	-2	10.00	2	20.00	1	50.00	10	60.00	1	75.00	-8	100.0	-4
1,2-Dichlorobenzene			5.000	0	10.00	3	20.00	2	50.00	6	60.00	0	75.00	-7	100.0	-4
1,2-Dibromo-3-Chloropropane			5.000	3	10.00	3	20.00	2	50.00	1	60.00	2	75.00	-7	100.0	-4
1,2,4-Trichlorobenzene			5.000	-9	10.00	-1	20.00	2	50.00	10	60.00	0	75.00	-4	100.0	2
Hexachlorobutadiene			5.000	-1	10.00	2	20.00	1	50.00	5	60.00	2	75.00	-7	100.0	-2
Naphthalene			5.000	-15	10.00	-5	20.00	2	50.00	7	60.00	6	75.00	-1	100.0	6
1,2,3-Trichlorobenzene			5.000	-7	10.00	1	20.00	-1	50.00	7	60.00	1	75.00	-3	100.0	3
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene	2.500	-2	5.000	0	10.00	2	20.00	3	50.00	3	60.00	0	75.00	-6	100.0	1
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Name : 826GOX6S
Calnum : 457437048001 Cal Date : 30-OCT-2007 Type : SOIL

ICV 457437048020 (fju20 30-OCT-2007) stds: S7415 (10000X), S7444 (1000X)
ICV 457437048021 (fju21 30-OCT-2007) stds: S7480 (10000X), S7498 (10000X), S7444 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	457437048020	0.5677	0.6702	25.00	29.52	ug/L	18	20	
Chloromethane	457437048020	1.0774	1.1481	25.00	26.64	ug/L	7	20	
Vinyl Chloride	457437048020	0.8692	0.8598	25.00	24.73	ug/L	-1	20	
Bromomethane	457437048020	0.3796	0.3719	25.00	24.49	ug/L	-2	20	
Chloroethane	457437048020	0.4249	0.4128	25.00	24.28	ug/L	-3	20	
Trichlorofluoromethane	457437048020	0.8161	0.7975	25.00	24.43	ug/L	-2	20	
Acetone	457437048021	0.5077	0.4678	25.00	23.04	ug/L	-8	30	
Freon 113	457437048021	0.6874	0.5766	25.00	20.97	ug/L	-16	20	
1,1-Dichloroethene	457437048021	0.5835	0.5637	25.00	24.15	ug/L	-3	20	
Methylene Chloride	457437048021	0.8858	0.9055	25.00	25.55	ug/L	2	20	
Carbon Disulfide	457437048021	2.5954	2.2413	25.00	21.59	ug/L	-14	20	
MTBE	457437048021	2.2794	2.1453	25.00	23.53	ug/L	-6	20	
trans-1,2-Dichloroethene	457437048021	0.7223	0.6725	25.00	23.28	ug/L	-7	20	
Vinyl Acetate	457437048021	2.1249	1.7340	25.00	20.40	ug/L	-18	30	
1,1-Dichloroethane	457437048021	1.5254	1.4580	25.00	23.89	ug/L	-4	20	
2-Butanone	457437048021	0.7598	0.6752	25.00	22.22	ug/L	-11	30	
2,2-Dichloropropane	457437048021	0.7592	0.6759	25.00	22.25	ug/L	-11	20	
cis-1,2-Dichloroethene	457437048021	0.8178	0.8096	25.00	24.75	ug/L	-1	20	
Chloroform	457437048021	1.3164	1.2723	25.00	24.16	ug/L	-3	20	
Bromochloromethane	457437048021	0.4270	0.4309	25.00	25.23	ug/L	1	20	
1,1,1-Trichloroethane	457437048021	0.8226	0.7588	25.00	23.06	ug/L	-8	20	
1,1-Dichloropropene	457437048021	0.5549	0.5434	25.00	24.48	ug/L	-2	20	
Carbon Tetrachloride	457437048021	0.3947	0.3661	25.00	23.19	ug/L	-7	20	
1,2-Dichloroethane	457437048021	0.6038	0.5769	25.00	23.88	ug/L	-4	20	
Benzene	457437048021	1.7264	1.7408	25.00	25.21	ug/L	1	20	
Trichloroethene	457437048021	0.4014	0.3979	25.00	24.78	ug/L	-1	20	
1,2-Dichloropropane	457437048021	0.5501	0.5434	25.00	24.70	ug/L	-1	20	
Bromodichloromethane	457437048021	0.5878	0.5885	25.00	25.03	ug/L	0	20	
Dibromomethane	457437048021	0.3247	0.3297	25.00	25.38	ug/L	2	20	
4-Methyl-2-Pentanone	457437048021	0.8201	0.7989	25.00	24.35	ug/L	-3	30	
cis-1,3-Dichloropropene	457437048021	0.7342	0.7337	25.00	24.99	ug/L	0	20	
Toluene	457437048021	0.9434	0.9396	25.00	24.90	ug/L	0	20	
trans-1,3-Dichloropropene	457437048021	0.6310	0.5882	25.00	23.31	ug/L	-7	20	
1,1,2-Trichloroethane	457437048021	0.2433	0.2486	25.00	25.54	ug/L	2	20	
2-Hexanone	457437048021	0.7153	0.6865	25.00	24.00	ug/L	-4	30	
1,3-Dichloropropane	457437048021	0.8093	0.8311	25.00	25.67	ug/L	3	20	
Tetrachloroethene	457437048021	0.4082	0.4017	25.00	24.61	ug/L	-2	20	
Dibromochloromethane	457437048021	0.5518	0.5246	25.00	23.77	ug/L	-5	20	
1,2-Dibromoethane	457437048021	0.4624	0.4532	25.00	24.50	ug/L	-2	20	
Chlorobenzene	457437048021	1.1788	1.1662	25.00	24.73	ug/L	-1	20	
1,1,1,2-Tetrachloroethane	457437048021	0.4424	0.4382	25.00	24.77	ug/L	-1	20	
Ethylbenzene	457437048021	1.9770	1.9871	25.00	25.13	ug/L	1	20	
m,p-Xylenes	457437048021	0.7031	0.6993	50.00	49.73	ug/L	-1	20	
o-Xylene	457437048021	0.7082	0.6981	25.00	24.64	ug/L	-1	20	
Styrene	457437048021	1.2529	1.2673	25.00	25.29	ug/L	1	20	
Bromoform	457437048021	0.3993	0.3984	25.00	24.95	ug/L	0	20	
Isopropylbenzene	457437048021	3.4828	3.0953	25.00	22.22	ug/L	-11	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	457437048021	1.5885	1.5201	25.00	23.92	ug/L	-4	20	
1,2,3-Trichloropropane	457437048021	1.2287	1.1557	25.00	23.52	ug/L	-6	20	
Propylbenzene	457437048021	4.6614	4.4572	25.00	23.90	ug/L	-4	20	
Bromobenzene	457437048021	1.0451	1.0693	25.00	25.58	ug/L	2	20	
1,3,5-Trimethylbenzene	457437048021	2.9759	2.8797	25.00	24.19	ug/L	-3	20	
2-Chlorotoluene	457437048021	3.1277	3.1246	25.00	24.98	ug/L	0	20	
4-Chlorotoluene	457437048021	2.9473	2.7292	25.00	23.15	ug/L	-7	20	
tert-Butylbenzene	457437048021	2.4206	2.3113	25.00	23.87	ug/L	-5	20	
1,2,4-Trimethylbenzene	457437048021	2.9758	3.0098	25.00	25.29	ug/L	1	20	
sec-Butylbenzene	457437048021	3.9496	3.7783	25.00	23.92	ug/L	-4	20	
para-Isopropyl Toluene	457437048021	3.0206	2.8190	25.00	23.33	ug/L	-7	20	
1,3-Dichlorobenzene	457437048021	1.8429	1.7093	25.00	23.19	ug/L	-7	20	
1,4-Dichlorobenzene	457437048021	1.8642	1.7564	25.00	23.55	ug/L	-6	20	
n-Butylbenzene	457437048021	3.0804	2.8291	25.00	22.96	ug/L	-8	20	
1,2-Dichlorobenzene	457437048021	1.7857	1.7425	25.00	24.40	ug/L	-2	20	
1,2-Dibromo-3-Chloropropane	457437048021	0.2976	0.2717	25.00	22.83	ug/L	-9	20	
1,2,4-Trichlorobenzene	457437048021	1.0241	0.9461	25.00	23.10	ug/L	-8	20	
Hexachlorobutadiene	457437048021	0.5630	0.5470	25.00	24.29	ug/L	-3	20	
Naphthalene	457437048021	2.7354	2.5660	25.00	23.45	ug/L	-6	20	
1,2,3-Trichlorobenzene	457437048021	1.0163	0.9974	25.00	24.54	ug/L	-2	20	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : 20PPB IDF : 1.0
Seqnum : 457441124004.1 File : fk204 Time : 02-NOV-2007 09:15
Cal : 457437048001 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (25000X), S7403 (25000X), S7444 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5677	0.6296	20.00	22.18	ug/L	11	20	0.0500	
Chloromethane	1.0774	1.0633	20.00	19.74	ug/L	-1	20	0.1000	
Vinyl Chloride	0.8692	0.8943	20.00	20.58	ug/L	3	20	0.0500	
Bromomethane	0.3796	0.3701	20.00	19.50	ug/L	-2	20	0.0500	
Chloroethane	0.4249	0.4160	20.00	19.58	ug/L	-2	20	0.0500	
Trichlorofluoromethane	0.8161	0.8914	20.00	21.84	ug/L	9	20	0.0500	
Acetone	0.5077	0.5395	20.00	21.25	ug/L	6	30	0.0500	
Freon 113	0.6874	0.6068	20.00	17.66	ug/L	-12	20	0.0500	
1,1-Dichloroethene	0.5835	0.5266	20.00	18.05	ug/L	-10	20	0.0500	
Methylene Chloride	0.8858	0.8154	20.00	18.41	ug/L	-8	20	0.0500	
Carbon Disulfide	2.5954	2.2424	20.00	17.28	ug/L	-14	20	0.0500	
MTBE	2.2794	2.0951	20.00	18.38	ug/L	-8	20	0.0500	
trans-1,2-Dichloroethene	0.7223	0.6662	20.00	18.45	ug/L	-8	20	0.0500	
Vinyl Acetate	2.1249	2.0857	20.00	19.63	ug/L	-2	30	0.0500	
1,1-Dichloroethane	1.5254	1.3312	20.00	17.45	ug/L	-13	20	0.1000	
2-Butanone	0.7598	0.7412	20.00	19.51	ug/L	-2	30	0.0500	
2,2-Dichloropropane	0.7592	0.7542	20.00	19.87	ug/L	-1	20	0.0500	
cis-1,2-Dichloroethene	0.8178	0.7425	20.00	18.16	ug/L	-9	20	0.0500	
Chloroform	1.3164	1.2011	20.00	18.25	ug/L	-9	20	0.0500	
Bromochloromethane	0.4270	0.3918	20.00	18.35	ug/L	-8	20	0.0500	
1,1,1-Trichloroethane	0.8226	0.7328	20.00	17.82	ug/L	-11	20	0.0500	
1,1-Dichloropropene	0.5549	0.5454	20.00	19.66	ug/L	-2	20	0.0500	
Carbon Tetrachloride	0.3947	0.3647	20.00	18.48	ug/L	-8	20	0.0500	
1,2-Dichloroethane	0.6038	0.5756	20.00	19.07	ug/L	-5	20	0.0500	
Benzene	1.7264	1.7102	20.00	19.81	ug/L	-1	20	0.0500	
Trichloroethene	0.4014	0.4097	20.00	20.41	ug/L	2	20	0.0500	
1,2-Dichloropropane	0.5501	0.5484	20.00	19.94	ug/L	0	20	0.0500	
Bromodichloromethane	0.5878	0.5693	20.00	19.37	ug/L	-3	20	0.0500	
Dibromomethane	0.3247	0.3282	20.00	20.21	ug/L	1	20	0.0500	
4-Methyl-2-Pentanone	0.8201	0.8563	20.00	20.88	ug/L	4	30	0.0500	
cis-1,3-Dichloropropene	0.7342	0.7561	20.00	20.60	ug/L	3	20	0.0500	
Toluene	0.9434	0.9762	20.00	20.69	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.6310	0.6493	20.00	20.58	ug/L	3	20	0.0500	
1,1,2-Trichloroethane	0.2433	0.2332	20.00	19.17	ug/L	-4	20	0.0500	
2-Hexanone	0.7153	0.7429	20.00	20.77	ug/L	4	30	0.0500	
1,3-Dichloropropane	0.8093	0.8187	20.00	20.23	ug/L	1	20	0.0500	
Tetrachloroethene	0.4082	0.4625	20.00	22.67	ug/L	13	20	0.0500	
Dibromochloromethane	0.5518	0.5393	20.00	19.55	ug/L	-2	20	0.0500	
1,2-Dibromoethane	0.4624	0.4438	20.00	19.20	ug/L	-4	20	0.0500	
Chlorobenzene	1.1788	1.1762	20.00	19.96	ug/L	0	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4424	0.4192	20.00	18.95	ug/L	-5	20	0.0500	
Ethylbenzene	1.9770	1.9558	20.00	19.79	ug/L	-1	20	0.0500	
m,p-Xylenes	0.7031	0.7049	40.00	40.11	ug/L	0	20	0.0500	
o-Xylene	0.7082	0.7015	20.00	19.81	ug/L	-1	20	0.0500	
Styrene	1.2529	1.2590	20.00	20.10	ug/L	0	20	0.0500	
Bromoform	0.3993	0.4224	20.00	21.16	ug/L	6	20	0.1000	
Isopropylbenzene	3.4828	3.2297	20.00	18.55	ug/L	-7	20	0.0500	
1,1,2,2-Tetrachloroethane	1.5885	1.4919	20.00	18.78	ug/L	-6	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	1.2287	1.1327	20.00	18.44	ug/L	-8	20	0.0500	
Propylbenzene	4.6614	4.3633	20.00	18.72	ug/L	-6	20	0.0500	
Bromobenzene	1.0451	1.0819	20.00	20.70	ug/L	4	20	0.0500	
1,3,5-Trimethylbenzene	2.9759	2.7292	20.00	18.34	ug/L	-8	20	0.0500	
2-Chlorotoluene	3.1277	2.9898	20.00	19.12	ug/L	-4	20	0.0500	
4-Chlorotoluene	2.9473	2.8486	20.00	19.33	ug/L	-3	20	0.0500	
tert-Butylbenzene	2.4206	2.1997	20.00	18.18	ug/L	-9	20	0.0500	
1,2,4-Trimethylbenzene	2.9758	2.7874	20.00	18.73	ug/L	-6	20	0.0500	
sec-Butylbenzene	3.9496	3.5183	20.00	17.82	ug/L	-11	20	0.0500	
para-Isopropyl Toluene	3.0206	2.8084	20.00	18.60	ug/L	-7	20	0.0500	
1,3-Dichlorobenzene	1.8429	1.9010	20.00	20.63	ug/L	3	20	0.0500	
1,4-Dichlorobenzene	1.8642	1.9227	20.00	20.63	ug/L	3	20	0.0500	
n-Butylbenzene	3.0804	2.7862	20.00	18.09	ug/L	-10	20	0.0500	
1,2-Dichlorobenzene	1.7857	1.8111	20.00	20.28	ug/L	1	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2976	0.2446	20.00	16.44	ug/L	-18	20	0.0500	
1,2,4-Trichlorobenzene	1.0241	1.0136	20.00	19.79	ug/L	-1	20	0.0500	
Hexachlorobutadiene	0.5630	0.5360	20.00	19.04	ug/L	-5	20	0.0500	
Naphthalene	2.7354	2.1738	20.00	15.89	ug/L	**-21**	20	0.0500	c- ***
1,2,3-Trichlorobenzene	1.0163	0.9763	20.00	19.21	ug/L	-4	20	0.0500	
Dibromofluoromethane	0.6494	0.5752	50.00	44.29	ug/L	-11	20	0.0500	
1,2-Dichloroethane-d4	0.3563	0.3656	50.00	51.31	ug/L	3	20	0.0500	
Trifluorotoluene	0.5673	0.6011	20.00	21.19	ug/L	6	20	0.0500	
Toluene-d8	1.0288	1.0869	50.00	52.82	ug/L	6	20	0.0500	
Bromofluorobenzene	1.1047	1.0279	50.00	46.52	ug/L	-7	20	0.0500	

ISTD (ICAL fju16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	647926	806975	24.55	11.95	11.95	0.01
1,4-Difluorobenzene	1140261	1299628	13.98	13.26	13.27	0.02
Chlorobenzene-d5	1005164	1146309	14.04	17.97	17.98	0.01
1,4-Dichlorobenzene-d4	467848	562807	20.30	20.83	20.83	0.00

Analyst: WNH Date: 11/05/07 Reviewer: TEW Date: 11/06/07

-=low bias c=CCV

457441124004.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : 30PPB IDF : 1.0
Seqnum : 457448307003.2 File : fk703 Time : 07-NOV-2007 08:36
Cal : 457437048001 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (16670X), S7403 (16670X), S7444 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5677	0.6813	30.00	36.01	ug/L	20	20	0.0500	
Chloromethane	1.0774	1.1508	30.00	32.05	ug/L	7	20	0.1000	
Vinyl Chloride	0.8692	0.9069	30.00	31.30	ug/L	4	20	0.0500	
Bromomethane	0.3796	0.4223	30.00	33.37	ug/L	11	20	0.0500	
Chloroethane	0.4249	0.4506	30.00	31.81	ug/L	6	20	0.0500	
Trichlorofluoromethane	0.8161	0.9445	30.00	34.72	ug/L	16	20	0.0500	
Acetone	0.5077	0.5082	30.00	30.03	ug/L	0	30	0.0500	
Freon 113	0.6874	0.6991	30.00	30.51	ug/L	2	20	0.0500	
1,1-Dichloroethene	0.5835	0.5857	30.00	30.11	ug/L	0	20	0.0500	
Methylene Chloride	0.8858	0.9575	30.00	32.43	ug/L	8	20	0.0500	
Carbon Disulfide	2.5954	2.4150	30.00	27.91	ug/L	-7	20	0.0500	
MTBE	2.2794	2.0649	30.00	27.18	ug/L	-9	20	0.0500	
trans-1,2-Dichloroethene	0.7223	0.7146	30.00	29.68	ug/L	-1	20	0.0500	
Vinyl Acetate	2.1249	1.9424	30.00	27.42	ug/L	-9	30	0.0500	
1,1-Dichloroethane	1.5254	1.3923	30.00	27.38	ug/L	-9	20	0.1000	
2-Butanone	0.7598	0.6376	30.00	25.17	ug/L	-16	30	0.0500	
2,2-Dichloropropane	0.7592	0.8188	30.00	32.35	ug/L	8	20	0.0500	
cis-1,2-Dichloroethene	0.8178	0.7625	30.00	27.97	ug/L	-7	20	0.0500	
Chloroform	1.3164	1.1890	30.00	27.10	ug/L	-10	20	0.0500	
Bromochloromethane	0.4270	0.3923	30.00	27.56	ug/L	-8	20	0.0500	
1,1,1-Trichloroethane	0.8226	0.8141	30.00	29.69	ug/L	-1	20	0.0500	
1,1-Dichloropropene	0.5549	0.5742	30.00	31.04	ug/L	3	20	0.0500	
Carbon Tetrachloride	0.3947	0.4029	30.00	30.63	ug/L	2	20	0.0500	
1,2-Dichloroethane	0.6038	0.5470	30.00	27.18	ug/L	-9	20	0.0500	
Benzene	1.7264	1.6763	30.00	29.13	ug/L	-3	20	0.0500	
Trichloroethene	0.4014	0.4223	30.00	31.56	ug/L	5	20	0.0500	
1,2-Dichloropropane	0.5501	0.5114	30.00	27.89	ug/L	-7	20	0.0500	
Bromodichloromethane	0.5878	0.5523	30.00	28.19	ug/L	-6	20	0.0500	
Dibromomethane	0.3247	0.3029	30.00	27.98	ug/L	-7	20	0.0500	
4-Methyl-2-Pentanone	0.8201	0.7356	30.00	26.91	ug/L	-10	30	0.0500	
cis-1,3-Dichloropropene	0.7342	0.7141	30.00	29.18	ug/L	-3	20	0.0500	
Toluene	0.9434	0.9518	30.00	30.27	ug/L	1	20	0.0500	
trans-1,3-Dichloropropene	0.6310	0.5970	30.00	28.38	ug/L	-5	20	0.0500	
1,1,2-Trichloroethane	0.2433	0.2224	30.00	27.42	ug/L	-9	20	0.0500	
2-Hexanone	0.7153	0.6072	30.00	25.47	ug/L	-15	30	0.0500	
1,3-Dichloropropane	0.8093	0.7260	30.00	26.91	ug/L	-10	20	0.0500	
Tetrachloroethene	0.4082	0.4631	30.00	34.04	ug/L	13	20	0.0500	
Dibromochloromethane	0.5518	0.4981	30.00	27.08	ug/L	-10	20	0.0500	
1,2-Dibromoethane	0.4624	0.4267	30.00	27.68	ug/L	-8	20	0.0500	
Chlorobenzene	1.1788	1.1544	30.00	29.38	ug/L	-2	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4424	0.3963	30.00	26.88	ug/L	-10	20	0.0500	
Ethylbenzene	1.9770	1.9335	30.00	29.34	ug/L	-2	20	0.0500	
m,p-Xylenes	0.7031	0.7284	60.00	62.16	ug/L	4	20	0.0500	
o-Xylene	0.7082	0.7209	30.00	30.54	ug/L	2	20	0.0500	
Styrene	1.2529	1.2574	30.00	30.11	ug/L	0	20	0.0500	
Bromoform	0.3993	0.3712	30.00	27.89	ug/L	-7	20	0.1000	
Isopropylbenzene	3.4828	3.3238	30.00	28.63	ug/L	-5	20	0.0500	
1,1,2,2-Tetrachloroethane	1.5885	1.2701	30.00	23.99	ug/L	-20	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	1.2287	1.0055	30.00	24.55	ug/L	-18	20	0.0500	
Propylbenzene	4.6614	4.4735	30.00	28.79	ug/L	-4	20	0.0500	
Bromobenzene	1.0451	1.0352	30.00	29.72	ug/L	-1	20	0.0500	
1,3,5-Trimethylbenzene	2.9759	2.8523	30.00	28.75	ug/L	-4	20	0.0500	
2-Chlorotoluene	3.1277	2.9720	30.00	28.51	ug/L	-5	20	0.0500	
4-Chlorotoluene	2.9473	2.7949	30.00	28.45	ug/L	-5	20	0.0500	
tert-Butylbenzene	2.4206	2.3612	30.00	29.26	ug/L	-2	20	0.0500	
1,2,4-Trimethylbenzene	2.9758	2.9148	30.00	29.38	ug/L	-2	20	0.0500	
sec-Butylbenzene	3.9496	3.8462	30.00	29.21	ug/L	-3	20	0.0500	
para-Isopropyl Toluene	3.0206	3.0602	30.00	30.39	ug/L	1	20	0.0500	
1,3-Dichlorobenzene	1.8429	1.9197	30.00	31.25	ug/L	4	20	0.0500	
1,4-Dichlorobenzene	1.8642	1.8827	30.00	30.30	ug/L	1	20	0.0500	
n-Butylbenzene	3.0804	3.0796	30.00	29.99	ug/L	0	20	0.0500	
1,2-Dichlorobenzene	1.7857	1.7619	30.00	29.60	ug/L	-1	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2976	0.2320	30.00	23.38	ug/L	**-22**	20	0.0500	c- ***
1,2,4-Trichlorobenzene	1.0241	1.1504	30.00	33.70	ug/L	12	20	0.0500	
Hexachlorobutadiene	0.5630	0.6215	30.00	33.12	ug/L	10	20	0.0500	
Naphthalene	2.7354	2.3480	30.00	25.75	ug/L	-14	20	0.0500	
1,2,3-Trichlorobenzene	1.0163	1.0634	30.00	31.39	ug/L	5	20	0.0500	
Dibromofluoromethane	0.6494	0.6012	50.00	46.29	ug/L	-7	20	0.0500	
1,2-Dichloroethane-d4	0.3563	0.3676	50.00	51.59	ug/L	3	20	0.0500	
Trifluorotoluene	0.5673	0.6343	30.00	33.54	ug/L	12	20	0.0500	
Toluene-d8	1.0288	1.0891	50.00	52.93	ug/L	6	20	0.0500	
Bromofluorobenzene	1.1047	1.0269	50.00	46.48	ug/L	-7	20	0.0500	

ISTD (ICAL fju16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	647926	875159	35.07	11.95	11.95	0.01
1,4-Difluorobenzene	1140261	1465180	28.50	13.26	13.26	0.01
Chlorobenzene-d5	1005164	1319076	31.23	17.97	17.98	0.01
1,4-Dichlorobenzene-d4	467848	675301	44.34	20.83	20.83	0.00

Analyst: BO Date: 11/08/07 Reviewer: WNH Date: 11/09/07

-=low bias c=CCV

457448307003.2

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 457441124

Date : 11/02/07 Reference : fju16
Sequence : MSVOA06 fk2 Analyzed : 10/30/07 19:40

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	647926	11.95	1140261	13.26	1005164	17.97	467848	20.83
		LOWER LIMIT	323963	11.45	570131	12.76	502582	17.47	233924	20.33
		UPPER LIMIT	1295852	12.45	2280522	13.76	2010328	18.47	935696	21.33
004	CCV	20PPB	806975	11.95	1299628	13.27	1146309	17.98	562807	20.83
005	LCS	QC413432	705483	11.95	1082871	13.26	976617	17.99	608058	20.84
007	BLANK	QC413433	665875	11.95	1075809	13.26	963584	17.98	521830	20.82
008	SAMPLE	198900-001	677677	11.94	1106573	13.25	976415	17.98	557746	20.83
009	SAMPLE	198900-002	698801	11.94	1144261	13.25	1041892	17.98	570060	20.83
010	SAMPLE	198900-003	697558	11.95	1174822	13.26	1065324	17.98	564776	20.83
011	SAMPLE	198900-004	714080	11.95	1177609	13.26	1093890	17.98	567742	20.83
012	SAMPLE	198829-004	768849	11.95	1224510	13.26	1133600	17.99	597762	20.83
013	SAMPLE	198843-001	723535	11.95	1235850	13.27	1112255	17.99	584190	20.83
014	MSS	198903-001	741974	11.95	1259516	13.27	1135674	17.99	601444	20.83
015	SAMPLE	198903-002	746373	11.96	1276822	13.27	1138315	17.99	602511	20.84
016	SAMPLE	198903-003	766501	11.95	1306988	13.26	1148513	17.98	617973	20.83
017	SAMPLE	198903-006	779080	11.95	1263338	13.26	1178519	17.98	632172	20.84
018	SAMPLE	198837-001	823871	11.96	1399650	13.27	1272779	17.98	651889	20.83
019	SAMPLE	198797-005	757905	11.95	1264158	13.26	1131206	17.98	590018	20.83
020	SAMPLE	198797-006	761799	11.95	1255911	13.26	1140187	17.99	597564	20.83
021	SAMPLE	198797-007	758573	11.95	1226403	13.26	1104994	17.98	569032	20.84
022	MS	QC413478	809865	11.95	1349644	13.26	1225713	17.98	643320	20.83
023	MSD	QC413479	797836	11.94	1354563	13.26	1218281	17.98	646897	20.83
032	SAMPLE	198538-004	731251	11.95	1181050	13.26	1016390	17.98	516016	20.84

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 457448307

Date : 11/07/07
Sequence : MSVOA06 fk7

Reference : fju16
Analyzed : 10/30/07 19:40

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	647926	11.95	1140261	13.26	1005164	17.97	467848	20.83
		LOWER LIMIT	323963	11.45	570131	12.76	502582	17.47	233924	20.33
		UPPER LIMIT	1295852	12.45	2280522	13.76	2010328	18.47	935696	21.33
003	CCV	30PPB	875159	11.95	1465180	13.26	1319076	17.98	675301	20.83
006	BS	QC414070	865365	11.96	1401799	13.26	1249215	17.99	676675	20.83
007	BSD	QC414071	884884	11.95	1400772	13.26	1278996	17.98	679693	20.84
009	BLANK	QC414072	928245	11.96	1525764	13.27	1365523	17.98	711471	20.84
010	MSS	199006-001	880833	11.96	1488702	13.27	1315598	17.99	694466	20.83
011	SAMPLE	198903-007	910696	11.95	1549763	13.26	1393776	17.98	742549	20.84
012	SAMPLE	198881-006	925878	11.94	1550780	13.25	1386588	17.99	756113	20.84
013	SAMPLE	198881-017	900019	11.95	1449060	13.26	1293733	17.99	689604	20.83
014	SAMPLE	198965-001	910100	11.95	1499466	13.26	1304723	17.98	635345	20.83
015	SAMPLE	198921-001	909906	11.95	1476935	13.26	1321660	17.98	718278	20.83
016	SAMPLE	198881-006	898462	11.95	1376003	13.26	1271705	17.98	682949	20.83
018	SAMPLE	198921-002	877892	11.95	1432412	13.26	1295956	17.98	686635	20.84
019	SAMPLE	199003-005	905631	11.95	1469313	13.26	1233752	17.98	699199	20.83
020	SAMPLE	199003-010	901906	11.95	1496819	13.26	1342622	17.98	714351	20.83
021	MS	QC414160	929219	11.95	1563682	13.26	1381580	17.98	754566	20.84
022	MSD	QC414161	943649	11.95	1557542	13.26	1414340	17.98	772687	20.83

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457437048

Instrument : MSVOA06
Method : EPA 8260B
Begun : 10/30/07 12:08
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fju01	X	IB			10/30/07 12:08	1.0	1	
002	fju02	TUN	BFB			10/30/07 12:42	1.0	2	
003	fju03	CCV	20PPB			10/30/07 12:59	1.0	3 4 1	
004	fju04	TUN	BFB			10/30/07 14:16	1.0	2	
005	fju05	TUN	BFB			10/30/07 14:35	1.0	2	
006	fju06	TUN	BFB			10/30/07 14:49	1.0	2	
007	fju07	TUN	BFB			10/30/07 15:02	1.0	2	
008	fju08	TUN	BFB			10/30/07 15:16	1.0	2	
009	fju09	X	IB			10/30/07 15:35	1.0	1	
010	fju10	X	IB			10/30/07 16:10	1.0	1	
011	fju11	IB	CALIB IB			10/30/07 16:45	1.0	1	
012	fju12	ICAL	2.5PPB			10/30/07 17:19	1.0	5 6 1	
013	fju13	ICAL	5PPB			10/30/07 17:54	1.0	5 6 1	
014	fju14	ICAL	10PPB			10/30/07 18:30	1.0	5 6 1	
015	fju15	ICAL	20PPB			10/30/07 19:05	1.0	3 7 1	
016	fju16	ICAL	50PPB			10/30/07 19:40	1.0	3 7 1	
017	fju17	ICAL	60PPB			10/30/07 20:15	1.0	3 7 1	
018	fju18	ICAL	75PPB			10/30/07 20:50	1.0	3 7 1	
019	fju19	ICAL	100PPB			10/30/07 21:24	1.0	3 7 1	
020	fju20	ICV	25PPB			10/30/07 21:59	1.0	8 1	
021	fju21	ICV	25PPB			10/30/07 22:34	1.0	9 10 1	
022	fju22	X	IB			10/30/07 23:09	1.0	1	
023	fju23	X	IB			10/30/07 23:44	1.0	1	

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7424 6=S7425 7=S7531 8=S7415 9=S7480 10=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457441124

Instrument : MSVOA06 Begun : 11/02/07 08:04
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	fk201	X	BFB				11/02/07 08:04	1.0	1
002	fk202	X	20PPB				11/02/07 08:20	1.0	2 3 4
003	fk203	TUN	BFB				11/02/07 08:59	1.0	1
004	fk204	CCV	20PPB				11/02/07 09:15	1.0	2 3 4
005	fk205	LCS	QC413432		Soil	131244	11/02/07 10:05	1.0	5 6 7 4
006	fk206	X	IB				11/02/07 10:40	1.0	4
007	fk207	BLANK	QC413433		Soil	131244	11/02/07 11:15	1.0	4
008	fk208	SAMPLE	198900-001		Soil	131244	11/02/07 11:50	0.9804	4
009	fk209	SAMPLE	198900-002		Soil	131244	11/02/07 12:24	0.9615	4
010	fk210	SAMPLE	198900-003		Soil	131244	11/02/07 12:59	1.0	4
011	fk211	SAMPLE	198900-004		Soil	131244	11/02/07 13:34	0.9615	4
012	fk212	SAMPLE	198829-004		Soil	131244	11/02/07 14:10	1.02	4
013	fk213	SAMPLE	198843-001		Soil	131244	11/02/07 14:44	0.9259	4
014	fk214	MSS	198903-001		Soil	131244	11/02/07 15:19	0.8772	4
015	fk215	SAMPLE	198903-002		Soil	131244	11/02/07 15:54	0.7813	4
016	fk216	SAMPLE	198903-003		Soil	131244	11/02/07 16:29	0.8065	4
017	fk217	SAMPLE	198903-006		Soil	131244	11/02/07 17:04	1.0	4
018	fk218	SAMPLE	198837-001		Soil	131244	11/02/07 17:39	0.9615	4
019	fk219	SAMPLE	198797-005	M	Soil	131244	11/02/07 18:14	1000	8 4
020	fk220	SAMPLE	198797-006	M	Soil	131244	11/02/07 18:48	1000	8 4
021	fk221	SAMPLE	198797-007	M	Soil	131244	11/02/07 19:23	2500	8 4
022	fk222	MS	QC413478		Soil	131244	11/02/07 19:58	0.7576	5 6 7 4
023	fk223	MSD	QC413479		Soil	131244	11/02/07 20:33	0.9434	5 6 7 4
024	fk224	X	IB				11/02/07 21:08	1.0	4
025	fk225	X	IB				11/02/07 21:42	1.0	4
026	fk226	X	843-2				11/02/07 22:17	5000	4
027	fk227	X	IB				11/02/07 22:52	1.0	4
028	fk228	X	IB				11/02/07 23:27	1.0	4
029	fk229	X	IB				11/03/07 00:01	1.0	4
030	fk230	X	6A				11/03/07 00:36	1.0	4
031	fk231	X	6B				11/03/07 01:11	1.0	4
032	fk232	SAMPLE	198538-004		Soil	131244	11/03/07 01:46	1.0	4

Analyst: BO Date: 11/05/07 Reviewer: LW Date: 11/05/07

Standards used: 1=S6497 2=S7417 3=S7403 4=S7444 5=S7480 6=S7415 7=S7498 8=S7000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457448307

Instrument : MSVOA06 Begun : 11/07/07 07:47
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	fk701	X	IB				11/07/07 07:47	1.0	1
002	fk702	TUN	BFB				11/07/07 08:19	1.0	2
003	fk703	CCV	30PPB				11/07/07 08:36	1.0	3 4 1
004	fk704	X	QC414070		Soil	131403	11/07/07 09:26	1.0	5 6 7 1
005	fk705	X	QC414071		Soil	131403	11/07/07 10:01	1.0	5 6 7 1
006	fk706	BS	QC414070		Soil	131403	11/07/07 10:36	1.0	5 6 7 1
007	fk707	BSD	QC414071		Soil	131403	11/07/07 11:11	1.0	5 6 7 1
008	fk708	X	IB				11/07/07 11:45	1.0	1
009	fk709	BLANK	QC414072		Soil	131403	11/07/07 12:20	1.0	1
010	fk710	MSS	199006-001		Soil	131403	11/07/07 12:54	0.9434	1
011	fk711	SAMPLE	198903-007		Soil	131403	11/07/07 13:29	1.429	1
012	fk712	SAMPLE	198881-006	M	Soil	131403	11/07/07 14:05	25.0	8 1
013	fk713	SAMPLE	198881-017	M	Soil	131403	11/07/07 14:40	200.0	8 1
014	fk714	SAMPLE	198965-001		Miscell.	131403	11/07/07 15:15	0.9434	1
015	fk715	SAMPLE	198921-001		Miscell.	131403	11/07/07 15:50	0.9804	1
016	fk716	SAMPLE	198881-006		Soil	131403	11/07/07 16:25	5.0	1
017	fk717	X	IB				11/07/07 16:59	1.0	1
018	fk718	SAMPLE	198921-002	M	Miscell.	131403	11/07/07 17:34	250.0	8 1
019	fk719	SAMPLE	199003-005	M	Soil	131403	11/07/07 18:08	500.0	8 1
020	fk720	SAMPLE	199003-010	M	Soil	131403	11/07/07 18:43	500.0	8 1
021	fk721	MS	QC414160		Soil	131403	11/07/07 19:17	0.9434	5 6 7 1
022	fk722	MSD	QC414161		Soil	131403	11/07/07 19:52	0.9434	5 6 7 1
023	fk723	X	IB				11/07/07 20:26	1.0	1
024	fk724	X	IB				11/07/07 21:01	1.0	1
025	fk725	X	IB				11/07/07 21:36	1.0	1
026	fk726	X	6A				11/07/07 22:11	1.0	1
027	fk727	X	6B				11/07/07 22:46	1.0	1

Analyst: BO Date: 11/08/07 Reviewer: LW Date: 11/08/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7480 6=S7415 7=S7498 8=S7590

REPORTING SUMMARY FOR 198903 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF
198903-001	MSVOA06	N	11/02/07 15:19	0.8772
198903-002	MSVOA06	N	11/02/07 15:54	0.7813
198903-003	MSVOA06	N	11/02/07 16:29	0.8065
198903-006	MSVOA06	N	11/02/07 17:04	1.0
198903-007	MSVOA06	N	11/07/07 13:29	1.429
QC413432	MSVOA06	N	11/02/07 10:05	1.0
QC413433	MSVOA06	N	11/02/07 11:15	1.0
QC413478	MSVOA06	N	11/02/07 19:58	0.7576
QC413479	MSVOA06	N	11/02/07 20:33	0.9434
QC414070	MSVOA06	N	11/07/07 10:36	1.0
QC414071	MSVOA06	N	11/07/07 11:11	1.0
QC414072	MSVOA06	N	11/07/07 12:20	1.0
QC414160	MSVOA06	N	11/07/07 19:17	0.9434
QC414161	MSVOA06	N	11/07/07 19:52	0.9434

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/2/07

Prepped by: Liz

131244

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198797-5	10.0	A	X	6	alias 602-10 screen 1000x		
2	" -6	10.0	"	X	"	-12 1000x		
3	" -7	10.0	"	X	"	-15 2500x		
4	198900-1	5.1	A					
5	" -2	5.2	"					
6	" -3	5.0	"					
7	" -4	5.2	"					
8	~~198759-1~~		~~B~~					
9	198843-1	5.4	A					
10	" -2	10.0	"	X		~~5~~000X screen		
11	198837-1	5.2	B			~~[illegible]~~ Re 11/L		
12	198889-1	10.0	A	~~X~~		25X on MS12		
13	" -2	10.0	"	X		~~5~~000X screen		
14	~~198881-3~~							
15	~~" -4~~							
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26	198538-4		B			Freezer Blank KR		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS must run 25x	hold date	due date
1	198818-6	5			6	No more sample on MS12		
2	198829-4	4.9	B					
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	198880-2	5.1	A	X	6 MS	~~Screen 1000x~~ Not enough		
14	198903-1			X	6	~~screen 1000x~~		
15	" -2			X	"			
16	" -3			X	"			
17	" -6			X	"			

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/2/07

Prepped by: [illegible]

8260 5030

131245 / 131244

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	~~198869-1~~	~~5.0~~ 11/2	A			~~25x~~		
2	198685-002	0.0025	"			RR 2000X of 10X HC NT↑		11/7
3	198778-001	0.004	"			RR 1250↓		11/2R *
4	002	5.3	"			RR 1↑		11/2
5	198880-002	5.1	A				11/14	11/2
6								
7	198889-001	10.0	A	X		25X		
8	002	10.0	"	X		5000X screen		
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198529-1	2.8	C	X		MS 25x, mpxy 5 CK		11/5
2	198815-1	0.020	"			MS 250x, HC		11/6
3	-2	0.0125	"			400x, HC, NT		
4	-4	~~0.040~~	G			500x, HC, NT MSS/MS/MSD ~~-Bert 6/11~~		
5	-6	0.200	C			25x		
6	198880-001	0.020	B			RR 25CX CD	11/7	
7	198903-001	5.7	A		6	MSS		
8	001	6.6	B		"	MS		
9	001	5.3	C		"	MSD		
10	002	6.4	A		"			
11	003	6.2	"		"			
12	006	5.0	"		"			
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

PROJECT MS VOA MeOH Extraction Log

Notebook No. BK2351

Continued From Page

Date & Initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate Std Vol (mL)	Comments
10/29/07 jc	Blank	10.0	10.0	CU319	8260	57000	0.010	
	198658-1 A	10.0						
	198685-2	1.0						oil
	198778-1	10.0						oily sludge
	" -2	10.0						
11/2/07 jc	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198797-5 A							
	" -6							
	" -7							
	198843-2							
	198889-1							
	" -2							

Continued on Page

Read and Understood By

Signed Date Signed Date

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/7/07

Prepped by: Tie

131403

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198881-6	0.200	A		6	MS 25x, 10D Hexane 01C		
2	-17	0.025				MSD 200x, 10D		
3	199003-5	10.0		X		Comp 1-4 5.0 g each	500X	
4	-10	10.0		X		Comp 6-9 5.0 g each	500X	
5	198921-1	5.1				Mix		
6	-2	10.0		X		250X		
7	198965-1	5.3						
8	199							
9	199006-1	5.3	B			NO QUADS MSS/MSD/		
10	198881-6	1.0	A			MS 5x, 5D		
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

35 30 25 30 35

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198903-7	3.5	A		6		11/8	11/13
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

PROJECT MS VOA MeOH Extraction Log

Notebook No. BK2351

Continued From Page

Date & initial	Sample ID	Soil wt. (g)	MeOH vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate std vol (mL)	Comments
10/29/07 JE	Blank	10.0 tap. g	10.0	CU319	8260	57000	0.010	
	198658-1 A	10.0						
	198685-2	1.0						oil
	198778-1	10.0						oily sludge
	-2	10.0						
11/2/07 JE	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198797-5 A							
	-6							
	-7							
	198843-2							
	198889-1							
	-2							
11/5/07 JE	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198881-3 A							
	-4							
	-6							
	-7							
	-8							
	-10							
	-11							
	-15							
	198908-2							
	-3							
	-6							
11/6/07 JE	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198881-12 A							
	-17							
11/6/07 JE	199013-001 A	10.0	10.0	CU319	8260X	57590	0.01	
	-002 A	10.0	10.0					
11/7/07 JE	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198921-2 A							
	199003-5							comp. (1-4) 5.0 g each
	-10							comp. (6-9) 5.0g each

Continued on Page

Read and Understood by

Signed Date Signed Date

8270-SIM
Water

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX360RB361	Batch#:	131313
Lab ID:	198903-004	Sampled:	11/01/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L	Prepared:	11/05/07
Diln Fac:	1.000	Analyzed:	11/06/07

Analyte	Result	RL	MDL
Naphthalene	0.02 J	0.1	0.007
2-Methylnaphthalene	0.01 J	0.1	0.007
Acenaphthylene	ND	0.1	0.007
Acenaphthene	ND	0.1	0.006
Fluorene	ND	0.1	0.008
Phenanthrene	ND	0.1	0.006
Anthracene	ND	0.1	0.005
Fluoranthene	ND	0.1	0.008
Pyrene	ND	0.1	0.007
Benzo(a)anthracene	ND	0.1	0.01
Chrysene	ND	0.1	0.01
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.009
Benzo(a)pyrene	ND	0.1	0.008
Indeno(1,2,3-cd)pyrene	ND	0.1	0.009
Dibenz(a,h)anthracene	ND	0.1	0.008
Benzo(g,h,i)perylene	ND	0.1	0.007

Surrogate	%REC	Limits
Nitrobenzene-d5	95	45-132
2-Fluorobiphenyl	87	48-120
Terphenyl-d14	87	30-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

51.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413712	Batch#:	131313
Matrix:	Water	Prepared:	11/05/07
Units:	ug/L	Analyzed:	11/06/07

Analyte	Result	RL	MDL
Naphthalene	ND	0.1	0.008
2-Methylnaphthalene	ND	0.1	0.008
Acenaphthylene	ND	0.1	0.008
Acenaphthene	ND	0.1	0.007
Fluorene	ND	0.1	0.008
Phenanthrene	ND	0.1	0.007
Anthracene	ND	0.1	0.006
Fluoranthene	ND	0.1	0.008
Pyrene	ND	0.1	0.007
Benzo(a)anthracene	ND	0.1	0.01
Chrysene	ND	0.1	0.01
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.009
Benzo(a)pyrene	ND	0.1	0.008
Indeno(1,2,3-cd)pyrene	ND	0.1	0.01
Dibenz(a,h)anthracene	ND	0.1	0.008
Benzo(g,h,i)perylene	ND	0.1	0.007

Surrogate	%REC	Limits
Nitrobenzene-d5	100	45-132
2-Fluorobiphenyl	92	48-120
Terphenyl-d14	84	30-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

52.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	131313
Units:	ug/L	Prepared:	11/05/07
Diln Fac:	1.000	Analyzed:	11/06/07

Type: BS Lab ID: QC413713

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	0.8302	83	45-120
Pyrene	1.000	0.7869	79	39-120

Surrogate	%REC	Limits
Nitrobenzene-d5	107	45-132
2-Fluorobiphenyl	94	48-120
Terphenyl-d14	89	30-120

Type: BSD Lab ID: QC413714

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	0.8152	82	45-120	2	35
Pyrene	1.000	0.6752	68	39-120	15	34

Surrogate	%REC	Limits
Nitrobenzene-d5	102	45-132
2-Fluorobiphenyl	93	48-120
Terphenyl-d14	73	30-120

RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Water
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291006 File : uk206 Time : 02-NOV-2007 14:11

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	40208	49.54	
68	< 2% of mass 69	0	0.00	
69		52679		
70	< 2% of mass 69	165	0.31	
127	40% - 60% of mass 198	40437	49.82	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5444	6.71	
275	10% - 30% of mass 198	12568	15.48	
365	> 1% of mass 198	1072	1.32	
441	Present, < mass 443	8859	71.19	
442	> 40% and < 100% of mass 198	62530	77.04	
443	17% - 23% of mass 442	12444	19.90	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291006

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Water
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291014 File : uk214 Time : 02-NOV-2007 18:51

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	41709	46.22	
68	< 2% of mass 69	0	0.00	
69		53443		
70	< 2% of mass 69	271	0.51	
127	40% - 60% of mass 198	43936	48.69	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	6233	6.91	
275	10% - 30% of mass 198	15111	16.74	
365	> 1% of mass 198	1241	1.38	
441	Present, < mass 443	11166	72.57	
442	> 40% and < 100% of mass 198	79056	87.60	
443	17% - 23% of mass 442	15387	19.46	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291014

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Water
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517447053001 File : uk601 Time : 06-NOV-2007 10:53

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	71453	46.17	
68	< 2% of mass 69	0	0.00	
69		96029		
70	< 2% of mass 69	324	0.34	
127	40% - 60% of mass 198	74352	48.04	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	10449	6.75	
275	10% - 30% of mass 198	24208	15.64	
365	> 1% of mass 198	2179	1.41	
441	Present, < mass 443	17920	73.02	
442	> 40% and < 100% of mass 198	126493	81.73	
443	17% - 23% of mass 442	24541	19.40	

Analyst: JGM Date: 11/07/07 Reviewer: LLH Date: 11/08/07

517447053001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517441291001
Units : ug/mL

Name : 2PAHSIM
Date : 02-NOV-2007 14:33
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	uk207	517441291007	0.1/0.5UG/ML PAHDIOX	02-NOV-2007 14:33	S7213
L2	uk208	517441291008	0.2/1.0UG/ML PAHDIOX	02-NOV-2007 15:14	S7214
L3	uk209	517441291009	0.5/2.5UG/ML PAHDIOX	02-NOV-2007 15:55	S7215
L4	uk210	517441291010	1.0/5.0UG/ML PAHDIOX	02-NOV-2007 16:31	S7216
L5	uk211	517441291011	2.0/10.0UG/ML PAHDIO	02-NOV-2007 17:07	S7217
L6	uk212	517441291012	5.0/25.0UG/ML PAHDIO	02-NOV-2007 17:43	S7218
L7	uk213	517441291013	10.0/50.0UG/ML PAHDI	02-NOV-2007 18:19	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0639	1.0823	1.0856	1.1040	1.1332	1.1131	1.0916	AVRG		0.91222		1.0962	2	15	0.05	0.99	
2-Methylnaphthalene	0.6357	0.6327	0.6493	0.6889	0.7064	0.6851	0.6560	AVRG		1.50406		0.6649	4	15	0.05	0.99	
Acenaphthylene	1.8691	1.9772	1.8721	1.8864	1.9509	2.0678	1.9515	AVRG		0.51566		1.9393	4	15	0.05	0.99	
Acenaphthene	1.0159	1.0928	1.0242	1.0541	1.1281	1.1167	1.0762	AVRG		0.93232		1.0726	4	15	0.05	0.99	
Fluorene	1.2548	1.3014	1.2069	1.2491	1.2902	1.3355	1.2057	AVRG		0.79154		1.2634	4	15	0.05	0.99	
Phenanthrene	1.1292m	1.2024	1.1937	1.2045	1.1824	1.1754	1.2048	AVRG		0.84414		1.1846	2	15	0.05	0.99	
Anthracene	1.0203m	1.1253m	1.0649m	1.0639m	1.1298	1.0908m	1.0707	AVRG		0.92521		1.0808	4	15	0.05	0.99	
Fluoranthene	1.0832	1.1668	1.1140	1.1525	1.2037	1.1694	1.2065	AVRG		0.86463		1.1566	4	15	0.05	0.99	
Pyrene	1.8526	2.0391	1.8341	1.8720	1.7668	1.7596	1.6633	AVRG		0.54741		1.8268	6	15	0.05	0.99	
Benzo(a)anthracene	1.1417	1.1877m	1.1715	1.2070	1.2427	1.2768	1.2573	AVRG		0.82502		1.2121	4	15	0.05	0.99	
Chrysene	1.1638m	1.2611m	1.1702m	1.2135m	1.2485	1.1741	1.1845	AVRG		0.83179		1.2022	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3117	1.4346m	1.4072	1.5151	1.4590	1.4492	1.4097	AVRG		0.70094		1.4267	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.2810m	1.4441	1.4226	1.4871	1.4949	1.6051	1.6111	AVRG		0.67660		1.4780	8	15	0.05	0.99	
Benzo(a)pyrene	0.9774m	1.0759	1.0971	1.1613	1.2506	1.2644	1.2978	AVRG		0.86160		1.1606	10	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9592m	0.9941m	1.0273m	1.0226	1.1734	1.2215	1.2664	AVRG		0.91331		1.0949	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6926m	0.8080m	0.7864	0.7933	0.9054	0.9571	1.0173	AVRG		1.17447		0.8514	13	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9227m	0.9829m	0.9663	0.9096	1.0016	1.0677	1.0671	AVRG		1.01188		0.9883	6	15	0.05	0.99	
Nitrobenzene-d5	0.2886m	0.2785m	0.2938m	0.2894m	0.2991	0.3061	0.2988	AVRG		3.40744		0.2935	3	15	0.05	0.99	
2-Fluorobiphenyl	1.3097	1.3536	1.2990	1.2974	1.2619	1.3343	1.2572	AVRG		0.76813		1.3019	3	15	0.05	0.99	
Terphenyl-d14	1.2533	1.2554	1.2006	1.2455	1.2170	1.1718	1.1433	AVRG		0.82481		1.2124	4	15	0.05	0.99	

9026

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	-1	1.000	1	2.000	3	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-4	0.200	-5	0.500	-2	1.000	4	2.000	6	5.000	3	10.00	-1
Acenaphthylene	0.100	-4	0.200	2	0.500	-3	1.000	-3	2.000	1	5.000	7	10.00	1
Acenaphthene	0.100	-5	0.200	2	0.500	-5	1.000	-2	2.000	5	5.000	4	10.00	0
Fluorene	0.100	-1	0.200	3	0.500	-4	1.000	-1	2.000	2	5.000	6	10.00	-5
Phenanthrene	0.100	-5	0.200	1	0.500	1	1.000	2	2.000	0	5.000	-1	10.00	2
Anthracene	0.100	-6	0.200	4	0.500	-1	1.000	-2	2.000	5	5.000	1	10.00	-1
Fluoranthene	0.100	-6	0.200	1	0.500	-4	1.000	0	2.000	4	5.000	1	10.00	4
Pyrene	0.100	1	0.200	12	0.500	0	1.000	2	2.000	-3	5.000	-4	10.00	-9
Benzo(a)anthracene	0.100	-6	0.200	-2	0.500	-3	1.000	0	2.000	3	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	5	0.500	-3	1.000	1	2.000	4	5.000	-2	10.00	-1
Benzo(b)fluoranthene	0.100	-8	0.200	1	0.500	-1	1.000	6	2.000	2	5.000	2	10.00	-1
Benzo(k)fluoranthene	0.100	-13	0.200	-2	0.500	-4	1.000	1	2.000	1	5.000	9	10.00	9
Benzo(a)pyrene	0.100	-16	0.200	-7	0.500	-5	1.000	0	2.000	8	5.000	9	10.00	12
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-9	0.500	-6	1.000	-7	2.000	7	5.000	12	10.00	16
Dibenz(a,h)anthracene	0.100	-19	0.200	-5	0.500	-8	1.000	-7	2.000	6	5.000	12	10.00	19
Benzo(g,h,i)perylene	0.100	-7	0.200	-1	0.500	-2	1.000	-8	2.000	1	5.000	8	10.00	8
Nitrobenzene-d5	0.100	-2	0.200	-5	0.500	0	1.000	-1	2.000	2	5.000	4	10.00	2
2-Fluorobiphenyl	0.100	1	0.200	4	0.500	0	1.000	0	2.000	-3	5.000	2	10.00	-3
Terphenyl-d14	0.100	3	0.200	4	0.500	-1	1.000	3	2.000	0	5.000	-3	10.00	-6

JGM 11/02/07 : Manual integrations for tailing/misidentified peaks.

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

517441291001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 517441291001 Cal Date : 02-NOV-2007

ICV 517441291015 (uk215 02-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0962	1.0045	1.000	0.9164	ug/mL	-8	20	
2-Methylnaphthalene	0.6649	0.5940	1.000	0.8935	ug/mL	-11	20	
Acenaphthylene	1.9393	1.8656	1.000	0.9620	ug/mL	-4	20	
Acenaphthene	1.0726	0.9993	1.000	0.9317	ug/mL	-7	20	
Fluorene	1.2634	1.1648	1.000	0.9220	ug/mL	-8	20	
Phenanthrene	1.1846	1.0678	1.000	0.9014	ug/mL	-10	20	
Anthracene	1.0808	1.1002	1.000	1.018	ug/mL	2	20	
Fluoranthene	1.1566	1.1099	1.000	0.9596	ug/mL	-4	20	
Pyrene	1.8268	1.7231	1.000	0.9432	ug/mL	-6	20	
Benzo(a)anthracene	1.2121	1.1245	1.000	0.9278	ug/mL	-7	20	
Chrysene	1.2022	1.1778	1.000	0.9797	ug/mL	-2	20	
Benzo(b)fluoranthene	1.4267	1.2951	1.000	0.9078	ug/mL	-9	20	
Benzo(k)fluoranthene	1.4780	1.5735	1.000	1.065	ug/mL	6	20	
Benzo(a)pyrene	1.1606	1.1339	1.000	0.9770	ug/mL	-2	20	
Indeno(1,2,3-cd)pyrene	1.0949	0.9389	1.000	0.8575	ug/mL	-14	20	
Dibenz(a,h)anthracene	0.8514	0.7382	1.000	0.8670	ug/mL	-13	20	
Benzo(g,h,i)perylene	0.9883	0.8900	1.000	0.9006	ug/mL	-10	20	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 517447053003.1 File : uk603 Time : 06-NOV-2007 11:53
Cal : 517441291001 Caldate : 02-NOV-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0962	1.2387	1.000	1.130	ug/mL	13	20	0.0500	m
2-Methylnaphthalene	0.6649	0.6803	1.000	1.023	ug/mL	2	20	0.0500	
Acenaphthylene	1.9393	1.9895	1.000	1.026	ug/mL	3	20	0.0500	
Acenaphthene	1.0726	1.1204	1.000	1.045	ug/mL	4	20	0.0500	
Fluorene	1.2634	1.3676	1.000	1.083	ug/mL	8	20	0.0500	
Phenanthrene	1.1846	1.1902	1.000	1.005	ug/mL	0	20	0.0500	
Anthracene	1.0808	1.0698	1.000	0.9898	ug/mL	-1	20	0.0500	
Fluoranthene	1.1566	1.1591	1.000	1.002	ug/mL	0	20	0.0500	
Pyrene	1.8268	1.6326	1.000	0.8937	ug/mL	-11	20	0.0500	
Benzo(a)anthracene	1.2121	1.2157	1.000	1.003	ug/mL	0	20	0.0500	
Chrysene	1.2022	1.2506	1.000	1.040	ug/mL	4	20	0.0500	
Benzo(b)fluoranthene	1.4267	1.3586	1.000	0.9523	ug/mL	-5	20	0.0500	
Benzo(k)fluoranthene	1.4780	1.4851	1.000	1.005	ug/mL	0	20	0.0500	
Benzo(a)pyrene	1.1606	1.1635	1.000	1.003	ug/mL	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0949	1.0452	1.000	0.9546	ug/mL	-5	20	0.0500	
Dibenz(a,h)anthracene	0.8514	0.8386	1.000	0.9849	ug/mL	-2	20	0.0500	
Benzo(g,h,i)perylene	0.9883	0.9343	1.000	0.9454	ug/mL	-5	20	0.0500	m
Nitrobenzene-d5	0.2935	0.3236	1.000	1.103	ug/mL	10	20	0.0500	m
2-Fluorobiphenyl	1.3019	1.4250	1.000	1.095	ug/mL	9	20	0.0500	
Terphenyl-d14	1.2124	1.0354	1.000	0.8540	ug/mL	-15	20	0.0500	

Analyst: JGM Date: 11/07/07 Reviewer: LLH Date: 11/08/07

m=manual integration

517447053003.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517447053

Date : 11/06/07 Reference : uk603
Sequence : MSBNA02 uk6 Analyzed : 11/06/07 11:53

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	32008	8.31	129062	9.89	60872	12.16	95641	14.12	70673	17.69	52773	19.68
		LOWER LIMIT	16004	7.81	64531	9.39	30436	11.66	47821	13.62	35337	17.19	26387	19.18
		UPPER LIMIT	64016	8.81	258124	10.39	121744	12.66	191282	14.62	141346	18.19	105546	20.18
003	CCV	1/5UG/ML	32008	8.31	129062	9.89	60872	12.16	95641	14.12	70673	17.69	52773	19.68
004	BLANK	QC413712	30782	8.31	134697	9.89	63904	12.16	96031	14.12	64611	17.69	39433	19.68
005	BS	QC413713	30447	8.31	130298	9.89	62168	12.16	90973	14.12	68588	17.69	48684	19.68
006	BSD	QC413714	32314	8.31	135220	9.89	62780	12.17	97995	14.12	73016	17.69	50015	19.68
007	SAMPLE	198880-004	32464	8.31	134304	9.89	64865	12.16	93880	14.12	64887	17.69	40747	19.68
008	SAMPLE	198903-004	30942	8.31	134932	9.89	66201	12.16	96350	14.12	63535	17.69	37981	19.68
009	SAMPLE	198956-002	33249	8.31	145602	9.89	67419	12.17	100422	14.12	70679	17.69	45008	19.68
010	SAMPLE	198836-001	33843	8.31	146078	9.89	66266	12.17	98157	14.12	69238	17.69	37542	19.68
011	SAMPLE	198836-002	31882	8.31	139007	9.89	64827	12.16	95695	14.12	68519	17.69	44984	19.68
012	SAMPLE	198836-003	31850	8.31	139925	9.89	65449	12.16	95814	14.12	65450	17.69	42621	19.68
013	SAMPLE	198836-004	33202	8.31	137813	9.88	67628	12.16	98503	14.12	63621	17.69	40216	19.68
014	SAMPLE	198836-006	33686	8.31	145649	9.89	68843	12.16	100389	14.12	67428	17.69	43301	19.68
015	SAMPLE	198925-001	36505	8.31	157530	9.89	77418	12.17	103980	14.13	69026	17.70	19977 *	19.69
016	SAMPLE	198925-003	34116	8.31	160737	9.89	100169	12.16	109223	14.12	81107	17.70	54169	19.68

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517441291

Instrument : MSBNA02 Begun : 11/02/07 10:51
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk201	TUN	DFTPP/PEM 50UG/ML			11/02/07 10:51	1.0	1	
002	uk202	TUN	DFTPP/PEM 50UG/ML			11/02/07 11:36	1.0	1	
003	uk203	CCV	RT CHECK			11/02/07 12:01	1.0	2	21:DIOXANE14=74
004	uk204	CCV	RT CHECK			11/02/07 12:55	1.0	2	15:DIOXANE14=64
005	uk205	TUN	DFTPP/PEM 50UG/ML			11/02/07 13:40	1.0	1	
006	uk206	TUN	DFTPP/PEM 50UG/ML			11/02/07 14:11	1.0	1	
007	uk207	ICAL	0.1/0.5UG/ML PAHDIOX			11/02/07 14:33	1.0	3	
008	uk208	ICAL	0.2/1.0UG/ML PAHDIOX			11/02/07 15:14	1.0	4	
009	uk209	ICAL	0.5/2.5UG/ML PAHDIOX			11/02/07 15:55	1.0	5	
010	uk210	ICAL	1.0/5.0UG/ML PAHDIOX			11/02/07 16:31	1.0	6	
011	uk211	ICAL	2.0/10.0UG/ML PAHDIO			11/02/07 17:07	1.0	7	
012	uk212	ICAL	5.0/25.0UG/ML PAHDIO			11/02/07 17:43	1.0	8	
013	uk213	ICAL	10.0/50.0UG/ML PAHDI			11/02/07 18:19	1.0	2	
014	uk214	TUN	DFTPP/PEM 50UG/ML			11/02/07 18:51	1.0	1	
015	uk215	ICV/CCV	10/1UG/ML			11/02/07 19:13	1.0	9	
016	uk216	BLANK	QC413150	Water	131165	11/02/07 20:03	1.0	10	
017	uk217	BS	QC413151	Water	131165	11/02/07 20:40	1.0	10	
018	uk218	BSD	QC413152	Water	131165	11/02/07 21:18	1.0	10	
019	uk219	BLANK	QC413366	Soil	131224	11/02/07 21:55	1.0	10	
020	uk220	LCS	QC413367	Soil	131224	11/02/07 22:32	1.0	10	
021	uk221	SAMPLE	198837-001	Soil	131224	11/02/07 23:10	1.0	10	
022	uk222	MSS	198767-005	Soil	131224	11/02/07 23:47	1.0	10	
023	uk223	MS	QC413368	Soil	131224	11/03/07 00:23	1.0	10	
024	uk224	MSD	QC413369	Soil	131224	11/03/07 00:59	1.0	10	
025	uk225	SAMPLE	198799-001	Water	131165	11/03/07 01:35	1.0	10	
026	uk226	BLANK	QC413563	Soil	131279	11/03/07 02:11	1.0	10	
027	uk227	LCS	QC413564	Soil	131279	11/03/07 02:46	1.0	10	
028	uk228	SAMPLE	198880-001	Soil	131279	11/03/07 03:22	2.0	10	
029	uk229	SAMPLE	198880-002	Soil	131279	11/03/07 03:58	2.0	10	
030	uk230	MSS	198903-001	Soil	131279	11/03/07 04:35	1.0	10	
031	uk231	SAMPLE	198903-002	Soil	131279	11/03/07 05:11	3.0	10	
032	uk232	SAMPLE	198903-003	Soil	131279	11/03/07 05:48	5.0	10	
033	uk233	SAMPLE	198903-006	Soil	131279	11/03/07 06:25	1.0	10	

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592 10=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517447053

Instrument : MSBNA02 Begun : 11/06/07 10:53
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk601	TUN	DFTPP/PEM 50UG/ML			11/06/07 10:53	1.0	1	
002	uk602	CCV	1/5UG/ML			11/06/07 11:14	1.0	2	
003	uk603	CCV	1/5UG/ML			11/06/07 11:53	1.0	2	
004	uk604	BLANK	QC413712	Water	131313	11/06/07 12:30	1.0	3	
005	uk605	BS	QC413713	Water	131313	11/06/07 13:07	1.0	3	
006	uk606	BSD	QC413714	Water	131313	11/06/07 13:44	1.0	3	
007	uk607	SAMPLE	198880-004	Water	131313	11/06/07 14:20	1.0	3	
008	uk608	SAMPLE	198903-004	Water	131313	11/06/07 14:57	1.0	3	
009	uk609	SAMPLE	198956-002	Water	131313	11/06/07 15:33	1.0	3	
010	uk610	SAMPLE	198836-001	Water	131313	11/06/07 16:10	1.0	3	
011	uk611	SAMPLE	198836-002	Water	131313	11/06/07 17:34	1.0	3	
012	uk612	SAMPLE	198836-003	Water	131313	11/06/07 18:11	1.0	3	
013	uk613	SAMPLE	198836-004	Water	131313	11/06/07 18:47	1.0	3	
014	uk614	SAMPLE	198836-006	Water	131313	11/06/07 19:23	1.0	3	
015	uk615	SAMPLE	198925-001	Water	131313	11/06/07 19:59	1.0	3	1:ACNP=11
016	uk616	SAMPLE	198925-003	Water	131313	11/06/07 20:36	1.0	3	
017	uk617	TUN	DFTPP/PEM 50UG/ML			11/06/07 21:56	1.0	1	
018	uk618	CCV	1/5UG/ML			11/06/07 22:16	1.0	2	
019	uk619	BLANK	QC413978	Soil	131378	11/06/07 22:52	1.0	3	
020	uk620	MDL	198962-001	Soil	131378	11/06/07 23:31	1.0	3	
021	uk621	MDL	198962-002	Soil	131378	11/07/07 00:08	1.0	3	
022	uk622	MDL	198962-003	Soil	131378	11/07/07 00:45	1.0	3	
023	uk623	MDL	198962-004	Soil	131378	11/07/07 01:21	1.0	3	
024	uk624	MDL	198962-005	Soil	131378	11/07/07 01:57	1.0	3	
025	uk625	MDL	198962-006	Soil	131378	11/07/07 02:34	1.0	3	
026	uk626	MDL	198962-007	Soil	131378	11/07/07 03:11	1.0	3	
027	uk627	MDL	198962-008	Soil	131378	11/07/07 03:47	1.0	3	

Standards used: 1=S7320 2=S7216 3=S7591

REPORTING SUMMARY FOR 198903 MSSIM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FL	PHAN	ANTH	FLA	PRY	BZAA	CHRY	BZBF	BZKF	BZAP	INP1	DBAH	BZHG	NO2B	PHEN	PHEN2
198903-004	MSBNA02	11/06/07 14:57	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413712	MSBNA02	11/06/07 12:30	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413713	MSBNA02	11/06/07 13:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413714	MSBNA02	11/06/07 13:44	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SAMPLE PREPARATION SUMMARY

Batch # : 131313
Started By : DJT
Method : 3520C
Spike #1 ID : S7474
Prep Date : 05-NOV-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7566
Analysis : 8270-SIM
Finished By : SFH
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198836-001		Water	1040	1	1	0.0009615	7	1				8270-SIM	
198836-002		Water	1050	1	1	0.0009524	5	1				8270-SIM	
198836-003		Water	1040	1	1	0.0009615	7	1				8270-SIM	
198836-004		Water	1040	1	1	0.0009615	7	1				8270-SIM	
198836-006		Water	1030	1	1	0.0009709	5	1				8270-SIM	
198880-004		Water	1000	1	1	0.001	5	1				8270-SIM	
198903-004		Water	1050	1	1	0.0009524	5	1				8270-SIM	
198925-001		Water	950	1	1	0.001053	7	1				8270-SIM	
198925-003		Water	1000	1	1	0.001	7	1				8270-SIM	
198956-002		Water	1000	1	1	0.001	5	1				8270-SIM	
QC413712	BLANK	Water	1000	1	1	0.001		1				8270-SIM	
QC413713	BS	Water	1000	1	1	0.001		1	1			8270-SIM	
QC413714	BSD	Water	1000	1	1	0.001		1	1			8270-SIM	

Analyst: JGM Date: 11/07/07 Reviewer: LLH Date: 11/08/07

BNA Water Prep Log

Curtis & Tompkins, Ltd.

Page 97 BK 2527

LIMS Analysis: 8270-SIM
LIMS Batch No: 131313
Date Extracted: 11/5/07

Extraction Method:
☒ mod.EPA 3520c cont.L/L
☐ _____

Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ _____

	Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
	198836-001 X	1040	7	1.0		MS DST 11/6/07
	002 K	1050	5			
	003 I	1040	7			
	004 K	1040	↓			
5	006 I	1030	5			
	198880-004 B	1000				
	198903-004 K	1050				
	198925-001 D	950	7			
	003 E	1000	↓			
10	198956-002 F	1000	5			
	MB QC413712	1000	NA			
	LCS BS 3	↓	↓	↓		
	MS BSD 4					
DST 11/5/07	MSD					
15						
20						
						SFH 11/6/07

	Lot# / LIMS # / Time	Date/ Initials
1.0 mL of surrogate solution was added to all samples	57474A	DST 11/5/07
1.0 mL of matrix spiking solution was added to all spikes	57566C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS073967	
Cont. L/L extracted with 450mL of CH_2Cl_2	EM47178	
Extraction Start Time:	1300	
Extraction End Time:	0710	SFH 11/6/07
pH of all samples adjusted to pH ≥ 11 with 10 N NaOH	N/A	
Extraction Start Time:		
Extraction End Time:		
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM47158737	
Concentrated to volumes as noted above	✓	
Relinquished to BNA department	✓	

11/5/07
Extraction Chemist **Date**

Contined from Page ___/___
Continued on Page ___/___

11/6/07
Reviewed by **Date**

8270-SIM
Soil

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX359[4.0]	Batch#:	131279
Lab ID:	198903-001	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/03/07
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL	MDL
Naphthalene	ND	5.9	0.68
2-Methylnaphthalene	ND	5.9	0.60
Acenaphthylene	ND	5.9	0.66
Acenaphthene	ND	5.9	0.57
Fluorene	ND	5.9	0.65
Phenanthrene	ND	5.9	0.54
Anthracene	ND	5.9	0.78
Fluoranthene	ND	5.9	0.63
Pyrene	ND	5.9	0.50
Benzo(a)anthracene	ND	5.9	0.60
Chrysene	ND	5.9	0.57
Benzo(b)fluoranthene	ND	5.9	0.71
Benzo(k)fluoranthene	ND	5.9	0.77
Benzo(a)pyrene	ND	5.9	0.89
Indeno(1,2,3-cd)pyrene	ND	5.9	0.42
Dibenz(a,h)anthracene	ND	5.9	0.35
Benzo(g,h,i)perylene	ND	5.9	0.47

Surrogate	%REC	Limits
Nitrobenzene-d5	72	39-136
2-Fluorobiphenyl	76	42-120
Terphenyl-d14	89	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

20.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX360[4.0]	Batch#:	131279
Lab ID:	198903-002	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/03/07
Diln Fac:	3.000		

Moisture: 16%

Analyte	Result	RL	MDL
Naphthalene	ND	18	2.0
2-Methylnaphthalene	2.4 J	18	1.8
Acenaphthylene	ND	18	2.0
Acenaphthene	ND	18	1.7
Fluorene	ND	18	2.0
Phenanthrene	5.2 J	18	1.6
Anthracene	ND	18	2.4
Fluoranthene	6.7 J	18	1.9
Pyrene	8.8 J	18	1.5
Benzo(a)anthracene	4.5 J	18	1.8
Chrysene	6.0 J	18	1.7
Benzo(b)fluoranthene	7.5 J	18	2.1
Benzo(k)fluoranthene	2.3 J	18	2.3
Benzo(a)pyrene	5.4 J	18	2.7
Indeno(1,2,3-cd)pyrene	3.0 J	18	1.3
Dibenz(a,h)anthracene	1.3 J	18	1.1
Benzo(g,h,i)perylene	4.6 J	18	1.4

Surrogate	%REC	Limits
Nitrobenzene-d5	88	39-136
2-Fluorobiphenyl	91	42-120
Terphenyl-d14	90	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	DUP110107	Batch#:	131279
Lab ID:	198903-003	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/03/07
Diln Fac:	5.000		

Moisture: 15%

Analyte	Result	RL	MDL
Naphthalene	ND	29	3.4
2-Methylnaphthalene	ND	29	3.0
Acenaphthylene	ND	29	3.3
Acenaphthene	ND	29	2.8
Fluorene	ND	29	3.2
Phenanthrene	5.1 J	29	2.7
Anthracene	ND	29	3.9
Fluoranthene	9.9 J	29	3.1
Pyrene	13 J	29	2.5
Benzo(a)anthracene	7.0 J	29	3.0
Chrysene	7.4 J	29	2.8
Benzo(b)fluoranthene	8.9 J	29	3.5
Benzo(k)fluoranthene	4.1 J	29	3.8
Benzo(a)pyrene	8.3 J	29	4.4
Indeno(1,2,3-cd)pyrene	4.7 J	29	2.1
Dibenz(a,h)anthracene	1.9 J	29	1.8
Benzo(g,h,i)perylene	6.4 J	29	2.3

Surrogate	%REC	Limits
Nitrobenzene-d5	86	39-136
2-Fluorobiphenyl	89	42-120
Terphenyl-d14	91	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

22.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX361[4.5]	Batch#:	131279
Lab ID:	198903-006	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/03/07
Diln Fac:	1.000		

Moisture: 19%

Analyte	Result	RL	MDL
Naphthalene	3.5 J	6.2	0.71
2-Methylnaphthalene	4.4 J	6.2	0.63
Acenaphthylene	1.2 J	6.2	0.69
Acenaphthene	ND	6.2	0.60
Fluorene	ND	6.2	0.68
Phenanthrene	7.9	6.2	0.57
Anthracene	1.5 J	6.2	0.82
Fluoranthene	12	6.2	0.66
Pyrene	16	6.2	0.52
Benzo(a)anthracene	7.3	6.2	0.63
Chrysene	9.7	6.2	0.59
Benzo(b)fluoranthene	11	6.2	0.74
Benzo(k)fluoranthene	4.3 J	6.2	0.80
Benzo(a)pyrene	8.4	6.2	0.93
Indeno(1,2,3-cd)pyrene	4.8 J	6.2	0.44
Dibenz(a,h)anthracene	1.5 J	6.2	0.37
Benzo(g,h,i)perylene	6.2	6.2	0.49

Surrogate	%REC	Limits
Nitrobenzene-d5	84	39-136
2-Fluorobiphenyl	88	42-120
Terphenyl-d14	88	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX362[5.5]	Batch#:	131452
Lab ID:	198903-007	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Prepared:	11/08/07
Basis:	dry	Analyzed:	11/08/07
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL	MDL
Naphthalene	ND	5.9	0.81
2-Methylnaphthalene	ND	5.9	0.84
Acenaphthylene	ND	5.9	0.76
Acenaphthene	ND	5.9	1.1
Fluorene	ND	5.9	1.0
Phenanthrene	1.7 J	5.9	0.95
Anthracene	ND	5.9	0.73
Fluoranthene	3.2 J	5.9	1.1
Pyrene	3.3 J	5.9	0.92
Benzo(a)anthracene	1.2 J	5.9	0.84
Chrysene	1.8 J	5.9	0.85
Benzo(b)fluoranthene	1.8 J	5.9	0.97
Benzo(k)fluoranthene	ND	5.9	1.5
Benzo(a)pyrene	1.2 J	5.9	0.67
Indeno(1,2,3-cd)pyrene	ND	5.9	0.86
Dibenz(a,h)anthracene	ND	5.9	0.81
Benzo(g,h,i)perylene	1.4 J	5.9	0.82

Surrogate	%REC	Limits
Nitrobenzene-d5	78	39-136
2-Fluorobiphenyl	67	42-120
Terphenyl-d14	71	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413563	Batch#:	131279
Matrix:	Soil	Prepared:	11/02/07
Units:	ug/Kg	Analyzed:	11/03/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.57
2-Methylnaphthalene	ND	5.0	0.51
Acenaphthylene	ND	5.0	0.55
Acenaphthene	ND	5.0	0.48
Fluorene	ND	5.0	0.55
Phenanthrene	ND	5.0	0.46
Anthracene	ND	5.0	0.66
Fluoranthene	ND	5.0	0.53
Pyrene	ND	5.0	0.42
Benzo(a)anthracene	ND	5.0	0.50
Chrysene	ND	5.0	0.48
Benzo(b)fluoranthene	ND	5.0	0.59
Benzo(k)fluoranthene	ND	5.0	0.64
Benzo(a)pyrene	ND	5.0	0.74
Indeno(1,2,3-cd)pyrene	ND	5.0	0.35
Dibenz(a,h)anthracene	ND	5.0	0.30
Benzo(g,h,i)perylene	ND	5.0	0.40

Surrogate	%REC	Limits
Nitrobenzene-d5	83	39-136
2-Fluorobiphenyl	89	42-120
Terphenyl-d14	99	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

24.0

00285

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC414296	Batch#:	131452
Matrix:	Soil	Prepared:	11/08/07
Units:	ug/Kg	Analyzed:	11/08/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.72
2-Methylnaphthalene	ND	5.0	0.60
Acenaphthylene	ND	5.0	0.64
Acenaphthene	ND	5.0	0.57
Fluorene	ND	5.0	0.59
Phenanthrene	ND	5.0	0.71
Anthracene	ND	5.0	0.70
Fluoranthene	ND	5.0	0.94
Pyrene	ND	5.0	0.77
Benzo(a)anthracene	ND	5.0	0.88
Chrysene	ND	5.0	0.75
Benzo(b)fluoranthene	ND	5.0	0.66
Benzo(k)fluoranthene	ND	5.0	0.67
Benzo(a)pyrene	ND	5.0	0.54
Indeno(1,2,3-cd)pyrene	ND	5.0	0.61
Dibenz(a,h)anthracene	ND	5.0	0.50
Benzo(g,h,i)perylene	ND	5.0	0.50

Surrogate	%REC	Limits
Nitrobenzene-d5	45	39-136
2-Fluorobiphenyl	64	42-120
Terphenyl-d14	80	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

83.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413564	Batch#:	131279
Matrix:	Soil	Prepared:	11/02/07
Units:	ug/Kg	Analyzed:	11/03/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.24	22.66	68	42-120
Pyrene	33.24	22.22	67	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	84	39-136
2-Fluorobiphenyl	80	42-120
Terphenyl-d14	78	34-130

25.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC414297	Batch#:	131452
Matrix:	Soil	Prepared:	11/08/07
Units:	ug/Kg	Analyzed:	11/08/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.22	23.21	70	42-120
Pyrene	33.22	25.67	77	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	65	39-136
2-Fluorobiphenyl	84	42-120
Terphenyl-d14	88	34-130

84.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX359[4.0]	Batch#:	131279
MSS Lab ID:	198903-001	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	ug/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC413567

Moisture: 16%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<0.5695	39.56	29.18	74	47-120
Pyrene	<0.5022	39.56	29.36	74	17-146

Surrogate	%REC	Limits
Nitrobenzene-d5	95	39-136
2-Fluorobiphenyl	89	42-120
Terphenyl-d14	82	34-130

Type: MSD
Lab ID: QC413568

Moisture: 16%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	39.51	30.85	78	47-120	6	32
Pyrene	39.51	31.87	81	17-146	8	47

Surrogate	%REC	Limits
Nitrobenzene-d5	97	39-136
2-Fluorobiphenyl	90	42-120
Terphenyl-d14	91	34-130

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX363[8.0]	Batch#:	131452
MSS Lab ID:	199042-003	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	ug/Kg	Prepared:	11/08/07
Basis:	dry	Analyzed:	11/09/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC414298

Moisture: 19%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.162	41.00	28.90	70	47-120
Pyrene	<0.9642	41.00	31.51	77	17-146

Surrogate	%REC	Limits
Nitrobenzene-d5	81	39-136
2-Fluorobiphenyl	79	42-120
Terphenyl-d14	88	34-130

Type: MSD
Lab ID: QC414299

Moisture: 19%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	41.48	26.53	64	47-120	10	32
Pyrene	41.48	28.61	69	17-146	11	47

Surrogate	%REC	Limits
Nitrobenzene-d5	69	39-136
2-Fluorobiphenyl	70	42-120
Terphenyl-d14	80	34-130

RPD= Relative Percent Difference

85.0

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291006 File : uk206 Time : 02-NOV-2007 14:11

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	40208	49.54	
68	< 2% of mass 69	0	0.00	
69		52679		
70	< 2% of mass 69	165	0.31	
127	40% - 60% of mass 198	40437	49.82	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5444	6.71	
275	10% - 30% of mass 198	12568	15.48	
365	> 1% of mass 198	1072	1.32	
441	Present, < mass 443	8859	71.19	
442	> 40% and < 100% of mass 198	62530	77.04	
443	17% - 23% of mass 442	12444	19.90	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291006

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291014 File : uk214 Time : 02-NOV-2007 18:51

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	41709	46.22	
68	< 2% of mass 69	0	0.00	
69		53443		
70	< 2% of mass 69	271	0.51	
127	40% - 60% of mass 198	43936	48.69	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	6233	6.91	
275	10% - 30% of mass 198	15111	16.74	
365	> 1% of mass 198	1241	1.38	
441	Present, < mass 443	11166	72.57	
442	> 40% and < 100% of mass 198	79056	87.60	
443	17% - 23% of mass 442	15387	19.46	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291014

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517445566001 File : uk501 Time : 05-NOV-2007 10:06

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	65255	47.89	
68	< 2% of mass 69	0	0.00	
69		86463		
70	< 2% of mass 69	334	0.39	
127	40% - 60% of mass 198	66504	48.80	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	9366	6.87	
275	10% - 30% of mass 198	20853	15.30	
365	> 1% of mass 198	1772	1.30	
441	Present, < mass 443	15926	74.88	
442	> 40% and < 100% of mass 198	109088	80.05	
443	17% - 23% of mass 442	21269	19.50	

Analyst: AD Date: 11/05/07 Reviewer: JGM Date: 11/05/07

517445566001

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517450361003 File : uk803 Time : 08-NOV-2007 18:38

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	76488	58.08	
68	< 2% of mass 69	0	0.00	
69		93952		
70	< 2% of mass 69	444	0.47	
127	40% - 60% of mass 198	67584	51.32	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	8798	6.68	
275	10% - 30% of mass 198	20825	15.81	
365	> 1% of mass 198	1961	1.49	
441	Present, < mass 443	14904	73.90	
442	> 40% and < 100% of mass 198	106056	80.53	
443	17% - 23% of mass 442	20168	19.02	

Analyst: LLH Date: 11/09/07 Reviewer: AD Date: 11/09/07

517450361003

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50NG IDF : 1.0
Seqnum : 537440171003 File : wk103 Time : 01-NOV-2007 17:47

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	108900	49.98	
68	< 2% of mass 69	0	0.00	
69		110746		
70	< 2% of mass 69	324	0.29	
127	40% - 60% of mass 198	101917	46.77	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	14517	6.66	
275	10% - 30% of mass 198	43760	20.08	
365	> 1% of mass 198	4656	2.14	
441	Present, < mass 443	27619	74.79	
442	> 40% and < 100% of mass 198	188173	86.36	
443	17% - 23% of mass 442	36930	19.63	

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

537440171003

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 537441645001 File : wk201 Time : 02-NOV-2007 16:45

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	105565	48.05	
68	< 2% of mass 69	0	0.00	
69		110773		
70	< 2% of mass 69	460	0.42	
127	40% - 60% of mass 198	100557	45.77	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	14900	6.78	
275	10% - 30% of mass 198	43672	19.88	
365	> 1% of mass 198	4503	2.05	
441	Present, < mass 443	29264	73.39	
442	> 40% and < 100% of mass 198	200314	91.18	
443	17% - 23% of mass 442	39872	19.90	

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

537441645001

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 537450230006 File : wk806 Time : 08-NOV-2007 18:34

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	67988	40.97	
68	< 2% of mass 69	0	0.00	
69		74720		
70	< 2% of mass 69	212	0.28	
127	40% - 60% of mass 198	73592	44.35	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	10900	6.57	
275	10% - 30% of mass 198	30536	18.40	
365	> 1% of mass 198	3008	1.81	
441	Present, < mass 443	14908	59.66	
442	> 40% and < 100% of mass 198	124452	74.99	
443	17% - 23% of mass 442	24988	20.08	

Analyst: LLH Date: 11/09/07 Reviewer: AD Date: 11/09/07

537450230006

CURTIS & TOMPKINS DFTPP TUNE FOR 198903 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 537451529001 File : wk901 Time : 09-NOV-2007 13:29

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	130216	41.18	
68	< 2% of mass 69	0	0.00	
69		153024		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	150592	47.62	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	21920	6.93	
275	10% - 30% of mass 198	58320	18.44	
365	> 1% of mass 198	7502	2.37	
441	Present, < mass 443	36768	78.60	
442	> 40% and < 100% of mass 198	220672	69.78	
443	17% - 23% of mass 442	46776	21.20	

Analyst: LLH Date: 11/12/07 Reviewer: AD Date: 11/12/07

537451529001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517441291001
Units : ug/mL

Name : 2PAHSIM
Date : 02-NOV-2007 14:33
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	uk207	517441291007	0.1/0.5UG/ML PAHDIOX	02-NOV-2007 14:33	S7213
L2	uk208	517441291008	0.2/1.0UG/ML PAHDIOX	02-NOV-2007 15:14	S7214
L3	uk209	517441291009	0.5/2.5UG/ML PAHDIOX	02-NOV-2007 15:55	S7215
L4	uk210	517441291010	1.0/5.0UG/ML PAHDIOX	02-NOV-2007 16:31	S7216
L5	uk211	517441291011	2.0/10.0UG/ML PAHDIO	02-NOV-2007 17:07	S7217
L6	uk212	517441291012	5.0/25.0UG/ML PAHDIO	02-NOV-2007 17:43	S7218
L7	uk213	517441291013	10.0/50.0UG/ML PAHDI	02-NOV-2007 18:19	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0639	1.0823	1.0856	1.1040	1.1332	1.1131	1.0916	AVRG		0.91222		1.0962	2	15	0.05	0.99	
2-Methylnaphthalene	0.6357	0.6327	0.6493	0.6889	0.7064	0.6851	0.6560	AVRG		1.50406		0.6649	4	15	0.05	0.99	
Acenaphthylene	1.8691	1.9772	1.8721	1.8864	1.9509	2.0678	1.9515	AVRG		0.51566		1.9393	4	15	0.05	0.99	
Acenaphthene	1.0159	1.0928	1.0242	1.0541	1.1281	1.1167	1.0762	AVRG		0.93232		1.0726	4	15	0.05	0.99	
Fluorene	1.2548	1.3014	1.2069	1.2491	1.2902	1.3355	1.2057	AVRG		0.79154		1.2634	4	15	0.05	0.99	
Phenanthrene	1.1292m	1.2024	1.1937	1.2045	1.1824	1.1754	1.2048	AVRG		0.84414		1.1846	2	15	0.05	0.99	
Anthracene	1.0203m	1.1253m	1.0649m	1.0639m	1.1298	1.0908m	1.0707	AVRG		0.92521		1.0808	4	15	0.05	0.99	
Fluoranthene	1.0832	1.1668	1.1140	1.1525	1.2037	1.1694	1.2065	AVRG		0.86463		1.1566	4	15	0.05	0.99	
Pyrene	1.8526	2.0391	1.8341	1.8720	1.7668	1.7596	1.6633	AVRG		0.54741		1.8268	6	15	0.05	0.99	
Benzo(a)anthracene	1.1417	1.1877m	1.1715	1.2070	1.2427	1.2768	1.2573	AVRG		0.82502		1.2121	4	15	0.05	0.99	
Chrysene	1.1638m	1.2611m	1.1702m	1.2135m	1.2485	1.1741	1.1845	AVRG		0.83179		1.2022	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3117	1.4346m	1.4072	1.5151	1.4590	1.4492	1.4097	AVRG		0.70094		1.4267	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.2810m	1.4441	1.4226	1.4871	1.4949	1.6051	1.6111	AVRG		0.67660		1.4780	8	15	0.05	0.99	
Benzo(a)pyrene	0.9774m	1.0759	1.0971	1.1613	1.2506	1.2644	1.2978	AVRG		0.86160		1.1606	10	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9592m	0.9941m	1.0273m	1.0226	1.1734	1.2215	1.2664	AVRG		0.91331		1.0949	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6926m	0.8080m	0.7864	0.7933	0.9054	0.9571	1.0173	AVRG		1.17447		0.8514	13	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9227m	0.9829m	0.9663	0.9096	1.0016	1.0677	1.0671	AVRG		1.01188		0.9883	6	15	0.05	0.99	
Nitrobenzene-d5	0.2886m	0.2785m	0.2938m	0.2894m	0.2991	0.3061	0.2988	AVRG		3.40744		0.2935	3	15	0.05	0.99	
2-Fluorobiphenyl	1.3097	1.3536	1.2990	1.2974	1.2619	1.3343	1.2572	AVRG		0.76813		1.3019	3	15	0.05	0.99	
Terphenyl-d14	1.2533	1.2554	1.2006	1.2455	1.2170	1.1718	1.1433	AVRG		0.82481		1.2124	4	15	0.05	0.99	

8259

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	-1	1.000	1	2.000	3	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-4	0.200	-5	0.500	-2	1.000	4	2.000	6	5.000	3	10.00	-1
Acenaphthylene	0.100	-4	0.200	2	0.500	-3	1.000	-3	2.000	1	5.000	7	10.00	1
Acenaphthene	0.100	-5	0.200	2	0.500	-5	1.000	-2	2.000	5	5.000	4	10.00	0
Fluorene	0.100	-1	0.200	3	0.500	-4	1.000	-1	2.000	2	5.000	6	10.00	-5
Phenanthrene	0.100	-5	0.200	1	0.500	1	1.000	2	2.000	0	5.000	-1	10.00	2
Anthracene	0.100	-6	0.200	4	0.500	-1	1.000	-2	2.000	5	5.000	1	10.00	-1
Fluoranthene	0.100	-6	0.200	1	0.500	-4	1.000	0	2.000	4	5.000	1	10.00	4
Pyrene	0.100	1	0.200	12	0.500	0	1.000	2	2.000	-3	5.000	-4	10.00	-9
Benzo(a)anthracene	0.100	-6	0.200	-2	0.500	-3	1.000	0	2.000	3	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	5	0.500	-3	1.000	1	2.000	4	5.000	-2	10.00	-1
Benzo(b)fluoranthene	0.100	-8	0.200	1	0.500	-1	1.000	6	2.000	2	5.000	2	10.00	-1
Benzo(k)fluoranthene	0.100	-13	0.200	-2	0.500	-4	1.000	1	2.000	1	5.000	9	10.00	9
Benzo(a)pyrene	0.100	-16	0.200	-7	0.500	-5	1.000	0	2.000	8	5.000	9	10.00	12
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-9	0.500	-6	1.000	-7	2.000	7	5.000	12	10.00	16
Dibenz(a,h)anthracene	0.100	-19	0.200	-5	0.500	-8	1.000	-7	2.000	6	5.000	12	10.00	19
Benzo(g,h,i)perylene	0.100	-7	0.200	-1	0.500	-2	1.000	-8	2.000	1	5.000	8	10.00	8
Nitrobenzene-d5	0.100	-2	0.200	-5	0.500	0	1.000	-1	2.000	2	5.000	4	10.00	2
2-Fluorobiphenyl	0.100	1	0.200	4	0.500	0	1.000	0	2.000	-3	5.000	2	10.00	-3
Terphenyl-d14	0.100	3	0.200	4	0.500	-1	1.000	3	2.000	0	5.000	-3	10.00	-6

JGM 11/02/07 : Manual integrations for tailing/misidentified peaks.

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 517441291001 Cal Date : 02-NOV-2007

ICV 517441291015 (uk215 02-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0962	1.0045	1.000	0.9164	ug/mL	-8	20	
2-Methylnaphthalene	0.6649	0.5940	1.000	0.8935	ug/mL	-11	20	
Acenaphthylene	1.9393	1.8656	1.000	0.9620	ug/mL	-4	20	
Acenaphthene	1.0726	0.9993	1.000	0.9317	ug/mL	-7	20	
Fluorene	1.2634	1.1648	1.000	0.9220	ug/mL	-8	20	
Phenanthrene	1.1846	1.0678	1.000	0.9014	ug/mL	-10	20	
Anthracene	1.0808	1.1002	1.000	1.018	ug/mL	2	20	
Fluoranthene	1.1566	1.1099	1.000	0.9596	ug/mL	-4	20	
Pyrene	1.8268	1.7231	1.000	0.9432	ug/mL	-6	20	
Benzo(a)anthracene	1.2121	1.1245	1.000	0.9278	ug/mL	-7	20	
Chrysene	1.2022	1.1778	1.000	0.9797	ug/mL	-2	20	
Benzo(b)fluoranthene	1.4267	1.2951	1.000	0.9078	ug/mL	-9	20	
Benzo(k)fluoranthene	1.4780	1.5735	1.000	1.065	ug/mL	6	20	
Benzo(a)pyrene	1.1606	1.1339	1.000	0.9770	ug/mL	-2	20	
Indeno(1,2,3-cd)pyrene	1.0949	0.9389	1.000	0.8575	ug/mL	-14	20	
Dibenz(a,h)anthracene	0.8514	0.7382	1.000	0.8670	ug/mL	-13	20	
Benzo(g,h,i)perylene	0.9883	0.8900	1.000	0.9006	ug/mL	-10	20	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 198903 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA04
Calnum : 537440171001
Units : ug/mL

Name : 4PAHSIM
Date : 01-NOV-2007 18:18
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	wk104	537440171004	0.1/0.5UG/ML	01-NOV-2007 18:18	S7213
L2	wk105	537440171005	0.2/1.0UG/ML	01-NOV-2007 18:49	S7214
L3	wk106	537440171006	0.5/2.5UG/ML	01-NOV-2007 19:18	S7215
L4	wk107	537440171007	1.0/5.0UG/ML	01-NOV-2007 19:47	S7216
L5	wk108	537440171008	2.0/10.0UG/ML	01-NOV-2007 20:17	S7217
L6	wk109	537440171009	5.0/25.0UG/ML	01-NOV-2007 20:46	S7218
L7	wk110	537440171010	10.0/50.0UG/ML	01-NOV-2007 21:16	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1882	1.1822	1.1224	1.0669	0.9736	0.8930	0.8051	AVRG		0.96799		1.0331	14	15	0.05	0.99	
2-Methylnaphthalene	0.7746	0.7489m	0.7207m	0.6981	0.6472	0.6058	0.5571	AVRG		1.47297		0.6789	12	15	0.05	0.99	
Acenaphthylene	2.2522	2.1767	2.1313	2.0156	1.8836	1.6740	1.5649	AVRG		0.51101		1.9569	13	15	0.05	0.99	
Acenaphthene	1.2379m	1.2372m	1.1836m	1.1810m	1.1214	1.0153	0.9175	AVRG		0.88677		1.1277	11	15	0.05	0.99	
Fluorene	1.3591	1.3224	1.2474	1.2458	1.1951	1.0969	1.0255	AVRG		0.82430		1.2131	10	15	0.05	0.99	
Phenanthrene	1.3384	1.3512	1.3088	1.2458	1.1683	1.0410	0.9447	AVRG		0.83352		1.1997	13	15	0.05	0.99	
Anthracene	1.1857m	1.2148m	1.2071m	1.1428m	1.1071m	1.0113m	0.9488m	AVRG		0.89541		1.1168	9	15	0.05	0.99	
Fluoranthene	1.4727	1.4343	1.3947	1.3690	1.2783	1.1156	1.0420	AVRG		0.76868		1.3009	13	15	0.05	0.99	
Pyrene	1.8988	1.8415	1.7634	1.5911	1.4575	1.3300		AVRG		0.60715		1.6470	14	15	0.05	0.99	
Benzo(a)anthracene	1.2968	1.2735	1.2569	1.2499	1.1933	1.1159	1.0523	AVRG		0.82954		1.2055	8	15	0.05	0.99	
Chrysene	1.3916m	1.3858m	1.3784m	1.3333m	1.2516m	1.1095m	1.0613m	AVRG		0.78550		1.2731	11	15	0.05	0.99	
Benzo(b)fluoranthene	1.2222m	1.1676	1.1615	1.1564	1.0725	1.0652	1.0196	AVRG		0.89002		1.1236	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.3993m	1.3385m	1.3596m	1.3102m	1.2329m	1.1317m	1.0808m	AVRG		0.79070		1.2647	10	15	0.05	0.99	
Benzo(a)pyrene	1.0976m	1.0905	1.0952	1.1306	1.1063	1.0652	1.0121	AVRG		0.92135		1.0854	3	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.1659m	1.1249m	1.2095m	1.2590m	1.2275	1.2138	1.2149	AVRG		0.83179		1.2022	4	15	0.05	0.99	
Dibenz(a,h)anthracene	0.7484m	0.7445m	0.8486m	0.9052m	0.9093	0.9463	0.9494	AVRG		1.15671		0.8645	10	15	0.05	0.99	
Benzo(g,h,i)perylene	1.3748m	1.3011m	1.3105m	1.2788m	1.2160m	1.1465m	1.1039m	AVRG		0.80168		1.2474	8	15	0.05	0.99	
Nitrobenzene-d5	0.3394	0.3330	0.3240	0.3192	0.3109	0.3028	0.2842	AVRG		3.16228		0.3162	6	15	0.05	0.99	
2-Fluorobiphenyl	1.5511	1.5028	1.4240	1.3604	1.2750	1.1349	1.0713	AVRG		0.75110		1.3314	14	15	0.05	0.99	
Terphenyl-d14	1.2981	1.2363	1.1787	1.1206	1.0375	0.9517	0.8981	AVRG		0.90661		1.1030	13	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	15	0.200	14	0.500	9	1.000	3	2.000	-6	5.000	-14	10.00	-22
2-Methylnaphthalene	0.100	14	0.200	10	0.500	6	1.000	3	2.000	-5	5.000	-11	10.00	-18
Acenaphthylene	0.100	15	0.200	11	0.500	9	1.000	3	2.000	-4	5.000	-14	10.00	-20
Acenaphthene	0.100	10	0.200	10	0.500	5	1.000	5	2.000	-1	5.000	-10	10.00	-19
Fluorene	0.100	12	0.200	9	0.500	3	1.000	3	2.000	-1	5.000	-10	10.00	-15
Phenanthrene	0.100	12	0.200	13	0.500	9	1.000	4	2.000	-3	5.000	-13	10.00	-21
Anthracene	0.100	6	0.200	9	0.500	8	1.000	2	2.000	-1	5.000	-9	10.00	-15
Fluoranthene	0.100	13	0.200	10	0.500	7	1.000	5	2.000	-2	5.000	-14	10.00	-20
Pyrene	0.100	15	0.200	12	0.500	7	1.000	-3	2.000	-12	5.000	-19		
Benzo(a)anthracene	0.100	8	0.200	6	0.500	4	1.000	4	2.000	-1	5.000	-7	10.00	-13
Chrysene	0.100	9	0.200	9	0.500	8	1.000	5	2.000	-2	5.000	-13	10.00	-17
Benzo(b)fluoranthene	0.100	9	0.200	4	0.500	3	1.000	3	2.000	-5	5.000	-5	10.00	-9
Benzo(k)fluoranthene	0.100	11	0.200	6	0.500	8	1.000	4	2.000	-3	5.000	-11	10.00	-15
Benzo(a)pyrene	0.100	1	0.200	0	0.500	1	1.000	4	2.000	2	5.000	-2	10.00	-7
Indeno(1,2,3-cd)pyrene	0.100	-3	0.200	-6	0.500	1	1.000	5	2.000	2	5.000	1	10.00	1
Dibenz(a,h)anthracene	0.100	-13	0.200	-14	0.500	-2	1.000	5	2.000	5	5.000	9	10.00	10
Benzo(g,h,i)perylene	0.100	10	0.200	4	0.500	5	1.000	3	2.000	-3	5.000	-8	10.00	-11
Nitrobenzene-d5	0.100	7	0.200	5	0.500	2	1.000	1	2.000	-2	5.000	-4	10.00	-10
2-Fluorobiphenyl	0.100	17	0.200	13	0.500	7	1.000	2	2.000	-4	5.000	-15	10.00	-20
Terphenyl-d14	0.100	18	0.200	12	0.500	7	1.000	2	2.000	-6	5.000	-14	10.00	-19

LLH 11/02/07 : Manual integrations due to tailing, splitting or misidentified peaks.

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 198903 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA04 Name : 4PAHSIM
Calnum : 537440171001 Cal Date : 01-NOV-2007

ICV 537441645002 (wk202 02-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0331	0.9989	1.000	0.9669	ug/mL	-3	20	
2-Methylnaphthalene	0.6789	0.6209	1.000	0.9146	ug/mL	-9	20	m
Acenaphthylene	1.9569	1.8610	1.000	0.9510	ug/mL	-5	20	
Acenaphthene	1.1277	1.0716	1.000	0.9503	ug/mL	-5	20	m
Fluorene	1.2131	1.1456	1.000	0.9443	ug/mL	-6	20	
Phenanthrene	1.1997	1.1602	1.000	0.9671	ug/mL	-3	20	
Anthracene	1.1168	1.1810	1.000	1.057	ug/mL	6	20	m
Fluoranthene	1.3009	1.2877	1.000	0.9898	ug/mL	-1	20	
Pyrene	1.6470	1.5573	1.000	0.9455	ug/mL	-5	20	
Benzo(a)anthracene	1.2055	1.1580	1.000	0.9606	ug/mL	-4	20	
Chrysene	1.2731	1.2789	1.000	1.005	ug/mL	0	20	m
Benzo(b)fluoranthene	1.1236	1.0684	1.000	0.9509	ug/mL	-5	20	
Benzo(k)fluoranthene	1.2647	1.1937	1.000	0.9438	ug/mL	-6	20	m
Benzo(a)pyrene	1.0854	1.0379	1.000	0.9563	ug/mL	-4	20	
Indeno(1,2,3-cd)pyrene	1.2022	1.0881	1.000	0.9050	ug/mL	-10	20	m
Dibenz(a,h)anthracene	0.8645	0.8085	1.000	0.9352	ug/mL	-6	20	m
Benzo(g,h,i)perylene	1.2474	1.1844	1.000	0.9495	ug/mL	-5	20	m

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 10/1UG/ML IDF : 1.0
Seqnum : 517441291015.2 File : uk215 Time : 02-NOV-2007 19:13
Cal : 517441291001 Caldate : 02-NOV-2007
Standards: S7592

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Max %D	Min RF	Flags
Naphthalene	1.0962	1.0045	1.000	0.9164	ug/mL	-8	20	20	0.0500	
2-Methylnaphthalene	0.6649	0.5940	1.000	0.8935	ug/mL	-11	20	20	0.0500	
Acenaphthylene	1.9393	1.8656	1.000	0.9620	ug/mL	-4	20	20	0.0500	
Acenaphthene	1.0726	0.9993	1.000	0.9317	ug/mL	-7	20	20	0.0500	
Fluorene	1.2634	1.1648	1.000	0.9220	ug/mL	-8	20	20	0.0500	
Phenanthrene	1.1846	1.0678	1.000	0.9014	ug/mL	-10	20	20	0.0500	
Anthracene	1.0808	1.1002	1.000	1.018	ug/mL	2	20	20	0.0500	
Fluoranthene	1.1566	1.1099	1.000	0.9596	ug/mL	-4	20	20	0.0500	
Pyrene	1.8268	1.7231	1.000	0.9432	ug/mL	-6	20	20	0.0500	
Benzo(a)anthracene	1.2121	1.1245	1.000	0.9278	ug/mL	-7	20	20	0.0500	
Chrysene	1.2022	1.1778	1.000	0.9797	ug/mL	-2	20	20	0.0500	
Benzo(b)fluoranthene	1.4267	1.2951	1.000	0.9078	ug/mL	-9	20	20	0.0500	
Benzo(k)fluoranthene	1.4780	1.5735	1.000	1.065	ug/mL	6	20	20	0.0500	
Benzo(a)pyrene	1.1606	1.1339	1.000	0.9770	ug/mL	-2	20	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0949	0.9389	1.000	0.8575	ug/mL	-14	20	20	0.0500	
Dibenz(a,h)anthracene	0.8514	0.7382	1.000	0.8670	ug/mL	-13	20	20	0.0500	
Benzo(g,h,i)perylene	0.9883	0.8900	1.000	0.9006	ug/mL	-10	20	20	0.0500	
Nitrobenzene-d5	0.2935	0.2675	1.000	0.9114	ug/mL	-9	20	20	0.0500	
2-Fluorobiphenyl	1.3019	1.2339	1.000	0.9478	ug/mL	-5	20	20	0.0500	
Terphenyl-d14	1.2124	1.1442	1.000	0.9438	ug/mL	-6	20	20	0.0500	

Analyst: AD Date: 11/05/07 Reviewer: JGM Date: 11/06/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 0.5/2.5UG/ML IDF : 1.0
Seqnum : 517445566002.1 File : uk502 Time : 05-NOV-2007 09:34
Cal : 517441291001 Caldate : 02-NOV-2007
Standards: S7215

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0962	1.1585	0.5000	0.5284	ug/mL	6	20	0.0500	m
2-Methylnaphthalene	0.6649	0.6552	0.5000	0.4928	ug/mL	-1	20	0.0500	
Acenaphthylene	1.9393	1.9670	0.5000	0.5071	ug/mL	1	20	0.0500	
Acenaphthene	1.0726	1.0843	0.5000	0.5055	ug/mL	1	20	0.0500	
Fluorene	1.2634	1.2510	0.5000	0.4951	ug/mL	-1	20	0.0500	
Phenanthrene	1.1846	1.1844	0.5000	0.4999	ug/mL	0	20	0.0500	
Anthracene	1.0808	1.0844	0.5000	0.5017	ug/mL	0	20	0.0500	m
Fluoranthene	1.1566	1.1701	0.5000	0.5059	ug/mL	1	20	0.0500	
Pyrene	1.8268	1.6857	0.5000	0.4614	ug/mL	-8	20	0.0500	
Benzo(a)anthracene	1.2121	1.1613	0.5000	0.4790	ug/mL	-4	20	0.0500	
Chrysene	1.2022	1.2016	0.5000	0.4998	ug/mL	0	20	0.0500	m
Benzo(b)fluoranthene	1.4267	1.3077	0.5000	0.4583	ug/mL	-8	20	0.0500	
Benzo(k)fluoranthene	1.4780	1.4987	0.5000	0.5070	ug/mL	1	20	0.0500	
Benzo(a)pyrene	1.1606	1.1015	0.5000	0.4745	ug/mL	-5	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0949	1.0985	0.5000	0.5016	ug/mL	0	20	0.0500	m
Dibenz(a,h)anthracene	0.8514	0.8448	0.5000	0.4961	ug/mL	-1	20	0.0500	m
Benzo(g,h,i)perylene	0.9883	1.0362	0.5000	0.5242	ug/mL	5	20	0.0500	m
Nitrobenzene-d5	0.2935	0.3191	0.5000	0.5437	ug/mL	9	20	0.0500	m
2-Fluorobiphenyl	1.3019	1.3514	0.5000	0.5190	ug/mL	4	20	0.0500	
Terphenyl-d14	1.2124	1.0728	0.5000	0.4424	ug/mL	-12	20	0.0500	

Analyst: AD Date: 11/05/07 Reviewer: JGM Date: 11/06/07

m=manual integration

517445566002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : CCV4 IDF : 1.0
Seqnum : 517450361004.1 File : uk804 Time : 08-NOV-2007 19:17
Cal : 517441291001 Caldate : 02-NOV-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0962	1.1796	1.000	1.076	ug/mL	8	20	0.0500	
2-Methylnaphthalene	0.6649	0.6968	1.000	1.048	ug/mL	5	20	0.0500	m
Acenaphthylene	1.9393	2.0041	1.000	1.033	ug/mL	3	20	0.0500	
Acenaphthene	1.0726	1.1124	1.000	1.037	ug/mL	4	20	0.0500	
Fluorene	1.2634	1.2785	1.000	1.012	ug/mL	1	20	0.0500	
Phenanthrene	1.1846	1.2702	1.000	1.072	ug/mL	7	20	0.0500	
Anthracene	1.0808	1.1510	1.000	1.065	ug/mL	7	20	0.0500	m
Fluoranthene	1.1566	1.2274	1.000	1.061	ug/mL	6	20	0.0500	
Pyrene	1.8268	1.6785	1.000	0.9188	ug/mL	-8	20	0.0500	
Benzo(a)anthracene	1.2121	1.2491	1.000	1.031	ug/mL	3	20	0.0500	
Chrysene	1.2022	1.2326	1.000	1.025	ug/mL	3	20	0.0500	m
Benzo(b)fluoranthene	1.4267	1.3137	1.000	0.9208	ug/mL	-8	20	0.0500	
Benzo(k)fluoranthene	1.4780	1.4248	1.000	0.9640	ug/mL	-4	20	0.0500	m
Benzo(a)pyrene	1.1606	1.1565	1.000	0.9964	ug/mL	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0949	1.2612	1.000	1.152	ug/mL	15	20	0.0500	
Dibenz(a,h)anthracene	0.8514	0.9940	1.000	1.168	ug/mL	17	20	0.0500	
Benzo(g,h,i)perylene	0.9883	1.1330	1.000	1.147	ug/mL	15	20	0.0500	
Nitrobenzene-d5	0.2935	0.3836	1.000	1.307	ug/mL	**31**	20	0.0500	c+
2-Fluorobiphenyl	1.3019	1.3054	1.000	1.003	ug/mL	0	20	0.0500	
Terphenyl-d14	1.2124	1.0461	1.000	0.8628	ug/mL	-14	20	0.0500	

Analyst: LLH Date: 11/09/07 Reviewer: AD Date: 11/09/07

+=high bias c=CCV m=manual integration

517450361004.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA04 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 537450230007.2 File : wk807 Time : 08-NOV-2007 18:55
Cal : 537440171001 Caldate : 01-NOV-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0331	1.0626	1.000	1.029	ug/mL	3	20	0.0500	
2-Methylnaphthalene	0.6789	0.6169	1.000	0.9087	ug/mL	-9	20	0.0500	
Acenaphthylene	1.9569	2.0563	1.000	1.051	ug/mL	5	20	0.0500	
Acenaphthene	1.1277	1.1596	1.000	1.028	ug/mL	3	20	0.0500	
Fluorene	1.2131	1.2100	1.000	0.9974	ug/mL	0	20	0.0500	
Phenanthrene	1.1997	1.3042	1.000	1.087	ug/mL	9	20	0.0500	
Anthracene	1.1168	1.1682	1.000	1.046	ug/mL	5	20	0.0500	m
Fluoranthene	1.3009	1.1860	1.000	0.9117	ug/mL	-9	20	0.0500	
Pyrene	1.6470	1.7674	1.000	1.073	ug/mL	7	20	0.0500	
Benzo(a)anthracene	1.2055	1.1719	1.000	0.9722	ug/mL	-3	20	0.0500	
Chrysene	1.2731	1.3807	1.000	1.085	ug/mL	8	20	0.0500	m
Benzo(b)fluoranthene	1.1236	1.2568	1.000	1.119	ug/mL	12	20	0.0500	
Benzo(k)fluoranthene	1.2647	1.9427	1.000	1.536	ug/mL	**54**	20	0.0500	c+ m ***
Benzo(a)pyrene	1.0854	1.2119	1.000	1.117	ug/mL	12	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2022	1.3896	1.000	1.156	ug/mL	16	20	0.0500	m
Dibenz(a,h)anthracene	0.8645	1.0776	1.000	1.247	ug/mL	**25**	20	0.0500	c+ m ***
Benzo(g,h,i)perylene	1.2474	1.3105	1.000	1.051	ug/mL	5	20	0.0500	m
Nitrobenzene-d5	0.3162	0.2946	1.000	0.9317	ug/mL	-7	20	0.0500	
2-Fluorobiphenyl	1.3314	1.5496	1.000	1.164	ug/mL	16	20	0.0500	
Terphenyl-d14	1.1030	1.1966	1.000	1.085	ug/mL	8	20	0.0500	

Analyst: LLH Date: 11/09/07 Reviewer: AD Date: 11/09/07

+=high bias c=CCV m=manual integration

537450230007.2

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 198903 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA04 Run Name : 1.0/5 UG/ML IDF : 1.0
Seqnum : 537451529006.2 File : wk906 Time : 09-NOV-2007 17:21
Cal : 537440171001 Caldate : 01-NOV-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0331	1.0666	1.000	1.032	ug/mL	3	20	0.0500	
2-Methylnaphthalene	0.6789	0.7188	1.000	1.059	ug/mL	6	20	0.0500	m
Acenaphthylene	1.9569	1.9854	1.000	1.015	ug/mL	1	20	0.0500	
Acenaphthene	1.1277	1.1587	1.000	1.028	ug/mL	3	20	0.0500	
Fluorene	1.2131	1.2507	1.000	1.031	ug/mL	3	20	0.0500	
Phenanthrene	1.1997	1.2555	1.000	1.047	ug/mL	5	20	0.0500	
Anthracene	1.1168	1.1431	1.000	1.024	ug/mL	2	20	0.0500	m
Fluoranthene	1.3009	1.2872	1.000	0.9895	ug/mL	-1	20	0.0500	
Pyrene	1.6470	1.6831	1.000	1.022	ug/mL	2	20	0.0500	
Benzo(a)anthracene	1.2055	1.2864	1.000	1.067	ug/mL	7	20	0.0500	
Chrysene	1.2731	1.2782	1.000	1.004	ug/mL	0	20	0.0500	m
Benzo(b)fluoranthene	1.1236	1.2177	1.000	1.084	ug/mL	8	20	0.0500	
Benzo(k)fluoranthene	1.2647	1.3449	1.000	1.063	ug/mL	6	20	0.0500	m
Benzo(a)pyrene	1.0854	1.1420	1.000	1.052	ug/mL	5	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2022	1.2343	1.000	1.027	ug/mL	3	20	0.0500	m
Dibenz(a,h)anthracene	0.8645	0.9590	1.000	1.109	ug/mL	11	20	0.0500	m
Benzo(g,h,i)perylene	1.2474	1.1912	1.000	0.9550	ug/mL	-5	20	0.0500	m
Nitrobenzene-d5	0.3162	0.3190	1.000	1.009	ug/mL	1	20	0.0500	
2-Fluorobiphenyl	1.3314	1.3352	1.000	1.003	ug/mL	0	20	0.0500	
Terphenyl-d14	1.1030	1.1792	1.000	1.069	ug/mL	7	20	0.0500	

Analyst: LLH Date: 11/12/07 Reviewer: AD Date: 11/12/07

m=manual integration

537451529006.2

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517441291

Date : 11/02/07
Sequence : MSBNA02 uk2

Reference : uk215
Analyzed : 11/02/07 19:13

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	19214	8.32	83159	9.90	41739	12.17	59282	14.12	36943	17.70	23070	19.69
		LOWER LIMIT	9607	7.82	41580	9.40	20870	11.67	29641	13.62	18472	17.20	11535	19.19
		UPPER LIMIT	38428	8.82	166318	10.40	83478	12.67	118564	14.62	73886	18.20	46140	20.19
015	ICV/CCV	10/1UG/ML	19214	8.32	83159	9.90	41739	12.17	59282	14.12	36943	17.70	23070	19.69
016	BLANK	QC413150	17893	8.32	79318	9.90	41702	12.17	58546	14.13	30321	17.70	17991	19.69
017	BS	QC413151	19376	8.32	85667	9.90	44296	12.17	62832	14.12	37349	17.70	23454	19.69
018	BSD	QC413152	19177	8.32	87807	9.90	42735	12.17	60754	14.12	37292	17.70	22566	19.69
019	BLANK	QC413366	17664	8.32	76050	9.89	38174	12.17	54891	14.12	32146	17.70	17657	19.69
020	LCS	QC413367	16851	8.32	73617	9.89	37098	12.17	55280	14.12	35405	17.70	21731	19.69
021	SAMPLE	198837-001	18922	8.32	83680	9.89	42584	12.17	56507	14.12	33089	17.70	22642	19.69
022	MSS	198767-005	19976	8.32	85209	9.89	42484	12.17	61950	14.12	35111	17.70	21932	19.69
023	MS	QC413368	17998	8.32	80006	9.89	39768	12.17	57886	14.12	36563	17.70	23152	19.69
024	MSD	QC413369	18298	8.32	78521	9.89	41467	12.17	59086	14.12	38581	17.70	24094	19.69
025	SAMPLE	198799-001	21856	8.32	97147	9.89	47597	12.17	66643	14.12	33979	17.69	19643	19.69
026	BLANK	QC413563	17825	8.31	75796	9.89	38518	12.17	56684	14.12	31361	17.69	18180	19.69
027	LCS	QC413564	19207	8.32	81221	9.89	40678	12.17	61228	14.12	38875	17.69	22850	19.68
028	SAMPLE	198880-001	18308	8.32	83083	9.90	43912	12.17	59459	14.12	31657	17.70	21379	19.69
029	SAMPLE	198880-002	19025	8.32	82563	9.89	42576	12.17	56510	14.12	30900	17.70	20366	19.69
030	MSS	198903-001	19898	8.31	88726	9.89	44704	12.17	64013	14.12	33438	17.70	20898	19.69
031	SAMPLE	198903-002	24042	8.32	102706	9.89	49070	12.17	65238	14.12	36038	17.70	23925	19.69
032	SAMPLE	198903-003	22598	8.32	101667	9.89	46703	12.17	61665	14.12	33922	17.70	22488	19.69
033	SAMPLE	198903-006	19863	8.31	89545	9.89	46458	12.17	64809	14.12	35378	17.70	23943	19.69

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517445566

Date : 11/05/07
Sequence : MSBNA02 uk5

Reference : uk502
Analyzed : 11/05/07 09:34

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	30899	8.32	125831	9.89	57201	12.17	85581	14.12	58795	17.70	39547	19.69
		LOWER LIMIT	15450	7.82	62916	9.39	28601	11.67	42791	13.62	29398	17.20	19774	19.19
		UPPER LIMIT	61798	8.82	251662	10.39	114402	12.67	171162	14.62	117590	18.20	79094	20.19
002	CCV	0.5/2.5UG/ML	30899	8.32	125831	9.89	57201	12.17	85581	14.12	58795	17.70	39547	19.69
005	SAMPLE	198910-001	25380	8.32	111051	9.89	48811	12.17	75657	14.13	53016	17.70	34334	19.70
008	MS	QC413567	29560	8.32	122669	9.90	61022	12.17	89253	14.13	59914	17.70	37907	19.69
009	MSD	QC413568	27277	8.32	117924	9.90	57458	12.17	84473	14.13	57037	17.70	35845	19.70

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517450361

Date : 11/08/07
Sequence : MSBNA02 uk8

Reference : uk804
Analyzed : 11/08/07 19:17

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	38554	8.31	161018	9.89	73872	12.16	101643	14.12	74299	17.69	55942	19.68
		LOWER LIMIT	19277	7.81	80509	9.39	36936	11.66	50822	13.62	37150	17.19	27971	19.18
		UPPER LIMIT	77108	8.81	322036	10.39	147744	12.66	203286	14.62	148598	18.19	111884	20.18
004	CCV	CCV4	38554	8.31	161018	9.89	73872	12.16	101643	14.12	74299	17.69	55942	19.68
005	SAMPLE	199042-004	31724	8.31	131539	9.89	58933	12.16	80515	14.12	51602	17.69	37649	19.68
006	SAMPLE	199042-005	34705	8.31	147200	9.88	68316	12.16	95508	14.12	65846	17.69	52013	19.68
007	SAMPLE	199025-003	32615	8.31	145493	9.88	61553	12.16	85072	14.12	54508	17.69	40927	19.68
008	SAMPLE	199025-006	32807	8.31	139536	9.88	59670	12.16	78328	14.12	51211	17.69	37259	19.68
009	SAMPLE	199025-008	32610	8.31	138536	9.88	60315	12.16	84026	14.12	54606	17.69	41576	19.68
010	SAMPLE	199025-012	32745	8.31	140127	9.89	60692	12.16	84158	14.12	52120	17.69	35224	19.68
011	SAMPLE	198903-007	31873	8.31	137401	9.89	60301	12.16	83027	14.12	58630	17.69	47065	19.68
012	SAMPLE	199008-017	33267	8.31	140745	9.88	60218	12.16	84322	14.12	52699	17.69	41094	19.68
013	SAMPLE	199008-009	29983	8.31	131303	9.88	59132	12.16	80007	14.12	52023	17.69	39301	19.68
014	SAMPLE	199008-010	34858	8.31	149734	9.89	66549	12.16	89705	14.12	60300	17.69	45803	19.68
015	SAMPLE	199008-014	33211	8.31	140231	9.89	62442	12.16	84780	14.12	54609	17.69	41192	19.68
016	SAMPLE	199021-003	33738	8.31	151873	9.88	68109	12.16	93987	14.12	65419	17.69	47083	19.68
017	MSS	199042-003	40140	8.31	173077	9.89	79708	12.16	111857	14.12	75280	17.69	44331	19.68
018	MS	QC414298	33372	8.31	147873	9.88	64103	12.16	90045	14.12	59769	17.69	44592	19.68
019	MSD	QC414299	33993	8.31	147786	9.88	65209	12.16	87462	14.12	60502	17.69	41121	19.68
020	SAMPLE	199008-021	41702	8.31	182362	9.88	79873	12.16	108450	14.12	76549	17.69	59494	19.68
021	SAMPLE	199008-001	38072	8.31	169157	9.88	75579	12.16	101950	14.12	68680	17.69	49958	19.68
022	SAMPLE	199008-006	37190	8.31	160238	9.88	71297	12.16	97938	14.12	65639	17.69	46583	19.68
023	SAMPLE	199008-023	34717	8.30	159927	9.88	68418	12.16	93174	14.12	61465	17.69	40756	19.68

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 537450230

Date : 11/08/07
Sequence : MSBNA04 wk8

Reference : wk807
Analyzed : 11/08/07 18:55

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	27481	5.80	102171	7.24	35980	9.40	46871	11.29	31477	14.84	24860	16.75
		LOWER LIMIT	13741	5.30	51086	6.74	17990	8.90	23436	10.79	15739	14.34	12430	16.25
		UPPER LIMIT	54962	6.30	204342	7.74	71960	9.90	93742	11.79	62954	15.34	49720	17.25
007	CCV	1/5UG/ML	27481	5.80	102171	7.24	35980	9.40	46871	11.29	31477	14.84	24860	16.75
008	BLANK	QC414296	18836	5.79	75776	7.23	33698	9.39	48508	11.28	30842	14.83	24173	16.74
009	LCS	QC414297	14243	5.80	60681	7.24	27196	9.41	38976	11.29	25279	14.84	18954	16.75
010	SAMPLE	199006-001	14514	5.80	61347	7.24	27492	9.41	41783	11.29	25491	14.85	22360	16.76
011	SAMPLE	199030-017	23998	5.80	87847	7.24	34247	9.41	49371	11.30	30879	14.85	29387	16.76
012	SAMPLE	199030-018	21213	5.80	79736	7.24	32055	9.41	46600	11.30	30938	14.85	27345	16.75

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 537451529

Date : 11/09/07
Sequence : MSBNA04 wk9

Reference : wk906
Analyzed : 11/09/07 17:21

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	34741	5.71	137259	7.13	73461	9.29	103081	11.17	79364	14.71	68919	16.62
		LOWER LIMIT	17371	5.21	68630	6.63	36731	8.79	51541	10.67	39682	14.21	34460	16.12
		UPPER LIMIT	69482	6.21	274518	7.63	146922	9.79	206162	11.67	158728	15.21	137838	17.12
006	CCV	1.0/5 UG/ML	34741	5.71	137259	7.13	73461	9.29	103081	11.17	79364	14.71	68919	16.62
007	SAMPLE	199008-023	33071	5.70	134062	7.13	71812	9.28	95060	11.17	68913	14.71	60381	16.62
008	MS	QC414298	30748	5.70	127694	7.13	71281	9.28	97863	11.16	71708	14.70	64108	16.61
009	MSD	QC414299	30775	5.70	125122	7.13	70535	9.28	99393	11.16	74355	14.70	66391	16.61

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517441291

Instrument : MSBNA02 Begun : 11/02/07 10:51
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk201	TUN	DFTPP/PEM 50UG/ML			11/02/07 10:51	1.0	1	
002	uk202	TUN	DFTPP/PEM 50UG/ML			11/02/07 11:36	1.0	1	
003	uk203	CCV	RT CHECK			11/02/07 12:01	1.0	2	21:DIOXANE14=74
004	uk204	CCV	RT CHECK			11/02/07 12:55	1.0	2	15:DIOXANE14=64
005	uk205	TUN	DFTPP/PEM 50UG/ML			11/02/07 13:40	1.0	1	
006	uk206	TUN	DFTPP/PEM 50UG/ML			11/02/07 14:11	1.0	1	
007	uk207	ICAL	0.1/0.5UG/ML PAHDIOX			11/02/07 14:33	1.0	3	
008	uk208	ICAL	0.2/1.0UG/ML PAHDIOX			11/02/07 15:14	1.0	4	
009	uk209	ICAL	0.5/2.5UG/ML PAHDIOX			11/02/07 15:55	1.0	5	
010	uk210	ICAL	1.0/5.0UG/ML PAHDIOX			11/02/07 16:31	1.0	6	
011	uk211	ICAL	2.0/10.0UG/ML PAHDIO			11/02/07 17:07	1.0	7	
012	uk212	ICAL	5.0/25.0UG/ML PAHDIO			11/02/07 17:43	1.0	8	
013	uk213	ICAL	10.0/50.0UG/ML PAHDI			11/02/07 18:19	1.0	2	
014	uk214	TUN	DFTPP/PEM 50UG/ML			11/02/07 18:51	1.0	1	
015	uk215	ICV/CCV	10/1UG/ML			11/02/07 19:13	1.0	9	
016	uk216	BLANK	QC413150	Water	131165	11/02/07 20:03	1.0	10	
017	uk217	BS	QC413151	Water	131165	11/02/07 20:40	1.0	10	
018	uk218	BSD	QC413152	Water	131165	11/02/07 21:18	1.0	10	
019	uk219	BLANK	QC413366	Soil	131224	11/02/07 21:55	1.0	10	
020	uk220	LCS	QC413367	Soil	131224	11/02/07 22:32	1.0	10	
021	uk221	SAMPLE	198837-001	Soil	131224	11/02/07 23:10	1.0	10	
022	uk222	MSS	198767-005	Soil	131224	11/02/07 23:47	1.0	10	
023	uk223	MS	QC413368	Soil	131224	11/03/07 00:23	1.0	10	
024	uk224	MSD	QC413369	Soil	131224	11/03/07 00:59	1.0	10	
025	uk225	SAMPLE	198799-001	Water	131165	11/03/07 01:35	1.0	10	
026	uk226	BLANK	QC413563	Soil	131279	11/03/07 02:11	1.0	10	
027	uk227	LCS	QC413564	Soil	131279	11/03/07 02:46	1.0	10	
028	uk228	SAMPLE	198880-001	Soil	131279	11/03/07 03:22	2.0	10	
029	uk229	SAMPLE	198880-002	Soil	131279	11/03/07 03:58	2.0	10	
030	uk230	MSS	198903-001	Soil	131279	11/03/07 04:35	1.0	10	
031	uk231	SAMPLE	198903-002	Soil	131279	11/03/07 05:11	3.0	10	
032	uk232	SAMPLE	198903-003	Soil	131279	11/03/07 05:48	5.0	10	
033	uk233	SAMPLE	198903-006	Soil	131279	11/03/07 06:25	1.0	10	

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592 10=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517445566

Instrument : MSBNA02
Method : EPA 8270C, EPA 8270C-SIM
Begun : 11/05/07 09:34
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk501	TUN	DFTPP/PEM 50UG/ML			11/05/07 10:06	1.0	1	
002	uk502	CCV	0.5/2.5UG/ML			11/05/07 09:34	1.0	2	
003	uk503	SAMPLE	198743-021	Soil	131279	11/05/07 10:19	1.0	3	
004	uk504	SAMPLE	198743-021	Soil	131279	11/05/07 11:05	1.0	4	
005	uk505	SAMPLE	198910-001	Soil	131279	11/05/07 11:44	1.0	3	
006	uk506	SAMPLE	198743-006	Soil	131224	11/05/07 12:22	1.0	4	
007	uk507	SAMPLE	198743-011	Soil	131224	11/05/07 12:58	100.0	4	2:BZBF=12
008	uk508	MS	QC413567	Soil	131279	11/05/07 13:35	1.0	4	
009	uk509	MSD	QC413568	Soil	131279	11/05/07 14:13	1.0	4	
010	uk510	CHECK	SIMSURR SPIKECHECK			11/05/07 14:51	1.0	5 4	
011	uk511	SAMPLE	198743-020	Soil	131279	11/05/07 15:28	1.0	4	7:BZBF=42
012	uk512	SAMPLE	198743-026	Soil	131279	11/05/07 16:04	1.0	4	
013	uk513	SAMPLE	198743-024	Soil	131279	11/05/07 16:42	1.0	4	
014	uk514	SAMPLE	198743-007	Soil	131279	11/05/07 17:19	5.0	4	
015	uk515	SAMPLE	198743-019	Soil	131279	11/05/07 17:56	2.0	4	
016	uk516	SAMPLE	198743-022	Soil	131279	11/05/07 18:32	50.0	4	6:BZBF=33
017	uk517	SAMPLE	198743-023	Soil	131279	11/05/07 19:12	50.0	4	7:BZBF=37
018	uk518	SAMPLE	198743-025	Soil	131279	11/05/07 19:50	2.0	4	
019	uk519	MSS	198743-017	Soil	131279	11/05/07 20:31	10.0	4	

Standards used: 1=S7320 2=S7215 3=S7386 4=S7591 5=S7612

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517450361

Instrument : MSBNA02 Begun : 11/08/07 18:01
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	uk801	TUN	DFTPP/PEM 50UG/ML			11/08/07 18:01	1.0	1
002	uk802	TUN	DFTPP/PEM 50UG/ML			11/08/07 18:17	1.0	1
003	uk803	TUN	DFTPP/PEM 50UG/ML			11/08/07 18:38	1.0	1
004	uk804	CCV	CCV4			11/08/07 19:17	1.0	2
005	uk805	SAMPLE	199042-004	Soil	131452	11/08/07 19:56	1.0	3
006	uk806	SAMPLE	199042-005	Soil	131452	11/08/07 20:32	1.0	3
007	uk807	SAMPLE	199025-003	Soil	131452	11/08/07 21:10	1.0	3
008	uk808	SAMPLE	199025-006	Soil	131452	11/08/07 21:47	1.0	3
009	uk809	SAMPLE	199025-008	Soil	131452	11/08/07 22:24	1.0	3
010	uk810	SAMPLE	199025-012	Soil	131452	11/08/07 23:02	1.0	3
011	uk811	SAMPLE	198903-007	Soil	131452	11/08/07 23:40	1.0	3
012	uk812	SAMPLE	199008-017	Soil	131452	11/09/07 00:17	1.0	3
013	uk813	SAMPLE	199008-009	Soil	131452	11/09/07 00:54	1.0	3
014	uk814	SAMPLE	199008-010	Soil	131452	11/09/07 01:31	1.0	3
015	uk815	SAMPLE	199008-014	Soil	131452	11/09/07 02:09	1.0	3
016	uk816	SAMPLE	199021-003	Soil	131452	11/09/07 02:45	10.0	3
017	uk817	MSS	199042-003	Soil	131452	11/09/07 03:21	1.0	3
018	uk818	MS	QC414298	Soil	131452	11/09/07 03:57	1.0	3
019	uk819	MSD	QC414299	Soil	131452	11/09/07 04:35	1.0	3
020	uk820	SAMPLE	199008-021	Soil	131452	11/09/07 05:12	1.0	3
021	uk821	SAMPLE	199008-001	Soil	131452	11/09/07 05:48	1.0	3
022	uk822	SAMPLE	199008-006	Soil	131452	11/09/07 06:24	1.0	3
023	uk823	SAMPLE	199008-023	Soil	131452	11/09/07 07:02	2.0	3

Standards used: 1=S7320 2=S7216 3=S7591

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537440171

Instrument : MSBNA04 Begun : 11/01/07 16:11
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	wk101	CCV	RT CHECK			11/01/07 16:11	1.0	1
002	wk102	CCV	RT CHECK			11/01/07 17:11	1.0	2
003	wk103	TUN	DFTPP/PEM 50NG			11/01/07 17:47	1.0	3
004	wk104	ICAL	0.1/0.5UG/ML			11/01/07 18:18	1.0	2
005	wk105	ICAL	0.2/1.0UG/ML			11/01/07 18:49	1.0	4
006	wk106	ICAL	0.5/2.5UG/ML			11/01/07 19:18	1.0	5
007	wk107	ICAL	1.0/5.0UG/ML			11/01/07 19:47	1.0	6
008	wk108	ICAL	2.0/10.0UG/ML			11/01/07 20:17	1.0	7
009	wk109	ICAL	5.0/25.0UG/ML			11/01/07 20:46	1.0	8
010	wk110	ICAL	10.0/50.0UG/ML			11/01/07 21:16	1.0	1

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

Standards used: 1=S7219 2=S7213 3=S7320 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537441645

Instrument : MSBNA04
Method : EPA 8270C, EPA 8270C-SIM
Begun : 11/02/07 16:45
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	wk201	TUN	DFTPP/PEM 50UG/ML			11/02/07 16:45	1.0	1
002	wk202	ICV	10/1UG/ML			11/02/07 17:17	1.0	2
003	wk203	MDL	190190-001	Water	118674	11/02/07 18:24	1.0	3
004	wk204	MDL	190190-002	Water	118674	11/02/07 18:53	1.0	3
005	wk205	MDL	190190-003	Water	118674	11/02/07 19:22	1.0	3
006	wk206	MDL	190190-004	Water	118674	11/02/07 19:51	1.0	3
007	wk207	MDL	190190-005	Water	118674	11/02/07 20:20	1.0	3
008	wk208	MDL	190190-006	Water	118674	11/02/07 20:49	1.0	3
009	wk209	MDL	190190-007	Water	118674	11/02/07 21:20	1.0	3
010	wk210	MDL	190190-008	Water	118674	11/02/07 21:49	1.0	3
011	wk211	MDL	187655-001	Soil	118707	11/02/07 22:18	1.0	3
012	wk212	MDL	187655-002	Soil	118707	11/02/07 22:47	1.0	3
013	wk213	MDL	187655-003	Soil	118707	11/02/07 23:16	1.0	3
014	wk214	MDL	187655-004	Soil	118707	11/02/07 23:46	1.0	3
015	wk215	MDL	187655-005	Soil	118707	11/03/07 00:16	1.0	3
016	wk216	MDL	187655-006	Soil	118707	11/03/07 00:44	1.0	3
017	wk217	MDL	187655-007	Soil	118707	11/03/07 01:14	1.0	3
018	wk218	MDL	187655-008	Soil	118707	11/03/07 01:42	1.0	3

Standards used: 1=S7320 2=S7592 3=S6891

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537450230

Instrument : MSBNA04 Begun : 11/08/07 15:50
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	wk801	TUN	DFTPP/PEM 50UG/ML			11/08/07 15:50	1.0	1
002	wk802	CCV	1/5UG/ML			11/08/07 16:10	1.0	2
003	wk803	BLANK	QC414296	Soil	131452	11/08/07 16:44	1.0	3
004	wk804	LCS	QC414297	Soil	131452	11/08/07 17:13	1.0	3
005	wk805	BLANK	QC414296	Soil	131452	11/08/07 17:51	1.0	3
006	wk806	TUN	DFTPP/PEM 50UG/ML			11/08/07 18:34	1.0	1
007	wk807	CCV	1/5UG/ML			11/08/07 18:55	1.0	2
008	wk808	BLANK	QC414296	Soil	131452	11/08/07 19:24	1.0	3
009	wk809	LCS	QC414297	Soil	131452	11/08/07 19:54	1.0	3
010	wk810	SAMPLE	199006-001	Soil	131452	11/08/07 20:31	1.0	3
011	wk811	SAMPLE	199030-017	Soil	131452	11/08/07 21:46	5.0	3
012	wk812	SAMPLE	199030-018	Soil	131452	11/08/07 22:15	5.0	3

Standards used: 1=S7320 2=S7216 3=S7591

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537451529

Instrument : MSBNA04 Begun : 11/09/07 13:29
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	wk901	TUN	DFTPP/PEM 50UG/ML			11/09/07 13:29	1.0	1
002	wk902	CCV	2.0/10 UG/ML			11/09/07 14:23	1.0	2
003	wk903	SAMPLE	199008-023	Soil	131452	11/09/07 15:01	1.0	3
004	wk904	MS	QC414298	Soil	131452	11/09/07 15:30	1.0	3
005	wk905	MSD	QC414299	Soil	131452	11/09/07 16:00	1.0	3
006	wk906	CCV	1.0/5 UG/ML			11/09/07 17:21	1.0	4
007	wk907	SAMPLE	199008-023	Soil	131452	11/09/07 18:01	1.0	3
008	wk908	MS	QC414298	Soil	131452	11/09/07 18:30	1.0	3
009	wk909	MSD	QC414299	Soil	131452	11/09/07 18:58	1.0	3

Standards used: 1=S7320 2=S7217 3=S7591 4=S7216

REPORTING SUMMARY FOR 198903 MSSIM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FLH	PHAN	AANH	FLT	PYA	BZHAR	CHBA	BZBFY	BZKF	BZAP	IP1	DBAH	BZHG	NO2B	PHEN	PHEN2
198903-001	MSBNA02	11/03/07 04:35	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198903-002	MSBNA02	11/03/07 05:11	3.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198903-003	MSBNA02	11/03/07 05:48	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198903-006	MSBNA02	11/03/07 06:25	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198903-007	MSBNA02	11/08/07 23:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413563	MSBNA02	11/03/07 02:11	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413564	MSBNA02	11/03/07 02:46	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413567	MSBNA02	11/05/07 13:35	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC413568	MSBNA02	11/05/07 14:13	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414296	MSBNA04	11/08/07 16:44	1.0																				
QC414296	MSBNA04	11/08/07 17:51	1.0																				
QC414296	MSBNA04	11/08/07 19:24	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414297	MSBNA04	11/08/07 17:13	1.0																				
QC414297	MSBNA04	11/08/07 19:54	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414298	MSBNA02	11/09/07 03:57	1.0																				
QC414298	MSBNA04	11/09/07 15:30	1.0																				
QC414298	MSBNA04	11/09/07 18:30	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414299	MSBNA02	11/09/07 04:35	1.0																				
QC414299	MSBNA04	11/09/07 16:00	1.0																				
QC414299	MSBNA04	11/09/07 18:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SAMPLE PREPARATION SUMMARY

Batch # : 131279
Started By : MJD
Method : 3550B
Spike #1 ID : S7474
Prep Date : 02-NOV-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7358
Analysis : 8270-SIM
Finished By : KR
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198743-007		Soil	30.03	1	1	0.0333		1				8270-SIM	
198743-017		Soil	30.28	1	1	0.03303		1				8270-SIM	MSS
198743-019		Soil	30.35	1	1	0.03295		1				8270-SIM	
198743-020		Soil	30.05	1	1	0.03328		1				8270-SIM	
198743-021		Soil	30.09	1	1	0.03323		1				8270-SIM	
198743-022		Soil	30.38	1	1	0.03292		1				8270-SIM	
198743-023		Soil	30.01	1	1	0.03332		1				8270-SIM	
198743-024		Soil	30.22	1	1	0.03309		1				8270-SIM	
198743-025		Soil	30.22	1	1	0.03309		1				8270-SIM	
198743-026		Soil	30.39	1	1	0.03291		1				8270-SIM	
198880-001		Soil	30.01	1	1	0.03332		1				8270-SIM	
198880-002		Soil	30.08	1	1	0.03324		1				8270-SIM	
198903-001		Soil	30.26	1	1	0.03305		1				8270-SIM	MSS
198903-002		Soil	30.2	1	1	0.03311		1				8270-SIM	
198903-003		Soil	30.22	1	1	0.03309		1				8270-SIM	
198903-006		Soil	30.03	1	1	0.0333		1				8270-SIM	
198910-001		Soil	30.07	1	1	0.03326		1				8270-SIM	
QC413563	BLANK	Soil	30.28	1	1	0.03303		1				8270-SIM	
QC413564	LCS	Soil	30.08	1	1	0.03324		1	1			8270-SIM	
QC413565	MS	Soil	30.06	1	1	0.03327		1	1			8270-SIM	
QC413566	MSD	Soil	30.02	1	1	0.03331		1	1			8270-SIM	
QC413567	MS	Soil	30.09	1	1	0.03323		1	1			8270-SIM	
QC413568	MSD	Soil	30.13	1	1	0.03319		1	1			8270-SIM	

AD 11/05/07 : Weights and volumes reviewed.

AD 11/05/07 : MSS 198743-017 will be analyzed at >/= 10x. MS/MSD QC413565/6 would be D.O.

Analyst: AD Date: 11/05/07 Reviewer: JGM Date: 11/05/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 96 **BK 2560**

LIMS Batch No: 131279
LIMS Analysis 8270-SIM
Date Extracted: 11/2/07

Extraction Method:
☒ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198743-007A	30.03	1.0		
	017	30.28			MSS
	019	30.35			
	020	30.05			
5	021	30.09			
	022	30.38			
	023	30.01			
	024	30.22			
	025	30.22			
10	026	30.39			
	198880-001G	30.01			
	002A	30.08			
	198903-001N	30.26			MSS
	002G	30.20			
15	003	30.22			
	006	30.03			
	198910-001A	30.07			
	MB QC413563	30.28			
	LCS 4	30.08			
20	MS 5	30.06			198743-017
	MSD 6	30.02			↓
	MS 7	30.09			198903-001
	MSD 8	30.13	↓		↓
			KR 11/2/07		

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM47158737	MJD 11/2/07
1.0 mL of surrogate solution was added to all samples	57474B	
1.0 mL of matrix spiking solution was added to all spikes	57958B	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM47098	
Acetone	EM 47154	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	11/2/07 KR
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47093734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓	

11/2/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/2/07
Reviewed by / Date

Sample ID	Weight(g)	Analysis	Batch #	Comments
MSD	30.88	8270-SIM		198767-005K
			RML 10/29/07	
LCS	30.25	8081		EM47158737
MS	30.21			198743-017A
MSD	30.10			
198743-001A	30.26	8270-SIM	EMC 10/29/07	
-002	30.05			
-003	30.32			
-004	30.48			
-005	30.11			
-006	30.10			
-007	30.06			
-008	30.03			
-009	30.04			
-010	30.04			
-011	30.15			
-012	30.34			
-013	30.29			
-014	30.14			
-015	30.26			
-016	30.11			
-017C	30.28		131279	MSS
-018A	30.45			
-019	30.35		131279	
-020	30.05			
-021	30.09			
-022	30.38			
-023	30.01			
-024	30.22			
-025	30.22			
-026	30.39			
MB	30.20			EM47158737
LCS	30.02			
MS	30.06		131279	198743-017C
MSD	30.02			
			EMC 10/29/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page 111

Sample ID			Weight(g)	Analysis	Batch #	Comments
198743-013		A	30.32	8270-SIM		
	-014		30.22			
	-015		30.03			
	-016		30.08			
	-018		30.02			
				KML 11/1/07		
198790-001		A	30.04	PCB		MSS (oily, sandy)
	-002		30.34			
	-003		30.01			
	-007		30.41			
MB			30.10			EM47158737
LCS			30.29			↓
MS			30.03			198790-002A
MSD			30.19			↓
				KML 11/1/07		
198790-001		A	30.13	8270-SIM		
	-002		30.14			MSS (oily, sandy)
	-003		30.18			
	-007		30.20			
MB			30.02			EM47158737
LCS			30.12			↓
MS			30.06			198790-002A
MSD			30.22			↓
				KML 11/1/07		
198903-001		N	30.26	8270 SIM	312794	MSS (DARK, SANDY)
	-002	G	30.20	8270 SIM		
	-003		30.22			
	-006		30.03			
MB			30.28			EM47158737
LCS			30.08			↓
MS			30.09			198903-001N
MSD			30.13			↓
				ECB 11/2/07		

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588 113

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
198880-001 G	30.01	Sim	13279	
↓ -002 A	30.08	↓	↓	
			ECB 11/2/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
198903-001 N	50.29	TEHM		MSS
-002 G	50.26			
-003 ↓	50.28			
-006 ↓	50.34			
MB	50.27			EM 47,50 787
LCS	50.31			↓
MS	50.03			198903-001 N
MSD	50.39			↓
			KML 11/2/07	
198910-001A	30.07	8270 SIM	131279	
			ECB 11/2/07	
198743-007A	30.03	8270 SIM	131279	
			KA 11/2/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

00328

SAMPLE PREPARATION SUMMARY

Batch # : 131452
Started By : SFH
Method : 3550B
Spike #1 ID : S7474

Prep Date : 08-NOV-2007

Spike #2 ID : S7566

Analysis : SIM
Finished By : SFH
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198903-007		Soil	30.1	1	1	0.03322		1				8270-SIM	
199006-001		Soil	30.25	1	1	0.03306		1				14DIOXANE	
199008-001		Soil	30.15	1	1	0.03317		1				8270-SIM	
199008-006		Soil	30	1	1	0.03333		1				8270-SIM	
199008-009		Soil	30	1	1	0.03333		1				8270-SIM	
199008-010		Soil	30.01	1	1	0.03332		1				8270-SIM	
199008-014		Soil	30.19	1	1	0.03312		1				8270-SIM	
199008-017		Soil	30.08	1	1	0.03324		1				8270-SIM	
199008-021		Soil	30.12	1	1	0.0332		1				8270-SIM	
199008-023		Soil	30.07	1	1	0.03326		1				8270-SIM	
199021-003		Soil	30.09	1	1	0.03323		1				8270-SIM	
199025-003		Soil	30.1	1	1	0.03322		1				8270-SIM	
199025-006		Soil	30.16	1	1	0.03316		1				8270-SIM	
199025-008		Soil	30.26	1	1	0.03305		1				8270-SIM	
199025-012		Soil	30.16	1	1	0.03316		1				8270-SIM	
199030-017		Soil	30.09	1	1	0.03323		1				8270-SIM	
199030-018		Soil	30.2	1	1	0.03311		1				8270-SIM	
199042-003		Soil	29.81	1	1	0.03355		1				(rebatched)	MSS, silt in final sample
199042-004		Soil	29.97	1	1	0.03337		1				8270-SIM	
199042-005		Soil	30.33	1	1	0.03297		1				8270-SIM	
QC414296	BLANK	Soil	30.04	1	1	0.03329		1					
QC414297	LCS	Soil	30.1	1	1	0.03322		1	1				
QC414298	MS	Soil	30.11	1	1	0.03321		1	1				silt in final sample
QC414299	MSD	Soil	29.76	1	1	0.0336		1	1				silt in final sample

LLH 11/09/07 : reviewed paperwork

AD 11/09/07 : Reviewed paperwork

AD 11/12/07 : OK to use for MSS results to report MS/MSD per TKM.

Analyst: LLH Date: 11/12/07 Reviewer: AD Date: 11/12/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 1 **BK 2614**

LIMS Batch No: 131452 Extraction Method:
LIMS Analysis: 8270-SIM / 1,4-Dioxane ☑ EPA 3550b Sonication
Date Extracted: 11/8/07 ☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198903-007 G	30.10	1.0		
	199006-001 A	30.25			
	199008-001 A	30.15			
	-006	30.00			
5	-009	30.00			
	-010	30.01			
	-014	30.19			
	-017	30.08			
	-021	30.12			
10	-023	30.07			
	199021-003 A	30.09			
	199025-003 A	30.10			
	-006	30.16			
	-008	30.26			
15	-012	30.16			
	199030-017 A	30.09			
	-018 SFH 11/8	30.20			
	199042-003 ~~A~~ B	29.81			MS, silt in final sample
	-004 A	29.97			
20	-005 A	30.33			
	MB QC414296	30.04			
	LCS 7	30.10			
	MS 8	30.11			silt in final sample
	MSD 9	29.76			silt in final sample
					SFH 11/6/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM47158737	SFH 11/8/07
1.0 mL of surrogate solution was added to all samples	57474	
1.0 mL of matrix spiking solution was added to all spikes	57566C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM47158	
Acetone	EM47156	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47073734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓	

11/8/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/8/07
Reviewed by / Date

Project SOIL ALIQUOT BK 2588

Continued from Page —

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
198986-040A	30.29	8081		MSS
MB	30.01	↓		EM47158737
LCS	30.35			↓
MS	30.20			198986-040A
MSD	30.01	↓		↓
				SFH 11/7/07
199006-001A	50.10	TEH		
				ECB 11/7/07
199006-001A	30.25	1,4 DIOXANE	131452	
				ECB 11/7/07
198903-007G	50.19	TEHM		
				ECB 11/7/07
198903-007G	30.10	8270 SIM	131452 ~~131501C~~ HR 11/8/07	
				ECB 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL ALIQUOT BK 2588 125

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH#	COMMENTS
199009-001A	50.07	TEHM		MS5
-002	50.31			
-003	50.07			
-004	50.00			
-005	50.26			
-006	50.26			
-007	50.03			
-008	50.04			
-009	50.03			
-010	50.00			
-011	50.15			
-012	50.24			
-013	50.24			
MB	50.29			EM47158737
LCS	50.10			↓
MS	50.02			199009-001A
MSD	50.11			↓
				ECB 11/7/07
199025-003A	30.10	SIM	KR 11/8/07 ~~131547~~ 131952	
-006	30.16			
-008	30.26			
-012	30.16			
-013	30.00			
-015	30.03			
-016	30.00			
-019	30.00			
				ECB 11/7/07

Continued on Page

Read and Understood By

Signed Date

Project SOIL Aliquot

BK 2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199008-001 A	30.15	SIM	KR 11/8/07 ~~131542~~ 131452	
-006	30.00			
-009	30.00			
-010	30.01			
-014	30.19			
-017	30.08			
-021	30.12			
-023	30.07			
				ECB 11/7/07
198959-003 A	30.21	SIM		
-005	30.22			
-008	30.10			
-011	30.25			
-014	30.19			
-017	30.15			
-019	30.31			
-022	30.25			
-025	30.13			
-028	30.16			
-031	30.13			
-033	30.06			
				ECB 11/7/07
199030-017 A	50.05	TEHM		
-018	50.14			
				ECB 11/7/07
199030-017 A	30.09	SIM	131542	
-018	30.20			
				ECB 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL Aliquot Bk 2588 129

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199021-003A	30.09	8270-SIM	VR 11/8/07 A31542	161452
199042-003B	29.81			
4A	29.97			
5A	30.33			
MB	30.04			EMC7158737
LCS	30.10			↓
MS	30.11			199042-003
MSD	29.76			↓
				JJB 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

METALS DATA

WATER

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198903	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio-Excavation 3
Field ID:	1065EX360RB361	Diln Fac:	1.000
Lab ID:	198903-004	Sampled:	11/01/07
Matrix:	Water	Received:	11/01/07
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	0.96	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	1.4	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Barium	0.46 J	5.0	0.32	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	0.12	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	0.36	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Chromium	ND	5.0	0.33	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	0.31	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Copper	ND	5.0	1.6	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Lead	ND	3.4	1.1	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Mercury	ND	0.20	0.045	131249	11/02/07	11/02/07	METHOD	EPA 7470A
Molybdenum	ND	5.0	1.4	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Nickel	0.84 J	5.0	0.65	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Selenium	ND	10	2.0	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Silver	ND	5.0	0.75	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Thallium	ND	10	1.1	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	0.61	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B
Zinc	ND	20	3.1	131350	11/06/07	11/06/07	EPA 3010A	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	131249
Lab ID:	QC413454	Prepared:	11/02/07
Matrix:	Water	Analyzed:	11/02/07
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.045

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413857	Batch#:	131350
Matrix:	Water	Prepared:	11/06/07
Units:	ug/L	Analyzed:	11/06/07

Analyte	Result	RL	MDL
Antimony	ND	10	0.96
Arsenic	ND	5.0	1.4
Barium	ND	5.0	0.32
Beryllium	ND	2.0	0.12
Cadmium	ND	5.0	0.36
Chromium	ND	5.0	0.33
Cobalt	ND	5.0	0.31
Copper	ND	5.0	1.6
Lead	ND	3.4	1.1
Molybdenum	ND	5.0	1.4
Nickel	ND	5.0	0.65
Selenium	ND	10	2.0
Silver	ND	5.0	0.75
Thallium	ND	10	1.1
Vanadium	ND	5.0	0.61
Zinc	ND	20	3.1

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	131249
Matrix:	Water	Prepared:	11/02/07
Units:	ug/L	Analyzed:	11/02/07
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC413455	5.000	4.920	98	80-120		
BSD	QC413456	5.000	5.000	100	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	131350
Units:	ug/L	Prepared:	11/06/07
Diln Fac:	1.000	Analyzed:	11/06/07

Type: BS Lab ID: QC413858

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	497.1	99	80-120
Arsenic	100.0	109.6	110	80-120
Barium	2,000	2,019	101	80-120
Beryllium	50.00	54.37	109	80-120
Cadmium	50.00	52.81	106	80-120
Chromium	200.0	202.6	101	80-120
Cobalt	500.0	487.8	98	80-120
Copper	250.0	250.5	100	80-120
Lead	100.0	97.71	98	80-120
Molybdenum	400.0	402.5	101	80-120
Nickel	500.0	503.7	101	80-120
Selenium	100.0	105.3	105	80-120
Silver	50.00	48.79	98	80-120
Thallium	100.0	101.4	101	80-120
Vanadium	500.0	508.4	102	80-120
Zinc	500.0	513.2	103	80-120

Type: BSD Lab ID: QC413859

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	500.0	100	80-120	1	20
Arsenic	100.0	108.5	109	80-120	1	20
Barium	2,000	2,021	101	80-120	0	20
Beryllium	50.00	52.84	106	80-120	3	20
Cadmium	50.00	51.51	103	80-120	2	20
Chromium	200.0	196.7	98	80-120	3	20
Cobalt	500.0	478.0	96	80-120	2	20
Copper	250.0	245.0	98	80-120	2	20
Lead	100.0	97.44	97	80-120	0	20
Molybdenum	400.0	405.1	101	80-120	1	20
Nickel	500.0	490.4	98	80-120	3	20
Selenium	100.0	104.1	104	80-120	1	20
Silver	50.00	47.57	95	80-120	3	20
Thallium	100.0	101.1	101	80-120	0	20
Vanadium	500.0	495.2	99	80-120	3	20
Zinc	500.0	501.6	100	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	131249
Field ID:	ZZZZZZZZZZ	Sampled:	10/31/07
MSS Lab ID:	198885-005	Received:	11/01/07
Matrix:	Water	Prepared:	11/02/07
Units:	ug/L	Analyzed:	11/02/07
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC413458	4.860	5.000	9.370	90	80-120		
MSD	QC413459		5.000	9.610	95	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	131350
MSS Lab ID:	198926-001	Sampled:	11/01/07
Matrix:	Water	Received:	11/02/07
Units:	ug/L	Prepared:	11/06/07
Diln Fac:	1.000	Analyzed:	11/06/07

Type: MS Lab ID: QC413860

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.9637	500.0	507.7	102	80-120
Arsenic	8.754	100.0	120.4	112	80-120
Barium	89.47	2,000	2,104	101	80-120
Beryllium	0.2008	50.00	54.38	108	80-120
Cadmium	<0.3555	50.00	51.64	103	80-120
Chromium	1.463	200.0	196.3	97	80-120
Cobalt	2.986	500.0	475.0	94	80-120
Copper	3.782	250.0	250.4	99	80-120
Lead	<1.150	100.0	93.80	94	80-120
Molybdenum	8.202	400.0	411.7	101	80-120
Nickel	21.00	500.0	492.3	94	80-120
Selenium	3.081	100.0	104.4	101	80-120
Silver	<0.7500	50.00	47.68	95	80-120
Thallium	<1.131	100.0	96.76	97	80-120
Vanadium	1.487	500.0	498.9	99	80-120
Zinc	139.5	500.0	630.1	98	80-120

Type: MSD Lab ID: QC413861

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	504.6	101	80-120	1	20
Arsenic	100.0	120.8	112	80-120	0	20
Barium	2,000	2,095	100	80-120	0	20
Beryllium	50.00	54.32	108	80-120	0	20
Cadmium	50.00	51.44	103	80-120	0	20
Chromium	200.0	195.9	97	80-120	0	20
Cobalt	500.0	475.5	95	80-120	0	20
Copper	250.0	250.3	99	80-120	0	20
Lead	100.0	92.63	93	80-120	1	20
Molybdenum	400.0	409.0	100	80-120	1	20
Nickel	500.0	492.1	94	80-120	0	20
Selenium	100.0	106.0	103	80-120	2	20
Silver	50.00	47.05	94	80-120	1	20
Thallium	100.0	96.16	96	80-120	1	20
Vanadium	500.0	498.3	99	80-120	0	20
Zinc	500.0	642.5	101	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131249
MSS Lab ID:	198885-005	Sampled:	10/31/07
Lab ID:	QC413457	Received:	11/01/07
Matrix:	Water	Analyzed:	11/02/07

MSS Result	MSS RL	Result	RL	% Diff	Lim
4.860	0.2000	4.415	1.000	9	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131350
MSS Lab ID:	198926-001	Sampled:	11/01/07
Lab ID:	QC413862	Received:	11/02/07
Matrix:	Water	Analyzed:	11/06/07
Units:	ug/L		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	ND	10.00	ND	25.00	NC	10
Arsenic	8.754	5.000	7.757 J	25.00	NC	10
Barium	89.47	5.000	90.31	25.00	1	10
Beryllium	0.2008	2.000	ND	10.00	NC	10
Cadmium	ND	5.000	ND	25.00	NC	10
Chromium	1.463	5.000	1.859 J	25.00	NC	10
Cobalt	2.986	5.000	3.608 J	25.00	NC	10
Copper	3.782	5.000	ND	25.00	NC	10
Lead	ND	3.449	ND	17.24	NC	10
Molybdenum	8.202	5.000	10.25 J	25.00	NC	10
Nickel	21.00	5.000	23.16 J	25.00	NC	10
Selenium	3.081	10.00	ND	29.79	NC	10
Silver	ND	5.000	ND	25.00	NC	10
Thallium	ND	10.00	ND	25.00	NC	10
Vanadium	1.487	5.000	ND	25.00	NC	10
Zinc	139.5	20.00	136.2	100.0	NC	10

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum : 87447043083
File : 110607r
IDF : 1.0
Lab ID : 198926-001
Matrix : Water
Batch : 131350
Time : 06-NOV-2007 17:26
Cal : 87447043001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum : 87447043087
File : 110607r
IDF : 1.0
Lab ID : QC413863
Matrix : Water
Batch : 131350
Time : 06-NOV-2007 17:39
Cal : 87447043001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S6920 (100X), S6921 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	72.43	R	2000	2006	R	97	75-125	u
Antimony	ND	A	500.0	477.9	A	96	75-125	u
Arsenic	8.754	A	100.0	118.7	A	110	75-125	u
Barium	89.47	A	2000	2023	A	97	75-125	u
Beryllium	0.2008	A	50.00	52.67	A	105	75-125	u
Cadmium	ND	A	50.00	50.30	A	101	75-125	u
Calcium	21640	R	20000	41120	R	97	75-125	u
Chromium	1.463	A	200.0	192.2	A	95	75-125	u
Cobalt	2.986	A	500.0	462.8	A	92	75-125	u
Copper	3.782	A	250.0	243.5	A	96	75-125	u
Iron	852.6	R	1000	1870	R	102	75-125	u
Lead	ND	A	100.0	90.78	A	91	75-125	u **y**
Magnesium	14280	R	20000	34180	R	100	75-125	u
Manganese	540.6	A	50.00	568.0	A	55	75-125	: u
Molybdenum	8.202	A	400.0	397.7	A	97	75-125	u
Nickel	21.00	A	500.0	481.3	A	92	75-125	u
Potassium	2696	R	10000	12460	R	98	75-125	u
Selenium	3.081	A	100.0	102.0	A	99	75-125	u
Silver	ND	A	50.00	45.98	A	92	75-125	u
Sodium	90090	R	20000	109700 >LR	R	98	75-125	: >LR u
Thallium	ND	A	100.0	93.49	A	93	75-125	u
Vanadium	1.487	A	500.0	484.7	A	97	75-125	u
Zinc	139.5	A	500.0	618.6	A	96	75-125	u
Boron	118.0	A	1000	1143	A	102	75-125	u
Tin	ND	A	1000	972.9	A	97	75-125	u
Titanium	2.224	A	1000	997.1	A	99	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2972968	2876910	-3.23

:=recovery not meaningful >LR=overrange u=use y=RL raised

87447043087

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87447043001
Units : ug/L

Date : 06-NOV-2007 10:43
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110607r	87447043002	CRIM08	06-NOV-2007 10:47	S7555
L2	110607r	87447043003	CS100	06-NOV-2007 10:51	S7382
L3	110607r	87447043004	CS1K	06-NOV-2007 10:54	S7381
L4	110607r	87447043005	CS10K	06-NOV-2007 10:57	S7383
L5	110607r	87447043006	CS100K	06-NOV-2007 11:00	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	26.515	26.996	27.063	27.768		LOR0	0.00000	0.03602		27.086	1.000	0.995	
Arsenic	A	17.409	17.282	17.543	17.426		LOR0	0.00000	0.05738		17.415	1.000	0.995	
Barium	A	453.72	423.74	422.90	412.00		LOR0	0.00000	0.00243		428.09	1.000	0.995	
Beryllium	A	3029.4	2944.4	2968.0			LOR0	0.00000	3.37E-4		2980.6	1.000	0.995	
Boron	A	150.27		149.97	156.27		LOR0	0.00000	0.00640		152.17	1.000	0.995	
Cadmium	A	206.24	204.28	207.22	203.97		LOR0	0.00000	0.00490		205.43	1.000	0.995	
Chromium	A	66.877	64.372	64.390	64.525		LOR0	0.00000	0.01550		65.041	1.000	0.995	
Cobalt	A	110.47	109.45	113.97	113.67		LOR0	0.00000	0.00880		111.89	1.000	0.995	
Copper	A	442.79	384.76	393.70	395.20		LOR0	0.00000	0.00253		404.11	1.000	0.995	
Lead	A	36.394	46.131	45.993	44.926		LOR0	0.00000	0.02225		43.361	1.000	0.995	
Manganese	A	1369.9	1302.1	1296.1	1238.7		LOR0	0.00000	8.07E-4		1301.7	1.000	0.995	
Molybdenum	A	33.647	34.447	34.228	34.612		LOR0	0.00000	0.02890		34.233	1.000	0.995	
Nickel	A	38.413	35.963	36.977	37.261		LOR0	0.00000	0.02684		37.154	1.000	0.995	
Selenium	A	28.037	26.406	26.590	27.716		LOR0	0.00000	0.03609		27.187	1.000	0.995	
Silver	A	395.94	445.23	453.88	459.92		LOR0	0.00000	0.00218		438.74	1.000	0.995	
Thallium	A	15.396	15.601	15.641	15.267		LOR0	0.00000	0.06549		15.476	1.000	0.995	
Tin	A	21.043	20.510	20.729	22.257		LOR0	0.00000	0.04496		21.135	1.000	0.995	
Titanium	A	1160.7	1169.8	1171.3	1140.7		LOR0	0.00000	8.76E-4		1160.6	1.000	0.995	
Vanadium	A	101.44	102.78	103.04	105.84		LOR0	0.00000	0.00945		103.27	1.000	0.995	
Zinc	A	144.16	81.433	76.451	77.433		LOR0	0.00000	0.01292		94.870	1.000	0.995	
Aluminum	R	1.5490		1.4092	1.4255	1.3438	LOR0	0.00000	0.74370		1.4319	1.000	0.995	
Calcium	R	19.167		15.910	15.466	14.807	LOR0	0.00000	0.06750		16.337	1.000	0.995	
Iron	R	13.694		12.284	12.333	11.979	LOR0	0.00000	0.08345		12.573	1.000	0.995	
Magnesium	R	2.2523		2.1347	2.0711	2.0053	LOR0	0.00000	0.49851		2.1159	1.000	0.995	
Potassium	R	4.6842		4.9168	4.8602	4.8485	LOR0	0.00000	0.20624		4.8274	1.000	0.995	
Sodium	R	11.423		11.487	11.182	10.630	LOR0	0.00000	0.09403		11.181	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-4	100.0	-3	1000	-3	10000	0		
Arsenic	A	5.000	0	100.0	-1	1000	1	10000	0		
Barium	A	5.000	10	100.0	3	1000	3	10000	0		
Beryllium	A	2.000	2	100.0	-1	1000	0				
Boron	A	100.0	-4			1000	-4	10000	0		
Cadmium	A	5.000	1	100.0	0	1000	2	10000	0		
Chromium	A	5.000	4	100.0	0	1000	0	10000	0		
Cobalt	A	5.000	-3	100.0	-4	1000	0	10000	0		
Copper	A	5.000	12	100.0	-3	1000	0	10000	0		
Lead	A	3.000	-19	100.0	3	1000	2	10000	0		
Manganese	A	5.000	11	100.0	5	1000	5	10000	0		
Molybdenum	A	5.000	-3	100.0	0	1000	-1	10000	0		
Nickel	A	5.000	3	100.0	-3	1000	-1	10000	0		
Selenium	A	5.000	1	100.0	-5	1000	-4	10000	0		
Silver	A	5.000	-14	100.0	-3	1000	-1	2000	0		
Thallium	A	5.000	1	100.0	2	1000	2	10000	0		
Tin	A	40.00	-5	100.0	-8	1000	-7	10000	0		
Titanium	A	10.00	2	100.0	3	1000	3	10000	0		
Vanadium	A	5.000	-4	100.0	-3	1000	-3	10000	0		
Zinc	A	20.00	86	100.0	5	1000	-1	10000	0		
Aluminum	R	100.0	15			1000	5	10000	6	100000	0
Calcium	R	200.0	29			1000	7	10000	4	100000	0
Iron	R	100.0	14			1000	3	10000	3	100000	0
Magnesium	R	200.0	12			1000	6	10000	3	100000	0
Potassium	R	500.0	-3			1000	1	10000	0	100000	0
Sodium	R	500.0	7			1000	8	10000	5	100000	0

SGS TEK

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Cr 267.716†	7.8	0.1 ug/L	0.03	0.1 ug/L	0.03	28.74%
Cu 324.752†	345.1	0.9 ug/L	0.28	0.9 ug/L	0.28	32.28%
Fe 238.204 R†	14.5	1.2 ug/L	0.08	1.2 ug/L	0.08	6.72%
K 766.490 R†	-381.0	-78.6 ug/L	61.46	-78.6 ug/L	61.46	78.21%
Mg 279.077 R†	6.4	3.2 ug/L	2.93	3.2 ug/L	2.93	91.25%
Mn 257.610†	143.6	0.1 ug/L	0.01	0.1 ug/L	0.01	12.90%
Mo 202.031†	6.9	0.2 ug/L	0.20	0.2 ug/L	0.20	101.92%
Na 589.592 R†	11.1	1.0 ug/L	1.99	1.0 ug/L	1.99	190.59%
Ni 231.604†	9.7	0.3 ug/L	0.40	0.3 ug/L	0.40	155.28%
Pb 220.353†	-7.0	-0.2 ug/L	1.15	-0.2 ug/L	1.15	737.02%
Sb 206.836†	5.6	0.2 ug/L	0.51	0.2 ug/L	0.51	251.24%
Se 196.026†	22.4	0.8 ug/L	1.00	0.8 ug/L	1.00	123.98%
Ti 334.940 R†	223.9	0.2 ug/L	0.06	0.2 ug/L	0.06	32.72%
Tl 190.801†	2.7	0.2 ug/L	0.11	0.2 ug/L	0.11	63.18%
V 292.402†	-4.5	0.0 ug/L	0.08	0.0 ug/L	0.08	184.79%
Zn 206.200†	-17.0	-0.2 ug/L	0.04	-0.2 ug/L	0.04	19.23%
Sn 189.927†	7.1	0.3 ug/L	0.13	0.3 ug/L	0.13	41.02%

Sequence No.: 13
Sample ID: 198161-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 11/6/2007 11:50:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 198161-001

Analyte	Back Pressure	Flow
All	136.0 kPa	0.55 L/min

Mean Data: 198161-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2990416.3	100.6	%	1.00				1.00%
Y	253204.1	103.4	%	4.56				4.41%
Ag 328.068†	-90.4	-0.2	ug/L	0.15	-0.2	ug/L	0.15	75.62%
Al 308.215 R†	10.6	7.9	ug/L	3.70	7.9	ug/L	3.70	46.76%
As 188.979†	-44.5	-2.6	ug/L	1.47	-2.6	ug/L	1.47	57.64%
B 249.677†	1050.2	6.7	ug/L	0.27	6.7	ug/L	0.27	4.08%
Ba 233.527†	8.3	0.0	ug/L	0.01	0.0	ug/L	0.01	72.91%
Be 313.107†	48.8	0.0	ug/L	0.03	0.0	ug/L	0.03	189.88%
Ca 315.887 R†	70.9	4.8	ug/L	0.79	4.8	ug/L	0.79	16.59%
Cd 214.440†	9.5	0.0	ug/L	0.01	0.0	ug/L	0.01	14.82%
Co 228.616†	-3.3	0.0	ug/L	0.16	0.0	ug/L	0.16	562.69%
Cr 267.716†	1.6	0.0	ug/L	0.04	0.0	ug/L	0.04	149.63%
Cu 324.752†	225.2	0.6	ug/L	0.26	0.6	ug/L	0.26	46.44%
Fe 238.204 R†	12.0	1.0	ug/L	0.32	1.0	ug/L	0.32	32.31%
K 766.490 R†	-257.2	-53.0	ug/L	24.83	-53.0	ug/L	24.83	46.82%
Mg 279.077 R†	7.1	3.5	ug/L	3.09	3.5	ug/L	3.09	87.65%
Mn 257.610†	147.1	0.1	ug/L	0.02	0.1	ug/L	0.02	15.28%
Mo 202.031†	3.3	0.1	ug/L	0.27	0.1	ug/L	0.27	286.86%
Na 589.592 R†	-60.0	-5.6	ug/L	18.69	-5.6	ug/L	18.69	331.49%
Ni 231.604†	6.7	0.2	ug/L	0.22	0.2	ug/L	0.22	121.62%
Pb 220.353†	-33.6	-0.7	ug/L	0.81	-0.7	ug/L	0.81	108.41%
Sb 206.836†	9.3	0.3	ug/L	1.00	0.3	ug/L	1.00	298.86%
Se 196.026†	-14.8	-0.5	ug/L	0.09	-0.5	ug/L	0.09	17.18%
Ti 334.940 R†	145.4	0.1	ug/L	0.05	0.1	ug/L	0.05	42.73%
Tl 190.801†	-4.5	-0.3	ug/L	0.09	-0.3	ug/L	0.09	29.73%
V 292.402†	2.1	0.0	ug/L	0.08	0.0	ug/L	0.08	396.05%
Zn 206.200†	-13.8	-0.2	ug/L	0.04	-0.2	ug/L	0.04	19.65%
Sn 189.927†	5.1	0.2	ug/L	0.21	0.2	ug/L	0.21	91.33%

Sequence No.: 14
Sample ID: 198161-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 11/6/2007 11:54:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 198161-001

Analyte	Back Pressure	Flow

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/6/2007 10:43:37 AM
Data Type: Reprocessed on 11/6/2007 11:38:17 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1121.1	227.68	20.31%	[0.00]	ug/L
Al 308.215 R	-209.4	6.46	3.08%	[0.00]	ug/L
As 188.979	-29.6	36.31	122.54%	[0.00]	ug/L
B 249.677	364.1	18.48	5.08%	[0.00]	ug/L
Ba 233.527	-97.3	0.49	0.51%	[0.00]	ug/L
Be 313.107	573.7	37.58	6.55%	[0.00]	ug/L
Ca 315.887 R	-126.8	11.19	8.83%	[0.00]	ug/L
Cd 214.440	-24.8	5.48	22.10%	[0.00]	ug/L
Co 228.616	-418.7	10.83	2.59%	[0.00]	ug/L
Cr 267.716	-113.5	6.83	6.02%	[0.00]	ug/L
Cu 324.752	2827.9	32.36	1.14%	[0.00]	ug/L
Fe 238.204 R	83.6	4.43	5.30%	[0.00]	ug/L
K 766.490 R	307.7	263.18	85.52%	[0.00]	ug/L
Mg 279.077 R	13.1	0.84	6.37%	[0.00]	ug/L
Mn 257.610	271.2	9.10	3.36%	[0.00]	ug/L
Mo 202.031	-4.0	7.69	194.51%	[0.00]	ug/L
Na 589.592 R	-3216.6	130.86	4.07%	[0.00]	ug/L
Ni 231.604	-300.5	3.20	1.07%	[0.00]	ug/L
Pb 220.353	7.9	110.31	>999.9%	[0.00]	ug/L
Sb 206.836	69.4	15.05	21.68%	[0.00]	ug/L
Se 196.026	38.3	30.61	79.85%	[0.00]	ug/L
Ti 334.940 R	9.9	42.64	429.54%	[0.00]	ug/L
Tl 190.801	-31.6	10.52	33.35%	[0.00]	ug/L
V 292.402	-167.5	3.75	2.24%	[0.00]	ug/L
Zn 206.200	81.3	3.41	4.19%	[0.00]	ug/L
Sn 189.927	4.8	1.15	23.88%	[0.00]	ug/L

Sequence No.: 2 Autosampler Location: 2
Sample ID: ICAL,CRIM08 Date Collected: 11/6/2007 10:47:31 AM
Analyst: Data Type: Reprocessed on 11/6/2007 11:38:18 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2972968.3	15493.21	0.52%	100.00	%
Y	244920.5	8044.92	3.28%	100.0	%
Ag 328.068†	1979.7	447.88	22.62%	[5.0]	ug/L
Al 308.215 R†	154.9	3.72	2.40%	[100]	ug/L
As 188.979†	87.0	19.64	22.56%	[5.0]	ug/L
B 249.677†	15027.1	28.21	0.19%	[100]	ug/L
Ba 233.527†	2268.6	20.48	0.90%	[5.0]	ug/L
Be 313.107†	6058.8	71.14	1.17%	[2.0]	ug/L
Ca 315.887 R†	3833.3	120.88	3.15%	[200]	ug/L
Cd 214.440†	1031.2	13.48	1.31%	[5.0]	ug/L
Co 228.616†	552.4	4.04	0.73%	[5.0]	ug/L
Cr 267.716†	334.4	4.91	1.47%	[5.0]	ug/L
Cu 324.752†	2213.9	84.97	3.84%	[5.0]	ug/L
Fe 238.204 R†	1369.4	49.64	3.62%	[100]	ug/L
K 766.490 R†	2342.1	126.31	5.39%	[500]	ug/L
Mg 279.077 R†	450.5	8.02	1.78%	[200]	ug/L
Mn 257.610†	6849.6	75.15	1.10%	[5.0]	ug/L
Mo 202.031†	168.2	2.57	1.53%	[5.0]	ug/L
Na 589.592 R†	5711.4	130.41	2.28%	[500]	ug/L
Ni 231.604†	192.1	3.06	1.59%	[5.0]	ug/L
Pb 220.353†	109.2	53.43	48.94%	[3.0]	ug/L
Sb 206.836†	132.6	33.06	24.94%	[5.0]	ug/L
Se 196.026†	140.2	19.85	14.16%	[5.0]	ug/L
Ti 334.940 R†	11607.5	85.25	0.73%	[10]	ug/L
Tl 190.801†	77.0	18.76	24.37%	[5.0]	ug/L
V 292.402†	507.2	9.72	1.92%	[5.0]	ug/L
Zn 206.200†	2883.3	22.48	0.78%	[20]	ug/L
Sn 189.927†	841.7	8.60	1.02%	[40]	ug/L

Sequence No.: 3 Autosampler Location: 3
Sample ID: ICAL,CS100 Date Collected: 11/6/2007 10:51:25 AM
Analyst: Data Type: Reprocessed on 11/6/2007 11:38:19 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3014596.0	28902.02	0.96%	101.4	%
Y	257376.4	3553.31	1.38%	105.1	%
Ag 328.068†	44523.3	270.79	0.61%	[100]	ug/L
As 188.979†	1728.2	2.22	0.13%	[100]	ug/L
Ba 233.527†	42374.4	617.29	1.46%	[100]	ug/L
Be 313.107†	294439.7	5923.24	2.01%	[100]	ug/L
Cd 214.440†	20428.2	256.73	1.26%	[100]	ug/L
Co 228.616†	10945.3	100.71	0.92%	[100]	ug/L
Cr 267.716†	6437.2	91.84	1.43%	[100]	ug/L
Cu 324.752†	38476.0	400.45	1.04%	[100]	ug/L
Mn 257.610†	130211.7	1476.34	1.13%	[100]	ug/L
Mo 202.031†	3444.7	45.73	1.33%	[100]	ug/L
Ni 231.604†	3596.3	33.50	0.93%	[100]	ug/L
Pb 220.353†	4613.1	56.64	1.23%	[100]	ug/L
Sb 206.836†	2699.6	2.58	0.10%	[100]	ug/L
Se 196.026†	2640.6	59.44	2.25%	[100]	ug/L
Ti 334.940 R†	116975.2	1459.88	1.25%	[100]	ug/L
Tl 190.801†	1560.1	46.52	2.98%	[100]	ug/L
V 292.402†	10278.5	81.31	0.79%	[100]	ug/L
Zn 206.200†	8143.3	72.94	0.90%	[100]	ug/L
Sn 189.927†	2051.0	12.67	0.62%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/6/2007 10:54:20 AM
Data Type: Reprocessed on 11/6/2007 11:38:20 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2986421.3	39068.83	1.31%	100.5	%
Y	253757.0	3188.08	1.26%	103.6	%
Ag 328.068†	453881.3	2194.10	0.48%	[1000]	ug/L
Al 308.215 R†	1409.2	58.87	4.18%	[1000]	ug/L
As 188.979†	17543.1	243.42	1.39%	[1000]	ug/L
B 249.677†	149968.1	1590.85	1.06%	[1000]	ug/L
Ba 233.527†	422903.7	2885.39	0.68%	[1000]	ug/L
Be 313.107†	2967993.0	19844.44	0.67%	[1000]	ug/L
Ca 315.887 R†	15909.9	118.77	0.75%	[1000]	ug/L
Cd 214.440†	207221.2	2136.78	1.03%	[1000]	ug/L
Co 228.616†	113966.0	683.65	0.60%	[1000]	ug/L
Cr 267.716†	64390.2	192.00	0.30%	[1000]	ug/L
Cu 324.752†	393704.2	4256.00	1.08%	[1000]	ug/L
Fe 238.204 R†	12283.9	57.75	0.47%	[1000]	ug/L
K 766.490 R†	4916.8	152.42	3.10%	[1000]	ug/L
Mg 279.077 R†	2134.7	29.93	1.40%	[1000]	ug/L
Mn 257.610†	1296124.0	6624.44	0.51%	[1000]	ug/L
Mo 202.031†	34228.5	650.62	1.90%	[1000]	ug/L
Na 589.592 R†	11487.1	200.31	1.74%	[1000]	ug/L
Ni 231.604†	36977.3	297.74	0.81%	[1000]	ug/L
Pb 220.353†	45993.2	585.24	1.27%	[1000]	ug/L
Sb 206.836†	27062.5	472.25	1.75%	[1000]	ug/L
Se 196.026†	26589.6	476.47	1.79%	[1000]	ug/L
Ti 334.940 R†	1171349.9	6903.45	0.59%	[1000]	ug/L
Tl 190.801†	15641.1	278.69	1.78%	[1000]	ug/L
V 292.402†	103039.6	736.98	0.72%	[1000]	ug/L
Zn 206.200†	76451.1	334.27	0.44%	[1000]	ug/L
Sn 189.927†	20729.1	340.39	1.64%	[1000]	ug/L

Sequence No.: 5 Autosampler Location: 5
Sample ID: ICAL,CS10K Date Collected: 11/6/2007 10:57:21 AM
Analyst: Data Type: Reprocessed on 11/6/2007 11:38:20 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	135.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2853567.2	36159.89	1.27%	95.98	%
Y	237575.8	2323.67	0.98%	97.00	%
Ag 328.068†	919837.7	2490.10	0.27%	[2000]	ug/L
Al 308.215 R†	14255.5	54.01	0.38%	[10000]	ug/L
As 188.979†	174261.1	2818.49	1.62%	[10000]	ug/L
B 249.677†	1562663.0	7984.74	0.51%	[10000]	ug/L
Ba 233.527†	4119964.6	70474.14	1.71%	[10000]	ug/L
Ca 315.887 R†	154659.4	909.84	0.59%	[10000]	ug/L
Cd 214.440†	2039720.8	7788.67	0.38%	[10000]	ug/L
Co 228.616†	1136713.9	4789.34	0.42%	[10000]	ug/L
Cr 267.716†	645249.3	1763.03	0.27%	[10000]	ug/L
Cu 324.752†	3952038.5	63896.14	1.62%	[10000]	ug/L
Fe 238.204 R†	123328.7	730.24	0.59%	[10000]	ug/L
K 766.490 R†	48601.7	199.49	0.41%	[10000]	ug/L
Mg 279.077 R†	20711.4	69.18	0.33%	[10000]	ug/L
Mn 257.610†	12386608.6	202450.60	1.63%	[10000]	ug/L
Mo 202.031†	346118.0	2012.64	0.58%	[10000]	ug/L
Na 589.592 R†	111823.9	659.36	0.59%	[10000]	ug/L
Ni 231.604†	372607.5	1536.37	0.41%	[10000]	ug/L
Pb 220.353†	449262.3	6645.05	1.48%	[10000]	ug/L
Sb 206.836†	277684.7	3620.85	1.30%	[10000]	ug/L
Se 196.026†	277162.3	2592.80	0.94%	[10000]	ug/L
Ti 334.940 R†	11406770.0	179537.00	1.57%	[10000]	ug/L
Tl 190.801†	152665.6	1360.55	0.89%	[10000]	ug/L
V 292.402†	1058373.9	2041.07	0.19%	[10000]	ug/L
Zn 206.200†	774329.3	3279.51	0.42%	[10000]	ug/L
Sn 189.927†	222566.0	1065.24	0.48%	[10000]	ug/L

Sequence No.: 6 Autosampler Location: 6
Sample ID: ICAL,CS100K Date Collected: 11/6/2007 11:00:26 AM
Analyst: Data Type: Reprocessed on 11/6/2007 11:38:21 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	135.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2644572.2	29027.40	1.10%	88.95	%
Y	239219.0	2492.95	1.04%	97.67	%
Al 308.215 R†	134381.5	2411.50	1.79%	[100000]	ug/L
Ca 315.887 R†	1480718.8	27804.34	1.88%	[100000]	ug/L
Fe 238.204 R†	1197942.7	22418.07	1.87%	[100000]	ug/L
K 766.490 R†	484849.0	9036.67	1.86%	[100000]	ug/L
Mg 279.077 R†	200530.4	4190.03	2.09%	[100000]	ug/L
Na 589.592 R†	1062981.2	19474.24	1.83%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	458.7	0.00000	0.999985	
Al 308.215 R	4	Lin Thru 0	0.0	1.345	0.00000	0.999982	
As 188.979	4	Lin Thru 0	0.0	17.43	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	156.2	0.00000	0.999992	
Ba 233.527	4	Lin Thru 0	0.0	412.1	0.00000	0.999997	
Be 313.107	3	Lin Thru 0	0.0	2968	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	14.81	0.00000	0.999990	
Cd 214.440	4	Lin Thru 0	0.0	204.0	0.00000	0.999999	
Co 228.616	4	Lin Thru 0	0.0	113.7	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	64.52	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	395.2	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	11.98	0.00000	0.999996	
K 766.490 R	4	Lin Thru 0	0.0	4.849	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	2.006	0.00000	0.999994	
Mn 257.610	4	Lin Thru 0	0.0	1239	0.00000	0.999989	
Mo 202.031	4	Lin Thru 0	0.0	34.61	0.00000	0.999999	
Na 589.592 R	4	Lin Thru 0	0.0	10.64	0.00000	0.999986	
Ni 231.604	4	Lin Thru 0	0.0	37.26	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	44.94	0.00000	0.999997	
Sb 206.836	4	Lin Thru 0	0.0	27.76	0.00000	0.999997	
Se 196.026	4	Lin Thru 0	0.0	27.70	0.00000	0.999992	
Ti 334.940 R	4	Lin Thru 0	0.0	1141	0.00000	0.999996	
Tl 190.801	4	Lin Thru 0	0.0	15.27	0.00000	0.999997	
V 292.402	4	Lin Thru 0	0.0	105.8	0.00000	0.999997	
Zn 206.200	4	Lin Thru 0	0.0	77.42	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	22.24	0.00000	0.999977	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043007 File : 110607r Time : 06-NOV-2007 11:03
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	27.086	27.865	5000	5019	ug/L	0	10	
Arsenic	A	17.415	18.630	5000	5345	ug/L	7	10	
Barium	A	428.09	427.24	5000	5184	ug/L	4	10	
Beryllium	A	2980.6	3097.8	500.0	521.9	ug/L	4	10	
Boron	A	152.17	161.06	5000	5155	ug/L	3	10	
Cadmium	A	205.43	208.05	5000	5099	ug/L	2	10	
Chromium	A	65.041	63.676	5000	4934	ug/L	-1	10	
Cobalt	A	111.89	111.44	5000	4892	ug/L	-2	10	
Copper	A	404.11	391.29	5000	4951	ug/L	-1	10	
Lead	A	43.361	44.779	5000	4982	ug/L	0	10	
Manganese	A	1301.7	1266.0	5000	5108	ug/L	2	10	
Molybdenum	A	34.233	34.711	5000	5015	ug/L	0	10	
Nickel	A	37.154	36.869	5000	4948	ug/L	-1	10	
Selenium	A	27.187	28.138	5000	5078	ug/L	2	10	
Silver	A	438.74	444.94	1000	970.0	ug/L	-3	10	
Thallium	A	15.476	15.284	5000	5005	ug/L	0	10	
Tin	A	21.135	21.793	5000	4899	ug/L	-2	10	
Titanium	A	1160.6	1158.3	5000	5076	ug/L	2	10	
Vanadium	A	103.27	105.81	5000	5000	ug/L	0	10	
Zinc	A	94.870	77.213	5000	4986	ug/L	0	10	
Aluminum	R	1.4319	1.3741	20000	20440	ug/L	2	10	
Calcium	R	16.337	15.451	20000	20860	ug/L	4	10	
Iron	R	12.573	12.454	20000	20790	ug/L	4	10	
Magnesium	R	2.1159	2.1238	20000	21180	ug/L	6	10	
Potassium	R	4.8274	4.8283	20000	19920	ug/L	0	10	
Sodium	R	11.181	10.999	20000	20680	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2805051	-5.65

87447043007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043008 File : 110607r Time : 06-NOV-2007 11:06
Cal : 87447043001 Caldate : 06-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.138]	5.000	0.9637	ug/L	!ib
Arsenic	A	[4.552]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[31.23]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.139]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[1.279]	5.000	1.131	ug/L	!ib
Tin	A	[3.922]	40.00	2.773	ug/L	!ib
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2967353	-0.19

!=warning ib=instrument blank

87447043008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043009 File : 110607r Time : 06-NOV-2007 11:10
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[0.1456]	5.000	ug/L	
Arsenic	A	[-2.469]	5.000	ug/L	
Barium	A	[0.2339]	5.000	ug/L	
Beryllium	A	[0.05008]	2.000	ug/L	
Boron	A	[10.10]	100.0	ug/L	
Cadmium	A	[-2.715]	5.000	ug/L	
Cobalt	A	[-2.893]	5.000	ug/L	
Lead	A	[1.848]	3.000	ug/L	
Molybdenum	A	[-3.063]	5.000	ug/L	
Selenium	A	[4.161]	5.000	ug/L	
Silver	A	[-1.483]	5.000	ug/L	
Thallium	A	[-5.303]	5.000	ug/L	
Tin	A	[-13.31]	40.00	ug/L	
Zinc	A	[1.030]	20.00	ug/L	
Potassium	R	[-54.97]	500.0	ug/L	
Sodium	R	[69.91]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19200	ug/L	96
Copper	A	20000	20590	ug/L	103
Manganese	A	20000	18680	ug/L	93
Nickel	A	20000	17620	ug/L	88
Titanium	A	20000	20100	ug/L	100
Vanadium	A	20000	20020	ug/L	100
Aluminum	R	500000	529900	ug/L	106
Calcium	R	500000	511100	ug/L	102
Iron	R	200000	197200	ug/L	99
Magnesium	R	500000	515300	ug/L	103

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2411152	-18.90

87447043009

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043010 File : 110607r Time : 06-NOV-2007 11:39
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	584.5	ug/L	17	20	
Arsenic	A	500.0	580.8	ug/L	16	20	
Barium	A	500.0	537.2	ug/L	7	20	
Beryllium	A	500.0	546.0	ug/L	9	20	
Cadmium	A	1000	992.4	ug/L	-1	20	
Chromium	A	500.0	507.3	ug/L	1	20	
Cobalt	A	500.0	458.8	ug/L	-8	20	
Copper	A	500.0	513.2	ug/L	3	20	
Lead	A	1000	944.1	ug/L	-6	20	
Manganese	A	500.0	467.9	ug/L	-6	20	
Molybdenum	A	500.0	514.4	ug/L	3	20	
Nickel	A	1000	937.9	ug/L	-6	20	
Selenium	A	500.0	553.5	ug/L	11	20	
Silver	A	1000	1088	ug/L	9	20	
Thallium	A	500.0	453.3	ug/L	-9	20	
Titanium	A	20000	20350	ug/L	2		
Vanadium	A	500.0	535.6	ug/L	7	20	
Zinc	A	1000	1018	ug/L	2	20	
Aluminum	R	500000	520800	ug/L	4		
Calcium	R	500000	499300	ug/L	0		
Iron	R	200000	193600	ug/L	-3		
Magnesium	R	500000	510600	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2410504	-18.92

87447043010

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043018 File : 110607r Time : 06-NOV-2007 12:09
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	586.8	ug/L	17	20	
Arsenic	A	500.0	590.2	ug/L	18	20	
Barium	A	500.0	541.8	ug/L	8	20	
Beryllium	A	500.0	551.1	ug/L	10	20	
Cadmium	A	1000	998.8	ug/L	0	20	
Chromium	A	500.0	503.3	ug/L	1	20	
Cobalt	A	500.0	456.6	ug/L	-9	20	
Copper	A	500.0	516.8	ug/L	3	20	
Lead	A	1000	951.3	ug/L	-5	20	
Manganese	A	500.0	471.9	ug/L	-6	20	
Molybdenum	A	500.0	514.8	ug/L	3	20	
Nickel	A	1000	933.4	ug/L	-7	20	
Selenium	A	500.0	534.9	ug/L	7	20	
Silver	A	1000	1092	ug/L	9	20	
Thallium	A	500.0	454.7	ug/L	-9	20	
Titanium	A	20000	20270	ug/L	1		
Vanadium	A	500.0	538.5	ug/L	8	20	
Zinc	A	1000	1024	ug/L	2	20	
Aluminum	R	500000	509200	ug/L	2		
Calcium	R	500000	490900	ug/L	-2		
Iron	R	200000	190300	ug/L	-5		
Magnesium	R	500000	500900	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2414831	-18.77

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043020 File : 110607r Time : 06-NOV-2007 12:16
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.086	28.173	5000	5074	ug/L	1	10	
Arsenic	A	17.415	18.846	5000	5407	ug/L	8	10	
Barium	A	428.09	427.73	5000	5190	ug/L	4	10	
Beryllium	A	2980.6	3096.0	500.0	521.6	ug/L	4	10	
Boron	A	152.17	160.58	5000	5140	ug/L	3	10	
Cadmium	A	205.43	208.34	5000	5106	ug/L	2	10	
Chromium	A	65.041	63.648	5000	4932	ug/L	-1	10	
Cobalt	A	111.89	111.63	5000	4900	ug/L	-2	10	
Copper	A	404.11	391.61	5000	4955	ug/L	-1	10	
Lead	A	43.361	44.650	5000	4968	ug/L	-1	10	
Manganese	A	1301.7	1266.2	5000	5109	ug/L	2	10	
Molybdenum	A	34.233	34.506	5000	4985	ug/L	0	10	
Nickel	A	37.154	36.994	5000	4965	ug/L	-1	10	
Selenium	A	27.187	28.370	5000	5120	ug/L	2	10	
Silver	A	438.74	445.51	1000	971.3	ug/L	-3	10	
Thallium	A	15.476	15.366	5000	5031	ug/L	1	10	
Tin	A	21.135	22.002	5000	4946	ug/L	-1	10	
Titanium	A	1160.6	1159.2	5000	5080	ug/L	2	10	
Vanadium	A	103.27	105.70	5000	4995	ug/L	0	10	
Zinc	A	94.870	77.182	5000	4984	ug/L	0	10	
Aluminum	R	1.4319	1.3171	20000	19590	ug/L	-2	10	
Calcium	R	16.337	14.962	20000	20200	ug/L	1	10	
Iron	R	12.573	12.047	20000	20110	ug/L	1	10	
Magnesium	R	2.1159	2.0680	20000	20620	ug/L	3	10	
Potassium	R	4.8274	4.6446	20000	19160	ug/L	-4	10	
Sodium	R	11.181	10.527	20000	19800	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2843717	-4.35

87447043020

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043022 File : 110607r Time : 06-NOV-2007 12:23
Cal : 87447043001 Caldate : 06-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	3044252	2.40

87447043022

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87447043032
Cal : 87447043001
Standards: S7324

File : 110607r
Caldate : 06-NOV-2007

IDF : 1.0
Time : 06-NOV-2007 12:57

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.8	ug/L	12	20	
Arsenic	A	500.0	572.9	ug/L	15	20	
Barium	A	500.0	528.8	ug/L	6	20	
Beryllium	A	500.0	541.2	ug/L	8	20	
Cadmium	A	1000	990.3	ug/L	-1	20	
Chromium	A	500.0	494.5	ug/L	-1	20	
Cobalt	A	500.0	449.6	ug/L	-10	20	
Copper	A	500.0	502.8	ug/L	1	20	
Lead	A	1000	941.2	ug/L	-6	20	
Manganese	A	500.0	463.4	ug/L	-7	20	
Molybdenum	A	500.0	502.2	ug/L	0	20	
Nickel	A	1000	921.0	ug/L	-8	20	
Selenium	A	500.0	540.9	ug/L	8	20	
Silver	A	1000	1067	ug/L	7	20	
Thallium	A	500.0	440.8	ug/L	-12	20	
Titanium	A	20000	20040	ug/L	0		
Vanadium	A	500.0	526.7	ug/L	5	20	
Zinc	A	1000	1011	ug/L	1	20	
Aluminum	R	500000	512400	ug/L	2		
Calcium	R	500000	510700	ug/L	2		
Iron	R	200000	198700	ug/L	-1		
Magnesium	R	500000	516600	ug/L	3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2507499	-15.66

87447043032

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87447043034
Cal : 87447043001
Standards: S7554

File : 110607r
Caldate : 06-NOV-2007

IDF : 1.0
Time : 06-NOV-2007 13:03

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.086	28.369	5000	5110	ug/L	2	10	
Arsenic	A	17.415	18.751	5000	5380	ug/L	8	10	
Barium	A	428.09	430.75	5000	5226	ug/L	5	10	
Beryllium	A	2980.6	3124.2	500.0	526.4	ug/L	5	10	
Boron	A	152.17	164.06	5000	5252	ug/L	5	10	
Cadmium	A	205.43	210.43	5000	5158	ug/L	3	10	
Chromium	A	65.041	64.210	5000	4976	ug/L	0	10	
Cobalt	A	111.89	112.72	5000	4948	ug/L	-1	10	
Copper	A	404.11	394.14	5000	4987	ug/L	0	10	
Lead	A	43.361	45.256	5000	5036	ug/L	1	10	
Manganese	A	1301.7	1275.8	5000	5147	ug/L	3	10	
Molybdenum	A	34.233	34.743	5000	5019	ug/L	0	10	
Nickel	A	37.154	37.338	5000	5011	ug/L	0	10	
Selenium	A	27.187	28.728	5000	5185	ug/L	4	10	
Silver	A	438.74	449.27	1000	979.5	ug/L	-2	10	
Thallium	A	15.476	15.468	5000	5065	ug/L	1	10	
Tin	A	21.135	22.264	5000	5005	ug/L	0	10	
Titanium	A	1160.6	1164.5	5000	5103	ug/L	2	10	
Vanadium	A	103.27	106.44	5000	5030	ug/L	1	10	
Zinc	A	94.870	78.236	5000	5052	ug/L	1	10	
Aluminum	R	1.4319	1.3540	20000	20140	ug/L	1	10	
Calcium	R	16.337	15.541	20000	20980	ug/L	5	10	
Iron	R	12.573	12.541	20000	20930	ug/L	5	10	
Magnesium	R	2.1159	2.1648	20000	21580	ug/L	8	10	
Potassium	R	4.8274	4.8039	20000	19820	ug/L	-1	10	
Sodium	R	11.181	10.893	20000	20480	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2891672	-2.73

87447043034

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043036 File : 110607r Time : 06-NOV-2007 13:10
Cal : 87447043001 Caldate : 06-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[33.04]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	3054630	2.75

!=warning ib=instrument blank

87447043036

00364

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87447043046
Cal : 87447043001
Standards: S7324

File : 110607r
Caldate : 06-NOV-2007

IDF : 1.0
Time : 06-NOV-2007 13:54

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	584.1	ug/L	17	20	
Arsenic	A	500.0	554.3	ug/L	11	20	
Barium	A	500.0	529.8	ug/L	6	20	
Beryllium	A	500.0	544.0	ug/L	9	20	
Cadmium	A	1000	987.3	ug/L	-1	20	
Chromium	A	500.0	503.0	ug/L	1	20	
Cobalt	A	500.0	457.3	ug/L	-9	20	
Copper	A	500.0	502.4	ug/L	0	20	
Lead	A	1000	963.9	ug/L	-4	20	
Manganese	A	500.0	464.1	ug/L	-7	20	
Molybdenum	A	500.0	511.0	ug/L	2	20	
Nickel	A	1000	932.2	ug/L	-7	20	
Selenium	A	500.0	536.9	ug/L	7	20	
Silver	A	1000	1065	ug/L	7	20	
Thallium	A	500.0	449.6	ug/L	-10	20	
Titanium	A	20000	20060	ug/L	0		
Vanadium	A	500.0	525.7	ug/L	5	20	
Zinc	A	1000	1009	ug/L	1	20	
Aluminum	R	500000	504300	ug/L	1		
Calcium	R	500000	495400	ug/L	-1		
Iron	R	200000	193100	ug/L	-3		
Magnesium	R	500000	509100	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2483276	-16.47

87447043046

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043048 File : 110607r Time : 06-NOV-2007 14:01
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.086	27.649	5000	4980	ug/L	0	10	
Arsenic	A	17.415	18.455	5000	5295	ug/L	6	10	
Barium	A	428.09	425.14	5000	5158	ug/L	3	10	
Beryllium	A	2980.6	3107.0	500.0	523.5	ug/L	5	10	
Boron	A	152.17	161.14	5000	5158	ug/L	3	10	
Cadmium	A	205.43	206.27	5000	5056	ug/L	1	10	
Chromium	A	65.041	63.228	5000	4900	ug/L	-2	10	
Cobalt	A	111.89	111.39	5000	4890	ug/L	-2	10	
Copper	A	404.11	387.55	5000	4903	ug/L	-2	10	
Lead	A	43.361	44.942	5000	5001	ug/L	0	10	
Manganese	A	1301.7	1259.9	5000	5083	ug/L	2	10	
Molybdenum	A	34.233	34.367	5000	4965	ug/L	-1	10	
Nickel	A	37.154	36.703	5000	4925	ug/L	-1	10	
Selenium	A	27.187	28.040	5000	5060	ug/L	1	10	
Silver	A	438.74	441.66	1000	962.9	ug/L	-4	10	
Thallium	A	15.476	15.195	5000	4975	ug/L	0	10	
Tin	A	21.135	21.877	5000	4918	ug/L	-2	10	
Titanium	A	1160.6	1149.7	5000	5038	ug/L	1	10	
Vanadium	A	103.27	104.50	5000	4938	ug/L	-1	10	
Zinc	A	94.870	77.194	5000	4985	ug/L	0	10	
Aluminum	R	1.4319	1.3607	20000	20240	ug/L	1	10	
Calcium	R	16.337	15.627	20000	21100	ug/L	5	10	
Iron	R	12.573	12.643	20000	21100	ug/L	6	10	
Magnesium	R	2.1159	2.1805	20000	21740	ug/L	9	10	
Potassium	R	4.8274	4.8418	20000	19970	ug/L	0	10	
Sodium	R	11.181	10.972	20000	20630	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2923574	-1.66

87447043048

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043050 File : 110607r Time : 06-NOV-2007 14:08
Cal : 87447043001 Caldate : 06-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.110]	5.000	0.9637	ug/L	!ib
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[16.02]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	[3.225]	5.000	1.986	ug/L	!ib
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	3059637	2.92

!=warning ib=instrument blank

87447043050

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043062 File : 110607r Time : 06-NOV-2007 14:51
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.086	28.123	5000	5065	ug/L	1	10	
Arsenic	A	17.415	18.884	5000	5418	ug/L	8	10	
Barium	A	428.09	433.05	5000	5254	ug/L	5	10	
Beryllium	A	2980.6	3167.1	500.0	533.6	ug/L	7	10	
Boron	A	152.17	165.91	5000	5311	ug/L	6	10	
Cadmium	A	205.43	211.68	5000	5188	ug/L	4	10	
Chromium	A	65.041	64.726	5000	5016	ug/L	0	10	
Cobalt	A	111.89	113.88	5000	4999	ug/L	0	10	
Copper	A	404.11	395.86	5000	5008	ug/L	0	10	
Lead	A	43.361	45.657	5000	5080	ug/L	2	10	
Manganese	A	1301.7	1284.7	5000	5183	ug/L	4	10	
Molybdenum	A	34.233	34.874	5000	5038	ug/L	1	10	
Nickel	A	37.154	37.694	5000	5059	ug/L	1	10	
Selenium	A	27.187	28.729	5000	5185	ug/L	4	10	
Silver	A	438.74	451.33	1000	984.0	ug/L	-2	10	
Thallium	A	15.476	15.428	5000	5052	ug/L	1	10	
Tin	A	21.135	22.494	5000	5057	ug/L	1	10	
Titanium	A	1160.6	1167.1	5000	5114	ug/L	2	10	
Vanadium	A	103.27	106.94	5000	5053	ug/L	1	10	
Zinc	A	94.870	79.118	5000	5109	ug/L	2	10	
Aluminum	R	1.4319	1.3332	20000	19830	ug/L	-1	10	
Calcium	R	16.337	15.384	20000	20770	ug/L	4	10	
Iron	R	12.573	12.215	20000	20390	ug/L	2	10	
Magnesium	R	2.1159	2.1224	20000	21160	ug/L	6	10	
Potassium	R	4.8274	4.8231	20000	19890	ug/L	-1	10	
Sodium	R	11.181	11.413	20000	21460	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2962555	-0.35

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043064 File : 110607r Time : 06-NOV-2007 14:58
Cal : 87447043001 Caldate : 06-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[21.08]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[190.1]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	3149142	5.93

!=warning ib=instrument blank

87447043064

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043075 File : 110607r Time : 06-NOV-2007 15:44
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	556.5	ug/L	11	20	
Arsenic	A	500.0	563.4	ug/L	13	20	
Barium	A	500.0	526.0	ug/L	5	20	
Beryllium	A	500.0	538.1	ug/L	8	20	
Cadmium	A	1000	985.8	ug/L	-1	20	
Chromium	A	500.0	491.4	ug/L	-2	20	
Cobalt	A	500.0	450.7	ug/L	-10	20	
Copper	A	500.0	502.4	ug/L	0	20	
Lead	A	1000	932.1	ug/L	-7	20	
Manganese	A	500.0	461.7	ug/L	-8	20	
Molybdenum	A	500.0	495.5	ug/L	-1	20	
Nickel	A	1000	920.6	ug/L	-8	20	
Selenium	A	500.0	533.0	ug/L	7	20	
Silver	A	1000	1064	ug/L	6	20	
Thallium	A	500.0	428.9	ug/L	-14	20	
Titanium	A	20000	19750	ug/L	-1		
Vanadium	A	500.0	524.4	ug/L	5	20	
Zinc	A	1000	1008	ug/L	1	20	
Aluminum	R	500000	504900	ug/L	1		
Calcium	R	500000	502900	ug/L	1		
Iron	R	200000	192600	ug/L	-4		
Magnesium	R	500000	516700	ug/L	3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2555386	-14.05

87447043075

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043077 File : 110607r Time : 06-NOV-2007 15:50
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.086	27.595	5000	4970	ug/L	-1	10	
Arsenic	A	17.415	18.450	5000	5293	ug/L	6	10	
Barium	A	428.09	424.06	5000	5145	ug/L	3	10	
Beryllium	A	2980.6	3074.0	500.0	517.9	ug/L	4	10	
Boron	A	152.17	160.89	5000	5150	ug/L	3	10	
Cadmium	A	205.43	205.55	5000	5038	ug/L	1	10	
Chromium	A	65.041	63.153	5000	4894	ug/L	-2	10	
Cobalt	A	111.89	110.98	5000	4871	ug/L	-3	10	
Copper	A	404.11	388.95	5000	4921	ug/L	-2	10	
Lead	A	43.361	44.417	5000	4942	ug/L	-1	10	
Manganese	A	1301.7	1256.7	5000	5071	ug/L	1	10	
Molybdenum	A	34.233	33.811	5000	4885	ug/L	-2	10	
Nickel	A	37.154	36.758	5000	4933	ug/L	-1	10	
Selenium	A	27.187	27.827	5000	5022	ug/L	0	10	
Silver	A	438.74	442.59	1000	964.9	ug/L	-4	10	
Thallium	A	15.476	15.086	5000	4940	ug/L	-1	10	
Tin	A	21.135	21.733	5000	4886	ug/L	-2	10	
Titanium	A	1160.6	1146.3	5000	5023	ug/L	0	10	
Vanadium	A	103.27	104.67	5000	4946	ug/L	-1	10	
Zinc	A	94.870	76.109	5000	4915	ug/L	-2	10	
Aluminum	R	1.4319	1.3298	20000	19780	ug/L	-1	10	
Calcium	R	16.337	15.188	20000	20500	ug/L	3	10	
Iron	R	12.573	12.029	20000	20080	ug/L	0	10	
Magnesium	R	2.1159	2.0766	20000	20700	ug/L	4	10	
Potassium	R	4.8274	4.7646	20000	19650	ug/L	-2	10	
Sodium	R	11.181	10.868	20000	20440	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2918886	-1.82

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043079 File : 110607r Time : 06-NOV-2007 15:57
Cal : 87447043001 Caldate : 06-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[24.74]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	[4.003]	20.00	3.056	ug/L	!ib
Aluminum	R	[26.08]	100.0	24.86	ug/L	!ib
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[128.2]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	3079011	3.57

!=warning ib=instrument blank

87447043079

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043089 File : 110607r Time : 06-NOV-2007 17:45
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	565.2	ug/L	13	20	
Arsenic	A	500.0	557.5	ug/L	12	20	
Barium	A	500.0	521.1	ug/L	4	20	
Beryllium	A	500.0	530.6	ug/L	6	20	
Cadmium	A	1000	970.8	ug/L	-3	20	
Chromium	A	500.0	488.8	ug/L	-2	20	
Cobalt	A	500.0	445.2	ug/L	-11	20	
Copper	A	500.0	500.5	ug/L	0	20	
Lead	A	1000	921.8	ug/L	-8	20	
Manganese	A	500.0	456.2	ug/L	-9	20	
Molybdenum	A	500.0	492.0	ug/L	-2	20	
Nickel	A	1000	908.3	ug/L	-9	20	
Selenium	A	500.0	529.0	ug/L	6	20	
Silver	A	1000	1054	ug/L	5	20	
Thallium	A	500.0	427.6	ug/L	-14	20	
Titanium	A	20000	19640	ug/L	-2		
Vanadium	A	500.0	520.4	ug/L	4	20	
Zinc	A	1000	980.0	ug/L	-2	20	
Aluminum	R	500000	496700	ug/L	-1		
Calcium	R	500000	487300	ug/L	-3		
Iron	R	200000	186800	ug/L	-7		
Magnesium	R	500000	488500	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2545524	-14.38

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043091 File : 110607r Time : 06-NOV-2007 17:52
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.086	28.131	5000	5067	ug/L	1	10	
Arsenic	A	17.415	18.650	5000	5351	ug/L	7	10	
Barium	A	428.09	432.89	5000	5252	ug/L	5	10	
Beryllium	A	2980.6	3116.2	500.0	525.0	ug/L	5	10	
Boron	A	152.17	164.29	5000	5259	ug/L	5	10	
Cadmium	A	205.43	211.57	5000	5185	ug/L	4	10	
Chromium	A	65.041	64.570	5000	5004	ug/L	0	10	
Cobalt	A	111.89	113.19	5000	4968	ug/L	-1	10	
Copper	A	404.11	398.04	5000	5036	ug/L	1	10	
Lead	A	43.361	44.296	5000	4929	ug/L	-1	10	
Manganese	A	1301.7	1283.0	5000	5176	ug/L	4	10	
Molybdenum	A	34.233	34.632	5000	5004	ug/L	0	10	
Nickel	A	37.154	37.734	5000	5064	ug/L	1	10	
Selenium	A	27.187	28.259	5000	5100	ug/L	2	10	
Silver	A	438.74	451.63	1000	984.6	ug/L	-2	10	
Thallium	A	15.476	15.099	5000	4944	ug/L	-1	10	
Tin	A	21.135	22.304	5000	5014	ug/L	0	10	
Titanium	A	1160.6	1170.7	5000	5130	ug/L	3	10	
Vanadium	A	103.27	107.59	5000	5084	ug/L	2	10	
Zinc	A	94.870	77.881	5000	5030	ug/L	1	10	
Aluminum	R	1.4319	1.3551	20000	20160	ug/L	1	10	
Calcium	R	16.337	15.450	20000	20860	ug/L	4	10	
Iron	R	12.573	12.285	20000	20500	ug/L	3	10	
Magnesium	R	2.1159	2.1105	20000	21040	ug/L	5	10	
Potassium	R	4.8274	4.8672	20000	20080	ug/L	0	10	
Sodium	R	11.181	11.209	20000	21080	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2912631	-2.03

87447043091

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043093 File : 110607r Time : 06-NOV-2007 17:59
Cal : 87447043001 Caldate : 06-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	3083002	3.70

87447043093

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87447043105
Cal : 87447043001
Standards: S7554

File : 110607r
Caldate : 06-NOV-2007

IDF : 1.0
Time : 06-NOV-2007 18:45

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.086	27.735	5000	4995	ug/L	0	10	
Arsenic	A	17.415	18.343	5000	5263	ug/L	5	10	
Barium	A	428.09	431.13	5000	5231	ug/L	5	10	
Beryllium	A	2980.6	3114.8	500.0	524.8	ug/L	5	10	
Boron	A	152.17	164.58	5000	5268	ug/L	5	10	
Cadmium	A	205.43	211.06	5000	5173	ug/L	3	10	
Chromium	A	65.041	64.270	5000	4980	ug/L	0	10	
Cobalt	A	111.89	112.82	5000	4952	ug/L	-1	10	
Copper	A	404.11	397.51	5000	5029	ug/L	1	10	
Lead	A	43.361	44.033	5000	4899	ug/L	-2	10	
Manganese	A	1301.7	1279.1	5000	5161	ug/L	3	10	
Molybdenum	A	34.233	34.451	5000	4977	ug/L	0	10	
Nickel	A	37.154	37.571	5000	5042	ug/L	1	10	
Selenium	A	27.187	27.768	5000	5011	ug/L	0	10	
Silver	A	438.74	447.29	1000	975.1	ug/L	-2	10	
Thallium	A	15.476	14.928	5000	4888	ug/L	-2	10	
Tin	A	21.135	22.179	5000	4986	ug/L	0	10	
Titanium	A	1160.6	1165.9	5000	5109	ug/L	2	10	
Vanadium	A	103.27	107.19	5000	5065	ug/L	1	10	
Zinc	A	94.870	77.663	5000	5015	ug/L	0	10	
Aluminum	R	1.4319	1.3619	20000	20260	ug/L	1	10	
Calcium	R	16.337	15.484	20000	20900	ug/L	5	10	
Iron	R	12.573	12.275	20000	20490	ug/L	2	10	
Magnesium	R	2.1159	2.1106	20000	21040	ug/L	5	10	
Potassium	R	4.8274	4.9109	20000	20260	ug/L	1	10	
Sodium	R	11.181	11.296	20000	21240	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2954659	-0.62

87447043105

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043107 File : 110607r Time : 06-NOV-2007 18:52
Cal : 87447043001 Caldate : 06-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[19.81]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	[0.7446]	5.000	0.6463	ug/L	!ib
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[81.94]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	3115826	4.81

!=warning ib=instrument blank

87447043107

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043116 File : 110607r Time : 06-NOV-2007 19:27
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	555.4	ug/L	11	20	
Arsenic	A	500.0	533.2	ug/L	7	20	
Barium	A	500.0	523.1	ug/L	5	20	
Beryllium	A	500.0	534.4	ug/L	7	20	
Cadmium	A	1000	973.7	ug/L	-3	20	
Chromium	A	500.0	488.5	ug/L	-2	20	
Cobalt	A	500.0	445.0	ug/L	-11	20	
Copper	A	500.0	503.7	ug/L	1	20	
Lead	A	1000	932.3	ug/L	-7	20	
Manganese	A	500.0	457.8	ug/L	-8	20	
Molybdenum	A	500.0	495.4	ug/L	-1	20	
Nickel	A	1000	911.7	ug/L	-9	20	
Selenium	A	500.0	518.0	ug/L	4	20	
Silver	A	1000	1063	ug/L	6	20	
Thallium	A	500.0	428.9	ug/L	-14	20	
Titanium	A	20000	19740	ug/L	-1		
Vanadium	A	500.0	523.9	ug/L	5	20	
Zinc	A	1000	984.9	ug/L	-2	20	
Aluminum	R	500000	501500	ug/L	0		
Calcium	R	500000	486600	ug/L	-3		
Iron	R	200000	189000	ug/L	-5		
Magnesium	R	500000	499800	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2576011	-13.35

87447043116

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043119 File : 110607r Time : 06-NOV-2007 19:35
Cal : 87447043001 Caldate : 06-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.086	28.085	5000	5058	ug/L	1	10	
Arsenic	A	17.415	18.677	5000	5359	ug/L	7	10	
Barium	A	428.09	430.58	5000	5224	ug/L	4	10	
Beryllium	A	2980.6	3142.5	500.0	529.4	ug/L	6	10	
Boron	A	152.17	165.73	5000	5305	ug/L	6	10	
Cadmium	A	205.43	208.41	5000	5108	ug/L	2	10	
Chromium	A	65.041	64.353	5000	4987	ug/L	0	10	
Cobalt	A	111.89	112.63	5000	4944	ug/L	-1	10	
Copper	A	404.11	398.62	5000	5043	ug/L	1	10	
Lead	A	43.361	44.780	5000	4983	ug/L	0	10	
Manganese	A	1301.7	1278.8	5000	5160	ug/L	3	10	
Molybdenum	A	34.233	34.799	5000	5028	ug/L	1	10	
Nickel	A	37.154	37.302	5000	5006	ug/L	0	10	
Selenium	A	27.187	28.218	5000	5093	ug/L	2	10	
Silver	A	438.74	450.03	1000	981.1	ug/L	-2	10	
Thallium	A	15.476	15.281	5000	5003	ug/L	0	10	
Tin	A	21.135	22.066	5000	4961	ug/L	-1	10	
Titanium	A	1160.6	1169.4	5000	5125	ug/L	2	10	
Vanadium	A	103.27	106.99	5000	5056	ug/L	1	10	
Zinc	A	94.870	76.958	5000	4970	ug/L	-1	10	
Aluminum	R	1.4319	1.4188	20000	21100	ug/L	6	10	
Calcium	R	16.337	16.061	20000	21680	ug/L	8	10	
Iron	R	12.573	12.799	20000	21360	ug/L	7	10	
Magnesium	R	2.1159	2.1872	20000	21810	ug/L	9	10	
Potassium	R	4.8274	5.0976	20000	21030	ug/L	5	10	
Sodium	R	11.181	11.557	20000	21730	ug/L	9	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	2937891	-1.18

87447043119

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87447043121 File : 110607r Time : 06-NOV-2007 19:41
Cal : 87447043001 Caldate : 06-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[20.15]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	[25.55]	100.0	24.86	ug/L	!ib
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[77.13]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2972968	3098996	4.24

!=warning ib=instrument blank

87447043121

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87447043 Instrument: MET08 PE ICP Begun: 06-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	110607r	ICALBLK				06-NOV-2007 10:43	1.0	1.0				
002	110607r	ICAL	CRIM08			06-NOV-2007 10:47	1.0	1.0			1	
003	110607r	ICAL	CS100			06-NOV-2007 10:51	1.0	1.0			2	
004	110607r	ICAL	CS1K			06-NOV-2007 10:54	1.0	1.0			3	
005	110607r	ICAL	CS10K			06-NOV-2007 10:57	1.0	1.0			4	
006	110607r	ICAL	CS100K			06-NOV-2007 11:00	1.0	1.0			5	
007	110607r	ICV				06-NOV-2007 11:03	1.0	1.0		5000	6	
008	110607r	ICB				06-NOV-2007 11:06	1.0	1.0		5000		
009	110607r	ICSA				06-NOV-2007 11:10	1.0	1.0		5000	7	10:AL=529897
010	110607r	ICSAB				06-NOV-2007 11:39	1.0	1.0		5000	8	5:AL=520807
011	110607r	IDL	198161-001			06-NOV-2007 11:42	1.0	1.0		5000		
012	110607r	IDL	198161-001			06-NOV-2007 11:46	1.0	1.0		5000		
013	110607r	IDL	198161-001			06-NOV-2007 11:50	1.0	1.0		5000		
014	110607r	IDL	198161-001			06-NOV-2007 11:54	1.0	1.0		5000		
015	110607r	IDL	198161-001			06-NOV-2007 11:58	1.0	1.0		5000		
016	110607r	IDL	198161-001			06-NOV-2007 12:02	1.0	1.0		5000		
017	110607r	IDL	198161-001			06-NOV-2007 12:05	1.0	1.0		5000		
018	110607r	ICSAB				06-NOV-2007 12:09	1.0	1.0		5000	8	5:AL=509250
019	110607r	X	RINSE			06-NOV-2007 12:12	1.0					
020	110607r	CCV				06-NOV-2007 12:16	1.0	1.0		5000	9	
021	110607r	X	FLUSH			06-NOV-2007 12:19	1.0					
022	110607r	CCB				06-NOV-2007 12:23	1.0	1.0		5000		
023	110607r	BLANK	QC413851	131349	Water	06-NOV-2007 12:27	1.0	1.0		5000		
024	110607r	BS	QC413852	131349	Water	06-NOV-2007 12:31	1.0	1.0		5000		
025	110607r	BSD	QC413853	131349	Water	06-NOV-2007 12:34	1.0	1.0		5000		
026	110607r	MSS	198879-001	131349	Water	06-NOV-2007 12:37	1.0	1.0	2	5000		2:NA=113650
027	110607r	MS	QC413854	131349	Water	06-NOV-2007 12:39	1.0	1.0	1	5000		2:NA=129259
028	110607r	MSD	QC413855	131349	Water	06-NOV-2007 12:42	1.0	1.0	1	5000		2:NA=131866
029	110607r	SAMPLE	198879-002	131349	Water	06-NOV-2007 12:45	1.0	1.0	1	5000		2:NA=116572
030	110607r	SAMPLE	198872-002	131349	Filtra	06-NOV-2007 12:48	1.0	1.0		5000		3:NA=204288
031	110607r	SAMPLE	198872-003	131349	Filtra	06-NOV-2007 12:53	1.0	1.0		5000		3:NA=219704

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6920 11=S6921

Analyst: _____ Date: 11/6/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87447043 Instrument: MET08 PE ICP Begun: 06-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	110607r	ICSAB				06-NOV-2007 12:57	1.0	1.0		5000	8	5:MG=516632
033	110607r	X	RINSE			06-NOV-2007 13:00	1.0					
034	110607r	CCV				06-NOV-2007 13:03	1.0	1.0		5000	9	
035	110607r	X	FLUSH			06-NOV-2007 13:07	1.0					
036	110607r	CCB				06-NOV-2007 13:10	1.0	1.0		5000		
037	110607r	BLANK	QC413890	131358	WET Le	06-NOV-2007 13:23	10.0	5.0	1	5000		1:NA=151134
038	110607r	BS	QC413891	131358	WET Le	06-NOV-2007 13:27	1.0	1.0		5000		
039	110607r	BSD	QC413892	131358	WET Le	06-NOV-2007 13:31	1.0	1.0		5000		
040	110607r	MSS	198885-006	131358	WET Le	06-NOV-2007 13:34	10.0	5.0	2	5000		1:NA=152244
041	110607r	MS	QC413893	131358	WET Le	06-NOV-2007 13:37	10.0	5.0		5000		1:NA=147416
042	110607r	MSD	QC413894	131358	WET Le	06-NOV-2007 13:40	10.0	5.0		5000		1:NA=150501
043	110607r	SAMPLE	198934-001	131358	WET Le	06-NOV-2007 13:43	10.0	5.0		5000		1:NA=159957
044	110607r	SAMPLE	198934-002	131358	WET Le	06-NOV-2007 13:47	10.0	5.0		5000		1:NA=168763
045	110607r	MSS	198885-006	131358	WET Le	06-NOV-2007 13:51	10.0	5.0	1	5000		1:NA=141992
046	110607r	ICSAB				06-NOV-2007 13:54	1.0	1.0		5000	8	5:MG=509096
047	110607r	X	RINSE			06-NOV-2007 13:57	1.0					
048	110607r	CCV				06-NOV-2007 14:01	1.0	1.0		5000	9	
049	110607r	X	FLUSH			06-NOV-2007 14:04	1.0					
050	110607r	CCB				06-NOV-2007 14:08	1.0	1.0		5000		
051	110607r	?SAMPLE	198900-001	131358		06-NOV-2007 14:12	10.0					
052	110607r	?SAMPLE	198900-002	131358		06-NOV-2007 14:16	10.0					
053	110607r	?SAMPLE	198900-003	131358		06-NOV-2007 14:20	10.0					
054	110607r	?SAMPLE	198900-004	131358		06-NOV-2007 14:24	10.0					
055	110607r	SAMPLE	198923-001	131358	WET Le	06-NOV-2007 14:27	10.0	5.0		5000		1:NA=160567
056	110607r	SAMPLE	198938-001	131358	WET Le	06-NOV-2007 14:30	10.0	5.0	1	5000		1:NA=127655
057	110607r	SAMPLE	198944-001	131349	Water	06-NOV-2007 14:33	1.0	1.0		5000		1:B=13706.6
058	110607r	SAMPLE	198871-003	131349	Filtra	06-NOV-2007 14:37	1.0	1.0		5000		3:CA=500150
059	110607r	SAMPLE	198871-004	131349	Filtra	06-NOV-2007 14:41	1.0	1.0		5000		1:NA=126537
060	110607r	SAMPLE	198871-005	131349	Filtra	06-NOV-2007 14:44	1.0	1.0		5000		2:NA=182701
061	110607r	X	RINSE			06-NOV-2007 14:48	1.0					
062	110607r	CCV				06-NOV-2007 14:51	1.0	1.0		5000	9	

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6920 11=S6921

Analyst: _____ Date: 11/6/07

S3382

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87447043 Instrument: MET08 PE ICP Begun: 06-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	110607r	X	FLUSH			06-NOV-2007 14:55	1.0					
064	110607r	CCB				06-NOV-2007 14:58	1.0	1.0		5000		
065	110607r	SAMPLE	198871-007	131349	Filtra	06-NOV-2007 15:02	1.0	1.0		5000		2:NA=195335
066	110607r	SAMPLE	198871-011	131349	Filtra	06-NOV-2007 15:06	1.0	1.0		5000		3:CA=169749
067	110607r	SAMPLE	198871-012	131349	Filtra	06-NOV-2007 15:10	1.0	1.0		5000		3:NA=197647
068	110607r	SAMPLE	198871-013	131349	Filtra	06-NOV-2007 15:14	1.0	1.0		5000		2:NA=198158
069	110607r	SAMPLE	198871-014	131349	Filtra	06-NOV-2007 15:18	1.0	1.0		5000		3:NA=240571
070	110607r	SAMPLE	198871-015	131349	Filtra	06-NOV-2007 15:22	1.0	1.0		5000		2:NA=191242
071	110607r	SAMPLE	198890-004	131349	Filtra	06-NOV-2007 15:29	1.0	1.0		5000		2:CA=226345
072	110607r	SAMPLE	198890-005	131349	Filtra	06-NOV-2007 15:33	1.0	1.0		5000		1:NA=123346
073	110607r	SAMPLE	198890-006	131349	Filtra	06-NOV-2007 15:36	1.0	1.0		5000		1:NA=107082
074	110607r	SAMPLE	198890-007	131349	Filtra	06-NOV-2007 15:40	1.0	1.0		5000		1:NA=156501
075	110607r	ICSAB				06-NOV-2007 15:44	1.0	1.0		5000	8	5:MG=516652
076	110607r	X	RINSE			06-NOV-2007 15:47	1.0					
077	110607r	CCV				06-NOV-2007 15:50	1.0	1.0		5000	9	
078	110607r	X	FLUSH			06-NOV-2007 15:53	1.0					
079	110607r	CCB				06-NOV-2007 15:57	1.0	1.0		5000		
080	110607r	BLANK	QC413857	131350	Water	06-NOV-2007 17:16	1.0	1.0		5000		
081	110607r	BS	QC413858	131350	Water	06-NOV-2007 17:20	1.0	1.0		5000		
082	110607r	BSD	QC413859	131350	Water	06-NOV-2007 17:23	1.0	1.0		5000		
083	110607r	MSS	198926-001	131350	Water	06-NOV-2007 17:26	1.0	1.0		5000		
084	110607r	MS	QC413860	131350	Water	06-NOV-2007 17:29	1.0	1.0		5000		1:NA=107979
085	110607r	MSD	QC413861	131350	Water	06-NOV-2007 17:32	1.0	1.0		5000		1:NA=114065
086	110607r	SER	QC413862	131350	Water	06-NOV-2007 17:35	5.0	1.0	1	5000		
087	110607r	PDS	QC413863	131350	Water	06-NOV-2007 17:39	1.0	1.0		5000	10 11	1:NA=109705
088	110607r	SAMPLE	198938-001	131358	WET Le	06-NOV-2007 17:42	10.0	5.0		5000		1:NA=132375
089	110607r	ICSAB				06-NOV-2007 17:45	1.0	1.0		5000	8	5:AL=496664
090	110607r	X	RINSE			06-NOV-2007 17:48	1.0					
091	110607r	CCV				06-NOV-2007 17:52	1.0	1.0		5000	9	
092	110607r	X	FLUSH			06-NOV-2007 17:55	1.0					
093	110607r	CCB				06-NOV-2007 17:59	1.0	1.0		5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6920 11=S6921

Analyst: _____ Date: 11/6/07

0383

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87447043 Instrument: MET08 PE ICP Begun: 06-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	110607r	SAMPLE	198895-001	131350	Water	06-NOV-2007 18:03	1.0	1.0		5000		1:NA=189421
095	110607r	SAMPLE	198895-002	131350	Water	06-NOV-2007 18:06	1.0	1.0		5000		1:NA=177685
096	110607r	SAMPLE	198903-004	131350	Water	06-NOV-2007 18:10	1.0	1.0		5000		
097	110607r	SAMPLE	198882-003	131350	Water	06-NOV-2007 18:14	1.0	1.0		5000		1:CA=124546
098	110607r	SAMPLE	198882-004	131350	Water	06-NOV-2007 18:18	1.0	1.0		5000		1:CA=159132
099	110607r	SAMPLE	198892-004	131350	Filtra	06-NOV-2007 18:21	1.0	1.0	1	5000		1:NA=192952
100	110607r	SAMPLE	198892-005	131350	Filtra	06-NOV-2007 18:25	1.0	1.0		5000		
101	110607r	SAMPLE	198892-004	131350	Filtra	06-NOV-2007 18:29	1.0	1.0	1	5000		1:NA=197096
102	110607r	X	RINSE			06-NOV-2007 18:33	1.0					
103	110607r	SAMPLE	198908-008	131350	Filtra	06-NOV-2007 18:37	1.0	1.0		5000		2:CA=140542
104	110607r	X	RINSE			06-NOV-2007 18:41	1.0					
105	110607r	CCV				06-NOV-2007 18:45	1.0	1.0		5000	9	
106	110607r	X	FLUSH			06-NOV-2007 18:48	1.0					
107	110607r	CCB				06-NOV-2007 18:52	1.0	1.0		5000		
108	110607r	SAMPLE	198908-012	131350	Filtra	06-NOV-2007 18:56	1.0	1.0	1	5000		1:CA=105040
109	110607r	SAMPLE	198881-002	131350	Filtra	06-NOV-2007 19:00	1.0	1.0		5000		2:CA=223533
110	110607r	SAMPLE	198881-009	131350	Filtra	06-NOV-2007 19:04	1.0	1.0		5000		2:CA=159454
111	110607r	SAMPLE	198881-014	131350	Filtra	06-NOV-2007 19:08	1.0	1.0		5000		2:CA=188952
112	110607r	SAMPLE	198881-018	131350	Filtra	06-NOV-2007 19:12	1.0	1.0		5000		2:CA=131004
113	110607r	SAMPLE	198881-019	131350	Filtra	06-NOV-2007 19:15	1.0	1.0		5000		2:CA=123327
114	110607r	SAMPLE	198892-004	131350	Filtra	06-NOV-2007 19:18	10.0	1.0		5000		
115	110607r	SAMPLE	198908-012	131350	Filtra	06-NOV-2007 19:22	1.0	1.0		5000		1:CA=103256
116	110607r	ICSAB				06-NOV-2007 19:27	1.0	1.0		5000	8	5:AL=501505
117	110607r	X	RINSE			06-NOV-2007 19:30	1.0					
118	110607r	X				06-NOV-2007 19:33	1.0				9	
119	110607r	CCV				06-NOV-2007 19:35	1.0	1.0		5000	9	
120	110607r	X	FLUSH			06-NOV-2007 19:38	1.0					
121	110607r	CCB				06-NOV-2007 19:41	1.0	1.0		5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6920 11=S6921

Analyst: _____ Date: 11/6/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198903 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN	
198903-004	MET14	11/02/07 16:05	1.0										+								
198903-004	MET08	11/06/07 18:10	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC413454	MET14	11/02/07 15:20	1.0										+								
QC413455	MET14	11/02/07 15:23	1.0										+								
QC413456	MET14	11/02/07 15:25	1.0										+								
QC413457	MET14	11/02/07 16:33	5.0										+								
QC413458	MET14	11/02/07 15:31	1.0										+								
QC413459	MET14	11/02/07 15:34	1.0										+								
QC413857	MET08	11/06/07 17:16	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC413858	MET08	11/06/07 17:20	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC413859	MET08	11/06/07 17:23	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC413860	MET08	11/06/07 17:29	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC413861	MET08	11/06/07 17:32	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC413862	MET08	11/06/07 17:35	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC413863	MET08	11/06/07 17:39	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Preparation Summary 06-NOV-2007 09:18

Batch Number : 131350
Date Extracted: 06-NOV-2007
Extracted by : Kevin Gaines
Prep Method : 3010A

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S6920
Spike #2 ID : S6921
Spike #3 ID :
SOP Version : 3010A_ICP_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198881-002			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/ICP		
198881-009			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/ICP		
198881-014			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/ICP		
198881-018			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/ICP		
198881-019			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/ICP		
198882-003			LFR Levine Fricke	Water	50	mL	50	1.000000	1				FE		
198882-004			LFR Levine Fricke	Water	50	mL	50	1.000000	1				FE		
198892-004			TRC Environmental Solutions, I	Filtrate	50	mL	50	1.000000	1				AL, CA, FE, (more)		
198892-005			TRC Environmental Solutions, I	Filtrate	50	mL	50	1.000000	1				MN		
198895-001			SOMA Environmental Engineering	Water	50	mL	50	1.000000	1				CD, CR, NI, PB, ZN		
198895-002			SOMA Environmental Engineering	Water	50	mL	50	1.000000	1				CD, CR, NI, PB, ZN		
198903-004			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/ICP		
198908-008			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/ICP		
198908-012			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/ICP		
198926-001			URS Corporation	Water	50	mL	50	1.000000	1				AG, AS, CR, (more)		
QC413857	BLANK			Water	50	mL	50	1.000000	1				ICAP		
QC413858	BS			Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC413859	BSD			Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC413860	MS	of 198926-001		Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC413861	MSD	of 198926-001		Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC413862	SER	of 198926-001		Water	50	mL	50	1.000000	1				ICAP		
QC413863	PDS	of 198926-001		Water	50	mL	50	1.000000	1				ICAP		

9838

Prep Chemist: [signature] 11/6/07 Reviewed By: [signature] Date: 11/6/07

Relinquished By: [signature] 11/6/07 Received By: [signature] Date: 11/6/07

Water Digestion for ICP

8:00 AM

Curtis & Tompkins, Ltd.

LIMS Batch #: 131350
Date Digested: 11/6/07
Digested by: KLD

Digestion Method
☑ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK 2547
Page 92
Continued From: _____
Continued On: _____

	Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLK	50	50	N	
	LCS				
	LCSD				
	MS -01F				
5	MSD -01				
	198926-01				
	895-01 K				
	-02				
	903-04 H				
10	882-03 K				
	04				
	892-04 I				FIELD FILTERED
	05 H				FILTERED IN LAB
	908-08 G				
15	-12				
	881-02				
	-09				
	-14				
	-18				
20	-19				

Reagent ID or LIMS #	Initials / Date
95	KLA 11/6
369270	
369271	
K26035	
E110550806007	
N/A	

.5 mL of spike solution was added to all spikes

digestion temperature (90-95 degrees C)

☐ 1:1 HNO3, ☐ concentrated HNO3, added to all samples

1:1 HCl added to all samples

☐ filtered thru' Whatman # 541

Relinquished to ICP group

Prep Chemist Signature / Date

Reviewer Signature / Date 11/6/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

st : MET14
lnum : 847441541001
its : ug/L

Date : 02-NOV-2007 15:01
X Axis : R

Reviewer : ---
Type : WATER

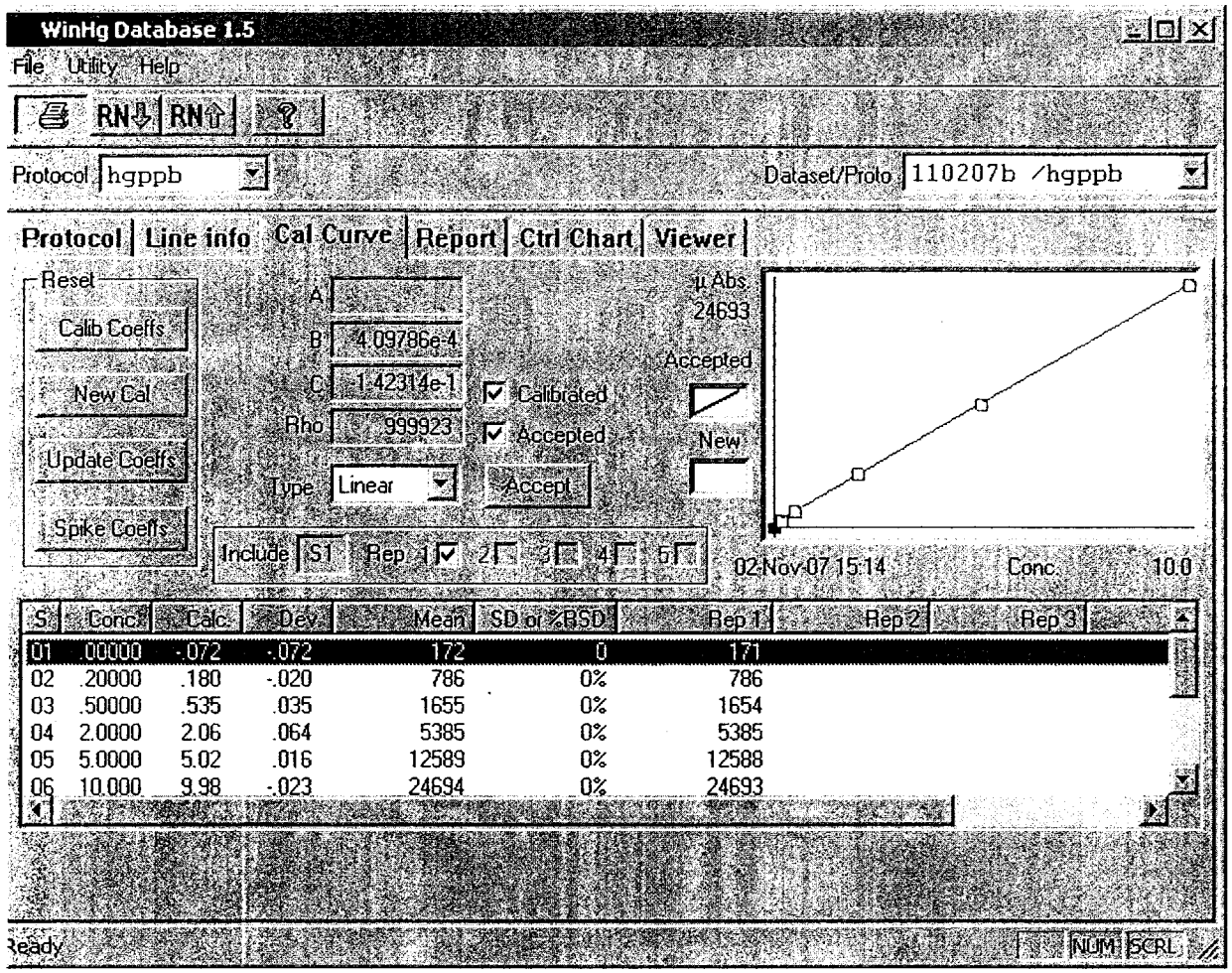
el	File	Seqnum	Sample ID	Analyzed	Stds
	131249	847441541002	STD02REP1	02-NOV-2007 15:03	S7584 (500X)
	131249	847441541003	STD03REP1	02-NOV-2007 15:05	S7584 (200X)
	131249	847441541004	STD04REP1	02-NOV-2007 15:07	S7584 (50X)
	131249	847441541005	STD05REP1	02-NOV-2007 15:10	S7584 (20X)
	131249	847441541006	STD06REP1	02-NOV-2007 15:12	S7584 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
cury	3930.0	3308.0	2692.5	2517.6	2469.3	LINR	-0.1423	4.10E-4		2983.5	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
cury	0.200	-10	0.500	7	2.000	3	5.000	0	10.00	0

ent amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

847441541001


WinHg Database 1.5
File Utility Help
RN⇩ RN⇧
Protocol hgppb
Dataset/Proto 110207b /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 4.09786e-4
C 1.42314e-1
Rho 999923
Type Linear
Calibrated
Accepted
Accept
µ Abs
24693
Accepted
New
Include S1 Rep 1 2 3 4 5
02-Nov-07 15:14
Conc. 10.0
S Conc Calc Dev Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.072 -.072 172 0 171
02 .20000 .180 -.020 786 0% 786
03 .50000 .535 .035 1655 0% 1654
04 2.0000 2.06 .064 5385 0% 5385
05 5.0000 5.02 .016 12589 0% 12588
06 10.000 9.98 -.023 24694 0% 24693
Ready
NUM SCRL

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		15:01:19 02 Nov 07			HG
Hg	.000	ppb	171						
		Bkgd 1	17429514						=
									=
*** Standard: 2 Rep: 1				Seq: 2		15:03:23 02 Nov 07			HG
Hg	.200	ppb	786						
		Bkgd 1	17421032						=
									=
*** Standard: 3 Rep: 1				Seq: 3		15:05:30 02 Nov 07			HG
Hg	.500	ppb	1654						
		Bkgd 1	17415851						=
									=
*** Standard: 4 Rep: 1				Seq: 4		15:07:36 02 Nov 07			HG
Hg	2.00	ppb	5385						
		Bkgd 1	17421402						=
									=
*** Standard: 5 Rep: 1				Seq: 5		15:10:11 02 Nov 07			HG
Hg	5.00	ppb	12588						
		Bkgd 1	17420782						=
									=
*** Standard: 6 Rep: 1				Seq: 6		15:12:16 02 Nov 07			HG
Hg	10.0	ppb	24693						
		Bkgd 1	17413805						=
									=
*** Check Standard: 2			Ck2S7586	Seq: 7		15:15:58 02 Nov 07			HG
Line Flag			Intensities						
Hg			12742						
		Bkgd 1	17428927						=
									=
*** Check Standard: 1			Ck1ICB	Seq: 8		15:18:23 02 Nov 07			HG
Line Flag			Intensities						
Hg			243						
		Bkgd 1	17415086						=
									=
*** Sample ID: qc413454				Seq: 9		15:20:38 02 Nov 07			HG
			131249,1						
Hg	-.072	ppb	171						
		Bkgd 1	17413067						=
									=

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 847441541 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 02-NOV-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131249	ICALBLK	STD01REP1				02-NOV-2007 15:01	1.0	1.0									
131249	ICAL	STD02REP1				02-NOV-2007 15:03	1.0	1.0									
131249	ICAL	STD03REP1				02-NOV-2007 15:05	1.0	1.0									
131249	ICAL	STD04REP1				02-NOV-2007 15:07	1.0	1.0									
131249	ICAL	STD05REP1				02-NOV-2007 15:10	1.0	1.0									
131249	ICAL	STD06REP1				02-NOV-2007 15:12	1.0	1.0									
131249	ICV					02-NOV-2007 15:15	1.0	1.0	2	5.000	847441541001	5.080		ug/L	102		
131249	ICB					02-NOV-2007 15:18	1.0	1.0			847441541001	ND	0.20	ug/L			
131249	BLANK	QC413454		131249	Water	02-NOV-2007 15:20	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	BS	QC413455		131249	Water	02-NOV-2007 15:23	1.0	1.0		5.000	847441541001	4.920	0.20	ug/L	98		u
131249	BSD	QC413456		131249	Water	02-NOV-2007 15:25	1.0	1.0		5.000	847441541001	5.000	0.20	ug/L	100	2	u
131249	MSS	198885-005		131249	Water	02-NOV-2007 15:27	1.0	1.0			847441541001	4.9	0.20	ug/L			u
131249	MS	QC413458	198885-005	131249	Water	02-NOV-2007 15:31	1.0	1.0		5.000	847441541001	9.370	0.20	ug/L	90		u
131249	MSD	QC413459	198885-005	131249	Water	02-NOV-2007 15:34	1.0	1.0		5.000	847441541001	9.610	0.20	ug/L	95	3	u
131249	SAMPLE	198858-003		131249	Water	02-NOV-2007 15:36	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198872-002		131249	Filtra	02-NOV-2007 15:38	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198872-003		131249	Filtra	02-NOV-2007 15:41	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	CCV					02-NOV-2007 15:43	1.0	1.0	3	2.500	847441541001	2.480		ug/L	99		
131249	CCB					02-NOV-2007 15:45	1.0	1.0			847441541001	ND	0.20	ug/L			
131249	SAMPLE	198879-001		131249	Water	02-NOV-2007 15:47	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198879-002		131249	Water	02-NOV-2007 15:49	1.0	1.0			847441541001	0.18 J	0.20	ug/L			u
131249	SAMPLE	198881-002		131249	Filtra	02-NOV-2007 15:52	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198881-009		131249	Filtra	02-NOV-2007 15:54	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198881-014		131249	Filtra	02-NOV-2007 15:56	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198881-018		131249	Filtra	02-NOV-2007 15:58	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198881-019		131249	Filtra	02-NOV-2007 16:01	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198885-007		131249	Water	02-NOV-2007 16:03	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198903-004		131249	Water	02-NOV-2007 16:05	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198913-020		131249	Water	02-NOV-2007 16:07	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	CCV					02-NOV-2007 16:09	1.0	1.0	4	5.000	847441541001	5.110		ug/L	102		
131249	CCB					02-NOV-2007 16:12	1.0	1.0			847441541001	ND	0.20	ug/L			
131249	SAMPLE	198913-021		131249	Water	02-NOV-2007 16:14	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198913-022		131249	Water	02-NOV-2007 16:17	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198913-023		131249	Water	02-NOV-2007 16:19	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	SAMPLE	198913-024		131249	Water	02-NOV-2007 16:21	1.0	1.0			847441541001	ND	0.20	ug/L			u
131249	CCV					02-NOV-2007 16:23	1.0	1.0	5	7.500	847441541001	7.570		ug/L	101		
131249	CCB					02-NOV-2007 16:26	1.0	1.0			847441541001	ND	0.20	ug/L			
131249	SAMPLE	198913-025		131249	Water	02-NOV-2007 16:31	1.0	1.0			847441541001	8.4	0.20	ug/L			u
131249	SER	QC413457	198885-005	131249	Water	02-NOV-2007 16:33	5.0	1.0			847441541001	4.4	1.0	ug/L		9	u
131249	CCV					02-NOV-2007 16:36	1.0	1.0	5	7.500	847441541001	7.600		ug/L	101		
131249	CCB					02-NOV-2007 16:38	1.0	1.0			847441541001	ND	0.20	ug/L			

d used: 1=S7584 2=S7586 3=S7587 4=S7588 5=S7589
ags used: u=use

alyst: _____ Date: 11/2/07

e 1 of 1

Curtis & Tompkins Laboratories Sample Preparation Summary 02-NOV-2007 11:17

Batch Number : 131249
Date Extracted: 02-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S7584
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198858-003			IMTT	Water	50	mL	50	1.000000	1				HG		
198872-002			URS Corporation	Filtrate	50	mL	50	1.000000	1				HG		
198872-003			URS Corporation	Filtrate	50	mL	50	1.000000	1				HG		
198879-001			Mactec, Inc.	Water	50	mL	50	1.000000	1				HG		
198879-002			Mactec, Inc.	Water	50	mL	50	1.000000	1				HG		
198881-002			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198881-009			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198881-014			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198881-018			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198881-019			Kleinfelder	Filtrate	50	mL	50	1.000000	1				T26/HG		
198885-005			CH2M Hill	Water	50	mL	50	1.000000	1				T26/HG		MSS
198885-007			CH2M Hill	Water	50	mL	50	1.000000	1				T26/HG		
198903-004			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/HG		
198913-020			CH2M Hill	Water	50	mL	50	1.000000	1				T26/HG		
198913-021			CH2M Hill	Water	50	mL	50	1.000000	1				T26/HG		
198913-022			CH2M Hill	Water	50	mL	50	1.000000	1				T26/HG		
198913-023			CH2M Hill	Water	50	mL	50	1.000000	1				T26/HG		
198913-024			CH2M Hill	Water	50	mL	50	1.000000	1				T26/HG		
198913-025			CH2M Hill	Water	50	mL	50	1.000000	1				T26/HG		
QC413454	BLANK			Water	50	mL	50	1.000000	1				HG		
QC413455	BS			Water	50	mL	50	1.000000	1	2.5			HG		
QC413456	BSD			Water	50	mL	50	1.000000	1	2.5			HG		
QC413457	SER	of 198885-005		Water	50	mL	50	1.000000	1				HG		
QC413458	MS	of 198885-005		Water	50	mL	50	1.000000	1	2.5			HG		
QC413459	MSD	of 198885-005		Water	50	mL	50	1.000000	1	2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/2/07

Relinquished By: _____ Received By: _____ Date: 11/2/07

0392

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 131249
Date Digested: 11/2/07
Digested by: JXM

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2597
Page 19

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
198858-003A	50.0	50.0	N	
198872-002H	↓	↓	↓	filtrate L.F
↓ 03↓				↓
198879-001B				H_2O
↓ 02C				↓
198881-002G				filtrate (L.F.)
09				
14				
18				
↓ 19 ↓				↓
198885-005B				MSS H_2O
↓ 07A				
198903-004H				
198913-020A				
21				
22				
23				
24				
↓ 25↓				
MB QC 134154				
BS 56				
BSD 57				
MS 59				
MSD ↓ 60	↓	↓	↓	
				JXM 11/2/07

	Reagent ID/ LIMS# / Time	Initials / Date
25 mL of spike solution was added to all spikes	S7584	JXM 11/2/07
ICAL Source WS#	↓	↓
ICV / CCV WS#	S7586/87/88/89	
Digestion of Samples & Standards: Time ON / Temperature ON	11:00 / 95°C	
Time OFF/ Temperature OFF	13:00 / 95°C	
concentrated H_2SO_4	STB 808036	
concentrated HNO_3	STB E22071	
5% $KMnO_4$	K 103107	
5% $K_2S_2O_8$	K_2 101807	
NaCl.hydroxylamine hydrochloride	Hy 101807	
Stannous Chloride	$SnCl_2$ 103107	
☐ filtered thru' 0.45 um syringe filter	—	↓

11/2/07

Continued from page _____

11/2/07

Curtis & Tompkins, Ltd.

Metals
(Soil)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198903	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio-Excavation 3
Field ID:	1065EX359[4.0]	Basis:	dry
Lab ID:	198903-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/01/07
Units:	mg/Kg	Received:	11/01/07

Moisture: 16%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.5	0.60	0.029	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Arsenic	2.3	0.30	0.053	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Barium	76	0.30	0.0050	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Beryllium	0.16	0.12	0.0022	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cadmium	0.024 J	0.30	0.0028	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Chromium	55	0.30	0.018	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cobalt	7.1	0.30	0.0084	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Copper	25	0.30	0.030	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Lead	98	0.25	0.082	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Mercury	0.81	0.024	0.0049	131359	11/06/07	11/06/07	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.024	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Nickel	41	0.30	0.019	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.084	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Silver	0.15 J	0.30	0.019	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.037	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Vanadium	33	0.30	0.023	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Zinc	100	1.2	0.030	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198903	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio-Excavation 3
Field ID:	1065EX360[4.0]	Basis:	dry
Lab ID:	198903-002	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg		

Moisture: 16%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.7	0.60	0.029	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Arsenic	5.5	0.30	0.053	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Barium	74	0.30	0.0050	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Beryllium	0.28	0.12	0.0022	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.30	0.0028	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Chromium	31	0.30	0.018	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cobalt	13	0.30	0.0084	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Copper	56	0.30	0.030	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Lead	74	0.25	0.082	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Mercury	1.5	0.19	0.048	10.00	131359	11/06/07	11/06/07	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.024	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Nickel	29	0.30	0.019	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.084	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Silver	0.068 J	0.30	0.019	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.037	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Vanadium	68	0.30	0.023	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Zinc	120	1.2	0.030	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198903	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio-Excavation 3
Field ID:	DUP110107	Basis:	dry
Lab ID:	198903-003	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg		

Moisture: 15%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	3.9	0.59	0.031	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Arsenic	4.6	0.29	0.055	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Barium	80	0.29	0.0052	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Beryllium	0.25	0.12	0.0023	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cadmium	0.0032 J	0.29	0.0029	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Chromium	29	0.29	0.018	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cobalt	9.9	0.29	0.0087	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Copper	79	0.29	0.031	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Lead	100	0.25	0.085	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Mercury	1.6	0.23	0.058	10.00	131359	11/06/07	11/06/07	METHOD	EPA 7471A
Molybdenum	ND	0.29	0.025	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Nickel	25	0.29	0.020	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Selenium	ND	0.59	0.086	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Silver	0.084 J	0.29	0.020	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Thallium	ND	0.59	0.038	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Vanadium	51	0.29	0.023	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Zinc	79	1.2	0.031	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198903	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio-Excavation 3
Field ID:	1065EX361[4.5]	Basis:	dry
Lab ID:	198903-006	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg		

Moisture: 19%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.9	0.62	0.031	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Arsenic	3.2	0.31	0.057	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Barium	82	0.31	0.0053	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Beryllium	0.27	0.12	0.0023	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.31	0.0030	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Chromium	60	0.31	0.019	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Cobalt	8.8	0.31	0.0089	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Copper	31	0.31	0.032	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Lead	68	0.26	0.087	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Mercury	0.23	0.044	0.011	2.000	131359	11/06/07	11/06/07	METHOD	EPA 7471A
Molybdenum	ND	0.31	0.025	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Nickel	52	0.31	0.021	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Selenium	ND	0.62	0.089	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Silver	0.032 J	0.31	0.021	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Thallium	ND	0.62	0.039	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Vanadium	39	0.31	0.024	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B
Zinc	73	1.2	0.032	1.000	131284	11/02/07	11/05/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	198903	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio-Excavation 3
Field ID:	1065EX362[5.5]	Basis:	dry
Lab ID:	198903-007	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg		

Moisture: 16%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.093 J	0.30	0.0030	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Arsenic	2.0	0.30	0.021	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Barium	51	0.30	0.034	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Beryllium	0.16 J	0.30	0.0097	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Cadmium	0.067 J	0.30	0.0056	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Chromium	68	0.30	0.013	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Cobalt	7.3	0.30	0.016	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Copper	19	0.30	0.048	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Lead	12	0.30	0.0094	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Mercury	0.63	0.024	0.0050	1.000	131609	11/12/07	11/12/07	METHOD	EPA 7471A
Molybdenum	0.12 J	0.30	0.0058	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Nickel	39	0.30	0.064	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Selenium	0.12 J	0.30	0.0073	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Silver	0.028 J	0.30	0.0031	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Thallium	0.017 J	0.30	0.0026	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Vanadium	39	0.30	0.0047	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020
Zinc	43	1.5	0.10	10.00	131447	11/07/07	11/09/07	EPA 3050B	EPA 6020

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413589	Batch#:	131284
Matrix:	Soil	Prepared:	11/02/07
Units:	mg/Kg	Analyzed:	11/05/07
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.027
Arsenic	ND	0.25	0.050
Barium	ND	0.25	0.0047
Beryllium	0.0026 J	0.10	0.0021
Cadmium	ND	0.25	0.0027
Chromium	0.025 J	0.25	0.017
Cobalt	ND	0.25	0.0078
Copper	0.056 J	0.25	0.028
Lead	0.077 J	0.23	0.076
Molybdenum	0.026 J	0.25	0.022
Nickel	ND	0.25	0.018
Selenium	ND	0.50	0.078
Silver	0.060 J	0.25	0.018
Thallium	ND	0.50	0.034
Vanadium	ND	0.25	0.021
Zinc	ND	1.0	0.028

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

16.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413895	Batch#:	131359
Matrix:	Soil	Prepared:	11/06/07
Units:	mg/Kg	Analyzed:	11/06/07

Result	RL	MDL
ND	0.020	0.0052

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	5.000
Lab ID:	QC414273	Batch#:	131447
Matrix:	Soil	Prepared:	11/07/07
Units:	mg/Kg	Analyzed:	11/09/07
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.25	0.0014
Arsenic	ND	0.25	0.0099
Barium	ND	0.25	0.016
Beryllium	ND	0.25	0.0045
Cadmium	ND	0.25	0.0026
Chromium	ND	0.25	0.0059
Cobalt	ND	0.25	0.0073
Copper	ND	0.25	0.022
Lead	0.0048 J	0.25	0.0044
Molybdenum	0.019 J	0.25	0.0027
Nickel	0.048 J	0.25	0.030
Selenium	ND	0.25	0.0034
Silver	ND	0.25	0.0015
Thallium	ND	0.25	0.0012
Vanadium	0.0075 J	0.25	0.0022
Zinc	0.056 J	1.3	0.049

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC414911	Batch#:	131609
Matrix:	Soil	Prepared:	11/12/07
Units:	mg/Kg	Analyzed:	11/12/07

Result	RL	MDL
ND	0.020	0.0052

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

88.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	131284
Units:	mg/Kg	Prepared:	11/02/07
Basis:	as received	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413590

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	90.86	91	75-125
Arsenic	50.00	48.96	98	75-125
Barium	100.0	94.83	95	75-125
Beryllium	2.500	2.454	98	75-125
Cadmium	10.00	9.560	96	75-125
Chromium	100.0	91.53	92	75-125
Cobalt	25.00	22.44	90	75-125
Copper	12.50	11.55	92	75-125
Lead	100.0	91.11	91	75-125
Molybdenum	20.00	19.02	95	75-125
Nickel	25.00	22.55	90	75-125
Selenium	50.00	46.27	93	75-125
Silver	10.00	8.773	88	75-125
Thallium	50.00	45.42	91	75-125
Vanadium	25.00	23.03	92	75-125
Zinc	25.00	22.94	92	75-125

Type: BSD Lab ID: QC413591

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	93.84	94	75-125	3	30
Arsenic	50.00	49.99	100	75-125	2	30
Barium	100.0	97.30	97	75-125	3	30
Beryllium	2.500	2.510	100	75-125	2	30
Cadmium	10.00	9.794	98	75-125	2	30
Chromium	100.0	93.40	93	75-125	2	30
Cobalt	25.00	22.97	92	75-125	2	30
Copper	12.50	11.77	94	75-125	2	30
Lead	100.0	93.10	93	75-125	2	30
Molybdenum	20.00	19.61	98	75-125	3	30
Nickel	25.00	23.03	92	75-125	2	30
Selenium	50.00	47.36	95	75-125	2	30
Silver	10.00	8.892	89	75-125	1	30
Thallium	50.00	46.33	93	75-125	2	30
Vanadium	25.00	23.47	94	75-125	2	30
Zinc	25.00	23.48	94	75-125	2	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131359
Units:	mg/Kg	Prepared:	11/06/07
Basis:	as received	Analyzed:	11/06/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC413896	0.5000	0.5320	106	75-125		
BSD	QC413897	0.5000	0.5180	104	75-125	3	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6020
Matrix:	Soil	Batch#:	131447
Units:	mg/Kg	Prepared:	11/07/07
Basis:	as received	Analyzed:	11/08/07
Diln Fac:	10.00		

Type: BS Lab ID: QC414274

Analyte	Spiked	Result	%REC	Limits
Antimony	25.00	21.74	87	75-125
Arsenic	25.00	23.15	93	75-125
Barium	25.00	23.42	94	75-125
Beryllium	25.00	22.39	90	75-125
Cadmium	25.00	23.36	93	75-125
Chromium	25.00	23.06	92	75-125
Cobalt	25.00	23.58	94	75-125
Copper	25.00	23.01	92	75-125
Lead	25.00	23.66	95	75-125
Molybdenum	25.00	22.30	89	75-125
Nickel	25.00	22.69	91	75-125
Selenium	25.00	23.89	96	75-125
Silver	25.00	22.43	90	75-125
Thallium	25.00	22.67	91	75-125
Vanadium	25.00	23.09	92	75-125
Zinc	25.00	22.50	90	75-125

Type: BSD Lab ID: QC414275

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	25.00	21.45	86	75-125	1	30
Arsenic	25.00	23.45	94	75-125	1	30
Barium	25.00	23.37	93	75-125	0	30
Beryllium	25.00	21.72	87	75-125	3	30
Cadmium	25.00	23.01	92	75-125	1	30
Chromium	25.00	23.29	93	75-125	1	30
Cobalt	25.00	23.84	95	75-125	1	30
Copper	25.00	23.63	95	75-125	3	30
Lead	25.00	23.47	94	75-125	1	30
Molybdenum	25.00	21.98	88	75-125	1	30
Nickel	25.00	23.02	92	75-125	1	30
Selenium	25.00	23.03	92	75-125	4	30
Silver	25.00	21.99	88	75-125	2	30
Thallium	25.00	22.57	90	75-125	0	30
Vanadium	25.00	23.35	93	75-125	1	30
Zinc	25.00	23.15	93	75-125	3	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131609
Units:	mg/Kg	Prepared:	11/12/07
Basis:	as received	Analyzed:	11/12/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC414912	0.5000	0.5400	108	75-125		
BSD	QC414913	0.5000	0.5490	110	75-125	2	35

RPD= Relative Percent Difference

89.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX359[4.0]	Batch#:	131284
MSS Lab ID:	198903-001	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg	Prepared:	11/02/07
Basis:	dry	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC413592

Moisture: 16%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.477	112.3	73.58	63 *	75-125
Arsenic	2.337	56.15	55.92	95	75-125
Barium	76.07	112.3	185.1	97	75-125
Beryllium	0.1645	2.808	2.843	95	75-125
Cadmium	0.02437	11.23	10.43	93	75-125
Chromium	55.28	112.3	152.0	86	75-125
Cobalt	7.093	28.08	31.04	85	75-125
Copper	24.73	14.04	39.44	105 P	75-125
Lead	97.52	112.3	227.8	116	75-125
Molybdenum	<0.02392	22.46	20.26	90	75-125
Nickel	40.88	28.08	64.29	83 P	75-125
Selenium	<0.08351	56.15	50.13	89	75-125
Silver	0.1544	11.23	9.932	87	75-125
Thallium	<0.03683	56.15	46.60	83	75-125
Vanadium	32.59	28.08	57.82	90 P	75-125
Zinc	99.98	28.08	260.2	570 * P	75-125

Type: MSD
Lab ID: QC413593

Moisture: 16%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	114.5	72.39	61 *	75-125	3	30
Arsenic	57.23	57.41	96	75-125	1	30
Barium	114.5	184.2	94	75-125	2	30
Beryllium	2.862	2.917	96	75-125	1	30
Cadmium	11.45	10.51	92	75-125	1	30
Chromium	114.5	163.1	94	75-125	6	30
Cobalt	28.62	31.22	84	75-125	1	30
Copper	14.31	51.56	188 * P	75-125	26	30
Lead	114.5	280.9	160 *	75-125	20	30
Molybdenum	22.89	20.45	89	75-125	1	30
Nickel	28.62	63.59	79 P	75-125	2	30
Selenium	57.23	50.79	89	75-125	1	30
Silver	11.45	10.43	90	75-125	3	30
Thallium	57.23	47.65	83	75-125	0	30
Vanadium	28.62	60.79	99 P	75-125	4	30
Zinc	28.62	196.7	338 * P	75-125	28	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	2.000
Field ID:	ZZZZZZZZZZ	Batch#:	131359
MSS Lab ID:	198885-001	Sampled:	10/31/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg	Prepared:	11/06/07
Basis:	as received	Analyzed:	11/06/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC413899	0.3414	0.4808	1.021	141 *	75-125		
MSD	QC413900		0.4032	0.9468	150 *	75-125	2	35

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

41.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	1065EX359[4.0]	Batch#:	131359
MSS Lab ID:	198903-001	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg	Prepared:	11/06/07
Basis:	dry	Analyzed:	11/06/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC413902	0.8125	0.5411	0.9470	25 * P	75-125	16%		
MSD	QC413903		0.4800	0.7930	-4 * P	75-125	16%	13	35

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

43.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6020
Field ID:	ZZZZZZZZZZ	Batch#:	131447
MSS Lab ID:	198975-001	Sampled:	11/03/07
Matrix:	Soil	Received:	11/05/07
Units:	mg/Kg	Prepared:	11/07/07
Basis:	dry		

Type: MS
Lab ID: QC414276

Moisture: 6%

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac	Analyzed
Antimony	0.3231	23.96	6.972	28 *	75-125	10.00	11/09/07
Arsenic	16.97	23.96	37.67	86	75-125	10.00	11/09/07
Barium	97.00	23.96	131.0 >LR	142 NM	75-125	10.00	11/09/07
Beryllium	0.4511	23.96	21.12	86	75-125	10.00	11/09/07
Cadmium	0.07697	23.96	20.98	87	75-125	10.00	11/09/07
Chromium	58.67	23.96	77.39	78 P	75-125	10.00	11/09/07
Cobalt	21.53	23.96	44.45	96	75-125	10.00	11/09/07
Copper	47.14	23.96	68.67	90 P	75-125	10.00	11/09/07
Lead	18.57	23.96	40.34	91	75-125	10.00	11/09/07
Molybdenum	0.3238	23.96	16.83	69 *	75-125	10.00	11/09/07
Nickel	89.33	23.96	143.1	225 * P	75-125	200.0	11/08/07
Selenium	0.09455	23.96	20.86	87	75-125	10.00	11/09/07
Silver	0.09355	23.96	19.85	82	75-125	10.00	11/09/07
Thallium	0.1210	23.96	19.64	81	75-125	10.00	11/09/07
Vanadium	47.22	23.96	67.76	86 P	75-125	10.00	11/09/07
Zinc	79.27	23.96	115.5	151 * P	75-125	200.0	11/08/07

Type: MSD
Lab ID: QC414277

Moisture: 6%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
Antimony	26.33	8.063	29 *	75-125	5	30	10.00	11/09/07
Arsenic	26.33	37.68	79	75-125	6	30	10.00	11/09/07
Barium	26.33	123.1	99 P	75-125	8	30	200.0	11/08/07
Beryllium	26.33	23.19	86	75-125	0	30	10.00	11/09/07
Cadmium	26.33	23.31	88	75-125	1	30	10.00	11/09/07
Chromium	26.33	72.36	52 * P	75-125	10	30	10.00	11/09/07
Cobalt	26.33	40.67	73 *	75-125	14	30	10.00	11/09/07
Copper	26.33	64.36	65 * P	75-125	10	30	10.00	11/09/07
Lead	26.33	40.92	85	75-125	4	30	10.00	11/09/07
Molybdenum	26.33	19.12	71 *	75-125	3	30	10.00	11/09/07
Nickel	26.33	129.3	152 * P	75-125	12	30	200.0	11/08/07
Selenium	26.33	23.10	87	75-125	1	30	10.00	11/09/07
Silver	26.33	22.39	85	75-125	3	30	10.00	11/09/07
Thallium	26.33	22.23	84	75-125	3	30	10.00	11/09/07
Vanadium	26.33	63.30	61 * P	75-125	10	30	10.00	11/09/07
Zinc	26.33	106.0	101 P	75-125	11	30	200.0	11/08/07

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

80.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	131609
MSS Lab ID:	198974-004	Sampled:	11/05/07
Matrix:	Soil	Received:	11/05/07
Units:	mg/Kg	Prepared:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC414915	0.006022	0.5383	0.5954	109	75-125	14%		
MSD	QC414916		0.4689	0.5139	108	75-125	14%	1	35

RPD= Relative Percent Difference

91.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX359[4.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	198903-001	Batch#:	131284
Lab ID:	QC413594	Sampled:	11/01/07
Matrix:	Soil	Received:	11/01/07
Units:	mg/Kg	Analyzed:	11/05/07

Moisture: 16%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	2.477	0.5952	2.718	1.341	10	10
Arsenic	2.337	0.2976	2.487	1.341	NC	10
Barium	76.07	0.2976	79.44	1.341	4	10
Beryllium	0.1645	0.1190	0.1928 J	0.5363	17 *	10
Cadmium	0.02437	0.2976	ND	1.341	NC	10
Chromium	55.28	0.2976	57.47	1.341	4	10
Cobalt	7.093	0.2976	7.616	1.341	7	10
Copper	24.73	0.2976	25.16	1.341	2	10
Lead	97.52	0.2459	106.5	1.230	9	10
Molybdenum	ND	0.2976	0.2834 J	1.341	NC	10
Nickel	40.88	0.2976	43.75	1.341	7	10
Selenium	ND	0.5952	ND	1.341	NC	10
Silver	0.1544	0.2976	ND	1.341	NC	10
Thallium	ND	0.5952	ND	1.341	NC	10
Vanadium	32.59	0.2976	32.85	1.341	1	10
Zinc	99.98	1.190	104.1	5.363	4	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131359
MSS Lab ID:	198885-001	Sampled:	10/31/07
Lab ID:	QC413898	Received:	11/01/07
Matrix:	Soil	Analyzed:	11/06/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	% Diff	Lim
0.3414	0.02000	0.2651	0.08621	22 *	10

*= Value outside of QC limits; see narrative
RL= Reporting Limit

40.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	1065EX359[4.0]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131359
MSS Lab ID:	198903-001	Sampled:	11/01/07
Lab ID:	QC413901	Received:	11/01/07
Matrix:	Soil	Analyzed:	11/06/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.8125	0.02381	0.8125	0.09448	16%	0	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6020
Field ID:	ZZZZZZZZZZ	Basis:	dry
Type:	Serial Dilution	Diln Fac:	50.00
MSS Lab ID:	198975-001	Batch#:	131447
Lab ID:	QC414278	Sampled:	11/03/07
Matrix:	Soil	Received:	11/05/07
Units:	mg/Kg	Analyzed:	11/09/07

Moisture: 6%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	0.3231	0.2660	0.3392	0.2660	5	10
Arsenic	16.97	0.2660	17.64	0.3112	4	10
Barium	97.00	0.2660	101.5	0.4893	5	10
Beryllium	0.4511	0.2660	0.4703	0.2660	NC	10
Cadmium	0.07697	0.2660	0.08208 J	0.2660	NC	10
Chromium	58.67	0.2660	65.39	0.2660	11 *	10
Cobalt	21.53	0.2660	24.41	0.2660	13 *	10
Copper	47.14	0.2660	50.61	0.7009	7	10
Lead	18.57	0.2660	19.38	0.2660	4	10
Molybdenum	0.3238	0.2660	0.4244	0.2660	31 *	10
Nickel	89.33	0.2660	98.56	0.9267	10	10
Selenium	0.09455	0.2660	0.08370 J	0.2660	NC	10
Silver	0.09355	0.2660	0.09001 J	0.2660	NC	10
Thallium	0.1210	0.2660	0.07953 J	0.2660	NC	10
Vanadium	47.22	0.2660	53.04	0.2660	12 *	10
Zinc	79.27	1.330	85.05	1.518	7	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
RL= Reporting Limit

81.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131609
MSS Lab ID:	198974-004	Sampled:	11/05/07
Lab ID:	QC414914	Received:	11/05/07
Matrix:	Soil	Analyzed:	11/12/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.006022	0.02326	ND	0.1038	14%	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

90.0

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum : 87445470023
File : 110507r
IDF : 1.0
Lab ID : 198903-001
Matrix : Soil
Batch : 131284
Time : 05-NOV-2007 09:50
Cal : 87445470001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum : 87445470027
File : 110507r
IDF : 1.0
Lab ID : QC413595
Matrix : Soil
Batch : 131284
Time : 05-NOV-2007 09:59
Cal : 87445470001

MSS: 1.11 g --> 50.0 ml = 45.05 ml/g PDF
PDS: 1.11 g --> 50.0 ml = 45.05 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	95090	R	20000	114200 >LR	R	95	75-125	: >LR u
Antimony	46.19	A	2000	1890	A	92	75-125	u
Arsenic	43.58	A	1000	1044	A	100	75-125	u
Barium	1419	A	2000	3341	A	96	75-125	u
Beryllium	3.068	A	50.00	53.34	A	101	75-125	u
Cadmium	0.4545	A	200.0	192.3	A	96	75-125	u
Calcium	49590	R	20000	69300	R	99	75-125	u
Chromium	1031	A	2000	2885	A	93	75-125	u
Cobalt	132.3	A	500.0	578.0	A	89	75-125	u
Copper	461.2	A	250.0	694.4	A	93	75-125	u
Lead	1819	A	2000	3595	A	89	75-125	u
Magnesium	48540	R	20000	68360	R	99	75-125	u
Manganese	1914	A	500.0	2348	A	87	75-125	u
Molybdenum	ND	A	400.0	388.4	A	97	75-125	u
Nickel	762.4	A	500.0	1193	A	86	75-125	u
Potassium	7448	R	10000	17220	R	98	75-125	u
Selenium	ND	A	1000	958.6	A	96	75-125	u
Silver	2.879	A	200.0	189.7	A	93	75-125	u
Sodium	2517	R	20000	22020	R	98	75-125	u
Thallium	ND	A	1000	891.7	A	89	75-125	u
Vanadium	607.8	A	500.0	1077	A	94	75-125	u
Zinc	1864	A	500.0	2301	A	87	75-125	u
Boron	70.85	A	1000	1040	A	97	75-125	u
Tin	57.34	A	1000	999.0	A	94	75-125	u
Titanium	7722	A	1000	8600	A	88	75-125	: u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3586725	3295309	-8.12

:=recovery not meaningful >LR=overrange u=use

87445470027

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET16
Seqnum : 897449933133
File : k08k0133
IDF : 10.0
Lab ID : 198975-001
Matrix : Soil
Batch : 131447
Time : 09-NOV-2007 00:14
Cal : 897449933001
Units : ug/L

Type : PDS
Inst : MET16
Seqnum : 897449933137
File : k08k0137
IDF : 10.0
Lab ID : QC414279
Matrix : Soil
Batch : 131447
Time : 09-NOV-2007 00:39
Cal : 897449933001

MSS: 1.02 g --> 50.0 ml = 49.02 ml/g PDF
PDS: 1.02 g --> 50.0 ml = 49.02 ml/g PDF

PDS standards: S7477 (100X), S7478 (100X), S7605

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	0.6196	A	100.0	100.5	A	100	75-125	
Arsenic	32.55	E	100.0	128.9	E	96	75-125	
Barium	186.0	A	100.0	305.8 >LR	A	120	75-125	>LR **b***
Beryllium	0.8651	A	100.0	93.96	A	93	75-125	
Cadmium	0.1476	A	100.0	95.18	A	95	75-125	
Calcium	11830	A	10000	20910 >LR	A	91	75-125	>LR **b***
Chromium	112.5	E	100.0	199.7	E	87	75-125	
Cobalt	41.29	E	100.0	128.9	E	88	75-125	
Copper	90.40	E	100.0	181.2	E	91	75-125	
Lead	35.61	A	100.0	134.7	A	99	75-125	
Molybdenum	0.6210	A	100.0	82.23	A	82	75-125	
Nickel	171.3	E	100.0	254.8 >LR	E	84	75-125	>LR **b***
Potassium	2069	A	10000	11130	A	91	75-125	
Selenium	0.1813	H	100.0	95.87	H	96	75-125	
Silver	0.1794	A	100.0	99.86	A	100	75-125	
Sodium	367.6	E	10000	9501	E	91	75-125	
Thallium	0.2320	A	50.00	50.02	A	100	75-125	
Vanadium	90.54	E	100.0	180.8	E	90	75-125	
Zinc	152.0	E	100.0	240.1 >LR	E	88	75-125	>LR **b***

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	PDS Abund	%Drift
Lithium	A	1877049	1701312	-9.36
Scandium	A	2317968	2543814	9.74
Scandium	E	30178	34234	13.44
Germanium	H	249754	249070	-0.27
Germanium	E	31707	32371	2.09
Indium	A	3924878	3736042	-4.81
Bismuth	A	4696149	4315332	-8.11
Yttrium	A	3559300	4036708	13.41
Terbium	A	6364815	6309466	-0.87

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET16
Seqnum : 897449933066
File : k08k0066
IDF : 200.0
Lab ID : 198975-001
Matrix : Soil
Batch : 131447
Time : 08-NOV-2007 17:36
Cal : 897449933001
Units : ug/L

Type : PDS
Inst : MET16
Seqnum : 897449933070
File : k08k0070
IDF : 200.0
Lab ID : QC414279
Matrix : Soil
Batch : 131447
Time : 08-NOV-2007 18:00
Cal : 897449933001

MSS: 1.02 g --> 50.0 ml = 49.02 ml/g PDF
PDS: 1.02 g --> 50.0 ml = 49.02 ml/g PDF

PDS standards: S7477 (100X), S7478 (100X), S7605

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	1924	A	10000	11620	A	97	75-125	u
Antimony	0.06360	A	100.0	95.10	A	95	75-125	u
Arsenic	1.621	E	100.0	99.20	E	98	75-125	u
Barium	9.550	A	100.0	108.3	A	99	75-125	u
Beryllium	0.06095	A	100.0	91.50	A	91	75-125	u
Cadmium	0.02413	A	100.0	96.50	A	96	75-125	u
Calcium	652.0	A	10000	10500	A	98	75-125	u
Chromium	30.09	E	100.0	102.0	E	**72***	75-125	u
Cobalt	2.579	E	100.0	98.70	E	96	75-125	u
Copper	6.585	E	100.0	100.8	E	94	75-125	u
Iron	4128	H	10000	13410	H	93	75-125	u
Lead	1.880	A	100.0	99.75	A	98	75-125	u
Magnesium	1734	A	10000	11400	A	97	75-125	u
Manganese	65.75	E	100.0	159.2	E	93	75-125	u
Molybdenum	0.4007	A	100.0	91.05	A	91	75-125	u
Nickel	40.54	E	100.0	107.3	E	**67***	75-125	u
Potassium	132.2	A	10000	9970	A	98	75-125	u
Selenium	ND	H	100.0	97.10	H	97	75-125	u
Silver	0.02511	A	100.0	99.30	A	99	75-125	u
Sodium	27.34	E	10000	10110	E	101	75-125	u
Thallium	0.02769	A	50.00	49.25	A	98	75-125	u
Vanadium	5.175	E	100.0	102.0	E	97	75-125	u
Zinc	8.550	E	100.0	103.6	E	95	75-125	u

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	PDS Abund	%Drift
Lithium	A	1877049	1970760	4.99
Scandium	A	2317968	2524861	8.93
Scandium	E	30178	34098	12.99
Scandium	H	874916	988431	12.97
Germanium	H	249754	266914	6.87
Germanium	E	31707	34540	8.94
Indium	A	3924878	4028382	2.64
Bismuth	A	4696149	4641968	-1.15
Yttrium	A	3559300	3842083	7.94
Terbium	A	6364815	6662454	4.68

u=use

897449933070

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET16
Seqnum : 897451405023
File : k0910023
IDF : 20.0
Lab ID : 198975-001
Matrix : Soil
Batch : 131447
Time : 09-NOV-2007 13:41
Cal : 897451405001
Units : ug/L

Type : PDS
Inst : MET16
Seqnum : 897451405024
File : k0910024
IDF : 20.0
Lab ID : QC414279
Matrix : Soil
Batch : 131447
Time : 09-NOV-2007 13:47
Cal : 897451405001

MSS: 1.02 g --> 50.0 ml = 49.02 ml/g PDF
PDS: 1.02 g --> 50.0 ml = 49.02 ml/g PDF

PDS standards: S7477 (100X), S7478 (100X), S7605

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	18320	A	10000	28370 >LR	A	101	75-125	>LR **b***
Antimony	0.3450	A	100.0	103.0	A	103	75-125	
Arsenic	16.25	E	100.0	117.2	E	101	75-125	
Barium	95.80	A	100.0	203.7 >LR	A	108	75-125	>LR **b***
Beryllium	0.5210	A	100.0	110.5	A	110	75-125	
Cadmium	0.06665	A	100.0	102.0	A	102	75-125	
Calcium	6435	A	10000	16290	A	99	75-125	
Chromium	55.85	E	100.0	158.8	E	103	75-125	
Cobalt	20.84	E	100.0	119.5	E	99	75-125	
Copper	47.08	E	100.0	147.3	E	100	75-125	
Lead	18.97	A	100.0	123.7	A	105	75-125	
Magnesium	16460	A	10000	26320 >LR	A	99	75-125	>LR **b***
Molybdenum	0.4228	A	100.0	91.90	A	91	75-125	
Nickel	87.30	E	100.0	190.7	E	103	75-125	
Potassium	1114	A	10000	10880	A	98	75-125	
Selenium	0.1035	H	100.0	94.80	H	95	75-125	
Silver	0.09800	A	100.0	106.0	A	106	75-125	
Sodium	198.1	E	10000	10030	E	98	75-125	
Thallium	0.1302	A	50.00	52.25	A	104	75-125	
Vanadium	45.37	E	100.0	147.6	E	102	75-125	
Zinc	78.95	E	100.0	177.4	E	98	75-125	

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	PDS Abund	%Drift
Lithium	A	1707263	1617499	-5.26
Scandium	A	2076861	2197006	5.78
Scandium	E	25151	26596	5.74
Germanium	H	203011	203377	0.18
Germanium	E	27071	27473	1.48
Indium	A	3654483	3423812	-6.31
Bismuth	A	4282931	3929990	-8.24
Yttrium	A	3314551	3494872	5.44
Terbium	A	5827278	5649880	-3.04

>LR=overrange b=noncompliant

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87445470001
Units : ug/L

Date : 05-NOV-2007 08:30
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110507r	87445470002	CRIM08	05-NOV-2007 08:34	S7555
L2	110507r	87445470003	CS100	05-NOV-2007 08:3[illegible]	S7382
L3	110507r	87445470004	CS1K	05-NOV-2007 08:41	S7381
L4	110507r	87445470005	CS10K	05-NOV-2007 08:44	S7383
L5	110507r	87445470006	CS100K	05-NOV-2007 08:47	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	27.338	29.077	29.102	30.164		LOR0	0.00000	0.03316		28.920	1.000	0.995	
Arsenic	A	15.607	18.554	18.182	18.092		LOR0	0.00000	0.05527		17.609	1.000	0.995	
Barium	A	444.99	445.48	433.51	424.08		LOR0	0.00000	0.00236		437.01	1.000	0.995	
Beryllium	A	3137.0	3067.0	3040.6			LOR0	0.00000	3.29E-4		3081.5	1.000	0.995	
Boron	A	148.03		149.51	157.11		LOR0	0.00000	0.00637		151.55	1.000	0.995	
Cadmium	A	215.11	220.76	219.41	215.65		LOR0	0.00000	0.00464		217.73	1.000	0.995	
Chromium	A	67.933	67.985	66.570	66.766		LOR0	0.00000	0.01498		67.314	1.000	0.995	
Cobalt	A	113.74	112.40	116.36	116.04		LOR0	0.00000	0.00862		114.64	1.000	0.995	
Copper	A	411.40	404.69	406.43	408.24		LOR0	0.00000	0.00245		407.69	1.000	0.995	
Lead	A	37.464	43.094	43.131	42.841		LOR0	0.00000	0.02334		41.632	1.000	0.995	
Manganese	A	1366.4	1366.2	1324.9	1273.7		LOR0	0.00000	7.85E-4		1332.8	1.000	0.995	
Molybdenum	A	38.010	37.756	36.579	36.887		LOR0	0.00000	0.02711		37.308	1.000	0.995	
Nickel	A	37.818	37.533	38.799	38.721		LOR0	0.00000	0.02583		38.218	1.000	0.995	
Selenium	A	26.794	27.732	27.253	28.741		LOR0	0.00000	0.03481		27.630	1.000	0.995	
Silver	A	381.77	475.31	468.31	480.10		LOR0	0.00000	0.00209		451.37	1.000	0.995	
Thallium	A	17.092	18.165	17.837	17.589		LOR0	0.00000	0.05685		17.671	1.000	0.995	
Tin	A	22.262	22.463	22.224	23.750		LOR0	0.00000	0.04213		22.675	1.000	0.995	
Titanium	A	1183.5	1237.5	1203.8	1178.5		LOR0	0.00000	8.48E-4		1200.8	1.000	0.995	
Vanadium	A	105.01	107.22	105.78	107.88		LOR0	0.00000	0.00927		106.47	1.000	0.995	
Zinc	A	139.75	85.167	79.333	80.262		LOR0	0.00000	0.01246		96.127	1.000	0.995	
Aluminum	R	1.5039		1.4330	1.3730	1.4485	LOR0	0.00000	0.69072		1.4396	1.000	0.995	
Calcium	R	15.868		15.862	14.885	15.745	LOR0	0.00000	0.06355		15.590	1.000	0.995	
Iron	R	13.279		12.948	12.112	12.926	LOR0	0.00000	0.07741		12.816	1.000	0.995	
Magnesium	R	2.1976		2.1822	2.0190	2.1327	LOR0	0.00000	0.46914		2.1329	1.000	0.995	
Potassium	R	4.3320		4.9462	4.5705	5.0277	LOR0	0.00000	0.19908		4.7191	1.000	0.995	
Sodium	R	11.147		11.472	10.734	11.253	LOR0	0.00000	0.08891		11.151	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-9	100.0	-4	1000	-3	10000	0		
Arsenic	A	5.000	-14	100.0	3	1000	0	10000	0		
Barium	A	5.000	5	100.0	5	1000	2	10000	0		
Beryllium	A	2.000	3	100.0	1	1000	0				
Boron	A	100.0	-6			1000	-5	10000	0		
Cadmium	A	5.000	0	100.0	2	1000	2	10000	0		
Chromium	A	5.000	2	100.0	2	1000	0	10000	0		
Cobalt	A	5.000	-2	100.0	-3	1000	0	10000	0		
Copper	A	5.000	1	100.0	-1	1000	0	10000	0		
Lead	A	3.000	-13	100.0	1	1000	1	10000	0		
Manganese	A	5.000	7	100.0	7	1000	4	10000	0		
Molybdenum	A	5.000	3	100.0	2	1000	-1	10000	0		
Nickel	A	5.000	-2	100.0	-3	1000	0	10000	0		
Selenium	A	5.000	-7	100.0	-3	1000	-5	10000	0		
Silver	A	5.000	-20	100.0	-1	1000	-2	2000	0		
Thallium	A	5.000	-3	100.0	3	1000	1	10000	0		
Tin	A	40.00	-6	100.0	-5	1000	-6	10000	0		
Titanium	A	10.00	0	100.0	5	1000	2	10000	0		
Vanadium	A	5.000	-3	100.0	-1	1000	-2	10000	0		
Zinc	A	20.00	74	100.0	6	1000	-1	10000	0		
Aluminum	R	100.0	4			1000	-1	10000	-5	100000	0
Calcium	R	200.0	1			1000	1	10000	-5	100000	0
Iron	R	100.0	3			1000	0	10000	-6	100000	0
Magnesium	R	200.0	3			1000	2	10000	-5	100000	0
Potassium	R	500.0	-14			1000	-2	10000	-9	100000	0
Sodium	R	500.0	-1			1000	2	10000	-5	100000	0

SGS

nstrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/5/2007 8:30:41 AM
Data Type: Reprocessed on 11/5/2007 9:05:49 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1968.2	82.60	4.20%	[0.00]	ug/L
Al 308.215 R	-226.5	1.34	0.59%	[0.00]	ug/L
As 188.979	-52.0	11.60	22.32%	[0.00]	ug/L
B 249.677	192.9	28.39	14.72%	[0.00]	ug/L
Ba 233.527	3.0	2.55	85.07%	[0.00]	ug/L
Be 313.107	-909.5	110.68	12.17%	[0.00]	ug/L
Ca 315.887 R	467.0	29.25	6.26%	[0.00]	ug/L
Cd 214.440	65.0	7.11	10.93%	[0.00]	ug/L
Co 228.616	-408.4	9.09	2.23%	[0.00]	ug/L
Cr 267.716	-85.0	5.16	6.07%	[0.00]	ug/L
Cu 324.752	3703.1	31.86	0.86%	[0.00]	ug/L
Fe 238.204 R	142.3	6.90	4.85%	[0.00]	ug/L
K 766.490 R	207.8	216.60	104.25%	[0.00]	ug/L
Mg 279.077 R	18.9	3.77	19.89%	[0.00]	ug/L
Mn 257.610	439.3	9.25	2.11%	[0.00]	ug/L
Mo 202.031	-12.9	4.08	31.65%	[0.00]	ug/L
Na 589.592 R	-2941.4	97.34	3.31%	[0.00]	ug/L
Ni 231.604	-300.4	5.08	1.69%	[0.00]	ug/L
Pb 220.353	206.1	50.17	24.34%	[0.00]	ug/L
Sb 206.836	117.6	7.64	6.49%	[0.00]	ug/L
Se 196.026	-3.6	35.80	>999.9%	[0.00]	ug/L
Ti 334.940 R	146.5	101.82	69.52%	[0.00]	ug/L
Tl 190.801	-34.0	10.61	31.20%	[0.00]	ug/L
V 292.402	-154.3	8.87	5.75%	[0.00]	ug/L
Zn 206.200	693.1	3.64	0.52%	[0.00]	ug/L
Sn 189.927	-9.3	6.42	69.33%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/5/2007 8:34:39 AM
Data Type: Reprocessed on 11/5/2007 9:05:50 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3586724.6	32676.81	0.91%	100.0	%
Y	285603.0	469.96	0.16%	100.0	%
Ag 328.068†	1908.9	267.25	14.00%	[5.0]	ug/L
Al 308.215 R†	150.4	3.83	2.55%	[100]	ug/L
As 188.979†	78.0	21.41	27.44%	[5.0]	ug/L
B 249.677†	14803.2	391.88	2.65%	[100]	ug/L
Ba 233.527†	2225.0	21.94	0.99%	[5.0]	ug/L
Be 313.107†	6273.9	84.25	1.34%	[2.0]	ug/L
Ca 315.887 R†	3173.5	30.82	0.97%	[200]	ug/L
Cd 214.440†	1075.5	7.88	0.73%	[5.0]	ug/L
Co 228.616†	568.7	8.26	1.45%	[5.0]	ug/L
Cr 267.716†	339.7	9.31	2.74%	[5.0]	ug/L
Cu 324.752†	2057.0	109.98	5.35%	[5.0]	ug/L
Fe 238.204 R†	1327.9	8.77	0.66%	[100]	ug/L
K 766.490 R†	2166.0	232.69	10.74%	[500]	ug/L
Mg 279.077 R†	439.5	3.27	0.74%	[200]	ug/L
Mn 257.610†	6831.9	37.63	0.55%	[5.0]	ug/L
Mo 202.031†	190.0	1.62	0.85%	[5.0]	ug/L
Na 589.592 R†	5573.3	111.58	2.00%	[500]	ug/L
Ni 231.604†	189.1	3.46	1.83%	[5.0]	ug/L
Pb 220.353†	112.4	15.61	13.89%	[3.0]	ug/L
Sb 206.836†	136.7	26.29	19.23%	[5.0]	ug/L
Se 196.026†	134.0	49.53	36.97%	[5.0]	ug/L
Ti 334.940 R†	11835.1	94.79	0.80%	[10]	ug/L
Tl 190.801†	85.5	22.05	25.80%	[5.0]	ug/L
V 292.402†	525.0	5.53	1.05%	[5.0]	ug/L
Zn 206.200†	2794.9	23.33	0.83%	[20]	ug/L
Sn 189.927†	890.5	6.77	0.76%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/5/2007 8:38:48 AM
Data Type: Reprocessed on 11/5/2007 9:05:51 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3549550.7	50433.24	1.42%	98.96	%
Y	284757.7	5121.70	1.80%	99.70	%
Ag 328.068†	47530.7	801.87	1.69%	[100]	ug/L
As 188.979†	1855.4	13.89	0.75%	[100]	ug/L
Ba 233.527†	44548.0	1175.02	2.64%	[100]	ug/L
Be 313.107†	306700.2	814.32	0.27%	[100]	ug/L
Cd 214.440†	22076.2	460.42	2.09%	[100]	ug/L
Co 228.616†	11240.3	147.20	1.31%	[100]	ug/L
Cr 267.716†	6798.5	198.85	2.92%	[100]	ug/L
Cu 324.752†	40469.2	989.96	2.45%	[100]	ug/L
Mn 257.610†	136622.6	3286.45	2.41%	[100]	ug/L
Mo 202.031†	3775.6	37.63	1.00%	[100]	ug/L
Ni 231.604†	3753.3	52.77	1.41%	[100]	ug/L
Pb 220.353†	4309.4	130.06	3.02%	[100]	ug/L
Sb 206.836†	2907.7	37.56	1.29%	[100]	ug/L
Se 196.026†	2773.2	34.68	1.25%	[100]	ug/L
Ti 334.940 R†	123749.5	2731.84	2.21%	[100]	ug/L
Tl 190.801†	1816.5	23.60	1.30%	[100]	ug/L
V 292.402†	10721.8	196.70	1.83%	[100]	ug/L
Zn 206.200†	8516.7	134.00	1.57%	[100]	ug/L
Sn 189.927†	2246.3	29.97	1.33%	[100]	ug/L

Sequence No.: 4 Autosampler Location: 4
Sample ID: ICAL,CS1K Date Collected: 11/5/2007 8:41:45 AM
Analyst: Data Type: Reprocessed on 11/5/2007 9:05:52 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3595087.2	67252.46	1.87%	100.2	%
Y	282014.8	514.53	0.18%	98.74	%
Ag 328.068†	468308.9	6264.33	1.34%	[1000]	ug/L
Al 308.215 R†	1433.0	14.92	1.04%	[1000]	ug/L
As 188.979†	18182.5	323.82	1.78%	[1000]	ug/L
B 249.677†	149514.1	2894.64	1.94%	[1000]	ug/L
Ba 233.527†	433509.1	7282.38	1.68%	[1000]	ug/L
Be 313.107†	3040611.4	15251.55	0.50%	[1000]	ug/L
Ca 315.887 R†	15861.7	192.75	1.22%	[1000]	ug/L
Cd 214.440†	219405.1	3007.58	1.37%	[1000]	ug/L
Co 228.616†	116363.0	1839.96	1.58%	[1000]	ug/L
Cr 267.716†	66570.3	948.36	1.42%	[1000]	ug/L
Cu 324.752†	406433.6	6579.96	1.62%	[1000]	ug/L
Fe 238.204 R†	12948.4	226.80	1.75%	[1000]	ug/L
K 766.490 R†	4946.2	243.18	4.92%	[1000]	ug/L
Mg 279.077 R†	2182.2	45.41	2.08%	[1000]	ug/L
Mn 257.610†	1324886.7	3157.13	0.24%	[1000]	ug/L
Mo 202.031†	36578.7	796.28	2.18%	[1000]	ug/L
Na 589.592 R†	11472.3	271.64	2.37%	[1000]	ug/L
Ni 231.604†	38799.4	625.94	1.61%	[1000]	ug/L
Pb 220.353†	43130.8	987.86	2.29%	[1000]	ug/L
Sb 206.836†	29101.8	645.26	2.22%	[1000]	ug/L
Se 196.026†	27252.8	599.79	2.20%	[1000]	ug/L
Ti 334.940 R†	1203823.3	2850.32	0.24%	[1000]	ug/L
Tl 190.801†	17836.7	366.72	2.06%	[1000]	ug/L
V 292.402†	105779.1	1657.64	1.57%	[1000]	ug/L
Zn 206.200†	79332.6	1247.19	1.57%	[1000]	ug/L
Sn 189.927†	22224.2	438.66	1.97%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/5/2007 8:44:45 AM
Data Type: Reprocessed on 11/5/2007 9:05:53 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3423303.8	34809.17	1.02%	95.44	%
Y	289571.1	3655.35	1.26%	101.4	%
Ag 328.068†	960202.1	11729.05	1.22%	[2000]	ug/L
Al 308.215 R†	13729.7	265.60	1.93%	[10000]	ug/L
As 188.979†	180916.8	2076.77	1.15%	[10000]	ug/L
B 249.677†	1571106.8	17358.31	1.10%	[10000]	ug/L
Ba 233.527†	4240772.3	28031.59	0.66%	[10000]	ug/L
Ca 315.887 R†	148850.8	1718.62	1.15%	[10000]	ug/L
Cd 214.440†	2156489.9	20115.36	0.93%	[10000]	ug/L
Co 228.616†	1160355.7	10217.83	0.88%	[10000]	ug/L
Cr 267.716†	667664.0	7107.47	1.06%	[10000]	ug/L
Cu 324.752†	4082408.4	33584.12	0.82%	[10000]	ug/L
Fe 238.204 R†	121118.4	1339.53	1.11%	[10000]	ug/L
K 766.490 R†	45705.3	478.29	1.05%	[10000]	ug/L
Mg 279.077 R†	20189.5	160.28	0.79%	[10000]	ug/L
Mn 257.610†	12736893.1	101913.12	0.80%	[10000]	ug/L
Mo 202.031†	368874.5	4082.90	1.11%	[10000]	ug/L
Na 589.592 R†	107336.2	1586.56	1.48%	[10000]	ug/L
Ni 231.604†	387208.0	3298.87	0.85%	[10000]	ug/L
Pb 220.353†	428409.2	6836.61	1.60%	[10000]	ug/L
Sb 206.836†	301636.4	3321.50	1.10%	[10000]	ug/L
Se 196.026†	787413.5	5376.89	1.87%	[10000]	ug/L
Ti 334.940 R†	11784942.7	107735.64	0.91%	[10000]	ug/L
Tl 190.801†	175889.8	2809.94	1.60%	[10000]	ug/L
V 292.402†	1078829.0	9814.83	0.91%	[10000]	ug/L
Zn 206.200†	802616.5	5393.03	0.67%	[10000]	ug/L
Sn 189.927†	237496.4	2171.64	0.91%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/5/2007 8:47:48 AM
Data Type: Reprocessed on 11/5/2007 9:05:53 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	135.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3141368.4	8596.73	0.27%	87.58	%
Y	259629.0	3094.73	1.19%	90.91	%
Al 308.215 R†	144851.8	62.98	0.04%	[100000]	ug/L
Ca 315.887 R†	1574462.6	5609.80	0.36%	[100000]	ug/L
Fe 238.204 R†	1292631.3	3031.83	0.23%	[100000]	ug/L
K 766.490 R†	502769.2	479.11	0.10%	[100000]	ug/L
Mg 279.077 R†	213270.2	1249.99	0.59%	[100000]	ug/L
Na 589.592 R†	1125262.1	1747.26	0.16%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	477.7	0.00000	0.999951	
Al 308.215 R	4	Lin Thru 0	0.0	1.448	0.00000	0.999987	
As 188.979	4	Lin Thru 0	0.0	18.09	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	157.0	0.00000	0.999988	
Ba 233.527	4	Lin Thru 0	0.0	424.2	0.00000	0.999997	
Be 313.107	3	Lin Thru 0	0.0	3041	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	15.74	0.00000	0.999985	
Cd 214.440	4	Lin Thru 0	0.0	215.7	0.00000	0.999998	
Co 228.616	4	Lin Thru 0	0.0	116.0	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	66.76	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	408.2	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	12.92	0.00000	0.999981	
K 766.490 R	4	Lin Thru 0	0.0	5.023	0.00000	0.999959	
Mg 279.077 R	4	Lin Thru 0	0.0	2.132	0.00000	0.999986	
Mn 257.610	4	Lin Thru 0	0.0	1274	0.00000	0.999992	
Mo 202.031	4	Lin Thru 0	0.0	36.88	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	11.25	0.00000	0.999990	
Ni 231.604	4	Lin Thru 0	0.0	38.72	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	42.84	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	30.15	0.00000	0.999994	
Se 196.026	4	Lin Thru 0	0.0	28.73	0.00000	0.999987	
Ti 334.940 R	4	Lin Thru 0	0.0	1179	0.00000	0.999998	
Tl 190.801	4	Lin Thru 0	0.0	17.59	0.00000	0.999999	
V 292.402	4	Lin Thru 0	0.0	107.9	0.00000	0.999998	
Zn 206.200	4	Lin Thru 0	0.0	80.25	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	23.73	0.00000	0.999980	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470007 File : 110507r Time : 05-NOV-2007 08:53
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	28.920	30.166	5000	5002	ug/L	0	10	
Arsenic	A	17.609	19.267	5000	5325	ug/L	6	10	
Barium	A	437.01	439.59	5000	5182	ug/L	4	10	
Beryllium	A	3081.5	3171.8	500.0	521.5	ug/L	4	10	
Boron	A	151.55	162.40	5000	5171	ug/L	3	10	
Cadmium	A	217.73	219.39	5000	5086	ug/L	2	10	
Chromium	A	67.314	65.705	5000	4921	ug/L	-2	10	
Cobalt	A	114.64	113.65	5000	4887	ug/L	-2	10	
Copper	A	407.69	403.45	5000	4942	ug/L	-1	10	
Lead	A	41.632	42.327	5000	4940	ug/L	-1	10	
Manganese	A	1332.8	1297.8	5000	5093	ug/L	2	10	
Molybdenum	A	37.308	37.046	5000	5022	ug/L	0	10	
Nickel	A	38.218	38.288	5000	4944	ug/L	-1	10	
Selenium	A	27.630	28.665	5000	4989	ug/L	0	10	
Silver	A	451.37	464.15	1000	971.6	ug/L	-3	10	
Thallium	A	17.671	17.549	5000	4988	ug/L	0	10	
Tin	A	22.675	23.185	5000	4884	ug/L	-2	10	
Titanium	A	1200.8	1196.1	5000	5074	ug/L	1	10	
Vanadium	A	106.47	107.93	5000	5003	ug/L	0	10	
Zinc	A	96.127	79.634	5000	4961	ug/L	-1	10	
Aluminum	R	1.4396	1.3330	20000	18420	ug/L	-8	10	
Calcium	R	15.590	14.854	20000	18880	ug/L	-6	10	
Iron	R	12.816	12.178	20000	18850	ug/L	-6	10	
Magnesium	R	2.1329	2.0478	20000	19210	ug/L	-4	10	
Potassium	R	4.7191	4.6124	20000	18360	ug/L	-8	10	
Sodium	R	11.151	10.694	20000	19020	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3375490	-5.89

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470008 File : 110507r Time : 05-NOV-2007 08:56
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1459]	2.000	0.1170	ug/L	!ib
Boron	A	[41.34]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	[1.257]	3.000	1.150	ug/L	!ib
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[3.223]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3507963	-2.20

!=warning ib=instrument blank

87445470008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470009 File : 110507r Time : 05-NOV-2007 09:01
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[0.8441]	5.000	ug/L	
Arsenic	A	[2.464]	5.000	ug/L	
Barium	A	[0.1914]	5.000	ug/L	
Beryllium	A	[-0.5200]	2.000	ug/L	
Boron	A	[19.54]	100.0	ug/L	
Cadmium	A	[-2.922]	5.000	ug/L	
Cobalt	A	[-1.157]	5.000	ug/L	
Lead	A	[0.8304]	3.000	ug/L	
Molybdenum	A	[-1.152]	5.000	ug/L	
Selenium	A	6.043	5.000	ug/L	
Silver	A	[-1.383]	5.000	ug/L	
Thallium	A	[-8.978]	5.000	ug/L	
Tin	A	[-10.04]	40.00	ug/L	
Zinc	A	[-2.320]	20.00	ug/L	
Potassium	R	[29.31]	500.0	ug/L	
Sodium	R	[47.36]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18700	ug/L	93
Copper	A	20000	19630	ug/L	98
Manganese	A	20000	17940	ug/L	90
Nickel	A	20000	17020	ug/L	85
Titanium	A	20000	19410	ug/L	97
Vanadium	A	20000	19570	ug/L	98
Aluminum	R	500000	531700	ug/L	106
Calcium	R	500000	511700	ug/L	102
Iron	R	200000	198200	ug/L	99
Magnesium	R	500000	518400	ug/L	104

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2933971	-18.20

87445470009

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470010 File : 110507r Time : 05-NOV-2007 09:07
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	558.5	ug/L	12	20	
Arsenic	A	500.0	563.1	ug/L	13	20	
Barium	A	500.0	533.1	ug/L	7	20	
Beryllium	A	500.0	545.0	ug/L	9	20	
Cadmium	A	1000	979.7	ug/L	-2	20	
Chromium	A	500.0	496.0	ug/L	-1	20	
Cobalt	A	500.0	443.8	ug/L	-11	20	
Copper	A	500.0	507.1	ug/L	1	20	
Lead	A	1000	933.0	ug/L	-7	20	
Manganese	A	500.0	463.6	ug/L	-7	20	
Molybdenum	A	500.0	509.2	ug/L	2	20	
Nickel	A	1000	907.1	ug/L	-9	20	
Selenium	A	500.0	511.9	ug/L	2	20	
Silver	A	1000	1071	ug/L	7	20	
Thallium	A	500.0	435.7	ug/L	-13	20	
Titanium	A	20000	20220	ug/L	1		
Vanadium	A	500.0	534.8	ug/L	7	20	
Zinc	A	1000	1000	ug/L	0	20	
Aluminum	R	500000	486900	ug/L	-3		
Calcium	R	500000	472500	ug/L	-5		
Iron	R	200000	183700	ug/L	-8		
Magnesium	R	500000	477400	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2859972	-20.26

87445470010

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470014 File : 110507r Time : 05-NOV-2007 09:19
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.9	ug/L	12	20	
Arsenic	A	500.0	551.2	ug/L	10	20	
Barium	A	500.0	527.2	ug/L	5	20	
Beryllium	A	500.0	538.9	ug/L	8	20	
Cadmium	A	1000	965.2	ug/L	-3	20	
Chromium	A	500.0	490.3	ug/L	-2	20	
Cobalt	A	500.0	441.9	ug/L	-12	20	
Copper	A	500.0	497.4	ug/L	-1	20	
Lead	A	1000	931.1	ug/L	-7	20	
Manganese	A	500.0	458.0	ug/L	-8	20	
Molybdenum	A	500.0	504.8	ug/L	1	20	
Nickel	A	1000	898.0	ug/L	-10	20	
Selenium	A	500.0	494.8	ug/L	-1	20	
Silver	A	1000	1057	ug/L	6	20	
Thallium	A	500.0	439.5	ug/L	-12	20	
Titanium	A	20000	19900	ug/L	0		
Vanadium	A	500.0	526.2	ug/L	5	20	
Zinc	A	1000	986.3	ug/L	-1	20	
Aluminum	R	500000	496800	ug/L	-1		
Calcium	R	500000	480800	ug/L	-4		
Iron	R	200000	184700	ug/L	-8		
Magnesium	R	500000	484900	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2904630	-19.02

87445470014

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470020 File : 110507r Time : 05-NOV-2007 09:39
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	29.746	5000	4932	ug/L	-1	10	
Arsenic	A	17.609	18.938	5000	5234	ug/L	5	10	
Barium	A	437.01	440.28	5000	5190	ug/L	4	10	
Beryllium	A	3081.5	3183.6	500.0	523.5	ug/L	5	10	
Boron	A	151.55	159.43	5000	5076	ug/L	2	10	
Cadmium	A	217.73	219.46	5000	5088	ug/L	2	10	
Chromium	A	67.314	65.775	5000	4926	ug/L	-1	10	
Cobalt	A	114.64	113.77	5000	4892	ug/L	-2	10	
Copper	A	407.69	403.56	5000	4943	ug/L	-1	10	
Lead	A	41.632	41.641	5000	4860	ug/L	-3	10	
Manganese	A	1332.8	1299.5	5000	5099	ug/L	2	10	
Molybdenum	A	37.308	36.932	5000	5006	ug/L	0	10	
Nickel	A	38.218	38.271	5000	4942	ug/L	-1	10	
Selenium	A	27.630	28.065	5000	4885	ug/L	-2	10	
Silver	A	451.37	464.01	1000	971.3	ug/L	-3	10	
Thallium	A	17.671	17.062	5000	4849	ug/L	-3	10	
Tin	A	22.675	23.088	5000	4864	ug/L	-3	10	
Titanium	A	1200.8	1197.9	5000	5081	ug/L	2	10	
Vanadium	A	106.47	107.94	5000	5004	ug/L	0	10	
Zinc	A	96.127	79.397	5000	4947	ug/L	-1	10	
Aluminum	R	1.4396	1.4456	20000	19970	ug/L	0	10	
Calcium	R	15.590	16.102	20000	20460	ug/L	2	10	
Iron	R	12.816	13.214	20000	20460	ug/L	2	10	
Magnesium	R	2.1329	2.2151	20000	20780	ug/L	4	10	
Potassium	R	4.7191	4.9170	20000	19580	ug/L	-2	10	
Sodium	R	11.151	11.378	20000	20230	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3325086	-7.29

87445470020

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470022 File : 110507r Time : 05-NOV-2007 09:46
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1510]	2.000	0.1170	ug/L	!ib
Boron	A	[15.98]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.475]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	[2.268]	5.000	1.986	ug/L	!ib
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3518823	-1.89

!=warning ib=instrument blank

87445470022

00436

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470034 File : 110507r Time : 05-NOV-2007 10:17
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.091	5000	4990	ug/L	0	10	
Arsenic	A	17.609	19.214	5000	5310	ug/L	6	10	
Barium	A	437.01	443.07	5000	5223	ug/L	4	10	
Beryllium	A	3081.5	3184.3	500.0	523.6	ug/L	5	10	
Boron	A	151.55	161.36	5000	5138	ug/L	3	10	
Cadmium	A	217.73	221.18	5000	5127	ug/L	3	10	
Chromium	A	67.314	66.168	5000	4955	ug/L	-1	10	
Cobalt	A	114.64	114.44	5000	4921	ug/L	-2	10	
Copper	A	407.69	405.50	5000	4967	ug/L	-1	10	
Lead	A	41.632	42.215	5000	4927	ug/L	-1	10	
Manganese	A	1332.8	1306.5	5000	5127	ug/L	3	10	
Molybdenum	A	37.308	37.273	5000	5053	ug/L	1	10	
Nickel	A	38.218	38.675	5000	4994	ug/L	0	10	
Selenium	A	27.630	28.567	5000	4972	ug/L	-1	10	
Silver	A	451.37	466.49	1000	976.5	ug/L	-2	10	
Thallium	A	17.671	17.330	5000	4926	ug/L	-1	10	
Tin	A	22.675	23.368	5000	4923	ug/L	-2	10	
Titanium	A	1200.8	1203.0	5000	5103	ug/L	2	10	
Vanadium	A	106.47	108.66	5000	5037	ug/L	1	10	
Zinc	A	96.127	80.217	5000	4998	ug/L	0	10	
Aluminum	R	1.4396	1.4161	20000	19560	ug/L	-2	10	
Calcium	R	15.590	15.798	20000	20080	ug/L	0	10	
Iron	R	12.816	12.973	20000	20090	ug/L	0	10	
Magnesium	R	2.1329	2.1666	20000	20330	ug/L	2	10	
Potassium	R	4.7191	4.8161	20000	19180	ug/L	-4	10	
Sodium	R	11.151	10.979	20000	19520	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3341134	-6.85

87445470034

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470036 File : 110507r Time : 05-NOV-2007 10:24
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1339]	2.000	0.1170	ug/L	!ib
Boron	A	[16.67]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3563597	-0.64

!=warning ib=instrument blank

87445470036

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470048 File : 110507r Time : 05-NOV-2007 11:03
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.037	5000	4981	ug/L	0	10	
Arsenic	A	17.609	19.079	5000	5273	ug/L	5	10	
Barium	A	437.01	445.38	5000	5250	ug/L	5	10	
Beryllium	A	3081.5	3190.2	500.0	524.5	ug/L	5	10	
Boron	A	151.55	163.33	5000	5200	ug/L	4	10	
Cadmium	A	217.73	223.84	5000	5189	ug/L	4	10	
Chromium	A	67.314	66.605	5000	4988	ug/L	0	10	
Cobalt	A	114.64	115.51	5000	4967	ug/L	-1	10	
Copper	A	407.69	411.15	5000	5036	ug/L	1	10	
Lead	A	41.632	42.397	5000	4948	ug/L	-1	10	
Manganese	A	1332.8	1313.4	5000	5154	ug/L	3	10	
Molybdenum	A	37.308	37.629	5000	5101	ug/L	2	10	
Nickel	A	38.218	39.118	5000	5051	ug/L	1	10	
Selenium	A	27.630	28.518	5000	4964	ug/L	-1	10	
Silver	A	451.37	471.17	1000	986.2	ug/L	-1	10	
Thallium	A	17.671	17.218	5000	4894	ug/L	-2	10	
Tin	A	22.675	23.707	5000	4994	ug/L	0	10	
Titanium	A	1200.8	1208.6	5000	5126	ug/L	3	10	
Vanadium	A	106.47	109.62	5000	5082	ug/L	2	10	
Zinc	A	96.127	81.528	5000	5079	ug/L	2	10	
Aluminum	R	1.4396	1.4669	20000	20260	ug/L	1	10	
Calcium	R	15.590	16.221	20000	20620	ug/L	3	10	
Iron	R	12.816	13.384	20000	20720	ug/L	4	10	
Magnesium	R	2.1329	2.2329	20000	20950	ug/L	5	10	
Potassium	R	4.7191	4.9538	20000	19720	ug/L	-1	10	
Sodium	R	11.151	11.362	20000	20200	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3408987	-4.96

87445470048

00439

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87445470050
Cal : 87445470001
File : 110507r
Caldate : 05-NOV-2007
IDF : 1.0
Time : 05-NOV-2007 11:10

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1270]	2.000	0.1170	ug/L	!ib
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	[1.137]	5.000	0.5779	ug/L	!ib
Molybdenum	A	[1.399]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	[4.805]	20.00	3.056	ug/L	!ib
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3575418	-0.32

!=warning ib=instrument blank

87445470050

: 00440

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470062 File : 110507r Time : 05-NOV-2007 11:43
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.534	5000	5063	ug/L	1	10	
Arsenic	A	17.609	19.537	5000	5399	ug/L	8	10	
Barium	A	437.01	445.11	5000	5247	ug/L	5	10	
Beryllium	A	3081.5	3187.5	500.0	524.1	ug/L	5	10	
Boron	A	151.55	162.71	5000	5181	ug/L	4	10	
Cadmium	A	217.73	223.02	5000	5170	ug/L	3	10	
Chromium	A	67.314	66.486	5000	4979	ug/L	0	10	
Cobalt	A	114.64	115.48	5000	4966	ug/L	-1	10	
Copper	A	407.69	410.34	5000	5026	ug/L	1	10	
Lead	A	41.632	43.074	5000	5027	ug/L	1	10	
Manganese	A	1332.8	1312.0	5000	5148	ug/L	3	10	
Molybdenum	A	37.308	37.478	5000	5080	ug/L	2	10	
Nickel	A	38.218	38.995	5000	5035	ug/L	1	10	
Selenium	A	27.630	29.229	5000	5087	ug/L	2	10	
Silver	A	451.37	468.80	1000	981.3	ug/L	-2	10	
Thallium	A	17.671	17.714	5000	5035	ug/L	1	10	
Tin	A	22.675	23.559	5000	4963	ug/L	-1	10	
Titanium	A	1200.8	1207.8	5000	5123	ug/L	2	10	
Vanadium	A	106.47	109.10	5000	5057	ug/L	1	10	
Zinc	A	96.127	81.062	5000	5050	ug/L	1	10	
Aluminum	R	1.4396	1.4385	20000	19870	ug/L	-1	10	
Calcium	R	15.590	16.123	20000	20490	ug/L	2	10	
Iron	R	12.816	13.290	20000	20580	ug/L	3	10	
Magnesium	R	2.1329	2.2265	20000	20890	ug/L	4	10	
Potassium	R	4.7191	4.8641	20000	19370	ug/L	-3	10	
Sodium	R	11.151	11.179	20000	19880	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3374409	-5.92

87445470062

00441

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470064 File : 110507r Time : 05-NOV-2007 11:50
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.534]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3584043	-0.07

!=warning ib=instrument blank

87445470064

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470067 File : 110507r Time : 05-NOV-2007 11:58
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.9	ug/L	12	20	
Arsenic	A	500.0	560.6	ug/L	12	20	
Barium	A	500.0	530.5	ug/L	6	20	
Beryllium	A	500.0	541.8	ug/L	8	20	
Cadmium	A	1000	983.1	ug/L	-2	20	
Chromium	A	500.0	494.1	ug/L	-1	20	
Cobalt	A	500.0	444.0	ug/L	-11	20	
Copper	A	500.0	499.0	ug/L	0	20	
Lead	A	1000	937.2	ug/L	-6	20	
Manganese	A	500.0	464.3	ug/L	-7	20	
Molybdenum	A	500.0	511.2	ug/L	2	20	
Nickel	A	1000	907.5	ug/L	-9	20	
Selenium	A	500.0	496.1	ug/L	-1	20	
Silver	A	1000	1063	ug/L	6	20	
Thallium	A	500.0	428.7	ug/L	-14	20	
Titanium	A	20000	20180	ug/L	1		
Vanadium	A	500.0	528.3	ug/L	6	20	
Zinc	A	1000	996.6	ug/L	0	20	
Aluminum	R	500000	515900	ug/L	3		
Calcium	R	500000	493600	ug/L	-1		
Iron	R	200000	192600	ug/L	-4		
Magnesium	R	500000	507400	ug/L	1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	2895693	-19.27

87445470067

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470069 File : 110507r Time : 05-NOV-2007 12:05
Cal : 87445470001 Caldate : 05-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.920	30.544	5000	5065	ug/L	1	10	
Arsenic	A	17.609	19.493	5000	5387	ug/L	8	10	
Barium	A	437.01	447.07	5000	5270	ug/L	5	10	
Beryllium	A	3081.5	3222.6	500.0	529.9	ug/L	6	10	
Boron	A	151.55	163.76	5000	5214	ug/L	4	10	
Cadmium	A	217.73	224.01	5000	5193	ug/L	4	10	
Chromium	A	67.314	66.788	5000	5002	ug/L	0	10	
Cobalt	A	114.64	116.02	5000	4989	ug/L	0	10	
Copper	A	407.69	410.31	5000	5026	ug/L	1	10	
Lead	A	41.632	43.261	5000	5049	ug/L	1	10	
Manganese	A	1332.8	1319.0	5000	5176	ug/L	4	10	
Molybdenum	A	37.308	37.585	5000	5095	ug/L	2	10	
Nickel	A	38.218	39.071	5000	5045	ug/L	1	10	
Selenium	A	27.630	29.160	5000	5075	ug/L	2	10	
Silver	A	451.37	472.09	1000	988.2	ug/L	-1	10	
Thallium	A	17.671	17.700	5000	5031	ug/L	1	10	
Tin	A	22.675	23.709	5000	4995	ug/L	0	10	
Titanium	A	1200.8	1213.4	5000	5147	ug/L	3	10	
Vanadium	A	106.47	109.48	5000	5075	ug/L	1	10	
Zinc	A	96.127	81.517	5000	5079	ug/L	2	10	
Aluminum	R	1.4396	1.4874	20000	20550	ug/L	3	10	
Calcium	R	15.590	16.778	20000	21320	ug/L	7	10	
Iron	R	12.816	13.852	20000	21450	ug/L	7	10	
Magnesium	R	2.1329	2.3381	20000	21940	ug/L	10	10	
Potassium	R	4.7191	5.0521	20000	20120	ug/L	1	10	
Sodium	R	11.151	11.557	20000	20550	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3344494	-6.75

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87445470071 File : 110507r Time : 05-NOV-2007 12:12
Cal : 87445470001 Caldate : 05-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	[0.5833]	5.000	0.5779	ug/L	!ib
Molybdenum	A	[1.706]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3586725	3534752	-1.45

!=warning ib=instrument blank

87445470071

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	110507r	ICALBLK				05-NOV-2007 08:30	1.0	1.0					
002	110507r	ICAL	CRIM08			05-NOV-2007 08:34	1.0	1.0				1	
003	110507r	ICAL	CS100			05-NOV-2007 08:38	1.0	1.0				2	
004	110507r	ICAL	CS1K			05-NOV-2007 08:41	1.0	1.0				3	
005	110507r	ICAL	CS10K			05-NOV-2007 08:44	1.0	1.0				4	
006	110507r	ICAL	CS100K			05-NOV-2007 08:47	1.0	1.0				5	
007	110507r	ICV				05-NOV-2007 08:53	1.0	1.0			5000	6	
008	110507r	ICB				05-NOV-2007 08:56	1.0	1.0			5000		
009	110507r	ICSA				05-NOV-2007 09:01	1.0	1.0			5000	7	10:AL=531691
010	110507r	ICSAB				05-NOV-2007 09:07	1.0	1.0			5000	8	5:AL=486901
011	110507r	SAMPLE	198921-002	131283	Miscel	05-NOV-2007 09:10	20.0	49.50			5000		1:FE=298405
012	110507r	SAMPLE	198929-007	131283	Soil	05-NOV-2007 09:13	10.0	47.62			5000		1:FE=240269
013	110507r	SAMPLE	198929-010	131283	Soil	05-NOV-2007 09:16	10.0	45.05			5000		
014	110507r	ICSAB				05-NOV-2007 09:19	1.0	1.0			5000	8	5:AL=496791
015	110507r	X	RINSE			05-NOV-2007 09:22	1.0						
016	110507r	BLANK	QC413589	131284	Soil	05-NOV-2007 09:26	1.0	50.0			5000		
017	110507r	BS	QC413590	131284	Soil	05-NOV-2007 09:30	1.0	50.0			5000		
018	110507r	BSD	QC413591	131284	Soil	05-NOV-2007 09:33	1.0	50.0			5000		
019	110507r	X	RINSE			05-NOV-2007 09:36	1.0						
020	110507r	CCV				05-NOV-2007 09:39	1.0	1.0			5000	9	
021	110507r	X	FLUSH			05-NOV-2007 09:42	1.0						
022	110507r	CCB				05-NOV-2007 09:46	1.0	1.0			5000		
023	110507r	MSS	198903-001	131284	Soil	05-NOV-2007 09:50	1.0	45.05	1		5000		1:FE=214998
024	110507r	MS	QC413592	131284	Soil	05-NOV-2007 09:52	1.0	47.17		1	5000		2:FE=216407
025	110507r	MSD	QC413593	131284	Soil	05-NOV-2007 09:54	1.0	48.08		4	5000		2:FE=228591
026	110507r	SER	QC413594	131284	Soil	05-NOV-2007 09:56	5.0	45.05		1	5000		
027	110507r	PDS	QC413595	131284	Soil	05-NOV-2007 09:59	1.0	45.05			5000	10 11	2:FE=235549
028	110507r	SAMPLE	198903-002	131284	Soil	05-NOV-2007 10:01	1.0	45.05			5000		5:FE=451360
029	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 10:03	1.0	47.17	2		5000		4:FE=365607
030	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 10:06	1.0	46.30	1		5000		2:FE=268314
031	110507r	?SAMPLE	198709-001			05-NOV-2007 10:08	1.0						

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/14

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
32	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 10:12	1.0	46.73		5000	3:MG=320813	
33	110507r	X	RINSE			05-NOV-2007 10:14	1.0					
34	110507r	CCV				05-NOV-2007 10:17	1.0	1.0		5000	9	
35	110507r	X	FLUSH			05-NOV-2007 10:21	1.0					
36	110507r	CCB				05-NOV-2007 10:24	1.0	1.0		5000		
37	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 10:28	1.0	49.50	1	5000	6:FE=649648	
38	110507r	SAMPLE	198841-001	131284	Miscel	05-NOV-2007 10:30	1.0	48.08		5000	1:FE=212461	
39	110507r	SAMPLE	198841-002	131284	Miscel	05-NOV-2007 10:33	1.0	45.45		5000	1:FE=226239	
40	110507r	SAMPLE	198841-003	131284	Miscel	05-NOV-2007 10:36	1.0	56.82		5000	3:FE=167173	
41	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 10:39	1.0	49.02		5000	3:FE=661648	
42	110507r	SAMPLE	198845-002	131284	Miscel	05-NOV-2007 10:43	1.0	45.45		5000	3:FE=452399	
43	110507r	SAMPLE	198852-001	131284	Miscel	05-NOV-2007 10:47	1.0	48.08		5000	2:FE=176098	
44	110507r	SAMPLE	198850-001	131284	Miscel	05-NOV-2007 10:50	1.0	71.43		5000	1:FE=202532	
45	110507r	SAMPLE	198850-002	131284	Miscel	05-NOV-2007 10:54	1.0	50.0		5000	2:FE=637998	
46	110507r	SAMPLE	198849-001	131284	Miscel	05-NOV-2007 10:56	1.0	45.05		5000	2:FE=1793655	
47	110507r	X	RINSE			05-NOV-2007 10:59	1.0					
48	110507r	CCV				05-NOV-2007 11:03	1.0	1.0		5000	9	
49	110507r	X	FLUSH			05-NOV-2007 11:06	1.0					
50	110507r	CCB				05-NOV-2007 11:10	1.0	1.0		5000		
51	110507r	SAMPLE	198848-001	131284	Miscel	05-NOV-2007 11:14	1.0	45.05		5000	2:FE=502731	
52	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:17	1.0	72.46	1	5000	3:FE=559436	
53	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:19	1.0	48.54	1	5000	4:CA=380474	
54	110507r	SAMPLE	198844-001	131284	Miscel	05-NOV-2007 11:21	1.0	100.0		5000		
55	110507r	SAMPLE	198844-002	131284	Miscel	05-NOV-2007 11:24	1.0	90.91		5000		
56	110507r	SAMPLE	198903-003	131284	Soil	05-NOV-2007 11:28	1.0	47.17		5000	3:FE=308922	
57	110507r	SAMPLE	198903-006	131284	Soil	05-NOV-2007 11:30	1.0	46.30	1	5000	2:FE=234718	
58	110507r	SAMPLE	198880-001	131284	Soil	05-NOV-2007 11:32	1.0	46.73		5000	3:MG=316139	
59	110507r	SAMPLE	198880-002	131284	Soil	05-NOV-2007 11:34	1.0	49.50		5000	6:FE=645974	
60	110507r	SAMPLE	198845-001	131284	Miscel	05-NOV-2007 11:36	1.0	49.02		5000	3:FE=665009	
61	110507r	X	RINSE			05-NOV-2007 11:40	1.0					
62	110507r	CCV				05-NOV-2007 11:43	1.0	1.0		5000	9	

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87445470 Instrument: MET08 PE ICP Begun: 05-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	110507r	X	FLUSH			05-NOV-2007 11:47	1.0				
064	110507r	CCB				05-NOV-2007 11:50	1.0	1.0	5000		
065	110507r	SAMPLE	198847-001	131284	Miscel	05-NOV-2007 11:54	1.0	72.46	5000		3:FE=592381
066	110507r	SAMPLE	198847-002	131284	Miscel	05-NOV-2007 11:56	1.0	48.54	5000		4:CA=402689
067	110507r	ICSAB				05-NOV-2007 11:58	1.0	1.0	5000	8	5:AL=515891
068	110507r	X	RINSE			05-NOV-2007 12:02	1.0				
069	110507r	CCV				05-NOV-2007 12:05	1.0	1.0	5000	9	
070	110507r	X	FLUSH			05-NOV-2007 12:09	1.0				
071	110507r	CCB				05-NOV-2007 12:12	1.0	1.0	5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/5/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET16
Calnum : 897449933001
Units : ug/L

Date : 08-NOV-2007 11:12
X Axis : R

Reviewer : ---

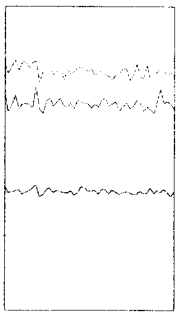
Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	k08k0005	897449933005		08-NOV-2007 11:18	S7596, S7605
L2	k08k0006	897449933006		08-NOV-2007 11:24	S7597, S7605
L3	k08k0007	897449933007		08-NOV-2007 11:30	S7598, S7605
L4	k08k0008	897449933008		08-NOV-2007 11:36	S7599, S7605
L5	k08k0009	897449933009		08-NOV-2007 11:42	S7594, S7605
L6	k08k0010	897449933010		08-NOV-2007 11:48	S7595, S7605

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum	A	0.4376	0.3397	0.3395	0.3057	0.3029	0.2990	BLNK	-3.8116	3.33667		0.3374	1.000	0.995	
Antimony	A	0.2457	0.1689	0.1637	0.1500	0.1628	0.1604	BLNK	-0.0587	6.22062		0.1752	1.000	0.995	
Barium	A	0.0455	0.0355	0.0351	0.0329	0.0325	0.0323	BLNK	-0.0202	30.9000		0.0356	1.000	0.995	
Beryllium	A	0.1473	0.1425	0.1467	0.1412	0.1407	0.1447	BLNK	-0.0086	6.95095		0.1438	1.000	0.995	
Cadmium	A	0.0412	0.0422	0.0401	0.0381	0.0387	0.0384	BLNK	-0.0058	25.9859		0.0398	1.000	0.995	
Calcium	A	0.0492	0.0175	0.0140	0.0099	0.0098	0.0096	BLNK	-40.139	104.008		0.0183	1.000	0.995	
Lead	A	0.6762	0.4495	0.4371	0.3946	0.4043	0.3927	BLNK	-0.0617	2.53245		0.4591	1.000	0.995	
Magnesium	A	0.3119	0.2831	0.2865	0.2627	0.2615	0.2558	BLNK	-2.1694	3.89165		0.2769	1.000	0.995	
Molybdenum	A	0.1156	0.1059	0.1101	0.1050	0.1051	0.1098	BLNK	-0.0201	9.18696		0.1086	1.000	0.995	
Potassium	A	2.8379	0.8140	0.5749	0.3324	0.3105	0.3051	BLNK	-81.694	3.28161		0.8625	1.000	0.995	
Silver	A	0.2033	0.1799	0.1819	0.1740	0.1806	0.1720	BLNK	-0.0102	5.75647		0.1820	0.999	0.995	
Thallium	A	0.5715	0.4352	0.4239	0.4001	0.4303	0.4245	BLNK	-0.0269	2.35035		0.4476	1.000	0.995	
Arsenic	E	0.3622	0.3109	0.3274	0.3200	0.3102	0.3097	BLNK	-0.0136	3.22787		0.3234	1.000	0.995	
Chromium	E	8.4680	4.1575	3.6125	3.0421	2.8521	2.7823	BLNK	-0.2587	0.35813		4.1524	1.000	0.995	
Cobalt	E	6.2110	5.7673	5.6272	5.6309	5.3764	5.1975	BLNK	-0.0185	0.19108		5.6351	1.000	0.995	
Copper	E	21.281	7.1152	6.2941	4.9271	4.5489	4.3977	BLNK	-0.3160	0.22623		8.0939	1.000	0.995	
Manganese	E	1.5345	0.9797	1.0432	0.9875	0.9473	0.9316	BLNK	-0.0874	1.07026		1.0706	1.000	0.995	
Nickel	E	5.4183	2.2928	2.0433	1.7092	1.5905	1.5284	BLNK	-2.2636	0.65800		2.4304	0.999	0.995	
Sodium	E	1.9579	0.6113	0.4339	0.2836	0.2586	0.2463	BLNK	-69.816	4.03590		0.6319	0.999	0.995	
Vanadium	E	2.8012	2.0721	2.0241	1.9573	1.9269	1.8964	BLNK	-0.0532	0.52577		2.1130	1.000	0.995	
Zinc	E	7.7689	1.8908	2.8069	0.8301	0.5311	0.5239	BLNK	-0.9483	1.91222		2.3920	0.999	0.995	
Iron	H	0.5335	0.4734	0.4670	0.4461	0.4272	0.4266	BLNK	-7.3649	2.34408		0.4623	1.000	0.995	
Selenium	H	0.0720	0.0646	0.0626	0.0631	0.0618	0.0599	BLNK	-0.0118	16.5889		0.0640	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Aluminum	A	10.00	8	50.00	6	100.0	9	1000	2	10000	1	20000	0
Antimony	A	0.100	-6	0.500	-7	1.000	-4	10.00	-7	100.0	1	200.0	0
Barium	A	0.100	21	0.500	6	1.000	6	10.00	1	100.0	0	200.0	0
Beryllium	A	0.100	-6	0.500	-3	1.000	1	10.00	-2	100.0	-2	200.0	1
Cadmium	A	0.100	1	0.500	9	1.000	4	10.00	-1	100.0	0	200.0	0
Calcium	A	10.00	10	50.00	2	100.0	6	1000	-1	10000	1	20000	0
Lead	A	0.100	10	0.500	1	1.000	5	10.00	-1	100.0	2	200.0	-1
Magnesium	A	10.00	0	50.00	6	100.0	9	1000	2	10000	2	20000	0
Molybdenum	A	0.100	-14	0.500	-7	1.000	-1	10.00	-4	100.0	-3	200.0	1
Potassium	A	10.00	14	50.00	4	100.0	7	1000	1	10000	1	20000	0
Silver	A	0.100	7	0.500	1	1.000	4	10.00	0	100.0	4	200.0	-1
Thallium	A	0.050	-19	0.250	-8	0.500	-6	5.000	-7	50.00	1	100.0	0
Arsenic	E	0.100	3	0.500	-2	1.000	4	10.00	3	100.0	0	200.0	0
Chromium	E	0.100	-55	0.500	-3	1.000	4	10.00	6	100.0	2	200.0	0
Cobalt	E	0.100	0	0.500	7	1.000	6	10.00	7	100.0	3	200.0	-1
Copper	E	0.100	65	0.500	-2	1.000	11	10.00	8	100.0	3	200.0	-1
Manganese	E	0.100	-23	0.500	-13	1.000	3	10.00	5	100.0	1	200.0	0
Nickel	E	0.100	-2007	0.500	-402	1.000	-192	10.00	-10	100.0	2	200.0	-1
Sodium	E	10.00	-8	50.00	7	100.0	5	1000	7	10000	4	20000	-1
Vanadium	E	0.100	-6	0.500	-2	1.000	1	10.00	2	100.0	1	200.0	0
Zinc	E	0.100	437	0.500	72	1.000	342	10.00	49	100.0	1	200.0	0
Iron	H	10.00	-49	50.00	-4	100.0	2	1000	4	10000	0	20000	0
Selenium	H	0.100	8	0.500	5	1.000	3	10.00	5	100.0	2	200.0	-1

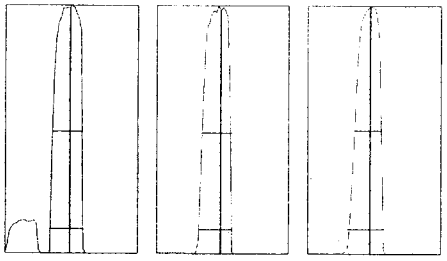
Tune Report

Tune File : nogas.u
Comment :



m/z	Range	Count	Mean	RSD%	Background
7	50,000	19737.0	19700.0	2.16	1.30
89	50,000	33251.0	34091.2	2.60	3.10
205	50,000	38520.0	39377.5	2.26	7.80

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec
n: 50
Oxide: 156/140 0.968%
Doubly Charged: 70/140 1.453%



m/z:	7	89	205
Height:	19,522	33,711	39,452
Axis:	7.00	89.00	204.95
W-50%:	0.70	0.70	0.60
W-10%:	0.7500	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec
Y axis : Linear

===Plasma Condition===

RF Power	:	1600 W
RF Matching	:	1.72 V
Smpl Depth	:	8 mm
Torch-H	:	0.2 mm
Torch-V	:	-0.6 mm
Carrier Gas	:	1.05 L/min
Makeup Gas	:	0 L/min
Optional Gas	:	--- %
Nebulizer Pump	:	0.1 rps
Sample Pump	:	--- rps
S/C Temp	:	2 degC

===Ion Lenses===

Extract 1	:	0 V
Extract 2	:	-150 V
Omega Bias-ce	:	-30 V
Omega Lens-ce	:	-2 V
Cell Entrance	:	-30 V
QP Focus	:	8 V
Cell Exit	:	-30 V

===Octopole Parameters===

OctP RF	:	180 V
OctP Bias	:	-6 V

===Q-Pole Parameters===

AMU Gain	:	124
AMU Offset	:	126
Axis Gain	:	0.9993
Axis Offset	:	0.03
QP Bias	:	-1 V

===Detector Parameters===

Discriminator	:	8 mV
Analog HV	:	1780 V
Pulse HV	:	1460 V

===Reaction Cell===

Reaction Mode : OFF
H2 Gas : 0 mL/min He Gas : 0 mL/min Optional Gas : --- %

Tune File : he.u
He Gas: 6 mL/min
Optional Gas: --- %
QP Focus: -10 V
Cell Exit: -38 V
OctP Bias: -18 V
QP Bias: -16 V

m/z	Count(Mean)	RSD%
51	6.3	42.59
59	3761.7	2.88
89	2219.6	2.82

Integration Time: 0.1000sec

Tune File : h2.u
H2 Gas: 4 mL/min
Optional Gas: --- %
QP Focus: -10 V
Cell Exit: -38 V
OctP Bias: -18 V
QP Bias: -16 V

m/z	Count(Mean)	RSD%
59	3563.7	3.64
78	0.4	178.78
89	29956.2	2.32

Integration Time: 0.1000sec

Generated : Nov 08, 2007 10:15:37
Printed : Nov 08, 2007 10:17:17 : 00451

P/A Factor Tuning Report

Acquired:Nov 8 2007 10:39 am

Mass[amu]	Element	P/A Factor
6	Li	0.059775
7	(Li)	Sensitivity too low
9	Be	0.067807
23	Na	Sensitivity too high
24	Mg	Sensitivity too high
27	Al	Sensitivity too high
39	K	Sensitivity too high
44	Ca	0.085918
45	Sc	0.084940
51	V	0.086742
52	Cr	0.091250
55	Mn	0.092816
56	Fe	Sensitivity too high
59	Co	0.096927
60	Ni	Sensitivity too low
63	Cu	0.102129
65	Cu	0.102201
66	Zn	Sensitivity too low
72	Ge	0.099257
75	As	Sensitivity too low
78	Se	Sensitivity too low
89	Y	0.097664
98	Mo	0.097468
99	(Ru)	Sensitivity too low
107	Ag	0.109520
111	Cd	Sensitivity too low
115	In	0.107987
118	(In)	0.107484
121	Sb	0.108326
137	Ba	0.107175
159	Tb	0.110557
205	Tl	0.119973
206	(Pb)	0.120703
207	(Pb)	0.118038
208	Pb	0.119992
209	Bi	0.119558

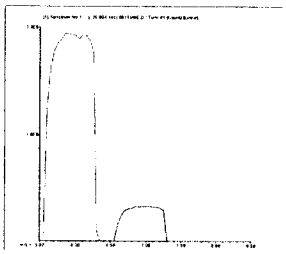
===Detector Parameters===
Discriminator: 8.0 mV
Analog HV: 1780 V
Pulse HV: 1460 V

MET16 QC Tune Report

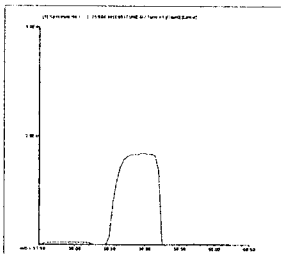
Data File: C:\ICPCHEM\1\DATA\07K08k00.B\001TUNE.D
Date Acquired: Nov 8 2007 10:53 am
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s7593
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

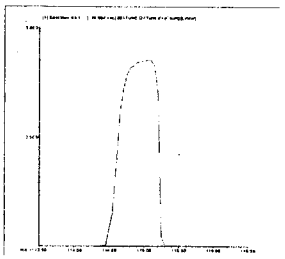
Element	Actual	Required	Flag
7 Li	1.48	5.00	
59 Co	0.91	5.00	
115 In	3.27	5.00	
205 Tl	0.94	5.00	



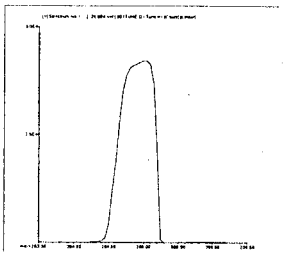
7 Li
Mass Calib.
Actual: 6.95
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 205.00
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K08k00.B\004CALB.D\004CALB.D#
Date Acquired: Nov 8 2007 11:10 am
Acq. Method: lcj6020.M
Operator:
Sample Name: calblank
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 08 2007 11:14 am
Sample Type: CalBlk
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	--------	4.666864E+01	46.67	ppb	--------	
23 Na	45	2	--------	1.044154E+04	10441.53	ppb	--------	
24 Mg	45	3	--------	2.592667E+04	25926.67	ppb	--------	
27 Al	45	3	--------	5.305433E+04	53054.33	ppb	--------	
39 K	45	3	--------	1.154125E+06	1154124.00	ppb	--------	
44 Ca	45	3	--------	1.789527E+04	17895.27	ppb	--------	
51 V	45	2	--------	6.111191E+01	61.11	ppb	--------	
52 Cr	45	2	--------	4.359371E+02	435.94	ppb	--------	
55 Mn	45	2	--------	4.926009E+01	49.26	ppb	--------	
56 Fe	45	1	--------	5.501679E+04	55016.79	ppb	--------	
59 Co	45	2	--------	5.851941E+01	58.52	ppb	--------	
60 Ni	45	2	--------	2.078646E+03	2078.65	ppb	--------	
63 Cu	72	2	--------	8.855905E+02	885.59	ppb	--------	
66 Zn	72	2	--------	3.144514E+02	314.45	ppb	--------	
75 As	72	2	--------	2.666686E+00	2.67	ppb	--------	
78 Se	72	1	--------	3.555578E+00	3.56	ppb	--------	
98 Mo	89	3	--------	1.566729E+02	156.67	ppb	--------	
107 Ag	115	3	--------	1.400056E+02	140.01	ppb	--------	
111 Cd	115	3	--------	1.777851E+01	17.78	ppb	--------	
121 Sb	115	3	--------	7.411573E+02	741.16	ppb	--------	
137 Ba	159	3	--------	8.333620E+01	83.34	ppb	--------	
205 Tl	209	3	--------	1.075640E+03	1075.64	ppb	--------	
208 Pb	159	3	--------	3.105893E+03	3105.89	ppb	--------	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1877049	2.07	1877049	100.0	80 - 120	
45 Sc	1	874916	0.99	874916	100.0	80 - 120	
45 Sc	2	30178	0.90	30178	100.0	80 - 120	
45 Sc	3	2317968	1.17	2317968	100.0	80 - 120	
72 Ge	1	249754	0.19	249754	100.0	80 - 120	
72 Ge	2	31707	1.21	31707	100.0	80 - 120	
89 Y	3	3559300	1.89	3559300	100.0	80 - 120	
115 In	3	3924878	1.50	3924878	100.0	80 - 120	
159 Tb	3	6364815	1.20	6364815	100.0	80 - 120	
209 Bi	3	4696149	1.39	4696149	100.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : ---

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K08k00.B\005CALS.D\005CALS.D#
Date Acquired: Nov 8 2007 11:16 am
Acq. Method: lcj6020.M
Operator:
Sample Name: S7596
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 08 2007 11:14 am
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	--------	5.511383E+02	551.14	ppb	--------	
23 Na	45	2	--------	1.185371E+04	11853.71	ppb	--------	
24 Mg	45	3	--------	1.463914E+05	146391.41	ppb	--------	
27 Al	45	3	--------	2.053292E+05	205329.20	ppb	--------	
39 K	45	3	--------	1.331797E+06	1331797.00	ppb	--------	
44 Ca	45	3	--------	2.308534E+04	23085.34	ppb	--------	
51 V	45	2	--------	1.696325E+02	169.63	ppb	--------	
52 Cr	45	2	--------	5.129772E+02	512.98	ppb	--------	
55 Mn	45	2	--------	9.296442E+01	92.96	ppb	--------	
56 Fe	45	1	--------	9.501441E+04	95014.41	ppb	--------	
59 Co	45	2	--------	3.759345E+02	375.93	ppb	--------	
60 Ni	45	2	--------	3.281554E+02	328.16	ppb	--------	
63 Cu	72	2	--------	1.344148E+03	1344.15	ppb	--------	
66 Zn	72	2	--------	4.907545E+02	490.75	ppb	--------	
75 As	72	2	--------	2.288906E+01	22.89	ppb	--------	
78 Se	72	1	--------	3.622251E+01	36.22	ppb	--------	
98 Mo	89	3	--------	8.289416E+02	828.94	ppb	--------	
107 Ag	115	3	--------	1.595697E+03	1595.70	ppb	--------	
111 Cd	115	3	--------	3.233493E+02	323.35	ppb	--------	
121 Sb	115	3	--------	1.927970E+03	1927.97	ppb	--------	
137 Ba	159	3	--------	5.822558E+02	582.26	ppb	--------	
205 Tl	209	3	--------	2.708140E+03	2708.14	ppb	--------	
208 Pb	159	3	--------	8.645963E+03	8645.96	ppb	--------	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1873608	1.88	1877049	99.8	80 - 120	
45 Sc	1	890452	0.27	874916	101.8	80 - 120	
45 Sc	2	30275	0.79	30178	100.3	80 - 120	
45 Sc	3	2346560	1.15	2317968	101.2	80 - 120	
72 Ge	1	251440	0.91	249754	100.7	80 - 120	
72 Ge	2	31585	0.41	31707	99.6	80 - 120	
89 Y	3	3585545	0.94	3559300	100.7	80 - 120	
115 In	3	3924396	1.28	3924878	100.0	80 - 120	
159 Tb	3	6393484	1.18	6364815	100.5	80 - 120	
209 Bi	3	4738709	1.00	4696149	100.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K08k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K08k00.B\006CALS.D\006CALS.D#
Date Acquired: Nov 8 2007 11:22 am
Acq. Method: lcj6020.M
Operator:
Sample Name: S7597
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 08 2007 11:20 am
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	0.5189	7.125004E-02	2646.97	ppb	6.97	
23 Na	45	2	58.1700	3.056284E+01	18535.74	ppb	3.98	
24 Mg	45	3	53.0600	1.415269E+01	652559.69	ppb	0.63	
27 Al	45	3	49.0000	1.698603E+01	783222.31	ppb	0.31	
39 K	45	3	45.3700	4.070158E+01	1876647.00	ppb	1.80	
44 Ca	45	3	46.0800	8.743714E-01	40318.16	ppb	1.15	
51 V	45	2	0.5224	1.036064E+00	628.17	ppb	7.39	
52 Cr	45	2	1.0910	2.078773E+00	1260.44	ppb	8.33	
55 Mn	45	2	0.5683	4.898627E-01	297.04	ppb	4.87	
56 Fe	45	1	93.6100	2.367152E+01	415546.00	ppb	1.76	
59 Co	45	2	0.5315	2.883653E+00	1749.01	ppb	2.21	
60 Ni	45	2	0.0791	1.146375E+00	695.21	ppb	1.27	
63 Cu	72	2	0.2955	3.557616E+00	2245.37	ppb	2.99	
66 Zn	72	2	0.1600	9.453988E-01	596.69	ppb	4.25	
75 As	72	2	0.4723	1.554267E-01	98.00	ppb	13.69	
78 Se	72	1	0.4872	3.231714E-02	,160.00	ppb	2.74	
98 Mo	89	3	0.5415	5.293903E-02	3756.17	ppb	0.49	
107 Ag	115	3	0.4751	8.993588E-02	7014.10	ppb	0.60	
111 Cd	115	3	0.5362	2.111733E-02	1646.82	ppb	2.62	
121 Sb	115	3	0.4956	8.443115E-02	6583.92	ppb	3.02	
137 Ba	159	3	0.4389	1.777126E-02	2242.47	ppb	4.68	
205 Tl	209	3	0.2841	1.087913E-01	10166.25	ppb	1.36	
208 Pb	159	3	0.4634	2.247396E-01	28357.09	ppb	1.16	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1858685	1.46	1877049	99.0	80 - 120	
45 Sc	1	877848	1.34	874916	100.3	80 - 120	
45 Sc	2	30328	1.18	30178	100.5	80 - 120	
45 Sc	3	2305465	0.87	2317968	99.5	80 - 120	
72 Ge	1	247571	1.38	249754	99.1	80 - 120	
72 Ge	2	31559	1.25	31707	99.5	80 - 120	
89 Y	3	3547506	1.31	3559300	99.7	80 - 120	
115 In	3	3899641	0.94	3924878	99.4	80 - 120	
159 Tb	3	6308761	0.43	6364815	99.1	80 - 120	
209 Bi	3	4672084	1.08	4696149	99.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K08k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K08k00.B\007CALS.D\007CALS.D#
Date Acquired: Nov 8 2007 11:28 am
Acq. Method: lcj6020.M
Operator:
Sample Name: S7598
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 08 2007 11:26 am
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	1.0400	1.466713E-01	5452.20	ppb	2.65	
23 Na	45	2	98.9000	4.339469E+01	26807.81	ppb	1.99	
24 Mg	45	3	103.5000	2.865042E+01	1332162.00	ppb	1.98	
27 Al	45	3	103.4000	3.394580E+01	1578460.00	ppb	1.24	
39 K	45	3	102.7000	5.749361E+01	2673407.00	ppb	2.22	
44 Ca	45	3	103.5000	1.400713E+00	65129.04	ppb	2.73	
51 V	45	2	1.0300	2.024075E+00	1250.44	ppb	5.80	
52 Cr	45	2	1.0880	3.612534E+00	2231.67	ppb	5.03	
55 Mn	45	2	1.1830	1.043182E+00	644.46	ppb	3.44	
56 Fe	45	1	108.0000	4.670153E+01	835359.69	ppb	0.50	
59 Co	45	2	0.9945	5.627209E+00	3476.35	ppb	0.75	
60 Ni	45	2	0.2528	2.043340E+00	1262.29	ppb	5.95	
63 Cu	72	2	1.1040	6.294107E+00	4024.64	ppb	2.35	
66 Zn	72	2	2.3760	2.806926E+00	1794.94	ppb	0.50	
75 As	72	2	1.0660	3.273805E-01	209.34	ppb	3.37	
78 Se	72	1	0.9774	6.255794E-02	312.45	ppb	8.13	
98 Mo	89	3	1.0660	1.101145E-01	7844.52	ppb	4.24	
107 Ag	115	3	1.0200	1.818980E-01	14025.86	ppb	2.32	
111 Cd	115	3	0.9575	4.012941E-02	3094.88	ppb	1.56	
121 Sb	115	3	1.0280	1.636781E-01	12622.44	ppb	1.92	
137 Ba	159	3	0.9998	3.506704E-02	4411.94	ppb	3.82	
205 Tl	209	3	0.5173	2.119549E-01	19692.16	ppb	1.08	
208 Pb	159	3	1.0270	4.371320E-01	55009.06	ppb	1.49	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1858870	0.72	1877049	99.0	80 - 120	
45 Sc	1	894363	0.28	874916	102.2	80 - 120	
45 Sc	2	30889	0.12	30178	102.4	80 - 120	
45 Sc	3	2325159	1.02	2317968	100.3	80 - 120	
72 Ge	1	249777	0.36	249754	100.0	80 - 120	
72 Ge	2	31974	0.54	31707	100.8	80 - 120	
89 Y	3	3563650	1.69	3559300	100.1	80 - 120	
115 In	3	3856061	1.14	3924878	98.2	80 - 120	
159 Tb	3	6292501	1.14	6364815	98.9	80 - 120	
209 Bi	3	4645667	0.96	4696149	98.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K08k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K08k00.B\008CALS.D\008CALS.D#
Date Acquired: Nov 8 2007 11:34 am
Acq. Method: lcj6020.M
Operator:
Sample Name: S7599
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 08 2007 11:32 am
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	9.7780	1.412072E+00	54781.83	ppb	1.04	
23 Na	45	2	1018.0000	2.836176E+02	174630.41	ppb	0.92	
24 Mg	45	3	939.7000	2.626889E+02	12810570.00	ppb	0.44	
27 Al	45	3	935.0000	3.057425E+02	14910210.00	ppb	0.59	
39 K	45	3	948.6000	3.324491E+02	16212940.00	ppb	0.67	
44 Ca	45	3	940.0000	9.857976E+00	480743.09	ppb	0.50	
51 V	45	2	10.1900	1.957307E+01	12051.78	ppb	0.88	
52 Cr	45	2	10.4500	3.042108E+01	18730.59	ppb	1.30	
55 Mn	45	2	10.5200	9.874838E+00	6080.51	ppb	0.60	
56 Fe	45	1	1033.0000	4.460532E+02	7907582.00	ppb	0.76	
59 Co	45	2	10.1500	5.630863E+01	34671.26	ppb	1.63	
60 Ni	45	2	-6.0700	1.709212E+01	10524.03	ppb	2.21	
63 Cu	72	2	9.9690	4.927098E+01	31473.83	ppb	0.47	
66 Zn	72	2	3.8360	8.300970E+00	5302.81	ppb	2.09	
75 As	72	2	10.0200	3.199538E+00	2043.93	ppb	1.61	
78 Se	72	1	10.1500	6.313872E-01	3146.79	ppb	2.30	
98 Mo	89	3	9.8370	1.050235E+00	77391.38	ppb	0.82	
107 Ag	115	3	9.6900	1.740235E+00	139932.70	ppb	0.44	
111 Cd	115	3	9.4670	3.814631E-01	30672.21	ppb	1.14	
121 Sb	115	3	9.7180	1.499937E+00	120606.80	ppb	0.77	
137 Ba	159	3	9.5410	3.290003E-01	42913.63	ppb	0.97	
205 Tl	209	3	4.9940	2.000291E+00	189918.20	ppb	0.99	
208 Pb	159	3	9.5530	3.946115E+00	514726.09	ppb	0.36	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1939919	1.23	1877049	103.3	80 - 120	
45 Sc	1	886422	0.66	874916	101.3	80 - 120	
45 Sc	2	30788	0.80	30178	102.0	80 - 120	
45 Sc	3	2438373	0.43	2317968	105.2	80 - 120	
72 Ge	1	249201	0.12	249754	99.8	80 - 120	
72 Ge	2	31940	0.34	31707	100.7	80 - 120	
89 Y	3	3684479	0.58	3559300	103.5	80 - 120	
115 In	3	4020633	1.19	3924878	102.4	80 - 120	
159 Tb	3	6522060	0.96	6364815	102.5	80 - 120	
209 Bi	3	4747356	0.75	4696149	101.1	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K08k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K08k00.B\009CALS.D\009CALS.D#
Date Acquired: Nov 8 2007 11:40 am
Acq. Method: lcj6020.M
Operator:
Sample Name: S7594
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 08 2007 11:38 am
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	99.7200	1.407369E+01	542267.81	ppb	0.65	
23 Na	45	2	9648.0000	2.586211E+03	1690131.00	ppb	1.30	
24 Mg	45	3	9968.0000	2.615483E+03	128983200.00	ppb	1.18	
27 Al	45	3	9932.0000	3.029087E+03	149383200.00	ppb	0.51	
39 K	45	3	10010.0000	3.105266E+03	153141790.00	ppb	0.99	
44 Ca	45	3	10280.0000	9.782213E+01	4824150.00	ppb	1.31	
51 V	45	2	98.9300	1.926910E+02	125930.00	ppb	0.31	
52 Cr	45	2	95.8400	2.852093E+02	186387.80	ppb	0.69	
55 Mn	45	2	96.7100	9.473422E+01	61911.98	ppb	1.18	
56 Fe	45	1	9643.0000	4.272380E+03	81044624.00	ppb	1.36	
59 Co	45	2	95.6500	5.376399E+02	351356.00	ppb	0.68	
60 Ni	45	2	117.9000	1.590526E+02	103940.00	ppb	1.17	
63 Cu	72	2	94.7200	4.548877E+02	303220.00	ppb	0.96	
66 Zn	72	2	66.0900	5.310980E+01	35402.70	ppb	0.96	
75 As	72	2	97.0700	3.102151E+01	20679.02	ppb	0.70	
78 Se	72	1	97.9300	6.175602E+00	32202.64	ppb	2.01	
98 Mo	89	3	100.2000	1.050658E+01	781833.19	ppb	0.31	
107 Ag	115	3	103.9000	1.806293E+01	1425119.00	ppb	1.18	
111 Cd	115	3	101.3000	3.865003E+00	304937.09	ppb	0.93	
121 Sb	115	3	109.1000	1.627799E+01	1284216.00	ppb	0.64	
137 Ba	159	3	98.9800	3.252507E+00	425764.81	ppb	0.86	
205 Tl	209	3	54.0600	2.151334E+01	2000494.00	ppb	1.64	
208 Pb	159	3	103.0000	4.043359E+01	5292829.00	ppb	1.18	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1926561	0.44	1877049	102.6	80 - 120	
45 Sc	1	948474	0.07	874916	108.4	80 - 120	
45 Sc	2	32677	1.20	30178	108.3	80 - 120	
45 Sc	3	2465822	0.50	2317968	106.4	80 - 120	
72 Ge	1	260736	0.55	249754	104.4	80 - 120	
72 Ge	2	33330	0.64	31707	105.1	80 - 120	
89 Y	3	3720703	0.25	3559300	104.5	80 - 120	
115 In	3	3944765	0.75	3924878	100.5	80 - 120	
159 Tb	3	6545298	0.44	6364815	102.8	80 - 120	
209 Bi	3	4649592	0.48	4696149	99.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K08k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K08k00.B\010CALS.D\010CALS.D#
Date Acquired: Nov 8 2007 11:46 am
Acq. Method: lcj6020.M
Operator:
Sample Name: S7595
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 08 2007 11:44 am
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	205.6000	2.893269E+01	1070792.00	ppb	0.46	
23 Na	45	2	19100.0000	4.926311E+03	3199244.00	ppb	5.21	
24 Mg	45	3	19560.0000	5.116830E+03	245904190.00	ppb	0.64	
27 Al	45	3	19740.0000	5.979404E+03	287347300.00	ppb	1.07	
39 K	45	3	19730.0000	6.102773E+03	293274820.00	ppb	1.17	
44 Ca	45	3	19680.0000	1.920397E+02	9228694.00	ppb	1.11	
51 V	45	2	196.9000	3.792761E+02	246286.00	ppb	5.43	
52 Cr	45	2	195.3000	5.564655E+02	361307.00	ppb	5.76	
55 Mn	45	2	196.7000	1.863213E+02	120986.20	ppb	5.55	
56 Fe	45	1	19970.0000	8.532875E+03	155708100.00	ppb	2.73	
59 Co	45	2	193.3000	1.039497E+03	675006.31	ppb	5.43	
60 Ni	45	2	194.5000	3.056765E+02	198458.50	ppb	5.99	
63 Cu	72	2	193.5000	8.795429E+02	575210.00	ppb	3.69	
66 Zn	72	2	197.2000	1.047891E+02	68530.08	ppb	3.74	
75 As	72	2	199.6000	6.194104E+01	40510.83	ppb	3.47	
78 Se	72	1	194.0000	1.198214E+01	60834.45	ppb	2.14	
98 Mo	89	3	209.1000	2.196451E+01	1590175.00	ppb	0.42	
107 Ag	115	3	190.5000	3.440046E+01	2592778.00	ppb	0.40	
111 Cd	115	3	199.0000	7.688620E+00	579487.63	ppb	0.36	
121 Sb	115	3	197.2000	3.207001E+01	2417041.00	ppb	0.66	
137 Ba	159	3	198.8000	6.465080E+00	818235.13	ppb	0.65	
205 Tl	209	3	98.7600	4.245100E+01	3722954.00	ppb	0.29	
208 Pb	159	3	194.4000	7.853972E+01	9940237.00	ppb	0.52	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1850491	0.26	1877049	98.6	80 - 120	
45 Sc	1	912902	3.07	874916	104.3	80 - 120	
45 Sc	2	32532	5.47	30178	107.8	80 - 120	
45 Sc	3	2402960	0.89	2317968	103.7	80 - 120	
72 Ge	1	253932	2.25	249754	101.7	80 - 120	
72 Ge	2	32729	3.72	31707	103.2	80 - 120	
89 Y	3	3619907	0.50	3559300	101.7	80 - 120	
115 In	3	3768508	0.80	3924878	96.0	80 - 120	
159 Tb	3	6328347	0.86	6364815	99.4	80 - 120	
209 Bi	3	4385000	0.13	4696149	93.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K08k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933012 File : k08k0012 Time : 08-NOV-2007 12:01
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7600, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	A	0.3374	0.2985	10000	9955	ug/L	0	10	
Antimony	A	0.1752	0.1637	100.0	101.8	ug/L	2	10	
Barium	A	0.0356	0.0322	100.0	99.36	ug/L	-1	10	
Beryllium	A	0.1438	0.1407	100.0	97.82	ug/L	-2	10	
Cadmium	A	0.0398	0.0384	100.0	99.79	ug/L	0	10	
Calcium	A	0.0183	0.0098	10000	10140	ug/L	1	10	
Lead	A	0.4591	0.3974	100.0	100.6	ug/L	1	10	
Magnesium	A	0.2769	0.2590	10000	10080	ug/L	1	10	
Molybdenum	A	0.1086	0.1036	100.0	95.18	ug/L	-5	10	
Potassium	A	0.8625	0.3111	10000	10130	ug/L	1	10	
Silver	A	0.1820	0.1799	100.0	103.6	ug/L	4	10	
Thallium	A	0.4476	0.4108	50.00	48.25	ug/L	-4	10	
Arsenic	E	0.3234	0.3094	100.0	99.85	ug/L	0	10	
Chromium	E	4.1524	2.7866	100.0	99.54	ug/L	0	10	
Cobalt	E	5.6351	5.2852	100.0	101.0	ug/L	1	10	
Copper	E	8.0939	4.4482	100.0	100.3	ug/L	0	10	
Manganese	E	1.0706	0.9361	100.0	100.1	ug/L	0	10	
Nickel	E	2.4304	1.5705	100.0	101.1	ug/L	1	10	
Sodium	E	0.6319	0.2567	10000	10290	ug/L	3	10	
Vanadium	E	2.1130	1.8752	100.0	98.54	ug/L	-1	10	
Zinc	E	2.3920	0.5213	100.0	98.74	ug/L	-1	10	
Iron	H	0.4623	0.4316	10000	10110	ug/L	1	10	
Selenium	H	0.0640	0.0603	100.0	100.0	ug/L	0	10	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1939526	3.33
Scandium	A	2317968	2509472	8.26
Scandium	E	30178	32795	8.67
Scandium	H	874916	949162	8.49
Germanium	H	249754	262605	5.15
Germanium	E	31707	33367	5.24
Indium	A	3924878	3959118	0.87
Bismuth	A	4696149	4659592	-0.78
Yttrium	A	3559300	3743304	5.17
Terbium	A	6364815	6579573	3.37

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933014 File : k08k0014 Time : 08-NOV-2007 12:14
Cal : 897449933001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[4.587]	10.00	1.698	ug/L	!ib
Antimony	A	[0.03939]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.03100]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.03605]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.03575]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.03092]	0.1000	0.006965	ug/L	!ib
Magnesium	A	[2.272]	10.00	1.686	ug/L	!ib
Molybdenum	A	[0.03410]	0.1000	0.02655	ug/L	!ib
Potassium	A	ND	10.00	2.504	ug/L	
Silver	A	[0.02550]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.01941]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.03579]	0.1000	0.007290	ug/L	!ib
Chromium	E	[0.07624]	0.1000	0.002192	ug/L	!ib
Cobalt	E	[0.03360]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.05416]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.05558]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1977757	5.37
Scandium	A	2317968	2512822	8.41
Scandium	E	30178	30444	0.88
Scandium	H	874916	952074	8.82
Germanium	H	249754	262426	5.07
Germanium	E	31707	31645	-0.19
Indium	A	3924878	4141356	5.52
Bismuth	A	4696149	4824438	2.73
Yttrium	A	3559300	3781438	6.24
Terbium	A	6364815	6666034	4.73

!=warning ib=instrument blank

897449933014

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933016 File : k08k0016 Time : 08-NOV-2007 12:26
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7602, S7605

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.8008	0.1000	ug/L	
Barium	A	8.399	0.1000	ug/L	
Beryllium	A	[0.02846]	0.1000	ug/L	
Cadmium	A	1.497	0.1000	ug/L	
Lead	A	0.5331	0.1000	ug/L	
Silver	A	0.2126	0.1000	ug/L	
Thallium	A	1.254	0.05000	ug/L	
Arsenic	E	0.2776	0.1000	ug/L	
Chromium	E	1.520	0.1000	ug/L	
Cobalt	E	0.2819	0.1000	ug/L	
Copper	E	2.472	0.1000	ug/L	
Manganese	E	0.7260	0.1000	ug/L	
Nickel	E	[0]	0.1000	ug/L	
Vanadium	E	[0.06603]	0.1000	ug/L	
Zinc	E	15.97	0.1000	ug/L	
Selenium	H	[0.09572]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	103900	ug/L	104
Calcium	A	300000	316000	ug/L	105
Magnesium	A	100000	102200	ug/L	102
Molybdenum	A	2000	2055	ug/L	103
Potassium	A	100000	102800	ug/L	103
Sodium	E	250000	260300	ug/L	104
Iron	H	250000	250100	ug/L	100

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1690569	-9.93
Scandium	A	2317968	2204616	-4.89
Scandium	E	30178	32239	6.83
Scandium	H	874916	899658	2.83
Germanium	H	249754	234834	-5.97
Germanium	E	31707	32185	1.51
Indium	A	3924878	3372902	-14.06
Bismuth	A	4696149	3790629	-19.28
Yttrium	A	3559300	3351544	-5.84
Terbium	A	6364815	5884879	-7.54

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933017 File : k08k0017 Time : 08-NOV-2007 12:32
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7603, S7605

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	97130	ug/L	-3		
Cadmium	A	100.0	98.44	ug/L	-2	20	
Calcium	A	300000	295400	ug/L	-2		
Magnesium	A	100000	95390	ug/L	-5		
Molybdenum	A	2000	1915	ug/L	-4		
Potassium	A	100000	96820	ug/L	-3		
Silver	A	50.00	45.52	ug/L	-9	20	
Arsenic	E	100.0	105.3	ug/L	5	20	
Chromium	E	200.0	198.5	ug/L	-1	20	
Cobalt	E	200.0	191.7	ug/L	-4	20	
Copper	E	200.0	181.4	ug/L	-9	20	
Manganese	E	200.0	197.1	ug/L	-1	20	
Nickel	E	200.0	186.5	ug/L	-7	20	
Sodium	E	250000	246300	ug/L	-1		
Vanadium	E	200.0	202.9	ug/L	1	20	
Zinc	E	100.0	91.33	ug/L	-9	20	
Iron	H	250000	236700	ug/L	-5		
Selenium	H	100.0	102.8	ug/L	3	20	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	874916	933791	6.73
Scandium	A	2317968	2204133	-4.91
Scandium	E	30178	32204	6.71
Germanium	H	249754	242946	-2.73
Germanium	E	31707	32288	1.83
Indium	A	3924878	3482920	-11.26
Yttrium	A	3559300	3395548	-4.60

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16
Seqnum : 897449933033 File : k08k0033 IDF : 1.0
Cal : 897449933001 Caldate : 08-NOV-2007 Time : 08-NOV-2007 14:08
Standards: S7601, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3374	0.2965	10000	9889	ug/L	-1	10	
Antimony	A	0.1752	0.1616	100.0	100.5	ug/L	1	10	
Barium	A	0.0356	0.0324	100.0	100.2	ug/L	0	10	
Beryllium	A	0.1438	0.1387	100.0	96.42	ug/L	-4	10	
Cadmium	A	0.0398	0.0377	100.0	97.85	ug/L	-2	10	
Calcium	A	0.0183	0.0097	10000	10080	ug/L	1	10	
Lead	A	0.4591	0.3896	100.0	98.61	ug/L	-1	10	
Magnesium	A	0.2769	0.2551	10000	9926	ug/L	-1	10	
Molybdenum	A	0.1086	0.1014	100.0	93.14	ug/L	-7	10	
Potassium	A	0.8625	0.3084	10000	10040	ug/L	0	10	
Silver	A	0.1820	0.1768	100.0	101.8	ug/L	2	10	
Thallium	A	0.4476	0.4050	50.00	47.57	ug/L	-5	10	
Arsenic	E	0.3234	0.3059	100.0	98.71	ug/L	-1	10	
Chromium	E	4.1524	2.6974	100.0	96.34	ug/L	-4	10	
Cobalt	E	5.6351	5.0836	100.0	97.12	ug/L	-3	10	
Copper	E	8.0939	4.2644	100.0	96.16	ug/L	-4	10	
Manganese	E	1.0706	0.9061	100.0	96.89	ug/L	-3	10	
Nickel	E	2.4304	1.5042	100.0	96.71	ug/L	-3	10	
Sodium	E	0.6319	0.2486	10000	9963	ug/L	0	10	
Vanadium	E	2.1130	1.8277	100.0	96.04	ug/L	-4	10	
Zinc	E	2.3920	0.5045	100.0	95.52	ug/L	-4	10	
Iron	H	0.4623	0.4279	10000	10020	ug/L	0	10	
Selenium	H	0.0640	0.0597	100.0	98.97	ug/L	-1	10	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	2017083	7.46
Scandium	A	2317968	2643714	14.05
Scandium	E	30178	35581	17.90
Scandium	H	874916	1013143	15.80
Germanium	H	249754	276369	10.66
Germanium	E	31707	36138	13.98
Indium	A	3924878	4164112	6.10
Bismuth	A	4696149	4760971	1.38
Yttrium	A	3559300	3995153	12.25
Terbium	A	6364815	6794203	6.75

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933035 File : k08k0035 Time : 08-NOV-2007 14:20
Cal : 897449933001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[5.110]	10.00	1.698	ug/L	!ib
Antimony	A	[0.02660]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.04086]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.02960]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.03072]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.03039]	0.1000	0.006965	ug/L	!ib
Magnesium	A	[2.758]	10.00	1.686	ug/L	!ib
Molybdenum	A	[0.03710]	0.1000	0.02655	ug/L	!ib
Potassium	A	[7.137]	10.00	2.504	ug/L	!ib
Silver	A	[0.03307]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.01118]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.04855]	0.1000	0.007290	ug/L	!ib
Chromium	E	[0.04294]	0.1000	0.002192	ug/L	!ib
Cobalt	E	[0.02175]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.02731]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	ND	0.1000	0.004305	ug/L	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	2003750	6.75
Scandium	A	2317968	2553740	10.17
Scandium	E	30178	33883	12.28
Scandium	H	874916	957061	9.39
Germanium	H	249754	270464	8.29
Germanium	E	31707	34730	9.53
Indium	A	3924878	4144649	5.60
Bismuth	A	4696149	4853605	3.35
Yttrium	A	3559300	3858297	8.40
Terbium	A	6364815	6718603	5.56

!=warning ib=instrument blank

897449933035

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933037 File : k08k0037 Time : 08-NOV-2007 14:31
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7602, S7605

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.8109	0.1000	ug/L	
Barium	A	8.549	0.1000	ug/L	
Beryllium	A	[0.02932]	0.1000	ug/L	
Cadmium	A	1.258	0.1000	ug/L	
Lead	A	0.5256	0.1000	ug/L	
Silver	A	0.2083	0.1000	ug/L	
Thallium	A	1.231	0.05000	ug/L	
Arsenic	E	0.2336	0.1000	ug/L	
Chromium	E	1.509	0.1000	ug/L	
Cobalt	E	0.2854	0.1000	ug/L	
Copper	E	2.354	0.1000	ug/L	
Manganese	E	0.7362	0.1000	ug/L	
Nickel	E	[0]	0.1000	ug/L	
Vanadium	E	[0.05653]	0.1000	ug/L	
Zinc	E	15.58	0.1000	ug/L	
Selenium	H	[0.06669]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	105800	ug/L	106
Calcium	A	300000	321600	ug/L	107
Magnesium	A	100000	103200	ug/L	103
Molybdenum	A	2000	2048	ug/L	102
Potassium	A	100000	105500	ug/L	106
Sodium	E	250000	255300	ug/L	102
Iron	H	250000	230900	ug/L	92

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1701174	-9.37
Scandium	A	2317968	2223922	-4.06
Scandium	E	30178	33627	11.43
Scandium	H	874916	1004260	14.78
Germanium	H	249754	255778	2.41
Germanium	E	31707	33195	4.69
Indium	A	3924878	3427342	-12.68
Bismuth	A	4696149	3781542	-19.48
Yttrium	A	3559300	3396040	-4.59
Terbium	A	6364815	5948676	-6.54

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933038 File : k08k0038 Time : 08-NOV-2007 14:37
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7603, S7605

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	96810	ug/L	-3		
Cadmium	A	100.0	98.47	ug/L	-2	20	
Calcium	A	300000	296200	ug/L	-1		
Magnesium	A	100000	94900	ug/L	-5		
Molybdenum	A	2000	1902	ug/L	-5		
Potassium	A	100000	97090	ug/L	-3		
Silver	A	50.00	45.72	ug/L	-9	20	
Arsenic	E	100.0	101.9	ug/L	2	20	
Chromium	E	200.0	186.6	ug/L	-7	20	
Cobalt	E	200.0	180.2	ug/L	-10	20	
Copper	E	200.0	171.8	ug/L	-14	20	
Manganese	E	200.0	186.3	ug/L	-7	20	
Nickel	E	200.0	174.0	ug/L	-13	20	
Sodium	E	250000	234600	ug/L	-6		
Vanadium	E	200.0	192.6	ug/L	-4	20	
Zinc	E	100.0	86.87	ug/L	-13	20	
Iron	H	250000	242400	ug/L	-3		
Selenium	H	100.0	103.5	ug/L	4	20	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	874916	896070	2.42
Scandium	A	2317968	2216928	-4.36
Scandium	E	30178	33273	10.26
Germanium	H	249754	236218	-5.42
Germanium	E	31707	32964	3.97
Indium	A	3924878	3455469	-11.96
Yttrium	A	3559300	3407132	-4.28

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933054 File : k08k0054 Time : 08-NOV-2007 16:20
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7601, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3374	0.3010	10000	10040	ug/L	0	10	
Antimony	A	0.1752	0.1640	100.0	102.0	ug/L	2	10	
Barium	A	0.0356	0.0325	100.0	100.5	ug/L	1	10	
Beryllium	A	0.1438	0.1380	100.0	95.92	ug/L	-4	10	
Cadmium	A	0.0398	0.0382	100.0	99.32	ug/L	-1	10	
Calcium	A	0.0183	0.0098	10000	10200	ug/L	2	10	
Lead	A	0.4591	0.3905	100.0	98.83	ug/L	-1	10	
Magnesium	A	0.2769	0.2611	10000	10160	ug/L	2	10	
Molybdenum	A	0.1086	0.1022	100.0	93.83	ug/L	-6	10	
Potassium	A	0.8625	0.3130	10000	10190	ug/L	2	10	
Silver	A	0.1820	0.1766	100.0	101.7	ug/L	2	10	
Thallium	A	0.4476	0.4101	50.00	48.17	ug/L	-4	10	
Arsenic	E	0.3234	0.3075	100.0	99.25	ug/L	-1	10	
Chromium	E	4.1524	2.7379	100.0	97.79	ug/L	-2	10	
Cobalt	E	5.6351	5.1404	100.0	98.20	ug/L	-2	10	
Copper	E	8.0939	4.2831	100.0	96.58	ug/L	-3	10	
Manganese	E	1.0706	0.9102	100.0	97.33	ug/L	-3	10	
Nickel	E	2.4304	1.5126	100.0	97.26	ug/L	-3	10	
Sodium	E	0.6319	0.2562	10000	10270	ug/L	3	10	
Vanadium	E	2.1130	1.8545	100.0	97.45	ug/L	-3	10	
Zinc	E	2.3920	0.5083	100.0	96.24	ug/L	-4	10	
Iron	H	0.4623	0.4680	10000	10960	ug/L	10	10	
Selenium	H	0.0640	0.0628	100.0	104.2	ug/L	4	10	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1925555	2.58
Scandium	A	2317968	2458853	6.08
Scandium	E	30178	33890	12.30
Scandium	H	874916	888768	1.58
Germanium	H	249754	251550	0.72
Germanium	E	31707	34536	8.92
Indium	A	3924878	3896940	-0.71
Bismuth	A	4696149	4481334	-4.57
Yttrium	A	3559300	3722075	4.57
Terbium	A	6364815	6412851	0.75

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933056 File : k08k0056 Time : 08-NOV-2007 16:33
Cal : 897449933001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	1.698	ug/L	
Antimony	A	[0.003615]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.01205]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.0006339]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	ND	0.1000	0.002608	ug/L	
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	ND	0.1000	0.006965	ug/L	
Magnesium	A	ND	10.00	1.686	ug/L	
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	[5.813]	10.00	2.504	ug/L	!ib
Silver	A	ND	0.1000	0.001856	ug/L	
Thallium	A	ND	0.05000	0.0006370	ug/L	
Arsenic	E	[0.04282]	0.1000	0.007290	ug/L	!ib
Chromium	E	[0.07058]	0.1000	0.002192	ug/L	!ib
Cobalt	E	[0.01603]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.04503]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.02889]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1977275	5.34
Scandium	A	2317968	2467364	6.45
Scandium	E	30178	34817	15.37
Scandium	H	874916	992642	13.46
Germanium	H	249754	271942	8.88
Germanium	E	31707	35677	12.52
Indium	A	3924878	4046268	3.09
Bismuth	A	4696149	4717668	0.46
Yttrium	A	3559300	3743886	5.19
Terbium	A	6364815	6490681	1.98

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16
Seqnum : 897449933057 File : k08k0057 IDF : 1.0
Cal : 897449933001 Caldate : 08-NOV-2007 Time : 08-NOV-2007 16:40
Standards: S7602, S7605

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.7711	0.1000	ug/L	
Barium	A	8.327	0.1000	ug/L	
Beryllium	A	[0.02681]	0.1000	ug/L	
Cadmium	A	1.223	0.1000	ug/L	
Lead	A	0.5127	0.1000	ug/L	
Silver	A	0.1982	0.1000	ug/L	
Thallium	A	1.210	0.05000	ug/L	
Arsenic	E	0.2455	0.1000	ug/L	
Chromium	E	1.511	0.1000	ug/L	
Cobalt	E	0.2893	0.1000	ug/L	
Copper	E	2.358	0.1000	ug/L	
Manganese	E	0.6902	0.1000	ug/L	
Nickel	E	[0]	0.1000	ug/L	
Vanadium	E	[0.06455]	0.1000	ug/L	
Zinc	E	15.73	0.1000	ug/L	
Selenium	H	[0.06641]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	101600	ug/L	102
Calcium	A	300000	311900	ug/L	104
Magnesium	A	100000	99570	ug/L	100
Molybdenum	A	2000	2004	ug/L	100
Potassium	A	100000	101900	ug/L	102
Sodium	E	250000	255200	ug/L	102
Iron	H	250000	250100	ug/L	100

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1691760	-9.87
Scandium	A	2317968	2231600	-3.73
Scandium	E	30178	32343	7.17
Scandium	H	874916	871841	-0.35
Germanium	H	249754	230791	-7.59
Germanium	E	31707	32234	1.66
Indium	A	3924878	3454593	-11.98
Bismuth	A	4696149	3843650	-18.15
Yttrium	A	3559300	3413564	-4.09
Terbium	A	6364815	6003528	-5.68

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16
Seqnum : 897449933058 File : k08k0058 IDF : 1.0
Cal : 897449933001 Caldate : 08-NOV-2007 Time : 08-NOV-2007 16:46
Standards: S7603, S7605

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	94570	ug/L	-5		
Cadmium	A	100.0	96.81	ug/L	-3	20	
Calcium	A	300000	292000	ug/L	-3		
Magnesium	A	100000	92250	ug/L	-8		
Molybdenum	A	2000	1865	ug/L	-7		
Potassium	A	100000	95860	ug/L	-4		
Silver	A	50.00	44.82	ug/L	-10	20	
Arsenic	E	100.0	102.5	ug/L	3	20	
Chromium	E	200.0	189.9	ug/L	-5	20	
Cobalt	E	200.0	184.1	ug/L	-8	20	
Copper	E	200.0	172.8	ug/L	-14	20	
Manganese	E	200.0	190.0	ug/L	-5	20	
Nickel	E	200.0	177.7	ug/L	-11	20	
Sodium	E	250000	238000	ug/L	-5		
Vanadium	E	200.0	195.7	ug/L	-2	20	
Zinc	E	100.0	87.22	ug/L	-13	20	
Iron	H	250000	230900	ug/L	-8		
Selenium	H	100.0	99.51	ug/L	0	20	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	874916	911519	4.18
Scandium	A	2317968	2266864	-2.20
Scandium	E	30178	32635	8.14
Germanium	H	249754	238327	-4.58
Germanium	E	31707	32844	3.59
Indium	A	3924878	3538105	-9.85
Yttrium	A	3559300	3497364	-1.74

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16
Seqnum : 897449933074 File : k08k0074 IDF : 1.0
Cal : 897449933001 Caldate : 08-NOV-2007 Time : 08-NOV-2007 18:23
Standards: S7601, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3374	0.2983	10000	9950	ug/L	-1	10	
Antimony	A	0.1752	0.1608	100.0	99.99	ug/L	0	10	
Barium	A	0.0356	0.0326	100.0	100.6	ug/L	1	10	
Beryllium	A	0.1438	0.1383	100.0	96.16	ug/L	-4	10	
Cadmium	A	0.0398	0.0376	100.0	97.82	ug/L	-2	10	
Calcium	A	0.0183	0.0098	10000	10160	ug/L	2	10	
Lead	A	0.4591	0.3859	100.0	97.67	ug/L	-2	10	
Magnesium	A	0.2769	0.2586	10000	10060	ug/L	1	10	
Molybdenum	A	0.1086	0.1011	100.0	92.83	ug/L	-7	10	
Potassium	A	0.8625	0.3136	10000	10210	ug/L	2	10	
Silver	A	0.1820	0.1746	100.0	100.5	ug/L	1	10	
Thallium	A	0.4476	0.4090	50.00	48.04	ug/L	-4	10	
Arsenic	E	0.3234	0.3071	100.0	99.11	ug/L	-1	10	
Chromium	E	4.1524	2.7230	100.0	97.26	ug/L	-3	10	
Cobalt	E	5.6351	5.1456	100.0	98.30	ug/L	-2	10	
Copper	E	8.0939	4.2744	100.0	96.38	ug/L	-4	10	
Manganese	E	1.0706	0.9227	100.0	98.66	ug/L	-1	10	
Nickel	E	2.4304	1.5142	100.0	97.37	ug/L	-3	10	
Sodium	E	0.6319	0.2516	10000	10080	ug/L	1	10	
Vanadium	E	2.1130	1.8569	100.0	97.58	ug/L	-2	10	
Zinc	E	2.3920	0.5008	100.0	94.81	ug/L	-5	10	
Iron	H	0.4623	0.4194	10000	9824	ug/L	-2	10	
Selenium	H	0.0640	0.0579	100.0	96.00	ug/L	-4	10	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1910389	1.78
Scandium	A	2317968	2481265	7.04
Scandium	E	30178	33438	10.80
Scandium	H	874916	959466	9.66
Germanium	H	249754	265666	6.37
Germanium	E	31707	34272	8.09
Indium	A	3924878	3975158	1.28
Bismuth	A	4696149	4556856	-2.97
Yttrium	A	3559300	3771066	5.95
Terbium	A	6364815	6531600	2.62

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933077 File : k08k0077 Time : 08-NOV-2007 18:41
Cal : 897449933001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[2.305]	10.00	1.698	ug/L	!ib
Antimony	A	[0.01213]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.01890]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.006174]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.009193]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.006986]	0.1000	0.006965	ug/L	!ib
Magnesium	A	ND	10.00	1.686	ug/L	
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	[5.656]	10.00	2.504	ug/L	!ib
Silver	A	[0.004633]	0.1000	0.001856	ug/L	!ib
Thallium	A	ND	0.05000	0.0006370	ug/L	
Arsenic	E	[0.02381]	0.1000	0.007290	ug/L	!ib
Chromium	E	[0.02289]	0.1000	0.002192	ug/L	!ib
Cobalt	E	ND	0.1000	0.001165	ug/L	
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.01284]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.01498]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1958756	4.35
Scandium	A	2317968	2477648	6.89
Scandium	E	30178	33570	11.24
Scandium	H	874916	952686	8.89
Germanium	H	249754	266482	6.70
Germanium	E	31707	34480	8.75
Indium	A	3924878	4123532	5.06
Bismuth	A	4696149	4795901	2.12
Yttrium	A	3559300	3801559	6.81
Terbium	A	6364815	6631900	4.20

!=warning ib=instrument blank

897449933077

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933088 File : k08k0088 Time : 08-NOV-2007 19:46
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7601, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3374	0.2878	10000	9599	ug/L	-4	10	
Antimony	A	0.1752	0.1574	100.0	97.84	ug/L	-2	10	
Barium	A	0.0356	0.0316	100.0	97.74	ug/L	-2	10	
Beryllium	A	0.1438	0.1318	100.0	91.60	ug/L	-8	10	
Cadmium	A	0.0398	0.0365	100.0	94.76	ug/L	-5	10	
Calcium	A	0.0183	0.0095	10000	9827	ug/L	-2	10	
Lead	A	0.4591	0.3766	100.0	95.30	ug/L	-5	10	
Magnesium	A	0.2769	0.2488	10000	9681	ug/L	-3	10	
Molybdenum	A	0.1086	0.0984	100.0	90.36	ug/L	-10	10	
Potassium	A	0.8625	0.3021	10000	9832	ug/L	-2	10	
Silver	A	0.1820	0.1698	100.0	97.73	ug/L	-2	10	
Thallium	A	0.4476	0.3942	50.00	46.30	ug/L	-7	10	
Arsenic	E	0.3234	0.3026	100.0	97.67	ug/L	-2	10	
Chromium	E	4.1524	2.6824	100.0	95.80	ug/L	-4	10	
Cobalt	E	5.6351	5.0412	100.0	96.31	ug/L	-4	10	
Copper	E	8.0939	4.1986	100.0	94.67	ug/L	-5	10	
Manganese	E	1.0706	0.8974	100.0	95.95	ug/L	-4	10	
Nickel	E	2.4304	1.4796	100.0	95.09	ug/L	-5	10	
Sodium	E	0.6319	0.2492	10000	9988	ug/L	0	10	
Vanadium	E	2.1130	1.8202	100.0	95.65	ug/L	-4	10	
Zinc	E	2.3920	0.4937	100.0	93.46	ug/L	-7	10	
Iron	H	0.4623	0.4257	10000	9970	ug/L	0	10	
Selenium	H	0.0640	0.0585	100.0	97.01	ug/L	-3	10	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	2001888	6.65
Scandium	A	2317968	2572128	10.96
Scandium	E	30178	34282	13.60
Scandium	H	874916	940928	7.54
Germanium	H	249754	260947	4.48
Germanium	E	31707	34902	10.08
Indium	A	3924878	4081673	3.99
Bismuth	A	4696149	4682545	-0.29
Yttrium	A	3559300	3865231	8.60
Terbium	A	6364815	6682563	4.99

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933090 File : k08k0090 Time : 08-NOV-2007 19:59
Cal : 897449933001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[1.899]	10.00	1.698	ug/L	!ib
Antimony	A	[0.003457]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.01497]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.004386]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	ND	0.1000	0.002608	ug/L	
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	ND	0.1000	0.006965	ug/L	
Magnesium	A	ND	10.00	1.686	ug/L	
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	[2.909]	10.00	2.504	ug/L	!ib
Silver	A	ND	0.1000	0.001856	ug/L	
Thallium	A	ND	0.05000	0.0006370	ug/L	
Arsenic	E	ND	0.1000	0.007290	ug/L	
Chromium	E	[0.02209]	0.1000	0.002192	ug/L	!ib
Cobalt	E	ND	0.1000	0.001165	ug/L	
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.004652]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.01482]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1961119	4.48
Scandium	A	2317968	2481211	7.04
Scandium	E	30178	32986	9.30
Scandium	H	874916	912697	4.32
Germanium	H	249754	255998	2.50
Germanium	E	31707	33838	6.72
Indium	A	3924878	4054061	3.29
Bismuth	A	4696149	4745558	1.05
Yttrium	A	3559300	3764933	5.78
Terbium	A	6364815	6480604	1.82

!=warning ib=instrument blank

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16
Seqnum : 897449933108 File : k08k0108
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7601, S7605

IDF : 1.0
Time : 08-NOV-2007 21:47

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3374	0.2900	10000	9673	ug/L	-3	10	
Antimony	A	0.1752	0.1589	100.0	98.81	ug/L	-1	10	
Barium	A	0.0356	0.0318	100.0	98.39	ug/L	-2	10	
Beryllium	A	0.1438	0.1333	100.0	92.63	ug/L	-7	10	
Cadmium	A	0.0398	0.0374	100.0	97.22	ug/L	-3	10	
Calcium	A	0.0183	0.0095	10000	9888	ug/L	-1	10	
Lead	A	0.4591	0.3817	100.0	96.60	ug/L	-3	10	
Magnesium	A	0.2769	0.2535	10000	9862	ug/L	-1	10	
Molybdenum	A	0.1086	0.1003	100.0	92.08	ug/L	-8	10	
Potassium	A	0.8625	0.3050	10000	9927	ug/L	-1	10	
Silver	A	0.1820	0.1712	100.0	98.52	ug/L	-1	10	
Thallium	A	0.4476	0.3960	50.00	46.51	ug/L	-7	10	
Arsenic	E	0.3234	0.2953	100.0	95.30	ug/L	-5	10	
Chromium	E	4.1524	2.6975	100.0	96.34	ug/L	-4	10	
Cobalt	E	5.6351	5.0977	100.0	97.39	ug/L	-3	10	
Copper	E	8.0939	4.1060	100.0	92.57	ug/L	-7	10	
Manganese	E	1.0706	0.8953	100.0	95.73	ug/L	-4	10	
Nickel	E	2.4304	1.5140	100.0	97.36	ug/L	-3	10	
Sodium	E	0.6319	0.2496	10000	10000	ug/L	0	10	
Vanadium	E	2.1130	1.8255	100.0	95.93	ug/L	-4	10	
Zinc	E	2.3920	0.4861	100.0	92.01	ug/L	-8	10	
Iron	H	0.4623	0.4214	10000	9871	ug/L	-1	10	
Selenium	H	0.0640	0.0581	100.0	96.38	ug/L	-4	10	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1836462	-2.16
Scandium	A	2317968	2362909	1.94
Scandium	E	30178	32218	6.76
Scandium	H	874916	926865	5.94
Germanium	H	249754	258433	3.48
Germanium	E	31707	33720	6.35
Indium	A	3924878	3781693	-3.65
Bismuth	A	4696149	4450734	-5.23
Yttrium	A	3559300	3565609	0.18
Terbium	A	6364815	6302710	-0.98

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933111 File : k08k0111 Time : 08-NOV-2007 22:05
Cal : 897449933001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[4.212]	10.00	1.698	ug/L	!ib
Antimony	A	[0.02091]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.03853]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.01890]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.02547]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.01875]	0.1000	0.006965	ug/L	!ib
Magnesium	A	10.36	10.00	1.686	ug/L	ib ***
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	[6.661]	10.00	2.504	ug/L	!ib
Silver	A	[0.01881]	0.1000	0.001856	ug/L	!ib
Thallium	A	ND	0.05000	0.0006370	ug/L	
Arsenic	E	[0.03312]	0.1000	0.007290	ug/L	!ib
Chromium	E	[0.05741]	0.1000	0.002192	ug/L	!ib
Cobalt	E	[0.01259]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.07041]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.01839]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1926210	2.62
Scandium	A	2317968	2392637	3.22
Scandium	E	30178	32457	7.55
Scandium	H	874916	912088	4.25
Germanium	H	249754	256404	2.66
Germanium	E	31707	33765	6.49
Indium	A	3924878	4006934	2.09
Bismuth	A	4696149	4684783	-0.24
Yttrium	A	3559300	3666997	3.03
Terbium	A	6364815	6398463	0.53

!=warning ib=instrument blank

897449933111

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933123 File : k08k0123 Time : 08-NOV-2007 23:15
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7601, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3374	0.2872	10000	9581	ug/L	-4	10	
Antimony	A	0.1752	0.1597	100.0	99.29	ug/L	-1	10	
Barium	A	0.0356	0.0315	100.0	97.30	ug/L	-3	10	
Beryllium	A	0.1438	0.1299	100.0	90.30	ug/L	-10	10	
Cadmium	A	0.0398	0.0368	100.0	95.68	ug/L	-4	10	
Calcium	A	0.0183	0.0095	10000	9878	ug/L	-1	10	
Lead	A	0.4591	0.3818	100.0	96.62	ug/L	-3	10	
Magnesium	A	0.2769	0.2493	10000	9701	ug/L	-3	10	
Molybdenum	A	0.1086	0.0977	100.0	89.74	ug/L	-10	10	
Potassium	A	0.8625	0.3020	10000	9829	ug/L	-2	10	
Silver	A	0.1820	0.1698	100.0	97.76	ug/L	-2	10	
Thallium	A	0.4476	0.3968	50.00	46.61	ug/L	-7	10	
Arsenic	E	0.3234	0.2982	100.0	96.25	ug/L	-4	10	
Chromium	E	4.1524	2.7088	100.0	96.75	ug/L	-3	10	
Cobalt	E	5.6351	5.1331	100.0	98.06	ug/L	-2	10	
Copper	E	8.0939	4.1292	100.0	93.10	ug/L	-7	10	
Manganese	E	1.0706	0.8992	100.0	96.15	ug/L	-4	10	
Nickel	E	2.4304	1.5046	100.0	96.74	ug/L	-3	10	
Sodium	E	0.6319	0.2532	10000	10150	ug/L	2	10	
Vanadium	E	2.1130	1.8400	100.0	96.69	ug/L	-3	10	
Zinc	E	2.3920	0.4894	100.0	92.63	ug/L	-7	10	
Iron	H	0.4623	0.4315	10000	10110	ug/L	1	10	
Selenium	H	0.0640	0.0597	100.0	99.06	ug/L	-1	10	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1838554	-2.05
Scandium	A	2317968	2343243	1.09
Scandium	E	30178	30993	2.70
Scandium	H	874916	905040	3.44
Germanium	H	249754	248029	-0.69
Germanium	E	31707	32696	3.12
Indium	A	3924878	3819149	-2.69
Bismuth	A	4696149	4462307	-4.98
Yttrium	A	3559300	3597767	1.08
Terbium	A	6364815	6337568	-0.43

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933125 File : k08k0125 Time : 08-NOV-2007 23:27
Cal : 897449933001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[2.130]	10.00	1.698	ug/L	!ib
Antimony	A	[0.003489]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.02340]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.004058]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.01008]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	ND	0.1000	0.006965	ug/L	
Magnesium	A	[6.623]	10.00	1.686	ug/L	!ib
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	[4.846]	10.00	2.504	ug/L	!ib
Silver	A	[0.003409]	0.1000	0.001856	ug/L	!ib
Thallium	A	ND	0.05000	0.0006370	ug/L	
Arsenic	E	[0.01127]	0.1000	0.007290	ug/L	!ib
Chromium	E	[0.03324]	0.1000	0.002192	ug/L	!ib
Cobalt	E	ND	0.1000	0.001165	ug/L	
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.02583]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.007365]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1863425	-0.73
Scandium	A	2317968	2323632	0.24
Scandium	E	30178	30190	0.04
Scandium	H	874916	905292	3.47
Germanium	H	249754	249842	0.04
Germanium	E	31707	31805	0.31
Indium	A	3924878	3887469	-0.95
Bismuth	A	4696149	4578127	-2.51
Yttrium	A	3559300	3548861	-0.29
Terbium	A	6364815	6254909	-1.73

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16
Seqnum : 897449933128 File : k08k0128 IDF : 1.0
Cal : 897449933001 Caldate : 08-NOV-2007 Time : 08-NOV-2007 23:45
Standards: S7602, S7605

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.7584	0.1000	ug/L	
Barium	A	8.235	0.1000	ug/L	
Beryllium	A	[0.01944]	0.1000	ug/L	
Cadmium	A	1.185	0.1000	ug/L	
Lead	A	0.5045	0.1000	ug/L	
Silver	A	0.1878	0.1000	ug/L	
Thallium	A	1.151	0.05000	ug/L	
Arsenic	E	0.2188	0.1000	ug/L	
Chromium	E	1.471	0.1000	ug/L	
Cobalt	E	0.2855	0.1000	ug/L	
Copper	E	2.309	0.1000	ug/L	
Manganese	E	0.7099	0.1000	ug/L	
Nickel	E	[0]	0.1000	ug/L	
Vanadium	E	[0.06747]	0.1000	ug/L	
Zinc	E	14.84	0.1000	ug/L	
Selenium	H	[0.05537]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	98050	ug/L	98
Calcium	A	300000	304100	ug/L	101
Magnesium	A	100000	95490	ug/L	95
Molybdenum	A	2000	1950	ug/L	98
Potassium	A	100000	99570	ug/L	100
Sodium	E	250000	245700	ug/L	98
Iron	H	250000	239700	ug/L	96

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1599421	-14.79
Scandium	A	2317968	2203742	-4.93
Scandium	E	30178	30766	1.95
Scandium	H	874916	837778	-4.24
Germanium	H	249754	219616	-12.07
Germanium	E	31707	31191	-1.63
Indium	A	3924878	3441623	-12.31
Bismuth	A	4696149	3817777	-18.70
Yttrium	A	3559300	3423106	-3.83
Terbium	A	6364815	5941682	-6.65

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16
Seqnum : 897449933129 File : k08k0129
Cal : 897449933001 Caldate : 08-NOV-2007
IDF : 1.0
Time : 08-NOV-2007 23:51
Standards: S7603, S7605

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	93940	ug/L	-6		
Cadmium	A	100.0	96.13	ug/L	-4	20	
Calcium	A	300000	294300	ug/L	-2		
Magnesium	A	100000	91520	ug/L	-8		
Molybdenum	A	2000	1863	ug/L	-7		
Potassium	A	100000	97110	ug/L	-3		
Silver	A	50.00	44.70	ug/L	-11	20	
Arsenic	E	100.0	102.0	ug/L	2	20	
Chromium	E	200.0	187.4	ug/L	-6	20	
Cobalt	E	200.0	181.9	ug/L	-9	20	
Copper	E	200.0	170.2	ug/L	-15	20	
Manganese	E	200.0	188.5	ug/L	-6	20	
Nickel	E	200.0	176.1	ug/L	-12	20	
Sodium	E	250000	231400	ug/L	-7		
Vanadium	E	200.0	193.8	ug/L	-3	20	
Zinc	E	100.0	86.34	ug/L	-14	20	
Iron	H	250000	232800	ug/L	-7		
Selenium	H	100.0	100.0	ug/L	0	20	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	874916	833887	-4.69
Scandium	A	2317968	2179642	-5.97
Scandium	E	30178	30926	2.48
Germanium	H	249754	222807	-10.79
Germanium	E	31707	31220	-1.54
Indium	A	3924878	3467469	-11.65
Yttrium	A	3559300	3414990	-4.05

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16
Seqnum : 897449933144 File : k08k0144
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7601, S7605
IDF : 1.0
Time : 09-NOV-2007 01:21

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3374	0.2853	10000	9515	ug/L	-5	10	
Antimony	A	0.1752	0.1589	100.0	98.79	ug/L	-1	10	
Barium	A	0.0356	0.0321	100.0	99.02	ug/L	-1	10	
Beryllium	A	0.1438	0.1322	100.0	91.89	ug/L	-8	10	
Cadmium	A	0.0398	0.0367	100.0	95.27	ug/L	-5	10	
Calcium	A	0.0183	0.0097	10000	10030	ug/L	0	10	
Lead	A	0.4591	0.3851	100.0	97.47	ug/L	-3	10	
Magnesium	A	0.2769	0.2466	10000	9595	ug/L	-4	10	
Molybdenum	A	0.1086	0.0983	100.0	90.33	ug/L	-10	10	
Potassium	A	0.8625	0.3048	10000	9921	ug/L	-1	10	
Silver	A	0.1820	0.1701	100.0	97.89	ug/L	-2	10	
Thallium	A	0.4476	0.4010	50.00	47.10	ug/L	-6	10	
Arsenic	E	0.3234	0.2920	100.0	94.23	ug/L	-6	10	
Chromium	E	4.1524	2.6003	100.0	92.86	ug/L	-7	10	
Cobalt	E	5.6351	4.9668	100.0	94.89	ug/L	-5	10	
Copper	E	8.0939	4.0310	100.0	90.88	ug/L	-9	10	
Manganese	E	1.0706	0.8725	100.0	93.29	ug/L	-7	10	
Nickel	E	2.4304	1.4553	100.0	93.50	ug/L	-7	10	
Sodium	E	0.6319	0.2405	10000	9637	ug/L	-4	10	
Vanadium	E	2.1130	1.7839	100.0	93.74	ug/L	-6	10	
Zinc	E	2.3920	0.4775	100.0	90.37	ug/L	-10	10	
Iron	H	0.4623	0.4242	10000	9937	ug/L	-1	10	
Selenium	H	0.0640	0.0585	100.0	96.95	ug/L	-3	10	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1680623	-10.46
Scandium	A	2317968	2278780	-1.69
Scandium	E	30178	30557	1.26
Scandium	H	874916	869787	-0.59
Germanium	H	249754	239631	-4.05
Germanium	E	31707	31809	0.32
Indium	A	3924878	3752062	-4.40
Bismuth	A	4696149	4388620	-6.55
Yttrium	A	3559300	3550498	-0.25
Terbium	A	6364815	6194123	-2.68

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933147 File : k08k0147 Time : 09-NOV-2007 01:39
Cal : 897449933001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[2.362]	10.00	1.698	ug/L	!ib
Antimony	A	[0.008451]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.02073]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.009305]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.006838]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.009451]	0.1000	0.006965	ug/L	!ib
Magnesium	A	[4.707]	10.00	1.686	ug/L	!ib
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	[5.525]	10.00	2.504	ug/L	!ib
Silver	A	[0.004419]	0.1000	0.001856	ug/L	!ib
Thallium	A	ND	0.05000	0.0006370	ug/L	
Arsenic	E	ND	0.1000	0.007290	ug/L	
Chromium	E	[0.02443]	0.1000	0.002192	ug/L	!ib
Cobalt	E	ND	0.1000	0.001165	ug/L	
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	ND	0.1000	0.003304	ug/L	
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	ND	0.1000	0.004305	ug/L	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1663737	-11.36
Scandium	A	2317968	2180291	-5.94
Scandium	E	30178	28271	-6.32
Scandium	H	874916	855383	-2.23
Germanium	H	249754	239074	-4.28
Germanium	E	31707	29964	-5.50
Indium	A	3924878	3755176	-4.32
Bismuth	A	4696149	4453512	-5.17
Yttrium	A	3559300	3423164	-3.82
Terbium	A	6364815	6080596	-4.47

!=warning ib=instrument blank

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16
Seqnum : 897449933155 File : k08k0155
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7601, S7605

IDF : 1.0
Time : 09-NOV-2007 02:26

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3374	0.2886	10000	9624	ug/L	-4	10	
Antimony	A	0.1752	0.1599	100.0	99.44	ug/L	-1	10	
Barium	A	0.0356	0.0324	100.0	100.2	ug/L	0	10	
Beryllium	A	0.1438	0.1316	100.0	91.47	ug/L	-9	10	
Cadmium	A	0.0398	0.0367	100.0	95.47	ug/L	-5	10	
Calcium	A	0.0183	0.0098	10000	10120	ug/L	1	10	
Lead	A	0.4591	0.3809	100.0	96.39	ug/L	-4	10	
Magnesium	A	0.2769	0.2501	10000	9730	ug/L	-3	10	
Molybdenum	A	0.1086	0.0998	100.0	91.66	ug/L	-8	10	
Potassium	A	0.8625	0.3108	10000	10120	ug/L	1	10	
Silver	A	0.1820	0.1710	100.0	98.40	ug/L	-2	10	
Thallium	A	0.4476	0.4009	50.00	47.08	ug/L	-6	10	
Arsenic	E	0.3234	0.3048	100.0	98.38	ug/L	-2	10	
Chromium	E	4.1524	2.7038	100.0	96.57	ug/L	-3	10	
Cobalt	E	5.6351	5.1331	100.0	98.06	ug/L	-2	10	
Copper	E	8.0939	4.1387	100.0	93.31	ug/L	-7	10	
Manganese	E	1.0706	0.9019	100.0	96.44	ug/L	-4	10	
Nickel	E	2.4304	1.4961	100.0	96.18	ug/L	-4	10	
Sodium	E	0.6319	0.2531	10000	10150	ug/L	2	10	
Vanadium	E	2.1130	1.8400	100.0	96.69	ug/L	-3	10	
Zinc	E	2.3920	0.4869	100.0	92.17	ug/L	-8	10	
Iron	H	0.4623	0.4178	10000	9786	ug/L	-2	10	
Selenium	H	0.0640	0.0570	100.0	94.52	ug/L	-5	10	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1773491	-5.52
Scandium	A	2317968	2342990	1.08
Scandium	E	30178	30346	0.56
Scandium	H	874916	905645	3.51
Germanium	H	249754	250632	0.35
Germanium	E	31707	31872	0.52
Indium	A	3924878	3841095	-2.13
Bismuth	A	4696149	4389147	-6.54
Yttrium	A	3559300	3610888	1.45
Terbium	A	6364815	6255076	-1.72

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933157 File : k08k0157 Time : 09-NOV-2007 02:39
Cal : 897449933001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[5.225]	10.00	1.698	ug/L	!ib
Antimony	A	[0.03258]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.05824]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.03053]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.03162]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.06048]	0.1000	0.006965	ug/L	!ib
Magnesium	A	[6.789]	10.00	1.686	ug/L	!ib
Molybdenum	A	[0.03859]	0.1000	0.02655	ug/L	!ib
Potassium	A	[8.301]	10.00	2.504	ug/L	!ib
Silver	A	[0.03118]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.008486]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.04652]	0.1000	0.007290	ug/L	!ib
Chromium	E	[0.06716]	0.1000	0.002192	ug/L	!ib
Cobalt	E	[0.02626]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	[0.01362]	0.1000	0.009943	ug/L	!ib
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.05054]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.04144]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1815563	-3.28
Scandium	A	2317968	2378134	2.60
Scandium	E	30178	30459	0.93
Scandium	H	874916	791504	-9.53
Germanium	H	249754	229953	-7.93
Germanium	E	31707	32237	1.67
Indium	A	3924878	4005803	2.06
Bismuth	A	4696149	4637594	-1.25
Yttrium	A	3559300	3657324	2.75
Terbium	A	6364815	6360907	-0.06

!=warning ib=instrument blank

897449933157

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933160 File : k08k0160 Time : 09-NOV-2007 02:57
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7602, S7605

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.7270	0.1000	ug/L	
Barium	A	8.379	0.1000	ug/L	
Beryllium	A	[0.02130]	0.1000	ug/L	
Cadmium	A	1.255	0.1000	ug/L	
Lead	A	0.5365	0.1000	ug/L	
Silver	A	0.1952	0.1000	ug/L	
Thallium	A	1.178	0.05000	ug/L	
Arsenic	E	0.2428	0.1000	ug/L	
Chromium	E	1.552	0.1000	ug/L	
Cobalt	E	0.2899	0.1000	ug/L	
Copper	E	2.344	0.1000	ug/L	
Manganese	E	0.6787	0.1000	ug/L	
Nickel	E	[0]	0.1000	ug/L	
Vanadium	E	[0.04960]	0.1000	ug/L	
Zinc	E	15.51	0.1000	ug/L	
Selenium	H	[0.04680]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	97200	ug/L	97
Calcium	A	300000	306300	ug/L	102
Magnesium	A	100000	93980	ug/L	94
Molybdenum	A	2000	1929	ug/L	96
Potassium	A	100000	100500	ug/L	101
Sodium	E	250000	259100	ug/L	104
Iron	H	250000	243700	ug/L	97

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1877049	1551494	-17.34
Scandium	A	2317968	2203588	-4.93
Scandium	E	30178	28107	-6.86
Scandium	H	874916	818884	-6.40
Germanium	H	249754	216969	-13.13
Germanium	E	31707	28965	-8.65
Indium	A	3924878	3495947	-10.93
Bismuth	A	4696149	3782951	-19.45
Yttrium	A	3559300	3462833	-2.71
Terbium	A	6364815	5956015	-6.42

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897449933161 File : k08k0161 Time : 09-NOV-2007 03:03
Cal : 897449933001 Caldate : 08-NOV-2007
Standards: S7603, S7605

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	97990	ug/L	-2		
Cadmium	A	100.0	101.5	ug/L	2	20	
Calcium	A	300000	310000	ug/L	3		
Magnesium	A	100000	95000	ug/L	-5		
Molybdenum	A	2000	1941	ug/L	-3		
Potassium	A	100000	102900	ug/L	3		
Silver	A	50.00	47.59	ug/L	-5	20	
Arsenic	E	100.0	100.8	ug/L	1	20	
Chromium	E	200.0	186.0	ug/L	-7	20	
Cobalt	E	200.0	181.2	ug/L	-9	20	
Copper	E	200.0	166.8	ug/L	-17	20	
Manganese	E	200.0	187.4	ug/L	-6	20	
Nickel	E	200.0	174.8	ug/L	-13	20	
Sodium	E	250000	226800	ug/L	-9		
Vanadium	E	200.0	193.5	ug/L	-3	20	
Zinc	E	100.0	84.35	ug/L	-16	20	
Iron	H	250000	229500	ug/L	-8		
Selenium	H	100.0	98.02	ug/L	-2	20	

ISTD (ICALBLK k08k0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	874916	838525	-4.16
Scandium	A	2317968	2071433	-10.64
Scandium	E	30178	29982	-0.65
Germanium	H	249754	223185	-10.64
Germanium	E	31707	30714	-3.13
Indium	A	3924878	3292967	-16.10
Yttrium	A	3559300	3299178	-7.31

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 897449933

Date : 11/08/07
Sequence : MET16 k08k0

Reference : k08k0004
Analyzed : 11/08/07 11:12

#	Type	Sample ID	LI A	SC A	SC E	SC H	GE H	GE E	IN A	BI A	Y A	TB A
		IB+ICALBLK STD	1877049	2317968	30178	874916	249754	31707	3924878	4696149	3559300	6364815
		LOWER LIMIT	563115	695390	9053	262475	74926	9512	1177463	1408845	1067790	1909445
		UPPER LIMIT	2252459	2781562	36214	1049899	299704	38048	4709854	5635379	4271160	7637778
014	ICB		1977757	2512822	30444	952074	262426	31645	4141356	4824438	3781438	6666034
016	ICSA		1690569	2204616	32239	899658	234834	32185	3372902	3790629	3351544	5884879
017	ICSAB		1687661	2204133	32204	933791	242946	32288	3482920	3889161	3395548	6013140
023	BLANK	QC414162	1959575	2358061	30159	938944	259742	31392	3984898	4797661	3628390	6515059
024	BS	QC414163	1916411	2285226	31754	955113	256568	32420	3708495	4409449	3477948	6238916
025	BSD	QC414164	1892057	2284462	31427	960869	257554	32256	3679359	4303961	3461767	6187937
027	BLANK	QC414141	1955359	2340050	32634	931405	259582	33048	3921436	4663986	3552374	6384419
028	MSS	198954-001	1976529	2472015	31943	971031	267961	33252	4068464	4805462	3727814	6597779
029	SER	QC414146	1998640	2480519	33975	1008589	280101	35446	4063630	4869750	3753938	6542491
030	SAMPLE	198954-002	2013412	2479660	32703	978380	269461	33542	4067575	4841298	3787286	6540355
033	CCV		2017083	2643714	35581	1013143	276369	36138	4164112	4760971	3995153	6794203
035	CCB		2003750	2553740	33883	957061	270464	34730	4144649	4853605	3858297	6718603
037	ICSA		1701174	2223922	33627	1004260	255778	33195	3427342	3781542	3396040	5948676
038	ICSAB		1683793	2216928	33273	896070	236218	32964	3455469	3815215	3407132	5966225
043	MSS	198956-001	1966120	2626284	37476 *	1064124 *	249200	33601	3696499	4238730	3837110	6280960
044	SER	QC414009	2064921	2560731	32852	1000563	265206	32760	3957479	4520603	3823973	6480249
045	MS	QC414005	1814761	2411610	33837	1016637	239502	30333	3422157	3994016	3393279	5883540
046	MSD	QC414006	1902233	2562507	34281	1040011	238538	30730	3639531	4228395	3625097	6247518
047	PDS	QC414010	1847099	2540103	35643	1002025	239510	31918	3542106	4084367	3697006	6116771
049	MSS	198956-001	1829555	2472945	35929	1041959	245663	32141	3476579	3999234	3599273	5903737
050	MSS	198974-004	1699851	2146005	30577	926716	232698	29475	3351011	3943445	3337957	5777187
054	CCV		1925555	2458853	33890	888768	251550	34536	3896940	4481334	3722075	6412851
056	CCB		1977275	2467364	34817	992642	271942	35677	4046268	4717668	3743886	6490681
057	ICSA		1691760	2231600	32343	871841	230791	32234	3454593	3843650	3413564	6003528
058	ICSAB		1678357	2266864	32635	911519	238327	32844	3538105	3921434	3497364	6087698
063	BS	QC414274	1939829	2384088	33593	952257	258475	34637	3966686	4644516	3649263	6523704
064	BSD	QC414275	1962092	2402854	32955	973341	264594	33552	3980967	4662637	3684444	6504640
066	MSS	198975-001	1909661	2335732	31152	923706	251074	32278	3897670	4618984	3627713	6283073
067	SER	QC414278	1798640	2149489	33947	961294	261546	34690	3603290	4338044	3303354	5805891
068	MS	QC414276	2003969	2507842	33857	978544	270077	34845	4089099	4787798	3836183	6607957
069	MSD	QC414277	1975636	2479768	34485	970271	270383	35152	4122804	4743828	3803756	6583779
070	PDS	QC414279	1970760	2524861	34098	988431	266914	34540	4028382	4641968	3842083	6662454
074	CCV		1910389	2481265	33438	959466	265666	34272	3975158	4556856	3771066	6531600
077	CCB		1958756	2477648	33570	952686	266482	34480	4123532	4795901	3801559	6631900
079	SAMPLE	198975-002	2122542	2702205	36347 *	1007169	274915	37231	4356903	4971515	4113363	6920796
080	SAMPLE	198975-003	2061113	2606396	35921	987912	266120	36148	4114362	4737380	3895748	6691275
081	SAMPLE	199006-001	2073091	2598408	33966	959741	266771	34867	4159990	4833577	3917658	6682358
082	SAMPLE	198903-007	2017322	2537558	35369	953712	261088	35616	4118588	4751962	3833574	6489371
083	SAMPLE	199030-017	2014743	2577462	35459	966945	269993	36397	4252950	4911195	3945109	6817711
084	SAMPLE	199030-018	2063071	2612993	37313 *	986687	279101	38115 *	4290912	4954137	4006223	6875378
088	CCV		2001888	2572128	34282	940928	260947	34902	4081673	4682545	3865231	6682563
090	CCB		1961119	2481211	32986	912697	255998	33838	4054061	4745558	3764933	6480604
093	MS	QC414007	1731520	2198332	30535	874154	225800	29849	3399618	3909251	3388065	5813495
094	MSD	QC414008	1722068	2156618	31076	892392	234802	30766	3394348	3928897	3342337	5804780
095	SAMPLE	198956-003	1872614	2552063	37128 *	1022239	241086	33650	3608566	4151007	3800268	6172387
096	SAMPLE	198956-004	1807644	2660862	37728 *	1051959 *	231295	31747	3506215	4070216	3811863	6022782
097	SAMPLE	198956-005	1884215	2453959	34056	986890	246756	32774	3696936	4302788	3735920	6183185
100	SAMPLE	198956-006	1889259	2587004	36748 *	1007457	251518	34601	3819380	4415809	4003066	6309308

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 897449933

Date : 11/08/07
Sequence : MET16 k08k0

Reference : k08k0004
Analyzed : 11/08/07 11:12

#	Type	Sample ID	LI A	SC A	SC E	SC H	GE H	GE E	IN A	BI A	Y A	TB A
101	SAMPLE	198956-007	1829202	2509947	35763	1003233	252473	34321	3769120	4370276	3868725	6205263
102	SAMPLE	198956-008	1663602	2218589	31316	928952	231814	29938	3412352	3973015	3261062	5913031
103	SAMPLE	198956-009	1562480	2041633	32017	937337	233626	30363	3099178	3646224	2993777	5374098
104	SAMPLE	198956-010	1655635	2101701	30138	901044	226518	29383	3353082	3930165	3159789	5768936
108	CCV		1836462	2362909	32218	926865	258433	33720	3781693	4450734	3565609	6302710
111	CCB		1926210	2392637	32457	912088	256404	33765	4006934	4684783	3666997	6398463
113	SAMPLE	198956-012	1776739	2258979	31290	886328	230379	31102	3543808	4084298	3376692	5995734
114	SAMPLE	198956-013	1636246	2144330	30254	1086821 *	262255	29347	3329568	3866675	3191841	5712098
115	SAMPLE	198956-014	1753816	2257558	30719	893418	225748	29708	3522313	4011706	3370578	5991814
116	SAMPLE	198956-015	1690248	2215894	31268	918968	231549	30638	3416980	3890480	3267230	5814788
117	SAMPLE	198974-001	1769320	2410804	33070	970201	240452	31229	3562214	4181361	3633277	6058141
118	SAMPLE	198974-002	1684792	2240100	30376	935224	230525	29331	3419009	4015330	3324732	5979130
119	SAMPLE	198974-003	1623378	2263196	31046	959540	235324	29154	3429937	3986190	3411819	5865603
123	CCV		1838554	2343243	30993	905040	248029	32696	3819149	4462307	3597767	6337568
125	CCB		1863425	2323632	30190	905292	249842	31805	3887469	4578127	3548861	6254909
128	ICSA		1599421	2203742	30766	837778	219616	31191	3441623	3817777	3423106	5941682
129	ICSAB		1582612	2179642	30926	833887	222807	31220	3467469	3807071	3414990	5942578
133	MSS	198975-001	1755968	2475819	33450	1011776	248032	32286	3735063	4378933	3933910	6288401
134	SER	QC414278	1840883	2432474	31811	946857	252019	32869	3945108	4620556	3774498	6437262
135	MS	QC414276	1740142	2550858	33852	981155	239663	31695	3746509	4338527	4046442	6282448
136	MSD	QC414277	1762989	2576586	35711	1017273	251310	33667	3807619	4420121	4063671	6374949
137	PDS	QC414279	1701312	2543814	34234	1013957	249070	32371	3736042	4315332	4036708	6309466
138	SAMPLE	198975-002	1738444	2497503	34197	1019628	249614	32603	3750278	4356246	4128947	6226314
139	SAMPLE	198975-003	1600981	2509345	33661	1035516	226939	28717	3368690	3958733	3677034	5823713
140	SAMPLE	199006-001	1676853	2381487	31835	952095	236787	30592	3602075	4274607	3739490	5936291
144	CCV		1680623	2278780	30557	869787	239631	31809	3752062	4388620	3550498	6194123
147	CCB		1663737	2180291	28271	855383	239074	29964	3755176	4453512	3423164	6080596
149	SAMPLE	198903-007	1780712	2527234	32599	952752	244578	31850	3895887	4527479	3938108	6311688
150	SAMPLE	199030-017	1716648	2298147	30483	920217	245957	31671	3791383	4524875	3643194	6192646
151	SAMPLE	199030-018	1815134	2375180	31942	954334	262222	33237	3880503	4546434	3731911	6327414
155	CCV		1773491	2342990	30346	905645	250632	31872	3841095	4389147	3610888	6255076
157	CCB		1815563	2378134	30459	791504	229953	32237	4005803	4637594	3657324	6360907
160	ICSA		1551494	2203588	28107	818884	216969	28965	3495947	3782951	3462833	5956015
161	ICSAB		1443448	2071433	29982	838525	223185	30714	3292967	3633052	3299178	5600065

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897449933 Instrument: MET16 Agilent ICP-MS MET16 Begun: 08-NOV-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL		Stds Used	>LR
001	k08k0001	TUN				08-NOV-2007 10:53	1.0	1.0				1	
002	k08k0002	X	RINSE			08-NOV-2007 11:01	1.0					2	
003	k08k0003	X	RINSE			08-NOV-2007 11:07	1.0					2	
004	k08k0004	ICALBLK	CALBLANK			08-NOV-2007 11:12	1.0	1.0				2	
005	k08k0005	ICAL				08-NOV-2007 11:18	1.0	1.0				3 2	
006	k08k0006	ICAL				08-NOV-2007 11:24	1.0	1.0				4 2	
007	k08k0007	ICAL				08-NOV-2007 11:30	1.0	1.0				5 2	
008	k08k0008	ICAL				08-NOV-2007 11:36	1.0	1.0				6 2	
009	k08k0009	ICAL				08-NOV-2007 11:42	1.0	1.0				7 2	
010	k08k0010	ICAL				08-NOV-2007 11:48	1.0	1.0				8 2	
011	k08k0011	X	RINSE			08-NOV-2007 11:55	1.0					2	
012	k08k0012	ICV				08-NOV-2007 12:01	1.0	1.0			1	9 2	
013	k08k0013	X	RINSE			08-NOV-2007 12:08	1.0					2	
014	k08k0014	ICB				08-NOV-2007 12:14	1.0	1.0			1	2	
015	k08k0015	X				08-NOV-2007 12:20	1.0					2	
016	k08k0016	ICSA				08-NOV-2007 12:26	1.0	1.0			1	10 2	7:CA=316000
017	k08k0017	ICSAB				08-NOV-2007 12:32	1.0	1.0			1	11 2	8:CA=295400
018	k08k0018	X	RINSE			08-NOV-2007 12:38	1.0	1.0	1		1	2	
019	k08k0019	X	RINSE			08-NOV-2007 12:44	1.0					2	
020	k08k0020	X	RINSE			08-NOV-2007 12:50	1.0					2	
021	k08k0021	X	RINSE			08-NOV-2007 12:56	1.0					2	
022	k08k0022	XBLANK	QC414141	131418	Water	08-NOV-2007 13:02	1.0	1.0	5		1	2	
023	k08k0023	BLANK	QC414162	131423	Filtra	08-NOV-2007 13:08	1.0	1.0			1	2	
024	k08k0024	BS	QC414163	131423	Filtra	08-NOV-2007 13:13	1.0	1.0			1	2	
025	k08k0025	BSD	QC414164	131423	Filtra	08-NOV-2007 13:20	1.0	1.0			1	2	
026	k08k0026	X	RINSE			08-NOV-2007 13:26	1.0					2	
027	k08k0027	BLANK	QC414141	131418	Water	08-NOV-2007 13:32	1.0	1.0	4		1	2	
028	k08k0028	MSS	198954-001	131418	Water	08-NOV-2007 13:38	5.0	1.0	1		1	2	1:CA=29420.0
029	k08k0029	SER	QC414146	131418	Water	08-NOV-2007 13:44	25.0	1.0		4	1	2	
030	k08k0030	SAMPLE	198954-002	131418	Water	08-NOV-2007 13:50	5.0	1.0			1	2	2:ZN=360.000
31	k08k0031	X	RINSE			08-NOV-2007 13:56	1.0					2	

Stds used: 1=S7593 2=S7605 3=S7596 4=S7597 5=S7598 6=S7599 7=S7594 8=S7595 9=S7600 10=S7602 11=S7603 12=S7601 13=S7477 14=S7478

Analyst: _____ Date: 11/9/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897449933 Instrument: MET16 Agilent ICP-MS MET16 Begun: 08-NOV-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	k08k0032	X	RINSE			08-NOV-2007 14:02	1.0					2	
033	k08k0033	CCV				08-NOV-2007 14:08	1.0	1.0			1	12 2	
034	k08k0034	X	RINSE			08-NOV-2007 14:14	1.0					2	
035	k08k0035	CCB				08-NOV-2007 14:20	1.0	1.0			1	2	
036	k08k0036	X				08-NOV-2007 14:25	1.0					2	
037	k08k0037	ICSA				08-NOV-2007 14:31	1.0	1.0			1	10 2	7:CA=321600
038	k08k0038	ICSAB				08-NOV-2007 14:37	1.0	1.0			1	11 2	7:CA=296200
039	k08k0039	X	RINSE			08-NOV-2007 14:43	1.0					2	
040	k08k0040	X	RINSE			08-NOV-2007 14:53	1.0					2	
041	k08k0041	X	RINSE			08-NOV-2007 14:59	1.0					2	
042	k08k0042	X	RINSE			08-NOV-2007 15:05	1.0					2	
043	k08k0043	MSS	198956-001	131386	Soil	08-NOV-2007 15:11	10.0	47.17	9		1	2	6:MG=177600
044	k08k0044	SER	QC414009	131386	Soil	08-NOV-2007 15:16	50.0	47.17	1	7	1	2	3:MG=39600.0
045	k08k0045	MS	QC414005	131386	Soil	08-NOV-2007 15:22	10.0	44.64		7	1	2	5:MG=231400
046	k08k0046	MSD	QC414006	131386	Soil	08-NOV-2007 15:28	10.0	47.17		5	1	2	5:MG=209700
047	k08k0047	PDS	QC414010	131386	Soil	08-NOV-2007 15:35	10.0	47.17	2		1	13 14 2	8:MG=18540(
048	k08k0048	X	RINSE			08-NOV-2007 15:42	1.0					2	
049	k08k0049	MSS	198956-001	131386	Soil	08-NOV-2007 15:48	10.0	47.17	6		1	2	6:MG=182700
050	k08k0050	MSS	198974-004	131386	Soil	08-NOV-2007 15:54	10.0	44.64	5		1	2	4:FE=67840.0
051	k08k0051	X	RINSE			08-NOV-2007 16:02	1.0					2	
052	k08k0052	X	RINSE			08-NOV-2007 16:08	1.0					2	
053	k08k0053	X	RINSE			08-NOV-2007 16:14	1.0					2	
054	k08k0054	CCV				08-NOV-2007 16:20	1.0	1.0			1	12 2	
055	k08k0055	X	RINSE			08-NOV-2007 16:27	1.0					2	
056	k08k0056	CCB				08-NOV-2007 16:33	1.0	1.0			1	2	
057	k08k0057	ICSA				08-NOV-2007 16:40	1.0	1.0			1	10 2	7:CA=311900
058	k08k0058	ICSAB				08-NOV-2007 16:46	1.0	1.0			1	11 2	7:CA=292000
059	k08k0059	X	RINSE			08-NOV-2007 16:52	1.0					2	
060	k08k0060	X	RINSE			08-NOV-2007 16:58	1.0					2	
061	k08k0061	X	RINSE			08-NOV-2007 17:03	1.0					2	
062	k08k0062	XBLANK	NO SAMPLE	131447	Soil	08-NOV-2007 17:09	5.0	50.0	23		1	2	

Stds used: 1=S7593 2=S7605 3=S7596 4=S7597 5=S7598 6=S7599 7=S7594 8=S7595 9=S7600 10=S7602 11=S7603 12=S7601 13=S7477 14=S7478

Analyst: _____ Date: 11/9/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897449933 Instrument: MET16 Agilent ICP-MS MET16 Begun: 08-NOV-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	k08k0063	BS	QC414274	131447	Soil	08-NOV-2007 17:15	10.0	50.0			1	2	
064	k08k0064	BSD	QC414275	131447	Soil	08-NOV-2007 17:23	10.0	50.0			1	2	
065	k08k0065	X	RINSE			08-NOV-2007 17:30	1.0					2	
066	k08k0066	MSS	198975-001	131447	Soil	08-NOV-2007 17:36	200.0	49.02			1	2	
067	k08k0067	SER	QC414278	131447	Soil	08-NOV-2007 17:42	1000	49.02	2	4	1	2	
068	k08k0068	MS	QC414276	131447	Soil	08-NOV-2007 17:48	200.0	45.05		1	1	2	
069	k08k0069	MSD	QC414277	131447	Soil	08-NOV-2007 17:54	200.0	49.50		2	1	2	
070	k08k0070	PDS	QC414279	131447	Soil	08-NOV-2007 18:00	200.0	49.02		2	1	13 14 2	
071	k08k0071	X	RINSE			08-NOV-2007 18:06	1.0					2	
072	k08k0072	X	RINSE			08-NOV-2007 18:12	1.0					2	
073	k08k0073	X	RINSE			08-NOV-2007 18:18	1.0					2	
074	k08k0074	CCV				08-NOV-2007 18:23	1.0	1.0			1	12 2	
075	k08k0075	X	RINSE			08-NOV-2007 18:30	1.0					2	
076	k08k0076	X				08-NOV-2007 18:35	1.0					2	
077	k08k0077	CCB				08-NOV-2007 18:41	1.0	1.0			1	2	
078	k08k0078	X				08-NOV-2007 18:47	1.0					2	
079	k08k0079	SAMPLE	198975-002	131447	Soil	08-NOV-2007 18:53	200.0	46.30	4		1	2	
080	k08k0080	SAMPLE	198975-003	131447	Soil	08-NOV-2007 18:59	200.0	45.87			1	2	
081	k08k0081	SAMPLE	199006-001	131447	Soil	08-NOV-2007 19:05	200.0	49.02			1	2	
082	k08k0082	SAMPLE	198903-007	131447	Soil	08-NOV-2007 19:11	200.0	45.05			1	2	
083	k08k0083	SAMPLE	199030-017	131447	Soil	08-NOV-2007 19:17	200.0	48.08			1	2	
084	k08k0084	SAMPLE	199030-018	131447	Soil	08-NOV-2007 19:22	200.0	48.54	7		1	2	
085	k08k0085	X	RINSE			08-NOV-2007 19:28	1.0					2	
086	k08k0086	X	RINSE			08-NOV-2007 19:34	1.0					2	
087	k08k0087	X	RINSE			08-NOV-2007 19:40	1.0					2	
088	k08k0088	CCV				08-NOV-2007 19:46	1.0	1.0			1	12 2	
089	k08k0089	X	RINSE			08-NOV-2007 19:53	1.0					2	
090	k08k0090	CCB				08-NOV-2007 19:59	1.0	1.0			1	2	
091	k08k0091	X				08-NOV-2007 20:04	1.0					2	
092	k08k0092	X				08-NOV-2007 20:10	1.0					2	
093	k08k0093	MS	QC414007	131386	Soil	08-NOV-2007 20:16	10.0	49.50	2		1	2	5:FE=78150.0

Stds used: 1=S7593 2=S7605 3=S7596 4=S7597 5=S7598 6=S7599 7=S7594 8=S7595 9=S7600 10=S7602 11=S7603 12=S7601 13=S7477 14=S7478

Analyst: _____ Date: 11/9/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897449933 Instrument: MET16 Agilent ICP-MS MET16 Begun: 08-NOV-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	k08k0094	MSD	QC414008	131386	Soil	08-NOV-2007 20:23	10.0	50.0	1	1	2	4:FE=61140.0
095	k08k0095	SAMPLE	198956-003	131386	Soil	08-NOV-2007 20:30	10.0	46.30	4	1	2	7:MG=128900
096	k08k0096	SAMPLE	198956-004	131386	Soil	08-NOV-2007 20:35	10.0	47.62	4	1	2	6:MG=114400
097	k08k0097	SAMPLE	198956-005	131386	Soil	08-NOV-2007 20:41	10.0	47.17	2	1	2	6:FE=47900.0
098	k08k0098	TUN				08-NOV-2007 20:46	1.0	1.0			1	
099	k08k0099	X	RINSE			08-NOV-2007 20:54	1.0				2	
100	k08k0100	SAMPLE	198956-006	131386	Soil	08-NOV-2007 21:00	10.0	46.30	4	1	2	4:FE=76120.0
101	k08k0101	SAMPLE	198956-007	131386	Soil	08-NOV-2007 21:06	10.0	45.87		1	2	4:FE=69950.0
102	k08k0102	SAMPLE	198956-008	131386	Soil	08-NOV-2007 21:12	10.0	44.64	2	1	2	4:FE=63840.0
103	k08k0103	SAMPLE	198956-009	131386	Soil	08-NOV-2007 21:17	10.0	45.45	2	1	2	4:FE=61110.0
104	k08k0104	SAMPLE	198956-010	131386	Soil	08-NOV-2007 21:23	10.0	45.87	3	1	2	5:FE=93890.0
105	k08k0105	X	RINSE			08-NOV-2007 21:29	1.0				2	
106	k08k0106	X	RINSE			08-NOV-2007 21:35	1.0				2	
107	k08k0107	X	RINSE			08-NOV-2007 21:41	1.0				2	
108	k08k0108	CCV				08-NOV-2007 21:47	1.0	1.0		1	12 2	
109	k08k0109	X	RINSE			08-NOV-2007 21:53	1.0				2	
110	k08k0110	X				08-NOV-2007 21:59	1.0				2	
111	k08k0111	CCB				08-NOV-2007 22:05	1.0	1.0	1	1	2	
112	k08k0112	X				08-NOV-2007 22:10	1.0				2	
113	k08k0113	SAMPLE	198956-012	131386	Soil	08-NOV-2007 22:16	10.0	48.54	2	1	2	5:MG=213700
114	k08k0114	SAMPLE	198956-013	131386	Soil	08-NOV-2007 22:22	10.0	49.02	2	1	2	4:FE=56170.0
115	k08k0115	SAMPLE	198956-014	131386	Soil	08-NOV-2007 22:28	10.0	45.87	2	1	2	4:FE=59690.0
116	k08k0116	SAMPLE	198956-015	131386	Soil	08-NOV-2007 22:34	10.0	47.17	2	1	2	4:FE=59620.0
117	k08k0117	SAMPLE	198974-001	131386	Soil	08-NOV-2007 22:40	10.0	49.02	2	1	2	6:MG=92420.0
118	k08k0118	SAMPLE	198974-002	131386	Soil	08-NOV-2007 22:45	10.0	50.0	2	1	2	4:FE=61910.0
119	k08k0119	SAMPLE	198974-003	131386	Soil	08-NOV-2007 22:51	10.0	47.17	2	1	2	5:MG=163500
120	k08k0120	X	RINSE			08-NOV-2007 22:57	1.0				2	
121	k08k0121	X	RINSE			08-NOV-2007 23:03	1.0				2	
122	k08k0122	X	RINSE			08-NOV-2007 23:09	1.0				2	
123	k08k0123	CCV				08-NOV-2007 23:15	1.0	1.0		1	12 2	
124	k08k0124	X	RINSE			08-NOV-2007 23:21	1.0				2	

Stds used: 1=S7593 2=S7605 3=S7596 4=S7597 5=S7598 6=S7599 7=S7594 8=S7595 9=S7600 10=S7602 11=S7603 12=S7601 13=S7477 14=S7478

Analyst: _____ Date: 11/9/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897449933 Instrument: MET16 Agilent ICP-MS MET16 Begun: 08-NOV-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
125	k08k0125	CCB				08-NOV-2007 23:27	1.0	1.0			1	2	
126	k08k0126	X				08-NOV-2007 23:33	1.0					2	
127	k08k0127	X				08-NOV-2007 23:39	1.0					2	
128	k08k0128	ICSA				08-NOV-2007 23:45	1.0	1.0			1	10 2	7:CA=304100
129	k08k0129	ICSAB				08-NOV-2007 23:51	1.0	1.0			1	11 2	7:CA=294300
130	k08k0130	X	RINSE			08-NOV-2007 23:57	1.0					2	
131	k08k0131	X	RINSE			09-NOV-2007 00:03	1.0					2	
132	k08k0132	X	RINSE			09-NOV-2007 00:09	1.0					2	
133	k08k0133	MSS	198975-001	131447	Soil	09-NOV-2007 00:14	10.0	49.02	4		1	2	4:FE=70530.0
134	k08k0134	SER	QC414278	131447	Soil	09-NOV-2007 00:20	50.0	49.02		6	1	2	1:MN=253.800
135	k08k0135	MS	QC414276	131447	Soil	09-NOV-2007 00:26	10.0	45.05	1	6	1	2	7:FE=85120.0
136	k08k0136	MSD	QC414277	131447	Soil	09-NOV-2007 00:33	10.0	49.50	2	6	1	2	6:FE=70970.0
137	k08k0137	PDS	QC414279	131447	Soil	09-NOV-2007 00:39	10.0	49.02	4		1	13 14 2	8:FE=78280.0
138	k08k0138	SAMPLE	198975-002	131447	Soil	09-NOV-2007 00:45	10.0	46.30	1		1	2	4:FE=70100.0
139	k08k0139	SAMPLE	198975-003	131447	Soil	09-NOV-2007 00:51	10.0	45.87	2		1	2	6:MG=119600
140	k08k0140	SAMPLE	199006-001	131447	Soil	09-NOV-2007 00:57	10.0	49.02	3		1	2	3:FE=34280.0
141	k08k0141	X	RINSE			09-NOV-2007 01:03	1.0					2	
142	k08k0142	X	RINSE			09-NOV-2007 01:09	1.0					2	
143	k08k0143	X	RINSE			09-NOV-2007 01:15	1.0					2	
144	k08k0144	CCV				09-NOV-2007 01:21	1.0	1.0			1	12 2	
145	k08k0145	X	RINSE			09-NOV-2007 01:27	1.0					2	
146	k08k0146	X				09-NOV-2007 01:33	1.0					2	
147	k08k0147	CCB				09-NOV-2007 01:39	1.0	1.0			1	2	
148	k08k0148	X				09-NOV-2007 01:45	1.0					2	
149	k08k0149	SAMPLE	198903-007	131447	Soil	09-NOV-2007 01:51	10.0	45.05			1	2	2:FE=29170.0
150	k08k0150	SAMPLE	199030-017	131447	Soil	09-NOV-2007 01:57	10.0	48.08	3		1	2	6:CA=28990.0
151	k08k0151	SAMPLE	199030-018	131447	Soil	09-NOV-2007 02:03	10.0	48.54			1	2	
152	k08k0152	X	RINSE			09-NOV-2007 02:09	1.0					2	
153	k08k0153	X	RINSE			09-NOV-2007 02:15	1.0					2	
154	k08k0154	X	RINSE			09-NOV-2007 02:21	1.0					2	
155	k08k0155	CCV				09-NOV-2007 02:26	1.0	1.0			1	12 2	

Stds used: 1=S7593 2=S7605 3=S7596 4=S7597 5=S7598 6=S7599 7=S7594 8=S7595 9=S7600 10=S7602 11=S7603 12=S7601 13=S7477 14=S7478

Analyst: _____ Date: 11/9/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897449933 Instrument: MET16 Agilent ICP-MS MET16 Begun: 08-NOV-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
156	k08k0156	X	RINSE			09-NOV-2007 02:33	1.0			2	
157	k08k0157	CCB				09-NOV-2007 02:39	1.0	1.0	1	2	
158	k08k0158	X				09-NOV-2007 02:45	1.0			2	
159	k08k0159	X				09-NOV-2007 02:51	1.0			2	
160	k08k0160	ICSA				09-NOV-2007 02:57	1.0	1.0	1	10 2	7:CA=306300
161	k08k0161	ICSAB				09-NOV-2007 03:03	1.0	1.0	1	11 2	7:CA=310000

Stds used: 1=S7593 2=S7605 3=S7596 4=S7597 5=S7598 6=S7599 7=S7594 8=S7595 9=S7600 10=S7602 11=S7603 12=S7601 13=S7477 14=S7478

Analyst: _____ Date: 11/9/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET16
Calnum : 897451405001
Units : ug/L

Date : 09-NOV-2007 11:44
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	k0910005	897451405005		09-NOV-2007 11:50	S7596, S7605
L2	k0910006	897451405006		09-NOV-2007 11:56	S7597, S7605
L3	k0910007	897451405007		09-NOV-2007 12:02	S7598, S7605
L4	k0910008	897451405008		09-NOV-2007 12:08	S7599, S7605
L5	k0910009	897451405009		09-NOV-2007 12:14	S7594, S7605
L6	k0910010	897451405010		09-NOV-2007 12:20	S7595, S7605

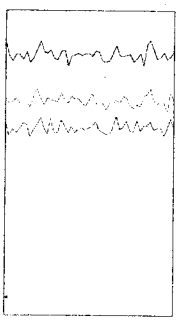
Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum	A	0.4535	0.3616	0.3171	0.2867	0.2819	0.2886	BLNK	-4.0929	3.48161		0.3316	1.000	0.995	
Antimony	A	0.2589	0.1925	0.1663	0.1516	0.1594	0.1605	BLNK	-0.0610	6.24117		0.1815	1.000	0.995	
Barium	A	0.0526	0.0418	0.0367	0.0337	0.0334	0.0340	BLNK	-0.0247	29.4867		0.0387	1.000	0.995	
Beryllium	A	0.1450	0.1438	0.1354	0.1352	0.1346	0.1279	BLNK	-0.0048	7.73588		0.1370	0.999	0.995	
Cadmium	A	0.0422	0.0439	0.0388	0.0384	0.0382	0.0386	BLNK	-0.0028	25.9780		0.0400	1.000	0.995	
Calcium	A	0.0321	0.0156	0.0125	0.0097	0.0097	0.0097	BLNK	-20.840	102.992		0.0149	1.000	0.995	
Lead	A	0.7084	0.4991	0.4371	0.3885	0.3887	0.3925	BLNK	-0.0624	2.55402		0.4690	1.000	0.995	
Magnesium	A	0.4745	0.3420	0.2782	0.2460	0.2398	0.2440	BLNK	-8.8385	4.11490		0.3041	1.000	0.995	
Molybdenum	A	0.1169	0.1168	0.1053	0.1027	0.1039	0.1108	BLNK	-0.0271	9.14018		0.1094	0.999	0.995	
Potassium	A	3.4227	1.0229	0.6317	0.3361	0.3048	0.3080	BLNK	-102.65	3.27370		1.0044	1.000	0.995	
Silver	A	0.1993	0.1929	0.1770	0.1747	0.1748	0.1705	BLNK	-0.0075	5.83414		0.1816	1.000	0.995	
Thallium	A	0.4822	0.4474	0.4099	0.3950	0.4188	0.4210	BLNK	-0.0106	2.37826		0.4290	1.000	0.995	
Arsenic	E	0.3314	0.3542	0.3126	0.3134	0.3099	0.3118	BLNK	-0.0172	3.21149		0.3222	1.000	0.995	
Chromium	E	9.1000	4.1105	3.5925	2.9729	2.7773	2.8102	BLNK	-1.2849	0.35948		4.2272	1.000	0.995	
Cobalt	E	6.1453	5.5663	5.5132	5.5879	5.2644	5.2803	BLNK	-0.0201	0.18950		5.5596	1.000	0.995	
Copper	E	18.117	6.2386	5.8401	4.6924	4.2755	4.2029	BLNK	-0.1891	0.23733		7.2277	1.000	0.995	
Manganese	E	2.1814	1.2182	1.1206	0.9983	0.9503	0.9537	BLNK	-0.1229	1.04996		1.2371	1.000	0.995	
Nickel	E	5.2851	2.3009	2.0188	1.6674	1.5488	1.5361	BLNK	-0.2914	0.65099		2.3929	1.000	0.995	
Sodium	E	1.7582	0.5520	0.4080	0.2816	0.2427	0.2397	BLNK	-57.382	4.17414		0.5804	1.000	0.995	
Vanadium	E	2.5416	2.0738	2.0206	1.9588	1.9037	1.9190	BLNK	-0.0361	0.52204		2.0696	1.000	0.995	
Zinc	E	8.1696	2.2696	2.7712	0.8158	0.5217	0.5185	BLNK	-0.6739	1.93181		2.5111	0.999	0.995	
Iron	H	0.6856	0.5107	0.4967	0.4335	0.4552	0.4452	BLNK	-9.8149	2.23764		0.5045	1.000	0.995	
Selenium	H	0.0696	0.0574	0.0614	0.0606	0.0633	0.0628	BLNK	-0.0070	15.8998		0.0625	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Aluminum	A	10.00	17	50.00	18	100.0	6	1000	-1	10000	-2	20000	0
Antimony	A	0.100	1	0.500	8	1.000	-2	10.00	-5	100.0	-1	200.0	0
Barium	A	0.100	30	0.500	18	1.000	6	10.00	-1	100.0	-2	200.0	0
Beryllium	A	0.100	7	0.500	10	1.000	4	10.00	5	100.0	4	200.0	-1
Cadmium	A	0.100	7	0.500	14	1.000	0	10.00	0	100.0	-1	200.0	0
Calcium	A	10.00	22	50.00	19	100.0	8	1000	-2	10000	-1	20000	0
Lead	A	0.100	18	0.500	15	1.000	5	10.00	-1	100.0	-1	200.0	0
Magnesium	A	10.00	7	50.00	23	100.0	6	1000	0	10000	-1	20000	0
Molybdenum	A	0.100	-20	0.500	1	1.000	-7	10.00	-6	100.0	-5	200.0	1
Potassium	A	10.00	-6	50.00	30	100.0	4	1000	0	10000	-1	20000	0
Silver	A	0.100	9	0.500	11	1.000	3	10.00	2	100.0	2	200.0	-1
Thallium	A	0.050	-7	0.250	2	0.500	-5	5.000	-6	50.00	0	100.0	0
Arsenic	E	0.100	-11	0.500	10	1.000	-1	10.00	0	100.0	0	200.0	0
Chromium	E	0.100	-1058	0.500	-209	1.000	-99	10.00	-6	100.0	-1	200.0	0
Cobalt	E	0.100	-4	0.500	1	1.000	2	10.00	6	100.0	0	200.0	0
Copper	E	0.100	141	0.500	10	1.000	20	10.00	9	100.0	1	200.0	0
Manganese	E	0.100	6	0.500	3	1.000	5	10.00	4	100.0	0	200.0	0
Nickel	E	0.100	-47	0.500	-9	1.000	2	10.00	6	100.0	1	200.0	0
Sodium	E	10.00	60	50.00	16	100.0	13	1000	12	10000	1	20000	0
Vanadium	E	0.100	-3	0.500	1	1.000	2	10.00	2	100.0	-1	200.0	0
Zinc	E	0.100	804	0.500	204	1.000	368	10.00	51	100.0	0	200.0	0
Iron	H	10.00	-45	50.00	-5	100.0	1	1000	-4	10000	2	20000	0
Selenium	H	0.100	4	0.500	-10	1.000	-3	10.00	-4	100.0	1	200.0	0

SGS

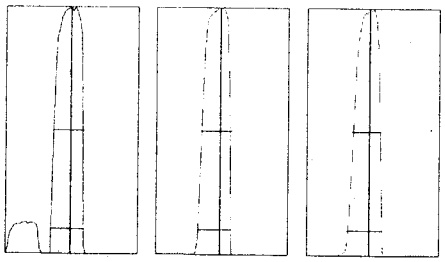
Tune Report

Tune File : nogas.u
Comment :



m/z	Range	Count	Mean	RSD%	Background
7	20,000	17371.0	17095.7	2.26	1.20
89	50,000	30526.0	30675.5	2.84	1.50
205	50,000	35052.0	35127.9	2.29	4.40

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec
n: 50
Oxide: 156/140 1.074%
Doubly Charged: 70/140 1.274%



m/z:	7	89	205
Height:	17,415	31,196	36,142
Axis:	7.00	89.00	204.95
W-50%:	0.70	0.70	0.65
W-10%:	0.7500	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec
Y axis : Linear

===Plasma Condition===

RF Power	:	1600 W
RF Matching	:	1.72 V
Smpl Depth	:	8 mm
Torch-H	:	0.2 mm
Torch-V	:	-0.6 mm
Carrier Gas	:	1.05 L/min
Makeup Gas	:	0 L/min
Optional Gas	:	--- %
Nebulizer Pump	:	0.1 rps
Sample Pump	:	--- rps
S/C Temp	:	2 degC

===Ion Lenses===

Extract 1	:	0 V
Extract 2	:	-140 V
Omega Bias-ce	:	-30 V
Omega Lens-ce	:	-1 V
Cell Entrance	:	-30 V
QP Focus	:	8 V
Cell Exit	:	-30 V

===Octopole Parameters===

OctP RF	:	180 V
OctP Bias	:	-6 V

===Q-Pole Parameters===

AMU Gain	:	124
AMU Offset	:	126
Axis Gain	:	0.9993
Axis Offset	:	0.03
QP Bias	:	-1 V

===Detector Parameters===

Discriminator	:	8 mV
Analog HV	:	1780 V
Pulse HV	:	1460 V

===Reaction Cell===
Reaction Mode : OFF
H2 Gas : 0 mL/min He Gas : 0 mL/min Optional Gas : --- %

Tune File : he.u
He Gas: 6 mL/min
Optional Gas: --- %
QP Focus: -10 V
Cell Exit: -38 V
OctP Bias: -18 V
QP Bias: -16 V

m/z	Count(Mean)	RSD%
51	3.6	56.80
59	2970.4	3.03
89	1882.1	3.52

Integration Time: 0.1000sec

Tune File : h2.u
H2 Gas: 4 mL/min
Optional Gas: --- %
QP Focus: -10 V
Cell Exit: -38 V
OctP Bias: -18 V
QP Bias: -16 V

m/z	Count(Mean)	RSD%
59	2688.1	3.22
78	0.2	247.44
89	24200.9	2.56

Integration Time: 0.1000sec

Generated : Nov 09, 2007 10:53:18
Printed : Nov 09, 2007 10:54:57

00499

P/A Factor Tuning Report

Acquired:Nov 9 2007 11:04 am

Mass[amu]	Element	P/A Factor
6	Li	0.058095
7	(Li)	Sensitivity too low
9	Be	Sensitivity too low
23	Na	Sensitivity too high
24	Mg	Sensitivity too high
27	Al	Sensitivity too high
39	K	Sensitivity too high
44	Ca	0.084744
45	Sc	0.083549
51	V	0.085148
52	Cr	0.089041
55	Mn	0.091018
56	Fe	Sensitivity too high
59	Co	0.094971
60	Ni	Sensitivity too low
63	Cu	0.101406
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	0.098434
75	As	Sensitivity too low
78	Se	Sensitivity too low
89	Y	0.096659
98	Mo	0.096838
99	(Ru)	Sensitivity too low
107	Ag	0.107434
111	Cd	Sensitivity too low
115	In	0.106950
118	(In)	0.106288
121	Sb	0.105347
137	Ba	Sensitivity too low
159	Tb	0.109929
205	Tl	0.117534
206	(Pb)	0.117411
207	(Pb)	0.117975
208	Pb	0.118134
209	Bi	0.119071

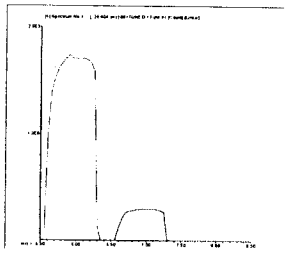
===Detector Parameters===
Discriminator: 8.0 mV
Analog HV: 1780 V
Pulse HV: 1460 V

MET16 QC Tune Report

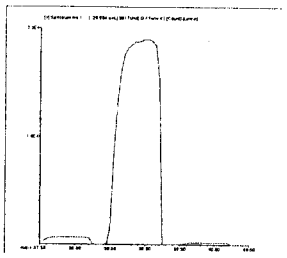
Data File: C:\ICPCHEM\1\DATA\07K09100.B\001TUNE.D
Date Acquired: Nov 9 2007 11:25 am
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s7593
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

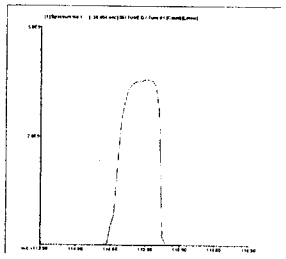
Element	Actual	Required	Flag
7 Li	0.87	5.00	
59 Co	1.10	5.00	
115 In	1.05	5.00	
205 Tl	1.83	5.00	



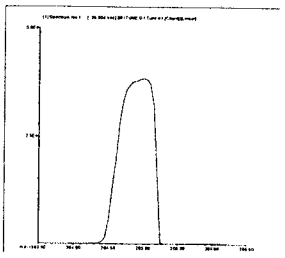
7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 204.95
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K09100.B\002BLNK.D\002BLNK.D#
Date Acquired: Nov 9 2007 11:30 am
Acq. Method: lcj6020.M
Operator:
Sample Name: rinse
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 08 2007 11:51 am
Sample Type: 6-Blank
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	0.0023	1.570917E-03	53.34	ppb	149.72	
23 Na	45	2	-12.7600	1.413675E+01	6766.11	ppb	4.57	
24 Mg	45	3	7.5760	2.504172E+00	104205.90	ppb	3.75	
27 Al	45	3	0.9870	1.438157E+00	59885.46	ppb	38.00	
39 K	45	3	20.4900	3.113837E+01	1295304.00	ppb	3.42	
44 Ca	45	3	-17.2600	2.199245E-01	9148.58	ppb	3.80	
51 V	45	2	-0.0045	9.269295E-02	44.45	ppb	329.90	
52 Cr	45	2	1.0920	3.771975E+00	1805.31	ppb	6.48	
55 Mn	45	2	0.0536	1.316702E-01	62.96	ppb	39.34	
56 Fe	45	1	3.3530	4.572547E+00	79247.57	ppb	3.95	
59 Co	45	2	0.0012	1.029078E-01	49.26	ppb	101.97	
60 Ni	45	2	-1.9450	4.838395E-01	231.49	ppb	1.75	
63 Cu	72	2	-0.1304	8.201795E-01	420.75	ppb	2.32	
66 Zn	72	2	-0.2741	3.525334E-01	180.74	ppb	19.96	
75 As	72	2	0.0032	5.204082E-03	2.67	ppb	134.04	
78 Se	72	1	-0.0019	5.978314E-04	3.11	ppb	152.08	
98 Mo	89	3	0.0192	4.271882E-03	284.46	ppb	20.69	
107 Ag	115	3	0.0021	2.148123E-03	155.56	ppb	114.08	
111 Cd	115	3	0.0029	3.369436E-04	24.45	ppb	168.81	
121 Sb	115	3	0.0039	1.007050E-02	728.93	ppb	123.79	
137 Ba	159	3	0.0125	1.058116E-03	124.45	ppb	21.18	
205 Tl	209	3	0.0347	2.621651E-02	2260.34	ppb	58.12	
208 Pb	159	3	0.0139	2.987338E-02	3515.99	ppb	22.06	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1696277	1.32	---	#VALUE!	80 - 120	
45 Sc	1	867256	9.80	---	#VALUE!	80 - 120	
45 Sc	2	23930	0.96	---	#VALUE!	80 - 120	
45 Sc	3	2080083	1.79	---	#VALUE!	80 - 120	
72 Ge	1	258010	9.17	---	#VALUE!	80 - 120	
72 Ge	2	25654	1.34	---	#VALUE!	80 - 120	
89 Y	3	3327320	0.96	---	#VALUE!	80 - 120	
115 In	3	3618165	0.69	---	#VALUE!	80 - 120	
159 Tb	3	5882349	1.64	---	#VALUE!	80 - 120	
209 Bi	3	4297139	1.49	---	#VALUE!	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : ---

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K09100.B\003BLNK.D\003BLNK.D#
Date Acquired: Nov 9 2007 11:36 am
Acq. Method: lcj6020.M
Operator:
Sample Name: rinse
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 08 2007 11:51 am
Sample Type: 6-Blank
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	-0.0042	6.300965E-04	21.11	ppb	19.53	
23 Na	45	2	-14.9800	1.358575E+01	6749.43	ppb	21.17	
24 Mg	45	3	6.5640	2.244026E+00	91723.66	ppb	1.60	
27 Al	45	3	0.3104	1.235366E+00	50495.32	ppb	14.11	
39 K	45	3	22.8900	3.187079E+01	1302695.00	ppb	6.98	
44 Ca	45	3	-18.9400	2.037326E-01	8326.93	ppb	3.51	
51 V	45	2	-0.0148	7.309873E-02	36.30	ppb	31.68	
52 Cr	45	2	1.0850	3.751298E+00	1864.94	ppb	1.54	
55 Mn	45	2	0.0569	1.347906E-01	67.04	ppb	8.33	
56 Fe	45	1	3.4380	4.608577E+00	63148.66	ppb	2.93	
59 Co	45	2	0.0101	1.495427E-01	74.45	ppb	27.24	
60 Ni	45	2	-1.9750	4.385733E-01	218.15	ppb	1.03	
63 Cu	72	2	-0.1396	7.796884E-01	418.16	ppb	2.96	
66 Zn	72	2	-0.3021	3.379118E-01	181.11	ppb	15.26	
75 As	72	2	-0.0016	3.714034E-03	2.00	ppb	240.60	
78 Se	72	1	-0.0018	6.033012E-04	2.44	ppb	312.50	
98 Mo	89	3	0.0076	3.011271E-03	195.56	ppb	76.40	
107 Ag	115	3	-0.0012	1.572488E-03	112.23	ppb	145.24	
111 Cd	115	3	-0.0006	2.015512E-04	14.44	ppb	407.77	
121 Sb	115	3	0.0067	1.051168E-02	751.16	ppb	20.82	
137 Ba	159	3	0.0072	8.854815E-04	101.11	ppb	16.04	
205 Tl	209	3	-0.0092	7.530333E-03	634.49	ppb	32.08	
208 Pb	159	3	0.0057	2.661490E-02	3039.24	ppb	31.35	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1676363	0.58	---	#VALUE!	80 - 120	
45 Sc	1	685156	0.90	---	#VALUE!	80 - 120	
45 Sc	2	24861	2.25	---	#VALUE!	80 - 120	
45 Sc	3	2043814	0.52	---	#VALUE!	80 - 120	
72 Ge	1	202326	0.40	---	#VALUE!	80 - 120	
72 Ge	2	26822	2.01	---	#VALUE!	80 - 120	
89 Y	3	3249344	0.55	---	#VALUE!	80 - 120	
115 In	3	3572425	1.16	---	#VALUE!	80 - 120	
159 Tb	3	5710416	1.08	---	#VALUE!	80 - 120	
209 Bi	3	4215376	0.81	---	#VALUE!	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : ---

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K09100.B\004CALB.D\004CALB.D#
Date Acquired: Nov 9 2007 11:42 am
Acq. Method: lcj6020.M
Operator:
Sample Name: calblank
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 09 2007 11:46 am
Sample Type: CalBlk
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	--------	2.111183E+01	21.11	ppb	--------	
23 Na	45	2	--------	6.915066E+03	6915.07	ppb	--------	
24 Mg	45	3	--------	8.921052E+04	89210.53	ppb	--------	
27 Al	45	3	--------	4.882928E+04	48829.28	ppb	--------	
39 K	45	3	--------	1.302352E+06	1302352.00	ppb	--------	
44 Ca	45	3	--------	8.404768E+03	8404.77	ppb	--------	
51 V	45	2	--------	3.481529E+01	34.82	ppb	--------	
52 Cr	45	2	--------	1.797901E+03	1797.90	ppb	--------	
55 Mn	45	2	--------	5.888978E+01	58.89	ppb	--------	
56 Fe	45	1	--------	6.059113E+04	60591.13	ppb	--------	
59 Co	45	2	--------	5.333411E+01	53.33	ppb	--------	
60 Ni	45	2	--------	2.251894E+02	225.19	ppb	--------	
63 Cu	72	2	--------	4.314927E+02	431.49	ppb	--------	
66 Zn	72	2	--------	1.888923E+02	188.89	ppb	--------	
75 As	72	2	--------	2.888907E+00	2.89	ppb	--------	
78 Se	72	1	--------	1.777789E+00	1.78	ppb	--------	
98 Mo	89	3	--------	1.966750E+02	196.68	ppb	--------	
107 Ag	115	3	--------	9.333713E+01	93.34	ppb	--------	
111 Cd	115	3	--------	7.778033E+00	7.78	ppb	--------	
121 Sb	115	3	--------	7.144951E+02	714.50	ppb	--------	
137 Ba	159	3	--------	9.778180E+01	97.78	ppb	--------	
205 Tl	209	3	--------	3.822403E+02	382.24	ppb	--------	
208 Pb	159	3	--------	2.849196E+03	2849.20	ppb	--------	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1707263	0.58	1707263	100.0	80 - 120	
45 Sc	1	690721	0.79	690721	100.0	80 - 120	
45 Sc	2	25151	0.10	25151	100.0	80 - 120	
45 Sc	3	2076861	1.05	2076861	100.0	80 - 120	
72 Ge	1	203011	0.68	203011	100.0	80 - 120	
72 Ge	2	27071	0.49	27071	100.0	80 - 120	
89 Y	3	3314551	1.40	3314551	100.0	80 - 120	
115 In	3	3654483	1.36	3654483	100.0	80 - 120	
159 Tb	3	5827278	1.01	5827278	100.0	80 - 120	
209 Bi	3	4282931	0.86	4282931	100.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : ---

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K09100.B\005CALS.D\005CALS.D#
Date Acquired: Nov 9 2007 11:48 am
Acq. Method: lcj6020.M
Operator:
Sample Name: S7596
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 09 2007 11:46 am
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	--------	5.144708E+02	514.47	ppb	--------	
23 Na	45	2	--------	8.789386E+03	8789.38	ppb	--------	
24 Mg	45	3	--------	2.065838E+05	206583.80	ppb	--------	
27 Al	45	3	--------	1.974485E+05	197448.50	ppb	--------	
39 K	45	3	--------	1.490120E+06	1490120.00	ppb	--------	
44 Ca	45	3	--------	1.397442E+04	13974.42	ppb	--------	
51 V	45	2	--------	1.270392E+02	127.04	ppb	--------	
52 Cr	45	2	--------	4.555679E+02	455.57	ppb	--------	
55 Mn	45	2	--------	1.092610E+02	109.26	ppb	--------	
56 Fe	45	1	--------	9.611227E+04	96112.26	ppb	--------	
59 Co	45	2	--------	3.074140E+02	307.41	ppb	--------	
60 Ni	45	2	--------	2.644498E+02	264.45	ppb	--------	
63 Cu	72	2	--------	9.837465E+02	983.75	ppb	--------	
66 Zn	72	2	--------	4.437152E+02	443.72	ppb	--------	
75 As	72	2	--------	1.800012E+01	18.00	ppb	--------	
78 Se	72	1	--------	2.866690E+01	28.67	ppb	--------	
98 Mo	89	3	--------	8.011596E+02	801.16	ppb	--------	
107 Ag	115	3	--------	1.501238E+03	1501.24	ppb	--------	
111 Cd	115	3	--------	3.177929E+02	317.79	ppb	--------	
121 Sb	115	3	--------	1.949088E+03	1949.09	ppb	--------	
137 Ba	159	3	--------	6.389272E+02	638.93	ppb	--------	
205 Tl	209	3	--------	2.119125E+03	2119.13	ppb	--------	
208 Pb	159	3	--------	8.609309E+03	8609.31	ppb	--------	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1775684	1.80	1707263	104.0	80 - 120	
45 Sc	1	702271	5.93	690721	101.7	80 - 120	
45 Sc	2	25029	3.32	25151	99.5	80 - 120	
45 Sc	3	2177018	1.19	2076861	104.8	80 - 120	
72 Ge	1	207070	5.80	203011	102.0	80 - 120	
72 Ge	2	27159	2.29	27071	100.3	80 - 120	
89 Y	3	3425954	1.16	3314551	103.4	80 - 120	
115 In	3	3764692	0.92	3654483	103.0	80 - 120	
159 Tb	3	6076601	0.34	5827278	104.3	80 - 120	
209 Bi	3	4394841	1.00	4282931	102.6	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K09100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K09100.B\006CALS.D\006CALS.D#
Date Acquired: Nov 9 2007 11:54 am
Acq. Method: lcj6020.M
Operator:
Sample Name: S7597
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 09 2007 11:52 am
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	0.5137	7.190452E-02	2364.70	ppb	12.31	
23 Na	45	2	36.1100	2.759777E+01	13997.72	ppb	3.04	
24 Mg	45	3	57.5700	1.709849E+01	665928.19	ppb	10.66	
27 Al	45	3	50.3200	1.807889E+01	702966.50	ppb	13.17	
39 K	45	3	68.9100	5.114369E+01	1992255.00	ppb	23.39	
44 Ca	45	3	48.5200	7.779560E-01	30293.17	ppb	13.05	
51 V	45	2	0.5232	1.036881E+00	525.94	ppb	2.86	
52 Cr	45	2	0.0570	2.055265E+00	1042.27	ppb	6.42	
55 Mn	45	2	0.4868	6.090768E-01	308.90	ppb	11.55	
56 Fe	45	1	85.6400	2.553302E+01	354119.91	ppb	3.47	
59 Co	45	2	0.5265	2.783128E+00	1411.56	ppb	2.52	
60 Ni	45	2	0.8694	1.150431E+00	583.35	ppb	12.35	
63 Cu	72	2	0.2289	3.119315E+00	1691.22	ppb	7.83	
66 Zn	72	2	0.1679	1.134785E+00	615.57	ppb	2.04	
75 As	72	2	0.6179	1.770890E-01	96.00	ppb	8.77	
78 Se	72	1	0.4332	2.869165E-02	115.78	ppb	2.62	
98 Mo	89	3	0.6353	5.840067E-02	3581.67	ppb	12.18	
107 Ag	115	3	0.5104	9.647206E-02	6531.64	ppb	8.73	
111 Cd	115	3	0.5311	2.196953E-02	1486.79	ppb	10.75	
121 Sb	115	3	0.5364	9.622609E-02	6530.85	ppb	5.28	
137 Ba	159	3	0.4542	2.090826E-02	2241.37	ppb	12.46	
205 Tl	209	3	0.2733	1.118562E-01	9012.10	ppb	9.30	
208 Pb	159	3	0.4852	2.495563E-01	26779.15	ppb	9.10	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1653197	7.25	1707263	96.8	80 - 120	
45 Sc	1	693865	3.08	690721	100.5	80 - 120	
45 Sc	2	25362	0.76	25151	100.8	80 - 120	
45 Sc	3	1959051	9.63	2076861	94.3	80 - 120	
72 Ge	1	201714	1.72	203011	99.4	80 - 120	
72 Ge	2	27124	1.43	27071	100.2	80 - 120	
89 Y	3	3089909	10.03	3314551	93.2	80 - 120	
115 In	3	3402555	9.83	3654483	93.1	80 - 120	
159 Tb	3	5394769	9.97	5827278	92.6	80 - 120	
209 Bi	3	4047939	8.13	4282931	94.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K09100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K09100.B\007CALS.D\007CALS.D#
Date Acquired: Nov 9 2007 12:00 pm
Acq. Method: lcj6020.M
Operator:
Sample Name: S7598
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 09 2007 11:58 am
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	0.9466	1.354408E-01	4767.52	ppb	3.17	
23 Na	45	2	96.2300	4.079815E+01	20325.81	ppb	2.54	
24 Mg	45	3	86.3000	2.782273E+01	1193643.00	ppb	0.70	
27 Al	45	3	90.3500	3.171179E+01	1360493.00	ppb	0.69	
39 K	45	3	81.2400	6.316698E+01	2709980.00	ppb	1.14	
44 Ca	45	3	91.0500	1.251785E+00	53703.82	ppb	1.70	
51 V	45	2	1.0100	2.020646E+00	1006.34	ppb	4.72	
52 Cr	45	2	-0.0047	3.592504E+00	1789.38	ppb	683.08	
55 Mn	45	2	1.0190	1.120570E+00	558.16	ppb	6.78	
56 Fe	45	1	108.8000	4.966551E+01	681017.50	ppb	0.14	
59 Co	45	2	1.0120	5.513199E+00	2747.31	ppb	0.28	
60 Ni	45	2	1.1360	2.018818E+00	1006.34	ppb	8.05	
63 Cu	72	2	1.0380	5.840084E+00	3124.79	ppb	0.36	
66 Zn	72	2	1.4320	2.771210E+00	1481.94	ppb	4.90	
75 As	72	2	0.9010	3.125684E-01	167.34	ppb	5.69	
78 Se	72	1	1.0730	6.141005E-02	246.45	ppb	2.66	
98 Mo	89	3	0.9303	1.052583E-01	7167.52	ppb	2.24	
107 Ag	115	3	0.9237	1.770060E-01	13189.60	ppb	0.90	
111 Cd	115	3	0.8859	3.875657E-02	2888.16	ppb	1.61	
121 Sb	115	3	0.9074	1.662633E-01	12388.88	ppb	0.77	
137 Ba	159	3	0.8891	3.666643E-02	4348.58	ppb	2.97	
205 Tl	209	3	0.4682	2.049415E-01	17784.02	ppb	1.83	
208 Pb	159	3	0.9155	4.371310E-01	51846.80	ppb	1.38	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1760216	0.69	1707263	103.1	80 - 120	
45 Sc	1	685603	0.29	690721	99.3	80 - 120	
45 Sc	2	24916	1.96	25151	99.1	80 - 120	
45 Sc	3	2145138	0.55	2076861	103.3	80 - 120	
72 Ge	1	200651	0.41	203011	98.8	80 - 120	
72 Ge	2	26752	1.90	27071	98.8	80 - 120	
89 Y	3	3405129	0.88	3314551	102.7	80 - 120	
115 In	3	3725764	0.70	3654483	102.0	80 - 120	
159 Tb	3	5930527	0.59	5827278	101.8	80 - 120	
209 Bi	3	4339206	0.79	4282931	101.3	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K09100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K09100.B\008CALS.D\008CALS.D#
Date Acquired: Nov 9 2007 12:06 pm
Acq. Method: lcj6020.M
Operator:
Sample Name: S7599
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 09 2007 12:04 pm
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	9.9060	1.351763E+00	48132.68	ppb	2.21	
23 Na	45	2	982.1000	2.815685E+02	143868.50	ppb	2.26	
24 Mg	45	3	919.5000	2.459697E+02	10749440.00	ppb	4.28	
27 Al	45	3	915.0000	2.867441E+02	12528950.00	ppb	4.82	
39 K	45	3	914.5000	3.361494E+02	14689370.00	ppb	4.92	
44 Ca	45	3	889.5000	9.726915E+00	425042.50	ppb	4.67	
51 V	45	2	10.0200	1.958828E+01	10006.61	ppb	3.21	
52 Cr	45	2	-32.7100	2.972945E+01	15189.33	ppb	3.03	
55 Mn	45	2	9.8690	9.983158E+00	5099.03	ppb	3.99	
56 Fe	45	1	963.8000	4.334861E+02	6217741.00	ppb	0.93	
59 Co	45	2	10.3400	5.587858E+01	28545.91	ppb	3.08	
60 Ni	45	2	10.5900	1.667429E+01	8517.23	ppb	3.73	
63 Cu	72	2	9.2170	4.692372E+01	25416.15	ppb	2.66	
66 Zn	72	2	3.4380	8.157945E+00	4419.94	ppb	1.30	
75 As	72	2	9.9570	3.133880E+00	1697.22	ppb	3.53	
78 Se	72	1	10.0700	6.060937E-01	2512.67	ppb	2.08	
98 Mo	89	3	9.8610	1.027269E+00	70577.78	ppb	6.03	
107 Ag	115	3	9.7700	1.747315E+00	130065.80	ppb	4.08	
111 Cd	115	3	9.6790	3.841505E-01	28592.64	ppb	4.64	
121 Sb	115	3	9.4250	1.515827E+00	112826.30	ppb	4.34	
137 Ba	159	3	9.1370	3.366406E-01	40125.70	ppb	4.69	
205 Tl	209	3	4.8460	1.974837E+00	169733.50	ppb	3.05	
208 Pb	159	3	9.1800	3.884934E+00	463068.19	ppb	4.34	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1781320	3.64	1707263	104.3	80 - 120	
45 Sc	1	717199	0.50	690721	103.8	80 - 120	
45 Sc	2	25559	3.13	25151	101.6	80 - 120	
45 Sc	3	2188299	5.15	2076861	105.4	80 - 120	
72 Ge	1	207294	0.77	203011	102.1	80 - 120	
72 Ge	2	27095	2.77	27071	100.1	80 - 120	
89 Y	3	3442666	5.40	3314551	103.9	80 - 120	
115 In	3	3726567	4.63	3654483	102.0	80 - 120	
159 Tb	3	5968426	5.04	5827278	102.4	80 - 120	
209 Bi	3	4300933	4.03	4282931	100.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K09100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K09100.B\009CALS.D\009CALS.D#
Date Acquired: Nov 9 2007 12:12 pm
Acq. Method: lcj6020.M
Operator:
Sample Name: S7594
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 09 2007 12:10 pm
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	99.6200	1.346210E+01	463096.81	ppb	0.79	
23 Na	45	2	9009.0000	2.427048E+03	1252925.00	ppb	2.43	
24 Mg	45	3	9817.0000	2.398407E+03	102921500.00	ppb	1.36	
27 Al	45	3	9857.0000	2.819178E+03	120984900.00	ppb	0.51	
39 K	45	3	9886.0000	3.048171E+03	130802700.00	ppb	1.59	
44 Ca	45	3	10110.0000	9.664322E+01	4147113.00	ppb	1.81	
51 V	45	2	97.4900	1.903658E+02	98267.50	ppb	2.71	
52 Cr	45	2	106.5000	2.777257E+02	143361.09	ppb	2.83	
55 Mn	45	2	96.1800	9.502740E+01	49047.70	ppb	3.42	
56 Fe	45	1	10590.0000	4.551720E+03	60889140.00	ppb	6.00	
59 Co	45	2	94.4100	5.264400E+02	271736.31	ppb	2.99	
60 Ni	45	2	95.2400	1.548751E+02	79944.86	ppb	2.88	
63 Cu	72	2	92.4200	4.275475E+02	232650.70	ppb	1.60	
66 Zn	72	2	64.8200	5.216912E+01	28390.19	ppb	0.91	
75 As	72	2	99.0400	3.099199E+01	16864.60	ppb	1.45	
78 Se	72	1	104.5000	6.331148E+00	24818.29	ppb	3.93	
98 Mo	89	3	101.4000	1.039034E+01	693600.38	ppb	0.32	
107 Ag	115	3	100.1000	1.748363E+01	1244619.00	ppb	1.36	
111 Cd	115	3	99.4100	3.819453E+00	271906.31	ppb	0.31	
121 Sb	115	3	105.7000	1.593762E+01	1134595.00	ppb	0.59	
137 Ba	159	3	99.3100	3.339805E+00	391359.91	ppb	0.42	
205 Tl	209	3	53.1000	2.093997E+01	1717006.00	ppb	1.02	
208 Pb	159	3	100.5000	3.886779E+01	4554462.00	ppb	0.72	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1720029	0.37	1707263	100.7	80 - 120	
45 Sc	1	670311	5.44	690721	97.0	80 - 120	
45 Sc	2	25823	2.71	25151	102.7	80 - 120	
45 Sc	3	2145817	1.01	2076861	103.3	80 - 120	
72 Ge	1	196171	3.45	203011	96.6	80 - 120	
72 Ge	2	27212	1.37	27071	100.5	80 - 120	
89 Y	3	3337757	0.56	3314551	100.7	80 - 120	
115 In	3	3559525	0.44	3654483	97.4	80 - 120	
159 Tb	3	5859063	0.61	5827278	100.5	80 - 120	
209 Bi	3	4100049	0.86	4282931	95.7	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K09100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

MET16 Sample QC Report

Data File: C:\ICPCHEM\1\DATA\07K09100.B\010CALS.D\010CALS.D#
Date Acquired: Nov 9 2007 12:18 pm
Acq. Method: lcj6020.M
Operator:
Sample Name: S7595
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\lcj6020.M
Calibration File: C:\ICPCHEM\1\CALIB\lcj6020.C
Last Cal. Update: Nov 09 2007 12:16 pm
Sample Type: CalStd
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Raw Conc	CPS Mean	Raw CPS Mean	Units	RSD(%)	Flag
9 Be	6	3	190.0000	2.558386E+01	866705.31	ppb	1.72	
23 Na	45	2	19790.0000	4.794919E+03	2386489.00	ppb	1.91	
24 Mg	45	3	20350.0000	4.879450E+03	206699300.00	ppb	1.59	
27 Al	45	3	20480.0000	5.772834E+03	244566500.00	ppb	0.90	
39 K	45	3	20310.0000	6.159587E+03	260966700.00	ppb	0.34	
44 Ca	45	3	20170.0000	1.947278E+02	8249897.00	ppb	0.54	
51 V	45	2	201.6000	3.837906E+02	190989.91	ppb	2.66	
52 Cr	45	2	203.8000	5.620456E+02	279718.00	ppb	2.15	
55 Mn	45	2	200.8000	1.907496E+02	94925.10	ppb	2.70	
56 Fe	45	1	19580.0000	8.904073E+03	118952600.00	ppb	4.69	
59 Co	45	2	200.5000	1.056055E+03	525566.81	ppb	2.30	
60 Ni	45	2	198.6000	3.072227E+02	152899.59	ppb	2.14	
63 Cu	72	2	196.6000	8.405822E+02	441679.81	ppb	2.15	
66 Zn	72	2	198.4000	1.037084E+02	54492.24	ppb	2.54	
75 As	72	2	201.2000	6.235680E+01	32765.87	ppb	2.04	
78 Se	72	1	198.5000	1.255969E+01	47696.20	ppb	4.72	
98 Mo	89	3	213.4000	2.216457E+01	1471078.00	ppb	1.40	
107 Ag	115	3	195.1000	3.410971E+01	2379319.00	ppb	1.12	
111 Cd	115	3	201.9000	7.713987E+00	538129.81	ppb	0.41	
121 Sb	115	3	201.6000	3.210723E+01	2239704.00	ppb	0.83	
137 Ba	159	3	203.9000	6.809894E+00	786202.88	ppb	1.35	
205 Tl	209	3	100.6000	4.210268E+01	3382581.00	ppb	0.55	
208 Pb	159	3	202.0000	7.849028E+01	9061868.00	ppb	1.34	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1694164	1.89	1707263	99.2	80 - 120	
45 Sc	1	668940	4.66	690721	96.8	80 - 120	
45 Sc	2	24892	2.38	25151	99.0	80 - 120	
45 Sc	3	2118432	1.72	2076861	102.0	80 - 120	
72 Ge	1	190170	4.88	203011	93.7	80 - 120	
72 Ge	2	26278	1.70	27071	97.1	80 - 120	
89 Y	3	3319188	2.13	3314551	100.1	80 - 120	
115 In	3	3488166	1.72	3654483	95.4	80 - 120	
159 Tb	3	5773309	1.55	5827278	99.1	80 - 120	
209 Bi	3	4017216	1.05	4282931	93.8	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\07K09100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET16
Seqnum : 897451405012 File : k0910012 IDF : 1.0
Cal : 897451405001 Caldate : 09-NOV-2007 Time : 09-NOV-2007 12:32
Standards: S7600, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	A	0.3316	0.2869	10000	9984	ug/L	0	10	
Antimony	A	0.1815	0.1625	100.0	101.4	ug/L	1	10	
Barium	A	0.0387	0.0335	100.0	98.68	ug/L	-1	10	
Beryllium	A	0.1370	0.1379	100.0	106.7	ug/L	7	10	
Cadmium	A	0.0400	0.0385	100.0	99.98	ug/L	0	10	
Calcium	A	0.0149	0.0099	10000	10130	ug/L	1	10	
Lead	A	0.4690	0.3898	100.0	99.50	ug/L	-1	10	
Magnesium	A	0.3041	0.2459	10000	10110	ug/L	1	10	
Molybdenum	A	0.1094	0.1042	100.0	95.22	ug/L	-5	10	
Potassium	A	1.0044	0.3125	10000	10130	ug/L	1	10	
Silver	A	0.1816	0.1766	100.0	103.0	ug/L	3	10	
Thallium	A	0.4290	0.4097	50.00	48.70	ug/L	-3	10	
Arsenic	E	0.3222	0.3087	100.0	99.13	ug/L	-1	10	
Chromium	E	4.2272	2.7947	100.0	99.18	ug/L	-1	10	
Cobalt	E	5.5596	5.3193	100.0	100.8	ug/L	1	10	
Copper	E	7.2277	4.1946	100.0	99.36	ug/L	-1	10	
Manganese	E	1.2371	0.9474	100.0	99.35	ug/L	-1	10	
Nickel	E	2.3929	1.5596	100.0	101.2	ug/L	1	10	
Sodium	E	0.5804	0.2468	10000	10240	ug/L	2	10	
Vanadium	E	2.0696	1.9004	100.0	99.17	ug/L	-1	10	
Zinc	E	2.5111	0.5059	100.0	97.06	ug/L	-3	10	
Iron	H	0.5045	0.4410	10000	9858	ug/L	-1	10	
Selenium	H	0.0625	0.0604	100.0	96.01	ug/L	-4	10	

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1742404	2.06
Scandium	A	2076861	2177147	4.83
Scandium	E	25151	25612	1.83
Scandium	H	690721	715753	3.62
Germanium	H	203011	207917	2.42
Germanium	E	27071	27614	2.00
Indium	A	3654483	3626692	-0.76
Bismuth	A	4282931	4159802	-2.87
Yttrium	A	3314551	3391058	2.31
Terbium	A	5827278	5929378	1.75

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16
Seqnum : 897451405015 File : k0910015 IDF : 1.0
Cal : 897451405001 Caldate : 09-NOV-2007 Time : 09-NOV-2007 12:50

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	1.698	ug/L	
Antimony	A	[0.002943]	0.1000	0.0005688	ug/L	!ib
Barium	A	ND	0.1000	0.006293	ug/L	
Beryllium	A	[0.01207]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	ND	0.1000	0.002608	ug/L	
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	ND	0.1000	0.006965	ug/L	
Magnesium	A	ND	10.00	1.686	ug/L	
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	ND	10.00	2.504	ug/L	
Silver	A	ND	0.1000	0.001856	ug/L	
Thallium	A	[0.01199]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.02127]	0.1000	0.007290	ug/L	!ib
Chromium	E	ND	0.1000	0.002192	ug/L	
Cobalt	E	[0.001588]	0.1000	0.001165	ug/L	!ib
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	[0.009586]	0.1000	0.003304	ug/L	!ib
Zinc	E	[0.02167]	0.1000	0.01941	ug/L	!ib
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.02792]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1759529	3.06
Scandium	A	2076861	2150252	3.53
Scandium	E	25151	25984	3.31
Scandium	H	690721	734975	6.41
Germanium	H	203011	212466	4.66
Germanium	E	27071	27792	2.66
Indium	A	3654483	3688365	0.93
Bismuth	A	4282931	4249102	-0.79
Yttrium	A	3314551	3385599	2.14
Terbium	A	5827278	5923979	1.66

!=warning ib=instrument blank

897451405015

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16
Seqnum : 897451405016 File : k0910016 IDF : 1.0
Cal : 897451405001 Caldate : 09-NOV-2007 Time : 09-NOV-2007 12:59
Standards: S7602, S7605

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.8292	0.1000	ug/L	
Barium	A	8.331	0.1000	ug/L	
Beryllium	A	[0.03644]	0.1000	ug/L	
Cadmium	A	1.200	0.1000	ug/L	
Lead	A	0.5427	0.1000	ug/L	
Silver	A	0.2212	0.1000	ug/L	
Thallium	A	1.252	0.05000	ug/L	
Arsenic	E	0.2347	0.1000	ug/L	
Chromium	E	0.5347	0.1000	ug/L	
Cobalt	E	0.2918	0.1000	ug/L	
Copper	E	2.580	0.1000	ug/L	
Manganese	E	0.7028	0.1000	ug/L	
Nickel	E	1.310	0.1000	ug/L	
Vanadium	E	[0.08023]	0.1000	ug/L	
Zinc	E	16.77	0.1000	ug/L	
Selenium	H	[0.07506]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	103600	ug/L	104
Calcium	A	300000	315400	ug/L	105
Magnesium	A	100000	101800	ug/L	102
Molybdenum	A	2000	2045	ug/L	102
Potassium	A	100000	104200	ug/L	104
Sodium	E	250000	256300	ug/L	103
Iron	H	250000	246300	ug/L	99

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1480729	-13.27
Scandium	A	2076861	1923775	-7.37
Scandium	E	25151	23944	-4.80
Scandium	H	690721	639427	-7.43
Germanium	H	203011	176602	-13.01
Germanium	E	27071	24787	-8.44
Indium	A	3654483	3091440	-15.41
Bismuth	A	4282931	3405715	-20.48
Yttrium	A	3314551	3052410	-7.91
Terbium	A	5827278	5295056	-9.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16
Seqnum : 897451405017 File : k0910017 IDF : 1.0
Cal : 897451405001 Caldate : 09-NOV-2007 Time : 09-NOV-2007 13:05
Standards: S7603, S7605

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	95930	ug/L	-4		
Cadmium	A	100.0	100.2	ug/L	0	20	
Calcium	A	300000	294300	ug/L	-2		
Magnesium	A	100000	94830	ug/L	-5		
Molybdenum	A	2000	1918	ug/L	-4		
Potassium	A	100000	96810	ug/L	-3		
Silver	A	50.00	47.92	ug/L	-4	20	
Arsenic	E	100.0	107.1	ug/L	7	20	
Chromium	E	200.0	198.6	ug/L	-1	20	
Cobalt	E	200.0	192.8	ug/L	-4	20	
Copper	E	200.0	186.1	ug/L	-7	20	
Manganese	E	200.0	198.2	ug/L	-1	20	
Nickel	E	200.0	188.3	ug/L	-6	20	
Sodium	E	250000	239300	ug/L	-4		
Vanadium	E	200.0	205.0	ug/L	3	20	
Zinc	E	100.0	92.83	ug/L	-7	20	
Iron	H	250000	267800	ug/L	7		
Selenium	H	100.0	109.0	ug/L	9	20	

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	690721	582884	-15.61
Scandium	A	2076861	1918028	-7.65
Scandium	E	25151	23520	-6.49
Germanium	H	203011	165922	-18.27
Germanium	E	27071	24424	-9.78
Indium	A	3654483	3086662	-15.54
Yttrium	A	3314551	3041494	-8.24

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897451405029 File : k0910029 Time : 09-NOV-2007 14:16
Cal : 897451405001 Caldate : 09-NOV-2007
Standards: S7601, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3316	0.2834	10000	9862	ug/L	-1	10	
Antimony	A	0.1815	0.1617	100.0	100.9	ug/L	1	10	
Barium	A	0.0387	0.0335	100.0	98.90	ug/L	-1	10	
Beryllium	A	0.1370	0.1363	100.0	105.4	ug/L	5	10	
Cadmium	A	0.0400	0.0382	100.0	99.16	ug/L	-1	10	
Calcium	A	0.0149	0.0098	10000	10100	ug/L	1	10	
Lead	A	0.4690	0.3868	100.0	98.72	ug/L	-1	10	
Magnesium	A	0.3041	0.2429	10000	9987	ug/L	0	10	
Molybdenum	A	0.1094	0.1024	100.0	93.54	ug/L	-6	10	
Potassium	A	1.0044	0.3106	10000	10070	ug/L	1	10	
Silver	A	0.1816	0.1760	100.0	102.7	ug/L	3	10	
Thallium	A	0.4290	0.4088	50.00	48.60	ug/L	-3	10	
Arsenic	E	0.3222	0.3129	100.0	100.5	ug/L	1	10	
Chromium	E	4.2272	2.7938	100.0	99.15	ug/L	-1	10	
Cobalt	E	5.5596	5.3398	100.0	101.2	ug/L	1	10	
Copper	E	7.2277	4.1880	100.0	99.21	ug/L	-1	10	
Manganese	E	1.2371	0.9485	100.0	99.47	ug/L	-1	10	
Nickel	E	2.3929	1.5576	100.0	101.1	ug/L	1	10	
Sodium	E	0.5804	0.2463	10000	10220	ug/L	2	10	
Vanadium	E	2.0696	1.9197	100.0	100.2	ug/L	0	10	
Zinc	E	2.5111	0.5108	100.0	98.00	ug/L	-2	10	
Iron	H	0.5045	0.4346	10000	9715	ug/L	-3	10	
Selenium	H	0.0625	0.0587	100.0	93.35	ug/L	-7	10	

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1699026	-0.48
Scandium	A	2076861	2150573	3.55
Scandium	E	25151	25385	0.93
Scandium	H	690721	716852	3.78
Germanium	H	203011	208342	2.63
Germanium	E	27071	27363	1.08
Indium	A	3654483	3576296	-2.14
Bismuth	A	4282931	4065592	-5.07
Yttrium	A	3314551	3371602	1.72
Terbium	A	5827278	5841536	0.24

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16
Seqnum : 897451405031 File : k0910031 IDF : 1.0
Cal : 897451405001 Caldate : 09-NOV-2007 Time : 09-NOV-2007 14:29

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	1.698	ug/L	
Antimony	A	[0.01650]	0.1000	0.0005688	ug/L	!ib
Barium	A	ND	0.1000	0.006293	ug/L	
Beryllium	A	[0.01650]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.008242]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.01385]	0.1000	0.006965	ug/L	!ib
Magnesium	A	ND	10.00	1.686	ug/L	
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	[9.518]	10.00	2.504	ug/L	!ib
Silver	A	[0.006831]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.01687]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	ND	0.1000	0.007290	ug/L	
Chromium	E	ND	0.1000	0.002192	ug/L	
Cobalt	E	ND	0.1000	0.001165	ug/L	
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	ND	10.00	2.311	ug/L	
Vanadium	E	ND	0.1000	0.003304	ug/L	
Zinc	E	[0.06062]	0.1000	0.01941	ug/L	!ib
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.008400]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1652568	-3.20
Scandium	A	2076861	2033124	-2.11
Scandium	E	25151	25401	0.99
Scandium	H	690721	713250	3.26
Germanium	H	203011	207300	2.11
Germanium	E	27071	27319	0.92
Indium	A	3654483	3528677	-3.44
Bismuth	A	4282931	4072418	-4.92
Yttrium	A	3314551	3252668	-1.87
Terbium	A	5827278	5616076	-3.62

!=warning ib=instrument blank

897451405031

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16
Seqnum : 897451405034 File : k0910034 IDF : 1.0
Cal : 897451405001 Caldate : 09-NOV-2007 Time : 09-NOV-2007 14:47
Standards: S7602, S7605

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.8139	0.1000	ug/L	
Barium	A	8.357	0.1000	ug/L	
Beryllium	A	[0.03680]	0.1000	ug/L	
Cadmium	A	1.299	0.1000	ug/L	
Lead	A	0.5260	0.1000	ug/L	
Silver	A	0.1960	0.1000	ug/L	
Thallium	A	1.220	0.05000	ug/L	
Arsenic	E	0.2447	0.1000	ug/L	
Chromium	E	0.4634	0.1000	ug/L	
Cobalt	E	0.2914	0.1000	ug/L	
Copper	E	2.467	0.1000	ug/L	
Manganese	E	0.7906	0.1000	ug/L	
Nickel	E	1.253	0.1000	ug/L	
Vanadium	E	[0.09037]	0.1000	ug/L	
Zinc	E	16.04	0.1000	ug/L	
Selenium	H	[0.05624]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	101300	ug/L	101
Calcium	A	300000	311400	ug/L	104
Magnesium	A	100000	99630	ug/L	100
Molybdenum	A	2000	2015	ug/L	101
Potassium	A	100000	102600	ug/L	103
Sodium	E	250000	248500	ug/L	99
Iron	H	250000	240600	ug/L	96

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1458665	-14.56
Scandium	A	2076861	1941303	-6.53
Scandium	E	25151	24529	-2.47
Scandium	H	690721	652363	-5.55
Germanium	H	203011	181514	-10.59
Germanium	E	27071	25455	-5.97
Indium	A	3654483	3110128	-14.90
Bismuth	A	4282931	3385500	-20.95
Yttrium	A	3314551	3089039	-6.80
Terbium	A	5827278	5273936	-9.50

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897451405035 File : k0910035 Time : 09-NOV-2007 14:53
Cal : 897451405001 Caldate : 09-NOV-2007
Standards: S7603, S7605

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	96780	ug/L	-3		
Cadmium	A	100.0	100.6	ug/L	1	20	
Calcium	A	300000	296700	ug/L	-1		
Magnesium	A	100000	94450	ug/L	-6		
Molybdenum	A	2000	1923	ug/L	-4		
Potassium	A	100000	98610	ug/L	-1		
Silver	A	50.00	48.09	ug/L	-4	20	
Arsenic	E	100.0	105.2	ug/L	5	20	
Chromium	E	200.0	193.2	ug/L	-3	20	
Cobalt	E	200.0	187.6	ug/L	-6	20	
Copper	E	200.0	180.4	ug/L	-10	20	
Manganese	E	200.0	195.0	ug/L	-3	20	
Nickel	E	200.0	182.5	ug/L	-9	20	
Sodium	E	250000	234500	ug/L	-6		
Vanadium	E	200.0	201.0	ug/L	1	20	
Zinc	E	100.0	89.79	ug/L	-10	20	
Iron	H	250000	226500	ug/L	-9		
Selenium	H	100.0	95.68	ug/L	-4	20	

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	690721	648733	-6.08
Scandium	A	2076861	1876365	-9.65
Scandium	E	25151	23746	-5.59
Germanium	H	203011	179683	-11.49
Germanium	E	27071	24795	-8.41
Indium	A	3654483	3009088	-17.66
Yttrium	A	3314551	2980152	-10.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16
Seqnum : 897451405054 File : k0910054 IDF : 1.0
Cal : 897451405001 Caldate : 09-NOV-2007 Time : 09-NOV-2007 17:13
Standards: S7601, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3316	0.2834	10000	9864	ug/L	-1	10	
Antimony	A	0.1815	0.1601	100.0	99.84	ug/L	0	10	
Barium	A	0.0387	0.0340	100.0	100.2	ug/L	0	10	
Beryllium	A	0.1370	0.1329	100.0	102.8	ug/L	3	10	
Cadmium	A	0.0400	0.0378	100.0	98.28	ug/L	-2	10	
Calcium	A	0.0149	0.0098	10000	10110	ug/L	1	10	
Lead	A	0.4690	0.3859	100.0	98.49	ug/L	-2	10	
Magnesium	A	0.3041	0.2418	10000	9941	ug/L	-1	10	
Molybdenum	A	0.1094	0.1019	100.0	93.07	ug/L	-7	10	
Potassium	A	1.0044	0.3096	10000	10030	ug/L	0	10	
Silver	A	0.1816	0.1725	100.0	100.6	ug/L	1	10	
Thallium	A	0.4290	0.4009	50.00	47.66	ug/L	-5	10	
Arsenic	E	0.3222	0.3089	100.0	99.19	ug/L	-1	10	
Chromium	E	4.2272	2.6782	100.0	94.99	ug/L	-5	10	
Cobalt	E	5.5596	5.1220	100.0	97.04	ug/L	-3	10	
Copper	E	7.2277	4.0528	100.0	96.00	ug/L	-4	10	
Manganese	E	1.2371	0.9238	100.0	96.87	ug/L	-3	10	
Nickel	E	2.3929	1.4978	100.0	97.21	ug/L	-3	10	
Sodium	E	0.5804	0.2413	10000	10010	ug/L	0	10	
Vanadium	E	2.0696	1.8428	100.0	96.17	ug/L	-4	10	
Zinc	E	2.5111	0.4982	100.0	95.56	ug/L	-4	10	
Iron	H	0.5045	0.4278	10000	9562	ug/L	-4	10	
Selenium	H	0.0625	0.0592	100.0	94.16	ug/L	-6	10	

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1704029	-0.19
Scandium	A	2076861	2099616	1.10
Scandium	E	25151	25041	-0.44
Scandium	H	690721	676177	-2.11
Germanium	H	203011	195220	-3.84
Germanium	E	27071	26699	-1.38
Indium	A	3654483	3528912	-3.44
Bismuth	A	4282931	4038214	-5.71
Yttrium	A	3314551	3320108	0.17
Terbium	A	5827278	5701226	-2.16

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897451405057 File : k0910057 Time : 09-NOV-2007 17:32
Cal : 897451405001 Caldate : 09-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	[2.237]	10.00	1.698	ug/L	!ib
Antimony	A	[0.01767]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.02416]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.02262]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.02904]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.02118]	0.1000	0.006965	ug/L	!ib
Magnesium	A	ND	10.00	1.686	ug/L	
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	[9.001]	10.00	2.504	ug/L	!ib
Silver	A	[0.01771]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.01004]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.007735]	0.1000	0.007290	ug/L	!ib
Chromium	E	ND	0.1000	0.002192	ug/L	
Cobalt	E	ND	0.1000	0.001165	ug/L	
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	26.11	10.00	2.311	ug/L	ib ***
Vanadium	E	[0.02086]	0.1000	0.003304	ug/L	!ib
Zinc	E	[0.04728]	0.1000	0.01941	ug/L	!ib
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.004461]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1743017	2.09
Scandium	A	2076861	2123269	2.23
Scandium	E	25151	24963	-0.75
Scandium	H	690721	613914	-11.12
Germanium	H	203011	183490	-9.62
Germanium	E	27071	27382	1.15
Indium	A	3654483	3672861	0.50
Bismuth	A	4282931	4202086	-1.89
Yttrium	A	3314551	3352614	1.15
Terbium	A	5827278	5827191	0.00

!=warning ib=instrument blank

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET16
Seqnum : 897451405070 File : k0910070 IDF : 1.0
Cal : 897451405001 Caldate : 09-NOV-2007 Time : 09-NOV-2007 18:50
Standards: S7601, S7605

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	0.3316	0.2802	10000	9753	ug/L	-2	10	
Antimony	A	0.1815	0.1616	100.0	100.8	ug/L	1	10	
Barium	A	0.0387	0.0341	100.0	100.4	ug/L	0	10	
Beryllium	A	0.1370	0.1327	100.0	102.6	ug/L	3	10	
Cadmium	A	0.0400	0.0380	100.0	98.69	ug/L	-1	10	
Calcium	A	0.0149	0.0099	10000	10130	ug/L	1	10	
Lead	A	0.4690	0.3860	100.0	98.52	ug/L	-1	10	
Magnesium	A	0.3041	0.2378	10000	9775	ug/L	-2	10	
Molybdenum	A	0.1094	0.1020	100.0	93.22	ug/L	-7	10	
Potassium	A	1.0044	0.3117	10000	10100	ug/L	1	10	
Silver	A	0.1816	0.1745	100.0	101.8	ug/L	2	10	
Thallium	A	0.4290	0.4019	50.00	47.78	ug/L	-4	10	
Arsenic	E	0.3222	0.3072	100.0	98.63	ug/L	-1	10	
Chromium	E	4.2272	2.6730	100.0	94.80	ug/L	-5	10	
Cobalt	E	5.5596	5.0902	100.0	96.44	ug/L	-4	10	
Copper	E	7.2277	3.9902	100.0	94.51	ug/L	-5	10	
Manganese	E	1.2371	0.9335	100.0	97.89	ug/L	-2	10	
Nickel	E	2.3929	1.4834	100.0	96.27	ug/L	-4	10	
Sodium	E	0.5804	0.2381	10000	9880	ug/L	-1	10	
Vanadium	E	2.0696	1.8501	100.0	96.55	ug/L	-3	10	
Zinc	E	2.5111	0.4938	100.0	94.72	ug/L	-5	10	
Iron	H	0.5045	0.4293	10000	9596	ug/L	-4	10	
Selenium	H	0.0625	0.0583	100.0	92.67	ug/L	-7	10	

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1721669	0.84
Scandium	A	2076861	2130647	2.59
Scandium	E	25151	25123	-0.11
Scandium	H	690721	644995	-6.62
Germanium	H	203011	190025	-6.40
Germanium	E	27071	26932	-0.51
Indium	A	3654483	3558538	-2.63
Bismuth	A	4282931	4062553	-5.15
Yttrium	A	3314551	3355542	1.24
Terbium	A	5827278	5770629	-0.97

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET16 IDF : 1.0
Seqnum : 897451405073 File : k0910073 Time : 09-NOV-2007 19:07
Cal : 897451405001 Caldate : 09-NOV-2007

Analyte	Ch	Quant	IQL	3X IDL	Units	Flags
Aluminum	A	ND	10.00	1.698	ug/L	
Antimony	A	[0.01317]	0.1000	0.0005688	ug/L	!ib
Barium	A	[0.007463]	0.1000	0.006293	ug/L	!ib
Beryllium	A	[0.01503]	0.1000	0.0005263	ug/L	!ib
Cadmium	A	[0.009447]	0.1000	0.002608	ug/L	!ib
Calcium	A	ND	10.00	1.675	ug/L	
Lead	A	[0.01180]	0.1000	0.006965	ug/L	!ib
Magnesium	A	ND	10.00	1.686	ug/L	
Molybdenum	A	ND	0.1000	0.02655	ug/L	
Potassium	A	10.38	10.00	2.504	ug/L	ib ***
Silver	A	[0.01274]	0.1000	0.001856	ug/L	!ib
Thallium	A	[0.008341]	0.05000	0.0006370	ug/L	!ib
Arsenic	E	[0.009069]	0.1000	0.007290	ug/L	!ib
Chromium	E	ND	0.1000	0.002192	ug/L	
Cobalt	E	ND	0.1000	0.001165	ug/L	
Copper	E	ND	0.1000	0.005448	ug/L	
Manganese	E	ND	0.1000	0.009943	ug/L	
Nickel	E	ND	0.1000	0.01408	ug/L	
Sodium	E	53.62	10.00	2.311	ug/L	ib ***
Vanadium	E	[0.01370]	0.1000	0.003304	ug/L	!ib
Zinc	E	ND	0.1000	0.01941	ug/L	
Iron	H	ND	10.00	5.983	ug/L	
Selenium	H	[0.02300]	0.1000	0.004305	ug/L	!ib

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1756874	2.91
Scandium	A	2076861	2125785	2.36
Scandium	E	25151	25413	1.04
Scandium	H	690721	617264	-10.63
Germanium	H	203011	184819	-8.96
Germanium	E	27071	27133	0.23
Indium	A	3654483	3662776	0.23
Bismuth	A	4282931	4205147	-1.82
Yttrium	A	3314551	3377268	1.89
Terbium	A	5827278	5761392	-1.13

!=warning ib=instrument blank

897451405073

00522

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET16
Seqnum : 897451405075 File : k0910075 IDF : 1.0
Cal : 897451405001 Caldate : 09-NOV-2007 Time : 09-NOV-2007 19:19
Standards: S7602, S7605

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	0.7883	0.1000	ug/L	
Barium	A	8.570	0.1000	ug/L	
Beryllium	A	[0.03113]	0.1000	ug/L	
Cadmium	A	1.380	0.1000	ug/L	
Lead	A	0.5209	0.1000	ug/L	
Silver	A	0.2091	0.1000	ug/L	
Thallium	A	1.236	0.05000	ug/L	
Arsenic	E	0.2287	0.1000	ug/L	
Chromium	E	0.3811	0.1000	ug/L	
Cobalt	E	0.2864	0.1000	ug/L	
Copper	E	2.442	0.1000	ug/L	
Manganese	E	0.6487	0.1000	ug/L	
Nickel	E	1.179	0.1000	ug/L	
Vanadium	E	[0.07066]	0.1000	ug/L	
Zinc	E	15.48	0.1000	ug/L	
Selenium	H	[0.06476]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	101700	ug/L	102
Calcium	A	300000	312300	ug/L	104
Magnesium	A	100000	99690	ug/L	100
Molybdenum	A	2000	1998	ug/L	100
Potassium	A	100000	103900	ug/L	104
Sodium	E	250000	245600	ug/L	98
Iron	H	250000	238100	ug/L	95

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1707263	1520275	-10.95
Scandium	A	2076861	1978269	-4.75
Scandium	E	25151	24640	-2.03
Scandium	H	690721	604991	-12.41
Germanium	H	203011	169806	-16.36
Germanium	E	27071	25415	-6.12
Indium	A	3654483	3155133	-13.66
Bismuth	A	4282931	3381230	-21.05
Yttrium	A	3314551	3139427	-5.28
Terbium	A	5827278	5315199	-8.79

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET16
Seqnum : 897451405076
Cal : 897451405001
Standards: S7603, S7605

File : k0910076
Caldate : 09-NOV-2007

IDF : 1.0
Time : 09-NOV-2007 19:25

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	94980	ug/L	-5		
Cadmium	A	100.0	97.36	ug/L	-3	20	
Calcium	A	300000	291000	ug/L	-3		
Magnesium	A	100000	92930	ug/L	-7		
Molybdenum	A	2000	1866	ug/L	-7		
Potassium	A	100000	97080	ug/L	-3		
Silver	A	50.00	46.65	ug/L	-7	20	
Arsenic	E	100.0	104.2	ug/L	4	20	
Chromium	E	200.0	183.7	ug/L	-8	20	
Cobalt	E	200.0	177.4	ug/L	-11	20	
Copper	E	200.0	173.5	ug/L	-13	20	
Manganese	E	200.0	185.6	ug/L	-7	20	
Nickel	E	200.0	172.3	ug/L	-14	20	
Sodium	E	250000	225200	ug/L	-10		
Vanadium	E	200.0	190.0	ug/L	-5	20	
Zinc	E	100.0	88.83	ug/L	-11	20	
Iron	H	250000	233000	ug/L	-7		
Selenium	H	100.0	97.70	ug/L	-2	20	

ISTD (ICALBLK k0910004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	690721	597975	-13.43
Scandium	A	2076861	1952130	-6.01
Scandium	E	25151	25148	-0.01
Germanium	H	203011	168713	-16.89
Germanium	E	27071	25584	-5.49
Indium	A	3654483	3151587	-13.76
Yttrium	A	3314551	3109723	-6.18

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 897451405

Date : 11/09/07
Sequence : MET16 k09l0

Reference : k09l0004
Analyzed : 11/09/07 11:44

#	Type	Sample ID	LI A	SC A	SC E	SC H	GE H	GE E	IN A	BI A	Y A	TB A
		IB+ICALBLK STD	1707263	2076861	25151	690721	203011	27071	3654483	4282931	3314551	5827278
		LOWER LIMIT	512179	623058	7545	207216	60903	8121	1096345	1284879	994365	1748183
		UPPER LIMIT	2048716	2492233	30182	828865	243613	32486	4385380	5139517	3977461	6992734
015	ICB		1759529	2150252	25984	734975	212466	27792	3688365	4249102	3385599	5923979
016	ICSA		1480729	1923775	23944	639427	176602	24787	3091440	3405715	3052410	5295056
017	ICSAB		1446680	1918028	23520	582884	165922	24424	3086662	3419886	3041494	5291178
022	BLANK	QC414273	1582467	1925927	23832	676673	194594	25946	3386294	4056432	3100555	5499533
023	MSS	198975-001	1699885	2223382	29007	682241	188677	28838	3571335	4094683	3551746	5855577
024	PDS	QC414279	1617499	2197006	26596	745722	203377	27473	3423812	3929990	3494872	5649880
025	SAMPLE	198975-002	1666280	2329638	28249	783916	204758	27522	3513228	4033940	3918128	5782009
029	CCV		1699026	2150573	25385	716852	208342	27363	3576296	4065592	3371602	5841536
031	CCB		1652568	2033124	25401	713250	207300	27319	3528677	4072418	3252668	5616076
034	ICSA		1458665	1941303	24529	652363	181514	25455	3110128	3385500	3089039	5273936
035	ICSAB		1401177	1876365	23746	648733	179683	24795	3009088	3278699	2980152	5115568
039	SAMPLE	199010-003	1607814	1975467	23652	546666	161498	25463	3505417	4097355	3153042	5576398
040	BLANK	QC414656	1597339	1953859	24669	653201	191281	26367	3437625	4020475	3140140	5504492
041	BS	QC414657	1628865	2087417	24674	675169	195186	26593	3502792	3996883	3307460	5670425
042	BSD	QC414658	1585027	2012550	24657	670420	194475	26552	3395341	3893082	3183749	5520485
044	MSS	199010-004	1621980	2208906	28952	695143	196038	28931	3477601	3518064	3373487	5504354
045	MS	QC414659	1541587	2075620	27388	683690	195564	27678	3287753	3340842	3198546	5169884
046	MSD	QC414660	1627491	2257598	27814	678477	193140	27934	3532645	3541868	3445402	5581095
047	SAMPLE	199010-005	1527640	2107176	27524	672772	192060	27861	3300969	3307577	3215360	5202792
054	CCV		1704029	2099616	25041	676177	195220	26699	3528912	4038214	3320108	5701226
057	CCB		1743017	2123269	24963	613914	183490	27382	3672861	4202086	3352614	5827191
059	MSS	199010-004	1682300	2211626	27231	627641	179653	27163	3469956	3518130	3374320	5539068
060	MS	QC414659	1668724	2242100	27826	634746	180440	28000	3490053	3521872	3404529	5544885
061	MSD	QC414660	1692326	2258019	27437	631453	179993	27852	3517358	3556570	3436655	5575469
062	SAMPLE	199010-005	1684210	2220255	27846	634571	180735	27889	3484764	3507233	3404473	5505807
063	SAMPLE	199010-006	1759052	2286484	27545	675288	195836	28855	3676460	3820313	3507300	5808916
064	SAMPLE	199010-007	1756435	2336299	27135	630293	184585	28320	3723198	3833335	3567471	5877580
065	SAMPLE	199010-008	1756284	2275968	26625	666377	193342	27858	3678530	3957287	3488927	5877855
066	SAMPLE	199010-009	1767715	2294829	26417	619004	177080	27973	3688104	3909753	3539683	5884228
070	CCV		1721669	2130647	25123	644995	190025	26932	3558538	4062553	3355542	5770629
073	CCB		1756874	2125785	25413	617264	184819	27133	3662776	4205147	3377268	5761392
075	ICSA		1520275	1978269	24640	604991	169806	25415	3155133	3381230	3139427	5315199
076	ICSAB		1482357	1952130	25148	597975	168713	25584	3151587	3402839	3109723	5365385

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897451405 Instrument: MET16 Agilent ICP-MS MET16 Begun: 09-NOV-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	k0910001	TUN				09-NOV-2007 11:25	1.0	1.0			1	
002	k0910002	X	RINSE			09-NOV-2007 11:32	1.0				2	
003	k0910003	X	RINSE			09-NOV-2007 11:38	1.0				2	
004	k0910004	ICALBLK	CALBLANK			09-NOV-2007 11:44	1.0	1.0			2	
005	k0910005	ICAL				09-NOV-2007 11:50	1.0	1.0			3 2	
006	k0910006	ICAL				09-NOV-2007 11:56	1.0	1.0			4 2	
007	k0910007	ICAL				09-NOV-2007 12:02	1.0	1.0			5 2	
008	k0910008	ICAL				09-NOV-2007 12:08	1.0	1.0			6 2	
009	k0910009	ICAL				09-NOV-2007 12:14	1.0	1.0			7 2	
010	k0910010	ICAL				09-NOV-2007 12:20	1.0	1.0			8 2	
011	k0910011	X	RINSE			09-NOV-2007 12:26	1.0				2	
012	k0910012	ICV				09-NOV-2007 12:32	1.0	1.0		1	9 2	
013	k0910013	X	RINSE			09-NOV-2007 12:38	1.0				2	
014	k0910014	X				09-NOV-2007 12:44	1.0				2	
015	k0910015	ICB				09-NOV-2007 12:50	1.0	1.0		1	2	
016	k0910016	ICSA				09-NOV-2007 12:59	1.0	1.0		1	10 2	7:CA=315400
017	k0910017	ICSAB				09-NOV-2007 13:05	1.0	1.0		1	11 2	8:CA=294300
018	k0910018	X	RINSE			09-NOV-2007 13:11	1.0				2	
019	k0910019	X	RINSE			09-NOV-2007 13:17	1.0				2	
020	k0910020	X	RINSE			09-NOV-2007 13:23	1.0				2	
021	k0910021	X	RINSE			09-NOV-2007 13:29	1.0				2	
022	k0910022	BLANK	QC414273	131447	Soil	09-NOV-2007 13:35	5.0	50.0	1	1	2	
023	k0910023	MSS	198975-001	131447	Soil	09-NOV-2007 13:41	20.0	49.02	2	1	2	2:FE=41155.0
024	k0910024	PDS	QC414279	131447	Soil	09-NOV-2007 13:47	20.0	49.02	3	1	12 13 2	5:FE=46455.(
025	k0910025	SAMPLE	198975-002	131447	Soil	09-NOV-2007 13:52	10.0	46.30	2	1	2	4:FE=72120.0
026	k0910026	X	RINSE			09-NOV-2007 13:58	1.0				2	
027	k0910027	X	RINSE			09-NOV-2007 14:04	1.0				2	
028	k0910028	X	RINSE			09-NOV-2007 14:10	1.0				2	
029	k0910029	CCV				09-NOV-2007 14:16	1.0	1.0		1	14 2	
030	k0910030	X	RINSE			09-NOV-2007 14:23	1.0				2	
031	k0910031	CCB				09-NOV-2007 14:29	1.0	1.0		1	2	

Stds used: 1=S7593 2=S7605 3=S7596 4=S7597 5=S7598 6=S7599 7=S7594 8=S7595 9=S7600 10=S7602 11=S7603 12=S7477 13=S7478 14=S7601

Analyst: _____ Date: 11/12/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897451405 Instrument: MET16 Agilent ICP-MS MET16 Begun: 09-NOV-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	k0910032	X				09-NOV-2007 14:35	1.0					2	
033	k0910033	X				09-NOV-2007 14:41	1.0					2	
034	k0910034	ICSA				09-NOV-2007 14:47	1.0	1.0			1	10 2	7:CA=311400
035	k0910035	ICSAB				09-NOV-2007 14:53	1.0	1.0			1	11 2	8:CA=296700
036	k0910036	X	RINSE			09-NOV-2007 14:59	1.0					2	
037	k0910037	X	RINSE			09-NOV-2007 15:05	1.0					2	
038	k0910038	X	RINSE			09-NOV-2007 15:11	1.0					2	
039	k0910039	SAMPLE	199010-003	131537	Filtra	09-NOV-2007 15:16	1.0	1.0			1	2	
040	k0910040	BLANK	QC414656	131537	Filtra	09-NOV-2007 15:22	1.0	1.0	1		1	2	
041	k0910041	BS	QC414657	131537	Filtra	09-NOV-2007 15:28	1.0	1.0			1	2	
042	k0910042	BSD	QC414658	131537	Filtra	09-NOV-2007 15:35	1.0	1.0			1	2	
043	k0910043	X	RINSE			09-NOV-2007 15:42	1.0					2	
044	k0910044	MSS	199010-004	131537	Filtra	09-NOV-2007 15:48	20.0	1.0	5		1	2	4:NA=626500
045	k0910045	MS	QC414659	131537	Filtra	09-NOV-2007 15:54	20.0	1.0		2	1	2	4:NA=662500
046	k0910046	MSD	QC414660	131537	Filtra	09-NOV-2007 16:00	20.0	1.0		2	1	2	4:NA=663000
047	k0910047	SAMPLE	199010-005	131537	Filtra	09-NOV-2007 16:12	20.0	1.0			1	2	4:NA=653500
048	k0910048	X	RINSE			09-NOV-2007 16:18	1.0					2	
049	k0910049	X	RINSE			09-NOV-2007 16:24	1.0					2	
050	k0910050	X	RINSE			09-NOV-2007 16:30	1.0					2	
051	k0910051	X	RINSE			09-NOV-2007 16:56	1.0					2	
052	k0910052	X	RINSE			09-NOV-2007 17:02	1.0					2	
053	k0910053	X	RINSE			09-NOV-2007 17:08	1.0					2	
054	k0910054	CCV				09-NOV-2007 17:13	1.0	1.0			1	14 2	
055	k0910055	X	RINSE			09-NOV-2007 17:20	1.0					2	
056	k0910056	X				09-NOV-2007 17:26	1.0					2	
057	k0910057	CCB				09-NOV-2007 17:32	1.0	1.0	1		1	2	
058	k0910058	X				09-NOV-2007 17:38	1.0					2	
059	k0910059	MSS	199010-004	131537	Filtra	09-NOV-2007 17:44	20.0	1.0	5		1	2	4:NA=654000
060	k0910060	MS	QC414659	131537	Filtra	09-NOV-2007 17:50	20.0	1.0	1	2	1	2	4:NA=660500
061	k0910061	MSD	QC414660	131537	Filtra	09-NOV-2007 17:56	20.0	1.0	1	2	1	2	4:NA=673500
062	k0910062	SAMPLE	199010-005	131537	Filtra	09-NOV-2007 18:02	20.0	1.0			1	2	4:NA=669500

Stds used: 1=S7593 2=S7605 3=S7596 4=S7597 5=S7598 6=S7599 7=S7594 8=S7595 9=S7600 10=S7602 11=S7603 12=S7477 13=S7478 14=S7601

Analyst: _____ Date: 11/12/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 897451405 Instrument: MET16 Agilent ICP-MS MET16 Begun: 09-NOV-2007
Analytical Method: EPA 6020 SOP Version: 6020_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	k0910063	SAMPLE	199010-006	131537	Filtra	09-NOV-2007 18:08	20.0	1.0		1	2	3:NA=281150
064	k0910064	SAMPLE	199010-007	131537	Filtra	09-NOV-2007 18:14	20.0	1.0		1	2	4:NA=298200
065	k0910065	SAMPLE	199010-008	131537	Filtra	09-NOV-2007 18:20	20.0	1.0		1	2	2:NA=147000
066	k0910066	SAMPLE	199010-009	131537	Filtra	09-NOV-2007 18:26	20.0	1.0		1	2	1:NA=174750
067	k0910067	X	RINSE			09-NOV-2007 18:32	1.0				2	
068	k0910068	X	RINSE			09-NOV-2007 18:38	1.0				2	
069	k0910069	X	RINSE			09-NOV-2007 18:44	1.0				2	
070	k0910070	CCV				09-NOV-2007 18:50	1.0	1.0		1	14 2	
071	k0910071	X	RINSE			09-NOV-2007 18:55	1.0				2	
072	k0910072	X				09-NOV-2007 19:01	1.0				2	
073	k0910073	CCB				09-NOV-2007 19:07	1.0	1.0	2	1	2	
074	k0910074	X				09-NOV-2007 19:13	1.0				2	
075	k0910075	ICSA				09-NOV-2007 19:19	1.0	1.0		1	10 2	7:CA=312300
076	k0910076	ICSAB				09-NOV-2007 19:25	1.0	1.0		1	11 2	7:CA=291000

Stds used: 1=S7593 2=S7605 3=S7596 4=S7597 5=S7598 6=S7599 7=S7594 8=S7595 9=S7600 10=S7602 11=S7603 12=S7477 13=S7478 14=S7601

Analyst: _____ Date: 11/12/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198903 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
198903-001	MET08	11/05/07 09:50	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198903-001	MET14	11/06/07 14:55	1.0										+							
198903-002	MET08	11/05/07 10:01	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198903-002	MET14	11/06/07 15:18	1.0																	
198903-002	MET14	11/06/07 17:25	10.0										+							
198903-003	MET08	11/05/07 10:03	1.0			+	+	+	+	+	+	+		+	+	+	+	+	+	+
198903-003	MET08	11/05/07 11:28	1.0	+	+															
198903-003	MET14	11/06/07 15:20	1.0																	
198903-003	MET14	11/06/07 17:28	10.0										+							
198903-003	MET14	11/06/07 19:04	1.0																	
198903-006	MET08	11/05/07 10:06	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198903-006	MET08	11/05/07 11:30	1.0	+																
198903-006	MET14	11/06/07 15:22	1.0																	
198903-006	MET14	11/06/07 17:35	2.0										+							
198903-006	MET14	11/06/07 19:07	1.0																	
198903-007	MET16	11/08/07 19:11	200.0																	
198903-007	MET16	11/09/07 01:51	10.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
198903-007	MET14	11/12/07 14:12	1.0										+							
QC413589	MET08	11/05/07 09:26	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413590	MET08	11/05/07 09:30	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413591	MET08	11/05/07 09:33	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413592	MET08	11/05/07 09:52	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413593	MET08	11/05/07 09:54	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413594	MET08	11/05/07 09:56	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413595	MET08	11/05/07 09:59	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC413895	MET14	11/06/07 14:38	1.0										+							
QC413896	MET14	11/06/07 14:41	1.0										+							
QC413897	MET14	11/06/07 14:44	1.0										+							
QC413898	MET14	11/06/07 14:48	5.0										+							
QC413898	MET14	11/06/07 17:07	10.0																	
QC413899	MET14	11/06/07 14:50	1.0																	
QC413899	MET14	11/06/07 17:10	2.0										+							

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 198903 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN	
QC413900	MET14	11/06/07 14:53	1.0																		
QC413900	MET14	11/06/07 17:12	2.0										+								
QC413901	MET14	11/06/07 16:31	5.0																		
QC413901	MET14	11/06/07 20:01	5.0										+								
QC413902	MET14	11/06/07 15:00	1.0										+								
QC413903	MET14	11/06/07 15:07	1.0																		
QC413903	MET14	11/06/07 18:41	1.0										+								
QC413970	MET14	11/06/07 17:14	2.0										+								
QC413971	MET14	11/06/07 17:16	1.0																		
QC413971	MET14	11/06/07 17:46	2.0										+								
QC414273	MET16	11/09/07 13:35	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC414274	MET16	11/08/07 17:15	10.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC414275	MET16	11/08/07 17:23	10.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC414276	MET16	11/08/07 17:48	200.0												+					+	
QC414276	MET16	11/09/07 00:26	10.0	+	+	+	+	+	+	+	+	+		+		+	+	+	+		
QC414277	MET16	11/08/07 17:54	200.0			+									+					+	
QC414277	MET16	11/09/07 00:33	10.0	+	+		+	+	+	+	+	+		+		+	+	+	+		
QC414278	MET16	11/08/07 17:42	1000																		
QC414278	MET16	11/09/07 00:20	50.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC414279	MET16	11/08/07 18:00	200.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC414279	MET16	11/09/07 00:39	10.0																		
QC414279	MET16	11/09/07 13:47	20.0																		
QC414911	MET14	11/12/07 13:14	1.0										+								
QC414912	MET14	11/12/07 13:18	1.0										+								
QC414913	MET14	11/12/07 13:20	1.0										+								
QC414914	MET14	11/12/07 13:25	5.0										+								
QC414915	MET14	11/12/07 13:27	1.0										+								
QC414916	MET14	11/12/07 13:30	1.0										+								

Curtis & Tompkins Laboratories Sample Preparation Summary 02-NOV-2007 20:11

Batch Number : 131284
Date Extracted: 02-NOV-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198841-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198841-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198841-003			Hirst & Chanler	Miscell.	.88	g	50	56.818182	1					PB		
198844-001			Hirst & Chanler	Miscell.	.5	g	50	100.000000	1					PB		
198844-002			Hirst & Chanler	Miscell.	.55	g	50	90.909091	1					PB		
198845-001			Hirst & Chanler	Miscell.	1.02	g	50	49.019608	1					PB		
198845-002			Hirst & Chanler	Miscell.	1.1	g	50	45.454545	1					PB		
198847-001			Hirst & Chanler	Miscell.	.69	g	50	72.463768	1					PB		
198847-002			Hirst & Chanler	Miscell.	1.03	g	50	48.543689	1					PB		
198848-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198849-001			Hirst & Chanler	Miscell.	1.11	g	50	45.045045	1					PB		
198850-001			Hirst & Chanler	Miscell.	.7	g	50	71.428571	1					PB		
198850-002			Hirst & Chanler	Miscell.	1	g	50	50.000000	1					PB		
198852-001			Hirst & Chanler	Miscell.	1.04	g	50	48.076923	1					PB		
198880-001			Mactec, Inc.	Soil	1.07	g	50	46.728972	1					T26/ICP		
198880-002			Mactec, Inc.	Soil	1.01	g	50	49.504950	1					T26/ICP		
198903-001			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-002			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198903-003			Mactec, Inc.	Soil	1.06	g	50	47.169811	1					T26/ICP		
198903-006			Mactec, Inc.	Soil	1.08	g	50	46.296296	1					T26/ICP		
QC413589	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC413590	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413591	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC413592	MS	of 198903-001		Soil	1.06	g	50	47.169811	1		.5	.5		ICAP		
QC413593	MSD	of 198903-001		Soil	1.04	g	50	48.076923	1		.5	.5		ICAP		
QC413594	SER	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		
QC413595	PDS	of 198903-001		Soil	1.11	g	50	45.045045	1					ICAP		

Prep Chemist: Michael C Brock III 11/2/07 Reviewed By: [signature] Date: 11/5/07

Relinquished By: Michael C Brock III 11/2/07 Received By: [signature] Date: 11/5/07

1. **Soil Digestion for ICP & ICP-MS** Curtis & Tompkins, Ltd.

7:00PM

LIMS Batch #: 131284
Date Digested: 11/2/07
Digested by: MCB TTT

Digestion Method
☑ EPA 3050b
☐ _____

BK 2606
Page 19

	Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLANK	Ø	50	Y	
	BS	↓	↓	↓	
	BSD	↓	↓	↓	
	MS-903-001 BKNN	1.06	↓	↓	
5	MSD-903-001	1.04	↓	↓	
	198903-001	1.11	↓	↓	
	-002 G	1.11	↓	↓	
	-003	1.06	↓	↓	
	-006	1.08	↓	↓	
10	198880-001 G	1.07	↓	↓	
	-002 A	1.01	↓	↓	
	198841-001	1.04	↓	↓	
	-002	1.10	↓	↓	
	-003	.88	↓	↓	
15	198845-001 A	1.02	↓	↓	
	-002	1.10	↓	↓	
	198852-001	1.04	↓	↓	
	198850-001	0.70	↓	↓	
	-002	1.00	↓	↓	
20	198849-001	1.11	↓	↓	
	198848-001	1.11	↓	↓	
	198847-001	.69	↓	↓	
	-002	1.03	↓	↓	
	198844-001	.50	↓	↓	
	-002	.55	↓	↓	

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	MCB TTT 11/2/07
.5 mL of spike solution was added to all spikes	S6918	↓
	S6919	
1:1 HNO3	E09043 JT BAKER	
concentrated HNO3	E26035	
3mL 30% hydrogen peroxide	E26A05	
concentrated HCl	E33033	
☑ filtered thru' Whatman # 541	~~G191c096~~ H11206690	
Relinquished to ICP group		

Michael Crockett 11/2/07
Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/5/07
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 07-NOV-2007 22:28

Batch Number : 131447
Date Extracted: 07-NOV-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6470
Spike #2 ID : S6471
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198903-007			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
198975-001			Mactec, Inc.	Soil	1.02	g	50	49.019608	1					T26/ICP		
198975-002			Mactec, Inc.	Soil	1.08	g	50	46.296296	1					T26/ICP		
198975-003			Mactec, Inc.	Soil	1.09	g	50	45.871560	1					T26/ICP		
199006-001			CH2M Hill	Soil	1.02	g	50	49.019608	1					TAL/ICP		
199030-017			Northgate Environmental Manage	Soil	1.04	g	50	48.076923	1					T26/ICP		
199030-018			Northgate Environmental Manage	Soil	1.03	g	50	48.543689	1					T26/ICP		
QC414273	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC414274	BS			Soil	1	g	50	50.000000	1		.25	.25		ICAP		
QC414275	BSD			Soil	1	g	50	50.000000	1		.25	.25		ICAP		
QC414276	MS	of 198975-001		Soil	1.11	g	50	45.045045	1		.25	.25		ICAP		
QC414277	MSD	of 198975-001		Soil	1.01	g	50	49.504950	1		.25	.25		ICAP		
QC414278	SER	of 198975-001		Soil	1.02	g	50	49.019608	1					ICAP		
QC414279	PDS	of 198975-001		Soil	1.02	g	50	49.019608	1					ICAP		

0533

Prep Chemist: MCD III 11/7/07 Reviewed By: [signature] Date: 11/8/07

Relinquished By: MCD III 11/7/07 Received By: [signature] Date: 11/8/07

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 131447
Date Digested: 11/7/07
Digested by: MCB III

7.30PM
Digestion Method
☒ EPA 3050b
☐ _____

BK 2606
Page 38

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	Ø	50	Y	
BS	↓	↓	↓	
BSD	↓	↓	↓	
MS-975-001A	1.11			
MSD-975-001	1.01			
198975-001	1.02			
↓ -002	1.08			
↓ -003	1.09			
199006 -001 ↓	1.02			
198903 -007 B	1.11			
199030 -017 A	1.04			
↓ -018 ↓	1.03	↓	↓	

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	MCB III 11/7/07
.25 mL of spike solution was added to all spikes	86470	↓
	86471	
1:1 HNO3	509043 Stock	
concentrated HNO3	526035	
3mL 30% hydrogen peroxide	526A65	
concentrated HCl	521053	
☒ filtered thru' Whatman # 541	H1206689	
Relinquished to ICP group		

Michael C Mock III 11/7/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

11/8/07
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET14
alnum : 847447240001
nits : ug/L

Date : 06-NOV-2007 14:00
X Axis : R

Reviewer : ---
Type : SOIL

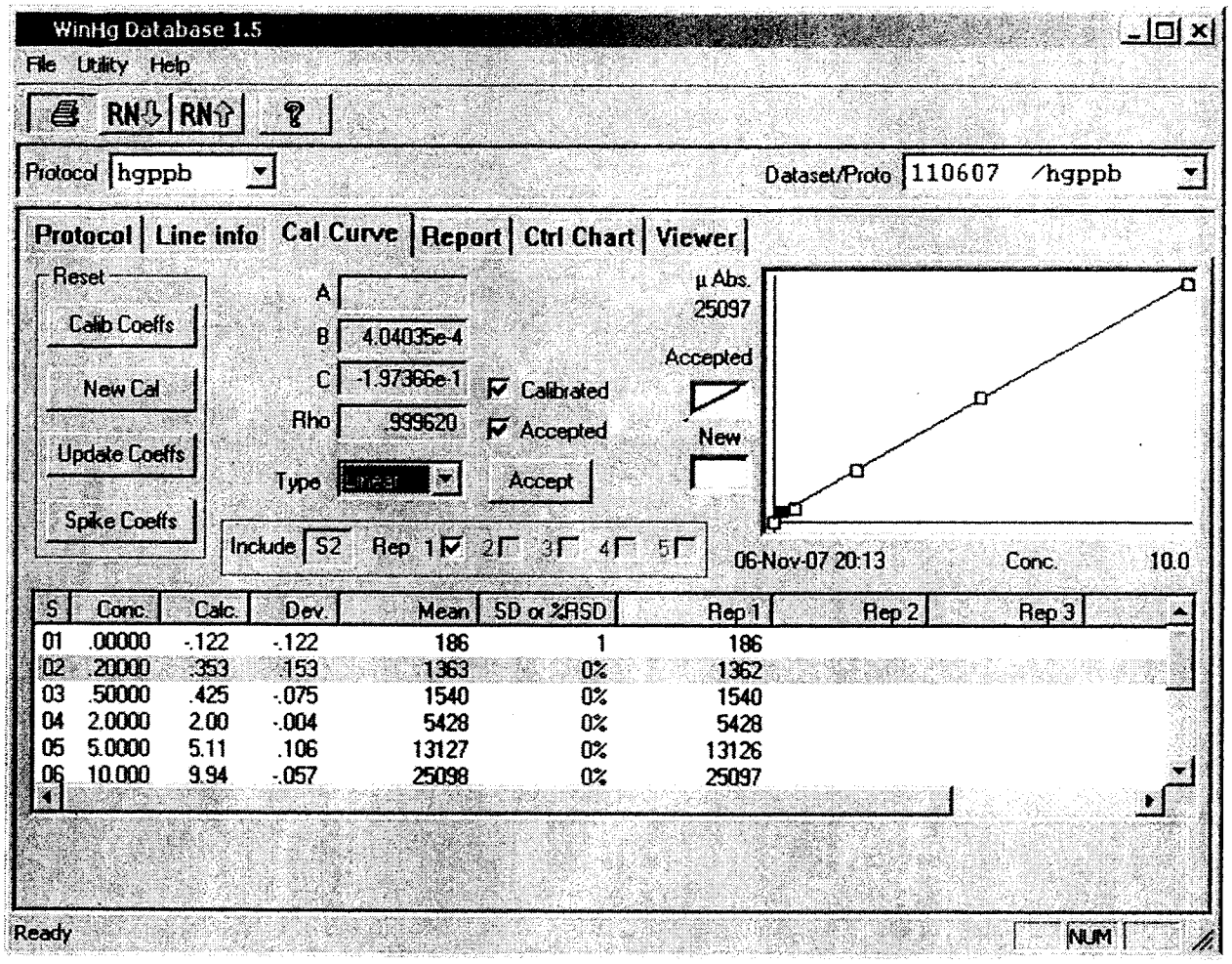
evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	131359	847447240002	STD03REP1	06-NOV-2007 14:04	S7606 (200X)
L2	131359	847447240003	STD04REP1	06-NOV-2007 14:07	S7606 (50X)
L3	131359	847447240004	STD05REP1	06-NOV-2007 14:09	S7606 (20X)
L4	131359	847447240005	STD06REP1	06-NOV-2007 14:11	S7606 (10X)
L5	131359	847447240006	STD02REP1	06-NOV-2007 14:17	S7606 (500X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ercury	3080.0	2714.0	2625.2	2509.7	6810.0	LINR	-0.1974	4.04E-4		3547.8	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
ercury	0.500	-15	2.000	0	5.000	2	10.00	-1	0.200	76

t[illegible]ment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

847447240001


WinHg Database 1.5
File Utility Help
RN⇩ RN⇧
Protocol hgppb
Dataset/Proto 110607 /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 4.04035e-4
C -1.97366e-1
Rho .999620
Type Linear
Calibrated
Accepted
Accept
µ Abs.
25097
Accepted
New
Include S2 Rep 1 2 3 4 5
06-Nov-07 20:13
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.122 -.122 186 1 186
02 .20000 .353 .153 1363 0% 1362
03 .50000 .425 -.075 1540 0% 1540
04 2.0000 2.00 -.004 5428 0% 5428
05 5.0000 5.11 .106 13127 0% 13126
06 10.000 9.94 -.057 25098 0% 25097
Ready
NUM

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		14:00:05 06 Nov 07		HG	
Hg	.000	ppb	186						
		Bkgd 1	17577254						=
									=
*** Standard: 3 Rep: 1				Seq: 3		14:04:58 06 Nov 07		HG	
Hg	.500	ppb	1540						
		Bkgd 1	17565824						=
									=
*** Standard: 4 Rep: 1				Seq: 4		14:07:06 06 Nov 07		HG	
Hg	2.00	ppb	5428						
		Bkgd 1	17561475						=
									=
*** Standard: 5 Rep: 1				Seq: 5		14:09:23 06 Nov 07		HG	
Hg	5.00	ppb	13126						
		Bkgd 1	17558290						=
									=
*** Standard: 6 Rep: 1				Seq: 6		14:11:42 06 Nov 07		HG	
Hg	10.0	ppb	25097						
		Bkgd 1	17550767						=
									=
*** Standard: 2 Rep: 1				Seq: 7		14:17:44 06 Nov 07		HG	
Hg	.200	ppb	1362						
		Bkgd 1	17544255						=
									=
*** Check Standard: 2			Ck2S7608	Seq: 8		14:32:32 06 Nov 07		HG	
Line Flag			Intensities						
Hg			13265						
		Bkgd 1	17508029						=
									=
*** Check Standard: 1			Ck1ICB	Seq: 9		14:36:16 06 Nov 07		HG	
Line Flag			Intensities						
Hg			166						
		Bkgd 1	17519749						=
									=
*** Sample ID: qc413895				Seq: 10		14:38:30 06 Nov 07		HG	
			131359,1						
Hg	-.190	ppb	17						
		Bkgd 1	17521504						=
									=

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 847447240 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 06-NOV-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131359	ICALBLK	STD01REP1				06-NOV-2007 14:00	1.0	1.0									
131359	ICAL	STD03REP1				06-NOV-2007 14:04	1.0	1.0									
131359	ICAL	STD04REP1				06-NOV-2007 14:07	1.0	1.0									
131359	ICAL	STD05REP1				06-NOV-2007 14:09	1.0	1.0									
131359	ICAL	STD06REP1				06-NOV-2007 14:11	1.0	1.0									
131359	ICAL	STD02REP1				06-NOV-2007 14:17	1.0	1.0									
131359	ICV					06-NOV-2007 14:32	1.0	1.0	2	5.000	847447240001	5.160		ug/L	103		
131359	ICB					06-NOV-2007 14:36	1.0	1.0			847447240001	ND	0.20	ug/L			
131359	BLANK	QC413895		131359	Soil	06-NOV-2007 14:38	1.0	100.0			847447240001	ND	0.020	mg/Kg			u
131359	BS	QC413896		131359	Soil	06-NOV-2007 14:41	1.0	100.0		0.5000	847447240001	0.5320	0.020	mg/Kg	106		u
131359	BSD	QC413897		131359	Soil	06-NOV-2007 14:44	1.0	100.0		0.5000	847447240001	0.5180	0.020	mg/Kg	104	3	u
131359	MSS	198885-001		131359	Soil	06-NOV-2007 14:46	1.0	86.21			847447240001	0.34	0.020	mg/Kg			u
131359	SER	QC413898	198885-001	131359	Soil	06-NOV-2007 14:48	5.0	86.21			847447240001	0.27	0.086	mg/Kg		22	u
131359	MS	QC413899	198885-001	131359	Soil	06-NOV-2007 14:50	1.0	96.15		0.4808	847447240001	0.9250	0.020	mg/Kg	121		
131359	MSD	QC413900	198885-001	131359	Soil	06-NOV-2007 14:53	1.0	80.65		0.4032	847447240001	0.8871 >LR	0.020	mg/Kg	135	--	>LR b*
131359	MSS	198903-001		131359	Soil	06-NOV-2007 14:55	1.0	79.37			847447240001	0.68	0.020	mg/Kg			u
131359	MS	QC413902	198903-001	131359	Soil	06-NOV-2007 15:00	1.0	90.91		0.4545	847447240001	0.7955	0.020	mg/Kg	25*		u
131359	CCV					06-NOV-2007 15:02	1.0	1.0	3	2.500	847447240001	2.490		ug/L	100		
131359	CCB					06-NOV-2007 15:05	1.0	1.0			847447240001	ND	0.20	ug/L			
131359	MSD	QC413903	198903-001	131359	Soil	06-NOV-2007 15:07	1.0	80.65		0.4032	847447240001	0.6573	0.020	mg/Kg	-6*	14	>ib b*
131359	SAMPLE	198885-002		131359	Soil	06-NOV-2007 15:09	1.0	81.97			847447240001	3.0 >LR	0.020	mg/Kg			>LR >ib
131359	SAMPLE	198889-001		131359	Miscel	06-NOV-2007 15:12	1.0	100.0			847447240001	74 >LR	0.020	mg/Kg			>LR >ib
131359	SAMPLE	198889-002		131359	Miscel	06-NOV-2007 15:15	1.0	89.29			847447240001	16 >LR	0.020	mg/Kg			>LR >ib
131359	SAMPLE	198903-002		131359	Soil	06-NOV-2007 15:18	1.0	78.13			847447240001	4.0 >LR	0.020	mg/Kg			>LR >ib
131359	SAMPLE	198903-003		131359	Soil	06-NOV-2007 15:20	1.0	96.15			847447240001	4.2 >LR	0.020	mg/Kg			>LR >ib
131359	SAMPLE	198903-006		131359	Soil	06-NOV-2007 15:22	1.0	89.29			847447240001	1.0 >LR	0.020	mg/Kg			>LR >ib
131359	SAMPLE	198908-002		131359	Soil	06-NOV-2007 15:25	1.0	100.0			847447240001	0.76	0.020	mg/Kg			>ib b*
131359	SAMPLE	198908-003		131359	Soil	06-NOV-2007 15:27	1.0	96.15			847447240001	1.1 >LR	0.020	mg/Kg			>LR >ib
131359	SAMPLE	198908-006		131359	Soil	06-NOV-2007 15:30	1.0	94.34			847447240001	0.79	0.020	mg/Kg			>ib b*
131359	CCV					06-NOV-2007 15:32	1.0	1.0	4	5.000	847447240001	5.560		ug/L	111		
131359	CCB					06-NOV-2007 15:34	1.0	1.0			847447240001	0.2950	0.20	ug/L			ib b*
131359	SAMPLE	198908-009		131359	Soil	06-NOV-2007 15:36	1.0	87.72			847447240001	0.39	0.020	mg/Kg			<ib b*
131359	SAMPLE	198908-010		131359	Soil	06-NOV-2007 15:39	1.0	79.37			847447240001	0.30	0.020	mg/Kg			<ib b*
131359	SAMPLE	198908-011		131359	Soil	06-NOV-2007 15:41	1.0	96.15			847447240001	0.31	0.020	mg/Kg			<ib b*
131359	SAMPLE	198921-001		131359	Miscel	06-NOV-2007 15:43	1.0	94.34			847447240001	11 >LR	0.020	mg/Kg			<ib >LR
131359	SAMPLE	198921-002		131359	Miscel	06-NOV-2007 15:45	1.0	79.37			847447240001	1.7 >LR	0.020	mg/Kg			<ib >LR
131359	SAMPLE	198929-002		131359	Soil	06-NOV-2007 15:48	1.0	96.15			847447240001	5.6 >LR	0.020	mg/Kg			<ib >LR
131359	SAMPLE	198929-003		131359	Soil	06-NOV-2007 15:50	1.0	86.21			847447240001	0.12	0.020	mg/Kg			<ib b*
131359	SAMPLE	198929-005		131359	Soil	06-NOV-2007 15:53	1.0	83.33			847447240001	0.80	0.020	mg/Kg			<ib b*
131359	SAMPLE	198929-006		131359	Soil	06-NOV-2007 15:56	1.0	89.29			847447240001	0.11	0.020	mg/Kg			<ib b*
131359	SER	QC413901	198903-001	131359	Soil	06-NOV-2007 16:31	5.0	79.37			847447240001	0.68	0.079	mg/Kg		0	<ib b*
131359	CCV					06-NOV-2007 17:01	1.0	1.0	5	7.500	847447240001	7.780		ug/L	104		
131359	CCB					06-NOV-2007 17:05	1.0	1.0			847447240001	[0.04300]	0.20	ug/L			

s used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
gs used: !=warning <=opening >=closing >LR=overrange b=noncompliant calc=check quantitation ib=instrument blank u=use

alyst: _____ Date: 11707

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 847447240 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 06-NOV-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131359	SER	QC413898	198885-001	131359	Soil	06-NOV-2007 17:07	10.0	86.21			847447240001	0.29	0.17	mg/Kg			
131359	MS	QC413899	198885-001	131359	Soil	06-NOV-2007 17:10	2.0	96.15		0.4808	847447240001	1.021	0.038	mg/Kg	141		u
131359	MSD	QC413900	198885-001	131359	Soil	06-NOV-2007 17:12	2.0	80.65		0.4032	847447240001	0.9468	0.032	mg/Kg	150*	2	u
131359	PDS	QC413970	198885-001	131359	Soil	06-NOV-2007 17:14	2.0	86.21	1	0.8621	847447240001	0.9190	0.034	mg/Kg	61*		u
131359	PDS	QC413971	198903-001	131359	Soil	06-NOV-2007 17:16	1.0	79.37	1	0.3968	847447240001	1.198 >LR	0.020	mg/Kg	130		>LR b*
131359	SAMPLE	198885-002		131359	Soil	06-NOV-2007 17:19	5.0	81.97			847447240001	3.1	0.082	mg/Kg			u
131359	SAMPLE	198889-001		131359	Miscel	06-NOV-2007 17:21	200.0	100.0			847447240001	800 >LR	4.0	mg/Kg			>LR cal
131359	SAMPLE	198889-002		131359	Miscel	06-NOV-2007 17:23	50.0	89.29			847447240001	3.4	0.89	mg/Kg			u
131359	SAMPLE	198903-002		131359	Soil	06-NOV-2007 17:25	10.0	78.13			847447240001	1.2	0.16	mg/Kg			u
131359	SAMPLE	198903-003		131359	Soil	06-NOV-2007 17:28	10.0	96.15			847447240001	1.4	0.19	mg/Kg			u
131359	CCV					06-NOV-2007 17:31	1.0	1.0	4	5.000	847447240001	5.140		ug/L	103		
131359	CCB					06-NOV-2007 17:33	1.0	1.0			847447240001	ND	0.20	ug/L			
131359	SAMPLE	198903-006		131359	Soil	06-NOV-2007 17:35	2.0	89.29			847447240001	0.19	0.036	mg/Kg			u
131359	SAMPLE	198908-003		131359	Soil	06-NOV-2007 17:37	2.0	96.15			847447240001	0.043	0.038	mg/Kg			u
131359	SAMPLE	198921-001		131359	Miscel	06-NOV-2007 17:39	20.0	94.34			847447240001	8.0	0.38	mg/Kg			u
131359	SAMPLE	198921-002		131359	Miscel	06-NOV-2007 17:41	5.0	79.37			847447240001	1.2	0.079	mg/Kg			u
131359	SAMPLE	198929-002		131359	Soil	06-NOV-2007 17:43	10.0	96.15			847447240001	4.6	0.19	mg/Kg			u
131359	PDS	QC413971	198903-001	131359	Soil	06-NOV-2007 17:46	2.0	79.37	1	0.7937	847447240001	1.170	0.032	mg/Kg	61*		u
131359	SAMPLE	198889-001		131359	Miscel	06-NOV-2007 17:48	1000	100.0			847447240001	780	20	mg/Kg			u
131359	CCV					06-NOV-2007 17:50	1.0	1.0	3	2.500	847447240001	2.600		ug/L	104		
131359	CCB					06-NOV-2007 17:52	1.0	1.0			847447240001	ND	0.20	ug/L			
131359	MSS	198885-001		131359	Soil	06-NOV-2007 18:08	2.0	86.21			847447240001	0.39	0.034	mg/Kg			
131359	CCV					06-NOV-2007 18:11	1.0	1.0	5	7.500	847447240001	7.770		ug/L	104		
131359	CCB					06-NOV-2007 18:13	1.0	1.0			847447240001	ND	0.20	ug/L			
131359	MSD	QC413903	198903-001	131359	Soil	06-NOV-2007 18:41	1.0	80.65		0.4032	847447240001	0.6661	0.020	mg/Kg	-4*	13	u
131359	SAMPLE	198885-002		131359	Soil	06-NOV-2007 18:43	1.0	81.97			847447240001	3.0 >LR	0.020	mg/Kg			>LR b*
131359	SAMPLE	198889-001		131359	Miscel	06-NOV-2007 18:46	1.0	100.0			847447240001	74 >LR	0.020	mg/Kg			>LR cal
131359	SAMPLE	198889-002		131359	Miscel	06-NOV-2007 18:58	1.0	89.29			847447240001	17 >LR	0.020	mg/Kg			>LR cal
131359	SAMPEL	198903-002		131359	Soil	06-NOV-2007 19:01	1.0	78.13			847447240001	3.672	0.020	mg/Kg			>LR cal
131359	SAMPLE	198903-003		131359	Soil	06-NOV-2007 19:04	1.0	96.15			847447240001	3.2 >LR	0.020	mg/Kg			>LR b*
131359	SAMPLE	198903-006		131359	Soil	06-NOV-2007 19:07	1.0	89.29			847447240001	0.53	0.020	mg/Kg			
131359	SAMPLE	198908-002		131359	Soil	06-NOV-2007 19:09	1.0	100.0			847447240001	0.29	0.020	mg/Kg			u
131359	SAMPLE	198908-003		131359	Soil	06-NOV-2007 19:11	1.0	96.15			847447240001	0.35	0.020	mg/Kg			u
131359	SAMPLE	198908-006		131359	Soil	06-NOV-2007 19:14	1.0	94.34			847447240001	0.30	0.020	mg/Kg			u
131359	CCV					06-NOV-2007 19:17	1.0	1.0	5	7.500	847447240001	7.790		ug/L	104		
131359	CCB					06-NOV-2007 19:19	1.0	1.0			847447240001	[0.1030]	0.20	ug/L			!ib
131359	SAMPLE	198908-006		131359	Soil	06-NOV-2007 19:22	1.0	94.34			847447240001	0.22	0.020	mg/Kg			
131359	SAMPLE	198908-010		131359	Soil	06-NOV-2007 19:25	1.0	79.37			847447240001	0.15	0.020	mg/Kg			u
131359	SAMPLE	198908-011		131359	Soil	06-NOV-2007 19:27	1.0	96.15			847447240001	0.14	0.020	mg/Kg			u
131359	SAMPLE	198921-001		131359	Miscel	06-NOV-2007 19:30	1.0	94.34			847447240001	10 >LR	0.020	mg/Kg			>LR cal
131359	SAMPLE	198921-002		131359	Miscel	06-NOV-2007 19:33	1.0	79.37			847447240001	1.4 >LR	0.020	mg/Kg			>LR b*
131359	SAMPLE	198929-002		131359	Soil	06-NOV-2007 19:35	1.0	96.15			847447240001	5.4 >LR	0.020	mg/Kg			>LR b*
131359	SAMPLE	198929-003		131359	Soil	06-NOV-2007 19:38	1.0	86.21			847447240001	0.072	0.020	mg/Kg			u

s used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
g used: !=warning <=opening >=closing >LR=overrange b=noncompliant calc=check quantitation ib=instrument blank u=use

alyst: _____ Date: 11/7/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 847447240 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 06-NOV-2007
alytical Method: EPA 7470A. SOP Version: HG_water_rv7
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131359	SAMPLE	198929-005		131359	Soil	06-NOV-2007 19:40	1.0	83.33			847447240001	0.74	0.020	mg/Kg			u
131359	SAMPLE	198929-006		131359	Soil	06-NOV-2007 19:42	1.0	89.29			847447240001	0.043	0.020	mg/Kg			u
131359	X	X		131359	Soil	06-NOV-2007 19:44	5.0	79.37			847447240001	0.1988	0.079	mg/Kg			u
131359	CCV					06-NOV-2007 19:46	1.0	1.0	4	5.000	847447240001	5.190		ug/L	104		
131359	CCB					06-NOV-2007 19:49	1.0	1.0			847447240001	[0.002000]	0.20	ug/L			
131359	SER	QC413901	198903-001	131359	Soil	06-NOV-2007 20:01	5.0	79.37			847447240001	0.68	0.079	mg/Kg	0		u
131359	CCV					06-NOV-2007 20:03	1.0	1.0	4	5.000	847447240001	5.180		ug/L	104		
131359	CCB					06-NOV-2007 20:06	1.0	1.0			847447240001	ND	0.20	ug/L			

s used: 1=S7606 2=S7608 3=S7609 4=S7610 5=S7611
g used: !=warning <=opening >=closing >LR=overrange b=noncompliant calc=check quantitation ib=instrument blank u=use

alyst: _____ Date: 11/7/07

Curtis & Tompkins Laboratories Sample Preparation Summary 06-NOV-2007 16:24

Batch Number : 131359
Date Extracted: 06-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7606
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198885-001			CH2M Hill	Soil	.58	g	50	86.206897	1				T26/HG		MSS
198885-002			CH2M Hill	Soil	.61	g	50	81.967213	1				T26/HG		
198889-001			ConocoPhillips Company	Miscell.	.5	g	50	100.000000	1				T26/HG		
198889-002			ConocoPhillips Company	Miscell.	.56	g	50	89.285714	1				T26/HG		
198903-001			Mactec, Inc.	Soil	.63	g	50	79.365079	1				T26/HG		MSS
198903-002			Mactec, Inc.	Soil	.64	g	50	78.125000	1				T26/HG		
198903-003			Mactec, Inc.	Soil	.52	g	50	96.153846	1				T26/HG		
198903-006			Mactec, Inc.	Soil	.56	g	50	89.285714	1				T26/HG		
198908-002			Kleinfelder	Soil	.5	g	50	100.000000	1				T26/HG		
198908-003			Kleinfelder	Soil	.52	g	50	96.153846	1				T26/HG		
198908-006			Kleinfelder	Soil	.53	g	50	94.339623	1				T26/HG		
198908-009			Kleinfelder	Soil	.57	g	50	87.719298	1				T26/HG		
198908-010			Kleinfelder	Soil	.63	g	50	79.365079	1				T26/HG		
198908-011			Kleinfelder	Soil	.52	g	50	96.153846	1				T26/HG		
198921-001			ConocoPhillips Company	Miscell.	.53	g	50	94.339623	1				T26/HG		
198921-002			ConocoPhillips Company	Miscell.	.63	g	50	79.365079	1				T26/HG		
198929-002			Northgate Environmental Manage	Soil	.52	g	50	96.153846	1				T26/HG		
198929-003			Northgate Environmental Manage	Soil	.58	g	50	86.206897	1				T26/HG		
198929-005			Northgate Environmental Manage	Soil	.6	g	50	83.333333	1				T26/HG		
198929-006			Northgate Environmental Manage	Soil	.56	g	50	89.285714	1				T26/HG		
QC413895	BLANK			Soil	.5	g	50	100.000000	1				HG		
QC413896	BS			Soil	.5	g	50	100.000000	1	2.5			HG		
QC413897	BSD			Soil	.5	g	50	100.000000	1	2.5			HG		
QC413898	SER	of 198885-001		Soil	.58	g	50	86.206897	1				HG		
QC413899	MS	of 198885-001		Soil	.52	g	50	96.153846	1	2.5			HG		
QC413900	MSD	of 198885-001		Soil	.62	g	50	80.645161	1	2.5			HG		
QC413901	SER	of 198903-001		Soil	.63	g	50	79.365079	1				HG		
QC413902	MS	of 198903-001		Soil	.55	g	50	90.909091	1	2.5			HG		
QC413903	MSD	of 198903-001		Soil	.62	g	50	80.645161	1	2.5			HG		
QC413970	PDS	of 198885-001		Soil	.58	g	50	86.206897	1				HG		
QC413971	PDS	of 198903-001		Soil	.63	g	50	79.365079	1				HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/7/07

Relinquished By: _____ Received By: _____ Date: 11/6/07

T1S99

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 13|359

Date Digested: 11/6/07

Digested by: SXM

Digestion Method

☒ EPA 7471A

☐ _____

BK 2605

Page 14

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
1988865-001 A	0.58	50.0	Y	MSS
↓ 02	0.61			
1988889-001	0.50			
↓ 02	0.56			
1988903-001 M	0.63			MSS
02	0.64			
03	0.52			
↓ 06	0.56			
1988908-002 A	0.50			
03	0.52			
06	0.53			
09	0.57			
10	0.63			
↓ 11	0.52			
1988921-001	0.53			
↓ 02	0.63			
1988929-002	0.52			
03	0.58			
05	0.60			
↓ 06	0.56			
MB QC#13595	0.50			
BS 896				
BSD 897				
MS 899	0.52			of 1988865-001
MSD ↓ 900	0.62			↓

2.5 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	S7606	SXM 11/6/07
ICAL Source WS#	↓	
ICV / CCV WS#	S7606|09|10|11	
Digestion of Samples & Standards: Time ON / Temperature ON	12:30 | 95°C	
Time OFF/ Temperature OFF	13:00 | 95°C	
Aqua Regia Acids (HNO3+ HCl)	AR 110607	
5% $KMnO_4$	K 103107	
NaCl.hydroxylamine hydrochloride	Hg 101807	
Stannous Chloride	$SnCl_2$ 110507	
☒ filtered thru' 0.45 um syringe filter	R7C029862	

11/6/07

Prep Chemist / Date

Continued from page 1

Continued on page 15

11/6/07

Reviewed by / Date

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 131359

Date Digested: 111507

Digested by: JXM

Digestion Method

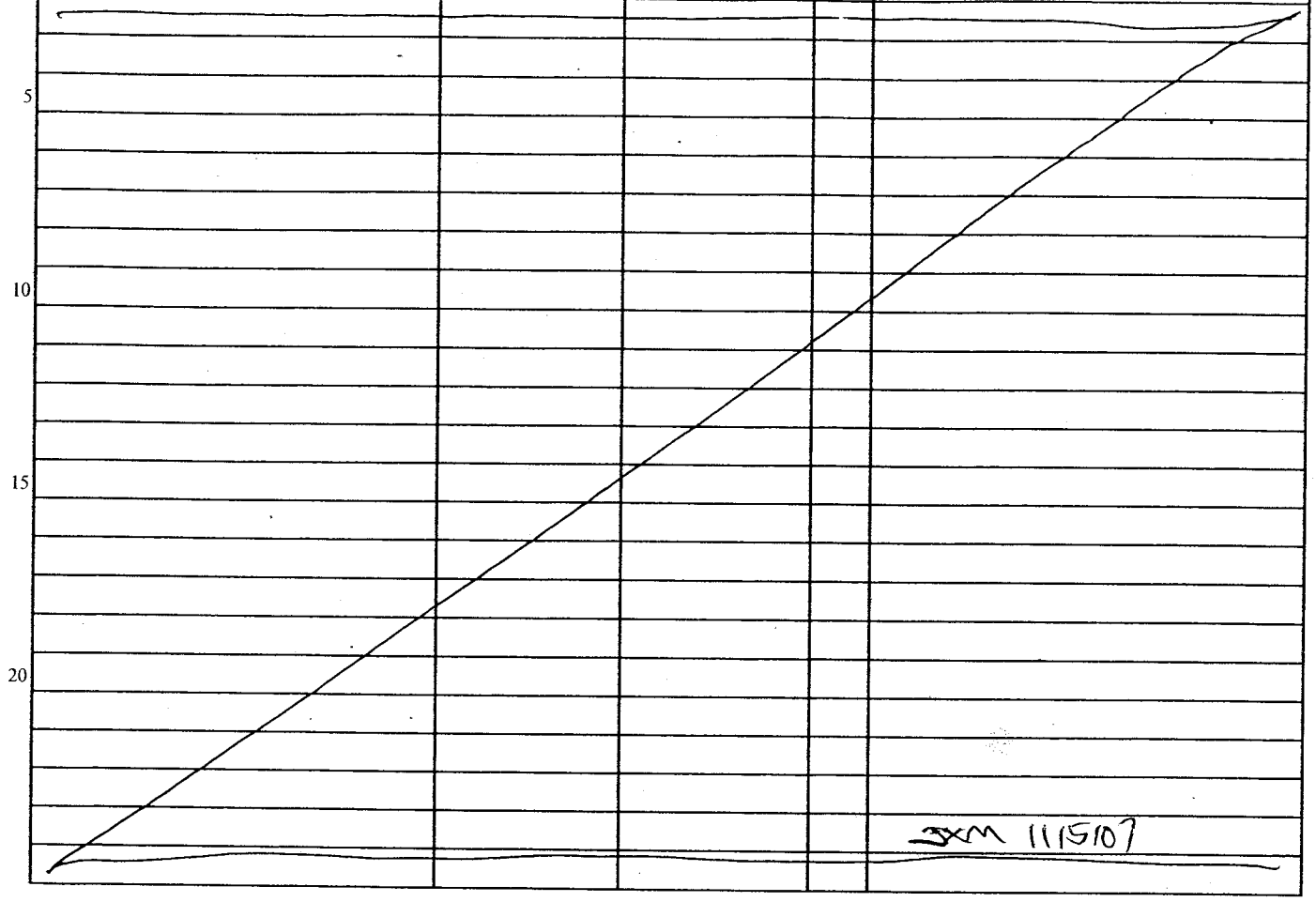
☒ EPA 7471A

☐ _____

BK 2605

Page 15

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
MS BC413902	0.55	50.0	Y	of 198903-001
MSD ↓ 03	0.62	↓	↓	↓



Digestion of Samples & Standards:	Reagent ID/ LIMS# / Time	Initials / Date
25 mL of spike solution was added to all spikes	S7606	JXM 111607
ICAL Source WS#	↓	↓
ICV / CCV WS#	S7606/09/10/11	
Time ON / Temperature ON	12:30/95°C	
Time OFF/ Temperature OFF	13:00/95°C	
Aqua Regia Acids (HNO3+ HCl)	AR/10607	
5% $KMnO_4$	K10607	
NaCl.hydroxylamine hydrochloride	Hy/10607	
Stannous Chloride	$SnCl_2$/10607	
☒ filtered thru' 0.45 um syringe filter	R7CN25662	

111607

Continued from page 14

11/6/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET14
Calnum : 847455802001
Units : ug/L

Date : 12-NOV-2007 12:42
X Axis : R

Reviewer : ---
Type : SOIL

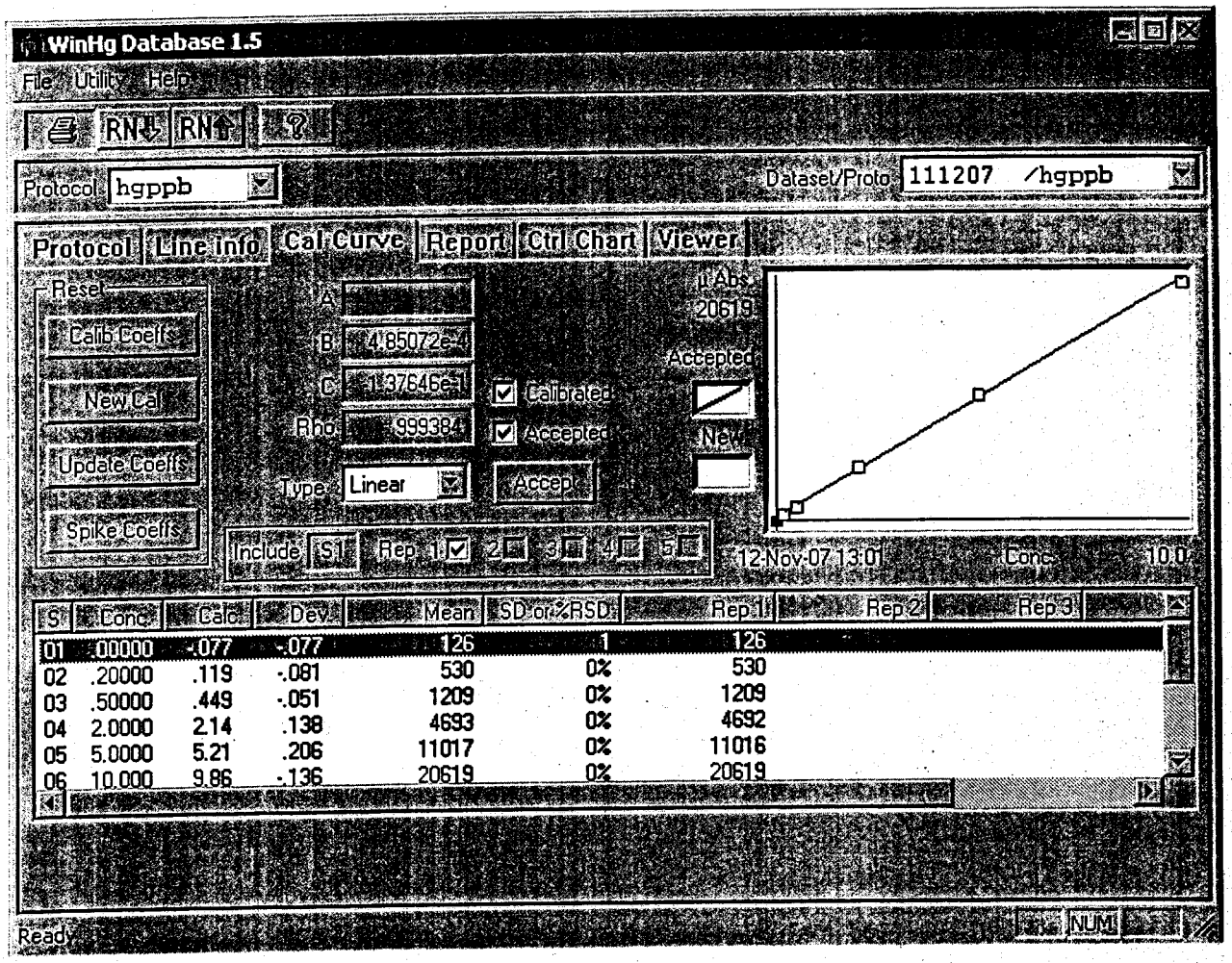
Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	131609	847455802002	STD02REP1	12-NOV-2007 12:44	S7675 (500X)
L2	131609	847455802003	STD03REP1	12-NOV-2007 12:46	S7675 (200X)
L3	131609	847455802004	STD04REP1	12-NOV-2007 12:48	S7675 (50X)
L4	131609	847455802005	STD05REP1	12-NOV-2007 12:51	S7675 (20X)
L5	131609	847455802006	STD06REP1	12-NOV-2007 12:54	S7675 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	2650.0	2418.0	2346.0	2203.2	2061.9	LINR	-0.1376	4.85E-4		2335.8	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Mercury	0.200	-40	0.500	-10	2.000	7	5.000	4	10.00	-1

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

847455802001


WinHg Database 1.5
File Utility Help
RN RN
Protocol hgppb
Dataset/Proto 111207 /hgppb
Protocol Line Info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 4.85072e-4
C 1.37646e-1
Rho .999384
Type Linear
Calibrated
Accepted
Accept
µ Abs
20619
Accepted
New
12-Nov-07 13:01
Conc 10.0
Include S1 Rep 1 2 3 4 5
S# Conc Calc Dev Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.077 -.077 126 1 126
02 .20000 .119 -.081 530 0% 530
03 .50000 .449 -.051 1209 0% 1209
04 2.0000 2.14 .138 4693 0% 4692
05 5.0000 5.21 .206 11017 0% 11016
06 10.000 9.86 -.136 20619 0% 20619
Ready
NUM

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		12:42:03 12 Nov 07		HG	
Hg	.000	ppb	126						=
		Bkgd 1	17417325						=
*** Standard: 2 Rep: 1				Seq: 2		12:44:37 12 Nov 07		HG	
Hg	.200	ppb	530						=
		Bkgd 1	17415439						=
*** Standard: 3 Rep: 1				Seq: 3		12:46:43 12 Nov 07		HG	
Hg	.500	ppb	1209						=
		Bkgd 1	17413067						=
*** Standard: 4 Rep: 1				Seq: 4		12:48:47 12 Nov 07		HG	
Hg	2.00	ppb	4692						=
		Bkgd 1	17408572						=
*** Standard: 5 Rep: 1				Seq: 5		12:51:27 12 Nov 07		HG	
Hg	5.00	ppb	11016						=
		Bkgd 1	17401720						=
*** Standard: 6 Rep: 1				Seq: 6		12:54:06 12 Nov 07		HG	
Hg	10.0	ppb	20619						=
		Bkgd 1	17397653						=
*** Check Standard: 2			Ck2S7677	Seq: 7		13:03:24 12 Nov 07		HG	
Line Flag			Intensities						
Hg			11072						=
		Bkgd 1	17382183						=
*** Check Standard: 1			Ck1ICB	Seq: 8		13:07:08 12 Nov 07		HG	
Line Flag			Intensities						
Hg			62						=
		Bkgd 1	17377737						=
*** Sample ID: qc414911			131609,1	Seq: 11		13:14:46 12 Nov 07		HG	
Hg	-.074	ppb	132						=
		Bkgd 1	17389618						=

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 847455802 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 12-NOV-2007
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	131609	ICALBLK	STD01REP1				12-NOV-2007 12:42	1.0	1.0									
002	131609	ICAL	STD02REP1				12-NOV-2007 12:44	1.0	1.0									
003	131609	ICAL	STD03REP1				12-NOV-2007 12:46	1.0	1.0									
004	131609	ICAL	STD04REP1				12-NOV-2007 12:48	1.0	1.0									
005	131609	ICAL	STD05REP1				12-NOV-2007 12:51	1.0	1.0									
006	131609	ICAL	STD06REP1				12-NOV-2007 12:54	1.0	1.0									
007	131609	ICV					12-NOV-2007 13:03	1.0	1.0	2	5.000	847455802001	5.230		ug/L	105		
008	131609	ICB					12-NOV-2007 13:07	1.0	1.0			847455802001	ND	0.20	ug/L			
009	131609	BLANK	QC414911		131609	Soil	12-NOV-2007 13:14	1.0	100.0			847455802001	ND	0.020	mg/Kg			u
010	131609	BS	QC414912		131609	Soil	12-NOV-2007 13:18	1.0	100.0		0.5000	847455802001	0.5400	0.020	mg/Kg	108		u
011	131609	BSD	QC414913		131609	Soil	12-NOV-2007 13:20	1.0	100.0		0.5000	847455802001	0.5490	0.020	mg/Kg	110	2	u
012	131609	MSS	198974-004		131609	Soil	12-NOV-2007 13:22	1.0	89.29			847455802001	0.0052 J	0.020	mg/Kg			u
013	131609	SER	QC414914	198974-004	131609	Soil	12-NOV-2007 13:25	5.0	89.29			847455802001	ND	0.089	mg/Kg		--	u
014	131609	MS	QC414915	198974-004	131609	Soil	12-NOV-2007 13:27	1.0	92.59		0.4630	847455802001	0.5120	0.020	mg/Kg	109		u
015	131609	MSD	QC414916	198974-004	131609	Soil	12-NOV-2007 13:30	1.0	80.65		0.4032	847455802001	0.4419	0.020	mg/Kg	108	1	u
016	131609	SAMPLE	198816-004		131609	Miscel	12-NOV-2007 13:33	1.0	78.13			847455802001	0.13	0.020	mg/Kg			sh b*
017	131609	SAMPLE	198816-008		131609	Miscel	12-NOV-2007 13:35	1.0	90.91			847455802001	0.34	0.020	mg/Kg			sh b*
018	131609	SAMPLE	198816-012		131609	Miscel	12-NOV-2007 13:38	1.0	76.92			847455802001	0.26	0.020	mg/Kg			sh b*
019	131609	CCV					12-NOV-2007 14:07	1.0	1.0	3	7.500	847455802001	6.610		ug/L	88		
020	131609	CCB					12-NOV-2007 14:10	1.0	1.0			847455802001	ND	0.20	ug/L			
021	131609	SAMPLE	198903-007		131609	Soil	12-NOV-2007 14:12	1.0	81.97			847455802001	0.53	0.020	mg/Kg			u
022	131609	SAMPLE	198974-001		131609	Soil	12-NOV-2007 14:15	1.0	94.34			847455802001	0.063	0.020	mg/Kg			u
023	131609	SAMPLE	198974-002		131609	Soil	12-NOV-2007 14:18	1.0	90.91			847455802001	0.017 J	0.020	mg/Kg			u
024	131609	SAMPLE	198974-003		131609	Soil	12-NOV-2007 14:21	1.0	100.0			847455802001	0.031	0.020	mg/Kg			u
025	131609	SAMPLE	198975-001		131609	Soil	12-NOV-2007 14:23	1.0	87.72			847455802001	0.055	0.020	mg/Kg			u
026	131609	SAMPLE	198975-002		131609	Soil	12-NOV-2007 14:25	1.0	94.34			847455802001	0.042	0.020	mg/Kg			u
027	131609	SAMPLE	198975-003		131609	Soil	12-NOV-2007 14:28	1.0	92.59			847455802001	0.074	0.020	mg/Kg			u
028	131609	SAMPLE	199006-001		131609	Soil	12-NOV-2007 14:30	1.0	96.15			847455802001	ND	0.020	mg/Kg			u
029	131609	SAMPLE	199030-017		131609	Soil	12-NOV-2007 14:33	1.0	102.0			847455802001	0.67	0.020	mg/Kg			u
030	131609	SAMPLE	199030-018		131609	Soil	12-NOV-2007 14:36	1.0	90.91			847455802001	0.078	0.020	mg/Kg			u
031	131609	CCV					12-NOV-2007 14:38	1.0	1.0	4	5.000	847455802001	4.850		ug/L	97		
032	131609	CCB					12-NOV-2007 14:41	1.0	1.0			847455802001	ND	0.20	ug/L			
033	131609	SAMPLE	199032-001		131609	Miscel	12-NOV-2007 14:44	1.0	75.76			847455802001	0.14	0.020	mg/Kg			u
034	131609	SAMPLE	199060-004		131609	Soil	12-NOV-2007 14:47	1.0	72.46			847455802001	54 >LR	0.020	mg/Kg			>LR cal
035	131609	SAMPLE	199060-005		131609	Soil	12-NOV-2007 14:55	1.0	83.33			847455802001	0.14	0.020	mg/Kg			u
036	131609	SAMPLE	199110-001		131609	Soil	12-NOV-2007 14:57	1.0	89.29			847455802001	0.45	0.020	mg/Kg			u
037	131609	SAMPLE	199140-009		131609	Soil	12-NOV-2007 15:00	1.0	92.59			847455802001	0.21	0.020	mg/Kg			u
038	131609	SAMPLE	199140-010		131609	Soil	12-NOV-2007 15:02	1.0	87.72			847455802001	0.14	0.020	mg/Kg			u
039	131609	SAMPLE	199060-004		131609	Soil	12-NOV-2007 15:12	200.0	72.46			847455802001	79	2.9	mg/Kg			u
040	131609	CCV					12-NOV-2007 15:14	1.0	1.0	3	7.500	847455802001	7.860		ug/L	105		
041	131609	CCB					12-NOV-2007 15:17	1.0	1.0			847455802001	ND	0.20	ug/L			

Stds used: 1=S7675 2=S7677 3=S7680 4=S7679
Flags used: >LR=overrange b=noncompliant calc=check quantitation sh=out of sample hold u=use

Analyst: _____ Date: 11/27/07

Curtis & Tompkins Laboratories Sample Preparation Summary 12-NOV-2007 12:04

Batch Number : 131609
Date Extracted: 12-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7675
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198816-004			AEW Engineering, Inc.	Miscell.	.64	g	50	78.125000	1				T26/HG		
198816-008			AEW Engineering, Inc.	Miscell.	.55	g	50	90.909091	1				T26/HG		
198816-012			AEW Engineering, Inc.	Miscell.	.65	g	50	76.923077	1				T26/HG		
198903-007			Mactec, Inc.	Soil	.61	g	50	81.967213	1				T26/HG		
198974-001			Mactec, Inc.	Soil	.53	g	50	94.339623	1				T26/HG		
198974-002			Mactec, Inc.	Soil	.55	g	50	90.909091	1				T26/HG		
198974-003			Mactec, Inc.	Soil	.5	g	50	100.000000	1				T26/HG		
198974-004			Mactec, Inc.	Soil	.56	g	50	89.285714	1				T26/HG		MSS
198975-001			Mactec, Inc.	Soil	.57	g	50	87.719298	1				T26/HG		
198975-002			Mactec, Inc.	Soil	.53	g	50	94.339623	1				T26/HG		
198975-003			Mactec, Inc.	Soil	.54	g	50	92.592593	1				T26/HG		
199006-001			CH2M Hill	Soil	.52	g	50	96.153846	1				TAL/HG		
199030-017			Northgate Environmental Manage	Soil	.49	g	50	102.040816	1				T26/HG		
199030-018			Northgate Environmental Manage	Soil	.55	g	50	90.909091	1				T26/HG		
199032-001			ConocoPhillips Company	Miscell.	.66	g	50	75.757576	1				T26/HG		
199060-004			Northgate Environmental Manage	Soil	.69	g	50	72.463768	1				T26/HG		
199060-005			Northgate Environmental Manage	Soil	.6	g	50	83.333333	1				T26/HG		
199110-001			ConocoPhillips Company	Soil	.56	g	50	89.285714	1				T26/HG		
199140-009			Geomatrix Consultants	Soil	.54	g	50	92.592593	1				T26/HG		
199140-010			Geomatrix Consultants	Soil	.57	g	50	87.719298	1				T26/HG		
QC414911	BLANK			Soil	.5	g	50	100.000000	1				HG		
QC414912	BS			Soil	.5	g	50	100.000000	1	2.5			HG		
QC414913	BSD			Soil	.5	g	50	100.000000	1	2.5			HG		
QC414914	SER	of 198974-004		Soil	.56	g	50	89.285714	1				HG		
QC414915	MS	of 198974-004		Soil	.54	g	50	92.592593	1	2.5			HG		
QC414916	MSD	of 198974-004		Soil	.62	g	50	80.645161	1	2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/12/07

Relinquished By: _____ Received By: _____ Date: 11/12/07

8-1-09

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 131609
Date Digested: 11/12/07
Digested by: SXM

Digestion Method
☒ EPA 7471A
☐ _____

BK 2605
Page 20

	Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	198816-004	0.64	50.0	Y	comp 1-3 @ 50g each
	08	0.55			5-7
	12	0.65			9-11
	198903-007 G	0.61			
5	199032-001 A	0.66			
	199060-004	0.69			
	05	0.60			
	198974-001	0.53			
	02	0.55			
10	03	0.50			
	04	0.56			MSS
	198975-001	0.57			
	02	0.53			
	03	0.54			
15	199006-001	0.52			
	199030-017	0.49			
	18	0.55			
	199110-001	0.56			
	199140-009	0.54			comp by ECB
20	10	0.57			
	MB QC 114911	0.50			
	BS 12				
	BSD 13				
	MS 15	0.54			
	MSD 16	0.62			

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	S7675	SXM 11/12/07
ICAL Source WS#	↓	
ICV / CCV WS#	S7677/761A/80	
Digestion of Samples & Standards: Time ON / Temperature ON	11:45/95°C	
Time OFF/ Temperature OFF	12:15/95°C	
Aqua Regia Acids (HNO3+ HCl)	AR 111207	
5% $KMnO_4$	K 110907	
NaCl.hydroxylamine hydrochloride	Hy 110907	
Stannous Chloride	$SnCl_2$ 110507	
☑ filtered thru' 0.45 um syringe filter	RTC N29862	↓

11/12/07
Prep Chemist / Date

Continued from page _____
Continued on page _____

11/12/07
Reviewed by / Date

Curtis & Tompkins,

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/01/07
Units:	%	Received:	11/01/07

Field ID	Lab ID	Result	RL	Batch#	Analyzed
1065EX359[4.0]	198903-001	16	1	131289	11/03/07
1065EX360[4.0]	198903-002	16	1	131289	11/03/07
DUP110107	198903-003	15	1	131289	11/03/07
1065EX361[4.5]	198903-006	19	1	131289	11/03/07
1065EX362[5.5]	198903-007	16	1	131641	11/13/07

RL= Reporting Limit

Batch QC Report

Moisture

Lab #:	198903	Location:	Bldg 1065 Presidio-Excavation 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Type:	SDUP	Diln Fac:	1.000
Matrix:	Soil		

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim	Batch#	Sampled	Received	Analyzed
ZZZZZZZZZZ	198718-012	QC413611	10.69	11.22	1.000	5	15	131289	10/24/07	10/25/07	11/03/07
1065EX362[5.5]	198903-007	QC415046	16.17	24.70	1.000	42 *	15	131641	11/01/07	11/01/07	11/13/07

*= Value outside of QC limits; see narrative
RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

0552

Percent Moisture Summary Report

Batch: 131289
Date: 11/03/07
Method: CLP SOW 390
Analyst: HO

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
198718-001	11.3019	17.3828	16.3145	82	18
198718-002	11.0617	16.9994	15.9326	82	18
198718-003	11.3153	18.0430	17.7777	96	4
198718-004	11.3799	17.6944	17.1719	92	8
198718-005	11.3739	17.7914	17.2887	92	8
198718-006	11.3582	16.8302	16.4345	93	7
198718-007	11.3009	17.3879	16.6827	88	12
198718-008	11.3862	19.5183	17.8712	80	20
198718-009	11.0714	17.8016	16.9600	87	13
198718-010	11.4016	19.5046	17.8195	79	21
198718-011	11.2432	18.9897	17.6922	83	17
198718-012	11.0376	17.8511	17.1229	89	11
198900-001	11.2903	17.1560	16.1695	83	17
198900-002	11.0729	17.8031	16.6023	82	18
198900-003	10.8617	18.4410	17.0962	82	18
198900-004	11.2737	20.2206	18.6258	82	18
198903-001	11.5088	18.7926	17.6450	84	16
198903-002	11.4428	21.3701	19.8072	84	16
198903-003	11.2307	19.0829	17.9328	85	15
198903-006	11.0745	19.3186	17.7867	81	19
QC413611	11.3812	17.3760	16.7034	89	11
of 198718-012			RPD:	0.6%	4.9%

11-3-07

BT# B12789

SAMPLE		SL	DISH	DISH WT	SAMPLE WT	FINAL WT	COMMENTS
BLK		–	FH	11.2569	Ø	11.2568	
198718	-001	D	A06	11.3019	17.3828	16.3145	
	002	B	E8	11.0617	16.9994	15.9326	
	003	D	K08	11.3153	18.0430	17.7777	
	004	↓	EC1	11.3799	17.6944	17.1719	
	005	↓	CT18	11.3739	17.7914	17.2887	
	006	B	A07	11.3582	16.8302	16.4345	
	007	B	E10	11.3009	17.3879	16.6827	
	008		C21	11.3862	19.5183	17.8712	
	009		B191	11.0714	17.8016	16.9600	
	010		A09	11.4016	19.5046	17.8195	
	011		CT30	11.2432	18.9897	17.6922	
	012		B104	11.0376	17.8511	17.1229	
SDUP	012	↓	CT12	11.3812	17.3760	16.7084	
198900	-001	A	CT28	11.2403	17.1560	16.1695	
↓	002	↓	B107	11.0729	17.8031	16.6023	
	003		B108	10.8617	18.4410	17.0962	
↓	004	↓	D31	11.2737	20.2206	18.6258	
198903	-001	M	DEN	11.5088	18.7926	17.6450	
↓	002	G	B14	11.4428	21.3701	19.8072	
	003	G	CT9	11.2307	19.0829	17.9328	
↓	006	↓	BCH	11.0745	19.3186	17.7867	

TIME IN 3pm
OUT 8:30am
OVEN TEMP 105°

Continued on Page

Read and Understood By

Signed 11/03/07 Signed

Date Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131289
Date Started: 03-NOV-2007
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
198718-001		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-002		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-003		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-004		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-005		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-006		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-007		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-008		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-009		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-010		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-011		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198718-012		Shaw E&I	Soil	MOISTURE	06-NOV-2007
198900-001		URS Corporation	Soil	MOISTURE	06-NOV-2007
198900-002		URS Corporation	Soil	MOISTURE	06-NOV-2007
198900-003		URS Corporation	Soil	MOISTURE	06-NOV-2007
198900-004		URS Corporation	Soil	MOISTURE	06-NOV-2007
198903-001		Mactec, Inc.	Soil	MOISTURE	07-NOV-2007
198903-002		Mactec, Inc.	Soil	MOISTURE	07-NOV-2007
198903-003		Mactec, Inc.	Soil	MOISTURE	07-NOV-2007
198903-006		Mactec, Inc.	Soil	MOISTURE	07-NOV-2007
QC413611	SDUP of 198718-012		Soil	MOISTURE	

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	HO	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	103°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	HO	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HO	105°C
10-7-07	HO	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HO	104°C
10-14-07	HO	104°C
10-16-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HO	105°C
10-21-07	HO	105°C
10-22-07	VV	103°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	HO	105°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	MDV	103°C
11-1-07	VV	103°C
11-2-07	VV	104°C
11-3-07	HO	105°C
11-4-07	HO	105°C

Date	Initials	Temp (*C)

84
PROJECT METTLER AE-2000

Notebook No. BK752

Continued From Page 0

DATE	0.2000	1.0000	10.0000	50.0000	INTIAL	Weight SET
10-19-07	0.2000	1.0000	10,0000	50.0000	VV	35298
10-20-07	0.2000	1.0000	10.0000	50.0000	TO	35298
10-21-07	0.2000	1.0000	10.0000	50.0000	HO	35298
10-22-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-23-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-24-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-25-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-27-07	0.2000	1.0000	10.0000	50.0000	HO	35298
10-29-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-30-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-31-07	0.2000	1.0000	10.0000	50.0000	MW	35298
11-1-07	0.2000	1.0000	10.000	50.0000	VV	35298
11-2-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-3-07	0.2000	1.0000	10.0000	49.9999	HO	35298
11-4-07	0.2000	1.0000	10.0000	50.0000	HO	35298

Continued on Page

Read and Understood By

Signed Date Signed Date

Percent Moisture Summary Report

Batch: 131641
Date: 11/13/07
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
198903-007	11.2952	18.9059	17.6752	84	16
QC415046 of 198903-007	11.3338	18.8002	16.9557	75	25
			RPD:	10.7%	41.8%

11-12-07

PK 13164

Sample	SL	DISh	Dishwt.	Samplewt.	Finalwt.	Comments
~~BLK~~	QC	D35	11.3751	∅	11.3747	
198103-~~007~~	~~CT~~ CA	CT22	11.2952	18.9059	17.6752	
SDUP ↓ -007	CA	CT27	11.3333	18.8502	16.9557	

Time IN: 6PM
OUT: 9 AM
oven temp: 104°C

11-12-07

11/15/07

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131641
Date Started: 13-NOV-2007
Batched by : Victor Vergara

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
198903-007			Mactec, Inc.	Soil	MOISTURE	13-NOV-2007
QC415046	SDUP	of 198903-007		Soil	MOISTURE	

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	HO	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	103°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	HO	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HO	105°C
10-7-07	HO	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HO	104°C
10-14-07	HO	104°C
10-16-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HO	105°C
10-21-07	HO	105°C
10-22-07	VV	103°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	HO	105°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	MO	103°C
11-1-07	VV	103°C
11-2-07	VV	104°C
11-3-07	HO	105°C
11-4-07	HO	105°C

Date	Initials	Temp (*C)
11-5-07	VV	103°C
11-6-07	VV	104°C
11-07-07	VV	103°C
11-8-07	VV	105°C
11-9-07	VV	105°C
11-10-07	HO	105°C
11-11-07	HO	105°C
11-12-07	VV	105°C
11-13-07	VV	104°C

METTLER AE-200

Notebook No. BK752

Continued From Page ... Ø

DATE	0.2000	1.0000	10.0000	50.0000	INTIAL	Weight SET
10-19-07	0.2000	1.0000	10,0000	50.0000	VV	35298
10-20-07	0.2000	1.0000	10.0000	50.0000	tc	35298
10-21-07	0.2000	1.0000	10.0000	50.0000	tc	35298
10-22-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-23-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-24-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-25-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-27-07	0.2000	1.0000	10.0000	50.0000	tc	35298
10-29-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-30-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-31-07	0.2000	1.0000	10.0000	50.0000	mc	35298
11-1-07	0.2000	1.0000	10.000	50.0000	VV	35298
11-2-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-3-07	0.2000	1.0000	10.0000	49.9999	tc	35298
11-4-07	0.2000	1.0000	10.0000	50.0000	tc	35298
11-5-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-6-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-7-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-8-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-9-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-10-07	0.2000	1.0000	10.0000	50.0000	tc	35298
11-11-07	0.2000	1.0000	10.0000	50.0000	tc	35298
11-12-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-13-07	0.2000	1.0000	10.0000	50.0000	VV	35298

Continued on Page

Read and Understood By

Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 199042
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 Presidio Level : III

Sample ID	Lab ID
TB110607	199042-001
1065DE211	199042-002
1065EX363[8.0]	199042-003
1065EX364[6.0]	199042-004
1065EX365[6.5]	199042-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 11/19/2007
Project Manager

Signature: _____ Date: 11/27/2007
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**199042**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**11/07/07**
Samples Received:	**11/07/07**

This hardcopy data package contains sample and QC results for three soil samples, requested for the above referenced project on 11/07/07. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
5035 samples not analyzed within 48 hours were frozen. High surrogate recovery was observed for trifluorotoluene (FID) in the MSD of 1065EX363[8.0] (lab # 199042-003). High surrogate recoveries were observed for bromofluorobenzene (FID) in 1065EX365[6.5] (lab # 199042-005) and the MSD of 1065EX363[8.0] (lab # 199042-003). Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 131494; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
Diesel C12-C24 was detected between the MDL and the RL in the method blank for batch 131458; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
5035 samples not analyzed within 48 hours were frozen. Low responses were observed for many analytes in the CCV analyzed 11/08/07 10:12; these analytes met minimum response criteria. Acetone and methylene chloride were detected between the MDL and the RL in the method blank for batch 131459; these analytes were not detected in samples at or above the RL. Methylene chloride was detected between the MDL and the RL in 1065EX363[8.0] (lab # 199042-003), 1065EX364[6.0] (lab # 199042-004), and 1065EX365[6.5] (lab # 199042-005); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
High responses were observed for benzo(k)fluoranthene and dibenz(a,h)anthracene in the CCV analyzed 11/08/07 18:55. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for antimony in the MS/MSD of 1065EX363[8.0] (lab # 199042-003); the BS/BSD were within limits, and the associated RPD was within limits. High recovery was observed for copper in the MS of 1065EX363[8.0] (lab # 199042-003); the BS/BSD were within limits, and the

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**199042**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**11/07/07**
Samples Received:	**11/07/07**

Metals (EPA 6010B and EPA 7471A):
associated RPD was within limits. High recovery was observed for mercury in the MS of 1065EX363[8.0] (lab # 199042-003); the BS/BSD were within limits, and the associated RPD was within limits. High % difference was observed for antimony in the serial dilution of 1065EX363[8.0] (lab # 199042-003). Many analytes were detected between the MDL and the RL in the method blank for batch 131445; these analytes were either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3824

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

199042

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Presidio Building 1065-Ex 3
JOB NO.: 4084075115 02.4
SAMPLERS (SIGNATURE): Scott Bart
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 11/6/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) including 5 Oxygenates; TPHg (8015M); TPHd + TPHe w/ silica gel; PAHs (8270-sim); Title 22 Metals	FOR LAB USE ONLY
NA			W	TB110607	Trip blank	On Hold	3	X	no Put on Hold
840	X		W	1065DEZ11	Holding Tank		4	X	
	X		SO	1065EX363E			14	X X X X X X	
	X		SO	1065EX364E			7	X X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
Scott Bart	11/7/07 1500	Tom Pyle	11/07/07 1500			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: ~~Tripblank + Soil Samples on 48hr TAT & 72hr TAT~~, ~~1065DEZ11 on 24hr TAT, Tripblank on 5day TAT~~ &
Lvl 3 Data Validation Put all on hold

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

F1008 (05/00)

MACTEC

CHAIN OF CUSTODY RECORD

3825

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

199042

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Presidio Building 1065 - Ex 3
JOB NO.: 4084075115 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 11/7/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B)	BTEX (8021B)	TPHg (8015M)	TPHd + TPHmo w/ silica gel	PAHs (8270 - SIM)	Title 22 Metals	FOR LAB USE ONLY
850	X		SO	1065EX363[8.0]	8543E-8'	Sample + MS/MSD	14	X	X	X	X	X		
945	X		SO	1065EX364[6.0]	~~8543E-8'~~ 6565E-6'		7	X	X	X	X	X		
1315	X		SO	1065EX365[6.5]	7515E-6.5'		7	X	X	X	X	X		

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	11/7/07 1500		11/8/07 1500			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS
48 hr TAT
LVL 3 Data Validation
Run MS/MSD on 1065EX363

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 199042 Date Received: 11-7-07 Number of Coolers: 1
Client: Mactec Project: Bldg 1065 Presidio

A. Preliminary Examination Phase
Date Opened: 11-7-07 By (print): Faith Nichols (sign) Faith L

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: Ziploc Bags
9. If required, was sufficient ice used? Samples should be <=6 degrees C. ..... (YES) NO
Type of ice: Wet Temperature: No temp blank, All Cold
10. Were Encore sampling devices present in the cooler? ..... (YES) NO
If YES, enter time they were transferred to the freezer 1630

B. Login Phase
Date Logged In: 11-7-07 By (print): Faith Nichols (sign) Faith L

1. Did all bottles arrive unbroken? ..... (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
3. Did bottle labels agree with custody papers? ..... (YES) NO
4. Were appropriate containers used for the tests indicated? ..... (YES) NO
5. Were correct preservatives added to samples? ..... (YES) NO
6. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
8. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, give details below.
Who was called? _____ By whom? _____ Date: _____

Additional Comments:

TOTAL VOLATILE HYDROCARBONS

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/07/07
Units:	mg/Kg	Received:	11/07/07
Diln Fac:	1.000	Analyzed:	11/08/07
Batch#:	131494		

Field ID: 1065EX363[8.0] Basis: dry
Type: SAMPLE Moisture: 19%
Lab ID: 199042-003

Analyte	Result	RL	MDL
Gasoline C7-C12	0.79 Y	0.20	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	133	65-135
Bromofluorobenzene (FID)	122	65-135

Field ID: 1065EX364[6.0] Basis: dry
Type: SAMPLE Moisture: 17%
Lab ID: 199042-004

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.18	0.015

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	102	65-135

Field ID: 1065EX365[6.5] Basis: dry
Type: SAMPLE Moisture: 16%
Lab ID: 199042-005

Analyte	Result	RL	MDL
Gasoline C7-C12	1.4 Y	0.24	0.019

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	65-135
Bromofluorobenzene (FID)	153 *	65-135

Type: BLANK Basis: as received
Lab ID: QC414467

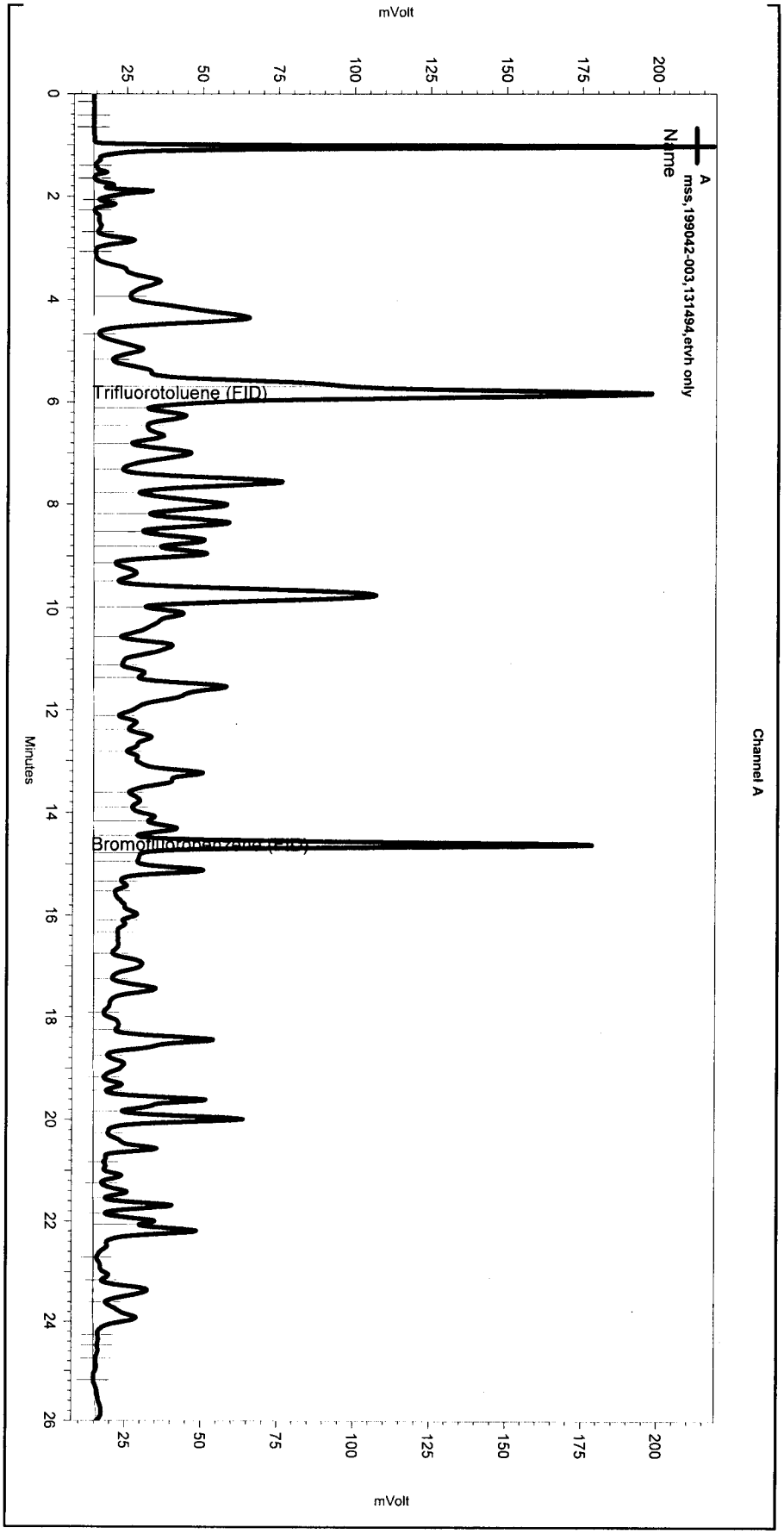
Analyte	Result	RL	MDL
Gasoline C7-C12	0.017 J	0.20	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	65-135
Bromofluorobenzene (FID)	96	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\312.seq**
Sample Name: **mss,199042-003,131494,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\312_011**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe302.met

Software Version 3.1.7
Run Date: 11/8/2007 10:32:59 PM
Analysis Date: 11/9/2007 8:12:20 AM
Sample Amount: 6.16 Multiplier: 6.16
Vial & pH or Core ID: f



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

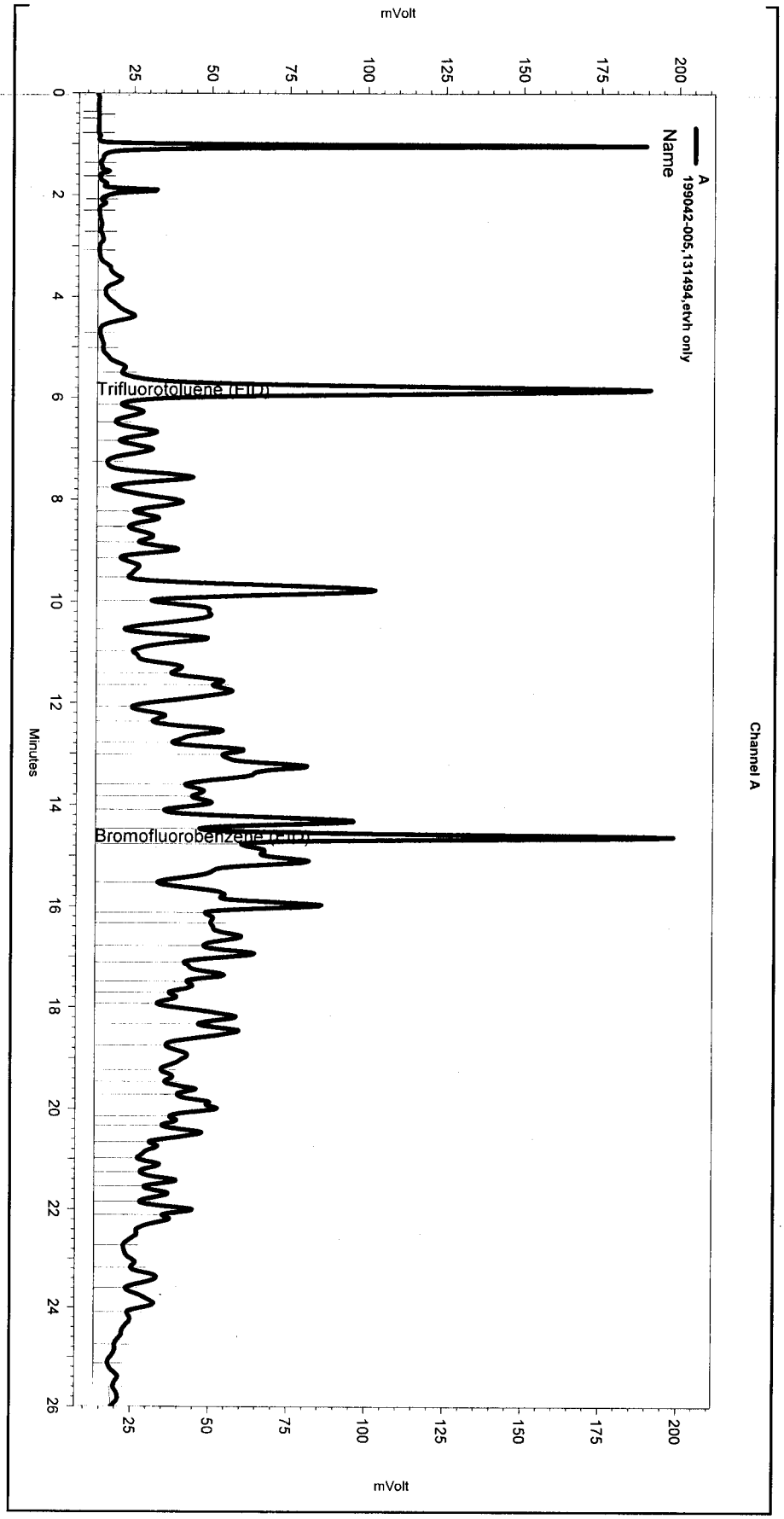
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\312_011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.698	0	0
Yes	Split Peak	14.784	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\312.seq**
Sample Name: **199042-005,131494,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\312_013**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe302.met

Software Version 3.1.7
Run Date: 11/8/2007 11:48:18 PM
Analysis Date: 11/9/2007 10:16:41 AM
Sample Amount: 4.99 Multiplier: 4.99
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

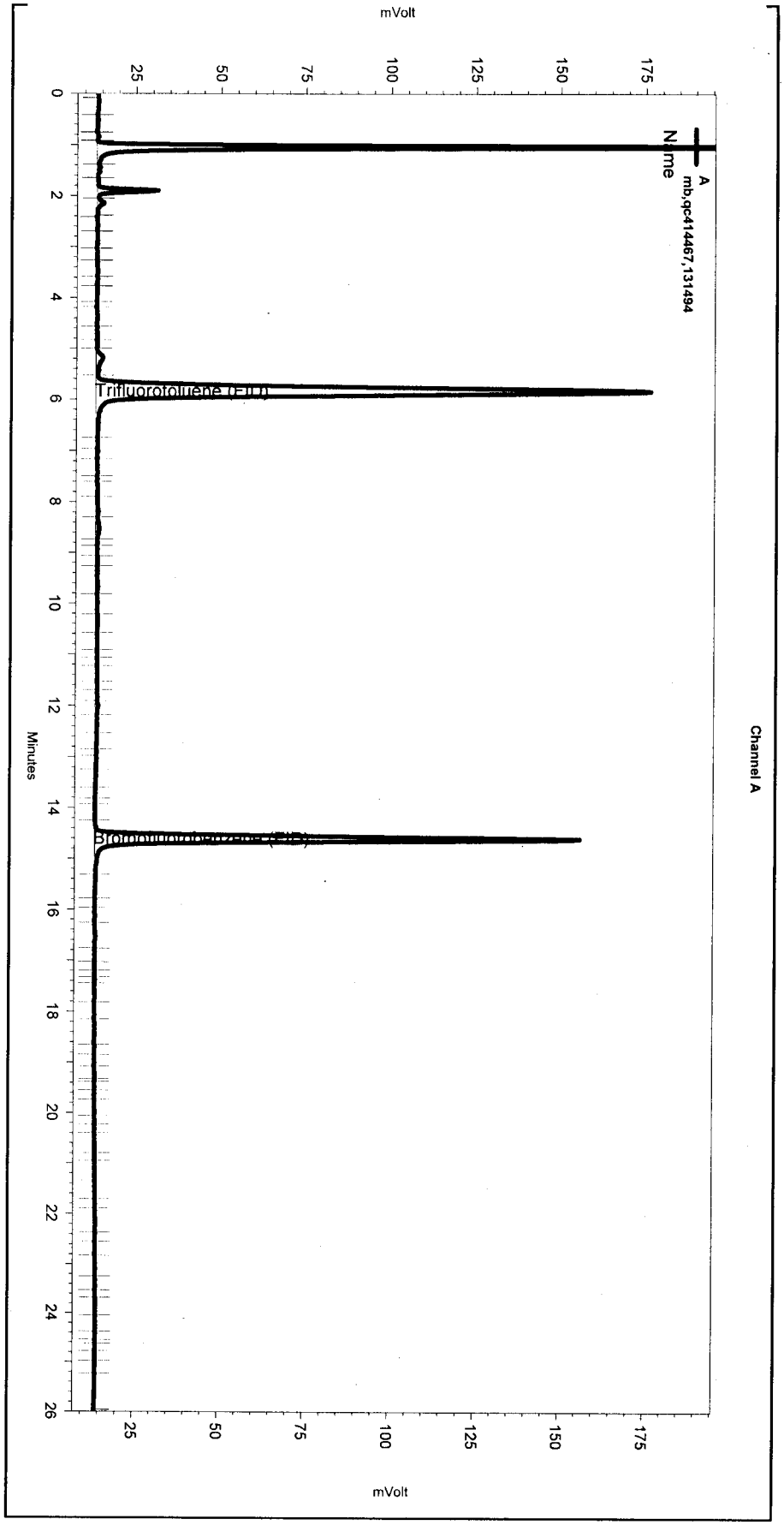
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\312_013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.515	25.644	0

: 00011

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\312.seq
Sample Name: **mb,qc414467,131494**
Data File: **Lims\gdrive\ezchrom\Projects\GC04\Data\312_009**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe302.met

Software Version 3.1.7
Run Date: 11/8/2007 9:17:46 PM
Analysis Date: 11/9/2007 8:03:33 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

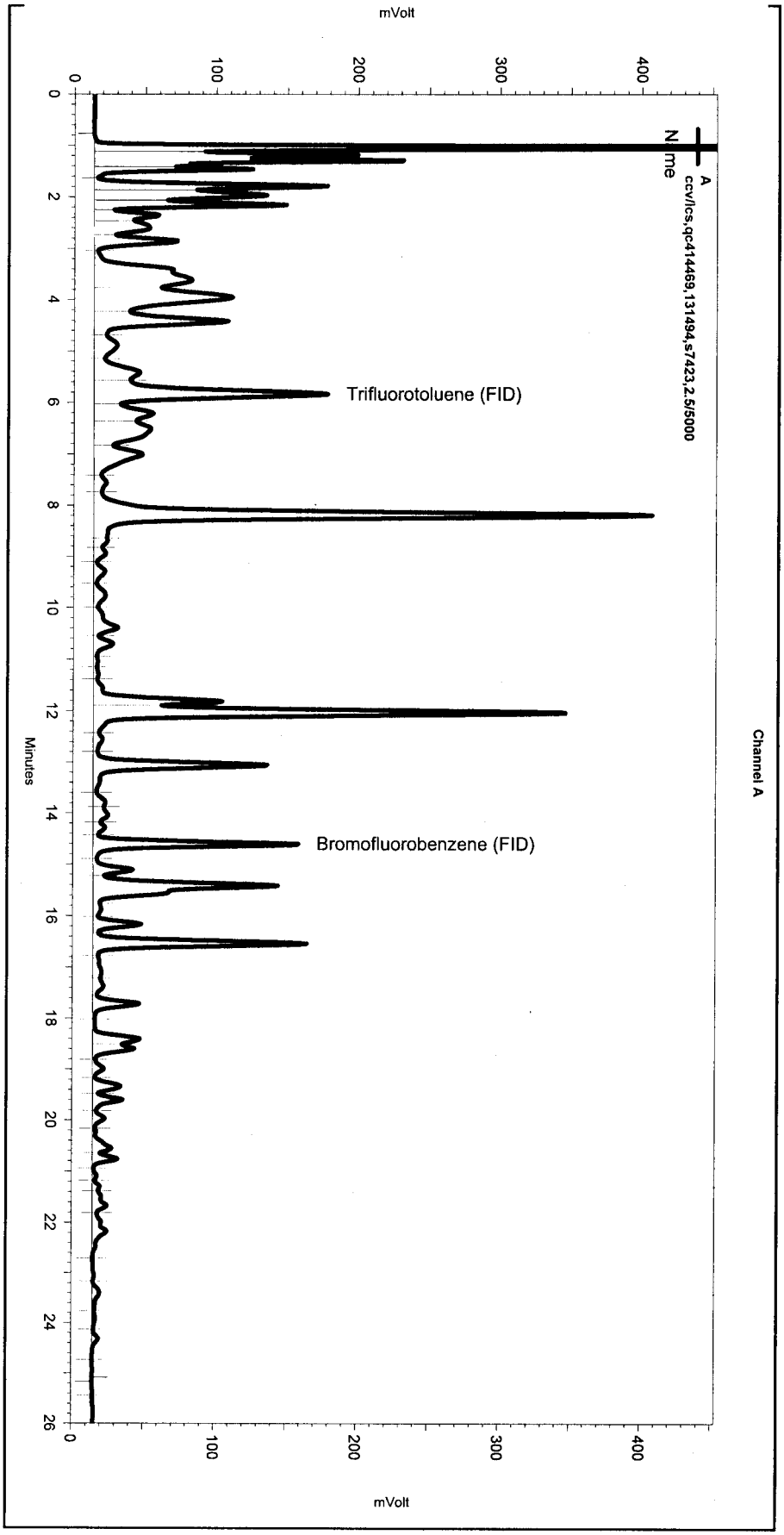
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\312_009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\312.seq**
Sample Name: **ccv/lcs,qc414469,131494,s7423,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\312_007**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe302.met

Software Version 3.1.7
Run Date: 11/8/2007 8:02:28 PM
Analysis Date: 11/9/2007 8:03:25 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\312_007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Level III for 199042 GCVOA Soil

Generated on 11/09/07 13:53.

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC414469	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131494
Units:	mg/Kg	Analyzed:	11/08/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.353	87	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	65-135
Bromofluorobenzene (FID)	100	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX363[8.0]	Diln Fac:	1.000
MSS Lab ID:	199042-003	Batch#:	131494
Matrix:	Soil	Sampled:	11/07/07
Units:	mg/Kg	Received:	11/07/07
Basis:	dry	Analyzed:	11/09/07

Type: MS
Lab ID: QC414470

Moisture: 19%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.7857	4.129	4.061	79	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	131	65-135
Bromofluorobenzene (FID)	117	65-135

Type: MSD
Lab ID: QC414471

Moisture: 19%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.504	3.522	109	75-125	26	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	147 *	65-135
Bromofluorobenzene (FID)	144 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCVOA Soil: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199042 GCVOA Soil
EPA 8015B

Inst : GC04 Name : GC04 TVH 166
Calnum : 307240439001 Cal Date : 16-JUN-2007

ICV 307240439025 (166_025 16-JUN-2007) stds: S6393 (1000X), S6435 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	4397.8	4535.9	10000	10310	ng	3	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 307435352001
Units : ng

Name : GC04 MBTXE/SURR 302
Date : 29-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	302_009	307435352009	BTXE_1	29-OCT-2007 19:38	S7260 (1000X), S7356 (5000X)
L2	302_010	307435352010	MBTXE_2	29-OCT-2007 20:15	S7258 (1250X), S7356 (5000X)
L3	302_011	307435352011	MBTXE_3	29-OCT-2007 20:53	S7258 (500X), S7356 (5000X)
L4	302_012	307435352012	MBTXE_4	29-OCT-2007 21:31	S7258 (125X), S7356 (5000X)
L5	302_013	307435352013	MBTXE_5	29-OCT-2007 22:08	S7257 (1000X), S7356 (5000X)
L6	302_014	307435352014	MBTXE_6	29-OCT-2007 22:46	S7257 (500X), S7356 (5000X)
L7	302_015	307435352015	MBTXE_7	29-OCT-2007 23:24	S7257 (250X), S7356 (5000X)
L8	302_016	307435352016	MTBE_7	30-OCT-2007 00:01	S6302 (500X), S7356 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3913.7	4177.7	3904.1	3661.5	3896.1	3977.3	3937.1	3852.6	AVRG		2.55E-4		3915.0	4	0.995	20	
Bromofluorobenzene (FID)	A	2412.2	2540.8	2428.9	2291.4	2510.4	2558.1	2584.1	2348.4	AVRG		4.07E-4		2459.3	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	7	450.0	0	450.0	-6	450.0	0	450.0	2	450.0	1	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-2	450.0	3	450.0	-1	450.0	-7	450.0	2	450.0	4	450.0	5	450.0	-5

MJM 10/30/07 : ICV: MTBE Failed low Ch. C. Report analyte from Ch. B. Ch. C to be used as confirm only.

Analyst: MJM Date: 10/30/07 Reviewer: LH Date: 10/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

307435352001

CURTIS & TOMPKINS SPIKE USER REPORT FOR 199042 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : QC414468 IDF : 1.0
Seqnum : 307450224004.1 File : 312_004 Time : 08-NOV-2007 18:09
Cal : 307435352001 Caldate : 29-OCT-2007
Standards: S7564 (2000X), S7356 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	3915.0	3519.8	450.0	404.6	ng	-10	15	
Bromofluorobenzene (FID)	A	2459.3	2137.9	450.0	391.2	ng	-13	15	

PDM 11/09/07 : all PID surrogates pass control limits [general version]

Analyst: PDM Date: 11/09/07 Reviewer: LH Date: 11/09/07

307450224004.1

CURTIS & TOMPKINS SPIKE USER REPORT FOR 199042 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : QC414469 IDF : 1.0
Seqnum : 307450224007.1 File : 312_007 Time : 08-NOV-2007 20:02
Standards: S7423 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3829.0	5000	4353	ng	-13	15	u
Trifluorotoluene (FID)	A	307435352001	29-OCT-2007	3915.0	4535.4	450.0	521.3	ng	**16**	15	c+ u
Bromofluorobenzene (FID)	A	307435352001	29-OCT-2007	2459.3	2456.4	450.0	449.5	ng	0	15	u

PDM 11/09/07 [Trifluorotoluene (FID) A]: Passes control limits. [general version]

Analyst: PDM Date: 11/09/07 Reviewer: LH Date: 11/09/07

+=high bias c=CCV u=use

307450224007.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : BTXE IDF : 1.0
Seqnum : 307450224017 File : 312_017 Time : 09-NOV-2007 02:18
Cal : 307435352001 Caldate : 29-OCT-2007
Standards: S7564 (666.7X), S7356 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	3915.0	3983.1	450.0	457.8	ng	2	15	
Bromofluorobenzene (FID)	A	2459.3	2540.5	450.0	464.9	ng	3	15	

PDM 11/09/07 : MTBE N/A for batch

Analyst: PDM Date: 11/09/07 Reviewer: LH Date: 11/09/07

307450224017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 307450224018 File : 312_018 Time : 09-NOV-2007 02:56
Standards: S7423 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4060.3	15000	13850	ng	-8	15	
Trifluorotoluene (FID)	A	307435352001	29-OCT-2007	3915.0	6364.9	450.0	731.6	ng	**63**	15	c+
Bromofluorobenzene (FID)	A	307435352001	29-OCT-2007	2459.3	2872.1	450.0	525.5	ng	**17**	15	c+

PDM 11/09/07 : PID surrogates are not applicable.

PDM 11/09/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

PDM 11/09/07 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: PDM Date: 11/09/07 Reviewer: LH Date: 11/09/07

+=high bias c=CCV

307450224018

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 307450224032 File : 312_032 Time : 09-NOV-2007 11:43
Standards: S7663 (1000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4133.8	10000	9400	ng	-6	15	
Trifluorotoluene (FID)	A	307435352001	29-OCT-2007	3915.0	5656.8	450.0	650.2	ng	**44**	15	c+
Bromofluorobenzene (FID)	A	307435352001	29-OCT-2007	2459.3	2692.3	450.0	492.6	ng	9	15	

PDM 11/09/07 : PID surrogates are not applicable.

PDM 11/09/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

Analyst: PDM Date: 11/09/07 Reviewer: LH Date: 11/09/07

+=high bias c=CCV

307450224032

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307240439

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 06/15/07 10:59
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	166_001	X	CMARK			06/15/07 10:59	1.0	1 2
002	166_002	CCV	TVH			06/15/07 11:37	1.0	3 2
003	166_003	X	CCV			06/15/07 12:15	1.0	4 2
004	166_004	X	IB			06/15/07 13:08	1.0	2
005	166_005	IB	CALIB			06/15/07 15:44	1.0	2
006	166_006	ICAL	BTXE_1			06/15/07 16:22	1.0	5 2
007	166_007	ICAL	BTXE_2			06/15/07 17:00	1.0	6 2
008	166_008	ICAL	BTXE_3			06/15/07 17:38	1.0	6 2
009	166_009	X	ICAL			06/15/07 18:16	1.0	6 2
010	166_010	ICAL	BTXE_5			06/15/07 18:54	1.0	7 2
011	166_011	ICAL	BTXE_6			06/15/07 19:31	1.0	7 2
012	166_012	ICAL	BTXE_7			06/15/07 20:09	1.0	7 2
013	166_013	ICAL	MTBE_7			06/15/07 20:47	1.0	8 2
014	166_014	X	IB			06/15/07 21:25	1.0	2
015	166_015	X	ICV			06/15/07 22:03	1.0	9 2
016	166_016	X	ICV			06/15/07 22:41	1.0	9 2
017	166_017	X	IB			06/15/07 23:19	1.0	2
018	166_018	IB	CALIB			06/15/07 23:57	1.0	2
019	166_019	ICAL	TVH 1			06/16/07 00:35	1.0	10 2
020	166_020	ICAL	TVH 2			06/16/07 01:13	1.0	11 2
021	166_021	ICAL	TVH 3			06/16/07 01:51	1.0	12 2
022	166_022	ICAL	TVH 4			06/16/07 02:29	1.0	13 2
023	166_023	ICAL	TVH 5			06/16/07 03:07	1.0	13 2
024	166_024	X	IB			06/16/07 03:45	1.0	2
025	166_025	ICV	TVH			06/16/07 04:23	1.0	3 2
026	166_026	ICV	TVH			06/16/07 05:01	1.0	3 2
027	166_027	X	IB			06/16/07 05:39	1.0	2
028	166_028	CMARKER				06/16/07 06:17	1.0	1 2
030	166_030	ICAL	BTXE_4			06/18/07 11:26	1.0	6 2
031	166_031	X	IB			06/18/07 12:04	1.0	2
032	166_032	ICV	MBTXE			06/18/07 12:42	1.0	9 2
033	166_033	IB	CALIB			06/18/07 13:30	1.0	2
034	166_034	ICAL	TFT/BFB_1			06/18/07 14:14	1.0	14
035	166_035	ICAL	TFT/BFB_2			06/18/07 14:54	1.0	15
036	166_036	ICAL	TFT/BFB_3			06/18/07 15:48	1.0	16
037	166_037	ICAL	TFT/BFB_4			06/18/07 16:37	1.0	17
038	166_038	ICAL	TFT/BFB_5			06/18/07 17:20	1.0	18

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Standards used: 1=S6383 2=S6435 3=S6393 4=S5943 5=S6305 6=S6304 7=S6303 8=S6302 9=S6204 10=S5937 11=S5936 12=S5935 13=S5934 14=S5951 15=S5952 16=S5953 17=S5954 18=S5955

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307435352

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 10/29/07 07:52
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	302_001	X	IB			10/29/07 07:52	1.0	1
002	302_002	X	CMARK			10/29/07 08:30	1.0	2 1
003	302_003	X	CCV			10/29/07 09:07	1.0	3 1
004	302_004	X	CCV			10/29/07 09:45	1.0	4 1
005	302_005	X	CCV			10/29/07 10:42	1.0	4 1
006	302_006	X	IB			10/29/07 11:35	1.0	1
007	302_007	X	IB			10/29/07 18:22	1.0	1
008	302_008	IB	CALIB			10/29/07 19:00	1.0	1
009	302_009	ICAL	BTXE_1			10/29/07 19:38	1.0	5 1
010	302_010	ICAL	MBTXE_2			10/29/07 20:15	1.0	6 1
011	302_011	ICAL	MBTXE_3			10/29/07 20:53	1.0	6 1
012	302_012	ICAL	MBTXE_4			10/29/07 21:31	1.0	6 1
013	302_013	ICAL	MBTXE_5			10/29/07 22:08	1.0	7 1
014	302_014	ICAL	MBTXE_6			10/29/07 22:46	1.0	7 1
015	302_015	ICAL	MBTXE_7			10/29/07 23:24	1.0	7 1
016	302_016	ICAL	MTBE_7			10/30/07 00:01	1.0	8 1
017	302_017	X	IB			10/30/07 00:39	1.0	1
018	302_018	ICV	MBTXE			10/30/07 01:17	1.0	9 1
019	302_019	X	ICV			10/30/07 01:54	1.0	9 1

Analyst: MJM Date: 10/30/07 Reviewer: LH Date: 10/30/07

Standards used: 1=S7356 2=S6725 3=S6970 4=S7423 5=S7260 6=S7258 7=S7257 8=S6302 9=S7263

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307450224

Instrument : GC04
Method : EPA 8015B, EPA 8021B
Begun : 11/08/07 15:44
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	312_001	X	CMARK			11/08/07 15:44	1.0	1 2
002	312_002	X	CCV			11/08/07 16:22	1.0	3 2
003	312_003	X	CCV			11/08/07 16:59	1.0	4 2
004	312_004	CCV/LCS	QC414468	Soil	131494	11/08/07 18:09	1.0	3 2
005	312_005	X	CCV			11/08/07 18:47	1.0	3 2
006	312_006	X	CCV			11/08/07 19:24	1.0	4 2
007	312_007	CCV/LCS	QC414469	Soil	131494	11/08/07 20:02	1.0	4 2
008	312_008	X	IB			11/08/07 20:40	1.0	2
009	312_009	BLANK	QC414467	Soil	131494	11/08/07 21:17	1.0	2
010	312_010	SAMPLE	199021-003	Soil	131494	11/08/07 21:55	1.0	2
011	312_011	MSS	199042-003	Soil	131494	11/08/07 22:32	1.0	2
012	312_012	SAMPLE	199042-004	Soil	131494	11/08/07 23:10	1.0	2
013	312_013	SAMPLE	199042-005	Soil	131494	11/08/07 23:48	1.0	2
014	312_014	SAMPLE	199006-001	Soil	131494	11/09/07 00:25	1.0	2
015	312_015	MS	QC414470	Soil	131494	11/09/07 01:03	1.0	4 2
016	312_016	MSD	QC414471	Soil	131494	11/09/07 01:41	1.0	4 2
017	312_017	CCV	BTXE			11/09/07 02:18	1.0	3 2
018	312_018	CCV	TVH			11/09/07 02:56	1.0	4 2
019	312_019	X	CCV			11/09/07 03:34	1.0	3 2
020	312_020	X	CCV			11/09/07 04:11	1.0	4 2
021	312_021	X	CMARK			11/09/07 04:49	1.0	1 2
022	312_022	SAMPLE	199068-001	Soil	131494	11/09/07 05:26	1.0	2
023	312_023	SAMPLE	199068-002	Soil	131494	11/09/07 06:04	1.0	2
024	312_024	SAMPLE	199068-003	Soil	131494	11/09/07 06:42	1.0	2
025	312_025	SAMPLE	199068-004	Soil	131494	11/09/07 07:19	1.0	2
026	312_026	SAMPLE	199068-005	Soil	131494	11/09/07 07:57	1.0	2
027	312_027	SAMPLE	199068-006	Soil	131494	11/09/07 08:35	1.0	2
028	312_028	SAMPLE	199068-007	Soil	131494	11/09/07 09:12	1.0	2
029	312_029	SAMPLE	199068-008	Soil	131494	11/09/07 09:50	1.0	2
030	312_030	MS	QC414470	Soil	131494	11/09/07 10:27	1.0	5 2
031	312_031	MSD	QC414471	Soil	131494	11/09/07 11:05	1.0	5 2
032	312_032	CCV	TVH			11/09/07 11:43	1.0	5 2
033	312_033	CCV	BTXE			11/09/07 12:20	1.0	3 2

Analyst: PDM Date: 11/09/07 Reviewer: _____ Date: _____

Standards used: 1=S7569 2=S7356 3=S7564 4=S7423 5=S7663

REPORTING SUMMARY FOR 199042 ETVH Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
199042-003	GC04	11/08/07 22:32	1.0	+	+	+	
199042-004	GC04	11/08/07 23:10	1.0	+	+	+	
199042-005	GC04	11/08/07 23:48	1.0	+	+	+	
QC414467	GC04	11/08/07 21:17	1.0	+	+	+	
QC414468	GC04	11/08/07 18:09	1.0				
QC414469	GC04	11/08/07 20:02	1.0	+	+	+	
QC414470	GC04	11/09/07 01:03	1.0				
QC414470	GC04	11/09/07 10:27	1.0	+	+	+	
QC414471	GC04	11/09/07 01:41	1.0				
QC414471	GC04	11/09/07 11:05	1.0	+	+	+	

Project TVH/BTXE SOIL PREP BK2583

Continued from Page —

SAMPLE ID/CORE ID/JAR	WEIGHT(g)	COMP(%)	NaHSO(%)	COMMENTS
195903-007 B	4.99	NO	NO	MJM 11/7/07
MS: 199025-006 A	1.00	↓	↓	↓
MSD: ↓ ↓ ↓	1.02	↓	↓	↓
199013-001 A	1.04	NO	NO	PDM 11/8/07
↓ -002 ↓	0.96	↓	↓	↓
199025-001 A	1.00	NO	NO	MJM 11/8/07 postdated for 11/7/07
MS: ↓ ↓ ↓	↓	↓	↓	↓
MSD: ↓	↓	↓	↓	↓
-002	1.02	↓	↓	↓
-003	1.01	↓	↓	↓
-004	1.00	↓	↓	↓
-005	1.05	↓	↓	↓
-006	0.97	↓	↓	↓
-007	1.02	↓	↓	↓
-008	1.03	↓	↓	↓
-009	0.99	↓	↓	↓
-010	1.02	↓	↓	↓
-011	0.98	↓	↓	↓
-012	0.98	↓	↓	↓
-013	1.05	↓	↓	↓
-014	0.99	↓	↓	↓
-015	0.97	↓	↓	↓
-018 A	1.00	↓	↓	↓
199008 -003 A	0.91	NO	NO	PDM 11/8/07 ; data for 2nd run
199030-017 A	0.98	NO	NO	MJM 11/8/07
↓ -018	1.02	↓	↓	↓
199039-001	1.04	↓	↓	↓
MS: ↓ ↓	1.02	↓	↓	↓
MSD: ↓	1.03	↓	↓	↓
-002	0.99	↓	↓	↓
-003	1.03	↓	↓	↓
-004	1.00	↓	↓	↓
-005	1.01	↓	↓	↓
199042-003 F	6.16	↓	↓	↓
-004 C	6.66	↓	↓	↓
-005 C	4.99	↓	↓	↓

Continued on Page

MM 11/7/07

Signed Date

Read and Understood By

Signed Date

Project TVH/BTXE SOIL PREP BK 2583

Continued from Page

SAMPLE ID/CORE ID/SAF	WEIGHT(G)	COMP(2)	Na2SO4(3)	COMMENTS
MOM 11/8/07 ~~MB~~ 199021-003A	0.97	NO	NO	MOM 11/8/07
MS 199042-003G	6.89			
MSD " H	4.16			
199006-001 A	1.03			
199068-001	1.02			
-002	1.01			
-003	1.02			
-004	1.03			
-005	0.98			
-006	0.98			
-007	1.02			
-008	0.98			
199068-001 A	1.02	NO	NO	BM 11/9/07
MS 199042-003J	2.99	NO		
MSD I	4.93			

Continued on Page

Signed 11/8/07 Read and Understood By

Signed Date Signed Date

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/07/07
Units:	mg/Kg	Received:	11/07/07
Diln Fac:	1.000	Prepared:	11/08/07
Batch#:	131458	Analyzed:	11/09/07

Field ID:	1065EX363[8.0]	Basis:	dry
Type:	SAMPLE	Moisture:	19%
Lab ID:	199042-003	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	0.44 J	1.2	0.20
Fuel Oil C24-C36	2.7 J	6.1	1.4

Surrogate	%REC	Limits
Hexacosane	81	65-135

Field ID:	1065EX364[6.0]	Basis:	dry
Type:	SAMPLE	Moisture:	17%
Lab ID:	199042-004	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.2	0.24
Fuel Oil C24-C36	ND	6.0	1.5

Surrogate	%REC	Limits
Hexacosane	73	65-135

Field ID:	1065EX365[6.5]	Basis:	dry
Type:	SAMPLE	Moisture:	16%
Lab ID:	199042-005	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	8.6 Y	1.2	0.24
Fuel Oil C24-C36	21	5.9	1.4

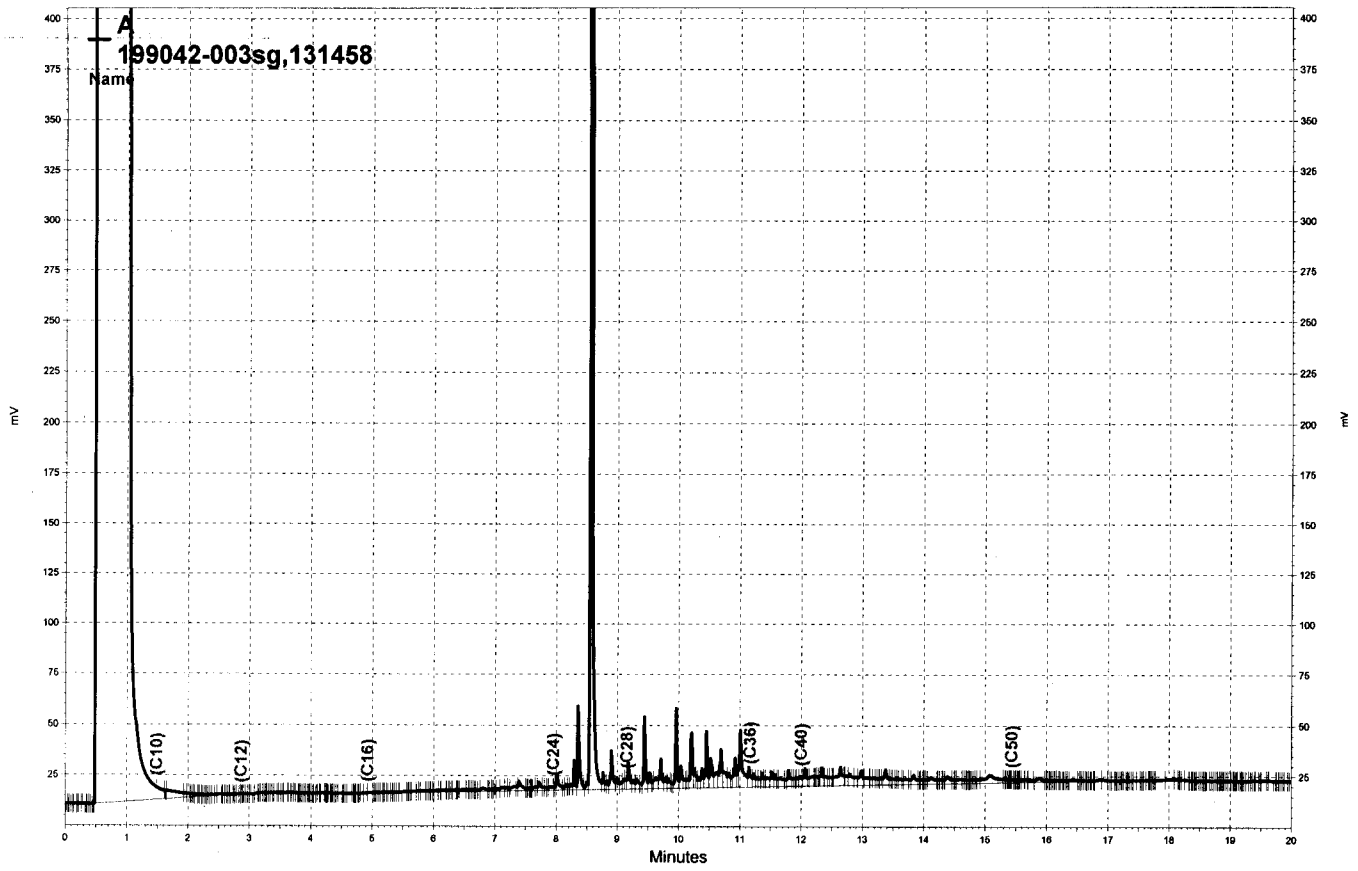
Surrogate	%REC	Limits
Hexacosane	71	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC414316	Cleanup Method:	EPA 3630C

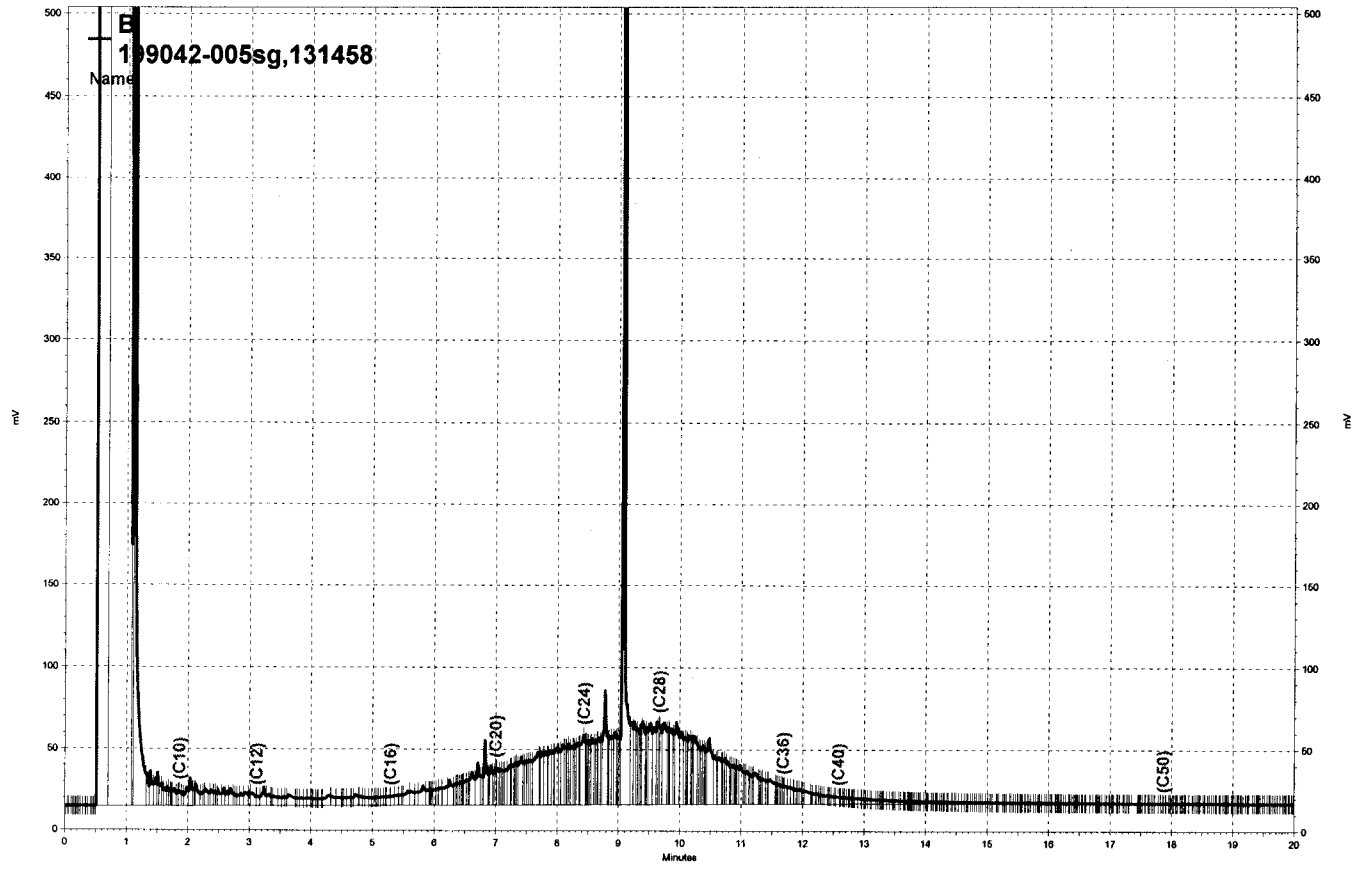
Analyte	Result	RL	MDL
Diesel C12-C24	0.24 J	1.0	0.16
Fuel Oil C24-C36	ND	5.0	1.1

Surrogate	%REC	Limits
Hexacosane	91	65-135

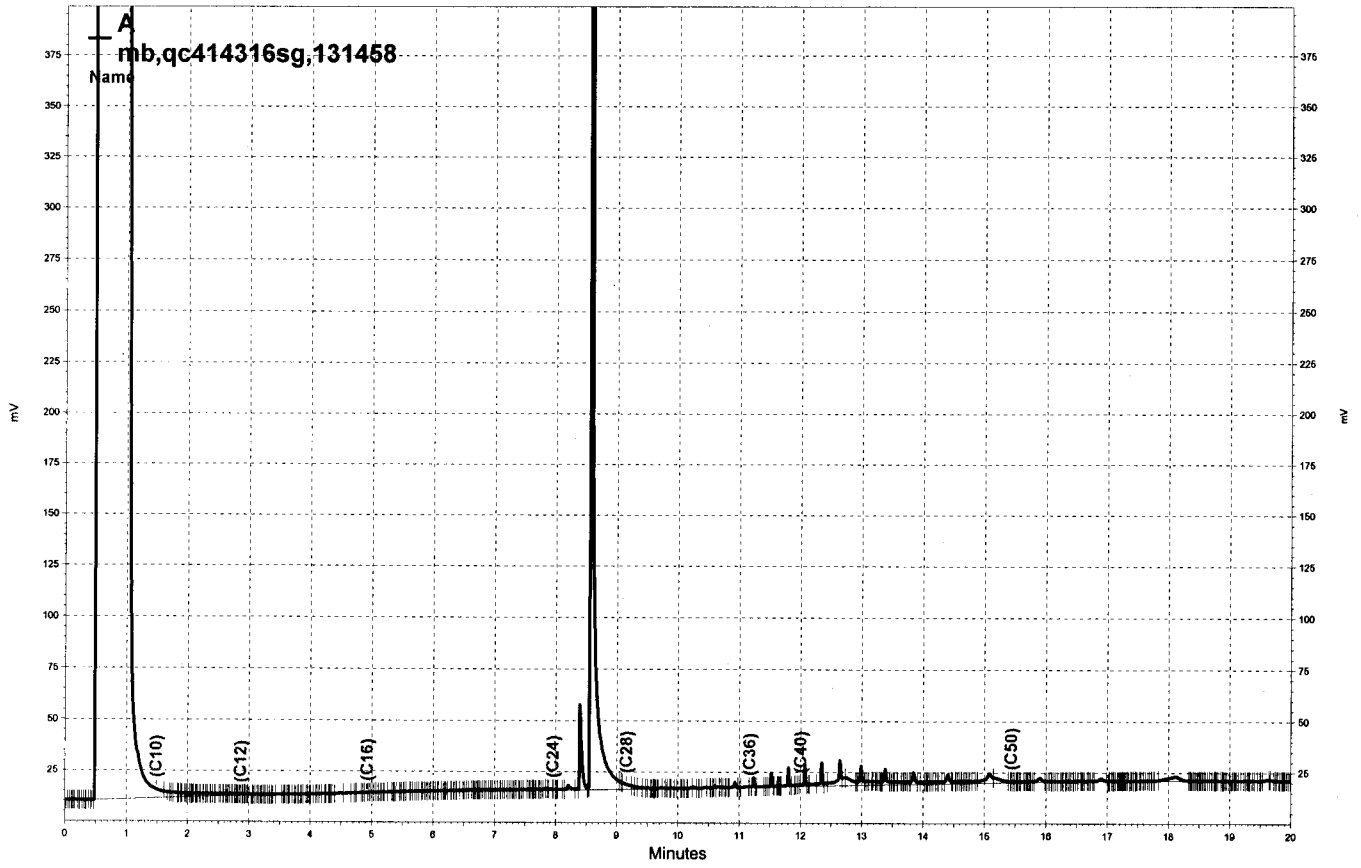
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



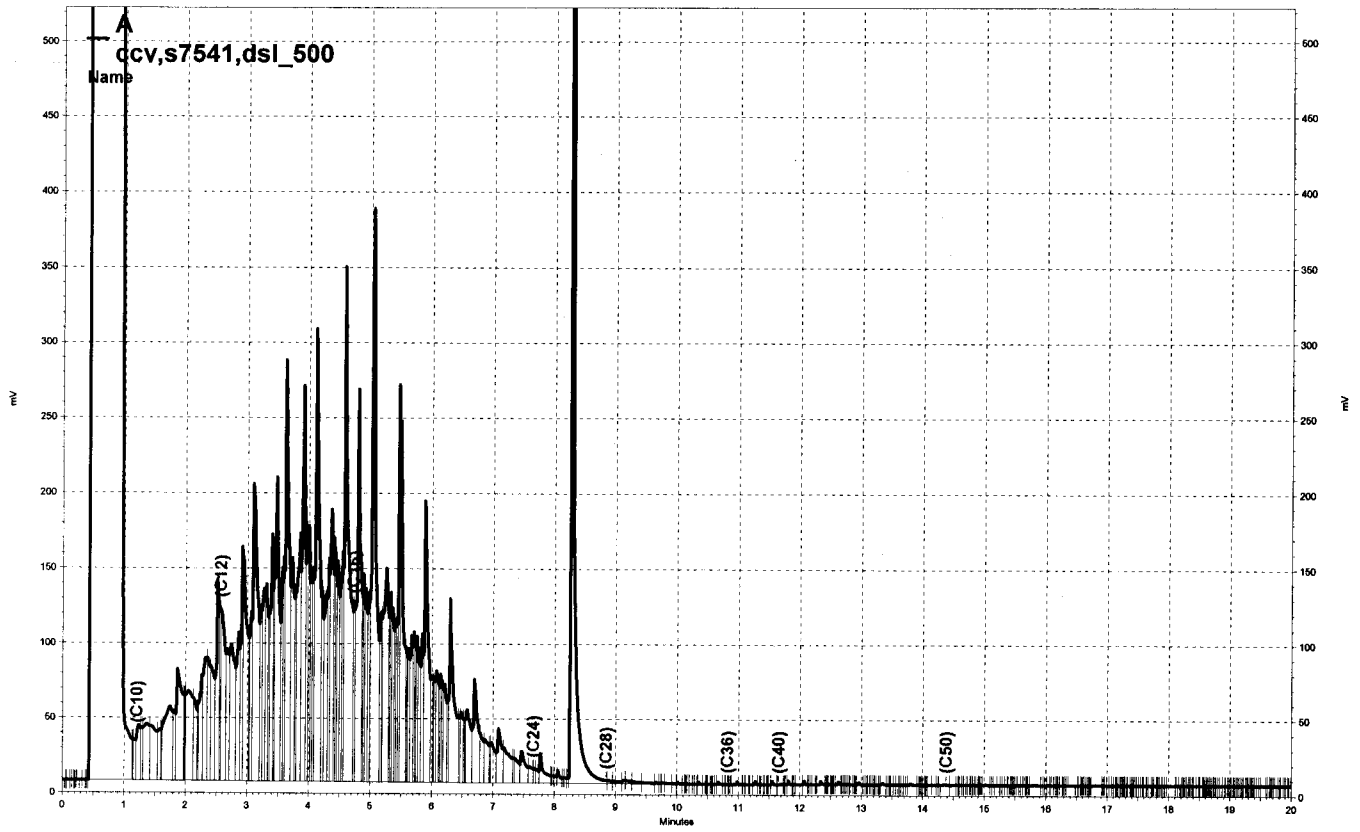
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\312a026, A



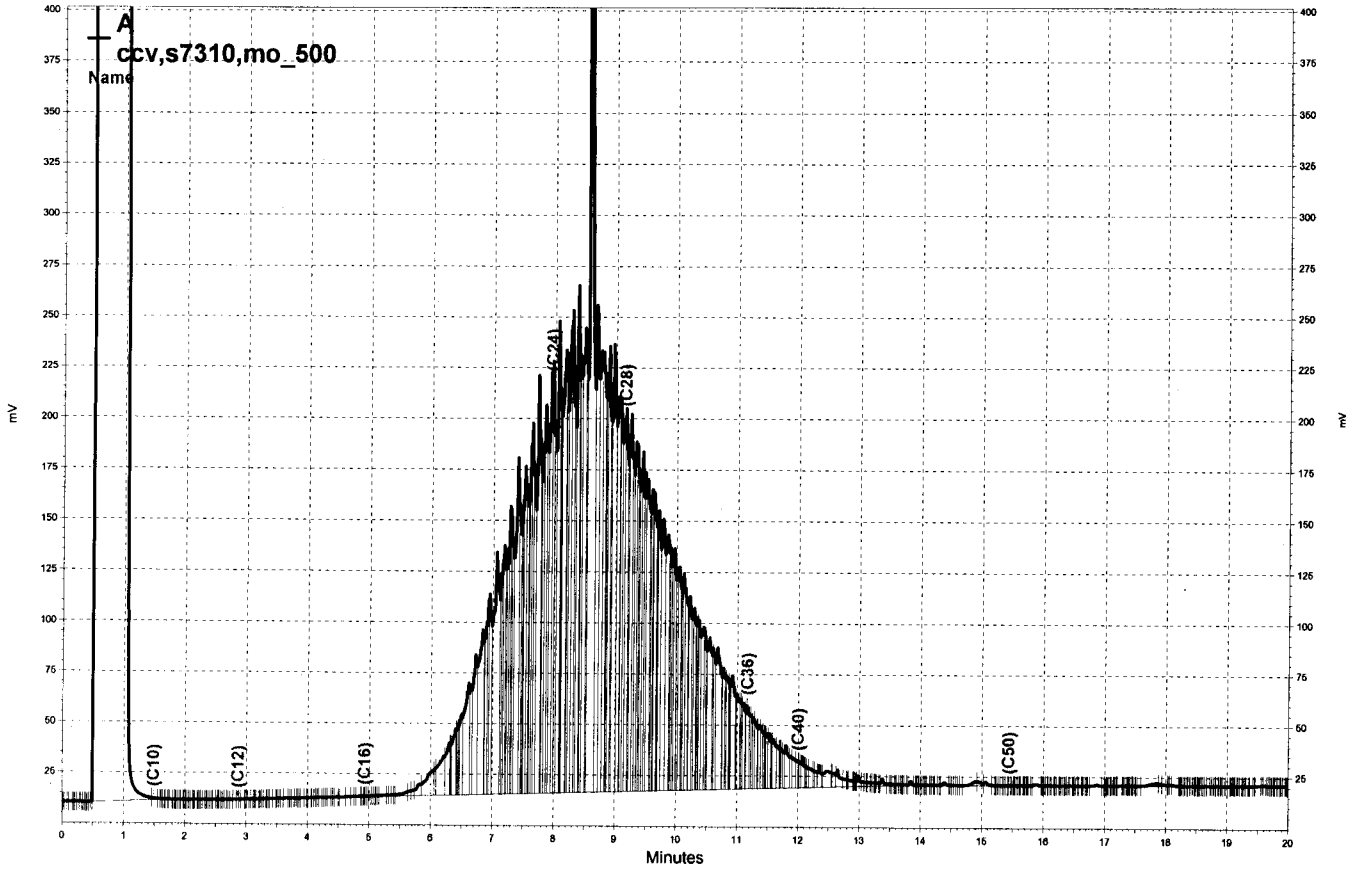
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\312b036, B



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\312a021, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\312a038, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\312a017, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC414317	Batch#:	131458
Matrix:	Soil	Prepared:	11/08/07
Units:	mg/Kg	Analyzed:	11/09/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.89	38.38	77	65-135

Surrogate	%REC	Limits
Hexacosane	78	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX363[8.0]	Batch#:	131458
MSS Lab ID:	199042-003	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	mg/Kg	Prepared:	11/08/07
Basis:	dry	Analyzed:	11/09/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC414318
Moisture: 19%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	0.4394	61.67	54.09	87	65-135

Surrogate	%REC	Limits
Hexacosane	81	65-135

Type: MSD
Lab ID: QC414319
Moisture: 19%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	61.18	48.61	79	65-135	10	35

Surrogate	%REC	Limits
Hexacosane	75	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55919	55653	56285	69462	54976	57202	AVRG		1.72E-5		58249	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-4	100.0	-4	500.0	-3	1000	19	5000	-6	7500	-2

Analyst: MCH Date: 02/12/07 Reviewer: CP Date: 02/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199042 GCSV Soil
EPA 8015B

Inst : GC11A
Calnum : 117061448001

Name : Diesel
Cal Date : 11-FEB-2007

ICV 117061448016 (042a016 12-FEB-2007) stds: S5419 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	58249	55207	500.0	473.9	mg/L	-5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117245263001
Units : mg/L

Name : Hexacosane
Date : 19-JUN-2007 15:44
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a013	117245263013	HEX_5	19-JUN-2007 15:44	S5751
L2	170a014	117245263014	HEX_10	19-JUN-2007 16:12	S5752
L3	170a015	117245263015	HEX_25	19-JUN-2007 16:39	S5753
L4	170a016	117245263016	HEX_50	19-JUN-2007 17:07	S5754
L5	170a017	117245263017	HEX_100	19-JUN-2007 17:35	S5755
L6	170a018	117245263018	HEX_200	19-JUN-2007 18:03	S5756

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73443	70316	70392	69800	67695	67745	AVRG		1.43E-5		69898	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	5	10.00	1	25.00	1	50.00	0	100.0	-3	200.0	-3

Analyst: DLM Date: 06/20/07 Reviewer: CW Date: 06/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183006
Units : mg/L

Name : dsl
Date : 10-OCT-2007 12:00
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_003	227408183003	DSL_10	10-OCT-2007 12:00	S6612
L2	283_004	227408183004	DSL_100	10-OCT-2007 12:29	S6613
L3	283_005	227408183005	DSL_500	10-OCT-2007 12:58	S6614
L4	283_006	227408183006	DSL_1000	10-OCT-2007 13:27	S6615
L5	283_007	227408183007	DSL_5000	10-OCT-2007 13:56	S6611
L6	283_008	227408183008	DSL_7500	10-OCT-2007 14:25	S6616

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	57537	63636	64700	63713	59922	65554	AVRG		1.60E-5		62510	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	B	10.00	-8	100.0	2	500.0	4	1000	2	5000	-4	7500	5

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199042 GCSV Soil
EPA 8015B

Inst : GC14B
Name : dsl
Calnum : 227408183006
Cal Date : 10-OCT-2007

ICV 227408183010 (283_010 10-OCT-2007) stds: S6617 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	62510	57512	500.0	460.0	mg/L	-8	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183005
Units : mg/L

Name : Motor Oil
Date : 10-OCT-2007 16:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_012	227408183012	MO_50	10-OCT-2007 16:20	S6848
L2	283_013	227408183013	MO_250	10-OCT-2007 16:48	S6849
L3	283_014	227408183014	MO_500	10-OCT-2007 17:16	S6850
L4	283_015	227408183015	MO_1000	10-OCT-2007 17:44	S6851
L5	283_040	227408183040	MO_5000	11-OCT-2007 10:35	S6846

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	39282	41294	41437	39011	31093	AVRG		2.60E-5		38423	11	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	B	50.00	2	250.0	7	500.0	8	1000	2	5000	-19

00015

Analyst: ATL Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

227408183005

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183002
Units : mg/L

Name : HEX
Date : 10-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_019	227408183019	HEX_5	10-OCT-2007 19:38	S7036
L2	283_020	227408183020	HEX_10	10-OCT-2007 20:06	S7037
L3	283_021	227408183021	HEX_25	10-OCT-2007 20:34	S7038
L4	283_022	227408183022	HEX_50	10-OCT-2007 21:03	S7039
L5	283_023	227408183023	HEX_100	10-OCT-2007 21:31	S7040
L6	283_024	227408183024	HEX_200	10-OCT-2007 22:00	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	62663	62290	59838	61265	60611	52506	AVRG		1.67E-5		59862	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	5	10.00	4	25.00	0	50.00	2	100.0	1	200.0	-12

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177330472002
Units : mg/L

Name : MO
Date : 17-AUG-2007 18:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	229a015	177330472015	MO_50	17-AUG-2007 18:23	S6848
L2	229a016	177330472016	MO_250	17-AUG-2007 18:51	S6849
L3	229a017	177330472017	MO_500	17-AUG-2007 19:18	S6850
L4	229a018	177330472018	MO_1000	17-AUG-2007 19:45	S6851
L5	229a019	177330472019	MO_5000	17-AUG-2007 20:13	S6846
L6	229a020	177330472020	MO_7500	17-AUG-2007 20:40	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	50681	53699	55379	55614	54069	53736	AVRG		1.86E-5		53863	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-6	250.0	0	500.0	3	1000	3	5000	0	7500	0

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

00047

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177377811001
Units : mg/L

Name : hex 5pt.
Date : 19-SEP-2007 19:51
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	262a024	177377811024	HEX_5	19-SEP-2007 19:51	S7036
L2	262a025	177377811025	HEX_10	19-SEP-2007 20:18	S7037
L3	262a026	177377811026	HEX_25	19-SEP-2007 20:46	S7038
L4	262a027	177377811027	HEX_50	19-SEP-2007 21:13	S7039
L5	262a028	177377811028	HEX_100	19-SEP-2007 21:41	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	90416	88456	87718	89582	89186	AVRG		1.12E-5		89072	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	-2	50.00	1	100.0	0

Analyst: ZA Date: 09/19/07 Reviewer: LH Date: 09/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177441350001
Units : mg/L

Name : dsl 6pt.
Date : 02-NOV-2007 19:16
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	306a008	177441350008	DSL_10	02-NOV-2007 19:16	S6612
L2	306a009	177441350009	DSL_100	02-NOV-2007 19:44	S6613
L3	306a010	177441350010	DSL_500	02-NOV-2007 20:11	S6614
L4	306a011	177441350011	DSL_1000	02-NOV-2007 20:39	S6615
L5	306a012	177441350012	DSL_5000	02-NOV-2007 21:06	S6611
L6	306a013	177441350013	DSL_7500	02-NOV-2007 21:34	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	68436	66248	61702	61110	73711	65026	AVRG		1.51E-5		66039	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	4	100.0	0	500.0	-7	1000	-7	5000	12	7500	-2

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199042 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 177441350001

Name : dsl 6pt.
Cal Date : 02-NOV-2007

ICV 177441350015 (306a015 02-NOV-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	66039	66510	500.0	503.6	mg/L	1	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_500 IDF : 1.0
Seqnum : 117449717038 File : 312a038 Time : 09-NOV-2007 07:15
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	61978	500.0	532.0	mg/L	6	15	
Hexacosane	117245263001	19-JUN-2007	69898	68578	50.00	49.06	mg/L	-2	15	

Analyst: ATL Date: 11/09/07 Reviewer: JDG Date: 11/09/07

117449717038

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_1000 IDF : 1.0
Seqnum : 117449717054 File : 312a054 Time : 09-NOV-2007 15:00
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	117061448001	11-FEB-2007	58249	57906	1000	994.1	mg/L	-1	15	
Hexacosane	117245263001	19-JUN-2007	69898	67023	50.00	47.94	mg/L	-4	15	

Analyst: JDG Date: 11/12/07 Reviewer: LH Date: 11/12/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 227449723031 File : 312_031 Time : 08-NOV-2007 22:15
Standards: S6809

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	57192	1000	914.9	mg/L	-9	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	58609	50.00	48.95	mg/L	-2	15	

Analyst: ZA Date: 11/09/07 Reviewer: JDG Date: 11/09/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227449723032 File : 312_032 Time : 09-NOV-2007 01:01
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	35084	500.0	456.5	mg/L	-9	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	60872	50.00	50.84	mg/L	2	15	

Analyst: ZA Date: 11/09/07 Reviewer: JDG Date: 11/09/07

227449723032

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
Seqnum : 227449723043 File : 312_043 Time : 09-NOV-2007 06:17
Standards: S7541

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227408183006	10-OCT-2007	62510	61515	500.0	492.0	mg/L	-2	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	64820	50.00	54.14	mg/L	8	15	

Analyst: ATL Date: 11/09/07 Reviewer: JDG Date: 11/09/07

227449723043

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227449723044 File : 312_044 Time : 09-NOV-2007 06:46
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	35287	500.0	459.2	mg/L	-8	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	62852	50.00	52.50	mg/L	5	15	

Analyst: ATL Date: 11/09/07 Reviewer: JDG Date: 11/09/07

227449723044

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
Seqnum : 177449719016 File : 312a016 Time : 08-NOV-2007 14:26
Standards: S7540

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	65055	250.0	246.3	mg/L	-1	15	
Hexacosane	177377811001	19-SEP-2007	89072	86391	50.00	48.50	mg/L	-3	15	

Analyst: ZA Date: 11/09/07 Reviewer: JDG Date: 11/09/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177449719017 File : 312a017 Time : 08-NOV-2007 14:53
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	53227	500.0	494.1	mg/L	-1	15	
Hexacosane	177377811001	19-SEP-2007	89072	89711	50.00	50.36	mg/L	1	15	

Analyst: ZA Date: 11/09/07 Reviewer: JDG Date: 11/09/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 177449719028 File : 312a028 Time : 09-NOV-2007 05:42
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	64013	1000	969.3	mg/L	-3	15	
Hexacosane	177377811001	19-SEP-2007	89072	90030	50.00	50.54	mg/L	1	15	

Analyst: ATL Date: 11/09/07 Reviewer: JDG Date: 11/09/07

177449719028

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177449719029 File : 312a029 Time : 09-NOV-2007 06:09
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	54709	500.0	507.9	mg/L	2	15	
Hexacosane	177377811001	19-SEP-2007	89072	91609	50.00	51.42	mg/L	3	15	

Analyst: ATL Date: 11/09/07 Reviewer: JDG Date: 11/09/07

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117061448

Instrument : GC11A
Method : EPA 8015B

Begun : 02/11/07 16:08
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	042a001	X	IB			02/11/07 16:08	1.0	
002	042a002	X	DSL_500			02/11/07 16:35	1.0	1
003	042a003	X	MO_500			02/11/07 17:03	1.0	2
004	042a004	X	MO_500			02/11/07 17:47	1.0	2
005	042a005	CCV	MO_500			02/11/07 18:33	1.0	2
006	042a006	CCV	DSL_500			02/11/07 19:02	1.0	1
007	042a007	CCV	DSL_500			02/11/07 19:30	1.0	1
008	042a008	X	IB			02/11/07 20:45	1.0	
009	042a009	ICAL	DSL_10			02/11/07 21:13	1.0	3
010	042a010	ICAL	DSL_100			02/11/07 21:41	1.0	4
011	042a011	ICAL	DSL_500			02/11/07 22:09	1.0	5
012	042a012	ICAL	DSL_1000			02/11/07 22:37	1.0	6
013	042a013	ICAL	DSL_5000			02/11/07 23:05	1.0	7
014	042a014	ICAL	DSL_7500			02/11/07 23:33	1.0	8
015	042a015	IB	CALIB			02/12/07 00:01	1.0	
016	042a016	ICV	DSL_500			02/12/07 00:28	1.0	9
017	042a017	XICV	DSL_500			02/12/07 00:57	1.0	9
018	042a018	X	IB			02/12/07 01:24	1.0	
019	042a019	CMARKER	C8-C50			02/12/07 09:23	1.0	10

CP 02/12/07 : carbon markers run after ical.

Analyst: CP Date: 02/12/07 Reviewer: MCH Date: 02/12/07

Standards used: 1=S5517 2=S4886 3=S5413 4=S5414 5=S5416 6=S5417 7=S5411 8=S5412 9=S5419 10=S4049

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117245263

Instrument : GC11A
Method : EPA 8015B
Begun : 06/19/07 07:43
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	170a001	X	PRIMER			06/19/07 07:43	1.0	
002	170a002	X	IB			06/19/07 08:11	1.0	
003	170a003	CMARKER	C8-C50			06/19/07 08:40	1.0	1
004	170a004	X	DSL_500			06/19/07 09:08	1.0	2
005	170a005	X	MO_500			06/19/07 09:36	1.0	3
006	170a006	X	MO_500			06/19/07 11:15	1.0	3
008	170a008	X	IB			06/19/07 12:29	1.0	
009	170a009	X	CMARKER			06/19/07 12:57	1.0	1
010	170a010	X	DSL_500			06/19/07 13:24	1.0	2
011	170a011	X	MO_500			06/19/07 13:52	1.0	3
012	170a012	IB	CALIB			06/19/07 15:16	1.0	
013	170a013	ICAL	HEX_5			06/19/07 15:44	1.0	4
014	170a014	ICAL	HEX_10			06/19/07 16:12	1.0	5
015	170a015	ICAL	HEX_25			06/19/07 16:39	1.0	6
016	170a016	ICAL	HEX_50			06/19/07 17:07	1.0	7
017	170a017	ICAL	HEX_100			06/19/07 17:35	1.0	8
018	170a018	ICAL	HEX_200			06/19/07 18:03	1.0	9
019	170a019	X	IB			06/19/07 18:30	1.0	

Analyst: DLM Date: 06/19/07 Reviewer: CW Date: 06/20/07

Standards used: 1=S4049 2=S6346 3=S6046 4=S5751 5=S5752 6=S5753 7=S5754 8=S5755 9=S5756

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117449717

Instrument : GC11A
Method : EPA 8015B

Begun : 11/08/07 07:17
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	312a001	X	PRIMER				11/08/07 07:17	1.0	
002	312a002	X	IB				11/08/07 07:45	1.0	
003	312a003	CMARKER	C8-C50				11/08/07 08:13	1.0	1
004	312a004	CCV	DSL_500				11/08/07 08:41	1.0	2
005	312a005	CCV	MO_500				11/08/07 09:09	1.0	3
006	312a006	SAMPLE	198880-002	S	Soil	131427	11/08/07 09:48	1.0	
007	312a007	SAMPLE	198908-011	S	Soil	131427	11/08/07 10:16	1.0	
008	312a008	CCV	DSL_1000				11/08/07 10:54	1.0	4
009	312a009	CCV	MO_500				11/08/07 11:22	1.0	3
010	312a010	SAMPLE	199008-002		Soil	131427	11/08/07 11:50	1.0	
011	312a011	SAMPLE	199008-003		Soil	131427	11/08/07 12:18	1.0	
012	312a012	SAMPLE	199008-005		Soil	131427	11/08/07 12:46	1.0	
013	312a013	SAMPLE	199008-006		Soil	131427	11/08/07 13:14	1.0	
014	312a014	SAMPLE	199008-004		Soil	131427	11/08/07 13:42	2.0	
015	312a015	X	IB				11/08/07 14:11	1.0	
016	312a016	SAMPLE	199008-010		Soil	131427	11/08/07 14:39	1.0	
017	312a017	SAMPLE	199008-015		Soil	131427	11/08/07 15:38	1.0	
018	312a018	SAMPLE	199008-014		Soil	131427	11/08/07 16:06	1.0	
019	312a019	SAMPLE	199008-011		Soil	131427	11/08/07 16:33	1.0	
020	312a020	X	IB				11/08/07 17:02	1.0	
021	312a021	SAMPLE	199008-013		Soil	131427	11/08/07 17:30	1.0	
022	312a022	X	CMARKER				11/08/07 17:58	1.0	1
023	312a023	CCV	DSL_250				11/08/07 18:26	1.0	5
024	312a024	CCV	MO_500				11/08/07 18:54	1.0	3
025	312a025	BLANK	QC414171	S	Water	131425	11/09/07 01:10	1.0	
026	312a026	SAMPLE	198996-001	S	Water	131425	11/09/07 01:38	1.0	
027	312a027	SAMPLE	198959-026		Soil	131391	11/09/07 02:06	1.0	
028	312a028	SAMPLE	198959-033		Soil	131391	11/09/07 02:34	1.0	
029	312a029	SAMPLE	198959-034		Soil	131391	11/09/07 03:02	1.0	
030	312a030	SAMPLE	198959-027		Soil	131391	11/09/07 03:30	1.0	
031	312a031	SAMPLE	198959-022		Soil	131391	11/09/07 03:58	1.0	
032	312a032	X	IB				11/09/07 04:26	1.0	
033	312a033	SAMPLE	198959-024		Soil	131391	11/09/07 04:54	1.0	
034	312a034	SAMPLE	199008-008		Soil	131427	11/09/07 05:22	1.0	
035	312a035	SAMPLE	199008-009		Soil	131427	11/09/07 05:50	1.0	
036	312a036	X	IB				11/09/07 06:18	1.0	
037	312a037	X	CMARKER				11/09/07 06:46	1.0	1
038	312a038	CCV	DSL_500				11/09/07 07:15	1.0	2
039	312a039	CCV	MO_500				11/09/07 07:43	1.0	3
040	312a040	CCV	JP5_250				11/09/07 08:11	1.0	6
041	312a041	CCV	BUNK_1250				11/09/07 08:39	1.0	7
042	312a042	MS	QC414318	S	Soil	131458	11/09/07 09:07	1.0	
043	312a043	MSD	QC414319	S	Soil	131458	11/09/07 09:35	1.0	
044	312a044	BLANK	QC414171	S	Water	131425	11/09/07 10:04	1.0	
045	312a045	BLANK	QC414171		Water	131425	11/09/07 10:32	1.0	
046	312a046	SAMPLE	198925-001		Water	131425	11/09/07 11:14	1.0	
047	312a047	SAMPLE	198999-006		Water	131425	11/09/07 11:42	1.0	
048	312a048	SAMPLE	198999-005		Water	131425	11/09/07 12:10	1.0	
049	312a049	SAMPLE	198999-004		Water	131425	11/09/07 12:38	1.0	
050	312a050	X	IB				11/09/07 13:07	1.0	
051	312a051	SAMPLE	198999-006	S	Water	131425	11/09/07 13:35	1.0	
052	312a052	SAMPLE	198999-004	S	Water	131425	11/09/07 14:03	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117449717

Instrument : GC11A
Method : EPA 8015B

Begun : 11/08/07 07:17
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	312a053	X	CMARKER				11/09/07 14:32	1.0	1
054	312a054	CCV	DSL_1000				11/09/07 15:00	1.0	4
055	312a055	CCV	MO_500				11/09/07 15:28	1.0	3
056	312a056	CCV	JP5_250				11/09/07 15:56	1.0	6
057	312a057	CCV	BUNK_1250				11/09/07 17:04	1.0	7
058	312a058	SAMPLE	198925-001		Water	131425	11/09/07 17:42	1.0	
059	312a059	SAMPLE	198999-001		Water	131425	11/09/07 18:10	1.0	
060	312a060	SAMPLE	198999-003		Water	131425	11/09/07 18:38	1.0	
061	312a061	SAMPLE	198999-003	S	Water	131425	11/09/07 19:06	1.0	
062	312a062	SAMPLE	199036-004	S	Water	131425	11/09/07 19:35	1.0	
063	312a063	SAMPLE	199026-004	S	Water	131425	11/09/07 20:03	1.0	
064	312a064	X	IB				11/09/07 20:31	1.0	
065	312a065	SAMPLE	199026-006	S	Water	131425	11/09/07 21:00	1.0	
066	312a066	SAMPLE	199036-001	S	Water	131425	11/09/07 21:28	1.0	
067	312a067	SAMPLE	199036-002	S	Water	131425	11/09/07 21:56	1.0	
068	312a068	SAMPLE	199036-003	S	Water	131425	11/09/07 22:24	1.0	
069	312a069	X	CMARKER				11/09/07 22:52	1.0	1
070	312a070	CCV	DSL_500				11/09/07 23:21	1.0	2
077	312a077	X	CCV				11/09/07 23:51	1.0	7
078	312a078	BLANK	QC414590		Soil	131525	11/10/07 00:19	1.0	
079	312a079	LCS	QC414591		Soil	131525	11/10/07 00:47	1.0	
080	312a080	SAMPLE	199025-001		Soil	131525	11/10/07 01:16	1.0	
081	312a081	SAMPLE	199025-002		Soil	131525	11/10/07 01:44	1.0	
082	312a082	SAMPLE	199025-013		Soil	131525	11/10/07 02:12	1.0	
083	312a083	SAMPLE	199025-016		Soil	131525	11/10/07 02:40	200.0	
084	312a084	X	IB				11/10/07 03:08	1.0	
085	312a085	SAMPLE	199025-003		Soil	131525	11/10/07 03:37	1.0	
086	312a086	SAMPLE	199025-004		Soil	131525	11/10/07 04:05	1.0	
087	312a087	SAMPLE	199025-017		Soil	131525	11/10/07 04:33	200.0	
088	312a088	X	IB				11/10/07 05:01	1.0	
089	312a089	SAMPLE	199025-005		Soil	131525	11/10/07 05:29	1.0	
090	312a090	CCV	DSL_1000				11/10/07 05:57	1.0	4
091	312a091	CCV	MO_500				11/10/07 06:26	1.0	3
092	312a092	X	CCV				11/10/07 06:54	1.0	4
093	312a093	X	CCV				11/10/07 07:22	1.0	3
094	312a094	SAMPLE	199025-007		Soil	131525	11/10/07 07:50	1.0	
095	312a095	SAMPLE	199025-006		Soil	131525	11/10/07 08:18	1.0	
096	312a096	SAMPLE	199025-014		Soil	131525	11/10/07 08:46	1.0	
097	312a097	SAMPLE	199025-011		Soil	131525	11/10/07 09:15	1.0	
098	312a098	SAMPLE	199025-020		Soil	131525	11/10/07 09:43	100.0	
099	312a099	SAMPLE	199025-019		Soil	131525	11/10/07 10:11	200.0	
100	312a100	X	IB				11/10/07 10:39	1.0	
101	312a101	MS	QC414592		Soil	131525	11/10/07 11:07	1.0	
102	312a102	MSD	QC414593		Soil	131525	11/10/07 11:36	1.0	
103	312a103	MSS	199025-015		Soil	131525	11/10/07 12:04	1.0	
104	312a104	SAMPLE	199025-012		Soil	131525	11/10/07 12:32	1.0	
105	312a105	CCV	DSL_500				11/10/07 13:00	1.0	2
106	312a106	CCV	MO_500				11/10/07 13:28	1.0	3
107	312a107	X	CMARKER				11/10/07 13:56	1.0	1

Standards used: 1=S7307 2=S7541 3=S7310 4=S6809 5=S7540 6=S6929 7=S7350

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177330472

Instrument : GC17A
Method : EPA 8015B
Begun : 08/17/07 11:52
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	229a001	X	PRIMER			08/17/07 11:52	1.0	
002	229a002	X	IB			08/17/07 12:20	1.0	
003	229a003	CMARKER	C10-C50			08/17/07 12:47	1.0	1
004	229a004	IB	CALIB			08/17/07 13:14	1.0	
005	229a005	ICAL	DSL_10			08/17/07 13:42	1.0	2
006	229a006	ICAL	DSL_100			08/17/07 14:09	1.0	3
007	229a007	ICAL	DSL_500			08/17/07 14:37	1.0	4
008	229a008	ICAL	DSL_1000			08/17/07 15:04	1.0	5
009	229a009	ICAL	DSL_5000			08/17/07 15:31	1.0	6
010	229a010	ICAL	DSL_7500			08/17/07 15:59	1.0	7
011	229a011	IB	CALIB			08/17/07 16:26	1.0	
012	229a012	ICV	DSL_500			08/17/07 16:54	1.0	8
013	229a013	X	ICV			08/17/07 17:28	1.0	8
014	229a014	IB	CALIB			08/17/07 17:56	1.0	
015	229a015	ICAL	MO_50			08/17/07 18:23	1.0	9
016	229a016	ICAL	MO_250			08/17/07 18:51	1.0	10
017	229a017	ICAL	MO_500			08/17/07 19:18	1.0	11
018	229a018	ICAL	MO_1000			08/17/07 19:45	1.0	12
019	229a019	ICAL	MO_5000			08/17/07 20:13	1.0	13
020	229a020	ICAL	MO_7500			08/17/07 20:40	1.0	14
021	229a021	IB	CALIB			08/17/07 21:08	1.0	

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/22/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	262a001	X	PRIMER				09/19/07 08:51	1.0		
002	262a002	X	IB				09/19/07 09:18	1.0		
003	262a003	XCMARKER	C10-C50				09/19/07 09:46	1.0	1	
005	262a005	X	IB				09/19/07 11:09	1.0		
006	262a006	XCMARKER	C10-C50				09/19/07 11:36	1.0	1	
007	262a007	CCV	DSL_500				09/19/07 12:04	1.0	2	
008	262a008	CCV	MO_500				09/19/07 12:31	1.0	3	
009	262a009	CCV	OTP_50				09/19/07 12:58	1.0	4	
010	262a010	SAMPLE	197670-001		Soil	129574	09/19/07 13:26	1.0		
011	262a011	SAMPLE	197670-002		Soil	129574	09/19/07 13:54	1.0		
012	262a012	SAMPLE	197670-003		Soil	129574	09/19/07 14:21	1.0		
013	262a013	SAMPLE	197670-004		Soil	129574	09/19/07 14:48	1.0		
014	262a014	SAMPLE	197670-005		Soil	129574	09/19/07 15:16	1.0		
015	262a015	SAMPLE	197670-006		Soil	129574	09/19/07 15:44	1.0		
016	262a016	SAMPLE	197670-007		Soil	129574	09/19/07 16:11	1.0		
017	262a017	SAMPLE	197670-008		Soil	129574	09/19/07 16:38	1.0		
018	262a018	SAMPLE	197670-009		Soil	129574	09/19/07 17:06	1.0		
019	262a019	SAMPLE	197670-010		Soil	129574	09/19/07 17:33	1.0		
020	262a020	CCV	DSL_1000				09/19/07 18:00	1.0	5	
021	262a021	CCV	MO_500				09/19/07 18:28	1.0	3	
022	262a022	CCV	DSL_1000				09/19/07 18:55	1.0	5	
023	262a023	IB	CALIB				09/19/07 19:23	1.0		
024	262a024	ICAL	HEX_5				09/19/07 19:51	1.0	6	
025	262a025	ICAL	HEX_10				09/19/07 20:18	1.0	7	
026	262a026	ICAL	HEX_25				09/19/07 20:46	1.0	8	
027	262a027	ICAL	HEX_50				09/19/07 21:13	1.0	9	
028	262a028	ICAL	HEX_100				09/19/07 21:41	1.0	10	
029	262a029	X	IB				09/19/07 22:08	1.0		
030	262a030	X	CMARKER				09/19/07 22:36	1.0	1	
031	262a031	CCV	DSL_250				09/19/07 23:03	1.0	11	
032	262a032	CCV	MO_500				09/19/07 23:31	1.0	3	
033	262a033	X	IB				09/20/07 00:02	1.0		
034	262a034	X	TANKCHK				09/20/07 00:29	1.0		
035	262a035	X	TANKCHK				09/20/07 00:56	1.0		
036	262a036	SAMPLE	197624-001		Water	129615	09/20/07 01:24	1.0		
037	262a037	XCMARKER	C10-C50				09/20/07 01:51	1.0	1	
038	262a038	CCV	DSL_500				09/20/07 02:18	1.0	2	
039	262a039	CCV	MO_500				09/20/07 02:46	1.0	3	
040	262a040	X	CCV				09/20/07 03:13	1.0	2	
041	262a041	X	CCV				09/20/07 03:41	1.0	3	
042	262a042	X	IB				09/20/07 08:18	1.0		
043	262a043	X	IB				09/20/07 08:45	1.0		
044	262a044	SAMPLE	197668-024	S	Soil	129593	09/20/07 09:13	10.0		
045	262a045	LCS	QC406929	S	Soil	129661	09/20/07 09:40	1.0		
046	262a046	BLANK	QC406928	S	Soil	129661	09/20/07 10:08	1.0		
047	262a047	SAMPLE	197557-001	S	Soil	129661	09/20/07 10:36	1.0		2:BUNKC:12-40=6200
048	262a048	SAMPLE	197557-019	S	Soil	129661	09/20/07 11:07	1.0		
049	262a049	X	IB				09/20/07 11:34	1.0		
050	262a050	SAMPLE	197557-015	S	Soil	129661	09/20/07 12:02	1.0		
051	262a051	CCV	DSL_1000				09/20/07 12:29	1.0	5	
052	262a052	X					09/20/07 12:57	1.0	3	
053	262a053	CCV	MO_500				09/20/07 13:26	1.0	3	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
054	262a054	SAMPLE	197557-017	S	Soil	129532	09/20/07 14:25	1.0		
055	262a055	CCV	DSL_250				09/20/07 14:55	1.0	11	
056	262a056	CCV	MO_500				09/20/07 15:23	1.0	3	
057	262a057	CCV	DSL_250				09/20/07 15:53	1.0	11	
058	262a058	X	IB				09/21/07 01:38	1.0		
059	262a059	X	CMARKER				09/21/07 02:06	1.0	1	
060	262a060	IB	CALIB				09/21/07 02:33	1.0		
061	262a061	ICAL	DSL_10				09/21/07 03:01	1.0	12	
062	262a062	ICAL	DSL_100				09/21/07 03:28	1.0	13	
063	262a063	ICAL	DSL_500				09/21/07 03:55	1.0	14	
064	262a064	ICAL	DSL_1000				09/21/07 04:23	1.0	15	
065	262a065	ICAL	DSL_5000				09/21/07 04:51	1.0	16	
066	262a066	ICAL	DSL_7500				09/21/07 05:18	1.0	17	
067	262a067	IB	CALIB				09/21/07 05:46	1.0		
068	262a068	ICV	DSL_500				09/21/07 06:13	1.0	18	
069	262a069	X	ICV				09/21/07 06:41	1.0	19	

Standards used: 1=S6952 2=S6808 3=S6790 4=S6922 5=S6809 6=S7036 7=S7037 8=S7038 9=S7039 10=S7040 11=S6807 12=S6612 13=S6613 14=S6614 15=S6615 16=S6611 17=S6616 18=S6617 19=S56617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177441350

Instrument : GC17A
Method : EPA 8015B

Begun : 11/02/07 11:50
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	306a001	X	IB			11/02/07 11:50	1.0		
002	306a002	X	IB			11/02/07 12:17	1.0		
003	306a003	CMARKER	C8-C50			11/02/07 12:45	1.0	1	
004	306a004	CCV	DSL_500			11/02/07 13:12	1.0	2	
005	306a005	CCV	MO_500			11/02/07 13:40	1.0	3	
006	306a006	CCV	DSL_500			11/02/07 14:58	1.0	2	
007	306a007	IB	CALIB			11/02/07 17:33	1.0		
008	306a008	ICAL	DSL_10			11/02/07 19:16	1.0	4	
009	306a009	ICAL	DSL_100			11/02/07 19:44	1.0	5	
010	306a010	ICAL	DSL_500			11/02/07 20:11	1.0	6	
011	306a011	ICAL	DSL_1000			11/02/07 20:39	1.0	7	
012	306a012	ICAL	DSL_5000			11/02/07 21:06	1.0	8	
013	306a013	ICAL	DSL_7500			11/02/07 21:34	1.0	9	
014	306a014	IB	CALIB			11/02/07 22:01	1.0		
015	306a015	ICV	DSL_500			11/02/07 22:29	1.0	10	
016	306a016	X	ICV			11/02/07 22:56	1.0	10	
017	306a017	IB	CALIB			11/02/07 23:24	1.0		

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Standards used: 1=S6952 2=S7541 3=S7310 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177449719

Instrument : GC17A
Method : EPA 8015B

Begun : 11/08/07 07:19
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	312a001	X	PRIMER				11/08/07 07:19	1.0	
002	312a002	X	IB				11/08/07 07:46	1.0	
003	312a003	X	CMARKER				11/08/07 08:13	1.0	1
004	312a004	CCV	DSL_500				11/08/07 08:41	1.0	2
005	312a005	CCV	MO_500				11/08/07 09:08	1.0	3
006	312a006	BLANK	QC414179	S	Soil	131427	11/08/07 09:49	1.0	
007	312a007	LCS	QC414180	S	Soil	131427	11/08/07 10:17	1.0	
008	312a008	SAMPLE	199006-001	S	Soil	131427	11/08/07 10:44	1.0	
009	312a009	MSS	199008-018		Soil	131427	11/08/07 11:12	1.0	
010	312a010	MS	QC414181		Soil	131427	11/08/07 11:40	1.0	
011	312a011	MSD	QC414182		Soil	131427	11/08/07 12:07	1.0	
012	312a012	BLANK	QC414179		Soil	131427	11/08/07 12:35	1.0	
013	312a013	SAMPLE	199008-012		Soil	131427	11/08/07 13:02	1.0	
014	312a014	SAMPLE	199008-017		Soil	131427	11/08/07 13:30	1.0	
015	312a015	SAMPLE	199008-007		Soil	131427	11/08/07 13:58	1.0	
016	312a016	CCV	DSL_250				11/08/07 14:26	1.0	4
017	312a017	CCV	MO_500				11/08/07 14:53	1.0	3
018	312a018	X	CCV				11/08/07 16:50	1.0	4
019	312a019	X	CCV				11/08/07 17:18	1.0	3
020	312a020	LCS	QC414317	S	Soil	131458	11/09/07 02:02	1.0	
021	312a021	BLANK	QC414316	S	Soil	131458	11/09/07 02:29	1.0	
022	312a022	BLANK	QC414316		Soil	131458	11/09/07 02:57	1.0	
023	312a023	SAMPLE	199039-001		Soil	131458	11/09/07 03:24	1.0	
024	312a024	SAMPLE	199021-003	S	Soil	131458	11/09/07 03:52	3.0	
025	312a025	X	IB				11/09/07 04:19	1.0	
026	312a026	MSS	199042-003	S	Soil	131458	11/09/07 04:47	1.0	
027	312a027	X	CMARKER				11/09/07 05:14	1.0	1
028	312a028	CCV	DSL_1000				11/09/07 05:42	1.0	5
029	312a029	CCV	MO_500				11/09/07 06:09	1.0	3

Standards used: 1=S6952 2=S7541 3=S7310 4=S7540 5=S6809

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227408183

Instrument : GC14B
Method : EPA 8015B

Begun : 10/10/07 11:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	283_001	IB	CALIB			10/10/07 11:03	1.0		
002	283_002	XCMARKER	C8-C50			10/10/07 11:32	1.0	1	
003	283_003	ICAL	DSL_10			10/10/07 12:00	1.0	2	
004	283_004	ICAL	DSL_100			10/10/07 12:29	1.0	3	
005	283_005	ICAL	DSL_500			10/10/07 12:58	1.0	4	
006	283_006	ICAL	DSL_1000			10/10/07 13:27	1.0	5	
007	283_007	ICAL	DSL_5000			10/10/07 13:56	1.0	6	
008	283_008	ICAL	DSL_7500			10/10/07 14:25	1.0	7	
009	283_009	IB	CALIB			10/10/07 14:54	1.0		
010	283_010	ICV	DSL_500			10/10/07 15:23	1.0	8	
011	283_011	IB	CALIB			10/10/07 15:51	1.0		
012	283_012	ICAL	MO_50			10/10/07 16:20	1.0	9	
013	283_013	ICAL	MO_250			10/10/07 16:48	1.0	10	
014	283_014	ICAL	MO_500			10/10/07 17:16	1.0	11	
015	283_015	ICAL	MO_1000			10/10/07 17:44	1.0	12	
016	283_016	XICAL	MO_5000			10/10/07 18:13	1.0	13	
017	283_017	XICAL	MO_7500			10/10/07 18:41	1.0	14	
018	283_018	IB	CALIB			10/10/07 19:09	1.0		
019	283_019	ICAL	HEX_5			10/10/07 19:38	1.0	15	
020	283_020	ICAL	HEX_10			10/10/07 20:06	1.0	16	
021	283_021	ICAL	HEX_25			10/10/07 20:34	1.0	17	
022	283_022	ICAL	HEX_50			10/10/07 21:03	1.0	18	
023	283_023	ICAL	HEX_100			10/10/07 21:31	1.0	19	
024	283_024	ICAL	HEX_200			10/10/07 22:00	1.0	20	
025	283_025	IB	CALIB			10/10/07 22:28	1.0		
026	283_026	ICAL	OTP_5			10/10/07 22:57	1.0	21	
027	283_027	ICAL	OTP_10			10/10/07 23:25	1.0	22	
028	283_028	ICAL	OTP_25			10/10/07 23:54	1.0	23	
029	283_029	ICAL	OTP_50			10/11/07 00:22	1.0	24	
030	283_030	ICAL	OTP_100			10/11/07 00:51	1.0	25	
031	283_031	IB	CALIB			10/11/07 01:19	1.0		
032	283_032	ICAL	JETA_10			10/11/07 01:48	1.0	26	
033	283_033	ICAL	JETA_100			10/11/07 02:16	1.0	27	
034	283_034	ICAL	JETA_500			10/11/07 02:45	1.0	28	
035	283_035	ICAL	JETA_1000			10/11/07 03:13	1.0	29	
036	283_036	ICAL	JETA_2000			10/11/07 03:41	1.0	30	
037	283_037	IB	CALIB			10/11/07 04:10	1.0		
038	283_038	X	IB			10/11/07 09:38	1.0		
039	283_039	IB	CALIB			10/11/07 10:06	1.0		
040	283_040	ICAL	MO_5000			10/11/07 10:35	1.0	13	
041	283_041	XICAL	MO_7500			10/11/07 11:03	1.0	14	
042	283_042	IB	CALIB			10/11/07 11:32	1.0		

Analyst: JDG Date: 10/11/07 Reviewer: LH Date: 10/11/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847 15=S7036 16=S7037 17=S7038 18=S7039 19=S7040 20=S7041 21=S6397 22=S6398 23=S6399 24=S6400 25=S6401 26=S6528 27=S6529 28=S6530 29=S6531 30=S6532

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227449723

Instrument : GC14B
Method : EPA 8015B

Begun : 11/08/07 07:23
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	312_001	X	PRIMER				11/08/07 07:23	1.0	
002	312_002	X	IB				11/08/07 07:52	1.0	
003	312_003	X	CMARKER				11/08/07 08:23	1.0	1
004	312_004	CCV	DSL_500				11/08/07 08:52	1.0	2
005	312_005	CCV	MO_500				11/08/07 09:21	1.0	3
006	312_006	BLANK	QC414032		Soil	131391	11/08/07 10:07	1.0	
007	312_007	LCS	QC414033		Soil	131391	11/08/07 10:36	1.0	
008	312_008	MSS	198959-016		Soil	131391	11/08/07 11:05	1.0	
009	312_009	MS	QC414034		Soil	131391	11/08/07 11:35	1.0	
010	312_010	MSD	QC414035		Soil	131391	11/08/07 12:03	1.0	
011	312_011	SAMPLE	198959-017		Soil	131391	11/08/07 12:32	1.0	
012	312_012	SAMPLE	198959-018		Soil	131391	11/08/07 13:01	1.0	
013	312_013	SAMPLE	198959-019		Soil	131391	11/08/07 13:30	1.0	
014	312_014	SAMPLE	198959-021		Soil	131391	11/08/07 14:00	100.0	
015	312_015	X	IB				11/08/07 14:29	1.0	
016	312_016	SAMPLE	198959-035		Soil	131391	11/08/07 14:58	1.0	
017	312_017	CCV	DSL_250				11/08/07 15:27	1.0	4
018	312_018	CCV	MO_500				11/08/07 15:56	1.0	3
019	312_019	MSS	198974-004	S	Soil	131364	11/08/07 16:30	1.0	
020	312_020	SAMPLE	198974-001	S	Soil	131364	11/08/07 16:59	1.0	
021	312_021	SAMPLE	198903-007	S	Soil	131364	11/08/07 17:27	1.0	
022	312_022	X	IB				11/08/07 17:56	1.0	
023	312_023	SAMPLE	198959-023		Soil	131391	11/08/07 18:25	1.0	
024	312_024	SAMPLE	198959-025		Soil	131391	11/08/07 18:54	1.0	
025	312_025	SAMPLE	198959-029		Soil	131391	11/08/07 19:23	1.0	
026	312_026	SAMPLE	198959-031		Soil	131391	11/08/07 19:51	1.0	
027	312_027	SAMPLE	198959-032		Soil	131391	11/08/07 20:20	1.0	
028	312_028	SAMPLE	198959-028		Soil	131391	11/08/07 20:49	1.0	
029	312_029	SAMPLE	198959-030		Soil	131391	11/08/07 21:17	1.0	
030	312_030	X	CMARKER				11/08/07 21:46	1.0	1
031	312_031	CCV	DSL_1000				11/08/07 22:15	1.0	5
032	312_032	CCV	MO_500				11/09/07 01:01	1.0	3
033	312_033	X	CCV				11/09/07 01:29	1.0	5
034	312_034	X	CCV				11/09/07 01:58	1.0	3
035	312_035	SAMPLE	199042-004	S	Soil	131458	11/09/07 02:27	1.0	
036	312_036	SAMPLE	199042-005	S	Soil	131458	11/09/07 02:55	1.0	
037	312_037	SAMPLE	199039-002		Soil	131458	11/09/07 03:24	1.0	
038	312_038	SAMPLE	199039-004		Soil	131458	11/09/07 03:53	1.0	
039	312_039	SAMPLE	199039-005		Soil	131458	11/09/07 04:22	1.0	
040	312_040	X	IB				11/09/07 04:51	1.0	
041	312_041	SAMPLE	199039-003		Soil	131458	11/09/07 05:20	1.0	
042	312_042	X	CMARKER				11/09/07 05:48	1.0	1
043	312_043	CCV	DSL_500				11/09/07 06:17	1.0	2
044	312_044	CCV	MO_500				11/09/07 06:46	1.0	3
045	312_045	SAMPLE	198959-021		Soil	131391	11/09/07 07:17	50.0	
046	312_046	X	IB				11/09/07 07:47	1.0	
047	312_047	LCS	QC414172	S	Water	131425	11/09/07 08:16	1.0	
048	312_048	MSS	199026-005	S	Water	131425	11/09/07 08:45	1.0	
049	312_049	MS	QC414173	S	Water	131425	11/09/07 09:14	1.0	
050	312_050	MSD	QC414174	S	Water	131425	11/09/07 09:43	1.0	
051	312_051	SAMPLE	199002-001		Water	131425	11/09/07 10:12	1.0	
052	312_052	SAMPLE	199002-002		Water	131425	11/09/07 10:41	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227449723

Instrument : GC14B
Method : EPA 8015B

Begun : 11/08/07 07:23
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	312_053	SAMPLE	199026-001	S	Water	131425	11/09/07 11:10	1.0	
054	312_054	SAMPLE	199026-002	S	Water	131425	11/09/07 11:39	1.0	
055	312_055	X	IB				11/09/07 12:08	1.0	
056	312_056	SAMPLE	199026-003	S	Water	131425	11/09/07 12:37	1.0	
057	312_057	CCV	DSL_250				11/09/07 13:06	1.0	4
058	312_058	CCV	MO_500				11/09/07 13:35	1.0	3
059	312_059	CCV	OTP_50				11/09/07 14:04	1.0	6
060	312_060	BLANK	QC414550		Soil	131514	11/09/07 15:14	1.0	
061	312_061	BLANK	QC414550	S	Soil	131514	11/09/07 15:42	1.0	
062	312_062	MSS	199009-001		Soil	131514	11/09/07 16:11	1.0	
063	312_063	SAMPLE	199009-002		Soil	131514	11/09/07 16:40	1.0	
064	312_064	SAMPLE	199009-004		Soil	131514	11/09/07 17:09	1.0	
065	312_065	SAMPLE	199009-003		Soil	131514	11/09/07 17:38	1.0	
066	312_066	SAMPLE	199030-017		Soil	131514	11/09/07 18:06	1.0	
067	312_067	X	IB				11/09/07 18:35	1.0	
068	312_068	MS	QC414552		Soil	131514	11/09/07 19:05	1.0	
069	312_069	MSD	QC414553		Soil	131514	11/09/07 19:33	1.0	
070	312_070	X	IB				11/09/07 20:02	1.0	
071	312_071	LCS	QC414551	S	Soil	131514	11/09/07 20:31	1.0	
072	312_072	X	CMARKER				11/09/07 21:00	1.0	1
073	312_073	CCV	DSL_1000				11/09/07 21:29	1.0	5
074	312_074	CCV	MO_500				11/09/07 21:58	1.0	3
075	312_075	CCV	OTP_50				11/09/07 22:27	1.0	6
076	312_076	X	CCV				11/09/07 22:56	1.0	5
077	312_077	X	CCV				11/09/07 23:24	1.0	3
078	312_078	X	CCV				11/09/07 23:53	1.0	6
079	312_079	SAMPLE	199009-005		Soil	131514	11/10/07 00:22	1.0	
080	312_080	SAMPLE	199009-006		Soil	131514	11/10/07 00:51	1.0	
081	312_081	SAMPLE	199009-007		Soil	131514	11/10/07 01:20	1.0	
082	312_082	SAMPLE	199009-008		Soil	131514	11/10/07 01:49	1.0	
083	312_083	SAMPLE	199009-009		Soil	131514	11/10/07 02:18	1.0	
084	312_084	X	IB				11/10/07 02:47	1.0	
085	312_085	SAMPLE	199009-010		Soil	131514	11/10/07 03:16	1.0	
086	312_086	SAMPLE	199009-012		Soil	131514	11/10/07 03:45	1.0	
087	312_087	SAMPLE	199009-013		Soil	131514	11/10/07 04:13	1.0	
088	312_088	SAMPLE	199009-011		Soil	131514	11/10/07 04:42	1.0	
089	312_089	X	IB				11/10/07 05:11	1.0	
090	312_090	SAMPLE	199060-005		Soil	131514	11/10/07 05:40	1.0	
091	312_091	X	CMARKER				11/10/07 06:09	1.0	1
092	312_092	CCV	DSL_500				11/10/07 06:38	1.0	2
093	312_093	CCV	MO_500				11/10/07 07:06	1.0	3
094	312_094	CCV	OTP_50				11/10/07 07:35	1.0	6
095	312_095	X	CCV				11/10/07 08:04	1.0	2
096	312_096	X	CCV				11/10/07 08:33	1.0	3
097	312_097	X	CCV				11/10/07 09:02	1.0	6

Standards used: 1=S6952 2=S7541 3=S7310 4=S7540 5=S6809 6=S6922

REPORTING SUMMARY FOR 199042 TEHM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
199042-003	GC17A	11/09/07 04:47	1.0	+	+	+	
199042-004	GC14B	11/09/07 02:27	1.0	+	+	+	
199042-005	GC14B	11/09/07 02:55	1.0	+	+	+	
QC414316	GC17A	11/09/07 02:29	1.0	+	+	+	
QC414316	GC17A	11/09/07 02:57	1.0				
QC414317	GC17A	11/09/07 02:02	1.0	+		+	
QC414318	GC11A	11/09/07 09:07	1.0	+		+	
QC414319	GC11A	11/09/07 09:35	1.0	+		+	

SAMPLE PREPARATION SUMMARY

Batch # : 131458
Started By : KML
Method : SHAKER TABLE
Spike #1 ID : S7552
Prep Date : 08-NOV-2007
SOP Version : TEH1_rv9
Spike #2 ID : S7578
Analysis : TEH
Finished By : MJD
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198959-020		Soil	50.36	5	1	0.09929		1				TEHM	
199008-019		Soil	50.28	5	1	0.09944		1				TEHM	
199008-020		Soil	50.04	5	1	0.09992		1				TEHM	
199008-021		Soil	50.04	5	1	0.09992		1				TEHM	
199008-022		Soil	50.11	5	1	0.09978		1				TEHM	
199008-023		Soil	50.14	5	1	0.09972		1				TEHM	
199008-024		Soil	50.07	5	1	0.09986		1				TEHM	
199021-003		Soil	50.28	5	1	0.09944		1			3630C	TEHM	
199039-001		Soil	50.24	5	1	0.09952		1				TEHM	
199039-002		Soil	50.01	5	1	0.09998		1				TEHM	
199039-003		Soil	50.02	5	1	0.09996		1				TEHM	
199039-004		Soil	50.18	5	1	0.09964		1				TEHM	
199039-005		Soil	50.15	5	1	0.0997		1				TEHM	
199042-003		Soil	50.45	5	1	0.09911		1			3630C	TEHM	MSS
199042-004		Soil	50.33	5	1	0.09934		1			3630C	TEHM	
199042-005		Soil	50.46	5	1	0.09909		1			3630C	TEHM	
199044-017		Soil	50.25	5	1	0.0995		1			3630C	TEH	
199044-018		Soil	50.24	5	1	0.09952		1			3630C	TEH	
199044-019		Soil	50.09	5	1	0.09982		1			3630C	TEH	
199044-020		Soil	50.09	5	1	0.09982		1			3630C	TEH	
QC414316	BLANK	Soil	50.25	5	1	0.0995		1			3630C		
QC414317	LCS	Soil	50.11	5	1	0.09978		1	1		3630C		
QC414318	MS	Soil	50.05	5	1	0.0999		1	1		3630C		
QC414319	MSD	Soil	50.45	5	1	0.09911		1	1		3630C		

Analyst: JDG Date: 11/12/07 Reviewer: LH Date: 11/12/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 55

LIMS Batch No: 131458
LIMS Analysis TEH/M
Date Extracted: 11/8/07

Extraction Method:
☑ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198959-020 A	50.36	5.0		re-extract
	199008-019 A	50.28			
	-020	50.04			
	-021	50.04			
5	-022	50.11			
	-023	50.14			
	-024	50.07			
	199021-003 A	50.28		X	
	199039-001 A	50.24			
10	-002	50.01			
	-003	50.02			
	-004	50.18			
	-005	50.15 ~~.45~~			
	199042-003	50.45 ~~.33~~		X	MSS
15	-004	50.33 ~~.46~~			
	-005	50.46 ~~.25~~			KHL 11/8/07
	199044-017 KHL 11/8/07	50.25 ~~.24~~			
	-018	50.24 ~~.09~~			
	-019	50.09 ~~.0~~			
20	-020	50.09			
	MB QC414316	50.25			
	LCS 317	50.11			
	MS 318	50.05			
	MSD 319	50.45			
					RFW 11/8/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47158737	KHL 11/8/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47073734	
1.0 mL of Surrogate solution was added to all samples	57552 D	
1.0 mL of Matrix Spiking solution was added to all spikes	57578 B	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM47178	
Acetone	EM47190	
Samples were: ☐ sonicated 3 times ☑ placed on shaker table at:	0900	
taken off shaker table at:	1115	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47073734	MSD 11/8/07
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓ HOOD	

Mm M. Linn 11/8/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/8/07
Reviewed by / Date

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 55

LIMS Batch No: 131458
LIMS Analysis TEH/M
Date Extracted: 11/8/07

Extraction Method:
☑ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
198959-020 A	50.36	5.0		re-extract
199008-019 A	50.28			
-020	50.04			
-021	50.04			
-022	50.11			
-023	50.14			
-024	50.07			
199021-003 A	50.28		X	
199039-001 A	50.24			
-002	50.01			
-003	50.02			
-004	50.18			
-005	50.15 ~~.45~~			
199042-003	50.45 ~~.33~~		X	MSS
-004	50.33 ~~.46~~			
-005	50.46 ~~.35~~ KAL 11/8/07			
199044-017 KAL 11/8/07	50.25 ~~.24~~			
-018	50.24 ~~.09~~			
-019	50.09 ~~.0~~			
-020	50.09			
MB QC414316	50.25			
LCS 317	50.11			
MS 318	50.05			
MSD 319	50.45			
				RFW 11/8/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47158737	KAL 11/8/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47073734	
10 mL of Surrogate solution was added to all samples	57552D	
10 mL of Matrix Spiking solution was added to all spikes	57578B	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all — CH_2Cl_2	EM47178	
Acetone	EM47190	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	0900	
taken off shaker table at:	1115	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47073734	MSD 11/8/07
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓ HOOD	

Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/8/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: MJD
Cleanup Date: 11/8/07

Benchbook # **2611**
Page 11

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
199021-003	131458	1.0	1.0	
199042-003	↓	↓	↓	MSS
↓ 004				
↓ 005				
199044-017				
↓ 018				
↓ 019				
↓ 020				
MB QC414316				
LCS ↓ 7				
MS ↓ 8				
MSD ↓ 9	↓	↓	↓	

RFW 11/8/07

☐ Extracts were cleaned up using C&T assembled ____ g columns
☒ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with ~~10~~ 4.0 mL CH_2Cl_2 RFW 11/8/07
Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
N/A	MJD 11/8/07
SP902	
EM47178 RFW 11/8/07	
✓	

11/8/07
Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/8/07
Reviewed by / Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199021-003A	30.09	8270-SIM		
199042-003B	29.81			
4A	29.97			
5A	30.33			
MB	30.04			EM47158737
LCS	30.10			↓
MS	30.11			199042-003
MSD	29.76			↓
				JJB 11/7/07
199039-001A	50.24	TEHM	131459	
-002	50.01			
-003	50.02			
-004	50.18			
-005	50.15			ECB 11/7/07
199021-003A	50.28	TEHM		ECB 11/7/07
199042-003A	50.45	TEHM		MSS
-004	50.33			
-005	50.46			
199044-017	50.25			CAMD
-018	50.24			↓
-019	50.09			001A, 002A, 003A, 004A @ 15.0g each
-020	50.09			005A, 006A, 007A, 008A @ 15.0g each
MB	50.25			009A, 010A, 011A, 012A @ 15.0g each
LCS	50.11			013A, 014A, 015A, 016A @ 15.0g each
MS	50.05			EM47158737
MSD	50.45			↓
				199042-003A
				↓
			KML 11/8/07	
198959-020A	50.36	TEH		
			KML 11/8/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH##	COMMENTS
199008-001 A	50.20	TEHM		
-002	50.35			
-003	50.29			
-004	50.04			
-005	50.15			
-006	50.20			
-007	50.33			
-008	50.01			
-009	50.26			
-010	50.13			
-011	50.01			
-012	50.13			
-013	50.38			
-014	50.06			
-015	50.05			
-017	50.09			
-018	50.23			MSS EM47158787 ↓ 199008-018A
MB	50.02			
LCS	50.49			
MS	50.41			
MSD	50.49			
				PML 11/7/07
199008-019 A	50.28	TEHM	131458	
-020	50.04			
-021	50.04			
-022	50.11			
-023	50.14			
-024	50.07			
				ECB 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX363[8.0]	Diln Fac:	1.087
Lab ID:	199042-003	Batch#:	131459
Matrix:	Soil	Sampled:	11/07/07
Units:	ug/Kg	Received:	11/07/07
Basis:	dry	Analyzed:	11/08/07

Moisture: 19%

Analyte	Result	RL	MDL
Freon 12	ND	13	0.72
Chloromethane	ND	13	0.85
Vinyl Chloride	ND	13	0.75
Bromomethane	ND	13	0.59
Chloroethane	ND	13	0.61
Trichlorofluoromethane	ND	6.7	0.69
Acetone	14 J	27	1.2
Freon 113	ND	6.7	0.82
1,1-Dichloroethene	ND	6.7	0.59
Methylene Chloride	3.1 J	27	0.54
Carbon Disulfide	ND	6.7	0.68
MTBE	ND	6.7	0.61
trans-1,2-Dichloroethene	ND	6.7	0.55
Vinyl Acetate	ND	67	0.48
1,1-Dichloroethane	ND	6.7	0.51
2-Butanone	2.2 J	13	0.67
cis-1,2-Dichloroethene	ND	6.7	0.54
2,2-Dichloropropane	ND	6.7	0.51
Chloroform	ND	6.7	0.49
Bromochloromethane	ND	6.7	0.32
1,1,1-Trichloroethane	ND	6.7	0.46
1,1-Dichloropropene	ND	6.7	0.48
Carbon Tetrachloride	ND	6.7	0.54
1,2-Dichloroethane	ND	6.7	0.50
Benzene	ND	6.7	0.41
Trichloroethene	ND	6.7	0.58
1,2-Dichloropropane	ND	6.7	0.53
Bromodichloromethane	ND	6.7	0.54
Dibromomethane	ND	6.7	0.48
4-Methyl-2-Pentanone	ND	13	0.34
cis-1,3-Dichloropropene	ND	6.7	0.42
Toluene	ND	6.7	0.55
trans-1,3-Dichloropropene	ND	6.7	0.35
1,1,2-Trichloroethane	ND	6.7	0.54
2-Hexanone	ND	13	0.57
1,3-Dichloropropane	ND	6.7	0.38
Tetrachloroethene	ND	6.7	0.67
Dibromochloromethane	ND	6.7	0.42
1,2-Dibromoethane	ND	6.7	0.31
Chlorobenzene	ND	6.7	0.37
1,1,1,2-Tetrachloroethane	ND	6.7	0.48
Ethylbenzene	ND	6.7	0.54
m,p-Xylenes	ND	6.7	1.2
o-Xylene	ND	6.7	0.69
Styrene	ND	6.7	0.62
Bromoform	ND	6.7	0.27
Isopropylbenzene	2.5 J	6.7	0.81
1,1,2,2-Tetrachloroethane	ND	6.7	0.36
1,2,3-Trichloropropane	ND	6.7	0.58
Propylbenzene	4.6 J	6.7	0.87

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX363[8.0]	Diln Fac:	1.087
Lab ID:	199042-003	Batch#:	131459
Matrix:	Soil	Sampled:	11/07/07
Units:	ug/Kg	Received:	11/07/07
Basis:	dry	Analyzed:	11/08/07

Analyte	Result	RL	MDL
Bromobenzene	ND	6.7	0.56
1,3,5-Trimethylbenzene	ND	6.7	0.90
2-Chlorotoluene	ND	6.7	0.76
4-Chlorotoluene	ND	6.7	0.44
tert-Butylbenzene	ND	6.7	1.1
1,2,4-Trimethylbenzene	ND	6.7	0.71
sec-Butylbenzene	1.7 J	6.7	1.2
para-Isopropyl Toluene	2.7 J	6.7	1.0
1,3-Dichlorobenzene	ND	6.7	0.74
1,4-Dichlorobenzene	ND	6.7	0.61
n-Butylbenzene	2.6 J	6.7	1.1
1,2-Dichlorobenzene	ND	6.7	0.50
1,2-Dibromo-3-Chloropropane	ND	6.7	0.82
1,2,4-Trichlorobenzene	ND	6.7	0.83
Hexachlorobutadiene	ND	6.7	1.2
Naphthalene	ND	6.7	0.64
1,2,3-Trichlorobenzene	ND	6.7	0.77

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	81	79-136
Toluene-d8	103	80-120
Bromofluorobenzene	116	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX364[6.0]	Diln Fac:	0.7246
Lab ID:	199042-004	Batch#:	131459
Matrix:	Soil	Sampled:	11/07/07
Units:	ug/Kg	Received:	11/07/07
Basis:	dry	Analyzed:	11/08/07

Moisture: 17%

Analyte	Result	RL	MDL
Freon 12	ND	8.7	0.47
Chloromethane	ND	8.7	0.55
Vinyl Chloride	ND	8.7	0.49
Bromomethane	ND	8.7	0.39
Chloroethane	ND	8.7	0.40
Trichlorofluoromethane	ND	4.4	0.45
Acetone	6.0 J	17	0.81
Freon 113	ND	4.4	0.54
1,1-Dichloroethene	ND	4.4	0.38
Methylene Chloride	2.2 J	17	0.35
Carbon Disulfide	ND	4.4	0.44
MTBE	ND	4.4	0.39
trans-1,2-Dichloroethene	ND	4.4	0.36
Vinyl Acetate	ND	44	0.31
1,1-Dichloroethane	ND	4.4	0.33
2-Butanone	0.55 J	8.7	0.43
cis-1,2-Dichloroethene	ND	4.4	0.35
2,2-Dichloropropane	ND	4.4	0.33
Chloroform	ND	4.4	0.32
Bromochloromethane	ND	4.4	0.21
1,1,1-Trichloroethane	ND	4.4	0.30
1,1-Dichloropropene	ND	4.4	0.32
Carbon Tetrachloride	ND	4.4	0.35
1,2-Dichloroethane	ND	4.4	0.33
Benzene	ND	4.4	0.27
Trichloroethene	ND	4.4	0.38
1,2-Dichloropropane	ND	4.4	0.35
Bromodichloromethane	ND	4.4	0.35
Dibromomethane	ND	4.4	0.31
4-Methyl-2-Pentanone	ND	8.7	0.22
cis-1,3-Dichloropropene	ND	4.4	0.28
Toluene	ND	4.4	0.36
trans-1,3-Dichloropropene	ND	4.4	0.23
1,1,2-Trichloroethane	ND	4.4	0.35
2-Hexanone	ND	8.7	0.37
1,3-Dichloropropane	ND	4.4	0.25
Tetrachloroethene	ND	4.4	0.44
Dibromochloromethane	ND	4.4	0.27
1,2-Dibromoethane	ND	4.4	0.20
Chlorobenzene	ND	4.4	0.24
1,1,1,2-Tetrachloroethane	ND	4.4	0.31
Ethylbenzene	ND	4.4	0.35
m,p-Xylenes	ND	4.4	0.81
o-Xylene	ND	4.4	0.45
Styrene	ND	4.4	0.41
Bromoform	ND	4.4	0.17
Isopropylbenzene	ND	4.4	0.53
1,1,2,2-Tetrachloroethane	ND	4.4	0.24
1,2,3-Trichloropropane	ND	4.4	0.38
Propylbenzene	ND	4.4	0.56

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

8.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX364[6.0]	Dil'n Fac:	0.7246
Lab ID:	199042-004	Batch#:	131459
Matrix:	Soil	Sampled:	11/07/07
Units:	ug/Kg	Received:	11/07/07
Basis:	dry	Analyzed:	11/08/07

Analyte	Result	RL	MDL
Bromobenzene	ND	4.4	0.36
1,3,5-Trimethylbenzene	ND	4.4	0.58
2-Chlorotoluene	ND	4.4	0.50
4-Chlorotoluene	ND	4.4	0.29
tert-Butylbenzene	ND	4.4	0.69
1,2,4-Trimethylbenzene	ND	4.4	0.46
sec-Butylbenzene	ND	4.4	0.79
para-Isopropyl Toluene	ND	4.4	0.68
1,3-Dichlorobenzene	ND	4.4	0.48
1,4-Dichlorobenzene	ND	4.4	0.40
n-Butylbenzene	ND	4.4	0.71
1,2-Dichlorobenzene	ND	4.4	0.33
1,2-Dibromo-3-Chloropropane	ND	4.4	0.53
1,2,4-Trichlorobenzene	ND	4.4	0.54
Hexachlorobutadiene	ND	4.4	0.78
Naphthalene	ND	4.4	0.41
1,2,3-Trichlorobenzene	ND	4.4	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	84	79-136
Toluene-d8	98	80-120
Bromofluorobenzene	108	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

8.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX365[6.5]	Dil'n Fac:	0.8929
Lab ID:	199042-005	Batch#:	131459
Matrix:	Soil	Sampled:	11/07/07
Units:	ug/Kg	Received:	11/07/07
Basis:	dry	Analyzed:	11/08/07

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.57
Chloromethane	ND	11	0.67
Vinyl Chloride	ND	11	0.59
Bromomethane	ND	11	0.47
Chloroethane	ND	11	0.48
Trichlorofluoromethane	ND	5.3	0.55
Acetone	5.0 J	21	0.98
Freon 113	ND	5.3	0.65
1,1-Dichloroethene	ND	5.3	0.46
Methylene Chloride	4.4 J	21	0.43
Carbon Disulfide	ND	5.3	0.54
MTBE	ND	5.3	0.48
trans-1,2-Dichloroethene	ND	5.3	0.43
Vinyl Acetate	ND	53	0.38
1,1-Dichloroethane	ND	5.3	0.40
2-Butanone	0.76 J	11	0.53
cis-1,2-Dichloroethene	ND	5.3	0.43
2,2-Dichloropropane	ND	5.3	0.40
Chloroform	ND	5.3	0.39
Bromochloromethane	ND	5.3	0.25
1,1,1-Trichloroethane	ND	5.3	0.36
1,1-Dichloropropene	ND	5.3	0.38
Carbon Tetrachloride	ND	5.3	0.43
1,2-Dichloroethane	ND	5.3	0.40
Benzene	ND	5.3	0.32
Trichloroethene	ND	5.3	0.46
1,2-Dichloropropane	ND	5.3	0.42
Bromodichloromethane	ND	5.3	0.43
Dibromomethane	ND	5.3	0.38
4-Methyl-2-Pentanone	ND	11	0.27
cis-1,3-Dichloropropene	ND	5.3	0.33
Toluene	ND	5.3	0.44
trans-1,3-Dichloropropene	ND	5.3	0.28
1,1,2-Trichloroethane	ND	5.3	0.42
2-Hexanone	ND	11	0.45
1,3-Dichloropropane	ND	5.3	0.30
Tetrachloroethene	ND	5.3	0.53
Dibromochloromethane	ND	5.3	0.33
1,2-Dibromoethane	ND	5.3	0.25
Chlorobenzene	ND	5.3	0.30
1,1,1,2-Tetrachloroethane	ND	5.3	0.38
Ethylbenzene	ND	5.3	0.43
m,p-Xylenes	ND	5.3	0.98
o-Xylene	ND	5.3	0.55
Styrene	ND	5.3	0.49
Bromoform	ND	5.3	0.21
Isopropylbenzene	ND	5.3	0.64
1,1,2,2-Tetrachloroethane	ND	5.3	0.29
1,2,3-Trichloropropane	ND	5.3	0.46
Propylbenzene	ND	5.3	0.69

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX365[6.5]	Diln Fac:	0.8929
Lab ID:	199042-005	Batch#:	131459
Matrix:	Soil	Sampled:	11/07/07
Units:	ug/Kg	Received:	11/07/07
Basis:	dry	Analyzed:	11/08/07

Analyte	Result	RL	MDL
Bromobenzene	ND	5.3	0.44
1,3,5-Trimethylbenzene	ND	5.3	0.71
2-Chlorotoluene	ND	5.3	0.60
4-Chlorotoluene	ND	5.3	0.35
tert-Butylbenzene	ND	5.3	0.84
1,2,4-Trimethylbenzene	ND	5.3	0.56
sec-Butylbenzene	ND	5.3	0.96
para-Isopropyl Toluene	ND	5.3	0.83
1,3-Dichlorobenzene	ND	5.3	0.59
1,4-Dichlorobenzene	ND	5.3	0.48
n-Butylbenzene	ND	5.3	0.86
1,2-Dichlorobenzene	ND	5.3	0.40
1,2-Dibromo-3-Chloropropane	ND	5.3	0.65
1,2,4-Trichlorobenzene	ND	5.3	0.66
Hexachlorobutadiene	ND	5.3	0.94
Naphthalene	ND	5.3	0.51
1,2,3-Trichlorobenzene	ND	5.3	0.61

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	81	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	122	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC414324	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131459
Units:	ug/Kg	Analyzed:	11/08/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.54
Chloromethane	ND	10	0.63
Vinyl Chloride	ND	10	0.56
Bromomethane	ND	10	0.44
Chloroethane	ND	10	0.46
Trichlorofluoromethane	ND	5.0	0.51
Acetone	1.1 J	20	0.92
Freon 113	ND	5.0	0.61
1,1-Dichloroethene	ND	5.0	0.44
Methylene Chloride	1.1 J	20	0.41
Carbon Disulfide	ND	5.0	0.51
MTBE	ND	5.0	0.45
trans-1,2-Dichloroethene	ND	5.0	0.41
Vinyl Acetate	ND	50	0.36
1,1-Dichloroethane	ND	5.0	0.38
2-Butanone	ND	10	0.50
cis-1,2-Dichloroethene	ND	5.0	0.40
2,2-Dichloropropane	ND	5.0	0.38
Chloroform	ND	5.0	0.37
Bromochloromethane	ND	5.0	0.24
1,1,1-Trichloroethane	ND	5.0	0.34
1,1-Dichloropropene	ND	5.0	0.36
Carbon Tetrachloride	ND	5.0	0.41
1,2-Dichloroethane	ND	5.0	0.37
Benzene	ND	5.0	0.30
Trichloroethene	ND	5.0	0.43
1,2-Dichloropropane	ND	5.0	0.40
Bromodichloromethane	ND	5.0	0.40
Dibromomethane	ND	5.0	0.35
4-Methyl-2-Pentanone	ND	10	0.25
cis-1,3-Dichloropropene	ND	5.0	0.32
Toluene	ND	5.0	0.41
trans-1,3-Dichloropropene	ND	5.0	0.26
1,1,2-Trichloroethane	ND	5.0	0.40
2-Hexanone	ND	10	0.43
1,3-Dichloropropane	ND	5.0	0.29
Tetrachloroethene	ND	5.0	0.50
Dibromochloromethane	ND	5.0	0.31
1,2-Dibromoethane	ND	5.0	0.23
Chlorobenzene	ND	5.0	0.28
1,1,1,2-Tetrachloroethane	ND	5.0	0.36
Ethylbenzene	ND	5.0	0.40
m,p-Xylenes	ND	5.0	0.93
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.47
Bromoform	ND	5.0	0.20
Isopropylbenzene	ND	5.0	0.60
1,1,2,2-Tetrachloroethane	ND	5.0	0.27
1,2,3-Trichloropropane	ND	5.0	0.44
Propylbenzene	ND	5.0	0.65
Bromobenzene	ND	5.0	0.41
1,3,5-Trimethylbenzene	ND	5.0	0.67

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC414324	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131459
Units:	ug/Kg	Analyzed:	11/08/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.57
4-Chlorotoluene	ND	5.0	0.33
tert-Butylbenzene	ND	5.0	0.79
1,2,4-Trimethylbenzene	ND	5.0	0.53
sec-Butylbenzene	ND	5.0	0.90
para-Isopropyl Toluene	ND	5.0	0.78
1,3-Dichlorobenzene	ND	5.0	0.55
1,4-Dichlorobenzene	ND	5.0	0.45
n-Butylbenzene	ND	5.0	0.81
1,2-Dichlorobenzene	ND	5.0	0.37
1,2-Dibromo-3-Chloropropane	ND	5.0	0.61
1,2,4-Trichlorobenzene	ND	5.0	0.62
Hexachlorobutadiene	ND	5.0	0.89
Naphthalene	ND	5.0	0.48
1,2,3-Trichlorobenzene	ND	5.0	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	84	79-136
Toluene-d8	100	80-120
Bromofluorobenzene	112	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

10.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC414325	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131459
Units:	ug/Kg	Analyzed:	11/08/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.21	109	74-131
Benzene	25.00	26.23	105	77-121
Trichloroethene	25.00	25.30	101	77-121
Toluene	25.00	27.00	108	79-122
Chlorobenzene	25.00	25.05	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	88	80-124
1,2-Dichloroethane-d4	80	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	109	80-122

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX363[8.0]	Batch#:	131459
MSS Lab ID:	199042-003	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	ug/Kg	Analyzed:	11/08/07
Basis:	dry		

Type: MS
Lab ID: QC414417
Moisture: 19%
Diln Fac: 0.9615

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5867	59.35	58.38	98	61-145
Benzene	<0.4090	59.35	50.34	85	57-123
Trichloroethene	<0.5776	59.35	51.33	86	52-141
Toluene	<0.5543	59.35	51.09	86	53-126
Chlorobenzene	<0.3746	59.35	46.91	79	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	79	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	115	80-122

Type: MSD
Lab ID: QC414418
Moisture: 19%
Diln Fac: 1.064

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	65.67	62.70	95	61-145	3	26
Benzene	65.67	53.28	81	57-123	4	25
Trichloroethene	65.67	55.05	84	52-141	3	26
Toluene	65.67	53.80	82	53-126	5	27
Chlorobenzene	65.67	49.87	76	49-121	4	27

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	80	79-136
Toluene-d8	100	80-120
Bromofluorobenzene	112	80-122

RPD= Relative Percent Difference

Level III for 199042 MSVOA Soil

Generated on 11/09/07 12:27.

CURTIS & TOMPKINS BFB TUNE FOR 199042 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887436786010 File : lju10 Time : 30-OCT-2007 15:38

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12308	19.39	
75	30% - 60% of mass 95	32098	50.58	
95		63464		
96	5% - 9% of mass 95	4233	6.67	
173	< 2% of mass 174	522	1.05	
174	> 50% and < 100% of mass 95	49762	78.41	
175	5% - 9% of mass 174	3542	7.12	
176	> 95% and < 101% of mass 174	48338	97.14	
177	5% - 9% of mass 176	3224	6.67	

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

887436786010

CURTIS & TOMPKINS BFB TUNE FOR 199042 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887449747002 File : lk802 Time : 08-NOV-2007 09:42

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	10238	15.71	
75	30% - 60% of mass 95	28061	43.06	
95		65173		
96	5% - 9% of mass 95	4184	6.42	
173	< 2% of mass 174	374	0.71	
174	> 50% and < 100% of mass 95	52821	81.05	
175	5% - 9% of mass 174	3678	6.96	
176	> 95% and < 101% of mass 174	50194	95.03	
177	5% - 9% of mass 176	3433	6.84	

Analyst: WNH Date: 11/08/07 Reviewer: LW Date: 11/08/07

887449747002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 MSVOA Soil: EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 887436786002 Date : 30-OCT-2007 17:42 Type : SOIL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	lju14	887436786014	2.5PPB	30-OCT-2007 17:42	S7425 (20000X), S7424 (20000X), S7365 (5000X)
L2	lju15	887436786015	5PPB	30-OCT-2007 18:14	S7425 (10000X), S7424 (10000X), S7365 (5000X)
L3	lju16	887436786016	10PPB	30-OCT-2007 18:47	S7425 (5000X), S7424 (5000X), S7365 (5000X)
L4	lju17	887436786017	20PPB	30-OCT-2007 19:19	S7417 (25000X), S7531 (25000X), S7365 (5000X)
L5	lju18	887436786018	50PPB	30-OCT-2007 19:51	S7417 (10000X), S7531 (10000X), S7365 (5000X)
L6	lju19	887436786019	60PPB	30-OCT-2007 20:23	S7417 (8333X), S7531 (8333X), S7365 (5000X)
L7	lju20	887436786020	75PPB	30-OCT-2007 20:56	S7417 (6667X), S7531 (6667X), S7365 (5000X)
L8	lju21	887436786021	100PPB	30-OCT-2007 21:28	S7417 (5000X), S7531 (5000X), S7365 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6356	0.5744	0.7385	0.8076	0.8088	0.8065	0.7544	AVRG		1.36562		0.7323	13	15	0.05	0.99	
Chloromethane		1.3230	1.2720	1.3574	1.3839	1.3471	1.3262	1.2206	AVRG		0.75837		1.3186	4	15	0.10	0.99	
Vinyl Chloride	1.3841	1.2800	1.2958	1.3439	1.4293	1.3724	1.3850	1.2895	AVRG		0.74212		1.3475	4	15	0.05	0.99	
Bromomethane		0.7816	0.7795	0.7243	0.7960	0.7932	0.7962	0.7472	AVRG		1.29199		0.7740	4	15	0.05	0.99	
Chloroethane		0.8583	0.8303	0.7991	0.8628	0.8445	0.8419	0.7758	AVRG		1.20426		0.8304	4	15	0.05	0.99	
Trichlorofluoromethane		1.6479	1.6562	1.5592	1.7356	1.7086	1.7288	1.6252	AVRG		0.60026		1.6659	4	15	0.05	0.99	
Acetone			0.2710	0.2658	0.2126	0.2399	0.2079	0.1885	AVRG		4.33023		0.2309	14	15	0.05	0.99	
Freon 113		1.0336	0.8471	0.7361	0.7825	0.7769	0.7636	0.7141	AVRG		1.23807		0.8077	13	15	0.05	0.99	
1,1-Dichloroethene		0.7866	0.5853	0.5145	0.5881	0.6054	0.6056	0.5888	AVRG		1.63765		0.6106	14	15	0.05	0.99	
Methylene Chloride			0.8144	0.7279	0.7450	0.7498	0.7380	0.6923	AVRG		1.34311		0.7445	5	15	0.05	0.99	
Carbon Disulfide		2.6215	2.5239	2.2249	2.3761	2.3561	2.3064	2.1720	AVRG		0.42217		2.3687	7	15	0.05	0.99	
MTBE		1.4417	1.4406	1.4464	1.6811	1.7151	1.7485	1.7119	AVRG		0.62583		1.5979	9	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6835	0.7132	0.6665	0.7078	0.7282	0.7248	0.6937	AVRG		1.42345		0.7025	3	15	0.05	0.99	
Vinyl Acetate		0.6667	0.7004	0.9370	1.0952	1.1373	1.1559	1.1318	LINR	3.29423	0.84369		0.9749	0.999	15	0.05	0.99	
1,1-Dichloroethane		1.4451	1.3960	1.2843	1.3630	1.3760	1.3553	1.2916	AVRG		0.73598		1.3587	4	15	0.10	0.99	
2-Butanone			0.2877	0.2674	0.2914	0.2920	0.3063	0.2963	AVRG		3.44618		0.2902	4	15	0.05	0.99	
2,2-Dichloropropane		1.1173	1.0992	1.0082	1.0917	1.1108	1.1017	1.0677	AVRG		0.92146		1.0852	3	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6665	0.6863	0.6777	0.7521	0.7807	0.7557	0.7345	AVRG		1.38517		0.7219	6	15	0.05	0.99	
Chloroform		1.3775	1.3748	1.2162	1.2723	1.2932	1.2725	1.2366	AVRG		0.77408		1.2919	5	15	0.05	0.99	
Bromochloromethane		0.3421	0.3475	0.3221	0.3390	0.3474	0.3454	0.3390	AVRG		2.93813		0.3404	3	15	0.05	0.99	
1,1,1-Trichloroethane		1.2560	1.2266	1.0895	1.1358	1.1688	1.1369	1.1025	AVRG		0.86249		1.1594	5	15	0.05	0.99	
1,1-Dichloropropene		0.5890	0.6140	0.5803	0.6869	0.7046	0.6977	0.6820	AVRG		1.53688		0.6507	8	15	0.05	0.99	
Carbon Tetrachloride		0.7121	0.7190	0.6299	0.7003	0.7014	0.6895	0.6737	AVRG		1.45052		0.6894	4	15	0.05	0.99	
1,2-Dichloroethane		0.6784	0.6419	0.5973	0.6131	0.6180	0.6047	0.5891	AVRG		1.61199		0.6203	5	15	0.05	0.99	
Benzene		2.2478	2.2492	1.9969	2.1758	2.1683	2.0912	1.9895	AVRG		0.46921		2.1312	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4757	0.4690	0.4415	0.4913	0.5008	0.4973	0.4848	AVRG		2.08303		0.4801	4	15	0.05	0.99	
1,2-Dichloropropane		0.4802	0.4848	0.4662	0.5074	0.5096	0.5019	0.4953	AVRG		2.03169		0.4922	3	15	0.05	0.99	
Bromodichloromethane		0.6196	0.6119	0.5542	0.6125	0.6161	0.6134	0.6016	AVRG		1.65506		0.6042	4	15	0.05	0.99	
Dibromomethane		0.2575	0.2564	0.2301	0.2448	0.2497	0.2449	0.2389	AVRG		4.06439		0.2460	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.3513	0.3956	0.4153	0.4653	0.4673	0.4853	0.4728	AVRG		2.29287		0.4361	11	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6185	0.6744	0.6721	0.7726	0.7833	0.7780	0.7608	AVRG		1.38350		0.7228	9	15	0.05	0.99	
Toluene		1.3914	1.4214	1.2814	1.4173	1.4415	1.4047	1.3572	AVRG		0.72055		1.3878	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5481	0.5930	0.5715	0.6572	0.6817	0.6860	0.6806	AVRG		1.58440		0.6312	9	15	0.05	0.99	
1,1,2-Trichloroethane		0.2325	0.2082	0.1986	0.2126	0.2138	0.2115	0.2089	AVRG		4.71063		0.2123	5	15	0.05	0.99	
2-Hexanone			0.2640	0.2820	0.3340	0.3390	0.3618	0.3474	AVRG		3.11156		0.3214	12	15	0.05	0.99	
1,3-Dichloropropane		0.7565	0.7457	0.7367	0.7512	0.7751	0.7619	0.7293	AVRG		1.33172		0.7509	2	15	0.05	0.99	
Tetrachloroethene		0.6162	0.6110	0.5551	0.6068	0.6206	0.6055	0.5934	AVRG		1.66335		0.6012	4	15	0.05	0.99	
Dibromochloromethane		0.4285	0.4330	0.4063	0.4398	0.4624	0.4534	0.4426	AVRG		2.28318		0.4380	4	15	0.05	0.99	
1,2-Dibromoethane		0.3431	0.3398	0.3182	0.3615	0.3650	0.3724	0.3626	AVRG		2.84254		0.3518	5	15	0.05	0.99	
Chlorobenzene		1.6946	1.7050	1.5384	1.6412	1.6838	1.6274	1.5720	AVRG		0.61070		1.6375	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.5745	0.5778	0.5115	0.5429	0.5637	0.5536	0.5376	AVRG		1.81266		0.5517	4	15	0.05	0.99	
Ethylbenzene		2.6736	2.9031	2.7050	2.9936	3.0521	2.9643	2.7765	AVRG		0.34881		2.8669	5	15	0.05	0.99	
m,p-Xylenes	0.9913	1.0776	1.1954	1.1107	1.2275	1.2596	1.2186	1.1631	AVRG		0.86543		1.1555	8	15	0.05	0.99	
o-Xylene		0.8571	0.9888	0.9634	1.1565	1.1982	1.1929	1.1680	AVRG		0.93025		1.0750	13	15	0.05	0.99	
Styrene		1.3964	1.6473	1.6136	1.8679	1.9458	1.9370	1.8823	AVRG		0.56956		1.7558	12	15	0.05	0.99	
Bromoform		0.2947	0.3096	0.3016	0.3363	0.3510	0.3603	0.3596	AVRG		3.02622		0.3304	9	15	0.10	0.99	
Isopropylbenzene		3.4178	3.8897	3.7870	4.4566	4.5843	4.3797	4.2705	AVRG		0.24318		4.1123	10	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9979	1.0049	0.9140	0.9409	0.9597	0.9293	0.9397	AVRG		1.04692		0.9552	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.9782	1.0343	0.9307	0.9640	0.9860	0.9705	0.9695	AVRG		1.02441		0.9762	3	15	0.05	0.99	
Propylbenzene		5.1030	5.6811	5.2346	5.8409	5.9023	5.4987	5.2158	AVRG		0.18193		5.4966	6	15	0.05	0.99	
Bromobenzene		1.1249	1.1101	1.0029	1.0932	1.1339	1.1025	1.1039	AVRG		0.91248		1.0959	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.3189	3.7621	3.5999	4.1254	4.2307	4.0306	3.9281	AVRG		0.25930		3.8565	8	15	0.05	0.99	
2-Chlorotoluene		3.6893	3.8899	3.5291	3.8769	3.9657	3.7628	3.7224	AVRG		0.26479		3.7766	4	15	0.05	0.99	
4-Chlorotoluene		3.0536	3.2984	3.0339	3.4276	3.5314	3.3519	3.3091	AVRG		0.30427		3.2866	6	15	0.05	0.99	
tert-Butylbenzene		2.7770	3.2554	3.1459	3.6803	3.7686	3.6167	3.5396	AVRG		0.29432		3.3976	10	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.5010	4.0463	3.7947	4.2558	4.3307	4.1229	3.9870	AVRG		0.24966		4.0055	7	15	0.05	0.99	
sec-Butylbenzene		4.7047	5.2731	5.0313	5.7427	5.8009	5.4711	5.1993	AVRG		0.18806		5.3176	7	15	0.05	0.99	
para-Isopropyl Toluene		3.7172	4.4274	4.2347	4.8549	4.9170	4.6837	4.5072	AVRG		0.22334		4.4774	9	15	0.05	0.99	
1,3-Dichlorobenzene		2.3472	2.3573	2.1469	2.3419	2.4125	2.2924	2.2964	AVRG		0.43224		2.3135	4	15	0.05	0.99	
1,4-Dichlorobenzene		2.5887	2.5265	2.2669	2.4073	2.4638	2.3332	2.3224	AVRG		0.41399		2.4155	5	15	0.05	0.99	
n-Butylbenzene		3.6688	4.1918	4.0838	4.6960	4.7569	4.4909	4.3248	AVRG		0.23169		4.3162	9	15	0.05	0.99	
1,2-Dichlorobenzene		2.0585	2.1184	1.9770	2.1276	2.1951	2.1074	2.0900	AVRG		0.47703		2.0963	3	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1785	0.1768	0.1750	0.1916	0.1915	0.1941	0.1963	AVRG		5.36879		0.1863	5	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.1929	1.2856	1.2655	1.5060	1.5614	1.5322	1.5548	AVRG		0.70719		1.4140	11	15	0.05	0.99	
Hexachlorobutadiene		0.9433	1.0042	0.9117	1.0054	1.0391	0.9951	0.9950	AVRG		1.01539		0.9848	4	15	0.05	0.99	
Naphthalene		2.0541	2.3485	2.6654	3.2712	3.3408	3.3679	3.3888	LINR	3.27229	0.28497		2.9195	0.999	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		1.2139	1.2834	1.2499	1.4503	1.4943	1.4713	1.4786	AVRG		0.72601		1.3774	9	15	0.05	0.99	
Dibromofluoromethane	0.4766	0.4677	0.4674	0.4605	0.4702	0.4567	0.4631	0.4528	AVRG		2.15348		0.4644	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3758	0.3907	0.3731	0.3786	0.3880	0.3791	0.3832	0.3761	AVRG		2.62751		0.3806	2	15	0.05	0.99	
Trifluorotoluene		0.8856	0.9148	0.7905	0.9040	0.9161	0.9103	0.8820	AVRG		1.12844		0.8862	5	15	0.05	0.99	
Toluene-d8	1.2230	1.2255	1.2302	1.2396	1.2390	1.2312	1.2333	1.2080	AVRG		0.81385		1.2287	1	15	0.05	0.99	
Bromofluorobenzene	0.8058	0.7996	0.8126	0.8158	0.8438	0.8579	0.8431	0.8601	AVRG		1.20508		0.8298	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-13	10.00	-22	20.00	1	50.00	10	60.00	10	75.00	10	100.0	3
Chloromethane			5.000	0	10.00	-4	20.00	3	50.00	5	60.00	2	75.00	1	100.0	-7
Vinyl Chloride	2.500	3	5.000	-5	10.00	-4	20.00	0	50.00	6	60.00	2	75.00	3	100.0	-4
Bromomethane			5.000	1	10.00	1	20.00	-6	50.00	3	60.00	2	75.00	3	100.0	-3
Chloroethane			5.000	3	10.00	0	20.00	-4	50.00	4	60.00	2	75.00	1	100.0	-7
Trichlorofluoromethane			5.000	-1	10.00	-1	20.00	-6	50.00	4	60.00	3	75.00	4	100.0	-2
Acetone					10.00	17	20.00	15	50.00	-8	60.00	4	75.00	-10	100.0	-18
Freon 113			5.000	28	10.00	5	20.00	-9	50.00	-3	60.00	-4	75.00	-5	100.0	-12
1,1-Dichloroethene			5.000	29	10.00	-4	20.00	-16	50.00	-4	60.00	-1	75.00	-1	100.0	-4
Methylene Chloride					10.00	9	20.00	-2	50.00	0	60.00	1	75.00	-1	100.0	-7
Carbon Disulfide			5.000	11	10.00	7	20.00	-6	50.00	0	60.00	-1	75.00	-3	100.0	-8
MTBE			5.000	-10	10.00	-10	20.00	-9	50.00	5	60.00	7	75.00	9	100.0	7
trans-1,2-Dichloroethene			5.000	-3	10.00	2	20.00	-5	50.00	1	60.00	4	75.00	3	100.0	-1
Vinyl Acetate			5.000	22	10.00	-8	20.00	-4	50.00	-1	60.00	1	75.00	2	100.0	-1
1,1-Dichloroethane			5.000	6	10.00	3	20.00	-5	50.00	0	60.00	1	75.00	0	100.0	-5
2-Butanone					10.00	-1	20.00	-8	50.00	0	60.00	1	75.00	6	100.0	2
2,2-Dichloropropane			5.000	3	10.00	1	20.00	-7	50.00	1	60.00	2	75.00	2	100.0	-2
cis-1,2-Dichloroethene			5.000	-8	10.00	-5	20.00	-6	50.00	4	60.00	8	75.00	5	100.0	2
Chloroform			5.000	7	10.00	6	20.00	-6	50.00	-2	60.00	0	75.00	-2	100.0	-4
Bromochloromethane			5.000	1	10.00	2	20.00	-5	50.00	0	60.00	2	75.00	1	100.0	0
1,1,1-Trichloroethane			5.000	8	10.00	6	20.00	-6	50.00	-2	60.00	1	75.00	-2	100.0	-5
1,1-Dichloropropene			5.000	-9	10.00	-6	20.00	-11	50.00	6	60.00	8	75.00	7	100.0	5
Carbon Tetrachloride			5.000	3	10.00	4	20.00	-9	50.00	2	60.00	2	75.00	0	100.0	-2
1,2-Dichloroethane			5.000	9	10.00	3	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-5
Benzene			5.000	5	10.00	6	20.00	-6	50.00	2	60.00	2	75.00	-2	100.0	-7
Trichloroethene			5.000	-1	10.00	-2	20.00	-8	50.00	2	60.00	4	75.00	4	100.0	1
1,2-Dichloropropane			5.000	-2	10.00	-1	20.00	-5	50.00	3	60.00	4	75.00	2	100.0	1
Bromodichloromethane			5.000	3	10.00	1	20.00	-8	50.00	1	60.00	2	75.00	2	100.0	0
Dibromomethane			5.000	5	10.00	4	20.00	-6	50.00	-1	60.00	1	75.00	0	100.0	-3
4-Methyl-2-Pentanone			5.000	-19	10.00	-9	20.00	-5	50.00	7	60.00	7	75.00	11	100.0	8
cis-1,3-Dichloropropene			5.000	-14	10.00	-7	20.00	-7	50.00	7	60.00	8	75.00	8	100.0	5
Toluene			5.000	0	10.00	2	20.00	-8	50.00	2	60.00	4	75.00	1	100.0	-2
trans-1,3-Dichloropropene			5.000	-13	10.00	-6	20.00	-9	50.00	4	60.00	8	75.00	9	100.0	8
1,1,2-Trichloroethane			5.000	10	10.00	-2	20.00	-6	50.00	0	60.00	1	75.00	0	100.0	-2
2-Hexanone					10.00	-18	20.00	-12	50.00	4	60.00	5	75.00	13	100.0	8
1,3-Dichloropropane			5.000	1	10.00	-1	20.00	-2	50.00	0	60.00	3	75.00	1	100.0	-3
Tetrachloroethene			5.000	2	10.00	2	20.00	-8	50.00	1	60.00	3	75.00	1	100.0	-1
Dibromochloromethane			5.000	-2	10.00	-1	20.00	-7	50.00	0	60.00	6	75.00	4	100.0	1
1,2-Dibromoethane			5.000	-2	10.00	-3	20.00	-10	50.00	3	60.00	4	75.00	6	100.0	3
Chlorobenzene			5.000	3	10.00	4	20.00	-6	50.00	0	60.00	3	75.00	-1	100.0	-4
1,1,1,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-7	50.00	-2	60.00	2	75.00	0	100.0	-3
Ethylbenzene			5.000	-7	10.00	1	20.00	-6	50.00	4	60.00	6	75.00	3	100.0	-3

887436786002

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	-14	10.00	-7	20.00	3	40.00	-4	100.0	6	120.0	9	150.0	5	200.0	1
o-Xylene			5.000	-20	10.00	-8	20.00	-10	50.00	8	60.00	11	75.00	11	100.0	9
Styrene			5.000	-20	10.00	-6	20.00	-8	50.00	6	60.00	11	75.00	10	100.0	7
Bromoform			5.000	-11	10.00	-6	20.00	-9	50.00	2	60.00	6	75.00	9	100.0	9
Isopropylbenzene			5.000	-17	10.00	-5	20.00	-8	50.00	8	60.00	11	75.00	7	100.0	4
1,1,2,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-2
1,2,3-Trichloropropane			5.000	0	10.00	6	20.00	-5	50.00	-1	60.00	1	75.00	-1	100.0	-1
Propylbenzene			5.000	-7	10.00	3	20.00	-5	50.00	6	60.00	7	75.00	0	100.0	-5
Bromobenzene			5.000	3	10.00	1	20.00	-8	50.00	0	60.00	3	75.00	1	100.0	1
1,3,5-Trimethylbenzene			5.000	-14	10.00	-2	20.00	-7	50.00	7	60.00	10	75.00	5	100.0	2
2-Chlorotoluene			5.000	-2	10.00	3	20.00	-7	50.00	3	60.00	5	75.00	0	100.0	-1
4-Chlorotoluene			5.000	-7	10.00	0	20.00	-8	50.00	4	60.00	7	75.00	2	100.0	1
tert-Butylbenzene			5.000	-18	10.00	-4	20.00	-7	50.00	8	60.00	11	75.00	6	100.0	4
1,2,4-Trimethylbenzene			5.000	-13	10.00	1	20.00	-5	50.00	6	60.00	8	75.00	3	100.0	0
sec-Butylbenzene			5.000	-12	10.00	-1	20.00	-5	50.00	8	60.00	9	75.00	3	100.0	-2
para-Isopropyl Toluene			5.000	-17	10.00	-1	20.00	-5	50.00	8	60.00	10	75.00	5	100.0	1
1,3-Dichlorobenzene			5.000	1	10.00	2	20.00	-7	50.00	1	60.00	4	75.00	-1	100.0	-1
1,4-Dichlorobenzene			5.000	7	10.00	5	20.00	-6	50.00	0	60.00	2	75.00	-3	100.0	-4
n-Butylbenzene			5.000	-15	10.00	-3	20.00	-5	50.00	9	60.00	10	75.00	4	100.0	0
1,2-Dichlorobenzene			5.000	-2	10.00	1	20.00	-6	50.00	1	60.00	5	75.00	1	100.0	0
1,2-Dibromo-3-Chloropropane			5.000	-4	10.00	-5	20.00	-6	50.00	3	60.00	3	75.00	4	100.0	5
1,2,4-Trichlorobenzene			5.000	-16	10.00	-9	20.00	-11	50.00	7	60.00	10	75.00	8	100.0	10
Hexachlorobutadiene			5.000	-4	10.00	2	20.00	-7	50.00	2	60.00	6	75.00	1	100.0	1
Naphthalene			5.000	24	10.00	0	20.00	-8	50.00	0	60.00	1	75.00	0	100.0	0
1,2,3-Trichlorobenzene			5.000	-12	10.00	-7	20.00	-9	50.00	5	60.00	8	75.00	7	100.0	7
Dibromofluoromethane	50.00	3	50.00	1	50.00	1	50.00	-1	50.00	1	50.00	-2	50.00	0	50.00	-2
1,2-Dichloroethane-d4	50.00	-1	50.00	3	50.00	-2	50.00	-1	50.00	2	50.00	0	50.00	1	50.00	-1
Trifluorotoluene			5.000	0	10.00	3	20.00	-11	50.00	2	60.00	3	75.00	3	100.0	0
Toluene-d8	50.00	0	50.00	0	50.00	0	50.00	1	50.00	1	50.00	0	50.00	0	50.00	-2
Bromofluorobenzene	50.00	-3	50.00	-4	50.00	-2	50.00	-2	50.00	2	50.00	3	50.00	2	50.00	4

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

887436786002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199042 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 887436786002 Cal Date : 30-OCT-2007 Type : SOIL

ICV 887436786022 (lju22 30-OCT-2007) stds: S7415 (10000X), S7365 (5000X)
ICV 887436786023 (lju23 30-OCT-2007) stds: S7498 (10000X), S7480 (10000X), S7365 (5000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	887436786022	0.7323	0.8362	25.00	28.55	ug/L	14	20	
Chloromethane	887436786022	1.3186	1.2816	25.00	24.30	ug/L	-3	20	
Vinyl Chloride	887436786022	1.3475	1.3148	25.00	24.39	ug/L	-2	20	
Bromomethane	887436786022	0.7740	0.7171	25.00	23.16	ug/L	-7	20	
Chloroethane	887436786022	0.8304	0.7894	25.00	23.77	ug/L	-5	20	
Trichlorofluoromethane	887436786022	1.6659	1.4950	25.00	22.43	ug/L	-10	20	
Acetone	887436786023	0.2309	0.2624	25.00	28.41	ug/L	14	30	m
Freon 113	887436786023	0.8077	0.6899	25.00	21.35	ug/L	-15	20	
1,1-Dichloroethene	887436786023	0.6106	0.6325	25.00	25.89	ug/L	4	20	
Methylene Chloride	887436786023	0.7445	0.6865	25.00	23.05	ug/L	-8	20	
Carbon Disulfide	887436786023	2.3687	2.0577	25.00	21.72	ug/L	-13	20	
MTBE	887436786023	1.5979	1.4954	25.00	23.40	ug/L	-6	20	
trans-1,2-Dichloroethene	887436786023	0.7025	0.6277	25.00	22.34	ug/L	-11	20	
Vinyl Acetate	887436786023	0.9749	0.7761	25.00	19.66	ug/L	-21	30	
1,1-Dichloroethane	887436786023	1.3587	1.2192	25.00	22.43	ug/L	-10	20	
2-Butanone	887436786023	0.2902	0.2603	25.00	22.43	ug/L	-10	30	
2,2-Dichloropropane	887436786023	1.0852	0.9360	25.00	21.56	ug/L	-14	20	
cis-1,2-Dichloroethene	887436786023	0.7219	0.6775	25.00	23.46	ug/L	-6	20	
Chloroform	887436786023	1.2919	1.1633	25.00	22.51	ug/L	-10	20	
Bromochloromethane	887436786023	0.3404	0.3070	25.00	22.55	ug/L	-10	20	
1,1,1-Trichloroethane	887436786023	1.1594	1.0302	25.00	22.21	ug/L	-11	20	
1,1-Dichloropropene	887436786023	0.6507	0.5837	25.00	22.43	ug/L	-10	20	
Carbon Tetrachloride	887436786023	0.6894	0.6184	25.00	22.42	ug/L	-10	20	
1,2-Dichloroethane	887436786023	0.6203	0.5579	25.00	22.48	ug/L	-10	20	
Benzene	887436786023	2.1312	1.9753	25.00	23.17	ug/L	-7	20	
Trichloroethene	887436786023	0.4801	0.4454	25.00	23.20	ug/L	-7	20	
1,2-Dichloropropane	887436786023	0.4922	0.4448	25.00	22.59	ug/L	-10	20	
Bromodichloromethane	887436786023	0.6042	0.5743	25.00	23.76	ug/L	-5	20	
Dibromomethane	887436786023	0.2460	0.2269	25.00	23.06	ug/L	-8	20	
4-Methyl-2-Pentanone	887436786023	0.4361	0.4009	25.00	22.98	ug/L	-8	30	
cis-1,3-Dichloropropene	887436786023	0.7228	0.6784	25.00	23.46	ug/L	-6	20	
Toluene	887436786023	1.3878	1.2611	25.00	22.72	ug/L	-9	20	
trans-1,3-Dichloropropene	887436786023	0.6312	0.5379	25.00	21.31	ug/L	-15	20	
1,1,2-Trichloroethane	887436786023	0.2123	0.1952	25.00	22.99	ug/L	-8	20	
2-Hexanone	887436786023	0.3214	0.2741	25.00	21.32	ug/L	-15	30	
1,3-Dichloropropane	887436786023	0.7509	0.7162	25.00	23.84	ug/L	-5	20	
Tetrachloroethene	887436786023	0.6012	0.5359	25.00	22.29	ug/L	-11	20	
Dibromochloromethane	887436786023	0.4380	0.3989	25.00	22.77	ug/L	-9	20	
1,2-Dibromoethane	887436786023	0.3518	0.3322	25.00	23.60	ug/L	-6	20	
Chlorobenzene	887436786023	1.6375	1.4751	25.00	22.52	ug/L	-10	20	
1,1,1,2-Tetrachloroethane	887436786023	0.5517	0.5050	25.00	22.88	ug/L	-8	20	
Ethylbenzene	887436786023	2.8669	2.7071	25.00	23.61	ug/L	-6	20	
m,p-Xylenes	887436786023	1.1555	1.0919	50.00	47.25	ug/L	-6	20	
o-Xylene	887436786023	1.0750	0.9951	25.00	23.14	ug/L	-7	20	
Styrene	887436786023	1.7558	1.6928	25.00	24.10	ug/L	-4	20	
Bromoform	887436786023	0.3304	0.3051	25.00	23.08	ug/L	-8	20	
Isopropylbenzene	887436786023	4.1123	3.6296	25.00	22.07	ug/L	-12	20	

887436786002 ICVs

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	887436786023	0.9552	0.8942	25.00	23.40	ug/L	-6	20	
1,2,3-Trichloropropane	887436786023	0.9762	0.9068	25.00	23.22	ug/L	-7	20	
Propylbenzene	887436786023	5.4966	5.2247	25.00	23.76	ug/L	-5	20	
Bromobenzene	887436786023	1.0959	1.0469	25.00	23.88	ug/L	-4	20	
1,3,5-Trimethylbenzene	887436786023	3.8565	3.7084	25.00	24.04	ug/L	-4	20	
2-Chlorotoluene	887436786023	3.7766	3.5473	25.00	23.48	ug/L	-6	20	
4-Chlorotoluene	887436786023	3.2866	3.0381	25.00	23.11	ug/L	-8	20	
tert-Butylbenzene	887436786023	3.3976	3.2191	25.00	23.69	ug/L	-5	20	
1,2,4-Trimethylbenzene	887436786023	4.0055	3.9444	25.00	24.62	ug/L	-2	20	
sec-Butylbenzene	887436786023	5.3176	5.0474	25.00	23.73	ug/L	-5	20	
para-Isopropyl Toluene	887436786023	4.4774	4.1657	25.00	23.26	ug/L	-7	20	
1,3-Dichlorobenzene	887436786023	2.3135	2.0926	25.00	22.61	ug/L	-10	20	
1,4-Dichlorobenzene	887436786023	2.4155	2.1602	25.00	22.36	ug/L	-11	20	
n-Butylbenzene	887436786023	4.3162	4.1127	25.00	23.82	ug/L	-5	20	
1,2-Dichlorobenzene	887436786023	2.0963	1.9303	25.00	23.02	ug/L	-8	20	
1,2-Dibromo-3-Chloropropane	887436786023	0.1863	0.1720	25.00	23.09	ug/L	-8	20	
1,2,4-Trichlorobenzene	887436786023	1.4140	1.2865	25.00	22.75	ug/L	-9	20	
Hexachlorobutadiene	887436786023	0.9848	0.9300	25.00	23.61	ug/L	-6	20	
Naphthalene	887436786023	2.9195	2.7580	25.00	22.92	ug/L	-8	20	
1,2,3-Trichlorobenzene	887436786023	1.3774	1.2527	25.00	22.74	ug/L	-9	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : 35PPB IDF : 1.0
Seqnum : 887449747003.1 File : lk803 Time : 08-NOV-2007 10:12
Cal : 887436786002 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (14290X), S7531 (14290X), S7365 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7323	0.6886	35.00	32.91	ug/L	-6	20	0.0500	
Chloromethane	1.3186	1.2512	35.00	33.21	ug/L	-5	20	0.1000	
Vinyl Chloride	1.3475	1.2653	35.00	32.87	ug/L	-6	20	0.0500	
Bromomethane	0.7740	0.7018	35.00	31.74	ug/L	-9	20	0.0500	
Chloroethane	0.8304	0.7787	35.00	32.82	ug/L	-6	20	0.0500	
Trichlorofluoromethane	1.6659	1.2196	35.00	25.62	ug/L	**-27**	20	0.0500	c- ***
Acetone	0.2309	0.2451	35.00	37.15	ug/L	6	30	0.0500	m
Freon 113	0.8077	0.6677	35.00	28.93	ug/L	-17	20	0.0500	
1,1-Dichloroethene	0.6106	0.5803	35.00	33.26	ug/L	-5	20	0.0500	
Methylene Chloride	0.7445	0.8021	35.00	37.71	ug/L	8	20	0.0500	
Carbon Disulfide	2.3687	2.0118	35.00	29.73	ug/L	-15	20	0.0500	
MTBE	1.5979	1.7265	35.00	37.82	ug/L	8	20	0.0500	
trans-1,2-Dichloroethene	0.7025	0.6092	35.00	30.35	ug/L	-13	20	0.0500	
Vinyl Acetate	0.9749	1.0247	35.00	33.55	ug/L	-4	30	0.0500	
1,1-Dichloroethane	1.3587	1.1560	35.00	29.78	ug/L	-15	20	0.1000	
2-Butanone	0.2902	0.3031	35.00	36.55	ug/L	4	30	0.0500	
2,2-Dichloropropane	1.0852	0.9047	35.00	29.18	ug/L	-17	20	0.0500	
cis-1,2-Dichloroethene	0.7219	0.6645	35.00	32.22	ug/L	-8	20	0.0500	
Chloroform	1.2919	1.0532	35.00	28.53	ug/L	-18	20	0.0500	
Bromochloromethane	0.3404	0.3080	35.00	31.67	ug/L	-10	20	0.0500	
1,1,1-Trichloroethane	1.1594	0.8819	35.00	26.62	ug/L	**-24**	20	0.0500	c- ***
1,1-Dichloropropene	0.6507	0.5643	35.00	30.35	ug/L	-13	20	0.0500	
Carbon Tetrachloride	0.6894	0.4785	35.00	24.29	ug/L	**-31**	20	0.0500	c- ***
1,2-Dichloroethane	0.6203	0.4753	35.00	26.82	ug/L	**-23**	20	0.0500	c- ***
Benzene	2.1312	1.8773	35.00	30.83	ug/L	-12	20	0.0500	
Trichloroethene	0.4801	0.4195	35.00	30.58	ug/L	-13	20	0.0500	
1,2-Dichloropropane	0.4922	0.4630	35.00	32.93	ug/L	-6	20	0.0500	
Bromodichloromethane	0.6042	0.4958	35.00	28.72	ug/L	-18	20	0.0500	
Dibromomethane	0.2460	0.2116	35.00	30.10	ug/L	-14	20	0.0500	
4-Methyl-2-Pentanone	0.4361	0.4626	35.00	37.12	ug/L	6	30	0.0500	
cis-1,3-Dichloropropene	0.7228	0.7007	35.00	33.93	ug/L	-3	20	0.0500	
Toluene	1.3878	1.2870	35.00	32.46	ug/L	-7	20	0.0500	
trans-1,3-Dichloropropene	0.6312	0.6125	35.00	33.97	ug/L	-3	20	0.0500	
1,1,2-Trichloroethane	0.2123	0.2046	35.00	33.74	ug/L	-4	20	0.0500	
2-Hexanone	0.3214	0.3255	35.00	35.45	ug/L	1	30	0.0500	
1,3-Dichloropropane	0.7509	0.6862	35.00	31.99	ug/L	-9	20	0.0500	
Tetrachloroethene	0.6012	0.4676	35.00	27.22	ug/L	**-22**	20	0.0500	c- ***
Dibromochloromethane	0.4380	0.3452	35.00	27.59	ug/L	**-21**	20	0.0500	c- ***
1,2-Dibromoethane	0.3518	0.3428	35.00	34.11	ug/L	-3	20	0.0500	
Chlorobenzene	1.6375	1.4297	35.00	30.56	ug/L	-13	20	0.3000	
1,1,1,2-Tetrachloroethane	0.5517	0.4399	35.00	27.91	ug/L	-20	20	0.0500	
Ethylbenzene	2.8669	2.6261	35.00	32.06	ug/L	-8	20	0.0500	
m,p-Xylenes	1.1555	1.0775	70.00	65.27	ug/L	-7	20	0.0500	
o-Xylene	1.0750	1.0276	35.00	33.46	ug/L	-4	20	0.0500	
Styrene	1.7558	1.6937	35.00	33.76	ug/L	-4	20	0.0500	
Bromoform	0.3304	0.2768	35.00	29.32	ug/L	-16	20	0.1000	
Isopropylbenzene	4.1123	4.1683	35.00	35.48	ug/L	1	20	0.0500	
1,1,2,2-Tetrachloroethane	0.9552	0.9985	35.00	36.59	ug/L	5	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9762	0.9787	35.00	35.09	ug/L	0	20	0.0500	
Propylbenzene	5.4966	5.5406	35.00	35.28	ug/L	1	20	0.0500	
Bromobenzene	1.0959	1.0149	35.00	32.41	ug/L	-7	20	0.0500	
1,3,5-Trimethylbenzene	3.8565	3.8734	35.00	35.15	ug/L	0	20	0.0500	
2-Chlorotoluene	3.7766	3.6548	35.00	33.87	ug/L	-3	20	0.0500	
4-Chlorotoluene	3.2866	3.3371	35.00	35.54	ug/L	2	20	0.0500	
tert-Butylbenzene	3.3976	3.3130	35.00	34.13	ug/L	-2	20	0.0500	
1,2,4-Trimethylbenzene	4.0055	3.9493	35.00	34.51	ug/L	-1	20	0.0500	
sec-Butylbenzene	5.3176	5.1684	35.00	34.02	ug/L	-3	20	0.0500	
para-Isopropyl Toluene	4.4774	4.3305	35.00	33.85	ug/L	-3	20	0.0500	
1,3-Dichlorobenzene	2.3135	2.1397	35.00	32.37	ug/L	-8	20	0.0500	
1,4-Dichlorobenzene	2.4155	2.2182	35.00	32.14	ug/L	-8	20	0.0500	
n-Butylbenzene	4.3162	4.2610	35.00	34.55	ug/L	-1	20	0.0500	
1,2-Dichlorobenzene	2.0963	1.9784	35.00	33.03	ug/L	-6	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1863	0.1917	35.00	36.02	ug/L	3	20	0.0500	
1,2,4-Trichlorobenzene	1.4140	1.4801	35.00	36.63	ug/L	5	20	0.0500	
Hexachlorobutadiene	0.9848	0.8592	35.00	30.53	ug/L	-13	20	0.0500	
Naphthalene	2.9195	3.3136	35.00	36.32	ug/L	4	20	0.0500	
1,2,3-Trichlorobenzene	1.3774	1.3459	35.00	34.20	ug/L	-2	20	0.0500	
Dibromofluoromethane	0.4644	0.4202	50.00	45.24	ug/L	-10	20	0.0500	
1,2-Dichloroethane-d4	0.3806	0.3203	50.00	42.08	ug/L	-16	20	0.0500	
Trifluorotoluene	0.8862	0.7714	35.00	30.47	ug/L	-13	20	0.0500	
Toluene-d8	1.2287	1.2732	50.00	51.81	ug/L	4	20	0.0500	
Bromofluorobenzene	0.8298	0.9370	50.00	56.46	ug/L	13	20	0.0500	

ISTD (ICAL lju18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	382859	400105	4.50	9.86	9.86	0.00
1,4-Difluorobenzene	557566	600965	7.78	10.71	10.71	0.00
Chlorobenzene-d5	546470	618874	13.25	13.84	13.84	0.00
1,4-Dichlorobenzene-d4	381863	393911	3.16	16.35	16.35	0.00

Analyst: WNH Date: 11/09/07 Reviewer: ACM Date: 11/09/07

-=low bias c=CCV m=manual integration

887449747003.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 887449747

Date : 11/08/07 Reference : lju18
Sequence : MSVOA12 lk8 Analyzed : 10/30/07 19:51

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	382859	9.86	557566	10.71	546470	13.84	381863	16.35
		LOWER LIMIT	191430	9.36	278783	10.21	273235	13.34	190932	15.85
		UPPER LIMIT	765718	10.36	1115132	11.21	1092940	14.34	763726	16.85
003	CCV	35PPB	400105	9.86	600965	10.71	618874	13.84	393911	16.35
004	LCS	QC414325	355108	9.85	527228	10.71	531069	13.84	342555	16.34
006	BLANK	QC414324	334246	9.86	527671	10.71	528334	13.84	305034	16.34
007	SAMPLE	199003-010	291433	9.85	427371	10.71	495844	13.84	368122	16.34
008	SAMPLE	199003-005	275734	9.85	391437	10.71	480625	13.84	349064	16.35
009	SAMPLE	198921-002	338059	9.86	532885	10.71	503293	13.84	250784	16.35
011	SAMPLE	199003-005	294033	9.85	433073	10.71	497924	13.84	350935	16.34
012	SAMPLE	199003-010	343240	9.85	513506	10.71	554712	13.84	372717	16.34
013	SAMPLE	199040-001	475364	9.86	772487	10.71	761266	13.84	444369	16.34
014	MSS	199042-003	445328	9.86	726474	10.71	744086	13.84	442600	16.34
015	SAMPLE	199042-004	454079	9.86	739340	10.71	729885	13.84	438321	16.34
016	SAMPLE	199042-005	459343	9.86	758935	10.71	768696	13.84	451402	16.35
017	MS	QC414417	513485	9.86	807427	10.71	811342	13.84	493538	16.35
018	MSD	QC414418	526538	9.86	826379	10.71	818153	13.84	499124	16.34
020	PREPBLK	QC414494	404539	9.85	625561	10.71	629650	13.84	385599	16.35
021	SAMPLE	199075-001	478844	9.86	782318	10.71	739263	13.84	416164	16.35
022	SAMPLE	199075-002	435673	9.86	722164	10.71	689257	13.84	393022	16.35
023	SAMPLE	199032-001	374405	9.86	602215	10.71	594532	13.84	348920	16.35

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887436786

Instrument : MSVOA12
Method : EPA 8260B
Begun : 10/30/07 07:46
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	lju01	X	IB			10/30/07 07:46	1.0	1
002	lju02	X	BFB			10/30/07 10:13	1.0	2
003	lju03	X	25PPB			10/30/07 10:42	1.0	3 4 1
004	lju04	X	QC412874	Soil	131099	10/30/07 11:23	1.0	5 6 7 8 1
005	lju05	X	QC412875	Soil	131099	10/30/07 11:55	1.0	5 6 7 8 1
006	lju06	X	BFB			10/30/07 12:56	1.0	2
007	lju07	X	30PPB			10/30/07 13:23	1.0	3 4 1
008	lju08	X	QC412874	Soil	131099	10/30/07 13:55	1.0	5 6 7 8 1
009	lju09	X	QC412875	Soil	131099	10/30/07 14:27	1.0	5 6 7 8 1
010	lju10	TUN	BFB			10/30/07 15:38	1.0	2
011	lju11	X	LP			10/30/07 16:05	1.0	1
012	lju12	X	IB			10/30/07 16:37	1.0	1
013	lju13	IB	CALIB			10/30/07 17:10	1.0	1
014	lju14	ICAL	2.5PPB			10/30/07 17:42	1.0	9 10 1
015	lju15	ICAL	5PPB			10/30/07 18:14	1.0	9 10 1
016	lju16	ICAL	10PPB			10/30/07 18:47	1.0	9 10 1
017	lju17	ICAL	20PPB			10/30/07 19:19	1.0	3 11 1
018	lju18	ICAL	50PPB			10/30/07 19:51	1.0	3 11 1
019	lju19	ICAL	60PPB			10/30/07 20:23	1.0	3 11 1
020	lju20	ICAL	75PPB			10/30/07 20:56	1.0	3 11 1
021	lju21	ICAL	100PPB			10/30/07 21:28	1.0	3 11 1
022	lju22	ICV	25PPB			10/30/07 22:01	1.0	6 1
023	lju23	ICV	25PPB			10/30/07 22:33	1.0	7 5 1
024	lju24	X	IB			10/30/07 23:05	1.0	1
025	lju25	X	IB			10/30/07 23:38	1.0	1
026	lju26	X	IB			10/31/07 00:10	1.0	1

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

Standards used: 1=S7365 2=S6497 3=S7417 4=S7296 5=S7480 6=S7415 7=S7498 8=S7000 9=S7425 10=S7424 11=S7531

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887449747

Instrument : MSVOA12
Method : EPA 8260B

Begun : 11/08/07 07:47
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	lk801	X	IB				11/08/07 07:47	1.0	1	
002	lk802	TUN	BFB				11/08/07 09:42	1.0	2	
003	lk803	CCV	35PPB				11/08/07 10:12	1.0	3 4 1	
004	lk804	LCS	QC414325		Soil	131459	11/08/07 10:44	1.0	5 6 7 8 1	
005	lk805	X	IB				11/08/07 11:17	1.0	1	
006	lk806	BLANK	QC414324		Soil	131459	11/08/07 11:49	1.0	1	
007	lk807	SAMPLE	199003-010	M	Soil	131459	11/08/07 12:22	83.33	8 1	1:TMB124=130
008	lk808	SAMPLE	199003-005	M	Soil	131459	11/08/07 12:54	50.0	8 1	1:TMB124=120
009	lk809	SAMPLE	198921-002		Miscell.	131459	11/08/07 13:26	5.556	1	
010	lk810	X	IB				11/08/07 13:58	1.0	1	
011	lk811	SAMPLE	199003-005	M	Soil	131459	11/08/07 14:31	83.33	8 1	
012	lk812	SAMPLE	199003-010	M	Soil	131459	11/08/07 15:03	125.0	8 1	
013	lk813	SAMPLE	199040-001		Soil	131459	11/08/07 15:35	0.9434	1	
014	lk814	MSS	199042-003		Soil	131459	11/08/07 16:08	1.087	1	
015	lk815	SAMPLE	199042-004		Soil	131459	11/08/07 16:40	0.7246	1	
016	lk816	SAMPLE	199042-005		Soil	131459	11/08/07 17:12	0.8929	1	
017	lk817	MS	QC414417		Soil	131459	11/08/07 17:44	0.9615	5 7 6 1	
018	lk818	MSD	QC414418		Soil	131459	11/08/07 18:17	1.064	5 7 6 1	
019	lk819	X	IB				11/08/07 18:49	1.0	1	
020	lk820	PREPBLK	QC414494	M	Soil	131459	11/08/07 19:21	25.0	8 1	
021	lk821	SAMPLE	199075-001		Soil	131459	11/08/07 19:54	1.0	1	
022	lk822	SAMPLE	199075-002		Soil	131459	11/08/07 20:26	0.9434	1	
023	lk823	SAMPLE	199032-001	M	Miscell.	131459	11/08/07 20:58	1000	8 1	
024	lk824	X	IB				11/08/07 21:31	1.0	1	
025	lk825	X	12A				11/08/07 22:03	1.0	1	
026	lk826	X	12B				11/08/07 22:35	1.0	1	
027	lk827	X	IB				11/08/07 23:08	1.0	1	

Analyst: WNH Date: 11/09/07 Reviewer: ACM Date: 11/09/07

Standards used: 1=S7365 2=S6497 3=S7417 4=S7531 5=S7480 6=S7415 7=S7498 8=S7590

REPORTING SUMMARY FOR 199042 E8260 Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF
199042-003	MSVOA12	N	11/08/07 16:08	1.087
199042-004	MSVOA12	N	11/08/07 16:40	0.7246
199042-005	MSVOA12	N	11/08/07 17:12	0.8929
QC414324	MSVOA12	N	11/08/07 11:49	1.0
QC414325	MSVOA12	N	11/08/07 10:44	1.0
QC414417	MSVOA12	N	11/08/07 17:44	0.9615
QC414418	MSVOA12	N	11/08/07 18:17	1.064
QC414494	MSVOA12	M	11/08/07 19:21	25.0

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/8/07

Prepped by: Tie

8260 5030 131459

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	198921-2	0.9	A			MM 50 x, OD Load last		11/15
2	199003-5	0.100				MM 50x, OD		11/8 Rush
3	-10	0.060				MM 83x, OD		11/8
4	199032-001	10.0		X		Screen 1000X		11/13 46
5	199040-001	5.3					11/16	43
6								
7	199003-005	0.060	A			RR 83.3X		
8	010	0.040				RR 125X		
9								
10	199075-001	5.0	A					11/14
11	002	5.3						
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24	Prepblk MeOH	0.2	—			11/8 25/X		
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	199042-003	4.6	C			MSS		11/9R
2	003	5.2	D			MS		
3	003	4.7	E			MSD		
4	004	6.9	R					
5	005	5.6						
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

PROJECT MS VOA MeOH Extraction Log

Notebook No. BK2351

Continued From Page

Date & Initial	Sample ID	Soil wt. (g)	MeOH vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate Std. Vol (mL)	Comments
10/29/07 JE	Blank	10.0	10.0	CU319	8260	57000	0.010	
	198658-1 A	10.0						
	198685-2	1.0						oil
	198778-1	10.0						oily sludge
	-2	10.0						
11/2/07 JE	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198797-5 A							
	-6							
	-7							
	198843-2							
	198889-1							
	-2							
11/5/07 JE	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198881-3 A							
	-4							
	-6							
	-7							
	-8							
	-10							
	-11							
	-15							
	198908-2							
	-3							
	-6							
11/6/07 JE	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198881-12 A							
	-17							
11/6/07 JE	199013-001 A	10.0	10.0	CU319	8260	57590	0.01	
	-002 A	10.0	10.0					
11/7/07 JE	Blank	10.0	10.0	CU319	8260	57590	0.010	
	198921-2 A							
	199003-5							comp. (1-4) 5.0 g each
	-10							comp. (6-9) 5.0g each

Continued on Page

Read and Understood By

Signed Date Signed Date

24

PROJECT Ms VOA Extraction Log for MeOH

Notebook No. BK2351

Continued From Page

Date & initial	Sample ID	soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
11/8/07 ZE	Blank	10.0	10.0	CH319	8260	S7590	0.010	
⊥	199032-1 A	⊥	⊥	⊥	⊥	⊥	⊥	oily sludge

Continued on Page

Read and Understood By

Signed Date Signed Date

SEMI-VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX363[8.0]	Batch#:	131580
Lab ID:	199042-003	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	ug/Kg	Prepared:	11/10/07
Basis:	dry	Analyzed:	11/12/07
Diln Fac:	1.000		

Moisture: 19%

Analyte	Result	RL	MDL
Naphthalene	ND	6.2	0.94
2-Methylnaphthalene	ND	6.2	0.91
Acenaphthylene	ND	6.2	1.0
Acenaphthene	ND	6.2	0.83
Fluorene	ND	6.2	1.0
Phenanthrene	ND	6.2	0.68
Anthracene	ND	6.2	2.0
Fluoranthene	ND	6.2	0.89
Pyrene	ND	6.2	0.91
Benzo(a)anthracene	ND	6.2	0.81
Chrysene	ND	6.2	1.5
Benzo(b)fluoranthene	ND	6.2	0.48
Benzo(k)fluoranthene	ND	6.2	1.3
Benzo(a)pyrene	ND	6.2	1.3
Indeno(1,2,3-cd)pyrene	ND	6.2	0.86
Dibenz(a,h)anthracene	ND	6.2	0.92
Benzo(g,h,i)perylene	ND	6.2	0.82

Surrogate	%REC	Limits
Nitrobenzene-d5	52	39-136
2-Fluorobiphenyl	55	42-120
Terphenyl-d14	45	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

35.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX364[6.0]	Batch#:	131452
Lab ID:	199042-004	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	ug/Kg	Prepared:	11/08/07
Basis:	dry	Analyzed:	11/08/07
Diln Fac:	1.000		

Moisture: 17%

Analyte	Result	RL	MDL
Naphthalene	ND	6.0	0.82
2-Methylnaphthalene	ND	6.0	0.85
Acenaphthylene	ND	6.0	0.77
Acenaphthene	ND	6.0	1.1
Fluorene	ND	6.0	1.0
Phenanthrene	ND	6.0	0.97
Anthracene	ND	6.0	0.74
Fluoranthene	ND	6.0	1.1
Pyrene	ND	6.0	0.94
Benzo(a)anthracene	ND	6.0	0.85
Chrysene	ND	6.0	0.87
Benzo(b)fluoranthene	ND	6.0	0.99
Benzo(k)fluoranthene	ND	6.0	1.5
Benzo(a)pyrene	ND	6.0	0.68
Indeno(1,2,3-cd)pyrene	ND	6.0	0.87
Dibenz(a,h)anthracene	ND	6.0	0.83
Benzo(g,h,i)perylene	ND	6.0	0.84

Surrogate	%REC	Limits
Nitrobenzene-d5	85	39-136
2-Fluorobiphenyl	71	42-120
Terphenyl-d14	77	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

31.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX365[6.5]	Batch#:	131452
Lab ID:	199042-005	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	ug/Kg	Prepared:	11/08/07
Basis:	dry	Analyzed:	11/08/07
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL	MDL
Naphthalene	1.3 J	5.9	0.80
2-Methylnaphthalene	1.0 J	5.9	0.83
Acenaphthylene	ND	5.9	0.75
Acenaphthene	ND	5.9	1.1
Fluorene	ND	5.9	1.0
Phenanthrene	2.5 J	5.9	0.95
Anthracene	ND	5.9	0.72
Fluoranthene	5.4 J	5.9	1.0
Pyrene	6.4	5.9	0.91
Benzo(a)anthracene	1.8 J	5.9	0.83
Chrysene	2.5 J	5.9	0.85
Benzo(b)fluoranthene	2.8 J	5.9	0.96
Benzo(k)fluoranthene	ND	5.9	1.5
Benzo(a)pyrene	2.3 J	5.9	0.66
Indeno(1,2,3-cd)pyrene	1.7 J	5.9	0.85
Dibenz(a,h)anthracene	ND	5.9	0.81
Benzo(g,h,i)perylene	2.9 J	5.9	0.82

Surrogate	%REC	Limits
Nitrobenzene-d5	97	39-136
2-Fluorobiphenyl	80	42-120
Terphenyl-d14	82	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

32.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC414296	Batch#:	131452
Matrix:	Soil	Prepared:	11/08/07
Units:	ug/Kg	Analyzed:	11/08/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.72
2-Methylnaphthalene	ND	5.0	0.60
Acenaphthylene	ND	5.0	0.64
Acenaphthene	ND	5.0	0.57
Fluorene	ND	5.0	0.59
Phenanthrene	ND	5.0	0.71
Anthracene	ND	5.0	0.70
Fluoranthene	ND	5.0	0.94
Pyrene	ND	5.0	0.77
Benzo(a)anthracene	ND	5.0	0.88
Chrysene	ND	5.0	0.75
Benzo(b)fluoranthene	ND	5.0	0.66
Benzo(k)fluoranthene	ND	5.0	0.67
Benzo(a)pyrene	ND	5.0	0.54
Indeno(1,2,3-cd)pyrene	ND	5.0	0.61
Dibenz(a,h)anthracene	ND	5.0	0.50
Benzo(g,h,i)perylene	ND	5.0	0.50

Surrogate	%REC	Limits
Nitrobenzene-d5	45	39-136
2-Fluorobiphenyl	64	42-120
Terphenyl-d14	80	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

33.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC414821	Batch#:	131580
Matrix:	Soil	Prepared:	11/10/07
Units:	ug/Kg	Analyzed:	11/12/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.76
2-Methylnaphthalene	ND	5.0	0.73
Acenaphthylene	ND	5.0	0.82
Acenaphthene	ND	5.0	0.67
Fluorene	ND	5.0	0.81
Phenanthrene	ND	5.0	0.55
Anthracene	ND	5.0	1.6
Fluoranthene	ND	5.0	0.71
Pyrene	ND	5.0	0.73
Benzo(a)anthracene	ND	5.0	0.65
Chrysene	ND	5.0	1.2
Benzo(b)fluoranthene	ND	5.0	0.38
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	1.1
Indeno(1,2,3-cd)pyrene	ND	5.0	0.69
Dibenz(a,h)anthracene	ND	5.0	0.74
Benzo(g,h,i)perylene	ND	5.0	0.66

Surrogate	%REC	Limits
Nitrobenzene-d5	72	39-136
2-Fluorobiphenyl	85	42-120
Terphenyl-d14	74	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

37.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC414297	Batch#:	131452
Matrix:	Soil	Prepared:	11/08/07
Units:	ug/Kg	Analyzed:	11/08/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.22	23.21	70	42-120
Pyrene	33.22	25.67	77	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	65	39-136
2-Fluorobiphenyl	84	42-120
Terphenyl-d14	88	34-130

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC414822	Batch#:	131580
Matrix:	Soil	Prepared:	11/10/07
Units:	ug/Kg	Analyzed:	11/12/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	32.89	27.18	83	42-120
Pyrene	32.89	24.42	74	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	72	39-136
2-Fluorobiphenyl	84	42-120
Terphenyl-d14	69	34-130

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX363[8.0]	Batch#:	131452
MSS Lab ID:	199042-003	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	ug/Kg	Prepared:	11/08/07
Basis:	dry	Analyzed:	11/09/07
Diln Fac:	1.000		

Type: MS Moisture: 19%
Lab ID: QC414298

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.162	41.00	28.90	70	47-120
Pyrene	<0.9642	41.00	31.51	77	17-146

Surrogate	%REC	Limits
Nitrobenzene-d5	81	39-136
2-Fluorobiphenyl	79	42-120
Terphenyl-d14	88	34-130

Type: MSD Moisture: 19%
Lab ID: QC414299

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	41.48	26.53	64	47-120	10	32
Pyrene	41.48	28.61	69	17-146	11	47

Surrogate	%REC	Limits
Nitrobenzene-d5	69	39-136
2-Fluorobiphenyl	70	42-120
Terphenyl-d14	80	34-130

RPD= Relative Percent Difference

36.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX363[8.0]	Batch#:	131580
MSS Lab ID:	199042-003	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	ug/Kg	Prepared:	11/10/07
Basis:	dry	Analyzed:	11/12/07
Diln Fac:	1.000		

Type: MS Moisture: 19%
Lab ID: QC414823

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<0.8350	41.39	34.08	82	47-120
Pyrene	<0.9120	41.39	32.58	79	17-146

Surrogate	%REC	Limits
Nitrobenzene-d5	74	39-136
2-Fluorobiphenyl	82	42-120
Terphenyl-d14	71	34-130

Type: MSD Moisture: 19%
Lab ID: QC414824

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	41.53	30.52	73	47-120	11	32
Pyrene	41.53	30.26	73	17-146	8	47

Surrogate	%REC	Limits
Nitrobenzene-d5	70	39-136
2-Fluorobiphenyl	72	42-120
Terphenyl-d14	65	34-130

RPD= Relative Percent Difference

Level III for 199042 MSSIM Soil

Generated on 11/12/07 17:09.

CURTIS & TOMPKINS DFTPP TUNE FOR 199042 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291006 File : uk206 Time : 02-NOV-2007 14:11

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	40208	49.54	
68	< 2% of mass 69	0	0.00	
69		52679		
70	< 2% of mass 69	165	0.31	
127	40% - 60% of mass 198	40437	49.82	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5444	6.71	
275	10% - 30% of mass 198	12568	15.48	
365	> 1% of mass 198	1072	1.32	
441	Present, < mass 443	8859	71.19	
442	> 40% and < 100% of mass 198	62530	77.04	
443	17% - 23% of mass 442	12444	19.90	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291006

CURTIS & TOMPKINS DFTPP TUNE FOR 199042 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291014 File : uk214 Time : 02-NOV-2007 18:51

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	41709	46.22	
68	< 2% of mass 69	0	0.00	
69		53443		
70	< 2% of mass 69	271	0.51	
127	40% - 60% of mass 198	43936	48.69	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	6233	6.91	
275	10% - 30% of mass 198	15111	16.74	
365	> 1% of mass 198	1241	1.38	
441	Present, < mass 443	11166	72.57	
442	> 40% and < 100% of mass 198	79056	87.60	
443	17% - 23% of mass 442	15387	19.46	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291014

CURTIS & TOMPKINS DFTPP TUNE FOR 199042 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517450361003 File : uk803 Time : 08-NOV-2007 18:38

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	76488	58.08	
68	< 2% of mass 69	0	0.00	
69		93952		
70	< 2% of mass 69	444	0.47	
127	40% - 60% of mass 198	67584	51.32	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	8798	6.68	
275	10% - 30% of mass 198	20825	15.81	
365	> 1% of mass 198	1961	1.49	
441	Present, < mass 443	14904	73.90	
442	> 40% and < 100% of mass 198	106056	80.53	
443	17% - 23% of mass 442	20168	19.02	

Analyst: LLH Date: 11/09/07 Reviewer: AD Date: 11/09/07

517450361003

CURTIS & TOMPKINS DFTPP TUNE FOR 199042 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527449989008 File : vk808 Time : 08-NOV-2007 21:18

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	105613	53.38	
68	< 2% of mass 69	0	0.00	
69		134730		
70	< 2% of mass 69	630	0.47	
127	40% - 60% of mass 198	108312	54.74	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	13249	6.70	
275	10% - 30% of mass 198	55312	27.95	
365	> 1% of mass 198	5624	2.84	
441	Present, < mass 443	25229	84.31	
442	> 40% and < 100% of mass 198	154304	77.98	
443	17% - 23% of mass 442	29925	19.39	

Analyst: JAJ Date: 11/09/07 Reviewer: LW Date: 11/12/07

527449989008

CURTIS & TOMPKINS DFTPP TUNE FOR 199042 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527455616003 File : vkc03 Time : 12-NOV-2007 10:36

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	96080	54.24	
68	< 2% of mass 69	0	0.00	
69		118832		
70	< 2% of mass 69	709	0.60	
127	40% - 60% of mass 198	101680	57.40	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	12210	6.89	
275	10% - 30% of mass 198	48336	27.29	
365	> 1% of mass 198	5348	3.02	
441	Present, < mass 443	27704	90.84	
442	> 40% and < 100% of mass 198	156544	88.37	
443	17% - 23% of mass 442	30496	19.48	

Analyst: LLH Date: 11/12/07 Reviewer: AD Date: 11/12/07

527455616003

CURTIS & TOMPKINS DFTPP TUNE FOR 199042 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50NG IDF : 1.0
Seqnum : 537440171003 File : wk103 Time : 01-NOV-2007 17:47

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	108900	49.98	
68	< 2% of mass 69	0	0.00	
69		110746		
70	< 2% of mass 69	324	0.29	
127	40% - 60% of mass 198	101917	46.77	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	14517	6.66	
275	10% - 30% of mass 198	43760	20.08	
365	> 1% of mass 198	4656	2.14	
441	Present, < mass 443	27619	74.79	
442	> 40% and < 100% of mass 198	188173	86.36	
443	17% - 23% of mass 442	36930	19.63	

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

537440171003

CURTIS & TOMPKINS DFTPP TUNE FOR 199042 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 537441645001 File : wk201 Time : 02-NOV-2007 16:45

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	105565	48.05	
68	< 2% of mass 69	0	0.00	
69		110773		
70	< 2% of mass 69	460	0.42	
127	40% - 60% of mass 198	100557	45.77	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	14900	6.78	
275	10% - 30% of mass 198	43672	19.88	
365	> 1% of mass 198	4503	2.05	
441	Present, < mass 443	29264	73.39	
442	> 40% and < 100% of mass 198	200314	91.18	
443	17% - 23% of mass 442	39872	19.90	

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

537441645001

CURTIS & TOMPKINS DFTPP TUNE FOR 199042 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 537450230006 File : wk806 Time : 08-NOV-2007 18:34

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	67988	40.97	
68	< 2% of mass 69	0	0.00	
69		74720		
70	< 2% of mass 69	212	0.28	
127	40% - 60% of mass 198	73592	44.35	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	10900	6.57	
275	10% - 30% of mass 198	30536	18.40	
365	> 1% of mass 198	3008	1.81	
441	Present, < mass 443	14908	59.66	
442	> 40% and < 100% of mass 198	124452	74.99	
443	17% - 23% of mass 442	24988	20.08	

Analyst: LLH Date: 11/09/07 Reviewer: AD Date: 11/09/07

537450230006

CURTIS & TOMPKINS DFTPP TUNE FOR 199042 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 537451529001 File : wk901 Time : 09-NOV-2007 13:29

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	130216	41.18	
68	< 2% of mass 69	0	0.00	
69		153024		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	150592	47.62	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	21920	6.93	
275	10% - 30% of mass 198	58320	18.44	
365	> 1% of mass 198	7502	2.37	
441	Present, < mass 443	36768	78.60	
442	> 40% and < 100% of mass 198	220672	69.78	
443	17% - 23% of mass 442	46776	21.20	

Analyst: LLH Date: 11/12/07 Reviewer: AD Date: 11/12/07

537451529001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517441291001
Units : ug/mL

Name : 2PAHSIM
Date : 02-NOV-2007 14:33
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	uk207	517441291007	0.1/0.5UG/ML PAHDIOX	02-NOV-2007 14:33	S7213
L2	uk208	517441291008	0.2/1.0UG/ML PAHDIOX	02-NOV-2007 15:14	S7214
L3	uk209	517441291009	0.5/2.5UG/ML PAHDIOX	02-NOV-2007 15:55	S7215
L4	uk210	517441291010	1.0/5.0UG/ML PAHDIOX	02-NOV-2007 16:31	S7216
L5	uk211	517441291011	2.0/10.0UG/ML PAHDIO	02-NOV-2007 17:07	S7217
L6	uk212	517441291012	5.0/25.0UG/ML PAHDIO	02-NOV-2007 17:43	S7218
L7	uk213	517441291013	10.0/50.0UG/ML PAHDI	02-NOV-2007 18:19	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0639	1.0823	1.0856	1.1040	1.1332	1.1131	1.0916	AVRG		0.91222		1.0962	2	15	0.05	0.99	
2-Methylnaphthalene	0.6357	0.6327	0.6493	0.6889	0.7064	0.6851	0.6560	AVRG		1.50406		0.6649	4	15	0.05	0.99	
Acenaphthylene	1.8691	1.9772	1.8721	1.8864	1.9509	2.0678	1.9515	AVRG		0.51566		1.9393	4	15	0.05	0.99	
Acenaphthene	1.0159	1.0928	1.0242	1.0541	1.1281	1.1167	1.0762	AVRG		0.93232		1.0726	4	15	0.05	0.99	
Fluorene	1.2548	1.3014	1.2069	1.2491	1.2902	1.3355	1.2057	AVRG		0.79154		1.2634	4	15	0.05	0.99	
Phenanthrene	1.1292m	1.2024	1.1937	1.2045	1.1824	1.1754	1.2048	AVRG		0.84414		1.1846	2	15	0.05	0.99	
Anthracene	1.0203m	1.1253m	1.0649m	1.0639m	1.1298	1.0908m	1.0707	AVRG		0.92521		1.0808	4	15	0.05	0.99	
Fluoranthene	1.0832	1.1668	1.1140	1.1525	1.2037	1.1694	1.2065	AVRG		0.86463		1.1566	4	15	0.05	0.99	
Pyrene	1.8526	2.0391	1.8341	1.8720	1.7668	1.7596	1.6633	AVRG		0.54741		1.8268	6	15	0.05	0.99	
Benzo(a)anthracene	1.1417	1.1877m	1.1715	1.2070	1.2427	1.2768	1.2573	AVRG		0.82502		1.2121	4	15	0.05	0.99	
Chrysene	1.1638m	1.2611m	1.1702m	1.2135m	1.2485	1.1741	1.1845	AVRG		0.83179		1.2022	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3117	1.4346m	1.4072	1.5151	1.4590	1.4492	1.4097	AVRG		0.70094		1.4267	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.2810m	1.4441	1.4226	1.4871	1.4949	1.6051	1.6111	AVRG		0.67660		1.4780	8	15	0.05	0.99	
Benzo(a)pyrene	0.9774m	1.0759	1.0971	1.1613	1.2506	1.2644	1.2978	AVRG		0.86160		1.1606	10	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9592m	0.9941m	1.0273m	1.0226	1.1734	1.2215	1.2664	AVRG		0.91331		1.0949	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6926m	0.8080m	0.7864	0.7933	0.9054	0.9571	1.0173	AVRG		1.17447		0.8514	13	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9227m	0.9829m	0.9663	0.9096	1.0016	1.0677	1.0671	AVRG		1.01188		0.9883	6	15	0.05	0.99	
Nitrobenzene-d5	0.2886m	0.2785m	0.2938m	0.2894m	0.2991	0.3061	0.2988	AVRG		3.40744		0.2935	3	15	0.05	0.99	
2-Fluorobiphenyl	1.3097	1.3536	1.2990	1.2974	1.2619	1.3343	1.2572	AVRG		0.76813		1.3019	3	15	0.05	0.99	
Terphenyl-d14	1.2533	1.2554	1.2006	1.2455	1.2170	1.1718	1.1433	AVRG		0.82481		1.2124	4	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	-1	1.000	1	2.000	3	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-4	0.200	-5	0.500	-2	1.000	4	2.000	6	5.000	3	10.00	-1
Acenaphthylene	0.100	-4	0.200	2	0.500	-3	1.000	-3	2.000	1	5.000	7	10.00	1
Acenaphthene	0.100	-5	0.200	2	0.500	-5	1.000	-2	2.000	5	5.000	4	10.00	0
Fluorene	0.100	-1	0.200	3	0.500	-4	1.000	-1	2.000	2	5.000	6	10.00	-5
Phenanthrene	0.100	-5	0.200	1	0.500	1	1.000	2	2.000	0	5.000	-1	10.00	2
Anthracene	0.100	-6	0.200	4	0.500	-1	1.000	-2	2.000	5	5.000	1	10.00	-1
Fluoranthene	0.100	-6	0.200	1	0.500	-4	1.000	0	2.000	4	5.000	1	10.00	4
Pyrene	0.100	1	0.200	12	0.500	0	1.000	2	2.000	-3	5.000	-4	10.00	-9
Benzo(a)anthracene	0.100	-6	0.200	-2	0.500	-3	1.000	0	2.000	3	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	5	0.500	-3	1.000	1	2.000	4	5.000	-2	10.00	-1
Benzo(b)fluoranthene	0.100	-8	0.200	1	0.500	-1	1.000	6	2.000	2	5.000	2	10.00	-1
Benzo(k)fluoranthene	0.100	-13	0.200	-2	0.500	-4	1.000	1	2.000	1	5.000	9	10.00	9
Benzo(a)pyrene	0.100	-16	0.200	-7	0.500	-5	1.000	0	2.000	8	5.000	9	10.00	12
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-9	0.500	-6	1.000	-7	2.000	7	5.000	12	10.00	16
Dibenz(a,h)anthracene	0.100	-19	0.200	-5	0.500	-8	1.000	-7	2.000	6	5.000	12	10.00	19
Benzo(g,h,i)perylene	0.100	-7	0.200	-1	0.500	-2	1.000	-8	2.000	1	5.000	8	10.00	8
Nitrobenzene-d5	0.100	-2	0.200	-5	0.500	0	1.000	-1	2.000	2	5.000	4	10.00	2
2-Fluorobiphenyl	0.100	1	0.200	4	0.500	0	1.000	0	2.000	-3	5.000	2	10.00	-3
Terphenyl-d14	0.100	3	0.200	4	0.500	-1	1.000	3	2.000	0	5.000	-3	10.00	-6

JGM 11/02/07 : Manual integrations for tailing/misidentified peaks.

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199042 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 517441291001 Cal Date : 02-NOV-2007

ICV 517441291015 (uk215 02-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0962	1.0045	1.000	0.9164	ug/mL	-8	20	
2-Methylnaphthalene	0.6649	0.5940	1.000	0.8935	ug/mL	-11	20	
Acenaphthylene	1.9393	1.8656	1.000	0.9620	ug/mL	-4	20	
Acenaphthene	1.0726	0.9993	1.000	0.9317	ug/mL	-7	20	
Fluorene	1.2634	1.1648	1.000	0.9220	ug/mL	-8	20	
Phenanthrene	1.1846	1.0678	1.000	0.9014	ug/mL	-10	20	
Anthracene	1.0808	1.1002	1.000	1.018	ug/mL	2	20	
Fluoranthene	1.1566	1.1099	1.000	0.9596	ug/mL	-4	20	
Pyrene	1.8268	1.7231	1.000	0.9432	ug/mL	-6	20	
Benzo(a)anthracene	1.2121	1.1245	1.000	0.9278	ug/mL	-7	20	
Chrysene	1.2022	1.1778	1.000	0.9797	ug/mL	-2	20	
Benzo(b)fluoranthene	1.4267	1.2951	1.000	0.9078	ug/mL	-9	20	
Benzo(k)fluoranthene	1.4780	1.5735	1.000	1.065	ug/mL	6	20	
Benzo(a)pyrene	1.1606	1.1339	1.000	0.9770	ug/mL	-2	20	
Indeno(1,2,3-cd)pyrene	1.0949	0.9389	1.000	0.8575	ug/mL	-14	20	
Dibenz(a,h)anthracene	0.8514	0.7382	1.000	0.8670	ug/mL	-13	20	
Benzo(g,h,i)perylene	0.9883	0.8900	1.000	0.9006	ug/mL	-10	20	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 527449989003
Units : ug/mL

Name : 3PAHSIM
Date : 08-NOV-2007 21:39
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vk809	527449989009	ICAL1	08-NOV-2007 21:39	S7213
L2	vk810	527449989010	ICAL2	08-NOV-2007 22:12	S7214
L3	vk811	527449989011	ICAL3	08-NOV-2007 22:46	S7215
L4	vk812	527449989012	ICAL4	08-NOV-2007 23:21	S7216
L5	vk813	527449989013	ICAL5	08-NOV-2007 23:56	S7217
L6	vk814	527449989014	ICAL6	09-NOV-2007 00:32	S7218
L7	vk815	527449989015	ICAL7	09-NOV-2007 01:04	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1005	1.1174	1.1301	1.1427	1.1419	1.1524	1.1274	AVRG		0.88469		1.1303	2	15	0.05	0.99	
2-Methylnaphthalene	0.7478	0.7522	0.7641	0.7694	0.7720	0.7862	0.7768	AVRG		1.30389		0.7669	2	15	0.05	0.99	
Acenaphthylene	1.6168	1.6367	1.7498	1.8547	1.9248	1.9937	1.9522	AVRG		0.54994		1.8184	8	15	0.05	0.99	
Acenaphthene	1.0848m	1.1039m	1.1336	1.1523	1.1634	1.1995	1.1869	AVRG		0.87233		1.1464	4	15	0.05	0.99	
Fluorene	1.3105	1.3324	1.3703	1.3782	1.3935	1.4300	1.4239	AVRG		0.72622		1.3770	3	15	0.05	0.99	
Phenanthrene	1.2260m	1.2527	1.2638	1.2756	1.2856	1.2953	1.2694	AVRG		0.78932		1.2669	2	15	0.05	0.99	
Anthracene	0.9365m	0.9669	1.0205	1.0818	1.1256	1.1745	1.1699	AVRG		0.93635		1.0680	9	15	0.05	0.99	
Fluoranthene	1.2127	1.2395	1.2794	1.3044	1.3451	1.3498	1.3241	AVRG		0.77305		1.2936	4	15	0.05	0.99	
Pyrene	1.4218	1.4780	1.5018	1.5219	1.5199	1.5321	1.4777	AVRG		0.66965		1.4933	3	15	0.05	0.99	
Benzo(a)anthracene	1.1446	1.1658	1.1995	1.2594	1.3011	1.3470	1.3059	AVRG		0.80243		1.2462	6	15	0.05	0.99	
Chrysene	1.1826m	1.2217m	1.2549m	1.2705	1.2842	1.2926	1.2519	AVRG		0.79924		1.2512	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3494m	1.3913m	1.4645m	1.4986	1.5319	1.5622	1.5285	AVRG		0.67787		1.4752	5	15	0.05	0.99	
Benzo(k)fluoranthene	1.3090m	1.3508m	1.3644m	1.4291m	1.4533m	1.5152	1.5091	AVRG		0.70488		1.4187	6	15	0.05	0.99	
Benzo(a)pyrene	1.1475m	1.1915m	1.2340m	1.3096	1.3580	1.4514	1.4477	AVRG		0.76589		1.3057	9	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2534m	1.3086m	1.3575	1.4395	1.4848	1.5706	1.5676	AVRG		0.70126		1.4260	9	15	0.05	0.99	
Dibenz(a,h)anthracene	1.0223	1.0639	1.0988	1.1683	1.2028	1.2826	1.2921	AVRG		0.86092		1.1616	9	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1082	1.1638	1.1822	1.2408	1.2618	1.2822	1.2684	AVRG		0.82281		1.2153	5	15	0.05	0.99	
Nitrobenzene-d5	0.3937m	0.3942m	0.4208	0.4420	0.4713	0.5040	0.5086	AVRG		2.23312		0.4478	11	15	0.05	0.99	
2-Fluorobiphenyl	1.3689	1.3902	1.4139	1.4241	1.4129	1.4172	1.3818	AVRG		0.71364		1.4013	1	15	0.05	0.99	
Terphenyl-d14	1.0154	1.0592	1.0668	1.0868	1.0764	1.0869	1.0605	AVRG		0.93936		1.0646	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	0	1.000	1	2.000	1	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-2	0.200	-2	0.500	0	1.000	0	2.000	1	5.000	3	10.00	1
Acenaphthylene	0.100	-11	0.200	-10	0.500	-4	1.000	2	2.000	6	5.000	10	10.00	7
Acenaphthene	0.100	-5	0.200	-4	0.500	-1	1.000	1	2.000	1	5.000	5	10.00	4
Fluorene	0.100	-5	0.200	-3	0.500	0	1.000	0	2.000	1	5.000	4	10.00	3
Phenanthrene	0.100	-3	0.200	-1	0.500	0	1.000	1	2.000	1	5.000	2	10.00	0
Anthracene	0.100	-12	0.200	-9	0.500	-4	1.000	1	2.000	5	5.000	10	10.00	10
Fluoranthene	0.100	-6	0.200	-4	0.500	-1	1.000	1	2.000	4	5.000	4	10.00	2
Pyrene	0.100	-5	0.200	-1	0.500	1	1.000	2	2.000	2	5.000	3	10.00	-1
Benzo(a)anthracene	0.100	-8	0.200	-6	0.500	-4	1.000	1	2.000	4	5.000	8	10.00	5
Chrysene	0.100	-5	0.200	-2	0.500	0	1.000	2	2.000	3	5.000	3	10.00	0
Benzo(b)fluoranthene	0.100	-9	0.200	-6	0.500	-1	1.000	2	2.000	4	5.000	6	10.00	4
Benzo(k)fluoranthene	0.100	-8	0.200	-5	0.500	-4	1.000	1	2.000	2	5.000	7	10.00	6
Benzo(a)pyrene	0.100	-12	0.200	-9	0.500	-5	1.000	0	2.000	4	5.000	11	10.00	11
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-8	0.500	-5	1.000	1	2.000	4	5.000	10	10.00	10
Dibenz(a,h)anthracene	0.100	-12	0.200	-8	0.500	-5	1.000	1	2.000	4	5.000	10	10.00	11
Benzo(g,h,i)perylene	0.100	-9	0.200	-4	0.500	-3	1.000	2	2.000	4	5.000	6	10.00	4
Nitrobenzene-d5	0.100	-12	0.200	-12	0.500	-6	1.000	-1	2.000	5	5.000	13	10.00	14
2-Fluorobiphenyl	0.100	-2	0.200	-1	0.500	1	1.000	2	2.000	1	5.000	1	10.00	-1
Terphenyl-d14	0.100	-5	0.200	-1	0.500	0	1.000	2	2.000	1	5.000	2	10.00	0

JAJ 11/09/07 : All manual integrations performed in order to match baseline and/or to include the appropriate amount of tailing.

Analyst: JAJ Date: 11/12/07 Reviewer: LW Date: 11/12/07

manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199042 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Name : 3PAHSIM
Calnum : 527449989003 Cal Date : 08-NOV-2007

ICV 527449989016 (vk816 09-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1303	1.0585	1.000	0.9364	ug/mL	-6	20	
2-Methylnaphthalene	0.7669	0.6933	1.000	0.9040	ug/mL	-10	20	
Acenaphthylene	1.8184	1.7016	1.000	0.9358	ug/mL	-6	20	
Acenaphthene	1.1464	1.0684	1.000	0.9320	ug/mL	-7	20	
Fluorene	1.3770	1.2890	1.000	0.9361	ug/mL	-6	20	
Phenanthrene	1.2669	1.1862	1.000	0.9363	ug/mL	-6	20	
Anthracene	1.0680	1.0902	1.000	1.021	ug/mL	2	20	
Fluoranthene	1.2936	1.2479	1.000	0.9647	ug/mL	-4	20	
Pyrene	1.4933	1.4233	1.000	0.9531	ug/mL	-5	20	
Benzo(a)anthracene	1.2462	1.1492	1.000	0.9221	ug/mL	-8	20	
Chrysene	1.2512	1.1868	1.000	0.9486	ug/mL	-5	20	m
Benzo(b)fluoranthene	1.4752	1.4257	1.000	0.9664	ug/mL	-3	20	
Benzo(k)fluoranthene	1.4187	1.3464	1.000	0.9490	ug/mL	-5	20	m
Benzo(a)pyrene	1.3057	1.1894	1.000	0.9109	ug/mL	-9	20	
Indeno(1,2,3-cd)pyrene	1.4260	1.2584	1.000	0.8825	ug/mL	-12	20	
Dibenz(a,h)anthracene	1.1616	1.0630	1.000	0.9152	ug/mL	-8	20	
Benzo(g,h,i)perylene	1.2153	1.1227	1.000	0.9237	ug/mL	-8	20	

m=manual integration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199042 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA04
Calnum : 537440171001
Units : ug/mL

Name : 4PAHSIM
Date : 01-NOV-2007 18:18
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	wk104	537440171004	0.1/0.5UG/ML	01-NOV-2007 18:18	S7213
L2	wk105	537440171005	0.2/1.0UG/ML	01-NOV-2007 18:49	S7214
L3	wk106	537440171006	0.5/2.5UG/ML	01-NOV-2007 19:18	S7215
L4	wk107	537440171007	1.0/5.0UG/ML	01-NOV-2007 19:47	S7216
L5	wk108	537440171008	2.0/10.0UG/ML	01-NOV-2007 20:17	S7217
L6	wk109	537440171009	5.0/25.0UG/ML	01-NOV-2007 20:46	S7218
L7	wk110	537440171010	10.0/50.0UG/ML	01-NOV-2007 21:16	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1882	1.1822	1.1224	1.0669	0.9736	0.8930	0.8051	AVRG		0.96799		1.0331	14	15	0.05	0.99	
2-Methylnaphthalene	0.7746	0.7489m	0.7207m	0.6981	0.6472	0.6058	0.5571	AVRG		1.47297		0.6789	12	15	0.05	0.99	
Acenaphthylene	2.2522	2.1767	2.1313	2.0156	1.8836	1.6740	1.5649	AVRG		0.51101		1.9569	13	15	0.05	0.99	
Acenaphthene	1.2379m	1.2372m	1.1836m	1.1810m	1.1214	1.0153	0.9175	AVRG		0.88677		1.1277	11	15	0.05	0.99	
Fluorene	1.3591	1.3224	1.2474	1.2458	1.1951	1.0969	1.0255	AVRG		0.82430		1.2131	10	15	0.05	0.99	
Phenanthrene	1.3384	1.3512	1.3088	1.2458	1.1683	1.0410	0.9447	AVRG		0.83352		1.1997	13	15	0.05	0.99	
Anthracene	1.1857m	1.2148m	1.2071m	1.1428m	1.1071m	1.0113m	0.9488m	AVRG		0.89541		1.1168	9	15	0.05	0.99	
Fluoranthene	1.4727	1.4343	1.3947	1.3690	1.2783	1.1156	1.0420	AVRG		0.76868		1.3009	13	15	0.05	0.99	
Pyrene	1.8988	1.8415	1.7634	1.5911	1.4575	1.3300		AVRG		0.60715		1.6470	14	15	0.05	0.99	
Benzo(a)anthracene	1.2968	1.2735	1.2569	1.2499	1.1933	1.1159	1.0523	AVRG		0.82954		1.2055	8	15	0.05	0.99	
Chrysene	1.3916m	1.3858m	1.3784m	1.3333m	1.2516m	1.1095m	1.0613m	AVRG		0.78550		1.2731	11	15	0.05	0.99	
Benzo(b)fluoranthene	1.2222m	1.1676	1.1615	1.1564	1.0725	1.0652	1.0196	AVRG		0.89002		1.1236	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.3993m	1.3385m	1.3596m	1.3102m	1.2329m	1.1317m	1.0808m	AVRG		0.79070		1.2647	10	15	0.05	0.99	
Benzo(a)pyrene	1.0976m	1.0905	1.0952	1.1306	1.1063	1.0652	1.0121	AVRG		0.92135		1.0854	3	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.1659m	1.1249m	1.2095m	1.2590m	1.2275	1.2138	1.2149	AVRG		0.83179		1.2022	4	15	0.05	0.99	
Dibenz(a,h)anthracene	0.7484m	0.7445m	0.8486m	0.9052m	0.9093	0.9463	0.9494	AVRG		1.15671		0.8645	10	15	0.05	0.99	
Benzo(g,h,i)perylene	1.3748m	1.3011m	1.3105m	1.2788m	1.2160m	1.1465m	1.1039m	AVRG		0.80168		1.2474	8	15	0.05	0.99	
Nitrobenzene-d5	0.3394	0.3330	0.3240	0.3192	0.3109	0.3028	0.2842	AVRG		3.16228		0.3162	6	15	0.05	0.99	
2-Fluorobiphenyl	1.5511	1.5028	1.4240	1.3604	1.2750	1.1349	1.0713	AVRG		0.75110		1.3314	14	15	0.05	0.99	
Terphenyl-d14	1.2981	1.2363	1.1787	1.1206	1.0375	0.9517	0.8981	AVRG		0.90661		1.1030	13	15	0.05	0.99	

S9136

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	15	0.200	14	0.500	9	1.000	3	2.000	-6	5.000	-14	10.00	-22
2-Methylnaphthalene	0.100	14	0.200	10	0.500	6	1.000	3	2.000	-5	5.000	-11	10.00	-18
Acenaphthylene	0.100	15	0.200	11	0.500	9	1.000	3	2.000	-4	5.000	-14	10.00	-20
Acenaphthene	0.100	10	0.200	10	0.500	5	1.000	5	2.000	-1	5.000	-10	10.00	-19
Fluorene	0.100	12	0.200	9	0.500	3	1.000	3	2.000	-1	5.000	-10	10.00	-15
Phenanthrene	0.100	12	0.200	13	0.500	9	1.000	4	2.000	-3	5.000	-13	10.00	-21
Anthracene	0.100	6	0.200	9	0.500	8	1.000	2	2.000	-1	5.000	-9	10.00	-15
Fluoranthene	0.100	13	0.200	10	0.500	7	1.000	5	2.000	-2	5.000	-14	10.00	-20
Pyrene	0.100	15	0.200	12	0.500	7	1.000	-3	2.000	-12	5.000	-19		
Benzo(a)anthracene	0.100	8	0.200	6	0.500	4	1.000	4	2.000	-1	5.000	-7	10.00	-13
Chrysene	0.100	9	0.200	9	0.500	8	1.000	5	2.000	-2	5.000	-13	10.00	-17
Benzo(b)fluoranthene	0.100	9	0.200	4	0.500	3	1.000	3	2.000	-5	5.000	-5	10.00	-9
Benzo(k)fluoranthene	0.100	11	0.200	6	0.500	8	1.000	4	2.000	-3	5.000	-11	10.00	-15
Benzo(a)pyrene	0.100	1	0.200	0	0.500	1	1.000	4	2.000	2	5.000	-2	10.00	-7
Indeno(1,2,3-cd)pyrene	0.100	-3	0.200	-6	0.500	1	1.000	5	2.000	2	5.000	1	10.00	1
Dibenz(a,h)anthracene	0.100	-13	0.200	-14	0.500	-2	1.000	5	2.000	5	5.000	9	10.00	10
Benzo(g,h,i)perylene	0.100	10	0.200	4	0.500	5	1.000	3	2.000	-3	5.000	-8	10.00	-11
Nitrobenzene-d5	0.100	7	0.200	5	0.500	2	1.000	1	2.000	-2	5.000	-4	10.00	-10
2-Fluorobiphenyl	0.100	17	0.200	13	0.500	7	1.000	2	2.000	-4	5.000	-15	10.00	-20
Terphenyl-d14	0.100	18	0.200	12	0.500	7	1.000	2	2.000	-6	5.000	-14	10.00	-19

LLH 11/02/07 : Manual integrations due to tailing, splitting or misidentified peaks.

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

#manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199042 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA04 Name : 4PAHSIM
Calnum : 537440171001 Cal Date : 01-NOV-2007

ICV 537441645002 (wk202 02-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0331	0.9989	1.000	0.9669	ug/mL	-3	20	
2-Methylnaphthalene	0.6789	0.6209	1.000	0.9146	ug/mL	-9	20	m
Acenaphthylene	1.9569	1.8610	1.000	0.9510	ug/mL	-5	20	
Acenaphthene	1.1277	1.0716	1.000	0.9503	ug/mL	-5	20	m
Fluorene	1.2131	1.1456	1.000	0.9443	ug/mL	-6	20	
Phenanthrene	1.1997	1.1602	1.000	0.9671	ug/mL	-3	20	
Anthracene	1.1168	1.1810	1.000	1.057	ug/mL	6	20	m
Fluoranthene	1.3009	1.2877	1.000	0.9898	ug/mL	-1	20	
Pyrene	1.6470	1.5573	1.000	0.9455	ug/mL	-5	20	
Benzo(a)anthracene	1.2055	1.1580	1.000	0.9606	ug/mL	-4	20	
Chrysene	1.2731	1.2789	1.000	1.005	ug/mL	0	20	m
Benzo(b)fluoranthene	1.1236	1.0684	1.000	0.9509	ug/mL	-5	20	
Benzo(k)fluoranthene	1.2647	1.1937	1.000	0.9438	ug/mL	-6	20	m
Benzo(a)pyrene	1.0854	1.0379	1.000	0.9563	ug/mL	-4	20	
Indeno(1,2,3-cd)pyrene	1.2022	1.0881	1.000	0.9050	ug/mL	-10	20	m
Dibenz(a,h)anthracene	0.8645	0.8085	1.000	0.9352	ug/mL	-6	20	m
Benzo(g,h,i)perylene	1.2474	1.1844	1.000	0.9495	ug/mL	-5	20	m

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : CCV4 IDF : 1.0
Seqnum : 517450361004.1 File : uk804 Time : 08-NOV-2007 19:17
Cal : 517441291001 Caldate : 02-NOV-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0962	1.1796	1.000	1.076	ug/mL	8	20	0.0500	
2-Methylnaphthalene	0.6649	0.6968	1.000	1.048	ug/mL	5	20	0.0500	m
Acenaphthylene	1.9393	2.0041	1.000	1.033	ug/mL	3	20	0.0500	
Acenaphthene	1.0726	1.1124	1.000	1.037	ug/mL	4	20	0.0500	
Fluorene	1.2634	1.2785	1.000	1.012	ug/mL	1	20	0.0500	
Phenanthrene	1.1846	1.2702	1.000	1.072	ug/mL	7	20	0.0500	
Anthracene	1.0808	1.1510	1.000	1.065	ug/mL	7	20	0.0500	m
Fluoranthene	1.1566	1.2274	1.000	1.061	ug/mL	6	20	0.0500	
Pyrene	1.8268	1.6785	1.000	0.9188	ug/mL	-8	20	0.0500	
Benzo(a)anthracene	1.2121	1.2491	1.000	1.031	ug/mL	3	20	0.0500	
Chrysene	1.2022	1.2326	1.000	1.025	ug/mL	3	20	0.0500	m
Benzo(b)fluoranthene	1.4267	1.3137	1.000	0.9208	ug/mL	-8	20	0.0500	
Benzo(k)fluoranthene	1.4780	1.4248	1.000	0.9640	ug/mL	-4	20	0.0500	m
Benzo(a)pyrene	1.1606	1.1565	1.000	0.9964	ug/mL	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0949	1.2612	1.000	1.152	ug/mL	15	20	0.0500	
Dibenz(a,h)anthracene	0.8514	0.9940	1.000	1.168	ug/mL	17	20	0.0500	
Benzo(g,h,i)perylene	0.9883	1.1330	1.000	1.147	ug/mL	15	20	0.0500	
Nitrobenzene-d5	0.2935	0.3836	1.000	1.307	ug/mL	**31**	20	0.0500	c+
2-Fluorobiphenyl	1.3019	1.3054	1.000	1.003	ug/mL	0	20	0.0500	
Terphenyl-d14	1.2124	1.0461	1.000	0.8628	ug/mL	-14	20	0.0500	

Analyst: LLH Date: 11/09/07 Reviewer: AD Date: 11/09/07

+=high bias c=CCV m=manual integration

517450361004.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 2/10UG/ML IDF : 1.0
Seqnum : 527455616004.1 File : vkc04 Time : 12-NOV-2007 10:58
Cal : 527449989003 Caldate : 08-NOV-2007
Standards: S7217

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1303	1.1811	2.000	2.090	ug/mL	4	20	0.0500	
2-Methylnaphthalene	0.7669	0.7979	2.000	2.081	ug/mL	4	20	0.0500	
Acenaphthylene	1.8184	1.9902	2.000	2.189	ug/mL	9	20	0.0500	
Acenaphthene	1.1464	1.1825	2.000	2.063	ug/mL	3	20	0.0500	
Fluorene	1.3770	1.3892	2.000	2.018	ug/mL	1	20	0.0500	
Phenanthrene	1.2669	1.2920	2.000	2.040	ug/mL	2	20	0.0500	
Anthracene	1.0680	1.1363	2.000	2.128	ug/mL	6	20	0.0500	
Fluoranthene	1.2936	1.3764	2.000	2.128	ug/mL	6	20	0.0500	
Pyrene	1.4933	1.4099	2.000	1.888	ug/mL	-6	20	0.0500	
Benzo(a)anthracene	1.2462	1.2923	2.000	2.074	ug/mL	4	20	0.0500	
Chrysene	1.2512	1.2563	2.000	2.008	ug/mL	0	20	0.0500	
Benzo(b)fluoranthene	1.4752	1.5526	2.000	2.105	ug/mL	5	20	0.0500	
Benzo(k)fluoranthene	1.4187	1.5012	2.000	2.116	ug/mL	6	20	0.0500	
Benzo(a)pyrene	1.3057	1.3968	2.000	2.140	ug/mL	7	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4260	1.3513	2.000	1.895	ug/mL	-5	20	0.0500	
Dibenz(a,h)anthracene	1.1616	1.1117	2.000	1.914	ug/mL	-4	20	0.0500	
Benzo(g,h,i)perylene	1.2153	1.1033	2.000	1.816	ug/mL	-9	20	0.0500	
Nitrobenzene-d5	0.4478	0.4577	2.000	2.044	ug/mL	2	20	0.0500	
2-Fluorobiphenyl	1.4013	1.4399	2.000	2.055	ug/mL	3	20	0.0500	
Terphenyl-d14	1.0646	0.9543	2.000	1.793	ug/mL	-10	20	0.0500	

Analyst: LLH Date: 11/12/07 Reviewer: AD Date: 11/12/07

527455616004.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA04 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 537450230007.2 File : wk807 Time : 08-NOV-2007 18:55
Cal : 537440171001 Caldate : 01-NOV-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0331	1.0626	1.000	1.029	ug/mL	3	20	0.0500	
2-Methylnaphthalene	0.6789	0.6169	1.000	0.9087	ug/mL	-9	20	0.0500	
Acenaphthylene	1.9569	2.0563	1.000	1.051	ug/mL	5	20	0.0500	
Acenaphthene	1.1277	1.1596	1.000	1.028	ug/mL	3	20	0.0500	
Fluorene	1.2131	1.2100	1.000	0.9974	ug/mL	0	20	0.0500	
Phenanthrene	1.1997	1.3042	1.000	1.087	ug/mL	9	20	0.0500	
Anthracene	1.1168	1.1682	1.000	1.046	ug/mL	5	20	0.0500	m
Fluoranthene	1.3009	1.1860	1.000	0.9117	ug/mL	-9	20	0.0500	
Pyrene	1.6470	1.7674	1.000	1.073	ug/mL	7	20	0.0500	
Benzo(a)anthracene	1.2055	1.1719	1.000	0.9722	ug/mL	-3	20	0.0500	
Chrysene	1.2731	1.3807	1.000	1.085	ug/mL	8	20	0.0500	m
Benzo(b)fluoranthene	1.1236	1.2568	1.000	1.119	ug/mL	12	20	0.0500	
Benzo(k)fluoranthene	1.2647	1.9427	1.000	1.536	ug/mL	**54**	20	0.0500	c+ m ***
Benzo(a)pyrene	1.0854	1.2119	1.000	1.117	ug/mL	12	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2022	1.3896	1.000	1.156	ug/mL	16	20	0.0500	m
Dibenz(a,h)anthracene	0.8645	1.0776	1.000	1.247	ug/mL	**25**	20	0.0500	c+ m ***
Benzo(g,h,i)perylene	1.2474	1.3105	1.000	1.051	ug/mL	5	20	0.0500	m
Nitrobenzene-d5	0.3162	0.2946	1.000	0.9317	ug/mL	-7	20	0.0500	
2-Fluorobiphenyl	1.3314	1.5496	1.000	1.164	ug/mL	16	20	0.0500	
Terphenyl-d14	1.1030	1.1966	1.000	1.085	ug/mL	8	20	0.0500	

Analyst: LLH Date: 11/09/07 Reviewer: AD Date: 11/09/07

+=high bias c=CCV m=manual integration

537450230007.2

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199042 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA04 Run Name : 1.0/5 UG/ML IDF : 1.0
Seqnum : 537451529006.2 File : wk906 Time : 09-NOV-2007 17:21
Cal : 537440171001 Caldate : 01-NOV-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0331	1.0666	1.000	1.032	ug/mL	3	20	0.0500	
2-Methylnaphthalene	0.6789	0.7188	1.000	1.059	ug/mL	6	20	0.0500	m
Acenaphthylene	1.9569	1.9854	1.000	1.015	ug/mL	1	20	0.0500	
Acenaphthene	1.1277	1.1587	1.000	1.028	ug/mL	3	20	0.0500	
Fluorene	1.2131	1.2507	1.000	1.031	ug/mL	3	20	0.0500	
Phenanthrene	1.1997	1.2555	1.000	1.047	ug/mL	5	20	0.0500	
Anthracene	1.1168	1.1431	1.000	1.024	ug/mL	2	20	0.0500	m
Fluoranthene	1.3009	1.2872	1.000	0.9895	ug/mL	-1	20	0.0500	
Pyrene	1.6470	1.6831	1.000	1.022	ug/mL	2	20	0.0500	
Benzo(a)anthracene	1.2055	1.2864	1.000	1.067	ug/mL	7	20	0.0500	
Chrysene	1.2731	1.2782	1.000	1.004	ug/mL	0	20	0.0500	m
Benzo(b)fluoranthene	1.1236	1.2177	1.000	1.084	ug/mL	8	20	0.0500	
Benzo(k)fluoranthene	1.2647	1.3449	1.000	1.063	ug/mL	6	20	0.0500	m
Benzo(a)pyrene	1.0854	1.1420	1.000	1.052	ug/mL	5	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2022	1.2343	1.000	1.027	ug/mL	3	20	0.0500	m
Dibenz(a,h)anthracene	0.8645	0.9590	1.000	1.109	ug/mL	11	20	0.0500	m
Benzo(g,h,i)perylene	1.2474	1.1912	1.000	0.9550	ug/mL	-5	20	0.0500	m
Nitrobenzene-d5	0.3162	0.3190	1.000	1.009	ug/mL	1	20	0.0500	
2-Fluorobiphenyl	1.3314	1.3352	1.000	1.003	ug/mL	0	20	0.0500	
Terphenyl-d14	1.1030	1.1792	1.000	1.069	ug/mL	7	20	0.0500	

Analyst: LLH Date: 11/12/07 Reviewer: AD Date: 11/12/07

m=manual integration

537451529006.2

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517450361

Date : 11/08/07
Sequence : MSBNA02 uk8

Reference : uk804
Analyzed : 11/08/07 19:17

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	38554	8.31	161018	9.89	73872	12.16	101643	14.12	74299	17.69	55942	19.68
		LOWER LIMIT	19277	7.81	80509	9.39	36936	11.66	50822	13.62	37150	17.19	27971	19.18
		UPPER LIMIT	77108	8.81	322036	10.39	147744	12.66	203286	14.62	148598	18.19	111884	20.18
004	CCV	CCV4	38554	8.31	161018	9.89	73872	12.16	101643	14.12	74299	17.69	55942	19.68
005	SAMPLE	199042-004	31724	8.31	131539	9.89	58933	12.16	80515	14.12	51602	17.69	37649	19.68
006	SAMPLE	199042-005	34705	8.31	147200	9.88	68316	12.16	95508	14.12	65846	17.69	52013	19.68
007	SAMPLE	199025-003	32615	8.31	145493	9.88	61553	12.16	85072	14.12	54508	17.69	40927	19.68
008	SAMPLE	199025-006	32807	8.31	139536	9.88	59670	12.16	78328	14.12	51211	17.69	37259	19.68
009	SAMPLE	199025-008	32610	8.31	138536	9.88	60315	12.16	84026	14.12	54606	17.69	41576	19.68
010	SAMPLE	199025-012	32745	8.31	140127	9.89	60692	12.16	84158	14.12	52120	17.69	35224	19.68
011	SAMPLE	198903-007	31873	8.31	137401	9.89	60301	12.16	83027	14.12	58630	17.69	47065	19.68
012	SAMPLE	199008-017	33267	8.31	140745	9.88	60218	12.16	84322	14.12	52699	17.69	41094	19.68
013	SAMPLE	199008-009	29983	8.31	131303	9.88	59132	12.16	80007	14.12	52023	17.69	39301	19.68
014	SAMPLE	199008-010	34858	8.31	149734	9.89	66549	12.16	89705	14.12	60300	17.69	45803	19.68
015	SAMPLE	199008-014	33211	8.31	140231	9.89	62442	12.16	84780	14.12	54609	17.69	41192	19.68
016	SAMPLE	199021-003	33738	8.31	151873	9.88	68109	12.16	93987	14.12	65419	17.69	47083	19.68
017	MSS	199042-003	40140	8.31	173077	9.89	79708	12.16	111857	14.12	75280	17.69	44331	19.68
018	MS	QC414298	33372	8.31	147873	9.88	64103	12.16	90045	14.12	59769	17.69	44592	19.68
019	MSD	QC414299	33993	8.31	147786	9.88	65209	12.16	87462	14.12	60502	17.69	41121	19.68
020	SAMPLE	199008-021	41702	8.31	182362	9.88	79873	12.16	108450	14.12	76549	17.69	59494	19.68
021	SAMPLE	199008-001	38072	8.31	169157	9.88	75579	12.16	101950	14.12	68680	17.69	49958	19.68
022	SAMPLE	199008-006	37190	8.31	160238	9.88	71297	12.16	97938	14.12	65639	17.69	46583	19.68
023	SAMPLE	199008-023	34717	8.30	159927	9.88	68418	12.16	93174	14.12	61465	17.69	40756	19.68

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 527455616

Date : 11/12/07
Sequence : MSBNA03 vkc

Reference : vkc04
Analyzed : 11/12/07 10:58

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	21641	7.41	74362	9.04	45652	11.35	74885	13.29	73531	16.74	54007	18.47
		LOWER LIMIT	10821	6.91	37181	8.54	22826	10.85	37443	12.79	36766	16.24	27004	17.97
		UPPER LIMIT	43282	7.91	148724	9.54	91304	11.85	149770	13.79	147062	17.24	108014	18.97
004	CCV	2/10UG/ML	21641	7.41	74362	9.04	45652	11.35	74885	13.29	73531	16.74	54007	18.47
005	BLANK	QC414821	18085	7.42	64286	9.04	41441	11.35	69583	13.29	68020	16.74	48424	18.47
006	LCS	QC414822	18376	7.42	64774	9.04	41462	11.35	69892	13.29	70961	16.74	51207	18.47
007	MSS	199042-003	23883	7.42	86487	9.04	59816	11.35	101115	13.29	105121	16.74	73543	18.47
008	MS	QC414823	18698	7.42	66376	9.04	42592	11.35	71840	13.29	72148	16.74	58630	18.47
009	SAMPLE	199030-017	19944	7.41	69351	9.04	44352	11.34	72729	13.29	65817	16.74	54005	18.47
010	SAMPLE	199030-018	20427	7.42	71486	9.04	45642	11.34	73833	13.29	58998	16.74	52376	18.47
011	MSD	QC414824	20547	7.42	72644	9.04	46207	11.34	77882	13.29	76318	16.74	62658	18.47
012	SAMPLE	199060-005	21847	7.42	76167	9.04	47769	11.34	79545	13.29	80571	16.74	65957	18.47
013	SAMPLE	199025-015	20638	7.42	73520	9.04	46656	11.34	76683	13.29	78498	16.74	65610	18.47
014	SAMPLE	199025-013	24321	7.42	86068	9.04	52752	11.34	78972	13.29	68138	16.74	57748	18.47

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 537450230

Date : 11/08/07
Sequence : MSBNA04 wk8

Reference : wk807
Analyzed : 11/08/07 18:55

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	27481	5.80	102171	7.24	35980	9.40	46871	11.29	31477	14.84	24860	16.75
		LOWER LIMIT	13741	5.30	51086	6.74	17990	8.90	23436	10.79	15739	14.34	12430	16.25
		UPPER LIMIT	54962	6.30	204342	7.74	71960	9.90	93742	11.79	62954	15.34	49720	17.25
007	CCV	1/5UG/ML	27481	5.80	102171	7.24	35980	9.40	46871	11.29	31477	14.84	24860	16.75
008	BLANK	QC414296	18836	5.79	75776	7.23	33698	9.39	48508	11.28	30842	14.83	24173	16.74
009	LCS	QC414297	14243	5.80	60681	7.24	27196	9.41	38976	11.29	25279	14.84	18954	16.75
010	SAMPLE	199006-001	14514	5.80	61347	7.24	27492	9.41	41783	11.29	25491	14.85	22360	16.76
011	SAMPLE	199030-017	23998	5.80	87847	7.24	34247	9.41	49371	11.30	30879	14.85	29387	16.76
012	SAMPLE	199030-018	21213	5.80	79736	7.24	32055	9.41	46600	11.30	30938	14.85	27345	16.75

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 537451529

Date : 11/09/07
Sequence : MSBNA04 wk9

Reference : wk906
Analyzed : 11/09/07 17:21

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	34741	5.71	137259	7.13	73461	9.29	103081	11.17	79364	14.71	68919	16.62
		LOWER LIMIT	17371	5.21	68630	6.63	36731	8.79	51541	10.67	39682	14.21	34460	16.12
		UPPER LIMIT	69482	6.21	274518	7.63	146922	9.79	206162	11.67	158728	15.21	137838	17.12
006	CCV	1.0/5 UG/ML	34741	5.71	137259	7.13	73461	9.29	103081	11.17	79364	14.71	68919	16.62
007	SAMPLE	199008-023	33071	5.70	134062	7.13	71812	9.28	95060	11.17	68913	14.71	60381	16.62
008	MS	QC414298	30748	5.70	127694	7.13	71281	9.28	97863	11.16	71708	14.70	64108	16.61
009	MSD	QC414299	30775	5.70	125122	7.13	70535	9.28	99393	11.16	74355	14.70	66391	16.61

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517441291

Instrument : MSBNA02 Begun : 11/02/07 10:51
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk201	TUN	DFTPP/PEM 50UG/ML			11/02/07 10:51	1.0	1	
002	uk202	TUN	DFTPP/PEM 50UG/ML			11/02/07 11:36	1.0	1	
003	uk203	CCV	RT CHECK			11/02/07 12:01	1.0	2	21:DIOXANE14=74
004	uk204	CCV	RT CHECK			11/02/07 12:55	1.0	2	15:DIOXANE14=64
005	uk205	TUN	DFTPP/PEM 50UG/ML			11/02/07 13:40	1.0	1	
006	uk206	TUN	DFTPP/PEM 50UG/ML			11/02/07 14:11	1.0	1	
007	uk207	ICAL	0.1/0.5UG/ML PAHDIOX			11/02/07 14:33	1.0	3	
008	uk208	ICAL	0.2/1.0UG/ML PAHDIOX			11/02/07 15:14	1.0	4	
009	uk209	ICAL	0.5/2.5UG/ML PAHDIOX			11/02/07 15:55	1.0	5	
010	uk210	ICAL	1.0/5.0UG/ML PAHDIOX			11/02/07 16:31	1.0	6	
011	uk211	ICAL	2.0/10.0UG/ML PAHDIO			11/02/07 17:07	1.0	7	
012	uk212	ICAL	5.0/25.0UG/ML PAHDIO			11/02/07 17:43	1.0	8	
013	uk213	ICAL	10.0/50.0UG/ML PAHDI			11/02/07 18:19	1.0	2	
014	uk214	TUN	DFTPP/PEM 50UG/ML			11/02/07 18:51	1.0	1	
015	uk215	ICV/CCV	10/1UG/ML			11/02/07 19:13	1.0	9	
016	uk216	BLANK	QC413150	Water	131165	11/02/07 20:03	1.0	10	
017	uk217	BS	QC413151	Water	131165	11/02/07 20:40	1.0	10	
018	uk218	BSD	QC413152	Water	131165	11/02/07 21:18	1.0	10	
019	uk219	BLANK	QC413366	Soil	131224	11/02/07 21:55	1.0	10	
020	uk220	LCS	QC413367	Soil	131224	11/02/07 22:32	1.0	10	
021	uk221	SAMPLE	198837-001	Soil	131224	11/02/07 23:10	1.0	10	
022	uk222	MSS	198767-005	Soil	131224	11/02/07 23:47	1.0	10	
023	uk223	MS	QC413368	Soil	131224	11/03/07 00:23	1.0	10	
024	uk224	MSD	QC413369	Soil	131224	11/03/07 00:59	1.0	10	
025	uk225	SAMPLE	198799-001	Water	131165	11/03/07 01:35	1.0	10	
026	uk226	BLANK	QC413563	Soil	131279	11/03/07 02:11	1.0	10	
027	uk227	LCS	QC413564	Soil	131279	11/03/07 02:46	1.0	10	
028	uk228	SAMPLE	198880-001	Soil	131279	11/03/07 03:22	2.0	10	
029	uk229	SAMPLE	198880-002	Soil	131279	11/03/07 03:58	2.0	10	
030	uk230	MSS	198903-001	Soil	131279	11/03/07 04:35	1.0	10	
031	uk231	SAMPLE	198903-002	Soil	131279	11/03/07 05:11	3.0	10	
032	uk232	SAMPLE	198903-003	Soil	131279	11/03/07 05:48	5.0	10	
033	uk233	SAMPLE	198903-006	Soil	131279	11/03/07 06:25	1.0	10	

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592 10=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517450361

Instrument : MSBNA02 Begun : 11/08/07 18:01
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk801	TUN	DFTPP/PEM 50UG/ML			11/08/07 18:01	1.0	1	
002	uk802	TUN	DFTPP/PEM 50UG/ML			11/08/07 18:17	1.0	1	
003	uk803	TUN	DFTPP/PEM 50UG/ML			11/08/07 18:38	1.0	1	
004	uk804	CCV	CCV4			11/08/07 19:17	1.0	2	
005	uk805	SAMPLE	199042-004	Soil	131452	11/08/07 19:56	1.0	3	
006	uk806	SAMPLE	199042-005	Soil	131452	11/08/07 20:32	1.0	3	
007	uk807	SAMPLE	199025-003	Soil	131452	11/08/07 21:10	1.0	3	
008	uk808	SAMPLE	199025-006	Soil	131452	11/08/07 21:47	1.0	3	
009	uk809	SAMPLE	199025-008	Soil	131452	11/08/07 22:24	1.0	3	
010	uk810	SAMPLE	199025-012	Soil	131452	11/08/07 23:02	1.0	3	
011	uk811	SAMPLE	198903-007	Soil	131452	11/08/07 23:40	1.0	3	
012	uk812	SAMPLE	199008-017	Soil	131452	11/09/07 00:17	1.0	3	
013	uk813	SAMPLE	199008-009	Soil	131452	11/09/07 00:54	1.0	3	
014	uk814	SAMPLE	199008-010	Soil	131452	11/09/07 01:31	1.0	3	
015	uk815	SAMPLE	199008-014	Soil	131452	11/09/07 02:09	1.0	3	
016	uk816	SAMPLE	199021-003	Soil	131452	11/09/07 02:45	10.0	3	
017	uk817	MSS	199042-003	Soil	131452	11/09/07 03:21	1.0	3	
018	uk818	MS	QC414298	Soil	131452	11/09/07 03:57	1.0	3	
019	uk819	MSD	QC414299	Soil	131452	11/09/07 04:35	1.0	3	
020	uk820	SAMPLE	199008-021	Soil	131452	11/09/07 05:12	1.0	3	
021	uk821	SAMPLE	199008-001	Soil	131452	11/09/07 05:48	1.0	3	
022	uk822	SAMPLE	199008-006	Soil	131452	11/09/07 06:24	1.0	3	
023	uk823	SAMPLE	199008-023	Soil	131452	11/09/07 07:02	2.0	3	

Standards used: 1=S7320 2=S7216 3=S7591

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527449989

Instrument : MSBNA03 Begun : 11/08/07 11:49
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vk801	TUN	DFTPP/PEM 50UG/ML			11/08/07 11:49	1.0	1	
002	vk802	TUN	DFTPP/PEM 50UG/ML			11/08/07 15:53	1.0	1	
003	vk803	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:04	1.0	1	
004	vk804	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:23	1.0	1	
005	vk805	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:51	1.0	1	
006	vk806	CCV	RTUPDATE - SCAN MODE			11/08/07 18:11	1.0	2	16:BZBF=16
007	vk807	CCV	RTUPDATE - SIM MODE			11/08/07 20:32	1.0	2	16:DIOXANE14=94
008	vk808	TUN	DFTPP/PEM 50UG/ML			11/08/07 21:18	1.0	1	
009	vk809	ICAL	ICAL1			11/08/07 21:39	1.0	3	
010	vk810	ICAL	ICAL2			11/08/07 22:12	1.0	4	
011	vk811	ICAL	ICAL3			11/08/07 22:46	1.0	5	
012	vk812	ICAL	ICAL4			11/08/07 23:21	1.0	6	
013	vk813	ICAL	ICAL5			11/08/07 23:56	1.0	7	
014	vk814	ICAL	ICAL6			11/09/07 00:32	1.0	8	
015	vk815	ICAL	ICAL7			11/09/07 01:04	1.0	2	
016	vk816	ICV	1/10 ICV			11/09/07 01:38	1.0	9	

Analyst: JAJ Date: 11/12/07 Reviewer: LW Date: 11/12/07

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527455616

Instrument : MSBNA03 Begun : 11/12/07 09:36
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vkc01	TUN	DFTPP/PEM 50UG/ML			11/12/07 09:36	1.0	1
002	vkc02	TUN	DFTPP/PEM 50UG/ML			11/12/07 10:17	1.0	1
003	vkc03	TUN	DFTPP/PEM 50UG/ML			11/12/07 10:36	1.0	1
004	vkc04	CCV	2/10UG/ML			11/12/07 10:58	1.0	2
005	vkc05	BLANK	QC414821	Soil	131580	11/12/07 11:32	1.0	3
006	vkc06	LCS	QC414822	Soil	131580	11/12/07 12:07	1.0	3
007	vkc07	MSS	199042-003	Soil	131580	11/12/07 12:41	1.0	3
008	vkc08	MS	QC414823	Soil	131580	11/12/07 13:16	1.0	3
009	vkc09	SAMPLE	199030-017	Soil	131452	11/12/07 13:49	5.0	3
010	vkc10	SAMPLE	199030-018	Soil	131452	11/12/07 14:22	1.0	3
011	vkc11	MSD	QC414824	Soil	131580	11/12/07 14:58	1.0	3
012	vkc12	SAMPLE	199060-005	Soil	131580	11/12/07 15:31	1.0	3
013	vkc13	SAMPLE	199025-015	Soil	131580	11/12/07 16:06	1.0	3
014	vkc14	SAMPLE	199025-013	Soil	131580	11/12/07 16:39	1.0	3

Standards used: 1=S7320 2=S7217 3=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537440171

Instrument : MSBNA04 Begun : 11/01/07 16:11
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	wk101	CCV	RT CHECK			11/01/07 16:11	1.0	1
002	wk102	CCV	RT CHECK			11/01/07 17:11	1.0	2
003	wk103	TUN	DFTPP/PEM 50NG			11/01/07 17:47	1.0	3
004	wk104	ICAL	0.1/0.5UG/ML			11/01/07 18:18	1.0	2
005	wk105	ICAL	0.2/1.0UG/ML			11/01/07 18:49	1.0	4
006	wk106	ICAL	0.5/2.5UG/ML			11/01/07 19:18	1.0	5
007	wk107	ICAL	1.0/5.0UG/ML			11/01/07 19:47	1.0	6
008	wk108	ICAL	2.0/10.0UG/ML			11/01/07 20:17	1.0	7
009	wk109	ICAL	5.0/25.0UG/ML			11/01/07 20:46	1.0	8
010	wk110	ICAL	10.0/50.0UG/ML			11/01/07 21:16	1.0	1

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

Standards used: 1=S7219 2=S7213 3=S7320 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537441645

Instrument : MSBNA04 Begun : 11/02/07 16:45
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	wk201	TUN	DFTPP/PEM 50UG/ML			11/02/07 16:45	1.0	1
002	wk202	ICV	10/1UG/ML			11/02/07 17:17	1.0	2
003	wk203	MDL	190190-001	Water	118674	11/02/07 18:24	1.0	3
004	wk204	MDL	190190-002	Water	118674	11/02/07 18:53	1.0	3
005	wk205	MDL	190190-003	Water	118674	11/02/07 19:22	1.0	3
006	wk206	MDL	190190-004	Water	118674	11/02/07 19:51	1.0	3
007	wk207	MDL	190190-005	Water	118674	11/02/07 20:20	1.0	3
008	wk208	MDL	190190-006	Water	118674	11/02/07 20:49	1.0	3
009	wk209	MDL	190190-007	Water	118674	11/02/07 21:20	1.0	3
010	wk210	MDL	190190-008	Water	118674	11/02/07 21:49	1.0	3
011	wk211	MDL	187655-001	Soil	118707	11/02/07 22:18	1.0	3
012	wk212	MDL	187655-002	Soil	118707	11/02/07 22:47	1.0	3
013	wk213	MDL	187655-003	Soil	118707	11/02/07 23:16	1.0	3
014	wk214	MDL	187655-004	Soil	118707	11/02/07 23:46	1.0	3
015	wk215	MDL	187655-005	Soil	118707	11/03/07 00:16	1.0	3
016	wk216	MDL	187655-006	Soil	118707	11/03/07 00:44	1.0	3
017	wk217	MDL	187655-007	Soil	118707	11/03/07 01:14	1.0	3
018	wk218	MDL	187655-008	Soil	118707	11/03/07 01:42	1.0	3

Standards used: 1=S7320 2=S7592 3=S6891

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537450230

Instrument : MSBNA04 Begun : 11/08/07 15:50
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	wk801	TUN	DFTPP/PEM 50UG/ML			11/08/07 15:50	1.0	1
002	wk802	CCV	1/5UG/ML			11/08/07 16:10	1.0	2
003	wk803	BLANK	QC414296	Soil	131452	11/08/07 16:44	1.0	3
004	wk804	LCS	QC414297	Soil	131452	11/08/07 17:13	1.0	3
005	wk805	BLANK	QC414296	Soil	131452	11/08/07 17:51	1.0	3
006	wk806	TUN	DFTPP/PEM 50UG/ML			11/08/07 18:34	1.0	1
007	wk807	CCV	1/5UG/ML			11/08/07 18:55	1.0	2
008	wk808	BLANK	QC414296	Soil	131452	11/08/07 19:24	1.0	3
009	wk809	LCS	QC414297	Soil	131452	11/08/07 19:54	1.0	3
010	wk810	SAMPLE	199006-001	Soil	131452	11/08/07 20:31	1.0	3
011	wk811	SAMPLE	199030-017	Soil	131452	11/08/07 21:46	5.0	3
012	wk812	SAMPLE	199030-018	Soil	131452	11/08/07 22:15	5.0	3

Standards used: 1=S7320 2=S7216 3=S7591

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537451529

Instrument : MSBNA04 Begun : 11/09/07 13:29
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	wk901	TUN	DFTPP/PEM 50UG/ML			11/09/07 13:29	1.0	1
002	wk902	CCV	2.0/10 UG/ML			11/09/07 14:23	1.0	2
003	wk903	SAMPLE	199008-023	Soil	131452	11/09/07 15:01	1.0	3
004	wk904	MS	QC414298	Soil	131452	11/09/07 15:30	1.0	3
005	wk905	MSD	QC414299	Soil	131452	11/09/07 16:00	1.0	3
006	wk906	CCV	1.0/5 UG/ML			11/09/07 17:21	1.0	4
007	wk907	SAMPLE	199008-023	Soil	131452	11/09/07 18:01	1.0	3
008	wk908	MS	QC414298	Soil	131452	11/09/07 18:30	1.0	3
009	wk909	MSD	QC414299	Soil	131452	11/09/07 18:58	1.0	3

Standards used: 1=S7320 2=S7217 3=S7591 4=S7216

REPORTING SUMMARY FOR 199042 8270-SIM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FLH	PHAN	AANH	FLA	PYR	BZAA	CHRY	BZBF	BKF	BAP	INP1	DBAH	BZGH	NO2B	PHEN	PHEN2
199042-003	MSBNA02	11/09/07 03:21	1.0																				
199042-003	MSBNA02	11/09/07 12:07	1.0																				
199042-003	MSBNA03	11/12/07 12:41	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
199042-004	MSBNA02	11/08/07 19:56	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
199042-005	MSBNA02	11/08/07 20:32	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414296	MSBNA04	11/08/07 16:44	1.0																				
QC414296	MSBNA04	11/08/07 17:51	1.0																				
QC414296	MSBNA04	11/08/07 19:24	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414297	MSBNA04	11/08/07 17:13	1.0																				
QC414297	MSBNA04	11/08/07 19:54	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414298	MSBNA02	11/09/07 03:57	1.0																				
QC414298	MSBNA04	11/09/07 15:30	1.0																				
QC414298	MSBNA04	11/09/07 18:30	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414299	MSBNA02	11/09/07 04:35	1.0																				
QC414299	MSBNA04	11/09/07 16:00	1.0																				
QC414299	MSBNA04	11/09/07 18:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414821	MSBNA03	11/12/07 11:32	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414822	MSBNA03	11/12/07 12:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414823	MSBNA03	11/12/07 13:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC414824	MSBNA03	11/12/07 14:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SAMPLE PREPARATION SUMMARY

Batch # : 131452
Started By : SFH
Method : 3550B
Spike #1 ID : S7474

Prep Date : 08-NOV-2007

Spike #2 ID : S7566

Analysis : SIM
Finished By : SFH
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198903-007		Soil	30.1	1	1	0.03322		1				8270-SIM	
199006-001		Soil	30.25	1	1	0.03306		1				14DIOXANE	
199008-001		Soil	30.15	1	1	0.03317		1				8270-SIM	
199008-006		Soil	30	1	1	0.03333		1				8270-SIM	
199008-009		Soil	30	1	1	0.03333		1				8270-SIM	
199008-010		Soil	30.01	1	1	0.03332		1				8270-SIM	
199008-014		Soil	30.19	1	1	0.03312		1				8270-SIM	
199008-017		Soil	30.08	1	1	0.03324		1				8270-SIM	
199008-021		Soil	30.12	1	1	0.0332		1				8270-SIM	
199008-023		Soil	30.07	1	1	0.03326		1				8270-SIM	
199021-003		Soil	30.09	1	1	0.03323		1				8270-SIM	
199025-003		Soil	30.1	1	1	0.03322		1				8270-SIM	
199025-006		Soil	30.16	1	1	0.03316		1				8270-SIM	
199025-008		Soil	30.26	1	1	0.03305		1				8270-SIM	
199025-012		Soil	30.16	1	1	0.03316		1				8270-SIM	
199030-017		Soil	30.09	1	1	0.03323		1				8270-SIM	
199030-018		Soil	30.2	1	1	0.03311		1				8270-SIM	
199042-003		Soil	29.81	1	1	0.03355		1				(rebatched)	MSS, silt in final sample
199042-004		Soil	29.97	1	1	0.03337		1				8270-SIM	
199042-005		Soil	30.33	1	1	0.03297		1				8270-SIM	
QC414296	BLANK	Soil	30.04	1	1	0.03329		1					
QC414297	LCS	Soil	30.1	1	1	0.03322		1	1				
QC414298	MS	Soil	30.11	1	1	0.03321		1	1				silt in final sample
QC414299	MSD	Soil	29.76	1	1	0.0336		1	1				silt in final sample

LLH 11/09/07 : reviewed paperwork

AD 11/09/07 : Reviewed paperwork

AD 11/12/07 : OK to use for MSS results to report MS/MSD per TKM.

Analyst: LLH Date: 11/12/07 Reviewer: AD Date: 11/12/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 1 **BK 2614**

LIMS Batch No: 131452 Extraction Method:

LIMS Analysis: 8270-SIM / 1,4-Dioxane ☑ EPA 3550b Sonication

Date Extracted: 11/8/07 ☐ Other _____

Cleanup Method (if necessary):

☐ EPA 3640a GPC

☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198903-007 G	30.00	1.0		
	199006-001 A	30.25			
	199008-001 A	30.15			
	-006	30.00			
5	-009	30.00			
	-010	30.01			
	-014	30.19			
	-017	30.08			
	-021	30.12			
10	-023	30.07			
	199021-003 A	30.09			
	199025-003 A	30.10			
	-006	30.16			
	-008	30.26			
15	-012	30.16			
	199030-017 A	30.09			
	-018 SFH 11/8	30.20			
	199042-003 ~~A~~ B	29.81			MS, silt in final sample
	-004 A	29.97			
20	-005 A	30.33			
	MB QC414296	30.04			
	LCS 7	30.10			
	MS 8	30.11			silt in final sample
	MSD 9	29.76			silt in final sample
					SFH 11/6/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM47158737	SFH 11/8/07
1.0 mL of surrogate solution was added to all samples	57474	
1.0 mL of matrix spiking solution was added to all spikes	57566C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM47158	
Acetone	EM47156	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47073734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓	

11/8/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/8/07
Reviewed by / Date

Project SOIL ALIQUOT BK 2588

Continued from Page —

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
198986-040A	30.29	8081		MSS
MB	30.01	↓		EM47158737
LCS	30.35			↓
MS	30.20			198986-040A
MSD	30.01	↓		↓
				SFH 11/7/07
199006-001A	50.10	TEH		
				ECB 11/7/07
199006-001A	30.25	1,4 DIOXANE	131452	
				ECB 11/7/07
198903-007G	50.19	TEHM		
				ECB 11/7/07
198903-007G	30.10	8270-SIM	131452 ~~131511~~ HR 11/14/07	
				ECB 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL ALIQUOT BK 2588 125

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH#	COMMENTS
199009-001A	50.07	TEHM		MS5
-002	50.31			
-003	50.07			
-004	50.00			
-005	50.26			
-006	50.26			
-007	50.03			
-008	50.04			
-009	50.03			
-010	50.00			
-011	50.15			
-012	50.24			
-013	50.24			
MB	50.29			EM47158737
LCS	50.10			199009-001A
MS	50.02			
MSD	50.11			
				ECB 11/7/07
199025-003A	30.10	SIM	11/8/07 KR ~~131547~~ 131982	
-006	30.16			
-008	30.26			
-012	30.16			
-013	30.00			
-015	30.03			
-016	30.00			
-019	30.00			
				ECB 11/7/07

Continued on Page

Read and Understood By

Signed Date

Project Soil Aliquot

BK 2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199008-001 A	30.15	Sim	KR 11/8/07 ~~131542~~ 131452	
-006	30.00			
-009	30.00			
-010	30.01			
-014	30.19			
-017	30.08			
-021	30.12			
-023	30.07			
				ECB 11/7/07
198959-003 A	30.21	Sim		
-005	30.22			
-008	30.10			
-011	30.25			
-014	30.19			
-017	30.15			
-019	30.31			
-022	30.25			
-025	30.13			
-028	30.16			
-031	30.13			
-033	30.06			
				ECB 11/7/07
199030-017 A	50.05	TEHM		
-018	50.14			
				ECB 11/7/07
199030-017 A	30.09	Sim	131542	
-018	30.20			
				ECB 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL Aliquot BK 2588 129

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199021-003A	30.09	8270-SIM	VR ~~A31542~~ 11/8/07 121452	
199042-003B	29.81			
4A	29.97			
5A	30.33			
MB	30.04			EMC7158737
LCS	30.10			
MS	30.11			199042-003
MSD	29.76			
				JJB 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

00161

SAMPLE PREPARATION SUMMARY

Batch # : 131580
Started By : KR
Method : 3550B
Spike #1 ID : S7612
Prep Date : 10-NOV-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7566
Analysis : 8270-SIM
Finished By : KR
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
198959-003		Soil	30.21	1	1	0.0331		1				8270-SIM	
198959-005		Soil	30.22	1	1	0.03309		1				8270-SIM	
198959-008		Soil	30.1	1	1	0.03322		1				8270-SIM	
198959-011		Soil	30.25	1	1	0.03306		1				8270-SIM	
198959-014		Soil	30.19	1	1	0.03312		1				8270-SIM	
198959-017		Soil	30.15	1	1	0.03317		1				8270-SIM	
198959-019		Soil	30.31	1	1	0.03299		1				8270-SIM	
198959-022		Soil	30.25	1	1	0.03306		1				8270-SIM	
198959-025		Soil	30.13	1	1	0.03319		1				8270-SIM	
198959-028		Soil	30.16	1	1	0.03316		1				8270-SIM	
198959-031		Soil	30.13	1	1	0.03319		1				8270-SIM	
198959-033		Soil	30.06	1	1	0.03327		1				8270-SIM	
199025-013		Soil	30	1	1	0.03333		1				8270-SIM	
199025-015		Soil	30.03	1	1	0.0333		1				8270-SIM	
199025-016		Soil	30	5	1	0.1667		1				8270-SIM	
199025-019		Soil	30	10	1	0.3333		1				8270-SIM	
199042-003		Soil	29.99	1	1	0.03334		1				8270-SIM	mss
199060-004		Soil	30.01	1	1	0.03332		1				8270-SIM	
199060-005		Soil	30.05	1	1	0.03328		1				8270-SIM	
199068-002		Soil	30.05	1	1	0.03328		1				8270-SIM	
QC414821	BLANK	Soil	30.23	1	1	0.03308		1				8270-SIM	
QC414822	LCS	Soil	30.4	1	1	0.03289		1	1			8270-SIM	
QC414823	MS	Soil	29.83	1	1	0.03352		1	1			8270-SIM	
QC414824	MSD	Soil	29.73	1	1	0.03364		1	1			8270-SIM	

AD 11/12/07 : Reviewed paperwork.

LLH 11/12/07 : reviewed paperwork

Analyst: AD Date: 11/12/07 Reviewer: JGM Date: 11/12/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 3 **BK 2614**

LIMS Batch No: 131580
LIMS Analysis 8270-SVM
Date Extracted: 11/10/07

Extraction Method:
☑ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	198959-003 A	30.21	1.0		
	5	30.22			
	8	30.10			
	11	30.25			
5	14	30.19			
	17	30.15			
	19	30.31			
	22	30.25			
	25	30.13			
10	28	30.16			
	31	30.13			
	33	30.06			
	199025-013 A	30.00			
	15	30.03			
15	16	30.00	5.0*		
	19	30.00	10.0*		
	199042-003A	29.99	1.0		MSS re-extract
	199060-004 A	30.01			
	5	30.05			
20	199068-002 A	30.05			
	BLANK QC414821	30.23			
	LCS 2	30.40			
	MS 3	29.83			
	MSD 4	29.73			
					RCW 11/11/07

* SAMPLES WOULD NOT CONC FURTHER – KR 11/10/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM971587 37	11/10/07 KR
1.0 mL of surrogate solution was added to all samples	S7612A	
1.0 mL of matrix spiking solution was added to all spikes	S7506B	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM97158	
Acetone	EM97190	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47073734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	BNA 2° Freezer	✓

11/10/07
Extraction Chemist / Date

Continued from page —
Continued on page _____

11/11/07
Reviewed by / Date

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH#	COMMENTS
199009-001A	50.07	TEHM		MS5
-002	50.31			
-003	50.07			
-004	50.00			
-005	50.26			
-006	50.26			
-007	50.03			
-008	50.04			
-009	50.03			
-010	50.00			
-011	50.15			
-012	50.24			
-013	50.24			
MB	50.29		EM47158737	
LCS	50.10		199009-001A	
MS	50.02			
MSD	50.11		ECB 11/7/07	
199025-003A	30.10	SIM	131580	
-006	30.16			
-008	30.26			
-012	30.16			
-013	30.60			
-015	30.03			
-016	30.00			
-019	30.00		ECB 11/7/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL Aliquot BK 2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199008-001 A	30.15	SIM		
-006	30.00			
-009	30.00			
-010	30.01			
-014	30.19			
-017	30.08			
-021	30.12			
-023	30.07			
				ECB 11/7/07
198959-003 A	30.21	SIM	131580	
-005	30.22			
-008	30.10			
-011	30.25			
-014	30.19			
-017	30.15			
-019	30.31			
-022	30.25			
-025	30.13			
-028	30.16			
-031	30.13			
-033	30.06			
				ECB 11/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
199058-MSD	30.04	B270		199058-011J
			ECB 11/7/07	
			ECB 11/8/07	
199058-001D	30.08	PCB		
-002	30.09			
-003	30.12			
-004	30.02			
-005	30.05			
-006	30.10			
-007	30.03			
-008 ECB 11/7	30.16			
~~-8~~ -009D	30.10			
-010D	30.03			
-011K	30.25			MSS
-012D	30.27			
-013	30.04			
-014	30.09			
MB	30.24			EM47158737
LCS	30.29			↓
MS	30.01			199058-011K
MSD	30.06			↓
			ECB 11/7/07	
			ECB 11/8/07	
199052-001A	30.06	PCB		
-002	30.00			
-003	30.08			
-004	30.06			
-005	30.04			
-006	30.05			
-007	30.28			
-008	30.08			
-009	30.00			
			ECB ~~11/8/07~~	
199060-004A	30.01	Sim	181580	ECB 11/8/07
-005	30.05			ECB 11/8/07
				ECB ~~11/7/07~~

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BF 2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199060-004 A	50.25	TEHM		
-005	50.04			
				ECB 11/8/07
199068-001 A	50.13	TEHM		ECB 11/8/07
-002	50.27			
-003	50.21			
-004	50.04			
-005	50.04			
-006	50.07			
-007	50.03			
-008	50.16			
-009	50.01			
-010	50.32			
-012	50.04			
-014	50.27			
-015	50.04			
-016	50.08			
-017	50.30			
-018	50.02			
-019	50.24			MS
~~-020~~ ECB 11/8 -021	50.21			
-022	50.15			
-023	50.04			
-024	50.15			
MB	50.06			
LCS	50.07			EM4715 8737
MS	50.05			199068-018A
MSD	50.15			
				ECB 11/8/07
199068-002 A	30.05	Sim	131580	
-005	30.35			
-007	30.11			
-014	30.18			
-016	30.25			
-021	30.01			

Continued on Page ECB 11/8/07

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588 139

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199138-001 G	50.32	TEH		
-002	50.12			
-003	50.03			
			ECB 11/10/07	
199140-009	50.05	TEHM		COMP - 001, 002, 003, 004 ALL LETTER A @ 20g each; 005, 006, 007, 008 ALL LETTER A @ 20g each
-010	50.09			
			ECB 11/10/07	
199132-009	50.35	TEHM		COMP - 005, 006, 007, 008 ALL LETTER A @ 20g each
			ECB 11/10/07	
BLANK	30.23	8270 SIM	131580	FM 47158737
LCS	30.10			↓
MS	29.83			199042-003A
MSD	29.73			↓
199042-003A	29.99			MSS
				KR 11/10/07

Continued on Page

Read and Understood By

Signed Date Signed Date

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199042	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX363[8.0]	Basis:	dry
Lab ID:	199042-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/07/07
Units:	mg/Kg	Received:	11/07/07

Moisture: 19%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.2	0.62	0.034	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Arsenic	4.9	0.31	0.061	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Barium	110	0.31	0.0057	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Beryllium	0.42	0.12	0.0025	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.31	0.0032	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Chromium	69	0.31	0.020	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Cobalt	12	0.31	0.0095	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Copper	15	0.31	0.034	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Lead	5.1	0.28	0.093	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Mercury	0.031	0.025	0.0056	131526	11/09/07	11/09/07	METHOD	EPA 7471A
Molybdenum	0.17 J	0.31	0.027	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Nickel	42	0.31	0.022	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Selenium	1.0	0.62	0.095	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Silver	ND	0.31	0.022	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Thallium	ND	0.62	0.042	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Vanadium	59	0.31	0.026	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Zinc	38	1.2	0.034	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199042	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX364[6.0]	Basis:	dry
Lab ID:	199042-004	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/07/07
Units:	mg/Kg	Received:	11/07/07

Moisture: 17%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	3.1	0.60	0.031	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Arsenic	4.0	0.30	0.056	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Barium	55	0.30	0.0053	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Beryllium	0.20	0.12	0.0023	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.30	0.0030	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Chromium	100	0.30	0.019	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Cobalt	8.2	0.30	0.0088	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Copper	10	0.30	0.031	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Lead	4.9	0.26	0.086	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Mercury	0.017 J	0.024	0.0052	131526	11/09/07	11/09/07	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.025	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Nickel	59	0.30	0.020	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Selenium	0.53 J	0.60	0.088	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.020	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Thallium	0.23 J	0.60	0.039	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Vanadium	58	0.30	0.024	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Zinc	32	1.2	0.032	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199042	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX365[6.5]	Basis:	dry
Lab ID:	199042-005	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	mg/Kg		

Moisture: 16%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	3.5	0.60	0.033	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Arsenic	3.0	0.30	0.059	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Barium	51	0.30	0.0056	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Beryllium	0.19	0.12	0.0024	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.30	0.0032	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Chromium	63	0.30	0.020	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Cobalt	11	0.30	0.0093	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Copper	11	0.30	0.033	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Lead	22	0.27	0.091	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Mercury	2.0	0.099	0.026	5.000	131526	11/09/07	11/09/07	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.027	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Nickel	45	0.30	0.021	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.093	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Silver	0.046 J	0.30	0.022	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Thallium	0.12 J	0.60	0.041	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Vanadium	63	0.30	0.025	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B
Zinc	47	1.2	0.033	1.000	131445	11/07/07	11/08/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC414260	Batch#:	131445
Matrix:	Soil	Prepared:	11/07/07
Units:	mg/Kg	Analyzed:	11/08/07
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.027
Arsenic	ND	0.25	0.050
Barium	0.0066 J	0.25	0.0047
Beryllium	ND	0.10	0.0021
Cadmium	0.0052 J	0.25	0.0027
Chromium	0.029 J	0.25	0.017
Cobalt	0.013 J	0.25	0.0078
Copper	ND	0.25	0.028
Lead	ND	0.23	0.076
Molybdenum	0.034 J	0.25	0.022
Nickel	ND	0.25	0.018
Selenium	ND	0.50	0.078
Silver	0.057 J	0.25	0.018
Thallium	ND	0.50	0.034
Vanadium	0.024 J	0.25	0.021
Zinc	0.029 J	1.0	0.028

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC414594	Batch#:	131526
Matrix:	Soil	Prepared:	11/09/07
Units:	mg/Kg	Analyzed:	11/09/07

Result	RL	MDL
ND	0.020	0.0052

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

23.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	131445
Units:	mg/Kg	Prepared:	11/07/07
Basis:	as received	Analyzed:	11/08/07
Diln Fac:	1.000		

Type: BS Lab ID: QC414261

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	92.56	93	75-125
Arsenic	50.00	50.11	100	75-125
Barium	100.0	94.21	94	75-125
Beryllium	2.500	2.440	98	75-125
Cadmium	10.00	9.688	97	75-125
Chromium	100.0	91.74	92	75-125
Cobalt	25.00	22.50	90	75-125
Copper	12.50	11.39	91	75-125
Lead	100.0	92.94	93	75-125
Molybdenum	20.00	19.38	97	75-125
Nickel	25.00	22.92	92	75-125
Selenium	50.00	47.63	95	75-125
Silver	10.00	8.845	88	75-125
Thallium	50.00	46.02	92	75-125
Vanadium	25.00	23.02	92	75-125
Zinc	25.00	23.58	94	75-125

Type: BSD Lab ID: QC414262

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	93.51	94	75-125	1	30
Arsenic	50.00	50.29	101	75-125	0	30
Barium	100.0	94.37	94	75-125	0	30
Beryllium	2.500	2.432	97	75-125	0	30
Cadmium	10.00	9.704	97	75-125	0	30
Chromium	100.0	91.80	92	75-125	0	30
Cobalt	25.00	22.59	90	75-125	0	30
Copper	12.50	11.40	91	75-125	0	30
Lead	100.0	92.73	93	75-125	0	30
Molybdenum	20.00	19.40	97	75-125	0	30
Nickel	25.00	22.94	92	75-125	0	30
Selenium	50.00	47.49	95	75-125	0	30
Silver	10.00	8.849	88	75-125	0	30
Thallium	50.00	45.87	92	75-125	0	30
Vanadium	25.00	22.99	92	75-125	0	30
Zinc	25.00	23.31	93	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131526
Units:	mg/Kg	Prepared:	11/09/07
Basis:	as received	Analyzed:	11/09/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC414595	0.5000	0.5210	104	75-125		
BSD	QC414596	0.5000	0.5220	104	75-125	0	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX363[8.0]	Batch#:	131445
MSS Lab ID:	199042-003	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	mg/Kg	Prepared:	11/07/07
Basis:	dry	Analyzed:	11/08/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC414263

Moisture: 19%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	5.207	115.4	49.41	38 *	75-125
Arsenic	4.876	57.69	56.59	90	75-125
Barium	106.7	115.4	198.9	80	75-125
Beryllium	0.4212	2.885	3.031	90	75-125
Cadmium	<0.003239	11.54	10.19	88	75-125
Chromium	69.43	115.4	164.0	82	75-125
Cobalt	12.37	28.85	35.35	80	75-125
Copper	15.48	14.42	35.62	140 * P	75-125
Lead	5.190	115.4	105.3	87	75-125
Molybdenum	0.1676	23.08	18.67	80	75-125
Nickel	41.92	28.85	66.63	86 P	75-125
Selenium	0.7057	57.69	50.99	87	75-125
Silver	<0.02222	11.54	9.951	86	75-125
Thallium	<0.04198	57.69	45.90	80	75-125
Vanadium	59.28	28.85	87.54	98 P	75-125
Zinc	37.98	28.85	69.40	109 P	75-125

Type: MSD
Lab ID: QC414264

Moisture: 19%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	115.4	49.89	39 *	75-125	1	30
Arsenic	57.69	56.75	90	75-125	0	30
Barium	115.4	200.6	81	75-125	1	30
Beryllium	2.885	3.001	89	75-125	1	30
Cadmium	11.54	9.987	87	75-125	2	30
Chromium	115.4	166.3	84	75-125	1	30
Cobalt	28.85	34.83	78	75-125	1	30
Copper	14.42	32.47	118 P	75-125	9	30
Lead	115.4	106.6	88	75-125	1	30
Molybdenum	23.08	18.70	80	75-125	0	30
Nickel	28.85	66.84	86 P	75-125	0	30
Selenium	57.69	49.29	84	75-125	3	30
Silver	11.54	9.863	85	75-125	1	30
Thallium	57.69	44.55	77	75-125	3	30
Vanadium	28.85	85.50	91 P	75-125	2	30
Zinc	28.85	68.58	106 P	75-125	1	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

24.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	1065EX363[8.0]	Batch#:	131526
MSS Lab ID:	199042-003	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	mg/Kg	Prepared:	11/09/07
Basis:	dry	Analyzed:	11/09/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC414598	0.03097	0.5060	0.7165	135 *	75-125	19%		
MSD	QC414599		0.6052	0.6633	104	75-125	19%	25	35

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

28.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	131526
MSS Lab ID:	199058-011	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	mg/Kg	Prepared:	11/09/07
Basis:	as received	Analyzed:	11/09/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC414601	0.03173	0.4902	0.5392	104	75-125		
MSD	QC414602		0.4808	0.5337	104	75-125	1	35

RPD= Relative Percent Difference

30.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX363[8.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	199042-003	Batch#:	131445
Lab ID:	QC414265	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	mg/Kg	Analyzed:	11/08/07

Moisture: 19%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	5.207	0.6173	4.280	1.528	18 *	10
Arsenic	4.876	0.3086	4.552	1.528	7	10
Barium	106.7	0.3086	110.3	1.528	3	10
Beryllium	0.4212	0.1235	0.4499 J	0.6112	7	10
Cadmium	ND	0.3086	ND	1.528	NC	10
Chromium	69.43	0.3086	71.52	1.528	3	10
Cobalt	12.37	0.3086	13.31	1.528	8	10
Copper	15.48	0.3086	15.52	1.528	0	10
Lead	5.190	0.2803	5.525	1.401	6	10
Molybdenum	0.1676	0.3086	0.1861 J	1.528	NC	10
Nickel	41.92	0.3086	44.57	1.528	6	10
Selenium	0.7057	0.6173	1.594	1.528	NC	10
Silver	ND	0.3086	ND	1.528	NC	10
Thallium	ND	0.6173	ND	1.528	NC	10
Vanadium	59.28	0.3086	59.79	1.528	1	10
Zinc	37.98	1.235	39.87	6.112	5	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

25.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131526
MSS Lab ID:	199058-011	Sampled:	11/07/07
Lab ID:	QC414600	Received:	11/07/07
Matrix:	Soil	Analyzed:	11/09/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	% Diff	Lim
0.03173	0.02000	ND	0.09615	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	1065EX363[8.0]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131526
MSS Lab ID:	199042-003	Sampled:	11/07/07
Lab ID:	QC414597	Received:	11/07/07
Matrix:	Soil	Analyzed:	11/09/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.03097	0.02469	ND	0.1083	19%	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : PDS
Inst : MET08
Seqnum : 87449826016
File : 110807r
IDF : 1.0
Lab ID : QC414266
Matrix : Soil
Batch : 131445
Time : 08-NOV-2007 10:07
Cal : 87449826001
MSS : 199042-003
Units : ug/L

PDS: 1.01 g --> 50.0 ml = 49.50 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS Seqnum	Result	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	87449826014	85.20	A	2000	1934	A	92	75-125	u
Arsenic	87449826014	79.78	A	1000	1022	A	94	75-125	u
Barium	87449826014	1745	A	2000	3547	A	90	75-125	u
Beryllium	87449826014	6.892	A	50.00	53.20	A	93	75-125	u
Cadmium	87449826014	ND	A	200.0	178.1	A	89	75-125	u
Calcium	87449826014	31580	R	20000	50650	R	95	75-125	u
Chromium	87449826014	1136	A	2000	2857	A	86	75-125	u
Cobalt	87449826014	203.1	A	500.0	622.8	A	84	75-125	u
Copper	87449826014	253.3	A	250.0	476.7	A	89	75-125	u
Lead	87449826014	83.62	A	2000	1789	A	85	75-125	u
Magnesium	87449826014	66950	R	20000	86340	R	97	75-125	u
Manganese	87449826014	6983	A	500.0	7312	A	66	75-125	: u
Molybdenum	87449826014	2.742	A	400.0	374.5	A	93	75-125	u
Nickel	87449826014	685.8	A	500.0	1113	A	85	75-125	u
Potassium	87449826014	10250	R	10000	19810	R	96	75-125	u
Selenium	87449826028	11.55	A	1000	932.0	A	92	75-125	u
Silver	87449826014	ND	A	200.0	175.7	A	88	75-125	u
Sodium	87449826014	2156	R	20000	20740	R	93	75-125	u
Thallium	87449826014	ND	A	1000	818.5	A	82	75-125	u
Vanadium	87449826014	969.9	A	500.0	1401	A	86	75-125	u
Zinc	87449826014	621.4	A	500.0	1050	A	86	75-125	u
Boron	87449826014	94.09	A	1000	971.3	A	88	75-125	u
Tin	87449826014	7.235	A	1000	914.1	A	91	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2893029	2760338	-4.59

MISSING READINGS: **AL FE TI**

:=recovery not meaningful u=use

87449826016

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : PDS
Inst : MET08
Seqnum : 87450029016
File : 110807ar
IDF : 1.0
Lab ID : QC414266
Matrix : Soil
Batch : 131445
Time : 08-NOV-2007 13:40
Cal : 87450029001
MSS : 199042-003
Units : ug/L

PDS: 1.01 g --> 50.0 ml = 49.50 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS Seqnum	Result	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	87449826014	85.20	A	2000	1895	A	90	75-125	
Arsenic	87449826014	79.78	A	1000	1033	A	95	75-125	
Barium	87449826014	1745	A	2000	3571	A	91	75-125	
Beryllium	87449826014	6.892	A	50.00	51.84	A	90	75-125	
Cadmium	87449826014	ND	A	200.0	170.4	A	85	75-125	
Calcium	87450029014	32740	R	20000	49950	R	86	75-125	
Chromium	87449826014	1136	A	2000	2830	A	85	75-125	
Cobalt	87449826014	203.1	A	500.0	604.4	A	80	75-125	
Copper	87449826014	253.3	A	250.0	490.0	A	95	75-125	
Lead	87449826014	83.62	A	2000	1764	A	84	75-125	
Magnesium	87450029014	70290	R	20000	86100	R	79	75-125	
Manganese	87450029014	7015	A	500.0	7231	A	43	75-125	:
Molybdenum	87449826014	2.742	A	400.0	364.3	A	90	75-125	
Nickel	87449826014	685.8	A	500.0	1072	A	77	75-125	
Potassium	87449826014	10250	R	10000	19630	R	94	75-125	>c- **b***
Selenium	87449826028	11.55	A	1000	910.8	A	90	75-125	
Silver	87449826014	ND	A	200.0	173.3	A	87	75-125	
Sodium	87449826014	2156	R	20000	21000	R	94	75-125	>c- **b***
Thallium	87449826014	ND	A	1000	809.2	A	81	75-125	
Vanadium	87449826014	969.9	A	500.0	1388	A	84	75-125	
Zinc	87449826014	621.4	A	500.0	1027	A	81	75-125	
Boron	87450029014	94.02	A	1000	964.4	A	87	75-125	u
Tin	87450029014	3.932	A	1000	897.9	A	89	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2943760	2908881	-1.18

MISSING READINGS: **AL FE TI**

-=low bias :=recovery not meaningful >=closing b=noncompliant c=CCV u=use

87450029016

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87449826001
Units : ug/L

Date : 08-NOV-2007 09:06
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110807r	87449826002	CRIM08	08-NOV-2007 09:09	S7555
L2	110807r	87449826003	CS100	08-NOV-2007 09:13	S7382
L3	110807r	87449826004	CS1K	08-NOV-2007 09:16	S7381
L4	110807r	87449826005	CS10K	08-NOV-2007 09:21	S7383
L5	110807r	87449826006	CS100K	08-NOV-2007 09:25	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	24.798	26.169	26.181	26.718		LOR0	0.00000	0.03744		25.966	1.000	0.995	
Arsenic	A	13.602	16.091	16.287	16.301		LOR0	0.00000	0.06135		15.570	1.000	0.995	
Barium	A	473.76	438.58	431.34	424.21		LOR0	0.00000	0.00236		441.97	1.000	0.995	
Beryllium	A	3160.7	3098.5	3076.0			LOR0	0.00000	3.25E-4		3111.7	1.000	0.995	
Boron	A	165.17		165.77	171.26		LOR0	0.00000	0.00584		167.40	1.000	0.995	
Cadmium	A	206.96	207.03	207.07	202.95		LOR0	0.00000	0.00493		206.00	1.000	0.995	
Chromium	A	66.599	65.725	65.233	65.144		LOR0	0.00000	0.01535		65.675	1.000	0.995	
Cobalt	A	114.26	114.96	116.61	115.75		LOR0	0.00000	0.00864		115.39	1.000	0.995	
Copper	A	448.38	408.68	407.73	414.29		LOR0	0.00000	0.00241		419.77	1.000	0.995	
Lead	A	33.642	43.185	42.707	41.801		LOR0	0.00000	0.02392		40.334	1.000	0.995	
Manganese	A	1427.3	1366.6	1333.6	1296.4		LOR0	0.00000	7.71E-4		1356.0	1.000	0.995	
Molybdenum	A	31.774	31.635	31.228	31.186		LOR0	0.00000	0.03207		31.456	1.000	0.995	
Nickel	A	38.168	37.583	37.961	38.053		LOR0	0.00000	0.02628		37.941	1.000	0.995	
Selenium	A	42.069	26.392	25.854	26.893		LOR0	0.00000	0.03720		30.302	1.000	0.995	
Silver	A	512.14	466.36	467.46	473.48		LOR0	0.00000	0.00212		479.86	1.000	0.995	
Thallium	A	15.523	15.216	14.945	14.385		LOR0	0.00000	0.06949		15.017	1.000	0.995	
Tin	A	19.719	19.837	19.553	20.800		LOR0	0.00000	0.04811		19.978	1.000	0.995	
Titanium	A	1175.4	1202.6	1190.4	1179.6		LOR0	0.00000	8.48E-4		1187.0	1.000	0.995	
Vanadium	A	109.89	104.93	104.36	106.33		LOR0	0.00000	0.00941		106.38	1.000	0.995	
Zinc	A	148.49	82.581	75.035	75.382		LOR0	0.00000	0.01327		95.372	1.000	0.995	
Aluminum	R	0.6246		0.5631	0.5295	0.5209	LOR0	0.00000	1.91951		0.5595	1.000	0.995	
Calcium	R	7.1344		5.9411	5.3426	5.3129	LOR0	0.00000	0.18821		5.9328	1.000	0.995	
Iron	R	4.3469		3.9458	3.7059	3.7542	LOR0	0.00000	0.26640		3.9382	1.000	0.995	
Magnesium	R	0.8499		0.8058	0.7494	0.7519	LOR0	0.00000	1.32996		0.7893	1.000	0.995	
Potassium	R	2.1327		2.1853	2.3611	2.8650	LOR0	0.00000	0.34966		2.3860	1.000	0.995	
Sodium	R	6.0293		5.9210	6.6949	7.5260	LOR0	0.00000	0.13302		6.5428	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-7	100.0	-2	1000	-2	10000	0		
Arsenic	A	5.000	-17	100.0	-1	1000	0	10000	0		
Barium	A	5.000	12	100.0	3	1000	2	10000	0		
Beryllium	A	2.000	3	100.0	1	1000	0				
Boron	A	100.0	-4			1000	-3	10000	0		
Cadmium	A	5.000	2	100.0	2	1000	2	10000	0		
Chromium	A	5.000	2	100.0	1	1000	0	10000	0		
Cobalt	A	5.000	-1	100.0	-1	1000	1	10000	0		
Copper	A	5.000	8	100.0	-1	1000	-2	10000	0		
Lead	A	3.000	-20	100.0	3	1000	2	10000	0		
Manganese	A	5.000	10	100.0	5	1000	3	10000	0		
Molybdenum	A	5.000	2	100.0	1	1000	0	10000	0		
Nickel	A	5.000	0	100.0	-1	1000	0	10000	0		
Selenium	A	5.000	56	100.0	-2	1000	-4	10000	0		
Silver	A	5.000	8	100.0	-1	1000	-1	2000	0		
Thallium	A	5.000	8	100.0	6	1000	4	10000	0		
Tin	A	40.00	-5	100.0	-5	1000	-6	10000	0		
Titanium	A	10.00	0	100.0	2	1000	1	10000	0		
Vanadium	A	5.000	3	100.0	-1	1000	-2	10000	0		
Zinc	A	20.00	97	100.0	10	1000	0	10000	0		
Aluminum	R	100.0	20			1000	8	10000	2	100000	0
Calcium	R	200.0	34			1000	12	10000	1	100000	0
Iron	R	100.0	16			1000	5	10000	-1	100000	0
Magnesium	R	200.0	13			1000	7	10000	0	100000	0
Potassium	R	500.0	-25			1000	-24	10000	-17	100000	0
Sodium	R	500.0	-20			1000	-21	10000	-11	100000	0

SGS

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Reprocessing Begun
Logged In Analyst: Curtis and Tompkins Technique: ICP Continuous

Results Data Set (original): 110807
Results Library (original): C:\pe\Curtis and Tompkins\Results\Results.mdb
Results Data Set (reprocessed): 110807r
Results Library (reprocessed): C:\pe\Curtis and Tompkins\Results\Results.mdb

Sequence No.: 1 Autosampler Location: 1
Sample ID: ICALBLK, Date Collected: 11/8/2007 9:06:09 AM
Analyst: Data Type: Reprocessed on 11/8/2007 9:46:41 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	148.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	561.0	228.57	40.74%	[0.00]	ug/L
Al 308.215 R	-121.9	1.90	1.56%	[0.00]	ug/L
As 188.979	-35.1	33.57	95.66%	[0.00]	ug/L
B 249.677	210.0	30.14	14.36%	[0.00]	ug/L
Ba 233.527	-90.7	5.26	5.80%	[0.00]	ug/L
Be 313.107	1185.4	102.50	8.65%	[0.00]	ug/L
Ca 315.887 R	-152.7	6.81	4.46%	[0.00]	ug/L
Cd 214.440	-23.9	6.39	26.79%	[0.00]	ug/L
Co 228.616	-422.9	3.34	0.79%	[0.00]	ug/L
Cr 267.716	-121.3	8.17	6.74%	[0.00]	ug/L
Cu 324.752	2784.9	29.83	1.07%	[0.00]	ug/L
Fe 238.204 R	68.6	1.67	2.44%	[0.00]	ug/L
K 766.490 R	919.8	121.90	13.25%	[0.00]	ug/L
Mg 279.077 R	7.6	4.36	57.73%	[0.00]	ug/L
Mn 257.610	406.4	23.50	5.78%	[0.00]	ug/L
Mo 202.031	-8.4	7.58	89.94%	[0.00]	ug/L
Na 589.592 R	2174.6	22.20	1.02%	[0.00]	ug/L
Ni 231.604	-298.6	5.56	1.86%	[0.00]	ug/L
Pb 220.353	43.8	33.09	75.54%	[0.00]	ug/L
Sb 206.836	85.0	47.11	55.44%	[0.00]	ug/L
Se 196.026	-66.7	86.08	129.11%	[0.00]	ug/L
Ti 334.940 R	113.1	26.97	23.84%	[0.00]	ug/L
Tl 190.801	-43.7	14.29	32.68%	[0.00]	ug/L
V 292.402	-206.5	18.13	8.78%	[0.00]	ug/L
Zn 206.200	41.3	0.85	2.05%	[0.00]	ug/L
Sn 189.927	-14.6	18.12	124.45%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/8/2007 9:09:57 AM
Data Type: Reprocessed on 11/8/2007 9:46:42 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	148.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2893028.6	14653.45	0.51%	100.0	%
Y	74100.9	2123.47	2.87%	100.0	%
Ag 328.068†	2560.7	478.03	18.67%	[5.0]	ug/L
Al 308.215 R†	62.5	3.68	5.89%	[100]	ug/L
As 188.979†	68.0	12.85	18.89%	[5.0]	ug/L
B 249.677†	16516.5	287.57	1.74%	[100]	ug/L
Ba 233.527†	2368.8	23.54	0.99%	[5.0]	ug/L
Be 313.107†	6321.5	70.76	1.12%	[2.0]	ug/L
Ca 315.887 R†	1426.9	42.87	3.00%	[200]	ug/L
Cd 214.440†	1034.8	6.37	0.62%	[5.0]	ug/L
Co 228.616†	571.3	7.94	1.39%	[5.0]	ug/L
Cr 267.716†	333.0	5.81	1.75%	[5.0]	ug/L
Cu 324.752†	2241.9	149.81	6.68%	[5.0]	ug/L
Fe 238.204 R†	434.7	15.36	3.53%	[100]	ug/L
K 766.490 R†	1066.3	428.00	40.14%	[500]	ug/L
Mg 279.077 R†	170.0	2.60	1.53%	[200]	ug/L
Mn 257.610†	7136.3	26.09	0.37%	[5.0]	ug/L
Mo 202.031†	158.9	6.75	4.25%	[5.0]	ug/L
Na 589.592 R†	3014.7	168.92	5.60%	[500]	ug/L
Ni 231.604†	190.8	6.84	3.59%	[5.0]	ug/L
Pb 220.353†	100.9	7.46	7.39%	[3.0]	ug/L
Sb 206.836†	124.0	47.09	37.98%	[5.0]	ug/L
Se 196.026†	210.3	61.22	29.10%	[5.0]	ug/L
Ti 334.940 R†	11753.6	212.67	1.81%	[10]	ug/L
Tl 190.801†	77.6	10.50	13.53%	[5.0]	ug/L
V 292.402†	549.5	28.82	5.25%	[5.0]	ug/L
Zn 206.200†	2969.8	32.04	1.08%	[20]	ug/L
Sn 189.927†	788.8	20.36	2.58%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 11/8/2007 9:13:51 AM
Data Type: Reprocessed on 11/8/2007 9:46:43 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	148.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2893425.7	50483.28	1.74%	100.0	%
Y	69664.7	5933.90	8.52%	94.01	%
Ag 328.068†	46636.3	792.76	1.70%	[100]	ug/L
As 188.979†	1609.1	63.07	3.92%	[100]	ug/L
Ba 233.527†	43857.7	588.81	1.34%	[100]	ug/L
Be 313.107†	309849.3	2008.02	0.65%	[100]	ug/L
Cd 214.440†	20703.0	205.15	0.99%	[100]	ug/L
Co 228.616†	11495.7	200.44	1.74%	[100]	ug/L
Cr 267.716†	6572.5	40.87	0.62%	[100]	ug/L
Cu 324.752†	40868.2	723.41	1.77%	[100]	ug/L
Mn 257.610†	136662.7	1362.69	1.00%	[100]	ug/L
Mo 202.031†	3163.5	51.41	1.63%	[100]	ug/L
Ni 231.604†	3758.3	51.95	1.38%	[100]	ug/L
Pb 220.353†	4318.5	80.38	1.86%	[100]	ug/L
Sb 206.836†	2616.9	19.13	0.73%	[100]	ug/L
Se 196.026†	2639.2	14.79	0.56%	[100]	ug/L
Ti 334.940 R†	120259.9	1271.70	1.06%	[100]	ug/L
Tl 190.801†	1521.6	37.83	2.49%	[100]	ug/L
V 292.402†	10493.4	102.71	0.98%	[100]	ug/L
Zn 206.200†	8258.1	142.96	1.73%	[100]	ug/L
Sn 189.927†	1983.7	38.37	1.93%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/8/2007 9:16:45 AM
Data Type: Reprocessed on 11/8/2007 9:46:44 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	148.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2910686.6	10399.23	0.36%	100.6	%
Y	74618.3	359.03	0.48%	100.7	%
Ag 328.068†	467455.7	3868.00	0.83%	[1000]	ug/L
Al 308.215 R†	563.1	4.88	0.87%	[1000]	ug/L
As 188.979†	16287.2	120.62	0.74%	[1000]	ug/L
B 249.677†	165771.2	1275.29	0.77%	[1000]	ug/L
Ba 233.527†	431336.4	2738.87	0.63%	[1000]	ug/L
Be 313.107†	3075970.1	5922.20	0.19%	[1000]	ug/L
Ca 315.887 R†	5941.1	18.50	0.31%	[1000]	ug/L
Cd 214.440†	207071.9	2037.62	0.98%	[1000]	ug/L
Co 228.616†	116609.1	889.70	0.76%	[1000]	ug/L
Cr 267.716†	65233.3	714.24	1.09%	[1000]	ug/L
Cu 324.752†	407728.3	3575.44	0.88%	[1000]	ug/L
Fe 238.204 R†	3945.8	12.47	0.32%	[1000]	ug/L
K 766.490 R†	2185.3	27.46	1.26%	[1000]	ug/L
Mg 279.077 R†	805.8	5.43	0.67%	[1000]	ug/L
Mn 257.610†	1333574.3	5023.86	0.38%	[1000]	ug/L
Mo 202.031†	31227.9	201.59	0.65%	[1000]	ug/L
Na 589.592 R†	5921.0	79.56	1.34%	[1000]	ug/L
Ni 231.604†	37961.4	386.68	1.02%	[1000]	ug/L
Pb 220.353†	42707.1	249.38	0.58%	[1000]	ug/L
Sb 206.836†	26180.9	169.42	0.65%	[1000]	ug/L
Se 196.026†	25854.4	120.40	0.47%	[1000]	ug/L
Ti 334.940 R†	1190357.6	4319.33	0.36%	[1000]	ug/L
Tl 190.801†	14944.6	142.82	0.96%	[1000]	ug/L
V 292.402†	104362.7	1079.09	1.03%	[1000]	ug/L
Zn 206.200†	75034.8	835.58	1.11%	[1000]	ug/L
Sn 189.927†	19553.3	119.07	0.61%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/8/2007 9:21:38 AM
Data Type: Reprocessed on 11/8/2007 9:46:45 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	150.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2780637.8	24798.36	0.89%	96.12	%
Y	75747.9	1483.26	1.96%	102.2	%
Ag 328.068†	946951.7	4924.03	0.52%	[2000]	ug/L
Al 308.215 R†	5294.9	79.13	1.49%	[10000]	ug/L
As 188.979†	163008.6	2026.66	1.24%	[10000]	ug/L
B 249.677†	1712626.7	7037.23	0.41%	[10000]	ug/L
Ba 233.527†	4242134.3	30797.92	0.73%	[10000]	ug/L
Ca 315.887 R†	53426.4	764.38	1.43%	[10000]	ug/L
Cd 214.440†	2029505.0	6741.12	0.33%	[10000]	ug/L
Co 228.616†	1157472.8	4066.23	0.35%	[10000]	ug/L
Cr 267.716†	651437.6	2584.65	0.40%	[10000]	ug/L
Cu 324.752†	4142903.6	28169.24	0.68%	[10000]	ug/L
Fe 238.204 R†	37059.4	683.16	1.84%	[10000]	ug/L
K 766.490 R†	23610.7	331.09	1.40%	[10000]	ug/L
Mg 279.077 R†	7493.9	118.48	1.58%	[10000]	ug/L
Mn 257.610†	12963956.3	94793.79	0.73%	[10000]	ug/L
Mo 202.031†	311855.4	2264.92	0.73%	[10000]	ug/L
Na 589.592 R†	66949.4	1982.47	2.96%	[10000]	ug/L
Ni 231.604†	380532.9	1669.82	0.44%	[10000]	ug/L
Pb 220.353†	418012.2	3699.34	0.88%	[10000]	ug/L
Sb 206.836†	267181.1	2667.02	1.00%	[10000]	ug/L
Se 196.026†	268934.5	2875.93	1.07%	[10000]	ug/L
Ti 334.940 R†	11796025.4	87963.67	0.75%	[10000]	ug/L
Tl 190.801†	143850.8	1056.49	0.73%	[10000]	ug/L
V 292.402†	1063266.0	4721.59	0.44%	[10000]	ug/L
Zn 206.200†	753823.1	2785.17	0.37%	[10000]	ug/L
Sn 189.927†	208001.9	1466.07	0.70%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 11/8/2007 9:25:15 AM
Data Type: Reprocessed on 11/8/2007 9:46:45 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	150.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2628579.5	16246.97	0.62%	90.86	%
Y	72162.6	499.76	0.69%	97.38	%
Al 308.215 R†	52087.6	469.40	0.90%	[100000]	ug/L
Ca 315.887 R†	531294.1	3665.13	0.69%	[100000]	ug/L
Fe 238.204 R†	375415.7	2428.71	0.65%	[100000]	ug/L
K 766.490 R†	286496.7	3097.65	1.08%	[100000]	ug/L
Mg 279.077 R†	75192.2	518.91	0.69%	[100000]	ug/L
Na 589.592 R†	752603.1	7214.82	0.96%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	472.3	0.00000	0.999987	
Al 308.215 R	4	Lin Thru 0	0.0	0.5210	0.00000	0.999998	
As 188.979	4	Lin Thru 0	0.0	16.30	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	171.2	0.00000	0.999995	
Ba 233.527	4	Lin Thru 0	0.0	424.3	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	3076	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	5.313	0.00000	0.999999	
Cd 214.440	4	Lin Thru 0	0.0	203.0	0.00000	0.999998	
Co 228.616	4	Lin Thru 0	0.0	115.8	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	65.14	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	414.2	0.00000	0.999999	
Fe 238.204 R	4	Lin Thru 0	0.0	3.754	0.00000	0.999999	
K 766.490 R	4	Lin Thru 0	0.0	2.860	0.00000	0.999844	
Mg 279.077 R	4	Lin Thru 0	0.0	0.7519	0.00000	1.000000	
Mn 257.610	4	Lin Thru 0	0.0	1297	0.00000	0.999996	
Mo 202.031	4	Lin Thru 0	0.0	31.19	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	7.518	0.00000	0.999937	
Ni 231.604	4	Lin Thru 0	0.0	38.05	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	41.81	0.00000	0.999998	
Sb 206.836	4	Lin Thru 0	0.0	26.71	0.00000	0.999998	
Se 196.026	4	Lin Thru 0	0.0	26.88	0.00000	0.999993	
Ti 334.940 R	4	Lin Thru 0	0.0	1180	0.00000	1.000000	
Tl 190.801	4	Lin Thru 0	0.0	14.39	0.00000	0.999992	
V 292.402	4	Lin Thru 0	0.0	106.3	0.00000	0.999998	
Zn 206.200	4	Lin Thru 0	0.0	75.38	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	20.79	0.00000	0.999982	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87449826007 File : 110807r Time : 08-NOV-2007 09:28
Cal : 87449826001 Caldate : 08-NOV-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	25.966	26.609	5000	4981	ug/L	0	10	
Arsenic	A	15.570	16.989	5000	5211	ug/L	4	10	
Barium	A	441.97	431.29	5000	5083	ug/L	2	10	
Beryllium	A	3111.7	3198.9	500.0	519.9	ug/L	4	10	
Boron	A	167.40	175.41	5000	5123	ug/L	2	10	
Cadmium	A	206.00	207.13	5000	5102	ug/L	2	10	
Chromium	A	65.675	64.086	5000	4919	ug/L	-2	10	
Cobalt	A	115.39	113.87	5000	4909	ug/L	-2	10	
Copper	A	419.77	403.99	5000	4876	ug/L	-2	10	
Lead	A	40.334	40.929	5000	4895	ug/L	-2	10	
Manganese	A	1356.0	1298.6	5000	5007	ug/L	0	10	
Molybdenum	A	31.456	31.335	5000	5024	ug/L	0	10	
Nickel	A	37.941	37.621	5000	4943	ug/L	-1	10	
Selenium	A	30.302	26.667	5000	4960	ug/L	-1	10	
Silver	A	479.86	455.32	1000	964.1	ug/L	-4	10	
Thallium	A	15.017	14.193	5000	4931	ug/L	-1	10	
Tin	A	19.978	20.361	5000	4897	ug/L	-2	10	
Titanium	A	1187.0	1172.2	5000	4968	ug/L	-1	10	
Vanadium	A	106.38	105.91	5000	4981	ug/L	0	10	
Zinc	A	95.372	75.188	5000	4987	ug/L	0	10	
Aluminum	R	0.5595	0.5517	20000	21180	ug/L	6	10	
Calcium	R	5.9328	5.7132	20000	21510	ug/L	8	10	
Iron	R	3.9382	4.0021	20000	21320	ug/L	7	10	
Magnesium	R	0.7893	0.8114	20000	21580	ug/L	8	10	
Potassium	R	2.3860	2.6443	20000	18490	ug/L	-8	10	
Sodium	R	6.5428	7.4457	20000	19810	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2782250	-3.83

87449826007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87449826008
Cal : 87449826001
File : 110807r
Caldate : 08-NOV-2007
IDF : 1.0
Time : 08-NOV-2007 09:34

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[15.96]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.705]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	[0.8129]	5.000	0.7500	ug/L	!ib
Thallium	A	[2.742]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	[51.58]	500.0	46.44	ug/L	!ib
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2904542	0.40

!=warning ib=instrument blank

87449826008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87449826009 File : 110807r Time : 08-NOV-2007 09:37
Cal : 87449826001 Caldate : 08-NOV-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	8.578	5.000	ug/L	
Arsenic	A	[1.040]	5.000	ug/L	
Barium	A	[0.6179]	5.000	ug/L	
Beryllium	A	[-0.9575]	2.000	ug/L	
Boron	A	[-2.288]	100.0	ug/L	
Cadmium	A	[-2.073]	5.000	ug/L	
Cobalt	A	[-1.039]	5.000	ug/L	
Lead	A	[-1.825]	3.000	ug/L	
Molybdenum	A	[0.4733]	5.000	ug/L	
Selenium	A	[-7.281]	5.000	ug/L	
Silver	A	[-0.9271]	5.000	ug/L	
Thallium	A	[-8.648]	5.000	ug/L	
Tin	A	[-8.111]	40.00	ug/L	
Zinc	A	[12.97]	20.00	ug/L	
Potassium	R	[-1.614]	500.0	ug/L	
Sodium	R	[139.2]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18860	ug/L	94
Copper	A	20000	19860	ug/L	99
Manganese	A	20000	17840	ug/L	89
Nickel	A	20000	17490	ug/L	87
Titanium	A	20000	19150	ug/L	96
Vanadium	A	20000	19680	ug/L	98
Aluminum	R	500000	528100	ug/L	106
Calcium	R	500000	507800	ug/L	102
Iron	R	200000	193700	ug/L	97
Magnesium	R	500000	502800	ug/L	101

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2444232	-15.51

87449826009

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87449826010 File : 110807r Time : 08-NOV-2007 09:48
Cal : 87449826001 Caldate : 08-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	560.9	ug/L	12	20	
Arsenic	A	500.0	546.1	ug/L	9	20	
Barium	A	500.0	506.7	ug/L	1	20	
Beryllium	A	500.0	526.3	ug/L	5	20	
Cadmium	A	1000	971.7	ug/L	-3	20	
Chromium	A	500.0	482.3	ug/L	-4	20	
Cobalt	A	500.0	443.4	ug/L	-11	20	
Copper	A	500.0	487.4	ug/L	-3	20	
Lead	A	1000	911.0	ug/L	-9	20	
Manganese	A	500.0	443.9	ug/L	-11	20	
Molybdenum	A	500.0	493.7	ug/L	-1	20	
Nickel	A	1000	902.1	ug/L	-10	20	
Selenium	A	500.0	510.0	ug/L	2	20	
Silver	A	1000	1047	ug/L	5	20	
Thallium	A	500.0	424.2	ug/L	-15	20	
Titanium	A	20000	18960	ug/L	-5		
Vanadium	A	500.0	517.5	ug/L	3	20	
Zinc	A	1000	984.7	ug/L	-2	20	
Aluminum	R	500000	496000	ug/L	-1		
Calcium	R	500000	473800	ug/L	-5		
Iron	R	200000	183100	ug/L	-8		
Magnesium	R	500000	476200	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2451467	-15.26

87449826010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87449826021
Cal : 87449826001
Standards: S7554

File : 110807r
Caldate : 08-NOV-2007

IDF : 1.0
Time : 08-NOV-2007 10:18

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	25.966	26.994	5000	5053	ug/L	1	10	
Arsenic	A	15.570	17.258	5000	5294	ug/L	6	10	
Barium	A	441.97	432.42	5000	5096	ug/L	2	10	
Beryllium	A	3111.7	3201.3	500.0	520.3	ug/L	4	10	
Boron	A	167.40	176.59	5000	5157	ug/L	3	10	
Cadmium	A	206.00	208.06	5000	5125	ug/L	2	10	
Chromium	A	65.675	64.356	5000	4939	ug/L	-1	10	
Cobalt	A	115.39	114.05	5000	4916	ug/L	-2	10	
Copper	A	419.77	405.33	5000	4893	ug/L	-2	10	
Lead	A	40.334	41.330	5000	4943	ug/L	-1	10	
Manganese	A	1356.0	1303.1	5000	5024	ug/L	0	10	
Molybdenum	A	31.456	31.756	5000	5091	ug/L	2	10	
Nickel	A	37.941	37.748	5000	4960	ug/L	-1	10	
Selenium	A	30.302	26.993	5000	5020	ug/L	0	10	
Silver	A	479.86	458.22	1000	970.3	ug/L	-3	10	
Thallium	A	15.017	14.285	5000	4963	ug/L	-1	10	
Tin	A	19.978	20.613	5000	4958	ug/L	-1	10	
Titanium	A	1187.0	1178.2	5000	4994	ug/L	0	10	
Vanadium	A	106.38	106.56	5000	5012	ug/L	0	10	
Zinc	A	95.372	75.281	5000	4993	ug/L	0	10	
Aluminum	R	0.5595	0.5643	20000	21660	ug/L	8	10	
Calcium	R	5.9328	5.8133	20000	21880	ug/L	9	10	
Iron	R	3.9382	4.0610	20000	21640	ug/L	8	10	
Magnesium	R	0.7893	0.8167	20000	21720	ug/L	9	10	
Potassium	R	2.3860	2.6556	20000	18570	ug/L	-7	10	
Sodium	R	6.5428	7.3519	20000	19560	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2795113	-3.38

87449826021

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87449826023 File : 110807r Time : 08-NOV-2007 10:25
Cal : 87449826001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[22.14]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.473]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[2.284]	5.000	1.131	ug/L	!ib
Tin	A	[2.954]	40.00	2.773	ug/L	!ib
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2947988	1.90

!=warning ib=instrument blank

87449826023

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87449826036 File : 110807r Time : 08-NOV-2007 10:58
Cal : 87449826001 Caldate : 08-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	25.966	27.344	5000	5118	ug/L	2	10	
Arsenic	A	15.570	17.749	5000	5444	ug/L	9	10	
Barium	A	441.97	434.33	5000	5118	ug/L	2	10	
Beryllium	A	3111.7	3199.1	500.0	520.0	ug/L	4	10	
Boron	A	167.40	177.09	5000	5172	ug/L	3	10	
Cadmium	A	206.00	212.25	5000	5228	ug/L	5	10	
Chromium	A	65.675	64.571	5000	4956	ug/L	-1	10	
Cobalt	A	115.39	114.99	5000	4957	ug/L	-1	10	
Copper	A	419.77	408.66	5000	4933	ug/L	-1	10	
Lead	A	40.334	41.814	5000	5000	ug/L	0	10	
Manganese	A	1356.0	1313.3	5000	5064	ug/L	1	10	
Molybdenum	A	31.456	31.848	5000	5106	ug/L	2	10	
Nickel	A	37.941	38.267	5000	5028	ug/L	1	10	
Selenium	A	30.302	27.345	5000	5086	ug/L	2	10	
Silver	A	479.86	457.96	1000	969.7	ug/L	-3	10	
Thallium	A	15.017	14.235	5000	4946	ug/L	-1	10	
Tin	A	19.978	20.808	5000	5005	ug/L	0	10	
Titanium	A	1187.0	1185.7	5000	5026	ug/L	1	10	
Vanadium	A	106.38	107.27	5000	5045	ug/L	1	10	
Zinc	A	95.372	76.190	5000	5054	ug/L	1	10	
Aluminum	R	0.5595	0.5687	20000	21830	ug/L	9	10	
Calcium	R	5.9328	5.8862	20000	22160	ug/L	**11**	10	c+ ***
Iron	R	3.9382	4.1271	20000	21990	ug/L	10	10	
Magnesium	R	0.7893	0.8308	20000	22100	ug/L	10	10	
Potassium	R	2.3860	2.6709	20000	18680	ug/L	-7	10	
Sodium	R	6.5428	7.3841	20000	19640	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2801882	-3.15

+=high bias c=CCV

87449826036

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87449826038 File : 110807r Time : 08-NOV-2007 11:05
Cal : 87449826001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[23.85]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	[3.691]	5.000	1.986	ug/L	!ib
Silver	A	[1.147]	5.000	0.7500	ug/L	!ib
Thallium	A	[1.444]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2944773	1.79

!=warning ib=instrument blank

87449826038

00200

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87449826052 File : 110807r Time : 08-NOV-2007 11:53
Cal : 87449826001 Caldate : 08-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	25.966	24.409	5000	4569	ug/L	-9	10	
Arsenic	A	15.570	14.904	5000	4572	ug/L	-9	10	
Barium	A	441.97	393.08	5000	4632	ug/L	-7	10	
Beryllium	A	3111.7	3008.5	500.0	489.0	ug/L	-2	10	
Boron	A	167.40	156.94	5000	4583	ug/L	-8	10	
Cadmium	A	206.00	177.42	5000	4370	ug/L	**-13**	10	c- ***
Chromium	A	65.675	58.236	5000	4470	ug/L	**-11**	10	c- ***
Cobalt	A	115.39	102.41	5000	4414	ug/L	**-12**	10	c- ***
Copper	A	419.77	382.86	5000	4621	ug/L	-8	10	
Lead	A	40.334	35.874	5000	4290	ug/L	**-14**	10	c- ***
Manganese	A	1356.0	1187.1	5000	4577	ug/L	-8	10	
Molybdenum	A	31.456	28.343	5000	4544	ug/L	-9	10	
Nickel	A	37.941	33.743	5000	4434	ug/L	**-11**	10	c- ***
Selenium	A	30.302	23.058	5000	4289	ug/L	**-14**	10	c- ***
Silver	A	479.86	429.47	1000	909.4	ug/L	-9	10	
Thallium	A	15.017	12.585	5000	4373	ug/L	**-13**	10	c- ***
Tin	A	19.978	17.423	5000	4191	ug/L	**-16**	10	c- ***
Titanium	A	1187.0	1126.2	5000	4773	ug/L	-5	10	
Vanadium	A	106.38	98.343	5000	4625	ug/L	-7	10	
Zinc	A	95.372	63.413	5000	4206	ug/L	**-16**	10	c- ***
Aluminum	R	0.5595	0.5127	20000	19680	ug/L	-2	10	
Calcium	R	5.9328	5.1594	20000	19420	ug/L	-3	10	
Iron	R	3.9382	3.4655	20000	18460	ug/L	-8	10	
Magnesium	R	0.7893	0.6905	20000	18370	ug/L	-8	10	
Potassium	R	2.3860	1.6752	20000	11720	ug/L	**-41**	10	c- ***
Sodium	R	6.5428	5.2783	20000	14040	ug/L	**-30**	10	c- ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	3015598	4.24

-=low bias c=CCV

87449826052

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87449826059 File : 110807r Time : 08-NOV-2007 12:20
Cal : 87449826001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.5632]	2.000	0.1170	ug/L	!ib
Boron	A	[22.20]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	3.000	0.3555	ug/L	
Chromium	A	[0.7052]	5.000	0.3298	ug/L	!ib
Cobalt	A	[0.8386]	5.000	0.3112	ug/L	!ib
Copper	A	[4.785]	5.000	1.577	ug/L	!ib
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.096]	5.000	1.384	ug/L	!ib
Nickel	A	[0.9473]	5.000	0.6463	ug/L	!ib
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	[1.867]	5.000	0.7500	ug/L	!ib
Thallium	A	[4.154]	5.000	1.131	ug/L	!ib
Tin	A	[3.533]	40.00	2.773	ug/L	!ib
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	[47.22]	100.0	24.86	ug/L	!ib
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2969193	2.63

!=warning ib=instrument blank

87449826059

00202

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87449826060 File : 110807r Time : 08-NOV-2007 12:23
Cal : 87449826001 Caldate : 08-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	511.9	ug/L	2	20	
Arsenic	A	500.0	479.9	ug/L	-4	20	
Barium	A	500.0	466.6	ug/L	-7	20	
Beryllium	A	500.0	508.6	ug/L	2	20	
Cadmium	A	1000	816.1	ug/L	-18	20	
Chromium	A	500.0	445.9	ug/L	-11	20	
Cobalt	A	500.0	391.5	ug/L	**-22**	20	ab- ***
Copper	A	500.0	488.2	ug/L	-2	20	
Lead	A	1000	788.2	ug/L	**-21**	20	ab- ***
Manganese	A	500.0	414.2	ug/L	-17	20	
Molybdenum	A	500.0	454.5	ug/L	-9	20	
Nickel	A	1000	806.2	ug/L	-19	20	
Selenium	A	500.0	436.5	ug/L	-13	20	
Silver	A	1000	1027	ug/L	3	20	
Thallium	A	500.0	376.0	ug/L	**-25**	20	ab- ***
Titanium	A	20000	19070	ug/L	-5		
Vanadium	A	500.0	496.0	ug/L	-1	20	
Zinc	A	1000	805.3	ug/L	-19	20	
Aluminum	R	500000	503700	ug/L	1		
Calcium	R	500000	463700	ug/L	-7		
Iron	R	200000	167200	ug/L	-16		
Magnesium	R	500000	445900	ug/L	-11		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2893029	2552261	-11.78

-=low bias ab=ICSAB

87449826060

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87449826 Instrument: MET08 PE ICP Begun: 08-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	110807r	ICALBLK				08-NOV-2007 09:06	1.0	1.0				
002	110807r	ICAL	CRIM08			08-NOV-2007 09:09	1.0	1.0			1	
003	110807r	ICAL	CS100			08-NOV-2007 09:13	1.0	1.0			2	
004	110807r	ICAL	CS1K			08-NOV-2007 09:16	1.0	1.0			3	
005	110807r	ICAL	CS10K			08-NOV-2007 09:21	1.0	1.0			4	
006	110807r	ICAL	CS100K			08-NOV-2007 09:25	1.0	1.0			5	
007	110807r	ICV				08-NOV-2007 09:28	1.0	1.0		5000	6	
008	110807r	ICB				08-NOV-2007 09:34	1.0	1.0		5000		
009	110807r	ICSA				08-NOV-2007 09:37	1.0	1.0		5000	7	10:AL=528059
010	110807r	ICSAB				08-NOV-2007 09:48	1.0	1.0		5000	8	5:AL=495952
011	110807r	BLANK	QC414260	131445	Soil	08-NOV-2007 09:52	1.0	50.0		5000		
012	110807r	BS	QC414261	131445	Soil	08-NOV-2007 09:56	1.0	50.0	1	5000		
013	110807r	BSD	QC414262	131445	Soil	08-NOV-2007 09:59	1.0	50.0	1	5000		
014	110807r	MSS	199042-003	131445	Soil	08-NOV-2007 10:02	1.0	49.50	3	5000		3:FE=369545
015	110807r	SER	QC414265	131445	Soil	08-NOV-2007 10:04	5.0	49.50	3	5000		
016	110807r	PDS	QC414266	131445	Soil	08-NOV-2007 10:07	1.0	49.50		5000	9 10	3:FE=398426
017	110807r	MS	QC414263	131445	Soil	08-NOV-2007 10:09	1.0	46.73	1	5000		3:FE=444309
018	110807r	MSD	QC414264	131445	Soil	08-NOV-2007 10:11	1.0	46.73	1	5000		3:FE=421397
019	110807r	X	RINSE			08-NOV-2007 10:13	1.0					
020	110807r	X				08-NOV-2007 10:17	1.0	1.0	1	5000	11	
021	110807r	CCV				08-NOV-2007 10:18	1.0	1.0		5000	11	
022	110807r	X	FLUSH			08-NOV-2007 10:21	1.0					
023	110807r	CCB				08-NOV-2007 10:25	1.0	1.0		5000		
024	110807r	SAMPLE	199042-004	131445	Soil	08-NOV-2007 10:29	1.0	46.73	2	5000		3:FE=351373
025	110807r	SAMPLE	199042-005	131445	Soil	08-NOV-2007 10:31	1.0	50.0	2	5000		4:FE=372196
026	110807r	SAMPLE	199044-017	131445	Soil	08-NOV-2007 10:33	1.0	49.50		5000		2:FE=369198
027	110807r	SAMPLE	199044-018	131445	Soil	08-NOV-2007 10:36	1.0	45.05		5000		4:FE=405990
028	110807r	MSS	199042-003	131445	Soil	08-NOV-2007 10:38	1.0	49.50	4	5000		3:FE=378133
029	110807r	SAMPLE	199044-019	131445	Soil	08-NOV-2007 10:40	1.0	49.02		5000		2:FE=365157
030	110807r	SAMPLE	199044-020	131445	Soil	08-NOV-2007 10:42	1.0	48.08		5000		5:FE=749827
031	110807r	SAMPLE	199043-001	131445	Soil	08-NOV-2007 10:44	1.0	47.17	1	5000		4:FE=2186236

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S6918 10=S6919 11=S7554

Analyst: _____ Date: 11/8/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87449826 Instrument: MET08 PE ICP Begun: 08-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	110807r	SAMPLE	199043-002	131445	Soil	08-NOV-2007 10:48	1.0	45.45			5000	2:FE=218966	
033	110807r	SAMPLE	199043-003	131445	Soil	08-NOV-2007 10:51	1.0	47.62			5000	2:FE=444385	
034	110807r	X	RINSE			08-NOV-2007 10:53	1.0						
035	110807r	X				08-NOV-2007 10:57	1.0					11	
036	110807r	CCV				08-NOV-2007 10:58	1.0	1.0	1		5000	11	
037	110807r	X	FLUSH			08-NOV-2007 11:01	1.0						
038	110807r	CCB				08-NOV-2007 11:05	1.0	1.0			5000		
039	110807r	SER	QC414265	131445	Soil	08-NOV-2007 11:09	5.0	49.50	12	5	5000		
040	110807r	SAMPLE	199043-004	131445	Soil	08-NOV-2007 11:12	1.0	49.02	1		5000	2:FE=170700	
041	110807r	SAMPLE	199043-005	131445	Soil	08-NOV-2007 11:15	1.0	48.08	1		5000	3:FE=229413	
042	110807r	SAMPLE	199043-006	131445	Soil	08-NOV-2007 11:17	1.0	46.30	1		5000	2:FE=221614	
043	110807r	SAMPLE	199043-007	131445	Soil	08-NOV-2007 11:19	1.0	47.17	1		5000	4:FE=1081986	
044	110807r	SAMPLE	199032-001	131445	Miscel	08-NOV-2007 11:21	1.0	46.30	8		5000	1:FE=147830	
045	110807r	SAMPLE	199023-001	131445	Soil	08-NOV-2007 11:24	1.0	46.30	7		5000	7:CA=2767962	
046	110807r	SAMPLE	199023-002	131445	Soil	08-NOV-2007 11:28	1.0	45.87	7		5000	7:CA=2700228	
047	110807r	SAMPLE	199023-002	131445	Soil	08-NOV-2007 11:31	1.0	45.87	7		5000	7:CA=2823477	
048	110807r	X	RINSE			08-NOV-2007 11:35	1.0						
049	110807r	X	RINSE			08-NOV-2007 11:39	1.0						
050	110807r	X	CHANGED INJE			08-NOV-2007 11:46	1.0						
051	110807r	X	199023 SAMPL			08-NOV-2007 11:50	1.0						
052	110807r	CCV				08-NOV-2007 11:53	1.0	1.0	11		5000	11	
053	110807r	X				08-NOV-2007 11:54	1.0	1.0	10		5000	11	
054	110807r	X	RINSE			08-NOV-2007 12:05	1.0						
055	110807r	X	RINSE			08-NOV-2007 12:09	1.0						
056	110807r	X				08-NOV-2007 12:13	1.0	1.0	14		5000	11	
057	110807r	X				08-NOV-2007 12:14	1.0					11	
058	110807r	X	FLUSH			08-NOV-2007 12:16	1.0						
059	110807r	CCB				08-NOV-2007 12:20	1.0	1.0			5000		
060	110807r	ICSAB				08-NOV-2007 12:23	1.0	1.0	3		5000	8	5:AL=503744

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S6918 10=S6919 11=S7554

Analyst: _____ Date: 11/8/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87450029001
Units : ug/L

Date : 08-NOV-2007 12:29
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110807ar	87450029002	CRIM08	08-NOV-2007 12:33	S7555
L2	110807ar	87450029003	CS100	08-NOV-2007 12:37	S7382
L3	110807ar	87450029004	CS1K	08-NOV-2007 12:40	S7381
L4	110807ar	87450029005	CS10K	08-NOV-2007 12:44	S7383
L5	110807ar	87450029006	CS100K	08-NOV-2007 12:48	S7175

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	20.171	26.160	26.154	25.779		LOR0	0.00000	0.03879		24.566	1.000	0.995	
Arsenic	A	17.238	17.473	17.400	16.181		LOR0	0.00000	0.06175		17.073	1.000	0.995	
Barium	A	400.83	421.52	417.02	399.34		LOR0	0.00000	0.00250		409.68	1.000	0.995	
Beryllium	A	2978.2	3127.5	3103.3			LOR0	0.00000	3.22E-4		3069.7	1.000	0.995	
Boron	A	154.47		163.69	165.33		LOR0	0.00000	0.00605		161.16	1.000	0.995	
Cadmium	A	181.44	188.86	190.88	180.69		LOR0	0.00000	0.00553		185.47	1.000	0.995	
Chromium	A	60.310	62.598	62.785	61.693		LOR0	0.00000	0.01621		61.846	1.000	0.995	
Cobalt	A	107.47	109.11	112.54	109.31		LOR0	0.00000	0.00915		109.61	1.000	0.995	
Copper	A	345.04	412.52	423.23	415.91		LOR0	0.00000	0.00240		399.18	1.000	0.995	
Lead	A	47.434	39.410	39.130	37.362		LOR0	0.00000	0.02675		40.834	1.000	0.995	
Manganese	A	1269.1	1338.6	1316.5	1237.3		LOR0	0.00000	8.08E-4		1290.4	1.000	0.995	
Molybdenum	A	28.942	30.527	30.181	29.509		LOR0	0.00000	0.03388		29.790	1.000	0.995	
Nickel	A	33.886	35.419	36.456	35.676		LOR0	0.00000	0.02802		35.359	1.000	0.995	
Selenium	A	28.773	24.372	24.469	24.555		LOR0	0.00000	0.04073		25.542	1.000	0.995	
Silver	A	516.03	475.61	475.12	475.29		LOR0	0.00000	0.00210		485.51	1.000	0.995	
Thallium	A	13.093	14.261	14.354	13.741		LOR0	0.00000	0.07274		13.862	1.000	0.995	
Tin	A	16.242	17.345	17.654	18.263		LOR0	0.00000	0.05477		17.376	1.000	0.995	
Titanium	A	1167.0	1261.9	1249.8	1191.3		LOR0	0.00000	8.39E-4		1217.5	1.000	0.995	
Vanadium	A	97.499	104.29	104.12	103.85		LOR0	0.00000	0.00963		102.44	1.000	0.995	
Zinc	A	91.496	72.129	66.604	65.133		LOR0	0.00000	0.01535		73.841	1.000	0.995	
Aluminum	R	0.5683		0.5587	0.5477	0.5054	LOR0	0.00000	1.97714		0.5450	1.000	0.995	
Calcium	R	5.4354		5.7625	5.3555	4.9598	LOR0	0.00000	0.20146		5.3783	1.000	0.995	
Iron	R	3.6032		3.6091	3.4647	3.2346	LOR0	0.00000	0.30894		3.4779	1.000	0.995	
Magnesium	R	0.7186		0.7263	0.6979	0.6544	LOR0	0.00000	1.52707		0.6993	1.000	0.995	
Potassium	R	0.9497		1.1780	1.3897	1.6595	LOR0	0.00000	0.60358		1.2942	1.000	0.995	
Sodium	R	4.0385		4.3430	4.8365	5.2042	LOR0	0.00000	0.19229		4.6056	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-22	100.0	1	1000	1	10000	0		
Arsenic	A	5.000	6	100.0	8	1000	7	10000	0		
Barium	A	5.000	0	100.0	6	1000	4	10000	0		
Beryllium	A	2.000	-4	100.0	1	1000	0				
Boron	A	100.0	-7			1000	-1	10000	0		
Cadmium	A	5.000	0	100.0	4	1000	6	10000	0		
Chromium	A	5.000	-2	100.0	1	1000	2	10000	0		
Cobalt	A	5.000	-2	100.0	0	1000	3	10000	0		
Copper	A	5.000	-17	100.0	-1	1000	2	10000	0		
Lead	A	3.000	27	100.0	5	1000	5	10000	0		
Manganese	A	5.000	3	100.0	8	1000	6	10000	0		
Molybdenum	A	5.000	-2	100.0	3	1000	2	10000	0		
Nickel	A	5.000	-5	100.0	-1	1000	2	10000	0		
Selenium	A	5.000	17	100.0	-1	1000	0	10000	0		
Silver	A	5.000	9	100.0	0	1000	0	2000	0		
Thallium	A	5.000	-5	100.0	4	1000	4	10000	0		
Tin	A	40.00	-11	100.0	-5	1000	-3	10000	0		
Titanium	A	10.00	-2	100.0	6	1000	5	10000	0		
Vanadium	A	5.000	-6	100.0	0	1000	0	10000	0		
Zinc	A	20.00	40	100.0	11	1000	2	10000	0		
Aluminum	R	100.0	12			1000	10	10000	8	100000	0
Calcium	R	200.0	10			1000	16	10000	8	100000	0
Iron	R	100.0	11			1000	11	10000	7	100000	0
Magnesium	R	200.0	10			1000	11	10000	7	100000	0
Potassium	R	500.0	-43			1000	-29	10000	-16	100000	0
Sodium	R	500.0	-22			1000	-16	10000	-7	100000	0

0502

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Reprocessing Begun
Logged In Analyst: Curtis and Tompkins Technique: ICP Continuous

Results Data Set (original): 110807a
Results Library (original): C:\pe\Curtis and Tompkins\Results\Results.mdb
Results Data Set (reprocessed): 110807ar
Results Library (reprocessed): C:\pe\Curtis and Tompkins\Results\Results.mdb

Sequence No.: 1 Autosampler Location: 1
Sample ID: ICALBLK, Date Collected: 11/8/2007 12:29:41 PM
Analyst: Data Type: Reprocessed on 11/8/2007 1:20:14 PM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1263.2	289.89	22.95%	[0.00]	ug/L
Al 308.215 R	-102.5	1.94	1.89%	[0.00]	ug/L
As 188.979	39.3	11.75	29.90%	[0.00]	ug/L
B 249.677	2011.7	30.00	1.49%	[0.00]	ug/L
Ba 233.527	-76.8	7.62	9.92%	[0.00]	ug/L
Be 313.107	3046.3	144.59	4.75%	[0.00]	ug/L
Ca 315.887 R	-162.7	6.33	3.89%	[0.00]	ug/L
Cd 214.440	-12.5	5.90	47.30%	[0.00]	ug/L
Co 228.616	-345.2	11.12	3.22%	[0.00]	ug/L
Cr 267.716	-82.3	8.34	10.13%	[0.00]	ug/L
Cu 324.752	4004.4	33.19	0.83%	[0.00]	ug/L
Fe 238.204 R	82.8	2.24	2.70%	[0.00]	ug/L
K 766.490 R	686.4	53.41	7.78%	[0.00]	ug/L
Mg 279.077 R	10.7	1.28	11.90%	[0.00]	ug/L
Mn 257.610	879.1	25.02	2.85%	[0.00]	ug/L
Mo 202.031	15.1	3.08	20.32%	[0.00]	ug/L
Na 589.592 R	1252.8	52.62	4.20%	[0.00]	ug/L
Ni 231.604	-275.7	1.36	0.49%	[0.00]	ug/L
Pb 220.353	41.7	6.39	15.30%	[0.00]	ug/L
Sb 206.836	79.7	1.85	2.32%	[0.00]	ug/L
Se 196.026	21.4	16.13	75.55%	[0.00]	ug/L
Ti 334.940 R	283.6	89.81	31.66%	[0.00]	ug/L
Tl 190.801	20.5	16.52	80.67%	[0.00]	ug/L
V 292.402	-174.9	3.75	2.14%	[0.00]	ug/L
Zn 206.200	91.4	3.59	3.93%	[0.00]	ug/L
Sn 189.927	41.7	53.05	127.14%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/8/2007 12:33:29 PM
Data Type: Reprocessed on 11/8/2007 1:20:15 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2943759.8	51509.99	1.75%	100.0	%
Y	76927.0	2636.01	3.43%	100.0	%
Ag 328.068†	2580.1	138.95	5.39%	[5.0]	ug/L
Al 308.215 R†	56.8	2.59	4.56%	[100]	ug/L
As 188.979†	86.2	18.48	21.44%	[5.0]	ug/L
B 249.677†	15446.8	115.78	0.75%	[100]	ug/L
Ba 233.527†	2004.1	44.77	2.23%	[5.0]	ug/L
Be 313.107†	5956.5	248.37	4.17%	[2.0]	ug/L
Ca 315.887 R†	1087.1	36.25	3.33%	[200]	ug/L
Cd 214.440†	907.2	20.71	2.28%	[5.0]	ug/L
Co 228.616†	537.3	5.34	0.99%	[5.0]	ug/L
Cr 267.716†	301.5	7.22	2.40%	[5.0]	ug/L
Cu 324.752†	1725.2	73.90	4.28%	[5.0]	ug/L
Fe 238.204 R†	360.3	14.05	3.90%	[100]	ug/L
K 766.490 R†	474.8	80.61	16.98%	[500]	ug/L
Mg 279.077 R†	143.7	4.96	3.45%	[200]	ug/L
Mn 257.610†	6345.5	127.41	2.01%	[5.0]	ug/L
Mo 202.031†	144.7	3.53	2.44%	[5.0]	ug/L
Na 589.592 R†	2019.3	140.56	6.96%	[500]	ug/L
Ni 231.604†	169.4	3.74	2.21%	[5.0]	ug/L
Pb 220.353†	142.3	32.32	22.71%	[3.0]	ug/L
Sb 206.836†	100.9	23.12	22.92%	[5.0]	ug/L
Se 196.026†	143.9	25.57	17.77%	[5.0]	ug/L
Ti 334.940 R†	11670.2	206.88	1.77%	[10]	ug/L
Tl 190.801†	65.5	12.21	18.65%	[5.0]	ug/L
V 292.402†	487.5	5.19	1.06%	[5.0]	ug/L
Zn 206.200†	1829.9	39.23	2.14%	[20]	ug/L
Sn 189.927†	649.7	17.91	2.76%	[40]	ug/L

Sequence No.: 3 Autosampler Location: 3
Sample ID: ICAL,CS100 Date Collected: 11/8/2007 12:37:40 PM
Analyst: Data Type: Reprocessed on 11/8/2007 1:20:16 PM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2945398.0	34279.80	1.16%	100.1	%
Y	79561.4	580.46	0.73%	103.4	%
Ag 328.068†	47560.5	1460.15	3.07%	[100]	ug/L
As 188.979†	1747.3	25.16	1.44%	[100]	ug/L
Ba 233.527†	42152.2	1529.85	3.63%	[100]	ug/L
Be 313.107†	312753.6	2889.06	0.92%	[100]	ug/L
Cd 214.440†	18886.3	794.91	4.21%	[100]	ug/L
Co 228.616†	10911.3	142.61	1.31%	[100]	ug/L
Cr 267.716†	6259.8	79.84	1.28%	[100]	ug/L
Cu 324.752†	41252.2	1517.73	3.68%	[100]	ug/L
Mn 257.610†	133856.0	5003.72	3.74%	[100]	ug/L
Mo 202.031†	3052.7	46.50	1.52%	[100]	ug/L
Ni 231.604†	3541.9	36.37	1.03%	[100]	ug/L
Pb 220.353†	3941.0	37.47	0.95%	[100]	ug/L
Sb 206.836†	2616.0	42.21	1.61%	[100]	ug/L
Se 196.026†	2437.2	31.42	1.29%	[100]	ug/L
Ti 334.940 R†	126193.7	4636.82	3.67%	[100]	ug/L
Tl 190.801†	1426.1	38.52	2.70%	[100]	ug/L
V 292.402†	10428.6	362.11	3.47%	[100]	ug/L
Zn 206.200†	7212.9	97.25	1.35%	[100]	ug/L
Sn 189.927†	1734.5	36.66	2.11%	[100]	ug/L

Sequence No.: 4 Autosampler Location: 4
Sample ID: ICAL,CS1K Date Collected: 11/8/2007 12:40:34 PM
Analyst: Data Type: Reprocessed on 11/8/2007 1:20:17 PM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2968688.3	24914.43	0.84%	100.8	%
Y	79264.5	4835.77	6.10%	103.0	%
Ag 328.068†	475121.6	5621.63	1.18%	[1000]	ug/L
Al 308.215 R†	558.7	31.33	5.61%	[1000]	ug/L
As 188.979†	17400.3	139.46	0.80%	[1000]	ug/L
B 249.677†	163691.1	2238.06	1.37%	[1000]	ug/L
Ba 233.527†	417018.4	6008.53	1.44%	[1000]	ug/L
Be 313.107†	3103337.6	7618.62	0.25%	[1000]	ug/L
Ca 315.887 R†	5762.5	352.20	6.11%	[1000]	ug/L
Cd 214.440†	190880.1	2565.76	1.34%	[1000]	ug/L
Co 228.616†	112536.0	1573.88	1.40%	[1000]	ug/L
Cr 267.716†	62784.8	724.78	1.15%	[1000]	ug/L
Cu 324.752†	423228.2	5737.43	1.36%	[1000]	ug/L
Fe 238.204 R†	3609.1	230.97	6.40%	[1000]	ug/L
K 766.490 R†	1178.0	91.20	7.74%	[1000]	ug/L
Mg 279.077 R†	726.3	48.72	6.71%	[1000]	ug/L
Mn 257.610†	1316501.3	1408.46	0.11%	[1000]	ug/L
Mo 202.031†	30180.8	208.81	0.69%	[1000]	ug/L
Na 589.592 R†	4343.0	476.72	10.98%	[1000]	ug/L
Ni 231.604†	36455.9	451.36	1.24%	[1000]	ug/L
Pb 220.353†	39130.0	235.40	0.60%	[1000]	ug/L
Sb 206.836†	26153.9	106.79	0.41%	[1000]	ug/L
Se 196.026†	24468.7	154.06	0.63%	[1000]	ug/L
Ti 334.940 R†	1249758.4	1995.01	0.16%	[1000]	ug/L
Tl 190.801†	14354.1	164.97	1.15%	[1000]	ug/L
V 292.402†	104117.4	981.08	0.94%	[1000]	ug/L
Zn 206.200†	66604.4	834.87	1.25%	[1000]	ug/L
Sn 189.927†	17654.1	131.83	0.75%	[1000]	ug/L

Sequence No.: 5 Autosampler Location: 5
Sample ID: ICAL,CS10K Date Collected: 11/8/2007 12:44:34 PM
Analyst: Data Type: Reprocessed on 11/8/2007 1:20:18 PM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	156.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2925617.6	6306.56	0.22%	99.38	%
Y	80989.4	2154.01	2.66%	105.3	%
Ag 328.068†	950583.8	4874.00	0.51%	[2000]	ug/L
Al 308.215 R†	5477.2	136.12	2.49%	[10000]	ug/L
As 188.979†	161810.7	1042.48	0.64%	[10000]	ug/L
B 249.677†	1653324.0	8856.84	0.54%	[10000]	ug/L
Ba 233.527†	3993354.4	22400.66	0.56%	[10000]	ug/L
Ca 315.887 R†	53555.2	968.63	1.81%	[10000]	ug/L
Cd 214.440†	1806906.5	7281.99	0.40%	[10000]	ug/L
Co 228.616†	1093093.1	3826.32	0.35%	[10000]	ug/L
Cr 267.716†	616929.5	1697.26	0.28%	[10000]	ug/L
Cu 324.752†	4159107.7	22610.46	0.54%	[10000]	ug/L
Fe 238.204 R†	34646.6	679.38	1.96%	[10000]	ug/L
K 766.490 R†	13897.0	379.77	2.73%	[10000]	ug/L
Mg 279.077 R†	6979.1	143.75	2.06%	[10000]	ug/L
Mn 257.610†	12373028.0	74348.50	0.60%	[10000]	ug/L
Mo 202.031†	295091.1	1899.80	0.64%	[10000]	ug/L
Na 589.592 R†	48365.2	1920.21	3.97%	[10000]	ug/L
Ni 231.604†	356756.9	1453.59	0.41%	[10000]	ug/L
Pb 220.353†	373615.2	671.50	0.18%	[10000]	ug/L
Sb 206.836†	257787.3	577.22	0.22%	[10000]	ug/L
Se 196.026†	245546.1	435.12	0.18%	[10000]	ug/L
Ti 334.940 R†	11912837.9	68593.40	0.58%	[10000]	ug/L
Tl 190.801†	137409.4	203.92	0.15%	[10000]	ug/L
V 292.402†	1038454.8	4085.46	0.39%	[10000]	ug/L
Zn 206.200†	651330.8	2546.38	0.39%	[10000]	ug/L
Sn 189.927†	182627.3	238.59	0.13%	[10000]	ug/L

Sequence No.: 6 Autosampler Location: 6
Sample ID: ICAL,CS100K Date Collected: 11/8/2007 12:48:13 PM
Analyst: Data Type: Reprocessed on 11/8/2007 1:20:18 PM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2801180.8	7772.07	0.28%	95.16	%
Y	81869.1	3753.36	4.58%	106.4	%
Al 308.215 R†	50535.5	2857.89	5.66%	[100000]	ug/L
Ca 315.887 R†	495976.6	24607.21	4.96%	[100000]	ug/L
Fe 238.204 R†	323459.8	16305.02	5.04%	[100000]	ug/L
K 766.490 R†	165950.9	8195.49	4.94%	[100000]	ug/L
Mg 279.077 R†	65440.9	3042.33	4.65%	[100000]	ug/L
Na 589.592 R†	520415.7	27737.99	5.33%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	475.3	0.00000	1.000000	
Al 308.215 R	4	Lin Thru 0	0.0	0.5058	0.00000	0.999965	
As 188.979	4	Lin Thru 0	0.0	16.19	0.00000	0.999972	
B 249.677	3	Lin Thru 0	0.0	165.3	0.00000	0.999999	
Ba 233.527	4	Lin Thru 0	0.0	399.5	0.00000	0.999990	
Be 313.107	3	Lin Thru 0	0.0	3104	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	4.964	0.00000	0.999968	
Cd 214.440	4	Lin Thru 0	0.0	180.8	0.00000	0.999984	
Co 228.616	4	Lin Thru 0	0.0	109.3	0.00000	0.999996	
Cr 267.716	4	Lin Thru 0	0.0	61.70	0.00000	0.999998	
Cu 324.752	4	Lin Thru 0	0.0	416.0	0.00000	0.999998	
Fe 238.204 R	4	Lin Thru 0	0.0	3.237	0.00000	0.999975	
K 766.490 R	4	Lin Thru 0	0.0	1.657	0.00000	0.999864	
Mg 279.077 R	4	Lin Thru 0	0.0	0.6548	0.00000	0.999978	
Mn 257.610	4	Lin Thru 0	0.0	1238	0.00000	0.999980	
Mo 202.031	4	Lin Thru 0	0.0	29.52	0.00000	0.999997	
Na 589.592 R	4	Lin Thru 0	0.0	5.200	0.00000	0.999974	
Ni 231.604	4	Lin Thru 0	0.0	35.68	0.00000	0.999998	
Pb 220.353	4	Lin Thru 0	0.0	37.38	0.00000	0.999989	
Sb 206.836	4	Lin Thru 0	0.0	25.78	0.00000	0.999999	
Se 196.026	4	Lin Thru 0	0.0	24.55	0.00000	1.000000	
Ti 334.940 R	4	Lin Thru 0	0.0	1192	0.00000	0.999988	
Tl 190.801	4	Lin Thru 0	0.0	13.75	0.00000	0.999990	
V 292.402	4	Lin Thru 0	0.0	103.8	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	65.15	0.00000	0.999997	
Sn 189.927	4	Lin Thru 0	0.0	18.26	0.00000	0.999994	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029007 File : 110807ar Time : 08-NOV-2007 12:57
Cal : 87450029001 Caldate : 08-NOV-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	24.566	25.337	5000	4914	ug/L	-2	10	
Arsenic	A	17.073	17.157	5000	5298	ug/L	6	10	
Barium	A	409.68	398.22	5000	4984	ug/L	0	10	
Beryllium	A	3069.7	3066.8	500.0	494.1	ug/L	-1	10	
Boron	A	161.16	164.38	5000	4972	ug/L	-1	10	
Cadmium	A	185.47	178.63	5000	4940	ug/L	-1	10	
Chromium	A	61.846	58.741	5000	4760	ug/L	-5	10	
Cobalt	A	109.61	103.83	5000	4738	ug/L	-5	10	
Copper	A	399.18	401.21	5000	4822	ug/L	-4	10	
Lead	A	40.834	36.172	5000	4839	ug/L	-3	10	
Manganese	A	1290.4	1217.1	5000	4915	ug/L	-2	10	
Molybdenum	A	29.790	28.623	5000	4849	ug/L	-3	10	
Nickel	A	35.359	34.207	5000	4793	ug/L	-4	10	
Selenium	A	25.542	24.114	5000	4910	ug/L	-2	10	
Silver	A	485.51	443.34	1000	932.8	ug/L	-7	10	
Thallium	A	13.862	13.288	5000	4833	ug/L	-3	10	
Tin	A	17.376	17.443	5000	4777	ug/L	-4	10	
Titanium	A	1217.5	1164.6	5000	4885	ug/L	-2	10	
Vanadium	A	102.44	100.33	5000	4831	ug/L	-3	10	
Zinc	A	73.841	62.817	5000	4821	ug/L	-4	10	
Aluminum	R	0.5450	0.5192	20000	20530	ug/L	3	10	
Calcium	R	5.3783	5.2461	20000	21140	ug/L	6	10	
Iron	R	3.4779	3.4489	20000	21310	ug/L	7	10	
Magnesium	R	0.6993	0.7004	20000	21390	ug/L	7	10	
Potassium	R	1.2942	1.5014	20000	18120	ug/L	-9	10	
Sodium	R	4.6056	5.0666	20000	19490	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2925455	-0.62

87450029007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029008 File : 110807ar Time : 08-NOV-2007 13:00
Cal : 87450029001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[2.484]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[38.71]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	[4.914]	5.000	1.577	ug/L	!ib
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	[0.9177]	5.000	0.5779	ug/L	!ib
Molybdenum	A	[3.269]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[2.145]	5.000	1.131	ug/L	!ib
Tin	A	[5.886]	40.00	2.773	ug/L	!ib
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2926722	-0.58

!=warning ib=instrument blank

87450029008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029009 File : 110807ar Time : 08-NOV-2007 13:04
Cal : 87450029001 Caldate : 08-NOV-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[-3.585]	5.000	ug/L	
Arsenic	A	[2.681]	5.000	ug/L	
Barium	A	[0.6999]	5.000	ug/L	
Beryllium	A	[-0.8516]	2.000	ug/L	
Boron	A	[21.72]	100.0	ug/L	
Cadmium	A	[-3.220]	5.000	ug/L	
Cobalt	A	[-2.133]	5.000	ug/L	
Lead	A	[-1.565]	3.000	ug/L	
Molybdenum	A	[-0.2978]	5.000	ug/L	
Selenium	A	[-5.213]	5.000	ug/L	
Silver	A	[-1.210]	5.000	ug/L	
Thallium	A	[1.476]	5.000	ug/L	
Tin	A	[-7.630]	40.00	ug/L	
Zinc	A	[5.639]	20.00	ug/L	
Potassium	R	[-61.48]	500.0	ug/L	
Sodium	R	[232.3]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18720	ug/L	94
Copper	A	20000	20010	ug/L	100
Manganese	A	20000	17830	ug/L	89
Nickel	A	20000	16930	ug/L	85
Titanium	A	20000	19310	ug/L	97
Vanadium	A	20000	19600	ug/L	98
Aluminum	R	500000	527600	ug/L	106
Calcium	R	500000	504300	ug/L	101
Iron	R	200000	196100	ug/L	98
Magnesium	R	500000	517200	ug/L	103

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2528498	-14.11

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029010 File : 110807ar Time : 08-NOV-2007 13:22
Cal : 87450029001 Caldate : 08-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	533.7	ug/L	7	20	
Arsenic	A	500.0	555.8	ug/L	11	20	
Barium	A	500.0	507.6	ug/L	2	20	
Beryllium	A	500.0	513.3	ug/L	3	20	
Cadmium	A	1000	931.2	ug/L	-7	20	
Chromium	A	500.0	484.0	ug/L	-3	20	
Cobalt	A	500.0	426.1	ug/L	-15	20	
Copper	A	500.0	504.1	ug/L	1	20	
Lead	A	1000	906.8	ug/L	-9	20	
Manganese	A	500.0	445.6	ug/L	-11	20	
Molybdenum	A	500.0	489.8	ug/L	-2	20	
Nickel	A	1000	876.3	ug/L	-12	20	
Selenium	A	500.0	520.6	ug/L	4	20	
Silver	A	1000	1043	ug/L	4	20	
Thallium	A	500.0	435.6	ug/L	-13	20	
Titanium	A	20000	19390	ug/L	-3		
Vanadium	A	500.0	521.8	ug/L	4	20	
Zinc	A	1000	946.6	ug/L	-5	20	
Aluminum	R	500000	531000	ug/L	6		
Calcium	R	500000	505500	ug/L	1		
Iron	R	200000	196400	ug/L	-2		
Magnesium	R	500000	520300	ug/L	4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2480568	-15.73

87450029010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029020 File : 110807ar Time : 08-NOV-2007 13:50
Cal : 87450029001 Caldate : 08-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	24.566	24.888	5000	4827	ug/L	-3	10	
Arsenic	A	17.073	17.022	5000	5256	ug/L	5	10	
Barium	A	409.68	395.73	5000	4953	ug/L	-1	10	
Beryllium	A	3069.7	3037.7	500.0	489.4	ug/L	-2	10	
Boron	A	161.16	160.23	5000	4846	ug/L	-3	10	
Cadmium	A	185.47	175.26	5000	4847	ug/L	-3	10	
Chromium	A	61.846	58.500	5000	4740	ug/L	-5	10	
Cobalt	A	109.61	102.94	5000	4698	ug/L	-6	10	
Copper	A	399.18	398.02	5000	4784	ug/L	-4	10	
Lead	A	40.834	35.915	5000	4804	ug/L	-4	10	
Manganese	A	1290.4	1207.2	5000	4875	ug/L	-2	10	
Molybdenum	A	29.790	28.323	5000	4798	ug/L	-4	10	
Nickel	A	35.359	33.999	5000	4764	ug/L	-5	10	
Selenium	A	25.542	23.784	5000	4843	ug/L	-3	10	
Silver	A	485.51	442.31	1000	930.7	ug/L	-7	10	
Thallium	A	13.862	13.382	5000	4867	ug/L	-3	10	
Tin	A	17.376	17.218	5000	4716	ug/L	-6	10	
Titanium	A	1217.5	1156.9	5000	4853	ug/L	-3	10	
Vanadium	A	102.44	99.917	5000	4811	ug/L	-4	10	
Zinc	A	73.841	61.768	5000	4741	ug/L	-5	10	
Aluminum	R	0.5450	0.4680	20000	18510	ug/L	-7	10	
Calcium	R	5.3783	4.7199	20000	19020	ug/L	-5	10	
Iron	R	3.4779	3.1054	20000	19190	ug/L	-4	10	
Magnesium	R	0.6993	0.6315	20000	19290	ug/L	-4	10	
Potassium	R	1.2942	1.3075	20000	15780	ug/L	**-21**	10	c- ***
Sodium	R	4.6056	4.4839	20000	17240	ug/L	**-14**	10	c- ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2908166	-1.21

-=low bias c=CCV

87450029020

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029022 File : 110807ar Time : 08-NOV-2007 13:55
Cal : 87450029001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	[3.186]	5.000	1.577	ug/L	!ib
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	[0.8249]	5.000	0.5779	ug/L	!ib
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2961391	0.60

!=warning ib=instrument blank

87450029022

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029033 File : 110807ar Time : 08-NOV-2007 14:22
Cal : 87450029001 Caldate : 08-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	533.2	ug/L	7	20	
Arsenic	A	500.0	543.6	ug/L	9	20	
Barium	A	500.0	504.8	ug/L	1	20	
Beryllium	A	500.0	518.3	ug/L	4	20	
Cadmium	A	1000	925.8	ug/L	-7	20	
Chromium	A	500.0	473.0	ug/L	-5	20	
Cobalt	A	500.0	419.6	ug/L	-16	20	
Copper	A	500.0	487.3	ug/L	-3	20	
Lead	A	1000	885.4	ug/L	-11	20	
Manganese	A	500.0	444.4	ug/L	-11	20	
Molybdenum	A	500.0	479.4	ug/L	-4	20	
Nickel	A	1000	857.2	ug/L	-14	20	
Selenium	A	500.0	506.7	ug/L	1	20	
Silver	A	1000	1037	ug/L	4	20	
Thallium	A	500.0	433.0	ug/L	-13	20	
Titanium	A	20000	19210	ug/L	-4		
Vanadium	A	500.0	518.0	ug/L	4	20	
Zinc	A	1000	932.9	ug/L	-7	20	
Aluminum	R	500000	545800	ug/L	9		
Calcium	R	500000	530700	ug/L	6		
Iron	R	200000	208200	ug/L	4		
Magnesium	R	500000	548000	ug/L	10		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2565086	-12.86

87450029033

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029036 File : 110807ar Time : 08-NOV-2007 14:30
Cal : 87450029001 Caldate : 08-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	24.566	25.106	5000	4869	ug/L	-3	10	
Arsenic	A	17.073	17.213	5000	5315	ug/L	6	10	
Barium	A	409.68	401.40	5000	5024	ug/L	0	10	
Beryllium	A	3069.7	3101.1	500.0	499.6	ug/L	0	10	
Boron	A	161.16	165.99	5000	5020	ug/L	0	10	
Cadmium	A	185.47	178.12	5000	4926	ug/L	-1	10	
Chromium	A	61.846	59.544	5000	4825	ug/L	-3	10	
Cobalt	A	109.61	104.73	5000	4779	ug/L	-4	10	
Copper	A	399.18	403.99	5000	4856	ug/L	-3	10	
Lead	A	40.834	35.990	5000	4814	ug/L	-4	10	
Manganese	A	1290.4	1226.8	5000	4955	ug/L	-1	10	
Molybdenum	A	29.790	29.046	5000	4920	ug/L	-2	10	
Nickel	A	35.359	34.529	5000	4838	ug/L	-3	10	
Selenium	A	25.542	24.100	5000	4908	ug/L	-2	10	
Silver	A	485.51	449.06	1000	944.9	ug/L	-6	10	
Thallium	A	13.862	13.389	5000	4870	ug/L	-3	10	
Tin	A	17.376	17.313	5000	4742	ug/L	-5	10	
Titanium	A	1217.5	1174.2	5000	4926	ug/L	-1	10	
Vanadium	A	102.44	101.33	5000	4879	ug/L	-2	10	
Zinc	A	73.841	63.195	5000	4850	ug/L	-3	10	
Aluminum	R	0.5450	0.5502	20000	21760	ug/L	9	10	
Calcium	R	5.3783	5.5592	20000	22400	ug/L	**12**	10	c+ ***
Iron	R	3.4779	3.6948	20000	22830	ug/L	**14**	10	c+ ***
Magnesium	R	0.6993	0.7467	20000	22810	ug/L	**14**	10	c+ ***
Potassium	R	1.2942	1.6153	20000	19500	ug/L	-3	10	
Sodium	R	4.6056	5.4010	20000	20770	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2913961	-1.01

+=high bias c=CCV

87450029036

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029038 File : 110807ar Time : 08-NOV-2007 14:37
Cal : 87450029001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	[1.942]	5.000	1.577	ug/L	!ib
Lead	A	[1.626]	3.000	1.150	ug/L	!ib
Manganese	A	[0.8221]	5.000	0.5779	ug/L	!ib
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	[2.200]	5.000	1.986	ug/L	!ib
Silver	A	[0.9282]	5.000	0.7500	ug/L	!ib
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[11.71]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2915649	-0.95

!=warning ib=instrument blank

87450029038

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029047 File : 110807ar Time : 08-NOV-2007 15:07
Cal : 87450029001 Caldate : 08-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	553.2	ug/L	11	20	
Arsenic	A	500.0	569.1	ug/L	14	20	
Barium	A	500.0	506.8	ug/L	1	20	
Beryllium	A	500.0	519.8	ug/L	4	20	
Cadmium	A	1000	919.2	ug/L	-8	20	
Chromium	A	500.0	487.3	ug/L	-3	20	
Cobalt	A	500.0	429.0	ug/L	-14	20	
Copper	A	500.0	496.6	ug/L	-1	20	
Lead	A	1000	910.6	ug/L	-9	20	
Manganese	A	500.0	443.6	ug/L	-11	20	
Molybdenum	A	500.0	489.4	ug/L	-2	20	
Nickel	A	1000	878.7	ug/L	-12	20	
Selenium	A	500.0	518.7	ug/L	4	20	
Silver	A	1000	1051	ug/L	5	20	
Thallium	A	500.0	452.7	ug/L	-9	20	
Titanium	A	20000	19440	ug/L	-3		
Vanadium	A	500.0	519.4	ug/L	4	20	
Zinc	A	1000	951.3	ug/L	-5	20	
Aluminum	R	500000	512900	ug/L	3		
Calcium	R	500000	501000	ug/L	0		
Iron	R	200000	196900	ug/L	-2		
Magnesium	R	500000	521700	ug/L	4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2509175	-14.76

87450029047

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029049 File : 110807ar Time : 08-NOV-2007 15:14
Cal : 87450029001 Caldate : 08-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	24.566	25.254	5000	4897	ug/L	-2	10	
Arsenic	A	17.073	17.564	5000	5423	ug/L	8	10	
Barium	A	409.68	402.74	5000	5040	ug/L	1	10	
Beryllium	A	3069.7	3143.9	500.0	506.5	ug/L	1	10	
Boron	A	161.16	163.35	5000	4941	ug/L	-1	10	
Cadmium	A	185.47	175.79	5000	4862	ug/L	-3	10	
Chromium	A	61.846	59.712	5000	4839	ug/L	-3	10	
Cobalt	A	109.61	104.98	5000	4791	ug/L	-4	10	
Copper	A	399.18	404.27	5000	4859	ug/L	-3	10	
Lead	A	40.834	36.487	5000	4881	ug/L	-2	10	
Manganese	A	1290.4	1229.5	5000	4965	ug/L	-1	10	
Molybdenum	A	29.790	28.730	5000	4867	ug/L	-3	10	
Nickel	A	35.359	34.252	5000	4799	ug/L	-4	10	
Selenium	A	25.542	24.322	5000	4953	ug/L	-1	10	
Silver	A	485.51	451.74	1000	950.5	ug/L	-5	10	
Thallium	A	13.862	13.704	5000	4984	ug/L	0	10	
Tin	A	17.376	17.492	5000	4791	ug/L	-4	10	
Titanium	A	1217.5	1175.2	5000	4930	ug/L	-1	10	
Vanadium	A	102.44	100.98	5000	4862	ug/L	-3	10	
Zinc	A	73.841	62.832	5000	4822	ug/L	-4	10	
Aluminum	R	0.5450	0.5102	20000	20170	ug/L	1	10	
Calcium	R	5.3783	5.2559	20000	21180	ug/L	6	10	
Iron	R	3.4779	3.4802	20000	21500	ug/L	8	10	
Magnesium	R	0.6993	0.7102	20000	21690	ug/L	8	10	
Potassium	R	1.2942	1.5024	20000	18140	ug/L	-9	10	
Sodium	R	4.6056	5.0802	20000	19540	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2899760	-1.49

87450029049

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87450029051 File : 110807ar Time : 08-NOV-2007 15:21
Cal : 87450029001 Caldate : 08-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	[2.312]	5.000	1.577	ug/L	!ib
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	[1.184]	5.000	0.5779	ug/L	!ib
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	[11.14]	100.0	8.057	ug/L	!ib
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2943760	2961792	0.61

!=warning ib=instrument blank

87450029051

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87450029 Instrument: MET08 PE ICP Begun: 08-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	110807ar	ICALBLK				08-NOV-2007 12:29	1.0	1.0					
002	110807ar	ICAL	CRIM08			08-NOV-2007 12:33	1.0	1.0				1	
003	110807ar	ICAL	CS100			08-NOV-2007 12:37	1.0	1.0				2	
004	110807ar	ICAL	CS1K			08-NOV-2007 12:40	1.0	1.0				3	
005	110807ar	ICAL	CS10K			08-NOV-2007 12:44	1.0	1.0				4	
006	110807ar	ICAL	CS100K			08-NOV-2007 12:48	1.0	1.0				5	
007	110807ar	ICV				08-NOV-2007 12:57	1.0	1.0			5000	6	
008	110807ar	ICB				08-NOV-2007 13:00	1.0	1.0			5000		
009	110807ar	ICSA				08-NOV-2007 13:04	1.0	1.0			5000	7	10:AL=527590
010	110807ar	ICSAB				08-NOV-2007 13:22	1.0	1.0			5000	8	5:AL=531029
011	110807ar	BLANK	QC414260	131445	Soil	08-NOV-2007 13:25	1.0	50.0	2		5000		
012	110807ar	BS	QC414261	131445	Soil	08-NOV-2007 13:29	1.0	50.0	2	1	5000		
013	110807ar	BSD	QC414262	131445	Soil	08-NOV-2007 13:32	1.0	50.0	2		5000		
014	110807ar	MSS	199042-003	131445	Soil	08-NOV-2007 13:35	1.0	49.50	7		5000		3:FE=385901
015	110807ar	SER	QC414265	131445	Soil	08-NOV-2007 13:37	5.0	49.50	2	3	5000		
016	110807ar	PDS	QC414266	131445	Soil	08-NOV-2007 13:40	1.0	49.50	2		5000	9 10	3:FE=390081
017	110807ar	MS	QC414263	131445	Soil	08-NOV-2007 13:42	1.0	46.73	2	2	5000		3:FE=452074
018	110807ar	MSD	QC414264	131445	Soil	08-NOV-2007 13:44	1.0	46.73	2	1	5000		3:FE=400829
019	110807ar	X	RINSE			08-NOV-2007 13:46	1.0						
020	110807ar	CCV				08-NOV-2007 13:50	1.0	1.0	2		5000	11	
021	110807ar	X	FLUSH			08-NOV-2007 13:52	1.0						
022	110807ar	CCB				08-NOV-2007 13:55	1.0	1.0			5000		
023	110807ar	MSS	199042-003	131445	Soil	08-NOV-2007 13:59	1.0	49.50	8		5000		3:FE=376757
024	110807ar	SAMPLE	199042-004	131445	Soil	08-NOV-2007 14:02	1.0	46.73			5000		3:FE=367192
025	110807ar	SAMPLE	199042-005	131445	Soil	08-NOV-2007 14:04	1.0	50.0			5000		4:FE=386315
026	110807ar	SAMPLE	199044-017	131445	Soil	08-NOV-2007 14:06	1.0	49.50			5000		2:FE=380675
027	110807ar	SAMPLE	199044-018	131445	Soil	08-NOV-2007 14:08	1.0	45.05			5000		4:FE=400321
028	110807ar	SAMPLE	199044-019	131445	Soil	08-NOV-2007 14:10	1.0	49.02			5000		2:FE=381579
029	110807ar	SAMPLE	199044-020	131445	Soil	08-NOV-2007 14:12	1.0	48.08			5000		5:FE=704038
030	110807ar	SAMPLE	199043-001	131445	Soil	08-NOV-2007 14:14	10.0	47.17			5000		1:FE=356873
031	110807ar	SAMPLE	199043-002	131445	Soil	08-NOV-2007 14:17	1.0	45.45			5000		2:FE=228474

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S6918 10=S6919 11=S7554

Analyst: _____ Date: 11/8/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87450029 Instrument: MET08 PE ICP Begun: 08-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	110807ar	SAMPLE	199043-003	131445	Soil	08-NOV-2007 14:20	1.0	47.62		5000		2:FE=471265
033	110807ar	ICSAB				08-NOV-2007 14:22	1.0	1.0		5000	8	5:MG=548018
034	110807ar	X	RINSE			08-NOV-2007 14:25	1.0					
035	110807ar	X				08-NOV-2007 14:29	1.0	1.0	3	5000	11	
036	110807ar	CCV				08-NOV-2007 14:30	1.0	1.0	3	5000	11	
037	110807ar	X	FLUSH			08-NOV-2007 14:33	1.0					
038	110807ar	CCB				08-NOV-2007 14:37	1.0	1.0		5000		
039	110807ar	SAMPLE	199043-004	131445	Soil	08-NOV-2007 14:41	1.0	49.02		5000		2:FE=174504
040	110807ar	SAMPLE	199043-005	131445	Soil	08-NOV-2007 14:44	1.0	48.08		5000		3:FE=249834
041	110807ar	SAMPLE	199043-006	131445	Soil	08-NOV-2007 14:47	1.0	46.30		5000		2:FE=227183
042	110807ar	SAMPLE	199043-007	131445	Soil	08-NOV-2007 14:50	1.0	47.17		5000		4:FE=1090984
043	110807ar	SAMPLE	199032-001	131445	Miscel	08-NOV-2007 14:52	1.0	46.30		5000		1:FE=150908
044	110807ar	SAMPLE	199023-001	131445	Soil	08-NOV-2007 14:55	100.0	46.30	3	5000		
045	110807ar	SAMPLE	199023-002	131445	Soil	08-NOV-2007 14:59	100.0	45.87	3	5000		
046	110807ar	SAMPLE	199023-003	131445	Soil	08-NOV-2007 15:03	100.0	46.30	3	5000		
047	110807ar	ICSAB				08-NOV-2007 15:07	1.0	1.0		5000	8	5:MG=521662
048	110807ar	X	RINSE			08-NOV-2007 15:10	1.0					
049	110807ar	CCV				08-NOV-2007 15:14	1.0	1.0		5000	11	
050	110807ar	X	FLUSH			08-NOV-2007 15:17	1.0					
051	110807ar	CCB				08-NOV-2007 15:21	1.0	1.0		5000		
052	110807ar	BLANK	QC414407	131478	Filtra	08-NOV-2007 15:26	1.0					

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7175 6=S7553 7=S7557 8=S7324 9=S6918 10=S6919 11=S7554

Analyst: _____ Date: 11/8/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 199042 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
199042-003	MET08	11/08/07 10:02	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
199042-003	MET08	11/08/07 10:38	1.0																	
199042-003	MET08	11/08/07 13:35	1.0																	
199042-003	MET08	11/08/07 13:59	1.0																	
199042-003	MET08	11/08/07 17:50	10.0																	
199042-003	MET14	11/09/07 12:30	1.0										+							
199042-004	MET08	11/08/07 10:29	1.0	+		+	+	+	+		+			+	+	+	+		+	+
199042-004	MET08	11/08/07 14:02	1.0		+					+		+						+		
199042-004	MET14	11/09/07 13:01	1.0										+							
199042-005	MET08	11/08/07 10:31	1.0	+		+	+	+	+		+			+	+		+		+	+
199042-005	MET08	11/08/07 14:04	1.0		+					+		+				+		+		
199042-005	MET14	11/09/07 13:03	1.0																	
199042-005	MET14	11/09/07 14:02	5.0										+							
QC414260	MET08	11/08/07 09:52	1.0	+	+	+	+	+	+		+			+	+	+	+		+	+
QC414260	MET08	11/08/07 13:25	1.0							+		+						+		
QC414261	MET08	11/08/07 09:56	1.0	+	+	+	+	+	+		+			+	+	+	+		+	+
QC414261	MET08	11/08/07 13:29	1.0							+		+						+		
QC414262	MET08	11/08/07 09:59	1.0	+	+	+	+	+	+		+			+	+	+	+		+	+
QC414262	MET08	11/08/07 13:32	1.0							+		+						+		
QC414263	MET08	11/08/07 10:09	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414263	MET08	11/08/07 13:42	1.0																	
QC414264	MET08	11/08/07 10:11	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414264	MET08	11/08/07 13:44	1.0																	
QC414265	MET08	11/08/07 10:04	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414265	MET08	11/08/07 11:09	5.0	+																
QC414265	MET08	11/08/07 13:37	5.0																	
QC414266	MET08	11/08/07 10:07	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC414266	MET08	11/08/07 13:40	1.0																	
QC414594	MET14	11/09/07 12:22	1.0										+							
QC414595	MET14	11/09/07 12:24	1.0										+							
QC414596	MET14	11/09/07 12:27	1.0										+							
QC414597	MET14	11/09/07 12:32	5.0										+							
QC414598	MET14	11/09/07 13:47	1.0										+							

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 199042 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN	
QC414599	MET14	11/09/07 12:36	1.0										+								
QC414600	MET14	11/09/07 12:41	5.0										+								
QC414601	MET14	11/09/07 12:44	1.0										+								
QC414602	MET14	11/09/07 12:52	1.0										+								

Curtis & Tompkins Laboratories Sample Preparation Summary 07-NOV-2007 22:21

Batch Number : 131445
Date Extracted: 07-NOV-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
199023-001		AIC Labs	Soil	1.08	g	50	46.296296	1					AG, AS, CA, (more)		
199023-002		AIC Labs	Soil	1.09	g	50	45.871560	1					AG, AS, CA, (more)		
199023-003		AIC Labs	Soil	1.08	g	50	46.296296	1					AG, AS, CA, (more)		
199032-001		ConocoPhillips Company	Miscell.	1.08	g	50	46.296296	1					T26/ICP		
199042-003		Mactec, Inc.	Soil	1.01	g	50	49.504950	1					T26/ICP		
199042-004		Mactec, Inc.	Soil	1.07	g	50	46.728972	1					T26/ICP		
199042-005		Mactec, Inc.	Soil	1	g	50	50.000000	1					T26/ICP		
199043-001		Northgate Environmental Manage	Soil	1.06	g	50	47.169811	1					PB		
199043-002		Northgate Environmental Manage	Soil	1.1	g	50	45.454545	1					PB		
199043-003		Northgate Environmental Manage	Soil	1.05	g	50	47.619048	1					PB		
199043-004		Northgate Environmental Manage	Soil	1.02	g	50	49.019608	1					PB		
199043-005		Northgate Environmental Manage	Soil	1.04	g	50	48.076923	1					PB		
199043-006		Northgate Environmental Manage	Soil	1.08	g	50	46.296296	1					PB		
199043-007		Northgate Environmental Manage	Soil	1.06	g	50	47.169811	1					PB		
199044-017		Treadwell & Rollo	Soil	1.01	g	50	49.504950	1					AS, PB, V		
199044-018		Treadwell & Rollo	Soil	1.11	g	50	45.045045	1					AS, PB, V		
199044-019		Treadwell & Rollo	Soil	1.02	g	50	49.019608	1					AS, PB, V		
199044-020		Treadwell & Rollo	Soil	1.04	g	50	48.076923	1					AS, PB, V		
QC414260	BLANK		Soil	1	g	50	50.000000	1					ICAP		
QC414261	BS		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC414262	BSD		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC414263	MS of 199042-003		Soil	1.07	g	50	46.728972	1		.5	.5		ICAP		
QC414264	MSD of 199042-003		Soil	1.07	g	50	46.728972	1		.5	.5		ICAP		
QC414265	SER of 199042-003		Soil	1.01	g	50	49.504950	1					ICAP		
QC414266	PDS of 199042-003		Soil	1.01	g	50	49.504950	1					ICAP		

Prep Chemist: MCO III 11/7/07 Reviewed By: [signature] Date: 11/8/07

Relinquished By: MCO III 11/7/07 Received By: [signature] Date: 11/8/07

SE2295

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

7:30PM

LIMS Batch #: 131445
Date Digested: 11/7/07
Digested by: MCB III

Digestion Method
☒ EPA 3050b
☐ _____

BK 2606
Page 37

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	0	50	Y	
BS	↓	↓	↓	
BSD	↓	↓	↓	
MS-042-003 A	1.07	↓	↓	
MSD-042-003	1.07	↓	↓	
199042-003	1.01	↓	↓	
-004	1.07	↓	↓	
-005	1.00	↓	↓	
199044 -017	1.01	↓	↓	199044-017 IS A COMPOSITE 001-004 SEQ.
-018	1.11	↓	↓	-018 005-008
-019	1.02	↓	↓	-019 009-012
-020	1.04	↓	↓	-020 013-016
199043-001	1.06	↓	↓	
-002	1.10	↓	↓	
-003	1.05	↓	↓	
-004	1.02	↓	↓	
-005	1.04	↓	↓	
-006	1.08	↓	↓	
-007	1.06	↓	↓	
199032-001	1.08	↓	↓	
199023-001	1.08	↓	↓	
-002	1.09	↓	↓	
-003	1.08	↓	↓	
		11/7/07	11/7/07	

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	MCB III 11/7/07
.5 mL of spike solution was added to all spikes	S6918	↓
	S6919	↓
1:1 HNO3	E09043 J.T.BAKER	↓
concentrated HNO3	E26035	↓
3mL 30% hydrogen peroxide	E26A05	↓
concentrated HCl	E21053	↓
☒ filtered thru' Whatman # 541	H11206689	↓
Relinquished to ICP group		

Continued from page _____
Continued on page 1

Michael C Brock III 11/7/07
Extraction Chemist / Date

11/8/07
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET14
alnum : 847451438001
nits : ug/L

Date : 09-NOV-2007 11:58
X Axis : R

Reviewer : ---
Type : SOIL

evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	131526	847451438002	STD02REP1	09-NOV-2007 12:01	S7665 (500X)
L2	131526	847451438003	STD03REP1	09-NOV-2007 12:03	S7665 (200X)
L3	131526	847451438004	STD04REP1	09-NOV-2007 12:05	S7665 (50X)
L4	131526	847451438005	STD05REP1	09-NOV-2007 12:08	S7665 (20X)
L5	131526	847451438006	STD06REP1	09-NOV-2007 12:10	S7665 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ercury	4475.0	2770.0	2725.5	2627.2	2571.2	LINR	-0.1201	3.93E-4		3033.8	1.000	.99	

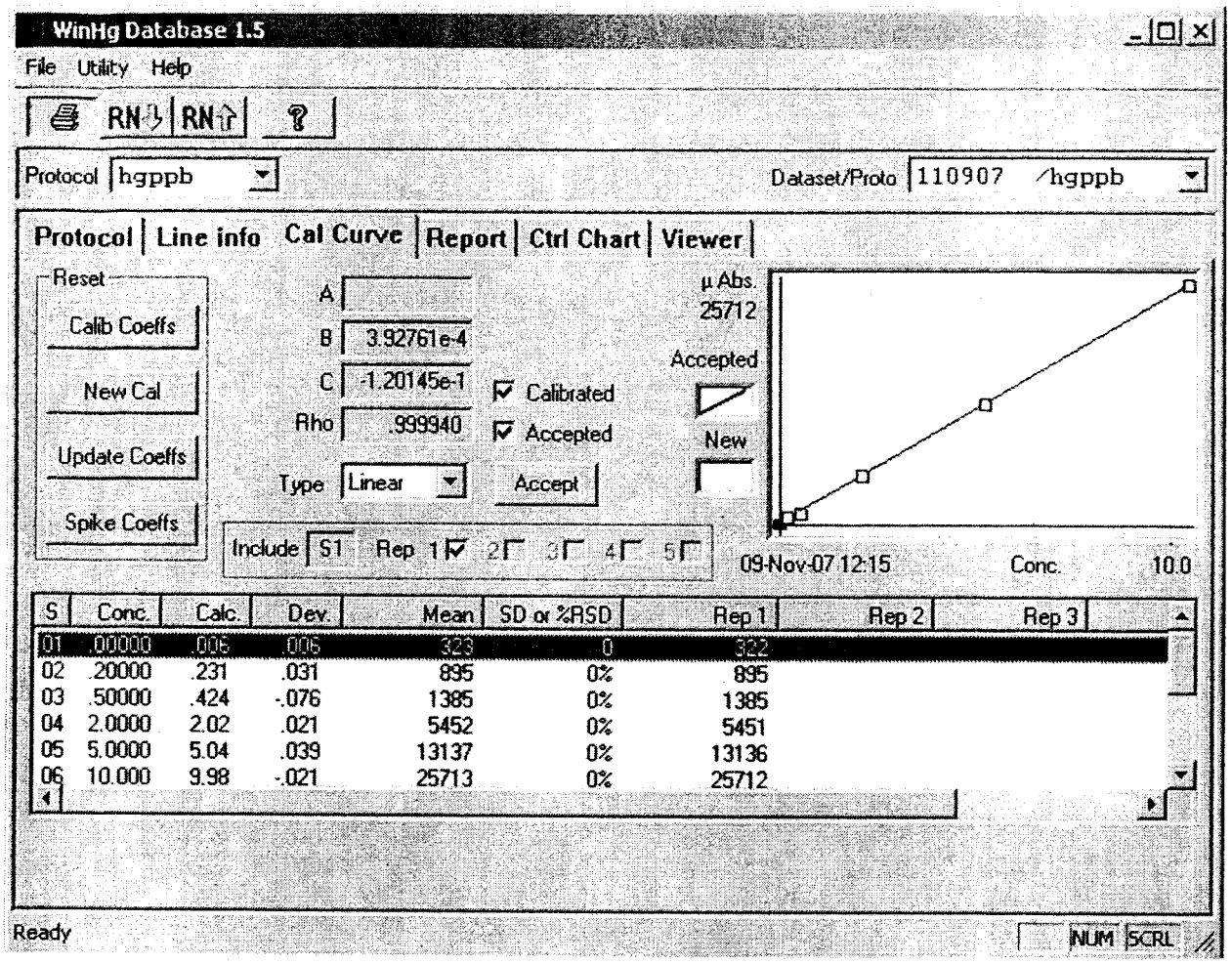
Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
ercury	0.200	16	0.500	-15	2.000	1	5.000	1	10.00	0

0 2 2 0 0 8

trument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

e 1 of 1

847451438001


WinHg Database 1.5
File Utility Help
RN RN
Protocol hgppb
Dataset/Proto 110907 /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 3.92761e-4
C -1.20145e-1
Rho .999940
Type Linear
Calibrated
Accepted
Accept
µ Abs.
25712
Accepted
New
Include S1 Rep 1 2 3 4 5
09-Nov-07 12:15
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 .005 .005 323 0 322
02 .20000 .231 .031 895 0% 895
03 .50000 .424 -.076 1385 0% 1385
04 2.0000 2.02 .021 5452 0% 5451
05 5.0000 5.04 .039 13137 0% 13136
06 10.000 9.98 -.021 25713 0% 25712
Ready
NUM SCRL

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		11:58:36 09 Nov 07		HG	
Hg	.000	ppb	322						
		Bkgd 1	17461018						= =
*** Standard: 2 Rep: 1				Seq: 2		12:01:33 09 Nov 07		HG	
Hg	.200	ppb	895						
		Bkgd 1	17458848						= =
*** Standard: 3 Rep: 1				Seq: 3		12:03:38 09 Nov 07		HG	
Hg	.500	ppb	1385						
		Bkgd 1	17452000						= =
*** Standard: 4 Rep: 1				Seq: 4		12:05:52 09 Nov 07		HG	
Hg	2.00	ppb	5451						
		Bkgd 1	17451523						= =
*** Standard: 5 Rep: 1				Seq: 5		12:08:27 09 Nov 07		HG	
Hg	5.00	ppb	13136						
		Bkgd 1	17443804						= =
*** Standard: 6 Rep: 1				Seq: 6		12:10:52 09 Nov 07		HG	
Hg	10.0	ppb	25712						
		Bkgd 1	17441701						= =
*** Check Standard: 2			Ck2S7667	Seq: 7		12:16:52 09 Nov 07		HG	
Line Flag			Intensities						
Hg			13481						
		Bkgd 1	17429762						= =
*** Check Standard: 1			CklICB	Seq: 8		12:19:06 09 Nov 07		HG	
Line Flag			Intensities						
Hg			194						
		Bkgd 1	17423159						= =
*** Sample ID: qc414594				Seq: 9		12:22:12 09 Nov 07		HG	
			131526,1						
Hg	-.013	ppb	273						
		Bkgd 1	17417637						= =

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 847451438 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 09-NOV-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
1	131526	ICALBLK	STD01REP1				09-NOV-2007 11:58	1.0	1.0									
2	131526	ICAL	STD02REP1				09-NOV-2007 12:01	1.0	1.0									
3	131526	ICAL	STD03REP1				09-NOV-2007 12:03	1.0	1.0									
4	131526	ICAL	STD04REP1				09-NOV-2007 12:05	1.0	1.0									
5	131526	ICAL	STD05REP1				09-NOV-2007 12:08	1.0	1.0									
6	131526	ICAL	STD06REP1				09-NOV-2007 12:10	1.0	1.0									
7	131526	ICV					09-NOV-2007 12:16	1.0	1.0	2	5.000	847451438001	5.170		ug/L	103		
8	131526	ICB					09-NOV-2007 12:19	1.0	1.0			847451438001	ND	0.20	ug/L			
9	131526	BLANK	QC414594		131526	Soil	09-NOV-2007 12:22	1.0	100.0			847451438001	ND	0.020	mg/Kg			u
0	131526	BS	QC414595		131526	Soil	09-NOV-2007 12:24	1.0	100.0		0.5000	847451438001	0.5210	0.020	mg/Kg	104		u
1	131526	BSD	QC414596		131526	Soil	09-NOV-2007 12:27	1.0	100.0		0.5000	847451438001	0.5220	0.020	mg/Kg	104	0	u
2	131526	MSS	199042-003		131526	Soil	09-NOV-2007 12:30	1.0	87.72			847451438001	0.025	0.020	mg/Kg			u
3	131526	SER	QC414597	199042-003	131526	Soil	09-NOV-2007 12:32	5.0	87.72			847451438001	ND	0.088	mg/Kg		--	u
4	131526	MSD	QC414599	199042-003	131526	Soil	09-NOV-2007 12:36	1.0	98.04		0.4902	847451438001	0.5373	0.020	mg/Kg	104	--	u
5	131526	MSS	199058-011		131526	Soil	09-NOV-2007 12:39	1.0	96.15			847451438001	0.032	0.020	mg/Kg			u
6	131526	SER	QC414600	199058-011	131526	Soil	09-NOV-2007 12:41	5.0	96.15			847451438001	ND	0.096	mg/Kg		--	u
7	131526	MS	QC414601	199058-011	131526	Soil	09-NOV-2007 12:44	1.0	98.04		0.4902	847451438001	0.5392	0.020	mg/Kg	104		u
8	131526	CCV					09-NOV-2007 12:46	1.0	1.0	3	2.500	847451438001	2.550		ug/L	102		
9	131526	CCB					09-NOV-2007 12:49	1.0	1.0			847451438001	[0.01800]	0.20	ug/L			
0	131526	MSD	QC414602	199058-011	131526	Soil	09-NOV-2007 12:52	1.0	96.15		0.4808	847451438001	0.5337	0.020	mg/Kg	104	1	u
1	131526	SAMPLE	198986-036		131526	Soil	09-NOV-2007 12:55	1.0	90.91			847451438001	0.040	0.020	mg/Kg			u
2	131526	SAMPLE	198986-037		131526	Soil	09-NOV-2007 12:57	1.0	76.92			847451438001	ND	0.020	mg/Kg			u
3	131526	SAMPLE	198986-093		131526	Soil	09-NOV-2007 12:59	1.0	96.15			847451438001	0.041	0.020	mg/Kg			u
4	131526	SAMPLE	199042-004		131526	Soil	09-NOV-2007 13:01	1.0	83.33			847451438001	0.014 J	0.020	mg/Kg			u
5	131526	SAMPLE	199042-005		131526	Soil	09-NOV-2007 13:03	1.0	83.33			847451438001	1.8 >LR	0.020	mg/Kg			>LR b*
6	131526	SAMPLE	199058-001		131526	Soil	09-NOV-2007 13:06	1.0	86.21			847451438001	0.043	0.020	mg/Kg			u
7	131526	SAMPLE	199058-002		131526	Soil	09-NOV-2007 13:08	1.0	104.2			847451438001	0.034	0.021	mg/Kg			u
8	131526	SAMPLE	199058-003		131526	Soil	09-NOV-2007 13:11	1.0	87.72			847451438001	0.033	0.020	mg/Kg			u
9	131526	SAMPLE	199058-004		131526	Soil	09-NOV-2007 13:13	1.0	111.1			847451438001	ND	0.022	mg/Kg			u
0	131526	CCV					09-NOV-2007 13:15	1.0	1.0	4	5.000	847451438001	5.300		ug/L	106		
1	131526	CCB					09-NOV-2007 13:18	1.0	1.0			847451438001	ND	0.20	ug/L			
2	131526	SAMPLE	199058-005		131526	Soil	09-NOV-2007 13:20	1.0	87.72			847451438001	0.022	0.020	mg/Kg			u
3	131526	SAMPLE	199058-006		131526	Soil	09-NOV-2007 13:23	1.0	81.97			847451438001	0.028	0.020	mg/Kg			u
4	131526	SAMPLE	199058-007		131526	Soil	09-NOV-2007 13:25	1.0	94.34			847451438001	ND	0.020	mg/Kg			u
5	131526	SAMPLE	199058-008		131526	Soil	09-NOV-2007 13:27	1.0	70.42			847451438001	ND	0.020	mg/Kg			u
6	131526	SAMPLE	199058-009		131526	Soil	09-NOV-2007 13:30	1.0	106.4			847451438001	ND	0.021	mg/Kg			u
7	131526	SAMPLE	199058-010		131526	Soil	09-NOV-2007 13:32	1.0	87.72			847451438001	0.025	0.020	mg/Kg			u
8	131526	SAMPLE	199058-012		131526	Soil	09-NOV-2007 13:34	1.0	94.34			847451438001	0.036	0.020	mg/Kg			u
9	131526	SAMPLE	199058-013		131526	Soil	09-NOV-2007 13:36	1.0	89.29			847451438001	ND	0.020	mg/Kg			u
0	131526	SAMPLE	199058-014		131526	Soil	09-NOV-2007 13:39	1.0	92.59			847451438001	ND	0.020	mg/Kg			u
1	131526	MS	QC414598	199042-003	131526	Soil	09-NOV-2007 13:47	1.0	81.97		0.4098	847451438001	0.5803	0.020	mg/Kg	135		u
2	131526	CCV					09-NOV-2007 13:52	1.0	1.0	5	7.500	847451438001	7.900		ug/L	105		
3	131526	CCB					09-NOV-2007 13:54	1.0	1.0			847451438001	ND	0.20	ug/L			

s used: 1=S7665 2=S7667 3=S7668 4=S7669 5=S7670
ags used: >LR=overrange b=noncompliant u=use

alyst: _____ Date: 11/9/07

e 1 of 2

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 847451438 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 09-NOV-2007
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
44	131526	SAMPLE	199042-005		131526	Soil	09-NOV-2007 14:02	5.0	83.33			847451438001	1.7	0.083	mg/Kg			u
45	131526	CCV					09-NOV-2007 14:05	1.0	1.0	5	7.500	847451438001	7.760		ug/L	103		
46	131526	CCB					09-NOV-2007 14:07	1.0	1.0			847451438001	ND	0.20	ug/L			

Stds used: 1=S7665 2=S7667 3=S7668 4=S7669 5=S7670
Flags used: >LR=overrange b=noncompliant u=use

Analyst: _____ Date: 11/9/07

Curtis & Tompkins Laboratories Sample Preparation Summary 09-NOV-2007 14:12

Batch Number : 131526
Date Extracted: 09-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7665
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
198986-036			LFR Levine Fricke	Soil	.55	g	50	90.909091	1				T26/HG		
198986-037			LFR Levine Fricke	Soil	.65	g	50	76.923077	1				T26/HG		
198986-093			LFR Levine Fricke	Soil	.52	g	50	96.153846	1				T26/HG		
199042-003			Mactec, Inc.	Soil	.57	g	50	87.719298	1				T26/HG		
199042-004			Mactec, Inc.	Soil	.6	g	50	83.333333	1				T26/HG		MSS
199042-005			Mactec, Inc.	Soil	.6	g	50	83.333333	1				T26/HG		
199058-001			CH2M Hill Constructors Inc.	Soil	.58	g	50	86.206897	1				T26/HG		
199058-002			CH2M Hill Constructors Inc.	Soil	.48	g	50	104.166667	1				T26/HG		
199058-003			CH2M Hill Constructors Inc.	Soil	.57	g	50	87.719298	1				T26/HG		
199058-004			CH2M Hill Constructors Inc.	Soil	.45	g	50	111.111111	1				T26/HG		
199058-005			CH2M Hill Constructors Inc.	Soil	.57	g	50	87.719298	1				T26/HG		
199058-006			CH2M Hill Constructors Inc.	Soil	.61	g	50	81.967213	1				T26/HG		
199058-007			CH2M Hill Constructors Inc.	Soil	.53	g	50	94.339623	1				T26/HG		
199058-008			CH2M Hill Constructors Inc.	Soil	.71	g	50	70.422535	1				T26/HG		
199058-009			CH2M Hill Constructors Inc.	Soil	.47	g	50	106.382979	1				T26/HG		
199058-010			CH2M Hill Constructors Inc.	Soil	.57	g	50	87.719298	1				T26/HG		
199058-011			CH2M Hill Constructors Inc.	Soil	.52	g	50	96.153846	1				T26/HG		
199058-012			CH2M Hill Constructors Inc.	Soil	.53	g	50	94.339623	1				T26/HG		MSS
199058-013			CH2M Hill Constructors Inc.	Soil	.56	g	50	89.285714	1				T26/HG		
199058-014			CH2M Hill Constructors Inc.	Soil	.54	g	50	92.592593	1				T26/HG		
QC414594	BLANK			Soil	.5	g	50	100.000000	1				HG		
QC414595	BS			Soil	.5	g	50	100.000000	1	2.5			HG		
QC414596	BSD			Soil	.5	g	50	100.000000	1	2.5			HG		
QC414597	SER	of 199042-003		Soil	.57	g	50	87.719298	1				HG		
QC414598	MS	of 199042-003		Soil	.61	g	50	81.967213	1	2.5			HG		
QC414599	MSD	of 199042-003		Soil	.51	g	50	98.039216	1	2.5			HG		
QC414600	SER	of 199058-011		Soil	.52	g	50	96.153846	1				HG		
QC414601	MS	of 199058-011		Soil	.51	g	50	98.039216	1	2.5			HG		
QC414602	MSD	of 199058-011		Soil	.52	g	50	96.153846	1	2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11.9

Relinquished By: _____ Received By: _____ Date: 11/9/07

0523T

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: B1526

Date Digested: 111907

Digested by: SXM

Digestion Method

☒ EPA 7471A

☐ _____

BK 2605

Page 18

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
198986 - 036 A	0.55	50.0	Y	
037	0.65			
093	0.52			
199042 - 003 MSS	0.57			MSS
004	0.60			
005	0.60			
199058-001 D	0.58			
-002	0.48			
-003	0.57			
-004	0.45			
-005	0.57			
-006	0.61			
-007	0.53			
-008	0.71			
-009	0.47			
-010	0.57			
-011 MSS J	0.52			MSS
-012 D	0.53			
-013 D	0.56			
-014 D	0.54			
Blnk	0.5			
BS	0.5			
BSD	0.5			
MS 199055 -003	0.61			
MSD	0.51			

25 mL of spike solution was added to all spikes

Reagent ID/ LIMS# / Time	Initials / Date
57665	SXM 111907
ICAL Source WS#	
ICV / CCV WS# 57667/66/68/70	
Digestion of Samples & Standards: Time ON / Temperature ON 10:30/95C	
Time OFF/ Temperature OFF 11:00 /95C	
Aqua Regia Acids (HNO3+ HCl) AR 110907	
5% $KMnO_4$ K 110907	
NaCl.hydroxylamine hydrochloride Hy 101807	
Stannous Chloride $SnCl_2$ 110507	
☐ filtered thru' 0.45 um syringe filter R7CN29862	

111907

Prep Chemist / Date

Continued from page 1

Continued on page 19

11-9-07

Reviewed by / Date

Soil Digestion for Mercury

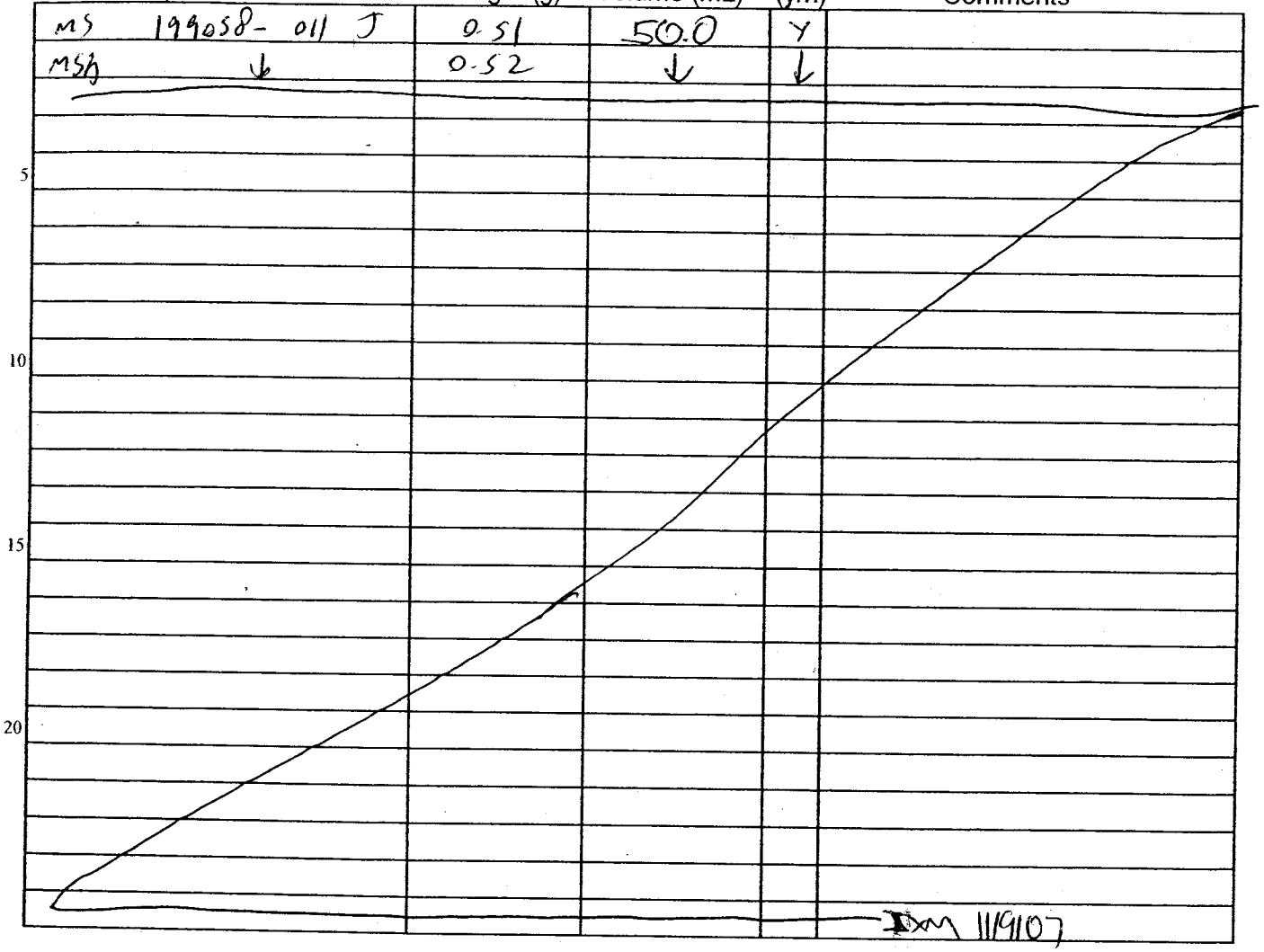
Curtis & Tompkins, Ltd.

LIMS Batch #: 131526
Date Digested: 11/9/07
Digested by: JXM

Digestion Method
☒ EPA 7471A
☐ _____

BK 2605
Page 19

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
MS 199058-011 J	0.51	50.0	Y	
MSD ↓	0.52	↓	↓	



Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes: 57665	JXM 11/9/07
ICAL Source WS#	↓
ICV / CCV WS#	57667 68 69 70
Digestion of Samples & Standards: Time ON / Temperature ON	10:30 / 95C
Time OFF/ Temperature OFF	11:00 / 95C
Aqua Regia Acids (HNO3+ HCl)	AR 110107
5% $KMnO_4$	K 110107
NaCl.hydroxylamine hydrochloride	Hy 101607
Stannous Chloride	$SnCl_2$ 110507
☐ filtered thru' 0.45 um syringe filter	R7CN29867

11/9/07
Prep Chemist / Date

Continued from page 18
Continued on page 1

Reviewed by / Date

Curtis & Tompkins, Ltd.

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	131491
Matrix:	Soil	Sampled:	11/07/07
Units:	%	Received:	11/07/07
Diln Fac:	1.000	Analyzed:	11/08/07

Field ID	Lab ID	Result	RL
1065EX363[8.0]	199042-003	19	1
1065EX364[6.0]	199042-004	17	1
1065EX365[6.5]	199042-005	16	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture			
Lab #:	199042	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	131491
MSS Lab ID:	198982-017	Sampled:	11/05/07
Lab ID:	QC414460	Received:	11/05/07
Matrix:	Soil	Analyzed:	11/08/07

MSS Result	Result	RL	RPD	Lim
31.81	33.27	1.000	4	15

RL= Reporting Limit
RPD= Relative Percent Difference

44.0

Percent Moisture Summary Report

Batch: 131491
Date: 11/08/07
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
198982-001	11.2880	19.8234	18.3342	83	17
198982-002	11.0747	18.2589	16.5005	76	24
198982-003	11.3875	17.2997	15.6250	72	28
198982-004	10.8874	18.7329	17.1089	79	21
198982-005	11.3488	18.5094	16.0479	66	34
198982-006	11.1492	19.7356	17.7143	76	24
198982-007	11.0377	19.3731	18.0845	85	15
198982-008	10.9809	20.1739	18.4349	81	19
198982-009	10.9611	19.9600	18.4692	83	17
198982-010	11.0812	18.3431	16.4524	74	26
198982-011	10.9622	19.9546	17.9683	78	22
198982-012	11.0988	19.2578	17.3172	76	24
198982-013	10.8887	18.8578	16.3242	68	32
198982-014	11.2243	17.0692	14.8756	62	38
198982-015	11.1534	19.8704	18.4134	83	17
198982-016	11.5997	19.4040	18.0646	83	17
198982-017	11.4440	19.3949	16.8654	68	32
199042-003	11.3599	20.8149	18.9997	81	19
199042-004	11.0707	20.2852	18.7115	83	17
199042-005	11.0963	20.0896	18.6200	84	16
QC414460	11.3199	19.8661	17.0227	67	33
of 198982-017			RPD:	2.2%	4.5%

11-08-07

Bk# 13491

Sample	SL	DISh	DISh Wt.	Sample wt.	Final wt.	Comments
BIK	QC	CT12	11.3822	∅	11.3816	
199762-001	A	C29	11.2880	19.8234	18.3342	
- 002		~~BCH AD6 11.0747~~	11.0747	18.2589	16.5005	
- 003		E02	11.3895	17.2997	15.6250	
- 004		ULI	10.8874	18.7329	17.1089	
- 005		B11	11.3488	18.5094	16.0479	
- 006		LA5	11.1492	19.7356	17.7143	
- 007		B104	11.0377	19.3731	18.0845	
- 008		12A	10.9809	20.1739	18.4349	
- 009		DFW	10.9611	19.9600	18.4692	
- 010		B109	11.0812	18.3431	16.4524	
- 011		B118	10.9622	19.9546	17.9683	
012		2BM	11.0988	19.2578	17.3172	
013		ZAX	10.8887	18.8578	16.3242	
- 014		HMD	11.2243	17.0692	14.8756	
- 015		B115	11.1534	19.8704	18.4134	
- 016		A09	11.5997	19.4090	18.0646	
- 017		B16	11.4440	19.3999	16.8654	
DUP - 017		E09	11.3199	19.8661	17.0227	
199042 - 003	A	E03	11.3599	20.8149	18.9997	
of		B191	11.0707	20.2852	18.7115	
005		B121	11.0963	20.0896	18.6260	

TIME IN 6PM
OUT 11AM
OVEN TEMP 105°C

11.8.07

11-9-07

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131491
Date Started: 08-NOV-2007
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
198982-001		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-002		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-003		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-004		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-005		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-006		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-007		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-008		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-009		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-010		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-011		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-012		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-013		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-014		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-015		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-016		Innovative Technic	Soil	MOISTURE	09-NOV-2007
198982-017		Innovative Technic	Soil	MOISTURE	09-NOV-2007
199042-003		Mactec, Inc.	Soil	MOISTURE	09-NOV-2007
199042-004		Mactec, Inc.	Soil	MOISTURE	09-NOV-2007
199042-005		Mactec, Inc.	Soil	MOISTURE	09-NOV-2007
QC414460	SDUP of 198982-017		Soil	MOISTURE	

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	HO	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	105°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	HO	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HO	105°C
10-7-07	HO	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HO	104°C
10-14-07	HO	104°C
10-16-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HO	105°C
10-21-07	HO	105°C
10-22-07	VV	103°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	HO	105°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	MOH	103°C
11-1-07	VV	103°C
11-2-07	VV	104°C
11-3-07	HO	105°C
11-4-07	HO	105°C

Date	Initials	Temp (*C)
11-5-07	VV	103°C
11-6-07	VV	104°C
11-07-07	VV	103°C
11-8-07	VV	105°C
11-9-07	VV	105°C

PROJECT METTLER AE-2000 NoteBook No. BK752

Continued From Page 0

DATE	0-2000	1.0000	10.0000	50.0000	INTIAL	Weight SET
10-19-07	0.2000	1.0000	10,0000	50.0000	VV	35298
10-20-07	0.2000	1.0000	10.0000	50.0000	TO	35298
10-21-07	0.2000	1.0000	10.0000	50.0000	HO	35298
10-22-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-23-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-24-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-25-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-27-07	0.2000	1.0000	10.0000	50.0000	HO	35298
10-29-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-30-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-31-07	0.2000	1.0000	10.0000	50.0000	MO	35298
11-1-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-2-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-3-07	0.2000	1.0000	10.0000	49.9999	HO	35298
11-4-07	0.2000	1.0000	10.0000	50.0000	TO	35298
11-5-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-6-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-7-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-8-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-9-07	0.2000	1.0000	10.0000	50.0000	VV	35298

Continued on Page

Read and Understood By

Signed Date Witnessed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 199163
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 EX 2 Presidio Level : III

Sample ID	Lab ID
1065EX341[7.0]	199163-001
DUP111207	199163-002
1065EX342[5.0]	199163-003
1065EX343[5.0]	199163-004
1065EX344[5.0]	199163-005
1065EX345[5.0]	199163-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/07/2007
Project Manager

Signature: _____ Date: 12/10/2007
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**199163**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 EX 2 Presidio**
Request Date:	**11/12/07**
Samples Received:	**11/12/07**

This hardcopy data package contains sample and QC results for six soil samples, requested for the above referenced project on 11/12/07. The samples were received on ice and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
5035 samples not analyzed within 48 hours were frozen. Low recoveries were observed for gasoline C7-C12 in the MS/MSD of 1065EX343[5.0] (lab # 199163-004); these low recoveries were confirmed by re-analysis, the LCS was within limits, and the associated RPD was within limits. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 131668; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
5035 samples not analyzed within 48 hours were frozen. Matrix spikes were not reported for batch 131629 because the parent sample required reanalysis in another batch. Low response was observed for Freon 113 in the CCV analyzed 11/12/07 16:39; this analyte met minimum response criteria. High responses were observed for acetone and Freon 12 in the CCV analyzed 11/13/07 11:38; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b". Acetone and methylene chloride were detected between the MDL and the RL in the method blank for batch 131629 and the method blank for batch 131648; these analytes were not detected in samples at or above the RL. Methylene chloride was detected between the MDL and the RL in many samples; this analyte is a common laboratory contaminant. 1065EX343[5.0] (lab # 199163-004) was not diluted; the low sample weight is due to 5035 packaging. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
High responses were observed for dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene in the CCV analyzed 11/13/07 19:26; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b". 1065EX342[5.0] (lab # 199163-003) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**199163**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 EX 2 Presidio**
Request Date:	**11/12/07**
Samples Received:	**11/12/07**

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 1065EX343[5.0] (lab # 199163-004); the BS/BSD were within limits, and the associated RPD was within limits. High recoveries were observed for a number of analytes; the BS/BSD were within limits. High RPD was observed for copper, lead, and zinc; the RPD was acceptable in the BS/BSD. Low recoveries were observed for many analytes in the MS/MSD for batch 131692; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. High % difference was observed for antimony in the serial dilution of 1065EX343[5.0] (lab # 199163-004). Many analytes were detected between the MDL and the RL in the method blank for batch 131692; these analytes were either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):

High RPD was observed for moisture, percent in the SDUP of 1065EX341[7.0] (lab # 199163-001). No other analytical problems were encountered.

#
51.0

: 00003

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3826

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

199163

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 EX2
JOB NO.: 408407515 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 11/12/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) w/ Oxygenates	TPHd	TPHg w/ 5-Hexane	PAHs (8270-SIM)	Title 22 Metals	FOR LAB USE ONLY
1150	X		SO	1065EX341[7.0]	69N37E-7		7	X	X	X	X	X	
1150	X		SO	DUP111207			7	X	X	X	X	X	
1015	X		SO	1065EX342[5.0]	69N32E-5		7	X	X	X	X	X	
1020	X		SO	1065EX343[5.0]	64N38E-5		14	X	X	X	X	X	
1030	X		SO	1065EX344[5.0]	74N35E-5		7	X	X	X	X	X	
1040	X		SO	1065EX345[5.0]	70N41E-5		7	X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	11/12/07 1215	TraEX080	11/12 1215			11/12/07 12:15

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
48hr TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 199163 Date Received: 11/12/07 Number of Coolers: 1
Client: MacTec Project: Presidio Trust Bldg 1063

A. Preliminary Examination Phase
Date Opened: 11/12 By (print): KWellbrock (sign) KWellbrock

1. Did cooler come with a shipping slip (airbill, etc.)? YES (NO)
If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? YES (NO)
How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO N/A
4. Were custody papers dry and intact when received? (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? (YES) NO
6. Did you sign the custody papers in the appropriate place? (YES) NO
7. Was project identifiable from custody papers? (YES) NO
If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: bags KMW 11/12/07
9. If required, was sufficient ice used? Samples should be <=6 degrees C. (YES) NO
Type of ice: wet Temperature: no temp blank - cold on ice
10. Were Encore sampling devices present in the cooler? (YES) NO
If YES, enter time they were transferred to the freezer 1400

B. Login Phase
Date Logged In: 11/12 By (print): KWellbrock (sign) KWellbrock

1. Did all bottles arrive unbroken? (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? (YES) NO*
3. Did bottle labels agree with custody papers? YES NO*
4. Were appropriate containers used for the tests indicated? (YES) NO
5. Were correct preservatives added to samples? N/A YES NO
6. Was sufficient amount of sample sent for tests indicated? (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below. N/A YES NO
8. Was the client contacted concerning this sample delivery? YES NO
If YES, give details below.
Who was called? By whom? Date:

Additional Comments:
BB: Sent 2 cores w/ ID "1065EX341[7.0]" and no core for "DUP111207" & labelled one as DUP per SES

TPH-PURGEABLE HYDROCARBONS IN SOIL

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	131668
Units:	mg/Kg	Sampled:	11/12/07
Diln Fac:	1.000	Received:	11/12/07

Field ID: 1065EX341[7.0] Basis: dry
Type: SAMPLE Moisture: 18%
Lab ID: 199163-001 Analyzed: 11/13/07

Analyte	Result	RL	MDL
Gasoline C7-C12	0.044 J	0.22	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	84	65-135
Bromofluorobenzene (FID)	93	65-135

Field ID: DUP111207 Basis: dry
Type: SAMPLE Moisture: 23%
Lab ID: 199163-002 Analyzed: 11/13/07

Analyte	Result	RL	MDL
Gasoline C7-C12	0.076 J	0.25	0.018

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	65-135
Bromofluorobenzene (FID)	102	65-135

Field ID: 1065EX342[5.0] Basis: dry
Type: SAMPLE Moisture: 9%
Lab ID: 199163-003 Analyzed: 11/14/07

Analyte	Result	RL	MDL
Gasoline C7-C12	0.041 J	0.21	0.015

Surrogate	%REC	Limits
Trifluorotoluene (FID)	83	65-135
Bromofluorobenzene (FID)	93	65-135

Field ID: 1065EX343[5.0] Basis: dry
Type: SAMPLE Moisture: 11%
Lab ID: 199163-004 Analyzed: 11/13/07

Analyte	Result	RL	MDL
Gasoline C7-C12	0.027 J	0.23	0.017

Surrogate	%REC	Limits
Trifluorotoluene (FID)	84	65-135
Bromofluorobenzene (FID)	96	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	131668
Units:	mg/Kg	Sampled:	11/12/07
Diln Fac:	1.000	Received:	11/12/07

Field ID:	1065EX344[5.0]	Basis:	dry
Type:	SAMPLE	Moisture:	13%
Lab ID:	199163-005	Analyzed:	11/13/07

Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.21	0.015

Surrogate	%REC	Limits
Trifluorotoluene (FID)	82	65-135
Bromofluorobenzene (FID)	93	65-135

Field ID:	1065EX345[5.0]	Basis:	dry
Type:	SAMPLE	Moisture:	12%
Lab ID:	199163-006	Analyzed:	11/13/07

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.23	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	77	65-135
Bromofluorobenzene (FID)	91	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC415162	Analyzed:	11/13/07

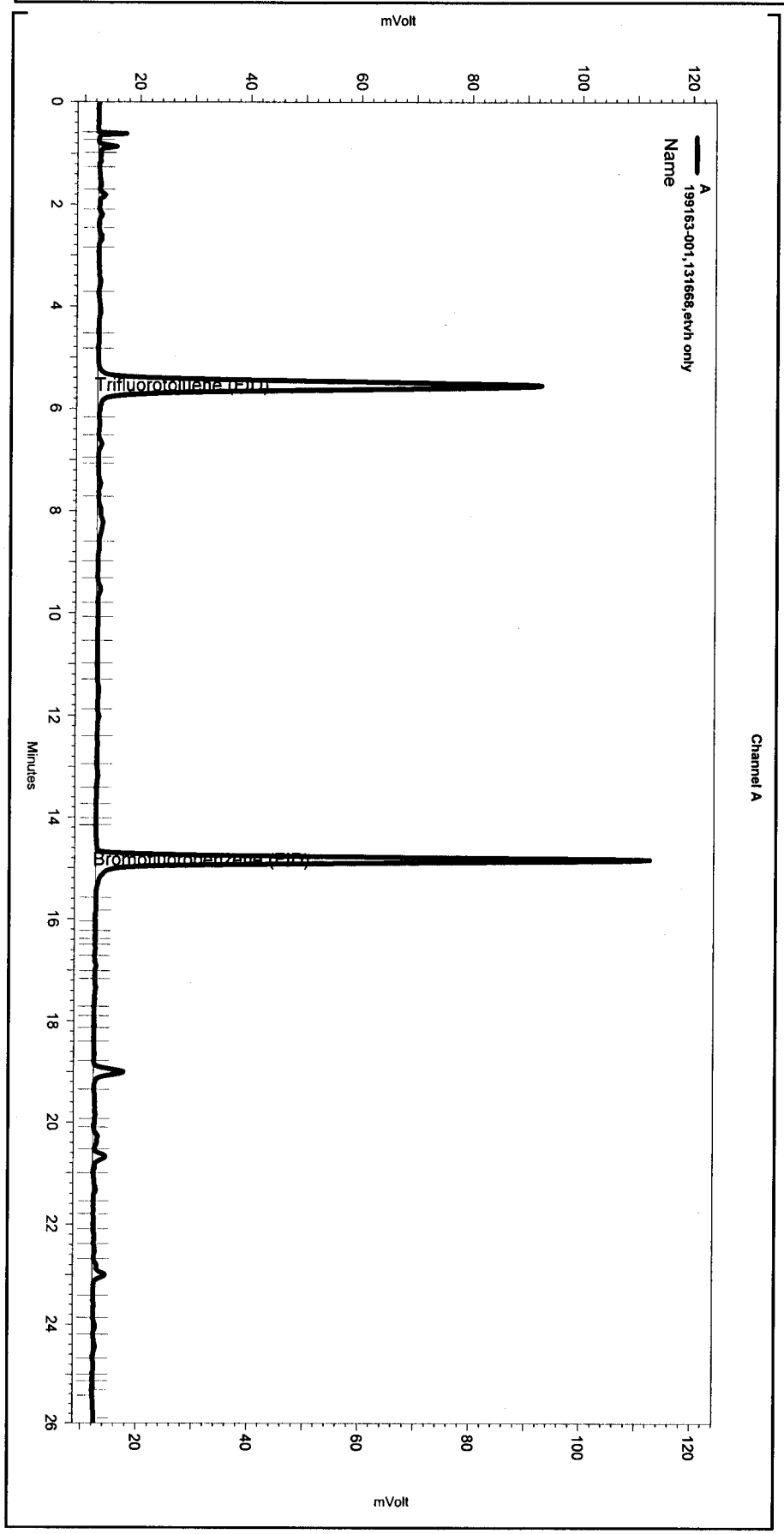
Analyte	Result	RL	MDL
Gasoline C7-C12	0.017 J	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	94	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\317.seq**
Sample Name: **199163-001,131668,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\317_007**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe310.met

Software Version 3.1.7
Run Date: 11/13/2007 1:36:16 PM
Analysis Date: 11/14/2007 8:41:58 AM
Sample Amount: 5.52 Multiplier: 5.52
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

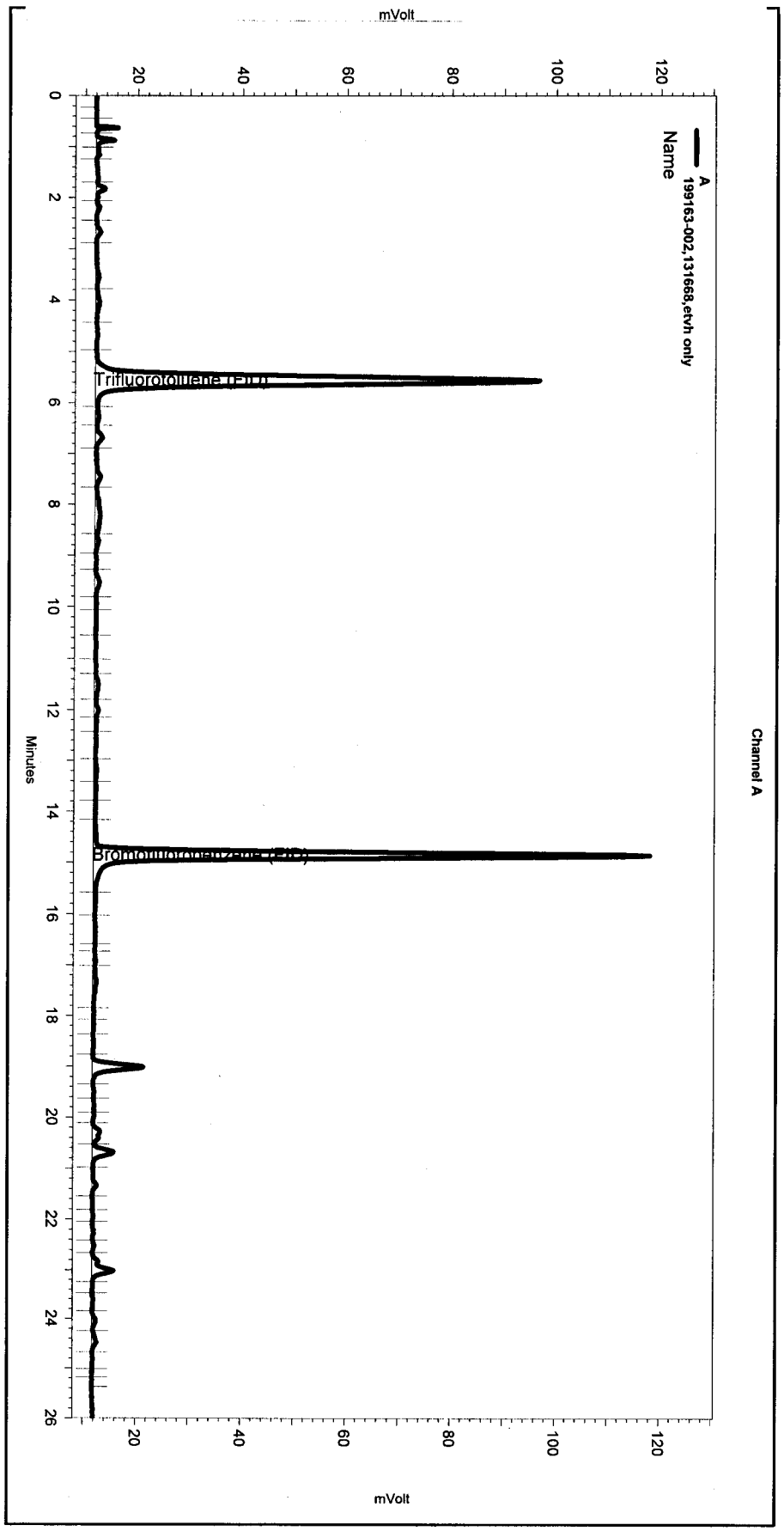
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\317_007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\317.seq**
Sample Name: **199163-002,131668,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\317_008**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe310.met

Software Version 3.1.7
Run Date: 11/13/2007 2:12:07 PM
Analysis Date: 11/14/2007 8:42:02 AM
Sample Amount: 5.19 Multiplier: 5.19
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\317_008

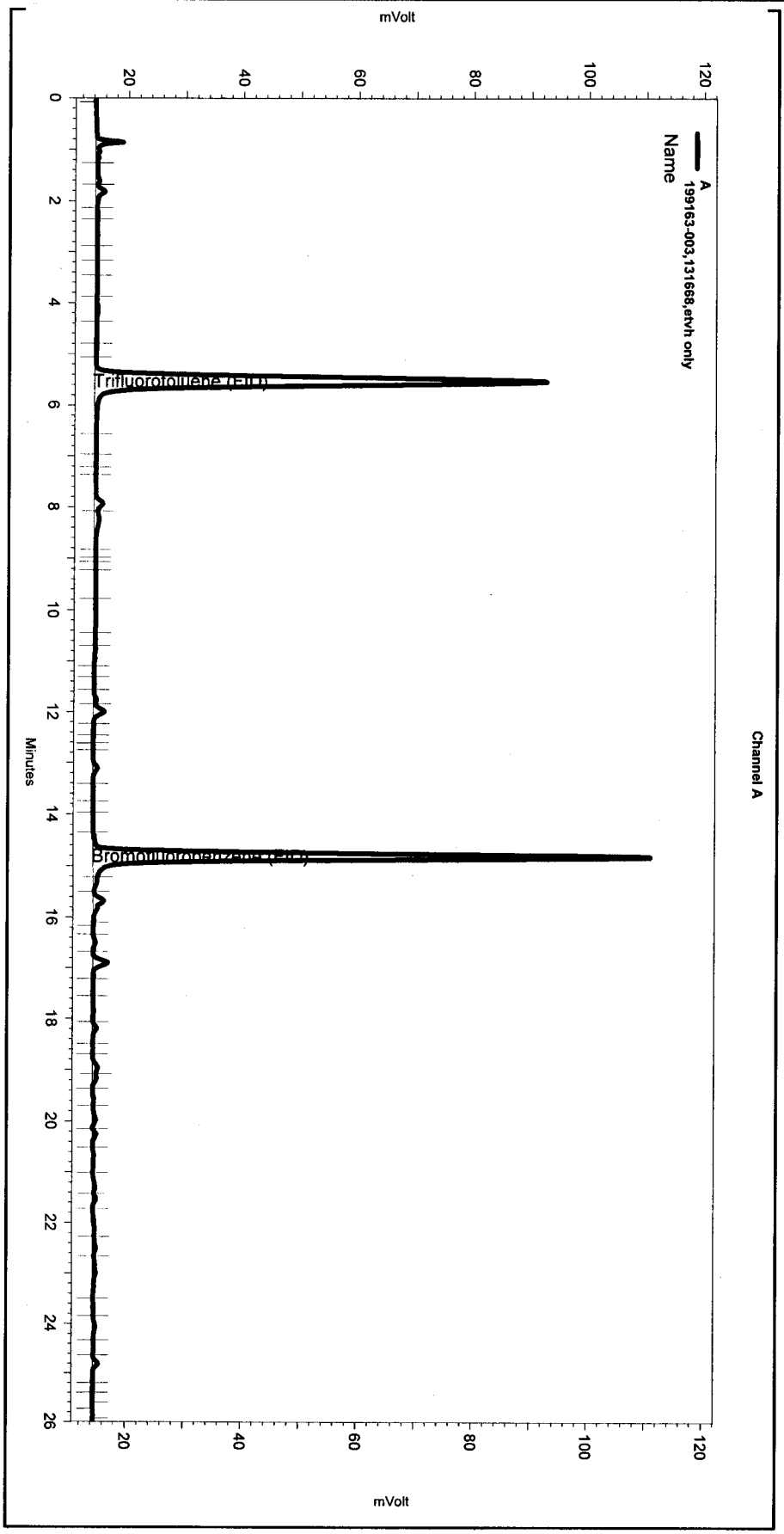
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

00011

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\317.seq**
Sample Name: **199163-003,131668,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\317_031**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe310.met

Software Version 3.1.7
Run Date: 11/14/2007 11:02:17 AM
Analysis Date: 11/14/2007 11:39:57 AM
Sample Amount: 5.23 Multiplier: 5.23
Vial & pH or Core ID: d



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

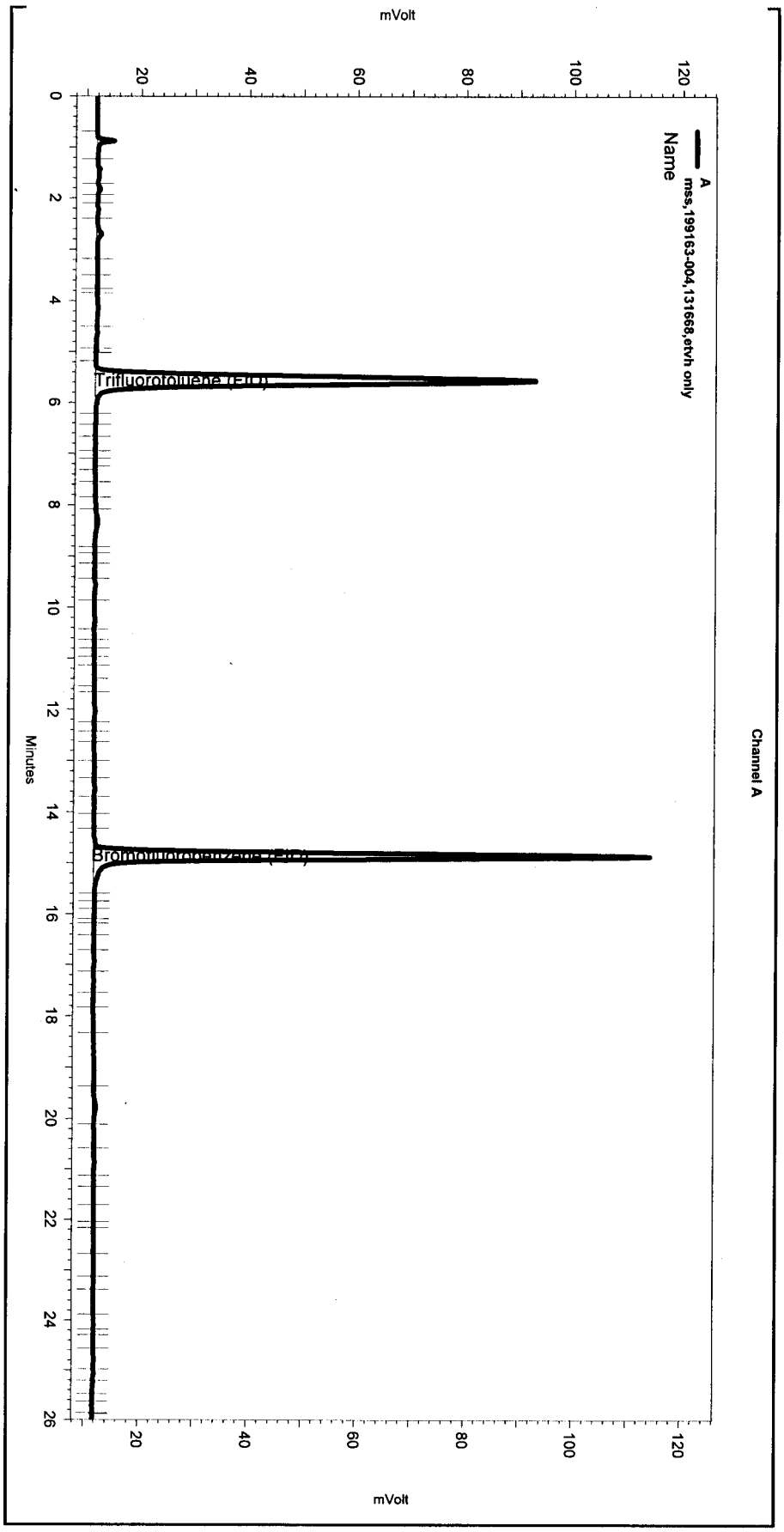
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\317_031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	15.219	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\317.seq
Sample Name: **mss,199163-004,131668,etvh only**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\317_010
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe310.met

Software Version 3.1.7
Run Date: 11/13/2007 3:23:44 PM
Analysis Date: 11/14/2007 8:42:09 AM
Sample Amount: 4.8 Multiplier: 4.8
Vial & pH or Core ID: f



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\317_010

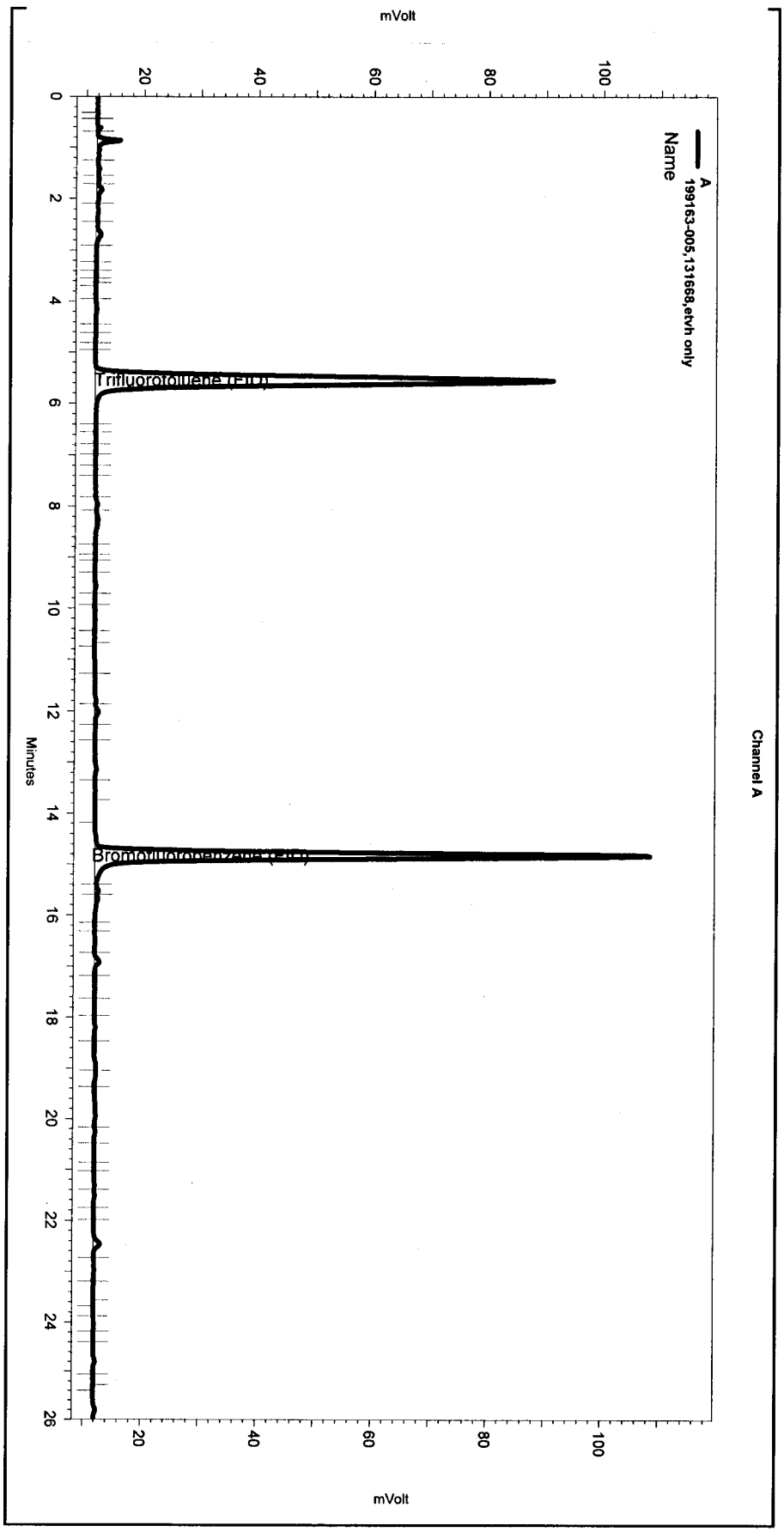
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

00213

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\317.seq**
Sample Name: **199163-005,131668,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\317_015**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe310.met

Software Version 3.1.7
Run Date: 11/13/2007 6:42:05 PM
Analysis Date: 11/14/2007 8:42:27 AM
Sample Amount: 5.41 Multiplier: 5.41
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

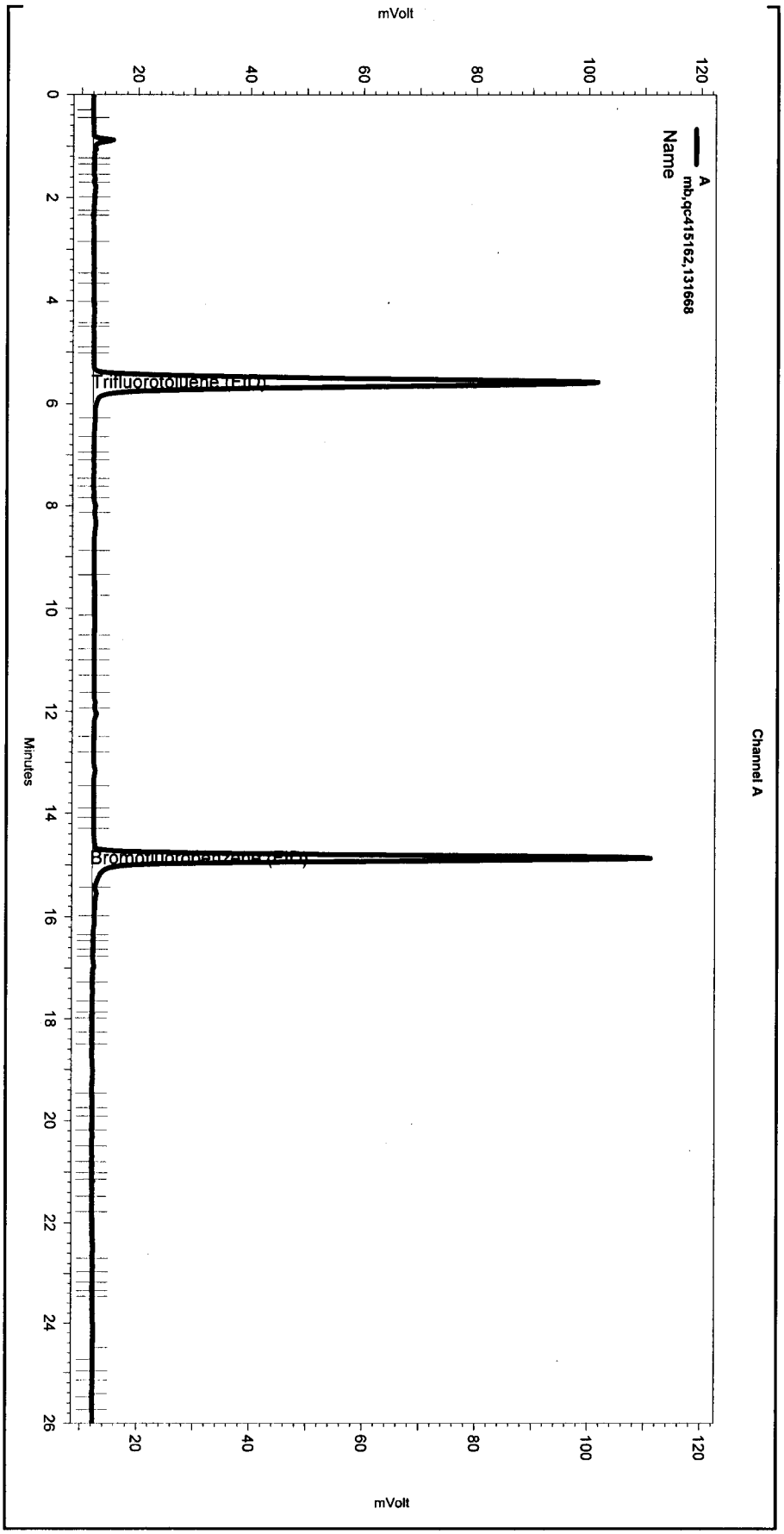
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\317_015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\317.seq
Sample Name: **mb,qc415162,131668**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\317_005
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe310.met

Software Version 3.1.7
Run Date: 11/13/2007 10:48:11 AM
Analysis Date: 11/14/2007 8:41:51 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\317_005

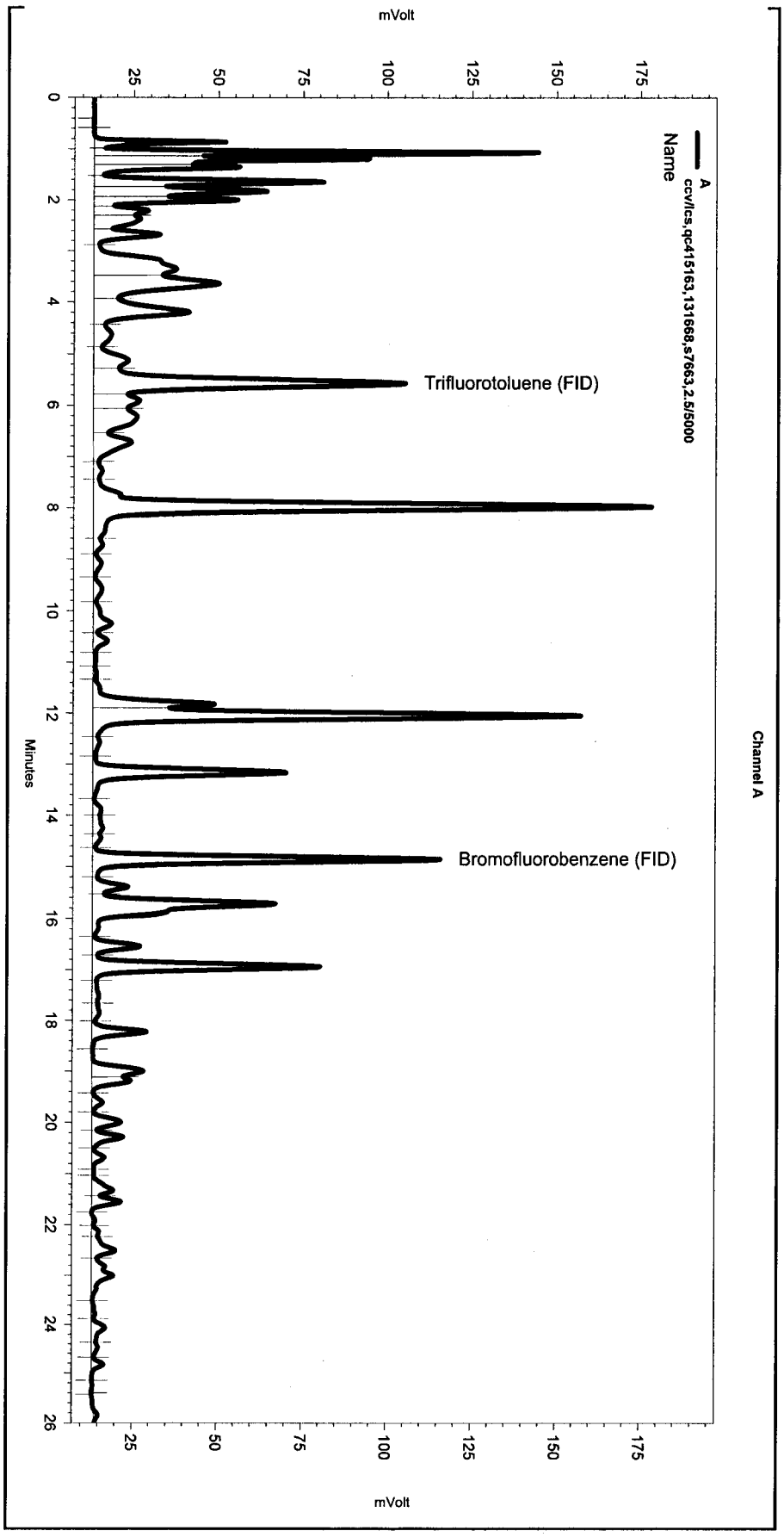
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

00015

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\317.seq**
Sample Name: **ccv/lcs,qc415163,131668,s7663,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\317_002**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe310.met

Software Version 3.1.7
Run Date: 11/13/2007 8:29:14 AM
Analysis Date: 11/14/2007 8:41:40 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\317_002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC415163	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131668
Units:	mg/Kg	Analyzed:	11/13/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.107	102	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	95	65-135

35 0

00017

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX343[5.0]	Diln Fac:	1.000
MSS Lab ID:	199163-004	Batch#:	131668
Matrix:	Soil	Sampled:	11/12/07
Units:	mg/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/14/07

Type: MS Moisture: 11%
Lab ID: QC415164

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.02666	2.302	1.487	63 *	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	101	65-135

Type: MSD Moisture: 11%
Lab ID: QC415165

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.186	1.291	58 *	75-125	9	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	99	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

00019

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 GCVOA Soil: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199163 GCVOA Soil
EPA 8015B

Inst : GC07 Name : GC07 GAS 295
Calnum : 327425380001 Cal Date : 22-OCT-2007

ICV 327425380018 (295_018 22-OCT-2007) stds: S7423 (1000X), S7273 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1690.1	1688.0	10000	9988	ng	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 327446934001
Units : ng

Name : GC07 MBTXE/SURR 310
Date : 07-NOV-2007 05:22
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	310_033	327446934033	BTXE_1	07-NOV-2007 05:22	S7260 (1000X), S7356 (5000X)
L2	310_034	327446934034	MBTXE_2	07-NOV-2007 05:58	S7258 (1250X), S7356 (5000X)
L3	310_035	327446934035	MBTXE_3	07-NOV-2007 06:34	S7258 (500X), S7356 (5000X)
L4	310_036	327446934036	MBTXE_4	07-NOV-2007 07:10	S7258 (125X), S7356 (5000X)
L5	310_037	327446934037	MBTXE_5	07-NOV-2007 07:45	S7257 (1000X), S7356 (5000X)
L6	310_038	327446934038	MBTXE_6	07-NOV-2007 08:21	S7257 (500X), S7356 (5000X)
L7	310_039	327446934039	MBTXE_7	07-NOV-2007 08:57	S7257 (250X), S7356 (5000X)
L8	310_040	327446934040	MTBE_7	07-NOV-2007 09:33	S6302 (500X), S7356 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2461.0	2340.9	2344.1	2397.3	2454.1	2455.5	2528.6	2406.0	AVRG		4.13E-4		2423.4	3	0.995	20	
Bromofluorobenzene (FID)	A	2059.7	1871.1	1908.1	1964.6	1966.6	2014.2	2051.2	1948.0	AVRG		5.07E-4		1972.9	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	2	450.0	-3	450.0	-3	450.0	-1	450.0	1	450.0	1	450.0	4	450.0	-1
Bromofluorobenzene (FID)	A	450.0	4	450.0	-5	450.0	-3	450.0	0	450.0	0	450.0	2	450.0	4	450.0	-1

MJM 11/08/07 [Benzene C]: Fails %RSD Ch. C. Report analyte from Ch. B only and Ch. C to be used as confirm.

Analyst: MJM Date: 11/08/07 Reviewer: LH Date: 11/08/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS SPIKE USER REPORT FOR 199163 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC415163 IDF : 1.0
Seqnum : 327456953002.1 File : 317_002 Time : 13-NOV-2007 08:29
Standards: S7663 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1726.3	5000	5107	ng	2	15	u
Trifluorotoluene (FID)	A	327446934001	07-NOV-2007	2423.4	2516.7	450.0	467.3	ng	4	15	u
Bromofluorobenzene (FID)	A	327446934001	07-NOV-2007	1972.9	1879.0	450.0	428.6	ng	-5	15	u

Analyst: PDM Date: 11/14/07 Reviewer: LH Date: 11/14/07

u=use

327456953002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : MBTXE IDF : 1.0
Seqnum : 327456953012 File : 317_012 Time : 13-NOV-2007 16:54
Cal : 327446934001 Caldate : 07-NOV-2007
Standards: S7564 (666.7X), S7356 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	2423.4	2155.9	450.0	400.3	ng	-11	15	
Bromofluorobenzene (FID)	A	1972.9	1844.2	450.0	420.6	ng	-7	15	

PDM 11/14/07 [Trifluorotoluene (PID) C]: Passes control limits.

PDM 11/14/07 : will not report Benzene from Channel C

Analyst: PDM Date: 11/14/07 Reviewer: LH Date: 11/14/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327456953013 File : 317_013 Time : 13-NOV-2007 17:29
Standards: S7663 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1551.6	15000	13770	ng	-8	15	
Trifluorotoluene (FID)	A	327446934001	07-NOV-2007	2423.4	3008.1	450.0	558.6	ng	**24**	15	c+
Bromofluorobenzene (FID)	A	327446934001	07-NOV-2007	1972.9	1949.2	450.0	444.6	ng	-1	15	

PDM 11/14/07 : PID surrogates are not applicable.

PDM 11/14/07 [Trifluorotoluene (FID) A]: Passes control limits.

Analyst: PDM Date: 11/14/07 Reviewer: LH Date: 11/14/07

+=high bias c=CCV

327456953013

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327456953027 File : 317_027 Time : 14-NOV-2007 08:39
Standards: S7663 (1000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1744.1	10000	10320	ng	3	15	
Trifluorotoluene (FID)	A	327446934001	07-NOV-2007	2423.4	2779.3	450.0	516.1	ng	15	15	
Bromofluorobenzene (FID)	A	327446934001	07-NOV-2007	1972.9	1960.8	450.0	447.2	ng	-1	15	

Analyst: PDM Date: 11/14/07 Reviewer: LH Date: 11/14/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 327456953034 File : 317_034 Time : 14-NOV-2007 13:06
Standards: S7663 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1544.4	15000	13710	ng	-9	15	
Trifluorotoluene (FID)	A	327446934001	07-NOV-2007	2423.4	3170.6	450.0	588.7	ng	**31**	15	c+
Bromofluorobenzene (FID)	A	327446934001	07-NOV-2007	1972.9	2052.0	450.0	468.0	ng	4	15	

PDM 11/14/07 : PID surrogates are not applicable.

PDM 11/14/07 [Trifluorotoluene (FID) A]: Passes control limits.

Analyst: PDM Date: 11/14/07 Reviewer: LH Date: 11/14/07

+=high bias c=CCV

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327425380

Instrument : GC07 Begun : 10/22/07 09:40
Method : EPA 8015B, EPA 8021B SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	295_001	X	IB			10/22/07 09:40	1.0	1
002	295_002	X	IB			10/22/07 10:15	1.0	1
003	295_003	X	ICAL			10/22/07 10:50	1.0	2 1
004	295_004	X	ICAL			10/22/07 12:00	1.0	3 1
005	295_005	X	ICAL			10/22/07 12:35	1.0	4 1
006	295_006	X	ICAL			10/22/07 13:45	1.0	5 1
007	295_007	X	ICAL			10/22/07 15:09	1.0	5 1
008	295_008	X	IB			10/22/07 16:45	1.0	1
009	295_009	X	ICAL			10/22/07 17:21	1.0	6 1
010	295_010	X	IB			10/22/07 18:37	1.0	1
011	295_011	IB	CALIB			10/22/07 19:13	1.0	1
012	295_012	ICAL	TVH 1			10/22/07 19:49	1.0	2 1
013	295_013	ICAL	TVH 2			10/22/07 20:24	1.0	3 1
014	295_014	ICAL	TVH 3			10/22/07 21:00	1.0	4 1
015	295_015	ICAL	TVH 4			10/22/07 21:36	1.0	5 1
016	295_016	ICAL	TVH 5			10/22/07 22:11	1.0	5 1
017	295_017	X	IB			10/22/07 22:47	1.0	1
018	295_018	ICV	TVH			10/22/07 23:23	1.0	6 1
019	295_019	X	ICV			10/22/07 23:59	1.0	6 1
020	295_020	X	IB			10/23/07 00:35	1.0	1
021	295_021	CMARKER				10/23/07 01:10	1.0	7 1

Analyst: MJM Date: 10/24/07 Reviewer: LH Date: 10/24/07

Standards used: 1=S7273 2=S7476 3=S6986 4=S6985 5=S6984 6=S7423 7=S6725

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327446934

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 11/06/07 08:54
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	310_001	X	CMARK			11/06/07 08:54	1.0	1 2
002	310_002	X	CCV			11/06/07 09:30	1.0	3 2
003	310_003	CCV/LCS	QC413921	Soil	131365	11/06/07 10:05	1.0	4 2
004	310_004	CCV/LCS	QC413920	Soil	131365	11/06/07 10:54	1.0	3 2
005	310_005	X	IB			11/06/07 11:48	1.0	2
006	310_006	BLANK	QC413919	Soil	131365	11/06/07 12:37	1.0	2
007	310_007	SAMPLE	198986-031	Soil	131365	11/06/07 13:51	1.0	2
008	310_008	SAMPLE	198986-032	Soil	131365	11/06/07 14:27	1.0	2
009	310_009	SAMPLE	198880-001	Soil	131365	11/06/07 15:03	1.0	2
010	310_010	SAMPLE	198880-002	Soil	131365	11/06/07 15:39	1.0	2
011	310_011	MSS	198903-001	Soil	131365	11/06/07 16:15	1.0	2
012	310_012	MS	QC413922	Soil	131365	11/06/07 16:50	1.0	4 2
013	310_013	MSD	QC413923	Soil	131365	11/06/07 17:26	1.0	4 2
014	310_014	CCV	BTXE			11/06/07 18:02	1.0	3 2
015	310_015	CCV	TVH			11/06/07 18:38	1.0	4 2
016	310_016	X	CCV			11/06/07 19:14	1.0	3 2
017	310_017	X	CCV			11/06/07 19:49	1.0	4 2
018	310_018	X	CMARK			11/06/07 20:25	1.0	1 2
019	310_019	SAMPLE	198903-002	Soil	131365	11/06/07 21:01	1.0	2
020	310_020	SAMPLE	198903-003	Soil	131365	11/06/07 21:37	1.0	2
021	310_021	SAMPLE	198903-006	Soil	131365	11/06/07 22:13	1.0	2
022	310_022	SAMPLE	198986-033	Soil	131365	11/06/07 22:48	1.0	2
023	310_023	SAMPLE	198986-034	Soil	131365	11/06/07 23:24	1.0	2
024	310_024	SAMPLE	198986-035	Soil	131365	11/07/07 00:00	1.0	2
025	310_025	SAMPLE	198986-036	Soil	131365	11/07/07 00:36	1.0	2
026	310_026	SAMPLE	198986-037	Soil	131365	11/07/07 01:12	1.0	2
027	310_027	SAMPLE	198986-076	Soil	131365	11/07/07 01:47	1.0	2
028	310_028	CCV	TVH			11/07/07 02:23	1.0	4 2
029	310_029	X	CCV			11/07/07 02:59	1.0	4 2
030	310_030	X	CMARK			11/07/07 03:35	1.0	1 2
031	310_031	X	IB			11/07/07 04:11	1.0	2
032	310_032	IB	CALIB			11/07/07 04:46	1.0	2
033	310_033	ICAL	BTXE_1			11/07/07 05:22	1.0	5 2
034	310_034	ICAL	MBTXE_2			11/07/07 05:58	1.0	6 2
035	310_035	ICAL	MBTXE_3			11/07/07 06:34	1.0	6 2
036	310_036	ICAL	MBTXE_4			11/07/07 07:10	1.0	6 2
037	310_037	ICAL	MBTXE_5			11/07/07 07:45	1.0	7 2
038	310_038	ICAL	MBTXE_6			11/07/07 08:21	1.0	7 2
039	310_039	ICAL	MBTXE_7			11/07/07 08:57	1.0	7 2
040	310_040	ICAL	MTBE_7			11/07/07 09:33	1.0	8 2
041	310_041	X	IB			11/07/07 10:08	1.0	2
042	310_042	X	ICAL			11/07/07 10:44	1.0	5 2
043	310_043	ICV	MBTXE			11/07/07 12:10	1.0	9 2

Analyst: MJM Date: 11/07/07 Reviewer: LH Date: 11/08/07

Standards used: 1=S7569 2=S7356 3=S7564 4=S7423 5=S7260 6=S7258 7=S7257 8=S6302 9=S7263

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327456953

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 11/13/07 07:53
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	317_001	X	CMARK			11/13/07 07:53	1.0	1 2	
002	317_002	CCV/LCS	QC415163	Soil	131668	11/13/07 08:29	1.0	3 2	
003	317_003	CCV/BS	QC415166	Soil	131668	11/13/07 09:05	1.0	4 2	
004	317_004	BSD	QC415167	Soil	131668	11/13/07 09:40	1.0	4 2	
005	317_005	BLANK	QC415162	Soil	131668	11/13/07 10:48	1.0	2	
006	317_006	SAMPLE	199079-005	Soil	131668	11/13/07 13:00	1.0	2	
007	317_007	SAMPLE	199163-001	Soil	131668	11/13/07 13:36	1.0	2	
008	317_008	SAMPLE	199163-002	Soil	131668	11/13/07 14:12	1.0	2	
009	317_009	SAMPLE	199163-003	Soil	131668	11/13/07 14:47	1.0	2	
010	317_010	MSS	199163-004	Soil	131668	11/13/07 15:23	1.0	2	
011	317_011	SAMPLE	199079-005	Soil	131668	11/13/07 15:59	1.0	2	
012	317_012	CCV	MBTXE			11/13/07 16:54	1.0	4 2	
013	317_013	CCV	TVH			11/13/07 17:29	1.0	3 2	
014	317_014	X	CMARK			11/13/07 18:06	1.0	1 2	
015	317_015	SAMPLE	199163-005	Soil	131668	11/13/07 18:42	1.0	2	
016	317_016	SAMPLE	199163-006	Soil	131668	11/13/07 19:17	1.0	2	
017	317_017	SAMPLE	199134-001	Soil	131668	11/13/07 19:53	25.0	2	
018	317_018	SAMPLE	199134-015	Soil	131668	11/13/07 20:28	50.0	2	
019	317_019	SAMPLE	199134-016	Soil	131668	11/13/07 21:04	100.0	2	
020	317_020	SAMPLE	199134-018	Soil	131668	11/13/07 21:39	50.0	2	8:GAS:6-12=190000
021	317_021	SAMPLE	199134-021	Soil	131668	11/13/07 22:14	25.0	2	
022	317_022	X	MEOHMB			11/13/07 22:49	5.0	2	
023	317_023	SAMPLE	199134-017	Soil	131668	11/13/07 23:25	1.0	2	
024	317_024	SAMPLE	199134-019	Soil	131668	11/14/07 00:01	1.0	2	
025	317_025	SAMPLE	199134-020	Soil	131668	11/14/07 00:37	1.0	2	
026	317_026	X	BTXE			11/14/07 08:03	1.0	4 2	
027	317_027	CCV	TVH			11/14/07 08:39	1.0	3 2	
028	317_028	CCV	BTXE			11/14/07 09:15	1.0	4 2	
029	317_029	MS	QC415164	Soil	131668	11/14/07 09:50	1.0	3 2	
030	317_030	MSD	QC415165	Soil	131668	11/14/07 10:26	1.0	3 2	
031	317_031	SAMPLE	199163-003	Soil	131668	11/14/07 11:02	1.0	2	
032	317_032	MS	QC415164	Soil	131668	11/14/07 11:54	1.0	3 2	
033	317_033	MSD	QC415165	Soil	131668	11/14/07 12:30	1.0	3 2	
034	317_034	CCV	TVH			11/14/07 13:06	1.0	3 2	

Analyst: PDM Date: 11/14/07 Reviewer: _____ Date: _____

Standards used: 1=S7569 2=S7356 3=S7663 4=S7564

: 000029

REPORTING SUMMARY FOR 199163 GCVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
199163-001	GC07	11/13/07 13:36	1.0	+	+	+	
199163-002	GC07	11/13/07 14:12	1.0	+	+	+	
199163-003	GC07	11/13/07 14:47	1.0				
199163-003	GC07	11/14/07 11:02	1.0	+	+	+	
199163-004	GC07	11/13/07 15:23	1.0	+	+	+	
199163-005	GC07	11/13/07 18:42	1.0	+	+	+	
199163-006	GC07	11/13/07 19:17	1.0	+	+	+	
QC415162	GC07	11/13/07 10:48	1.0	+	+	+	
QC415163	GC07	11/13/07 08:29	1.0	+	+	+	
QC415164	GC07	11/14/07 09:50	1.0	+	+	+	
QC415164	GC07	11/14/07 11:54	1.0				
QC415165	GC07	11/14/07 10:26	1.0	+	+	+	
QC415165	GC07	11/14/07 12:30	1.0				
QC415166	GC07	11/13/07 09:05	1.0				
QC415167	GC07	11/13/07 09:40	1.0				

00030

30

PROJECT MeOH Extract Log

Notebook No. BK2246

Continued From Page

DATE	ANALYST	SAMPLE ID / CORE ID / BAR	WEIGHT (g)	MeOH (mL)	COMMENTS
11/7/07	MDM	199025-016 A	5.01	5.0	BJ CR013
		-017	5.00		
		-019			
		-020			
11/08/07	PdM	199013 -001 A	4.97	5.0	BJ CR013
		-002 A	5.05		
		MeOH MB	—		
11/9/07	MDM	MeOH MB.	—	5.0	BJ CR013
		199132-008 COMP	5.03		comp 5A-8A @ 5.0g each
11/2/07	MDM	MeOH MB	—	5.0	BJ CR013
		199134-002 A	4.97		
		-003	5.03		
		-004	4.99		
		-006	5.03		
		-008 A	4.97		
		-009	5.00		
		-010	4.99		
		-012	5.02		
		-015	5.01		
		-016	5.01		
		-018	4.98		
		199132-010 COMP	5.01		comp 1A-4A @ 5g each
		199134-001 A	4.97		
		-021			
MDM 11/13/07		MeOH MB	—	5.0	BJ CR013
		199160-001 A	4.96		
		-003	4.97		

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
[signature]	11/7/07		

Project TVH/BTXE SOIL PREP BK2583

Continued from Page

SAMPLE ID / CORE ID / DAF	WEIGHTS	COMP (Y/N)	Na2SO4 (Y/N)	COMMENTS
1989140-009 COMP	1.03	YES	NO	MDM 11/12/07, Comp 1A-4A @ 20.0 g per 5L M.
1989140-010 ↓	1.05	↓		5A-8A ↓ ↓
199134-005 A	1.02	NO		
-007	1.02			
-011	1.03			
-013	↓			
MS: ↓				
MSD: ↓	0.99			
-014	1.00			
-017 ↓	1.01			
1988899-002 A	0.99	↓		
199079-005 COMP	0.99	YES		11/12/07 MDM
MS ↓	1.01			Comp 1B-5B3 @ 5.0g
MSD ↓ ↓	1.02	↓		↓
199134-019 ↑	0.99	NO		
-020 ↓	1.01			
199188-001 B	5.47			
-002	5.89			
-003 ↓	5.80			
199133-001 A	1.01 0.98			
-002 ↑	1.02 1.01			
MS: ↓	0.9 1.02			
MSD: ↓	0.98			
-003	1.02			
-004	1.03			
-005	0.99			
-006	0.96			
-007	0.98			
-008	0.99			
-009	0.98			
-010 ↓	1.01			
199138-001 C	5.48	NO	NO	PdM 11/13/07
-002	5.83			
-003 ↓	5.14	↓		
199160-002 A	1.03	NO	NO	MDM 11/13/07
-004 ↓	0.98	↓	↓	

Continued on Page

Read and Understood By

Signed — Date — Signed — Date

11/13/07

Project TVH/BTXE SOIL PREP BK2583

Continued from Page ~

SAMPLE ID/CORE ID/JAR				WEIGHT (GS)		COMP (Y)	NaHSO4 (Y)	COMMENTS
199160	-005	A	MJM 11/13/07	1.03	1.01	NO	NO	MSM 11/13/07
↓	-006	↓		0.98	0.99			
↓	-007	↓		1.00				
199163	-001	C	MJM 11/13/07	0.99	5.52			
	-002	↓	↓	1.00	5.19			
	-003	↓		4.84				
	-004	F		4.80				
MS:	↓	G		4.88				
MSD:	↓	H		5.14				
	-005	C		5.41				
↓	-006	C		4.98				
199153	-015	B		5.38				
↓	-021	C		4.20				
↓	-030	B		5.43				
199173	-001	A		0.99				,alias of 199094-2A
	-002			1.04				-3A
	-003			1.00				-4A
	-004			1.03				-5A
MS:	↓			0.98				↓
MSD:	↓			1.00				
	-005		MJM 11/13/07 See MeOH Extract.	1.03				-6A
	-006			1.03				-12A
	-007			1.01				-18A
↓	-008	↓		1.00				-19A
199079	-005	COMP		1.04		YES		COMP 1B-4B @ 5.0g (data for 2nd Run)
199133	-001	A		1.00		NO		
MS:	↓			0.98				
MSD:	↓			1.00				
	-011			0.99				
	-012			1.02				
	-013			0.98				
↓	-014	↓		1.02				
199211	-001	A		1.07		↓	↓	↓
199163	-003	D		5.23		NO	NO	PdM 11/14/07
MS	199163-	004	L	4.59				
MSD	↓		M	5.45		↓	↓	↓

Continued on Page

11/13/07

Signed — Date

Read and Understood By

Signed — Date

TPH-EXTRACTABLES DATA

SOIL

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/12/07
Batch#:	131630	Analyzed:	11/13/07
Sampled:	11/12/07		

Field ID:	1065EX341[7.0]	Moisture:	18%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	199163-001	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	0.25 J	1.2	0.20
Fuel Oil C24-C36	3.4 J	6.1	1.3

Surrogate	%REC	Limits
Hexacosane	75	65-135

Field ID:	DUP111207	Moisture:	23%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	199163-002	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.3	0.21
Fuel Oil C24-C36	1.7 J	6.5	1.4

Surrogate	%REC	Limits
Hexacosane	74	65-135

Field ID:	1065EX342[5.0]	Moisture:	9%
Type:	SAMPLE	Diln Fac:	5.000
Lab ID:	199163-003	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	35 Y	5.5	0.88
Fuel Oil C24-C36	360	27	6.1

Surrogate	%REC	Limits
Hexacosane	91	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/12/07
Batch#:	131630	Analyzed:	11/13/07
Sampled:	11/12/07		

Field ID:	1065EX343[5.0]	Moisture:	11%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	199163-004	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	8.1 Y	1.1	0.18
Fuel Oil C24-C36	60	5.6	1.2

Surrogate	%REC	Limits
Hexacosane	71	65-135

Field ID:	1065EX344[5.0]	Moisture:	13%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	199163-005	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	6.9 Y	1.1	0.19
Fuel Oil C24-C36	36	5.7	1.3

Surrogate	%REC	Limits
Hexacosane	78	65-135

Field ID:	1065EX345[5.0]	Moisture:	12%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	199163-006	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	4.3 Y	1.1	0.18
Fuel Oil C24-C36	25	5.7	1.3

Surrogate	%REC	Limits
Hexacosane	82	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/12/07
Batch#:	131630	Analyzed:	11/13/07
Sampled:	11/12/07		

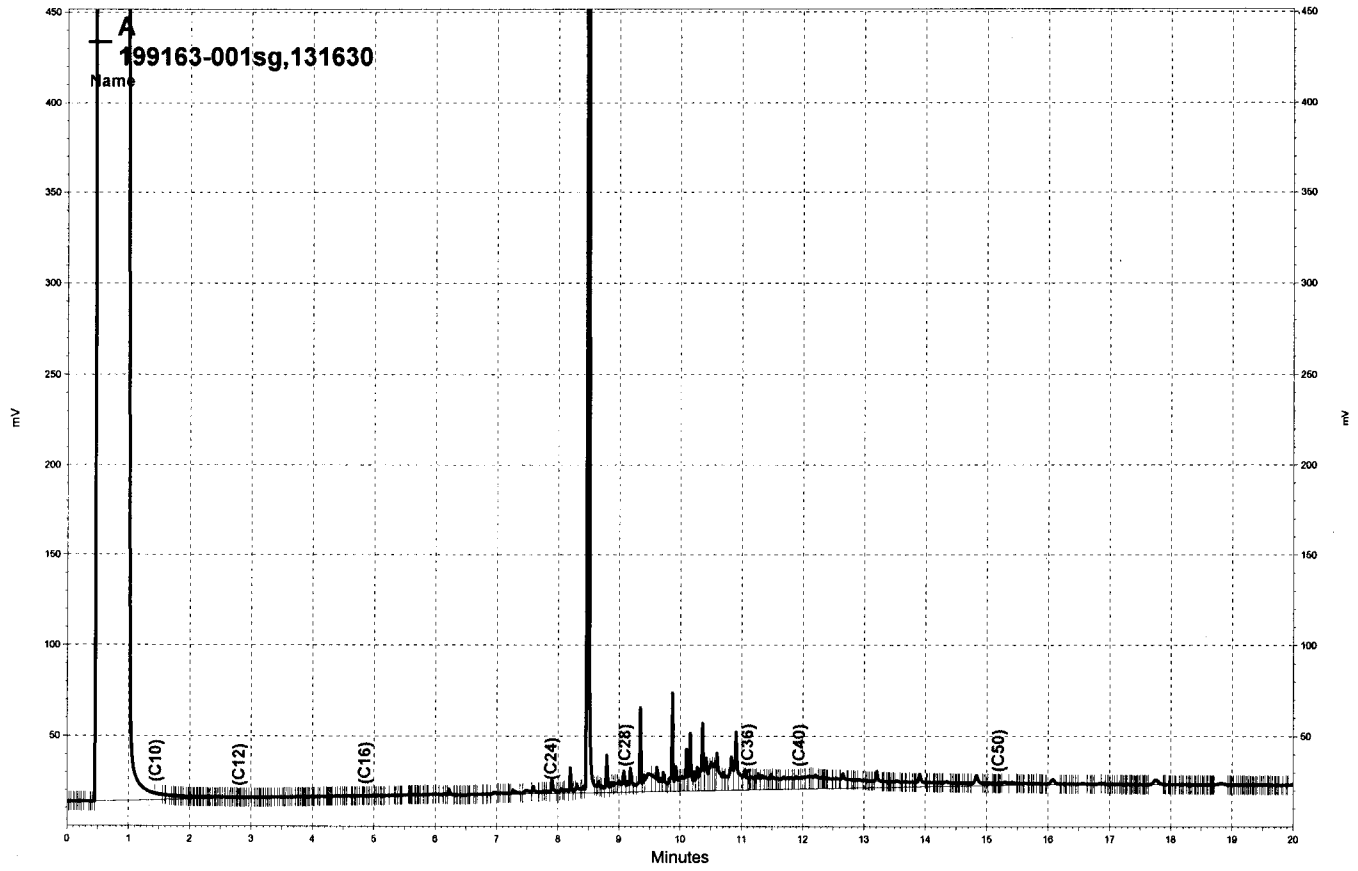
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC415000	Cleanup Method:	EPA 3630C
Basis:	as received		

Analyte	Result	RL	MDL
Diesel C12-C24	ND	0.99	0.16
Fuel Oil C24-C36	ND	5.0	1.1

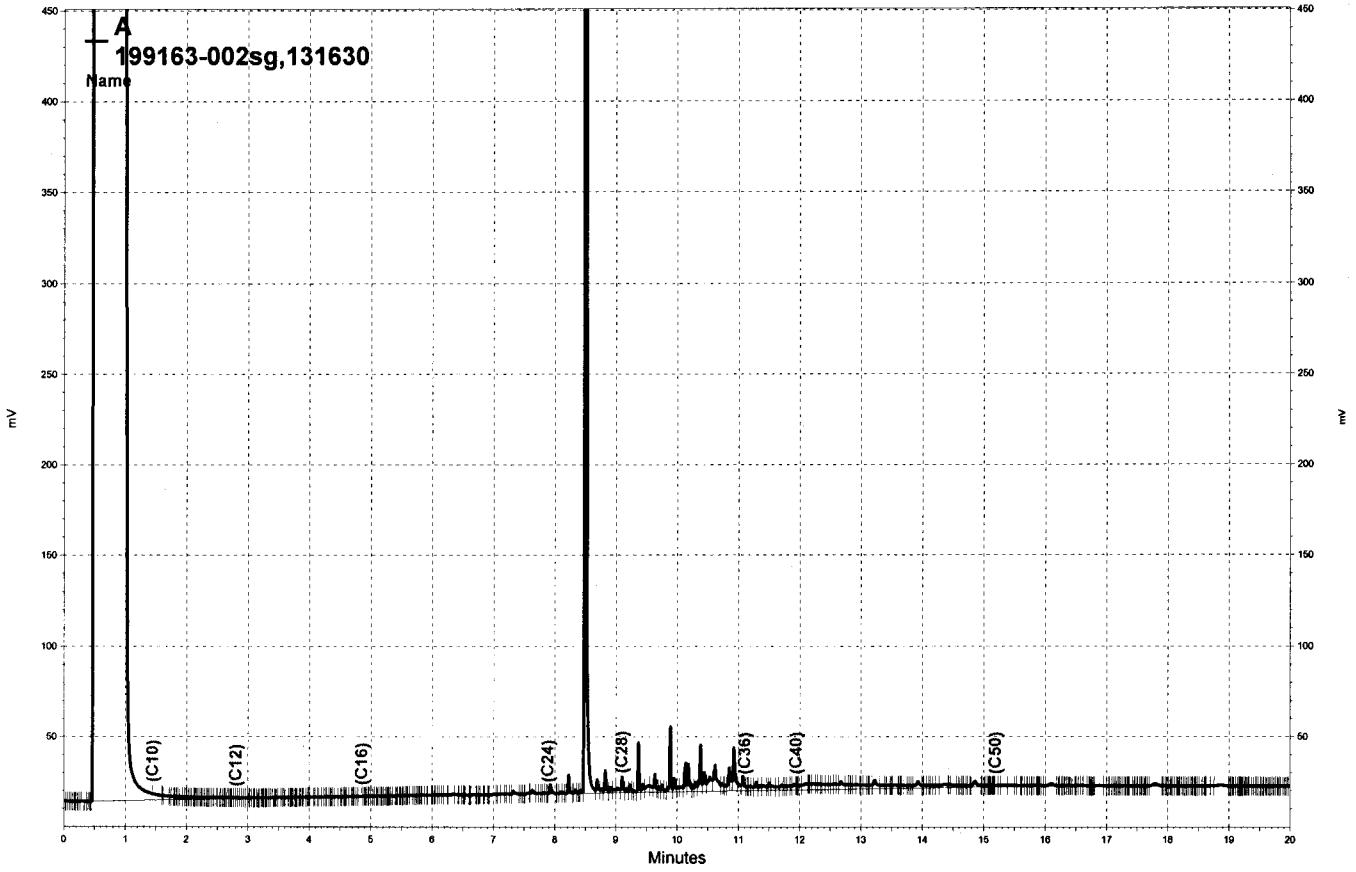
Surrogate	%REC	Limits
Hexacosane	81	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

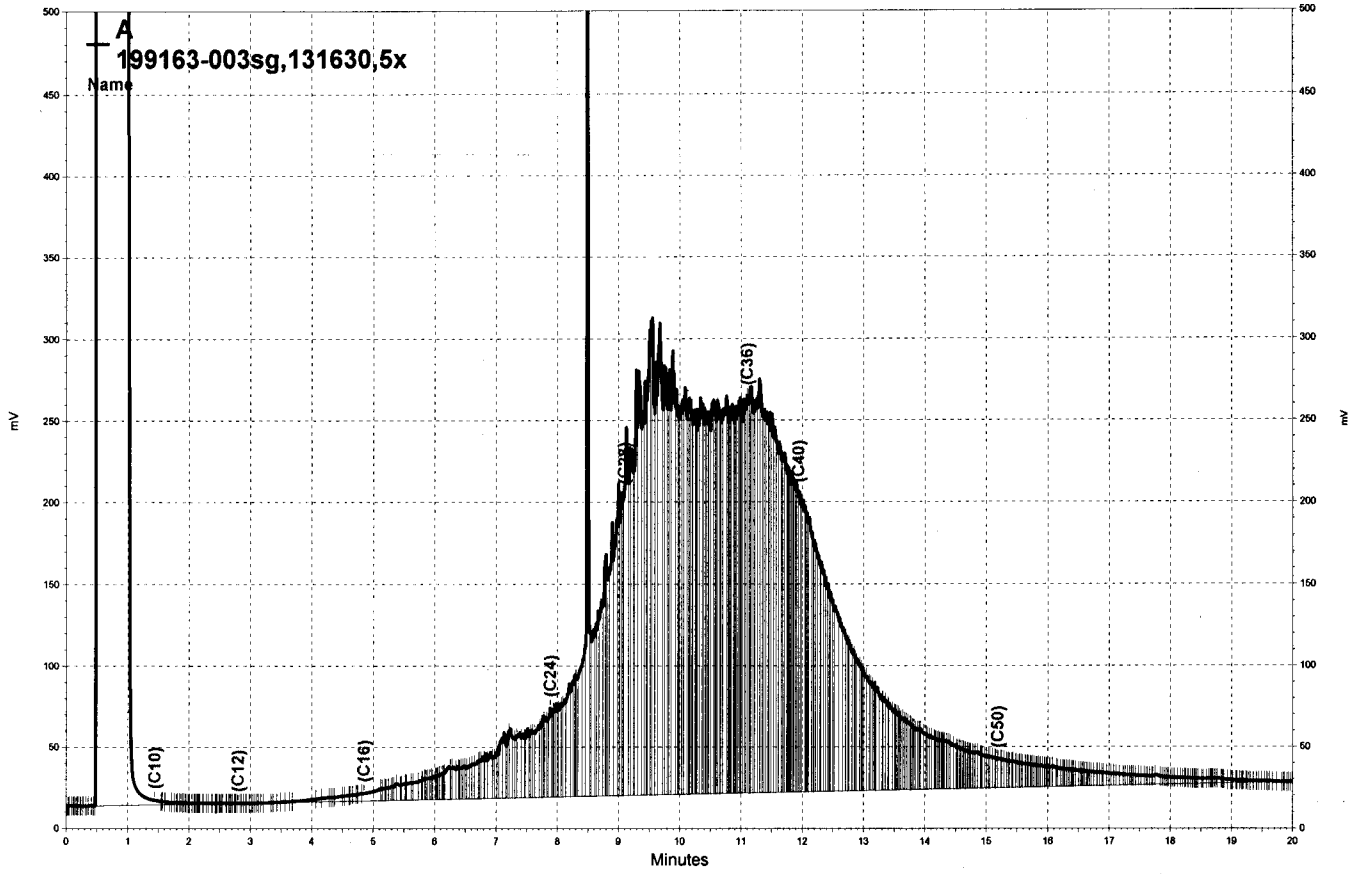
2.2



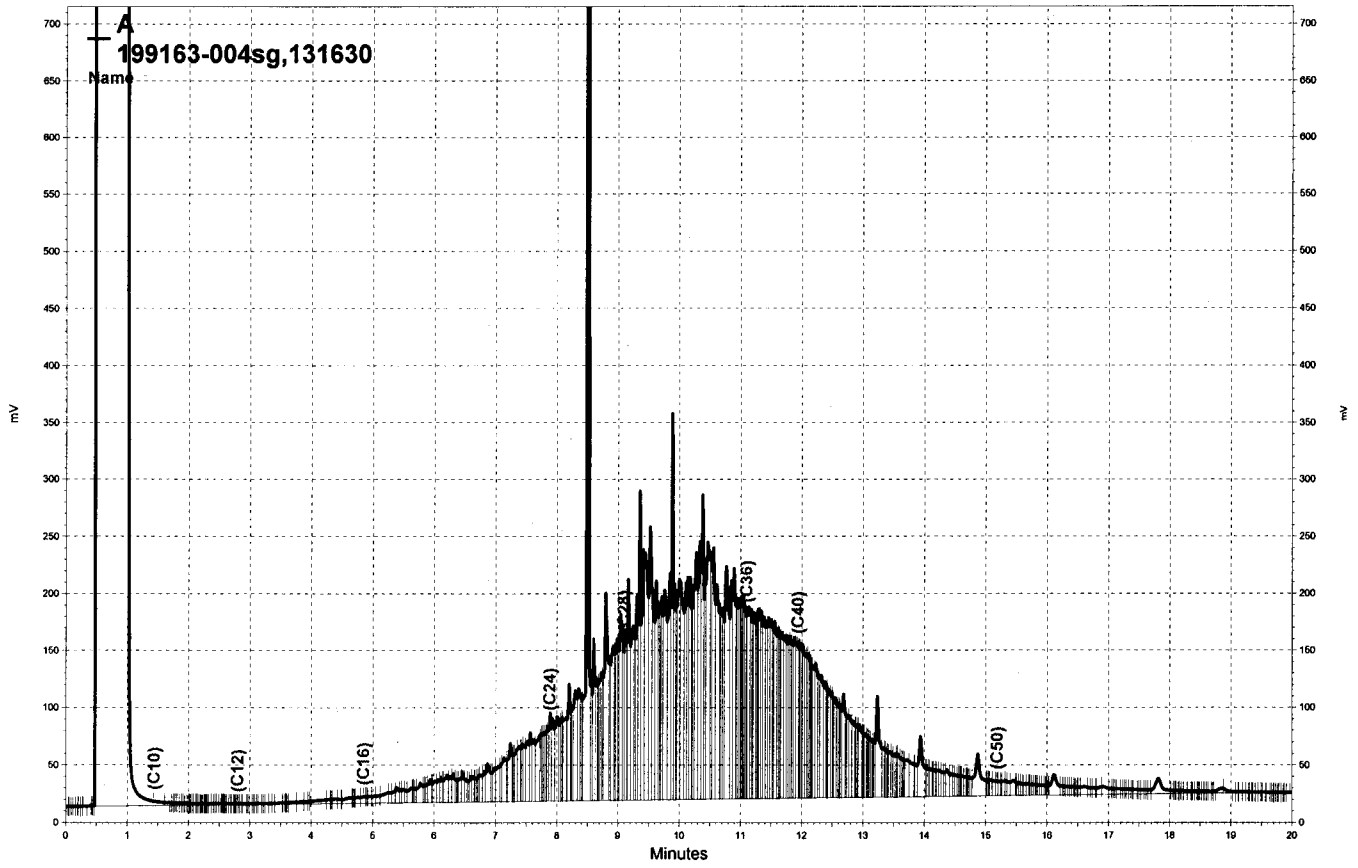
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\317a012, A



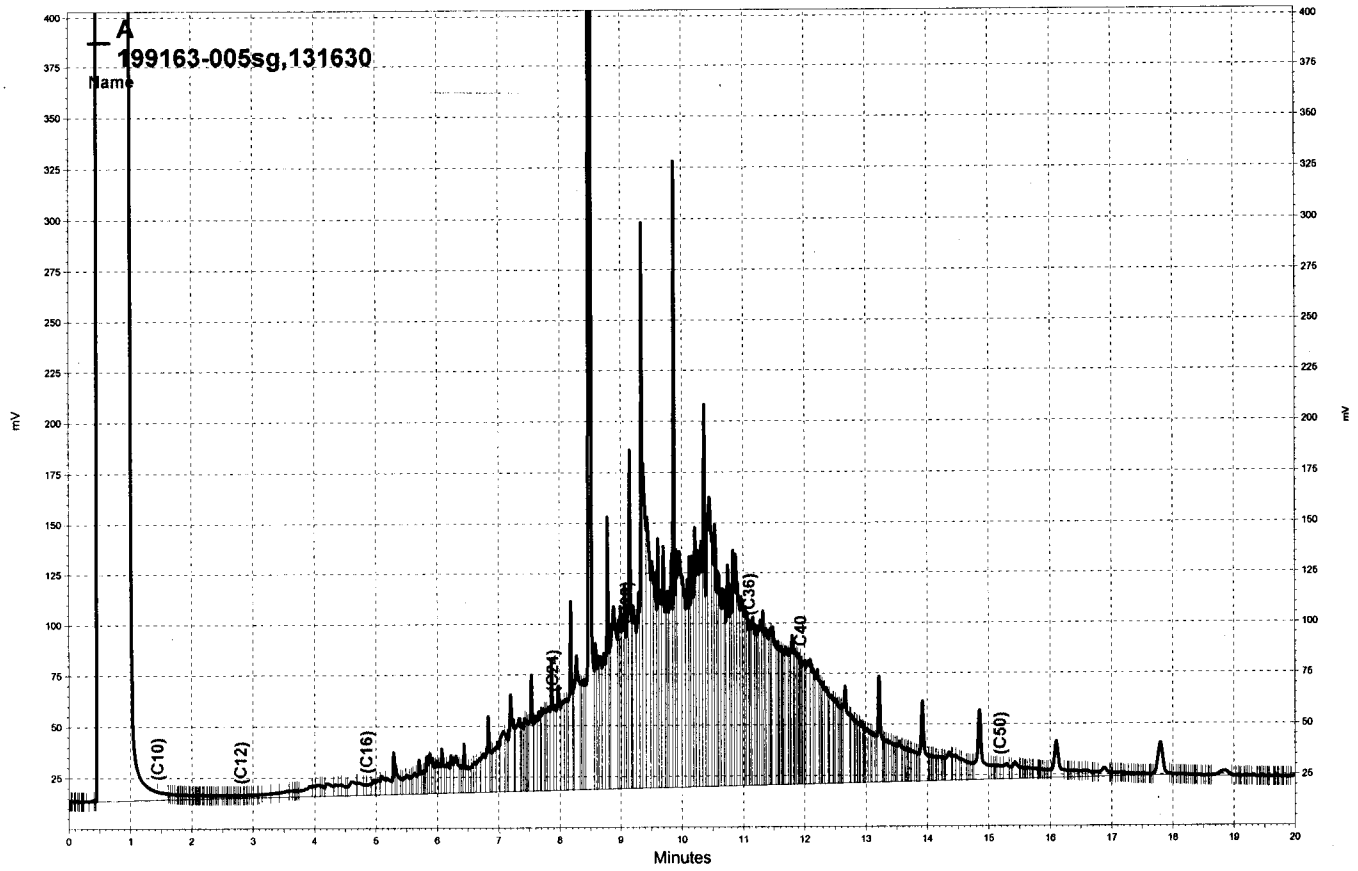
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\317a013, A



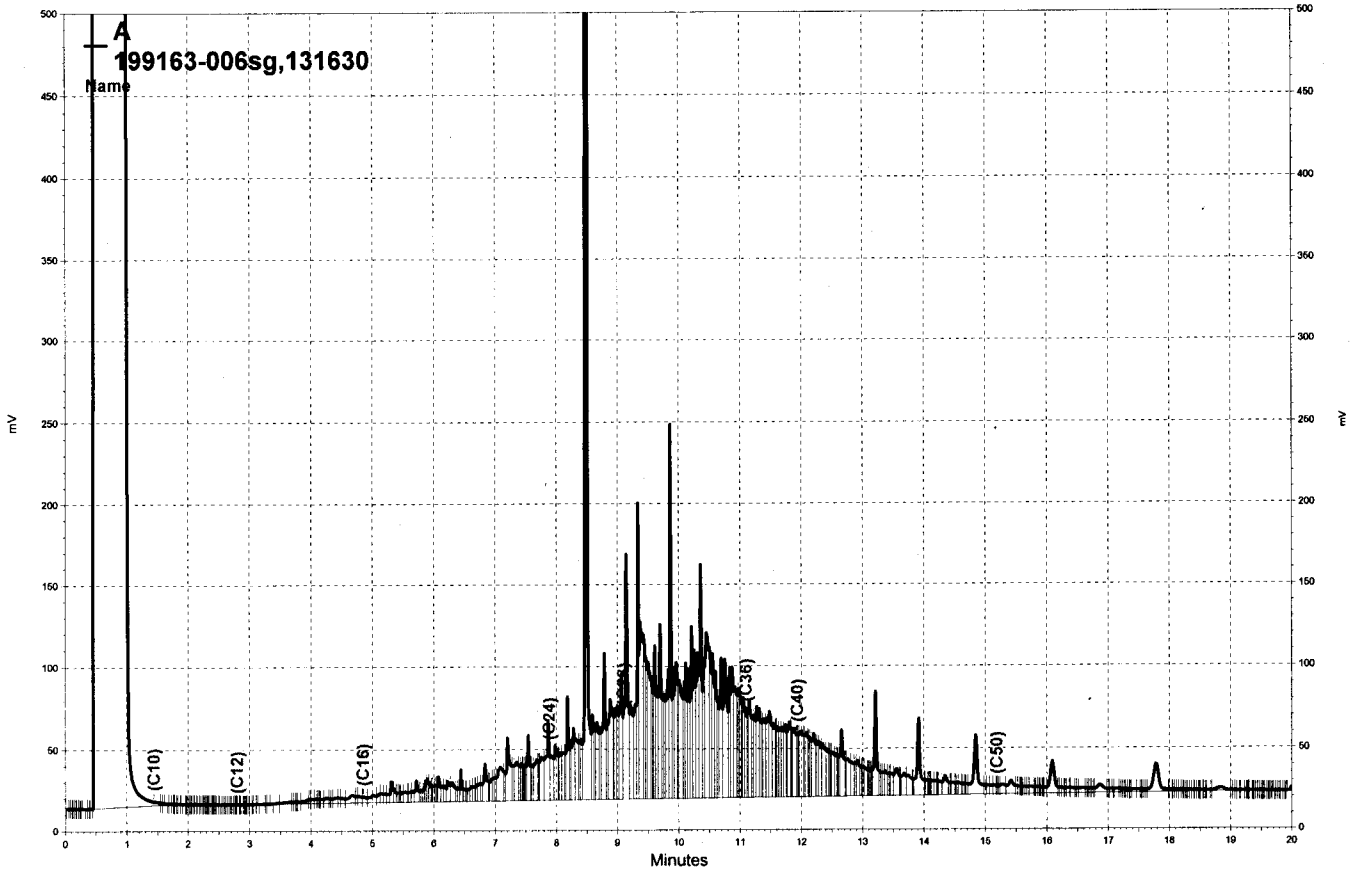
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\317a010, A



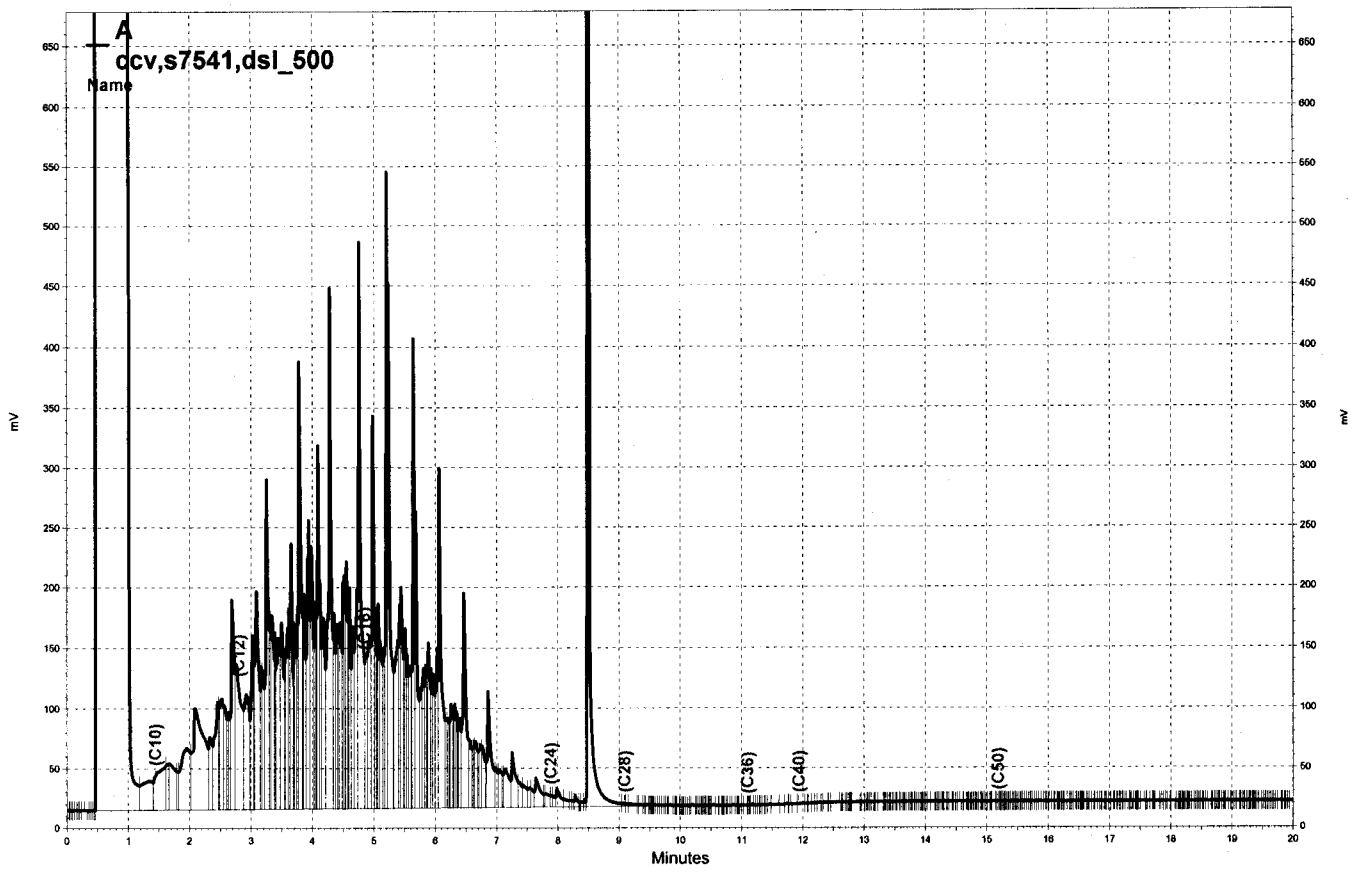
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\317a007, A



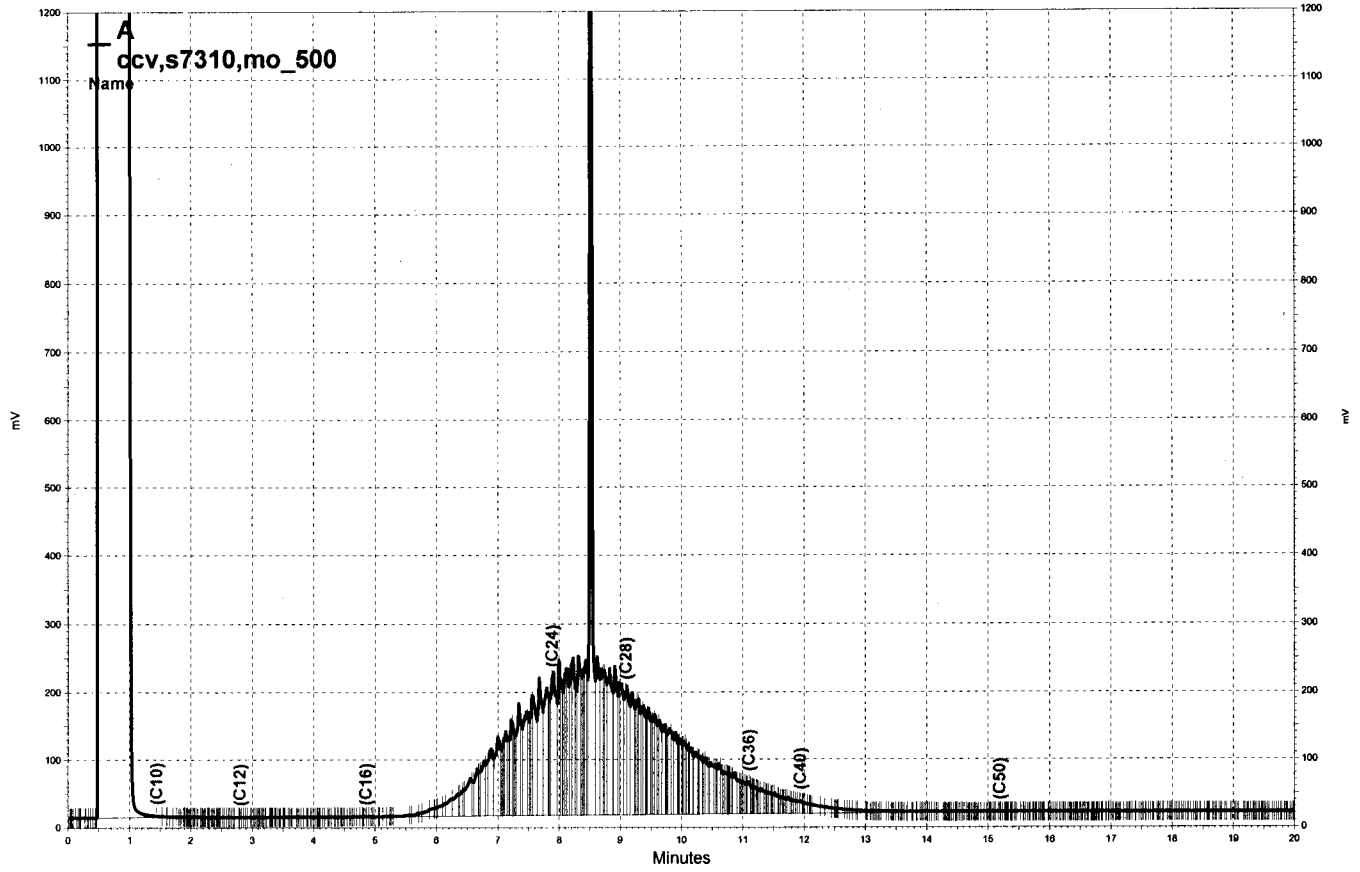
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\317a015, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\317a014, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\317a004, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\317a005, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC415001	Batch#:	131630
Matrix:	Soil	Prepared:	11/12/07
Units:	mg/Kg	Analyzed:	11/13/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.92	42.99	86	65-135

Surrogate	%REC	Limits
Hexacosane	86	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX343[5.0]	Batch#:	131630
MSS Lab ID:	199163-004	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/12/07
Basis:	dry	Analyzed:	11/13/07
Diln Fac:	1.000		

Type:	MS	Moisture:	11%
Lab ID:	QC415002	Cleanup Method:	EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	8.051	55.97	47.26	70	65-135

Surrogate	%REC	Limits
Hexacosane	69	65-135

Type:	MSD	Moisture:	11%
Lab ID:	QC415003	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	55.92	45.57	67	65-135	4	35

Surrogate	%REC	Limits
Hexacosane	79	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177330472002
Units : mg/L

Name : MO
Date : 17-AUG-2007 18:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	229a015	177330472015	MO_50	17-AUG-2007 18:23	S6848
L2	229a016	177330472016	MO_250	17-AUG-2007 18:51	S6849
L3	229a017	177330472017	MO_500	17-AUG-2007 19:18	S6850
L4	229a018	177330472018	MO_1000	17-AUG-2007 19:45	S6851
L5	229a019	177330472019	MO_5000	17-AUG-2007 20:13	S6846
L6	229a020	177330472020	MO_7500	17-AUG-2007 20:40	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	50681	53699	55379	55614	54069	53736	AVRG		1.86E-5		53863	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-6	250.0	0	500.0	3	1000	3	5000	0	7500	0

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177377811001
Units : mg/L

Name : hex 5pt.
Date : 19-SEP-2007 19:51
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	262a024	177377811024	HEX_5	19-SEP-2007 19:51	S7036
L2	262a025	177377811025	HEX_10	19-SEP-2007 20:18	S7037
L3	262a026	177377811026	HEX_25	19-SEP-2007 20:46	S7038
L4	262a027	177377811027	HEX_50	19-SEP-2007 21:13	S7039
L5	262a028	177377811028	HEX_100	19-SEP-2007 21:41	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	90416	88456	87718	89582	89186	AVRG		1.12E-5		89072	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	-2	50.00	1	100.0	0

Analyst: ZA Date: 09/19/07 Reviewer: LH Date: 09/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177441350001
Units : mg/L

Name : dsl 6pt.
Date : 02-NOV-2007 19:16
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	306a008	177441350008	DSL_10	02-NOV-2007 19:16	S6612
L2	306a009	177441350009	DSL_100	02-NOV-2007 19:44	S6613
L3	306a010	177441350010	DSL_500	02-NOV-2007 20:11	S6614
L4	306a011	177441350011	DSL_1000	02-NOV-2007 20:39	S6615
L5	306a012	177441350012	DSL_5000	02-NOV-2007 21:06	S6611
L6	306a013	177441350013	DSL_7500	02-NOV-2007 21:34	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	68436	66248	61702	61110	73711	65026	AVRG		1.51E-5		66039	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	4	100.0	0	500.0	-7	1000	-7	5000	12	7500	-2

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199163 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 177441350001

Name : dsl 6pt.
Cal Date : 02-NOV-2007

ICV 177441350015 (306a015 02-NOV-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	66039	66510	500.0	503.6	mg/L	1	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 177456896004 File : 317a004 Time : 13-NOV-2007 08:18
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	68445	500.0	518.2	mg/L	4	15	
Hexacosane	177377811001	19-SEP-2007	89072	86606	50.00	48.62	mg/L	-3	15	

Analyst: JDG Date: 11/14/07 Reviewer: LH Date: 11/14/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177456896005 File : 317a005 Time : 13-NOV-2007 08:45
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	54428	500.0	505.2	mg/L	1	15	
Hexacosane	177377811001	19-SEP-2007	89072	89526	50.00	50.26	mg/L	1	15	

Analyst: JDG Date: 11/14/07 Reviewer: LH Date: 11/14/07

177456896005

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
Seqnum : 177456896017 File : 317a017 Time : 13-NOV-2007 14:15
Standards: S7540

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	65931	250.0	249.6	mg/L	0	15	
Hexacosane	177377811001	19-SEP-2007	89072	89578	50.00	50.28	mg/L	1	15	

Analyst: JDG Date: 11/14/07 Reviewer: LH Date: 11/14/07

177456896017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177456896018 File : 317a018 Time : 13-NOV-2007 14:42
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	56156	500.0	521.3	mg/L	4	15	
Hexacosane	177377811001	19-SEP-2007	89072	92994	50.00	52.20	mg/L	4	15	

Analyst: JDG Date: 11/14/07 Reviewer: LH Date: 11/14/07

177456896018

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177330472

Instrument : GC17A
Method : EPA 8015B

Begun : 08/17/07 11:52
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	229a001	X	PRIMER			08/17/07 11:52	1.0	
002	229a002	X	IB			08/17/07 12:20	1.0	
003	229a003	CMARKER	C10-C50			08/17/07 12:47	1.0	1
004	229a004	IB	CALIB			08/17/07 13:14	1.0	
005	229a005	ICAL	DSL_10			08/17/07 13:42	1.0	2
006	229a006	ICAL	DSL_100			08/17/07 14:09	1.0	3
007	229a007	ICAL	DSL_500			08/17/07 14:37	1.0	4
008	229a008	ICAL	DSL_1000			08/17/07 15:04	1.0	5
009	229a009	ICAL	DSL_5000			08/17/07 15:31	1.0	6
010	229a010	ICAL	DSL_7500			08/17/07 15:59	1.0	7
011	229a011	IB	CALIB			08/17/07 16:26	1.0	
012	229a012	ICV	DSL_500			08/17/07 16:54	1.0	8
013	229a013	X	ICV			08/17/07 17:28	1.0	8
014	229a014	IB	CALIB			08/17/07 17:56	1.0	
015	229a015	ICAL	MO_50			08/17/07 18:23	1.0	9
016	229a016	ICAL	MO_250			08/17/07 18:51	1.0	10
017	229a017	ICAL	MO_500			08/17/07 19:18	1.0	11
018	229a018	ICAL	MO_1000			08/17/07 19:45	1.0	12
019	229a019	ICAL	MO_5000			08/17/07 20:13	1.0	13
020	229a020	ICAL	MO_7500			08/17/07 20:40	1.0	14
021	229a021	IB	CALIB			08/17/07 21:08	1.0	

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/22/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	262a001	X	PRIMER				09/19/07 08:51	1.0		
002	262a002	X	IB				09/19/07 09:18	1.0		
003	262a003	XCMARKER	C10-C50				09/19/07 09:46	1.0	1	
005	262a005	X	IB				09/19/07 11:09	1.0		
006	262a006	XCMARKER	C10-C50				09/19/07 11:36	1.0	1	
007	262a007	CCV	DSL_500				09/19/07 12:04	1.0	2	
008	262a008	CCV	MO_500				09/19/07 12:31	1.0	3	
009	262a009	CCV	OTP_50				09/19/07 12:58	1.0	4	
010	262a010	SAMPLE	197670-001		Soil	129574	09/19/07 13:26	1.0		
011	262a011	SAMPLE	197670-002		Soil	129574	09/19/07 13:54	1.0		
012	262a012	SAMPLE	197670-003		Soil	129574	09/19/07 14:21	1.0		
013	262a013	SAMPLE	197670-004		Soil	129574	09/19/07 14:48	1.0		
014	262a014	SAMPLE	197670-005		Soil	129574	09/19/07 15:16	1.0		
015	262a015	SAMPLE	197670-006		Soil	129574	09/19/07 15:44	1.0		
016	262a016	SAMPLE	197670-007		Soil	129574	09/19/07 16:11	1.0		
017	262a017	SAMPLE	197670-008		Soil	129574	09/19/07 16:38	1.0		
018	262a018	SAMPLE	197670-009		Soil	129574	09/19/07 17:06	1.0		
019	262a019	SAMPLE	197670-010		Soil	129574	09/19/07 17:33	1.0		
020	262a020	CCV	DSL_1000				09/19/07 18:00	1.0	5	
021	262a021	CCV	MO_500				09/19/07 18:28	1.0	3	
022	262a022	CCV	DSL_1000				09/19/07 18:55	1.0	5	
023	262a023	IB	CALIB				09/19/07 19:23	1.0		
024	262a024	ICAL	HEX_5				09/19/07 19:51	1.0	6	
025	262a025	ICAL	HEX_10				09/19/07 20:18	1.0	7	
026	262a026	ICAL	HEX_25				09/19/07 20:46	1.0	8	
027	262a027	ICAL	HEX_50				09/19/07 21:13	1.0	9	
028	262a028	ICAL	HEX_100				09/19/07 21:41	1.0	10	
029	262a029	X	IB				09/19/07 22:08	1.0		
030	262a030	X	CMARKER				09/19/07 22:36	1.0	1	
031	262a031	CCV	DSL_250				09/19/07 23:03	1.0	11	
032	262a032	CCV	MO_500				09/19/07 23:31	1.0	3	
033	262a033	X	IB				09/20/07 00:02	1.0		
034	262a034	X	TANKCHK				09/20/07 00:29	1.0		
035	262a035	X	TANKCHK				09/20/07 00:56	1.0		
036	262a036	SAMPLE	197624-001		Water	129615	09/20/07 01:24	1.0		
037	262a037	XCMARKER	C10-C50				09/20/07 01:51	1.0	1	
038	262a038	CCV	DSL_500				09/20/07 02:18	1.0	2	
039	262a039	CCV	MO_500				09/20/07 02:46	1.0	3	
040	262a040	X	CCV				09/20/07 03:13	1.0	2	
041	262a041	X	CCV				09/20/07 03:41	1.0	3	
042	262a042	X	IB				09/20/07 08:18	1.0		
043	262a043	X	IB				09/20/07 08:45	1.0		
044	262a044	SAMPLE	197668-024	S	Soil	129593	09/20/07 09:13	10.0		
045	262a045	LCS	QC406929	S	Soil	129661	09/20/07 09:40	1.0		
046	262a046	BLANK	QC406928	S	Soil	129661	09/20/07 10:08	1.0		
047	262a047	SAMPLE	197557-001	S	Soil	129661	09/20/07 10:36	1.0		2:BUNKC:12-40=6200
048	262a048	SAMPLE	197557-019	S	Soil	129661	09/20/07 11:07	1.0		
049	262a049	X	IB				09/20/07 11:34	1.0		
050	262a050	SAMPLE	197557-015	S	Soil	129661	09/20/07 12:02	1.0		
051	262a051	CCV	DSL_1000				09/20/07 12:29	1.0	5	
052	262a052	X					09/20/07 12:57	1.0	3	
053	262a053	CCV	MO_500				09/20/07 13:26	1.0	3	

00057

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
054	262a054	SAMPLE	197557-017	S	Soil	129532	09/20/07 14:25	1.0		
055	262a055	CCV	DSL_250				09/20/07 14:55	1.0	11	
056	262a056	CCV	MO_500				09/20/07 15:23	1.0	3	
057	262a057	CCV	DSL_250				09/20/07 15:53	1.0	11	
058	262a058	X	IB				09/21/07 01:38	1.0		
059	262a059	X	CMARKER				09/21/07 02:06	1.0	1	
060	262a060	IB	CALIB				09/21/07 02:33	1.0		
061	262a061	ICAL	DSL_10				09/21/07 03:01	1.0	12	
062	262a062	ICAL	DSL_100				09/21/07 03:28	1.0	13	
063	262a063	ICAL	DSL_500				09/21/07 03:55	1.0	14	
064	262a064	ICAL	DSL_1000				09/21/07 04:23	1.0	15	
065	262a065	ICAL	DSL_5000				09/21/07 04:51	1.0	16	
066	262a066	ICAL	DSL_7500				09/21/07 05:18	1.0	17	
067	262a067	IB	CALIB				09/21/07 05:46	1.0		
068	262a068	ICV	DSL_500				09/21/07 06:13	1.0	18	
069	262a069	X	ICV				09/21/07 06:41	1.0	19	

Standards used: 1=S6952 2=S6808 3=S6790 4=S6922 5=S6809 6=S7036 7=S7037 8=S7038 9=S7039 10=S7040 11=S6807 12=S6612 13=S6613 14=S6614 15=S6615 16=S6611 17=S6616 18=S6617 19=S56617

: 00059

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177441350

Instrument : GC17A
Method : EPA 8015B

Begun : 11/02/07 11:50
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	306a001	X	IB			11/02/07 11:50	1.0		
002	306a002	X	IB			11/02/07 12:17	1.0		
003	306a003	CMARKER	C8-C50			11/02/07 12:45	1.0	1	
004	306a004	CCV	DSL_500			11/02/07 13:12	1.0	2	
005	306a005	CCV	MO_500			11/02/07 13:40	1.0	3	
006	306a006	CCV	DSL_500			11/02/07 14:58	1.0	2	
007	306a007	IB	CALIB			11/02/07 17:33	1.0		
008	306a008	ICAL	DSL_10			11/02/07 19:16	1.0	4	
009	306a009	ICAL	DSL_100			11/02/07 19:44	1.0	5	
010	306a010	ICAL	DSL_500			11/02/07 20:11	1.0	6	
011	306a011	ICAL	DSL_1000			11/02/07 20:39	1.0	7	
012	306a012	ICAL	DSL_5000			11/02/07 21:06	1.0	8	
013	306a013	ICAL	DSL_7500			11/02/07 21:34	1.0	9	
014	306a014	IB	CALIB			11/02/07 22:01	1.0		
015	306a015	ICV	DSL_500			11/02/07 22:29	1.0	10	
016	306a016	X	ICV			11/02/07 22:56	1.0	10	
017	306a017	IB	CALIB			11/02/07 23:24	1.0		

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Standards used: 1=S6952 2=S7541 3=S7310 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617

: 00059

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177456896

Instrument : GC17A
Method : EPA 8015B

Begun : 11/13/07 06:56
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	317a001	X	PRIMER				11/13/07 06:56	1.0		
002	317a002	X	IB				11/13/07 07:23	1.0		
003	317a003	X	CMARKER				11/13/07 07:50	1.0	1	
004	317a004	CCV	DSL_500				11/13/07 08:18	1.0	2	
005	317a005	CCV	MO_500				11/13/07 08:45	1.0	3	
006	317a006	LCS	QC415001	S	Soil	131630	11/13/07 09:13	1.0		
007	317a007	MSS	199163-004	S	Soil	131630	11/13/07 09:41	1.0		
008	317a008	MS	QC415002	S	Soil	131630	11/13/07 10:08	1.0		
009	317a009	MSD	QC415003	S	Soil	131630	11/13/07 10:36	1.0		
010	317a010	SAMPLE	199163-003	S	Soil	131630	11/13/07 11:04	5.0		
011	317a011	X	IB				11/13/07 11:31	1.0		
012	317a012	SAMPLE	199163-001	S	Soil	131630	11/13/07 11:59	1.0		
013	317a013	SAMPLE	199163-002	S	Soil	131630	11/13/07 12:26	1.0		
014	317a014	SAMPLE	199163-006	S	Soil	131630	11/13/07 12:53	1.0		
015	317a015	SAMPLE	199163-005	S	Soil	131630	11/13/07 13:21	1.0		
016	317a016	BLANK	QC415000	S	Soil	131630	11/13/07 13:48	1.0		
017	317a017	CCV	DSL_250				11/13/07 14:15	1.0	4	
018	317a018	CCV	MO_500				11/13/07 14:42	1.0	3	
019	317a019	SAMPLE	199129-008	S	Water	131581	11/13/07 15:11	1.0		
020	317a020	SAMPLE	199129-009	S	Water	131581	11/13/07 15:38	1.0		
021	317a021	SAMPLE	199129-007	S	Water	131581	11/13/07 16:06	1.0		
022	317a022	SAMPLE	199129-005	S	Water	131581	11/13/07 16:33	1.0		
023	317a023	SAMPLE	199089-012	S	Soil	131594	11/13/07 17:01	1.0		
024	317a024	X	IB				11/13/07 17:28	1.0		
025	317a025	X	TANK CHECK				11/13/07 17:56	1.0		
026	317a026	SAMPLE	199069-002	S	Water	131615	11/13/07 18:23	1.0		
027	317a027	BS	QC414937	S	Water	131615	11/13/07 18:50	1.0		
028	317a028	BSD	QC414938	S	Water	131615	11/13/07 19:18	1.0		
029	317a029	SAMPLE	199069-001	S	Water	131615	11/13/07 19:45	1.0		
030	317a030	SAMPLE	199069-003	S	Water	131615	11/13/07 20:12	1.0		
031	317a031	X	CMARKER				11/13/07 20:40	1.0	5	
032	317a032	CCV	DSL_500				11/13/07 21:07	1.0	2	
033	317a033	CCV	MO_500				11/13/07 21:35	1.0	3	
034	317a034	X	CCV				11/13/07 22:02	1.0	2	
035	317a035	X	CCV				11/13/07 22:29	1.0	3	
036	317a036	LCS	QC415066	S	Soil	131647	11/14/07 01:21	1.0		
037	317a037	BLANK	QC415065	S	Soil	131647	11/14/07 01:48	1.0		
038	317a038	SAMPLE	199173-004	S	Soil	131647	11/14/07 02:15	20.0		
039	317a039	SAMPLE	199173-003	S	Soil	131647	11/14/07 02:42	10.0		
040	317a040	SAMPLE	199173-002	S	Soil	131647	11/14/07 03:09	1.0		2:BUNKC:12-50=11000
041	317a041	X	IB				11/14/07 03:37	1.0		
042	317a042	SAMPLE	199173-001	S	Soil	131647	11/14/07 04:05	1.0		
043	317a043	SAMPLE	199173-006	S	Soil	131647	11/14/07 04:32	1.0		2:BUNKC:12-40=7200
044	317a044	SAMPLE	199173-007	S	Soil	131647	11/14/07 05:00	1.0		3:BUNKC:12-40=15000
045	317a045	SAMPLE	199173-005	S	Soil	131647	11/14/07 05:27	1.0		19:BUNKC:12-40=250000
046	317a046	X	IB				11/14/07 05:55	1.0		
047	317a047	SAMPLE	199168-009		Soil	131678	11/14/07 06:22	1.0		
048	317a048	CCV	DSL_1000				11/14/07 06:50	1.0	6	
049	317a049	CCV	MO_500				11/14/07 07:17	1.0	3	
050	317a050	BLANK	QC415065		Soil	131647	11/14/07 07:46	1.0		
051	317a051	MSS	199153-005		Soil	131647	11/14/07 08:13	1.0		2:BUNKC:12-40=6200
052	317a052	MS	QC415067		Soil	131647	11/14/07 08:41	1.0		2:BUNKC:12-40=6000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177456896

Instrument : GC17A
Method : EPA 8015B

Begun : 11/13/07 06:56
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	317a053	MSD	QC415068		Soil	131647	11/14/07 09:09	1.0		2:BUNKC:12-40=6200
054	317a054	SAMPLE	199173-008	S	Soil	131647	11/14/07 09:36	1.0		3:BUNKC:12-40=18000
055	317a055	X	IB				11/14/07 10:04	1.0		
056	317a056	SAMPLE	199153-006		Soil	131647	11/14/07 10:31	1.0		
057	317a057	SAMPLE	199182-014		Soil	131630	11/14/07 10:59	10.0		
058	317a058	X	IB				11/14/07 11:26	1.0		
059	317a059	?SAMPLE	198153-002			131647	11/14/07 11:53	1.0		

Standards used: 1=S6952 2=S7541 3=S7310 4=S7540 5=S7539 6=S6809

REPORTING SUMMARY FOR 199163 GCSV Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
199163-001	GC17A	11/13/07 11:59	1.0	+	+	+	
199163-002	GC17A	11/13/07 12:26	1.0	+	+	+	
199163-003	GC17A	11/13/07 11:04	5.0	+	+	+	
199163-004	GC17A	11/13/07 09:41	1.0	+	+	+	
199163-005	GC17A	11/13/07 13:21	1.0	+	+	+	
199163-006	GC17A	11/13/07 12:53	1.0	+	+	+	
QC415000	GC14B	11/13/07 09:17	1.0				
QC415000	GC17A	11/13/07 13:48	1.0	+	+	+	
QC415001	GC17A	11/13/07 09:13	1.0	+		+	
QC415002	GC17A	11/13/07 10:08	1.0	+		+	
QC415003	GC17A	11/13/07 10:36	1.0	+		+	

SAMPLE PREPARATION SUMMARY

Batch # : 131630
Started By : SFL
Method : SHAKER TABLE
Spike #1 ID : S7552

Prep Date : 12-NOV-2007

Spike #2 ID : S7578

Analysis : TEHM
Finished By : JJB
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
199032-001		Miscell.	50.17	20	1	0.3986		1				TEHM	Would not conc. any further
199075-001		Soil	50.19	5	1	0.09962		1				TEHM	
199075-002		Soil	50.15	5	1	0.0997		1				TEHM	
199084-007		Soil	50.13	5	1	0.09974		1			3630C	TEHM	
199084-008		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
199125-003		Soil	50.2	5	1	0.0996		1				TEHM	
199132-010		Soil	50.3	5	1	0.0994		1				TEHM	
199134-001		Soil	50.17	5	1	0.09966		1				TEH	
199134-019		Soil	50.48	5	1	0.09905		1				TEH	
199134-020		Soil	50.35	5	1	0.0993		1				TEH	
199134-021		Soil	50.02	5	1	0.09996		1				TEH	
199163-001		Soil	50.22	5	1	0.09956		1			3630C	TEHM	
199163-002		Soil	50	5	1	0.1000		1			3630C	TEHM	
199163-003		Soil	50.33	5	1	0.09934		1			3630C	TEHM	
199163-004		Soil	50.26	5	1	0.09948		1			3630C	TEHM	mss
199163-005		Soil	50.22	5	1	0.09956		1			3630C	TEHM	
199163-006		Soil	50.05	5	1	0.0999		1			3630C	TEHM	
199182-013		Soil	50.14	5	1	0.09972		1				TEHM	Poss. concrete-DCM only
199182-014		Soil	49.94	5	1	0.1001		1				TEHM	Poss. concrete-DCM only
199182-015		Soil	50.08	5	1	0.09984		1				TEHM	Poss. concrete-DCM only
QC415000	BLANK	Soil	50.45	5	1	0.09911		1			3630C		
QC415001	LCS	Soil	50.08	5	1	0.09984		1	1		3630C		
QC415002	MS	Soil	50.19	5	1	0.09962		1	1		3630C		
QC415003	MSD	Soil	50.23	5	1	0.09954		1	1		3630C		

Analyst: JDG Date: 11/14/07 Reviewer: LH Date: 11/14/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 61

LIMS Batch No: 131630
LIMS Analysis TEH
Date Extracted: 11/12/07

Extraction Method:
☑ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	199032-001A	50.17	20		DIDN'D NEED CONCENTRATE TO 5ML'S
	199075-001A	50.19	5		
	02A	50.15			
	199084-007A	50.13		X	
5	08	50.02			
	199125-003A	50.20			
	199132-010	50.30			
	199124-001A	50.17			
	19	50.48			
10	20	50.35			
	21	50.02			
	199163-001A	50.22		X	
	02	50.00			
	03	50.33			
15	04	50.26			MSS
	05	50.22 JJB 11/14/07			
	06	50.025			
	MB QC 45000	50.45			
	LCS 01	50.08			
20	MS 02	50.19			
	MSD 03	50.23			
	199182-013	50.14			Possible concrete in sample - DCM only
	014	49.94			
	015	50.08			
					JJB 11/12/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM 47158737	CFL 11/12/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	↓ 47073737	
1.0 mL of Surrogate solution was added to all samples	ST552A	
1.0 mL of Matrix Spiking solution was added to all spikes	ST578C	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all	CH_2Cl_2 EM 47158	
	Acetone EM 47100	
Samples were: ☐ sonicated 3 times ☑ placed on shaker table at:	1047 / 2055+	
taken off shaker table at:	19:47 / 2305+	JJB 11/12/07
Extracts filtered through baked, rinsed ~~powdered~~ Na_2SO_4	EM 47073737 EM 47158737	
Concentrated to volumes as noted above	↓	
Relinquished to TEH Department	↓	

11/12/07
Extraction Chemist / Date

Continued from page 1
Continued on page _____

11/13/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: JJB
Cleanup Date: 11/12/07

Benchbook # **2611**
Page 16

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
199084-007	131630	1.0	1.0	
8				
199163001				
2				
3				
4				MSS
5				
6				
MB QC 415006				
LCS 1				
MS 2				
MSD 3				
				JJB 11/12/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	—	JJB 11/12/07
☑ Extracts were cleaned up using 1.0 g cartridges	SP9293	
Extracts were eluted with 4.0 mL CH_2Cl_2	EPH47178	
Concentrated to volumes as noted above	↓	↓

11/12/07
Extraction Chemist / Date

Continued from page —
Continued on page —

11/13/07
Reviewed by / Date

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199090-009	50.25	TEH		COMP -001,002,003,004 all leftCA @10g; -005,006,007,008 all leftCA @10g
↓ -010	50.03	↓		
			CCB 11/9/07	
199092-001 A	30.05	PCB		
↓ -002 ↓	30.04	↓		
↓ -003 ↓	30.13	↓		
			CCB 11/9/07	
199095-009	30.05	PCB		MSS-COMP -001,002,003 ALL LEFTCA @10g; -004,005,006,007,008 ALL LEFTCA @ 10g
↓ -010	30.01	↓		↓
MB	30.09			EM4715837
LCS	30.02			↓
MS	30.03			199095-009
MSD	30.02	↓		↓
			CCB 11/9/07	
199084-007 A	50.13	TEHM	131630	
↓ -008 ↓	50.02	↓	↓	
			CCB 11/9/07	
199 ~~CCB~~ 11/9/07				
199091-001 A	30.02	PCB		
-002	30.11			
-003	30.06			
-004	30.08			
-005	30.15			
-006	30.14			
-007	30.03			
-008	30.15			
-009	30.21			
-010	30.16			
-011	30.04			
				CCB 11/9/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project 5011 Aliquot

BK2588

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
199132-001A	50.17	TEHM	131630	(OLLY)
199075-001A	50.19			
↓ 002↓	50.15	↓	↓	DDT 11/12/07
199108-013A	29.99	PCB		
199157-002A	30.44	8270		MSS
199160-003A	29.82			
004	29.77			
005	29.73			
006	29.79			
↓ 007 ↓	29.85			
MB	29.81			EM47158737
LCS	30.42			↓
MS	29.78			199157-002
MSD	29.63	↓		↓
				MJD 11/2/07
~~H03-001~~				
-002				
-003				PAL 11/12/07
199163-001A	50.22	TEHM	131630	
-002	50.08			
-003	50.33			
-004	50.26			MSS
-005	50.22			
↓ -006 ↓	50.05			
199184-001A	50.10	TEH		
-019	50.48			
-020	50.35			
↓ -021 ↓	50.02	↓		
199125-003A	50.20	TEHM		
199132-010	50.30			Comp 001, 002, 003, 004 all wipe A @ 25.0g each
MB	50.45			EM47150737
LCS	50.08			↓
MS	50.19			199164-004A
MSD	50.23	↓		↓
				PAL 11/12/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight(g)	Analysis	Batch #	Comments
199182-013	50.14	TETHM	B1630	Possible concrete in sample comp @25g each 1-4A
014	49.94			5-8A
015	50.08			9-12A
199182-013	29.93	8270-SIM		Possible concrete in sample comp @25g each 1-4A
014	29.96			5-8A
015	29.75			9-12A
			RFW	11/2/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Volatile Organics
Soil

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX341[7.0]	Diln Fac:	0.8929
Lab ID:	199163-001	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Moisture: 18%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.59
Chloromethane	ND	11	0.69
Vinyl Chloride	ND	11	0.61
Bromomethane	ND	11	0.48
Chloroethane	ND	11	0.50
Trichlorofluoromethane	ND	5.4	0.56
Acetone	4.1 J	22	1.0
Freon 113	ND	5.4	0.67
1,1-Dichloroethene	ND	5.4	0.48
Methylene Chloride	1.4 J	22	0.44
Carbon Disulfide	ND	5.4	0.55
MTBE	ND	5.4	0.49
trans-1,2-Dichloroethene	ND	5.4	0.44
Vinyl Acetate	ND	54	0.39
1,1-Dichloroethane	ND	5.4	0.41
2-Butanone	ND	11	0.54
cis-1,2-Dichloroethene	ND	5.4	0.44
2,2-Dichloropropane	ND	5.4	0.41
Chloroform	ND	5.4	0.40
Bromochloromethane	ND	5.4	0.26
1,1,1-Trichloroethane	ND	5.4	0.37
1,1-Dichloropropene	ND	5.4	0.39
Carbon Tetrachloride	ND	5.4	0.44
1,2-Dichloroethane	ND	5.4	0.41
Benzene	ND	5.4	0.33
Trichloroethene	ND	5.4	0.47
1,2-Dichloropropane	ND	5.4	0.43
Bromodichloromethane	ND	5.4	0.44
Dibromomethane	ND	5.4	0.39
4-Methyl-2-Pentanone	ND	11	0.28
cis-1,3-Dichloropropene	ND	5.4	0.34
Toluene	ND	5.4	0.45
trans-1,3-Dichloropropene	ND	5.4	0.28
1,1,2-Trichloroethane	ND	5.4	0.43
2-Hexanone	ND	11	0.47
1,3-Dichloropropane	ND	5.4	0.31
Tetrachloroethene	ND	5.4	0.54
Dibromochloromethane	ND	5.4	0.34
1,2-Dibromoethane	ND	5.4	0.25
Chlorobenzene	ND	5.4	0.30
1,1,1,2-Tetrachloroethane	ND	5.4	0.39
Ethylbenzene	ND	5.4	0.44
m,p-Xylenes	ND	5.4	1.0
o-Xylene	ND	5.4	0.56
Styrene	ND	5.4	0.51
Bromoform	ND	5.4	0.22
Isopropylbenzene	ND	5.4	0.66
1,1,2,2-Tetrachloroethane	ND	5.4	0.30
1,2,3-Trichloropropane	ND	5.4	0.47
Propylbenzene	ND	5.4	0.70

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX341[7.0]	Diln Fac:	0.8929
Lab ID:	199163-001	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Analyte	Result	RL	MDL
Bromobenzene	ND	5.4	0.45
1,3,5-Trimethylbenzene	ND	5.4	0.73
2-Chlorotoluene	ND	5.4	0.62
4-Chlorotoluene	ND	5.4	0.36
tert-Butylbenzene	ND	5.4	0.86
1,2,4-Trimethylbenzene	ND	5.4	0.57
sec-Butylbenzene	ND	5.4	0.98
para-Isopropyl Toluene	ND	5.4	0.85
1,3-Dichlorobenzene	ND	5.4	0.60
1,4-Dichlorobenzene	ND	5.4	0.49
n-Butylbenzene	ND	5.4	0.88
1,2-Dichlorobenzene	ND	5.4	0.41
1,2-Dibromo-3-Chloropropane	ND	5.4	0.66
1,2,4-Trichlorobenzene	ND	5.4	0.67
Hexachlorobutadiene	ND	5.4	0.97
Naphthalene	ND	5.4	0.52
1,2,3-Trichlorobenzene	ND	5.4	0.62

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	89	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	112	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

000071

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP111207	Diln Fac:	0.8475
Lab ID:	199163-002	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Moisture: 23%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.59
Chloromethane	ND	11	0.69
Vinyl Chloride	ND	11	0.61
Bromomethane	ND	11	0.49
Chloroethane	ND	11	0.50
Trichlorofluoromethane	ND	5.5	0.57
Acetone	8.4 J	22	1.0
Freon 113	ND	5.5	0.68
1,1-Dichloroethene	ND	5.5	0.48
Methylene Chloride	3.0 J	22	0.45
Carbon Disulfide	ND	5.5	0.56
MTBE	ND	5.5	0.50
trans-1,2-Dichloroethene	ND	5.5	0.45
Vinyl Acetate	ND	55	0.40
1,1-Dichloroethane	ND	5.5	0.42
2-Butanone	1.2 J	11	0.55
cis-1,2-Dichloroethene	ND	5.5	0.44
2,2-Dichloropropane	ND	5.5	0.42
Chloroform	ND	5.5	0.40
Bromochloromethane	ND	5.5	0.26
1,1,1-Trichloroethane	ND	5.5	0.37
1,1-Dichloropropene	ND	5.5	0.40
Carbon Tetrachloride	ND	5.5	0.45
1,2-Dichloroethane	ND	5.5	0.41
Benzene	ND	5.5	0.34
Trichloroethene	ND	5.5	0.47
1,2-Dichloropropane	ND	5.5	0.44
Bromodichloromethane	ND	5.5	0.44
Dibromomethane	ND	5.5	0.39
4-Methyl-2-Pentanone	ND	11	0.28
cis-1,3-Dichloropropene	ND	5.5	0.35
Toluene	ND	5.5	0.45
trans-1,3-Dichloropropene	ND	5.5	0.29
1,1,2-Trichloroethane	ND	5.5	0.44
2-Hexanone	ND	11	0.47
1,3-Dichloropropane	ND	5.5	0.31
Tetrachloroethene	ND	5.5	0.55
Dibromochloromethane	ND	5.5	0.34
1,2-Dibromoethane	ND	5.5	0.26
Chlorobenzene	ND	5.5	0.31
1,1,1,2-Tetrachloroethane	ND	5.5	0.39
Ethylbenzene	ND	5.5	0.44
m,p-Xylenes	ND	5.5	1.0
o-Xylene	ND	5.5	0.56
Styrene	ND	5.5	0.51
Bromoform	ND	5.5	0.22
Isopropylbenzene	ND	5.5	0.67
1,1,2,2-Tetrachloroethane	ND	5.5	0.30
1,2,3-Trichloropropane	ND	5.5	0.48
Propylbenzene	ND	5.5	0.71

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP111207	Diln Fac:	0.8475
Lab ID:	199163-002	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Analyte	Result	RL	MDL
Bromobenzene	ND	5.5	0.46
1,3,5-Trimethylbenzene	ND	5.5	0.74
2-Chlorotoluene	ND	5.5	0.63
4-Chlorotoluene	ND	5.5	0.36
tert-Butylbenzene	ND	5.5	0.87
1,2,4-Trimethylbenzene	ND	5.5	0.58
sec-Butylbenzene	ND	5.5	0.99
para-Isopropyl Toluene	ND	5.5	0.86
1,3-Dichlorobenzene	ND	5.5	0.61
1,4-Dichlorobenzene	ND	5.5	0.50
n-Butylbenzene	ND	5.5	0.89
1,2-Dichlorobenzene	ND	5.5	0.41
1,2-Dibromo-3-Chloropropane	ND	5.5	0.67
1,2,4-Trichlorobenzene	ND	5.5	0.68
Hexachlorobutadiene	ND	5.5	0.98
Naphthalene	ND	5.5	0.52
1,2,3-Trichlorobenzene	ND	5.5	0.63

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	92	79-136
Toluene-d8	102	80-120
Bromofluorobenzene	111	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX342[5.0]	Diln Fac:	0.9615
Lab ID:	199163-003	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Moisture: 9%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.57
Chloromethane	ND	11	0.67
Vinyl Chloride	ND	11	0.59
Bromomethane	ND	11	0.47
Chloroethane	ND	11	0.48
Trichlorofluoromethane	ND	5.3	0.54
Acetone	4.4 J	21	0.97
Freon 113	ND	5.3	0.65
1,1-Dichloroethene	ND	5.3	0.46
Methylene Chloride	2.1 J	21	0.43
Carbon Disulfide	ND	5.3	0.53
MTBE	ND	5.3	0.48
trans-1,2-Dichloroethene	ND	5.3	0.43
Vinyl Acetate	ND	53	0.38
1,1-Dichloroethane	ND	5.3	0.40
2-Butanone	ND	11	0.52
cis-1,2-Dichloroethene	ND	5.3	0.43
2,2-Dichloropropane	ND	5.3	0.40
Chloroform	ND	5.3	0.39
Bromochloromethane	ND	5.3	0.25
1,1,1-Trichloroethane	ND	5.3	0.36
1,1-Dichloropropene	ND	5.3	0.38
Carbon Tetrachloride	ND	5.3	0.43
1,2-Dichloroethane	ND	5.3	0.39
Benzene	ND	5.3	0.32
Trichloroethene	ND	5.3	0.45
1,2-Dichloropropane	ND	5.3	0.42
Bromodichloromethane	ND	5.3	0.42
Dibromomethane	ND	5.3	0.38
4-Methyl-2-Pentanone	ND	11	0.27
cis-1,3-Dichloropropene	ND	5.3	0.33
Toluene	ND	5.3	0.44
trans-1,3-Dichloropropene	ND	5.3	0.28
1,1,2-Trichloroethane	ND	5.3	0.42
2-Hexanone	ND	11	0.45
1,3-Dichloropropane	ND	5.3	0.30
Tetrachloroethene	ND	5.3	0.53
Dibromochloromethane	ND	5.3	0.33
1,2-Dibromoethane	ND	5.3	0.25
Chlorobenzene	ND	5.3	0.29
1,1,1,2-Tetrachloroethane	ND	5.3	0.38
Ethylbenzene	ND	5.3	0.43
m,p-Xylenes	ND	5.3	0.98
o-Xylene	ND	5.3	0.54
Styrene	ND	5.3	0.49
Bromoform	ND	5.3	0.21
Isopropylbenzene	ND	5.3	0.64
1,1,2,2-Tetrachloroethane	ND	5.3	0.29
1,2,3-Trichloropropane	ND	5.3	0.46
Propylbenzene	ND	5.3	0.68

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX342[5.0]	Diln Fac:	0.9615
Lab ID:	199163-003	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Analyte	Result	RL	MDL
Bromobenzene	ND	5.3	0.44
1,3,5-Trimethylbenzene	ND	5.3	0.71
2-Chlorotoluene	ND	5.3	0.60
4-Chlorotoluene	ND	5.3	0.35
tert-Butylbenzene	ND	5.3	0.83
1,2,4-Trimethylbenzene	ND	5.3	0.56
sec-Butylbenzene	ND	5.3	0.95
para-Isopropyl Toluene	ND	5.3	0.82
1,3-Dichlorobenzene	ND	5.3	0.58
1,4-Dichlorobenzene	ND	5.3	0.48
n-Butylbenzene	ND	5.3	0.86
1,2-Dichlorobenzene	ND	5.3	0.40
1,2-Dibromo-3-Chloropropane	ND	5.3	0.64
1,2,4-Trichlorobenzene	ND	5.3	0.65
Hexachlorobutadiene	ND	5.3	0.94
Naphthalene	ND	5.3	0.50
1,2,3-Trichlorobenzene	ND	5.3	0.60

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-124
1,2-Dichloroethane-d4	88	79-136
Toluene-d8	103	80-120
Bromofluorobenzene	113	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX343[5.0]	Basis:	dry
Lab ID:	199163-004	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg		

Moisture: 11%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Freon 12	ND	17	1.6	1.515	131648	11/13/07
Chloromethane	ND	17	1.0	1.515	131648	11/13/07
Vinyl Chloride	ND	17	0.85	1.515	131648	11/13/07
Bromomethane	ND	17	1.4	1.515	131648	11/13/07
Chloroethane	ND	17	1.4	1.515	131648	11/13/07
Trichlorofluoromethane	ND	8.5	1.5	1.515	131648	11/13/07
Acetone	12 J	21	0.96	0.9259	131629	11/12/07
Freon 113	ND	8.5	3.5	1.515	131648	11/13/07
1,1-Dichloroethene	ND	8.5	0.55	1.515	131648	11/13/07
Methylene Chloride	2.0 J	34	0.89	1.515	131648	11/13/07
Carbon Disulfide	ND	8.5	0.91	1.515	131648	11/13/07
MTBE	ND	8.5	1.2	1.515	131648	11/13/07
trans-1,2-Dichloroethene	ND	8.5	0.98	1.515	131648	11/13/07
Vinyl Acetate	ND	85	1.2	1.515	131648	11/13/07
1,1-Dichloroethane	ND	8.5	1.3	1.515	131648	11/13/07
2-Butanone	3.9 J	17	1.7	1.515	131648	11/13/07
cis-1,2-Dichloroethene	ND	8.5	1.3	1.515	131648	11/13/07
2,2-Dichloropropane	ND	8.5	1.2	1.515	131648	11/13/07
Chloroform	ND	8.5	0.92	1.515	131648	11/13/07
Bromochloromethane	ND	8.5	1.2	1.515	131648	11/13/07
1,1,1-Trichloroethane	ND	8.5	0.77	1.515	131648	11/13/07
1,1-Dichloropropene	ND	8.5	1.1	1.515	131648	11/13/07
Carbon Tetrachloride	ND	8.5	1.5	1.515	131648	11/13/07
1,2-Dichloroethane	ND	8.5	1.1	1.515	131648	11/13/07
Benzene	ND	8.5	1.2	1.515	131648	11/13/07
Trichloroethene	ND	8.5	1.4	1.515	131648	11/13/07
1,2-Dichloropropane	ND	8.5	1.5	1.515	131648	11/13/07
Bromodichloromethane	ND	8.5	1.4	1.515	131648	11/13/07
Dibromomethane	ND	8.5	1.2	1.515	131648	11/13/07
4-Methyl-2-Pentanone	ND	17	1.1	1.515	131648	11/13/07
cis-1,3-Dichloropropene	ND	8.5	1.1	1.515	131648	11/13/07
Toluene	ND	8.5	1.2	1.515	131648	11/13/07
trans-1,3-Dichloropropene	ND	8.5	1.1	1.515	131648	11/13/07
1,1,2-Trichloroethane	ND	8.5	1.2	1.515	131648	11/13/07
2-Hexanone	ND	17	1.4	1.515	131648	11/13/07
1,3-Dichloropropane	ND	8.5	1.1	1.515	131648	11/13/07
Tetrachloroethene	ND	8.5	1.3	1.515	131648	11/13/07
Dibromochloromethane	ND	8.5	1.2	1.515	131648	11/13/07
1,2-Dibromoethane	ND	8.5	1.2	1.515	131648	11/13/07
Chlorobenzene	ND	8.5	1.1	1.515	131648	11/13/07
1,1,1,2-Tetrachloroethane	ND	8.5	0.98	1.515	131648	11/13/07
Ethylbenzene	ND	8.5	0.89	1.515	131648	11/13/07
m,p-Xylenes	ND	8.5	1.8	1.515	131648	11/13/07
o-Xylene	ND	8.5	0.99	1.515	131648	11/13/07
Styrene	ND	8.5	1.2	1.515	131648	11/13/07
Bromoform	ND	8.5	0.99	1.515	131648	11/13/07
Isopropylbenzene	ND	8.5	0.91	1.515	131648	11/13/07
1,1,2,2-Tetrachloroethane	ND	8.5	1.2	1.515	131648	11/13/07
1,2,3-Trichloropropane	ND	8.5	1.2	1.515	131648	11/13/07
Propylbenzene	ND	8.5	0.98	1.515	131648	11/13/07
Bromobenzene	ND	8.5	1.5	1.515	131648	11/13/07

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX343[5.0]	Basis:	dry
Lab ID:	199163-004	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg		

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
1,3,5-Trimethylbenzene	ND	8.5	1.2	1.515	131648	11/13/07
2-Chlorotoluene	ND	8.5	1.1	1.515	131648	11/13/07
4-Chlorotoluene	ND	8.5	1.6	1.515	131648	11/13/07
tert-Butylbenzene	ND	8.5	1.1	1.515	131648	11/13/07
1,2,4-Trimethylbenzene	ND	8.5	1.3	1.515	131648	11/13/07
sec-Butylbenzene	ND	8.5	1.3	1.515	131648	11/13/07
para-Isopropyl Toluene	ND	8.5	1.2	1.515	131648	11/13/07
1,3-Dichlorobenzene	ND	8.5	1.1	1.515	131648	11/13/07
1,4-Dichlorobenzene	ND	8.5	1.2	1.515	131648	11/13/07
n-Butylbenzene	ND	8.5	0.97	1.515	131648	11/13/07
1,2-Dichlorobenzene	ND	8.5	1.5	1.515	131648	11/13/07
1,2-Dibromo-3-Chloropropane	ND	8.5	1.5	1.515	131648	11/13/07
1,2,4-Trichlorobenzene	ND	8.5	1.4	1.515	131648	11/13/07
Hexachlorobutadiene	ND	8.5	0.97	1.515	131648	11/13/07
Naphthalene	ND	8.5	0.91	1.515	131648	11/13/07
1,2,3-Trichlorobenzene	ND	8.5	1.0	1.515	131648	11/13/07

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	95	80-124	1.515	131648	11/13/07
1,2-Dichloroethane-d4	103	79-136	1.515	131648	11/13/07
Toluene-d8	105	80-120	1.515	131648	11/13/07
Bromofluorobenzene	90	80-122	1.515	131648	11/13/07

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

25.1

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX344[5.0]	Diln Fac:	0.9091
Lab ID:	199163-005	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Moisture: 13%

Analyte	Result	RL	MDL
Freon 12	ND	10	0.56
Chloromethane	ND	10	0.66
Vinyl Chloride	ND	10	0.58
Bromomethane	ND	10	0.46
Chloroethane	ND	10	0.48
Trichlorofluoromethane	ND	5.2	0.54
Acetone	17 J	21	0.96
Freon 113	ND	5.2	0.64
1,1-Dichloroethene	ND	5.2	0.46
Methylene Chloride	1.4 J	21	0.42
Carbon Disulfide	ND	5.2	0.53
MTBE	ND	5.2	0.47
trans-1,2-Dichloroethene	ND	5.2	0.43
Vinyl Acetate	ND	52	0.38
1,1-Dichloroethane	ND	5.2	0.39
2-Butanone	3.7 J	10	0.52
cis-1,2-Dichloroethene	ND	5.2	0.42
2,2-Dichloropropane	ND	5.2	0.39
Chloroform	ND	5.2	0.38
Bromochloromethane	ND	5.2	0.25
1,1,1-Trichloroethane	ND	5.2	0.36
1,1-Dichloropropene	ND	5.2	0.38
Carbon Tetrachloride	ND	5.2	0.42
1,2-Dichloroethane	ND	5.2	0.39
Benzene	ND	5.2	0.32
Trichloroethene	ND	5.2	0.45
1,2-Dichloropropane	ND	5.2	0.42
Bromodichloromethane	ND	5.2	0.42
Dibromomethane	ND	5.2	0.37
4-Methyl-2-Pentanone	ND	10	0.26
cis-1,3-Dichloropropene	ND	5.2	0.33
Toluene	ND	5.2	0.43
trans-1,3-Dichloropropene	ND	5.2	0.27
1,1,2-Trichloroethane	ND	5.2	0.42
2-Hexanone	ND	10	0.45
1,3-Dichloropropane	ND	5.2	0.30
Tetrachloroethene	ND	5.2	0.52
Dibromochloromethane	ND	5.2	0.32
1,2-Dibromoethane	ND	5.2	0.24
Chlorobenzene	ND	5.2	0.29
1,1,1,2-Tetrachloroethane	ND	5.2	0.37
Ethylbenzene	ND	5.2	0.42
m,p-Xylenes	ND	5.2	0.97
o-Xylene	ND	5.2	0.54
Styrene	ND	5.2	0.49
Bromoform	ND	5.2	0.21
Isopropylbenzene	ND	5.2	0.63
1,1,2,2-Tetrachloroethane	ND	5.2	0.28
1,2,3-Trichloropropane	ND	5.2	0.46
Propylbenzene	ND	5.2	0.68

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX344[5.0]	Diln Fac:	0.9091
Lab ID:	199163-005	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Analyte	Result	RL	MDL
Bromobenzene	ND	5.2	0.43
1,3,5-Trimethylbenzene	ND	5.2	0.70
2-Chlorotoluene	ND	5.2	0.59
4-Chlorotoluene	ND	5.2	0.34
tert-Butylbenzene	ND	5.2	0.83
1,2,4-Trimethylbenzene	ND	5.2	0.55
sec-Butylbenzene	ND	5.2	0.94
para-Isopropyl Toluene	ND	5.2	0.81
1,3-Dichlorobenzene	ND	5.2	0.58
1,4-Dichlorobenzene	ND	5.2	0.47
n-Butylbenzene	ND	5.2	0.85
1,2-Dichlorobenzene	ND	5.2	0.39
1,2-Dibromo-3-Chloropropane	ND	5.2	0.64
1,2,4-Trichlorobenzene	ND	5.2	0.65
Hexachlorobutadiene	ND	5.2	0.93
Naphthalene	ND	5.2	0.50
1,2,3-Trichlorobenzene	ND	5.2	0.60

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-124
1,2-Dichloroethane-d4	91	79-136
Toluene-d8	102	80-120
Bromofluorobenzene	109	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX345[5.0]	Diln Fac:	0.9091
Lab ID:	199163-006	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Moisture: 12%

Analyte	Result	RL	MDL
Freon 12	ND	10	0.56
Chloromethane	ND	10	0.65
Vinyl Chloride	ND	10	0.57
Bromomethane	ND	10	0.46
Chloroethane	ND	10	0.47
Trichlorofluoromethane	ND	5.2	0.53
Acetone	13 J	21	0.95
Freon 113	ND	5.2	0.63
1,1-Dichloroethene	ND	5.2	0.45
Methylene Chloride	2.6 J	21	0.42
Carbon Disulfide	ND	5.2	0.52
MTBE	ND	5.2	0.47
trans-1,2-Dichloroethene	ND	5.2	0.42
Vinyl Acetate	ND	52	0.37
1,1-Dichloroethane	ND	5.2	0.39
2-Butanone	2.7 J	10	0.51
cis-1,2-Dichloroethene	ND	5.2	0.42
2,2-Dichloropropane	ND	5.2	0.39
Chloroform	ND	5.2	0.38
Bromochloromethane	ND	5.2	0.25
1,1,1-Trichloroethane	ND	5.2	0.35
1,1-Dichloropropene	ND	5.2	0.37
Carbon Tetrachloride	ND	5.2	0.42
1,2-Dichloroethane	ND	5.2	0.39
Benzene	ND	5.2	0.31
Trichloroethene	ND	5.2	0.44
1,2-Dichloropropane	ND	5.2	0.41
Bromodichloromethane	ND	5.2	0.42
Dibromomethane	ND	5.2	0.37
4-Methyl-2-Pentanone	ND	10	0.26
cis-1,3-Dichloropropene	ND	5.2	0.33
Toluene	ND	5.2	0.43
trans-1,3-Dichloropropene	ND	5.2	0.27
1,1,2-Trichloroethane	ND	5.2	0.41
2-Hexanone	ND	10	0.44
1,3-Dichloropropane	ND	5.2	0.30
Tetrachloroethene	ND	5.2	0.52
Dibromochloromethane	ND	5.2	0.32
1,2-Dibromoethane	ND	5.2	0.24
Chlorobenzene	ND	5.2	0.29
1,1,1,2-Tetrachloroethane	ND	5.2	0.37
Ethylbenzene	ND	5.2	0.42
m,p-Xylenes	ND	5.2	0.96
o-Xylene	ND	5.2	0.53
Styrene	ND	5.2	0.48
Bromoform	ND	5.2	0.21
Isopropylbenzene	ND	5.2	0.62
1,1,2,2-Tetrachloroethane	ND	5.2	0.28
1,2,3-Trichloropropane	ND	5.2	0.45
Propylbenzene	ND	5.2	0.67

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX345[5.0]	Diln Fac:	0.9091
Lab ID:	199163-006	Batch#:	131629
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	dry	Analyzed:	11/12/07

Analyte	Result	RL	MDL
Bromobenzene	ND	5.2	0.43
1,3,5-Trimethylbenzene	ND	5.2	0.69
2-Chlorotoluene	ND	5.2	0.59
4-Chlorotoluene	ND	5.2	0.34
tert-Butylbenzene	ND	5.2	0.82
1,2,4-Trimethylbenzene	ND	5.2	0.55
sec-Butylbenzene	ND	5.2	0.93
para-Isopropyl Toluene	ND	5.2	0.80
1,3-Dichlorobenzene	ND	5.2	0.57
1,4-Dichlorobenzene	ND	5.2	0.47
n-Butylbenzene	ND	5.2	0.84
1,2-Dichlorobenzene	ND	5.2	0.39
1,2-Dibromo-3-Chloropropane	ND	5.2	0.63
1,2,4-Trichlorobenzene	ND	5.2	0.64
Hexachlorobutadiene	ND	5.2	0.92
Naphthalene	ND	5.2	0.49
1,2,3-Trichlorobenzene	ND	5.2	0.59

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-124
1,2-Dichloroethane-d4	92	79-136
Toluene-d8	101	80-120
Bromofluorobenzene	110	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

00001

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC414999	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131629
Units:	ug/Kg	Analyzed:	11/12/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.54
Chloromethane	ND	10	0.63
Vinyl Chloride	ND	10	0.56
Bromomethane	ND	10	0.44
Chloroethane	ND	10	0.46
Trichlorofluoromethane	ND	5.0	0.51
Acetone	2.2 J	20	0.92
Freon 113	ND	5.0	0.61
1,1-Dichloroethene	ND	5.0	0.44
Methylene Chloride	8.7 J	20	0.41
Carbon Disulfide	ND	5.0	0.51
MTBE	ND	5.0	0.45
trans-1,2-Dichloroethene	ND	5.0	0.41
Vinyl Acetate	ND	50	0.36
1,1-Dichloroethane	ND	5.0	0.38
2-Butanone	ND	10	0.50
cis-1,2-Dichloroethene	ND	5.0	0.40
2,2-Dichloropropane	ND	5.0	0.38
Chloroform	ND	5.0	0.37
Bromochloromethane	ND	5.0	0.24
1,1,1-Trichloroethane	ND	5.0	0.34
1,1-Dichloropropene	ND	5.0	0.36
Carbon Tetrachloride	ND	5.0	0.41
1,2-Dichloroethane	ND	5.0	0.37
Benzene	ND	5.0	0.30
Trichloroethene	ND	5.0	0.43
1,2-Dichloropropane	ND	5.0	0.40
Bromodichloromethane	ND	5.0	0.40
Dibromomethane	ND	5.0	0.35
4-Methyl-2-Pentanone	ND	10	0.25
cis-1,3-Dichloropropene	ND	5.0	0.32
Toluene	ND	5.0	0.41
trans-1,3-Dichloropropene	ND	5.0	0.26
1,1,2-Trichloroethane	ND	5.0	0.40
2-Hexanone	ND	10	0.43
1,3-Dichloropropane	ND	5.0	0.29
Tetrachloroethene	ND	5.0	0.50
Dibromochloromethane	ND	5.0	0.31
1,2-Dibromoethane	ND	5.0	0.23
Chlorobenzene	ND	5.0	0.28
1,1,1,2-Tetrachloroethane	ND	5.0	0.36
Ethylbenzene	ND	5.0	0.40
m,p-Xylenes	ND	5.0	0.93
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.47
Bromoform	ND	5.0	0.20
Isopropylbenzene	ND	5.0	0.60
1,1,2,2-Tetrachloroethane	ND	5.0	0.27
1,2,3-Trichloropropane	ND	5.0	0.44
Propylbenzene	ND	5.0	0.65
Bromobenzene	ND	5.0	0.41
1,3,5-Trimethylbenzene	ND	5.0	0.67

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

00092

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC414999	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131629
Units:	ug/Kg	Analyzed:	11/12/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.57
4-Chlorotoluene	ND	5.0	0.33
tert-Butylbenzene	ND	5.0	0.79
1,2,4-Trimethylbenzene	ND	5.0	0.53
sec-Butylbenzene	ND	5.0	0.90
para-Isopropyl Toluene	ND	5.0	0.78
1,3-Dichlorobenzene	ND	5.0	0.55
1,4-Dichlorobenzene	ND	5.0	0.45
n-Butylbenzene	ND	5.0	0.81
1,2-Dichlorobenzene	ND	5.0	0.37
1,2-Dibromo-3-Chloropropane	ND	5.0	0.61
1,2,4-Trichlorobenzene	ND	5.0	0.62
Hexachlorobutadiene	ND	5.0	0.89
Naphthalene	ND	5.0	0.48
1,2,3-Trichlorobenzene	ND	5.0	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	89	79-136
Toluene-d8	103	80-120
Bromofluorobenzene	111	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC415071	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131648
Units:	ug/Kg	Analyzed:	11/13/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.93
Chloromethane	ND	10	0.60
Vinyl Chloride	ND	10	0.50
Bromomethane	ND	10	0.82
Chloroethane	ND	10	0.82
Trichlorofluoromethane	ND	5.0	0.87
Acetone	1.0 J b	20	0.78
Freon 113	ND	5.0	2.0
1,1-Dichloroethene	ND	5.0	0.33
Methylene Chloride	3.0 J	20	0.52
Carbon Disulfide	ND	5.0	0.54
MTBE	ND	5.0	0.72
trans-1,2-Dichloroethene	ND	5.0	0.58
Vinyl Acetate	ND	50	0.68
1,1-Dichloroethane	ND	5.0	0.77
2-Butanone	ND	10	1.0
cis-1,2-Dichloroethene	ND	5.0	0.78
2,2-Dichloropropane	ND	5.0	0.69
Chloroform	ND	5.0	0.54
Bromochloromethane	ND	5.0	0.68
1,1,1-Trichloroethane	ND	5.0	0.45
1,1-Dichloropropene	ND	5.0	0.64
Carbon Tetrachloride	ND	5.0	0.88
1,2-Dichloroethane	ND	5.0	0.67
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.80
1,2-Dichloropropane	ND	5.0	0.89
Bromodichloromethane	ND	5.0	0.85
Dibromomethane	ND	5.0	0.70
4-Methyl-2-Pentanone	ND	10	0.63
cis-1,3-Dichloropropene	ND	5.0	0.65
Toluene	ND	5.0	0.69
trans-1,3-Dichloropropene	ND	5.0	0.66
1,1,2-Trichloroethane	ND	5.0	0.69
2-Hexanone	ND	10	0.82
1,3-Dichloropropane	ND	5.0	0.64
Tetrachloroethene	ND	5.0	0.73
Dibromochloromethane	ND	5.0	0.70
1,2-Dibromoethane	ND	5.0	0.72
Chlorobenzene	ND	5.0	0.65
1,1,1,2-Tetrachloroethane	ND	5.0	0.58
Ethylbenzene	ND	5.0	0.52
m,p-Xylenes	ND	5.0	1.0
o-Xylene	ND	5.0	0.58
Styrene	ND	5.0	0.72
Bromoform	ND	5.0	0.58
Isopropylbenzene	ND	5.0	0.53
1,1,2,2-Tetrachloroethane	ND	5.0	0.69
1,2,3-Trichloropropane	ND	5.0	0.68
Propylbenzene	ND	5.0	0.58
Bromobenzene	ND	5.0	0.88

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC415071	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131648
Units:	ug/Kg	Analyzed:	11/13/07

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	5.0	0.70
2-Chlorotoluene	ND	5.0	0.67
4-Chlorotoluene	ND	5.0	0.95
tert-Butylbenzene	ND	5.0	0.66
1,2,4-Trimethylbenzene	ND	5.0	0.74
sec-Butylbenzene	ND	5.0	0.76
para-Isopropyl Toluene	ND	5.0	0.68
1,3-Dichlorobenzene	ND	5.0	0.63
1,4-Dichlorobenzene	ND	5.0	0.69
n-Butylbenzene	ND	5.0	0.57
1,2-Dichlorobenzene	ND	5.0	0.90
1,2-Dibromo-3-Chloropropane	ND	5.0	0.88
1,2,4-Trichlorobenzene	ND	5.0	0.83
Hexachlorobutadiene	ND	5.0	0.57
Naphthalene	ND	5.0	0.53
1,2,3-Trichlorobenzene	ND	5.0	0.60

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	106	79-136
Toluene-d8	106	80-120
Bromofluorobenzene	90	80-122

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC414998	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131629
Units:	ug/Kg	Analyzed:	11/12/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.24	109	74-131
Benzene	25.00	28.24	113	77-121
Trichloroethene	25.00	26.78	107	77-121
Toluene	25.00	30.15	121	79-122
Chlorobenzene	25.00	26.34	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	88	80-124
1,2-Dichloroethane-d4	84	79-136
Toluene-d8	110	80-120
Bromofluorobenzene	105	80-122

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	131648
Basis:	as received	Analyzed:	11/13/07

Type: BS Lab ID: QC415069

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.15	101	74-131
Benzene	25.00	24.50	98	77-121
Trichloroethene	25.00	26.42	106	77-121
Toluene	25.00	25.39	102	79-122
Chlorobenzene	25.00	24.69	99	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	100	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	90	80-122

Type: BSD Lab ID: QC415070

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.35	109	74-131	8	20
Benzene	25.00	25.36	101	77-121	3	20
Trichloroethene	25.00	27.71	111	77-121	5	20
Toluene	25.00	26.29	105	79-122	3	20
Chlorobenzene	25.00	24.89	100	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	101	79-136
Toluene-d8	105	80-120
Bromofluorobenzene	88	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX343[5.0]	Batch#:	131648
MSS Lab ID:	199163-004	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg	Analyzed:	11/13/07
Basis:	dry		

Type:	MS	Moisture:	11%
Lab ID:	QC415224	Diln Fac:	0.9434

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5538	53.00	55.78	105	61-145
Benzene	<1.213	53.00	50.21	95	57-123
Trichloroethene	<1.356	53.00	54.06	102	52-141
Toluene	<1.167	53.00	52.71	99	53-126
Chlorobenzene	<1.109	53.00	48.42	91	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	102	79-136
Toluene-d8	107	80-120
Bromofluorobenzene	90	80-122

Type:	MSD	Moisture:	11%
Lab ID:	QC415225	Diln Fac:	0.9615

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	54.02	57.52	106	61-145	1	26
Benzene	54.02	50.65	94	57-123	1	25
Trichloroethene	54.02	51.33	95	52-141	7	26
Toluene	54.02	50.98	94	53-126	5	27
Chlorobenzene	54.02	44.95	83	49-121	9	27

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	103	79-136
Toluene-d8	108	80-120
Bromofluorobenzene	92	80-122

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457437048008 File : fju08 Time : 30-OCT-2007 15:16

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	52320	21.50	
75	30% - 60% of mass 95	110757	45.51	
95		243349		
96	5% - 9% of mass 95	15946	6.55	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	193258	79.42	
175	5% - 9% of mass 174	13225	6.84	
176	> 95% and < 101% of mass 174	190720	98.69	
177	5% - 9% of mass 176	12349	6.47	

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

457437048008

CURTIS & TOMPKINS BFB TUNE FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457456946002 File : fkd02 Time : 13-NOV-2007 08:20

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	17793	20.62	
75	30% - 60% of mass 95	38584	44.72	
95		86285		
96	5% - 9% of mass 95	5965	6.91	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	73037	84.65	
175	5% - 9% of mass 174	3916	5.36	
176	> 95% and < 101% of mass 174	70154	96.05	
177	5% - 9% of mass 176	4621	6.59	

Analyst: BO Date: 11/13/07 Reviewer: LW Date: 11/13/07

457456946002

CURTIS & TOMPKINS BFB TUNE FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457456946007 File : fkd07 Time : 13-NOV-2007 11:21

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	70866	20.14	
75	30% - 60% of mass 95	154024	43.77	
95		351914		
96	5% - 9% of mass 95	22572	6.41	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	296533	84.26	
175	5% - 9% of mass 174	22365	7.54	
176	> 95% and < 101% of mass 174	284053	95.79	
177	5% - 9% of mass 176	19211	6.76	

Analyst: BO Date: 11/13/07 Reviewer: LW Date: 11/13/07

457456946007

CURTIS & TOMPKINS BFB TUNE FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887436786010 File : lju10 Time : 30-OCT-2007 15:38

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12308	19.39	
75	30% - 60% of mass 95	32098	50.58	
95		63464		
96	5% - 9% of mass 95	4233	6.67	
173	< 2% of mass 174	522	1.05	
174	> 50% and < 100% of mass 95	49762	78.41	
175	5% - 9% of mass 174	3542	7.12	
176	> 95% and < 101% of mass 174	48338	97.14	
177	5% - 9% of mass 176	3224	6.67	

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

887436786010

00092

CURTIS & TOMPKINS BFB TUNE FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 887455508013 File : lkc13 Time : 12-NOV-2007 16:26

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7514	16.62	
75	30% - 60% of mass 95	21143	46.76	
95		45218		
96	5% - 9% of mass 95	3087	6.83	
173	< 2% of mass 174	336	0.95	
174	> 50% and < 100% of mass 95	35330	78.13	
175	5% - 9% of mass 174	2466	6.98	
176	> 95% and < 101% of mass 174	33618	95.15	
177	5% - 9% of mass 176	2418	7.19	

Analyst: ACM Date: 11/13/07 Reviewer: LW Date: 11/13/07

887455508013

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 MSVOA Soil: EPA 8260B

Inst : MSVOA06 Name : 826GOX6S
Calnum : 457437048001 Date : 30-OCT-2007 17:19 Type : SOIL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fju12	457437048012	2.5PPB	30-OCT-2007 17:19	S7424 (20000X), S7425 (20000X), S7444 (1000X)
L2	fju13	457437048013	5PPB	30-OCT-2007 17:54	S7424 (10000X), S7425 (10000X), S7444 (1000X)
L3	fju14	457437048014	10PPB	30-OCT-2007 18:30	S7424 (5000X), S7425 (5000X), S7444 (1000X)
L4	fju15	457437048015	20PPB	30-OCT-2007 19:05	S7417 (25000X), S7531 (25000X), S7444 (1000X)
L5	fju16	457437048016	50PPB	30-OCT-2007 19:40	S7417 (10000X), S7531 (10000X), S7444 (1000X)
L6	fju17	457437048017	60PPB	30-OCT-2007 20:15	S7417 (8333X), S7531 (8333X), S7444 (1000X)
L7	fju18	457437048018	75PPB	30-OCT-2007 20:50	S7417 (6667X), S7531 (6667X), S7444 (1000X)
L8	fju19	457437048019	100PPB	30-OCT-2007 21:24	S7417 (5000X), S7531 (5000X), S7444 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.4830	0.4763	0.6396	0.6148	0.6037	0.5614	0.5948	AVRG		1.76164		0.5677	11	15	0.05	0.99	
Chloromethane		1.0497m	1.0167	1.1664	1.1042	1.1075	1.0371	1.0601	AVRG		0.92819		1.0774	5	15	0.10	0.99	
Vinyl Chloride	0.8684	0.8172m	0.8472	0.9767	0.8846	0.8936	0.8188	0.8468	AVRG		1.15052		0.8692	6	15	0.05	0.99	
Bromomethane		0.3422	0.3644m	0.4110	0.4119	0.3909	0.3733	0.3636	AVRG		2.63430		0.3796	7	15	0.05	0.99	
Chloroethane		0.4065	0.4302	0.4576	0.4553	0.4270	0.4021	0.3960	AVRG		2.35323		0.4249	6	15	0.05	0.99	
Trichlorofluoromethane		0.8152	0.8533	0.8814	0.8326	0.7977	0.7540	0.7788	AVRG		1.22528		0.8161	5	15	0.05	0.99	
Acetone		0.5303	0.5540	0.5463	0.5070	0.5053	0.4567	0.4542	AVRG		1.96967		0.5077	8	15	0.05	0.99	
Freon 113		0.7002	0.7460	0.6944	0.7148	0.6754	0.6175	0.6634	AVRG		1.45479		0.6874	6	15	0.05	0.99	
1,1-Dichloroethene		0.6157	0.5977	0.6015	0.5950	0.5703	0.5404	0.5637	AVRG		1.71387		0.5835	4	15	0.05	0.99	
Methylene Chloride		0.8883	0.8954	0.9431	0.9103	0.8865	0.8255	0.8518	AVRG		1.12887		0.8858	4	15	0.05	0.99	
Carbon Disulfide		2.6591	2.6660	2.7167	2.6304	2.5601	2.4176	2.5177	AVRG		0.38530		2.5954	4	15	0.05	0.99	
MTBE		2.3086	2.3206	2.3917	2.3601	2.2913	2.1479	2.1355	AVRG		0.43872		2.2794	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.7472	0.7390	0.7644	0.7262	0.7191	0.6728	0.6873	AVRG		1.38450		0.7223	5	15	0.05	0.99	
Vinyl Acetate			1.5845	2.2139	2.2794	2.2786	2.1623	2.2310	AVRG		0.47060		2.1249	13	15	0.05	0.99	
1,1-Dichloroethane		1.5711	1.5994	1.5767	1.5487	1.5144	1.3821	1.4856	AVRG		0.65555		1.5254	5	15	0.10	0.99	
2-Butanone		0.7169	0.7479	0.7739	0.7934	0.8115	0.7333	0.7416	AVRG		1.31616		0.7598	5	15	0.05	0.99	
2,2-Dichloropropane		0.7163	0.7552	0.7746	0.7941	0.7886	0.7263	0.7596	AVRG		1.31709		0.7592	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.8293	0.8436	0.8401	0.8352	0.8182	0.7721	0.7864	AVRG		1.22275		0.8178	3	15	0.05	0.99	
Chloroform		1.2733	1.3685	1.3765	1.3489	1.3364	1.2465	1.2646	AVRG		0.75965		1.3164	4	15	0.05	0.99	
Bromochloromethane		0.4063	0.4316	0.4550	0.4413	0.4406	0.4016	0.4129	AVRG		2.34167		0.4270	5	15	0.05	0.99	
1,1,1-Trichloroethane		0.8343	0.8667	0.8453	0.8387	0.8241	0.7683	0.7810	AVRG		1.21562		0.8226	4	15	0.05	0.99	
1,1-Dichloropropene		0.5708	0.5720	0.5553	0.5629	0.5504	0.5199	0.5531	AVRG		1.80211		0.5549	3	15	0.05	0.99	
Carbon Tetrachloride		0.3972	0.4218	0.4075	0.4125	0.3799	0.3636	0.3800	AVRG		2.53386		0.3947	5	15	0.05	0.99	
1,2-Dichloroethane		0.6256	0.6198	0.6291	0.6110	0.5948	0.5729	0.5736	AVRG		1.65605		0.6038	4	15	0.05	0.99	
Benzene		1.7882	1.7616	1.8074	1.7299	1.6851	1.6329	1.6795	AVRG		0.57925		1.7264	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.3990	0.4115	0.4096	0.4132	0.3968	0.3850	0.3947	AVRG		2.49122		0.4014	3	15	0.05	0.99	
1,2-Dichloropropane		0.5647	0.5474	0.5677	0.5523	0.5456	0.5291	0.5437	AVRG		1.81789		0.5501	2	15	0.05	0.99	
Bromodichloromethane		0.5672	0.6019	0.6099	0.5940	0.5904	0.5748	0.5763	AVRG		1.70127		0.5878	3	15	0.05	0.99	
Dibromomethane		0.3032	0.3240	0.3399	0.3399	0.3277	0.3199	0.3185	AVRG		3.07943		0.3247	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.7375	0.7813	0.8383	0.8693	0.8720	0.8145	0.8274	AVRG		1.21944		0.8201	6	15	0.05	0.99	
cis-1,3-Dichloropropene		0.7252	0.7271	0.7560	0.7614	0.7459	0.7062	0.7173	AVRG		1.36212		0.7342	3	15	0.05	0.99	
Toluene		0.9248	0.9871	0.9806	0.9824	0.9295	0.9023	0.8973	AVRG		1.05995		0.9434	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6209	0.6049	0.6451	0.6635	0.6385	0.6239	0.6202	AVRG		1.58477		0.6310	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.2430	0.2460	0.2533	0.2531	0.2435	0.2316	0.2327	AVRG		4.10962		0.2433	4	15	0.05	0.99	
2-Hexanone		0.6570	0.6903	0.7262	0.7392	0.7704	0.7133	0.7105	AVRG		1.39809		0.7153	5	15	0.05	0.99	
1,3-Dichloropropane		0.7761	0.8336	0.8214	0.8173	0.8253	0.7998	0.7916	AVRG		1.23566		0.8093	3	15	0.05	0.99	
Tetrachloroethene		0.4088	0.4323	0.4005	0.4122	0.4108	0.3848	0.4078	AVRG		2.45000		0.4082	3	15	0.05	0.99	
Dibromochloromethane		0.5298	0.5770	0.5724	0.5636	0.5530	0.5344	0.5320	AVRG		1.81240		0.5518	4	15	0.05	0.99	
1,2-Dibromoethane		0.4676	0.4577	0.4738	0.4812	0.4606	0.4551	0.4407	AVRG		2.16265		0.4624	3	15	0.05	0.99	
Chlorobenzene		1.1842	1.2279	1.2123	1.1973	1.1838	1.1045	1.1419	AVRG		0.84828		1.1788	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4408	0.4566	0.4557	0.4523	0.4479	0.4203	0.4228	AVRG		2.26065		0.4424	3	15	0.05	0.99	
Ethylbenzene		2.1001	2.1188	2.0598	1.9904	1.9468	1.7853	1.8375	AVRG		0.50582		1.9770	7	15	0.05	0.99	
m,p-Xylenes	0.7567	0.6981	0.7692	0.7191	0.7241	0.6927	0.6329	0.6319	AVRG		1.42233		0.7031	7	15	0.05	0.99	
o-Xylene		0.7164	0.7450	0.7296	0.7048	0.7170	0.6712	0.6731	AVRG		1.41213		0.7082	4	15	0.05	0.99	
Styrene		1.2580	1.2844	1.2626	1.2740	1.2803	1.2027	1.2082	AVRG		0.79816		1.2529	3	15	0.05	0.99	
Bromoform		0.3755	0.3925	0.4085	0.4147	0.4173	0.3909	0.3955	AVRG		2.50467		0.3993	4	15	0.10	0.99	
Isopropylbenzene		3.6837	3.6725	3.5008	3.7215	3.4584	3.2041	3.1385	AVRG		0.28713		3.4828	7	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.5792	1.6224	1.6354	1.7029	1.6236	1.4975	1.4587	AVRG		0.62951		1.5885	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.2588	1.2442	1.2898	1.2922	1.2425	1.1690	1.1043	AVRG		0.81388		1.2287	6	15	0.05	0.99	
Propylbenzene		4.9115	5.0135	4.8150	5.0145	4.5567	4.1631	4.1555	AVRG		0.21453		4.6614	8	15	0.05	0.99	
Bromobenzene		1.0312	1.0445	1.0950	1.1208	1.0479	0.9769	0.9994	AVRG		0.95684		1.0451	5	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.1579	3.1119	3.1128	3.1543	2.9069	2.7464	2.6411	AVRG		0.33603		2.9759	7	15	0.05	0.99	
2-Chlorotoluene		3.1351	3.1677	3.2980	3.3854	3.0913	2.9162	2.9002	AVRG		0.31973		3.1277	6	15	0.05	0.99	
4-Chlorotoluene		2.9854	3.1038	3.0701	3.1115	2.8395	2.7446	2.7764	AVRG		0.33929		2.9473	5	15	0.05	0.99	
tert-Butylbenzene		2.5297	2.6666	2.4707	2.5724	2.3962	2.1431	2.1653	AVRG		0.41313		2.4206	8	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.0450	3.1108	2.9700	3.2522	3.0054	2.7419	2.7052	AVRG		0.33604		2.9758	7	15	0.05	0.99	
sec-Butylbenzene		4.1444	4.1923	4.0275	4.2048	4.0096	3.5874	3.4813	AVRG		0.25319		3.9496	7	15	0.05	0.99	
para-Isopropyl Toluene		3.0770	3.2743	3.1112	3.2607	2.9427	2.7309	2.7471	AVRG		0.33106		3.0206	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8580	1.9433	1.9394	1.9239	1.8003	1.7044	1.7313	AVRG		0.54261		1.8429	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.8669	1.9023	1.9552	1.9611	1.8581	1.7359	1.7700	AVRG		0.53642		1.8642	5	15	0.05	0.99	
n-Butylbenzene		3.0304	3.1487	3.1099	3.3922	3.1023	2.8202	2.9589	AVRG		0.32464		3.0804	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.7815	1.8405	1.8277	1.8937	1.7893	1.6519	1.7151	AVRG		0.56001		1.7857	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.3052	0.3069	0.3048	0.2996	0.3048	0.2771	0.2848	AVRG		3.36013		0.2976	4	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9320	1.0170	1.0469	1.1221	1.0247	0.9792	1.0472	AVRG		0.97642		1.0241	6	15	0.05	0.99	
Hexachlorobutadiene		0.5596	0.5720	0.5712	0.5913	0.5715	0.5225	0.5526	AVRG		1.77633		0.5630	4	15	0.05	0.99	
Naphthalene		2.3188	2.5958	2.7777	2.9366	2.9060	2.7110	2.9022	AVRG		0.36557		2.7354	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		0.9408	1.0233	1.0105	1.0832	1.0244	0.9815	1.0502	AVRG		0.98401		1.0163	5	15	0.05	0.99	
Dibromofluoromethane					0.6494				AVRG		1.53999		0.6494	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.3563				AVRG		2.80644		0.3563	0	15	0.05	0.99	
Trifluorotoluene	0.5565	0.5669	0.5779	0.5843	0.5822	0.5648	0.5358	0.5703	AVRG		1.76260		0.5673	3	15	0.05	0.99	
Toluene-d8					1.0288				AVRG		0.97202		1.0288	0	15	0.05	0.99	
Bromofluorobenzene					1.1047				AVRG		0.90518		1.1047	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-15	10.00	-16	20.00	13	50.00	8	60.00	6	75.00	-1	100.0	5
Chloromethane			5.000	-3	10.00	-6	20.00	8	50.00	2	60.00	3	75.00	-4	100.0	-2
Vinyl Chloride	2.500	0	5.000	-6	10.00	-3	20.00	12	50.00	2	60.00	3	75.00	-6	100.0	-3
Bromomethane			5.000	-10	10.00	-4	20.00	8	50.00	9	60.00	3	75.00	-2	100.0	-4
Chloroethane			5.000	-4	10.00	1	20.00	8	50.00	7	60.00	0	75.00	-5	100.0	-7
Trichlorofluoromethane			5.000	0	10.00	5	20.00	8	50.00	2	60.00	-2	75.00	-8	100.0	-5
Acetone			5.000	4	10.00	9	20.00	8	50.00	0	60.00	0	75.00	-10	100.0	-11
Freon 113			5.000	2	10.00	9	20.00	1	50.00	4	60.00	-2	75.00	-10	100.0	-3
1,1-Dichloroethene			5.000	6	10.00	2	20.00	3	50.00	2	60.00	-2	75.00	-7	100.0	-3
Methylene Chloride			5.000	0	10.00	1	20.00	6	50.00	3	60.00	0	75.00	-7	100.0	-4
Carbon Disulfide			5.000	2	10.00	3	20.00	5	50.00	1	60.00	-1	75.00	-7	100.0	-3
MTBE			5.000	1	10.00	2	20.00	5	50.00	4	60.00	1	75.00	-6	100.0	-6
trans-1,2-Dichloroethene			5.000	3	10.00	2	20.00	6	50.00	1	60.00	0	75.00	-7	100.0	-5
Vinyl Acetate					10.00	-25	20.00	4	50.00	7	60.00	7	75.00	2	100.0	5
1,1-Dichloroethane			5.000	3	10.00	5	20.00	3	50.00	2	60.00	-1	75.00	-9	100.0	-3
2-Butanone			5.000	-6	10.00	-2	20.00	2	50.00	4	60.00	7	75.00	-3	100.0	-2
2,2-Dichloropropane			5.000	-6	10.00	-1	20.00	2	50.00	5	60.00	4	75.00	-4	100.0	0
cis-1,2-Dichloroethene			5.000	1	10.00	3	20.00	3	50.00	2	60.00	0	75.00	-6	100.0	-4
Chloroform			5.000	-3	10.00	4	20.00	5	50.00	2	60.00	2	75.00	-5	100.0	-4
Bromochloromethane			5.000	-5	10.00	1	20.00	7	50.00	3	60.00	3	75.00	-6	100.0	-3
1,1,1-Trichloroethane			5.000	1	10.00	5	20.00	3	50.00	2	60.00	0	75.00	-7	100.0	-5
1,1-Dichloropropene			5.000	3	10.00	3	20.00	0	50.00	1	60.00	-1	75.00	-6	100.0	0
Carbon Tetrachloride			5.000	1	10.00	7	20.00	3	50.00	5	60.00	-4	75.00	-8	100.0	-4
1,2-Dichloroethane			5.000	4	10.00	3	20.00	4	50.00	1	60.00	-1	75.00	-5	100.0	-5
Benzene			5.000	4	10.00	2	20.00	5	50.00	0	60.00	-2	75.00	-5	100.0	-3
Trichloroethene			5.000	-1	10.00	3	20.00	2	50.00	3	60.00	-1	75.00	-4	100.0	-2
1,2-Dichloropropane			5.000	3	10.00	0	20.00	3	50.00	0	60.00	-1	75.00	-4	100.0	-1
Bromodichloromethane			5.000	-4	10.00	2	20.00	4	50.00	1	60.00	0	75.00	-2	100.0	-2
Dibromomethane			5.000	-7	10.00	0	20.00	5	50.00	5	60.00	1	75.00	-1	100.0	-2
4-Methyl-2-Pentanone			5.000	-10	10.00	-5	20.00	2	50.00	6	60.00	6	75.00	-1	100.0	1
cis-1,3-Dichloropropene			5.000	-1	10.00	-1	20.00	3	50.00	4	60.00	2	75.00	-4	100.0	-2
Toluene			5.000	-2	10.00	5	20.00	4	50.00	4	60.00	-1	75.00	-4	100.0	-5
trans-1,3-Dichloropropene			5.000	-2	10.00	-4	20.00	2	50.00	5	60.00	1	75.00	-1	100.0	-2
1,1,2-Trichloroethane			5.000	0	10.00	1	20.00	4	50.00	4	60.00	0	75.00	-5	100.0	-4
2-Hexanone			5.000	-8	10.00	-3	20.00	2	50.00	3	60.00	8	75.00	0	100.0	-1
1,3-Dichloropropane			5.000	-4	10.00	3	20.00	1	50.00	1	60.00	2	75.00	-1	100.0	-2
Tetrachloroethene			5.000	0	10.00	6	20.00	-2	50.00	1	60.00	1	75.00	-6	100.0	0
Dibromochloromethane			5.000	-4	10.00	5	20.00	4	50.00	2	60.00	0	75.00	-3	100.0	-4
1,2-Dibromoethane			5.000	1	10.00	-1	20.00	2	50.00	4	60.00	0	75.00	-2	100.0	-5
Chlorobenzene			5.000	0	10.00	4	20.00	3	50.00	2	60.00	0	75.00	-6	100.0	-3
1,1,1,2-Tetrachloroethane			5.000	0	10.00	3	20.00	3	50.00	2	60.00	1	75.00	-5	100.0	-4
Ethylbenzene			5.000	6	10.00	7	20.00	4	50.00	1	60.00	-2	75.00	-10	100.0	-7

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	8	10.00	-1	20.00	9	40.00	2	100.0	3	120.0	-1	150.0	-10	200.0	-10
o-Xylene			5.000	1	10.00	5	20.00	3	50.00	0	60.00	1	75.00	-5	100.0	-5
Styrene			5.000	0	10.00	3	20.00	1	50.00	2	60.00	2	75.00	-4	100.0	-4
Bromoform			5.000	-6	10.00	-2	20.00	2	50.00	4	60.00	5	75.00	-2	100.0	-1
Isopropylbenzene			5.000	6	10.00	5	20.00	1	50.00	7	60.00	-1	75.00	-8	100.0	-10
1,1,2,2-Tetrachloroethane			5.000	-1	10.00	2	20.00	3	50.00	7	60.00	2	75.00	-6	100.0	-8
1,2,3-Trichloropropane			5.000	2	10.00	1	20.00	5	50.00	5	60.00	1	75.00	-5	100.0	-10
Propylbenzene			5.000	5	10.00	8	20.00	3	50.00	8	60.00	-2	75.00	-11	100.0	-11
Bromobenzene			5.000	-1	10.00	0	20.00	5	50.00	7	60.00	0	75.00	-7	100.0	-4
1,3,5-Trimethylbenzene			5.000	6	10.00	5	20.00	5	50.00	6	60.00	-2	75.00	-8	100.0	-11
2-Chlorotoluene			5.000	0	10.00	1	20.00	5	50.00	8	60.00	-1	75.00	-7	100.0	-7
4-Chlorotoluene			5.000	1	10.00	5	20.00	4	50.00	6	60.00	-4	75.00	-7	100.0	-6
tert-Butylbenzene			5.000	5	10.00	10	20.00	2	50.00	6	60.00	-1	75.00	-11	100.0	-11
1,2,4-Trimethylbenzene			5.000	2	10.00	5	20.00	0	50.00	9	60.00	1	75.00	-8	100.0	-9
sec-Butylbenzene			5.000	5	10.00	6	20.00	2	50.00	6	60.00	2	75.00	-9	100.0	-12
para-Isopropyl Toluene			5.000	2	10.00	8	20.00	3	50.00	8	60.00	-3	75.00	-10	100.0	-9
1,3-Dichlorobenzene			5.000	1	10.00	5	20.00	5	50.00	4	60.00	-2	75.00	-8	100.0	-6
1,4-Dichlorobenzene			5.000	0	10.00	2	20.00	5	50.00	5	60.00	0	75.00	-7	100.0	-5
n-Butylbenzene			5.000	-2	10.00	2	20.00	1	50.00	10	60.00	1	75.00	-8	100.0	-4
1,2-Dichlorobenzene			5.000	0	10.00	3	20.00	2	50.00	6	60.00	0	75.00	-7	100.0	-4
1,2-Dibromo-3-Chloropropane			5.000	3	10.00	3	20.00	2	50.00	1	60.00	2	75.00	-7	100.0	-4
1,2,4-Trichlorobenzene			5.000	-9	10.00	-1	20.00	2	50.00	10	60.00	0	75.00	-4	100.0	2
Hexachlorobutadiene			5.000	-1	10.00	2	20.00	1	50.00	5	60.00	2	75.00	-7	100.0	-2
Naphthalene			5.000	-15	10.00	-5	20.00	2	50.00	7	60.00	6	75.00	-1	100.0	6
1,2,3-Trichlorobenzene			5.000	-7	10.00	1	20.00	-1	50.00	7	60.00	1	75.00	-3	100.0	3
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene	2.500	-2	5.000	0	10.00	2	20.00	3	50.00	3	60.00	0	75.00	-6	100.0	1
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

457437048001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Name : 826GOX6S
Calnum : 457437048001 Cal Date : 30-OCT-2007 Type : SOIL

ICV 457437048020 (fju20 30-OCT-2007) stds: S7415 (10000X), S7444 (1000X)
ICV 457437048021 (fju21 30-OCT-2007) stds: S7480 (10000X), S7498 (10000X), S7444 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	457437048020	0.5677	0.6702	25.00	29.52	ug/L	18	20	
Chloromethane	457437048020	1.0774	1.1481	25.00	26.64	ug/L	7	20	
Vinyl Chloride	457437048020	0.8692	0.8598	25.00	24.73	ug/L	-1	20	
Bromomethane	457437048020	0.3796	0.3719	25.00	24.49	ug/L	-2	20	
Chloroethane	457437048020	0.4249	0.4128	25.00	24.28	ug/L	-3	20	
Trichlorofluoromethane	457437048020	0.8161	0.7975	25.00	24.43	ug/L	-2	20	
Acetone	457437048021	0.5077	0.4678	25.00	23.04	ug/L	-8	30	
Freon 113	457437048021	0.6874	0.5766	25.00	20.97	ug/L	-16	20	
1,1-Dichloroethene	457437048021	0.5835	0.5637	25.00	24.15	ug/L	-3	20	
Methylene Chloride	457437048021	0.8858	0.9055	25.00	25.55	ug/L	2	20	
Carbon Disulfide	457437048021	2.5954	2.2413	25.00	21.59	ug/L	-14	20	
MTBE	457437048021	2.2794	2.1453	25.00	23.53	ug/L	-6	20	
trans-1,2-Dichloroethene	457437048021	0.7223	0.6725	25.00	23.28	ug/L	-7	20	
Vinyl Acetate	457437048021	2.1249	1.7340	25.00	20.40	ug/L	-18	30	
1,1-Dichloroethane	457437048021	1.5254	1.4580	25.00	23.89	ug/L	-4	20	
2-Butanone	457437048021	0.7598	0.6752	25.00	22.22	ug/L	-11	30	
2,2-Dichloropropane	457437048021	0.7592	0.6759	25.00	22.25	ug/L	-11	20	
cis-1,2-Dichloroethene	457437048021	0.8178	0.8096	25.00	24.75	ug/L	-1	20	
Chloroform	457437048021	1.3164	1.2723	25.00	24.16	ug/L	-3	20	
Bromochloromethane	457437048021	0.4270	0.4309	25.00	25.23	ug/L	1	20	
1,1,1-Trichloroethane	457437048021	0.8226	0.7588	25.00	23.06	ug/L	-8	20	
1,1-Dichloropropene	457437048021	0.5549	0.5434	25.00	24.48	ug/L	-2	20	
Carbon Tetrachloride	457437048021	0.3947	0.3661	25.00	23.19	ug/L	-7	20	
1,2-Dichloroethane	457437048021	0.6038	0.5769	25.00	23.88	ug/L	-4	20	
Benzene	457437048021	1.7264	1.7408	25.00	25.21	ug/L	1	20	
Trichloroethene	457437048021	0.4014	0.3979	25.00	24.78	ug/L	-1	20	
1,2-Dichloropropane	457437048021	0.5501	0.5434	25.00	24.70	ug/L	-1	20	
Bromodichloromethane	457437048021	0.5878	0.5885	25.00	25.03	ug/L	0	20	
Dibromomethane	457437048021	0.3247	0.3297	25.00	25.38	ug/L	2	20	
4-Methyl-2-Pentanone	457437048021	0.8201	0.7989	25.00	24.35	ug/L	-3	30	
cis-1,3-Dichloropropene	457437048021	0.7342	0.7337	25.00	24.99	ug/L	0	20	
Toluene	457437048021	0.9434	0.9396	25.00	24.90	ug/L	0	20	
trans-1,3-Dichloropropene	457437048021	0.6310	0.5882	25.00	23.31	ug/L	-7	20	
1,1,2-Trichloroethane	457437048021	0.2433	0.2486	25.00	25.54	ug/L	2	20	
2-Hexanone	457437048021	0.7153	0.6865	25.00	24.00	ug/L	-4	30	
1,3-Dichloropropane	457437048021	0.8093	0.8311	25.00	25.67	ug/L	3	20	
Tetrachloroethene	457437048021	0.4082	0.4017	25.00	24.61	ug/L	-2	20	
Dibromochloromethane	457437048021	0.5518	0.5246	25.00	23.77	ug/L	-5	20	
1,2-Dibromoethane	457437048021	0.4624	0.4532	25.00	24.50	ug/L	-2	20	
Chlorobenzene	457437048021	1.1788	1.1662	25.00	24.73	ug/L	-1	20	
1,1,1,2-Tetrachloroethane	457437048021	0.4424	0.4382	25.00	24.77	ug/L	-1	20	
Ethylbenzene	457437048021	1.9770	1.9871	25.00	25.13	ug/L	1	20	
m,p-Xylenes	457437048021	0.7031	0.6993	50.00	49.73	ug/L	-1	20	
o-Xylene	457437048021	0.7082	0.6981	25.00	24.64	ug/L	-1	20	
Styrene	457437048021	1.2529	1.2673	25.00	25.29	ug/L	1	20	
Bromoform	457437048021	0.3993	0.3984	25.00	24.95	ug/L	0	20	
Isopropylbenzene	457437048021	3.4828	3.0953	25.00	22.22	ug/L	-11	20	

: 22099

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	457437048021	1.5885	1.5201	25.00	23.92	ug/L	-4	20	
1,2,3-Trichloropropane	457437048021	1.2287	1.1557	25.00	23.52	ug/L	-6	20	
Propylbenzene	457437048021	4.6614	4.4572	25.00	23.90	ug/L	-4	20	
Bromobenzene	457437048021	1.0451	1.0693	25.00	25.58	ug/L	2	20	
1,3,5-Trimethylbenzene	457437048021	2.9759	2.8797	25.00	24.19	ug/L	-3	20	
2-Chlorotoluene	457437048021	3.1277	3.1246	25.00	24.98	ug/L	0	20	
4-Chlorotoluene	457437048021	2.9473	2.7292	25.00	23.15	ug/L	-7	20	
tert-Butylbenzene	457437048021	2.4206	2.3113	25.00	23.87	ug/L	-5	20	
1,2,4-Trimethylbenzene	457437048021	2.9758	3.0098	25.00	25.29	ug/L	1	20	
sec-Butylbenzene	457437048021	3.9496	3.7783	25.00	23.92	ug/L	-4	20	
para-Isopropyl Toluene	457437048021	3.0206	2.8190	25.00	23.33	ug/L	-7	20	
1,3-Dichlorobenzene	457437048021	1.8429	1.7093	25.00	23.19	ug/L	-7	20	
1,4-Dichlorobenzene	457437048021	1.8642	1.7564	25.00	23.55	ug/L	-6	20	
n-Butylbenzene	457437048021	3.0804	2.8291	25.00	22.96	ug/L	-8	20	
1,2-Dichlorobenzene	457437048021	1.7857	1.7425	25.00	24.40	ug/L	-2	20	
1,2-Dibromo-3-Chloropropane	457437048021	0.2976	0.2717	25.00	22.83	ug/L	-9	20	
1,2,4-Trichlorobenzene	457437048021	1.0241	0.9461	25.00	23.10	ug/L	-8	20	
Hexachlorobutadiene	457437048021	0.5630	0.5470	25.00	24.29	ug/L	-3	20	
Naphthalene	457437048021	2.7354	2.5660	25.00	23.45	ug/L	-6	20	
1,2,3-Trichlorobenzene	457437048021	1.0163	0.9974	25.00	24.54	ug/L	-2	20	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 MSVOA Soil: EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 887436786002 Date : 30-OCT-2007 17:42 Type : SOIL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	lju14	887436786014	2.5PPB	30-OCT-2007 17:42	S7425 (20000X), S7424 (20000X), S7365 (5000X)
L2	lju15	887436786015	5PPB	30-OCT-2007 18:14	S7425 (10000X), S7424 (10000X), S7365 (5000X)
L3	lju16	887436786016	10PPB	30-OCT-2007 18:47	S7425 (5000X), S7424 (5000X), S7365 (5000X)
L4	lju17	887436786017	20PPB	30-OCT-2007 19:19	S7417 (25000X), S7531 (25000X), S7365 (5000X)
L5	lju18	887436786018	50PPB	30-OCT-2007 19:51	S7417 (10000X), S7531 (10000X), S7365 (5000X)
L6	lju19	887436786019	60PPB	30-OCT-2007 20:23	S7417 (8333X), S7531 (8333X), S7365 (5000X)
L7	lju20	887436786020	75PPB	30-OCT-2007 20:56	S7417 (6667X), S7531 (6667X), S7365 (5000X)
L8	lju21	887436786021	100PPB	30-OCT-2007 21:28	S7417 (5000X), S7531 (5000X), S7365 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6356	0.5744	0.7385	0.8076	0.8088	0.8065	0.7544	AVRG		1.36562		0.7323	13	15	0.05	0.99	
Chloromethane		1.3230	1.2720	1.3574	1.3839	1.3471	1.3262	1.2206	AVRG		0.75837		1.3186	4	15	0.10	0.99	
Vinyl Chloride	1.3841	1.2800	1.2958	1.3439	1.4293	1.3724	1.3850	1.2895	AVRG		0.74212		1.3475	4	15	0.05	0.99	
Bromomethane		0.7816	0.7795	0.7243	0.7960	0.7932	0.7962	0.7472	AVRG		1.29199		0.7740	4	15	0.05	0.99	
Chloroethane		0.8583	0.8303	0.7991	0.8628	0.8445	0.8419	0.7758	AVRG		1.20426		0.8304	4	15	0.05	0.99	
Trichlorofluoromethane		1.6479	1.6562	1.5592	1.7356	1.7086	1.7288	1.6252	AVRG		0.60026		1.6659	4	15	0.05	0.99	
Acetone			0.2710	0.2658	0.2126	0.2399	0.2079	0.1885	AVRG		4.33023		0.2309	14	15	0.05	0.99	
Freon 113		1.0336	0.8471	0.7361	0.7825	0.7769	0.7636	0.7141	AVRG		1.23807		0.8077	13	15	0.05	0.99	
1,1-Dichloroethene		0.7866	0.5853	0.5145	0.5881	0.6054	0.6056	0.5888	AVRG		1.63765		0.6106	14	15	0.05	0.99	
Methylene Chloride			0.8144	0.7279	0.7450	0.7498	0.7380	0.6923	AVRG		1.34311		0.7445	5	15	0.05	0.99	
Carbon Disulfide		2.6215	2.5239	2.2249	2.3761	2.3561	2.3064	2.1720	AVRG		0.42217		2.3687	7	15	0.05	0.99	
MTBE		1.4417	1.4406	1.4464	1.6811	1.7151	1.7485	1.7119	AVRG		0.62583		1.5979	9	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6835	0.7132	0.6665	0.7078	0.7282	0.7248	0.6937	AVRG		1.42345		0.7025	3	15	0.05	0.99	
Vinyl Acetate		0.6667	0.7004	0.9370	1.0952	1.1373	1.1559	1.1318	LINR	3.29423	0.84369		0.9749	0.999	15	0.05	0.99	
1,1-Dichloroethane		1.4451	1.3960	1.2843	1.3630	1.3760	1.3553	1.2916	AVRG		0.73598		1.3587	4	15	0.10	0.99	
2-Butanone			0.2877	0.2674	0.2914	0.2920	0.3063	0.2963	AVRG		3.44618		0.2902	4	15	0.05	0.99	
2,2-Dichloropropane		1.1173	1.0992	1.0082	1.0917	1.1108	1.1017	1.0677	AVRG		0.92146		1.0852	3	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6665	0.6863	0.6777	0.7521	0.7807	0.7557	0.7345	AVRG		1.38517		0.7219	6	15	0.05	0.99	
Chloroform		1.3775	1.3748	1.2162	1.2723	1.2932	1.2725	1.2366	AVRG		0.77408		1.2919	5	15	0.05	0.99	
Bromochloromethane		0.3421	0.3475	0.3221	0.3390	0.3474	0.3454	0.3390	AVRG		2.93813		0.3404	3	15	0.05	0.99	
1,1,1-Trichloroethane		1.2560	1.2266	1.0895	1.1358	1.1688	1.1369	1.1025	AVRG		0.86249		1.1594	5	15	0.05	0.99	
1,1-Dichloropropene		0.5890	0.6140	0.5803	0.6869	0.7046	0.6977	0.6820	AVRG		1.53688		0.6507	8	15	0.05	0.99	
Carbon Tetrachloride		0.7121	0.7190	0.6299	0.7003	0.7014	0.6895	0.6737	AVRG		1.45052		0.6894	4	15	0.05	0.99	
1,2-Dichloroethane		0.6784	0.6419	0.5973	0.6131	0.6180	0.6047	0.5891	AVRG		1.61199		0.6203	5	15	0.05	0.99	
Benzene		2.2478	2.2492	1.9969	2.1758	2.1683	2.0912	1.9895	AVRG		0.46921		2.1312	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4757	0.4690	0.4415	0.4913	0.5008	0.4973	0.4848	AVRG		2.08303		0.4801	4	15	0.05	0.99	
1,2-Dichloropropane		0.4802	0.4848	0.4662	0.5074	0.5096	0.5019	0.4953	AVRG		2.03169		0.4922	3	15	0.05	0.99	
Bromodichloromethane		0.6196	0.6119	0.5542	0.6125	0.6161	0.6134	0.6016	AVRG		1.65506		0.6042	4	15	0.05	0.99	
Dibromomethane		0.2575	0.2564	0.2301	0.2448	0.2497	0.2449	0.2389	AVRG		4.06439		0.2460	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.3513	0.3956	0.4153	0.4653	0.4673	0.4853	0.4728	AVRG		2.29287		0.4361	11	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6185	0.6744	0.6721	0.7726	0.7833	0.7780	0.7608	AVRG		1.38350		0.7228	9	15	0.05	0.99	
Toluene		1.3914	1.4214	1.2814	1.4173	1.4415	1.4047	1.3572	AVRG		0.72055		1.3878	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5481	0.5930	0.5715	0.6572	0.6817	0.6860	0.6806	AVRG		1.58440		0.6312	9	15	0.05	0.99	
1,1,2-Trichloroethane		0.2325	0.2082	0.1986	0.2126	0.2138	0.2115	0.2089	AVRG		4.71063		0.2123	5	15	0.05	0.99	
2-Hexanone			0.2640	0.2820	0.3340	0.3390	0.3618	0.3474	AVRG		3.11156		0.3214	12	15	0.05	0.99	
1,3-Dichloropropane		0.7565	0.7457	0.7367	0.7512	0.7751	0.7619	0.7293	AVRG		1.33172		0.7509	2	15	0.05	0.99	
Tetrachloroethene		0.6162	0.6110	0.5551	0.6068	0.6206	0.6055	0.5934	AVRG		1.66335		0.6012	4	15	0.05	0.99	
Dibromochloromethane		0.4285	0.4330	0.4063	0.4398	0.4624	0.4534	0.4426	AVRG		2.28318		0.4380	4	15	0.05	0.99	
1,2-Dibromoethane		0.3431	0.3398	0.3182	0.3615	0.3650	0.3724	0.3626	AVRG		2.84254		0.3518	5	15	0.05	0.99	
Chlorobenzene		1.6946	1.7050	1.5384	1.6412	1.6838	1.6274	1.5720	AVRG		0.61070		1.6375	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.5745	0.5778	0.5115	0.5429	0.5637	0.5536	0.5376	AVRG		1.81266		0.5517	4	15	0.05	0.99	
Ethylbenzene		2.6736	2.9031	2.7050	2.9936	3.0521	2.9643	2.7765	AVRG		0.34881		2.8669	5	15	0.05	0.99	
m,p-Xylenes	0.9913	1.0776	1.1954	1.1107	1.2275	1.2596	1.2186	1.1631	AVRG		0.86543		1.1555	8	15	0.05	0.99	
o-Xylene		0.8571	0.9888	0.9634	1.1565	1.1982	1.1929	1.1680	AVRG		0.93025		1.0750	13	15	0.05	0.99	
Styrene		1.3964	1.6473	1.6136	1.8679	1.9458	1.9370	1.8823	AVRG		0.56956		1.7558	12	15	0.05	0.99	
Bromoform		0.2947	0.3096	0.3016	0.3363	0.3510	0.3603	0.3596	AVRG		3.02622		0.3304	9	15	0.10	0.99	
Isopropylbenzene		3.4178	3.8897	3.7870	4.4566	4.5843	4.3797	4.2705	AVRG		0.24318		4.1123	10	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9979	1.0049	0.9140	0.9409	0.9597	0.9293	0.9397	AVRG		1.04692		0.9552	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.9782	1.0343	0.9307	0.9640	0.9860	0.9705	0.9695	AVRG		1.02441		0.9762	3	15	0.05	0.99	
Propylbenzene		5.1030	5.6811	5.2346	5.8409	5.9023	5.4987	5.2158	AVRG		0.18193		5.4966	6	15	0.05	0.99	
Bromobenzene		1.1249	1.1101	1.0029	1.0932	1.1339	1.1025	1.1039	AVRG		0.91248		1.0959	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.3189	3.7621	3.5999	4.1254	4.2307	4.0306	3.9281	AVRG		0.25930		3.8565	8	15	0.05	0.99	
2-Chlorotoluene		3.6893	3.8899	3.5291	3.8769	3.9657	3.7628	3.7224	AVRG		0.26479		3.7766	4	15	0.05	0.99	
4-Chlorotoluene		3.0536	3.2984	3.0339	3.4276	3.5314	3.3519	3.3091	AVRG		0.30427		3.2866	6	15	0.05	0.99	
tert-Butylbenzene		2.7770	3.2554	3.1459	3.6803	3.7686	3.6167	3.5396	AVRG		0.29432		3.3976	10	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.5010	4.0463	3.7947	4.2558	4.3307	4.1229	3.9870	AVRG		0.24966		4.0055	7	15	0.05	0.99	
sec-Butylbenzene		4.7047	5.2731	5.0313	5.7427	5.8009	5.4711	5.1993	AVRG		0.18806		5.3176	7	15	0.05	0.99	
para-Isopropyl Toluene		3.7172	4.4274	4.2347	4.8549	4.9170	4.6837	4.5072	AVRG		0.22334		4.4774	9	15	0.05	0.99	
1,3-Dichlorobenzene		2.3472	2.3573	2.1469	2.3419	2.4125	2.2924	2.2964	AVRG		0.43224		2.3135	4	15	0.05	0.99	
1,4-Dichlorobenzene		2.5887	2.5265	2.2669	2.4073	2.4638	2.3332	2.3224	AVRG		0.41399		2.4155	5	15	0.05	0.99	
n-Butylbenzene		3.6688	4.1918	4.0838	4.6960	4.7569	4.4909	4.3248	AVRG		0.23169		4.3162	9	15	0.05	0.99	
1,2-Dichlorobenzene		2.0585	2.1184	1.9770	2.1276	2.1951	2.1074	2.0900	AVRG		0.47703		2.0963	3	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1785	0.1768	0.1750	0.1916	0.1915	0.1941	0.1963	AVRG		5.36879		0.1863	5	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.1929	1.2856	1.2655	1.5060	1.5614	1.5322	1.5548	AVRG		0.70719		1.4140	11	15	0.05	0.99	
Hexachlorobutadiene		0.9433	1.0042	0.9117	1.0054	1.0391	0.9951	0.9950	AVRG		1.01539		0.9848	4	15	0.05	0.99	
Naphthalene		2.0541	2.3485	2.6654	3.2712	3.3408	3.3679	3.3888	LINR	3.27229	0.28497		2.9195	0.999	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		1.2139	1.2834	1.2499	1.4503	1.4943	1.4713	1.4786	AVRG		0.72601		1.3774	9	15	0.05	0.99	
Dibromofluoromethane	0.4766	0.4677	0.4674	0.4605	0.4702	0.4567	0.4631	0.4528	AVRG		2.15348		0.4644	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3758	0.3907	0.3731	0.3786	0.3880	0.3791	0.3832	0.3761	AVRG		2.62751		0.3806	2	15	0.05	0.99	
Trifluorotoluene		0.8856	0.9148	0.7905	0.9040	0.9161	0.9103	0.8820	AVRG		1.12844		0.8862	5	15	0.05	0.99	
Toluene-d8	1.2230	1.2255	1.2302	1.2396	1.2390	1.2312	1.2333	1.2080	AVRG		0.81385		1.2287	1	15	0.05	0.99	
Bromofluorobenzene	0.8058	0.7996	0.8126	0.8158	0.8438	0.8579	0.8431	0.8601	AVRG		1.20508		0.8298	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-13	10.00	-22	20.00	1	50.00	10	60.00	10	75.00	10	100.0	3
Chloromethane			5.000	0	10.00	-4	20.00	3	50.00	5	60.00	2	75.00	1	100.0	-7
Vinyl Chloride	2.500	3	5.000	-5	10.00	-4	20.00	0	50.00	6	60.00	2	75.00	3	100.0	-4
Bromomethane			5.000	1	10.00	1	20.00	-6	50.00	3	60.00	2	75.00	3	100.0	-3
Chloroethane			5.000	3	10.00	0	20.00	-4	50.00	4	60.00	2	75.00	1	100.0	-7
Trichlorofluoromethane			5.000	-1	10.00	-1	20.00	-6	50.00	4	60.00	3	75.00	4	100.0	-2
Acetone					10.00	17	20.00	15	50.00	-8	60.00	4	75.00	-10	100.0	-18
Freon 113			5.000	28	10.00	5	20.00	-9	50.00	-3	60.00	-4	75.00	-5	100.0	-12
1,1-Dichloroethene			5.000	29	10.00	-4	20.00	-16	50.00	-4	60.00	-1	75.00	-1	100.0	-4
Methylene Chloride					10.00	9	20.00	-2	50.00	0	60.00	1	75.00	-1	100.0	-7
Carbon Disulfide			5.000	11	10.00	7	20.00	-6	50.00	0	60.00	-1	75.00	-3	100.0	-8
MTBE			5.000	-10	10.00	-10	20.00	-9	50.00	5	60.00	7	75.00	9	100.0	7
trans-1,2-Dichloroethene			5.000	-3	10.00	2	20.00	-5	50.00	1	60.00	4	75.00	3	100.0	-1
Vinyl Acetate			5.000	22	10.00	-8	20.00	-4	50.00	-1	60.00	1	75.00	2	100.0	-1
1,1-Dichloroethane			5.000	6	10.00	3	20.00	-5	50.00	0	60.00	1	75.00	0	100.0	-5
2-Butanone					10.00	-1	20.00	-8	50.00	0	60.00	1	75.00	6	100.0	2
2,2-Dichloropropane			5.000	3	10.00	1	20.00	-7	50.00	1	60.00	2	75.00	2	100.0	-2
cis-1,2-Dichloroethene			5.000	-8	10.00	-5	20.00	-6	50.00	4	60.00	8	75.00	5	100.0	2
Chloroform			5.000	7	10.00	6	20.00	-6	50.00	-2	60.00	0	75.00	-2	100.0	-4
Bromochloromethane			5.000	1	10.00	2	20.00	-5	50.00	0	60.00	2	75.00	1	100.0	0
1,1,1-Trichloroethane			5.000	8	10.00	6	20.00	-6	50.00	-2	60.00	1	75.00	-2	100.0	-5
1,1-Dichloropropene			5.000	-9	10.00	-6	20.00	-11	50.00	6	60.00	8	75.00	7	100.0	5
Carbon Tetrachloride			5.000	3	10.00	4	20.00	-9	50.00	2	60.00	2	75.00	0	100.0	-2
1,2-Dichloroethane			5.000	9	10.00	3	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-5
Benzene			5.000	5	10.00	6	20.00	-6	50.00	2	60.00	2	75.00	-2	100.0	-7
Trichloroethene			5.000	-1	10.00	-2	20.00	-8	50.00	2	60.00	4	75.00	4	100.0	1
1,2-Dichloropropane			5.000	-2	10.00	-1	20.00	-5	50.00	3	60.00	4	75.00	2	100.0	1
Bromodichloromethane			5.000	3	10.00	1	20.00	-8	50.00	1	60.00	2	75.00	2	100.0	0
Dibromomethane			5.000	5	10.00	4	20.00	-6	50.00	-1	60.00	1	75.00	0	100.0	-3
4-Methyl-2-Pentanone			5.000	-19	10.00	-9	20.00	-5	50.00	7	60.00	7	75.00	11	100.0	8
cis-1,3-Dichloropropene			5.000	-14	10.00	-7	20.00	-7	50.00	7	60.00	8	75.00	8	100.0	5
Toluene			5.000	0	10.00	2	20.00	-8	50.00	2	60.00	4	75.00	1	100.0	-2
trans-1,3-Dichloropropene			5.000	-13	10.00	-6	20.00	-9	50.00	4	60.00	8	75.00	9	100.0	8
1,1,2-Trichloroethane			5.000	10	10.00	-2	20.00	-6	50.00	0	60.00	1	75.00	0	100.0	-2
2-Hexanone					10.00	-18	20.00	-12	50.00	4	60.00	5	75.00	13	100.0	8
1,3-Dichloropropane			5.000	1	10.00	-1	20.00	-2	50.00	0	60.00	3	75.00	1	100.0	-3
Tetrachloroethene			5.000	2	10.00	2	20.00	-8	50.00	1	60.00	3	75.00	1	100.0	-1
Dibromochloromethane			5.000	-2	10.00	-1	20.00	-7	50.00	0	60.00	6	75.00	4	100.0	1
1,2-Dibromoethane			5.000	-2	10.00	-3	20.00	-10	50.00	3	60.00	4	75.00	6	100.0	3
Chlorobenzene			5.000	3	10.00	4	20.00	-6	50.00	0	60.00	3	75.00	-1	100.0	-4
1,1,1,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-7	50.00	-2	60.00	2	75.00	0	100.0	-3
Ethylbenzene			5.000	-7	10.00	1	20.00	-6	50.00	4	60.00	6	75.00	3	100.0	-3

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	-14	10.00	-7	20.00	3	40.00	-4	100.0	6	120.0	9	150.0	5	200.0	1
o-Xylene			5.000	-20	10.00	-8	20.00	-10	50.00	8	60.00	11	75.00	11	100.0	9
Styrene			5.000	-20	10.00	-6	20.00	-8	50.00	6	60.00	11	75.00	10	100.0	7
Bromoform			5.000	-11	10.00	-6	20.00	-9	50.00	2	60.00	6	75.00	9	100.0	9
Isopropylbenzene			5.000	-17	10.00	-5	20.00	-8	50.00	8	60.00	11	75.00	7	100.0	4
1,1,2,2-Tetrachloroethane			5.000	4	10.00	5	20.00	-4	50.00	-1	60.00	0	75.00	-3	100.0	-2
1,2,3-Trichloropropane			5.000	0	10.00	6	20.00	-5	50.00	-1	60.00	1	75.00	-1	100.0	-1
Propylbenzene			5.000	-7	10.00	3	20.00	-5	50.00	6	60.00	7	75.00	0	100.0	-5
Bromobenzene			5.000	3	10.00	1	20.00	-8	50.00	0	60.00	3	75.00	1	100.0	1
1,3,5-Trimethylbenzene			5.000	-14	10.00	-2	20.00	-7	50.00	7	60.00	10	75.00	5	100.0	2
2-Chlorotoluene			5.000	-2	10.00	3	20.00	-7	50.00	3	60.00	5	75.00	0	100.0	-1
4-Chlorotoluene			5.000	-7	10.00	0	20.00	-8	50.00	4	60.00	7	75.00	2	100.0	1
tert-Butylbenzene			5.000	-18	10.00	-4	20.00	-7	50.00	8	60.00	11	75.00	6	100.0	4
1,2,4-Trimethylbenzene			5.000	-13	10.00	1	20.00	-5	50.00	6	60.00	8	75.00	3	100.0	0
sec-Butylbenzene			5.000	-12	10.00	-1	20.00	-5	50.00	8	60.00	9	75.00	3	100.0	-2
para-Isopropyl Toluene			5.000	-17	10.00	-1	20.00	-5	50.00	8	60.00	10	75.00	5	100.0	1
1,3-Dichlorobenzene			5.000	1	10.00	2	20.00	-7	50.00	1	60.00	4	75.00	-1	100.0	-1
1,4-Dichlorobenzene			5.000	7	10.00	5	20.00	-6	50.00	0	60.00	2	75.00	-3	100.0	-4
n-Butylbenzene			5.000	-15	10.00	-3	20.00	-5	50.00	9	60.00	10	75.00	4	100.0	0
1,2-Dichlorobenzene			5.000	-2	10.00	1	20.00	-6	50.00	1	60.00	5	75.00	1	100.0	0
1,2-Dibromo-3-Chloropropane			5.000	-4	10.00	-5	20.00	-6	50.00	3	60.00	3	75.00	4	100.0	5
1,2,4-Trichlorobenzene			5.000	-16	10.00	-9	20.00	-11	50.00	7	60.00	10	75.00	8	100.0	10
Hexachlorobutadiene			5.000	-4	10.00	2	20.00	-7	50.00	2	60.00	6	75.00	1	100.0	1
Naphthalene			5.000	24	10.00	0	20.00	-8	50.00	0	60.00	1	75.00	0	100.0	0
1,2,3-Trichlorobenzene			5.000	-12	10.00	-7	20.00	-9	50.00	5	60.00	8	75.00	7	100.0	7
Dibromofluoromethane	50.00	3	50.00	1	50.00	1	50.00	-1	50.00	1	50.00	-2	50.00	0	50.00	-2
1,2-Dichloroethane-d4	50.00	-1	50.00	3	50.00	-2	50.00	-1	50.00	2	50.00	0	50.00	1	50.00	-1
Trifluorotoluene			5.000	0	10.00	3	20.00	-11	50.00	2	60.00	3	75.00	3	100.0	0
Toluene-d8	50.00	0	50.00	0	50.00	0	50.00	1	50.00	1	50.00	0	50.00	0	50.00	-2
Bromofluorobenzene	50.00	-3	50.00	-4	50.00	-2	50.00	-2	50.00	2	50.00	3	50.00	2	50.00	4

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 887436786002 Cal Date : 30-OCT-2007 Type : SOIL

ICV 887436786022 (lju22 30-OCT-2007) stds: S7415 (10000X), S7365 (5000X)
ICV 887436786023 (lju23 30-OCT-2007) stds: S7498 (10000X), S7480 (10000X), S7365 (5000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	887436786022	0.7323	0.8362	25.00	28.55	ug/L	14	20	
Chloromethane	887436786022	1.3186	1.2816	25.00	24.30	ug/L	-3	20	
Vinyl Chloride	887436786022	1.3475	1.3148	25.00	24.39	ug/L	-2	20	
Bromomethane	887436786022	0.7740	0.7171	25.00	23.16	ug/L	-7	20	
Chloroethane	887436786022	0.8304	0.7894	25.00	23.77	ug/L	-5	20	
Trichlorofluoromethane	887436786022	1.6659	1.4950	25.00	22.43	ug/L	-10	20	
Acetone	887436786023	0.2309	0.2624	25.00	28.41	ug/L	14	30	m
Freon 113	887436786023	0.8077	0.6899	25.00	21.35	ug/L	-15	20	
1,1-Dichloroethene	887436786023	0.6106	0.6325	25.00	25.89	ug/L	4	20	
Methylene Chloride	887436786023	0.7445	0.6865	25.00	23.05	ug/L	-8	20	
Carbon Disulfide	887436786023	2.3687	2.0577	25.00	21.72	ug/L	-13	20	
MTBE	887436786023	1.5979	1.4954	25.00	23.40	ug/L	-6	20	
trans-1,2-Dichloroethene	887436786023	0.7025	0.6277	25.00	22.34	ug/L	-11	20	
Vinyl Acetate	887436786023	0.9749	0.7761	25.00	19.66	ug/L	-21	30	
1,1-Dichloroethane	887436786023	1.3587	1.2192	25.00	22.43	ug/L	-10	20	
2-Butanone	887436786023	0.2902	0.2603	25.00	22.43	ug/L	-10	30	
2,2-Dichloropropane	887436786023	1.0852	0.9360	25.00	21.56	ug/L	-14	20	
cis-1,2-Dichloroethene	887436786023	0.7219	0.6775	25.00	23.46	ug/L	-6	20	
Chloroform	887436786023	1.2919	1.1633	25.00	22.51	ug/L	-10	20	
Bromochloromethane	887436786023	0.3404	0.3070	25.00	22.55	ug/L	-10	20	
1,1,1-Trichloroethane	887436786023	1.1594	1.0302	25.00	22.21	ug/L	-11	20	
1,1-Dichloropropene	887436786023	0.6507	0.5837	25.00	22.43	ug/L	-10	20	
Carbon Tetrachloride	887436786023	0.6894	0.6184	25.00	22.42	ug/L	-10	20	
1,2-Dichloroethane	887436786023	0.6203	0.5579	25.00	22.48	ug/L	-10	20	
Benzene	887436786023	2.1312	1.9753	25.00	23.17	ug/L	-7	20	
Trichloroethene	887436786023	0.4801	0.4454	25.00	23.20	ug/L	-7	20	
1,2-Dichloropropane	887436786023	0.4922	0.4448	25.00	22.59	ug/L	-10	20	
Bromodichloromethane	887436786023	0.6042	0.5743	25.00	23.76	ug/L	-5	20	
Dibromomethane	887436786023	0.2460	0.2269	25.00	23.06	ug/L	-8	20	
4-Methyl-2-Pentanone	887436786023	0.4361	0.4009	25.00	22.98	ug/L	-8	30	
cis-1,3-Dichloropropene	887436786023	0.7228	0.6784	25.00	23.46	ug/L	-6	20	
Toluene	887436786023	1.3878	1.2611	25.00	22.72	ug/L	-9	20	
trans-1,3-Dichloropropene	887436786023	0.6312	0.5379	25.00	21.31	ug/L	-15	20	
1,1,2-Trichloroethane	887436786023	0.2123	0.1952	25.00	22.99	ug/L	-8	20	
2-Hexanone	887436786023	0.3214	0.2741	25.00	21.32	ug/L	-15	30	
1,3-Dichloropropane	887436786023	0.7509	0.7162	25.00	23.84	ug/L	-5	20	
Tetrachloroethene	887436786023	0.6012	0.5359	25.00	22.29	ug/L	-11	20	
Dibromochloromethane	887436786023	0.4380	0.3989	25.00	22.77	ug/L	-9	20	
1,2-Dibromoethane	887436786023	0.3518	0.3322	25.00	23.60	ug/L	-6	20	
Chlorobenzene	887436786023	1.6375	1.4751	25.00	22.52	ug/L	-10	20	
1,1,1,2-Tetrachloroethane	887436786023	0.5517	0.5050	25.00	22.88	ug/L	-8	20	
Ethylbenzene	887436786023	2.8669	2.7071	25.00	23.61	ug/L	-6	20	
m,p-Xylenes	887436786023	1.1555	1.0919	50.00	47.25	ug/L	-6	20	
o-Xylene	887436786023	1.0750	0.9951	25.00	23.14	ug/L	-7	20	
Styrene	887436786023	1.7558	1.6928	25.00	24.10	ug/L	-4	20	
Bromoform	887436786023	0.3304	0.3051	25.00	23.08	ug/L	-8	20	
Isopropylbenzene	887436786023	4.1123	3.6296	25.00	22.07	ug/L	-12	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	887436786023	0.9552	0.8942	25.00	23.40	ug/L	-6	20	
1,2,3-Trichloropropane	887436786023	0.9762	0.9068	25.00	23.22	ug/L	-7	20	
Propylbenzene	887436786023	5.4966	5.2247	25.00	23.76	ug/L	-5	20	
Bromobenzene	887436786023	1.0959	1.0469	25.00	23.88	ug/L	-4	20	
1,3,5-Trimethylbenzene	887436786023	3.8565	3.7084	25.00	24.04	ug/L	-4	20	
2-Chlorotoluene	887436786023	3.7766	3.5473	25.00	23.48	ug/L	-6	20	
4-Chlorotoluene	887436786023	3.2866	3.0381	25.00	23.11	ug/L	-8	20	
tert-Butylbenzene	887436786023	3.3976	3.2191	25.00	23.69	ug/L	-5	20	
1,2,4-Trimethylbenzene	887436786023	4.0055	3.9444	25.00	24.62	ug/L	-2	20	
sec-Butylbenzene	887436786023	5.3176	5.0474	25.00	23.73	ug/L	-5	20	
para-Isopropyl Toluene	887436786023	4.4774	4.1657	25.00	23.26	ug/L	-7	20	
1,3-Dichlorobenzene	887436786023	2.3135	2.0926	25.00	22.61	ug/L	-10	20	
1,4-Dichlorobenzene	887436786023	2.4155	2.1602	25.00	22.36	ug/L	-11	20	
n-Butylbenzene	887436786023	4.3162	4.1127	25.00	23.82	ug/L	-5	20	
1,2-Dichlorobenzene	887436786023	2.0963	1.9303	25.00	23.02	ug/L	-8	20	
1,2-Dibromo-3-Chloropropane	887436786023	0.1863	0.1720	25.00	23.09	ug/L	-8	20	
1,2,4-Trichlorobenzene	887436786023	1.4140	1.2865	25.00	22.75	ug/L	-9	20	
Hexachlorobutadiene	887436786023	0.9848	0.9300	25.00	23.61	ug/L	-6	20	
Naphthalene	887436786023	2.9195	2.7580	25.00	22.92	ug/L	-8	20	
1,2,3-Trichlorobenzene	887436786023	1.3774	1.2527	25.00	22.74	ug/L	-9	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : 25PPB IDF : 1.0
Seqnum : 457456946003.1 File : fkd03 Time : 13-NOV-2007 08:36
Cal : 457437048001 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (20000X), S7403 (20000X), S7444 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5677	0.7401	25.00	32.59	ug/L	**30**	20	0.0500	c+ ***
Chloromethane	1.0774	1.2549	25.00	29.12	ug/L	16	20	0.1000	
Vinyl Chloride	0.8692	0.9937	25.00	28.58	ug/L	14	20	0.0500	
Bromomethane	0.3796	0.4399	25.00	28.97	ug/L	16	20	0.0500	
Chloroethane	0.4249	0.4895	25.00	28.80	ug/L	15	20	0.0500	
Trichlorofluoromethane	0.8161	1.0326	25.00	31.63	ug/L	**27**	20	0.0500	c+ ***
Acetone	0.5077	0.5031	25.00	24.77	ug/L	-1	30	0.0500	
Freon 113	0.6874	0.8161	25.00	29.68	ug/L	19	20	0.0500	
1,1-Dichloroethene	0.5835	0.6821	25.00	29.23	ug/L	17	20	0.0500	
Methylene Chloride	0.8858	0.9728	25.00	27.45	ug/L	10	20	0.0500	
Carbon Disulfide	2.5954	2.9243	25.00	28.17	ug/L	13	20	0.0500	
MTBE	2.2794	2.1344	25.00	23.41	ug/L	-6	20	0.0500	
trans-1,2-Dichloroethene	0.7223	0.8018	25.00	27.75	ug/L	11	20	0.0500	
Vinyl Acetate	2.1249	2.1346	25.00	25.11	ug/L	0	30	0.0500	
1,1-Dichloroethane	1.5254	1.5701	25.00	25.73	ug/L	3	20	0.1000	
2-Butanone	0.7598	0.6635	25.00	21.83	ug/L	-13	30	0.0500	
2,2-Dichloropropane	0.7592	0.9568	25.00	31.51	ug/L	**26**	20	0.0500	c+ ***
cis-1,2-Dichloroethene	0.8178	0.8385	25.00	25.63	ug/L	3	20	0.0500	
Chloroform	1.3164	1.3053	25.00	24.79	ug/L	-1	20	0.0500	
Bromochloromethane	0.4270	0.4329	25.00	25.34	ug/L	1	20	0.0500	
1,1,1-Trichloroethane	0.8226	0.8916	25.00	27.10	ug/L	8	20	0.0500	
1,1-Dichloropropene	0.5549	0.6507	25.00	29.32	ug/L	17	20	0.0500	
Carbon Tetrachloride	0.3947	0.4562	25.00	28.90	ug/L	16	20	0.0500	
1,2-Dichloroethane	0.6038	0.5881	25.00	24.35	ug/L	-3	20	0.0500	
Benzene	1.7264	1.8047	25.00	26.13	ug/L	5	20	0.0500	
Trichloroethene	0.4014	0.4496	25.00	28.00	ug/L	12	20	0.0500	
1,2-Dichloropropane	0.5501	0.5657	25.00	25.71	ug/L	3	20	0.0500	
Bromodichloromethane	0.5878	0.5892	25.00	25.06	ug/L	0	20	0.0500	
Dibromomethane	0.3247	0.3233	25.00	24.89	ug/L	0	20	0.0500	
4-Methyl-2-Pentanone	0.8201	0.7534	25.00	22.97	ug/L	-8	30	0.0500	
cis-1,3-Dichloropropene	0.7342	0.7850	25.00	26.73	ug/L	7	20	0.0500	
Toluene	0.9434	1.0572	25.00	28.02	ug/L	12	20	0.0500	
trans-1,3-Dichloropropene	0.6310	0.6420	25.00	25.44	ug/L	2	20	0.0500	
1,1,2-Trichloroethane	0.2433	0.2327	25.00	23.90	ug/L	-4	20	0.0500	
2-Hexanone	0.7153	0.6175	25.00	21.58	ug/L	-14	30	0.0500	
1,3-Dichloropropane	0.8093	0.7892	25.00	24.38	ug/L	-2	20	0.0500	
Tetrachloroethene	0.4082	0.5376	25.00	32.93	ug/L	**32**	20	0.0500	c+ ***
Dibromochloromethane	0.5518	0.5304	25.00	24.03	ug/L	-4	20	0.0500	
1,2-Dibromoethane	0.4624	0.4446	25.00	24.04	ug/L	-4	20	0.0500	
Chlorobenzene	1.1788	1.2441	25.00	26.38	ug/L	6	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4424	0.4389	25.00	24.80	ug/L	-1	20	0.0500	
Ethylbenzene	1.9770	2.1735	25.00	27.49	ug/L	10	20	0.0500	
m,p-Xylenes	0.7031	0.7850	50.00	55.83	ug/L	12	20	0.0500	
o-Xylene	0.7082	0.7816	25.00	27.59	ug/L	10	20	0.0500	
Styrene	1.2529	1.3584	25.00	27.11	ug/L	8	20	0.0500	
Bromoform	0.3993	0.3846	25.00	24.08	ug/L	-4	20	0.1000	
Isopropylbenzene	3.4828	3.5148	25.00	25.23	ug/L	1	20	0.0500	
1,1,2,2-Tetrachloroethane	1.5885	1.2825	25.00	20.18	ug/L	-19	20	0.3000	

00100

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	1.2287	1.0233	25.00	20.82	ug/L	-17	20	0.0500	
Propylbenzene	4.6614	4.7597	25.00	25.53	ug/L	2	20	0.0500	
Bromobenzene	1.0451	1.0767	25.00	25.76	ug/L	3	20	0.0500	
1,3,5-Trimethylbenzene	2.9759	2.9771	25.00	25.01	ug/L	0	20	0.0500	
2-Chlorotoluene	3.1277	3.0889	25.00	24.69	ug/L	-1	20	0.0500	
4-Chlorotoluene	2.9473	2.8787	25.00	24.42	ug/L	-2	20	0.0500	
tert-Butylbenzene	2.4206	2.4769	25.00	25.58	ug/L	2	20	0.0500	
1,2,4-Trimethylbenzene	2.9758	2.9322	25.00	24.63	ug/L	-1	20	0.0500	
sec-Butylbenzene	3.9496	4.0426	25.00	25.59	ug/L	2	20	0.0500	
para-Isopropyl Toluene	3.0206	3.2457	25.00	26.86	ug/L	7	20	0.0500	
1,3-Dichlorobenzene	1.8429	1.9134	25.00	25.96	ug/L	4	20	0.0500	
1,4-Dichlorobenzene	1.8642	1.9637	25.00	26.33	ug/L	5	20	0.0500	
n-Butylbenzene	3.0804	3.2035	25.00	26.00	ug/L	4	20	0.0500	
1,2-Dichlorobenzene	1.7857	1.7856	25.00	25.00	ug/L	0	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2976	0.2114	25.00	17.76	ug/L	**-29**	20	0.0500	c- ***
1,2,4-Trichlorobenzene	1.0241	1.1444	25.00	27.94	ug/L	12	20	0.0500	
Hexachlorobutadiene	0.5630	0.6667	25.00	29.61	ug/L	18	20	0.0500	
Naphthalene	2.7354	2.3011	25.00	21.03	ug/L	-16	20	0.0500	
1,2,3-Trichlorobenzene	1.0163	1.0404	25.00	25.59	ug/L	2	20	0.0500	
Dibromofluoromethane	0.6494	0.5921	50.00	45.59	ug/L	-9	20	0.0500	
1,2-Dichloroethane-d4	0.3563	0.3485	50.00	48.91	ug/L	-2	20	0.0500	
Trifluorotoluene	0.5673	0.7474	25.00	32.93	ug/L	**32**	20	0.0500	c+
Toluene-d8	1.0288	1.1081	50.00	53.86	ug/L	8	20	0.0500	
Bromofluorobenzene	1.1047	0.9944	50.00	45.00	ug/L	-10	20	0.0500	

ISTD (ICAL fju16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	647926	1142499	76.33	11.95	11.95	0.01
1,4-Difluorobenzene	1140261	1881964	65.05	13.26	13.26	0.01
Chlorobenzene-d5	1005164	1686666	67.80	17.97	17.97	0.00
1,4-Dichlorobenzene-d4	467848	904039	93.23	20.83	20.82	-0.01

Analyst: BO Date: 11/14/07 Reviewer: ACM Date: 11/14/07

+=high bias -=low bias c=CCV

457456946003.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : 25PPB IDF : 1.0
Seqnum : 457456946008.1 File : fkd08 Time : 13-NOV-2007 11:38
Cal : 457437048001 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7480 (10000X), S7590 (50000X), S7652 (10000X), S7498 (10000X), S7444 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5677	0.7395	25.00	32.57	ug/L	**30**	20	0.0500	c+ ***
Chloromethane	1.0774	1.2076	25.00	28.02	ug/L	12	20	0.1000	
Vinyl Chloride	0.8692	0.9044	25.00	26.01	ug/L	4	20	0.0500	
Bromomethane	0.3796	0.4493	25.00	29.59	ug/L	18	20	0.0500	
Chloroethane	0.4249	0.4291	25.00	25.24	ug/L	1	20	0.0500	
Trichlorofluoromethane	0.8161	0.8988	25.00	27.53	ug/L	10	20	0.0500	
Acetone	0.5077	0.6665	25.00	32.82	ug/L	**31**	30	0.0500	c+ ***
Freon 113	0.6874	0.6831	25.00	24.84	ug/L	-1	20	0.0500	
1,1-Dichloroethene	0.5835	0.6581	25.00	28.20	ug/L	13	20	0.0500	
Methylene Chloride	0.8858	1.0530	25.00	29.72	ug/L	19	20	0.0500	
Carbon Disulfide	2.5954	2.6238	25.00	25.27	ug/L	1	20	0.0500	
MTBE	2.2794	2.1384	25.00	23.45	ug/L	-6	20	0.0500	
trans-1,2-Dichloroethene	0.7223	0.7634	25.00	26.42	ug/L	6	20	0.0500	
Vinyl Acetate	2.1249	1.8641	25.00	21.93	ug/L	-12	30	0.0500	
1,1-Dichloroethane	1.5254	1.5414	25.00	25.26	ug/L	1	20	0.1000	
2-Butanone	0.7598	0.8012	25.00	26.36	ug/L	5	30	0.0500	
2,2-Dichloropropane	0.7592	0.8953	25.00	29.48	ug/L	18	20	0.0500	
cis-1,2-Dichloroethene	0.8178	0.8700	25.00	26.60	ug/L	6	20	0.0500	
Chloroform	1.3164	1.2943	25.00	24.58	ug/L	-2	20	0.0500	
Bromochloromethane	0.4270	0.4317	25.00	25.27	ug/L	1	20	0.0500	
1,1,1-Trichloroethane	0.8226	0.8366	25.00	25.43	ug/L	2	20	0.0500	
1,1-Dichloropropene	0.5549	0.5943	25.00	26.78	ug/L	7	20	0.0500	
Carbon Tetrachloride	0.3947	0.4166	25.00	26.39	ug/L	6	20	0.0500	
1,2-Dichloroethane	0.6038	0.5832	25.00	24.15	ug/L	-3	20	0.0500	
Benzene	1.7264	1.7887	25.00	25.90	ug/L	4	20	0.0500	
Trichloroethene	0.4014	0.4434	25.00	27.61	ug/L	10	20	0.0500	
1,2-Dichloropropane	0.5501	0.5695	25.00	25.88	ug/L	4	20	0.0500	
Bromodichloromethane	0.5878	0.6010	25.00	25.56	ug/L	2	20	0.0500	
Dibromomethane	0.3247	0.3228	25.00	24.85	ug/L	-1	20	0.0500	
4-Methyl-2-Pentanone	0.8201	0.8118	25.00	24.75	ug/L	-1	30	0.0500	
cis-1,3-Dichloropropene	0.7342	0.7708	25.00	26.25	ug/L	5	20	0.0500	
Toluene	0.9434	1.0145	25.00	26.88	ug/L	8	20	0.0500	
trans-1,3-Dichloropropene	0.6310	0.6159	25.00	24.40	ug/L	-2	20	0.0500	
1,1,2-Trichloroethane	0.2433	0.2434	25.00	25.01	ug/L	0	20	0.0500	
2-Hexanone	0.7153	0.7045	25.00	24.62	ug/L	-2	30	0.0500	
1,3-Dichloropropane	0.8093	0.8153	25.00	25.18	ug/L	1	20	0.0500	
Tetrachloroethene	0.4082	0.4863	25.00	29.78	ug/L	19	20	0.0500	
Dibromochloromethane	0.5518	0.5151	25.00	23.34	ug/L	-7	20	0.0500	
1,2-Dibromoethane	0.4624	0.4593	25.00	24.83	ug/L	-1	20	0.0500	
Chlorobenzene	1.1788	1.2174	25.00	25.82	ug/L	3	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4424	0.4229	25.00	23.90	ug/L	-4	20	0.0500	
Ethylbenzene	1.9770	2.0838	25.00	26.35	ug/L	5	20	0.0500	
m,p-Xylenes	0.7031	0.7425	50.00	52.81	ug/L	6	20	0.0500	
o-Xylene	0.7082	0.7418	25.00	26.19	ug/L	5	20	0.0500	
Styrene	1.2529	1.3555	25.00	27.05	ug/L	8	20	0.0500	
Bromoform	0.3993	0.3934	25.00	24.63	ug/L	-1	20	0.1000	
Isopropylbenzene	3.4828	3.1638	25.00	22.71	ug/L	-9	20	0.0500	

QD119

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.5885	1.3778	25.00	21.68	ug/L	-13	20	0.3000	
1,2,3-Trichloropropane	1.2287	1.0771	25.00	21.92	ug/L	-12	20	0.0500	
Propylbenzene	4.6614	4.5471	25.00	24.39	ug/L	-2	20	0.0500	
Bromobenzene	1.0451	1.0716	25.00	25.63	ug/L	3	20	0.0500	
1,3,5-Trimethylbenzene	2.9759	2.9301	25.00	24.62	ug/L	-2	20	0.0500	
2-Chlorotoluene	3.1277	2.9738	25.00	23.77	ug/L	-5	20	0.0500	
4-Chlorotoluene	2.9473	2.8713	25.00	24.36	ug/L	-3	20	0.0500	
tert-Butylbenzene	2.4206	2.2467	25.00	23.20	ug/L	-7	20	0.0500	
1,2,4-Trimethylbenzene	2.9758	3.0999	25.00	26.04	ug/L	4	20	0.0500	
sec-Butylbenzene	3.9496	3.8685	25.00	24.49	ug/L	-2	20	0.0500	
para-Isopropyl Toluene	3.0206	3.0031	25.00	24.86	ug/L	-1	20	0.0500	
1,3-Dichlorobenzene	1.8429	1.8682	25.00	25.34	ug/L	1	20	0.0500	
1,4-Dichlorobenzene	1.8642	1.9424	25.00	26.05	ug/L	4	20	0.0500	
n-Butylbenzene	3.0804	3.1751	25.00	25.77	ug/L	3	20	0.0500	
1,2-Dichlorobenzene	1.7857	1.8281	25.00	25.59	ug/L	2	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2976	0.2456	25.00	20.63	ug/L	-17	20	0.0500	
1,2,4-Trichlorobenzene	1.0241	1.2066	25.00	29.45	ug/L	18	20	0.0500	
Hexachlorobutadiene	0.5630	0.6504	25.00	28.88	ug/L	16	20	0.0500	
Naphthalene	2.7354	2.6190	25.00	23.94	ug/L	-4	20	0.0500	
1,2,3-Trichlorobenzene	1.0163	1.1258	25.00	27.70	ug/L	11	20	0.0500	
Dibromofluoromethane	0.6494	0.6040	50.00	46.51	ug/L	-7	20	0.0500	
1,2-Dichloroethane-d4	0.3563	0.3684	50.00	51.69	ug/L	3	20	0.0500	
Trifluorotoluene	0.5673	0.5838	25.00	25.72	ug/L	3	20	0.0500	
Toluene-d8	1.0288	1.0861	50.00	52.78	ug/L	6	20	0.0500	
Bromofluorobenzene	1.1047	1.0237	50.00	46.33	ug/L	-7	20	0.0500	

ISTD (ICAL fju16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	647926	731129	12.84	11.95	11.95	0.01
1,4-Difluorobenzene	1140261	1233562	8.18	13.26	13.25	-0.01
Chlorobenzene-d5	1005164	1132681	12.69	17.97	17.97	0.00
1,4-Dichlorobenzene-d4	467848	594335	27.04	20.83	20.82	-0.01

Analyst: BO Date: 11/14/07 Reviewer: ACM Date: 11/14/07

+=high bias c=CCV

457456946008.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : 20PPB IDF : 1.0
Seqnum : 887455508014.1 File : lkc14 Time : 12-NOV-2007 16:39
Cal : 887436786002 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (12500X), S7625 (12500X), S7365 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7323	0.6987	40.00	38.17	ug/L	-5	20	0.0500	
Chloromethane	1.3186	1.4254	40.00	43.24	ug/L	8	20	0.1000	
Vinyl Chloride	1.3475	1.4911	40.00	44.26	ug/L	11	20	0.0500	
Bromomethane	0.7740	0.8689	40.00	44.90	ug/L	12	20	0.0500	
Chloroethane	0.8304	0.9243	40.00	44.52	ug/L	11	20	0.0500	
Trichlorofluoromethane	1.6659	1.4286	40.00	34.30	ug/L	-14	20	0.0500	
Acetone	0.2309	0.2507	40.00	43.43	ug/L	9	30	0.0500	
Freon 113	0.8077	0.6337	40.00	31.38	ug/L	**-22**	20	0.0500	c- ***
1,1-Dichloroethene	0.6106	0.5181	40.00	33.94	ug/L	-15	20	0.0500	
Methylene Chloride	0.7445	0.8637	40.00	46.40	ug/L	16	20	0.0500	
Carbon Disulfide	2.3687	2.0996	40.00	35.46	ug/L	-11	20	0.0500	
MTBE	1.5979	1.6795	40.00	42.04	ug/L	5	20	0.0500	
trans-1,2-Dichloroethene	0.7025	0.6438	40.00	36.65	ug/L	-8	20	0.0500	
Vinyl Acetate	0.9749	1.0294	40.00	38.03	ug/L	-5	30	0.0500	
1,1-Dichloroethane	1.3587	1.2789	40.00	37.65	ug/L	-6	20	0.1000	
2-Butanone	0.2902	0.2965	40.00	40.87	ug/L	2	30	0.0500	
2,2-Dichloropropane	1.0852	0.9906	40.00	36.51	ug/L	-9	20	0.0500	
cis-1,2-Dichloroethene	0.7219	0.6963	40.00	38.58	ug/L	-4	20	0.0500	
Chloroform	1.2919	1.1282	40.00	34.93	ug/L	-13	20	0.0500	
Bromochloromethane	0.3404	0.3178	40.00	37.35	ug/L	-7	20	0.0500	
1,1,1-Trichloroethane	1.1594	0.9559	40.00	32.98	ug/L	-18	20	0.0500	
1,1-Dichloropropene	0.6507	0.6489	40.00	39.89	ug/L	0	20	0.0500	
Carbon Tetrachloride	0.6894	0.5623	40.00	32.62	ug/L	-18	20	0.0500	
1,2-Dichloroethane	0.6203	0.5206	40.00	33.57	ug/L	-16	20	0.0500	
Benzene	2.1312	2.0713	40.00	38.88	ug/L	-3	20	0.0500	
Trichloroethene	0.4801	0.4629	40.00	38.57	ug/L	-4	20	0.0500	
1,2-Dichloropropane	0.4922	0.5171	40.00	42.03	ug/L	5	20	0.0500	
Bromodichloromethane	0.6042	0.5395	40.00	35.72	ug/L	-11	20	0.0500	
Dibromomethane	0.2460	0.2253	40.00	36.63	ug/L	-8	20	0.0500	
4-Methyl-2-Pentanone	0.4361	0.4819	40.00	44.20	ug/L	10	30	0.0500	
cis-1,3-Dichloropropene	0.7228	0.7468	40.00	41.33	ug/L	3	20	0.0500	
Toluene	1.3878	1.5079	40.00	43.46	ug/L	9	20	0.0500	
trans-1,3-Dichloropropene	0.6312	0.6622	40.00	41.97	ug/L	5	20	0.0500	
1,1,2-Trichloroethane	0.2123	0.2147	40.00	40.46	ug/L	1	20	0.0500	
2-Hexanone	0.3214	0.3299	40.00	41.06	ug/L	3	30	0.0500	
1,3-Dichloropropane	0.7509	0.6960	40.00	37.07	ug/L	-7	20	0.0500	
Tetrachloroethene	0.6012	0.5229	40.00	34.79	ug/L	-13	20	0.0500	
Dibromochloromethane	0.4380	0.3605	40.00	32.92	ug/L	-18	20	0.0500	
1,2-Dibromoethane	0.3518	0.3543	40.00	40.29	ug/L	1	20	0.0500	
Chlorobenzene	1.6375	1.6283	40.00	39.78	ug/L	-1	20	0.3000	
1,1,1,2-Tetrachloroethane	0.5517	0.4691	40.00	34.01	ug/L	-15	20	0.0500	
Ethylbenzene	2.8669	3.0327	40.00	42.31	ug/L	6	20	0.0500	
m,p-Xylenes	1.1555	1.2626	80.00	87.42	ug/L	9	20	0.0500	
o-Xylene	1.0750	1.2006	40.00	44.67	ug/L	12	20	0.0500	
Styrene	1.7558	1.9193	40.00	43.73	ug/L	9	20	0.0500	
Bromoform	0.3304	0.2852	40.00	34.52	ug/L	-14	20	0.1000	
Isopropylbenzene	4.1123	4.5972	40.00	44.72	ug/L	12	20	0.0500	
1,1,2,2-Tetrachloroethane	0.9552	0.9846	40.00	41.23	ug/L	3	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9762	0.9608	40.00	39.37	ug/L	-2	20	0.0500	
Propylbenzene	5.4966	6.2341	40.00	45.37	ug/L	13	20	0.0500	
Bromobenzene	1.0959	1.0673	40.00	38.96	ug/L	-3	20	0.0500	
1,3,5-Trimethylbenzene	3.8565	4.3355	40.00	44.97	ug/L	12	20	0.0500	
2-Chlorotoluene	3.7766	4.0601	40.00	43.00	ug/L	8	20	0.0500	
4-Chlorotoluene	3.2866	3.6977	40.00	45.00	ug/L	13	20	0.0500	
tert-Butylbenzene	3.3976	3.7530	40.00	44.18	ug/L	10	20	0.0500	
1,2,4-Trimethylbenzene	4.0055	4.4273	40.00	44.21	ug/L	11	20	0.0500	
sec-Butylbenzene	5.3176	5.9221	40.00	44.55	ug/L	11	20	0.0500	
para-Isopropyl Toluene	4.4774	4.9822	40.00	44.51	ug/L	11	20	0.0500	
1,3-Dichlorobenzene	2.3135	2.3740	40.00	41.05	ug/L	3	20	0.0500	
1,4-Dichlorobenzene	2.4155	2.4329	40.00	40.29	ug/L	1	20	0.0500	
n-Butylbenzene	4.3162	4.9818	40.00	46.17	ug/L	15	20	0.0500	
1,2-Dichlorobenzene	2.0963	2.1532	40.00	41.09	ug/L	3	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1863	0.2049	40.00	44.01	ug/L	10	20	0.0500	
1,2,4-Trichlorobenzene	1.4140	1.6362	40.00	46.29	ug/L	16	20	0.0500	
Hexachlorobutadiene	0.9848	0.9718	40.00	39.47	ug/L	-1	20	0.0500	
Naphthalene	2.9195	3.3705	40.00	41.69	ug/L	4	20	0.0500	
1,2,3-Trichlorobenzene	1.3774	1.4909	40.00	43.30	ug/L	8	20	0.0500	
Dibromofluoromethane	0.4644	0.4017	50.00	43.25	ug/L	-14	20	0.0500	
1,2-Dichloroethane-d4	0.3806	0.3200	50.00	42.04	ug/L	-16	20	0.0500	
Trifluorotoluene	0.8862	0.9221	40.00	41.62	ug/L	4	20	0.0500	
Toluene-d8	1.2287	1.3258	50.00	53.95	ug/L	8	20	0.0500	
Bromofluorobenzene	0.8298	0.9002	50.00	54.24	ug/L	8	20	0.0500	

ISTD (ICAL ljul8)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	382859	386336	0.91	9.86	9.86	0.00
1,4-Difluorobenzene	557566	561773	0.75	10.71	10.71	0.00
Chlorobenzene-d5	546470	597096	9.26	13.84	13.84	0.00
1,4-Dichlorobenzene-d4	381863	410444	7.48	16.35	16.34	-0.01

Analyst: BO Date: 11/14/07 Reviewer: ACM Date: 11/14/07

--=low bias c=CCV

887455508014.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 457456946

Date : 11/13/07
Sequence : MSVOA06 fkd

Reference : fju16
Analyzed : 10/30/07 19:40

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	647926	11.95	1140261	13.26	1005164	17.97	467848	20.83
		LOWER LIMIT	323963	11.45	570131	12.76	502582	17.47	233924	20.33
		UPPER LIMIT	1295852	12.45	2280522	13.76	2010328	18.47	935696	21.33
003	CCV	25PPB	1142499	11.95	1881964	13.26	1686666	17.97	904039	20.82
005	BS	QC415069	1037092	11.93	1730829	13.24	1542694	17.97	838647	20.82
006	BSD	QC415070	1004022	11.94	1670310	13.25	1510875	17.97	791070	20.82
008	CCV	25PPB	731129	11.95	1233562	13.25	1132681	17.97	594335	20.82
010	BLANK	QC415071	674132	11.94	1155075	13.25	1045231	17.98	529756	20.82
011	SAMPLE	199132-010	716495	11.94	1233392	13.25	1138518	17.97	601223	20.83
013	SAMPLE	199160-004	721457	11.94	1299316	13.25	1168776	17.98	605074	20.83
014	SAMPLE	199132-009	788901	11.93	1365633	13.25	1235928	17.98	666215	20.84
015	SAMPLE	199132-010	788878	11.95	1350014	13.26	1220684	17.98	659205	20.83
016	SAMPLE	199160-003	763408	11.95	1280420	13.26	1188205	17.98	636518	20.82
017	SAMPLE	199153-015	783608	11.95	1330863	13.26	1238215	17.98	665993	20.82
019	SAMPLE	199211-001	748797	11.94	1240295	13.25	1136229	17.97	602607	20.83
020	MSS	199163-004	803775	11.94	1361421	13.25	1243184	17.98	646266	20.83
021	SAMPLE	199153-030	806245	11.93	1335989	13.25	1155145	17.98	577691	20.83
022	MS	QC415224	785963	11.95	1339639	13.26	1214120	17.98	664310	20.82
023	MSD	QC415225	779057	11.95	1302836	13.26	1182761	17.98	628678	20.84

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 887455508

Date : 11/12/07
Sequence : MSVOA12 lkc

Reference : lju18
Analyzed : 10/30/07 19:51

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	382859	9.86	557566	10.71	546470	13.84	381863	16.35
		LOWER LIMIT	191430	9.36	278783	10.21	273235	13.34	190932	15.85
		UPPER LIMIT	765718	10.36	1115132	11.21	1092940	14.34	763726	16.85
014	CCV	20PPB	386336	9.86	561773	10.71	597096	13.84	410444	16.34
015	LCS	QC414998	395362	9.86	580526	10.71	633723	13.84	430309	16.34
017	BLANK	QC414999	372355	9.86	598341	10.71	607841	13.84	356098	16.34
018	MSS	199163-004	454814	9.86	771021	10.71	759023	13.84	436824	16.35
019	SAMPLE	199163-001	466193	9.86	781687	10.71	794193	13.84	460281	16.35
020	SAMPLE	199163-002	456353	9.86	775928	10.71	781926	13.84	458490	16.35
021	SAMPLE	199163-003	432356	9.86	731566	10.71	748162	13.84	434176	16.35
022	SAMPLE	199163-005	414936	9.86	720780	10.71	716405	13.84	420621	16.35
023	SAMPLE	199163-006	367798	9.86	636193	10.71	637800	13.84	367893	16.35
024	SAMPLE	199160-004	66022 *	9.86	110107 *	10.71	127850 *	13.84	63690 *	16.34
025	SAMPLE	199160-005	387887	9.86	680871	10.71	695718	13.84	410062	16.35
026	SAMPLE	199160-006	366863	9.86	640843	10.71	648955	13.84	386199	16.35
027	SAMPLE	199160-007	365919	9.86	654415	10.71	664906	13.84	393391	16.35
028	MS	QC415008	421693	9.86	673144	10.71	679938	13.84	461420	16.35
029	MSD	QC415009	400626	9.86	615814	10.71	633505	13.84	425801	16.35
031	SAMPLE	199160-003	285308	9.86	443449	10.71	558919	13.84	376070	16.34
032	SAMPLE	199153-015	450652	9.86	682627	10.71	759108	13.84	496099	16.34
033	SAMPLE	199153-030	514348	9.86	802509	10.71	824500	13.84	491967	16.34

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457437048

Instrument : MSVOA06
Method : EPA 8260B

Begun : 10/30/07 12:08
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fju01	X	IB			10/30/07 12:08	1.0	1	
002	fju02	TUN	BFB			10/30/07 12:42	1.0	2	
003	fju03	CCV	20PPB			10/30/07 12:59	1.0	3 4 1	
004	fju04	TUN	BFB			10/30/07 14:16	1.0	2	
005	fju05	TUN	BFB			10/30/07 14:35	1.0	2	
006	fju06	TUN	BFB			10/30/07 14:49	1.0	2	
007	fju07	TUN	BFB			10/30/07 15:02	1.0	2	
008	fju08	TUN	BFB			10/30/07 15:16	1.0	2	
009	fju09	X	IB			10/30/07 15:35	1.0	1	
010	fju10	X	IB			10/30/07 16:10	1.0	1	
011	fju11	IB	CALIB IB			10/30/07 16:45	1.0	1	
012	fju12	ICAL	2.5PPB			10/30/07 17:19	1.0	5 6 1	
013	fju13	ICAL	5PPB			10/30/07 17:54	1.0	5 6 1	
014	fju14	ICAL	10PPB			10/30/07 18:30	1.0	5 6 1	
015	fju15	ICAL	20PPB			10/30/07 19:05	1.0	3 7 1	
016	fju16	ICAL	50PPB			10/30/07 19:40	1.0	3 7 1	
017	fju17	ICAL	60PPB			10/30/07 20:15	1.0	3 7 1	
018	fju18	ICAL	75PPB			10/30/07 20:50	1.0	3 7 1	
019	fju19	ICAL	100PPB			10/30/07 21:24	1.0	3 7 1	
020	fju20	ICV	25PPB			10/30/07 21:59	1.0	8 1	
021	fju21	ICV	25PPB			10/30/07 22:34	1.0	9 10 1	
022	fju22	X	IB			10/30/07 23:09	1.0	1	
023	fju23	X	IB			10/30/07 23:44	1.0	1	

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7424 6=S7425 7=S7531 8=S7415 9=S7480 10=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457456946

Instrument : MSVOA06
Method : EPA 8260B

Begun : 11/13/07 07:46
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fkd01	X	IB				11/13/07 07:46	1.0	1	
002	fkd02	TUN	BFB				11/13/07 08:20	1.0	2	
003	fkd03	CCV	25PPB				11/13/07 08:36	1.0	3 4 1	
004	fkd04	X	QC415069		Soil	131648	11/13/07 09:28	1.0	5 6 7 1	
005	fkd05	BS	QC415069		Soil	131648	11/13/07 10:03	1.0	5 6 7 1	
006	fkd06	BSD	QC415070		Soil	131648	11/13/07 10:37	1.0	5 6 7 1	
007	fkd07	TUN	BFB				11/13/07 11:21	1.0	2	
008	fkd08	CCV	25PPB				11/13/07 11:38	1.0	5 8 6 7 1	
009	fkd09	X	IB				11/13/07 12:12	1.0	1	
010	fkd10	BLANK	QC415071		Soil	131648	11/13/07 12:47	1.0	1	
011	fkd11	SAMPLE	199132-010		Soil	131648	11/13/07 13:22	5.556	1	
012	fkd12	X	IB				11/13/07 13:57	1.0	1	
013	fkd13	SAMPLE	199160-004		Soil	131648	11/13/07 14:32	0.9804	1	1:MTLNCL=150
014	fkd14	SAMPLE	199132-009	M	Soil	131648	11/13/07 15:06	25.0	8 1	
015	fkd15	SAMPLE	199132-010		Soil	131648	11/13/07 15:41	2.0	1	
016	fkd16	SAMPLE	199160-003	M	Soil	131648	11/13/07 16:15	400.0	8 1	
017	fkd17	SAMPLE	199153-015	M	Soil	131648	11/13/07 16:50	200.0	8 1	
018	fkd18	X	IB				11/13/07 17:24	1.0	1	
019	fkd19	SAMPLE	199211-001		Soil	131648	11/13/07 17:59	0.9615	1	
020	fkd20	MSS	199163-004		Soil	131648	11/13/07 18:34	1.515	1	
021	fkd21	SAMPLE	199153-030	M	Soil	131648	11/13/07 19:08	25.0	8 1	
022	fkd22	MS	QC415224		Soil	131648	11/13/07 19:42	0.9434	5 6 7 1	
023	fkd23	MSD	QC415225		Soil	131648	11/13/07 20:17	0.9615	5 6 7 1	
024	fkd24	X	IB				11/13/07 20:51	1.0	1	
025	fkd25	X	IB				11/13/07 21:26	1.0	1	
026	fkd26	X	IB				11/13/07 22:01	1.0	1	
027	fkd27	X	6A				11/13/07 22:36	1.0	1	
028	fkd28	X	6B				11/13/07 23:11	1.0	1	

Analyst: BO Date: 11/14/07 Reviewer: LW Date: 11/14/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7480 6=S7652 7=S7498 8=S7590

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887436786

Instrument : MSVOA12
Method : EPA 8260B

Begun : 10/30/07 07:46
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	lju01	X	IB			10/30/07 07:46	1.0	1
002	lju02	X	BFB			10/30/07 10:13	1.0	2
003	lju03	X	25PPB			10/30/07 10:42	1.0	3 4 1
004	lju04	X	QC412874	Soil	131099	10/30/07 11:23	1.0	5 6 7 8 1
005	lju05	X	QC412875	Soil	131099	10/30/07 11:55	1.0	5 6 7 8 1
006	lju06	X	BFB			10/30/07 12:56	1.0	2
007	lju07	X	30PPB			10/30/07 13:23	1.0	3 4 1
008	lju08	X	QC412874	Soil	131099	10/30/07 13:55	1.0	5 6 7 8 1
009	lju09	X	QC412875	Soil	131099	10/30/07 14:27	1.0	5 6 7 8 1
010	lju10	TUN	BFB			10/30/07 15:38	1.0	2
011	lju11	X	LP			10/30/07 16:05	1.0	1
012	lju12	X	IB			10/30/07 16:37	1.0	1
013	lju13	IB	CALIB			10/30/07 17:10	1.0	1
014	lju14	ICAL	2.5PPB			10/30/07 17:42	1.0	9 10 1
015	lju15	ICAL	5PPB			10/30/07 18:14	1.0	9 10 1
016	lju16	ICAL	10PPB			10/30/07 18:47	1.0	9 10 1
017	lju17	ICAL	20PPB			10/30/07 19:19	1.0	3 11 1
018	lju18	ICAL	50PPB			10/30/07 19:51	1.0	3 11 1
019	lju19	ICAL	60PPB			10/30/07 20:23	1.0	3 11 1
020	lju20	ICAL	75PPB			10/30/07 20:56	1.0	3 11 1
021	lju21	ICAL	100PPB			10/30/07 21:28	1.0	3 11 1
022	lju22	ICV	25PPB			10/30/07 22:01	1.0	6 1
023	lju23	ICV	25PPB			10/30/07 22:33	1.0	7 5 1
024	lju24	X	IB			10/30/07 23:05	1.0	1
025	lju25	X	IB			10/30/07 23:38	1.0	1
026	lju26	X	IB			10/31/07 00:10	1.0	1

Analyst: WNH Date: 10/31/07 Reviewer: LW Date: 10/31/07

Standards used: 1=S7365 2=S6497 3=S7417 4=S7296 5=S7480 6=S7415 7=S7498 8=S7000 9=S7425 10=S7424 11=S7531

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 887455508

Instrument : MSVOA12
Method : EPA 8260B

Begun : 11/12/07 07:48
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	lkc01	X	IB				11/12/07 07:48	1.0	1	
002	lkc02	X	BFB				11/12/07 10:32	1.0	2	
003	lkc03	X	BFB				11/12/07 10:44	1.0	2	
004	lkc04	X	20PPB				11/12/07 10:56	1.0	3 4 1	
005	lkc05	X	BFB				11/12/07 12:41	1.0	2	
006	lkc06	X	20PPB				11/12/07 13:15	1.0	3 4 1	
007	lkc07	X	IB				11/12/07 13:59	1.0	1	
008	lkc08	X	IB				11/12/07 14:32	1.0	1	
009	lkc09	X	BFB				11/12/07 15:07	1.0	2	
010	lkc10	X	20PPB				11/12/07 15:25	1.0	3 4 1	
011	lkc11	X	BFB				11/12/07 16:01	1.0	2	
012	lkc12	X	BFB				11/12/07 16:13	1.0	2	
013	lkc13	TUN	BFB				11/12/07 16:26	1.0	2	
014	lkc14	CCV	20PPB				11/12/07 16:39	1.0	5 4 1	
015	lkc15	LCS	QC414998		Soil	131629	11/12/07 17:53	1.0	6 7 8 9 1	
016	lkc16	X	IB				11/12/07 18:25	1.0	1	
017	lkc17	BLANK	QC414999		Soil	131629	11/12/07 18:58	1.0	1	
018	lkc18	MSS	199163-004		Soil	131629	11/12/07 19:30	0.9259	1	
019	lkc19	SAMPLE	199163-001		Soil	131629	11/12/07 20:02	0.8929	1	
020	lkc20	SAMPLE	199163-002		Soil	131629	11/12/07 20:35	0.8475	1	
021	lkc21	SAMPLE	199163-003		Soil	131629	11/12/07 21:07	0.9615	1	
022	lkc22	SAMPLE	199163-005		Soil	131629	11/12/07 21:39	0.9091	1	
023	lkc23	SAMPLE	199163-006		Soil	131629	11/12/07 22:11	0.9091	1	
024	lkc24	SAMPLE	199160-004		Soil	131629	11/12/07 22:44	0.9091	1	
025	lkc25	SAMPLE	199160-005		Soil	131629	11/12/07 23:16	0.9091	1	
026	lkc26	SAMPLE	199160-006		Soil	131629	11/12/07 23:49	0.8772	1	
027	lkc27	SAMPLE	199160-007		Soil	131629	11/13/07 00:21	0.9615	1	
028	lkc28	MS	QC415008		Soil	131629	11/13/07 00:53	0.9091	1 7 8 6	
029	lkc29	MSD	QC415009		Soil	131629	11/13/07 01:25	1.111	1 7 8 6	1:ACE=100
030	lkc30	X	IB				11/13/07 01:58	1.0	1	
031	lkc31	SAMPLE	199160-003	M	Soil	131629	11/13/07 02:30	500.0	1 9	
032	lkc32	SAMPLE	199153-015	M	Soil	131629	11/13/07 03:03	500.0	1 9	
033	lkc33	SAMPLE	199153-030	M	Soil	131629	11/13/07 03:35	500.0	1 9	

Analyst: ACM Date: 11/13/07 Reviewer: LW Date: 11/13/07

Standards used: 1=S7365 2=S6497 3=S7637 4=S7625 5=S7417 6=S7480 7=S7652 8=S7498 9=S7590

REPORTING SUMMARY FOR 199163 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF	F C V B C F A F D M C M D V D M D D T B T D C D B T D B D M D B D T H D P D E C T E X X S T I P T P B T C C B T B C D D B D D T H C L C R L C C C C T D T C A C E C C C R C C T C Z C C D B I C Z C C X C C B D L C B Y Y T B P C C B R M L L T M T Y C C T C B C C 1 M M E 1 E 1 E L S B E A K E P L C A P C A E P C M B P M P A O P E C B B 1 Z L L Y M B A P Z B B B B B B B M B B B B C B B 2 E E A 1 1 1 N E 1 1 1 A M L 1 1 L 1 A M A K 1 E 1 1 2 A M Z 1 M O E Z R N Z 1 Z Z Z 1 Z P Z Z Z Z P 1 U
199163-001	MSVOA12	N	11/12/07 20:02	0.8929	2 2 3 2 3 2 3 2 3 3
199163-002	MSVOA12	N	11/12/07 20:35	0.8475	
199163-003	MSVOA12	N	11/12/07 21:07	0.9615	
199163-004	MSVOA12	N	11/12/07 19:30	0.9259	+
199163-004	MSVOA06	N	11/13/07 18:34	1.515	
199163-005	MSVOA12	N	11/12/07 21:39	0.9091	
199163-006	MSVOA12	N	11/12/07 22:11	0.9091	
QC414998	MSVOA12	N	11/12/07 17:53	1.0	
QC414999	MSVOA12	N	11/12/07 18:58	1.0	
QC415008	MSVOA12	N	11/13/07 00:53	0.9091	
QC415009	MSVOA12	N	11/13/07 01:25	1.111	
QC415069	MSVOA06	N	11/13/07 10:03	1.0	
QC415070	MSVOA06	N	11/13/07 10:37	1.0	
QC415071	MSVOA06	N	11/13/07 12:47	1.0	
QC415224	MSVOA06	N	11/13/07 19:42	0.9434	
QC415225	MSVOA06	N	11/13/07 20:17	0.9615	

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/12/07

Prepped by: Ken

8260 5030

131629

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	199160 - 3	~~10.~~ 10.0	A	X	12	Screen 500X		
2	4	5.5						
3	5	5.5						
4	6	5.7						
5	7	5.2						
6	199153 - 15	10.0	A	X		Screen 500X		
7	30	10.0		X		Screen 500X		
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	199163 - 001	5.6	B		12			
2	002	5.9						
3	003	5.2						
4	004	5.4	C			MSS		
5	~~005~~ 004	5.4	D			MS		
6	004	4.5	E			MSD		
7	005	5.5	B					
8	006	5.5						
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/13/07

Prepped by: JL

131648

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date	
1	199160-004	5.1	A		6	HL 1X ISTD ↓ MS/MSD			6J
2	-003	0.0125		X		HL 400X High HC in Soil ↑			
3	199153-015	0.025		X		HL 200X High HC			
4	030	0.200		X		ML 25X OD			
5	199132-9A	0.200	A		6	ML 25x,000, conc 5-8 5g each		11/13	RUSH
6	-10A	0.9			6	ML 50,000 comp 1-4		1	
7	10	2.5				ML 2x,000			
8	199211-1	5.2	A						
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	199163-004	5.3	I		6	HL MS		
2	004	5.2	J			HL MSD		
3	004	3.3	K			MLS		
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

BK2351

MS 10A Extraction Log for MeOH

Date & initial	Sample ID	soil wt. (g)	MeOH vol. (mL)	MeOH lot #	Analysis	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
11/8/07 ZE	BLank	10.0	10.0	CU319	8260	S7590	0.010	
↓	199032-1 A	↓	↓	↓	↓	↓	↓	oily sludge
11/12/07 ZE	BLANK	10.0	10.0	CU319	8260	S7590	0.010	
	199141-2 A							
	199132-9 A							comp (5-8) 5g each
	↓ -10	↓	↓	↓	↓	↓	↓	comp (1-4) 5g each
11/12/07 Am	199153-15 A	10.0	10.0	CU319	8260	S7590	0.010	
↓	↓ -30	↓	↓	↓	↓	↓	↓	
	199160-3							

Continued on Page

Read and Understood By

Signed Date Signed Date

8270-SIM
Soil

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX341[7.0]	Batch#:	131644
Lab ID:	199163-001	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg	Prepared:	11/13/07
Basis:	dry	Analyzed:	11/13/07
Diln Fac:	1.000		

Moisture: 18%

Analyte	Result	RL	MDL
Naphthalene	1.9 J	6.2	0.84
2-Methylnaphthalene	4.6 J	6.2	0.87
Acenaphthylene	ND	6.2	0.79
Acenaphthene	ND	6.2	1.2
Fluorene	ND	6.2	1.0
Phenanthrene	2.8 J	6.2	0.99
Anthracene	ND	6.2	0.76
Fluoranthene	ND	6.2	1.1
Pyrene	ND	6.2	0.96
Benzo(a)anthracene	ND	6.2	0.87
Chrysene	ND	6.2	0.89
Benzo(b)fluoranthene	ND	6.2	1.0
Benzo(k)fluoranthene	ND	6.2	1.5
Benzo(a)pyrene	ND	6.2	0.70
Indeno(1,2,3-cd)pyrene	ND	6.2	0.89
Dibenz(a,h)anthracene	ND	6.2	0.85
Benzo(g,h,i)perylene	ND	6.2	0.85

Surrogate	%REC	Limits
Nitrobenzene-d5	55	39-136
2-Fluorobiphenyl	59	42-120
Terphenyl-d14	67	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

39.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	DUP111207	Batch#:	131644
Lab ID:	199163-002	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg	Prepared:	11/13/07
Basis:	dry	Analyzed:	11/13/07
Diln Fac:	1.000		

Moisture: 23%

Analyte	Result	RL	MDL
Naphthalene	ND	6.4	0.87
2-Methylnaphthalene	1.0 J	6.4	0.90
Acenaphthylene	ND	6.4	0.82
Acenaphthene	ND	6.4	1.2
Fluorene	ND	6.4	1.1
Phenanthrene	1.0 J	6.4	1.0
Anthracene	ND	6.4	0.79
Fluoranthene	ND	6.4	1.1
Pyrene	ND	6.4	0.99
Benzo(a)anthracene	ND	6.4	0.90
Chrysene	ND	6.4	0.92
Benzo(b)fluoranthene	ND	6.4	1.0
Benzo(k)fluoranthene	ND	6.4	1.6
Benzo(a)pyrene	ND	6.4	0.72
Indeno(1,2,3-cd)pyrene	ND	6.4	0.93
Dibenz(a,h)anthracene	ND	6.4	0.88
Benzo(g,h,i)perylene	ND	6.4	0.89

Surrogate	%REC	Limits
Nitrobenzene-d5	56	39-136
2-Fluorobiphenyl	61	42-120
Terphenyl-d14	67	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

40.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX342[5.0]	Batch#:	131644
Lab ID:	199163-003	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg	Prepared:	11/13/07
Basis:	dry	Analyzed:	11/14/07
Diln Fac:	10.00		

Moisture: 9%

Analyte	Result	RL	MDL
Naphthalene	8.3 J	54	7.4
2-Methylnaphthalene	7.9 J	54	7.6
Acenaphthylene	ND	54	6.9
Acenaphthene	ND	54	10
Fluorene	ND	54	9.2
Phenanthrene	150	54	8.7
Anthracene	22 J	54	6.7
Fluoranthene	140	54	9.7
Pyrene	220	54	8.4
Benzo(a)anthracene	71	54	7.6
Chrysene	71	54	7.8
Benzo(b)fluoranthene	77	54	8.9
Benzo(k)fluoranthene	38 J	54	13
Benzo(a)pyrene	74	54	6.1
Indeno(1,2,3-cd)pyrene	28 J b	54	7.8
Dibenz(a,h)anthracene	8.3 J b	54	7.4
Benzo(g,h,i)perylene	44 J	54	7.5

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	39-136
2-Fluorobiphenyl	DO	42-120
Terphenyl-d14	DO	34-130

J= Estimated value
b= See narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

41.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX343[5.0]	Batch#:	131644
Lab ID:	199163-004	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg	Prepared:	11/13/07
Basis:	dry	Analyzed:	11/14/07
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL	MDL
Naphthalene	10	5.5	0.87
2-Methylnaphthalene	6.3	5.5	0.74
Acenaphthylene	3.9 J	5.5	0.71
Acenaphthene	0.97 J	5.5	0.77
Fluorene	2.7 J	5.5	0.83
Phenanthrene	21	5.5	0.63
Anthracene	4.5 J	5.5	0.79
Fluoranthene	23	5.5	0.77
Pyrene	27	5.5	0.70
Benzo(a)anthracene	13	5.5	0.90
Chrysene	17	5.5	0.84
Benzo(b)fluoranthene	20	5.5	0.62
Benzo(k)fluoranthene	5.0 J	5.5	0.80
Benzo(a)pyrene	14	5.5	0.74
Indeno(1,2,3-cd)pyrene	10	5.5	0.63
Dibenz(a,h)anthracene	2.9 J	5.5	0.65
Benzo(g,h,i)perylene	12	5.5	0.62

Surrogate	%REC	Limits
Nitrobenzene-d5	75	39-136
2-Fluorobiphenyl	91	42-120
Terphenyl-d14	82	34-130

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

42.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX344[5.0]	Batch#:	131644
Lab ID:	199163-005	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg	Prepared:	11/13/07
Basis:	dry	Analyzed:	11/14/07
Diln Fac:	1.000		

Moisture: 13%

Analyte	Result	RL	MDL
Naphthalene	3.8 J	5.8	1.1
2-Methylnaphthalene	3.3 J	5.8	0.94
Acenaphthylene	10	5.8	0.73
Acenaphthene	ND	5.8	0.97
Fluorene	5.0 J	5.8	0.99
Phenanthrene	55	5.8	0.98
Anthracene	13	5.8	0.86
Fluoranthene	74	5.8	0.93
Pyrene	82	5.8	0.82
Benzo(a)anthracene	45	5.8	0.87
Chrysene	52	5.8	0.90
Benzo(b)fluoranthene	42	5.8	1.4
Benzo(k)fluoranthene	14	5.8	1.2
Benzo(a)pyrene	43	5.8	0.70
Indeno(1,2,3-cd)pyrene	21	5.8	0.97
Dibenz(a,h)anthracene	7.1	5.8	1.0
Benzo(g,h,i)perylene	26	5.8	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	85	39-136
2-Fluorobiphenyl	86	42-120
Terphenyl-d14	83	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX345[5.0]	Batch#:	131644
Lab ID:	199163-006	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg	Prepared:	11/13/07
Basis:	dry	Analyzed:	11/14/07
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL	MDL
Naphthalene	6.7	5.7	1.1
2-Methylnaphthalene	7.2	5.7	0.94
Acenaphthylene	31	5.7	0.72
Acenaphthene	2.1 J	5.7	0.96
Fluorene	19	5.7	0.98
Phenanthrene	140	5.7	0.97
Anthracene	26	5.7	0.86
Fluoranthene	130	5.7	0.93
Pyrene	140	5.7	0.82
Benzo(a)anthracene	65	5.7	0.86
Chrysene	71	5.7	0.89
Benzo(b)fluoranthene	62	5.7	1.4
Benzo(k)fluoranthene	20	5.7	1.2
Benzo(a)pyrene	62	5.7	0.69
Indeno(1,2,3-cd)pyrene	32	5.7	0.96
Dibenz(a,h)anthracene	9.6	5.7	1.0
Benzo(g,h,i)perylene	40	5.7	1.1

Surrogate	%REC	Limits
Nitrobenzene-d5	85	39-136
2-Fluorobiphenyl	86	42-120
Terphenyl-d14	82	34-130

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

44.0

00139

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC415053	Batch#:	131644
Matrix:	Soil	Prepared:	11/13/07
Units:	ug/Kg	Analyzed:	11/13/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.69
2-Methylnaphthalene	ND	5.0	0.71
Acenaphthylene	ND	5.0	0.64
Acenaphthene	ND	5.0	0.94
Fluorene	ND	5.0	0.85
Phenanthrene	ND	5.0	0.81
Anthracene	ND	5.0	0.62
Fluoranthene	ND	5.0	0.90
Pyrene	ND	5.0	0.78
Benzo(a)anthracene	ND	5.0	0.71
Chrysene	ND	5.0	0.72
Benzo(b)fluoranthene	ND	5.0	0.82
Benzo(k)fluoranthene	ND	5.0	1.2
Benzo(a)pyrene	ND	5.0	0.57
Indeno(1,2,3-cd)pyrene	ND	5.0	0.73
Dibenz(a,h)anthracene	ND	5.0	0.69
Benzo(g,h,i)perylene	ND	5.0	0.70

Surrogate	%REC	Limits
Nitrobenzene-d5	68	39-136
2-Fluorobiphenyl	67	42-120
Terphenyl-d14	83	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

45.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC415054	Batch#:	131644
Matrix:	Soil	Prepared:	11/13/07
Units:	ug/Kg	Analyzed:	11/13/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.70	26.65	79	42-120
Pyrene	33.70	23.63	70	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	73	39-136
2-Fluorobiphenyl	68	42-120
Terphenyl-d14	71	34-130

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX343[5.0]	Batch#:	131644
MSS Lab ID:	199163-004	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	ug/Kg	Prepared:	11/13/07
Basis:	dry	Analyzed:	11/15/07
Diln Fac:	1.000		

Type: MS Moisture: 11%
Lab ID: QC415055

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	0.9661	36.92	27.08	71	47-120
Pyrene	27.40	36.92	45.67	49	17-146

Surrogate	%REC	Limits
Nitrobenzene-d5	82	39-136
2-Fluorobiphenyl	77	42-120
Terphenyl-d14	78	34-130

Type: MSD Moisture: 11%
Lab ID: QC415056

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	37.72	28.74	74	47-120	4	32
Pyrene	37.72	51.03	63	17-146	10	47

Surrogate	%REC	Limits
Nitrobenzene-d5	90	39-136
2-Fluorobiphenyl	82	42-120
Terphenyl-d14	83	34-130

RPD= Relative Percent Difference

47.0

CURTIS & TOMPKINS DFTPP TUNE FOR 199163 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291006 File : uk206 Time : 02-NOV-2007 14:11

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	40208	49.54	
68	< 2% of mass 69	0	0.00	
69		52679		
70	< 2% of mass 69	165	0.31	
127	40% - 60% of mass 198	40437	49.82	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5444	6.71	
275	10% - 30% of mass 198	12568	15.48	
365	> 1% of mass 198	1072	1.32	
441	Present, < mass 443	8859	71.19	
442	> 40% and < 100% of mass 198	62530	77.04	
443	17% - 23% of mass 442	12444	19.90	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291006

CURTIS & TOMPKINS DFTPP TUNE FOR 199163 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517441291014 File : uk214 Time : 02-NOV-2007 18:51

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	41709	46.22	
68	< 2% of mass 69	0	0.00	
69		53443		
70	< 2% of mass 69	271	0.51	
127	40% - 60% of mass 198	43936	48.69	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	6233	6.91	
275	10% - 30% of mass 198	15111	16.74	
365	> 1% of mass 198	1241	1.38	
441	Present, < mass 443	11166	72.57	
442	> 40% and < 100% of mass 198	79056	87.60	
443	17% - 23% of mass 442	15387	19.46	

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

517441291014

CURTIS & TOMPKINS DFTPP TUNE FOR 199163 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517457040016 File : ukd16 Time : 13-NOV-2007 19:07

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	27933	57.77	
68	< 2% of mass 69	0	0.00	
69		28109		
70	< 2% of mass 69	138	0.49	
127	40% - 60% of mass 198	26957	55.75	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	3290	6.80	
275	10% - 30% of mass 198	6980	14.44	
365	> 1% of mass 198	660	1.36	
441	Present, < mass 443	4888	76.35	
442	> 40% and < 100% of mass 198	33429	69.13	
443	17% - 23% of mass 442	6402	19.15	

Analyst: LLH Date: 11/14/07 Reviewer: AD Date: 11/14/07

517457040016

CURTIS & TOMPKINS DFTPP TUNE FOR 199163 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527449989008 File : vk808 Time : 08-NOV-2007 21:18

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	105613	53.38	
68	< 2% of mass 69	0	0.00	
69		134730		
70	< 2% of mass 69	630	0.47	
127	40% - 60% of mass 198	108312	54.74	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	13249	6.70	
275	10% - 30% of mass 198	55312	27.95	
365	> 1% of mass 198	5624	2.84	
441	Present, < mass 443	25229	84.31	
442	> 40% and < 100% of mass 198	154304	77.98	
443	17% - 23% of mass 442	29925	19.39	

Analyst: JAJ Date: 11/09/07 Reviewer: LW Date: 11/12/07

527449989008

CURTIS & TOMPKINS DFTPP TUNE FOR 199163 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527458501007 File : vke07 Time : 14-NOV-2007 12:23

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	227914	53.80	
68	< 2% of mass 69	0	0.00	
69		257429		
70	< 2% of mass 69	730	0.28	
127	40% - 60% of mass 198	227264	53.65	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	30128	7.11	
275	10% - 30% of mass 198	116328	27.46	
365	> 1% of mass 198	16049	3.79	
441	Present, < mass 443	54941	84.73	
442	> 40% and < 100% of mass 198	330986	78.13	
443	17% - 23% of mass 442	64845	19.59	

Analyst: AD Date: 11/14/07 Reviewer: LLH Date: 11/14/07

527458501007

CURTIS & TOMPKINS DFTPP TUNE FOR 199163 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527459966001 File : vkf01 Time : 15-NOV-2007 10:06

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	256954	49.09	
68	< 2% of mass 69	0	0.00	
69		331887		
70	< 2% of mass 69	1761	0.53	
127	40% - 60% of mass 198	279978	53.49	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	37586	7.18	
275	10% - 30% of mass 198	136389	26.06	
365	> 1% of mass 198	14890	2.84	
441	Present, < mass 443	58149	85.60	
442	> 40% and < 100% of mass 198	346496	66.20	
443	17% - 23% of mass 442	67928	19.60	

Analyst: AD Date: 11/15/07 Reviewer: LLH Date: 11/15/07

527459966001

CURTIS & TOMPKINS DFTPP TUNE FOR 199163 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP IDF : 1.0
Seqnum : 577399499007 File : sj407 Time : 04-OCT-2007 14:02

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	56723	51.72	
68	< 2% of mass 69	0	0.00	
69		51520		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	54896	50.05	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	7427	6.77	
275	10% - 30% of mass 198	26024	23.73	
365	> 1% of mass 198	3682	3.36	
441	Present, < mass 443	1730	12.57	
442	> 40% and < 100% of mass 198	71352	65.06	
443	17% - 23% of mass 442	13763	19.29	

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

577399499007

CURTIS & TOMPKINS DFTPP TUNE FOR 199163 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 577458580001 File : ske01 Time : 14-NOV-2007 11:00

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	85592	43.53	
68	< 2% of mass 69	0	0.00	
69		79207		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	90912	46.24	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	14701	7.48	
275	10% - 30% of mass 198	39364	20.02	
365	> 1% of mass 198	4894	2.49	
441	Present, < mass 443	8234	49.89	
442	> 40% and < 100% of mass 198	84800	43.13	
443	17% - 23% of mass 442	16505	19.46	

Analyst: AD Date: 11/14/07 Reviewer: LLH Date: 11/14/07

577458580001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517441291001
Units : ug/mL

Name : 2PAHSIM
Date : 02-NOV-2007 14:33
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	uk207	517441291007	0.1/0.5UG/ML PAHDIOX	02-NOV-2007 14:33	S7213
L2	uk208	517441291008	0.2/1.0UG/ML PAHDIOX	02-NOV-2007 15:14	S7214
L3	uk209	517441291009	0.5/2.5UG/ML PAHDIOX	02-NOV-2007 15:55	S7215
L4	uk210	517441291010	1.0/5.0UG/ML PAHDIOX	02-NOV-2007 16:31	S7216
L5	uk211	517441291011	2.0/10.0UG/ML PAHDIO	02-NOV-2007 17:07	S7217
L6	uk212	517441291012	5.0/25.0UG/ML PAHDIO	02-NOV-2007 17:43	S7218
L7	uk213	517441291013	10.0/50.0UG/ML PAHDI	02-NOV-2007 18:19	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0639	1.0823	1.0856	1.1040	1.1332	1.1131	1.0916	AVRG		0.91222		1.0962	2	15	0.05	0.99	
2-Methylnaphthalene	0.6357	0.6327	0.6493	0.6889	0.7064	0.6851	0.6560	AVRG		1.50406		0.6649	4	15	0.05	0.99	
Acenaphthylene	1.8691	1.9772	1.8721	1.8864	1.9509	2.0678	1.9515	AVRG		0.51566		1.9393	4	15	0.05	0.99	
Acenaphthene	1.0159	1.0928	1.0242	1.0541	1.1281	1.1167	1.0762	AVRG		0.93232		1.0726	4	15	0.05	0.99	
Fluorene	1.2548	1.3014	1.2069	1.2491	1.2902	1.3355	1.2057	AVRG		0.79154		1.2634	4	15	0.05	0.99	
Phenanthrene	1.1292m	1.2024	1.1937	1.2045	1.1824	1.1754	1.2048	AVRG		0.84414		1.1846	2	15	0.05	0.99	
Anthracene	1.0203m	1.1253m	1.0649m	1.0639m	1.1298	1.0908m	1.0707	AVRG		0.92521		1.0808	4	15	0.05	0.99	
Fluoranthene	1.0832	1.1668	1.1140	1.1525	1.2037	1.1694	1.2065	AVRG		0.86463		1.1566	4	15	0.05	0.99	
Pyrene	1.8526	2.0391	1.8341	1.8720	1.7668	1.7596	1.6633	AVRG		0.54741		1.8268	6	15	0.05	0.99	
Benzo(a)anthracene	1.1417	1.1877m	1.1715	1.2070	1.2427	1.2768	1.2573	AVRG		0.82502		1.2121	4	15	0.05	0.99	
Chrysene	1.1638m	1.2611m	1.1702m	1.2135m	1.2485	1.1741	1.1845	AVRG		0.83179		1.2022	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3117	1.4346m	1.4072	1.5151	1.4590	1.4492	1.4097	AVRG		0.70094		1.4267	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.2810m	1.4441	1.4226	1.4871	1.4949	1.6051	1.6111	AVRG		0.67660		1.4780	8	15	0.05	0.99	
Benzo(a)pyrene	0.9774m	1.0759	1.0971	1.1613	1.2506	1.2644	1.2978	AVRG		0.86160		1.1606	10	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9592m	0.9941m	1.0273m	1.0226	1.1734	1.2215	1.2664	AVRG		0.91331		1.0949	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6926m	0.8080m	0.7864	0.7933	0.9054	0.9571	1.0173	AVRG		1.17447		0.8514	13	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9227m	0.9829m	0.9663	0.9096	1.0016	1.0677	1.0671	AVRG		1.01188		0.9883	6	15	0.05	0.99	
Nitrobenzene-d5	0.2886m	0.2785m	0.2938m	0.2894m	0.2991	0.3061	0.2988	AVRG		3.40744		0.2935	3	15	0.05	0.99	
2-Fluorobiphenyl	1.3097	1.3536	1.2990	1.2974	1.2619	1.3343	1.2572	AVRG		0.76813		1.3019	3	15	0.05	0.99	
Terphenyl-d14	1.2533	1.2554	1.2006	1.2455	1.2170	1.1718	1.1433	AVRG		0.82481		1.2124	4	15	0.05	0.99	

SGS-TEKLAB

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	-1	1.000	1	2.000	3	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-4	0.200	-5	0.500	-2	1.000	4	2.000	6	5.000	3	10.00	-1
Acenaphthylene	0.100	-4	0.200	2	0.500	-3	1.000	-3	2.000	1	5.000	7	10.00	1
Acenaphthene	0.100	-5	0.200	2	0.500	-5	1.000	-2	2.000	5	5.000	4	10.00	0
Fluorene	0.100	-1	0.200	3	0.500	-4	1.000	-1	2.000	2	5.000	6	10.00	-5
Phenanthrene	0.100	-5	0.200	1	0.500	1	1.000	2	2.000	0	5.000	-1	10.00	2
Anthracene	0.100	-6	0.200	4	0.500	-1	1.000	-2	2.000	5	5.000	1	10.00	-1
Fluoranthene	0.100	-6	0.200	1	0.500	-4	1.000	0	2.000	4	5.000	1	10.00	4
Pyrene	0.100	1	0.200	12	0.500	0	1.000	2	2.000	-3	5.000	-4	10.00	-9
Benzo(a)anthracene	0.100	-6	0.200	-2	0.500	-3	1.000	0	2.000	3	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	5	0.500	-3	1.000	1	2.000	4	5.000	-2	10.00	-1
Benzo(b)fluoranthene	0.100	-8	0.200	1	0.500	-1	1.000	6	2.000	2	5.000	2	10.00	-1
Benzo(k)fluoranthene	0.100	-13	0.200	-2	0.500	-4	1.000	1	2.000	1	5.000	9	10.00	9
Benzo(a)pyrene	0.100	-16	0.200	-7	0.500	-5	1.000	0	2.000	8	5.000	9	10.00	12
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-9	0.500	-6	1.000	-7	2.000	7	5.000	12	10.00	16
Dibenz(a,h)anthracene	0.100	-19	0.200	-5	0.500	-8	1.000	-7	2.000	6	5.000	12	10.00	19
Benzo(g,h,i)perylene	0.100	-7	0.200	-1	0.500	-2	1.000	-8	2.000	1	5.000	8	10.00	8
Nitrobenzene-d5	0.100	-2	0.200	-5	0.500	0	1.000	-1	2.000	2	5.000	4	10.00	2
2-Fluorobiphenyl	0.100	1	0.200	4	0.500	0	1.000	0	2.000	-3	5.000	2	10.00	-3
Terphenyl-d14	0.100	3	0.200	4	0.500	-1	1.000	3	2.000	0	5.000	-3	10.00	-6

JGM 11/02/07 : Manual integrations for tailing/misidentified peaks.

Analyst: JGM Date: 11/02/07 Reviewer: LW Date: 11/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199163 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 517441291001 Cal Date : 02-NOV-2007

ICV 517441291015 (uk215 02-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0962	1.0045	1.000	0.9164	ug/mL	-8	20	
2-Methylnaphthalene	0.6649	0.5940	1.000	0.8935	ug/mL	-11	20	
Acenaphthylene	1.9393	1.8656	1.000	0.9620	ug/mL	-4	20	
Acenaphthene	1.0726	0.9993	1.000	0.9317	ug/mL	-7	20	
Fluorene	1.2634	1.1648	1.000	0.9220	ug/mL	-8	20	
Phenanthrene	1.1846	1.0678	1.000	0.9014	ug/mL	-10	20	
Anthracene	1.0808	1.1002	1.000	1.018	ug/mL	2	20	
Fluoranthene	1.1566	1.1099	1.000	0.9596	ug/mL	-4	20	
Pyrene	1.8268	1.7231	1.000	0.9432	ug/mL	-6	20	
Benzo(a)anthracene	1.2121	1.1245	1.000	0.9278	ug/mL	-7	20	
Chrysene	1.2022	1.1778	1.000	0.9797	ug/mL	-2	20	
Benzo(b)fluoranthene	1.4267	1.2951	1.000	0.9078	ug/mL	-9	20	
Benzo(k)fluoranthene	1.4780	1.5735	1.000	1.065	ug/mL	6	20	
Benzo(a)pyrene	1.1606	1.1339	1.000	0.9770	ug/mL	-2	20	
Indeno(1,2,3-cd)pyrene	1.0949	0.9389	1.000	0.8575	ug/mL	-14	20	
Dibenz(a,h)anthracene	0.8514	0.7382	1.000	0.8670	ug/mL	-13	20	
Benzo(g,h,i)perylene	0.9883	0.8900	1.000	0.9006	ug/mL	-10	20	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 527449989003
Units : ug/mL

Name : 3PAHSIM
Date : 08-NOV-2007 21:39
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vk809	527449989009	ICAL1	08-NOV-2007 21:39	S7213
L2	vk810	527449989010	ICAL2	08-NOV-2007 22:12	S7214
L3	vk811	527449989011	ICAL3	08-NOV-2007 22:46	S7215
L4	vk812	527449989012	ICAL4	08-NOV-2007 23:21	S7216
L5	vk813	527449989013	ICAL5	08-NOV-2007 23:56	S7217
L6	vk814	527449989014	ICAL6	09-NOV-2007 00:32	S7218
L7	vk815	527449989015	ICAL7	09-NOV-2007 01:04	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1005	1.1174	1.1301	1.1427	1.1419	1.1524	1.1274	AVRG		0.88469		1.1303	2	15	0.05	0.99	
2-Methylnaphthalene	0.7478	0.7522	0.7641	0.7694	0.7720	0.7862	0.7768	AVRG		1.30389		0.7669	2	15	0.05	0.99	
Acenaphthylene	1.6168	1.6367	1.7498	1.8547	1.9248	1.9937	1.9522	AVRG		0.54994		1.8184	8	15	0.05	0.99	
Acenaphthene	1.0848m	1.1039m	1.1336	1.1523	1.1634	1.1995	1.1869	AVRG		0.87233		1.1464	4	15	0.05	0.99	
Fluorene	1.3105	1.3324	1.3703	1.3782	1.3935	1.4300	1.4239	AVRG		0.72622		1.3770	3	15	0.05	0.99	
Phenanthrene	1.2260m	1.2527	1.2638	1.2756	1.2856	1.2953	1.2694	AVRG		0.78932		1.2669	2	15	0.05	0.99	
Anthracene	0.9365m	0.9669	1.0205	1.0818	1.1256	1.1745	1.1699	AVRG		0.93635		1.0680	9	15	0.05	0.99	
Fluoranthene	1.2127	1.2395	1.2794	1.3044	1.3451	1.3498	1.3241	AVRG		0.77305		1.2936	4	15	0.05	0.99	
Pyrene	1.4218	1.4780	1.5018	1.5219	1.5199	1.5321	1.4777	AVRG		0.66965		1.4933	3	15	0.05	0.99	
Benzo(a)anthracene	1.1446	1.1658	1.1995	1.2594	1.3011	1.3470	1.3059	AVRG		0.80243		1.2462	6	15	0.05	0.99	
Chrysene	1.1826m	1.2217m	1.2549m	1.2705	1.2842	1.2926	1.2519	AVRG		0.79924		1.2512	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3494m	1.3913m	1.4645m	1.4986	1.5319	1.5622	1.5285	AVRG		0.67787		1.4752	5	15	0.05	0.99	
Benzo(k)fluoranthene	1.3090m	1.3508m	1.3644m	1.4291m	1.4533m	1.5152	1.5091	AVRG		0.70488		1.4187	6	15	0.05	0.99	
Benzo(a)pyrene	1.1475m	1.1915m	1.2340m	1.3096	1.3580	1.4514	1.4477	AVRG		0.76589		1.3057	9	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2534m	1.3086m	1.3575	1.4395	1.4848	1.5706	1.5676	AVRG		0.70126		1.4260	9	15	0.05	0.99	
Dibenz(a,h)anthracene	1.0223	1.0639	1.0988	1.1683	1.2028	1.2826	1.2921	AVRG		0.86092		1.1616	9	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1082	1.1638	1.1822	1.2408	1.2618	1.2822	1.2684	AVRG		0.82281		1.2153	5	15	0.05	0.99	
Nitrobenzene-d5	0.3937m	0.3942m	0.4208	0.4420	0.4713	0.5040	0.5086	AVRG		2.23312		0.4478	11	15	0.05	0.99	
2-Fluorobiphenyl	1.3689	1.3902	1.4139	1.4241	1.4129	1.4172	1.3818	AVRG		0.71364		1.4013	1	15	0.05	0.99	
Terphenyl-d14	1.0154	1.0592	1.0668	1.0868	1.0764	1.0869	1.0605	AVRG		0.93936		1.0646	2	15	0.05	0.99	

SL1995

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	0	1.000	1	2.000	1	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-2	0.200	-2	0.500	0	1.000	0	2.000	1	5.000	3	10.00	1
Acenaphthylene	0.100	-11	0.200	-10	0.500	-4	1.000	2	2.000	6	5.000	10	10.00	7
Acenaphthene	0.100	-5	0.200	-4	0.500	-1	1.000	1	2.000	1	5.000	5	10.00	4
Fluorene	0.100	-5	0.200	-3	0.500	0	1.000	0	2.000	1	5.000	4	10.00	3
Phenanthrene	0.100	-3	0.200	-1	0.500	0	1.000	1	2.000	1	5.000	2	10.00	0
Anthracene	0.100	-12	0.200	-9	0.500	-4	1.000	1	2.000	5	5.000	10	10.00	10
Fluoranthene	0.100	-6	0.200	-4	0.500	-1	1.000	1	2.000	4	5.000	4	10.00	2
Pyrene	0.100	-5	0.200	-1	0.500	1	1.000	2	2.000	2	5.000	3	10.00	-1
Benzo(a)anthracene	0.100	-8	0.200	-6	0.500	-4	1.000	1	2.000	4	5.000	8	10.00	5
Chrysene	0.100	-5	0.200	-2	0.500	0	1.000	2	2.000	3	5.000	3	10.00	0
Benzo(b)fluoranthene	0.100	-9	0.200	-6	0.500	-1	1.000	2	2.000	4	5.000	6	10.00	4
Benzo(k)fluoranthene	0.100	-8	0.200	-5	0.500	-4	1.000	1	2.000	2	5.000	7	10.00	6
Benzo(a)pyrene	0.100	-12	0.200	-9	0.500	-5	1.000	0	2.000	4	5.000	11	10.00	11
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-8	0.500	-5	1.000	1	2.000	4	5.000	10	10.00	10
Dibenz(a,h)anthracene	0.100	-12	0.200	-8	0.500	-5	1.000	1	2.000	4	5.000	10	10.00	11
Benzo(g,h,i)perylene	0.100	-9	0.200	-4	0.500	-3	1.000	2	2.000	4	5.000	6	10.00	4
Nitrobenzene-d5	0.100	-12	0.200	-12	0.500	-6	1.000	-1	2.000	5	5.000	13	10.00	14
2-Fluorobiphenyl	0.100	-2	0.200	-1	0.500	1	1.000	2	2.000	1	5.000	1	10.00	-1
Terphenyl-d14	0.100	-5	0.200	-1	0.500	0	1.000	2	2.000	1	5.000	2	10.00	0

JAJ 11/09/07 : All manual integrations performed in order to match baseline and/or to include the appropriate amount of tailing.

Analyst: JAJ Date: 11/12/07 Reviewer: LW Date: 11/12/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199163 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Name : 3PAHSIM
Calnum : 527449989003 Cal Date : 08-NOV-2007

ICV 527449989016 (vk816 09-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1303	1.0585	1.000	0.9364	ug/mL	-6	20	
2-Methylnaphthalene	0.7669	0.6933	1.000	0.9040	ug/mL	-10	20	
Acenaphthylene	1.8184	1.7016	1.000	0.9358	ug/mL	-6	20	
Acenaphthene	1.1464	1.0684	1.000	0.9320	ug/mL	-7	20	
Fluorene	1.3770	1.2890	1.000	0.9361	ug/mL	-6	20	
Phenanthrene	1.2669	1.1862	1.000	0.9363	ug/mL	-6	20	
Anthracene	1.0680	1.0902	1.000	1.021	ug/mL	2	20	
Fluoranthene	1.2936	1.2479	1.000	0.9647	ug/mL	-4	20	
Pyrene	1.4933	1.4233	1.000	0.9531	ug/mL	-5	20	
Benzo(a)anthracene	1.2462	1.1492	1.000	0.9221	ug/mL	-8	20	
Chrysene	1.2512	1.1868	1.000	0.9486	ug/mL	-5	20	m
Benzo(b)fluoranthene	1.4752	1.4257	1.000	0.9664	ug/mL	-3	20	
Benzo(k)fluoranthene	1.4187	1.3464	1.000	0.9490	ug/mL	-5	20	m
Benzo(a)pyrene	1.3057	1.1894	1.000	0.9109	ug/mL	-9	20	
Indeno(1,2,3-cd)pyrene	1.4260	1.2584	1.000	0.8825	ug/mL	-12	20	
Dibenz(a,h)anthracene	1.1616	1.0630	1.000	0.9152	ug/mL	-8	20	
Benzo(g,h,i)perylene	1.2153	1.1227	1.000	0.9237	ug/mL	-8	20	

m=manual integration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199163 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA08
Calnum : 577399499001
Units : ug/mL

Name : 8PAHSIM
Date : 04-OCT-2007 14:22
X Axis : R

Level	File	Segnum	Sample ID	Analyzed	Stds
L1	sj408	577399499008	ICAL 1	04-OCT-2007 14:22	S7213
L2	sj409	577399499009	ICAL 2	04-OCT-2007 14:56	S7214
L3	sj410	577399499010	ICAL 3	04-OCT-2007 15:30	S7215
L4	sj411	577399499011	ICAL 4	04-OCT-2007 16:04	S7216
L5	sj412	577399499012	ICAL 5	04-OCT-2007 16:39	S7217
L6	sj413	577399499013	ICAL 6	04-OCT-2007 17:12	S7218
L7	sj414	577399499014	ICAL 7	04-OCT-2007 17:48	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0279	1.0515	1.0576	1.0897	1.1167	1.1535	1.2380	AVRG		0.90498		1.1050	7	15	0.05	0.99	
2-Methylnaphthalene	0.6403m	0.6568m	0.6877m	0.7160	0.7280m	0.7787	0.8453	AVRG		1.38539		0.7218	10	15	0.05	0.99	
Acenaphthylene	1.7392	1.8386	1.9029	1.9958	2.0197	2.1992	2.3361	AVRG		0.49888		2.0045	10	15	0.05	0.99	
Acenaphthene	1.0019	1.0569	1.0675	1.1020	1.1192	1.2126	1.2895	AVRG		0.89178		1.1214	9	15	0.05	0.99	
Fluorene	1.1914	1.2346	1.2475	1.3164	1.3582	1.4628	1.5782	AVRG		0.74555		1.3413	10	15	0.05	0.99	
Phenanthrene	1.1189m	1.1515	1.1377	1.1762	1.2097	1.2929	1.3921	AVRG		0.82557		1.2113	8	15	0.05	0.99	
Anthracene	0.9378m	1.0065m	1.0433m	1.0988m	1.1294m	1.2291m	1.3229m	AVRG		0.90116		1.1097	12	15	0.05	0.99	
Fluoranthene	1.1865	1.2445	1.2562	1.3463	1.3710	1.4915	1.6034	AVRG		0.73688		1.3571	11	15	0.05	0.99	
Pyrene	1.1893	1.2221	1.2595	1.2855	1.3234	1.3731	1.3996	AVRG		0.77327		1.2932	6	15	0.05	0.99	
Benzo(a)anthracene	1.0258	1.0731	1.0847	1.1222	1.1667	1.2004	1.2265	AVRG		0.88614		1.1285	6	15	0.05	0.99	
Chrysene	1.0339m	1.0823m	1.0962m	1.1245m	1.1405m	1.1794m	1.1936m	AVRG		0.89167		1.1215	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.1368	1.2311	1.2480	1.3220	1.3494	1.4862	1.5129	AVRG		0.75379		1.3266	10	15	0.05	0.99	
Benzo(k)fluoranthene	1.1967m	1.2520m	1.3252m	1.3825m	1.4218m	1.5105m	1.5616m	AVRG		0.72536		1.3786	10	15	0.05	0.99	
Benzo(a)pyrene	1.0597	1.1129	1.1625	1.2451	1.3016	1.4106	1.4795	AVRG		0.79800		1.2531	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2909	1.4000	1.4491	1.5667	1.6263	1.7915	1.8456	AVRG		0.63810		1.5672	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9958	1.0914	1.1341	1.2279	1.2881	1.4330	1.5289	AVRG		0.80467		1.2427	15	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1512	1.2277	1.2880	1.3571	1.3963	1.5107	1.5496	AVRG		0.73834		1.3544	11	15	0.05	0.99	
Nitrobenzene-d5	0.2170	0.2239	0.2350	0.2499	0.2509	0.2690	0.2799	AVRG		4.05662		0.2465	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2568	1.2885	1.3273	1.3749	1.4096	1.5071	1.5747	AVRG		0.71877		1.3913	8	15	0.05	0.99	
Terphenyl-d14	0.9554	0.9851	1.0067	1.0248	1.0466	1.0897	1.1118	AVRG		0.96951		1.0314	5	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-7	0.200	-5	0.500	-4	1.000	-1	2.000	1	5.000	4	10.00	12
2-Methylnaphthalene	0.100	-11	0.200	-9	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	17
Acenaphthylene	0.100	-13	0.200	-8	0.500	-5	1.000	0	2.000	1	5.000	10	10.00	17
Acenaphthene	0.100	-11	0.200	-6	0.500	-5	1.000	-2	2.000	0	5.000	8	10.00	15
Fluorene	0.100	-11	0.200	-8	0.500	-7	1.000	-2	2.000	1	5.000	9	10.00	18
Phenanthrene	0.100	-8	0.200	-5	0.500	-6	1.000	-3	2.000	0	5.000	7	10.00	15
Anthracene	0.100	-15	0.200	-9	0.500	-6	1.000	-1	2.000	2	5.000	11	10.00	19
Fluoranthene	0.100	-13	0.200	-8	0.500	-7	1.000	-1	2.000	1	5.000	10	10.00	18
Pyrene	0.100	-8	0.200	-6	0.500	-3	1.000	-1	2.000	2	5.000	6	10.00	8
Benzo(a)anthracene	0.100	-9	0.200	-5	0.500	-4	1.000	-1	2.000	3	5.000	6	10.00	9
Chrysene	0.100	-8	0.200	-3	0.500	-2	1.000	0	2.000	2	5.000	5	10.00	6
Benzo(b)fluoranthene	0.100	-14	0.200	-7	0.500	-6	1.000	0	2.000	2	5.000	12	10.00	14
Benzo(k)fluoranthene	0.100	-13	0.200	-9	0.500	-4	1.000	0	2.000	3	5.000	10	10.00	13
Benzo(a)pyrene	0.100	-15	0.200	-11	0.500	-7	1.000	-1	2.000	4	5.000	13	10.00	18
Indeno(1,2,3-cd)pyrene	0.100	-18	0.200	-11	0.500	-8	1.000	0	2.000	4	5.000	14	10.00	18
Dibenz(a,h)anthracene	0.100	-20	0.200	-12	0.500	-9	1.000	-1	2.000	4	5.000	15	10.00	23
Benzo(g,h,i)perylene	0.100	-15	0.200	-9	0.500	-5	1.000	0	2.000	3	5.000	12	10.00	14
Nitrobenzene-d5	0.100	-12	0.200	-9	0.500	-5	1.000	1	2.000	2	5.000	9	10.00	14
2-Fluorobiphenyl	0.100	-10	0.200	-7	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	13
Terphenyl-d14	0.100	-7	0.200	-4	0.500	-2	1.000	-1	2.000	1	5.000	6	10.00	8

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

577399499001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199163 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Name : 8PAHSIM
Calnum : 577399499001 Cal Date : 04-OCT-2007

ICV 577399499015 (sj415 04-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1050	0.9959	1.000	0.9013	ug/mL	-10	20	
2-Methylnaphthalene	0.7218	0.6131	1.000	0.8493	ug/mL	-15	20	
Acenaphthylene	2.0045	1.8534	1.000	0.9246	ug/mL	-8	20	
Acenaphthene	1.1214	1.0220	1.000	0.9114	ug/mL	-9	20	
Fluorene	1.3413	1.2206	1.000	0.9100	ug/mL	-9	20	
Phenanthrene	1.2113	1.0804	1.000	0.8920	ug/mL	-11	20	
Anthracene	1.1097	1.0862	1.000	0.9788	ug/mL	-2	20	m
Fluoranthene	1.3571	1.2300	1.000	0.9064	ug/mL	-9	20	
Pyrene	1.2932	1.2487	1.000	0.9656	ug/mL	-3	20	
Benzo(a)anthracene	1.1285	1.0658	1.000	0.9445	ug/mL	-6	20	
Chrysene	1.1215	1.0593	1.000	0.9445	ug/mL	-6	20	
Benzo(b)fluoranthene	1.3266	1.2480	1.000	0.9407	ug/mL	-6	20	
Benzo(k)fluoranthene	1.3786	1.3256	1.000	0.9615	ug/mL	-4	20	m
Benzo(a)pyrene	1.2531	1.1779	1.000	0.9399	ug/mL	-6	20	
Indeno(1,2,3-cd)pyrene	1.5672	1.4401	1.000	0.9189	ug/mL	-8	20	
Dibenz(a,h)anthracene	1.2427	1.1897	1.000	0.9574	ug/mL	-4	20	
Benzo(g,h,i)perylene	1.3544	1.2837	1.000	0.9478	ug/mL	-5	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : CCV5 IDF : 1.0
Seqnum : 517457040017.1 File : ukd17 Time : 13-NOV-2007 19:26
Cal : 517441291001 Caldate : 02-NOV-2007
Standards: S7217

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0962	1.2760	2.000	2.328	ug/mL	16	20	0.0500	m
2-Methylnaphthalene	0.6649	0.6386	2.000	1.921	ug/mL	-4	20	0.0500	
Acenaphthylene	1.9393	1.8828	2.000	1.942	ug/mL	-3	20	0.0500	
Acenaphthene	1.0726	1.1636	2.000	2.170	ug/mL	8	20	0.0500	
Fluorene	1.2634	1.2188	2.000	1.930	ug/mL	-4	20	0.0500	
Phenanthrene	1.1846	1.3709	2.000	2.315	ug/mL	16	20	0.0500	
Anthracene	1.0808	1.1604	2.000	2.147	ug/mL	7	20	0.0500	
Fluoranthene	1.1566	1.2638	2.000	2.186	ug/mL	9	20	0.0500	
Pyrene	1.8268	1.7406	2.000	1.906	ug/mL	-5	20	0.0500	
Benzo(a)anthracene	1.2121	1.2099	2.000	1.996	ug/mL	0	20	0.0500	
Chrysene	1.2022	1.2685	2.000	2.110	ug/mL	6	20	0.0500	
Benzo(b)fluoranthene	1.4267	1.5615	2.000	2.189	ug/mL	9	20	0.0500	
Benzo(k)fluoranthene	1.4780	1.6530	2.000	2.237	ug/mL	12	20	0.0500	m
Benzo(a)pyrene	1.1606	1.3453	2.000	2.318	ug/mL	16	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0949	1.3318	2.000	2.433	ug/mL	**22**	20	0.0500	c+ ***
Dibenz(a,h)anthracene	0.8514	1.0747	2.000	2.524	ug/mL	**26**	20	0.0500	c+ ***
Benzo(g,h,i)perylene	0.9883	1.1457	2.000	2.319	ug/mL	16	20	0.0500	m
Nitrobenzene-d5	0.2935	0.3092	2.000	2.107	ug/mL	5	20	0.0500	m
2-Fluorobiphenyl	1.3019	1.2162	2.000	1.868	ug/mL	-7	20	0.0500	
Terphenyl-d14	1.2124	1.2821	2.000	2.115	ug/mL	6	20	0.0500	

Analyst: LLH Date: 11/14/07 Reviewer: AD Date: 11/14/07

+=high bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 2/10UG/ML IDF : 1.0
Seqnum : 527458501008.1 File : vke08 Time : 14-NOV-2007 12:44
Cal : 527449989003 Caldate : 08-NOV-2007
Standards: S7217

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1303	1.1259	2.000	1.992	ug/mL	0	20	0.0500	
2-Methylnaphthalene	0.7669	0.7914	2.000	2.064	ug/mL	3	20	0.0500	
Acenaphthylene	1.8184	1.9775	2.000	2.175	ug/mL	9	20	0.0500	
Acenaphthene	1.1464	1.1482	2.000	2.003	ug/mL	0	20	0.0500	
Fluorene	1.3770	1.3389	2.000	1.945	ug/mL	-3	20	0.0500	
Phenanthrene	1.2669	1.2971	2.000	2.048	ug/mL	2	20	0.0500	
Anthracene	1.0680	1.1741	2.000	2.199	ug/mL	10	20	0.0500	
Fluoranthene	1.2936	1.4710	2.000	2.274	ug/mL	14	20	0.0500	
Pyrene	1.4933	1.3112	2.000	1.756	ug/mL	-12	20	0.0500	
Benzo(a)anthracene	1.2462	1.3227	2.000	2.123	ug/mL	6	20	0.0500	
Chrysene	1.2512	1.2842	2.000	2.053	ug/mL	3	20	0.0500	
Benzo(b)fluoranthene	1.4752	1.4063	2.000	1.907	ug/mL	-5	20	0.0500	
Benzo(k)fluoranthene	1.4187	1.3929	2.000	1.964	ug/mL	-2	20	0.0500	
Benzo(a)pyrene	1.3057	1.3468	2.000	2.063	ug/mL	3	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4260	1.3319	2.000	1.868	ug/mL	-7	20	0.0500	
Dibenz(a,h)anthracene	1.1616	1.0843	2.000	1.867	ug/mL	-7	20	0.0500	
Benzo(g,h,i)perylene	1.2153	1.0767	2.000	1.772	ug/mL	-11	20	0.0500	
Nitrobenzene-d5	0.4478	0.5147	2.000	2.299	ug/mL	15	20	0.0500	
2-Fluorobiphenyl	1.4013	1.4331	2.000	2.046	ug/mL	2	20	0.0500	
Terphenyl-d14	1.0646	0.9265	2.000	1.741	ug/mL	-13	20	0.0500	

Analyst: LLH Date: 11/14/07 Reviewer: AD Date: 11/14/07

527458501008.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 2/10UG/ML IDF : 1.0
Seqnum : 527459966002.1 File : vkf02 Time : 15-NOV-2007 10:27
Cal : 527449989003 Caldate : 08-NOV-2007
Standards: S7217

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1303	1.1534	2.000	2.041	ug/mL	2	20	0.0500	
2-Methylnaphthalene	0.7669	0.8205	2.000	2.140	ug/mL	7	20	0.0500	
Acenaphthylene	1.8184	1.8948	2.000	2.084	ug/mL	4	20	0.0500	
Acenaphthene	1.1464	1.0955	2.000	1.911	ug/mL	-4	20	0.0500	
Fluorene	1.3770	1.3054	2.000	1.896	ug/mL	-5	20	0.0500	
Phenanthrene	1.2669	1.2454	2.000	1.966	ug/mL	-2	20	0.0500	
Anthracene	1.0680	1.1250	2.000	2.107	ug/mL	5	20	0.0500	
Fluoranthene	1.2936	1.4384	2.000	2.224	ug/mL	11	20	0.0500	
Pyrene	1.4933	1.3508	2.000	1.809	ug/mL	-10	20	0.0500	
Benzo(a)anthracene	1.2462	1.3565	2.000	2.177	ug/mL	9	20	0.0500	
Chrysene	1.2512	1.3042	2.000	2.085	ug/mL	4	20	0.0500	
Benzo(b)fluoranthene	1.4752	1.4829	2.000	2.011	ug/mL	1	20	0.0500	
Benzo(k)fluoranthene	1.4187	1.4106	2.000	1.989	ug/mL	-1	20	0.0500	
Benzo(a)pyrene	1.3057	1.3675	2.000	2.095	ug/mL	5	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4260	1.3788	2.000	1.934	ug/mL	-3	20	0.0500	
Dibenz(a,h)anthracene	1.1616	1.1126	2.000	1.916	ug/mL	-4	20	0.0500	
Benzo(g,h,i)perylene	1.2153	1.1188	2.000	1.841	ug/mL	-8	20	0.0500	
Nitrobenzene-d5	0.4478	0.5063	2.000	2.261	ug/mL	13	20	0.0500	
2-Fluorobiphenyl	1.4013	1.3823	2.000	1.973	ug/mL	-1	20	0.0500	
Terphenyl-d14	1.0646	0.9991	2.000	1.877	ug/mL	-6	20	0.0500	

Analyst: LLH Date: 11/15/07 Reviewer: JGM Date: 11/16/07

527459966002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199163 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Run Name : 2.0/10 UG/ML IDF : 1.0
Seqnum : 577458580002.1 File : ske02 Time : 14-NOV-2007 11:20
Cal : 577399499001 Caldate : 04-OCT-2007
Standards: S7217

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1050	1.0907	2.000	1.974	ug/mL	-1	20	0.0500	
2-Methylnaphthalene	0.7218	0.6992	2.000	1.937	ug/mL	-3	20	0.0500	m
Acenaphthylene	2.0045	2.1586	2.000	2.154	ug/mL	8	20	0.0500	
Acenaphthene	1.1214	1.2172	2.000	2.171	ug/mL	9	20	0.0500	
Fluorene	1.3413	1.4964	2.000	2.231	ug/mL	12	20	0.0500	
Phenanthrene	1.2113	1.1450	2.000	1.891	ug/mL	-5	20	0.0500	
Anthracene	1.1097	1.1046	2.000	1.991	ug/mL	0	20	0.0500	m
Fluoranthene	1.3571	1.3475	2.000	1.986	ug/mL	-1	20	0.0500	
Pyrene	1.2932	1.2955	2.000	2.004	ug/mL	0	20	0.0500	
Benzo(a)anthracene	1.1285	1.1109	2.000	1.969	ug/mL	-2	20	0.0500	
Chrysene	1.1215	1.1320	2.000	2.019	ug/mL	1	20	0.0500	m
Benzo(b)fluoranthene	1.3266	1.3871	2.000	2.091	ug/mL	5	20	0.0500	
Benzo(k)fluoranthene	1.3786	1.4471	2.000	2.099	ug/mL	5	20	0.0500	m
Benzo(a)pyrene	1.2531	1.3067	2.000	2.086	ug/mL	4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.5672	1.4817	2.000	1.891	ug/mL	-5	20	0.0500	
Dibenz(a,h)anthracene	1.2427	1.1917	2.000	1.918	ug/mL	-4	20	0.0500	
Benzo(g,h,i)perylene	1.3544	1.2184	2.000	1.799	ug/mL	-10	20	0.0500	
Nitrobenzene-d5	0.2465	0.2275	2.000	1.845	ug/mL	-8	20	0.0500	
2-Fluorobiphenyl	1.3913	1.5679	2.000	2.254	ug/mL	13	20	0.0500	
Terphenyl-d14	1.0314	0.9915	2.000	1.923	ug/mL	-4	20	0.0500	

Analyst: LLH Date: 11/14/07 Reviewer: AD Date: 11/14/07

m=manual integration

577458580002.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517457040

Date : 11/13/07
Sequence : MSBNA02 ukd

Reference : ukd17
Analyzed : 11/13/07 19:26

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	6427	8.30	26961	9.88	12949	12.15	17714	14.10	12568	17.68	7775	19.66
		LOWER LIMIT	3214	7.80	13481	9.38	6475	11.65	8857	13.60	6284	17.18	3888	19.16
		UPPER LIMIT	12854	8.80	53922	10.38	25898	12.65	35428	14.60	25136	18.18	15550	20.16
017	CCV	CCV5	6427	8.30	26961	9.88	12949	12.15	17714	14.10	12568	17.68	7775	19.66
018	BLANK	QC415053	6616	8.30	28043	9.87	12556	12.15	17315	14.10	12263	17.67	6211	19.66
019	LCS	QC415054	7158	8.30	31375	9.87	14013	12.15	19843	14.10	15595	17.68	9053	19.66
020	SAMPLE	199153-020	7663	8.30	7961 *	9.88	6183 *	12.17	6537 *	14.06	7274	17.69	5032	19.66
021	SAMPLE	199153-021	8294	8.30	43468	9.88	32908 *	12.17	21421	14.14	17466	17.68	10333	19.66
022	SAMPLE	199153-029	8966	8.30	43995	9.88	0 *	0.00 *	17716	14.15	16215	17.68	8851	19.66
023	SAMPLE	199163-001	6819	8.30	30878	9.87	14030	12.15	20839	14.10	15895	17.67	9244	19.66
024	SAMPLE	199163-002	7302	8.30	30785	9.87	14233	12.15	20646	14.10	15580	17.67	8694	19.66
025	SAMPLE	199163-003	8643	8.30	39457	9.88	18274	12.15	23997	14.10	13079	17.68	6946	19.66
026	MSS	199163-004	8948	8.30	40656	9.87	18971	12.15	25607	14.10	14893	17.67	8078	19.66
027	SAMPLE	199163-005	8826	8.30	40813	9.87	19205	12.15	24765	14.10	14534	17.67	7825	19.66
028	SAMPLE	199163-006	7528	8.30	36047	9.87	16942	12.14	23100	14.10	13624	17.67	7436	19.66
029	SAMPLE	199173-001	7332	8.30	32167	9.87	16423	12.15	23423	14.10	15266	17.67	8397	19.66
030	SAMPLE	199173-002	8297	8.30	38788	9.87	17348	12.15	22424	14.11	12663	17.68	6489	19.66
031	SAMPLE	199173-003	8491	8.30	39331	9.88	17392	12.15	22131	14.11	11771	17.67	5794	19.66
032	SAMPLE	199173-004	8008	8.30	37386	9.87	15862	12.15	20236	14.11	10992	17.68	5200	19.66
033	SAMPLE	199173-005	6545	8.30	44470	9.88	22724	12.17	23566	14.13	11392	17.68	3819 *	19.67
034	SAMPLE	199173-006	7754	8.30	36118	9.88	17340	12.15	22306	14.10	11104	17.68	5301	19.66
035	SAMPLE	199173-007	7897	8.30	37254	9.88	17516	12.15	21950	14.10	11514	17.68	4697	19.67
036	SAMPLE	199173-008	7886	8.30	36721	9.87	17511	12.15	21670	14.11	10950	17.68	4789	19.66
037	SAMPLE	199182-013	9568	8.30	41818	9.88	20649	12.15	27496	14.11	11963	17.69	3810 *	19.67

: 00155

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 527458501

Date : 11/14/07
Sequence : MSBNA03 vke

Reference : vke08
Analyzed : 11/14/07 12:44

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	45746	7.40	158059	9.04	99680	11.34	168528	13.28	191875	16.73	173446	18.46
		LOWER LIMIT	22873	6.90	79030	8.54	49840	10.84	84264	12.78	95938	16.23	86723	17.96
		UPPER LIMIT	91492	7.90	316118	9.54	199360	11.84	337056	13.78	383750	17.23	346892	18.96
008	CCV	2/10UG/ML	45746	7.40	158059	9.04	99680	11.34	168528	13.28	191875	16.73	173446	18.46
009	SAMPLE	199163-005	39842	7.41	141788	9.04	93128	11.34	164917	13.28	174559	16.73	157279	18.46
010	SAMPLE	199163-006	44563	7.41	157643	9.04	102303	11.33	179667	13.28	189108	16.73	166958	18.46
011	SAMPLE	199182-013	44696	7.41	154236	9.04	107718	11.34	192983	13.29	212288	16.76	190588	18.48
012	BLANK	QC415245	50047	7.41	174754	9.04	114238	11.33	196682	13.28	205401	16.73	171944	18.46
013	LCS	QC415246	46043	7.41	164597	9.04	104645	11.33	182089	13.28	198181	16.73	176416	18.45
014	MSS	199193-001	43633	7.41	153615	9.04	102444	11.34	173109	13.28	190350	16.73	170749	18.46
015	MS	QC415247	43061	7.41	152423	9.04	97170	11.33	172187	13.28	190303	16.73	172452	18.46
016	MSD	QC415248	40670	7.41	143382	9.04	93133	11.34	161735	13.28	180242	16.73	163763	18.45
017	SAMPLE	199173-006	39170	7.41	137962	9.04	92413	11.34	147071	13.28	139203	16.73	131020	18.46

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 527459966

Date : 11/15/07
Sequence : MSBNA03 vkf

Reference : vkf02
Analyzed : 11/15/07 10:27

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	37747	7.40	127147	9.04	87869	11.33	148265	13.28	157872	16.73	129832	18.45
		LOWER LIMIT	18874	6.90	63574	8.54	43935	10.83	74133	12.78	78936	16.23	64916	17.95
		UPPER LIMIT	75494	7.90	254294	9.54	175738	11.83	296530	13.78	315744	17.23	259664	18.95
002	CCV	2/10UG/ML	37747	7.40	127147	9.04	87869	11.33	148265	13.28	157872	16.73	129832	18.45
003	MS	QC415055	38123	7.40	130593	9.04	91060	11.33	151523	13.28	145374	16.73	125413	18.46
004	MSD	QC415056	38969	7.41	136341	9.04	91185	11.33	154533	13.28	141780	16.73	123336	18.46
005	SAMPLE	199153-026	43227	7.40	150370	9.03	99556	11.33	161039	13.28	173205	16.73	147044	18.45

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 577458580

Date : 11/14/07
Sequence : MSBNA08 ske

Reference : ske02
Analyzed : 11/14/07 11:20

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	55374	9.04	194217	10.65	108558	12.87	190376	14.77	195306	18.34	151128	20.27
		LOWER LIMIT	27687	8.54	97109	10.15	54279	12.37	95188	14.27	97653	17.84	75564	19.77
		UPPER LIMIT	110748	9.54	388434	11.15	217116	13.37	380752	15.27	390612	18.84	302256	20.77
002	CCV	2.0/10 UG/ML	55374	9.04	194217	10.65	108558	12.87	190376	14.77	195306	18.34	151128	20.27
003	SAMPLE	199182-013	41819	9.06	144949	10.65	126513	12.88	251845	14.82	226811	18.43	176709	20.36
004	SAMPLE	199182-014	38698	9.04	137182	10.65	86078	12.87	174653	14.79	183389	18.38	159397	20.32
005	SAMPLE	199182-015	38938	9.04	138852	10.65	90026	12.88	175123	14.79	183981	18.37	151283	20.31
006	MSS	199163-004	42088	9.04	147720	10.65	86048	12.87	151890	14.77	147097	18.35	130228	20.29
007	LCS	QC414863	40996	9.04	146074	10.65	84011	12.87	145099	14.78	138027	18.34	115254	20.28
008	SAMPLE	199089-004	35839	9.05	132508	10.65	74476	12.88	127896	14.78	126022	18.34	103791	20.28
009	SAMPLE	199173-002	40325	9.04	147255	10.65	83103	12.87	137503	14.78	152660	18.34	145383	20.28
010	SAMPLE	199173-006	64794	9.04	235139	10.65	143717	12.87	255088	14.78	273373	18.35	244615	20.29
011	SAMPLE	199173-005	46409	9.05	201257	10.65	171440	12.90	231587	14.80	203928	18.35	162508	20.29
012	SAMPLE	199153-020	35641	9.04	142654	10.65	96727	12.88	152431	14.78	132127	18.34	104575	20.28
013	SAMPLE	199153-021	35832	9.04	141092	10.65	95676	12.88	151762	14.78	127930	18.34	98602	20.28
014	SAMPLE	199153-029	44415	9.05	175736	10.65	138401	12.88	212387	14.79	166813	18.34	127064	20.28
015	SAMPLE	199153-030	17613 *	9.04	180525	10.66	313907 *	12.53	168100	14.52	18124 *	18.02	121053	20.29
016	SAMPLE	199153-030	39446	9.04	156026	10.65	105150	12.88	180388	14.78	161512	18.34	126367	20.28
017	SAMPLE	199173-005	41221	9.05	167026	10.65	124453	12.88	184761	14.78	173208	18.34	139207	20.28

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517441291

Instrument : MSBNA02
Method : EPA 8270C, EPA 8270C-SIM
Begun : 11/02/07 10:51
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	uk201	TUN	DFTPP/PEM 50UG/ML			11/02/07 10:51	1.0	1	
002	uk202	TUN	DFTPP/PEM 50UG/ML			11/02/07 11:36	1.0	1	
003	uk203	CCV	RT CHECK			11/02/07 12:01	1.0	2	21:DIOXANE14=74
004	uk204	CCV	RT CHECK			11/02/07 12:55	1.0	2	15:DIOXANE14=64
005	uk205	TUN	DFTPP/PEM 50UG/ML			11/02/07 13:40	1.0	1	
006	uk206	TUN	DFTPP/PEM 50UG/ML			11/02/07 14:11	1.0	1	
007	uk207	ICAL	0.1/0.5UG/ML PAHDIOX			11/02/07 14:33	1.0	3	
008	uk208	ICAL	0.2/1.0UG/ML PAHDIOX			11/02/07 15:14	1.0	4	
009	uk209	ICAL	0.5/2.5UG/ML PAHDIOX			11/02/07 15:55	1.0	5	
010	uk210	ICAL	1.0/5.0UG/ML PAHDIOX			11/02/07 16:31	1.0	6	
011	uk211	ICAL	2.0/10.0UG/ML PAHDIO			11/02/07 17:07	1.0	7	
012	uk212	ICAL	5.0/25.0UG/ML PAHDIO			11/02/07 17:43	1.0	8	
013	uk213	ICAL	10.0/50.0UG/ML PAHDI			11/02/07 18:19	1.0	2	
014	uk214	TUN	DFTPP/PEM 50UG/ML			11/02/07 18:51	1.0	1	
015	uk215	ICV/CCV	10/1UG/ML			11/02/07 19:13	1.0	9	
016	uk216	BLANK	QC413150	Water	131165	11/02/07 20:03	1.0	10	
017	uk217	BS	QC413151	Water	131165	11/02/07 20:40	1.0	10	
018	uk218	BSD	QC413152	Water	131165	11/02/07 21:18	1.0	10	
019	uk219	BLANK	QC413366	Soil	131224	11/02/07 21:55	1.0	10	
020	uk220	LCS	QC413367	Soil	131224	11/02/07 22:32	1.0	10	
021	uk221	SAMPLE	198837-001	Soil	131224	11/02/07 23:10	1.0	10	
022	uk222	MSS	198767-005	Soil	131224	11/02/07 23:47	1.0	10	
023	uk223	MS	QC413368	Soil	131224	11/03/07 00:23	1.0	10	
024	uk224	MSD	QC413369	Soil	131224	11/03/07 00:59	1.0	10	
025	uk225	SAMPLE	198799-001	Water	131165	11/03/07 01:35	1.0	10	
026	uk226	BLANK	QC413563	Soil	131279	11/03/07 02:11	1.0	10	
027	uk227	LCS	QC413564	Soil	131279	11/03/07 02:46	1.0	10	
028	uk228	SAMPLE	198880-001	Soil	131279	11/03/07 03:22	2.0	10	
029	uk229	SAMPLE	198880-002	Soil	131279	11/03/07 03:58	2.0	10	
030	uk230	MSS	198903-001	Soil	131279	11/03/07 04:35	1.0	10	
031	uk231	SAMPLE	198903-002	Soil	131279	11/03/07 05:11	3.0	10	
032	uk232	SAMPLE	198903-003	Soil	131279	11/03/07 05:48	5.0	10	
033	uk233	SAMPLE	198903-006	Soil	131279	11/03/07 06:25	1.0	10	

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592 10=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517457040

Instrument : MSBNA02 Begun : 11/13/07 09:20
Method : EPA 8270C, EPA 8270C-SIM, GC/MS SIM SOP Version : 8270-SIM_rv0, bna

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ukd01	IB	IB			11/13/07 09:20	1.0		
002	ukd02	TUN	DFTPP/PEM 50UG/ML			11/13/07 09:44	1.0	1	
003	ukd03	TUN	DFTPP/PEM 50UG/ML			11/13/07 10:31	1.0	1	
004	ukd04	TUN	DFTPP/PEM 50UG/ML			11/13/07 10:51	1.0	1	
005	ukd05	CCV	2UG/ML			11/13/07 11:21	1.0	2	
006	ukd06	BLANK	QC415050	Water	131643	11/13/07 11:50	1.0	3	
007	ukd07	BS	QC415051	Water	131643	11/13/07 12:19	1.0	3	
008	ukd08	BSD	QC415052	Water	131643	11/13/07 12:50	1.0	3	
009	ukd09	SAMPLE	199098-014	Water	131643	11/13/07 13:21	1.0	3	
010	ukd10	SAMPLE	199136-002	Water	131643	11/13/07 13:52	1.0	3	
011	ukd11	SAMPLE	199136-004	Water	131643	11/13/07 14:23	1.0	3	
012	ukd12	SAMPLE	199136-005	Water	131643	11/13/07 14:51	1.0	3	
013	ukd13	SAMPLE	199136-006	Water	131643	11/13/07 15:20	1.0	3	
014	ukd14	SAMPLE	199136-007	Water	131643	11/13/07 15:49	1.0	3	
015	ukd15	SAMPLE	199136-010	Water	131643	11/13/07 16:18	1.0	3	
016	ukd16	TUN	DFTPP/PEM 50UG/ML			11/13/07 19:07	1.0	1	
017	ukd17	CCV	CCV5			11/13/07 19:26	1.0	4	
018	ukd18	BLANK	QC415053	Soil	131644	11/13/07 20:02	1.0	3	
019	ukd19	LCS	QC415054	Soil	131644	11/13/07 20:37	1.0	3	
020	ukd20	SAMPLE	199153-020	Soil	131644	11/13/07 21:14	1.0	3	6:MTNPH2=830
021	ukd21	SAMPLE	199153-021	Soil	131644	11/13/07 21:49	1.0	3	3:MTNPH2=35
022	ukd22	SAMPLE	199153-029	Soil	131644	11/13/07 22:25	1.0	3	3:MTNPH1=41
023	ukd23	SAMPLE	199163-001	Soil	131644	11/13/07 23:01	1.0	3	
024	ukd24	SAMPLE	199163-002	Soil	131644	11/13/07 23:37	1.0	3	
025	ukd25	SAMPLE	199163-003	Soil	131644	11/14/07 00:13	10.0	3	
026	ukd26	MSS	199163-004	Soil	131644	11/14/07 00:50	3.0	3	
027	ukd27	SAMPLE	199163-005	Soil	131644	11/14/07 01:27	3.0	3	
028	ukd28	SAMPLE	199163-006	Soil	131644	11/14/07 02:03	2.0	3	
029	ukd29	SAMPLE	199173-001	Soil	131644	11/14/07 02:40	1.0	3	
030	ukd30	SAMPLE	199173-002	Soil	131644	11/14/07 03:17	10.0	3	
031	ukd31	SAMPLE	199173-003	Soil	131644	11/14/07 03:53	10.0	3	
032	ukd32	SAMPLE	199173-004	Soil	131644	11/14/07 04:28	20.0	3	
033	ukd33	SAMPLE	199173-005	Soil	131644	11/14/07 05:04	10.0	3	4:MTNPH2=45
034	ukd34	SAMPLE	199173-006	Soil	131644	11/14/07 05:40	5.0	3	
035	ukd35	SAMPLE	199173-007	Soil	131644	11/14/07 06:15	10.0	3	
036	ukd36	SAMPLE	199173-008	Soil	131644	11/14/07 06:51	10.0	3	
037	ukd37	SAMPLE	199182-013	Soil	131644	11/14/07 07:26	3.0	3	

Standards used: 1=S7320 2=S6860 3=S7591 4=S7217

: 09159

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527449989

Instrument : MSBNA03
Method : EPA 8270C, EPA 8270C-SIM

Begun : 11/08/07 11:49
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vk801	TUN	DFTPP/PEM 50UG/ML			11/08/07 11:49	1.0	1	
002	vk802	TUN	DFTPP/PEM 50UG/ML			11/08/07 15:53	1.0	1	
003	vk803	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:04	1.0	1	
004	vk804	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:23	1.0	1	
005	vk805	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:51	1.0	1	
006	vk806	CCV	RTUPDATE - SCAN MODE			11/08/07 18:11	1.0	2	16:BZBF=16
007	vk807	CCV	RTUPDATE - SIM MODE			11/08/07 20:32	1.0	2	16:DIOXANE14=94
008	vk808	TUN	DFTPP/PEM 50UG/ML			11/08/07 21:18	1.0	1	
009	vk809	ICAL	ICAL1			11/08/07 21:39	1.0	3	
010	vk810	ICAL	ICAL2			11/08/07 22:12	1.0	4	
011	vk811	ICAL	ICAL3			11/08/07 22:46	1.0	5	
012	vk812	ICAL	ICAL4			11/08/07 23:21	1.0	6	
013	vk813	ICAL	ICAL5			11/08/07 23:56	1.0	7	
014	vk814	ICAL	ICAL6			11/09/07 00:32	1.0	8	
015	vk815	ICAL	ICAL7			11/09/07 01:04	1.0	2	
016	vk816	ICV	1/10 ICV			11/09/07 01:38	1.0	9	

Analyst: JAJ Date: 11/12/07 Reviewer: LW Date: 11/12/07

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527458501

Instrument : MSBNA03 Begun : 11/14/07 09:41
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vke01	TUN	DFTPP/PEM 50UG/ML			11/14/07 09:41	1.0	1
002	vke02	TUN	DFTPP/PEM 50UG/ML			11/14/07 10:01	1.0	1
003	vke03	TUN	DFTPP/PEM 50UG/ML			11/14/07 10:30	1.0	1
004	vke04	TUN	DFTPP/PEM 50UG/ML			11/14/07 11:12	1.0	1
005	vke05	TUN	DFTPP/PEM 50UG/ML			11/14/07 11:39	1.0	1
006	vke06	TUN	DFTPP/PEM 50UG/ML			11/14/07 11:58	1.0	1
007	vke07	TUN	DFTPP/PEM 50UG/ML			11/14/07 12:23	1.0	1
008	vke08	CCV	2/10UG/ML			11/14/07 12:44	1.0	2
009	vke09	SAMPLE	199163-005	Soil	131644	11/14/07 13:21	1.0	3
010	vke10	SAMPLE	199163-006	Soil	131644	11/14/07 13:55	1.0	3
011	vke11	SAMPLE	199182-013	Soil	131644	11/14/07 14:30	3.0	3
012	vke12	BLANK	QC415245	Soil	131688	11/14/07 16:53	1.0	3
013	vke13	LCS	QC415246	Soil	131688	11/14/07 17:25	1.0	3
014	vke14	MSS	199193-001	Soil	131688	11/14/07 18:01	1.0	3
015	vke15	MS	QC415247	Soil	131688	11/14/07 18:37	1.0	3
016	vke16	MSD	QC415248	Soil	131688	11/14/07 19:10	1.0	3
017	vke17	SAMPLE	199173-006	Soil	131644	11/14/07 19:44	2.0	3

Standards used: 1=S7320 2=S7217 3=S7386

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527459966

Instrument : MSBNA03 Begun : 11/15/07 10:06
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vkf01	TUN	DFTPP/PEM 50UG/ML			11/15/07 10:06	1.0	1
002	vkf02	CCV	2/10UG/ML			11/15/07 10:27	1.0	2
003	vkf03	MS	QC415055	Soil	131644	11/15/07 11:53	1.0	3
004	vkf04	MSD	QC415056	Soil	131644	11/15/07 12:27	1.0	3
005	vkf05	SAMPLE	199153-026	Water	131672	11/15/07 13:00	1.0	3
006	vkf06	TUN	DFTPP/PEM 50UG/ML			11/15/07 21:05	1.0	1
007	vkf07	CCV	1/5UG/ML			11/15/07 21:24	1.0	4
008	vkf08	BLANK	QC415796	Soil	131815	11/15/07 22:47	1.0	5
009	vkf09	LCS	QC415797	Soil	131815	11/15/07 23:22	1.0	5
010	vkf10	SAMPLE	199089-011	Soil	131815	11/15/07 23:56	1.0	5
011	vkf11	SAMPLE	199235-001	Soil	131815	11/16/07 00:30	1.0	5
012	vkf12	SAMPLE	199248-002	Soil	131815	11/16/07 01:04	5.0	5
013	vkf13	SAMPLE	199254-001	Soil	131815	11/16/07 01:38	10.0	5
014	vkf14	SAMPLE	199254-002	Soil	131815	11/16/07 02:14	10.0	5
015	vkf15	SAMPLE	199086-001	Soil	131815	11/16/07 02:48	25.0	5
016	vkf16	SAMPLE	199086-002	Soil	131815	11/16/07 03:21	10.0	5
017	vkf17	MSS	199086-003	Soil	131815	11/16/07 03:54	10.0	5
018	vkf18	SAMPLE	199086-004	Soil	131815	11/16/07 04:29	25.0	5
019	vkf19	SAMPLE	199086-005	Soil	131815	11/16/07 05:01	10.0	5
020	vkf20	SAMPLE	199086-006	Soil	131815	11/16/07 05:34	25.0	5

Standards used: 1=S7320 2=S7217 3=S7386 4=S7216 5=S7591

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577399499

Instrument : MSBNA08 Begun : 10/04/07 10:19
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	sj402	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:19	1.0	1
003	sj403	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:39	1.0	1
004	sj404	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:53	1.0	1
005	sj405	CCV	CCV RT CHECK			10/04/07 12:22	1.0	2
006	sj406	CCV	CCV RT CHECK			10/04/07 13:22	1.0	3
007	sj407	TUN	DFTPP			10/04/07 14:02	1.0	1
008	sj408	ICAL	ICAL 1			10/04/07 14:22	1.0	4
009	sj409	ICAL	ICAL 2			10/04/07 14:56	1.0	5
010	sj410	ICAL	ICAL 3			10/04/07 15:30	1.0	3
011	sj411	ICAL	ICAL 4			10/04/07 16:04	1.0	2
012	sj412	ICAL	ICAL 5			10/04/07 16:39	1.0	6
013	sj413	ICAL	ICAL 6			10/04/07 17:12	1.0	7
014	sj414	ICAL	ICAL 7			10/04/07 17:48	1.0	8
015	sj415	ICV	ICV			10/04/07 18:23	1.0	9
016	sj416	TUN	DFTPP			10/04/07 18:58	1.0	1
017	sj417	CCV	CCV 4			10/04/07 19:18	1.0	2
018	sj418	SAMPLE	198013-014	Soil	130099	10/04/07 19:58	1.0	10
019	sj419	BLANK	QC408688	Soil	130099	10/04/07 20:32	1.0	10
020	sj420	LCS	QC408689	Soil	130099	10/04/07 21:07	1.0	10
021	sj421	SAMPLE	198013-016	Soil	130099	10/04/07 21:42	1.0	10
022	sj422	MSS	198013-018	Soil	130099	10/04/07 22:16	1.0	10
023	sj423	MS	QC408690	Soil	130099	10/04/07 22:51	1.0	10
024	sj424	MSD	QC408691	Soil	130099	10/04/07 23:25	1.0	10
025	sj425	SAMPLE	198013-008	Soil	130099	10/04/07 23:59	3.0	10
026	sj426	SAMPLE	198013-017	Soil	130099	10/05/07 00:33	1.0	10
027	sj427	SAMPLE	198013-011	Soil	130099	10/05/07 01:07	1.0	10
028	sj428	SAMPLE	198004-009	Water	130094	10/05/07 01:41	1.0	10

Standards used: 1=S7320 2=S7216 3=S7215 4=S7213 5=S7214 6=S7217 7=S7218 8=S7219 9=S6709 10=S7212

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577458580

Instrument : MSBNA08
Method : EPA 8270C, EPA 8270C-SIM

Begun : 11/14/07 11:00
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ske01	TUN	DFTPP/PEM 50UG/ML			11/14/07 11:00	1.0	1	
002	ske02	CCV	2.0/10 UG/ML			11/14/07 11:20	1.0	2	
003	ske03	SAMPLE	199182-013	Soil	131644	11/14/07 12:02	1.0	3	2:ANTH=13
004	ske04	SAMPLE	199182-014	Soil	131644	11/14/07 12:36	2.0	3	
005	ske05	SAMPLE	199182-015	Soil	131644	11/14/07 13:09	2.0	3	
006	ske06	MSS	199163-004	Soil	131644	11/14/07 13:42	1.0	3	
007	ske07	LCS	QC414863	Soil	131596	11/14/07 14:15	1.0	3	
008	ske08	SAMPLE	199089-004	Soil	131596	11/14/07 14:55	5.0	3	
009	ske09	SAMPLE	199173-002	Soil	131644	11/14/07 15:29	5.0	3	
010	ske10	SAMPLE	199173-006	Soil	131644	11/14/07 16:03	2.0	3	
011	ske11	SAMPLE	199173-005	Soil	131644	11/14/07 16:36	20.0	3	2:MTNPH1=34
012	ske12	SAMPLE	199153-020	Soil	131644	11/14/07 17:10	100.0	3	
013	ske13	SAMPLE	199153-021	Soil	131644	11/14/07 17:43	10.0	3	
014	ske14	SAMPLE	199153-029	Soil	131644	11/14/07 18:16	10.0	3	
015	ske15	SAMPLE	199153-030	Soil	131688	11/14/07 18:52	1.0	3	6:MTNPH2=42
016	ske16	SAMPLE	199153-030	Soil	131688	11/14/07 19:34	100.0	3	
017	ske17	SAMPLE	199173-005	Soil	131644	11/14/07 20:09	100.0	3	

Standards used: 1=S7320 2=S7217 3=S7591

REPORTING SUMMARY FOR 199163 MSSIM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FL	PHAN	ANTH	FLA	PYR	BZAA	CHRY	BZBF	BZBK	BZAP	INP1	DBAH	BZGH	NO2B	PHEN	PHEN2
199163-001	MSBNA02	11/13/07 23:01	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
199163-002	MSBNA02	11/13/07 23:37	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
199163-003	MSBNA02	11/14/07 00:13	10.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
199163-004	MSBNA02	11/14/07 00:50	3.0																				
199163-004	MSBNA08	11/14/07 13:42	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
199163-005	MSBNA02	11/14/07 01:27	3.0																				
199163-005	MSBNA03	11/14/07 13:21	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
199163-006	MSBNA02	11/14/07 02:03	2.0																				
199163-006	MSBNA03	11/14/07 13:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC415053	MSBNA02	11/13/07 20:02	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC415054	MSBNA02	11/13/07 20:37	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC415055	MSBNA03	11/15/07 11:53	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC415056	MSBNA03	11/15/07 12:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SAMPLE PREPARATION SUMMARY

Batch # : 131644
Started By : DJT
Method : 3550B
Spike #1 ID : S7612
Prep Date : 13-NOV-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7566
Analysis : 8270-SIM
Finished By : DJT
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
199153-020		Soil	30.03	1	1	0.0333		1				8270-SIM	
199153-021		Soil	30.14	1	1	0.03318		1				8270-SIM	
199153-029		Soil	29.97	1	1	0.03337		1				8270-SIM	
199163-001		Soil	29.64	1	1	0.03374		1				8270-SIM	
199163-002		Soil	30.45	1	1	0.03284		1				8270-SIM	
199163-003		Soil	30.45	1	1	0.03284		1				8270-SIM	
199163-004		Soil	30.47	1	1	0.03282		1				8270-SIM	mss
199163-005		Soil	29.9	1	1	0.03344		1				8270-SIM	
199163-006		Soil	29.73	1	1	0.03364		1				8270-SIM	
199173-001		Soil	29.56	1	1	0.03383		1				8270-SIM	
199173-002		Soil	29.83	1	1	0.03352		1				8270-SIM	
199173-003		Soil	30.47	1	1	0.03282		1				8270-SIM	
199173-004		Soil	30.37	1	1	0.03293		1				8270-SIM	
199173-005		Soil	29.86	1	1	0.03349		1				8270-SIM	
199173-006		Soil	29.7	1	1	0.03367		1				8270-SIM	
199173-007		Soil	29.93	1	1	0.03341		1				8270-SIM	
199173-008		Soil	29.72	1	1	0.03365		1				8270-SIM	
199182-013		Soil	29.93	1	1	0.03341		1				8270-SIM	
199182-014		Soil	29.96	1	1	0.03338		1				8270-SIM	
199182-015		Soil	29.75	1	1	0.03361		1				8270-SIM	
QC415053	BLANK	Soil	29.83	1	1	0.03352		1				8270-SIM	
QC415054	LCS	Soil	29.67	1	1	0.0337		1	1			8270-SIM	
QC415055	MS	Soil	30.43	1	1	0.03286		1	1			8270-SIM	
QC415056	MSD	Soil	29.79	1	1	0.03357		1	1			8270-SIM	

AD 11/14/07 : Reviewed paperwork

LLH 11/15/07 : reviewed paperwork

Analyst: AD Date: 11/15/07 Reviewer: LLH Date: 11/15/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 9 **BK 2614**

LIMS Batch No: 131644 Extraction Method:
LIMS Analysis 8270-SIM ☒ EPA 3550b Sonication
Date Extracted: 11/13/07 ☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	199153-020	30.03	1.0		
	021	30.14			
	029	29.97			
	199163-001	29.64			
5	002	30.45			
	003	~~30.47~~ 30.45			
	004	30.47			MSS
	005	29.90			
	006	29.73			
10	199173-001	29.56			
	002	29.83			
	003	30.47			
	004	30.37			
	005	29.86			
15	006	29.70			
	007	29.93			
	008	29.72			
	199182-013	29.93			
	014	29.96			
20	015	29.75			
	MB QC 415053	29.83			
	LCS 4	29.67			
	MS 5	30.43			
	MSD 6	29.79			
					DJT 11/13/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM41158737	DJT 11/13/07
1.0 mL of surrogate solution was added to all samples	57612A	
1.0 mL of matrix spiking solution was added to all spikes	57566B	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM41177	
Acetone	EM41156	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ GRANULAR Na_2SO_4	EM41158737	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓	

11/13/07
Extraction Chemist / Date

Continued from page —
Continued on page —

11/14/07
Reviewed by / Date

Sample ID	Weight(g)	Analysis	Batch #	Comments
199182-013	50.14	TEHM		Possible concrete in sample comp @25g each 1-4A
014	49.94			5-8A
015	50.08			9-12A
199182-013	29.93	8270-SIM	131644	Possible concrete in sample comp @25g each 1-4A
014	29.96			5-8A
015	29.75			9-12A
				RFW 11/2/07
199163-001A	29.64	8270-SIM	131644	
002	30.45			
003	30.45			
004	30.47			MSS
005	29.90			
006	29.73			
199173-001	29.56			aliased ~~199173~~ 199094-002
002	29.83			aliased 199094-003
003	30.47			aliased 199094-004
004	30.37			aliased 199094-005
005	29.86			aliased 199094-006
006	29.70			aliased 199094-012
007	29.93			aliased 199094-018
008	29.72			aliased 199094-019
199153-020	30.03			
021	30.14			
024	29.97			
030	30.07			
199146-003	30.18			
007	30.49			
MB	29.83		131644	EMH71587J7
LCS	29.67			199163-001A
MS	30.43			MSD 11/12/07
MSD	29.79			

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd.

Metals
(Soil)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199163	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 EX 2 Presidio
Field ID:	1065EX341[7.0]	Diln Fac:	1.000
Lab ID:	199163-001	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/13/07
Basis:	dry		

Moisture: 18%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.47 J	0.61	0.10	131692	11/14/07	EPA 3050B	EPA 6010B
Arsenic	3.1	0.30	0.059	131692	11/14/07	EPA 3050B	EPA 6010B
Barium	110	0.30	0.0056	131692	11/14/07	EPA 3050B	EPA 6010B
Beryllium	0.42	0.12	0.0025	131692	11/14/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.30	0.0032	131692	11/14/07	EPA 3050B	EPA 6010B
Chromium	59	0.30	0.020	131692	11/14/07	EPA 3050B	EPA 6010B
Cobalt	12	0.30	0.0093	131692	11/14/07	EPA 3050B	EPA 6010B
Copper	32	0.30	0.033	131692	11/14/07	EPA 3050B	EPA 6010B
Lead	6.1	0.27	0.091	131692	11/14/07	EPA 3050B	EPA 6010B
Mercury	0.030	0.024	0.0063	131659	11/13/07	METHOD	EPA 7471A
Molybdenum	0.22 J	0.30	0.027	131692	11/14/07	EPA 3050B	EPA 6010B
Nickel	34	0.30	0.022	131692	11/14/07	EPA 3050B	EPA 6010B
Selenium	ND	0.61	0.093	131692	11/14/07	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.022	131692	11/14/07	EPA 3050B	EPA 6010B
Thallium	ND	0.61	0.041	131692	11/14/07	EPA 3050B	EPA 6010B
Vanadium	56	0.30	0.025	131692	11/14/07	EPA 3050B	EPA 6010B
Zinc	48	1.2	0.034	131692	11/14/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199163	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 EX 2 Presidio
Field ID:	DUP111207	Diln Fac:	1.000
Lab ID:	199163-002	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/13/07
Basis:	dry		

Moisture: 23%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.30 J	0.65	0.11	131692	11/14/07	EPA 3050B	EPA 6010B
Arsenic	2.9	0.32	0.063	131692	11/14/07	EPA 3050B	EPA 6010B
Barium	89	0.32	0.0059	131692	11/14/07	EPA 3050B	EPA 6010B
Beryllium	0.33	0.13	0.0026	131692	11/14/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.32	0.0034	131692	11/14/07	EPA 3050B	EPA 6010B
Chromium	79	0.32	0.021	131692	11/14/07	EPA 3050B	EPA 6010B
Cobalt	13	0.32	0.0099	131692	11/14/07	EPA 3050B	EPA 6010B
Copper	27	0.32	0.035	131692	11/14/07	EPA 3050B	EPA 6010B
Lead	4.4	0.29	0.097	131692	11/14/07	EPA 3050B	EPA 6010B
Mercury	0.064	0.026	0.0057	131659	11/13/07	METHOD	EPA 7471A
Molybdenum	ND	0.32	0.028	131692	11/14/07	EPA 3050B	EPA 6010B
Nickel	42	0.32	0.023	131692	11/14/07	EPA 3050B	EPA 6010B
Selenium	ND	0.65	0.099	131692	11/14/07	EPA 3050B	EPA 6010B
Silver	ND	0.32	0.023	131692	11/14/07	EPA 3050B	EPA 6010B
Thallium	ND	0.65	0.044	131692	11/14/07	EPA 3050B	EPA 6010B
Vanadium	56	0.32	0.027	131692	11/14/07	EPA 3050B	EPA 6010B
Zinc	37	1.3	0.036	131692	11/14/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199163	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 EX 2 Presidio
Field ID:	1065EX342[5.0]	Diln Fac:	1.000
Lab ID:	199163-003	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/13/07
Basis:	dry		

Moisture: 9%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	2.2	0.55	0.028	131692	11/14/07	EPA 3050B	EPA 6010B
Arsenic	2.7	0.27	0.051	131692	11/14/07	EPA 3050B	EPA 6010B
Barium	74	0.27	0.0048	131692	11/14/07	EPA 3050B	EPA 6010B
Beryllium	0.22	0.11	0.0021	131692	11/14/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.27	0.0027	131692	11/14/07	EPA 3050B	EPA 6010B
Chromium	50	0.27	0.017	131692	11/14/07	EPA 3050B	EPA 6010B
Cobalt	7.8	0.27	0.0080	131692	11/14/07	EPA 3050B	EPA 6010B
Copper	21	0.27	0.029	131692	11/14/07	EPA 3050B	EPA 6010B
Lead	200	0.24	0.079	131692	11/14/07	EPA 3050B	EPA 6010B
Mercury	0.97	0.022	0.0057	131659	11/13/07	METHOD	EPA 7471A
Molybdenum	ND	0.27	0.023	131692	11/14/07	EPA 3050B	EPA 6010B
Nickel	31	0.27	0.018	131692	11/14/07	EPA 3050B	EPA 6010B
Selenium	ND	0.55	0.080	131692	11/14/07	EPA 3050B	EPA 6010B
Silver	0.085 J	0.27	0.019	131692	11/14/07	EPA 3050B	EPA 6010B
Thallium	ND	0.55	0.035	131692	11/14/07	EPA 3050B	EPA 6010B
Vanadium	43	0.27	0.022	131692	11/14/07	EPA 3050B	EPA 6010B
Zinc	160	1.1	0.029	131692	11/14/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199163	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 EX 2 Presidio
Field ID:	1065EX343[5.0]	Diln Fac:	1.000
Lab ID:	199163-004	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/13/07
Basis:	dry		

Moisture: 11%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	2.3	0.56	0.030	131692	11/14/07	EPA 3050B	EPA 6010B
Arsenic	2.0	0.28	0.054	131692	11/13/07	EPA 3050B	EPA 6010B
Barium	120	0.28	0.0051	131692	11/13/07	EPA 3050B	EPA 6010B
Beryllium	0.25	0.11	0.0022	131692	11/13/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.28	0.0029	131692	11/13/07	EPA 3050B	EPA 6010B
Chromium	93	0.28	0.018	131692	11/13/07	EPA 3050B	EPA 6010B
Cobalt	14	0.28	0.0085	131692	11/13/07	EPA 3050B	EPA 6010B
Copper	44	0.28	0.030	131692	11/13/07	EPA 3050B	EPA 6010B
Lead	68	0.25	0.083	131692	11/13/07	EPA 3050B	EPA 6010B
Mercury	0.27	0.022	0.0049	131659	11/13/07	METHOD	EPA 7471A
Molybdenum	0.20 J	0.28	0.024	131692	11/13/07	EPA 3050B	EPA 6010B
Nickel	74	0.28	0.020	131692	11/13/07	EPA 3050B	EPA 6010B
Selenium	ND	0.56	0.085	131692	11/13/07	EPA 3050B	EPA 6010B
Silver	0.065 J	0.28	0.020	131692	11/13/07	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.037	131692	11/13/07	EPA 3050B	EPA 6010B
Vanadium	58	0.28	0.023	131692	11/13/07	EPA 3050B	EPA 6010B
Zinc	99	1.1	0.031	131692	11/13/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199163	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 EX 2 Presidio
Field ID:	1065EX344[5.0]	Diln Fac:	1.000
Lab ID:	199163-005	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/13/07
Basis:	dry		

Moisture: 13%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.15 J	0.57	0.094	131692	11/14/07	EPA 3050B	EPA 6010B
Arsenic	0.36	0.29	0.053	131692	11/14/07	EPA 3050B	EPA 6010B
Barium	20	0.29	0.0050	131692	11/14/07	EPA 3050B	EPA 6010B
Beryllium	0.14	0.11	0.0022	131692	11/14/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.29	0.0028	131692	11/14/07	EPA 3050B	EPA 6010B
Chromium	29	0.29	0.018	131692	11/14/07	EPA 3050B	EPA 6010B
Cobalt	7.9	0.29	0.0084	131692	11/14/07	EPA 3050B	EPA 6010B
Copper	11	0.29	0.030	131692	11/14/07	EPA 3050B	EPA 6010B
Lead	8.3	0.25	0.082	131692	11/14/07	EPA 3050B	EPA 6010B
Mercury	0.010 J	0.023	0.0055	131659	11/13/07	METHOD	EPA 7471A
Molybdenum	ND	0.29	0.024	131692	11/14/07	EPA 3050B	EPA 6010B
Nickel	30	0.29	0.019	131692	11/14/07	EPA 3050B	EPA 6010B
Selenium	ND	0.57	0.084	131692	11/14/07	EPA 3050B	EPA 6010B
Silver	ND	0.29	0.020	131692	11/14/07	EPA 3050B	EPA 6010B
Thallium	ND	0.57	0.037	131692	11/14/07	EPA 3050B	EPA 6010B
Vanadium	41	0.29	0.023	131692	11/14/07	EPA 3050B	EPA 6010B
Zinc	25	1.1	0.030	131692	11/14/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199163	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 EX 2 Presidio
Field ID:	1065EX345[5.0]	Basis:	dry
Lab ID:	199163-006	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/13/07

Moisture: 12%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed	Prep	Analysis
Antimony	1.2 J	2.9	0.96	10.00	131692	11/14/07	EPA 3050B	EPA 6010B
Arsenic	2.1	0.32	0.11	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Barium	680	2.8	0.24	10.00	131692	11/14/07	EPA 3050B	EPA 6010B
Beryllium	0.20	0.11	0.0023	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Cadmium	0.022 J	0.28	0.0029	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Chromium	38	0.28	0.018	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Cobalt	9.5	0.28	0.0086	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Copper	28	0.28	0.031	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Lead	53	0.25	0.084	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Mercury	0.093	0.023	0.0060	1.000	131659	11/13/07	METHOD	EPA 7471A
Molybdenum	ND	0.28	0.025	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Nickel	26	0.28	0.020	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Selenium	ND	0.57	0.086	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Silver	0.059 J	0.28	0.020	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Thallium	ND	0.57	0.038	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Vanadium	60	0.28	0.023	1.000	131692	11/14/07	EPA 3050B	EPA 6010B
Zinc	91	1.1	0.031	1.000	131692	11/14/07	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC415120	Batch#:	131659
Matrix:	Soil	Prepared:	11/13/07
Units:	mg/Kg	Analyzed:	11/13/07

Result	RL	MDL
ND	0.020	0.0052

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC415263	Batch#:	131692
Matrix:	Soil	Prepared:	11/13/07
Units:	mg/Kg	Analyzed:	11/13/07
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.027
Arsenic	ND	0.25	0.050
Barium	0.010 J	0.25	0.0047
Beryllium	ND	0.10	0.0021
Cadmium	ND	0.25	0.0027
Chromium	0.019 J	0.25	0.017
Cobalt	ND	0.25	0.0078
Copper	0.038 J	0.25	0.028
Lead	ND	0.23	0.076
Molybdenum	ND	0.25	0.022
Nickel	ND	0.25	0.018
Selenium	0.088 J	0.50	0.078
Silver	0.030 J	0.25	0.018
Thallium	ND	0.50	0.034
Vanadium	ND	0.25	0.021
Zinc	0.029 J	1.0	0.028

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

12.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131659
Units:	mg/Kg	Prepared:	11/13/07
Basis:	as received	Analyzed:	11/13/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC415121	0.5000	0.4620	92	75-125		
BSD	QC415122	0.5000	0.4810	96	75-125	4	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	131692
Units:	mg/Kg	Prepared:	11/13/07
Basis:	as received	Analyzed:	11/13/07
Diln Fac:	1.000		

Type: BS Lab ID: QC415264

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	87.88	88	75-125
Arsenic	50.00	47.73	95	75-125
Barium	100.0	91.87	92	75-125
Beryllium	2.500	2.428	97	75-125
Cadmium	10.00	9.255	93	75-125
Chromium	100.0	89.90	90	75-125
Cobalt	25.00	22.11	88	75-125
Copper	12.50	11.02	88	75-125
Lead	100.0	89.28	89	75-125
Molybdenum	20.00	19.05	95	75-125
Nickel	25.00	22.21	89	75-125
Selenium	50.00	46.65	93	75-125
Silver	10.00	8.725	87	75-125
Thallium	50.00	47.04	94	75-125
Vanadium	25.00	22.29	89	75-125
Zinc	25.00	22.80	91	75-125

Type: BSD Lab ID: QC415265

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	85.80	86	75-125	2	30
Arsenic	50.00	45.99	92	75-125	4	30
Barium	100.0	89.96	90	75-125	2	30
Beryllium	2.500	2.361	94	75-125	3	30
Cadmium	10.00	9.050	90	75-125	2	30
Chromium	100.0	88.02	88	75-125	2	30
Cobalt	25.00	21.64	87	75-125	2	30
Copper	12.50	10.80	86	75-125	2	30
Lead	100.0	86.11	86	75-125	4	30
Molybdenum	20.00	18.42	92	75-125	3	30
Nickel	25.00	21.37	85	75-125	4	30
Selenium	50.00	44.89	90	75-125	4	30
Silver	10.00	8.576	86	75-125	2	30
Thallium	50.00	45.21	90	75-125	4	30
Vanadium	25.00	21.86	87	75-125	2	30
Zinc	25.00	22.47	90	75-125	1	30

RPD= Relative Percent Difference

: 00199

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	1065EX343[5.0]	Batch#:	131659
MSS Lab ID:	199163-004	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/13/07
Basis:	dry	Analyzed:	11/13/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC415124	0.2676	0.4843	0.8020	110	75-125	11%		
MSD	QC415125		0.5202	0.8208	106	75-125	11%	2	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX343[5.0]	Batch#:	131692
MSS Lab ID:	199163-004	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/13/07
Basis:	dry		

Type: MS
Lab ID: QC415266
Moisture: 11%

Analyte	MSS Result	Spiked	Result	%REC	Limits	Dil'n Fac	Analyzed
Antimony	2.260	108.0	55.96	50 *	75-125	1.000	11/13/07
Arsenic	1.950	54.02	49.94	89	75-125	1.000	11/13/07
Barium	117.5	108.0	230.5	105 P	75-125	1.000	11/13/07
Beryllium	0.2522	2.701	2.736	92	75-125	1.000	11/13/07
Cadmium	<0.002891	10.80	8.977	83	75-125	1.000	11/13/07
Chromium	93.09	108.0	184.8	85	75-125	1.000	11/13/07
Cobalt	13.69	27.01	34.74	78	75-125	1.000	11/13/07
Copper	44.39	13.50	61.23	125 P	75-125	1.000	11/13/07
Lead	68.43	108.0	306.0	220 *	75-125	10.00	11/14/07
Molybdenum	0.1964	21.61	17.99	82	75-125	1.000	11/13/07
Nickel	74.38	27.01	95.76	79 P	75-125	1.000	11/13/07
Selenium	<0.08494	54.02	42.78	79	75-125	1.000	11/13/07
Silver	0.06459	10.80	9.298	85	75-125	1.000	11/13/07
Thallium	<0.03746	54.02	42.01	78	75-125	1.000	11/13/07
Vanadium	57.62	27.01	81.57	89 P	75-125	1.000	11/13/07
Zinc	98.69	27.01	146.9	179 * P	75-125	1.000	11/13/07

Type: MSD
Lab ID: QC415267
Moisture: 11%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Dil'n Fac	Analyzed
Antimony	107.0	55.74	50 *	75-125	1	30	1.000	11/13/07
Arsenic	53.50	48.27	87	75-125	2	30	1.000	11/13/07
Barium	107.0	270.0	143 * P	75-125	16	30	1.000	11/13/07
Beryllium	2.675	2.698	91	75-125	1	30	1.000	11/13/07
Cadmium	10.70	8.749	82	75-125	2	30	1.000	11/13/07
Chromium	107.0	190.8	91	75-125	4	30	1.000	11/13/07
Cobalt	26.75	34.83	79	75-125	1	30	1.000	11/13/07
Copper	13.38	85.66	309 * P	75-125	33 *	30	1.000	11/13/07
Lead	107.0	712.1	601 *	75-125	80 *	30	10.00	11/14/07
Molybdenum	21.40	17.42	80	75-125	2	30	1.000	11/13/07
Nickel	26.75	99.86	95 P	75-125	4	30	1.000	11/13/07
Selenium	53.50	41.66	78	75-125	2	30	1.000	11/13/07
Silver	10.70	9.099	84	75-125	1	30	1.000	11/13/07
Thallium	53.50	40.62	76	75-125	2	30	1.000	11/13/07
Vanadium	26.75	85.07	103 P	75-125	4	30	1.000	11/13/07
Zinc	26.75	257.9	595 * P	75-125	55 *	30	1.000	11/13/07

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	131692
MSS Lab ID:	199181-002	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Prepared:	11/13/07
Basis:	dry	Analyzed:	11/14/07
Diln Fac:	1.000		

Type: MS Moisture: 10%
Lab ID: QC415268

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	21.37	107.9	49.96	27 *	75-125
Arsenic	3.710	53.94	53.11	92	75-125
Barium	129.2	107.9	188.6	55 * P	75-125
Beryllium	0.1542	2.697	2.709	95	75-125
Cadmium	3.890	10.79	9.626	53 *	75-125
Chromium	58.97	107.9	144.6	79	75-125
Cobalt	25.67	26.97	30.96	20 *	75-125
Copper	146.0	13.48	109.4	-271 NM	75-125
Lead	414.7	107.9	251.2	-152 * P	75-125
Molybdenum	10.80	21.57	19.02	38 *	75-125
Nickel	101.4	26.97	83.31	-67 * P	75-125
Selenium	<0.4283	53.94	44.83	83	75-125
Silver	1.935	10.79	10.51	80	75-125
Thallium	<0.1889	53.94	42.03	78	75-125
Vanadium	42.99	26.97	59.12	60 * P	75-125
Zinc	561.7	26.97	337.2	-832 NM	75-125

Type: MSD Moisture: 10%
Lab ID: QC415269

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	101.9	46.92	25 *	75-125	2	30
Arsenic	50.97	49.14	89	75-125	2	30
Barium	101.9	174.4	44 * P	75-125	5	30
Beryllium	2.548	2.498	92	75-125	3	30
Cadmium	10.19	8.964	50 *	75-125	3	30
Chromium	101.9	121.8	62 *	75-125	14	30
Cobalt	25.48	28.22	10 * P	75-125	6	30
Copper	12.74	101.3	-351 NM	75-125	7	30
Lead	101.9	235.1	-176 NM	75-125	5	30
Molybdenum	20.39	17.39	32 *	75-125	5	30
Nickel	25.48	78.38	-90 * P	75-125	5	30
Selenium	50.97	42.60	84	75-125	1	30
Silver	10.19	9.675	76	75-125	4	30
Thallium	50.97	38.73	76	75-125	3	30
Vanadium	25.48	51.45	33 * P	75-125	12	30
Zinc	25.48	325.2	-928 NM	75-125	3	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

18.1

: 00193

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	1065EX343[5.0]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131659
MSS Lab ID:	199163-004	Sampled:	11/12/07
Lab ID:	QC415123	Received:	11/12/07
Matrix:	Soil	Analyzed:	11/13/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.2676	0.02247	0.2595	0.09522	11%	3	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX343[5.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	199163-004	Batch#:	131692
Lab ID:	QC415270	Sampled:	11/12/07
Matrix:	Soil	Received:	11/12/07
Units:	mg/Kg	Analyzed:	11/13/07

Moisture: 11%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	2.260	0.5618	3.365	1.364	49 *	10
Arsenic	1.950	0.2809	1.878	1.364	NC	10
Barium	117.5	0.2809	122.3	1.364	4	10
Beryllium	0.2522	0.1124	0.2593 J	0.5454	3	10
Cadmium	ND	0.2809	ND	1.364	NC	10
Chromium	93.09	0.2809	96.38	1.364	4	10
Cobalt	13.69	0.2809	14.64	1.364	7	10
Copper	44.39	0.2809	44.31	1.364	0	10
Lead	68.43	0.2501	74.10	1.251	8	10
Molybdenum	0.1964	0.2809	0.1604 J	1.364	NC	10
Nickel	74.38	0.2809	78.40	1.364	5	10
Selenium	ND	0.5618	ND	1.364	NC	10
Silver	0.06459	0.2809	ND	1.364	NC	10
Thallium	ND	0.5618	ND	1.364	NC	10
Vanadium	57.62	0.2809	58.56	1.364	2	10
Zinc	98.69	1.124	103.6	5.454	5	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : PDS
Inst : MET08
Seqnum : 87457701018
File : 111307br
IDF : 1.0
Lab ID : QC415271
Matrix : Soil
Batch : 131692
Time : 13-NOV-2007 23:49
Cal : 87457701001
MSS : 199163-004
Units : ug/L

PDS: 1.03 g --> 50.0 ml = 48.54 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS Seqnum	Result	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	87457701023	41.43	A	2000	1310	A	**63***	75-125	u
Arsenic	87457701014	35.75	A	1000	1195	A	116	75-125	u
Barium	87457701014	2153	A	2000	3314	A	**58***	75-125	u
Beryllium	87457701014	4.623	A	50.00	63.55	A	118	75-125	u
Cadmium	87457701014	ND	A	200.0	213.7	A	107	75-125	u
Calcium	87457701014	78130	R	20000	97110	R	95	75-125	u
Chromium	87457701014	1707	A	2000	3790	A	104	75-125	u
Cobalt	87457701014	251.0	A	500.0	757.8	A	101	75-125	u
Copper	87457701014	813.8	A	250.0	1071	A	103	75-125	u
Lead	87457701014	1255	A	2000	3252	A	100	75-125	u
Magnesium	87457701014	75090	R	20000	94570	R	97	75-125	u
Manganese	87457701014	3026	A	500.0	3451	A	85	75-125	: u
Molybdenum	87457701014	3.601	A	400.0	259.5	A	**64***	75-125	u
Nickel	87457701014	1364	A	500.0	1820	A	91	75-125	u
Potassium	87457701014	17060	R	10000	27500	R	104	75-125	u
Selenium	87457701014	ND	A	1000	1073	A	107	75-125	u
Silver	87457701014	1.184	A	200.0	220.2	A	110	75-125	u
Sodium	87457701014	2886	R	20000	26020	R	116	75-125	u
Thallium	87457701014	ND	A	1000	1011	A	101	75-125	u
Vanadium	87457701014	1056	A	500.0	1564	A	102	75-125	u
Zinc	87457701014	1809	A	500.0	2266	A	91	75-125	u
Boron	87457701014	73.54	A	1000	1184	A	111	75-125	u
Tin	87457701014	21.58	A	1000	630.0	A	**61***	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3061100	2876175	-6.04

:=recovery not meaningful u=use

87457701018

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : PDS
Inst : MET09
Seqnum : 97458452028
File : 111407r
IDF : 1.0
Lab ID : QC415271
Matrix : Soil
Batch : 131692
Time : 14-NOV-2007 11:02
Cal : 97458452001
MSS : 199163-004
Units : ug/L

PDS: 1.03 g --> 50.0 ml = 48.54 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS Seqnum	Result	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	87457701023	41.43	A	2000	1964	A	96	75-125	
Arsenic	87457701014	35.75	A	1000	1035	A	100	75-125	**y**
Barium	87457701014	2153	A	2000	4087	A	97	75-125	
Beryllium	87457701014	4.623	A	50.00	53.99	A	99	75-125	
Cadmium	87457701014	ND	A	200.0	188.1	A	94	75-125	
Calcium	87457701014	78130	R	20000	97510	R	97	75-125	u
Chromium	87457701014	1707	A	2000	3521	A	91	75-125	
Cobalt	87457701014	251.0	A	500.0	693.5	A	89	75-125	
Copper	87457701014	813.8	A	250.0	1129	A	**126***	75-125	
Lead	87457701014	1255	A	2000	3095	A	92	75-125	
Magnesium	87457701014	75090	R	20000	93290	R	91	75-125	u
Manganese	87457701014	3026	A	500.0	3621	A	119	75-125	: u
Molybdenum	87457701014	3.601	A	400.0	406.6	A	101	75-125	
Nickel	87457701014	1364	A	500.0	1843	A	96	75-125	
Potassium	87457701014	17060	R	10000	27070	R	100	75-125	u
Selenium	87457701014	ND	A	1000	986.8	A	99	75-125	
Silver	87457701014	1.184	A	200.0	180.6	A	90	75-125	<c- >c- **b***
Sodium	87457701014	2886	R	20000	21900	R	95	75-125	u
Thallium	87457701014	ND	A	1000	889.6	A	89	75-125	
Vanadium	87457701014	1056	A	500.0	1528	A	94	75-125	
Zinc	87457701014	1809	A	500.0	2285	A	95	75-125	
Boron	87457701014	73.54	A	1000	1009	A	94	75-125	u
Tin	87457701014	21.58	A	1000	972.6	A	95	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3349002	3262152	-2.59

-=low bias :=recovery not meaningful <=opening >=closing b=noncompliant c=CCV u=use y=RL raised

97458452028

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87457701001
Units : ug/L

Reviewer : ---
Date : 13-NOV-2007 20:21
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111307br	87457701002	CRIM08	13-NOV-2007 20:25	S7555
L2	111307br	87457701003	CS100	13-NOV-2007 20:29	S7382
L3	111307br	87457701004	CS1K	13-NOV-2007 20:32	S7381
L4	111307br	87457701005	CS10K	13-NOV-2007 20:35	S7383
L5	111307br	87457701006	CS100K	13-NOV-2007 20:38	S7674

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	23.404	24.627	24.340	24.725		LOR0	0.00000	0.04045		24.274	1.000	0.995	
Arsenic	A	18.179	16.649	16.498	16.337		LOR0	0.00000	0.06120		16.916	1.000	0.995	
Barium	A	446.31	440.23	428.00	424.28		LOR0	0.00000	0.00236		434.70	1.000	0.995	
Beryllium	A	3207.1	3283.4	3238.9			LOR0	0.00000	3.09E-4		3243.1	1.000	0.995	
Boron	A	159.38		160.38	168.39		LOR0	0.00000	0.00594		162.72	1.000	0.995	
Cadmium	A	187.71	193.43	190.98	186.52		LOR0	0.00000	0.00536		189.66	1.000	0.995	
Chromium	A	67.500	68.728	67.290	67.481		LOR0	0.00000	0.01482		67.750	1.000	0.995	
Cobalt	A	107.30	113.12	115.19	114.70		LOR0	0.00000	0.00872		112.58	1.000	0.995	
Copper	A	419.08	414.41	416.43	427.22		LOR0	0.00000	0.00234		419.29	1.000	0.995	
Lead	A	34.993	40.138	40.087	39.148		LOR0	0.00000	0.02554		38.592	1.000	0.995	
Manganese	A	1367.4	1384.1	1354.5	1306.8		LOR0	0.00000	7.65E-4		1353.2	1.000	0.995	
Molybdenum	A	30.977	30.532	29.996	29.907		LOR0	0.00000	0.03344		30.353	1.000	0.995	
Nickel	A	38.988	37.772	38.390	38.454		LOR0	0.00000	0.02601		38.401	1.000	0.995	
Selenium	A	26.535	23.933	23.790	24.606		LOR0	0.00000	0.04065		24.716	1.000	0.995	
Silver	A	531.80	488.17	482.83	494.23		LOR0	0.00000	0.00203		499.26	1.000	0.995	
Thallium	A	14.550	13.997	14.026	13.713		LOR0	0.00000	0.07291		14.071	1.000	0.995	
Tin	A	18.310	18.438	19.385	19.346		LOR0	0.00000	0.05169		18.870	1.000	0.995	
Titanium	A	1226.9	1285.6	1266.5	1245.9		LOR0	0.00000	8.03E-4		1256.2	1.000	0.995	
Vanadium	A	107.72	111.53	109.52	111.85		LOR0	0.00000	0.00894		110.16	1.000	0.995	
Zinc	A	107.72	74.331	68.165	68.216		LOR0	0.00000	0.01466		79.608	1.000	0.995	
Aluminum	R	1.5051		1.5342	1.4629	1.4094	LOR0	0.00000	0.70925		1.4779	1.000	0.995	
Calcium	R	17.016		17.307	15.390	15.002	LOR0	0.00000	0.06664		16.179	1.000	0.995	
Iron	R	12.977		12.730	12.250	12.128	LOR0	0.00000	0.08245		12.521	1.000	0.995	
Magnesium	R	2.1531		2.1920	2.0785	2.0550	LOR0	0.00000	0.48657		2.1196	1.000	0.995	
Potassium	R	4.0468		4.5919	4.1813	4.2516	LOR0	0.00000	0.23524		4.2679	1.000	0.995	
Sodium	R	11.584		11.914	11.265	11.001	LOR0	0.00000	0.09088		11.441	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-5	100.0	0	1000	-2	10000	0		
Arsenic	A	5.000	11	100.0	2	1000	1	10000	0		
Barium	A	5.000	5	100.0	4	1000	1	10000	0		
Beryllium	A	2.000	-1	100.0	1	1000	0				
Boron	A	100.0	-5			1000	-5	10000	0		
Cadmium	A	5.000	1	100.0	4	1000	2	10000	0		
Chromium	A	5.000	0	100.0	2	1000	0	10000	0		
Cobalt	A	5.000	-6	100.0	-1	1000	0	10000	0		
Copper	A	5.000	-2	100.0	-3	1000	-3	10000	0		
Lead	A	3.000	-11	100.0	3	1000	2	10000	0		
Manganese	A	5.000	5	100.0	6	1000	4	10000	0		
Molybdenum	A	5.000	4	100.0	2	1000	0	10000	0		
Nickel	A	5.000	1	100.0	-2	1000	0	10000	0		
Selenium	A	5.000	8	100.0	-3	1000	-3	10000	0		
Silver	A	5.000	8	100.0	-1	1000	-2	2000	0		
Thallium	A	5.000	6	100.0	2	1000	2	10000	0		
Tin	A	40.00	-5	100.0	-5	1000	0	10000	0		
Titanium	A	10.00	-2	100.0	3	1000	2	10000	0		
Vanadium	A	5.000	-4	100.0	0	1000	-2	10000	0		
Zinc	A	20.00	58	100.0	9	1000	0	10000	0		
Aluminum	R	100.0	7			1000	9	10000	4	100000	0
Calcium	R	200.0	13			1000	15	10000	3	100000	0
Iron	R	100.0	7			1000	5	10000	1	100000	0
Magnesium	R	200.0	5			1000	7	10000	1	100000	0
Potassium	R	500.0	-5			1000	8	10000	-2	100000	0
Sodium	R	500.0	5			1000	8	10000	2	100000	0

DRAFT

nstrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Reprocessing Begun
Logged In Analyst: Curtis and Tompkins Technique: ICP Continuous

Results Data Set (original): 111307b
Results Library (original): C:\pe\Curtis and Tompkins\Results\Results.mdb
Results Data Set (reprocessed): 111307br
Results Library (reprocessed): C:\pe\Curtis and Tompkins\Results\Results.mdb

Sequence No.: 1 Autosampler Location: 1
Sample ID: ICALBLK, Date Collected: 11/13/2007 8:21:50 PM
Analyst: Data Type: Reprocessed on 11/13/2007 8:56:17 PM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	136.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	897.6	250.52	27.91%	[0.00]	ug/L
Al 308.215 R	-215.2	5.97	2.78%	[0.00]	ug/L
As 188.979	37.0	15.95	43.09%	[0.00]	ug/L
B 249.677	1185.3	27.41	2.31%	[0.00]	ug/L
Ba 233.527	-86.9	3.66	4.21%	[0.00]	ug/L
Be 313.107	1263.1	135.38	10.72%	[0.00]	ug/L
Ca 315.887 R	-232.8	9.67	4.15%	[0.00]	ug/L
Cd 214.440	-19.1	1.80	9.42%	[0.00]	ug/L
Co 228.616	-381.1	12.68	3.33%	[0.00]	ug/L
Cr 267.716	-109.2	9.89	9.06%	[0.00]	ug/L
Cu 324.752	3033.7	74.19	2.45%	[0.00]	ug/L
Fe 238.204 R	74.6	3.05	4.09%	[0.00]	ug/L
K 766.490 R	204.3	239.30	117.12%	[0.00]	ug/L
Mg 279.077 R	17.3	3.63	20.93%	[0.00]	ug/L
Mn 257.610	416.2	3.82	0.92%	[0.00]	ug/L
Mo 202.031	-3.1	4.47	142.70%	[0.00]	ug/L
Na 589.592 R	-3148.5	90.08	2.86%	[0.00]	ug/L
Ni 231.604	-280.2	2.79	1.00%	[0.00]	ug/L
Pb 220.353	107.9	3.25	3.01%	[0.00]	ug/L
Sb 206.836	47.6	11.35	23.82%	[0.00]	ug/L
Se 196.026	-4.9	28.97	588.75%	[0.00]	ug/L
Ti 334.940 R	206.0	138.10	67.03%	[0.00]	ug/L
Tl 190.801	-10.1	10.36	102.53%	[0.00]	ug/L
V 292.402	-169.1	14.15	8.37%	[0.00]	ug/L
Zn 206.200	11.5	1.84	16.08%	[0.00]	ug/L
Sn 189.927	-7.9	9.10	114.99%	[0.00]	ug/L

Sequence No.: 2 Autosampler Location: 2
Sample ID: ICAL,CRIM08 Date Collected: 11/13/2007 8:25:39 PM
Analyst: Data Type: Reprocessed on 11/13/2007 8:56:18 PM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	136.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3061100.2	53750.28	1.76%	100.0	%
Y	195710.0	17322.02	8.85%	100.0	%
Ag 328.068†	2659.0	180.79	6.80%	[5.0]	ug/L
Al 308.215 R†	150.5	8.31	5.52%	[100]	ug/L
As 188.979†	90.9	8.33	9.16%	[5.0]	ug/L
B 249.677†	15938.4	304.24	1.91%	[100]	ug/L
Ba 233.527†	2231.5	45.76	2.05%	[5.0]	ug/L
Be 313.107†	6414.2	61.55	0.96%	[2.0]	ug/L
Ca 315.887 R†	3403.3	292.58	8.60%	[200]	ug/L
Cd 214.440†	938.6	21.85	2.33%	[5.0]	ug/L
Co 228.616†	536.5	3.56	0.66%	[5.0]	ug/L
Cr 267.716†	337.5	1.25	0.37%	[5.0]	ug/L
Cu 324.752†	2095.4	154.41	7.37%	[5.0]	ug/L
Fe 238.204 R†	1297.7	118.49	9.13%	[100]	ug/L
K 766.490 R†	2023.4	235.02	11.62%	[500]	ug/L
Mg 279.077 R†	430.6	52.08	12.09%	[200]	ug/L
Mn 257.610†	6837.2	126.45	1.85%	[5.0]	ug/L
Mo 202.031†	154.9	1.59	1.02%	[5.0]	ug/L
Na 589.592 R†	5791.8	279.63	4.83%	[500]	ug/L
Ni 231.604†	194.9	0.57	0.29%	[5.0]	ug/L
Pb 220.353†	105.0	13.53	12.89%	[3.0]	ug/L
Sb 206.836†	117.0	9.32	7.96%	[5.0]	ug/L
Se 196.026†	132.7	54.24	40.88%	[5.0]	ug/L
Ti 334.940 R†	12268.8	161.82	1.32%	[10]	ug/L
Tl 190.801†	72.8	16.23	22.30%	[5.0]	ug/L
V 292.402†	538.6	6.93	1.29%	[5.0]	ug/L
Zn 206.200†	2154.4	32.05	1.49%	[20]	ug/L
Sn 189.927†	732.4	5.80	0.79%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/2007 8:29:32 PM
Data Type: Reprocessed on 11/13/2007 8:56:19 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	136.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3070809.1	59071.22	1.92%	100.3	%
Y	202738.3	2523.46	1.24%	103.6	%
Ag 328.068†	48816.8	1492.54	3.06%	[100]	ug/L
As 188.979†	1664.9	41.93	2.52%	[100]	ug/L
Ba 233.527†	44023.1	1236.08	2.81%	[100]	ug/L
Be 313.107†	328337.7	1789.00	0.54%	[100]	ug/L
Cd 214.440†	19342.9	595.80	3.08%	[100]	ug/L
Co 228.616†	11312.2	194.41	1.72%	[100]	ug/L
Cr 267.716†	6872.8	200.18	2.91%	[100]	ug/L
Cu 324.752†	41441.2	1160.89	2.80%	[100]	ug/L
Mn 257.610†	138412.0	4105.83	2.97%	[100]	ug/L
Mo 202.031†	3053.2	53.31	1.75%	[100]	ug/L
Ni 231.604†	3777.2	67.65	1.79%	[100]	ug/L
Pb 220.353†	4013.8	94.70	2.36%	[100]	ug/L
Sb 206.836†	2462.7	33.97	1.38%	[100]	ug/L
Se 196.026†	2393.3	49.33	2.06%	[100]	ug/L
Ti 334.940 R†	128559.0	3825.87	2.98%	[100]	ug/L
Tl 190.801†	1399.7	15.36	1.10%	[100]	ug/L
V 292.402†	11152.8	269.48	2.42%	[100]	ug/L
Zn 206.200†	7433.1	143.86	1.94%	[100]	ug/L
Sn 189.927†	1843.8	31.17	1.69%	[100]	ug/L

Sequence No.: 4 Autosampler Location: 4
Sample ID: ICAL,CS1K Date Collected: 11/13/2007 8:32:26 PM
Analyst: Data Type: Reprocessed on 11/13/2007 8:56:20 PM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	136.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3047285.9	27157.05	0.89%	99.55	%
Y	193055.2	8878.25	4.60%	98.64	%
Ag 328.068†	482833.8	3070.75	0.64%	[1000]	ug/L
Al 308.215 R†	1534.2	77.59	5.06%	[1000]	ug/L
As 188.979†	16497.8	129.66	0.79%	[1000]	ug/L
B 249.677†	160377.8	1197.13	0.75%	[1000]	ug/L
Ba 233.527†	427997.7	3045.66	0.71%	[1000]	ug/L
Be 313.107†	3238850.4	7661.78	0.24%	[1000]	ug/L
Ca 315.887 R†	17307.0	849.66	4.91%	[1000]	ug/L
Cd 214.440†	190983.6	1744.23	0.91%	[1000]	ug/L
Co 228.616†	115191.4	1047.16	0.91%	[1000]	ug/L
Cr 267.716†	67290.5	315.71	0.47%	[1000]	ug/L
Cu 324.752†	416430.3	2550.06	0.61%	[1000]	ug/L
Fe 238.204 R†	12729.9	600.98	4.72%	[1000]	ug/L
K 766.490 R†	4591.9	437.22	9.52%	[1000]	ug/L
Mg 279.077 R†	2192.0	111.98	5.11%	[1000]	ug/L
Mn 257.610†	1354466.6	4761.64	0.35%	[1000]	ug/L
Mo 202.031†	29996.1	236.87	0.79%	[1000]	ug/L
Na 589.592 R†	11913.7	435.13	3.65%	[1000]	ug/L
Ni 231.604†	38390.3	195.37	0.51%	[1000]	ug/L
Pb 220.353†	40087.0	263.35	0.66%	[1000]	ug/L
Sb 206.836†	24340.4	243.50	1.00%	[1000]	ug/L
Se 196.026†	23790.5	198.02	0.83%	[1000]	ug/L
Ti 334.940 R†	1266527.0	3458.55	0.27%	[1000]	ug/L
Tl 190.801†	14025.5	86.42	0.62%	[1000]	ug/L
V 292.402†	109524.2	498.63	0.46%	[1000]	ug/L
Zn 206.200†	68165.1	270.75	0.40%	[1000]	ug/L
Sn 189.927†	19385.2	138.01	0.71%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/13/2007 8:35:27 PM
Data Type: Reprocessed on 11/13/2007 8:56:21 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2908973.1	22823.19	0.78%	95.03	%
Y	193649.2	4535.23	2.34%	98.95	%
Ag 328.068†	988462.4	4218.50	0.43%	[2000]	ug/L
Al 308.215 R†	14629.5	262.06	1.79%	[10000]	ug/L
As 188.979†	163373.4	1626.69	1.00%	[10000]	ug/L
B 249.677†	1683851.9	2781.97	0.17%	[10000]	ug/L
Ba 233.527†	4242781.4	73533.42	1.73%	[10000]	ug/L
Ca 315.887 R†	153898.5	4031.54	2.62%	[10000]	ug/L
Cd 214.440†	1865169.9	3694.96	0.20%	[10000]	ug/L
Co 228.616†	1146998.6	2035.83	0.18%	[10000]	ug/L
Cr 267.716†	674810.2	1891.36	0.28%	[10000]	ug/L
Cu 324.752†	4272177.5	58801.35	1.38%	[10000]	ug/L
Fe 238.204 R†	122504.5	3272.62	2.67%	[10000]	ug/L
K 766.490 R†	41813.1	932.95	2.23%	[10000]	ug/L
Mg 279.077 R†	20784.7	556.34	2.68%	[10000]	ug/L
Mn 257.610†	13068104.4	214748.70	1.64%	[10000]	ug/L
Mo 202.031†	299067.4	1082.76	0.36%	[10000]	ug/L
Na 589.592 R†	112649.0	1551.95	1.38%	[10000]	ug/L
Ni 231.604†	384542.7	1047.40	0.27%	[10000]	ug/L
Pb 220.353†	391477.2	4623.90	1.18%	[10000]	ug/L
Sb 206.836†	247252.1	2231.07	0.90%	[10000]	ug/L
Se 196.026†	246062.5	2543.35	1.03%	[10000]	ug/L
Ti 334.940 R†	12458534.8	193715.82	1.55%	[10000]	ug/L
Tl 190.801†	137125.7	1502.95	1.10%	[10000]	ug/L
V 292.402†	1118526.9	2595.53	0.23%	[10000]	ug/L
Zn 206.200†	682160.9	1430.69	0.21%	[10000]	ug/L
Sn 189.927†	193461.8	2007.96	1.04%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/13/2007 8:38:35 PM
Data Type: Reprocessed on 11/13/2007 8:56:22 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2651370.2	54337.81	2.05%	86.61	%
Y	177387.5	1247.45	0.70%	90.64	%
Al 308.215 R†	140940.5	423.77	0.30%	[100000]	ug/L
Ca 315.887 R†	1500211.3	16788.04	1.12%	[100000]	ug/L
Fe 238.204 R†	1212773.9	13360.95	1.10%	[100000]	ug/L
K 766.490 R†	425160.9	3744.61	0.88%	[100000]	ug/L
Mg 279.077 R†	205495.1	3179.94	1.55%	[100000]	ug/L
Na 589.592 R†	1100073.4	13010.68	1.18%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	491.9	0.00000	0.999957	
Al 308.215 R	4	Lin Thru 0	0.0	1.410	0.00000	0.999993	
As 188.979	4	Lin Thru 0	0.0	16.34	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	168.3	0.00000	0.999989	
Ba 233.527	4	Lin Thru 0	0.0	424.3	0.00000	1.000000	
Be 313.107	3	Lin Thru 0	0.0	3239	0.00000	0.999999	
Ca 315.887 R	4	Lin Thru 0	0.0	15.01	0.00000	0.999996	
Cd 214.440	4	Lin Thru 0	0.0	186.6	0.00000	0.999997	
Co 228.616	4	Lin Thru 0	0.0	114.7	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	67.48	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	427.1	0.00000	0.999997	
Fe 238.204 R	4	Lin Thru 0	0.0	12.13	0.00000	0.999999	
K 766.490 R	4	Lin Thru 0	0.0	4.251	0.00000	0.999998	
Mg 279.077 R	4	Lin Thru 0	0.0	2.055	0.00000	0.999999	
Mn 257.610	4	Lin Thru 0	0.0	1307	0.00000	0.999993	
Mo 202.031	4	Lin Thru 0	0.0	29.91	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	11.00	0.00000	0.999997	
Ni 231.604	4	Lin Thru 0	0.0	38.45	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	39.16	0.00000	0.999997	
Sb 206.836	4	Lin Thru 0	0.0	24.72	0.00000	0.999999	
Se 196.026	4	Lin Thru 0	0.0	24.60	0.00000	0.999995	
Ti 334.940 R	4	Lin Thru 0	0.0	1246	0.00000	0.999999	
Tl 190.801	4	Lin Thru 0	0.0	13.72	0.00000	0.999997	
V 292.402	4	Lin Thru 0	0.0	111.8	0.00000	0.999998	
Zn 206.200	4	Lin Thru 0	0.0	68.22	0.00000	0.999999	
Sn 189.927	4	Lin Thru 0	0.0	19.35	0.00000	1.000000	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701007 File : 111307br Time : 13-NOV-2007 20:41
Cal : 87457701001 Caldate : 13-NOV-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	24.274	24.678	5000	4991	ug/L	0	10	
Arsenic	A	16.916	17.010	5000	5205	ug/L	4	10	
Barium	A	434.70	432.84	5000	5100	ug/L	2	10	
Beryllium	A	3243.1	3362.3	500.0	519.0	ug/L	4	10	
Boron	A	162.72	173.76	5000	5162	ug/L	3	10	
Cadmium	A	189.66	189.96	5000	5091	ug/L	2	10	
Chromium	A	67.750	66.718	5000	4944	ug/L	-1	10	
Cobalt	A	112.58	112.71	5000	4903	ug/L	-2	10	
Copper	A	419.29	416.76	5000	4879	ug/L	-2	10	
Lead	A	38.592	38.403	5000	4904	ug/L	-2	10	
Manganese	A	1353.2	1311.3	5000	5015	ug/L	0	10	
Molybdenum	A	30.353	29.921	5000	5002	ug/L	0	10	
Nickel	A	38.401	37.992	5000	4940	ug/L	-1	10	
Selenium	A	24.716	24.438	5000	4967	ug/L	-1	10	
Silver	A	499.26	480.62	1000	977.0	ug/L	-2	10	
Thallium	A	14.071	13.465	5000	4908	ug/L	-2	10	
Tin	A	18.870	18.968	5000	4902	ug/L	-2	10	
Titanium	A	1256.2	1244.0	5000	4992	ug/L	0	10	
Vanadium	A	110.16	111.95	5000	5005	ug/L	0	10	
Zinc	A	79.608	67.863	5000	4974	ug/L	-1	10	
Aluminum	R	1.4779	1.4150	20000	20070	ug/L	0	10	
Calcium	R	16.179	15.398	20000	20520	ug/L	3	10	
Iron	R	12.521	12.404	20000	20450	ug/L	2	10	
Magnesium	R	2.1196	2.1390	20000	20820	ug/L	4	10	
Potassium	R	4.2679	4.1881	20000	19700	ug/L	-1	10	
Sodium	R	11.441	11.235	20000	20420	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	2858562	-6.62

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87457701008
Cal : 87457701001
File : 111307br
Caldate : 13-NOV-2007
IDF : 1.0
Time : 13-NOV-2007 20:44

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[3.817]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[34.68]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	[1.195]	3.000	1.150	ug/L	!ib
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[3.812]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	[0.9182]	5.000	0.7500	ug/L	!ib
Thallium	A	[2.830]	5.000	1.131	ug/L	!ib
Tin	A	[3.914]	40.00	2.773	ug/L	!ib
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	3087821	0.87

!=warning ib=instrument blank

87457701008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701009 File : 111307br Time : 13-NOV-2007 20:48
Cal : 87457701001 Caldate : 13-NOV-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[-2.071]	5.000	ug/L	
Arsenic	A	[-2.236]	5.000	ug/L	
Barium	A	[0.7048]	5.000	ug/L	
Beryllium	A	[-0.8966]	2.000	ug/L	
Boron	A	[21.17]	100.0	ug/L	
Cadmium	A	[-2.757]	5.000	ug/L	
Cobalt	A	[-0.9868]	5.000	ug/L	
Lead	A	[2.108]	3.000	ug/L	
Molybdenum	A	[-2.448]	5.000	ug/L	
Selenium	A	[-0.1742]	5.000	ug/L	
Silver	A	[0.4856]	5.000	ug/L	
Thallium	A	6.174	5.000	ug/L	
Tin	A	[-12.28]	40.00	ug/L	
Zinc	A	[-7.526]	20.00	ug/L	
Potassium	R	[79.47]	500.0	ug/L	
Sodium	R	[174.5]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18910	ug/L	95
Copper	A	20000	19800	ug/L	99
Manganese	A	20000	17880	ug/L	89
Nickel	A	20000	17130	ug/L	86
Titanium	A	20000	19300	ug/L	96
Vanadium	A	20000	19720	ug/L	99
Aluminum	R	500000	481700	ug/L	96
Calcium	R	500000	455200	ug/L	91
Iron	R	200000	178600	ug/L	89
Magnesium	R	500000	469100	ug/L	94

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	2498747	-18.37

87457701009

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87457701010
Cal : 87457701001
Standards: S7324

File : 111307br
Caldate : 13-NOV-2007

IDF : 1.0
Time : 13-NOV-2007 20:59

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.6	ug/L	12	20	
Arsenic	A	500.0	561.2	ug/L	12	20	
Barium	A	500.0	526.8	ug/L	5	20	
Beryllium	A	500.0	546.3	ug/L	9	20	
Cadmium	A	1000	982.1	ug/L	-2	20	
Chromium	A	500.0	506.2	ug/L	1	20	
Cobalt	A	500.0	452.4	ug/L	-10	20	
Copper	A	500.0	505.8	ug/L	1	20	
Lead	A	1000	944.4	ug/L	-6	20	
Manganese	A	500.0	460.2	ug/L	-8	20	
Molybdenum	A	500.0	514.1	ug/L	3	20	
Nickel	A	1000	918.9	ug/L	-8	20	
Selenium	A	500.0	521.7	ug/L	4	20	
Silver	A	1000	1090	ug/L	9	20	
Thallium	A	500.0	466.8	ug/L	-7	20	
Titanium	A	20000	20080	ug/L	0		
Vanadium	A	500.0	539.8	ug/L	8	20	
Zinc	A	1000	1016	ug/L	2	20	
Aluminum	R	500000	503300	ug/L	1		
Calcium	R	500000	476500	ug/L	-5		
Iron	R	200000	184500	ug/L	-8		
Magnesium	R	500000	485700	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	2451960	-19.90

87457701010

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701007 File : 111307br Time : 13-NOV-2007 20:41
Cal : 87457701001 Caldate : 13-NOV-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	24.274	24.678	5000	4991	ug/L	0	10	
Arsenic	A	16.916	17.010	5000	5205	ug/L	4	10	
Barium	A	434.70	432.84	5000	5100	ug/L	2	10	
Beryllium	A	3243.1	3362.3	500.0	519.0	ug/L	4	10	
Boron	A	162.72	173.76	5000	5162	ug/L	3	10	
Cadmium	A	189.66	189.96	5000	5091	ug/L	2	10	
Chromium	A	67.750	66.718	5000	4944	ug/L	-1	10	
Cobalt	A	112.58	112.71	5000	4903	ug/L	-2	10	
Copper	A	419.29	416.76	5000	4879	ug/L	-2	10	
Lead	A	38.592	38.403	5000	4904	ug/L	-2	10	
Manganese	A	1353.2	1311.3	5000	5015	ug/L	0	10	
Molybdenum	A	30.353	29.921	5000	5002	ug/L	0	10	
Nickel	A	38.401	37.992	5000	4940	ug/L	-1	10	
Selenium	A	24.716	24.438	5000	4967	ug/L	-1	10	
Silver	A	499.26	480.62	1000	977.0	ug/L	-2	10	
Thallium	A	14.071	13.465	5000	4908	ug/L	-2	10	
Tin	A	18.870	18.968	5000	4902	ug/L	-2	10	
Titanium	A	1256.2	1244.0	5000	4992	ug/L	0	10	
Vanadium	A	110.16	111.95	5000	5005	ug/L	0	10	
Zinc	A	79.608	67.863	5000	4974	ug/L	-1	10	
Aluminum	R	1.4779	1.4150	20000	20070	ug/L	0	10	
Calcium	R	16.179	15.398	20000	20520	ug/L	3	10	
Iron	R	12.521	12.404	20000	20450	ug/L	2	10	
Magnesium	R	2.1196	2.1390	20000	20820	ug/L	4	10	
Potassium	R	4.2679	4.1881	20000	19700	ug/L	-1	10	
Sodium	R	11.441	11.235	20000	20420	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	2858562	-6.62

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701008 File : 111307br Time : 13-NOV-2007 20:44
Cal : 87457701001 Caldate : 13-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[3.817]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[34.68]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	[1.195]	3.000	1.150	ug/L	!ib
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[3.812]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	[0.9182]	5.000	0.7500	ug/L	!ib
Thallium	A	[2.830]	5.000	1.131	ug/L	!ib
Tin	A	[3.914]	40.00	2.773	ug/L	!ib
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	3087821	0.87

!=warning ib=instrument blank

87457701008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701009 File : 111307br Time : 13-NOV-2007 20:48
Cal : 87457701001 Caldate : 13-NOV-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[-2.071]	5.000	ug/L	
Arsenic	A	[-2.236]	5.000	ug/L	
Barium	A	[0.7048]	5.000	ug/L	
Beryllium	A	[-0.8966]	2.000	ug/L	
Boron	A	[21.17]	100.0	ug/L	
Cadmium	A	[-2.757]	5.000	ug/L	
Cobalt	A	[-0.9868]	5.000	ug/L	
Lead	A	[2.108]	3.000	ug/L	
Molybdenum	A	[-2.448]	5.000	ug/L	
Selenium	A	[-0.1742]	5.000	ug/L	
Silver	A	[0.4856]	5.000	ug/L	
Thallium	A	6.174	5.000	ug/L	
Tin	A	[-12.28]	40.00	ug/L	
Zinc	A	[-7.526]	20.00	ug/L	
Potassium	R	[79.47]	500.0	ug/L	
Sodium	R	[174.5]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18910	ug/L	95
Copper	A	20000	19800	ug/L	99
Manganese	A	20000	17880	ug/L	89
Nickel	A	20000	17130	ug/L	86
Titanium	A	20000	19300	ug/L	96
Vanadium	A	20000	19720	ug/L	99
Aluminum	R	500000	481700	ug/L	96
Calcium	R	500000	455200	ug/L	91
Iron	R	200000	178600	ug/L	89
Magnesium	R	500000	469100	ug/L	94

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	2498747	-18.37

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701010 File : 111307br Time : 13-NOV-2007 20:59
Cal : 87457701001 Caldate : 13-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.6	ug/L	12	20	
Arsenic	A	500.0	561.2	ug/L	12	20	
Barium	A	500.0	526.8	ug/L	5	20	
Beryllium	A	500.0	546.3	ug/L	9	20	
Cadmium	A	1000	982.1	ug/L	-2	20	
Chromium	A	500.0	506.2	ug/L	1	20	
Cobalt	A	500.0	452.4	ug/L	-10	20	
Copper	A	500.0	505.8	ug/L	1	20	
Lead	A	1000	944.4	ug/L	-6	20	
Manganese	A	500.0	460.2	ug/L	-8	20	
Molybdenum	A	500.0	514.1	ug/L	3	20	
Nickel	A	1000	918.9	ug/L	-8	20	
Selenium	A	500.0	521.7	ug/L	4	20	
Silver	A	1000	1090	ug/L	9	20	
Thallium	A	500.0	466.8	ug/L	-7	20	
Titanium	A	20000	20080	ug/L	0		
Vanadium	A	500.0	539.8	ug/L	8	20	
Zinc	A	1000	1016	ug/L	2	20	
Aluminum	R	500000	503300	ug/L	1		
Calcium	R	500000	476500	ug/L	-5		
Iron	R	200000	184500	ug/L	-8		
Magnesium	R	500000	485700	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	2451960	-19.90

87457701010

00203

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701020 File : 111307br Time : 13-NOV-2007 23:55
Cal : 87457701001 Caldate : 13-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	24.274	23.923	5000	4838	ug/L	-3	10	
Arsenic	A	16.916	16.566	5000	5070	ug/L	1	10	
Barium	A	434.70	423.78	5000	4994	ug/L	0	10	
Beryllium	A	3243.1	3350.3	500.0	517.1	ug/L	3	10	
Boron	A	162.72	169.04	5000	5022	ug/L	0	10	
Cadmium	A	189.66	183.17	5000	4909	ug/L	-2	10	
Chromium	A	67.750	65.565	5000	4858	ug/L	-3	10	
Cobalt	A	112.58	110.65	5000	4813	ug/L	-4	10	
Copper	A	419.29	407.57	5000	4771	ug/L	-5	10	
Lead	A	38.592	36.943	5000	4717	ug/L	-6	10	
Manganese	A	1353.2	1285.2	5000	4915	ug/L	-2	10	
Molybdenum	A	30.353	29.542	5000	4939	ug/L	-1	10	
Nickel	A	38.401	36.934	5000	4802	ug/L	-4	10	
Selenium	A	24.716	23.761	5000	4830	ug/L	-3	10	
Silver	A	499.26	471.07	1000	957.6	ug/L	-4	10	
Thallium	A	14.071	13.516	5000	4927	ug/L	-1	10	
Tin	A	18.870	18.369	5000	4747	ug/L	-5	10	
Titanium	A	1256.2	1223.2	5000	4908	ug/L	-2	10	
Vanadium	A	110.16	109.20	5000	4882	ug/L	-2	10	
Zinc	A	79.608	66.325	5000	4861	ug/L	-3	10	
Aluminum	R	1.4779	1.3596	20000	19290	ug/L	-4	10	
Calcium	R	16.179	14.894	20000	19850	ug/L	-1	10	
Iron	R	12.521	11.990	20000	19770	ug/L	-1	10	
Magnesium	R	2.1196	2.0745	20000	20190	ug/L	1	10	
Potassium	R	4.2679	4.0536	20000	19070	ug/L	-5	10	
Sodium	R	11.441	10.982	20000	19960	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	2904825	-5.11

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701022 File : 111307br Time : 14-NOV-2007 00:03
Cal : 87457701001 Caldate : 13-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.032]	5.000	0.9637	ug/L	!ib
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	3063931	0.09

!=warning ib=instrument blank

87457701022

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701034 File : 111307br Time : 14-NOV-2007 00:33
Cal : 87457701001 Caldate : 13-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	24.274	24.100	5000	4874	ug/L	-3	10	
Arsenic	A	16.916	16.700	5000	5110	ug/L	2	10	
Barium	A	434.70	424.09	5000	4997	ug/L	0	10	
Beryllium	A	3243.1	3359.7	500.0	518.6	ug/L	4	10	
Boron	A	162.72	168.49	5000	5005	ug/L	0	10	
Cadmium	A	189.66	182.52	5000	4892	ug/L	-2	10	
Chromium	A	67.750	65.682	5000	4867	ug/L	-3	10	
Cobalt	A	112.58	110.44	5000	4804	ug/L	-4	10	
Copper	A	419.29	407.06	5000	4765	ug/L	-5	10	
Lead	A	38.592	37.201	5000	4750	ug/L	-5	10	
Manganese	A	1353.2	1286.5	5000	4920	ug/L	-2	10	
Molybdenum	A	30.353	29.539	5000	4938	ug/L	-1	10	
Nickel	A	38.401	36.870	5000	4794	ug/L	-4	10	
Selenium	A	24.716	23.937	5000	4866	ug/L	-3	10	
Silver	A	499.26	469.62	1000	954.6	ug/L	-5	10	
Thallium	A	14.071	13.653	5000	4977	ug/L	0	10	
Tin	A	18.870	18.426	5000	4762	ug/L	-5	10	
Titanium	A	1256.2	1224.9	5000	4915	ug/L	-2	10	
Vanadium	A	110.16	109.59	5000	4900	ug/L	-2	10	
Zinc	A	79.608	66.156	5000	4849	ug/L	-3	10	
Aluminum	R	1.4779	1.2865	20000	18250	ug/L	-9	10	
Calcium	R	16.179	14.016	20000	18680	ug/L	-7	10	
Iron	R	12.521	11.296	20000	18630	ug/L	-7	10	
Magnesium	R	2.1196	1.9533	20000	19010	ug/L	-5	10	
Potassium	R	4.2679	3.8455	20000	18090	ug/L	-10	10	
Sodium	R	11.441	10.429	20000	18960	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	2884024	-5.78

00206

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701036 File : 111307br Time : 14-NOV-2007 00:41
Cal : 87457701001 Caldate : 13-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	[1.933]	3.000	1.150	ug/L	!ib
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	ND	5.000	1.384	ug/L	
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	3062766	0.05

!=warning ib=instrument blank

87457701036

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701045 File : 111307br Time : 14-NOV-2007 01:07
Cal : 87457701001 Caldate : 13-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	539.9	ug/L	8	20	
Arsenic	A	500.0	532.0	ug/L	6	20	
Barium	A	500.0	513.1	ug/L	3	20	
Beryllium	A	500.0	540.0	ug/L	8	20	
Cadmium	A	1000	946.5	ug/L	-5	20	
Chromium	A	500.0	487.5	ug/L	-2	20	
Cobalt	A	500.0	434.3	ug/L	-13	20	
Copper	A	500.0	490.6	ug/L	-2	20	
Lead	A	1000	892.9	ug/L	-11	20	
Manganese	A	500.0	449.6	ug/L	-10	20	
Molybdenum	A	500.0	498.8	ug/L	0	20	
Nickel	A	1000	879.4	ug/L	-12	20	
Selenium	A	500.0	502.4	ug/L	0	20	
Silver	A	1000	1076	ug/L	8	20	
Thallium	A	500.0	444.5	ug/L	-11	20	
Titanium	A	20000	19340	ug/L	-3		
Vanadium	A	500.0	523.5	ug/L	5	20	
Zinc	A	1000	974.3	ug/L	-3	20	
Aluminum	R	500000	488700	ug/L	-2		
Calcium	R	500000	469700	ug/L	-6		
Iron	R	200000	182600	ug/L	-9		
Magnesium	R	500000	479000	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A.	3061100	2505468	-18.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701048 File : 111307br Time : 14-NOV-2007 01:16
Cal : 87457701001 Caldate : 13-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	24.274	24.097	5000	4874	ug/L	-3	10	
Arsenic	A	16.916	16.604	5000	5081	ug/L	2	10	
Barium	A	434.70	425.57	5000	5015	ug/L	0	10	
Beryllium	A	3243.1	3358.6	500.0	518.5	ug/L	4	10	
Boron	A	162.72	169.96	5000	5049	ug/L	1	10	
Cadmium	A	189.66	183.80	5000	4926	ug/L	-1	10	
Chromium	A	67.750	65.900	5000	4883	ug/L	-2	10	
Cobalt	A	112.58	110.83	5000	4821	ug/L	-4	10	
Copper	A	419.29	411.58	5000	4818	ug/L	-4	10	
Lead	A	38.592	37.084	5000	4735	ug/L	-5	10	
Manganese	A	1353.2	1292.2	5000	4942	ug/L	-1	10	
Molybdenum	A	30.353	29.975	5000	5011	ug/L	0	10	
Nickel	A	38.401	37.026	5000	4814	ug/L	-4	10	
Selenium	A	24.716	23.709	5000	4819	ug/L	-4	10	
Silver	A	499.26	471.59	1000	958.6	ug/L	-4	10	
Thallium	A	14.071	13.457	5000	4906	ug/L	-2	10	
Tin	A	18.870	18.330	5000	4737	ug/L	-5	10	
Titanium	A	1256.2	1232.7	5000	4946	ug/L	-1	10	
Vanadium	A	110.16	110.27	5000	4930	ug/L	-1	10	
Zinc	A	79.608	66.321	5000	4861	ug/L	-3	10	
Aluminum	R	1.4779	1.3971	20000	19820	ug/L	-1	10	
Calcium	R	16.179	15.196	20000	20250	ug/L	1	10	
Iron	R	12.521	12.267	20000	20230	ug/L	1	10	
Magnesium	R	2.1196	2.1209	20000	20640	ug/L	3	10	
Potassium	R	4.2679	4.1502	20000	19530	ug/L	-2	10	
Sodium	R	11.441	11.308	20000	20550	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	2888654	-5.63

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87457701050 File : 111307br Time : 14-NOV-2007 01:23
Cal : 87457701001 Caldate : 13-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	[1.659]	3.000	1.150	ug/L	!ib
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.581]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	ND	5.000	1.131	ug/L	
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3061100	3078161	0.56

!=warning ib=instrument blank

87457701050

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87457701 Instrument: MET08 PE ICP Begun: 13-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	111307br	ICALBLK				13-NOV-2007 20:21	1.0	1.0				
002	111307br	ICAL	CRIM08			13-NOV-2007 20:25	1.0	1.0			1	
003	111307br	ICAL	CS100			13-NOV-2007 20:29	1.0	1.0			2	
004	111307br	ICAL	CS1K			13-NOV-2007 20:32	1.0	1.0			3	
005	111307br	ICAL	CS10K			13-NOV-2007 20:35	1.0	1.0			4	
006	111307br	ICAL	CS100K			13-NOV-2007 20:38	1.0	1.0			5	
007	111307br	ICV				13-NOV-2007 20:41	1.0	1.0		5000	6	
008	111307br	ICB				13-NOV-2007 20:44	1.0	1.0		5000		
009	111307br	ICSA				13-NOV-2007 20:48	1.0	1.0		5000	7	10:AL=481678
010	111307br	ICSAB				13-NOV-2007 20:59	1.0	1.0		5000	8	5:AL=503314
011	111307br	BLANK	QC415263	131692	Soil	13-NOV-2007 23:29	1.0	50.0		5000		
012	111307br	BS	QC415264	131692	Soil	13-NOV-2007 23:33	1.0	50.0		5000		
013	111307br	BSD	QC415265	131692	Soil	13-NOV-2007 23:36	1.0	50.0		5000		
014	111307br	MSS	199163-004	131692	Soil	13-NOV-2007 23:39	1.0	48.54	3	5000		3:FE=394424
015	111307br	MS	QC415266	131692	Soil	13-NOV-2007 23:41	1.0	48.08	2	5000		5:FE=462794
016	111307br	MSD	QC415267	131692	Soil	13-NOV-2007 23:43	1.0	47.62	1	5000		4:FE=456897
017	111307br	SER	QC415270	131692	Soil	13-NOV-2007 23:46	5.0	48.54	1	5000		
018	111307br	PDS	QC415271	131692	Soil	13-NOV-2007 23:49	1.0	48.54	4	5000	9 10	3:FE=404810
019	111307br	X	RINSE			13-NOV-2007 23:52	1.0					
020	111307br	CCV				13-NOV-2007 23:55	1.0	1.0		5000	11	
021	111307br	X	FLUSH			13-NOV-2007 23:59	1.0					
022	111307br	CCB				14-NOV-2007 00:03	1.0	1.0		5000		
023	111307br	MSS	199163-004	131692	Soil	14-NOV-2007 00:06	1.0	48.54	3	5000		3:FE=390247
024	111307br	MSS	199181-002	131692	Soil	14-NOV-2007 00:09	5.0	49.50	1	5000		1:FE=374750
025	111307br	MS	QC415268	131692	Soil	14-NOV-2007 00:12	1.0	48.54	6	5000		4:FE=429798
026	111307br	MSD	QC415269	131692	Soil	14-NOV-2007 00:14	1.0	45.87	9	5000		4:FE=376419
027	111307br	SAMPLE	199181-001	131692	Soil	14-NOV-2007 00:16	5.0	46.73		5000		1:FE=154455
028	111307br	SAMPLE	199163-001	131692	Soil	14-NOV-2007 00:19	1.0	49.02	2	5000		3:FE=314859
029	111307br	SAMPLE	199163-002	131692	Soil	14-NOV-2007 00:21	1.0	49.02	1	5000		3:FE=337715
030	111307br	SAMPLE	199163-003	131692	Soil	14-NOV-2007 00:23	1.0	46.73		5000		4:FE=317158
031	111307br	SAMPLE	199163-005	131692	Soil	14-NOV-2007 00:25	1.0	46.73	2	5000		4:FE=256646

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684

Analyst: _____ Date: 11/14/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87457701 Instrument: MET08 PE ICP Begun: 13-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	111307br	SAMPLE	199163-006	131692	Soil	14-NOV-2007 00:28	1.0	48.54	3	5000		5:CA=615099
033	111307br	X	RINSE			14-NOV-2007 00:30	1.0					
034	111307br	CCV				14-NOV-2007 00:33	1.0	1.0		5000	11	
035	111307br	X	FLUSH			14-NOV-2007 00:37	1.0					
036	111307br	CCB				14-NOV-2007 00:41	1.0	1.0		5000		
037	111307br	SAMPLE	199219-002	131692	Soil	14-NOV-2007 00:45	1.0	47.62		5000		3:FE=254705
038	111307br	SAMPLE	199219-003	131692	Soil	14-NOV-2007 00:48	1.0	48.54		5000		2:FE=238564
039	111307br	SAMPLE	199219-004	131692	Soil	14-NOV-2007 00:51	1.0	46.73		5000		3:FE=257393
040	111307br	SAMPLE	199219-005	131692	Soil	14-NOV-2007 00:54	1.0	48.08		5000		2:FE=272472
041	111307br	SAMPLE	199219-006	131692	Soil	14-NOV-2007 00:56	1.0	45.87		5000		2:FE=244655
042	111307br	SAMPLE	199219-007	131692	Soil	14-NOV-2007 00:59	1.0	49.02		5000		2:FE=242512
043	111307br	SAMPLE	199219-008	131692	Soil	14-NOV-2007 01:02	1.0	48.54		5000		3:FE=264789
044	111307br	SAMPLE	199219-009	131692	Soil	14-NOV-2007 01:04	1.0	49.02		5000		2:FE=243099
045	111307br	ICSAB				14-NOV-2007 01:07	1.0	1.0		5000	8	5:AL=488675
046	111307br	X	RINSE			14-NOV-2007 01:11	1.0					
047	111307br	X				14-NOV-2007 01:15	1.0				11	
048	111307br	CCV				14-NOV-2007 01:16	1.0	1.0		5000	11	
049	111307br	X	FLUSH			14-NOV-2007 01:19	1.0					
050	111307br	CCB				14-NOV-2007 01:23	1.0	1.0		5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684

Analyst: _____ Date: 11/14/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 97458452001
Units : ug/L

Date : 14-NOV-2007 08:52
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111407r	97458452002	CRIM08	14-NOV-2007 08:56	S7555
L2	111407r	97458452003	CS100	14-NOV-2007 09:01	S7382
L3	111407r	97458452004	CS1K	14-NOV-2007 09:04	S7381
L4	111407r	97458452005	CS10K	14-NOV-2007 09:06	S7383
L5	111407r	97458452006	CS100K	14-NOV-2007 09:10	S7674

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	18.722	19.997	20.013	20.363		LOR0	0.00000	0.04912		19.774	1.000	0.995	
Arsenic	A	8.8066	11.490	11.439	11.426		LOR0	0.00000	0.08752		10.790	1.000	0.995	
Barium	A	113.78	110.48	110.11	108.46		LOR0	0.00000	0.00922		110.71	1.000	0.995	
Beryllium	A	5202.3	5137.5	5139.9			LOR0	0.00000	1.95E-4		5159.9	1.000	0.995	
Boron	A	219.37		220.14	227.08		LOR0	0.00000	0.00441		222.19	1.000	0.995	
Cadmium	A	186.36	187.21	192.97	185.63		LOR0	0.00000	0.00538		188.04	1.000	0.995	
Chromium	A	219.85	203.06	201.45	200.40		LOR0	0.00000	0.00499		206.19	1.000	0.995	
Cobalt	A	61.963	63.052	64.823	64.505		LOR0	0.00000	0.01550		63.586	1.000	0.995	
Copper	A	212.68	209.34	212.20	212.60		LOR0	0.00000	0.00470		211.71	1.000	0.995	
Lead	A	55.746	63.824	63.258	61.508		LOR0	0.00000	0.01625		61.084	1.000	0.995	
Manganese	A	571.60	575.28	577.46	546.31		LOR0	0.00000	0.00183		567.66	1.000	0.995	
Molybdenum	A	51.638	49.932	48.346	47.509		LOR0	0.00000	0.02104		49.356	1.000	0.995	
Nickel	A	90.106	96.186	98.653	98.148		LOR0	0.00000	0.01019		95.773	1.000	0.995	
Selenium	A	15.385	15.495	15.151	15.491		LOR0	0.00000	0.06457		15.380	1.000	0.995	
Silver	A	471.29	569.80	581.74	581.83		LOR0	0.00000	0.00172		551.16	1.000	0.995	
Thallium	A	15.008	12.137	11.882	11.616		LOR0	0.00000	0.08607		12.661	1.000	0.995	
Tin	A	20.862	20.702	21.960	21.678		LOR0	0.00000	0.04612		21.300	1.000	0.995	
Titanium	A	817.35	851.12	845.12	828.16		LOR0	0.00000	0.00121		835.44	1.000	0.995	
Vanadium	A	240.32	239.35	241.56	245.10		LOR0	0.00000	0.00408		241.58	1.000	0.995	
Zinc	A	139.06	100.86	93.973	94.648		LOR0	0.00000	0.01057		107.14	1.000	0.995	
Aluminum	R	0.8305		0.8506	0.8639	0.8456	LOR0	0.00000	1.18228		0.8477	1.000	0.995	
Calcium	R	9.9114		9.9334	9.5344	9.1134	LOR0	0.00000	0.10968		9.6232	1.000	0.995	
Iron	R	2.8052		2.7682	2.7321	2.6429	LOR0	0.00000	0.37824		2.7371	1.000	0.995	
Magnesium	R	1.4835		1.4580	1.4531	1.3751	LOR0	0.00000	0.72679		1.4424	1.000	0.995	
Potassium	R	2.7896		2.9673	2.8435	2.7979	LOR0	0.00000	0.35735		2.8496	1.000	0.995	
Sodium	R	322.68		351.28	334.22	317.33	LOR0	0.00000	0.00315		331.38	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-8	100.0	-2	1000	-2	10000	0		
Arsenic	A	5.000	-23	100.0	1	1000	0	10000	0		
Barium	A	5.000	5	100.0	2	1000	2	10000	0		
Beryllium	A	2.000	1	100.0	0	1000	0				
Boron	A	100.0	-3			1000	-3	10000	0		
Cadmium	A	5.000	0	100.0	1	1000	4	10000	0		
Chromium	A	5.000	10	100.0	1	1000	1	10000	0		
Cobalt	A	5.000	-4	100.0	-2	1000	0	10000	0		
Copper	A	5.000	0	100.0	-2	1000	0	10000	0		
Lead	A	3.000	-9	100.0	4	1000	3	10000	0		
Manganese	A	5.000	5	100.0	5	1000	6	10000	0		
Molybdenum	A	5.000	9	100.0	5	1000	2	10000	0		
Nickel	A	5.000	-8	100.0	-2	1000	1	10000	0		
Selenium	A	5.000	-1	100.0	0	1000	-2	10000	0		
Silver	A	5.000	-19	100.0	-2	1000	0	2000	0		
Thallium	A	5.000	29	100.0	4	1000	2	10000	0		
Tin	A	40.00	-4	100.0	-5	1000	1	10000	0		
Titanium	A	10.00	-1	100.0	3	1000	2	10000	0		
Vanadium	A	5.000	-2	100.0	-2	1000	-1	10000	0		
Zinc	A	20.00	47	100.0	7	1000	-1	10000	0		
Aluminum	R	100.0	-2			1000	1	10000	2	100000	0
Calcium	R	200.0	9			1000	9	10000	5	100000	0
Iron	R	100.0	6			1000	5	10000	3	100000	0
Magnesium	R	200.0	8			1000	6	10000	6	100000	0
Potassium	R	500.0	0			1000	6	10000	2	100000	0
Sodium	R	500.0	2			1000	11	10000	5	100000	0

9 8 5 2 5

nstrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/14/2007 8:52:39 AM
Data Type: Reprocessed on 11/14/2007 9:46:30 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	168.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1699.6	114.70	6.75%	[0.00]	ug/L
Al 308.215 R	79.5	4.53	5.70%	[0.00]	ug/L
As 188.979	-42.5	14.52	34.19%	[0.00]	ug/L
B 249.677	-2210.3	82.53	3.73%	[0.00]	ug/L
Ba 233.527	-97.4	3.16	3.25%	[0.00]	ug/L
Be 313.107	559.6	58.04	10.37%	[0.00]	ug/L
Ca 315.887 R	245.3	15.18	6.19%	[0.00]	ug/L
Cd 214.440	-26.3	7.21	27.45%	[0.00]	ug/L
Co 228.616	-53.2	3.16	5.94%	[0.00]	ug/L
Cr 267.716	-134.6	49.53	36.81%	[0.00]	ug/L
Cu 324.752	2486.2	82.97	3.34%	[0.00]	ug/L
Fe 238.204 R	-328.7	1.47	0.45%	[0.00]	ug/L
K 766.490 R	-285.0	94.56	33.18%	[0.00]	ug/L
Mg 279.077 R	-55.3	2.47	4.47%	[0.00]	ug/L
Mn 257.610	-2.1	3.71	174.92%	[0.00]	ug/L
Mo 202.031	-46.2	11.13	24.09%	[0.00]	ug/L
Na 589.592 R	15830.8	1462.40	9.24%	[0.00]	ug/L
Ni 231.604	814.1	3.53	0.43%	[0.00]	ug/L
Pb 220.353	-528.5	1.47	0.28%	[0.00]	ug/L
Sb 206.836	63.1	16.63	26.37%	[0.00]	ug/L
Se 196.026	-134.9	8.24	6.11%	[0.00]	ug/L
Ti 334.940 R	143.1	11.45	8.00%	[0.00]	ug/L
Tl 190.801	-28.9	16.63	57.54%	[0.00]	ug/L
V 292.402	-1491.7	127.27	8.53%	[0.00]	ug/L
Zn 206.200	60.2	9.59	15.92%	[0.00]	ug/L
Sn 189.927	-6.7	1.97	29.58%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/14/2007 8:56:46 AM
Data Type: Reprocessed on 11/14/2007 9:46:35 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	169.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3349002.3	19923.96	0.59%	100.0	%
Y	286611.0	6103.53	2.13%	100.0	%
Ag 328.068†	2356.5	170.43	7.23%	[5.0]	ug/L
Al 308.215 R†	83.1	4.34	5.22%	[100]	ug/L
As 188.979†	44.0	11.01	25.01%	[5.0]	ug/L
B 249.677†	21936.6	201.76	0.92%	[100]	ug/L
Ba 233.527†	568.9	4.60	0.81%	[5.0]	ug/L
Be 313.107†	10404.6	71.50	0.69%	[2.0]	ug/L
Ca 315.887 R†	1982.3	23.50	1.19%	[200]	ug/L
Cd 214.440†	931.8	14.40	1.55%	[5.0]	ug/L
Co 228.616†	309.8	6.34	2.05%	[5.0]	ug/L
Cr 267.716†	1099.2	14.47	1.32%	[5.0]	ug/L
Cu 324.752†	1063.4	63.00	5.92%	[5.0]	ug/L
Fe 238.204 R†	280.5	3.12	1.11%	[100]	ug/L
K 766.490 R†	1394.8	32.57	2.33%	[500]	ug/L
Mg 279.077 R†	296.7	4.61	1.56%	[200]	ug/L
Mn 257.610†	2858.0	13.37	0.47%	[5.0]	ug/L
Mo 202.031†	258.2	12.67	4.91%	[5.0]	ug/L
Na 589.592 R†	161341.1	898.73	0.56%	[500]	ug/L
Ni 231.604†	450.5	14.40	3.20%	[5.0]	ug/L
Pb 220.353†	167.2	28.79	17.21%	[3.0]	ug/L
Sb 206.836†	93.6	18.31	19.56%	[5.0]	ug/L
Se 196.026†	76.9	26.46	34.39%	[5.0]	ug/L
Ti 334.940 R†	8173.5	61.32	0.75%	[10]	ug/L
Tl 190.801†	75.0	12.23	16.30%	[5.0]	ug/L
V 292.402†	1201.6	25.97	2.16%	[5.0]	ug/L
Zn 206.200†	2781.1	19.41	0.70%	[20]	ug/L
Sn 189.927†	834.5	17.90	2.15%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/2007 9:01:02 AM
Data Type: Reprocessed on 11/14/2007 9:46:36 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	169.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3392769.6	13093.18	0.39%	101.3	%
Y	293282.8	3531.89	1.20%	102.3	%
Ag 328.068†	56980.2	351.43	0.62%	[100]	ug/L
As 188.979†	1149.0	21.72	1.89%	[100]	ug/L
Ba 233.527†	11048.3	106.21	0.96%	[100]	ug/L
Be 313.107†	513746.8	575.89	0.11%	[100]	ug/L
Cd 214.440†	18721.3	155.66	0.83%	[100]	ug/L
Co 228.616†	6305.2	49.28	0.78%	[100]	ug/L
Cr 267.716†	20306.1	29.02	0.14%	[100]	ug/L
Cu 324.752†	20934.0	60.94	0.29%	[100]	ug/L
Mn 257.610†	57527.8	316.95	0.55%	[100]	ug/L
Mo 202.031†	4993.2	62.28	1.25%	[100]	ug/L
Ni 231.604†	9618.6	85.66	0.89%	[100]	ug/L
Pb 220.353†	6382.4	36.64	0.57%	[100]	ug/L
Sb 206.836†	1999.7	21.97	1.10%	[100]	ug/L
Se 196.026†	1549.5	36.87	2.38%	[100]	ug/L
Ti 334.940 R†	85111.8	147.48	0.17%	[100]	ug/L
Tl 190.801†	1213.7	32.66	2.69%	[100]	ug/L
V 292.402†	23935.5	49.65	0.21%	[100]	ug/L
Zn 206.200†	10086.4	106.33	1.05%	[100]	ug/L
Sn 189.927†	2070.2	14.76	0.71%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/14/2007 9:04:14 AM
Data Type: Reprocessed on 11/14/2007 9:46:37 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	169.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3397614.7	34114.63	1.00%	101.5	%
Y	284823.6	3969.18	1.39%	99.38	%
Ag 328.068†	581737.2	6953.84	1.20%	[1000]	ug/L
Al 308.215 R†	850.6	33.62	3.95%	[1000]	ug/L
As 188.979†	11439.4	212.26	1.86%	[1000]	ug/L
B 249.677†	220136.6	424.08	0.19%	[1000]	ug/L
Ba 233.527†	110109.8	350.94	0.32%	[1000]	ug/L
Be 313.107†	5139914.9	69684.37	1.36%	[1000]	ug/L
Ca 315.887 R†	9933.4	244.83	2.46%	[1000]	ug/L
Cd 214.440†	192969.2	2518.94	1.31%	[1000]	ug/L
Co 228.616†	64822.9	195.90	0.30%	[1000]	ug/L
Cr 267.716†	201448.1	103.78	0.05%	[1000]	ug/L
Cu 324.752†	212204.0	488.41	0.23%	[1000]	ug/L
Fe 238.204 R†	2768.2	61.07	2.21%	[1000]	ug/L
K 766.490 R†	2967.3	105.92	3.57%	[1000]	ug/L
Mg 279.077 R†	1458.0	18.14	1.24%	[1000]	ug/L
Mn 257.610†	577456.5	5381.94	0.93%	[1000]	ug/L
Mo 202.031†	48345.9	1046.54	2.16%	[1000]	ug/L
Na 589.592 R†	351283.9	3459.11	0.98%	[1000]	ug/L
Ni 231.604†	98653.4	53.69	0.05%	[1000]	ug/L
Pb 220.353†	63257.7	1385.06	2.19%	[1000]	ug/L
Sb 206.836†	20013.4	245.38	1.23%	[1000]	ug/L
Se 196.026†	15151.0	450.18	2.97%	[1000]	ug/L
Ti 334.940 R†	845121.3	2514.52	0.30%	[1000]	ug/L
Tl 190.801†	11882.0	308.36	2.60%	[1000]	ug/L
V 292.402†	241564.9	125.41	0.05%	[1000]	ug/L
Zn 206.200†	93972.6	287.31	0.31%	[1000]	ug/L
Sn 189.927†	21959.9	659.83	3.00%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/14/2007 9:06:37 AM
Data Type: Reprocessed on 11/14/2007 9:46:38 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	168.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3236831.4	34954.96	1.08%	96.65	%
Y	276501.0	3514.24	1.27%	96.47	%
Ag 328.068†	1163658.5	10599.13	0.91%	[2000]	ug/L
Al 308.215 R†	8639.3	43.15	0.50%	[10000]	ug/L
As 188.979†	114259.0	3536.21	3.09%	[10000]	ug/L
B 249.677†	2270824.2	5559.68	0.24%	[10000]	ug/L
Ba 233.527†	1084551.2	850.69	0.08%	[10000]	ug/L
Ca 315.887 R†	95343.9	557.92	0.59%	[10000]	ug/L
Cd 214.440†	1856309.9	10132.16	0.55%	[10000]	ug/L
Co 228.616†	645053.4	931.04	0.14%	[10000]	ug/L
Cr 267.716†	2003986.2	2208.75	0.11%	[10000]	ug/L
Cu 324.752†	2126011.9	10036.95	0.47%	[10000]	ug/L
Fe 238.204 R†	27320.6	66.51	0.24%	[10000]	ug/L
K 766.490 R†	28435.5	233.40	0.82%	[10000]	ug/L
Mg 279.077 R†	14530.7	62.98	0.43%	[10000]	ug/L
Mn 257.610†	5463061.5	163926.91	3.00%	[10000]	ug/L
Mo 202.031†	475088.9	14121.11	2.97%	[10000]	ug/L
Na 589.592 R†	3342163.9	21564.12	0.65%	[10000]	ug/L
Ni 231.604†	981478.1	2777.98	0.28%	[10000]	ug/L
Pb 220.353†	615078.7	17908.69	2.91%	[10000]	ug/L
Sb 206.836†	203631.2	6659.19	3.27%	[10000]	ug/L
Se 196.026†	154907.3	5505.09	3.55%	[10000]	ug/L
Ti 334.940 R†	8281583.5	200714.46	2.42%	[10000]	ug/L
Tl 190.801†	116158.8	3409.60	2.94%	[10000]	ug/L
V 292.402†	2451025.1	3329.24	0.14%	[10000]	ug/L
Zn 206.200†	946483.3	4682.68	0.49%	[10000]	ug/L
Sn 189.927†	216782.1	6854.49	3.16%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/14/2007 9:10:32 AM
Data Type: Reprocessed on 11/14/2007 9:46:39 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	169.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3034611.1	20935.42	0.69%	90.61	%
Y	276758.3	3953.55	1.43%	96.56	%
Al 308.215 R†	84563.9	871.34	1.03%	[100000]	ug/L
Ca 315.887 R†	911340.2	9618.85	1.06%	[100000]	ug/L
Fe 238.204 R†	264290.2	3370.91	1.28%	[100000]	ug/L
K 766.490 R†	279793.2	2503.08	0.89%	[100000]	ug/L
Mg 279.077 R†	137513.0	1210.02	0.88%	[100000]	ug/L
Na 589.592 R†	31732834.5	317329.28	1.00%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	581.8	0.00000	0.999999	
Al 308.215 R	4	Lin Thru 0	0.0	0.8458	0.00000	0.999998	
As 188.979	4	Lin Thru 0	0.0	11.43	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	227.0	0.00000	0.999995	
Ba 233.527	4	Lin Thru 0	0.0	108.5	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	5140	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	9.118	0.00000	0.999989	
Cd 214.440	4	Lin Thru 0	0.0	185.7	0.00000	0.999992	
Co 228.616	4	Lin Thru 0	0.0	64.51	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	200.4	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	212.6	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	2.644	0.00000	0.999994	
K 766.490 R	4	Lin Thru 0	0.0	2.798	0.00000	0.999999	
Mg 279.077 R	4	Lin Thru 0	0.0	1.376	0.00000	0.999984	
Mn 257.610	4	Lin Thru 0	0.0	546.6	0.00000	0.999984	
Mo 202.031	4	Lin Thru 0	0.0	47.52	0.00000	0.999998	
Na 589.592 R	4	Lin Thru 0	0.0	317.5	0.00000	0.999986	
Ni 231.604	4	Lin Thru 0	0.0	98.15	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	61.53	0.00000	0.999996	
Sb 206.836	4	Lin Thru 0	0.0	20.36	0.00000	0.999999	
Se 196.026	4	Lin Thru 0	0.0	15.49	0.00000	0.999998	
Ti 334.940 R	4	Lin Thru 0	0.0	828.3	0.00000	0.999998	
Tl 190.801	4	Lin Thru 0	0.0	11.62	0.00000	0.999997	
V 292.402	4	Lin Thru 0	0.0	245.1	0.00000	0.999999	
Zn 206.200	4	Lin Thru 0	0.0	94.64	0.00000	0.999999	
Sn 189.927	4	Lin Thru 0	0.0	21.68	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452007 File : 111407r Time : 14-NOV-2007 09:14
Cal : 97458452001 Caldate : 14-NOV-2007
Standards: S7553

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	19.774	21.134	5000	5190	ug/L	4	10	
Arsenic	A	10.790	12.318	5000	5390	ug/L	8	10	
Barium	A	110.71	114.15	5000	5262	ug/L	5	10	
Beryllium	A	5159.9	5473.4	500.0	532.4	ug/L	6	10	
Boron	A	222.19	241.15	5000	5311	ug/L	6	10	
Cadmium	A	188.04	194.02	5000	5224	ug/L	4	10	
Chromium	A	206.19	204.17	5000	5094	ug/L	2	10	
Cobalt	A	63.586	64.591	5000	4995	ug/L	0	10	
Copper	A	211.71	217.94	5000	5126	ug/L	3	10	
Lead	A	61.084	64.112	5000	5210	ug/L	4	10	
Manganese	A	567.66	569.37	5000	5208	ug/L	4	10	
Molybdenum	A	49.356	49.790	5000	5239	ug/L	5	10	
Nickel	A	95.773	100.47	5000	5118	ug/L	2	10	
Selenium	A	15.380	16.285	5000	5257	ug/L	5	10	
Silver	A	551.16	570.31	1000	980.3	ug/L	-2	10	
Thallium	A	12.661	12.031	5000	5178	ug/L	4	10	
Tin	A	21.300	22.328	5000	5149	ug/L	3	10	
Titanium	A	835.44	856.50	5000	5170	ug/L	3	10	
Vanadium	A	241.58	251.15	5000	5124	ug/L	2	10	
Zinc	A	107.14	97.242	5000	5137	ug/L	3	10	
Aluminum	R	0.8477	0.8842	20000	20910	ug/L	5	10	
Calcium	R	9.6232	9.8302	20000	21560	ug/L	8	10	
Iron	R	2.7371	2.8060	20000	21230	ug/L	6	10	
Magnesium	R	1.4424	1.5017	20000	21830	ug/L	9	10	
Potassium	R	2.8496	2.9031	20000	20750	ug/L	4	10	
Sodium	R	331.38	343.81	20000	21660	ug/L	8	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	3205461	-4.29

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452008 File : 111407r Time : 14-NOV-2007 09:24
Cal : 97458452001 Caldate : 14-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.3096]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.07309]	2.000	0.04231	ug/L	!ib
Boron	A	[4.981]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.6159]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.2699]	5.000	0.2448	ug/L	!ib
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[1.323]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.3684]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.114]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	3362677	0.41

!=warning ib=instrument blank

97458452008

: 00222

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452009 File : 111407r Time : 14-NOV-2007 09:28
Cal : 97458452001 Caldate : 14-NOV-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[1.566]	5.000	ug/L	
Arsenic	A	[1.166]	5.000	ug/L	
Barium	A	[-0.3289]	5.000	ug/L	
Beryllium	A	[0.3835]	2.000	ug/L	
Boron	A	[2.893]	100.0	ug/L	
Cadmium	A	[3.735]	5.000	ug/L	
Cobalt	A	[-0.1326]	5.000	ug/L	
Lead	A	[-0.4628]	3.000	ug/L	
Molybdenum	A	[2.975]	5.000	ug/L	
Selenium	A	[-3.693]	5.000	ug/L	
Silver	A	[0.5380]	5.000	ug/L	
Thallium	A	[-4.499]	5.000	ug/L	
Tin	A	[-5.912]	40.00	ug/L	
Zinc	A	[17.90]	20.00	ug/L	
Potassium	R	[118.5]	500.0	ug/L	
Sodium	R	[24.36]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19930	ug/L	100
Copper	A	20000	21630	ug/L	108
Manganese	A	20000	19800	ug/L	99
Nickel	A	20000	18700	ug/L	93
Titanium	A	20000	20750	ug/L	104
Vanadium	A	20000	20830	ug/L	104
Aluminum	R	500000	518600	ug/L	104
Calcium	R	500000	501800	ug/L	100
Iron	R	200000	196900	ug/L	98
Magnesium	R	500000	514200	ug/L	103

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	2793129	-16.60

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452010 File : 111407r Time : 14-NOV-2007 09:29
Cal : 97458452001 Caldate : 14-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	559.5	ug/L	12	20	
Arsenic	A	500.0	578.5	ug/L	16	20	
Barium	A	500.0	546.5	ug/L	9	20	
Beryllium	A	500.0	560.8	ug/L	12	20	
Cadmium	A	1000	1035	ug/L	4	20	
Chromium	A	500.0	527.0	ug/L	5	20	
Cobalt	A	500.0	479.2	ug/L	-4	20	
Copper	A	500.0	568.6	ug/L	14	20	
Lead	A	1000	978.7	ug/L	-2	20	
Manganese	A	500.0	550.7	ug/L	10	20	
Molybdenum	A	500.0	560.3	ug/L	12	20	
Nickel	A	1000	990.3	ug/L	-1	20	
Selenium	A	500.0	553.8	ug/L	11	20	
Silver	A	1000	1111	ug/L	11	20	
Thallium	A	500.0	492.4	ug/L	-2	20	
Titanium	A	20000	20620	ug/L	3		
Vanadium	A	500.0	560.0	ug/L	12	20	
Zinc	A	1000	1051	ug/L	5	20	
Aluminum	R	500000	520000	ug/L	4		
Calcium	R	500000	502000	ug/L	0		
Iron	R	200000	196400	ug/L	-2		
Magnesium	R	500000	509300	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	2787990	-16.75

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452021 File : 111407r Time : 14-NOV-2007 10:36
Cal : 97458452001 Caldate : 14-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.774	20.552	5000	5047	ug/L	1	10	
Arsenic	A	10.790	11.977	5000	5241	ug/L	5	10	
Barium	A	110.71	110.99	5000	5116	ug/L	2	10	
Beryllium	A	5159.9	5317.0	500.0	517.2	ug/L	3	10	
Boron	A	222.19	235.54	5000	5188	ug/L	4	10	
Cadmium	A	188.04	187.28	5000	5043	ug/L	1	10	
Chromium	A	206.19	197.79	5000	4935	ug/L	-1	10	
Cobalt	A	63.586	63.324	5000	4897	ug/L	-2	10	
Copper	A	211.71	211.15	5000	4966	ug/L	-1	10	
Lead	A	61.084	62.677	5000	5094	ug/L	2	10	
Manganese	A	567.66	551.14	5000	5041	ug/L	1	10	
Molybdenum	A	49.356	49.757	5000	5236	ug/L	5	10	
Nickel	A	95.773	97.436	5000	4964	ug/L	-1	10	
Selenium	A	15.380	15.963	5000	5153	ug/L	3	10	
Silver	A	551.16	492.80	1000	847.0	ug/L	**-15**	10	c- ***
Thallium	A	12.661	11.890	5000	5117	ug/L	2	10	
Tin	A	21.300	21.715	5000	5008	ug/L	0	10	
Titanium	A	835.44	829.56	5000	5007	ug/L	0	10	
Vanadium	A	241.58	243.19	5000	4962	ug/L	-1	10	
Zinc	A	107.14	94.185	5000	4976	ug/L	0	10	
Aluminum	R	0.8477	0.8457	20000	20000	ug/L	0	10	
Calcium	R	9.6232	9.3714	20000	20560	ug/L	3	10	
Iron	R	2.7371	2.6793	20000	20270	ug/L	1	10	
Magnesium	R	1.4424	1.4497	20000	21070	ug/L	5	10	
Potassium	R	2.8496	2.7915	20000	19950	ug/L	0	10	
Sodium	R	331.38	332.80	20000	20960	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	3242061	-3.19

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452023 File : 111407r Time : 14-NOV-2007 10:44
Cal : 97458452001 Caldate : 14-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.5419]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1206]	2.000	0.04231	ug/L	!ib
Boron	A	[6.361]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.9587]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.6812]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.3994]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.4785]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.833]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	[2.753]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[3.769]	5.000	1.616	ug/L	!ib
Tin	A	[6.360]	40.00	5.000	ug/L	!ib
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	3375445	0.79

!=warning ib=instrument blank

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452035 File : 111407r Time : 14-NOV-2007 11:22
Cal : 97458452001 Caldate : 14-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.774	20.819	5000	5113	ug/L	2	10	
Arsenic	A	10.790	12.216	5000	5346	ug/L	7	10	
Barium	A	110.71	112.80	5000	5199	ug/L	4	10	
Beryllium	A	5159.9	5401.3	500.0	525.4	ug/L	5	10	
Boron	A	222.19	236.93	5000	5218	ug/L	4	10	
Cadmium	A	188.04	189.14	5000	5093	ug/L	2	10	
Chromium	A	206.19	200.17	5000	4994	ug/L	0	10	
Cobalt	A	63.586	64.436	5000	4983	ug/L	0	10	
Copper	A	211.71	214.09	5000	5035	ug/L	1	10	
Lead	A	61.084	64.009	5000	5202	ug/L	4	10	
Manganese	A	567.66	555.13	5000	5078	ug/L	2	10	
Molybdenum	A	49.356	49.658	5000	5225	ug/L	5	10	
Nickel	A	95.773	98.938	5000	5040	ug/L	1	10	
Selenium	A	15.380	16.364	5000	5283	ug/L	6	10	
Silver	A	551.16	492.93	1000	847.3	ug/L	**-15**	10	c- ***
Thallium	A	12.661	12.059	5000	5189	ug/L	4	10	
Tin	A	21.300	22.088	5000	5094	ug/L	2	10	
Titanium	A	835.44	838.88	5000	5064	ug/L	1	10	
Vanadium	A	241.58	245.61	5000	5011	ug/L	0	10	
Zinc	A	107.14	96.383	5000	5092	ug/L	2	10	
Aluminum	R	0.8477	0.8423	20000	19920	ug/L	0	10	
Calcium	R	9.6232	9.4163	20000	20660	ug/L	3	10	
Iron	R	2.7371	2.6966	20000	20400	ug/L	2	10	
Magnesium	R	1.4424	1.4631	20000	21270	ug/L	6	10	
Potassium	R	2.8496	2.8146	20000	20120	ug/L	1	10	
Sodium	R	331.38	324.42	20000	20440	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	3297282	-1.54

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452037 File : 111407r Time : 14-NOV-2007 11:28
Cal : 97458452001 Caldate : 14-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.125]	5.000	1.074	ug/L	!ib
Arsenic	A	[2.156]	5.000	1.320	ug/L	!ib
Barium	A	[1.305]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1562]	2.000	0.04231	ug/L	!ib
Boron	A	[7.779]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.483]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.091]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.044]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[1.400]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.218]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.725]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.008]	5.000	0.3660	ug/L	!ib
Selenium	A	[3.424]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[4.375]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.409]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.420]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[88.42]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	3414415	1.95

!=warning ib=instrument blank

97458452037

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452041 File : 111407r Time : 14-NOV-2007 11:40
Cal : 97458452001 Caldate : 14-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	573.4	ug/L	15	20	
Arsenic	A	500.0	592.9	ug/L	19	20	
Barium	A	500.0	559.8	ug/L	12	20	
Beryllium	A	500.0	574.4	ug/L	15	20	
Cadmium	A	1000	1046	ug/L	5	20	
Chromium	A	500.0	532.4	ug/L	6	20	
Cobalt	A	500.0	493.4	ug/L	-1	20	
Copper	A	500.0	573.7	ug/L	15	20	
Lead	A	1000	1007	ug/L	1	20	
Manganese	A	500.0	550.8	ug/L	10	20	
Molybdenum	A	500.0	571.4	ug/L	14	20	
Nickel	A	1000	1008	ug/L	1	20	
Selenium	A	500.0	563.9	ug/L	13	20	
Silver	A	1000	1113	ug/L	11	20	
Thallium	A	500.0	513.3	ug/L	3	20	
Titanium	A	20000	21080	ug/L	5		
Vanadium	A	500.0	562.5	ug/L	13	20	
Zinc	A	1000	1086	ug/L	9	20	
Aluminum	R	500000	531600	ug/L	6		
Calcium	R	500000	520900	ug/L	4		
Iron	R	200000	201900	ug/L	1		
Magnesium	R	500000	535100	ug/L	7		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	2824254	-15.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452043 File : 111407r Time : 14-NOV-2007 11:49
Cal : 97458452001 Caldate : 14-NOV-2007
Standards: S7554

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	19.774	20.964	5000	5148	ug/L	3	10	
Arsenic	A	10.790	12.324	5000	5393	ug/L	8	10	
Barium	A	110.71	112.71	5000	5195	ug/L	4	10	
Beryllium	A	5159.9	5411.0	500.0	526.4	ug/L	5	10	
Boron	A	222.19	236.87	5000	5217	ug/L	4	10	
Cadmium	A	188.04	187.91	5000	5059	ug/L	1	10	
Chromium	A	206.19	200.29	5000	4997	ug/L	0	10	
Cobalt	A	63.586	65.060	5000	5032	ug/L	1	10	
Copper	A	211.71	214.28	5000	5040	ug/L	1	10	
Lead	A	61.084	64.500	5000	5242	ug/L	5	10	
Manganese	A	567.66	554.39	5000	5071	ug/L	1	10	
Molybdenum	A	49.356	50.048	5000	5266	ug/L	5	10	
Nickel	A	95.773	98.997	5000	5043	ug/L	1	10	
Selenium	A	15.380	16.502	5000	5327	ug/L	7	10	
Silver	A	551.16	494.47	1000	849.9	ug/L	**-15**	10	c- ***
Thallium	A	12.661	12.096	5000	5205	ug/L	4	10	
Tin	A	21.300	22.204	5000	5121	ug/L	2	10	
Titanium	A	835.44	838.75	5000	5063	ug/L	1	10	
Vanadium	A	241.58	245.87	5000	5016	ug/L	0	10	
Zinc	A	107.14	96.338	5000	5090	ug/L	2	10	
Aluminum	R	0.8477	0.8525	20000	20160	ug/L	1	10	
Calcium	R	9.6232	9.5478	20000	20940	ug/L	5	10	
Iron	R	2.7371	2.7331	20000	20680	ug/L	3	10	
Magnesium	R	1.4424	1.4857	20000	21600	ug/L	8	10	
Potassium	R	2.8496	2.8718	20000	20520	ug/L	3	10	
Sodium	R	331.38	328.20	20000	20670	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	3276822	-2.16

-=low bias c=CCV

97458452043

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97458452045 File : 111407r Time : 14-NOV-2007 11:54
Cal : 97458452001 Caldate : 14-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.107]	5.000	1.074	ug/L	!ib
Arsenic	A	[1.350]	5.000	1.320	ug/L	!ib
Barium	A	[1.736]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1704]	2.000	0.04231	ug/L	!ib
Boron	A	[8.385]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.964]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.700]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.479]	5.000	0.3034	ug/L	!ib
Copper	A	[1.117]	5.000	0.8535	ug/L	!ib
Lead	A	[1.645]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.645]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[4.079]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.312]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	5.524	5.000	1.616	ug/L	ib ***
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.974]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.074]	5.000	1.034	ug/L	!ib
Zinc	A	[2.036]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[14.67]	100.0	6.086	ug/L	!ib
Magnesium	R	[14.53]	200.0	10.47	ug/L	!ib
Potassium	R	[44.69]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3349002	3455678	3.19

!=warning ib=instrument blank

97458452045

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97458452 Instrument: MET09 PE ICP MET09 Begun: 14-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	111407r	ICALBLK				14-NOV-2007 08:52	1.0	1.0					
002	111407r	ICAL	CRIM08			14-NOV-2007 08:56	1.0	1.0				1	
003	111407r	ICAL	CS100			14-NOV-2007 09:01	1.0	1.0				2	
004	111407r	ICAL	CS1K			14-NOV-2007 09:04	1.0	1.0				3	
005	111407r	ICAL	CS10K			14-NOV-2007 09:06	1.0	1.0				4	
006	111407r	ICAL	CS100K			14-NOV-2007 09:10	1.0	1.0				5	
007	111407r	ICV				14-NOV-2007 09:14	1.0	1.0			5000	6	
008	111407r	ICB				14-NOV-2007 09:24	1.0	1.0			5000		
009	111407r	ICSA				14-NOV-2007 09:28	1.0	1.0			5000	7	10:AL=518579
010	111407r	ICSAB				14-NOV-2007 09:29	1.0	1.0			5000	8	5:AL=519958
011	111407r	SER	QC415261	131691	Soil	14-NOV-2007 09:56	5.0	49.50	1	5	5000		1:CA=200689
012	111407r	SAMPLE	199156-001	131691	Miscel	14-NOV-2007 10:00	10.0	49.50			5000		
013	111407r	SAMPLE	199156-002	131691	Miscel	14-NOV-2007 10:04	10.0	45.05			5000		
014	111407r	SAMPLE	199199-001	131691	Miscel	14-NOV-2007 10:08	10.0	46.73			5000		
015	111407r	SAMPLE	199199-002	131691	Miscel	14-NOV-2007 10:12	10.0	49.02			5000		
016	111407r	SAMPLE	199199-003	131691	Miscel	14-NOV-2007 10:17	10.0	49.02			5000		
017	111407r	SAMPLE	199199-004	131691	Miscel	14-NOV-2007 10:21	10.0	49.50			5000		
018	111407r	SAMPLE	199199-005	131691	Miscel	14-NOV-2007 10:25	10.0	47.17			5000		
019	111407r	X	RINSE			14-NOV-2007 10:29	1.0						
020	111407r	X				14-NOV-2007 10:34	1.0					9	
021	111407r	CCV				14-NOV-2007 10:36	1.0	1.0	1		5000	9	
022	111407r	X	FLUSH			14-NOV-2007 10:40	1.0						
023	111407r	CCB				14-NOV-2007 10:44	1.0	1.0			5000		
024	111407r	SAMPLE	199211-001	131691	Soil	14-NOV-2007 10:48	1.0	46.73	2		5000		4:FE=566752
025	111407r	X	RINSE			14-NOV-2007 10:52	1.0						
026	111407r	MS	QC415266	131692	Soil	14-NOV-2007 10:56	1.0	48.08	2	3	5000		4:FE=435541
027	111407r	MSD	QC415267	131692	Soil	14-NOV-2007 10:58	1.0	47.62	4	3	5000		6:FE=476956
028	111407r	PDS	QC415271	131692	Soil	14-NOV-2007 11:02	1.0	48.54	1	1	5000	10 11	3:FE=422140
029	111407r	MS	QC415266	131692	Soil	14-NOV-2007 11:05	10.0	48.08	1	4	5000		
030	111407r	MSD	QC415267	131692	Soil	14-NOV-2007 11:08	10.0	47.62	1	7	5000		
031	111407r	SAMPLE	199163-001	131692	Soil	14-NOV-2007 11:11	1.0	49.02	2		5000		3:FE=337060

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/14/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97458452 Instrument: MET09 PE ICP MET09 Begun: 14-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
32	111407r	SAMPLE	199163-002	131692	Soil	14-NOV-2007 11:13	1.0	49.02	2	5000		3:FE=369414
33	111407r	SAMPLE	199163-001	131692	Soil	14-NOV-2007 11:16	1.0	49.02	2	5000		3:FE=336997
34	111407r	X	RINSE			14-NOV-2007 11:18	1.0					
35	111407r	CCV				14-NOV-2007 11:22	1.0	1.0	1	5000	9	
36	111407r	X	FLUSH			14-NOV-2007 11:24	1.0					
37	111407r	CCB				14-NOV-2007 11:28	1.0	1.0		5000		
38	111407r	SAMPLE	199163-005	131692	Soil	14-NOV-2007 11:32	1.0	46.73	1	5000		4:FE=258860
39	111407r	SAMPLE	199163-006	131692	Soil	14-NOV-2007 11:35	10.0	48.54	3	5000		
40	111407r	SAMPLE	199163-006	131692	Soil	14-NOV-2007 11:38	1.0	48.54	2	5000		5:CA=646348
41	111407r	ICSAB				14-NOV-2007 11:40	1.0	1.0		5000	8	5:MG=535129
42	111407r	X	RINSE			14-NOV-2007 11:44	1.0					
43	111407r	CCV				14-NOV-2007 11:49	1.0	1.0	1	5000	9	
44	111407r	X	FLUSH			14-NOV-2007 11:50	1.0					
45	111407r	CCB				14-NOV-2007 11:54	1.0	1.0	1	5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7553 7=S7557 8=S7324 9=S7554 10=S6918 11=S6919

Analyst: _____ Date: 11/14/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 199163 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
199163-001	MET14	11/13/07 14:09	1.0										+							
199163-001	MET08	11/14/07 00:19	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
199163-001	MET09	11/14/07 11:11	1.0																	
199163-001	MET09	11/14/07 11:16	1.0	+																
199163-002	MET14	11/13/07 14:11	1.0										+							
199163-002	MET08	11/14/07 00:21	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
199163-002	MET09	11/14/07 11:13	1.0	+																
199163-003	MET14	11/13/07 14:15	1.0										+							
199163-003	MET08	11/14/07 00:23	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
199163-004	MET14	11/13/07 13:17	1.0										+							
199163-004	MET08	11/13/07 23:39	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
199163-004	MET08	11/14/07 00:06	1.0	+																
199163-005	MET14	11/13/07 14:17	1.0										+							
199163-005	MET08	11/14/07 00:25	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
199163-005	MET09	11/14/07 11:32	1.0	+																
199163-006	MET14	11/13/07 14:20	1.0										+							
199163-006	MET08	11/14/07 00:28	1.0				+	+	+	+	+	+		+	+	+	+	+	+	+
199163-006	MET09	11/14/07 11:35	10.0	+		+														
199163-006	MET09	11/14/07 11:38	1.0		+															
QC415120	MET14	11/13/07 13:10	1.0										+							
QC415121	MET14	11/13/07 13:12	1.0										+							
QC415122	MET14	11/13/07 13:15	1.0										+							
QC415123	MET14	11/13/07 14:38	5.0										+							
QC415124	MET14	11/13/07 13:22	1.0										+							
QC415125	MET14	11/13/07 13:24	1.0										+							
QC415263	MET08	11/13/07 23:29	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC415264	MET08	11/13/07 23:33	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC415265	MET08	11/13/07 23:36	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC415266	MET08	11/13/07 23:41	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+
QC415266	MET09	11/14/07 10:56	1.0																	
QC415266	MET09	11/14/07 11:05	10.0									+								
QC415267	MET08	11/13/07 23:43	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+

00234

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 199163 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN	
QC415267	MET09	11/14/07 10:58	1.0																		
QC415267	MET09	11/14/07 11:08	10.0									+									
QC415268	MET08	11/14/07 00:12	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC415269	MET08	11/14/07 00:14	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC415270	MET08	11/13/07 23:46	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC415271	MET08	11/13/07 23:49	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC415271	MET09	11/14/07 11:02	1.0																		

Curtis & Tompkins Laboratories Sample Preparation Summary 14-NOV-2007 08:11

Batch Number : 131692
Date Extracted: 13-NOV-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
199163-001			Mactec, Inc.	Soil	1.02	g	50	49.019608	1				T26/ICP		
199163-002			Mactec, Inc.	Soil	1.02	g	50	49.019608	1				T26/ICP		
199163-003			Mactec, Inc.	Soil	1.07	g	50	46.728972	1				T26/ICP		
199163-004			Mactec, Inc.	Soil	1.03	g	50	48.543689	1				T26/ICP		
199163-005			Mactec, Inc.	Soil	1.07	g	50	46.728972	1				T26/ICP		
199163-006			Mactec, Inc.	Soil	1.03	g	50	48.543689	1				T26/ICP		
199181-001			Shaw E&I	Soil	1.07	g	50	46.728972	1				PB		
199181-002			Shaw E&I	Soil	1.01	g	50	49.504950	1				PB		
199219-002			Presidio Trust	Soil	1.05	g	50	47.619048	1				PB		
199219-003			Presidio Trust	Soil	1.03	g	50	48.543689	1				PB		
199219-004			Presidio Trust	Soil	1.07	g	50	46.728972	1				PB		
199219-005			Presidio Trust	Soil	1.04	g	50	48.076923	1				PB		
199219-006			Presidio Trust	Soil	1.09	g	50	45.871560	1				PB		
199219-007			Presidio Trust	Soil	1.02	g	50	49.019608	1				PB		
199219-008			Presidio Trust	Soil	1.03	g	50	48.543689	1				PB		
199219-009			Presidio Trust	Soil	1.02	g	50	49.019608	1				PB		
QC415263	BLANK			Soil	1	g	50	50.000000	1				ICAP		
QC415264	BS			Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC415265	BSD			Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC415266	MS	of 199163-004		Soil	1.04	g	50	48.076923	1	.5	.5		ICAP		
QC415267	MSD	of 199163-004		Soil	1.05	g	50	47.619048	1	.5	.5		ICAP		
QC415268	MS	of 199181-002		Soil	1.03	g	50	48.543689	1	.5	.5		ICAP		
QC415269	MSD	of 199181-002		Soil	1.09	g	50	45.871560	1	.5	.5		ICAP		
QC415270	SER	of 199163-004		Soil	1.03	g	50	48.543689	1				ICAP		
QC415271	PDS	of 199163-004		Soil	1.03	g	50	48.543689	1				ICAP		

Prep Chemist: For MCB by DP 11/14/07 Reviewed By: [signature] Date: 11/14/07

Relinquished By: For MCB [signature] Received By: [signature] Date: 11/14/07

SDG 131692

Soil Digestion for ICP & ICP-MS 7:25 PM Curtis & Tompkins, Ltd.

LIMS Batch #: 131692
Date Digested: 11/13/07
Digested by: MCB III

Digestion Method
☑ EPA 3050b
☐ _____

BK 2606
Page 51

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	Ø	50	Y	
BS	↓	↓	↓	
BSD	↓			
MS-163-004 A	1.04			
MSD-163-004	1.05			
199163-004	1.03			
MS-181-002	1.03			
MSD-181-002	1.09			
199181-002	1.01			
↓ -001	1.07			
199163-001	1.02			
-002	1.02			
-003	1.07			
-005	1.07			
↓ -006	1.03			
199219-002	1.05			
-003	1.03			
-004	1.07			
-005	1.04			
-006	1.09			
-007	1.02			
-008	1.03			
-009	1.02			

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	MCB III 11/13/07
.5 mL of spike solution was added to all spikes	56918	
	56919	
1:1 HNO3	E09043 JTBAKER	
concentrated HNO3	E26035	
3mL 30% hydrogen peroxide	E26A05	
concentrated HCl	E21053	
☑ filtered thru' Whatman # 541	H11206689	
Relinquished to ICP group		

Michael C Drock III 11/13/07
Extraction Chemist / Date

Continued from page 1
Continued on page _____

11/13/07
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

ist : MET14
lnum : 847457248001
its : ug/L

Date : 13-NOV-2007 12:48
X Axis : R

Reviewer : ---
Type : SOIL

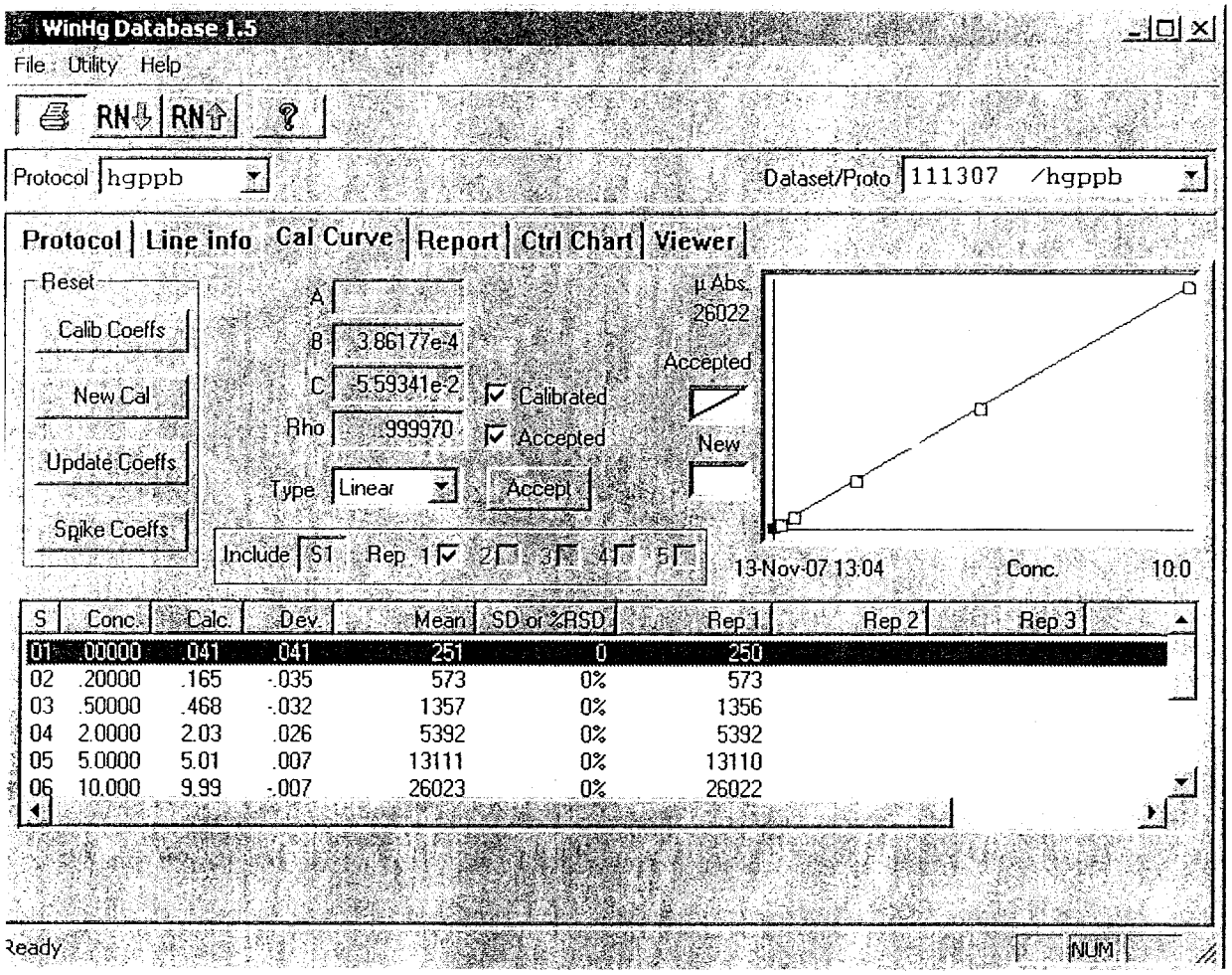
vel	File	Seqnum	Sample ID	Analyzed	Stds
1	131659	847457248002	STD02REP1	13-NOV-2007 12:51	S7675 (500X)
2	131659	847457248003	STD03REP1	13-NOV-2007 12:53	S7675 (200X)
3	131659	847457248004	STD04REP1	13-NOV-2007 12:56	S7675 (50X)
4	131659	847457248005	STD05REP1	13-NOV-2007 12:58	S7675 (20X)
5	131659	847457248006	STD06REP1	13-NOV-2007 13:01	S7675 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
rcury	2865.0	2712.0	2696.0	2622.0	2602.2	LINR	-0.0559	3.86E-4		2699.4	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
rcury	0.200	-17	0.500	-6	2.000	1	5.000	0	10.00	0

rument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

847457248001


WinHg Database 1.5
File Utility Help
RN RN
Protocol hgppb
Dataset/Proto 111307 /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 3.86177e-4
C -5.59341e-2
Rho 999970
Type Linear
Calibrated
Accepted
Accept
µ Abs
26022
Accepted
New
Include S1 Rep 1 2 3 4 5
13-Nov-07 13:04
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 .041 .041 251 0 250
02 .20000 .165 -.035 573 0% 573
03 .50000 .468 -.032 1357 0% 1356
04 2.0000 2.03 .026 5392 0% 5392
05 5.0000 5.01 .007 13111 0% 13110
06 10.000 9.99 -.007 26023 0% 26022
Ready
NUM

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		12:48:42 13 Nov 07		HG	
Hg	.000	ppb	250						
		Bkgd 1	16621589						= =
*** Standard: 2 Rep: 1				Seq: 2		12:51:09 13 Nov 07		HG	
Hg	.200	ppb	573						
		Bkgd 1	16611944						= =
*** Standard: 3 Rep: 1				Seq: 3		12:53:26 13 Nov 07		HG	
Hg	.500	ppb	1356						
		Bkgd 1	16604461						= =
*** Standard: 4 Rep: 1				Seq: 4		12:56:10 13 Nov 07		HG	
Hg	2.00	ppb	5392						
		Bkgd 1	16595374						= =
*** Standard: 5 Rep: 1				Seq: 5		12:58:26 13 Nov 07		HG	
Hg	5.00	ppb	13110						
		Bkgd 1	16586870						= =
*** Standard: 6 Rep: 1				Seq: 6		13:01:01 13 Nov 07		HG	
Hg	10.0	ppb	26022						
		Bkgd 1	16570233						= =
*** Check Standard: 2			Ck2S7677	Seq: 7		13:06:19 13 Nov 07		HG	
Line	Flag		Intensities						
Hg			13505						
		Bkgd 1	16553682						= =
*** Check Standard: 1			Ck1ICB	Seq: 8		13:08:36 13 Nov 07		HG	
Line	Flag		Intensities						
Hg			-35						
		Bkgd 1	16537841						= =
*** Sample ID: qc415120				Seq: 9		13:10:43 13 Nov 07		HG	
			131659,1						
Hg	-.023	ppb	86						
		Bkgd 1	16541340						= =

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 847457248 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 13-NOV-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv10
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
131659	ICALBLK	STD01REP1				13-NOV-2007 12:48	1.0	1.0									
131659	ICAL	STD02REP1				13-NOV-2007 12:51	1.0	1.0									
131659	ICAL	STD03REP1				13-NOV-2007 12:53	1.0	1.0									
131659	ICAL	STD04REP1				13-NOV-2007 12:56	1.0	1.0									
131659	ICAL	STD05REP1				13-NOV-2007 12:58	1.0	1.0									
131659	ICAL	STD06REP1				13-NOV-2007 13:01	1.0	1.0									
131659	ICV					13-NOV-2007 13:06	1.0	1.0	2	5.000	847457248001	5.160		ug/L	103		
131659	ICB					13-NOV-2007 13:08	1.0	1.0			847457248001	ND	0.20	ug/L			
131659	BLANK	QC415120		131659	Soil	13-NOV-2007 13:10	1.0	100.0			847457248001	ND	0.020	mg/Kg			u
131659	BS	QC415121		131659	Soil	13-NOV-2007 13:12	1.0	100.0		0.5000	847457248001	0.4620	0.020	mg/Kg	92		u
131659	BSD	QC415122		131659	Soil	13-NOV-2007 13:15	1.0	100.0		0.5000	847457248001	0.4810	0.020	mg/Kg	96	4	u
131659	MSS	199163-004		131659	Soil	13-NOV-2007 13:17	1.0	84.75			847457248001	0.24	0.020	mg/Kg			u
131659	MS	QC415124	199163-004	131659	Soil	13-NOV-2007 13:22	1.0	86.21		0.4310	847457248001	0.7138	0.020	mg/Kg	110		u
131659	MSD	QC415125	199163-004	131659	Soil	13-NOV-2007 13:24	1.0	92.59		0.4630	847457248001	0.7306	0.020	mg/Kg	106	2	u
131659	SAMPLE	199075-001		131659	Soil	13-NOV-2007 13:26	1.0	106.4			847457248001	0.41	0.021	mg/Kg			u
131659	SAMPLE	199075-002		131659	Soil	13-NOV-2007 13:29	1.0	100.0			847457248001	0.024	0.020	mg/Kg			u
131659	SAMPLE	199091-001		131659	Soil	13-NOV-2007 13:31	1.0	92.59			847457248001	0.096	0.020	mg/Kg			u
131659	CCV					13-NOV-2007 13:33	1.0	1.0	3	2.500	847457248001	2.630		ug/L	105		
131659	CCB					13-NOV-2007 13:35	1.0	1.0			847457248001	ND	0.20	ug/L			
131659	SAMPLE	199091-002		131659	Soil	13-NOV-2007 13:37	1.0	87.72			847457248001	0.12	0.020	mg/Kg			u
131659	SAMPLE	199091-003		131659	Soil	13-NOV-2007 13:40	1.0	104.2			847457248001	0.033	0.021	mg/Kg			u
131659	SAMPLE	199091-004		131659	Soil	13-NOV-2007 13:42	1.0	89.29			847457248001	0.16	0.020	mg/Kg			u
131659	SAMPLE	199091-005		131659	Soil	13-NOV-2007 13:44	1.0	94.34			847457248001	0.028	0.020	mg/Kg			u
131659	SAMPLE	199091-006		131659	Soil	13-NOV-2007 13:46	1.0	92.59			847457248001	0.14	0.020	mg/Kg			u
131659	SAMPLE	199091-007		131659	Soil	13-NOV-2007 13:49	1.0	84.75			847457248001	0.040	0.020	mg/Kg			u
131659	SAMPLE	199091-008		131659	Soil	13-NOV-2007 13:51	1.0	102.0			847457248001	0.11	0.020	mg/Kg			u
131659	SAMPLE	199091-009		131659	Soil	13-NOV-2007 13:53	1.0	98.04			847457248001	0.16	0.020	mg/Kg			u
131659	SAMPLE	199091-010		131659	Soil	13-NOV-2007 13:55	1.0	92.59			847457248001	ND	0.020	mg/Kg			u
131659	SAMPLE	199091-011		131659	Soil	13-NOV-2007 13:58	1.0	79.37			847457248001	0.045	0.020	mg/Kg			u
131659	CCV					13-NOV-2007 14:01	1.0	1.0	4	5.000	847457248001	4.950		ug/L	99		
131659	CCB					13-NOV-2007 14:03	1.0	1.0			847457248001	ND	0.20	ug/L			
131659	SAMPLE	199157-002		131659	Soil	13-NOV-2007 14:06	1.0	94.34			847457248001	ND	0.020	mg/Kg			u
131659	SAMPLE	199163-001		131659	Soil	13-NOV-2007 14:09	1.0	100.0			847457248001	0.024	0.020	mg/Kg			u
131659	SAMPLE	199163-002		131659	Soil	13-NOV-2007 14:11	1.0	84.75			847457248001	0.049	0.020	mg/Kg			u
131659	SAMPLE	199163-003		131659	Soil	13-NOV-2007 14:15	1.0	100.0			847457248001	0.88	0.020	mg/Kg			u
131659	SAMPLE	199163-005		131659	Soil	13-NOV-2007 14:17	1.0	92.59			847457248001	0.0090 J	0.020	mg/Kg			u
131659	SAMPLE	199163-006		131659	Soil	13-NOV-2007 14:20	1.0	102.0			847457248001	0.082	0.020	mg/Kg			u
131659	CCV					13-NOV-2007 14:22	1.0	1.0	5	7.500	847457248001	7.550		ug/L	101		
131659	CCB					13-NOV-2007 14:25	1.0	1.0			847457248001	ND	0.20	ug/L			
131659	SER	QC415123	199163-004	131659	Soil	13-NOV-2007 14:38	5.0	84.75			847457248001	0.23	0.085	mg/Kg	3		u
131659	CCV					13-NOV-2007 14:41	1.0	1.0	5	7.500	847457248001	7.520		ug/L	100		
131659	CCB					13-NOV-2007 14:44	1.0	1.0			847457248001	ND	0.20	ug/L			

d used: 1=S7675 2=S7677 3=S7678 4=S7679 5=S7680
g used: u=use

alyst: _____ Date: 11/13/07

e of 1

Curtis & Tompkins Laboratories Sample Preparation Summary 13-NOV-2007 12:05

Batch Number : 131659
Date Extracted: 13-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7675
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
199075-001			ConocoPhillips Company	Soil	.47	g	50	106.382979	1					T26/HG		
199075-002			ConocoPhillips Company	Soil	.5	g	50	100.000000	1					T26/HG		
199091-001			Weston Solutions	Soil	.54	g	50	92.592593	1					TAL/HG		
199091-002			Weston Solutions	Soil	.57	g	50	87.719298	1					TAL/HG		
199091-003			Weston Solutions	Soil	.48	g	50	104.166667	1					TAL/HG		
199091-004			Weston Solutions	Soil	.56	g	50	89.285714	1					TAL/HG		
199091-005			Weston Solutions	Soil	.53	g	50	94.339623	1					TAL/HG		
199091-006			Weston Solutions	Soil	.54	g	50	92.592593	1					TAL/HG		
199091-007			Weston Solutions	Soil	.59	g	50	84.745763	1					TAL/HG		
199091-008			Weston Solutions	Soil	.49	g	50	102.040816	1					TAL/HG		
199091-009			Weston Solutions	Soil	.51	g	50	98.039216	1					TAL/HG		
199091-010			Weston Solutions	Soil	.54	g	50	92.592593	1					TAL/HG		
199091-011			Weston Solutions	Soil	.63	g	50	79.365079	1					TAL/HG		
199157-002			Blasland, Bouck & Lee	Soil	.53	g	50	94.339623	1					PP13/HG		
199163-001			Mactec, Inc.	Soil	.5	g	50	100.000000	1					T26/HG		
199163-002			Mactec, Inc.	Soil	.59	g	50	84.745763	1					T26/HG		
199163-003			Mactec, Inc.	Soil	.5	g	50	100.000000	1					T26/HG		
199163-004			Mactec, Inc.	Soil	.59	g	50	84.745763	1					T26/HG		MSS
199163-005			Mactec, Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
199163-006			Mactec, Inc.	Soil	.49	g	50	102.040816	1					T26/HG		
QC415120	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC415121	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC415122	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC415123	SER	of 199163-004		Soil	.59	g	50	84.745763	1					HG		
QC415124	MS	of 199163-004		Soil	.58	g	50	86.206897	1		2.5			HG		
QC415125	MSD	of 199163-004		Soil	.54	g	50	92.592593	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/13/07

Relinquished By: _____ Received By: _____ Date: 111307

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: B1659

Date Digested: 11/13/07

Digested by: JXM

Digestion Method

☒ EPA 7471A

☐ _____

BK 2605

Page 21

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
P99075-001 A	0.47	50.0	Y	
↓ 02	0.50			
P99091-001	0.51			
02	0.57			
03	0.48			
04	0.56			
05	0.53			
06	0.54			
07	0.54			
08	0.44			
09	0.51			
10	0.54			
↓ 11	0.63			
P99157-002	0.53			
P99163-001	0.50			
02	0.54			
03	0.50			
04	0.54			MSS
05	0.54			
↓ 06 ↓	0.44			
MB QC415120	0.50			
BS 21	↓			
BSD 22	↓			
MS 24	0.58			
MSD ↓ 25	0.54	↓	↓	

25 mL of spike solution was added to all spikes

Digestion of Samples & Standards:	Reagent ID/ LIMS# / Time	Initials / Date
	S7675	JXM 11/13/07
ICAL Source WS#	↓	↓
ICV / CCV WS#	S7677/76179/60	
Time ON / Temperature ON	12:00 / 95C	
Time OFF/ Temperature OFF	12:30 / 95C	
Aqua Regia Acids (HNO3+ HCl)	AR 111307	
5% $KMnO_4$	K 110907	
NaCl.hydroxylamine hydrochloride	Hy 110907	
Stannous Chloride	$SnCl_2$ 110507	
☒ filtered thru' 0.45 um syringe filter	R7CN29662	↓

11/13/07

Prep Chemist / Date

Continued from page 1

Continued on page

11/13/07

Reviewed by / Date

Curtis & Tompkins,

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	131697
Matrix:	Soil	Sampled:	11/12/07
Units:	%	Received:	11/12/07
Diln Fac:	1.000	Analyzed:	11/13/07

Field ID	Lab ID	Result	RL
1065EX341[7.0]	199163-001	18	1
DUP111207	199163-002	23	1
1065EX342[5.0]	199163-003	9	1
1065EX343[5.0]	199163-004	11	1
1065EX344[5.0]	199163-005	13	1
1065EX345[5.0]	199163-006	12	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture			
Lab #:	199163	Location:	Bldg 1065 EX 2 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	1065EX341[7.0]	Diln Fac:	1.000
Type:	SDUP	Batch#:	131697
MSS Lab ID:	199163-001	Sampled:	11/12/07
Lab ID:	QC415282	Received:	11/12/07
Matrix:	Soil	Analyzed:	11/13/07

MSS Result	Result	RL	RPD Lim
18.30	10.87	1.000	51 * 15

*= Value outside of QC limits; see narrative
RL= Reporting Limit
RPD= Relative Percent Difference

50.0

Percent Moisture Summary Report

Batch: 131697
Date: 11/13/07
Method: CLP SOW 390
Analyst: VV

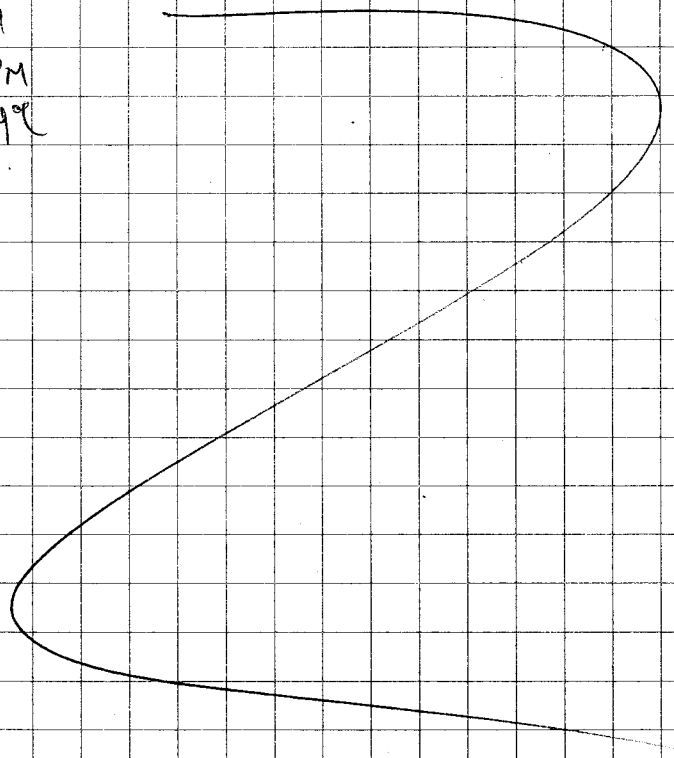
Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
199163-001	11.3380	18.5894	17.2624	82	18
199163-002	10.9176	17.1152	15.6946	77	23
199163-003	11.2463	17.8261	17.2099	91	9
199163-004	11.3233	17.8659	17.1138	89	11
199163-005	11.2857	20.0917	18.9848	87	13
199163-006	11.2366	18.0580	17.2121	88	12
QC415282	11.3677	17.9527	17.2370	89	11
of 199163-001			RPD:	8.7%	51.0%

11-13-07

B# 131697

Sample	SL	Dish	Dish wt.	Sample wt.	Final wt.	Comments
BK	QC	F.D.	11.2579	∅	11.2557	
199163-001	A	CT20	11.3380	18.5894	17.2624	
- 002		H75	10.9176	17.1152	15.6946	
- 003		K10	11.2463	17.8261	17.2099	
- 004		C28	11.3233	17.8659	17.1138	
SDUP - 004		K03	11.3677	17.9527	17.2370	
- 005		CT1	11.2857	20.0917	18.9848	
- 006		CT23	11.2366	18.0580	17.2121	

Time in 6pm
out 12PM
oven temp 104°



Continued on Page

Read and Understood By

Signed 11-13-07 Date Signed 11/14/07 Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131697
Date Started: 13-NOV-2007
Batched by : Victor Vergara

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
199163-001		Mactec, Inc.	Soil	MOISTURE	14-NOV-2007
199163-002		Mactec, Inc.	Soil	MOISTURE	14-NOV-2007
199163-003		Mactec, Inc.	Soil	MOISTURE	14-NOV-2007
199163-004		Mactec, Inc.	Soil	MOISTURE	14-NOV-2007
199163-005		Mactec, Inc.	Soil	MOISTURE	14-NOV-2007
199163-006		Mactec, Inc.	Soil	MOISTURE	14-NOV-2007
QC415282	SDUP of 199163-001		Soil	MOISTURE	

PROJECT METTLER AE-2000

Notebook No. BK-95L

Continued From Page 0

DATE	0.2000	1.0000	10.0000	50.0000	INTIAL	weight set
10-19-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-20-07	0.2000	1.0000	10.0000	50.0000	TO	35298
10-21-07	0.2000	1.0000	10.0000	50.0000	HO	35298
10-22-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-23-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-24-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-25-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-27-07	0.2000	1.0000	10.0000	50.0000	HO	35298
10-29-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-30-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-31-07	0.2000	1.0000	10.0000	50.0000	MO	35298
11-1-07	0.2000	1.0000	10.000	50.0000	VV	35298
11-2-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-3-07	0.2000	1.0000	10.0000	49.9999	HO	35298
11-4-07	0.2000	1.0000	10.0000	50.0000	HO	35298
11-5-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-6-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-7-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-8-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-9-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-10-07	0.2000	1.0000	10.0000	50.0000	HO	35298
11-11-07	0.2000	1.0000	10.0000	50.0000	HO	35298
11-12-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-13-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-14-07	0.2000	1.0000	10.0000	50.0000	VV	35298

Continued on Page

Read and Understood By

Signed Date Signed Date

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	HO	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	103°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	HO	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HO	105°C
10-7-07	HO	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HO	104°C
10-14-07	HO	104°C
10-16-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HO	105°C
10-21-07	HO	105°C
10-22-07	VV	103°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	HO	105°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	MDH	103°C
11-1-07	VV	103°C
11-2-07	VV	104°C
11-3-07	HO	105°C
11-4-07	HO	105°C

Date	Initials	Temp (*C)
11-5-07	VV	103°C
11-6-07	VV	104°C
11-07-07	VV	103°C
11-8-07	VV	105°C
11-9-07	VV	105°C
11-10-07	HO	105°C
11-11-07	HO	105°C
1112-07	VV	105°C
11-13-07	VV	104°C
11-14-07	VV	104°C

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 199248
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 Presidio--Ex Area 3 Level : III

Sample ID	Lab ID
1065EX366[4.0]	199248-001
1065EX367[4.0]	199248-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/07/2007
Project Manager

Signature: _____ Date: 12/10/2007
Operations Manager

NELAP # 01107CA

00001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**199248**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio--Ex Area 3**
Request Date:	**11/14/07**
Samples Received:	**11/14/07**

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 11/14/07. The sample was received on ice and intact. Sample 1065EX367[4.0] (lab # 199248-002) was not used as the designated spike sample for PAHs and mercury; the samples were prepared prior to identification of this sample.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 131741; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High responses were observed for 2,2-dichloropropane and tetrachloroethene in the CCV analyzed 11/14/07 08:39; these analytes were not detected at or above the RL in the associated samples. Methylene chloride was detected between the MDL and the RL in the method blank for batch 131706; this analyte was not detected in the sample at or above the RL. Methylene chloride was detected between the MDL and the RL in 1065EX367[4.0] (lab # 199248-002); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
Matrix spikes were not reported for batch 131815 because the parent sample required a dilution that would have diluted out the spikes. The sample spiked was not from this site. 2-methylnaphthalene and phenanthrene were detected between the MDL and the RL in the method blank for batch 131815; these analytes were not detected in the sample at or above the RL. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for many analytes in the MS/MSD of 1065EX367[4.0] (lab # 199248-002); the BS/BSD were within limits, and the associated RPDs were within limits. High % differences were observed for many analytes in the serial dilution of 1065EX367[4.0] (lab # 199248-002). Beryllium, nickel, and selenium were detected between the MDL and the RL in the method blank for batch 131816; these analytes were detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**199248**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio--Ex Area 3**
Request Date:	**11/14/07**
Samples Received:	**11/14/07**

Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3827

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

199248

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Bldg 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065-Ex Area 3
JOB NO.: 408407.5115 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 11/14/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES including VOCs (8260B) BTEX & Hexanone	TPHg (8015M)	TPHd & TPHmo-W silica gel	PAHs (8270-SIM)	Title 22 metals	Acetone	FOR LAB USE ONLY
940	X		SO	1065EX366[4.0]	5584E-4		7					X		
930	X		SO	1065EX367[4.0]	12515W-4	+MS/MSD	2	X	X	X	X	X		

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	11/14/07 1200		11-14-07 1235			11/14/07 12:35

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl III Data Validation
48hr TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

on ice, intact

F1008 (05/00)

Steve Stanley

From: "Graham, Scott" <SRGRAHAM@mactec.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Heassler, Mary Jo" <MHeassler@mactec.com>
Sent: Wednesday, November 14, 2007 1:57 PM
Subject: FW: Is the acetone really at that concentration?

Steve,

It looks like the acetone sample that I collected today (1065Ex366[4.0] at 940 am) will be put on hold and not analyzed. Just wanted to let you know before you started the analyses.

Thank you,

Scott

From: Heassler, Mary Jo
Sent: Wednesday, November 14, 2007 1:04 PM
To: Graham, Scott; Seelbach, Ryan
Cc: Carlyon, Kristen
Subject: FW: Is the acetone really at that concentration?

The acetone result for sample 106ex\\\5 was qualified as not detected. Because of the short turnaround, we did not have time to load any qualifiers. The table will be updated for the next meeting.

From: Hart, Mary
Sent: Wednesday, November 14, 2007 12:32 PM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen
Subject: RE: Is the acetone really at that concentration?

Hi Mary Jo

That acetone result was changed to ND due to blank contamination (as was the methylene chloride hit). The reporting limit for acetone for that sample was 6000 ug/kg. The sample required a dilution due to total petroleum hydrocarbons present in the sample.

From: Heassler, Mary Jo
Sent: Wednesday, November 14, 2007 12:25 PM
To: Carlyon, Kristen; Graham, Scott; Hart, Mary
Subject: Is the acetone really at that concentration?
Importance: High

I am checking on the analytical result for acetone in sample 1065EX357 which shows up as an exceedance on the attached table. I want to verify that that result was reviewed during the Level II and could not be qualified as non detect and that there were no calculation errors based on dilutions that would result in order of magnitude changes in concentrations. We have collected a sample adjacent to that sample and will be analyzing it for acetone, but before doing soil wanted to verify that the result was reviewed and will be reported at that concentration. Thanks for your help. Scott has already collected the sample and has put it on hold and is waiting on an answer from you.

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 199248 Date Received: 11/14/07 Number of Coolers: 1
Client: Mactec Project: Presidio Bldg 1063

A. Preliminary Examination Phase
Date Opened: 11/14 By (print): KWellbrock (sign) KWellbrock

1. Did cooler come with a shipping slip (airbill, etc.)? (YES) NO
If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? (YES) NO
How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO N/A
4. Were custody papers dry and intact when received? (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? (YES) NO
6. Did you sign the custody papers in the appropriate place? (YES) NO
7. Was project identifiable from custody papers? (YES) NO
If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: bags
9. If required, was sufficient ice used? Samples should be <=6 degrees C. YES NO
Type of ice: wet Temperature: no temp blank - cold on ice
10. Were Encore sampling devices present in the cooler? (YES) NO
If YES, enter time they were transferred to the freezer 1402

B. Login Phase
Date Logged In: 11/14 By (print): KWellbrock (sign) KWellbrock

1. Did all bottles arrive unbroken? (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? (YES) NO
3. Did bottle labels agree with custody papers? (YES) NO
4. Were appropriate containers used for the tests indicated? (YES) NO
5. Were correct preservatives added to samples? N/A YES NO
6. Was sufficient amount of sample sent for tests indicated? (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below N/A YES NO
8. Was the client contacted concerning this sample delivery? YES NO
If YES, give details below.
Who was called? By whom? Date:

Additional Comments:

TPH-PURGEABLE HYDROCARBONS IN SOIL

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX367[4.0]	Batch#:	131741
Matrix:	Soil	Sampled:	11/14/07
Units:	mg/Kg	Received:	11/14/07
Diln Fac:	1.000		

Type:	SAMPLE	Moisture:	9%
Lab ID:	199248-002	Analyzed:	11/15/07
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.064 J	1.1	0.018

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	65-135
Bromofluorobenzene (FID)	88	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC415465	Analyzed:	11/14/07

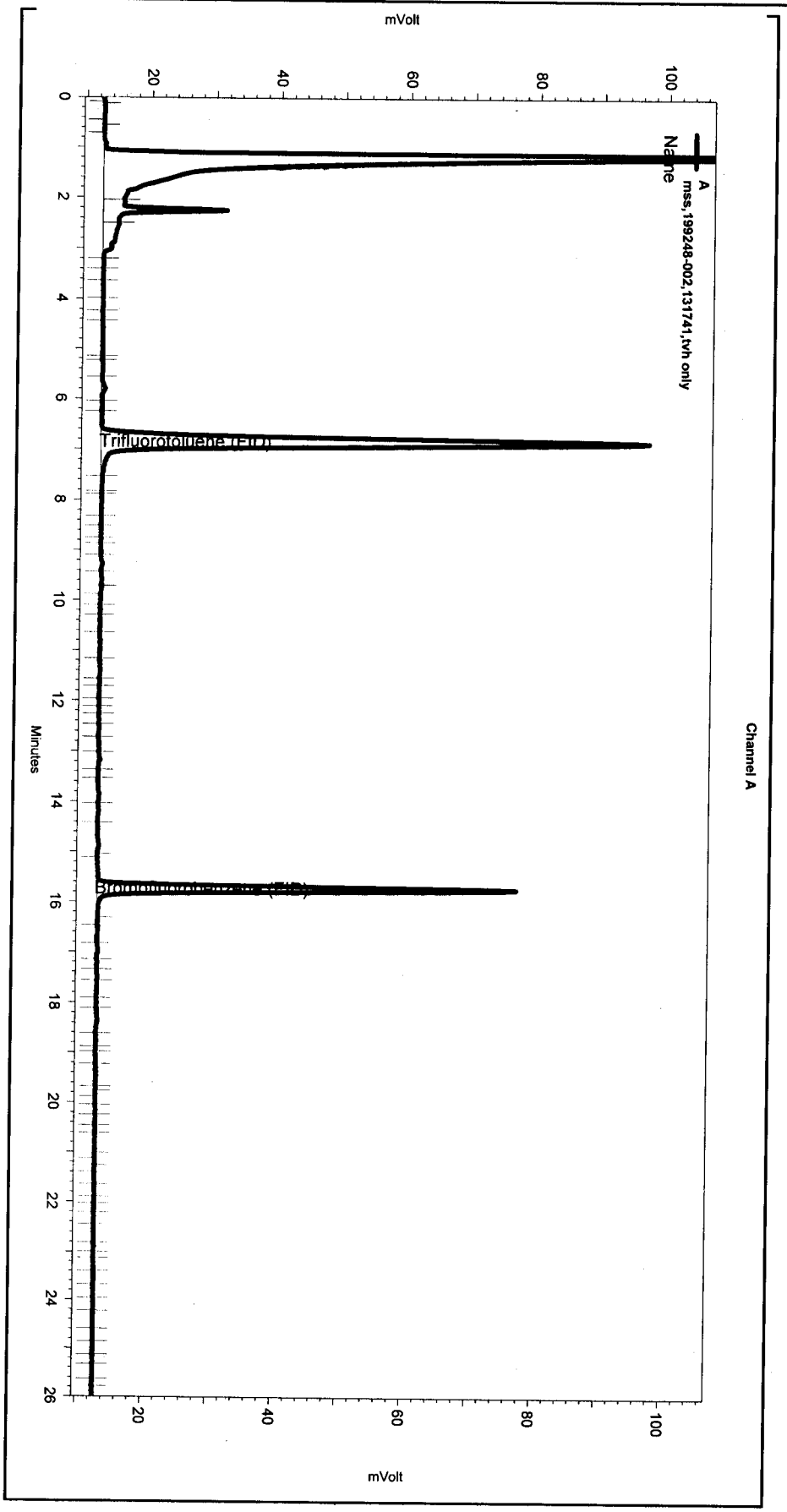
Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.20	0.0033

Surrogate	%REC	Limits
Trifluorotoluene (FID)	80	65-135
Bromofluorobenzene (FID)	77	65-135

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC19\Sequence\318.seq**
Sample Name: **mss,199248-002,131741,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC19\Data\318_023**
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe303.met

Software Version 3.1.7
Run Date: 11/15/2007 3:16:17 AM
Analysis Date: 11/15/2007 7:25:11 AM
Sample Amount: 1.03 Multiplier: 1.03
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

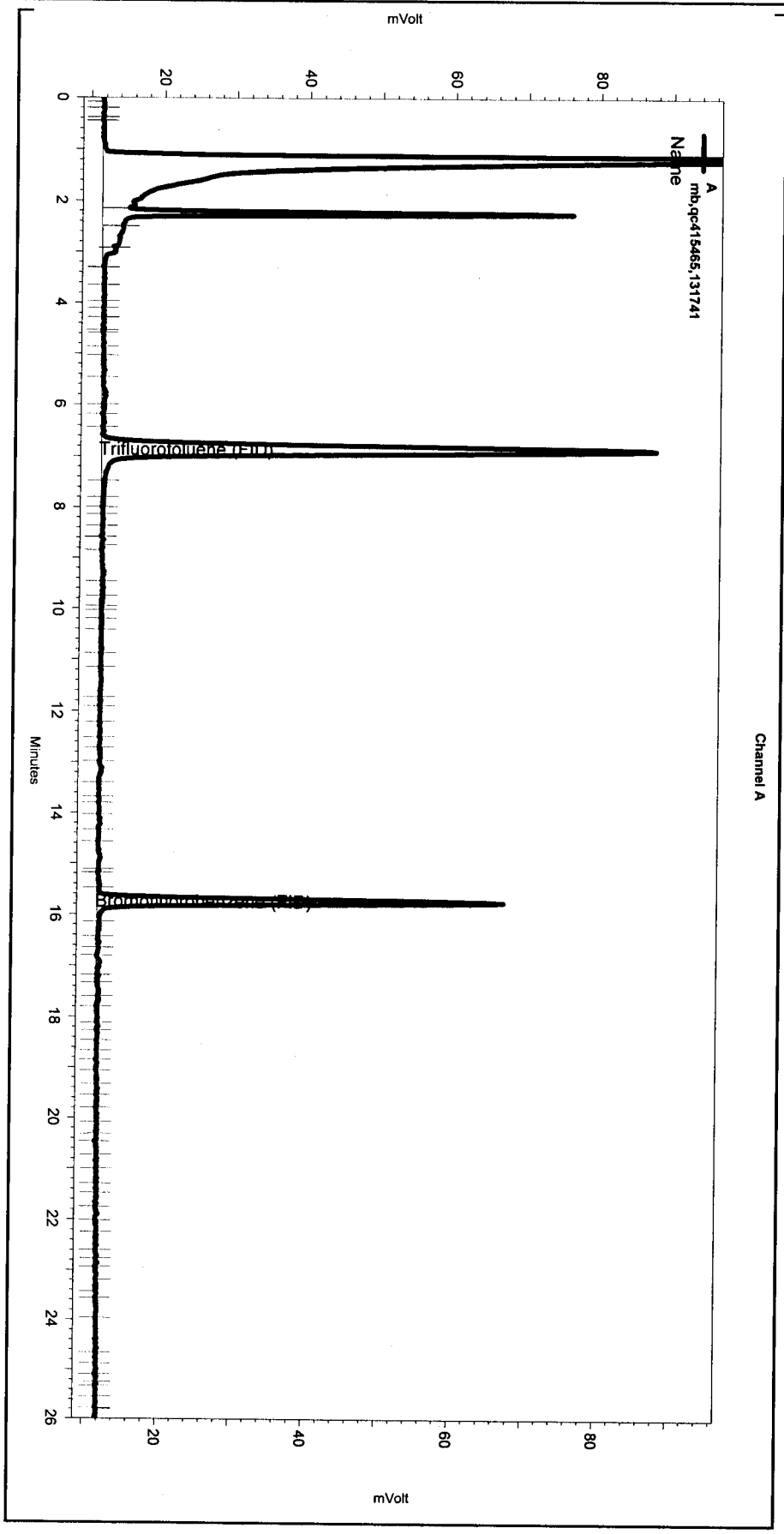
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\318_023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC19\Sequence\318.seq**
Sample Name: **mb,qc415465,131741**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC19\Data\318_008**
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe303.met

Software Version 3.1.7
Run Date: 11/14/2007 4:38:29 PM
Analysis Date: 11/15/2007 7:24:14 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\318_008

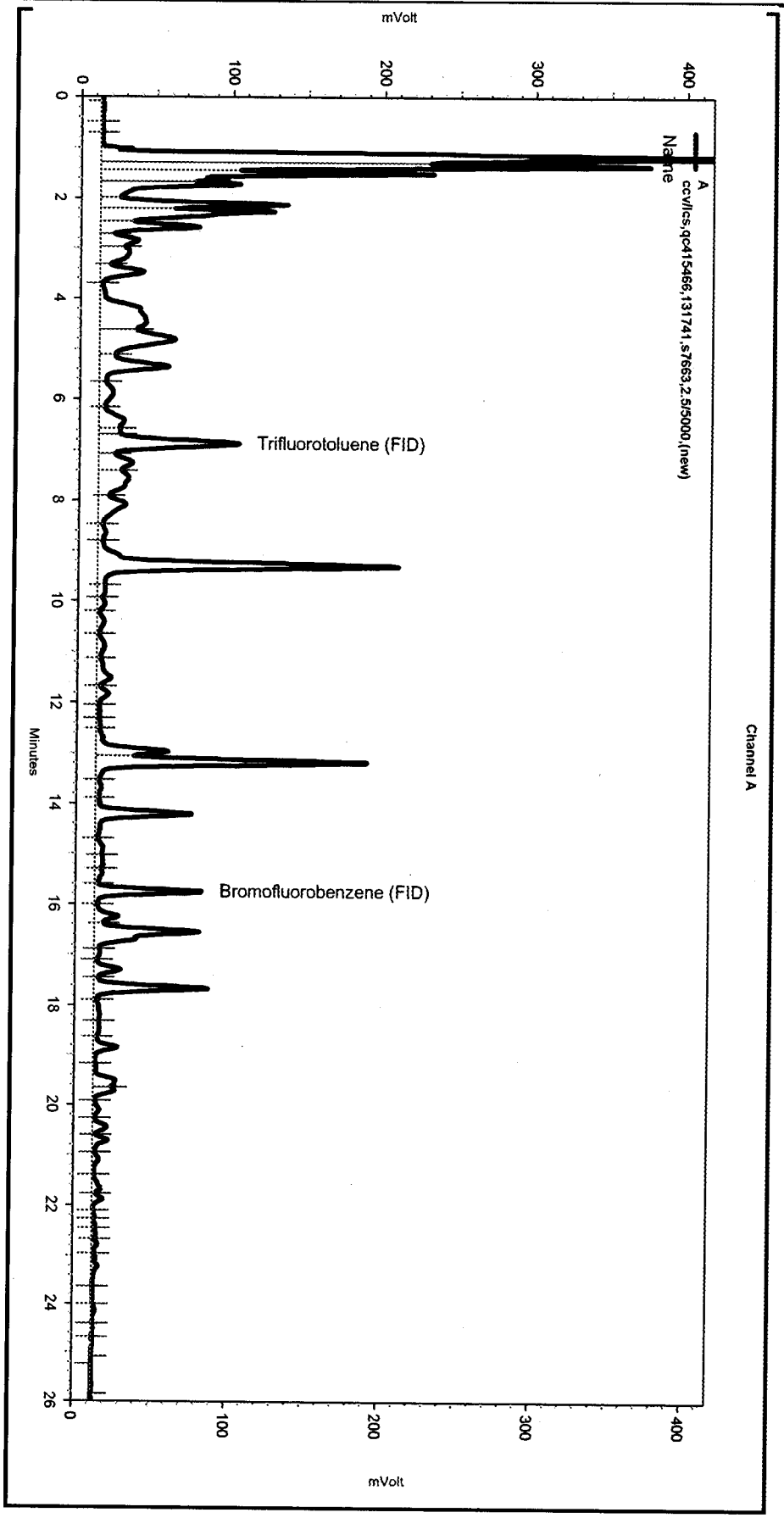
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

0011

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\318.seq
Sample Name: ccv/lcs,qc415466,131741,s7663,2.5/5000,(new)
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\318_005
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe303.met

Software Version 3.1.7
Run Date: 11/14/2007 1:18:41 PM
Analysis Date: 11/15/2007 10:16:30 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\318_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	6.682	0	0

00012

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC415466	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131741
Units:	mg/Kg	Analyzed:	11/14/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.260	105	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	102	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX367[4.0]	Diln Fac:	1.000
MSS Lab ID:	199248-002	Batch#:	131741
Matrix:	Soil	Sampled:	11/14/07
Units:	mg/Kg	Received:	11/14/07
Basis:	dry	Analyzed:	11/14/07

Type: MS
Lab ID: QC415467

Moisture: 9%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.06379	10.99	8.949	81	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	95	65-135

Type: MSD
Lab ID: QC415468

Moisture: 9%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.77	8.156	75	75-125	7	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	96	65-135

RPD= Relative Percent Difference

00014

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199248 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC19
Calnum : 347406559001
Units : ng

Name : GC19 MBTXE/SURR 282
Date : 10-OCT-2007 03:28
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	282_029	347406559029	BTXE_1	10-OCT-2007 03:28	S7260 (1000X), S7273 (5000X)
L2	282_030	347406559030	MBTXE_2	10-OCT-2007 04:05	S7258 (1250X), S7273 (5000X)
L3	282_031	347406559031	MBTXE_3	10-OCT-2007 04:43	S7258 (500X), S7273 (5000X)
L4	282_032	347406559032	MBTXE_4	10-OCT-2007 05:20	S7258 (125X), S7273 (5000X)
L5	282_033	347406559033	MBTXE_5	10-OCT-2007 05:58	S7257 (1000X), S7273 (5000X)
L6	282_034	347406559034	MBTXE_6	10-OCT-2007 06:35	S7257 (500X), S7273 (5000X)
L7	282_035	347406559035	MBTXE_7	10-OCT-2007 07:13	S7257 (250X), S7273 (5000X)
L8	282_036	347406559036	MTBE_7	10-OCT-2007 07:50	S6302 (500X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2652.3	2479.4	2481.7	2108.4	2185.3	2351.6	2173.0	2144.6	AVRG		4.31E-4		2322.0	9	0.995	20	
Bromofluorobenzene (FID)	A	1269.9	1189.7	1229.5	1024.1	1158.7	1238.1	1084.4	1011.2	AVRG		8.69E-4		1150.7	9	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	14	450.0	7	450.0	7	450.0	-9	450.0	-6	450.0	1	450.0	-6	450.0	-8
Bromofluorobenzene (FID)	A	450.0	10	450.0	3	450.0	7	450.0	-11	450.0	1	450.0	8	450.0	-6	450.0	-12

PDM 10/10/07 : Benzene and Ethylbenzene are failing high on Channel C. Will report these analytes on Channel B and confirm on Channel C only.

Analyst: PDM Date: 10/10/07 Reviewer: LH Date: 10/10/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199248 GCVOA Soil: EPA 8015B

Inst : GC19
Calnum : 347436790001
Units : ng

Name : GC19 TVH 303
Date : 30-OCT-2007 17:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	303_008	347436790008	TVH 1	30-OCT-2007 17:35	S7476 (1000X), S7356 (5000X)
L2	303_009	347436790009	TVH 2	30-OCT-2007 18:12	S6986 (1000X), S7356 (5000X)
L3	303_010	347436790010	TVH 3	30-OCT-2007 18:50	S6985 (1000X), S7356 (5000X)
L4	303_011	347436790011	TVH 4	30-OCT-2007 19:27	S6984 (2000X), S7356 (5000X)
L5	303_012	347436790012	TVH 5	30-OCT-2007 20:05	S6984 (1000X), S7356 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1974.9	1870.6	2006.9	1916.2	2050.3	AVRG		5.09E-4		1963.8	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	1	2500	-5	10000	2	25000	-2	50000	4

Analyst: MJM Date: 10/31/07 Reviewer: LH Date: 11/01/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199248 GCVOA Soil
EPA 8015B

Inst : GC19 Name : GC19 TVH 303
Calnum : 347436790001 Cal Date : 30-OCT-2007

ICV 347436790014 (303_014 30-OCT-2007) stds: S7423 (1000X), S7356 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1963.8	1942.0	10000	9889	ng	-1	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 199248 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC415466 IDF : 1.0
Seqnum : 347458568005.4 File : 318_005 Time : 14-NOV-2007 13:18
Standards: S7663 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	347436790001	30-OCT-2007	1963.8	2066.1	5000	5260	ng	5	15	u
Trifluorotoluene (FID)	A	347406559001	10-OCT-2007	2322.0	2377.9	450.0	460.8	ng	2	15	u
Bromofluorobenzene (FID)	A	347406559001	10-OCT-2007	1150.7	1179.0	450.0	461.1	ng	2	15	u

Analyst: MJM Date: 11/15/07 Reviewer: LH Date: 11/15/07

u=use

347458568005.4

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 347458568017 File : 318_017 Time : 14-NOV-2007 23:31
Standards: S7663 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	347436790001	30-OCT-2007	1963.8	1823.1	15000	13930	ng	-7	15	
Trifluorotoluene (FID)	A	347406559001	10-OCT-2007	2322.0	2569.7	450.0	498.0	ng	11	15	
Bromofluorobenzene (FID)	A	347406559001	10-OCT-2007	1150.7	1190.2	450.0	465.5	ng	3	15	

MJM 11/15/07 : PID surrogates are not applicable.

Analyst: MJM Date: 11/15/07 Reviewer: LH Date: 11/15/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 347458568026 File : 318_026 Time : 15-NOV-2007 05:08
Standards: S7663 (1000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	347436790001	30-OCT-2007	1963.8	1970.7	10000	10040	ng	0	15	
Trifluorotoluene (FID)	A	347406559001	10-OCT-2007	2322.0	2631.6	450.0	510.0	ng	13	15	
Bromofluorobenzene (FID)	A	347406559001	10-OCT-2007	1150.7	1205.8	450.0	471.5	ng	5	15	

MJM 11/15/07 : PID surrogates are not applicable.

Analyst: MJM Date: 11/15/07 Reviewer: LH Date: 11/15/07

347458568026

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 347406559

Instrument : GC19
Method : EPA 8015B, EPA 8021B
Begun : 10/09/07 07:59
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	282_001	X	CMARK			10/09/07 07:59	1.0	1 2
002	282_002	X	CCV			10/09/07 08:37	1.0	3 2
003	282_003	X	CCV			10/09/07 09:35	1.0	3 2
004	282_004	X	CCV			10/09/07 10:40	1.0	3 2
005	282_005	CCV/LCS	QC409726	Water	130350	10/09/07 11:38	1.0	3 2
006	282_006	X	IB			10/09/07 12:44	1.0	2
007	282_007	BLANK	QC409725	Water	130350	10/09/07 13:31	1.0	2
008	282_008	X	IB			10/09/07 14:19	1.0	2
009	282_009	SAMPLE	198036-001	Water	130350	10/09/07 14:57	25.0	2
010	282_010	SAMPLE	198036-002	Water	130350	10/09/07 15:34	25.0	2
011	282_011	MSS	198119-008	Water	130350	10/09/07 16:12	1.0	2
012	282_012	MS	QC409727	Water	130350	10/09/07 16:50	1.0	3 2
013	282_013	MSD	QC409728	Water	130350	10/09/07 17:27	1.0	3 2
014	282_014	SAMPLE	198119-002	Water	130350	10/09/07 18:05	1.0	2
015	282_015	SAMPLE	198119-003	Water	130350	10/09/07 18:42	1.0	2
016	282_016	CCV	TVH			10/09/07 19:20	1.0	3 2
017	282_017	CCV	TVH			10/09/07 19:57	1.0	3 2
018	282_018	X	CMARK			10/09/07 20:35	1.0	1 2
019	282_019	SAMPLE	198119-004	Water	130350	10/09/07 21:12	1.0	2
020	282_020	SAMPLE	198119-006	Water	130350	10/09/07 21:50	1.0	2
021	282_021	SAMPLE	198119-007	Water	130350	10/09/07 22:28	1.0	2
022	282_022	SAMPLE	198036-001	Water	130350	10/09/07 23:05	1.0	2
023	282_023	SAMPLE	198036-002	Water	130350	10/09/07 23:43	1.0	2
024	282_024	CCV	TVH			10/10/07 00:20	1.0	3 2
025	282_025	CCV	TVH			10/10/07 00:57	1.0	3 2
026	282_026	X	CMARK			10/10/07 01:35	1.0	1 2
028	282_028	IB	CAL IB			10/10/07 02:50	1.0	2
029	282_029	ICAL	BTXE_1			10/10/07 03:28	1.0	4 2
030	282_030	ICAL	MBTXE_2			10/10/07 04:05	1.0	5 2
031	282_031	ICAL	MBTXE_3			10/10/07 04:43	1.0	5 2
032	282_032	ICAL	MBTXE_4			10/10/07 05:20	1.0	5 2
033	282_033	ICAL	MBTXE_5			10/10/07 05:58	1.0	6 2
034	282_034	ICAL	MBTXE_6			10/10/07 06:35	1.0	6 2
035	282_035	ICAL	MBTXE_7			10/10/07 07:13	1.0	6 2
036	282_036	ICAL	MTBE_7			10/10/07 07:50	1.0	7 2
037	282_037	X	IB			10/10/07 08:28	1.0	2
038	282_038	X	ICV			10/10/07 09:05	1.0	8 2
039	282_039	ICV	MBTXE			10/10/07 09:43	1.0	8 2

Analyst: PDM Date: 10/10/07 Reviewer: _____ Date: _____

Standards used: 1=S6725 2=S7273 3=S7170 4=S7260 5=S7258 6=S7257 7=S6302 8=S7263

00021

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 347436790

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 10/30/07 07:50
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	303_001	X	CMARK			10/30/07 07:50	1.0	1 2	
002	303_002	X	CCV			10/30/07 08:27	1.0	3 2	
003	303_003	CCV	TVH			10/30/07 09:05	1.0	4 2	
004	303_004	X	CCV			10/30/07 09:42	1.0	3 2	
005	303_005	X	CCV			10/30/07 10:34	1.0	5 2	
006	303_006	X	IB			10/30/07 16:19	1.0	2	
007	303_007	IB	CALIB			10/30/07 16:57	1.0	2	
008	303_008	ICAL	TVH 1			10/30/07 17:35	1.0	6 2	
009	303_009	ICAL	TVH 2			10/30/07 18:12	1.0	7 2	
010	303_010	ICAL	TVH 3			10/30/07 18:50	1.0	8 2	
011	303_011	ICAL	TVH 4			10/30/07 19:27	1.0	9 2	
012	303_012	ICAL	TVH 5			10/30/07 20:05	1.0	9 2	
013	303_013	X	IB			10/30/07 20:42	1.0	2	
014	303_014	ICV	TVH			10/30/07 21:20	1.0	4 2	
015	303_015	X	ICV			10/30/07 21:57	1.0	4 2	
016	303_016	X	IB			10/30/07 22:35	1.0	2	
017	303_017	X	CMARKER			10/30/07 23:12	1.0	1 2	
018	303_018	CMARKER				10/31/07 10:41	1.0	1 2	

Analyst: MJM Date: 10/31/07 Reviewer: LH Date: 11/01/07

Standards used: 1=S6725 2=S7356 3=S6970 4=S7423 5=S7564 6=S7476 7=S6986 8=S6985 9=S6984

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 347458568

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 11/14/07 10:48
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	318_001	X	CMARK			11/14/07 10:48	1.0	1 2
002	318_002	X	CCV			11/14/07 11:26	1.0	3 2
003	318_003	X	CCV			11/14/07 12:03	1.0	4 2
004	318_004	X	CCV			11/14/07 12:41	1.0	3 2
005	318_005	CCV/LCS	QC415466	Soil	131741	11/14/07 13:18	1.0	4 2
006	318_006	X	CCV			11/14/07 14:32	1.0	3 2
007	318_007	X	CCV			11/14/07 15:10	1.0	3 2
008	318_008	BLANK	QC415465	Soil	131741	11/14/07 16:38	1.0	2
009	318_009	SAMPLE	199153-015	Soil	131741	11/14/07 18:31	100.0	2
010	318_010	SAMPLE	199153-021	Soil	131741	11/14/07 19:08	20.0	2
011	318_011	SAMPLE	199153-030	Soil	131741	11/14/07 19:46	10.0	2
012	318_012	SAMPLE	199160-002	Soil	131741	11/14/07 20:23	1.0	2
013	318_013	SAMPLE	199160-004	Soil	131741	11/14/07 21:01	1.0	2
014	318_014	MS	QC415467	Soil	131741	11/14/07 21:38	1.0	4 2
015	318_015	MSD	QC415468	Soil	131741	11/14/07 22:16	1.0	4 2
016	318_016	X	MEOHMB			11/14/07 22:53	5.0	2
017	318_017	CCV	TVH			11/14/07 23:31	1.0	4 2
018	318_018	X	CCV			11/15/07 00:08	1.0	4 2
019	318_019	X	CMARK			11/15/07 00:46	1.0	1 2
020	318_020	SAMPLE	199160-005	Soil	131741	11/15/07 01:23	1.0	2
021	318_021	SAMPLE	199160-006	Soil	131741	11/15/07 02:01	1.0	2
022	318_022	SAMPLE	199160-007	Soil	131741	11/15/07 02:38	1.0	2
023	318_023	MSS	199248-002	Soil	131741	11/15/07 03:16	1.0	2
024	318_024	SAMPLE	199075-001	Soil	131741	11/15/07 03:53	1.0	2
025	318_025	SAMPLE	199075-002	Soil	131741	11/15/07 04:31	1.0	2
026	318_026	CCV	TVH			11/15/07 05:08	1.0	4 2
027	318_027	X	CCV			11/15/07 05:46	1.0	4 2
028	318_028	X	CMARK			11/15/07 06:23	1.0	1 2

Analyst: MJM Date: 11/15/07 Reviewer: _____ Date: _____

Standards used: 1=S7569 2=S7356 3=S7564 4=S7663

REPORTING SUMMARY FOR 199248 GCVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
199248-002	GC19	11/15/07 03:16	1.0	+	+	+	
QC415465	GC19	11/14/07 16:38	1.0	+	+	+	
QC415466	GC19	11/14/07 13:18	1.0	+	+	+	
QC415467	GC19	11/14/07 21:38	1.0	+	+	+	
QC415468	GC19	11/14/07 22:16	1.0	+	+	+	

Project TVH/BIKE SOIL PREP BK2583

Continued from Page

SAMPLE ID / CORE ID / DAF	WEIGHTS	COMP(Y)	Na HSO4 (Y)	COMMENTS
1989140-009 COMP	1.03	YES	NO	mdm 11/2/07, comp 1A-4A @ 20.2 per SLM.
1991140-010 ↓	1.05	↓		5A-8A ↓ ↓
1991134-005 A	1.02	NO		
-007	1.02			
-011	1.03			
-013	↓			
MS: ↓	0.99			
MSD: ↓	1.00			
-014	1.01			
-017 ↓	0.99			
1988899-002 A	0.99	↓		mdm 11/2/07
1990179-005 COMP	0.99	Yes		Comp 1B-8B @ 5.0g
MS ↓	1.01	↓		↓
MSD ↓	1.02			
1991134-019 ↓	0.99	NO		
-020 ↓	1.01			
1991388-001 B	5.47			
-002	5.89			
-003 ↓	5.80			
1991333-001 A	1.01 0.98			
-002 ↓	1.02 1.01			
MS: ↓	0.9 1.02			
MSD: ↓	0.98			
-003	1.02			
-004	1.03			
-005	0.99			
-006	0.96			
-007	0.98			
-008	0.99			
-009	0.98			
-010 ↓	1.01	↓		
1991388-001 C	5.48	NO	NO	PdM 11/1/07
-002	5.83			
-003 ↓	5.14	↓	↓	↓
1991460-002 A	1.03	NO	NO	MDM 11/13/07
-004 ↓	0.98	↓	↓	

Continued on Page

Read and Understood By

MDM — Signed

11/13/07 — Date

Signed

Date

SAMPLE ID/CORE ID/DATE	WEIGHT (gs)		COMP (Y/N)	Na2SO4 (Y/N)	COMMENTS
199160-005 A MDM 11/13/07	1.03	1.01	NO	NO	MDM 11/13/07
-006	0.98	0.99			
-007	1.00				
199163-001 C MDM 11/13/07	0.99	5.52			
-002	1.00	5.19			
-003	4.84				
-004 F	4.80				
MS: G	4.88				
MSD: H	5.14				
-005 C	5.41				
-006 C	4.98				
199153-015 B	5.38				
-021 C	4.20				
-030 B	5.43				
199173-001 A	0.99				
-002	1.04				
-003	1.00				
-004	1.03				
MS:	0.98				
MSD:	1.00				
-005 MDM 11/13/07 See MeOH Extract.	1.03				
-006	1.03				
-007	1.01				
-008	1.00				
199079-005 COMP	1.04		YES		aliqs of 199094-2A, -3A, -4A, -5A, -6A, -12A, -18A, -19A
199133-001 A	1.00		NO		COMP 1B-48 @ 5.0g (data for 2nd run)
MS 8:	0.98				
MSD:	1.00				
-011	0.99				
-012	1.02				
-013	0.98				
-014	1.02				
199211-001 A	1.07				
199163-003 D	5.23		NO	NO	PdM 11/14/07
MS 199163-004 L	4.59				
MSD M	5.45				

Continued on Page

Signed _____ Date 11/13/07

Read and Understood By

Signed _____ Date _____

Project TVH | BTXE SOIL PREP BK2583

Continued from Page

SAMPLE ID / CORE ID / BAR	WEIGHT (g)	COMP (Z)	NaHSO4 (Z)	COMMENTS
199133-05A	1.01	NO	NO	MSM 11/14/07
MS ↓	1.00			
MSD ↓	0.98			
-016	0.97			
-017	1.02			
-018	0.97			
-019	1.04			
-020	1.01			
-021	0.99			
-022 ↓	0.97			
199248-002 A	1.03			
MS ↓	1.00			
MSD ↓	1.02			
199075-001 A	~~1.05~~ 1.02			
-002 ↓	~~1.07~~ 1.05	↓	↓	↓
199256-025 comp	1.09	Yes	NO	comp of 17-20A @ 2.0 g. each PdM 4/15/07

Continued on Page

Read and Understood By

Signed Date Signed Date

PROJECT MeOH Extract Log

Notebook No. BK2246

Continued From Page

DATE / ANALYST	SAMPLE ID / CORE ID / BAR	WEIGHT (g)	MeOH (mL)	COMMENTS
11/7/07 MJM	199025 -016 A	5.01	5.0	BJ CR013
	-017	5.00		
	-019			
	-020			
11/08/07 PdM	199013 -001 A	4.97	5.0	BJ CR013
	-002 A	5.05		
	MeOH MB	—		
11/9/07 MJM	MeOH MB	—	5.0	BJ CR013
	199132 -009 COMP	5.03		↓ COMP 9A-8A @ 5.0g each
11/2/07 MJM	MeOH MB	—	5.0	BJ CR013
	199134 -002 A	4.97		
	-003	5.03		
	-004	4.99		
	-006	5.03		
	-008 A	4.97		
	-009	5.00		
	-010	4.99		
	-012	5.02		
	-015	5.01		
	-016	5.01		
	-018	4.98		
	199132 -010 COMP	5.01		comp 1A-4A @ 5g each
	199134 -001 A	4.97		
	-021			
MJM 11/13/07	MeOH MB	—	5.0	BJ CR013
	199160 -001 A	4.96		
	-003	4.97		
MJM 11/14/07	MeOH MB	—	5	BJ CR013
	199153 -015 C	5.05	5.1	
	-021 D	4.68	4.7	
	-030 C	5.05	5.1	
	199173 -005 A	4.99	5.0	↓ Alias of 199094-6A, postdated for 11/13/07

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
[signature]	11/7/07		

TPH-EXTRACTABLES DATA

SOIL

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX367[4.0]	Batch#:	131754
Matrix:	Soil	Sampled:	11/14/07
Units:	mg/Kg	Received:	11/14/07
Diln Fac:	1.000	Prepared:	11/14/07

Type:	SAMPLE	Moisture:	9%
Lab ID:	199248-002	Analyzed:	11/16/07
Basis:	dry	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	0.81 J	1.1	0.18
Fuel Oil C24-C36	5.6	5.5	1.2

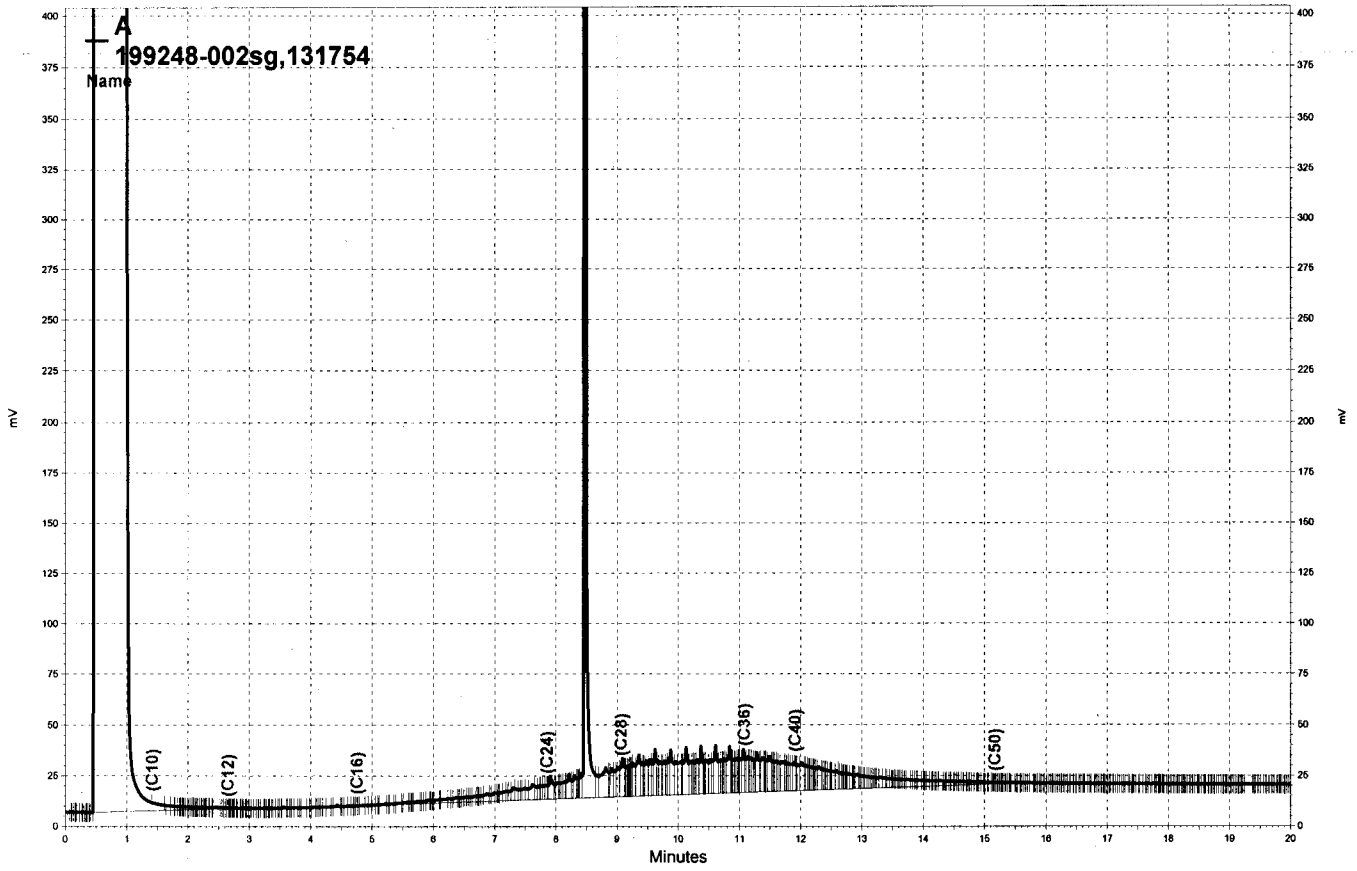
Surrogate	%REC	Limits
Hexacosane	86	65-135

Type:	BLANK	Analyzed:	11/15/07
Lab ID:	QC415530	Cleanup Method:	EPA 3630C
Basis:	as received		

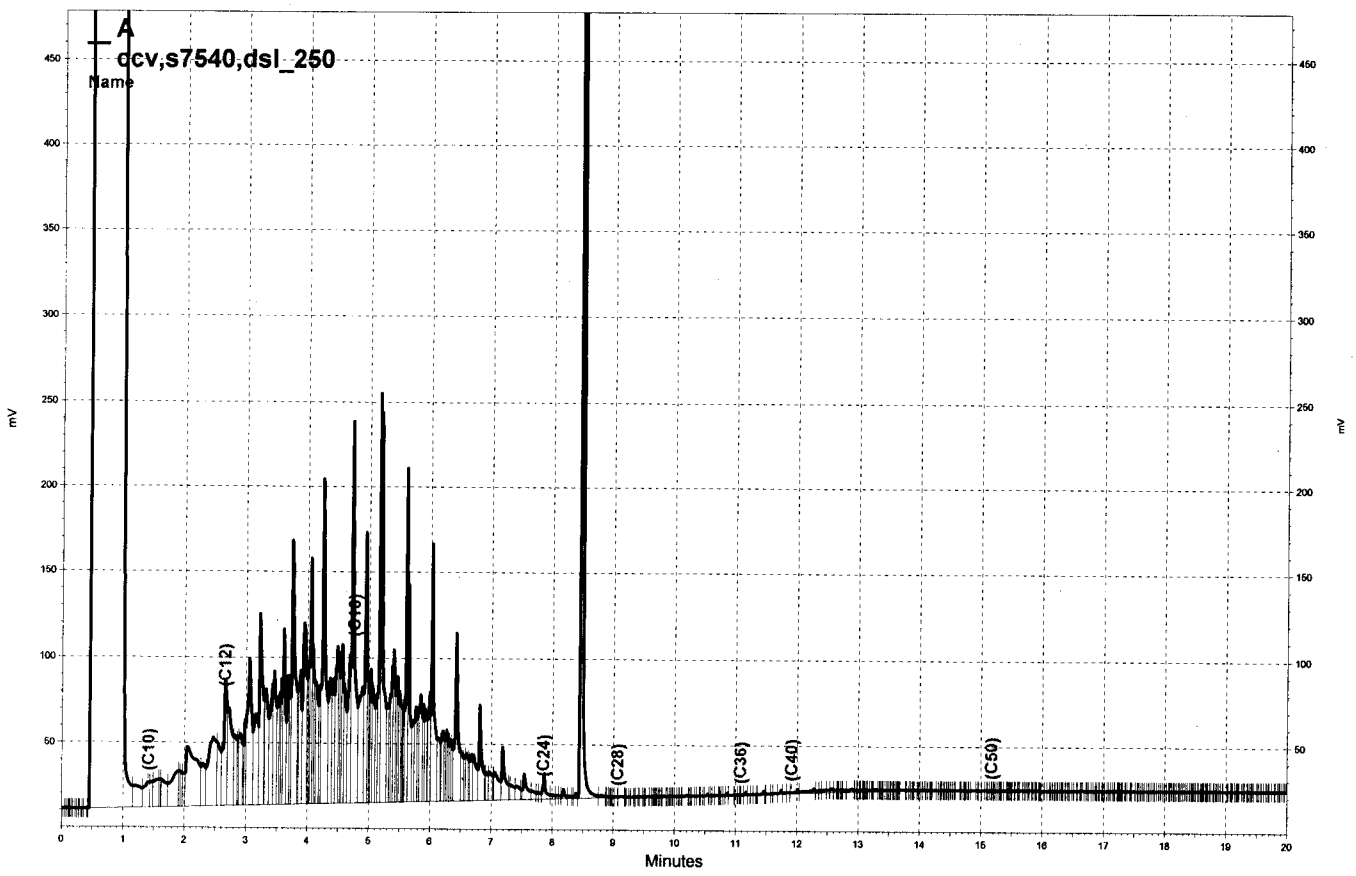
Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.16
Fuel Oil C24-C36	ND	5.0	1.1

Surrogate	%REC	Limits
Hexacosane	96	65-135

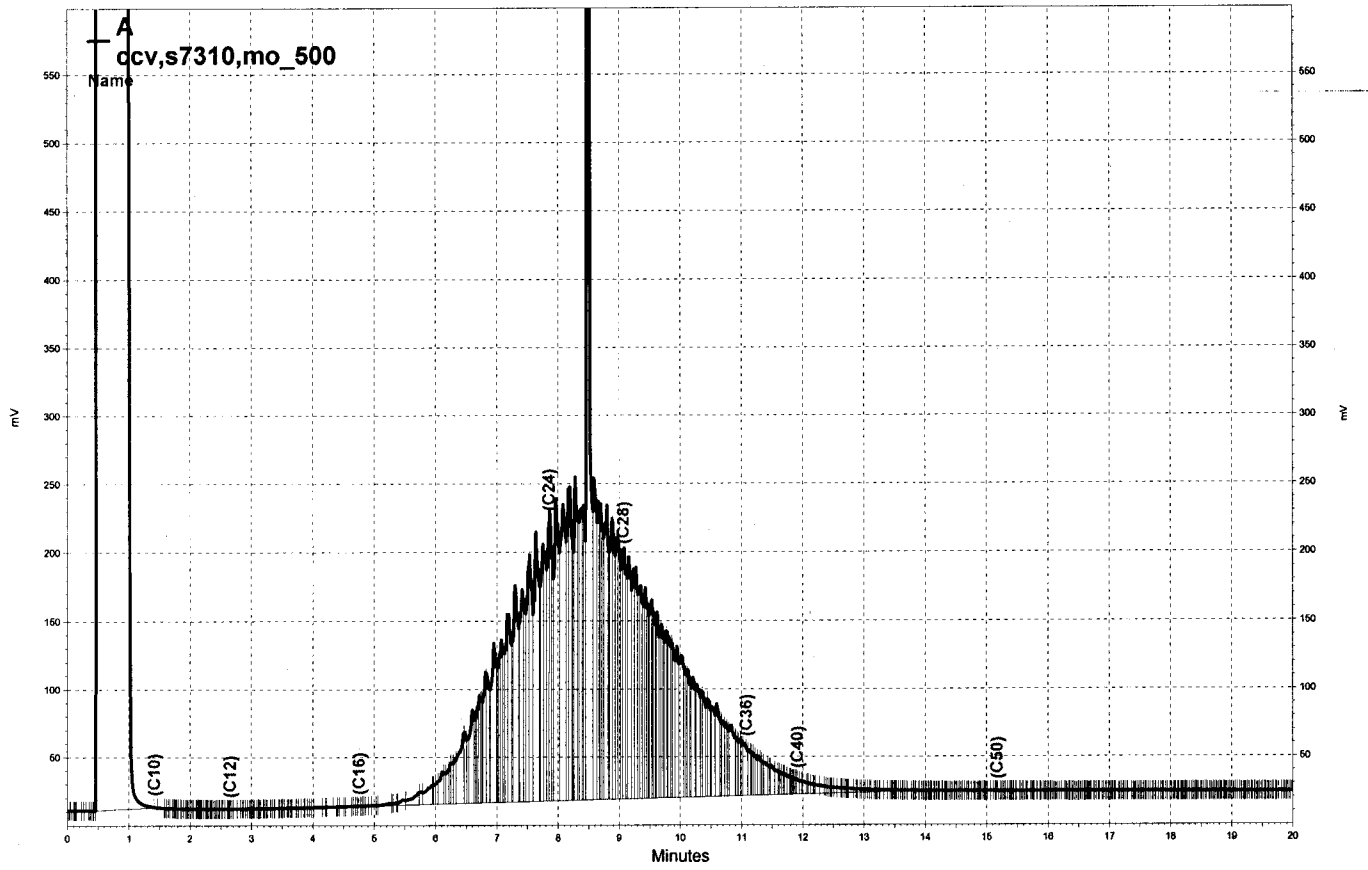
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\318a063, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\318a019, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\318a020, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC415531	Batch#:	131754
Matrix:	Soil	Prepared:	11/14/07
Units:	mg/Kg	Analyzed:	11/15/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.76	45.04	91	65-135

Surrogate	%REC	Limits
Hexacosane	90	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX367[4.0]	Batch#:	131754
MSS Lab ID:	199248-002	Sampled:	11/14/07
Matrix:	Soil	Received:	11/14/07
Units:	mg/Kg	Prepared:	11/14/07
Basis:	dry	Analyzed:	11/15/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC415532
Moisture: 9%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	0.8059	55.03	49.34	88	65-135

Surrogate	%REC	Limits
Hexacosane	92	65-135

Type: MSD
Lab ID: QC415533
Moisture: 9%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	55.03	44.62	80	65-135	10	35

Surrogate	%REC	Limits
Hexacosane	85	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199248 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177330472002
Units : mg/L

Name : MO
Date : 17-AUG-2007 18:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	229a015	177330472015	MO_50	17-AUG-2007 18:23	S6848
L2	229a016	177330472016	MO_250	17-AUG-2007 18:51	S6849
L3	229a017	177330472017	MO_500	17-AUG-2007 19:18	S6850
L4	229a018	177330472018	MO_1000	17-AUG-2007 19:45	S6851
L5	229a019	177330472019	MO_5000	17-AUG-2007 20:13	S6846
L6	229a020	177330472020	MO_7500	17-AUG-2007 20:40	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	50681	53699	55379	55614	54069	53736	AVRG		1.86E-5		53863	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-6	250.0	0	500.0	3	1000	3	5000	0	7500	0

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199248 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177377811001
Units : mg/L

Name : hex 5pt.
Date : 19-SEP-2007 19:51
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	262a024	177377811024	HEX_5	19-SEP-2007 19:51	S7036
L2	262a025	177377811025	HEX_10	19-SEP-2007 20:18	S7037
L3	262a026	177377811026	HEX_25	19-SEP-2007 20:46	S7038
L4	262a027	177377811027	HEX_50	19-SEP-2007 21:13	S7039
L5	262a028	177377811028	HEX_100	19-SEP-2007 21:41	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	90416	88456	87718	89582	89186	AVRG		1.12E-5		89072	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	-2	50.00	1	100.0	0

Analyst: ZA Date: 09/19/07 Reviewer: LH Date: 09/20/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199248 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 177441350001
Units : mg/L

Name : dsl 6pt.
Date : 02-NOV-2007 19:16
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	306a008	177441350008	DSL_10	02-NOV-2007 19:16	S6612
L2	306a009	177441350009	DSL_100	02-NOV-2007 19:44	S6613
L3	306a010	177441350010	DSL_500	02-NOV-2007 20:11	S6614
L4	306a011	177441350011	DSL_1000	02-NOV-2007 20:39	S6615
L5	306a012	177441350012	DSL_5000	02-NOV-2007 21:06	S6611
L6	306a013	177441350013	DSL_7500	02-NOV-2007 21:34	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	68436	66248	61702	61110	73711	65026	AVRG		1.51E-5		66039	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	4	100.0	0	500.0	-7	1000	-7	5000	12	7500	-2

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 177441350001

Name : dsl 6pt.
Cal Date : 02-NOV-2007

ICV 177441350015 (306a015 02-NOV-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	66039	66510	500.0	503.6	mg/L	1	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
Seqnum : 177458826019 File : 318a019 Time : 15-NOV-2007 06:42
Standards: S7540

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	67291	250.0	254.7	mg/L	2	15	
Hexacosane	177377811001	19-SEP-2007	89072	89512	50.00	50.25	mg/L	0	15	

Analyst: JDG Date: 11/15/07 Reviewer: LH Date: 11/15/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177458826020 File : 318a020 Time : 15-NOV-2007 07:10
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	53907	500.0	500.4	mg/L	0	15	
Hexacosane	177377811001	19-SEP-2007	89072	86432	50.00	48.52	mg/L	-3	15	

Analyst: JDG Date: 11/15/07 Reviewer: LH Date: 11/15/07

177458826020

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 177458826030 File : 318a030 Time : 15-NOV-2007 12:27
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	69527	500.0	526.4	mg/L	5	15	
Hexacosane	177377811001	19-SEP-2007	89072	93947	50.00	52.74	mg/L	5	15	

Analyst: JDG Date: 11/15/07 Reviewer: LH Date: 11/15/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177458826031 File : 318a031 Time : 15-NOV-2007 12:55
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	55538	500.0	515.6	mg/L	3	15	
Hexacosane	177377811001	19-SEP-2007	89072	88417	50.00	49.63	mg/L	-1	15	

Analyst: JDG Date: 11/15/07 Reviewer: LH Date: 11/15/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 177458826043 File : 318a043 Time : 15-NOV-2007 18:23
Standards: S6809

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	61282	1000	928.0	mg/L	-7	15	
Hexacosane	177377811001	19-SEP-2007	89072	86068	50.00	48.31	mg/L	-3	15	

Analyst: ATL Date: 11/16/07 Reviewer: LH Date: 11/16/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 177458826058 File : 318a058 Time : 16-NOV-2007 01:26
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	65179	500.0	493.5	mg/L	-1	15	
Hexacosane	177377811001	19-SEP-2007	89072	92200	50.00	51.76	mg/L	4	15	

Analyst: ATL Date: 11/16/07 Reviewer: LH Date: 11/16/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177458826059 File : 318a059 Time : 16-NOV-2007 01:54
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	57032	500.0	529.4	mg/L	6	15	
Hexacosane	177377811001	19-SEP-2007	89072	95174	50.00	53.43	mg/L	7	15	

Analyst: ATL Date: 11/16/07 Reviewer: LH Date: 11/16/07

177458826059

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
Seqnum : 177458826064 File : 318a064 Time : 16-NOV-2007 07:23
Standards: S7540

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	177441350001	02-NOV-2007	66039	64252	250.0	243.2	mg/L	-3	15	
Hexacosane	177377811001	19-SEP-2007	89072	89398	50.00	50.18	mg/L	0	15	

Analyst: ATL Date: 11/16/07 Reviewer: LH Date: 11/16/07

177458826064

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 177458826065 File : 318a065 Time : 16-NOV-2007 07:50
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	177330472002	17-AUG-2007	53863	56766	500.0	527.0	mg/L	5	15	
Hexacosane	177377811001	19-SEP-2007	89072	93354	50.00	52.40	mg/L	5	15	

Analyst: ATL Date: 11/16/07 Reviewer: LH Date: 11/16/07

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177330472

Instrument : GC17A
Method : EPA 8015B

Begun : 08/17/07 11:52
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	229a001	X	PRIMER			08/17/07 11:52	1.0		
002	229a002	X	IB			08/17/07 12:20	1.0		
003	229a003	CMARKER	C10-C50			08/17/07 12:47	1.0	1	
004	229a004	IB	CALIB			08/17/07 13:14	1.0		
005	229a005	ICAL	DSL_10			08/17/07 13:42	1.0	2	
006	229a006	ICAL	DSL_100			08/17/07 14:09	1.0	3	
007	229a007	ICAL	DSL_500			08/17/07 14:37	1.0	4	
008	229a008	ICAL	DSL_1000			08/17/07 15:04	1.0	5	
009	229a009	ICAL	DSL_5000			08/17/07 15:31	1.0	6	
010	229a010	ICAL	DSL_7500			08/17/07 15:59	1.0	7	
011	229a011	IB	CALIB			08/17/07 16:26	1.0		
012	229a012	ICV	DSL_500			08/17/07 16:54	1.0	8	
013	229a013	X	ICV			08/17/07 17:28	1.0	8	
014	229a014	IB	CALIB			08/17/07 17:56	1.0		
015	229a015	ICAL	MO_50			08/17/07 18:23	1.0	9	
016	229a016	ICAL	MO_250			08/17/07 18:51	1.0	10	
017	229a017	ICAL	MO_500			08/17/07 19:18	1.0	11	
018	229a018	ICAL	MO_1000			08/17/07 19:45	1.0	12	
019	229a019	ICAL	MO_5000			08/17/07 20:13	1.0	13	
020	229a020	ICAL	MO_7500			08/17/07 20:40	1.0	14	
021	229a021	IB	CALIB			08/17/07 21:08	1.0		

Analyst: ZA Date: 08/19/07 Reviewer: LH Date: 08/22/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	262a001	X	PRIMER				09/19/07 08:51	1.0		
002	262a002	X	IB				09/19/07 09:18	1.0		
003	262a003	XCMARKER	C10-C50				09/19/07 09:46	1.0	1	
005	262a005	X	IB				09/19/07 11:09	1.0		
006	262a006	XCMARKER	C10-C50				09/19/07 11:36	1.0	1	
007	262a007	CCV	DSL_500				09/19/07 12:04	1.0	2	
008	262a008	CCV	MO_500				09/19/07 12:31	1.0	3	
009	262a009	CCV	OTP_50				09/19/07 12:58	1.0	4	
010	262a010	SAMPLE	197670-001		Soil	129574	09/19/07 13:26	1.0		
011	262a011	SAMPLE	197670-002		Soil	129574	09/19/07 13:54	1.0		
012	262a012	SAMPLE	197670-003		Soil	129574	09/19/07 14:21	1.0		
013	262a013	SAMPLE	197670-004		Soil	129574	09/19/07 14:48	1.0		
014	262a014	SAMPLE	197670-005		Soil	129574	09/19/07 15:16	1.0		
015	262a015	SAMPLE	197670-006		Soil	129574	09/19/07 15:44	1.0		
016	262a016	SAMPLE	197670-007		Soil	129574	09/19/07 16:11	1.0		
017	262a017	SAMPLE	197670-008		Soil	129574	09/19/07 16:38	1.0		
018	262a018	SAMPLE	197670-009		Soil	129574	09/19/07 17:06	1.0		
019	262a019	SAMPLE	197670-010		Soil	129574	09/19/07 17:33	1.0		
020	262a020	CCV	DSL_1000				09/19/07 18:00	1.0	5	
021	262a021	CCV	MO_500				09/19/07 18:28	1.0	3	
022	262a022	CCV	DSL_1000				09/19/07 18:55	1.0	5	
023	262a023	IB	CALIB				09/19/07 19:23	1.0		
024	262a024	ICAL	HEX_5				09/19/07 19:51	1.0	6	
025	262a025	ICAL	HEX_10				09/19/07 20:18	1.0	7	
026	262a026	ICAL	HEX_25				09/19/07 20:46	1.0	8	
027	262a027	ICAL	HEX_50				09/19/07 21:13	1.0	9	
028	262a028	ICAL	HEX_100				09/19/07 21:41	1.0	10	
029	262a029	X	IB				09/19/07 22:08	1.0		
030	262a030	X	CMARKER				09/19/07 22:36	1.0	1	
031	262a031	CCV	DSL_250				09/19/07 23:03	1.0	11	
032	262a032	CCV	MO_500				09/19/07 23:31	1.0	3	
033	262a033	X	IB				09/20/07 00:02	1.0		
034	262a034	X	TANKCHK				09/20/07 00:29	1.0		
035	262a035	X	TANKCHK				09/20/07 00:56	1.0		
036	262a036	SAMPLE	197624-001		Water	129615	09/20/07 01:24	1.0		
037	262a037	XCMARKER	C10-C50				09/20/07 01:51	1.0	1	
038	262a038	CCV	DSL_500				09/20/07 02:18	1.0	2	
039	262a039	CCV	MO_500				09/20/07 02:46	1.0	3	
040	262a040	X	CCV				09/20/07 03:13	1.0	2	
041	262a041	X	CCV				09/20/07 03:41	1.0	3	
042	262a042	X	IB				09/20/07 08:18	1.0		
043	262a043	X	IB				09/20/07 08:45	1.0		
044	262a044	SAMPLE	197668-024	S	Soil	129593	09/20/07 09:13	10.0		
045	262a045	LCS	QC406929	S	Soil	129661	09/20/07 09:40	1.0		
046	262a046	BLANK	QC406928	S	Soil	129661	09/20/07 10:08	1.0		
047	262a047	SAMPLE	197557-001	S	Soil	129661	09/20/07 10:36	1.0		2:BUNKC:12-40=6200
048	262a048	SAMPLE	197557-019	S	Soil	129661	09/20/07 11:07	1.0		
049	262a049	X	IB				09/20/07 11:34	1.0		
050	262a050	SAMPLE	197557-015	S	Soil	129661	09/20/07 12:02	1.0		
051	262a051	CCV	DSL_1000				09/20/07 12:29	1.0	5	
052	262a052	X					09/20/07 12:57	1.0	3	
053	262a053	CCV	MO_500				09/20/07 13:26	1.0	3	

00058

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177377811

Instrument : GC17A
Method : EPA 8015B

Begun : 09/19/07 08:51
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
054	262a054	SAMPLE	197557-017	S	Soil	129532	09/20/07 14:25	1.0		
055	262a055	CCV	DSL_250				09/20/07 14:55	1.0	11	
056	262a056	CCV	MO_500				09/20/07 15:23	1.0	3	
057	262a057	CCV	DSL_250				09/20/07 15:53	1.0	11	
058	262a058	X	IB				09/21/07 01:38	1.0		
059	262a059	X	CMARKER				09/21/07 02:06	1.0	1	
060	262a060	IB	CALIB				09/21/07 02:33	1.0		
061	262a061	ICAL	DSL_10				09/21/07 03:01	1.0	12	
062	262a062	ICAL	DSL_100				09/21/07 03:28	1.0	13	
063	262a063	ICAL	DSL_500				09/21/07 03:55	1.0	14	
064	262a064	ICAL	DSL_1000				09/21/07 04:23	1.0	15	
065	262a065	ICAL	DSL_5000				09/21/07 04:51	1.0	16	
066	262a066	ICAL	DSL_7500				09/21/07 05:18	1.0	17	
067	262a067	IB	CALIB				09/21/07 05:46	1.0		
068	262a068	ICV	DSL_500				09/21/07 06:13	1.0	18	
069	262a069	X	ICV				09/21/07 06:41	1.0	19	

Standards used: 1=S6952 2=S6808 3=S6790 4=S6922 5=S6809 6=S7036 7=S7037 8=S7038 9=S7039 10=S7040 11=S6807 12=S6612
13=S6613 14=S6614 15=S6615 16=S6611 17=S6616 18=S6617 19=S56617

00051

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177441350

Instrument : GC17A
Method : EPA 8015B

Begun : 11/02/07 11:50
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	306a001	X	IB			11/02/07 11:50	1.0	
002	306a002	X	IB			11/02/07 12:17	1.0	
003	306a003	CMARKER	C8-C50			11/02/07 12:45	1.0	1
004	306a004	CCV	DSL_500			11/02/07 13:12	1.0	2
005	306a005	CCV	MO_500			11/02/07 13:40	1.0	3
006	306a006	CCV	DSL_500			11/02/07 14:58	1.0	2
007	306a007	IB	CALIB			11/02/07 17:33	1.0	
008	306a008	ICAL	DSL_10			11/02/07 19:16	1.0	4
009	306a009	ICAL	DSL_100			11/02/07 19:44	1.0	5
010	306a010	ICAL	DSL_500			11/02/07 20:11	1.0	6
011	306a011	ICAL	DSL_1000			11/02/07 20:39	1.0	7
012	306a012	ICAL	DSL_5000			11/02/07 21:06	1.0	8
013	306a013	ICAL	DSL_7500			11/02/07 21:34	1.0	9
014	306a014	IB	CALIB			11/02/07 22:01	1.0	
015	306a015	ICV	DSL_500			11/02/07 22:29	1.0	10
016	306a016	X	ICV			11/02/07 22:56	1.0	10
017	306a017	IB	CALIB			11/02/07 23:24	1.0	

Analyst: ZA Date: 11/05/07 Reviewer: LH Date: 11/05/07

Standards used: 1=S6952 2=S7541 3=S7310 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177458826

Instrument : GC17A
Method : EPA 8015B

Begun : 11/14/07 15:06
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	318a001	X	IB				11/14/07 15:06	1.0		
002	318a002	CMARKER	C10-C50				11/14/07 15:33	1.0	1	
003	318a003	CCV	DSL_500				11/14/07 16:00	1.0	2	
004	318a004	CCV	MO_500				11/14/07 16:27	1.0	3	
005	318a005	X	IB				11/15/07 00:17	1.0		
006	318a006	SAMPLE	199165-004	S	Water	131667	11/15/07 00:44	1.0		
007	318a007	SAMPLE	199165-003	S	Water	131667	11/15/07 01:11	1.0		
008	318a008	SAMPLE	199165-002	S	Water	131667	11/15/07 01:39	1.0		
009	318a009	SAMPLE	199165-001	S	Water	131667	11/15/07 02:07	1.0		
010	318a010	SAMPLE	199133-017		Soil	131698	11/15/07 02:35	1.0		
011	318a011	X	IB				11/15/07 03:02	1.0		
012	318a012	SAMPLE	199162-006		Water	131667	11/15/07 03:30	1.0		3:BUNKC:12-40=16000
013	318a013	SAMPLE	199162-005		Water	131667	11/15/07 03:57	1.0		6:BUNKC:12-40=22000
014	318a014	SAMPLE	199162-007		Water	131667	11/15/07 04:25	1.0		11:BUNKC:12-40=28000
015	318a015	SAMPLE	199162-008		Water	131667	11/15/07 04:52	1.0		2:BUNKC:12-40=14000
016	318a016	X	IB				11/15/07 05:20	1.0		
017	318a017	SAMPLE	199133-018		Soil	131698	11/15/07 05:47	1.0		
018	318a018	X	CMARKER				11/15/07 06:15	1.0	1	
019	318a019	CCV	DSL_250				11/15/07 06:42	1.0	4	
020	318a020	CCV	MO_500				11/15/07 07:10	1.0	3	
021	318a021	SAMPLE	199153-016		Soil	131678	11/15/07 07:42	50.0		
022	318a022	SAMPLE	199153-020		Soil	131678	11/15/07 08:09	50.0		
023	318a023	SAMPLE	199153-029		Soil	131678	11/15/07 08:37	20.0		
024	318a024	SAMPLE	199153-030		Soil	131678	11/15/07 09:04	50.0		
025	318a025	SAMPLE	199162-007		Water	131667	11/15/07 09:32	10.0		
026	318a026	SAMPLE	199133-007		Soil	131678	11/15/07 09:59	1.0		
027	318a027	BLANK	QC415530	S	Soil	131754	11/15/07 10:49	1.0		
028	318a028	LCS	QC415531	S	Soil	131754	11/15/07 11:17	1.0		
029	318a029	SAMPLE	199256-021	S	Soil	131754	11/15/07 11:44	1.0		
030	318a030	CCV	DSL_500				11/15/07 12:27	1.0	2	
031	318a031	CCV	MO_500				11/15/07 12:55	1.0	3	
032	318a032	SAMPLE	199187-003		Soil	131698	11/15/07 13:22	1.0		
033	318a033	SAMPLE	199187-002		Soil	131698	11/15/07 13:49	1.0		
034	318a034	SAMPLE	199133-019		Soil	131698	11/15/07 14:16	1.0		
035	318a035	SAMPLE	199133-016		Soil	131698	11/15/07 14:44	1.0		
036	318a036	SAMPLE	199133-014		Soil	131698	11/15/07 15:11	1.0		
037	318a037	SAMPLE	199133-020		Soil	131698	11/15/07 15:39	1.0		
038	318a038	X	IB				11/15/07 16:06	1.0		
039	318a039	SAMPLE	199133-011		Soil	131698	11/15/07 16:33	1.0		
040	318a040	SAMPLE	199133-022		Soil	131698	11/15/07 17:01	1.0		
041	318a041	SAMPLE	199133-012		Soil	131698	11/15/07 17:28	1.0		
042	318a042	SAMPLE	199133-013		Soil	131698	11/15/07 17:55	1.0		
043	318a043	CCV	DSL_1000				11/15/07 18:23	1.0	5	
044	318a044	CCV	MO_500				11/15/07 18:50	1.0	3	
045	318a045	BLANK	QC415530		Soil	131754	11/15/07 19:30	1.0		
046	318a046	SAMPLE	199193-001		Soil	131754	11/15/07 19:57	1.0		
047	318a047	MS	QC415532	S	Soil	131754	11/15/07 20:24	1.0		
048	318a048	MSD	QC415533	S	Soil	131754	11/15/07 20:52	1.0		
049	318a049	SAMPLE	199202-001	S	Soil	131754	11/15/07 21:19	20.0		
050	318a050	X	IB				11/15/07 21:46	1.0		
051	318a051	SAMPLE	199235-001		Soil	131754	11/15/07 22:14	1.0		
052	318a052	SAMPLE	199236-002		Soil	131754	11/15/07 22:41	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177458826

Instrument : GC17A
Method : EPA 8015B

Begun : 11/14/07 15:06
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	318a053	SAMPLE	199235-002		Soil	131754	11/15/07 23:09	1.0		
054	318a054	SAMPLE	199202-002	S	Soil	131754	11/15/07 23:36	20.0		
055	318a055	X	IB				11/16/07 00:04	1.0		
056	318a056	SAMPLE	199187-007		Soil	131754	11/16/07 00:31	1.0		
057	318a057	X	CMARKER				11/16/07 00:59	1.0	1	
058	318a058	CCV	DSL_500				11/16/07 01:26	1.0	2	
059	318a059	CCV	MO_500				11/16/07 01:54	1.0	3	
060	318a060	X	CCV				11/16/07 02:21	1.0	2	
061	318a061	X	CCV				11/16/07 02:49	1.0	3	
062	318a062	X	IB				11/16/07 06:28	1.0		
063	318a063	MSS	199248-002	S	Soil	131754	11/16/07 06:55	1.0		
064	318a064	CCV	DSL_250				11/16/07 07:23	1.0	4	
065	318a065	CCV	MO_500				11/16/07 07:50	1.0	3	

Standards used: 1=S6952 2=S7541 3=S7310 4=S7540 5=S6809

REPORTING SUMMARY FOR 199248 GCSV Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
199248-002	GC17A	11/16/07 06:55	1.0	+	+	+	
QC415530	GC17A	11/15/07 10:49	1.0	+	+	+	
QC415530	GC17A	11/15/07 19:30	1.0				
QC415531	GC17A	11/15/07 11:17	1.0	+		+	
QC415532	GC17A	11/15/07 20:24	1.0	+		+	
QC415533	GC17A	11/15/07 20:52	1.0	+		+	

SAMPLE PREPARATION SUMMARY

Batch # : 131754
Started By : JJB
Method : SHAKER TABLE
Spike #1 ID : S7552
Prep Date : 14-NOV-2007
SOP Version : TEH1_rv9
Spike #2 ID : S7578
Analysis : TEH
Finished By : KML
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
199157-001		Soil	50.05	10	1	0.1998		1			3630C	TEHM	would not conc. further
199157-002		Soil	50.03	5	1	0.09994		1			3630C	TEHM	
199187-004		Soil	50	5	1	0.1000		1				TEHM	
199187-006		Soil	50.29	5	1	0.09942		1				TEHM	
199187-007		Soil	50.2	5	1	0.0996		1				TEHM	
199187-008		Soil	50.19	5	1	0.09962		1				TEHM	
199193-001		Soil	50.18	5	1	0.09964		1				TEHM	
199202-001		Soil	50.15	5	1	0.0997		1			3630C	TEHM	
199202-002		Soil	50.1	5	1	0.0998		1			3630C	TEHM	
199235-001		Soil	50.23	5	1	0.09954		1				TEHM	
199235-002		Soil	50.08	5	1	0.09984		1				TEHM	
199235-003		Soil	50.1	5	1	0.0998		1				TEHM	
199236-001		Soil	50.1	5	1	0.0998		1				TEHM	
199236-002		Soil	50.13	5	1	0.09974		1				TEHM	
199248-002		Soil	50.07	5	1	0.09986		1			3630C	TEHM	mss
199254-001		Soil	50.2	5	1	0.0996		1			3630C	TEHM	
199254-002		Soil	50.04	5	1	0.09992		1			3630C	TEHM	
199256-021		Soil	50.1	5	1	0.0998		1			3630C	TEH	
199256-022		Soil	50.07	5	1	0.09986		1			3630C	TEH	
199256-025		Soil	50.11	5	1	0.09978		1			3630C	TEH	
QC415530	BLANK	Soil	50.08	5	1	0.09984		1			3630C		
QC415531	LCS	Soil	50.24	5	1	0.09952		1	1		3630C		
QC415532	MS	Soil	49.92	5	1	0.1002		1	1		3630C		
QC415533	MSD	Soil	49.92	5	1	0.1002		1	1		3630C		

Analyst: ATL Date: 11/16/07 Reviewer: LH Date: 11/16/07

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 67

LIMS Batch No: 131754
LIMS Analysis TEH
Date Extracted: 11/14/07

Extraction Method:
☒ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	199157-001 A	50.05	10.0	X	would not conc. further
	2	50.03	5.0	↓	
	199187-004 A	50.06			
	6	50.29			
5	7	50.26			
	8	50.19			
	199193-001 A	50.18			
	199202-001 A	50.15		X	
	2	50.16		↓	
10	199235-001	50.23			
	2	50.08			
	3	50.16			
	199236-001	50.16			
	2	50.13			
15	199248-002B	50.07		X	MSS
	199254-601 A	50.20			
	2	50.04			
	199256-021	50.10			
	22	50.07			
20	25	50.11			
	MB QC 411530	50.08			
	LCS 1	50.24			
	MS 2	49.92			
	MSD 3	49.92	↓	↓	
					JSB 11/16/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47158737	JSB 11/14/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47075134	↓
1.0 mL of Surrogate solution was added to all samples	37552C	
1.0 mL of Matrix Spiking solution was added to all spikes	37578C	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM47177	
Acetone	EM47196	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	20:40	↓
taken off shaker table at:	22:40	JSB 11/14/07
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47073734	KML 11/15/07
Concentrated to volumes as noted above	✓	↓
Relinquished to TEH Department	✓	

11/15/07
Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/16/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: KML
Cleanup Date: 11/15/07

Benchbook # 2611
Page 21

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
199157-001	131754	1.0	1.0	
↓ -002	↓	↓	↓	
199202-001				
↓ -002				
199248-002				MSS
199254-001				
↓ -002				
199256-021				
↓ -022				
↓ -025				
MB QC415530				
LCS ↓ 531				
MS ↓ 532				
MSD ↓ 533	↓	↓	↓	
				JM 11/16/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ___ g columns	NA	KML 11/15/07
☑ Extracts were cleaned up using 1.0 g cartridges	SP9293	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	EM47177	
Concentrated to volumes as noted above	✓	

11/15/07
Extraction Chemist / Date

Continued from page ___
Continued on page 1

11/16/07
Reviewed by / Date

Project Soil Aliquat BK 2588 151

Continued from Page

SAMPLE ID	WEIGHT(S)	ANALYSIS	BATCH #	COMMENTS
199193-001A	50.18	TEHM		
			ECB	11/14/07
199205-001A	30.05	8270		
↓ -002 ↓	30.28	↓		
			ECB	11/14/07
199089-011A	30.02	SIM		
			ECB	11/14/07
199103-001A	30.14	PCB		
-002	30.04	↓		
-003	30.19			
-004	30.12			
-005	30.00			
-006	30.01			
-007	30.18			
↓ -008 ↓	30.09			
			ECB	11/14/07
198829-001G	29.93	~~8100~~ 8270 RFW 11/14/07	MSS	
MB	30.11		EM4715737	
LCS	30.02		↓	
MS	29.96		198829-001G	
MSD	29.98	↓	↓	
			RFW	11/14/07
199248-002B	50.07	TEHM 13754		
199254-001A	50.20	↓ ↓		
↓ 2 ↓	50.04			
199256-021	50.10		COMP 001,002,003,004,005,CACLL	
22	50.07		COMP 006,006,007,008	
↓ 25	50.11		COMP 017,018,019,020	
MB	50.08		EM4715737	
LCS	50.24		↓	
MS	49.92		199248-002B	
MSD	49.92		↓	
			JJB	11/14/07

Continued on Page

Read and Understood By

Signed Date Signed Date

146 Project Soil Aliquot BK2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199202-001	50.15	TEHM	131754	
-002	50.10			
-003	50.11			
-004	50.09			
-005	50.09			
-006	50.08			
-007	50.16			
-008	50.25			
-009	50.14			
-010	50.05			MSS
-011	50.01			
-012	50.22			
-013	50.15			
-014	50.06			
-015	50.02			
-016	50.15			
-017	50.19			
-018	50.01			
-019	50.18			
-020	50.03			
-021	50.39			
-022	50.21			
-023	50.22			
-024	50.06			
MB	50.22			EM47158737
LCS	50.35			↓
MS	50.07			199202-010A
MSD	50.18			↓

EEB 11/3/07

Continued on Page

Read and Understood By

Signed Date Signed Date

00058

150 Project Soil Aliquot BK2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199239-004	30.04	PCB		COMP -001,002,003 ALL LETTER A @ 10g. each
↓ -010	30.05			MSS ↓ 004,005,006,007,008,009 ALL LETTER A @ 20g each
MB	30.08		EMH7158737	
LCS	30.08		↓	
MS	30.15		199239-010	
MSD	30.12		↓	
			EEB 11/14/07	
199235-001	50.23	TEHM	13154	aliased 199068-011A
↓ -002	50.08	↓	↓	-013A
↓ -003	50.10	↓	↓	↓ -020A
				EEB 11/14/07
199235-001	30.23	SIM		
				EEB 11/14/07
199236-001	50.10	TEHM	13154	aliased 199008-014 A dry -018 A
↓ -002	50.13	↓	↓	↓
				EEB 11/14/07
199209-001A	30.01	PCB		
↓ -002	30.05	↓		
↓ -003 ↓	30.25	↓		
				EEB 11/14/07
199146-039A	~~TEHM~~ 50.19 EEB 11/14	TEHM		EEB 11/14
199190-001A	50.16	TEHM		
↓ -002	50.25	↓		
↓ -003 ↓	50.10	↓		
				EEB 11/14/07
199206-001A	50.03	TEHM		
↓ -002	50.28	↓		
↓ -003 ↓	50.36	↓		
				EEB 11/14/07
198829-001A	30.17	~~SIM~~		
↓ -002	30.07	↓		
↓ -003	30.00	↓		
↓ -004 ↓	30.10	↓		
				EEB 11/14/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
199146-009A	29.70	8270-SIM		
011	30.48			
015	29.60			
021	30.05			
023	29.66			
026	29.77			
027	30.39			
030	29.51			
034	29.73			
036	29.92			
				MJD 11/12/07
199173-001A	50.43	TEHM		
002	50.48			
003	50.10			
004	49.63			
005	50.22			
006	49.78			
007	50.45			
008	50.38			
199153-001A	50.41	TEHM		
002	49.98			
003	49.65			
004	49.68			
				MJD 11/12/07
199157-001A	50.05	TEHM	131754	
-002	50.03			
				ELB 11/13/07
199157-001A	30.06	PCB		
-002	30.03			
				ELB 11/13/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project 2011 Milepost

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199168-009	50.08	TEHM		-001, 002, 003, 004 Comp ALL LETTER A @ 20g each
-010	50.23			-005, 006, 007, 008 Comp. ALL LETTER A @ 20g each
			EeB 11/13/07	
199168-009	30.66	PCB		-001, 002, 003, 004 ALL Comp LETTER A @ 20g each
-010	30.02			-005, 006, 007, 008. all Comp letter A @ 20g. each
			EeB 11/13/07	
199169-001 A	30.00	PCB		
-002	30.22			
-003	30.06			
-004	30.06			
-005	30.32			
-006	30.02			
			EeB 11/13/07	
199153-015 A	50.19	TEHM		
-016	50.14			
-018	50.37			
-020	50.04			
-021	50.27			
-025	50.27			
-029	50.18			
-030	50.20			
-034	50.00			
			EeB 11/13/07	
199187-002 A	50.03	TEHM		
-003	50.12			
-004	50.00		131754	
-006	50.29			
-007	50.20			
-008	50.19			
			EeB 11/13/07	
199188-001 A	30.36	PCB		ALIASED- 199176-001A
			EeB 11/13/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquat BK 2588 151

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENT
199193-001A	50.18	TEHM	131754	
				ECB 11/14/07
199205-001A	30.05	8270		
↓ -002↓	30.28	↓		
				ECB 11/14/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd

Volatile Organics
Soil

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX367[4.0]	Diln Fac:	0.8929
Lab ID:	199248-002	Batch#:	131706
Matrix:	Soil	Sampled:	11/14/07
Units:	ug/Kg	Received:	11/14/07
Basis:	dry	Analyzed:	11/14/07

Moisture: 9%

Analyte	Result	RL	MDL
Freon 12	ND	9.8	0.9
Chloromethane	ND	9.8	0.6
Vinyl Chloride	ND	9.8	0.5
Bromomethane	ND	9.8	0.8
Chloroethane	ND	9.8	0.8
Trichlorofluoromethane	ND	4.9	0.9
Acetone	1.0 J	25	0.8
Freon 113	ND	4.9	2.0
1,1-Dichloroethene	ND	4.9	0.3
Methylene Chloride	2.7 J	20	0.5
Carbon Disulfide	ND	4.9	0.5
MTBE	ND	4.9	0.7
trans-1,2-Dichloroethene	ND	4.9	0.6
Vinyl Acetate	ND	49	0.7
1,1-Dichloroethane	ND	4.9	0.8
2-Butanone	ND	9.8	1.0
cis-1,2-Dichloroethene	ND	4.9	0.8
2,2-Dichloropropane	ND	4.9	0.7
Chloroform	ND	4.9	0.5
Bromochloromethane	ND	4.9	0.7
1,1,1-Trichloroethane	ND	4.9	0.4
1,1-Dichloropropene	ND	4.9	0.6
Carbon Tetrachloride	ND	4.9	0.9
1,2-Dichloroethane	ND	4.9	0.7
Benzene	ND	4.9	0.7
Trichloroethene	ND	4.9	0.8
1,2-Dichloropropane	ND	4.9	0.9
Bromodichloromethane	ND	4.9	0.8
Dibromomethane	ND	4.9	0.7
4-Methyl-2-Pentanone	ND	9.8	0.6
cis-1,3-Dichloropropene	ND	4.9	0.6
Toluene	ND	4.9	0.7
trans-1,3-Dichloropropene	ND	4.9	0.7
1,1,2-Trichloroethane	ND	4.9	0.7
2-Hexanone	ND	9.8	0.8
1,3-Dichloropropane	ND	4.9	0.6
Tetrachloroethene	ND	4.9	0.7
Dibromochloromethane	ND	4.9	0.7
1,2-Dibromoethane	ND	4.9	0.7
Chlorobenzene	ND	4.9	0.6
1,1,1,2-Tetrachloroethane	ND	4.9	0.6
Ethylbenzene	ND	4.9	0.5
m,p-Xylenes	ND	4.9	1.0
o-Xylene	ND	4.9	0.6
Styrene	ND	4.9	0.7
Bromoform	ND	4.9	0.6
Isopropylbenzene	ND	4.9	0.5
1,1,2,2-Tetrachloroethane	ND	4.9	0.7
1,2,3-Trichloropropane	ND	4.9	0.7
Propylbenzene	ND	4.9	0.6

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX367[4.0]	Diln Fac:	0.8929
Lab ID:	199248-002	Batch#:	131706
Matrix:	Soil	Sampled:	11/14/07
Units:	ug/Kg	Received:	11/14/07
Basis:	dry	Analyzed:	11/14/07

Analyte	Result	RL	MDL
Bromobenzene	ND	4.9	0.9
1,3,5-Trimethylbenzene	ND	4.9	0.7
2-Chlorotoluene	ND	4.9	0.7
4-Chlorotoluene	ND	4.9	0.9
tert-Butylbenzene	ND	4.9	0.6
1,2,4-Trimethylbenzene	ND	4.9	0.7
sec-Butylbenzene	ND	4.9	0.7
para-Isopropyl Toluene	ND	4.9	0.7
1,3-Dichlorobenzene	ND	4.9	0.6
1,4-Dichlorobenzene	ND	4.9	0.7
n-Butylbenzene	ND	4.9	0.6
1,2-Dichlorobenzene	ND	4.9	0.9
1,2-Dibromo-3-Chloropropane	ND	4.9	0.9
1,2,4-Trichlorobenzene	ND	4.9	0.8
Hexachlorobutadiene	ND	4.9	0.6
Naphthalene	ND	4.9	0.5
1,2,3-Trichlorobenzene	ND	4.9	0.6

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	112	79-136
Toluene-d8	105	80-120
Bromofluorobenzene	95	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC415310	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131706
Units:	ug/Kg	Analyzed:	11/14/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.9
Chloromethane	ND	10	0.6
Vinyl Chloride	ND	10	0.5
Bromomethane	ND	10	0.8
Chloroethane	ND	10	0.8
Trichlorofluoromethane	ND	5.0	0.9
Acetone	ND	25	0.8
Freon 113	ND	5.0	2.0
1,1-Dichloroethene	ND	5.0	0.3
Methylene Chloride	0.6 J	20	0.5
Carbon Disulfide	ND	5.0	0.5
MTBE	ND	5.0	0.7
trans-1,2-Dichloroethene	ND	5.0	0.6
Vinyl Acetate	ND	50	0.7
1,1-Dichloroethane	ND	5.0	0.8
2-Butanone	ND	10	1.0
cis-1,2-Dichloroethene	ND	5.0	0.8
2,2-Dichloropropane	ND	5.0	0.7
Chloroform	ND	5.0	0.5
Bromochloromethane	ND	5.0	0.7
1,1,1-Trichloroethane	ND	5.0	0.4
1,1-Dichloropropene	ND	5.0	0.6
Carbon Tetrachloride	ND	5.0	0.9
1,2-Dichloroethane	ND	5.0	0.7
Benzene	ND	5.0	0.7
Trichloroethene	ND	5.0	0.8
1,2-Dichloropropane	ND	5.0	0.9
Bromodichloromethane	ND	5.0	0.8
Dibromomethane	ND	5.0	0.7
4-Methyl-2-Pentanone	ND	10	0.6
cis-1,3-Dichloropropene	ND	5.0	0.7
Toluene	ND	5.0	0.7
trans-1,3-Dichloropropene	ND	5.0	0.7
1,1,2-Trichloroethane	ND	5.0	0.7
2-Hexanone	ND	10	0.8
1,3-Dichloropropane	ND	5.0	0.6
Tetrachloroethene	ND	5.0	0.7
Dibromochloromethane	ND	5.0	0.7
1,2-Dibromoethane	ND	5.0	0.7
Chlorobenzene	ND	5.0	0.7
1,1,1,2-Tetrachloroethane	ND	5.0	0.6
Ethylbenzene	ND	5.0	0.5
m,p-Xylenes	ND	5.0	1.0
o-Xylene	ND	5.0	0.6
Styrene	ND	5.0	0.7
Bromoform	ND	5.0	0.6
Isopropylbenzene	ND	5.0	0.5
1,1,2,2-Tetrachloroethane	ND	5.0	0.7
1,2,3-Trichloropropane	ND	5.0	0.7
Propylbenzene	ND	5.0	0.6
Bromobenzene	ND	5.0	0.9
1,3,5-Trimethylbenzene	ND	5.0	0.7

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC415310	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131706
Units:	ug/Kg	Analyzed:	11/14/07

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.7
4-Chlorotoluene	ND	5.0	0.9
tert-Butylbenzene	ND	5.0	0.7
1,2,4-Trimethylbenzene	ND	5.0	0.7
sec-Butylbenzene	ND	5.0	0.8
para-Isopropyl Toluene	ND	5.0	0.7
1,3-Dichlorobenzene	ND	5.0	0.6
1,4-Dichlorobenzene	ND	5.0	0.7
n-Butylbenzene	ND	5.0	0.6
1,2-Dichlorobenzene	ND	5.0	0.9
1,2-Dibromo-3-Chloropropane	ND	5.0	0.9
1,2,4-Trichlorobenzene	ND	5.0	0.8
Hexachlorobutadiene	ND	5.0	0.6
Naphthalene	ND	5.0	0.5
1,2,3-Trichlorobenzene	ND	5.0	0.6

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	108	79-136
Toluene-d8	106	80-120
Bromofluorobenzene	91	80-122

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

6.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	131706
Basis:	as received	Analyzed:	11/14/07

Type: BS Lab ID: QC415308

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	29.49	118	74-131
Benzene	25.00	27.18	109	77-121
Trichloroethene	25.00	29.49	118	77-121
Toluene	25.00	28.52	114	79-122
Chlorobenzene	25.00	27.59	110	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	102	79-136
Toluene-d8	104	80-120
Bromofluorobenzene	83	80-122

Type: BSD Lab ID: QC415309

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	28.08	112	74-131	5	20
Benzene	25.00	26.62	106	77-121	2	20
Trichloroethene	25.00	28.69	115	77-121	3	20
Toluene	25.00	27.88	112	79-122	2	20
Chlorobenzene	25.00	25.54	102	80-120	8	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	105	79-136
Toluene-d8	107	80-120
Bromofluorobenzene	90	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX367[4.0]	Diln Fac:	0.8929
MSS Lab ID:	199248-002	Batch#:	131706
Matrix:	Soil	Sampled:	11/14/07
Units:	ug/Kg	Received:	11/14/07
Basis:	dry	Analyzed:	11/14/07

Type: MS
Lab ID: QC415448

Moisture: 9%

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.3192	49.06	57.68	118	61-145
Benzene	<0.6993	49.06	47.84	98	57-123
Trichloroethene	<0.7815	49.06	53.12	108	52-141
Toluene	<0.6725	49.06	48.15	98	53-126
Chlorobenzene	<0.6392	49.06	44.00	90	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	116	79-136
Toluene-d8	106	80-120
Bromofluorobenzene	93	80-122

Type: MSD
Lab ID: QC415449

Moisture: 9%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.06	53.86	110	61-145	7	26
Benzene	49.06	46.44	95	57-123	3	25
Trichloroethene	49.06	51.50	105	52-141	3	26
Toluene	49.06	48.11	98	53-126	0	27
Chlorobenzene	49.06	43.41	88	49-121	1	27

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	114	79-136
Toluene-d8	109	80-120
Bromofluorobenzene	93	80-122

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 199248 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457437048008 File : fju08 Time : 30-OCT-2007 15:16

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	52320	21.50	
75	30% - 60% of mass 95	110757	45.51	
95		243349		
96	5% - 9% of mass 95	15946	6.55	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	193258	79.42	
175	5% - 9% of mass 174	13225	6.84	
176	> 95% and < 101% of mass 174	190720	98.69	
177	5% - 9% of mass 176	12349	6.47	

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

457437048008

CURTIS & TOMPKINS BFB TUNE FOR 199248 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 457458384002 File : fke02 Time : 14-NOV-2007 08:22

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	58938	20.87	
75	30% - 60% of mass 95	124866	44.21	
95		282453		
96	5% - 9% of mass 95	18786	6.65	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	237077	83.94	
175	5% - 9% of mass 174	16205	6.84	
176	> 95% and < 101% of mass 174	229888	96.97	
177	5% - 9% of mass 176	15498	6.74	

Analyst: BO Date: 11/15/07 Reviewer: LW Date: 11/15/07

457458384002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199248 MSVOA Soil: EPA 8260B

Inst : MSVOA06
Calnum : 457437048001
Units : ug/L

Name : 826GOX6S
Date : 30-OCT-2007 17:19
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fju12	457437048012	2.5PPB	30-OCT-2007 17:19	S7424 (20000X), S7425 (20000X), S7444 (1000X)
L2	fju13	457437048013	5PPB	30-OCT-2007 17:54	S7424 (10000X), S7425 (10000X), S7444 (1000X)
L3	fju14	457437048014	10PPB	30-OCT-2007 18:30	S7424 (5000X), S7425 (5000X), S7444 (1000X)
L4	fju15	457437048015	20PPB	30-OCT-2007 19:05	S7417 (25000X), S7531 (25000X), S7444 (1000X)
L5	fju16	457437048016	50PPB	30-OCT-2007 19:40	S7417 (10000X), S7531 (10000X), S7444 (1000X)
L6	fju17	457437048017	60PPB	30-OCT-2007 20:15	S7417 (8333X), S7531 (8333X), S7444 (1000X)
L7	fju18	457437048018	75PPB	30-OCT-2007 20:50	S7417 (6667X), S7531 (6667X), S7444 (1000X)
L8	fju19	457437048019	100PPB	30-OCT-2007 21:24	S7417 (5000X), S7531 (5000X), S7444 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.4830	0.4763	0.6396	0.6148	0.6037	0.5614	0.5948	AVRG		1.76164		0.5677	11	15	0.05	0.99	
Chloromethane		1.0497m	1.0167	1.1664	1.1042	1.1075	1.0371	1.0601	AVRG		0.92819		1.0774	5	15	0.10	0.99	
Vinyl Chloride	0.8684	0.8172m	0.8472	0.9767	0.8846	0.8936	0.8188	0.8468	AVRG		1.15052		0.8692	6	15	0.05	0.99	
Bromomethane		0.3422	0.3644m	0.4110	0.4119	0.3909	0.3733	0.3636	AVRG		2.63430		0.3796	7	15	0.05	0.99	
Chloroethane		0.4065	0.4302	0.4576	0.4553	0.4270	0.4021	0.3960	AVRG		2.35323		0.4249	6	15	0.05	0.99	
Trichlorofluoromethane		0.8152	0.8533	0.8814	0.8326	0.7977	0.7540	0.7788	AVRG		1.22528		0.8161	5	15	0.05	0.99	
Acetone		0.5303	0.5540	0.5463	0.5070	0.5053	0.4567	0.4542	AVRG		1.96967		0.5077	8	15	0.05	0.99	
Freon 113		0.7002	0.7460	0.6944	0.7148	0.6754	0.6175	0.6634	AVRG		1.45479		0.6874	6	15	0.05	0.99	
1,1-Dichloroethene		0.6157	0.5977	0.6015	0.5950	0.5703	0.5404	0.5637	AVRG		1.71387		0.5835	4	15	0.05	0.99	
Methylene Chloride		0.8883	0.8954	0.9431	0.9103	0.8865	0.8255	0.8518	AVRG		1.12887		0.8858	4	15	0.05	0.99	
Carbon Disulfide		2.6591	2.6660	2.7167	2.6304	2.5601	2.4176	2.5177	AVRG		0.38530		2.5954	4	15	0.05	0.99	
MTBE		2.3086	2.3206	2.3917	2.3601	2.2913	2.1479	2.1355	AVRG		0.43872		2.2794	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.7472	0.7390	0.7644	0.7262	0.7191	0.6728	0.6873	AVRG		1.38450		0.7223	5	15	0.05	0.99	
Vinyl Acetate			1.5845	2.2139	2.2794	2.2786	2.1623	2.2310	AVRG		0.47060		2.1249	13	15	0.05	0.99	
1,1-Dichloroethane		1.5711	1.5994	1.5767	1.5487	1.5144	1.3821	1.4856	AVRG		0.65555		1.5254	5	15	0.10	0.99	
2-Butanone		0.7169	0.7479	0.7739	0.7934	0.8115	0.7333	0.7416	AVRG		1.31616		0.7598	5	15	0.05	0.99	
2,2-Dichloropropane		0.7163	0.7552	0.7746	0.7941	0.7886	0.7263	0.7596	AVRG		1.31709		0.7592	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.8293	0.8436	0.8401	0.8352	0.8182	0.7721	0.7864	AVRG		1.22275		0.8178	3	15	0.05	0.99	
Chloroform		1.2733	1.3685	1.3765	1.3489	1.3364	1.2465	1.2646	AVRG		0.75965		1.3164	4	15	0.05	0.99	
Bromochloromethane		0.4063	0.4316	0.4550	0.4413	0.4406	0.4016	0.4129	AVRG		2.34167		0.4270	5	15	0.05	0.99	
1,1,1-Trichloroethane		0.8343	0.8667	0.8453	0.8387	0.8241	0.7683	0.7810	AVRG		1.21562		0.8226	4	15	0.05	0.99	
1,1-Dichloropropene		0.5708	0.5720	0.5553	0.5629	0.5504	0.5199	0.5531	AVRG		1.80211		0.5549	3	15	0.05	0.99	
Carbon Tetrachloride		0.3972	0.4218	0.4075	0.4125	0.3799	0.3636	0.3800	AVRG		2.53386		0.3947	5	15	0.05	0.99	
1,2-Dichloroethane		0.6256	0.6198	0.6291	0.6110	0.5948	0.5729	0.5736	AVRG		1.65605		0.6038	4	15	0.05	0.99	
Benzene		1.7882	1.7616	1.8074	1.7299	1.6851	1.6329	1.6795	AVRG		0.57925		1.7264	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.3990	0.4115	0.4096	0.4132	0.3968	0.3850	0.3947	AVRG		2.49122		0.4014	3	15	0.05	0.99	
1,2-Dichloropropane		0.5647	0.5474	0.5677	0.5523	0.5456	0.5291	0.5437	AVRG		1.81789		0.5501	2	15	0.05	0.99	
Bromodichloromethane		0.5672	0.6019	0.6099	0.5940	0.5904	0.5748	0.5763	AVRG		1.70127		0.5878	3	15	0.05	0.99	
Dibromomethane		0.3032	0.3240	0.3399	0.3399	0.3277	0.3199	0.3185	AVRG		3.07943		0.3247	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.7375	0.7813	0.8383	0.8693	0.8720	0.8145	0.8274	AVRG		1.21944		0.8201	6	15	0.05	0.99	
cis-1,3-Dichloropropene		0.7252	0.7271	0.7560	0.7614	0.7459	0.7062	0.7173	AVRG		1.36212		0.7342	3	15	0.05	0.99	
Toluene		0.9248	0.9871	0.9806	0.9824	0.9295	0.9023	0.8973	AVRG		1.05995		0.9434	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6209	0.6049	0.6451	0.6635	0.6385	0.6239	0.6202	AVRG		1.58477		0.6310	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.2430	0.2460	0.2533	0.2531	0.2435	0.2316	0.2327	AVRG		4.10962		0.2433	4	15	0.05	0.99	
2-Hexanone		0.6570	0.6903	0.7262	0.7392	0.7704	0.7133	0.7105	AVRG		1.39809		0.7153	5	15	0.05	0.99	
1,3-Dichloropropane		0.7761	0.8336	0.8214	0.8173	0.8253	0.7998	0.7916	AVRG		1.23566		0.8093	3	15	0.05	0.99	
Tetrachloroethene		0.4088	0.4323	0.4005	0.4122	0.4108	0.3848	0.4078	AVRG		2.45000		0.4082	3	15	0.05	0.99	
Dibromochloromethane		0.5298	0.5770	0.5724	0.5636	0.5530	0.5344	0.5320	AVRG		1.81240		0.5518	4	15	0.05	0.99	
1,2-Dibromoethane		0.4676	0.4577	0.4738	0.4812	0.4606	0.4551	0.4407	AVRG		2.16265		0.4624	3	15	0.05	0.99	
Chlorobenzene		1.1842	1.2279	1.2123	1.1973	1.1838	1.1045	1.1419	AVRG		0.84828		1.1788	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4408	0.4566	0.4557	0.4523	0.4479	0.4203	0.4228	AVRG		2.26065		0.4424	3	15	0.05	0.99	
Ethylbenzene		2.1001	2.1188	2.0598	1.9904	1.9468	1.7853	1.8375	AVRG		0.50582		1.9770	7	15	0.05	0.99	
m,p-Xylenes	0.7567	0.6981	0.7692	0.7191	0.7241	0.6927	0.6329	0.6319	AVRG		1.42233		0.7031	7	15	0.05	0.99	
o-Xylene		0.7164	0.7450	0.7296	0.7048	0.7170	0.6712	0.6731	AVRG		1.41213		0.7082	4	15	0.05	0.99	
Styrene		1.2580	1.2844	1.2626	1.2740	1.2803	1.2027	1.2082	AVRG		0.79816		1.2529	3	15	0.05	0.99	
Bromoform		0.3755	0.3925	0.4085	0.4147	0.4173	0.3909	0.3955	AVRG		2.50467		0.3993	4	15	0.10	0.99	
Isopropylbenzene		3.6837	3.6725	3.5008	3.7215	3.4584	3.2041	3.1385	AVRG		0.28713		3.4828	7	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.5792	1.6224	1.6354	1.7029	1.6236	1.4975	1.4587	AVRG		0.62951		1.5885	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.2588	1.2442	1.2898	1.2922	1.2425	1.1690	1.1043	AVRG		0.81388		1.2287	6	15	0.05	0.99	
Propylbenzene		4.9115	5.0135	4.8150	5.0145	4.5567	4.1631	4.1555	AVRG		0.21453		4.6614	8	15	0.05	0.99	
Bromobenzene		1.0312	1.0445	1.0950	1.1208	1.0479	0.9769	0.9994	AVRG		0.95684		1.0451	5	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.1579	3.1119	3.1128	3.1543	2.9069	2.7464	2.6411	AVRG		0.33603		2.9759	7	15	0.05	0.99	
2-Chlorotoluene		3.1351	3.1677	3.2980	3.3854	3.0913	2.9162	2.9002	AVRG		0.31973		3.1277	6	15	0.05	0.99	
4-Chlorotoluene		2.9854	3.1038	3.0701	3.1115	2.8395	2.7446	2.7764	AVRG		0.33929		2.9473	5	15	0.05	0.99	
tert-Butylbenzene		2.5297	2.6666	2.4707	2.5724	2.3962	2.1431	2.1653	AVRG		0.41313		2.4206	8	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.0450	3.1108	2.9700	3.2522	3.0054	2.7419	2.7052	AVRG		0.33604		2.9758	7	15	0.05	0.99	
sec-Butylbenzene		4.1444	4.1923	4.0275	4.2048	4.0096	3.5874	3.4813	AVRG		0.25319		3.9496	7	15	0.05	0.99	
para-Isopropyl Toluene		3.0770	3.2743	3.1112	3.2607	2.9427	2.7309	2.7471	AVRG		0.33106		3.0206	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8580	1.9433	1.9394	1.9239	1.8003	1.7044	1.7313	AVRG		0.54261		1.8429	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.8669	1.9023	1.9552	1.9611	1.8581	1.7359	1.7700	AVRG		0.53642		1.8642	5	15	0.05	0.99	
n-Butylbenzene		3.0304	3.1487	3.1099	3.3922	3.1023	2.8202	2.9589	AVRG		0.32464		3.0804	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.7815	1.8405	1.8277	1.8937	1.7893	1.6519	1.7151	AVRG		0.56001		1.7857	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.3052	0.3069	0.3048	0.2996	0.3048	0.2771	0.2848	AVRG		3.36013		0.2976	4	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9320	1.0170	1.0469	1.1221	1.0247	0.9792	1.0472	AVRG		0.97642		1.0241	6	15	0.05	0.99	
Hexachlorobutadiene		0.5596	0.5720	0.5712	0.5913	0.5715	0.5225	0.5526	AVRG		1.77633		0.5630	4	15	0.05	0.99	
Naphthalene		2.3188	2.5958	2.7777	2.9366	2.9060	2.7110	2.9022	AVRG		0.36557		2.7354	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		0.9408	1.0233	1.0105	1.0832	1.0244	0.9815	1.0502	AVRG		0.98401		1.0163	5	15	0.05	0.99	
Dibromofluoromethane					0.6494				AVRG		1.53999		0.6494	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.3563				AVRG		2.80644		0.3563	0	15	0.05	0.99	
Trifluorotoluene	0.5565	0.5669	0.5779	0.5843	0.5822	0.5648	0.5358	0.5703	AVRG		1.76260		0.5673	3	15	0.05	0.99	
Toluene-d8					1.0288				AVRG		0.97202		1.0288	0	15	0.05	0.99	
Bromofluorobenzene					1.1047				AVRG		0.90518		1.1047	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-15	10.00	-16	20.00	13	50.00	8	60.00	6	75.00	-1	100.0	5
Chloromethane			5.000	-3	10.00	-6	20.00	8	50.00	2	60.00	3	75.00	-4	100.0	-2
Vinyl Chloride	2.500	0	5.000	-6	10.00	-3	20.00	12	50.00	2	60.00	3	75.00	-6	100.0	-3
Bromomethane			5.000	-10	10.00	-4	20.00	8	50.00	9	60.00	3	75.00	-2	100.0	-4
Chloroethane			5.000	-4	10.00	1	20.00	8	50.00	7	60.00	0	75.00	-5	100.0	-7
Trichlorofluoromethane			5.000	0	10.00	5	20.00	8	50.00	2	60.00	-2	75.00	-8	100.0	-5
Acetone			5.000	4	10.00	9	20.00	8	50.00	0	60.00	0	75.00	-10	100.0	-11
Freon 113			5.000	2	10.00	9	20.00	1	50.00	4	60.00	-2	75.00	-10	100.0	-3
1,1-Dichloroethene			5.000	6	10.00	2	20.00	3	50.00	2	60.00	-2	75.00	-7	100.0	-3
Methylene Chloride			5.000	0	10.00	1	20.00	6	50.00	3	60.00	0	75.00	-7	100.0	-4
Carbon Disulfide			5.000	2	10.00	3	20.00	5	50.00	1	60.00	-1	75.00	-7	100.0	-3
MTBE			5.000	1	10.00	2	20.00	5	50.00	4	60.00	1	75.00	-6	100.0	-6
trans-1,2-Dichloroethene			5.000	3	10.00	2	20.00	6	50.00	1	60.00	0	75.00	-7	100.0	-5
Vinyl Acetate					10.00	-25	20.00	4	50.00	7	60.00	7	75.00	2	100.0	5
1,1-Dichloroethane			5.000	3	10.00	5	20.00	3	50.00	2	60.00	-1	75.00	-9	100.0	-3
2-Butanone			5.000	-6	10.00	-2	20.00	2	50.00	4	60.00	7	75.00	-3	100.0	-2
2,2-Dichloropropane			5.000	-6	10.00	-1	20.00	2	50.00	5	60.00	4	75.00	-4	100.0	0
cis-1,2-Dichloroethene			5.000	1	10.00	3	20.00	3	50.00	2	60.00	0	75.00	-6	100.0	-4
Chloroform			5.000	-3	10.00	4	20.00	5	50.00	2	60.00	2	75.00	-5	100.0	-4
Bromochloromethane			5.000	-5	10.00	1	20.00	7	50.00	3	60.00	3	75.00	-6	100.0	-3
1,1,1-Trichloroethane			5.000	1	10.00	5	20.00	3	50.00	2	60.00	0	75.00	-7	100.0	-5
1,1-Dichloropropene			5.000	3	10.00	3	20.00	0	50.00	1	60.00	-1	75.00	-6	100.0	0
Carbon Tetrachloride			5.000	1	10.00	7	20.00	3	50.00	5	60.00	-4	75.00	-8	100.0	-4
1,2-Dichloroethane			5.000	4	10.00	3	20.00	4	50.00	1	60.00	-1	75.00	-5	100.0	-5
Benzene			5.000	4	10.00	2	20.00	5	50.00	0	60.00	-2	75.00	-5	100.0	-3
Trichloroethene			5.000	-1	10.00	3	20.00	2	50.00	3	60.00	-1	75.00	-4	100.0	-2
1,2-Dichloropropane			5.000	3	10.00	0	20.00	3	50.00	0	60.00	-1	75.00	-4	100.0	-1
Bromodichloromethane			5.000	-4	10.00	2	20.00	4	50.00	1	60.00	0	75.00	-2	100.0	-2
Dibromomethane			5.000	-7	10.00	0	20.00	5	50.00	5	60.00	1	75.00	-1	100.0	-2
4-Methyl-2-Pentanone			5.000	-10	10.00	-5	20.00	2	50.00	6	60.00	6	75.00	-1	100.0	1
cis-1,3-Dichloropropene			5.000	-1	10.00	-1	20.00	3	50.00	4	60.00	2	75.00	-4	100.0	-2
Toluene			5.000	-2	10.00	5	20.00	4	50.00	4	60.00	-1	75.00	-4	100.0	-5
trans-1,3-Dichloropropene			5.000	-2	10.00	-4	20.00	2	50.00	5	60.00	1	75.00	-1	100.0	-2
1,1,2-Trichloroethane			5.000	0	10.00	1	20.00	4	50.00	4	60.00	0	75.00	-5	100.0	-4
2-Hexanone			5.000	-8	10.00	-3	20.00	2	50.00	3	60.00	8	75.00	0	100.0	-1
1,3-Dichloropropane			5.000	-4	10.00	3	20.00	1	50.00	1	60.00	2	75.00	-1	100.0	-2
Tetrachloroethene			5.000	0	10.00	6	20.00	-2	50.00	1	60.00	1	75.00	-6	100.0	0
Dibromochloromethane			5.000	-4	10.00	5	20.00	4	50.00	2	60.00	0	75.00	-3	100.0	-4
1,2-Dibromoethane			5.000	1	10.00	-1	20.00	2	50.00	4	60.00	0	75.00	-2	100.0	-5
Chlorobenzene			5.000	0	10.00	4	20.00	3	50.00	2	60.00	0	75.00	-6	100.0	-3
1,1,1,2-Tetrachloroethane			5.000	0	10.00	3	20.00	3	50.00	2	60.00	1	75.00	-5	100.0	-4
Ethylbenzene			5.000	6	10.00	7	20.00	4	50.00	1	60.00	-2	75.00	-10	100.0	-7

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	8	10.00	-1	20.00	9	40.00	2	100.0	3	120.0	-1	150.0	-10	200.0	-10
o-Xylene			5.000	1	10.00	5	20.00	3	50.00	0	60.00	1	75.00	-5	100.0	-5
Styrene			5.000	0	10.00	3	20.00	1	50.00	2	60.00	2	75.00	-4	100.0	-4
Bromoform			5.000	-6	10.00	-2	20.00	2	50.00	4	60.00	5	75.00	-2	100.0	-1
Isopropylbenzene			5.000	6	10.00	5	20.00	1	50.00	7	60.00	-1	75.00	-8	100.0	-10
1,1,2,2-Tetrachloroethane			5.000	-1	10.00	2	20.00	3	50.00	7	60.00	2	75.00	-6	100.0	-8
1,2,3-Trichloropropane			5.000	2	10.00	1	20.00	5	50.00	5	60.00	1	75.00	-5	100.0	-10
Propylbenzene			5.000	5	10.00	8	20.00	3	50.00	8	60.00	-2	75.00	-11	100.0	-11
Bromobenzene			5.000	-1	10.00	0	20.00	5	50.00	7	60.00	0	75.00	-7	100.0	-4
1,3,5-Trimethylbenzene			5.000	6	10.00	5	20.00	5	50.00	6	60.00	-2	75.00	-8	100.0	-11
2-Chlorotoluene			5.000	0	10.00	1	20.00	5	50.00	8	60.00	-1	75.00	-7	100.0	-7
4-Chlorotoluene			5.000	1	10.00	5	20.00	4	50.00	6	60.00	-4	75.00	-7	100.0	-6
tert-Butylbenzene			5.000	5	10.00	10	20.00	2	50.00	6	60.00	-1	75.00	-11	100.0	-11
1,2,4-Trimethylbenzene			5.000	2	10.00	5	20.00	0	50.00	9	60.00	1	75.00	-8	100.0	-9
sec-Butylbenzene			5.000	5	10.00	6	20.00	2	50.00	6	60.00	2	75.00	-9	100.0	-12
para-Isopropyl Toluene			5.000	2	10.00	8	20.00	3	50.00	8	60.00	-3	75.00	-10	100.0	-9
1,3-Dichlorobenzene			5.000	1	10.00	5	20.00	5	50.00	4	60.00	-2	75.00	-8	100.0	-6
1,4-Dichlorobenzene			5.000	0	10.00	2	20.00	5	50.00	5	60.00	0	75.00	-7	100.0	-5
n-Butylbenzene			5.000	-2	10.00	2	20.00	1	50.00	10	60.00	1	75.00	-8	100.0	-4
1,2-Dichlorobenzene			5.000	0	10.00	3	20.00	2	50.00	6	60.00	0	75.00	-7	100.0	-4
1,2-Dibromo-3-Chloropropane			5.000	3	10.00	3	20.00	2	50.00	1	60.00	2	75.00	-7	100.0	-4
1,2,4-Trichlorobenzene			5.000	-9	10.00	-1	20.00	2	50.00	10	60.00	0	75.00	-4	100.0	2
Hexachlorobutadiene			5.000	-1	10.00	2	20.00	1	50.00	5	60.00	2	75.00	-7	100.0	-2
Naphthalene			5.000	-15	10.00	-5	20.00	2	50.00	7	60.00	6	75.00	-1	100.0	6
1,2,3-Trichlorobenzene			5.000	-7	10.00	1	20.00	-1	50.00	7	60.00	1	75.00	-3	100.0	3
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene	2.500	-2	5.000	0	10.00	2	20.00	3	50.00	3	60.00	0	75.00	-6	100.0	1
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

457437048001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199248 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Name : 826GOX6S
Calnum : 457437048001 Cal Date : 30-OCT-2007 Type : SOIL

ICV 457437048020 (fju20 30-OCT-2007) stds: S7415 (10000X), S7444 (1000X)
ICV 457437048021 (fju21 30-OCT-2007) stds: S7480 (10000X), S7498 (10000X), S7444 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	457437048020	0.5677	0.6702	25.00	29.52	ug/L	18	20	
Chloromethane	457437048020	1.0774	1.1481	25.00	26.64	ug/L	7	20	
Vinyl Chloride	457437048020	0.8692	0.8598	25.00	24.73	ug/L	-1	20	
Bromomethane	457437048020	0.3796	0.3719	25.00	24.49	ug/L	-2	20	
Chloroethane	457437048020	0.4249	0.4128	25.00	24.28	ug/L	-3	20	
Trichlorofluoromethane	457437048020	0.8161	0.7975	25.00	24.43	ug/L	-2	20	
Acetone	457437048021	0.5077	0.4678	25.00	23.04	ug/L	-8	30	
Freon 113	457437048021	0.6874	0.5766	25.00	20.97	ug/L	-16	20	
1,1-Dichloroethene	457437048021	0.5835	0.5637	25.00	24.15	ug/L	-3	20	
Methylene Chloride	457437048021	0.8858	0.9055	25.00	25.55	ug/L	2	20	
Carbon Disulfide	457437048021	2.5954	2.2413	25.00	21.59	ug/L	-14	20	
MTBE	457437048021	2.2794	2.1453	25.00	23.53	ug/L	-6	20	
trans-1,2-Dichloroethene	457437048021	0.7223	0.6725	25.00	23.28	ug/L	-7	20	
Vinyl Acetate	457437048021	2.1249	1.7340	25.00	20.40	ug/L	-18	30	
1,1-Dichloroethane	457437048021	1.5254	1.4580	25.00	23.89	ug/L	-4	20	
2-Butanone	457437048021	0.7598	0.6752	25.00	22.22	ug/L	-11	30	
2,2-Dichloropropane	457437048021	0.7592	0.6759	25.00	22.25	ug/L	-11	20	
cis-1,2-Dichloroethene	457437048021	0.8178	0.8096	25.00	24.75	ug/L	-1	20	
Chloroform	457437048021	1.3164	1.2723	25.00	24.16	ug/L	-3	20	
Bromochloromethane	457437048021	0.4270	0.4309	25.00	25.23	ug/L	1	20	
1,1,1-Trichloroethane	457437048021	0.8226	0.7588	25.00	23.06	ug/L	-8	20	
1,1-Dichloropropene	457437048021	0.5549	0.5434	25.00	24.48	ug/L	-2	20	
Carbon Tetrachloride	457437048021	0.3947	0.3661	25.00	23.19	ug/L	-7	20	
1,2-Dichloroethane	457437048021	0.6038	0.5769	25.00	23.88	ug/L	-4	20	
Benzene	457437048021	1.7264	1.7408	25.00	25.21	ug/L	1	20	
Trichloroethene	457437048021	0.4014	0.3979	25.00	24.78	ug/L	-1	20	
1,2-Dichloropropane	457437048021	0.5501	0.5434	25.00	24.70	ug/L	-1	20	
Bromodichloromethane	457437048021	0.5878	0.5885	25.00	25.03	ug/L	0	20	
Dibromomethane	457437048021	0.3247	0.3297	25.00	25.38	ug/L	2	20	
4-Methyl-2-Pentanone	457437048021	0.8201	0.7989	25.00	24.35	ug/L	-3	30	
cis-1,3-Dichloropropene	457437048021	0.7342	0.7337	25.00	24.99	ug/L	0	20	
Toluene	457437048021	0.9434	0.9396	25.00	24.90	ug/L	0	20	
trans-1,3-Dichloropropene	457437048021	0.6310	0.5882	25.00	23.31	ug/L	-7	20	
1,1,2-Trichloroethane	457437048021	0.2433	0.2486	25.00	25.54	ug/L	2	20	
2-Hexanone	457437048021	0.7153	0.6865	25.00	24.00	ug/L	-4	30	
1,3-Dichloropropane	457437048021	0.8093	0.8311	25.00	25.67	ug/L	3	20	
Tetrachloroethene	457437048021	0.4082	0.4017	25.00	24.61	ug/L	-2	20	
Dibromochloromethane	457437048021	0.5518	0.5246	25.00	23.77	ug/L	-5	20	
1,2-Dibromoethane	457437048021	0.4624	0.4532	25.00	24.50	ug/L	-2	20	
Chlorobenzene	457437048021	1.1788	1.1662	25.00	24.73	ug/L	-1	20	
1,1,1,2-Tetrachloroethane	457437048021	0.4424	0.4382	25.00	24.77	ug/L	-1	20	
Ethylbenzene	457437048021	1.9770	1.9871	25.00	25.13	ug/L	1	20	
m,p-Xylenes	457437048021	0.7031	0.6993	50.00	49.73	ug/L	-1	20	
o-Xylene	457437048021	0.7082	0.6981	25.00	24.64	ug/L	-1	20	
Styrene	457437048021	1.2529	1.2673	25.00	25.29	ug/L	1	20	
Bromoform	457437048021	0.3993	0.3984	25.00	24.95	ug/L	0	20	
Isopropylbenzene	457437048021	3.4828	3.0953	25.00	22.22	ug/L	-11	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	457437048021	1.5885	1.5201	25.00	23.92	ug/L	-4	20	
1,2,3-Trichloropropane	457437048021	1.2287	1.1557	25.00	23.52	ug/L	-6	20	
Propylbenzene	457437048021	4.6614	4.4572	25.00	23.90	ug/L	-4	20	
Bromobenzene	457437048021	1.0451	1.0693	25.00	25.58	ug/L	2	20	
1,3,5-Trimethylbenzene	457437048021	2.9759	2.8797	25.00	24.19	ug/L	-3	20	
2-Chlorotoluene	457437048021	3.1277	3.1246	25.00	24.98	ug/L	0	20	
4-Chlorotoluene	457437048021	2.9473	2.7292	25.00	23.15	ug/L	-7	20	
tert-Butylbenzene	457437048021	2.4206	2.3113	25.00	23.87	ug/L	-5	20	
1,2,4-Trimethylbenzene	457437048021	2.9758	3.0098	25.00	25.29	ug/L	1	20	
sec-Butylbenzene	457437048021	3.9496	3.7783	25.00	23.92	ug/L	-4	20	
para-Isopropyl Toluene	457437048021	3.0206	2.8190	25.00	23.33	ug/L	-7	20	
1,3-Dichlorobenzene	457437048021	1.8429	1.7093	25.00	23.19	ug/L	-7	20	
1,4-Dichlorobenzene	457437048021	1.8642	1.7564	25.00	23.55	ug/L	-6	20	
n-Butylbenzene	457437048021	3.0804	2.8291	25.00	22.96	ug/L	-8	20	
1,2-Dichlorobenzene	457437048021	1.7857	1.7425	25.00	24.40	ug/L	-2	20	
1,2-Dibromo-3-Chloropropane	457437048021	0.2976	0.2717	25.00	22.83	ug/L	-9	20	
1,2,4-Trichlorobenzene	457437048021	1.0241	0.9461	25.00	23.10	ug/L	-8	20	
Hexachlorobutadiene	457437048021	0.5630	0.5470	25.00	24.29	ug/L	-3	20	
Naphthalene	457437048021	2.7354	2.5660	25.00	23.45	ug/L	-6	20	
1,2,3-Trichlorobenzene	457437048021	1.0163	0.9974	25.00	24.54	ug/L	-2	20	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 MSVOA Soil
EPA 8260B

Inst : MSVOA06 Run Name : 30PPB IDF : 1.0
Seqnum : 457458384003.1 File : fke03 Time : 14-NOV-2007 08:39
Cal : 457437048001 Caldate : 30-OCT-2007 Caltype : SOIL
Standards: S7417 (16670X), S7403 (16670X), S7444 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5677	0.6469	30.00	34.19	ug/L	14	20	0.0500	
Chloromethane	1.0774	1.1871	30.00	33.06	ug/L	10	20	0.1000	
Vinyl Chloride	0.8692	0.9333	30.00	32.21	ug/L	7	20	0.0500	
Bromomethane	0.3796	0.4194	30.00	33.15	ug/L	10	20	0.0500	
Chloroethane	0.4249	0.4742	30.00	33.48	ug/L	12	20	0.0500	
Trichlorofluoromethane	0.8161	0.9431	30.00	34.67	ug/L	16	20	0.0500	
Acetone	0.5077	0.6304	30.00	37.25	ug/L	24	30	0.0500	
Freon 113	0.6874	0.8189	30.00	35.74	ug/L	19	20	0.0500	
1,1-Dichloroethene	0.5835	0.6513	30.00	33.49	ug/L	12	20	0.0500	
Methylene Chloride	0.8858	0.9124	30.00	30.90	ug/L	3	20	0.0500	
Carbon Disulfide	2.5954	2.8559	30.00	33.01	ug/L	10	20	0.0500	
MTBE	2.2794	2.3368	30.00	30.76	ug/L	3	20	0.0500	
trans-1,2-Dichloroethene	0.7223	0.7726	30.00	32.09	ug/L	7	20	0.0500	
Vinyl Acetate	2.1249	2.2843	30.00	32.25	ug/L	8	30	0.0500	
1,1-Dichloroethane	1.5254	1.5275	30.00	30.04	ug/L	0	20	0.1000	
2-Butanone	0.7598	0.7953	30.00	31.40	ug/L	5	30	0.0500	
2,2-Dichloropropane	0.7592	0.9292	30.00	36.72	ug/L	**22**	20	0.0500	c+ ***
cis-1,2-Dichloroethene	0.8178	0.8315	30.00	30.50	ug/L	2	20	0.0500	
Chloroform	1.3164	1.3274	30.00	30.25	ug/L	1	20	0.0500	
Bromochloromethane	0.4270	0.4452	30.00	31.28	ug/L	4	20	0.0500	
1,1,1-Trichloroethane	0.8226	0.8715	30.00	31.78	ug/L	6	20	0.0500	
1,1-Dichloropropene	0.5549	0.6133	30.00	33.16	ug/L	11	20	0.0500	
Carbon Tetrachloride	0.3947	0.4281	30.00	32.54	ug/L	8	20	0.0500	
1,2-Dichloroethane	0.6038	0.6105	30.00	30.33	ug/L	1	20	0.0500	
Benzene	1.7264	1.7897	30.00	31.10	ug/L	4	20	0.0500	
Trichloroethene	0.4014	0.4365	30.00	32.62	ug/L	9	20	0.0500	
1,2-Dichloropropane	0.5501	0.5602	30.00	30.55	ug/L	2	20	0.0500	
Bromodichloromethane	0.5878	0.5861	30.00	29.92	ug/L	0	20	0.0500	
Dibromomethane	0.3247	0.3337	30.00	30.83	ug/L	3	20	0.0500	
4-Methyl-2-Pentanone	0.8201	0.8327	30.00	30.46	ug/L	2	30	0.0500	
cis-1,3-Dichloropropene	0.7342	0.7690	30.00	31.43	ug/L	5	20	0.0500	
Toluene	0.9434	1.0224	30.00	32.51	ug/L	8	20	0.0500	
trans-1,3-Dichloropropene	0.6310	0.6638	30.00	31.56	ug/L	5	20	0.0500	
1,1,2-Trichloroethane	0.2433	0.2477	30.00	30.54	ug/L	2	20	0.0500	
2-Hexanone	0.7153	0.6944	30.00	29.13	ug/L	-3	30	0.0500	
1,3-Dichloropropane	0.8093	0.8078	30.00	29.95	ug/L	0	20	0.0500	
Tetrachloroethene	0.4082	0.5018	30.00	36.88	ug/L	**23**	20	0.0500	c+ ***
Dibromochloromethane	0.5518	0.5418	30.00	29.46	ug/L	-2	20	0.0500	
1,2-Dibromoethane	0.4624	0.4626	30.00	30.01	ug/L	0	20	0.0500	
Chlorobenzene	1.1788	1.2126	30.00	30.86	ug/L	3	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4424	0.4291	30.00	29.10	ug/L	-3	20	0.0500	
Ethylbenzene	1.9770	2.0186	30.00	30.63	ug/L	2	20	0.0500	
m,p-Xylenes	0.7031	0.7383	60.00	63.01	ug/L	5	20	0.0500	
o-Xylene	0.7082	0.7360	30.00	31.18	ug/L	4	20	0.0500	
Styrene	1.2529	1.2702	30.00	30.42	ug/L	1	20	0.0500	
Bromoform	0.3993	0.4071	30.00	30.59	ug/L	2	20	0.1000	
Isopropylbenzene	3.4828	3.4667	30.00	29.86	ug/L	0	20	0.0500	
1,1,2,2-Tetrachloroethane	1.5885	1.3636	30.00	25.75	ug/L	-14	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	1.2287	1.0629	30.00	25.95	ug/L	-13	20	0.0500	
Propylbenzene	4.6614	4.5369	30.00	29.20	ug/L	-3	20	0.0500	
Bromobenzene	1.0451	1.0450	30.00	30.00	ug/L	0	20	0.0500	
1,3,5-Trimethylbenzene	2.9759	2.8830	30.00	29.06	ug/L	-3	20	0.0500	
2-Chlorotoluene	3.1277	3.0149	30.00	28.92	ug/L	-4	20	0.0500	
4-Chlorotoluene	2.9473	2.8382	30.00	28.89	ug/L	-4	20	0.0500	
tert-Butylbenzene	2.4206	2.3683	30.00	29.35	ug/L	-2	20	0.0500	
1,2,4-Trimethylbenzene	2.9758	2.9087	30.00	29.32	ug/L	-2	20	0.0500	
sec-Butylbenzene	3.9496	3.8042	30.00	28.90	ug/L	-4	20	0.0500	
para-Isopropyl Toluene	3.0206	3.0734	30.00	30.53	ug/L	2	20	0.0500	
1,3-Dichlorobenzene	1.8429	1.8863	30.00	30.71	ug/L	2	20	0.0500	
1,4-Dichlorobenzene	1.8642	1.9502	30.00	31.38	ug/L	5	20	0.0500	
n-Butylbenzene	3.0804	3.1326	30.00	30.51	ug/L	2	20	0.0500	
1,2-Dichlorobenzene	1.7857	1.7945	30.00	30.15	ug/L	0	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2976	0.2455	30.00	24.74	ug/L	-18	20	0.0500	
1,2,4-Trichlorobenzene	1.0241	1.1892	30.00	34.84	ug/L	16	20	0.0500	
Hexachlorobutadiene	0.5630	0.6432	30.00	34.28	ug/L	14	20	0.0500	
Naphthalene	2.7354	2.6043	30.00	28.56	ug/L	-5	20	0.0500	
1,2,3-Trichlorobenzene	1.0163	1.0988	30.00	32.44	ug/L	8	20	0.0500	
Dibromofluoromethane	0.6494	0.6204	50.00	47.77	ug/L	-4	20	0.0500	
1,2-Dichloroethane-d4	0.3563	0.3665	50.00	51.43	ug/L	3	20	0.0500	
Trifluorotoluene	0.5673	0.6917	30.00	36.58	ug/L	**22**	20	0.0500	c+
Toluene-d8	1.0288	1.0963	50.00	53.28	ug/L	7	20	0.0500	
Bromofluorobenzene	1.1047	1.0269	50.00	46.48	ug/L	-7	20	0.0500	

ISTD (ICAL fju16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	647926	813953	25.62	11.95	11.96	0.02
1,4-Difluorobenzene	1140261	1388116	21.74	13.26	13.27	0.02
Chlorobenzene-d5	1005164	1244329	23.79	17.97	17.98	0.01
1,4-Dichlorobenzene-d4	467848	648201	38.55	20.83	20.83	0.00

Analyst: BO Date: 11/15/07 Reviewer: LW Date: 11/15/07

+=high bias c=CCV

457458384003.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 457458384

Date : 11/14/07
Sequence : MSVOA06 fke

Reference : fju16
Analyzed : 10/30/07 19:40

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	647926	11.95	1140261	13.26	1005164	17.97	467848	20.83
		LOWER LIMIT	323963	11.45	570131	12.76	502582	17.47	233924	20.33
		UPPER LIMIT	1295852	12.45	2280522	13.76	2010328	18.47	935696	21.33
003	CCV	30PPB	813953	11.96	1388116	13.27	1244329	17.98	648201	20.83
004	BS	QC415308	774439	11.95	1309305	13.26	1178718	17.98	734550	20.82
005	BSD	QC415309	733469	11.95	1251310	13.26	1161372	17.98	609062	20.83
007	BLANK	QC415310	726323	11.95	1224279	13.26	1135971	17.98	594577	20.83
009	SAMPLE	199066-003	745260	11.95	1274961	13.27	1145980	17.99	581872	20.83
010	SAMPLE	199066-004	727710	11.95	1271698	13.26	1159377	17.99	593792	20.83
012	SAMPLE	199160-004	728245	11.95	1285720	13.26	1172055	17.98	578559	20.83
015	MSS	199248-002	753456	11.96	1355576	13.27	1240187	17.99	629356	20.84
016	MS	QC415448	727363	11.96	1328135	13.27	1242230	17.99	636992	20.83
017	MSD	QC415449	761597	11.96	1332538	13.27	1254789	17.99	648297	20.83

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457437048

Instrument : MSVOA06
Method : EPA 8260B
Begun : 10/30/07 12:08
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fju01	X	IB			10/30/07 12:08	1.0	1	
002	fju02	TUN	BFB			10/30/07 12:42	1.0	2	
003	fju03	CCV	20PPB			10/30/07 12:59	1.0	3 4 1	
004	fju04	TUN	BFB			10/30/07 14:16	1.0	2	
005	fju05	TUN	BFB			10/30/07 14:35	1.0	2	
006	fju06	TUN	BFB			10/30/07 14:49	1.0	2	
007	fju07	TUN	BFB			10/30/07 15:02	1.0	2	
008	fju08	TUN	BFB			10/30/07 15:16	1.0	2	
009	fju09	X	IB			10/30/07 15:35	1.0	1	
010	fju10	X	IB			10/30/07 16:10	1.0	1	
011	fju11	IB	CALIB IB			10/30/07 16:45	1.0	1	
012	fju12	ICAL	2.5PPB			10/30/07 17:19	1.0	5 6 1	
013	fju13	ICAL	5PPB			10/30/07 17:54	1.0	5 6 1	
014	fju14	ICAL	10PPB			10/30/07 18:30	1.0	5 6 1	
015	fju15	ICAL	20PPB			10/30/07 19:05	1.0	3 7 1	
016	fju16	ICAL	50PPB			10/30/07 19:40	1.0	3 7 1	
017	fju17	ICAL	60PPB			10/30/07 20:15	1.0	3 7 1	
018	fju18	ICAL	75PPB			10/30/07 20:50	1.0	3 7 1	
019	fju19	ICAL	100PPB			10/30/07 21:24	1.0	3 7 1	
020	fju20	ICV	25PPB			10/30/07 21:59	1.0	8 1	
021	fju21	ICV	25PPB			10/30/07 22:34	1.0	9 10 1	
022	fju22	X	IB			10/30/07 23:09	1.0	1	
023	fju23	X	IB			10/30/07 23:44	1.0	1	

Analyst: BO Date: 10/31/07 Reviewer: LW Date: 10/31/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7424 6=S7425 7=S7531 8=S7415 9=S7480 10=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 457458384

Instrument : MSVOA06
Method : EPA 8260B

Begun : 11/14/07 07:44
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	fke01	X	IB			11/14/07 07:44	1.0	1
002	fke02	TUN	BFB			11/14/07 08:22	1.0	2
003	fke03	CCV	30PPB			11/14/07 08:39	1.0	3 4 1
004	fke04	BS	QC415308	Soil	131706	11/14/07 09:31	1.0	5 6 7 1
005	fke05	BSD	QC415309	Soil	131706	11/14/07 10:06	1.0	5 6 7 1
006	fke06	X	IB			11/14/07 10:41	1.0	1
007	fke07	BLANK	QC415310	Soil	131706	11/14/07 11:16	1.0	1
008	fke08	X	IB			11/14/07 12:01	1.0	1
009	fke09	SAMPLE	199066-003	Soil	131706	11/14/07 12:37	1.0	1
010	fke10	SAMPLE	199066-004	Soil	131706	11/14/07 13:12	1.0	1
011	fke11	X	IB			11/14/07 13:47	1.0	1
012	fke12	SAMPLE	199160-004	Soil	131706	11/14/07 14:22	4.545	1
013	fke13	X	IB			11/14/07 14:57	1.0	1
014	fke14	X	LOW PT			11/14/07 15:32	1.0	1
015	fke15	MSS	199248-002	Soil	131706	11/14/07 16:07	0.8929	1
016	fke16	MS	QC415448	Soil	131706	11/14/07 16:42	0.8929	5 6 7 1
017	fke17	MSD	QC415449	Soil	131706	11/14/07 17:16	0.8929	5 6 7 1
018	fke18	X	IB			11/14/07 17:51	1.0	1
019	fke19	X	IB			11/14/07 18:26	1.0	1
020	fke20	X	IB			11/14/07 19:01	1.0	1
021	fke21	X	6A			11/14/07 19:36	1.0	1
022	fke22	X	6B			11/14/07 20:10	1.0	1

Analyst: BO Date: 11/15/07 Reviewer: LW Date: 11/15/07

Standards used: 1=S7444 2=S6497 3=S7417 4=S7403 5=S7629 6=S7652 7=S7498

REPORTING SUMMARY FOR 199248 MSVOA Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF
199248-002	MSVOA06	N	11/14/07 16:07	0.8929
QC415308	MSVOA06	N	11/14/07 09:31	1.0
QC415309	MSVOA06	N	11/14/07 10:06	1.0
QC415310	MSVOA06	N	11/14/07 11:16	1.0
QC415448	MSVOA06	N	11/14/07 16:42	0.8929
QC415449	MSVOA06	N	11/14/07 17:16	0.8929

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/14/07

Prepped by: ZD

131706

HT 131712

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	199142-3	4.5	A		12	analyze next alias 199142-2	36.0-	31.5 Air
2	-4					-2		
3	-5					1000x -2		
4	-8	4.3	A	X		25x analyze 1st. Soil Meoh	32.1-	27.8
5	-11	5.0				Air alias 199142-10	36.7-	31.7
6	-12	4.6				H20 -10		
7	-13	5.8		X		carbon -10		
8	199216-1	1.0	A	X		Nail Polish Screen @	500,000	
9	199200-1	10.0					5,000x	
10	199160-1	10.0					5,000x	
11	199066-3	5.0			6	Storage blks		
12	-4	5.0						
13	199160-4	1.1	A		6	MS 5x, meth > ck		
14	199142-4	3.2			12	H2O portion of sample		
15	-5	6.7		X		Wet carbon 1000x		
16	199248-2	5.6	A		6	MS/MSD/MSD		
17	199142-8	0.002			12	MS 2,500x, > ck		
18	-8					1000		
19								
20								
21								
22								
23								
24								
25	P. Blank Meth	0.200	—		12	25x 11/14/07		
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date *
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

8270-SIM
Soil

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX367[4.0]	Batch#:	131815
Lab ID:	199248-002	Sampled:	11/14/07
Matrix:	Soil	Received:	11/14/07
Units:	ug/Kg	Prepared:	11/15/07
Basis:	dry	Analyzed:	11/16/07
Diln Fac:	1.000		

Moisture: 9%

Analyte	Result	RL	MDL
Naphthalene	ND	5.5	0.86
2-Methylnaphthalene	ND	5.5	0.73
Acenaphthylene	ND	5.5	0.71
Acenaphthene	ND	5.5	0.77
Fluorene	ND	5.5	0.82
Phenanthrene	ND	5.5	0.62
Anthracene	ND	5.5	0.78
Fluoranthene	ND	5.5	0.76
Pyrene	ND	5.5	0.69
Benzo(a)anthracene	ND	5.5	0.90
Chrysene	ND	5.5	0.83
Benzo(b)fluoranthene	ND	5.5	0.61
Benzo(k)fluoranthene	ND	5.5	0.80
Benzo(a)pyrene	ND	5.5	0.73
Indeno(1,2,3-cd)pyrene	ND	5.5	0.62
Dibenz(a,h)anthracene	ND	5.5	0.65
Benzo(g,h,i)perylene	ND	5.5	0.62

Surrogate	%REC	Limits
Nitrobenzene-d5	55	39-136
2-Fluorobiphenyl	72	42-120
Terphenyl-d14	67	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC415796	Batch#:	131815
Matrix:	Soil	Prepared:	11/15/07
Units:	ug/Kg	Analyzed:	11/16/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.78
2-Methylnaphthalene	1.3 J	5.0	0.66
Acenaphthylene	ND	5.0	0.64
Acenaphthene	ND	5.0	0.70
Fluorene	ND	5.0	0.75
Phenanthrene	0.63 J	5.0	0.57
Anthracene	ND	5.0	0.71
Fluoranthene	ND	5.0	0.69
Pyrene	ND	5.0	0.63
Benzo(a)anthracene	ND	5.0	0.81
Chrysene	ND	5.0	0.76
Benzo(b)fluoranthene	ND	5.0	0.56
Benzo(k)fluoranthene	ND	5.0	0.72
Benzo(a)pyrene	ND	5.0	0.66
Indeno(1,2,3-cd)pyrene	ND	5.0	0.56
Dibenz(a,h)anthracene	ND	5.0	0.59
Benzo(g,h,i)perylene	ND	5.0	0.56

Surrogate	%REC	Limits
Nitrobenzene-d5	64	39-136
2-Fluorobiphenyl	80	42-120
Terphenyl-d14	74	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC415797	Batch#:	131815
Matrix:	Soil	Prepared:	11/15/07
Units:	ug/Kg	Analyzed:	11/15/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.27	26.20	79	42-120
Pyrene	33.27	25.85	78	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	85	39-136
2-Fluorobiphenyl	95	42-120
Terphenyl-d14	76	34-130

CURTIS & TOMPKINS DFTPP TUNE FOR 199248 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527449989008 File : vk808 Time : 08-NOV-2007 21:18

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	105613	53.38	
68	< 2% of mass 69	0	0.00	
69		134730		
70	< 2% of mass 69	630	0.47	
127	40% - 60% of mass 198	108312	54.74	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	13249	6.70	
275	10% - 30% of mass 198	55312	27.95	
365	> 1% of mass 198	5624	2.84	
441	Present, < mass 443	25229	84.31	
442	> 40% and < 100% of mass 198	154304	77.98	
443	17% - 23% of mass 442	29925	19.39	

Analyst: JAJ Date: 11/09/07 Reviewer: LW Date: 11/12/07

527449989008

CURTIS & TOMPKINS DFTPP TUNE FOR 199248 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527459966006 File : vkf06 Time : 15-NOV-2007 21:05

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	299760	47.40	
68	< 2% of mass 69	0	0.00	
69		397574		
70	< 2% of mass 69	838	0.21	
127	40% - 60% of mass 198	345342	54.60	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	44350	7.01	
275	10% - 30% of mass 198	172117	27.21	
365	> 1% of mass 198	20582	3.25	
441	Present, < mass 443	84965	86.54	
442	> 40% and < 100% of mass 198	494464	78.18	
443	17% - 23% of mass 442	98176	19.86	

Analyst: LLH Date: 11/16/07 Reviewer: AD Date: 11/16/07

527459966006

CURTIS & TOMPKINS DFTPP TUNE FOR 199248 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP IDF : 1.0
Seqnum : 577399499007 File : sj407 Time : 04-OCT-2007 14:02

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	56723	51.72	
68	< 2% of mass 69	0	0.00	
69		51520		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	54896	50.05	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	7427	6.77	
275	10% - 30% of mass 198	26024	23.73	
365	> 1% of mass 198	3682	3.36	
441	Present, < mass 443	1730	12.57	
442	> 40% and < 100% of mass 198	71352	65.06	
443	17% - 23% of mass 442	13763	19.29	

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

577399499007

CURTIS & TOMPKINS DFTPP TUNE FOR 199248 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 577461426001 File : skg01 Time : 16-NOV-2007 10:26

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	64296	35.37	
68	< 2% of mass 69	0	0.00	
69		61744		
70	< 2% of mass 69	0	0.00	
127	40% - 60% of mass 198	76608	42.15	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	12790	7.04	
275	10% - 30% of mass 198	43864	24.13	
365	> 1% of mass 198	5537	3.05	
441	Present, < mass 443	20712	92.17	
442	> 40% and < 100% of mass 198	116368	64.02	
443	17% - 23% of mass 442	22472	19.31	

Analyst: LLH Date: 11/16/07 Reviewer: AD Date: 11/16/07

577461426001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199248 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 527449989003
Units : ug/mL

Name : 3PAHSIM
Date : 08-NOV-2007 21:39
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vk809	527449989009	ICAL1	08-NOV-2007 21:39	S7213
L2	vk810	527449989010	ICAL2	08-NOV-2007 22:12	S7214
L3	vk811	527449989011	ICAL3	08-NOV-2007 22:46	S7215
L4	vk812	527449989012	ICAL4	08-NOV-2007 23:21	S7216
L5	vk813	527449989013	ICAL5	08-NOV-2007 23:56	S7217
L6	vk814	527449989014	ICAL6	09-NOV-2007 00:32	S7218
L7	vk815	527449989015	ICAL7	09-NOV-2007 01:04	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1005	1.1174	1.1301	1.1427	1.1419	1.1524	1.1274	AVRG		0.88469		1.1303	2	15	0.05	0.99	
2-Methylnaphthalene	0.7478	0.7522	0.7641	0.7694	0.7720	0.7862	0.7768	AVRG		1.30389		0.7669	2	15	0.05	0.99	
Acenaphthylene	1.6168	1.6367	1.7498	1.8547	1.9248	1.9937	1.9522	AVRG		0.54994		1.8184	8	15	0.05	0.99	
Acenaphthene	1.0848m	1.1039m	1.1336	1.1523	1.1634	1.1995	1.1869	AVRG		0.87233		1.1464	4	15	0.05	0.99	
Fluorene	1.3105	1.3324	1.3703	1.3782	1.3935	1.4300	1.4239	AVRG		0.72622		1.3770	3	15	0.05	0.99	
Phenanthrene	1.2260m	1.2527	1.2638	1.2756	1.2856	1.2953	1.2694	AVRG		0.78932		1.2669	2	15	0.05	0.99	
Anthracene	0.9365m	0.9669	1.0205	1.0818	1.1256	1.1745	1.1699	AVRG		0.93635		1.0680	9	15	0.05	0.99	
Fluoranthene	1.2127	1.2395	1.2794	1.3044	1.3451	1.3498	1.3241	AVRG		0.77305		1.2936	4	15	0.05	0.99	
Pyrene	1.4218	1.4780	1.5018	1.5219	1.5199	1.5321	1.4777	AVRG		0.66965		1.4933	3	15	0.05	0.99	
Benzo(a)anthracene	1.1446	1.1658	1.1995	1.2594	1.3011	1.3470	1.3059	AVRG		0.80243		1.2462	6	15	0.05	0.99	
Chrysene	1.1826m	1.2217m	1.2549m	1.2705	1.2842	1.2926	1.2519	AVRG		0.79924		1.2512	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3494m	1.3913m	1.4645m	1.4986	1.5319	1.5622	1.5285	AVRG		0.67787		1.4752	5	15	0.05	0.99	
Benzo(k)fluoranthene	1.3090m	1.3508m	1.3644m	1.4291m	1.4533m	1.5152	1.5091	AVRG		0.70488		1.4187	6	15	0.05	0.99	
Benzo(a)pyrene	1.1475m	1.1915m	1.2340m	1.3096	1.3580	1.4514	1.4477	AVRG		0.76589		1.3057	9	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2534m	1.3086m	1.3575	1.4395	1.4848	1.5706	1.5676	AVRG		0.70126		1.4260	9	15	0.05	0.99	
Dibenz(a,h)anthracene	1.0223	1.0639	1.0988	1.1683	1.2028	1.2826	1.2921	AVRG		0.86092		1.1616	9	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1082	1.1638	1.1822	1.2408	1.2618	1.2822	1.2684	AVRG		0.82281		1.2153	5	15	0.05	0.99	
Nitrobenzene-d5	0.3937m	0.3942m	0.4208	0.4420	0.4713	0.5040	0.5086	AVRG		2.23312		0.4478	11	15	0.05	0.99	
2-Fluorobiphenyl	1.3689	1.3902	1.4139	1.4241	1.4129	1.4172	1.3818	AVRG		0.71364		1.4013	1	15	0.05	0.99	
Terphenyl-d14	1.0154	1.0592	1.0668	1.0868	1.0764	1.0869	1.0605	AVRG		0.93936		1.0646	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	0	1.000	1	2.000	1	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-2	0.200	-2	0.500	0	1.000	0	2.000	1	5.000	3	10.00	1
Acenaphthylene	0.100	-11	0.200	-10	0.500	-4	1.000	2	2.000	6	5.000	10	10.00	7
Acenaphthene	0.100	-5	0.200	-4	0.500	-1	1.000	1	2.000	1	5.000	5	10.00	4
Fluorene	0.100	-5	0.200	-3	0.500	0	1.000	0	2.000	1	5.000	4	10.00	3
Phenanthrene	0.100	-3	0.200	-1	0.500	0	1.000	1	2.000	1	5.000	2	10.00	0
Anthracene	0.100	-12	0.200	-9	0.500	-4	1.000	1	2.000	5	5.000	10	10.00	10
Fluoranthene	0.100	-6	0.200	-4	0.500	-1	1.000	1	2.000	4	5.000	4	10.00	2
Pyrene	0.100	-5	0.200	-1	0.500	1	1.000	2	2.000	2	5.000	3	10.00	-1
Benzo(a)anthracene	0.100	-8	0.200	-6	0.500	-4	1.000	1	2.000	4	5.000	8	10.00	5
Chrysene	0.100	-5	0.200	-2	0.500	0	1.000	2	2.000	3	5.000	3	10.00	0
Benzo(b)fluoranthene	0.100	-9	0.200	-6	0.500	-1	1.000	2	2.000	4	5.000	6	10.00	4
Benzo(k)fluoranthene	0.100	-8	0.200	-5	0.500	-4	1.000	1	2.000	2	5.000	7	10.00	6
Benzo(a)pyrene	0.100	-12	0.200	-9	0.500	-5	1.000	0	2.000	4	5.000	11	10.00	11
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-8	0.500	-5	1.000	1	2.000	4	5.000	10	10.00	10
Dibenz(a,h)anthracene	0.100	-12	0.200	-8	0.500	-5	1.000	1	2.000	4	5.000	10	10.00	11
Benzo(g,h,i)perylene	0.100	-9	0.200	-4	0.500	-3	1.000	2	2.000	4	5.000	6	10.00	4
Nitrobenzene-d5	0.100	-12	0.200	-12	0.500	-6	1.000	-1	2.000	5	5.000	13	10.00	14
2-Fluorobiphenyl	0.100	-2	0.200	-1	0.500	1	1.000	2	2.000	1	5.000	1	10.00	-1
Terphenyl-d14	0.100	-5	0.200	-1	0.500	0	1.000	2	2.000	1	5.000	2	10.00	0

JAJ 11/09/07 : All manual integrations performed in order to match baseline and/or to include the appropriate amount of tailing.

Analyst: JAJ Date: 11/12/07 Reviewer: LW Date: 11/12/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199248 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Name : 3PAHSIM
Calnum : 527449989003 Cal Date : 08-NOV-2007

ICV 527449989016 (vk816 09-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1303	1.0585	1.000	0.9364	ug/mL	-6	20	
2-Methylnaphthalene	0.7669	0.6933	1.000	0.9040	ug/mL	-10	20	
Acenaphthylene	1.8184	1.7016	1.000	0.9358	ug/mL	-6	20	
Acenaphthene	1.1464	1.0684	1.000	0.9320	ug/mL	-7	20	
Fluorene	1.3770	1.2890	1.000	0.9361	ug/mL	-6	20	
Phenanthrene	1.2669	1.1862	1.000	0.9363	ug/mL	-6	20	
Anthracene	1.0680	1.0902	1.000	1.021	ug/mL	2	20	
Fluoranthene	1.2936	1.2479	1.000	0.9647	ug/mL	-4	20	
Pyrene	1.4933	1.4233	1.000	0.9531	ug/mL	-5	20	
Benzo(a)anthracene	1.2462	1.1492	1.000	0.9221	ug/mL	-8	20	
Chrysene	1.2512	1.1868	1.000	0.9486	ug/mL	-5	20	m
Benzo(b)fluoranthene	1.4752	1.4257	1.000	0.9664	ug/mL	-3	20	
Benzo(k)fluoranthene	1.4187	1.3464	1.000	0.9490	ug/mL	-5	20	m
Benzo(a)pyrene	1.3057	1.1894	1.000	0.9109	ug/mL	-9	20	
Indeno(1,2,3-cd)pyrene	1.4260	1.2584	1.000	0.8825	ug/mL	-12	20	
Dibenz(a,h)anthracene	1.1616	1.0630	1.000	0.9152	ug/mL	-8	20	
Benzo(g,h,i)perylene	1.2153	1.1227	1.000	0.9237	ug/mL	-8	20	

m=manual integration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199248 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA08
Calnum : 577399499001
Units : ug/mL

Name : 8PAHSIM
Date : 04-OCT-2007 14:22
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sj408	577399499008	ICAL 1	04-OCT-2007 14:22	S7213
L2	sj409	577399499009	ICAL 2	04-OCT-2007 14:56	S7214
L3	sj410	577399499010	ICAL 3	04-OCT-2007 15:30	S7215
L4	sj411	577399499011	ICAL 4	04-OCT-2007 16:04	S7216
L5	sj412	577399499012	ICAL 5	04-OCT-2007 16:39	S7217
L6	sj413	577399499013	ICAL 6	04-OCT-2007 17:12	S7218
L7	sj414	577399499014	ICAL 7	04-OCT-2007 17:48	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0279	1.0515	1.0576	1.0897	1.1167	1.1535	1.2380	AVRG		0.90498		1.1050	7	15	0.05	0.99	
2-Methylnaphthalene	0.6403m	0.6568m	0.6877m	0.7160	0.7280m	0.7787	0.8453	AVRG		1.38539		0.7218	10	15	0.05	0.99	
Acenaphthylene	1.7392	1.8386	1.9029	1.9958	2.0197	2.1992	2.3361	AVRG		0.49888		2.0045	10	15	0.05	0.99	
Acenaphthene	1.0019	1.0569	1.0675	1.1020	1.1192	1.2126	1.2895	AVRG		0.89178		1.1214	9	15	0.05	0.99	
Fluorene	1.1914	1.2346	1.2475	1.3164	1.3582	1.4628	1.5782	AVRG		0.74555		1.3413	10	15	0.05	0.99	
Phenanthrene	1.1189m	1.1515	1.1377	1.1762	1.2097	1.2929	1.3921	AVRG		0.82557		1.2113	8	15	0.05	0.99	
Anthracene	0.9378m	1.0065m	1.0433m	1.0988m	1.1294m	1.2291m	1.3229m	AVRG		0.90116		1.1097	12	15	0.05	0.99	
Fluoranthene	1.1865	1.2445	1.2562	1.3463	1.3710	1.4915	1.6034	AVRG		0.73688		1.3571	11	15	0.05	0.99	
Pyrene	1.1893	1.2221	1.2595	1.2855	1.3234	1.3731	1.3996	AVRG		0.77327		1.2932	6	15	0.05	0.99	
Benzo(a)anthracene	1.0258	1.0731	1.0847	1.1222	1.1667	1.2004	1.2265	AVRG		0.88614		1.1285	6	15	0.05	0.99	
Chrysene	1.0339m	1.0823m	1.0962m	1.1245m	1.1405m	1.1794m	1.1936m	AVRG		0.89167		1.1215	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.1368	1.2311	1.2480	1.3220	1.3494	1.4862	1.5129	AVRG		0.75379		1.3266	10	15	0.05	0.99	
Benzo(k)fluoranthene	1.1967m	1.2520m	1.3252m	1.3825m	1.4218m	1.5105m	1.5616m	AVRG		0.72536		1.3786	10	15	0.05	0.99	
Benzo(a)pyrene	1.0597	1.1129	1.1625	1.2451	1.3016	1.4106	1.4795	AVRG		0.79800		1.2531	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2909	1.4000	1.4491	1.5667	1.6263	1.7915	1.8456	AVRG		0.63810		1.5672	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9958	1.0914	1.1341	1.2279	1.2881	1.4330	1.5289	AVRG		0.80467		1.2427	15	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1512	1.2277	1.2880	1.3571	1.3963	1.5107	1.5496	AVRG		0.73834		1.3544	11	15	0.05	0.99	
Nitrobenzene-d5	0.2170	0.2239	0.2350	0.2499	0.2509	0.2690	0.2799	AVRG		4.05662		0.2465	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2568	1.2885	1.3273	1.3749	1.4096	1.5071	1.5747	AVRG		0.71877		1.3913	8	15	0.05	0.99	
Terphenyl-d14	0.9554	0.9851	1.0067	1.0248	1.0466	1.0897	1.1118	AVRG		0.96951		1.0314	5	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-7	0.200	-5	0.500	-4	1.000	-1	2.000	1	5.000	4	10.00	12
2-Methylnaphthalene	0.100	-11	0.200	-9	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	17
Acenaphthylene	0.100	-13	0.200	-8	0.500	-5	1.000	0	2.000	1	5.000	10	10.00	17
Acenaphthene	0.100	-11	0.200	-6	0.500	-5	1.000	-2	2.000	0	5.000	8	10.00	15
Fluorene	0.100	-11	0.200	-8	0.500	-7	1.000	-2	2.000	1	5.000	9	10.00	18
Phenanthrene	0.100	-8	0.200	-5	0.500	-6	1.000	-3	2.000	0	5.000	7	10.00	15
Anthracene	0.100	-15	0.200	-9	0.500	-6	1.000	-1	2.000	2	5.000	11	10.00	19
Fluoranthene	0.100	-13	0.200	-8	0.500	-7	1.000	-1	2.000	1	5.000	10	10.00	18
Pyrene	0.100	-8	0.200	-6	0.500	-3	1.000	-1	2.000	2	5.000	6	10.00	8
Benzo(a)anthracene	0.100	-9	0.200	-5	0.500	-4	1.000	-1	2.000	3	5.000	6	10.00	9
Chrysene	0.100	-8	0.200	-3	0.500	-2	1.000	0	2.000	2	5.000	5	10.00	6
Benzo(b)fluoranthene	0.100	-14	0.200	-7	0.500	-6	1.000	0	2.000	2	5.000	12	10.00	14
Benzo(k)fluoranthene	0.100	-13	0.200	-9	0.500	-4	1.000	0	2.000	3	5.000	10	10.00	13
Benzo(a)pyrene	0.100	-15	0.200	-11	0.500	-7	1.000	-1	2.000	4	5.000	13	10.00	18
Indeno(1,2,3-cd)pyrene	0.100	-18	0.200	-11	0.500	-8	1.000	0	2.000	4	5.000	14	10.00	18
Dibenz(a,h)anthracene	0.100	-20	0.200	-12	0.500	-9	1.000	-1	2.000	4	5.000	15	10.00	23
Benzo(g,h,i)perylene	0.100	-15	0.200	-9	0.500	-5	1.000	0	2.000	3	5.000	12	10.00	14
Nitrobenzene-d5	0.100	-12	0.200	-9	0.500	-5	1.000	1	2.000	2	5.000	9	10.00	14
2-Fluorobiphenyl	0.100	-10	0.200	-7	0.500	-5	1.000	-1	2.000	1	5.000	8	10.00	13
Terphenyl-d14	0.100	-7	0.200	-4	0.500	-2	1.000	-1	2.000	1	5.000	6	10.00	8

Analyst: LLH Date: 10/05/07 Reviewer: LW Date: 10/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

577399499001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199248 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Name : 8PAHSIM
Calnum : 577399499001 Cal Date : 04-OCT-2007

ICV 577399499015 (sj415 04-OCT-2007) stds: S6709

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1050	0.9959	1.000	0.9013	ug/mL	-10	20	
2-Methylnaphthalene	0.7218	0.6131	1.000	0.8493	ug/mL	-15	20	
Acenaphthylene	2.0045	1.8534	1.000	0.9246	ug/mL	-8	20	
Acenaphthene	1.1214	1.0220	1.000	0.9114	ug/mL	-9	20	
Fluorene	1.3413	1.2206	1.000	0.9100	ug/mL	-9	20	
Phenanthrene	1.2113	1.0804	1.000	0.8920	ug/mL	-11	20	
Anthracene	1.1097	1.0862	1.000	0.9788	ug/mL	-2	20	m
Fluoranthene	1.3571	1.2300	1.000	0.9064	ug/mL	-9	20	
Pyrene	1.2932	1.2487	1.000	0.9656	ug/mL	-3	20	
Benzo(a)anthracene	1.1285	1.0658	1.000	0.9445	ug/mL	-6	20	
Chrysene	1.1215	1.0593	1.000	0.9445	ug/mL	-6	20	
Benzo(b)fluoranthene	1.3266	1.2480	1.000	0.9407	ug/mL	-6	20	
Benzo(k)fluoranthene	1.3786	1.3256	1.000	0.9615	ug/mL	-4	20	m
Benzo(a)pyrene	1.2531	1.1779	1.000	0.9399	ug/mL	-6	20	
Indeno(1,2,3-cd)pyrene	1.5672	1.4401	1.000	0.9189	ug/mL	-8	20	
Dibenz(a,h)anthracene	1.2427	1.1897	1.000	0.9574	ug/mL	-4	20	
Benzo(g,h,i)perylene	1.3544	1.2837	1.000	0.9478	ug/mL	-5	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 527459966007.1 File : vkf07 Time : 15-NOV-2007 21:24
Cal : 527449989003 Caldate : 08-NOV-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1303	1.1354	1.000	1.005	ug/mL	0	20	0.0500	m
2-Methylnaphthalene	0.7669	0.8028	1.000	1.047	ug/mL	5	20	0.0500	
Acenaphthylene	1.8184	1.9413	1.000	1.068	ug/mL	7	20	0.0500	
Acenaphthene	1.1464	1.1327	1.000	0.9881	ug/mL	-1	20	0.0500	
Fluorene	1.3770	1.3480	1.000	0.9789	ug/mL	-2	20	0.0500	
Phenanthrene	1.2669	1.2922	1.000	1.020	ug/mL	2	20	0.0500	
Anthracene	1.0680	1.1697	1.000	1.095	ug/mL	10	20	0.0500	m
Fluoranthene	1.2936	1.4753	1.000	1.141	ug/mL	14	20	0.0500	
Pyrene	1.4933	1.4017	1.000	0.9387	ug/mL	-6	20	0.0500	
Benzo(a)anthracene	1.2462	1.3706	1.000	1.100	ug/mL	10	20	0.0500	
Chrysene	1.2512	1.3023	1.000	1.041	ug/mL	4	20	0.0500	m
Benzo(b)fluoranthene	1.4752	1.4301	1.000	0.9694	ug/mL	-3	20	0.0500	
Benzo(k)fluoranthene	1.4187	1.3362	1.000	0.9419	ug/mL	-6	20	0.0500	m
Benzo(a)pyrene	1.3057	1.3371	1.000	1.024	ug/mL	2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4260	1.3490	1.000	0.9460	ug/mL	-5	20	0.0500	
Dibenz(a,h)anthracene	1.1616	1.0835	1.000	0.9328	ug/mL	-7	20	0.0500	
Benzo(g,h,i)perylene	1.2153	1.1200	1.000	0.9215	ug/mL	-8	20	0.0500	
Nitrobenzene-d5	0.4478	0.4630	1.000	1.034	ug/mL	3	20	0.0500	
2-Fluorobiphenyl	1.4013	1.4366	1.000	1.025	ug/mL	3	20	0.0500	
Terphenyl-d14	1.0646	0.9665	1.000	0.9078	ug/mL	-9	20	0.0500	

Analyst: LLH Date: 11/16/07 Reviewer: AD Date: 11/16/07

m=manual integration

527459966007.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199248 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 577461426002.1 File : skg02 Time : 16-NOV-2007 10:47
Cal : 577399499001 Caldate : 04-OCT-2007
Standards: S7216

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1050	1.0561	1.000	0.9558	ug/mL	-4	20	0.0500	
2-Methylnaphthalene	0.7218	0.6829	1.000	0.9460	ug/mL	-5	20	0.0500	m
Acenaphthylene	2.0045	2.0590	1.000	1.027	ug/mL	3	20	0.0500	
Acenaphthene	1.1214	1.1720	1.000	1.045	ug/mL	5	20	0.0500	
Fluorene	1.3413	1.4170	1.000	1.057	ug/mL	6	20	0.0500	
Phenanthrene	1.2113	1.1184	1.000	0.9233	ug/mL	-8	20	0.0500	
Anthracene	1.1097	1.0435	1.000	0.9404	ug/mL	-6	20	0.0500	m
Fluoranthene	1.3571	1.2828	1.000	0.9452	ug/mL	-5	20	0.0500	
Pyrene	1.2932	1.2945	1.000	1.001	ug/mL	0	20	0.0500	
Benzo(a)anthracene	1.1285	1.0878	1.000	0.9639	ug/mL	-4	20	0.0500	
Chrysene	1.1215	1.1361	1.000	1.013	ug/mL	1	20	0.0500	m
Benzo(b)fluoranthene	1.3266	1.3409	1.000	1.011	ug/mL	1	20	0.0500	
Benzo(k)fluoranthene	1.3786	1.4967	1.000	1.086	ug/mL	9	20	0.0500	m
Benzo(a)pyrene	1.2531	1.2661	1.000	1.010	ug/mL	1	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.5672	1.4473	1.000	0.9235	ug/mL	-8	20	0.0500	
Dibenz(a,h)anthracene	1.2427	1.1461	1.000	0.9223	ug/mL	-8	20	0.0500	
Benzo(g,h,i)perylene	1.3544	1.2185	1.000	0.8997	ug/mL	-10	20	0.0500	
Nitrobenzene-d5	0.2465	0.2207	1.000	0.8951	ug/mL	-10	20	0.0500	m
2-Fluorobiphenyl	1.3913	1.5676	1.000	1.127	ug/mL	13	20	0.0500	m
Terphenyl-d14	1.0314	0.9872	1.000	0.9571	ug/mL	-4	20	0.0500	

Analyst: LLH Date: 11/16/07 Reviewer: AD Date: 11/16/07

m=manual integration

577461426002.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 527459966

Date : 11/15/07 Reference : vkf07
Sequence : MSBNA03 vkf Analyzed : 11/15/07 21:24

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	40269	7.40	138821	9.03	89096	11.33	147907	13.27	158402	16.72	146627	18.45
		LOWER LIMIT	20135	6.90	69411	8.53	44548	10.83	73954	12.77	79201	16.22	73314	17.95
		UPPER LIMIT	80538	7.90	277642	9.53	178192	11.83	295814	13.77	316804	17.22	293254	18.95
007	CCV	1/5UG/ML	40269	7.40	138821	9.03	89096	11.33	147907	13.27	158402	16.72	146627	18.45
008	BLANK	QC415796	19047 *	7.41	65207 *	9.04	41795 *	11.33	75403	13.28	84493	16.73	71670 *	18.45
009	LCS	QC415797	31496	7.41	108110	9.04	62944	11.33	114738	13.28	126590	16.73	111295	18.45
010	SAMPLE	199089-011	33973	7.41	119124	9.03	80143	11.33	134881	13.27	149171	16.73	133756	18.45
011	SAMPLE	199235-001	30743	7.41	106551	9.04	72698	11.33	121468	13.28	134470	16.73	118382	18.45
012	SAMPLE	199248-002	33409	7.40	114846	9.04	74158	11.33	122293	13.28	132989	16.73	118346	18.46
013	SAMPLE	199254-001	33126	7.40	113895	9.04	74405	11.33	122747	13.28	131600	16.73	117628	18.45
014	SAMPLE	199254-002	31289	7.40	105764	9.04	69739	11.33	110190	13.28	108882	16.73	96325	18.45
015	SAMPLE	199086-001	32995	7.40	113022	9.03	74598	11.33	120738	13.28	130871	16.72	119458	18.45
016	SAMPLE	199086-002	32682	7.40	111899	9.03	74675	11.33	121998	13.28	133410	16.73	119113	18.45
017	MSS	199086-003	32885	7.40	112967	9.03	75057	11.33	121725	13.28	132462	16.73	120613	18.45
018	SAMPLE	199086-004	33541	7.40	114779	9.03	76297	11.33	123962	13.27	132912	16.72	116951	18.45
019	SAMPLE	199086-005	21220	7.42	68769 *	9.06	39490 *	11.36	49257 *	13.31	48203 *	16.76	42349 *	18.49

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 577461426

Date : 11/16/07
Sequence : MSBNA08 skg

Reference : skg02
Analyzed : 11/16/07 10:47

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	45291	9.04	158811	10.64	90359	12.87	156907	14.77	155878	18.34	121515	20.28
		LOWER LIMIT	22646	8.54	79406	10.14	45180	12.37	78454	14.27	77939	17.84	60758	19.78
		UPPER LIMIT	90582	9.54	317622	11.14	180718	13.37	313814	15.27	311756	18.84	243030	20.78
002	CCV	1/5UG/ML	45291	9.04	158811	10.64	90359	12.87	156907	14.77	155878	18.34	121515	20.28
003	BLANK	QC415796	35134	9.05	120739	10.65	66232	12.87	112968	14.78	111339	18.34	90941	20.28
004	SAMPLE	199248-002	36256	9.04	129248	10.65	73750	12.87	126766	14.77	120178	18.34	102800	20.28
005	SAMPLE	199086-002	38098	9.04	136925	10.65	75105	12.87	126570	14.77	126670	18.34	106459	20.28

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527449989

Instrument : MSBNA03 Begun : 11/08/07 11:49
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vk801	TUN	DFTPP/PEM 50UG/ML			11/08/07 11:49	1.0	1	
002	vk802	TUN	DFTPP/PEM 50UG/ML			11/08/07 15:53	1.0	1	
003	vk803	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:04	1.0	1	
004	vk804	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:23	1.0	1	
005	vk805	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:51	1.0	1	
006	vk806	CCV	RTUPDATE - SCAN MODE			11/08/07 18:11	1.0	2	16:BZBF=16
007	vk807	CCV	RTUPDATE - SIM MODE			11/08/07 20:32	1.0	2	16:DIOXANE14=94
008	vk808	TUN	DFTPP/PEM 50UG/ML			11/08/07 21:18	1.0	1	
009	vk809	ICAL	ICAL1			11/08/07 21:39	1.0	3	
010	vk810	ICAL	ICAL2			11/08/07 22:12	1.0	4	
011	vk811	ICAL	ICAL3			11/08/07 22:46	1.0	5	
012	vk812	ICAL	ICAL4			11/08/07 23:21	1.0	6	
013	vk813	ICAL	ICAL5			11/08/07 23:56	1.0	7	
014	vk814	ICAL	ICAL6			11/09/07 00:32	1.0	8	
015	vk815	ICAL	ICAL7			11/09/07 01:04	1.0	2	
016	vk816	ICV	1/10 ICV			11/09/07 01:38	1.0	9	

Analyst: JAJ Date: 11/12/07 Reviewer: LW Date: 11/12/07

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527459966

Instrument : MSBNA03 Begun : 11/15/07 10:06
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vkf01	TUN	DFTPP/PEM 50UG/ML			11/15/07 10:06	1.0	1
002	vkf02	CCV	2/10UG/ML			11/15/07 10:27	1.0	2
003	vkf03	MS	QC415055	Soil	131644	11/15/07 11:53	1.0	3
004	vkf04	MSD	QC415056	Soil	131644	11/15/07 12:27	1.0	3
005	vkf05	SAMPLE	199153-026	Water	131672	11/15/07 13:00	1.0	3
006	vkf06	TUN	DFTPP/PEM 50UG/ML			11/15/07 21:05	1.0	1
007	vkf07	CCV	1/5UG/ML			11/15/07 21:24	1.0	4
008	vkf08	BLANK	QC415796	Soil	131815	11/15/07 22:47	1.0	5
009	vkf09	LCS	QC415797	Soil	131815	11/15/07 23:22	1.0	5
010	vkf10	SAMPLE	199089-011	Soil	131815	11/15/07 23:56	1.0	5
011	vkf11	SAMPLE	199235-001	Soil	131815	11/16/07 00:30	1.0	5
012	vkf12	SAMPLE	199248-002	Soil	131815	11/16/07 01:04	5.0	5
013	vkf13	SAMPLE	199254-001	Soil	131815	11/16/07 01:38	10.0	5
014	vkf14	SAMPLE	199254-002	Soil	131815	11/16/07 02:14	10.0	5
015	vkf15	SAMPLE	199086-001	Soil	131815	11/16/07 02:48	25.0	5
016	vkf16	SAMPLE	199086-002	Soil	131815	11/16/07 03:21	10.0	5
017	vkf17	MSS	199086-003	Soil	131815	11/16/07 03:54	10.0	5
018	vkf18	SAMPLE	199086-004	Soil	131815	11/16/07 04:29	25.0	5
019	vkf19	SAMPLE	199086-005	Soil	131815	11/16/07 05:01	10.0	5
020	vkf20	SAMPLE	199086-006	Soil	131815	11/16/07 05:34	25.0	5

Standards used: 1=S7320 2=S7217 3=S7386 4=S7216 5=S7591

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577399499

Instrument : MSBNA08 Begun : 10/04/07 10:19
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	sj402	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:19	1.0	1
003	sj403	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:39	1.0	1
004	sj404	TUN	DFTPP/PEM 50UG/ML			10/04/07 10:53	1.0	1
005	sj405	CCV	CCV RT CHECK			10/04/07 12:22	1.0	2
006	sj406	CCV	CCV RT CHECK			10/04/07 13:22	1.0	3
007	sj407	TUN	DFTPP			10/04/07 14:02	1.0	1
008	sj408	ICAL	ICAL 1			10/04/07 14:22	1.0	4
009	sj409	ICAL	ICAL 2			10/04/07 14:56	1.0	5
010	sj410	ICAL	ICAL 3			10/04/07 15:30	1.0	3
011	sj411	ICAL	ICAL 4			10/04/07 16:04	1.0	2
012	sj412	ICAL	ICAL 5			10/04/07 16:39	1.0	6
013	sj413	ICAL	ICAL 6			10/04/07 17:12	1.0	7
014	sj414	ICAL	ICAL 7			10/04/07 17:48	1.0	8
015	sj415	ICV	ICV			10/04/07 18:23	1.0	9
016	sj416	TUN	DFTPP			10/04/07 18:58	1.0	1
017	sj417	CCV	CCV 4			10/04/07 19:18	1.0	2
018	sj418	SAMPLE	198013-014	Soil	130099	10/04/07 19:58	1.0	10
019	sj419	BLANK	QC408688	Soil	130099	10/04/07 20:32	1.0	10
020	sj420	LCS	QC408689	Soil	130099	10/04/07 21:07	1.0	10
021	sj421	SAMPLE	198013-016	Soil	130099	10/04/07 21:42	1.0	10
022	sj422	MSS	198013-018	Soil	130099	10/04/07 22:16	1.0	10
023	sj423	MS	QC408690	Soil	130099	10/04/07 22:51	1.0	10
024	sj424	MSD	QC408691	Soil	130099	10/04/07 23:25	1.0	10
025	sj425	SAMPLE	198013-008	Soil	130099	10/04/07 23:59	3.0	10
026	sj426	SAMPLE	198013-017	Soil	130099	10/05/07 00:33	1.0	10
027	sj427	SAMPLE	198013-011	Soil	130099	10/05/07 01:07	1.0	10
028	sj428	SAMPLE	198004-009	Water	130094	10/05/07 01:41	1.0	10

Standards used: 1=S7320 2=S7216 3=S7215 4=S7213 5=S7214 6=S7217 7=S7218 8=S7219 9=S6709 10=S7212

0010C

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 577461426

Instrument : MSBNA08 Begun : 11/16/07 10:26
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	skg01	TUN	DFTPP/PEM 50UG/ML			11/16/07 10:26	1.0	1
002	skg02	CCV	1/5UG/ML			11/16/07 10:47	1.0	2
003	skg03	BLANK	QC415796	Soil	131815	11/16/07 11:30	1.0	3
004	skg04	SAMPLE	199248-002	Soil	131815	11/16/07 12:03	1.0	3
005	skg05	SAMPLE	199086-002	Soil	131815	11/16/07 12:36	1.0	3

Standards used: 1=S7320 2=S7216 3=S7591

: 08107

REPORTING SUMMARY FOR 199248 MSSIM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	MTNP	ACNP	ACNP2	FL	PHAN	ANTH	FLA	PYR	BZAA	CHRY	BBFL	BKFL	BAP	INP1	DBAH	BZHI	NO2	PHEN	PHE2
199248-002	MSBNA03	11/16/07 01:04	5.0																				
199248-002	MSBNA08	11/16/07 12:03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC415796	MSBNA03	11/15/07 22:47	1.0																				
QC415796	MSBNA08	11/16/07 11:30	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC415797	MSBNA03	11/15/07 23:22	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

00195

SAMPLE PREPARATION SUMMARY

Batch # : 131815
Started By : JJB
Method : 3550B
Spike #1 ID : S7612
Prep Date : 15-NOV-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7566
Analysis : 8270-SIM
Finished By : JJB
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
199086-001		Soil	30.19	1	1	0.03312		1				8270-SIM	
199086-002		Soil	30.04	1	1	0.03329		1				8270-SIM	
199086-003		Soil	29.85	1	1	0.0335		1				8270-SIM	mss
199086-004		Soil	29.93	1	1	0.03341		1				8270-SIM	
199086-005		Soil	29.84	1	1	0.03351		1				8270-SIM	
199086-006		Soil	30.2	1	1	0.03311		1				8270-SIM	
199086-007		Soil	30.13	1	1	0.03319		1				8270-SIM	
199086-008		Soil	30.18	1	1	0.03313		1				8270-SIM	
199089-011		Soil	30.02	1	1	0.03331		1				8270-SIM	
199235-001		Soil	30.23	1	1	0.03308		1				8270-SIM	
199248-002		Soil	30.05	1	1	0.03328		1				8270-SIM	
199254-001		Soil	30.01	1	1	0.03332		1				8270-SIM	
199254-002		Soil	30.23	1	1	0.03308		1				8270-SIM	
QC415796	BLANK	Soil	30.09	1	1	0.03323		1				8270-SIM	
QC415797	LCS	Soil	30.06	1	1	0.03327		1	1			8270-SIM	
QC415798	MS	Soil	30.23	1	1	0.03308		1	1			8270-SIM	
QC415799	MSD	Soil	30.16	1	1	0.03316		1	1			8270-SIM	

LLH 11/16/07 : MS/MSD not analyzed, will be DO at 10X due to DV matrix.

Analyst: LLH Date: 11/16/07 Reviewer: AD Date: 11/16/07

00109

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 14 **BK 2614**

LIMS Batch No: 131815
LIMS Analysis 8270-SLM
Date Extracted: 11/15/07

Extraction Method:
☒ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	199086-001A	30.19	1.0		SAMPLE GOT INTO MYCROSYNDER.
	2	30.04			
	3	29.9385			MSS
	4	29.9493			
5	5	29.8930.20			
	6	30.2830.13			
	7	30.13			
	8	30.18			
	199089-011A	30.07			re-X
10	199235-001	30.23			
	199248-002B	30.05			
	199254-001A	30.01			
	2	30.23			
	MB-QC 415796	30.09			
15	LCS 7	30.06			
	MS 8	30.23			
	MSD 9	30.16			
20					
					JSB 11/15/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM47158737	JSB 11/15/07
1.0 mL of surrogate solution was added to all samples	ST612A	
1.0 mL of matrix spiking solution was added to all spikes	ST566A	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM47177	
Acetone	EM47190	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47073234	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓	↓

11/15/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/16/07
Reviewed by / Date

150 Project Soil Aliquot BK2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199239-004	30.04	PCB		COMP -001,002,003 ALL LETTER A @ 10g. each
↓ -010	30.05			MSS ↓ -005,006,007,008,009 ALL LETTER A @ 20g each
MB	30.08		EM47158737	
LCS	30.08		↓	
MS	30.15		199239-010	
MSD	30.12		↓	
			EEB 11/14/07	
199235-001	50.23	TEHM	aliased 199068-011A	
↓ -002	50.08	↓		-013A
↓ -003	50.10		↓	-020A
			EEB 11/14/07	
199235-001	30.23	SIM 13185	aliased 199068-011A	
			EEB 11/14/07	
199236-001	50.10	TEHM	aliased 199008-014A	
↓ -002	50.13	↓	↓	-018A
			EEB 11/14/07	
199209-001A	30.01	PCB		
-002	30.05	↓		
-003 ↓	30.25			
			EEB 11/14/07	
199146-039A	50.19 ~~TEHM~~ EEB 11/14	TEHM		
				EEB 11/14
199190-001A	50.16	TEHM		
↓ -002 ↓	50.25	↓		
↓ -003 ↓	50.10			
			EEB 11/14/07	
199206-001A	50.03	TEHM		
↓ -002 ↓	50.28	↓		
↓ -003 ↓	50.36			
			EEB 11/14/07	
198829-001A	30.17	~~6100 5270~~ STHM		
↓ -002	30.07	↓		
↓ -003	30.00			
↓ -004 ↓	30.10			
			EEB 11/14/07	

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK 2588 155

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH#	COMMENTS
199292-001B	50.24	8270		
				CCB 11/15/07- MSS
199086-003A	29.85	8270-SIM	131815	EMU7158737
MB	30.09			↓
LCS	30.06			199086-003A
MS	30.23			↓
MSD	30.16			
199086-001A	30.19			
002	30.04			
004	29.93			
005	29.84			
006	30.20			
007	30.13			
008	30.18			
				RFW for JJB 11/15/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquat

Continued from Page

Bk 2588 151

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
199193-001A	50.18	TEHM		
				EQB 11/14/07
199205-001A	30.05	8270		
↓ -002 ↓	30.28	↓		
				EQB 11/14/07
199089-011A	30.02	SIM	131815	
				EQB 11/14/07
199103-001A	30.14	PCB		
↓ -002	30.04	↓		
-003	30.19			
-004	30.12			
-005	30.00			
-006	30.01			
-007	30.18			
↓ -008 ↓	30.09	↓		
				EQB 11/14/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project 3011 Aliquot BK 2588 153

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENT
199146-~~003~~037A	50.00	TEHM		
↓ - 038A	50.02			
MB ~~-03~~ EQB 11/15	50.39			EM47150737 ~~199146~~ EQB 11/15/07
LCS	50.36			↓
MS	50.21			199146-017A
MSD	50.06	↓		↓
				EQB 11/15/07
199248-002B	30.05	SIM	131815	
				EQB 11/15/07
199254-001A	30.01	SIM		
↓ -002 ↓	30.23	↓	↓	
				EQB 11/15/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd

Metals
(Soil)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	199248	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio--Ex Area 3
Field ID:	1065EX367[4.0]	Sampled:	11/14/07
Lab ID:	199248-002	Received:	11/14/07
Matrix:	Soil	Prepared:	11/15/07
Units:	mg/Kg	Analyzed:	11/15/07
Basis:	dry		

Moisture: 9%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prep	Analysis
Antimony	2.8	0.55	0.088	1.000	131816	EPA 3050B	EPA 6010B
Arsenic	ND	0.29	0.097	1.000	131816	EPA 3050B	EPA 6010B
Barium	43	0.27	0.022	1.000	131816	EPA 3050B	EPA 6010B
Beryllium	0.19	0.11	0.0024	1.000	131816	EPA 3050B	EPA 6010B
Cadmium	0.22 J	0.27	0.024	1.000	131816	EPA 3050B	EPA 6010B
Chromium	6.6	0.27	0.029	1.000	131816	EPA 3050B	EPA 6010B
Cobalt	21	0.27	0.021	1.000	131816	EPA 3050B	EPA 6010B
Copper	49	0.29	0.097	1.000	131816	EPA 3050B	EPA 6010B
Lead	ND	0.19	0.062	1.000	131816	EPA 3050B	EPA 6010B
Mercury	7.7	0.41	0.097	20.00	131781	METHOD	EPA 7471A
Molybdenum	ND	0.27	0.051	1.000	131816	EPA 3050B	EPA 6010B
Nickel	15	0.27	0.024	1.000	131816	EPA 3050B	EPA 6010B
Selenium	1.7	0.55	0.048	1.000	131816	EPA 3050B	EPA 6010B
Silver	ND	0.27	0.058	1.000	131816	EPA 3050B	EPA 6010B
Thallium	ND	0.55	0.086	1.000	131816	EPA 3050B	EPA 6010B
Vanadium	140	0.27	0.030	1.000	131816	EPA 3050B	EPA 6010B
Zinc	53	1.1	0.036	1.000	131816	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC415649	Batch#:	131781
Matrix:	Soil	Prepared:	11/15/07
Units:	mg/Kg	Analyzed:	11/15/07

Result	RL	MDL
ND	0.020	0.0047

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

13.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC415800	Batch#:	131816
Matrix:	Soil	Prepared:	11/15/07
Units:	mg/Kg	Analyzed:	11/15/07
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.087
Arsenic	ND	0.29	0.096
Barium	ND	0.25	0.022
Beryllium	0.0057 J	0.10	0.0024
Cadmium	ND	0.25	0.024
Chromium	ND	0.25	0.029
Cobalt	ND	0.25	0.021
Copper	ND	0.29	0.096
Lead	ND	0.19	0.062
Molybdenum	ND	0.25	0.051
Nickel	0.037 J	0.25	0.024
Selenium	0.062 J	0.50	0.047
Silver	ND	0.25	0.057
Thallium	ND	0.50	0.086
Vanadium	ND	0.25	0.030
Zinc	ND	1.0	0.036

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

14.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	131781
Units:	mg/Kg	Prepared:	11/15/07
Basis:	as received	Analyzed:	11/15/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC415650	0.5000	0.5140	103	75-125		
BSD	QC415651	0.5000	0.5120	102	75-125	0	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	131816
Units:	mg/Kg	Prepared:	11/15/07
Basis:	as received	Analyzed:	11/15/07
Diln Fac:	1.000		

Type: BS Lab ID: QC415801

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	86.96	87	75-125
Arsenic	50.00	50.43	101	75-125
Barium	100.0	98.87	99	75-125
Beryllium	2.500	2.577	103	75-125
Cadmium	10.00	10.04	100	75-125
Chromium	100.0	97.43	97	75-125
Cobalt	25.00	23.99	96	75-125
Copper	12.50	12.52	100	75-125
Lead	100.0	97.69	98	75-125
Molybdenum	20.00	21.11	106	75-125
Nickel	25.00	24.31	97	75-125
Selenium	50.00	49.89	100	75-125
Silver	10.00	9.438	94	75-125
Thallium	50.00	48.83	98	75-125
Vanadium	25.00	24.43	98	75-125
Zinc	25.00	24.40	98	75-125

Type: BSD Lab ID: QC415802

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	79.88	80	75-125	8	30
Arsenic	50.00	45.71	91	75-125	10	30
Barium	100.0	89.69	90	75-125	10	30
Beryllium	2.500	2.322	93	75-125	10	30
Cadmium	10.00	9.140	91	75-125	9	30
Chromium	100.0	88.58	89	75-125	10	30
Cobalt	25.00	21.67	87	75-125	10	30
Copper	12.50	11.37	91	75-125	10	30
Lead	100.0	87.88	88	75-125	11	30
Molybdenum	20.00	19.10	95	75-125	10	30
Nickel	25.00	22.08	88	75-125	10	30
Selenium	50.00	44.87	90	75-125	11	30
Silver	10.00	8.671	87	75-125	8	30
Thallium	50.00	44.17	88	75-125	10	30
Vanadium	25.00	22.31	89	75-125	9	30
Zinc	25.00	22.08	88	75-125	10	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	131781
MSS Lab ID:	199202-001	Sampled:	11/12/07
Matrix:	Soil	Received:	11/13/07
Units:	mg/Kg	Prepared:	11/15/07
Basis:	as received	Analyzed:	11/15/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC415653	0.03660	0.5102	0.5531	101	75-125		
MSD	QC415654		0.3676	0.4257	106	75-125	4	35

RPD= Relative Percent Difference

17.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX367[4.0]	Batch#:	131816
MSS Lab ID:	199248-002	Sampled:	11/14/07
Matrix:	Soil	Received:	11/14/07
Units:	mg/Kg	Prepared:	11/15/07
Basis:	dry	Analyzed:	11/15/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC415803

Moisture: 9%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.814	98.12	39.61	38 *	75-125
Arsenic	<0.09677	49.06	38.58	79	75-125
Barium	42.98	98.12	97.42	55 *	75-125
Beryllium	0.1870	2.453	2.029	75	75-125
Cadmium	0.2200	9.812	7.427	73 *	75-125
Chromium	6.587	98.12	76.23	71 *	75-125
Cobalt	20.99	24.53	32.33	46 *	75-125
Copper	48.66	12.26	59.58	89 P	75-125
Lead	<0.06235	98.12	68.53	70 *	75-125
Molybdenum	<0.05118	19.62	14.36	73 *	75-125
Nickel	15.33	24.53	32.12	68 *	75-125
Selenium	1.731	49.06	36.43	71 *	75-125
Silver	<0.05763	9.812	7.267	74 *	75-125
Thallium	<0.08631	49.06	32.88	67 *	75-125
Vanadium	141.7	24.53	120.1	-88 NM	75-125
Zinc	52.66	24.53	76.88	99 P	75-125

Type: MSD
Lab ID: QC415804

Moisture: 9%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	105.7	45.27	40 *	75-125	6	30
Arsenic	52.83	42.80	81	75-125	3	30
Barium	105.7	118.1	71 *	75-125	14	30
Beryllium	2.642	2.297	80	75-125	5	30
Cadmium	10.57	8.143	75	75-125	2	30
Chromium	105.7	88.15	77	75-125	8	30
Cobalt	26.42	36.11	57 *	75-125	7	30
Copper	13.21	49.85	9 * P	75-125	19	30
Lead	105.7	84.34	80	75-125	13	30
Molybdenum	21.13	16.46	78	75-125	6	30
Nickel	26.42	36.13	79	75-125	7	30
Selenium	52.83	41.23	75	75-125	5	30
Silver	10.57	8.191	78	75-125	5	30
Thallium	52.83	36.46	69 *	75-125	3	30
Vanadium	26.42	130.5	-42 NM	75-125	7	30
Zinc	26.42	75.09	85 P	75-125	5	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	131781
MSS Lab ID:	199202-001	Sampled:	11/12/07
Lab ID:	QC415652	Received:	11/13/07
Matrix:	Soil	Analyzed:	11/15/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	% Diff	Lim
0.03660	0.02000	ND	0.1000	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

16.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX367[4.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	199248-002	Batch#:	131816
Lab ID:	QC415805	Sampled:	11/14/07
Matrix:	Soil	Received:	11/14/07
Units:	mg/Kg	Analyzed:	11/15/07

Moisture: 9%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	2.814	0.5495	ND	1.318	NC	10
Arsenic	ND	0.2903	ND	1.452	NC	10
Barium	42.98	0.2747	48.68	1.260	13 *	10
Beryllium	0.1870	0.1099	0.2497 J	0.5041	33 *	10
Cadmium	0.2200	0.2747	0.3378 J	1.260	NC	10
Chromium	6.587	0.2747	7.464	1.260	13 *	10
Cobalt	20.99	0.2747	24.94	1.260	19 *	10
Copper	48.66	0.2905	50.81	1.452	4	10
Lead	ND	0.1871	ND	0.9353	NC	10
Molybdenum	ND	0.2747	ND	1.260	NC	10
Nickel	15.33	0.2747	17.99	1.260	17 *	10
Selenium	1.731	0.5495	1.647	1.260	NC	10
Silver	ND	0.2747	ND	1.260	NC	10
Thallium	ND	0.5495	1.722	1.295	NC	10
Vanadium	141.7	0.2747	154.7	1.260	9	10
Zinc	52.66	1.099	62.89	5.041	19 *	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum : 97459921214
File : 111507rrrr
IDF : 1.0
Lab ID : 199248-002
Matrix : Soil
Batch : 131816
Time : 15-NOV-2007 23:21
Cal : 97459921001
Units : ug/L

Type : PDS
Inst : MET09
Seqnum : 97459921219
File : 111507rrrr
IDF : 1.0
Lab ID : QC415806
Matrix : Soil
Batch : 131816
Time : 15-NOV-2007 23:33
Cal : 97459921001

MSS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF
PDS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	55.83	A	2000	1642	A	79	75-125	u
Arsenic	ND	A	1000	880.1	A	88	75-125	u **y**
Barium	852.7	A	2000	2421	A	78	75-125	u
Beryllium	3.710	A	50.00	48.09	A	89	75-125	u
Cadmium	4.365	A	200.0	173.0	A	84	75-125	u
Chromium	130.7	A	2000	1812	A	84	75-125	u
Cobalt	416.4	A	500.0	793.7	A	75	75-125	u
Copper	965.2	A	250.0	1127	A	**65***	75-125	u
Lead	ND	A	2000	1586	A	79	75-125	u
Molybdenum	ND	A	400.0	331.6	A	83	75-125	u
Nickel	304.1	A	500.0	687.3	A	77	75-125	u
Potassium	1680	R	10000	11340	R	97	75-125	u
Selenium	34.35	A	1000	928.4	A	89	75-125	u
Silver	ND	A	200.0	177.7	A	89	75-125	u
Sodium	16780	R	20000	36680	R	99	75-125	u
Thallium	ND	A	1000	754.1	A	75	75-125	u
Vanadium	2811	A	500.0	3081	A	54	75-125	: u
Zinc	1045	A	500.0	1425	A	76	75-125	u
Boron	1339	A	1000	2187	A	85	75-125	u
Tin	ND	A	1000	762.4	A	76	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3115297	2916955	-6.37

:=recovery not meaningful u=use y=RL raised

97459921219

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 97459921001
Units : ug/L

Date : 15-NOV-2007 09:21
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111507rrrr	97459921002	CRIM08	15-NOV-2007 09:25	S7555
L2	111507rrrr	97459921003	CS100	15-NOV-2007 09:29	S7382
L3	111507rrrr	97459921004	CS1K	15-NOV-2007 09:32	S7381
L4	111507rrrr	97459921005	CS10K	15-NOV-2007 09:34	S7383
L5	111507rrrr	97459921006	CS100K	15-NOV-2007 09:37	S7674

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	23.662	20.396	20.285	20.927		LOR0	0.00000	0.04780		21.317	1.000	0.995	
Arsenic	A	9.6563	11.742	12.003	12.201		LOR0	0.00000	0.08197		11.401	1.000	0.995	
Barium	A	117.55	110.69	108.99	108.38		LOR0	0.00000	0.00923		111.40	1.000	0.995	
Beryllium	A	5079.7	5116.7	5098.3			LOR0	0.00000	1.96E-4		5098.2	1.000	0.995	
Boron	A	220.89		223.42	233.36		LOR0	0.00000	0.00429		225.89	1.000	0.995	
Cadmium	A	205.29	198.32	201.25	198.45		LOR0	0.00000	0.00504		200.83	1.000	0.995	
Chromium	A	185.96	198.99	196.44	197.65		LOR0	0.00000	0.00506		194.76	1.000	0.995	
Cobalt	A	67.388	64.568	65.261	65.603		LOR0	0.00000	0.01524		65.705	1.000	0.995	
Copper	A	194.75	206.59	206.25	206.77		LOR0	0.00000	0.00484		203.59	1.000	0.995	
Lead	A	57.024	65.290	65.054	64.622		LOR0	0.00000	0.01547		62.998	1.000	0.995	
Manganese	A	601.90	586.49	577.92	560.35		LOR0	0.00000	0.00178		581.67	1.000	0.995	
Molybdenum	A	50.917	49.986	48.067	47.911		LOR0	0.00000	0.02087		49.220	1.000	0.995	
Nickel	A	99.997	97.998	98.805	99.570		LOR0	0.00000	0.01004		99.092	1.000	0.995	
Selenium	A	26.582	16.078	15.686	16.435		LOR0	0.00000	0.06087		18.695	1.000	0.995	
Silver	A	573.34	573.77	567.04	582.45		LOR0	0.00000	0.00173		574.15	1.000	0.995	
Thallium	A	14.669	12.695	12.357	12.320		LOR0	0.00000	0.08116		13.010	1.000	0.995	
Tin	A	21.047	21.221	22.347	22.870		LOR0	0.00000	0.04374		21.871	1.000	0.995	
Titanium	A	790.84	833.28	824.50	818.77		LOR0	0.00000	0.00122		816.85	1.000	0.995	
Vanadium	A	225.99	233.84	232.82	238.71		LOR0	0.00000	0.00419		232.84	1.000	0.995	
Zinc	A	155.94	106.33	97.506	99.128		LOR0	0.00000	0.01009		114.72	1.000	0.995	
Aluminum	R	1.0853		0.7423	0.7957	0.7733	LOR0	0.00000	1.29287		0.8491	1.000	0.995	
Calcium	R	11.032		9.0701	9.0077	8.5466	LOR0	0.00000	0.11694		9.4142	1.000	0.995	
Iron	R	2.9409		2.6750	2.7456	2.6244	LOR0	0.00000	0.38087		2.7465	1.000	0.995	
Magnesium	R	1.3929		1.3474	1.3825	1.3126	LOR0	0.00000	0.76143		1.3588	1.000	0.995	
Potassium	R	3.0780		2.9521	2.6381	2.5359	LOR0	0.00000	0.39418		2.8010	1.000	0.995	
Sodium	R	291.65		301.45	299.71	282.66	LOR0	0.00000	0.00354		293.87	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	13	100.0	-3	1000	-3	10000	0		
Arsenic	A	5.000	-21	100.0	-4	1000	-2	10000	0		
Barium	A	5.000	8	100.0	2	1000	1	10000	0		
Beryllium	A	2.000	0	100.0	0	1000	0				
Boron	A	100.0	-5			1000	-4	10000	0		
Cadmium	A	5.000	3	100.0	0	1000	1	10000	0		
Chromium	A	5.000	-6	100.0	1	1000	-1	10000	0		
Cobalt	A	5.000	3	100.0	-2	1000	-1	10000	0		
Copper	A	5.000	-6	100.0	0	1000	0	10000	0		
Lead	A	3.000	-12	100.0	1	1000	1	10000	0		
Manganese	A	5.000	7	100.0	5	1000	3	10000	0		
Molybdenum	A	5.000	6	100.0	4	1000	0	10000	0		
Nickel	A	5.000	0	100.0	-2	1000	-1	10000	0		
Selenium	A	5.000	62	100.0	-2	1000	-5	10000	0		
Silver	A	5.000	-1	100.0	-1	1000	-2	2000	1		
Thallium	A	5.000	19	100.0	3	1000	0	10000	0		
Tin	A	40.00	-8	100.0	-7	1000	-2	10000	0		
Titanium	A	10.00	-3	100.0	2	1000	1	10000	0		
Vanadium	A	5.000	-5	100.0	-2	1000	-2	10000	0		
Zinc	A	20.00	57	100.0	7	1000	-2	10000	0		
Aluminum	R	100.0	40			1000	-4	10000	3	100000	0
Calcium	R	200.0	29			1000	6	10000	5	100000	0
Iron	R	100.0	12			1000	2	10000	5	100000	0
Magnesium	R	200.0	6			1000	3	10000	5	100000	0
Potassium	R	500.0	21			1000	16	10000	4	100000	0
Sodium	R	500.0	3			1000	7	10000	6	100000	0

strument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

97459921001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/15/2007 9:21:48 AM
Data Type: Reprocessed on 11/15/2007 10:57:43 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	164.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1471.9	331.83	22.54%	[0.00]	ug/L
Al 308.215 R	86.5	10.10	11.67%	[0.00]	ug/L
As 188.979	-53.4	14.04	26.31%	[0.00]	ug/L
B 249.677	-3029.8	25.42	0.84%	[0.00]	ug/L
Ba 233.527	-96.8	2.48	2.56%	[0.00]	ug/L
Be 313.107	2917.0	218.34	7.49%	[0.00]	ug/L
Ca 315.887 R	242.7	19.02	7.84%	[0.00]	ug/L
Cd 214.440	-37.4	7.58	20.27%	[0.00]	ug/L
Co 228.616	-59.2	7.49	12.67%	[0.00]	ug/L
Cr 267.716	-76.3	3.03	3.97%	[0.00]	ug/L
Cu 324.752	2409.2	46.01	1.91%	[0.00]	ug/L
Fe 238.204 R	-384.7	2.53	0.66%	[0.00]	ug/L
K 766.490 R	-331.6	338.01	101.92%	[0.00]	ug/L
Mg 279.077 R	-53.2	4.07	7.66%	[0.00]	ug/L
Mn 257.610	-23.0	17.13	74.34%	[0.00]	ug/L
Mo 202.031	-50.3	5.23	10.40%	[0.00]	ug/L
Na 589.592 R	2709.5	973.11	35.91%	[0.00]	ug/L
Ni 231.604	908.1	15.73	1.73%	[0.00]	ug/L
Pb 220.353	-604.7	38.61	6.39%	[0.00]	ug/L
Sb 206.836	-506.1	84.46	16.69%	[0.00]	ug/L
Se 196.026	-181.3	29.86	16.47%	[0.00]	ug/L
Ti 334.940 R	0.7	38.21	>999.9%	[0.00]	ug/L
Tl 190.801	23.0	7.30	31.73%	[0.00]	ug/L
V 292.402	-1760.9	46.23	2.63%	[0.00]	ug/L
Zn 206.200	-14.4	7.06	48.92%	[0.00]	ug/L
Sn 189.927	-5.3	9.53	180.29%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/15/2007 9:25:41 AM
Data Type: Reprocessed on 11/15/2007 10:57:44 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	164.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3115297.4	13382.19	0.43%	100.0	%
Y	250670.4	4570.27	1.82%	100.0	%
Ag 328.068†	2866.7	361.85	12.62%	[5.0]	ug/L
Al 308.215 R†	108.5	2.99	2.76%	[100]	ug/L
As 188.979†	48.3	13.54	28.04%	[5.0]	ug/L
B 249.677†	22088.6	52.13	0.24%	[100]	ug/L
Ba 233.527†	587.8	5.15	0.88%	[5.0]	ug/L
Be 313.107†	10159.4	178.50	1.76%	[2.0]	ug/L
Ca 315.887 R†	2206.4	64.02	2.90%	[200]	ug/L
Cd 214.440†	1026.5	8.06	0.78%	[5.0]	ug/L
Co 228.616†	336.9	1.22	0.36%	[5.0]	ug/L
Cr 267.716†	929.8	12.70	1.37%	[5.0]	ug/L
Cu 324.752†	973.8	139.72	14.35%	[5.0]	ug/L
Fe 238.204 R†	294.1	4.58	1.56%	[100]	ug/L
K 766.490 R†	1539.0	133.72	8.69%	[500]	ug/L
Mg 279.077 R†	278.6	3.47	1.25%	[200]	ug/L
Mn 257.610†	3009.5	24.40	0.81%	[5.0]	ug/L
Mo 202.031†	254.6	9.65	3.79%	[5.0]	ug/L
Na 589.592 R†	145824.1	4008.37	2.75%	[500]	ug/L
Ni 231.604†	500.0	15.89	3.18%	[5.0]	ug/L
Pb 220.353†	171.1	47.23	27.61%	[3.0]	ug/L
Sb 206.836†	118.3	65.49	55.35%	[5.0]	ug/L
Se 196.026†	132.9	2.73	2.06%	[5.0]	ug/L
Ti 334.940 R†	7908.4	70.60	0.89%	[10]	ug/L
Tl 190.801†	73.3	1.87	2.54%	[5.0]	ug/L
V 292.402†	1130.0	16.82	1.49%	[5.0]	ug/L
Zn 206.200†	3118.8	22.32	0.72%	[20]	ug/L
Sn 189.927†	841.9	8.51	1.01%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/15/2007 9:29:38 AM
Data Type: Reprocessed on 11/15/2007 10:57:45 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	165.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3124204.4	17351.70	0.56%	100.3	%
Y	258530.1	1822.68	0.71%	103.1	%
Ag 328.068†	57376.6	946.42	1.65%	[100]	ug/L
As 188.979†	1174.2	10.18	0.87%	[100]	ug/L
Ba 233.527†	11069.0	77.58	0.70%	[100]	ug/L
Be 313.107†	511668.1	1347.09	0.26%	[100]	ug/L
Cd 214.440†	19832.5	97.68	0.49%	[100]	ug/L
Co 228.616†	6456.8	38.32	0.59%	[100]	ug/L
Cr 267.716†	19899.1	108.71	0.55%	[100]	ug/L
Cu 324.752†	20659.4	101.51	0.49%	[100]	ug/L
Mn 257.610†	58648.8	263.05	0.45%	[100]	ug/L
Mo 202.031†	4998.6	19.86	0.40%	[100]	ug/L
Ni 231.604†	9799.8	66.67	0.68%	[100]	ug/L
Pb 220.353†	6529.0	76.15	1.17%	[100]	ug/L
Sb 206.836†	2039.6	36.85	1.81%	[100]	ug/L
Se 196.026†	1607.8	43.06	2.68%	[100]	ug/L
Ti 334.940 R†	83328.4	339.68	0.41%	[100]	ug/L
Tl 190.801†	1269.5	3.18	0.25%	[100]	ug/L
V 292.402†	23384.2	190.50	0.81%	[100]	ug/L
Zn 206.200†	10632.6	80.73	0.76%	[100]	ug/L
Sn 189.927†	2122.1	8.96	0.42%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/15/2007 9:32:35 AM
Data Type: Reprocessed on 11/15/2007 10:57:46 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	165.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3160431.9	10634.38	0.34%	101.4	%
Y	267274.8	4320.22	1.62%	106.6	%
Ag 328.068†	567037.5	3647.50	0.64%	[1000]	ug/L
Al 308.215 R†	742.3	16.93	2.28%	[1000]	ug/L
As 188.979†	12002.7	61.10	0.51%	[1000]	ug/L
B 249.677†	223420.9	1348.67	0.60%	[1000]	ug/L
Ba 233.527†	108992.5	389.82	0.36%	[1000]	ug/L
Be 313.107†	5098338.4	25384.62	0.50%	[1000]	ug/L
Ca 315.887 R†	9070.1	220.53	2.43%	[1000]	ug/L
Cd 214.440†	201253.8	676.92	0.34%	[1000]	ug/L
Co 228.616†	65261.0	238.56	0.37%	[1000]	ug/L
Cr 267.716†	196438.4	889.03	0.45%	[1000]	ug/L
Cu 324.752†	206254.3	915.60	0.44%	[1000]	ug/L
Fe 238.204 R†	2675.0	40.89	1.53%	[1000]	ug/L
K 766.490 R†	2952.1	270.01	9.15%	[1000]	ug/L
Mg 279.077 R†	1347.4	39.34	2.92%	[1000]	ug/L
Mn 257.610†	577921.6	2303.97	0.40%	[1000]	ug/L
Mo 202.031†	48067.3	575.72	1.20%	[1000]	ug/L
Na 589.592 R†	301447.6	2878.63	0.95%	[1000]	ug/L
Ni 231.604†	98804.8	417.41	0.42%	[1000]	ug/L
Pb 220.353†	65053.8	885.31	1.36%	[1000]	ug/L
Sb 206.836†	20284.6	439.61	2.17%	[1000]	ug/L
Se 196.026†	15686.0	411.99	2.63%	[1000]	ug/L
Ti 334.940 R†	824496.8	2958.56	0.36%	[1000]	ug/L
Tl 190.801†	12357.1	93.27	0.75%	[1000]	ug/L
V 292.402†	232815.1	1100.05	0.47%	[1000]	ug/L
Zn 206.200†	97505.7	277.33	0.28%	[1000]	ug/L
Sn 189.927†	22347.2	102.25	0.46%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/15/2007 9:34:44 AM
Data Type: Reprocessed on 11/15/2007 10:57:48 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	166.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3030601.4	32022.83	1.06%	97.28	%
Y	248138.2	583.75	0.24%	98.99	%
Ag 328.068†	1164899.4	11366.59	0.98%	[2000]	ug/L
Al 308.215 R†	7957.3	23.49	0.30%	[10000]	ug/L
As 188.979†	122009.2	1493.70	1.22%	[10000]	ug/L
B 249.677†	2333639.1	8051.21	0.35%	[10000]	ug/L
Ba 233.527†	1083833.5	615.77	0.06%	[10000]	ug/L
Ca 315.887 R†	90076.6	678.89	0.75%	[10000]	ug/L
Cd 214.440†	1984516.9	13596.83	0.69%	[10000]	ug/L
Co 228.616†	656033.7	824.28	0.13%	[10000]	ug/L
Cr 267.716†	1976486.1	1805.89	0.09%	[10000]	ug/L
Cu 324.752†	2067712.7	7581.10	0.37%	[10000]	ug/L
Fe 238.204 R†	27456.4	211.12	0.77%	[10000]	ug/L
K 766.490 R†	26380.5	208.97	0.79%	[10000]	ug/L
Mg 279.077 R†	13824.6	165.67	1.20%	[10000]	ug/L
Mn 257.610†	5603531.4	113007.33	2.02%	[10000]	ug/L
Mo 202.031†	479112.0	9507.43	1.98%	[10000]	ug/L
Na 589.592 R†	2997102.0	25515.41	0.85%	[10000]	ug/L
Ni 231.604†	995699.6	1762.63	0.18%	[10000]	ug/L
Pb 220.353†	646216.9	8061.24	1.25%	[10000]	ug/L
Sb 206.836†	209268.8	1990.37	0.95%	[10000]	ug/L
Se 196.026†	164354.7	2613.44	1.59%	[10000]	ug/L
Ti 334.940 R†	8187701.2	154077.93	1.88%	[10000]	ug/L
Tl 190.801†	123202.3	1610.03	1.31%	[10000]	ug/L
V 292.402†	2387093.9	1152.31	0.05%	[10000]	ug/L
Zn 206.200†	991278.8	2343.88	0.24%	[10000]	ug/L
Sn 189.927†	228698.6	2179.73	0.95%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/15/2007 9:37:52 AM
Data Type: Reprocessed on 11/15/2007 10:57:49 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2873921.1	24956.63	0.87%	92.25	%
Y	257458.9	5788.03	2.25%	102.7	%
Al 308.215 Rt	77325.2	328.97	0.43%	[100000]	ug/L
Ca 315.887 Rt	854664.9	5580.54	0.65%	[100000]	ug/L
Fe 238.204 Rt	262437.8	1949.98	0.74%	[100000]	ug/L
K 766.490 Rt	253586.5	1245.75	0.49%	[100000]	ug/L
Mg 279.077 Rt	131262.0	1525.33	1.16%	[100000]	ug/L
Na 589.592 Rt	28265977.6	986401.73	3.49%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	579.4	0.00000	0.999943	
Al 308.215 R	4	Lin Thru 0	0.0	0.7735	0.00000	0.999996	
As 188.979	4	Lin Thru 0	0.0	12.20	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	233.3	0.00000	0.999991	
Ba 233.527	4	Lin Thru 0	0.0	108.4	0.00000	1.000000	
Be 313.107	3	Lin Thru 0	0.0	5099	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	8.551	0.00000	0.999985	
Cd 214.440	4	Lin Thru 0	0.0	198.5	0.00000	0.999999	
Co 228.616	4	Lin Thru 0	0.0	65.60	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	197.6	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	206.8	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	2.626	0.00000	0.999990	
K 766.490 R	4	Lin Thru 0	0.0	2.537	0.00000	0.999990	
Mg 279.077 R	4	Lin Thru 0	0.0	1.313	0.00000	0.999986	
Mn 257.610	4	Lin Thru 0	0.0	560.5	0.00000	0.999995	
Mo 202.031	4	Lin Thru 0	0.0	47.91	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	282.8	0.00000	0.999982	
Ni 231.604	4	Lin Thru 0	0.0	99.56	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	64.63	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	20.92	0.00000	0.999995	
Se 196.026	4	Lin Thru 0	0.0	16.43	0.00000	0.999990	
Ti 334.940 R	4	Lin Thru 0	0.0	818.8	0.00000	1.000000	
Tl 190.801	4	Lin Thru 0	0.0	12.32	0.00000	1.000000	
V 292.402	4	Lin Thru 0	0.0	238.7	0.00000	0.999997	
Zn 206.200	4	Lin Thru 0	0.0	99.11	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	22.86	0.00000	0.999997	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09
Seqnum : 97459921007
Cal : 97459921001
Standards: S7683

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 09:40

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	21.317	20.910	5000	4997	ug/L	0	10	
Arsenic	A	11.401	12.530	5000	5136	ug/L	3	10	
Barium	A	111.40	108.91	5000	5024	ug/L	0	10	
Beryllium	A	5098.2	5207.2	500.0	510.7	ug/L	2	10	
Boron	A	225.89	237.77	5000	5097	ug/L	2	10	
Cadmium	A	200.83	196.95	5000	4961	ug/L	-1	10	
Chromium	A	194.76	192.26	5000	4864	ug/L	-3	10	
Cobalt	A	65.705	64.118	5000	4876	ug/L	-2	10	
Copper	A	203.59	203.27	5000	4916	ug/L	-2	10	
Lead	A	62.998	64.601	5000	4998	ug/L	0	10	
Manganese	A	581.67	555.53	5000	4955	ug/L	-1	10	
Molybdenum	A	49.220	48.504	5000	5062	ug/L	1	10	
Nickel	A	99.092	97.135	5000	4878	ug/L	-2	10	
Selenium	A	18.695	16.499	5000	5022	ug/L	0	10	
Silver	A	574.15	608.72	1000	1051	ug/L	5	10	
Thallium	A	13.010	12.259	5000	4975	ug/L	-1	10	
Tin	A	21.871	22.664	5000	4956	ug/L	-1	10	
Titanium	A	816.85	803.66	5000	4907	ug/L	-2	10	
Vanadium	A	232.84	233.46	5000	4891	ug/L	-2	10	
Zinc	A	114.72	96.349	5000	4861	ug/L	-3	10	
Aluminum	R	0.8491	0.7130	20000	18440	ug/L	-8	10	
Calcium	R	9.4142	8.0580	20000	18850	ug/L	-6	10	
Iron	R	2.7465	2.4541	20000	18690	ug/L	-7	10	
Magnesium	R	1.3588	1.2632	20000	19240	ug/L	-4	10	
Potassium	R	2.8010	2.3321	20000	18390	ug/L	-8	10	
Sodium	R	293.87	263.06	20000	18600	ug/L	-7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2951471	-5.26

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921008 File : 111507rrrr Time : 15-NOV-2007 09:49
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.207]	5.000	1.074	ug/L	!ib
Arsenic	A	[1.680]	5.000	1.320	ug/L	!ib
Barium	A	[0.3823]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.08165]	2.000	0.04231	ug/L	!ib
Boron	A	[8.223]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.7610]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.3341]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.3423]	5.000	0.3034	ug/L	!ib
Copper	A	[2.560]	5.000	0.8535	ug/L	!ib
Lead	A	[0.7891]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.837]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.4936]	5.000	0.3660	ug/L	!ib
Selenium	A	[3.285]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[3.113]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[2.708]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[7.147]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[83.23]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	3047360	-2.18

!=warning ib=instrument blank

97459921008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09
Seqnum : 97459921009
Cal : 97459921001
Standards: S7557

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 10:06

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[3.148]	5.000	ug/L	
Arsenic	A	[-3.679]	5.000	ug/L	
Barium	A	[-1.373]	5.000	ug/L	
Beryllium	A	[0.1877]	2.000	ug/L	
Boron	A	[23.16]	100.0	ug/L	
Cadmium	A	[2.516]	5.000	ug/L	
Cobalt	A	[-0.6401]	5.000	ug/L	
Lead	A	[1.348]	3.000	ug/L	
Molybdenum	A	[2.691]	5.000	ug/L	
Selenium	A	[3.466]	5.000	ug/L	
Silver	A	[3.062]	5.000	ug/L	
Thallium	A	8.175	5.000	ug/L	
Tin	A	[-4.937]	40.00	ug/L	
Zinc	A	[-0.2714]	20.00	ug/L	
Potassium	R	[77.32]	500.0	ug/L	
Sodium	R	[-45.91]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18570	ug/L	93
Copper	A	20000	20660	ug/L	103
Manganese	A	20000	18770	ug/L	94
Nickel	A	20000	17460	ug/L	87
Titanium	A	20000	19600	ug/L	98
Vanadium	A	20000	19440	ug/L	97
Aluminum	R	500000	488800	ug/L	98
Calcium	R	500000	459700	ug/L	92
Iron	R	200000	181800	ug/L	91
Magnesium	R	500000	471200	ug/L	94

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2495657	-19.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921010 File : 111507rrrr Time : 15-NOV-2007 10:08
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	466.4	ug/L	-7	20	
Arsenic	A	500.0	530.4	ug/L	6	20	
Barium	A	500.0	530.4	ug/L	6	20	
Beryllium	A	500.0	544.1	ug/L	9	20	
Cadmium	A	1000	1002	ug/L	0	20	
Chromium	A	500.0	500.2	ug/L	0	20	
Cobalt	A	500.0	460.4	ug/L	-8	20	
Copper	A	500.0	557.4	ug/L	11	20	
Lead	A	1000	911.3	ug/L	-9	20	
Manganese	A	500.0	537.7	ug/L	8	20	
Molybdenum	A	500.0	534.1	ug/L	7	20	
Nickel	A	1000	943.6	ug/L	-6	20	
Selenium	A	500.0	491.0	ug/L	-2	20	
Silver	A	1000	1087	ug/L	9	20	
Thallium	A	500.0	476.0	ug/L	-5	20	
Titanium	A	20000	19880	ug/L	-1		
Vanadium	A	500.0	532.5	ug/L	7	20	
Zinc	A	1000	997.2	ug/L	0	20	
Aluminum	R	500000	494700	ug/L	-1		
Calcium	R	500000	465200	ug/L	-7		
Iron	R	200000	182100	ug/L	-9		
Magnesium	R	500000	472900	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2540163	-18.46

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921016 File : 111507rrrr Time : 15-NOV-2007 10:54
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	509.2	ug/L	2	20	
Arsenic	A	500.0	520.3	ug/L	4	20	
Barium	A	500.0	530.5	ug/L	6	20	
Beryllium	A	500.0	547.9	ug/L	10	20	
Cadmium	A	1000	995.1	ug/L	0	20	
Chromium	A	500.0	502.3	ug/L	0	20	
Cobalt	A	500.0	459.4	ug/L	-8	20	
Copper	A	500.0	562.9	ug/L	13	20	
Lead	A	1000	900.6	ug/L	-10	20	
Manganese	A	500.0	537.4	ug/L	7	20	
Molybdenum	A	500.0	530.1	ug/L	6	20	
Nickel	A	1000	950.0	ug/L	-5	20	
Selenium	A	500.0	504.8	ug/L	1	20	
Silver	A	1000	1086	ug/L	9	20	
Thallium	A	500.0	484.8	ug/L	-3	20	
Titanium	A	20000	20450	ug/L	2		
Vanadium	A	500.0	534.4	ug/L	7	20	
Zinc	A	1000	1008	ug/L	1	20	
Aluminum	R	500000	499800	ug/L	0		
Calcium	R	500000	470800	ug/L	-6		
Iron	R	200000	182800	ug/L	-9		
Magnesium	R	500000	481300	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2529820	-18.79

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 97459921018
Cal : 97459921001
Standards: S7684

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 11:02

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	21.392	5000	5113	ug/L	2	10	
Arsenic	A	11.401	12.633	5000	5178	ug/L	4	10	
Barium	A	111.40	114.20	5000	5268	ug/L	5	10	
Beryllium	A	5098.2	5391.6	500.0	528.7	ug/L	6	10	
Boron	A	225.89	247.37	5000	5302	ug/L	6	10	
Cadmium	A	200.83	203.35	5000	5123	ug/L	2	10	
Chromium	A	194.76	194.93	5000	4931	ug/L	-1	10	
Cobalt	A	65.705	65.054	5000	4947	ug/L	-1	10	
Copper	A	203.59	212.52	5000	5139	ug/L	3	10	
Lead	A	62.998	64.453	5000	4987	ug/L	0	10	
Manganese	A	581.67	581.79	5000	5190	ug/L	4	10	
Molybdenum	A	49.220	48.965	5000	5110	ug/L	2	10	
Nickel	A	99.092	99.606	5000	5002	ug/L	0	10	
Selenium	A	18.695	16.585	5000	5048	ug/L	1	10	
Silver	A	574.15	602.29	1000	1040	ug/L	4	10	
Thallium	A	13.010	12.447	5000	5051	ug/L	1	10	
Tin	A	21.871	22.677	5000	4959	ug/L	-1	10	
Titanium	A	816.85	839.39	5000	5126	ug/L	3	10	
Vanadium	A	232.84	236.61	5000	4957	ug/L	-1	10	
Zinc	A	114.72	99.409	5000	5015	ug/L	0	10	
Aluminum	R	0.8491	0.7749	20000	20040	ug/L	0	10	
Calcium	R	9.4142	8.7174	20000	20390	ug/L	2	10	
Iron	R	2.7465	2.6239	20000	19990	ug/L	0	10	
Magnesium	R	1.3588	1.3785	20000	20990	ug/L	5	10	
Potassium	R	2.8010	2.4907	20000	19640	ug/L	-2	10	
Sodium	R	293.87	286.97	20000	20290	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2910062	-6.59

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921020 File : 111507rrrr Time : 15-NOV-2007 11:09
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.815]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.4747]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.09607]	2.000	0.04231	ug/L	!ib
Boron	A	[4.731]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.8938]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.3844]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.4891]	5.000	0.3034	ug/L	!ib
Copper	A	[3.114]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.5314]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.146]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.187]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.201]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[2.851]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[12.87]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[71.37]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2992839	-3.93

!=warning ib=instrument blank

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921030 File : 111507rrrr Time : 15-NOV-2007 11:55
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	21.444	5000	5125	ug/L	3	10	
Arsenic	A	11.401	12.612	5000	5169	ug/L	3	10	
Barium	A	111.40	114.27	5000	5271	ug/L	5	10	
Beryllium	A	5098.2	5413.9	500.0	530.9	ug/L	6	10	
Boron	A	225.89	248.62	5000	5329	ug/L	7	10	
Cadmium	A	200.83	205.94	5000	5188	ug/L	4	10	
Chromium	A	194.76	195.28	5000	4940	ug/L	-1	10	
Cobalt	A	65.705	64.779	5000	4926	ug/L	-1	10	
Copper	A	203.59	211.35	5000	5111	ug/L	2	10	
Lead	A	62.998	64.135	5000	4962	ug/L	-1	10	
Manganese	A	581.67	585.50	5000	5223	ug/L	4	10	
Molybdenum	A	49.220	48.904	5000	5103	ug/L	2	10	
Nickel	A	99.092	99.934	5000	5019	ug/L	0	10	
Selenium	A	18.695	16.649	5000	5067	ug/L	1	10	
Silver	A	574.15	603.05	1000	1041	ug/L	4	10	
Thallium	A	13.010	12.406	5000	5035	ug/L	1	10	
Tin	A	21.871	22.698	5000	4964	ug/L	-1	10	
Titanium	A	816.85	839.37	5000	5125	ug/L	3	10	
Vanadium	A	232.84	236.60	5000	4957	ug/L	-1	10	
Zinc	A	114.72	100.63	5000	5076	ug/L	2	10	
Aluminum	R	0.8491	0.7521	20000	19450	ug/L	-3	10	
Calcium	R	9.4142	8.5187	20000	19920	ug/L	0	10	
Iron	R	2.7465	2.5692	20000	19570	ug/L	-2	10	
Magnesium	R	1.3588	1.3513	20000	20580	ug/L	3	10	
Potassium	R	2.8010	2.4112	20000	19010	ug/L	-5	10	
Sodium	R	293.87	271.66	20000	19210	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2904590	-6.76

97459921030

: 0041 11 1

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97459921032
Cal : 97459921001
File : 111507rrrr
Caldate : 15-NOV-2007
IDF : 1.0
Time : 15-NOV-2007 12:02

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.8052]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.08032]	2.000	0.04231	ug/L	!ib
Boron	A	[7.446]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.282]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.7812]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.9184]	5.000	0.3034	ug/L	!ib
Copper	A	[3.363]	5.000	0.8535	ug/L	!ib
Lead	A	[1.420]	3.000	0.6892	ug/L	!ib
Manganese	A	[0.8615]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.937]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.386]	5.000	0.3660	ug/L	!ib
Selenium	A	[3.149]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.121]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[17.88]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[13.87]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	3002016	-3.64

!=warning ib=instrument blank

97459921032

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921039 File : 111507rrrr Time : 15-NOV-2007 12:25
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	511.3	ug/L	2	20	
Arsenic	A	500.0	536.1	ug/L	7	20	
Barium	A	500.0	547.0	ug/L	9	20	
Beryllium	A	500.0	553.9	ug/L	11	20	
Cadmium	A	1000	997.3	ug/L	0	20	
Chromium	A	500.0	507.7	ug/L	2	20	
Cobalt	A	500.0	478.2	ug/L	-4	20	
Copper	A	500.0	569.4	ug/L	14	20	
Lead	A	1000	942.1	ug/L	-6	20	
Manganese	A	500.0	539.9	ug/L	8	20	
Molybdenum	A	500.0	546.6	ug/L	9	20	
Nickel	A	1000	960.2	ug/L	-4	20	
Selenium	A	500.0	516.6	ug/L	3	20	
Silver	A	1000	1083	ug/L	8	20	
Thallium	A	500.0	493.8	ug/L	-1	20	
Titanium	A	20000	20480	ug/L	2		
Vanadium	A	500.0	539.4	ug/L	8	20	
Zinc	A	1000	1041	ug/L	4	20	
Aluminum	R	500000	514500	ug/L	3		
Calcium	R	500000	496500	ug/L	-1		
Iron	R	200000	188600	ug/L	-6		
Magnesium	R	500000	501000	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2555465	-17.97

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921041 File : 111507rrrr Time : 15-NOV-2007 12:32
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	21.578	5000	5157	ug/L	3	10	
Arsenic	A	11.401	12.652	5000	5186	ug/L	4	10	
Barium	A	111.40	113.19	5000	5221	ug/L	4	10	
Beryllium	A	5098.2	5342.6	500.0	523.9	ug/L	5	10	
Boron	A	225.89	244.68	5000	5245	ug/L	5	10	
Cadmium	A	200.83	198.12	5000	4991	ug/L	0	10	
Chromium	A	194.76	193.06	5000	4884	ug/L	-2	10	
Cobalt	A	65.705	65.409	5000	4974	ug/L	-1	10	
Copper	A	203.59	211.42	5000	5113	ug/L	2	10	
Lead	A	62.998	64.866	5000	5019	ug/L	0	10	
Manganese	A	581.67	571.77	5000	5100	ug/L	2	10	
Molybdenum	A	49.220	49.241	5000	5139	ug/L	3	10	
Nickel	A	99.092	98.513	5000	4947	ug/L	-1	10	
Selenium	A	18.695	16.740	5000	5095	ug/L	2	10	
Silver	A	574.15	602.68	1000	1040	ug/L	4	10	
Thallium	A	13.010	12.472	5000	5062	ug/L	1	10	
Tin	A	21.871	22.772	5000	4980	ug/L	0	10	
Titanium	A	816.85	831.69	5000	5079	ug/L	2	10	
Vanadium	A	232.84	234.30	5000	4909	ug/L	-2	10	
Zinc	A	114.72	98.917	5000	4990	ug/L	0	10	
Aluminum	R	0.8491	0.7481	20000	19340	ug/L	-3	10	
Calcium	R	9.4142	8.4111	20000	19670	ug/L	-2	10	
Iron	R	2.7465	2.5077	20000	19100	ug/L	-4	10	
Magnesium	R	1.3588	1.3353	20000	20340	ug/L	2	10	
Potassium	R	2.8010	2.4048	20000	18960	ug/L	-5	10	
Sodium	R	293.87	266.34	20000	18830	ug/L	-6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2928849	-5.98

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921046 File : 111507rrrr Time : 15-NOV-2007 12:55
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	ND	5.000	0.1113	ug/L	
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.1638]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	[2.488]	5.000	0.8535	ug/L	!ib
Lead	A	3.418	3.000	0.6892	ug/L	ib ***
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	ND	5.000	0.4140	ug/L	
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	[2.549]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[4.984]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[13.92]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	3029914	-2.74

!=warning ib=instrument blank

001115

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 97459921048
Cal : 97459921001
Standards: S7324

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 13:07

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	507.5	ug/L	1	20	
Arsenic	A	500.0	525.3	ug/L	5	20	
Barium	A	500.0	535.7	ug/L	7	20	
Beryllium	A	500.0	551.3	ug/L	10	20	
Cadmium	A	1000	981.6	ug/L	-2	20	
Chromium	A	500.0	504.3	ug/L	1	20	
Cobalt	A	500.0	465.0	ug/L	-7	20	
Copper	A	500.0	568.5	ug/L	14	20	
Lead	A	1000	924.9	ug/L	-8	20	
Manganese	A	500.0	535.5	ug/L	7	20	
Molybdenum	A	500.0	535.6	ug/L	7	20	
Nickel	A	1000	954.7	ug/L	-5	20	
Selenium	A	500.0	511.4	ug/L	2	20	
Silver	A	1000	1086	ug/L	9	20	
Thallium	A	500.0	487.8	ug/L	-2	20	
Titanium	A	20000	20300	ug/L	2		
Vanadium	A	500.0	538.3	ug/L	8	20	
Zinc	A	1000	1029	ug/L	3	20	
Aluminum	R	500000	507300	ug/L	1		
Calcium	R	500000	481200	ug/L	-4		
Iron	R	200000	184800	ug/L	-8		
Magnesium	R	500000	492700	ug/L	-1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2580440	-17.17

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 97459921049
Cal : 97459921001
Standards: S7684

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 13:10

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	21.609	5000	5165	ug/L	3	10	
Arsenic	A	11.401	12.583	5000	5157	ug/L	3	10	
Barium	A	111.40	113.53	5000	5237	ug/L	5	10	
Beryllium	A	5098.2	5331.2	500.0	522.8	ug/L	5	10	
Boron	A	225.89	244.16	5000	5233	ug/L	5	10	
Cadmium	A	200.83	196.96	5000	4962	ug/L	-1	10	
Chromium	A	194.76	193.39	5000	4893	ug/L	-2	10	
Cobalt	A	65.705	65.548	5000	4985	ug/L	0	10	
Copper	A	203.59	212.86	5000	5147	ug/L	3	10	
Lead	A	62.998	64.396	5000	4982	ug/L	0	10	
Manganese	A	581.67	574.42	5000	5124	ug/L	2	10	
Molybdenum	A	49.220	48.791	5000	5092	ug/L	2	10	
Nickel	A	99.092	98.096	5000	4926	ug/L	-1	10	
Selenium	A	18.695	16.531	5000	5031	ug/L	1	10	
Silver	A	574.15	604.75	1000	1044	ug/L	4	10	
Thallium	A	13.010	12.492	5000	5070	ug/L	1	10	
Tin	A	21.871	22.606	5000	4943	ug/L	-1	10	
Titanium	A	816.85	838.47	5000	5120	ug/L	2	10	
Vanadium	A	232.84	235.53	5000	4935	ug/L	-1	10	
Zinc	A	114.72	97.696	5000	4929	ug/L	-1	10	
Aluminum	R	0.8491	0.7773	20000	20100	ug/L	0	10	
Calcium	R	9.4142	8.6179	20000	20160	ug/L	1	10	
Iron	R	2.7465	2.5428	20000	19370	ug/L	-3	10	
Magnesium	R	1.3588	1.3555	20000	20640	ug/L	3	10	
Potassium	R	2.8010	2.4733	20000	19500	ug/L	-3	10	
Sodium	R	293.87	284.35	20000	20110	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2890952	-7.20

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921050 File : 111507rrrr Time : 15-NOV-2007 13:14
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[3.202]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.4081]	5.000	0.1113	ug/L	!ib
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	[9.397]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.139]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.5486]	5.000	0.2448	ug/L	!ib
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	[2.589]	5.000	0.8535	ug/L	!ib
Lead	A	3.559	3.000	0.6892	ug/L	ib ***
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[0.8593]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.3941]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.280]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.382]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[4.523]	20.00	0.8377	ug/L	!ib
Aluminum	R	[11.95]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[34.52]	100.0	6.086	ug/L	!ib
Magnesium	R	[32.88]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	3087304	-0.90

!=warning ib=instrument blank

97459921050

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 97459921051
Cal : 97459921001
Standards: S7324

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 13:31

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	505.9	ug/L	1	20	
Arsenic	A	500.0	539.0	ug/L	8	20	
Barium	A	500.0	528.9	ug/L	6	20	
Beryllium	A	500.0	547.6	ug/L	10	20	
Cadmium	A	1000	987.2	ug/L	-1	20	
Chromium	A	500.0	513.1	ug/L	3	20	
Cobalt	A	500.0	471.8	ug/L	-6	20	
Copper	A	500.0	558.5	ug/L	12	20	
Lead	A	1000	951.8	ug/L	-5	20	
Manganese	A	500.0	522.2	ug/L	4	20	
Molybdenum	A	500.0	538.4	ug/L	8	20	
Nickel	A	1000	974.6	ug/L	-3	20	
Selenium	A	500.0	514.5	ug/L	3	20	
Silver	A	1000	1080	ug/L	8	20	
Thallium	A	500.0	486.8	ug/L	-3	20	
Titanium	A	20000	20020	ug/L	0		
Vanadium	A	500.0	544.5	ug/L	9	20	
Zinc	A	1000	1042	ug/L	4	20	
Aluminum	R	500000	511700	ug/L	2		
Calcium	R	500000	489300	ug/L	-2		
Iron	R	200000	192300	ug/L	-4		
Magnesium	R	500000	505000	ug/L	1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2523133	-19.01

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921053 File : 111507rrrr Time : 15-NOV-2007 13:38
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.985	5000	5016	ug/L	0	10	
Arsenic	A	11.401	12.503	5000	5125	ug/L	2	10	
Barium	A	111.40	109.18	5000	5036	ug/L	1	10	
Beryllium	A	5098.2	5297.3	500.0	519.5	ug/L	4	10	
Boron	A	225.89	241.17	5000	5169	ug/L	3	10	
Cadmium	A	200.83	199.02	5000	5014	ug/L	0	10	
Chromium	A	194.76	196.39	5000	4968	ug/L	-1	10	
Cobalt	A	65.705	63.521	5000	4831	ug/L	-3	10	
Copper	A	203.59	207.79	5000	5025	ug/L	0	10	
Lead	A	62.998	64.491	5000	4990	ug/L	0	10	
Manganese	A	581.67	555.49	5000	4955	ug/L	-1	10	
Molybdenum	A	49.220	47.503	5000	4957	ug/L	-1	10	
Nickel	A	99.092	99.385	5000	4991	ug/L	0	10	
Selenium	A	18.695	16.544	5000	5035	ug/L	1	10	
Silver	A	574.15	597.79	1000	1032	ug/L	3	10	
Thallium	A	13.010	12.111	5000	4915	ug/L	-2	10	
Tin	A	21.871	22.446	5000	4908	ug/L	-2	10	
Titanium	A	816.85	807.57	5000	4931	ug/L	-1	10	
Vanadium	A	232.84	238.01	5000	4987	ug/L	0	10	
Zinc	A	114.72	99.790	5000	5034	ug/L	1	10	
Aluminum	R	0.8491	0.7963	20000	20590	ug/L	3	10	
Calcium	R	9.4142	8.9654	20000	20970	ug/L	5	10	
Iron	R	2.7465	2.7033	20000	20590	ug/L	3	10	
Magnesium	R	1.3588	1.4148	20000	21550	ug/L	8	10	
Potassium	R	2.8010	2.6099	20000	20580	ug/L	3	10	
Sodium	R	293.87	294.66	20000	20840	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2910926	-6.56

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921056 File : 111507rrrr Time : 15-NOV-2007 13:49
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	ND	5.000	0.1113	ug/L	
Beryllium	A	[0.1141]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.2488]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	[1.124]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[0.6601]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	[2.201]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[45.93]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	3031879	-2.68

!=warning ib=instrument blank

97459921056

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921066 File : 111507rrrr Time : 15-NOV-2007 14:30
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	21.241	5000	5077	ug/L	2	10	
Arsenic	A	11.401	12.626	5000	5175	ug/L	3	10	
Barium	A	111.40	109.22	5000	5038	ug/L	1	10	
Beryllium	A	5098.2	5292.8	500.0	519.1	ug/L	4	10	
Boron	A	225.89	240.89	5000	5163	ug/L	3	10	
Cadmium	A	200.83	200.75	5000	5057	ug/L	1	10	
Chromium	A	194.76	196.11	5000	4961	ug/L	-1	10	
Cobalt	A	65.705	64.488	5000	4904	ug/L	-2	10	
Copper	A	203.59	206.47	5000	4993	ug/L	0	10	
Lead	A	62.998	65.364	5000	5057	ug/L	1	10	
Manganese	A	581.67	559.70	5000	4993	ug/L	0	10	
Molybdenum	A	49.220	48.755	5000	5088	ug/L	2	10	
Nickel	A	99.092	99.374	5000	4991	ug/L	0	10	
Selenium	A	18.695	16.876	5000	5136	ug/L	3	10	
Silver	A	574.15	616.58	1000	1064	ug/L	6	10	
Thallium	A	13.010	12.317	5000	4999	ug/L	0	10	
Tin	A	21.871	22.812	5000	4989	ug/L	0	10	
Titanium	A	816.85	807.43	5000	4930	ug/L	-1	10	
Vanadium	A	232.84	237.51	5000	4976	ug/L	0	10	
Zinc	A	114.72	99.593	5000	5024	ug/L	0	10	
Aluminum	R	0.8491	0.7801	20000	20170	ug/L	1	10	
Calcium	R	9.4142	8.8909	20000	20790	ug/L	4	10	
Iron	R	2.7465	2.6732	20000	20360	ug/L	2	10	
Magnesium	R	1.3588	1.4097	20000	21470	ug/L	7	10	
Potassium	R	2.8010	2.5680	20000	20240	ug/L	1	10	
Sodium	R	293.87	288.53	20000	20400	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2947554	-5.38

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921068 File : 111507rrrr Time : 15-NOV-2007 14:37
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[3.255]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.1284]	5.000	0.1113	ug/L	!ib
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	[4.115]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.3721]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	[0.9189]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[4.074]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	[1.767]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.573]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[167.6]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	3068623	-1.50

!=warning ib=instrument blank

97459921068

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921072 File : 111507rrrr Time : 15-NOV-2007 14:50
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	490.7	ug/L	-2	20	
Arsenic	A	500.0	548.5	ug/L	10	20	
Barium	A	500.0	522.5	ug/L	5	20	
Beryllium	A	500.0	534.5	ug/L	7	20	
Cadmium	A	1000	975.6	ug/L	-2	20	
Chromium	A	500.0	503.8	ug/L	1	20	
Cobalt	A	500.0	463.6	ug/L	-7	20	
Copper	A	500.0	545.1	ug/L	9	20	
Lead	A	1000	935.7	ug/L	-6	20	
Manganese	A	500.0	517.7	ug/L	4	20	
Molybdenum	A	500.0	534.1	ug/L	7	20	
Nickel	A	1000	946.5	ug/L	-5	20	
Selenium	A	500.0	512.2	ug/L	2	20	
Silver	A	1000	1067	ug/L	7	20	
Thallium	A	500.0	479.4	ug/L	-4	20	
Titanium	A	20000	19960	ug/L	0		
Vanadium	A	500.0	536.7	ug/L	7	20	
Zinc	A	1000	1002	ug/L	0	20	
Aluminum	R	500000	501000	ug/L	0		
Calcium	R	500000	470000	ug/L	-6		
Iron	R	200000	183500	ug/L	-8		
Magnesium	R	500000	480700	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2500812	-19.72

0154

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921074 File : 111507rrrr Time : 15-NOV-2007 14:58
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.442	5000	4886	ug/L	-2	10	
Arsenic	A	11.401	12.191	5000	4997	ug/L	0	10	
Barium	A	111.40	108.73	5000	5016	ug/L	0	10	
Beryllium	A	5098.2	5223.2	500.0	512.2	ug/L	2	10	
Boron	A	225.89	239.77	5000	5140	ug/L	3	10	
Cadmium	A	200.83	197.30	5000	4970	ug/L	-1	10	
Chromium	A	194.76	196.06	5000	4960	ug/L	-1	10	
Cobalt	A	65.705	62.307	5000	4738	ug/L	-5	10	
Copper	A	203.59	206.27	5000	4988	ug/L	0	10	
Lead	A	62.998	62.952	5000	4871	ug/L	-3	10	
Manganese	A	581.67	552.22	5000	4926	ug/L	-1	10	
Molybdenum	A	49.220	47.301	5000	4936	ug/L	-1	10	
Nickel	A	99.092	98.614	5000	4952	ug/L	-1	10	
Selenium	A	18.695	16.049	5000	4885	ug/L	-2	10	
Silver	A	574.15	599.62	1000	1035	ug/L	3	10	
Thallium	A	13.010	11.884	5000	4823	ug/L	-4	10	
Tin	A	21.871	22.038	5000	4819	ug/L	-4	10	
Titanium	A	816.85	798.05	5000	4873	ug/L	-3	10	
Vanadium	A	232.84	238.01	5000	4986	ug/L	0	10	
Zinc	A	114.72	98.158	5000	4952	ug/L	-1	10	
Aluminum	R	0.8491	0.8041	20000	20790	ug/L	4	10	
Calcium	R	9.4142	9.0209	20000	21100	ug/L	5	10	
Iron	R	2.7465	2.7265	20000	20770	ug/L	4	10	
Magnesium	R	1.3588	1.3974	20000	21280	ug/L	6	10	
Potassium	R	2.8010	2.6383	20000	20800	ug/L	4	10	
Sodium	R	293.87	308.79	20000	21840	ug/L	9	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2856800	-8.30

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97459921076
Cal : 97459921001
File : 111507rrrr
Caldate : 15-NOV-2007
IDF : 1.0
Time : 15-NOV-2007 15:05

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.1697]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1216]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.5136]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.233]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.6012]	5.000	0.3660	ug/L	!ib
Selenium	A	[1.556]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[1.830]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.479]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[8.498]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[139.8]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2987213	-4.11

!=warning ib=instrument blank

97459921076

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921087 File : 111507rrrr Time : 15-NOV-2007 15:47
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	463.2	ug/L	-7	20	
Arsenic	A	500.0	530.1	ug/L	6	20	
Barium	A	500.0	513.7	ug/L	3	20	
Beryllium	A	500.0	537.1	ug/L	7	20	
Cadmium	A	1000	993.7	ug/L	-1	20	
Chromium	A	500.0	504.2	ug/L	1	20	
Cobalt	A	500.0	458.1	ug/L	-8	20	
Copper	A	500.0	542.0	ug/L	8	20	
Lead	A	1000	918.0	ug/L	-8	20	
Manganese	A	500.0	523.6	ug/L	5	20	
Molybdenum	A	500.0	525.2	ug/L	5	20	
Nickel	A	1000	956.0	ug/L	-4	20	
Selenium	A	500.0	504.3	ug/L	1	20	
Silver	A	1000	1074	ug/L	7	20	
Thallium	A	500.0	472.0	ug/L	-6	20	
Titanium	A	20000	19560	ug/L	-2		
Vanadium	A	500.0	537.0	ug/L	7	20	
Zinc	A	1000	1016	ug/L	2	20	
Aluminum	R	500000	484700	ug/L	-3		
Calcium	R	500000	468900	ug/L	-6		
Iron	R	200000	180600	ug/L	-10		
Magnesium	R	500000	469900	ug/L	-6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2546700	-18.25

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 97459921089
Cal : 97459921001
Standards: S7684

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 15:54

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.698	5000	4947	ug/L	-1	10	
Arsenic	A	11.401	12.383	5000	5075	ug/L	2	10	
Barium	A	111.40	108.44	5000	5002	ug/L	0	10	
Beryllium	A	5098.2	5186.7	500.0	508.6	ug/L	2	10	
Boron	A	225.89	238.81	5000	5119	ug/L	2	10	
Cadmium	A	200.83	196.51	5000	4950	ug/L	-1	10	
Chromium	A	194.76	194.62	5000	4924	ug/L	-2	10	
Cobalt	A	65.705	62.829	5000	4778	ug/L	-4	10	
Copper	A	203.59	205.64	5000	4973	ug/L	-1	10	
Lead	A	62.998	63.511	5000	4914	ug/L	-2	10	
Manganese	A	581.67	550.21	5000	4908	ug/L	-2	10	
Molybdenum	A	49.220	47.491	5000	4956	ug/L	-1	10	
Nickel	A	99.092	96.183	5000	4830	ug/L	-3	10	
Selenium	A	18.695	16.200	5000	4931	ug/L	-1	10	
Silver	A	574.15	609.45	1000	1052	ug/L	5	10	
Thallium	A	13.010	12.042	5000	4887	ug/L	-2	10	
Tin	A	21.871	22.319	5000	4881	ug/L	-2	10	
Titanium	A	816.85	797.41	5000	4869	ug/L	-3	10	
Vanadium	A	232.84	236.87	5000	4963	ug/L	-1	10	
Zinc	A	114.72	97.118	5000	4899	ug/L	-2	10	
Aluminum	R	0.8491	0.8067	20000	20860	ug/L	4	10	
Calcium	R	9.4142	8.9849	20000	21010	ug/L	5	10	
Iron	R	2.7465	2.6856	20000	20460	ug/L	2	10	
Magnesium	R	1.3588	1.3911	20000	21180	ug/L	6	10	
Potassium	R	2.8010	2.6149	20000	20610	ug/L	3	10	
Sodium	R	293.87	296.43	20000	20960	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2861058	-8.16

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921091 File : 111507rrrr Time : 15-NOV-2007 16:01
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.771]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.2537]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1542]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.5211]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	[1.308]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.716]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.7097]	5.000	0.3660	ug/L	!ib
Selenium	A	[1.629]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.454]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[12.38]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2998822	-3.74

!=warning ib=instrument blank

97459921091

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921099 File : 111507rrrr Time : 15-NOV-2007 16:26
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	493.6	ug/L	-1	20	
Arsenic	A	500.0	522.7	ug/L	5	20	
Barium	A	500.0	517.2	ug/L	3	20	
Beryllium	A	500.0	535.3	ug/L	7	20	
Cadmium	A	1000	986.7	ug/L	-1	20	
Chromium	A	500.0	503.9	ug/L	1	20	
Cobalt	A	500.0	458.9	ug/L	-8	20	
Copper	A	500.0	543.0	ug/L	9	20	
Lead	A	1000	923.2	ug/L	-8	20	
Manganese	A	500.0	523.0	ug/L	5	20	
Molybdenum	A	500.0	528.2	ug/L	6	20	
Nickel	A	1000	952.2	ug/L	-5	20	
Selenium	A	500.0	503.3	ug/L	1	20	
Silver	A	1000	1079	ug/L	8	20	
Thallium	A	500.0	481.0	ug/L	-4	20	
Titanium	A	20000	19770	ug/L	-1		
Vanadium	A	500.0	536.0	ug/L	7	20	
Zinc	A	1000	1011	ug/L	1	20	
Aluminum	R	500000	509700	ug/L	2		
Calcium	R	500000	483000	ug/L	-3		
Iron	R	200000	187600	ug/L	-6		
Magnesium	R	500000	490600	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2530643	-18.77

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921101 File : 111507rrrr Time : 15-NOV-2007 16:33
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.518	5000	4904	ug/L	-2	10	
Arsenic	A	11.401	12.230	5000	5013	ug/L	0	10	
Barium	A	111.40	107.81	5000	4973	ug/L	-1	10	
Beryllium	A	5098.2	5163.5	500.0	506.4	ug/L	1	10	
Boron	A	225.89	237.06	5000	5081	ug/L	2	10	
Cadmium	A	200.83	195.53	5000	4926	ug/L	-1	10	
Chromium	A	194.76	194.13	5000	4911	ug/L	-2	10	
Cobalt	A	65.705	62.187	5000	4729	ug/L	-5	10	
Copper	A	203.59	204.49	5000	4945	ug/L	-1	10	
Lead	A	62.998	62.751	5000	4855	ug/L	-3	10	
Manganese	A	581.67	548.55	5000	4893	ug/L	-2	10	
Molybdenum	A	49.220	47.760	5000	4984	ug/L	0	10	
Nickel	A	99.092	97.537	5000	4898	ug/L	-2	10	
Selenium	A	18.695	16.096	5000	4899	ug/L	-2	10	
Silver	A	574.15	602.35	1000	1040	ug/L	4	10	
Thallium	A	13.010	11.894	5000	4827	ug/L	-3	10	
Tin	A	21.871	22.023	5000	4816	ug/L	-4	10	
Titanium	A	816.85	792.40	5000	4839	ug/L	-3	10	
Vanadium	A	232.84	236.07	5000	4946	ug/L	-1	10	
Zinc	A	114.72	96.707	5000	4879	ug/L	-2	10	
Aluminum	R	0.8491	0.7842	20000	20280	ug/L	1	10	
Calcium	R	9.4142	8.7568	20000	20480	ug/L	2	10	
Iron	R	2.7465	2.6269	20000	20010	ug/L	0	10	
Magnesium	R	1.3588	1.3406	20000	20420	ug/L	2	10	
Potassium	R	2.8010	2.5633	20000	20210	ug/L	1	10	
Sodium	R	293.87	293.23	20000	20740	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2851394	-8.47

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921103 File : 111507rrrr Time : 15-NOV-2007 16:40
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.2579]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1035]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.5022]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	[0.3697]	5.000	0.3034	ug/L	!ib
Copper	A	[0.9533]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.673]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.5534]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.444]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[11.82]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[98.06]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	3035419	-2.56

!=warning ib=instrument blank

97459921103

00162

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 97459921114
Cal : 97459921001
Standards: S7324

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 17:16

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	472.5	ug/L	-5	20	
Arsenic	A	500.0	519.9	ug/L	4	20	
Barium	A	500.0	510.0	ug/L	2	20	
Beryllium	A	500.0	525.5	ug/L	5	20	
Cadmium	A	1000	992.8	ug/L	-1	20	
Chromium	A	500.0	489.0	ug/L	-2	20	
Cobalt	A	500.0	457.1	ug/L	-9	20	
Copper	A	500.0	522.0	ug/L	4	20	
Lead	A	1000	912.8	ug/L	-9	20	
Manganese	A	500.0	507.9	ug/L	2	20	
Molybdenum	A	500.0	521.7	ug/L	4	20	
Nickel	A	1000	935.9	ug/L	-6	20	
Selenium	A	500.0	503.0	ug/L	1	20	
Silver	A	1000	1055	ug/L	5	20	
Thallium	A	500.0	471.3	ug/L	-6	20	
Titanium	A	20000	19280	ug/L	-4		
Vanadium	A	500.0	517.3	ug/L	3	20	
Zinc	A	1000	993.9	ug/L	-1	20	
Aluminum	R	500000	495500	ug/L	-1		
Calcium	R	500000	480100	ug/L	-4		
Iron	R	200000	184300	ug/L	-8		
Magnesium	R	500000	482100	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2548859	-18.18

97459921114

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921116 File : 111507rrrr Time : 15-NOV-2007 17:23
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.727	5000	4954	ug/L	-1	10	
Arsenic	A	11.401	12.451	5000	5103	ug/L	2	10	
Barium	A	111.40	107.12	5000	4941	ug/L	-1	10	
Beryllium	A	5098.2	5145.2	500.0	504.6	ug/L	1	10	
Boron	A	225.89	235.90	5000	5057	ug/L	1	10	
Cadmium	A	200.83	198.20	5000	4993	ug/L	0	10	
Chromium	A	194.76	192.62	5000	4873	ug/L	-3	10	
Cobalt	A	65.705	63.068	5000	4796	ug/L	-4	10	
Copper	A	203.59	201.29	5000	4867	ug/L	-3	10	
Lead	A	62.998	63.941	5000	4947	ug/L	-1	10	
Manganese	A	581.67	549.33	5000	4900	ug/L	-2	10	
Molybdenum	A	49.220	47.733	5000	4981	ug/L	0	10	
Nickel	A	99.092	97.202	5000	4881	ug/L	-2	10	
Selenium	A	18.695	16.322	5000	4968	ug/L	-1	10	
Silver	A	574.15	569.87	1000	983.6	ug/L	-2	10	
Thallium	A	13.010	12.050	5000	4890	ug/L	-2	10	
Tin	A	21.871	22.296	5000	4876	ug/L	-2	10	
Titanium	A	816.85	789.28	5000	4820	ug/L	-4	10	
Vanadium	A	232.84	233.73	5000	4897	ug/L	-2	10	
Zinc	A	114.72	96.658	5000	4876	ug/L	-2	10	
Aluminum	R	0.8491	0.7784	20000	20130	ug/L	1	10	
Calcium	R	9.4142	8.8070	20000	20600	ug/L	3	10	
Iron	R	2.7465	2.6399	20000	20110	ug/L	1	10	
Magnesium	R	1.3588	1.3580	20000	20680	ug/L	3	10	
Potassium	R	2.8010	2.5463	20000	20070	ug/L	0	10	
Sodium	R	293.87	293.22	20000	20730	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2816299	-9.60

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921118 File : 111507rrrr Time : 15-NOV-2007 17:29
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.2615]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1560]	2.000	0.04231	ug/L	!ib
Boron	A	[8.448]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.4792]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	[1.260]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[3.332]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.7442]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.064]	5.000	1.469	ug/L	!ib
Silver	A	[0.9082]	5.000	0.7459	ug/L	!ib
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.518]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[11.82]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[74.11]	500.0	39.71	ug/L	!ib
Sodium	R	[24.86]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2976406	-4.46

!=warning ib=instrument blank

97459921118

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 97459921130
Cal : 97459921001
Standards: S7684

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 18:12

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.227	5000	4834	ug/L	-3	10	
Arsenic	A	11.401	11.992	5000	4915	ug/L	-2	10	
Barium	A	111.40	105.76	5000	4879	ug/L	-2	10	
Beryllium	A	5098.2	5096.5	500.0	499.8	ug/L	0	10	
Boron	A	225.89	232.45	5000	4983	ug/L	0	10	
Cadmium	A	200.83	194.06	5000	4889	ug/L	-2	10	
Chromium	A	194.76	189.92	5000	4805	ug/L	-4	10	
Cobalt	A	65.705	61.178	5000	4652	ug/L	-7	10	
Copper	A	203.59	200.89	5000	4858	ug/L	-3	10	
Lead	A	62.998	61.949	5000	4793	ug/L	-4	10	
Manganese	A	581.67	542.67	5000	4841	ug/L	-3	10	
Molybdenum	A	49.220	46.289	5000	4831	ug/L	-3	10	
Nickel	A	99.092	95.719	5000	4807	ug/L	-4	10	
Selenium	A	18.695	15.893	5000	4837	ug/L	-3	10	
Silver	A	574.15	554.40	1000	956.9	ug/L	-4	10	
Thallium	A	13.010	11.719	5000	4756	ug/L	-5	10	
Tin	A	21.871	21.589	5000	4721	ug/L	-6	10	
Titanium	A	816.85	789.45	5000	4821	ug/L	-4	10	
Vanadium	A	232.84	230.68	5000	4833	ug/L	-3	10	
Zinc	A	114.72	95.140	5000	4800	ug/L	-4	10	
Aluminum	R	0.8491	0.7919	20000	20480	ug/L	2	10	
Calcium	R	9.4142	8.8707	20000	20750	ug/L	4	10	
Iron	R	2.7465	2.6378	20000	20090	ug/L	0	10	
Magnesium	R	1.3588	1.3651	20000	20790	ug/L	4	10	
Potassium	R	2.8010	2.5585	20000	20170	ug/L	1	10	
Sodium	R	293.87	296.69	20000	20980	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2830189	-9.15

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921132 File : 111507rrrr Time : 15-NOV-2007 18:19
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[1.460]	5.000	1.320	ug/L	!ib
Barium	A	[0.6130]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2203]	2.000	0.04231	ug/L	!ib
Boron	A	[10.41]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.8179]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.5189]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.5203]	5.000	0.3034	ug/L	!ib
Copper	A	[1.884]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.6052]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.122]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.197]	5.000	0.3660	ug/L	!ib
Selenium	A	[1.544]	5.000	1.469	ug/L	!ib
Silver	A	[1.211]	5.000	0.7459	ug/L	!ib
Thallium	A	[2.922]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.066]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.820]	20.00	0.8377	ug/L	!ib
Aluminum	R	[16.52]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[13.41]	100.0	6.086	ug/L	!ib
Magnesium	R	[12.68]	200.0	10.47	ug/L	!ib
Potassium	R	[95.95]	500.0	39.71	ug/L	!ib
Sodium	R	[29.61]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2962696	-4.90

!=warning ib=instrument blank

97459921132

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 97459921143 File : 111507rrrr IDF : 1.0
Cal : 97459921001 Caldate : 15-NOV-2007 Time : 15-NOV-2007 19:01
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	491.2	ug/L	-2	20	
Arsenic	A	500.0	520.2	ug/L	4	20	
Barium	A	500.0	497.0	ug/L	-1	20	
Beryllium	A	500.0	525.4	ug/L	5	20	
Cadmium	A	1000	984.9	ug/L	-2	20	
Chromium	A	500.0	487.2	ug/L	-3	20	
Cobalt	A	500.0	446.4	ug/L	-11	20	
Copper	A	500.0	521.6	ug/L	4	20	
Lead	A	1000	891.4	ug/L	-11	20	
Manganese	A	500.0	502.5	ug/L	1	20	
Molybdenum	A	500.0	509.0	ug/L	2	20	
Nickel	A	1000	936.5	ug/L	-6	20	
Selenium	A	500.0	502.6	ug/L	1	20	
Silver	A	1000	1041	ug/L	4	20	
Thallium	A	500.0	458.4	ug/L	-8	20	
Titanium	A	20000	19080	ug/L	-5		
Vanadium	A	500.0	514.7	ug/L	3	20	
Zinc	A	1000	1002	ug/L	0	20	
Aluminum	R	500000	480300	ug/L	-4		
Calcium	R	500000	467900	ug/L	-6		
Iron	R	200000	180900	ug/L	-10		
Magnesium	R	500000	469400	ug/L	-6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A .	3115297	2531615	-18.74

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 97459921146
Cal : 97459921001
Standards: S7684

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 19:12

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.398	5000	4875	ug/L	-2	10	
Arsenic	A	11.401	12.262	5000	5026	ug/L	1	10	
Barium	A	111.40	106.64	5000	4919	ug/L	-2	10	
Beryllium	A	5098.2	5128.0	500.0	502.9	ug/L	1	10	
Boron	A	225.89	235.41	5000	5046	ug/L	1	10	
Cadmium	A	200.83	197.37	5000	4972	ug/L	-1	10	
Chromium	A	194.76	191.50	5000	4845	ug/L	-3	10	
Cobalt	A	65.705	62.200	5000	4730	ug/L	-5	10	
Copper	A	203.59	200.53	5000	4849	ug/L	-3	10	
Lead	A	62.998	62.838	5000	4862	ug/L	-3	10	
Manganese	A	581.67	545.20	5000	4863	ug/L	-3	10	
Molybdenum	A	49.220	46.738	5000	4877	ug/L	-2	10	
Nickel	A	99.092	95.247	5000	4783	ug/L	-4	10	
Selenium	A	18.695	16.053	5000	4886	ug/L	-2	10	
Silver	A	574.15	559.77	1000	966.2	ug/L	-3	10	
Thallium	A	13.010	11.843	5000	4806	ug/L	-4	10	
Tin	A	21.871	21.952	5000	4801	ug/L	-4	10	
Titanium	A	816.85	785.98	5000	4799	ug/L	-4	10	
Vanadium	A	232.84	232.30	5000	4867	ug/L	-3	10	
Zinc	A	114.72	96.327	5000	4859	ug/L	-3	10	
Aluminum	R	0.8491	0.7659	20000	19810	ug/L	-1	10	
Calcium	R	9.4142	8.6473	20000	20220	ug/L	1	10	
Iron	R	2.7465	2.5965	20000	19780	ug/L	-1	10	
Magnesium	R	1.3588	1.3368	20000	20360	ug/L	2	10	
Potassium	R	2.8010	2.4620	20000	19410	ug/L	-3	10	
Sodium	R	293.87	281.12	20000	19880	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2791256	-10.40

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97459921149 File : 111507rrrr IDF : 1.0
Cal : 97459921001 Caldate : 15-NOV-2007 Time : 15-NOV-2007 19:22

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.6648]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2263]	2.000	0.04231	ug/L	!ib
Boron	A	[28.21]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.9538]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.5455]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.5206]	5.000	0.3034	ug/L	!ib
Copper	A	[1.401]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.6930]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.630]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.259]	5.000	0.3660	ug/L	!ib
Selenium	A	[3.727]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.637]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.590]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[14.70]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[151.6]	500.0	39.71	ug/L	!ib
Sodium	R	[29.44]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2957651	-5.06

!=warning ib=instrument blank

97459921149

00179

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921157 File : 111507rrrr Time : 15-NOV-2007 19:49
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7324

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	464.5	ug/L	-7	20	
Arsenic	A	500.0	531.9	ug/L	6	20	
Barium	A	500.0	506.5	ug/L	1	20	
Beryllium	A	500.0	520.4	ug/L	4	20	
Cadmium	A	1000	966.6	ug/L	-3	20	
Chromium	A	500.0	484.5	ug/L	-3	20	
Cobalt	A	500.0	453.1	ug/L	-9	20	
Copper	A	500.0	522.8	ug/L	5	20	
Lead	A	1000	906.9	ug/L	-9	20	
Manganese	A	500.0	500.2	ug/L	0	20	
Molybdenum	A	500.0	520.7	ug/L	4	20	
Nickel	A	1000	922.1	ug/L	-8	20	
Selenium	A	500.0	513.8	ug/L	3	20	
Silver	A	1000	1036	ug/L	4	20	
Thallium	A	500.0	458.4	ug/L	-8	20	
Titanium	A	20000	19300	ug/L	-4		
Vanadium	A	500.0	512.2	ug/L	2	20	
Zinc	A	1000	982.5	ug/L	-2	20	
Aluminum	R	500000	483900	ug/L	-3		
Calcium	R	500000	465900	ug/L	-7		
Iron	R	200000	179700	ug/L	-10		
Magnesium	R	500000	468900	ug/L	-6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2465919	-20.84

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 97459921159
Cal : 97459921001
Standards: S7684

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 19:56

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.116	5000	4808	ug/L	-4	10	
Arsenic	A	11.401	11.995	5000	4917	ug/L	-2	10	
Barium	A	111.40	105.68	5000	4875	ug/L	-3	10	
Beryllium	A	5098.2	5095.8	500.0	499.7	ug/L	0	10	
Boron	A	225.89	232.00	5000	4973	ug/L	-1	10	
Cadmium	A	200.83	194.08	5000	4889	ug/L	-2	10	
Chromium	A	194.76	189.30	5000	4789	ug/L	-4	10	
Cobalt	A	65.705	61.118	5000	4648	ug/L	-7	10	
Copper	A	203.59	199.70	5000	4829	ug/L	-3	10	
Lead	A	62.998	61.707	5000	4774	ug/L	-5	10	
Manganese	A	581.67	543.38	5000	4847	ug/L	-3	10	
Molybdenum	A	49.220	46.080	5000	4809	ug/L	-4	10	
Nickel	A	99.092	95.476	5000	4795	ug/L	-4	10	
Selenium	A	18.695	15.825	5000	4816	ug/L	-4	10	
Silver	A	574.15	554.28	1000	956.7	ug/L	-4	10	
Thallium	A	13.010	11.612	5000	4712	ug/L	-6	10	
Tin	A	21.871	21.518	5000	4705	ug/L	-6	10	
Titanium	A	816.85	788.37	5000	4814	ug/L	-4	10	
Vanadium	A	232.84	230.09	5000	4821	ug/L	-4	10	
Zinc	A	114.72	94.835	5000	4784	ug/L	-4	10	
Aluminum	R	0.8491	0.7739	20000	20010	ug/L	0	10	
Calcium	R	9.4142	8.7641	20000	20500	ug/L	2	10	
Iron	R	2.7465	2.6255	20000	20000	ug/L	0	10	
Magnesium	R	1.3588	1.3461	20000	20500	ug/L	2	10	
Potassium	R	2.8010	2.5062	20000	19760	ug/L	-1	10	
Sodium	R	293.87	289.01	20000	20440	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2859397	-8.21

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97459921161
Cal : 97459921001
File : 111507rrrr
Caldate : 15-NOV-2007
IDF : 1.0
Time : 15-NOV-2007 20:03

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[1.488]	5.000	1.320	ug/L	!ib
Barium	A	[1.113]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2075]	2.000	0.04231	ug/L	!ib
Boron	A	[20.43]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.218]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.079]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.8063]	5.000	0.3034	ug/L	!ib
Copper	A	[2.020]	5.000	0.8535	ug/L	!ib
Lead	A	[1.272]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.098]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[4.754]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.486]	5.000	0.3660	ug/L	!ib
Selenium	A	[3.810]	5.000	1.469	ug/L	!ib
Silver	A	[0.7814]	5.000	0.7459	ug/L	!ib
Thallium	A	[3.625]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.478]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[2.032]	20.00	0.8377	ug/L	!ib
Aluminum	R	[16.04]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[15.96]	100.0	6.086	ug/L	!ib
Magnesium	R	[11.58]	200.0	10.47	ug/L	!ib
Potassium	R	[107.5]	500.0	39.71	ug/L	!ib
Sodium	R	[20.64]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2917489	-6.35

!=warning ib=instrument blank

97459921161

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921171 File : 111507rrrr Time : 15-NOV-2007 20:41
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	19.775	5000	4726	ug/L	-5	10	
Arsenic	A	11.401	11.747	5000	4815	ug/L	-4	10	
Barium	A	111.40	104.52	5000	4821	ug/L	-4	10	
Beryllium	A	5098.2	5036.9	500.0	494.0	ug/L	-1	10	
Boron	A	225.89	229.66	5000	4923	ug/L	-2	10	
Cadmium	A	200.83	191.83	5000	4833	ug/L	-3	10	
Chromium	A	194.76	187.68	5000	4748	ug/L	-5	10	
Cobalt	A	65.705	60.239	5000	4581	ug/L	-8	10	
Copper	A	203.59	198.52	5000	4801	ug/L	-4	10	
Lead	A	62.998	60.686	5000	4695	ug/L	-6	10	
Manganese	A	581.67	539.09	5000	4809	ug/L	-4	10	
Molybdenum	A	49.220	45.341	5000	4732	ug/L	-5	10	
Nickel	A	99.092	92.093	5000	4625	ug/L	-8	10	
Selenium	A	18.695	15.387	5000	4683	ug/L	-6	10	
Silver	A	574.15	547.13	1000	944.4	ug/L	-6	10	
Thallium	A	13.010	11.486	5000	4661	ug/L	-7	10	
Tin	A	21.871	21.202	5000	4636	ug/L	-7	10	
Titanium	A	816.85	782.63	5000	4779	ug/L	-4	10	
Vanadium	A	232.84	228.29	5000	4783	ug/L	-4	10	
Zinc	A	114.72	93.380	5000	4711	ug/L	-6	10	
Aluminum	R	0.8491	0.7305	20000	18890	ug/L	-6	10	
Calcium	R	9.4142	8.1955	20000	19170	ug/L	-4	10	
Iron	R	2.7465	2.4431	20000	18610	ug/L	-7	10	
Magnesium	R	1.3588	1.2553	20000	19120	ug/L	-4	10	
Potassium	R	2.8010	2.3542	20000	18560	ug/L	-7	10	
Sodium	R	293.87	276.12	20000	19530	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2851019	-8.48

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97459921174 File : 111507rrrr IDF : 1.0
Cal : 97459921001 Caldate : 15-NOV-2007 Time : 15-NOV-2007 20:51

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[1.692]	5.000	1.320	ug/L	!ib
Barium	A	[1.212]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2769]	2.000	0.04231	ug/L	!ib
Boron	A	[11.23]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.311]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.138]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.041]	5.000	0.3034	ug/L	!ib
Copper	A	[1.867]	5.000	0.8535	ug/L	!ib
Lead	A	[0.8279]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.238]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[1.873]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.638]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.102]	5.000	1.469	ug/L	!ib
Silver	A	[1.590]	5.000	0.7459	ug/L	!ib
Thallium	A	[1.901]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.601]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[2.057]	20.00	0.8377	ug/L	!ib
Aluminum	R	[16.84]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[18.38]	100.0	6.086	ug/L	!ib
Magnesium	R	[14.74]	200.0	10.47	ug/L	!ib
Potassium	R	[49.57]	500.0	39.71	ug/L	!ib
Sodium	R	[36.87]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2904261	-6.77

!=warning ib=instrument blank

97459921174

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921187 File : 111507rrrr Time : 15-NOV-2007 21:39
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	19.962	5000	4771	ug/L	-5	10	
Arsenic	A	11.401	11.906	5000	4880	ug/L	-2	10	
Barium	A	111.40	104.93	5000	4840	ug/L	-3	10	
Beryllium	A	5098.2	5015.0	500.0	491.8	ug/L	-2	10	
Boron	A	225.89	230.94	5000	4950	ug/L	-1	10	
Cadmium	A	200.83	190.71	5000	4804	ug/L	-4	10	
Chromium	A	194.76	188.59	5000	4771	ug/L	-5	10	
Cobalt	A	65.705	60.792	5000	4623	ug/L	-8	10	
Copper	A	203.59	199.51	5000	4825	ug/L	-4	10	
Lead	A	62.998	61.108	5000	4728	ug/L	-5	10	
Manganese	A	581.67	536.46	5000	4785	ug/L	-4	10	
Molybdenum	A	49.220	48.167	5000	5026	ug/L	1	10	
Nickel	A	99.092	94.383	5000	4740	ug/L	-5	10	
Selenium	A	18.695	15.604	5000	4749	ug/L	-5	10	
Silver	A	574.15	555.92	1000	959.5	ug/L	-4	10	
Thallium	A	13.010	11.662	5000	4733	ug/L	-5	10	
Tin	A	21.871	21.428	5000	4686	ug/L	-6	10	
Titanium	A	816.85	779.41	5000	4759	ug/L	-5	10	
Vanadium	A	232.84	229.64	5000	4811	ug/L	-4	10	
Zinc	A	114.72	92.955	5000	4689	ug/L	-6	10	
Aluminum	R	0.8491	0.7424	20000	19200	ug/L	-4	10	
Calcium	R	9.4142	8.2426	20000	19280	ug/L	-4	10	
Iron	R	2.7465	2.4606	20000	18740	ug/L	-6	10	
Magnesium	R	1.3588	1.2473	20000	18990	ug/L	-5	10	
Potassium	R	2.8010	2.4162	20000	19050	ug/L	-5	10	
Sodium	R	293.87	286.95	20000	20290	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2761271	-11.36

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921189 File : 111507rrrr Time : 15-NOV-2007 21:46
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	ND	5.000	0.1113	ug/L	
Beryllium	A	[0.1072]	2.000	0.04231	ug/L	!ib
Boron	A	[9.399]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.3232]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	[1.195]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[3.270]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	[4.240]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.458]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[11.68]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[131.0]	500.0	39.71	ug/L	!ib
Sodium	R	[46.81]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2955893	-5.12

!=warning ib=instrument blank

97459921189

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921201 File : 111507rrrr Time : 15-NOV-2007 22:34
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.092	5000	4802	ug/L	-4	10	
Arsenic	A	11.401	12.178	5000	4991	ug/L	0	10	
Barium	A	111.40	104.47	5000	4819	ug/L	-4	10	
Beryllium	A	5098.2	4998.9	500.0	490.2	ug/L	-2	10	
Boron	A	225.89	229.07	5000	4910	ug/L	-2	10	
Cadmium	A	200.83	191.92	5000	4835	ug/L	-3	10	
Chromium	A	194.76	187.66	5000	4748	ug/L	-5	10	
Cobalt	A	65.705	61.893	5000	4707	ug/L	-6	10	
Copper	A	203.59	197.69	5000	4780	ug/L	-4	10	
Lead	A	62.998	62.806	5000	4859	ug/L	-3	10	
Manganese	A	581.67	534.64	5000	4769	ug/L	-5	10	
Molybdenum	A	49.220	46.671	5000	4870	ug/L	-3	10	
Nickel	A	99.092	94.221	5000	4732	ug/L	-5	10	
Selenium	A	18.695	16.080	5000	4894	ug/L	-2	10	
Silver	A	574.15	566.03	1000	977.0	ug/L	-2	10	
Thallium	A	13.010	11.826	5000	4799	ug/L	-4	10	
Tin	A	21.871	21.854	5000	4779	ug/L	-4	10	
Titanium	A	816.85	774.51	5000	4729	ug/L	-5	10	
Vanadium	A	232.84	228.66	5000	4791	ug/L	-4	10	
Zinc	A	114.72	92.740	5000	4679	ug/L	-6	10	
Aluminum	R	0.8491	0.7186	20000	18580	ug/L	-7	10	
Calcium	R	9.4142	8.0005	20000	18710	ug/L	-6	10	
Iron	R	2.7465	2.3735	20000	18080	ug/L	-10	10	
Magnesium	R	1.3588	1.2169	20000	18530	ug/L	-7	10	
Potassium	R	2.8010	2.3283	20000	18360	ug/L	-8	10	
Sodium	R	293.87	274.97	20000	19440	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2806087	-9.93

97459921201

00178

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921203 File : 111507rrrr Time : 15-NOV-2007 22:41
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.3165]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1553]	2.000	0.04231	ug/L	!ib
Boron	A	[7.320]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.5253]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	[1.689]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[2.720]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.9495]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.170]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[1.793]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[9.595]	100.0	6.086	ug/L	!ib
Magnesium	R	[13.00]	200.0	10.47	ug/L	!ib
Potassium	R	[104.7]	500.0	39.71	ug/L	!ib
Sodium	R	[70.31]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2917891	-6.34

!=warning ib=instrument blank

97459921203

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 97459921206
Cal : 97459921001
Standards: S7324

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 15-NOV-2007 22:53

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	455.1	ug/L	-9	20	
Arsenic	A	500.0	505.8	ug/L	1	20	
Barium	A	500.0	499.8	ug/L	0	20	
Beryllium	A	500.0	513.4	ug/L	3	20	
Cadmium	A	1000	950.8	ug/L	-5	20	
Chromium	A	500.0	479.1	ug/L	-4	20	
Cobalt	A	500.0	444.1	ug/L	-11	20	
Copper	A	500.0	517.0	ug/L	3	20	
Lead	A	1000	887.6	ug/L	-11	20	
Manganese	A	500.0	496.8	ug/L	-1	20	
Molybdenum	A	500.0	509.9	ug/L	2	20	
Nickel	A	1000	906.3	ug/L	-9	20	
Selenium	A	500.0	481.6	ug/L	-4	20	
Silver	A	1000	1035	ug/L	3	20	
Thallium	A	500.0	461.6	ug/L	-8	20	
Titanium	A	20000	18950	ug/L	-5		
Vanadium	A	500.0	508.3	ug/L	2	20	
Zinc	A	1000	956.5	ug/L	-4	20	
Aluminum	R	500000	477400	ug/L	-5		
Calcium	R	500000	458400	ug/L	-8		
Iron	R	200000	176300	ug/L	-12		
Magnesium	R	500000	448500	ug/L	-10		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2461860	-20.98

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921208 File : 111507rrrr Time : 15-NOV-2007 23:00
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	19.618	5000	4689	ug/L	-6	10	
Arsenic	A	11.401	11.877	5000	4868	ug/L	-3	10	
Barium	A	111.40	104.20	5000	4807	ug/L	-4	10	
Beryllium	A	5098.2	5010.4	500.0	491.4	ug/L	-2	10	
Boron	A	225.89	228.40	5000	4896	ug/L	-2	10	
Cadmium	A	200.83	192.78	5000	4857	ug/L	-3	10	
Chromium	A	194.76	187.06	5000	4732	ug/L	-5	10	
Cobalt	A	65.705	60.351	5000	4589	ug/L	-8	10	
Copper	A	203.59	197.18	5000	4768	ug/L	-5	10	
Lead	A	62.998	60.814	5000	4705	ug/L	-6	10	
Manganese	A	581.67	538.72	5000	4805	ug/L	-4	10	
Molybdenum	A	49.220	45.600	5000	4759	ug/L	-5	10	
Nickel	A	99.092	93.872	5000	4714	ug/L	-6	10	
Selenium	A	18.695	15.440	5000	4699	ug/L	-6	10	
Silver	A	574.15	549.72	1000	948.8	ug/L	-5	10	
Thallium	A	13.010	11.550	5000	4687	ug/L	-6	10	
Tin	A	21.871	21.356	5000	4670	ug/L	-7	10	
Titanium	A	816.85	780.43	5000	4766	ug/L	-5	10	
Vanadium	A	232.84	227.36	5000	4763	ug/L	-5	10	
Zinc	A	114.72	92.667	5000	4675	ug/L	-7	10	
Aluminum	R	0.8491	0.7203	20000	18620	ug/L	-7	10	
Calcium	R	9.4142	8.0613	20000	18850	ug/L	-6	10	
Iron	R	2.7465	2.3941	20000	18240	ug/L	-9	10	
Magnesium	R	1.3588	1.2299	20000	18730	ug/L	-6	10	
Potassium	R	2.8010	2.3373	20000	18430	ug/L	-8	10	
Sodium	R	293.87	274.54	20000	19410	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2835208	-8.99

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921210 File : 111507rrrr Time : 15-NOV-2007 23:08
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.6498]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2017]	2.000	0.04231	ug/L	!ib
Boron	A	[7.206]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.8802]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.5575]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.4976]	5.000	0.3034	ug/L	!ib
Copper	A	[1.564]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.7192]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.902]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.9316]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[8.897]	100.0	6.086	ug/L	!ib
Magnesium	R	[15.20]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	[59.06]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2951713	-5.25

!=warning ib=instrument blank

97459921210

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921222 File : 111507rrrr Time : 15-NOV-2007 23:43
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	20.546	5000	4910	ug/L	-2	10	
Arsenic	A	11.401	12.323	5000	5051	ug/L	1	10	
Barium	A	111.40	105.88	5000	4884	ug/L	-2	10	
Beryllium	A	5098.2	5103.4	500.0	500.5	ug/L	0	10	
Boron	A	225.89	231.84	5000	4969	ug/L	-1	10	
Cadmium	A	200.83	195.82	5000	4933	ug/L	-1	10	
Chromium	A	194.76	189.68	5000	4799	ug/L	-4	10	
Cobalt	A	65.705	62.516	5000	4754	ug/L	-5	10	
Copper	A	203.59	199.21	5000	4817	ug/L	-4	10	
Lead	A	62.998	63.181	5000	4888	ug/L	-2	10	
Manganese	A	581.67	546.34	5000	4873	ug/L	-3	10	
Molybdenum	A	49.220	47.276	5000	4934	ug/L	-1	10	
Nickel	A	99.092	95.748	5000	4808	ug/L	-4	10	
Selenium	A	18.695	16.203	5000	4931	ug/L	-1	10	
Silver	A	574.15	562.53	1000	970.9	ug/L	-3	10	
Thallium	A	13.010	11.946	5000	4848	ug/L	-3	10	
Tin	A	21.871	22.138	5000	4841	ug/L	-3	10	
Titanium	A	816.85	790.51	5000	4827	ug/L	-3	10	
Vanadium	A	232.84	230.24	5000	4824	ug/L	-4	10	
Zinc	A	114.72	95.128	5000	4799	ug/L	-4	10	
Aluminum	R	0.8491	0.7196	20000	18610	ug/L	-7	10	
Calcium	R	9.4142	8.1325	20000	19020	ug/L	-5	10	
Iron	R	2.7465	2.4396	20000	18580	ug/L	-7	10	
Magnesium	R	1.3588	1.2399	20000	18880	ug/L	-6	10	
Potassium	R	2.8010	2.3383	20000	18430	ug/L	-8	10	
Sodium	R	293.87	275.19	20000	19460	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2915995	-6.40

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921224 File : 111507rrrr Time : 15-NOV-2007 23:50
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.8736]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1612]	2.000	0.04231	ug/L	!ib
Boron	A	[10.72]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.9746]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.8457]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.7957]	5.000	0.3034	ug/L	!ib
Copper	A	[1.634]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[1.031]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.459]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.229]	5.000	0.3660	ug/L	!ib
Selenium	A	[3.232]	5.000	1.469	ug/L	!ib
Silver	A	[0.8181]	5.000	0.7459	ug/L	!ib
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.030]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[0.8684]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[13.06]	100.0	6.086	ug/L	!ib
Magnesium	R	[23.55]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	[27.00]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2941883	-5.57

!=warning ib=instrument blank

97459921224

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 97459921234
Cal : 97459921001
Standards: S7324

File : 111507rrrr
Caldate : 15-NOV-2007

IDF : 1.0
Time : 16-NOV-2007 00:21

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	490.9	ug/L	-2	20	
Arsenic	A	500.0	525.6	ug/L	5	20	
Barium	A	500.0	508.9	ug/L	2	20	
Beryllium	A	500.0	515.8	ug/L	3	20	
Cadmium	A	1000	966.1	ug/L	-3	20	
Chromium	A	500.0	482.7	ug/L	-3	20	
Cobalt	A	500.0	452.3	ug/L	-10	20	
Copper	A	500.0	516.8	ug/L	3	20	
Lead	A	1000	907.4	ug/L	-9	20	
Manganese	A	500.0	501.9	ug/L	0	20	
Molybdenum	A	500.0	521.5	ug/L	4	20	
Nickel	A	1000	913.6	ug/L	-9	20	
Selenium	A	500.0	505.5	ug/L	1	20	
Silver	A	1000	1044	ug/L	4	20	
Thallium	A	500.0	470.6	ug/L	-6	20	
Titanium	A	20000	19330	ug/L	-3		
Vanadium	A	500.0	511.5	ug/L	2	20	
Zinc	A	1000	967.2	ug/L	-3	20	
Aluminum	R	500000	477800	ug/L	-4		
Calcium	R	500000	455700	ug/L	-9		
Iron	R	200000	178500	ug/L	-11		
Magnesium	R	500000	445900	ug/L	-11		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2486244	-20.19

97459921234

00195

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921236 File : 111507rrrr Time : 16-NOV-2007 00:28
Cal : 97459921001 Caldate : 15-NOV-2007
Standards: S7684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	21.317	19.534	5000	4669	ug/L	-7	10	
Arsenic	A	11.401	11.814	5000	4842	ug/L	-3	10	
Barium	A	111.40	105.72	5000	4877	ug/L	-2	10	
Beryllium	A	5098.2	5093.8	500.0	499.5	ug/L	0	10	
Boron	A	225.89	232.57	5000	4985	ug/L	0	10	
Cadmium	A	200.83	197.13	5000	4966	ug/L	-1	10	
Chromium	A	194.76	189.68	5000	4799	ug/L	-4	10	
Cobalt	A	65.705	59.838	5000	4550	ug/L	-9	10	
Copper	A	203.59	199.03	5000	4813	ug/L	-4	10	
Lead	A	62.998	60.245	5000	4661	ug/L	-7	10	
Manganese	A	581.67	549.23	5000	4899	ug/L	-2	10	
Molybdenum	A	49.220	46.018	5000	4802	ug/L	-4	10	
Nickel	A	99.092	95.529	5000	4797	ug/L	-4	10	
Selenium	A	18.695	15.391	5000	4684	ug/L	-6	10	
Silver	A	574.15	549.82	1000	949.0	ug/L	-5	10	
Thallium	A	13.010	11.414	5000	4632	ug/L	-7	10	
Tin	A	21.871	21.156	5000	4626	ug/L	-7	10	
Titanium	A	816.85	792.35	5000	4838	ug/L	-3	10	
Vanadium	A	232.84	230.75	5000	4835	ug/L	-3	10	
Zinc	A	114.72	94.373	5000	4761	ug/L	-5	10	
Aluminum	R	0.8491	0.7632	20000	19740	ug/L	-1	10	
Calcium	R	9.4142	8.5541	20000	20010	ug/L	0	10	
Iron	R	2.7465	2.5993	20000	19800	ug/L	-1	10	
Magnesium	R	1.3588	1.3008	20000	19810	ug/L	-1	10	
Potassium	R	2.8010	2.4845	20000	19590	ug/L	-2	10	
Sodium	R	293.87	287.32	20000	20320	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	2866972	-7.97

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97459921238 File : 111507rrrr Time : 16-NOV-2007 00:35
Cal : 97459921001 Caldate : 15-NOV-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.274]	5.000	1.074	ug/L	!ib
Arsenic	A	[1.953]	5.000	1.320	ug/L	!ib
Barium	A	[1.286]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2150]	2.000	0.04231	ug/L	!ib
Boron	A	[9.566]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.412]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.082]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.183]	5.000	0.3034	ug/L	!ib
Copper	A	[2.019]	5.000	0.8535	ug/L	!ib
Lead	A	[0.7146]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.545]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.588]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.576]	5.000	0.3660	ug/L	!ib
Selenium	A	[3.628]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[3.258]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.773]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.138]	5.000	1.034	ug/L	!ib
Zinc	A	[1.311]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[18.93]	100.0	6.086	ug/L	!ib
Magnesium	R	[22.92]	200.0	10.47	ug/L	!ib
Potassium	R	[119.1]	500.0	39.71	ug/L	!ib
Sodium	R	[32.66]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115297	3011539	-3.33

!=warning ib=instrument blank

97459921238

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97459921 Instrument: MET09 PE ICP MET09 Begun: 15-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	111507rr	ICALBLK				15-NOV-2007 09:21	1.0	1.0					
002	111507rr	ICAL	CRIM08			15-NOV-2007 09:25	1.0	1.0				1	
003	111507rr	ICAL	CS100			15-NOV-2007 09:29	1.0	1.0				2	
004	111507rr	ICAL	CS1K			15-NOV-2007 09:32	1.0	1.0				3	
005	111507rr	ICAL	CS10K			15-NOV-2007 09:34	1.0	1.0				4	
006	111507rr	ICAL	CS100K			15-NOV-2007 09:37	1.0	1.0				5	
007	111507rr	ICV				15-NOV-2007 09:40	1.0	1.0			5000	6	
008	111507rr	ICB				15-NOV-2007 09:49	1.0	1.0			5000		
009	111507rr	ICSA				15-NOV-2007 10:06	1.0	1.0			5000	7	10:AL=488751
010	111507rr	ICSAB				15-NOV-2007 10:08	1.0	1.0			5000	8	5:AL=494691
011	111507rr	MSS	199252-002	131752	Soil	15-NOV-2007 10:40	10.0	45.87			5000		
012	111507rr	SER	QC415521	131752	Soil	15-NOV-2007 10:43	50.0	45.87			5000		
013	111507rr	PDS	QC415522	131752	Soil	15-NOV-2007 10:46	10.0	45.87			5000	9 10	
014	111507rr	SAMPLE	199252-003	131752	Soil	15-NOV-2007 10:48	10.0	50.0			5000		
015	111507rr	SAMPLE	199252-004	131752	Soil	15-NOV-2007 10:51	1.0	49.02			5000		1:FE=208644
016	111507rr	ICSAB				15-NOV-2007 10:54	1.0	1.0			5000	8	5:AL=499816
017	111507rr	X	RINSE			15-NOV-2007 10:59	1.0						
018	111507rr	CCV				15-NOV-2007 11:02	1.0	1.0			5000	11	
019	111507rr	X	FLUSH			15-NOV-2007 11:05	1.0						
020	111507rr	CCB				15-NOV-2007 11:09	1.0	1.0			5000		
021	111507rr	BLANK	QC415505	131750	Soil	15-NOV-2007 11:26	1.0	50.0			5000		
022	111507rr	BS	QC415506	131750	Soil	15-NOV-2007 11:29	1.0	50.0			5000		
023	111507rr	BSD	QC415507	131750	Soil	15-NOV-2007 11:31	1.0	50.0			5000		
024	111507rr	MSS	199157-002	131750	Soil	15-NOV-2007 11:34	1.0	47.62	2		5000		2:FE=180069
025	111507rr	SER	QC415510	131750	Soil	15-NOV-2007 11:38	5.0	47.62		1	5000		1:ZN=29662.2
026	111507rr	MS	QC415508	131750	Soil	15-NOV-2007 11:42	1.0	46.73			5000		3:FE=191754
027	111507rr	MSD	QC415509	131750	Soil	15-NOV-2007 11:45	1.0	45.87			5000		3:FE=194076
028	111507rr	PDS	QC415511	131750	Soil	15-NOV-2007 11:48	1.0	47.62			5000	9 10	2:FE=194838
029	111507rr	X	RINSE			15-NOV-2007 11:51	1.0						
030	111507rr	CCV				15-NOV-2007 11:55	1.0	1.0			5000	11	
031	111507rr	X	FLUSH			15-NOV-2007 11:58	1.0						

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7683 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684 12=S6920 13=S6921

Analyst: _____ Date: 11/16/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97459921 Instrument: MET09 PE ICP MET09 Begun: 15-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	111507rr	CCB				15-NOV-2007 12:02	1.0	1.0		5000		
033	111507rr	MSS	199157-002	131750	Soil	15-NOV-2007 12:06	20.0	47.62		5000		
034	111507rr	SER	QC415510	131750	Soil	15-NOV-2007 12:09	100.0	47.62		5000		
035	111507rr	PDS	QC415511	131750	Soil	15-NOV-2007 12:12	20.0	47.62		5000	9 10	
036	111507rr	SAMPLE	199160-001	131750	Miscel	15-NOV-2007 12:14	1.0	47.62	2	5000		4:PB=343870
037	111507rr	X	RINSE			15-NOV-2007 12:19	1.0					
038	111507rr	SAMPLE	199160-001	131750	Miscel	15-NOV-2007 12:22	100.0	47.62		5000		
039	111507rr	ICSAB				15-NOV-2007 12:25	1.0	1.0		5000	8	5:AL=514471
040	111507rr	X	RINSE			15-NOV-2007 12:28	1.0					
041	111507rr	CCV				15-NOV-2007 12:32	1.0	1.0		5000	11	
042	111507rr	X	FLUSH			15-NOV-2007 12:35	1.0					
043	111507rr	X				15-NOV-2007 12:39	1.0					
044	111507rr	X				15-NOV-2007 12:42	1.0					
045	111507rr	X				15-NOV-2007 12:50	1.0					
046	111507rr	CCB				15-NOV-2007 12:55	1.0	1.0	1	5000		
047	111507rr	SAMPLE	198932-001	131601	Fuels	15-NOV-2007 13:03	100.0	2.278	2	5000		2:V=17740.4
048	111507rr	ICSAB				15-NOV-2007 13:07	1.0	1.0		5000	8	5:AL=507256
049	111507rr	CCV				15-NOV-2007 13:10	1.0	1.0		5000	11	
050	111507rr	CCB				15-NOV-2007 13:14	1.0	1.0	1	5000		
051	111507rr	ICSAB				15-NOV-2007 13:31	1.0	1.0		5000	8	5:AL=511661
052	111507rr	X	RINSE			15-NOV-2007 13:35	1.0					
053	111507rr	CCV				15-NOV-2007 13:38	1.0	1.0		5000	11	
054	111507rr	X	FLUSH			15-NOV-2007 13:42	1.0					
055	111507rr	X				15-NOV-2007 13:46	1.0	1.0	1	5000		
056	111507rr	CCB				15-NOV-2007 13:49	1.0	1.0		5000		
057	111507rr	SAMPLE	199190-001	131750	Soil	15-NOV-2007 14:04	1.0	45.45		5000		6:FE=547666
058	111507rr	SAMPLE	199190-002	131750	Soil	15-NOV-2007 14:07	1.0	49.02	2	5000		5:FE=499770
059	111507rr	SAMPLE	199190-003	131750	Soil	15-NOV-2007 14:09	1.0	44.64	1	5000		5:FE=447435
060	111507rr	SAMPLE	199193-001	131750	Soil	15-NOV-2007 14:11	1.0	47.62		5000		3:FE=498321
061	111507rr	SAMPLE	199194-001	131750	Miscel	15-NOV-2007 14:14	1.0	47.62		5000		1:AL=152275
062	111507rr	SAMPLE	199196-001	131750	Soil	15-NOV-2007 14:17	10.0	47.62	1	5000		2:CA=331767

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7683 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684 12=S6920 13=S6921

Analyst: _____ Date: 11/16/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97459921 Instrument: MET09 PE ICP MET09 Begun: 15-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	111507rr	SAMPLE	199200-001	131750	Miscel	15-NOV-2007 14:20	1.0	48.08		5000	1:FE=598391	
064	111507rr	SAMPLE	199202-021	131750	Soil	15-NOV-2007 14:23	1.0	48.08	1	5000	3:FE=247682	
065	111507rr	X	RINSE			15-NOV-2007 14:26	1.0					
066	111507rr	CCV				15-NOV-2007 14:30	1.0	1.0		5000	11	
067	111507rr	X	FLUSH			15-NOV-2007 14:33	1.0					
068	111507rr	CCB				15-NOV-2007 14:37	1.0	1.0		5000		
069	111507rr	SAMPLE	199202-022	131750	Soil	15-NOV-2007 14:41	1.0	47.62	1	5000	4:FE=325231	
070	111507rr	SAMPLE	199202-023	131750	Soil	15-NOV-2007 14:44	1.0	45.87		5000	3:FE=314386	
071	111507rr	SAMPLE	199202-024	131750	Soil	15-NOV-2007 14:47	1.0	46.73	1	5000	4:FE=367862	
072	111507rr	ICSAB				15-NOV-2007 14:50	1.0	1.0		5000	8 5:AL=500993	
073	111507rr	X	RINSE			15-NOV-2007 14:54	1.0					
074	111507rr	CCV				15-NOV-2007 14:58	1.0	1.0		5000	11	
075	111507rr	X	FLUSH			15-NOV-2007 15:01	1.0					
076	111507rr	CCB				15-NOV-2007 15:05	1.0	1.0		5000		
077	111507rr	BLANK	QC415701	131791	TCLP L	15-NOV-2007 15:12	10.0	1.0	2	5000	1:NA=158576	
078	111507rr	BS	QC415702	131791	TCLP L	15-NOV-2007 15:16	1.0	1.0		5000		
079	111507rr	BSD	QC415703	131791	TCLP L	15-NOV-2007 15:18	1.0	1.0		5000		
080	111507rr	MSS	199090-009	131791	TCLP L	15-NOV-2007 15:20	10.0	1.0	1	5000	1:NA=149342	
081	111507rr	MS	QC415704	131791	TCLP L	15-NOV-2007 15:24	10.0	1.0		5000	1:NA=162682	
082	111507rr	MSD	QC415705	131791	TCLP L	15-NOV-2007 15:27	10.0	1.0		5000	1:NA=168750	
083	111507rr	SAMPLE	199126-003	131791	TCLP L	15-NOV-2007 15:30	10.0	1.0		5000	1:NA=168619	
084	111507rr	SAMPLE	199126-006	131791	TCLP L	15-NOV-2007 15:34	10.0	1.0		5000	1:NA=175539	
085	111507rr	SAMPLE	199159-001	131791	TCLP L	15-NOV-2007 15:39	10.0	1.0		5000	1:NA=152936	
086	111507rr	SAMPLE	199185-001	131791	TCLP L	15-NOV-2007 15:43	10.0	1.0		5000	1:NA=154752	
087	111507rr	ICSAB				15-NOV-2007 15:47	1.0	1.0		5000	8 5:AL=484665	
088	111507rr	X	RINSE			15-NOV-2007 15:50	1.0					
089	111507rr	CCV				15-NOV-2007 15:54	1.0	1.0		5000	11	
090	111507rr	X	FLUSH			15-NOV-2007 15:57	1.0					
091	111507rr	CCB				15-NOV-2007 16:01	1.0	1.0		5000		
092	111507rr	SAMPLE	199190-001	131750	Soil	15-NOV-2007 16:07	1.0	45.45	1	5000	6:FE=541650	
093	111507rr	SAMPLE	199190-002	131750	Soil	15-NOV-2007 16:09	1.0	49.02		5000	5:FE=439647	

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7683 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684 12=S6920 13=S6921

Analyst: _____ Date: 11/16/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97459921 Instrument: MET09 PE ICP MET09 Begun: 15-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	111507rr	SAMPLE	199190-003	131750	Soil	15-NOV-2007 16:11	1.0	44.64	1	5000		5:FE=420842
095	111507rr	SAMPLE	199196-001	131750	Soil	15-NOV-2007 16:13	100.0	47.62		5000		
096	111507rr	SAMPLE	199202-021	131750	Soil	15-NOV-2007 16:16	1.0	48.08		5000		3:FE=282014
097	111507rr	SAMPLE	199202-022	131750	Soil	15-NOV-2007 16:20	1.0	47.62	1	5000		3:FE=302434
098	111507rr	SAMPLE	199202-024	131750	Soil	15-NOV-2007 16:23	1.0	46.73	1	5000		4:FE=302540
099	111507rr	ICSAB				15-NOV-2007 16:26	1.0	1.0		5000	8	5:AL=509686
100	111507rr	X	RINSE			15-NOV-2007 16:29	1.0					
101	111507rr	CCV				15-NOV-2007 16:33	1.0	1.0		5000	11	
102	111507rr	X	FLUSH			15-NOV-2007 16:36	1.0					
103	111507rr	CCB				15-NOV-2007 16:40	1.0	1.0		5000		
104	111507rr	BLANK	QC415731	131797	Water	15-NOV-2007 16:44	1.0	1.0		5000		
105	111507rr	BS	QC415732	131797	Water	15-NOV-2007 16:48	1.0	1.0		5000		
106	111507rr	BSD	QC415733	131797	Water	15-NOV-2007 16:51	1.0	1.0		5000		
107	111507rr	MSS	199261-001	131797	Water	15-NOV-2007 16:54	1.0	1.0	3	5000		2:NA=230571
108	111507rr	MS	QC415734	131797	Water	15-NOV-2007 16:57	1.0	1.0		5000		2:NA=252035
109	111507rr	MSD	QC415735	131797	Water	15-NOV-2007 17:00	1.0	1.0		5000		2:NA=243486
110	111507rr	SAMPLE	199262-001	131797	Water	15-NOV-2007 17:03	1.0	1.0		5000		3:NA=391871
111	111507rr	SAMPLE	199264-001	131797	Water	15-NOV-2007 17:06	1.0	1.0		5000		2:NA=279792
112	111507rr	SAMPLE	199265-001	131797	Water	15-NOV-2007 17:09	1.0	1.0		5000		2:NA=303193
113	111507rr	MSS	199261-001	131797	Water	15-NOV-2007 17:12	1.0	1.0	3	5000		2:NA=229417
114	111507rr	ICSAB				15-NOV-2007 17:16	1.0	1.0		5000	8	5:AL=495510
115	111507rr	X	RINSE			15-NOV-2007 17:19	1.0					
116	111507rr	CCV				15-NOV-2007 17:23	1.0	1.0		5000	11	
117	111507rr	X	FLUSH			15-NOV-2007 17:26	1.0					
118	111507rr	CCB				15-NOV-2007 17:29	1.0	1.0		5000		
119	111507rr	BLANK	QC415661	131783	Water	15-NOV-2007 17:33	1.0	1.0		5000		
120	111507rr	BS	QC415662	131783	Water	15-NOV-2007 17:37	1.0	1.0		5000		
121	111507rr	BSD	QC415663	131783	Water	15-NOV-2007 17:40	1.0	1.0		5000		
122	111507rr	MSS	199112-001	131783	Water	15-NOV-2007 17:43	1.0	1.0		5000		
123	111507rr	MS	QC415664	131783	Water	15-NOV-2007 17:47	1.0	1.0		5000		
124	111507rr	MSD	QC415665	131783	Water	15-NOV-2007 17:50	1.0	1.0		5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7683 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684 12=S6920 13=S6921

Analyst: _____ Date: 11/16/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97459921 Instrument: MET09 PE ICP MET09 Begun: 15-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
125	111507rr	SER	QC415666	131783	Water	15-NOV-2007 17:53	5.0	1.0		5000		
126	111507rr	PDS	QC415667	131783	Water	15-NOV-2007 17:57	1.0	1.0		5000	12 13	
127	111507rr	SAMPLE	199112-002	131783	Water	15-NOV-2007 18:00	1.0	1.0		5000		
128	111507rr	SAMPLE	199112-003	131783	Water	15-NOV-2007 18:04	1.0	1.0		5000		
129	111507rr	X	RINSE			15-NOV-2007 18:08	1.0					
130	111507rr	CCV				15-NOV-2007 18:12	1.0	1.0		5000	11	
131	111507rr	X	FLUSH			15-NOV-2007 18:15	1.0					
132	111507rr	CCB				15-NOV-2007 18:19	1.0	1.0		5000		
133	111507rr	SAMPLE	199112-004	131783	Water	15-NOV-2007 18:23	1.0	1.0		5000		
134	111507rr	SAMPLE	199171-004	131783	Water	15-NOV-2007 18:27	1.0	1.0		5000		2:NA=373694
135	111507rr	SAMPLE	199171-005	131783	Water	15-NOV-2007 18:31	1.0	1.0		5000		3:NA=388221
136	111507rr	SAMPLE	199171-006	131783	Water	15-NOV-2007 18:35	1.0	1.0		5000		3:NA=329603
137	111507rr	SAMPLE	199171-007	131783	Water	15-NOV-2007 18:39	1.0	1.0		5000		3:CA=349601
138	111507rr	SAMPLE	199171-008	131783	Water	15-NOV-2007 18:43	1.0	1.0		5000		3:CA=616172
139	111507rr	SAMPLE	199171-009	131783	Water	15-NOV-2007 18:47	1.0	1.0		5000		3:NA=363815
140	111507rr	SAMPLE	199195-001	131783	Water	15-NOV-2007 18:51	1.0	1.0		5000		1:NA=215532
141	111507rr	SAMPLE	199195-002	131783	Water	15-NOV-2007 18:54	1.0	1.0		5000		1:NA=241848
142	111507rr	X	RINSE			15-NOV-2007 18:57	1.0					
143	111507rr	ICSAB				15-NOV-2007 19:01	1.0	1.0		5000	8	5:AL=480346
144	111507rr	X	RINSE			15-NOV-2007 19:04	1.0					
145	111507rr	X				15-NOV-2007 19:08	1.0	1.0		5000	11	
146	111507rr	CCV				15-NOV-2007 19:12	1.0	1.0		5000	11	
147	111507rr	X	FLUSH			15-NOV-2007 19:15	1.0					
148	111507rr	X				15-NOV-2007 19:19	1.0					
149	111507rr	CCB				15-NOV-2007 19:22	1.0	1.0		5000		
150	111507rr	BLANK	QC415772	131809	Water	15-NOV-2007 19:27	1.0	1.0		5000		
151	111507rr	BS	QC415773	131809	Water	15-NOV-2007 19:31	1.0	1.0		5000		
152	111507rr	BSD	QC415774	131809	Water	15-NOV-2007 19:34	1.0	1.0		5000		
153	111507rr	MSS	199293-002	131809	Water	15-NOV-2007 19:37	1.0	1.0	2	5000		1:NA=254190
154	111507rr	MS	QC415775	131809	Water	15-NOV-2007 19:40	1.0	1.0	1	5000		1:NA=273729
155	111507rr	MSD	QC415776	131809	Water	15-NOV-2007 19:43	1.0	1.0	1	5000		1:NA=271446

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7683 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684 12=S6920 13=S6921

Analyst: _____ Date: 11/16/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97459921 Instrument: MET09 PE ICP MET09 Begun: 15-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
156	111507rr	SAMPLE	199293-001	131809	Water	15-NOV-2007 19:46	1.0	1.0			5000		1:NA=213092
157	111507rr	ICSAB				15-NOV-2007 19:49	1.0	1.0			5000	8	5:AL=483921
158	111507rr	X	RINSE			15-NOV-2007 19:53	1.0						
159	111507rr	CCV				15-NOV-2007 19:56	1.0	1.0			5000	11	
160	111507rr	X	FLUSH			15-NOV-2007 20:00	1.0						
161	111507rr	CCB				15-NOV-2007 20:03	1.0	1.0			5000		
162	111507rr	BLANK	QC415638	131779	Water	15-NOV-2007 20:08	1.0	1.0			5000		
163	111507rr	BS	QC415639	131779	Water	15-NOV-2007 20:12	1.0	1.0			5000		
164	111507rr	BSD	QC415640	131779	Water	15-NOV-2007 20:15	1.0	1.0			5000		
165	111507rr	MSS	199252-001	131779	Water	15-NOV-2007 20:18	1.0	1.0			5000		
166	111507rr	X	NO SAMPLE	131779	Water	15-NOV-2007 20:22	1.0	1.0	21	26	5000		
167	111507rr	X	QC415642	131779	Water	15-NOV-2007 20:26	1.0	1.0	22	26	5000		
168	111507rr	SER	QC415643	131779	Water	15-NOV-2007 20:30	5.0	1.0			5000		
169	111507rr	PDS	QC415644	131779	Water	15-NOV-2007 20:34	1.0	1.0			5000	12 13	
170	111507rr	X	RINSE			15-NOV-2007 20:37	1.0						
171	111507rr	CCV				15-NOV-2007 20:41	1.0	1.0			5000	11	
172	111507rr	X	FLUSH			15-NOV-2007 20:44	1.0						
173	111507rr	X				15-NOV-2007 20:48	1.0						
174	111507rr	CCB				15-NOV-2007 20:51	1.0	1.0			5000		
175	111507rr	SAMPLE	199252-028	131779	Water	15-NOV-2007 20:55	1.0	1.0			5000		
176	111507rr	SAMPLE	199255-001	131779	Water	15-NOV-2007 20:59	1.0	1.0	1		5000		1:CA=172988
177	111507rr	MS	QC415641	131779	Water	15-NOV-2007 21:04	1.0	1.0			5000		
178	111507rr	MSD	QC415642	131779	Water	15-NOV-2007 21:07	1.0	1.0			5000		
179	111507rr	SAMPLE	199266-002	131779	Water	15-NOV-2007 21:10	1.0	1.0			5000		4:NA=210513
180	111507rr	SAMPLE	199266-003	131779	Water	15-NOV-2007 21:13	1.0	1.0			5000		3:NA=719020
181	111507rr	SAMPLE	199266-004	131779	Water	15-NOV-2007 21:18	1.0	1.0			5000		4:NA=208053
182	111507rr	SAMPLE	199266-005	131779	Water	15-NOV-2007 21:21	1.0	1.0			5000		4:MG=196052
183	111507rr	SAMPLE	199266-006	131779	Water	15-NOV-2007 21:25	1.0	1.0			5000		
184	111507rr	SAMPLE	199266-007	131779	Water	15-NOV-2007 21:29	1.0	1.0			5000		2:MG=869951
185	111507rr	X	RINSE			15-NOV-2007 21:34	1.0						
186	111507rr	X				15-NOV-2007 21:38	1.0					11	

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7683 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684 12=S6920 13=S6921

Analyst: _____ Date: 11/16/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97459921 Instrument: MET09 PE ICP MET09 Begun: 15-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
187	111507rr	CCV				15-NOV-2007 21:39	1.0	1.0			5000	11	
188	111507rr	X	FLUSH			15-NOV-2007 21:42	1.0						
189	111507rr	CCB				15-NOV-2007 21:46	1.0	1.0			5000		
190	111507rr	SAMPLE	199078-006	131779	Filtra	15-NOV-2007 21:50	1.0	1.0	2		5000		
191	111507rr	SAMPLE	199078-007	131779	Filtra	15-NOV-2007 21:54	1.0	1.0			5000		
192	111507rr	SAMPLE	199122-001	131779	Filtra	15-NOV-2007 21:58	1.0	1.0			5000		
193	111507rr	SAMPLE	199266-002	131779	Filtra	15-NOV-2007 22:02	1.0	1.0			5000		4:NA=227513
194	111507rr	SAMPLE	199266-003	131779	Filtra	15-NOV-2007 22:05	1.0	1.0			5000		3:NA=765205
195	111507rr	SAMPLE	199266-004	131779	Filtra	15-NOV-2007 22:11	1.0	1.0	1		5000		4:NA=209075
196	111507rr	SAMPLE	199266-005	131779	Filtra	15-NOV-2007 22:14	1.0	1.0			5000		4:MG=189004
197	111507rr	X	RINSE			15-NOV-2007 22:17	1.0						
198	111507rr	SAMPLE	199255-001	131779	Water	15-NOV-2007 22:21	1.0	1.0			5000		1:CA=173779
199	111507rr	SAMPLE	199078-006	131779	Filtra	15-NOV-2007 22:25	1.0	1.0			5000		
200	111507rr	X	RINSE			15-NOV-2007 22:30	1.0						
201	111507rr	CCV				15-NOV-2007 22:34	1.0	1.0			5000	11	
202	111507rr	X	FLUSH			15-NOV-2007 22:37	1.0						
203	111507rr	CCB				15-NOV-2007 22:41	1.0	1.0			5000		
204	111507rr	SAMPLE	199266-003	131779	Filtra	15-NOV-2007 22:45	1.0	1.0			5000		3:NA=764138
205	111507rr	SAMPLE	199266-004	131779	Filtra	15-NOV-2007 22:50	1.0	1.0			5000		4:NA=207909
206	111507rr	ICSAB				15-NOV-2007 22:53	1.0	1.0			5000	8	5:AL=477360
207	111507rr	X	RINSE			15-NOV-2007 22:56	1.0						
208	111507rr	CCV				15-NOV-2007 23:00	1.0	1.0			5000	11	
209	111507rr	X	FLUSH			15-NOV-2007 23:03	1.0						
210	111507rr	CCB				15-NOV-2007 23:08	1.0	1.0			5000		
211	111507rr	BLANK	QC415800	131816	Soil	15-NOV-2007 23:13	1.0	50.0			5000		
212	111507rr	BS	QC415801	131816	Soil	15-NOV-2007 23:17	1.0	50.0			5000		
213	111507rr	BSD	QC415802	131816	Soil	15-NOV-2007 23:19	1.0	50.0			5000		
214	111507rr	MSS	199248-002	131816	Soil	15-NOV-2007 23:21	1.0	45.87	6		5000		6:FE=773654
215	111507rr	MS	QC415803	131816	Soil	15-NOV-2007 23:24	1.0	44.64		5	5000		6:FE=608427
216	111507rr	MSD	QC415804	131816	Soil	15-NOV-2007 23:26	1.0	48.08		4	5000		6:FE=645996
217	111507rr	MSS	199248-002	131816	Soil	15-NOV-2007 23:28	1.0	45.87	7		5000		6:FE=826469

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7683 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684 12=S6920 13=S6921

Analyst: _____ Date: 11/16/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97459921 Instrument: MET09 PE ICP MET09 Begun: 15-NOV-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
218	111507rr	SER	QC415805	131816	Soil	15-NOV-2007 23:30	5.0	45.87	1	8	5000		2:FE=216891
219	111507rr	PDS	QC415806	131816	Soil	15-NOV-2007 23:33	1.0	45.87		1	5000	9 10	6:FE=839299
220	111507rr	MSS	199248-002	131816	Soil	15-NOV-2007 23:36	10.0	45.87	4		5000		1:FE=113110
221	111507rr	X	RINSE			15-NOV-2007 23:39	1.0						
222	111507rr	CCV				15-NOV-2007 23:43	1.0	1.0			5000	11	
223	111507rr	X	FLUSH			15-NOV-2007 23:46	1.0						
224	111507rr	CCB				15-NOV-2007 23:50	1.0	1.0			5000		
225	111507rr	SER	QC415805	131816	Soil	15-NOV-2007 23:54	5.0	45.87		9	5000		2:FE=212805
226	111507rr	SAMPLE	199254-001	131816	Soil	15-NOV-2007 23:57	1.0	48.08			5000		3:CA=129682
227	111507rr	SAMPLE	199254-002	131816	Soil	16-NOV-2007 00:00	1.0	48.54			5000		3:FE=200671
228	111507rr	SAMPLE	199267-004	131816	Soil	16-NOV-2007 00:03	1.0	46.73			5000		5:CA=412962
229	111507rr	SAMPLE	199279-001	131816	Miscel	16-NOV-2007 00:05	1.0	48.08	1		5000		2:NA=229263
230	111507rr	SAMPLE	199279-002	131816	Miscel	16-NOV-2007 00:08	1.0	48.08	1		5000		1:V=11977.4
231	111507rr	SAMPLE	199292-001	131816	Soil	16-NOV-2007 00:11	1.0	45.87			5000		1:FE=166565
232	111507rr	SAMPLE	199292-002	131816	Soil	16-NOV-2007 00:14	1.0	48.54	1		5000		3:FE=476391
233	111507rr	SAMPLE	199292-003	131816	Soil	16-NOV-2007 00:17	1.0	49.50			5000		2:FE=380839
234	111507rr	ICSAB				16-NOV-2007 00:21	1.0	1.0			5000	8	5:AL=477820
235	111507rr	X	RINSE			16-NOV-2007 00:24	1.0						
236	111507rr	CCV				16-NOV-2007 00:28	1.0	1.0			5000	11	
237	111507rr	X	FLUSH			16-NOV-2007 00:31	1.0						
238	111507rr	CCB				16-NOV-2007 00:35	1.0	1.0			5000		

Stds used: 1=S7555 2=S7382 3=S7381 4=S7383 5=S7674 6=S7683 7=S7557 8=S7324 9=S6918 10=S6919 11=S7684 12=S6920 13=S6921

Analyst: Date: 11/16/07

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 199248 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN	
199248-002	MET04	11/15/07 14:17	1.0																		
199248-002	MET04	11/15/07 14:31	20.0										+								
199248-002	MET09	11/15/07 23:21	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
199248-002	MET09	11/15/07 23:28	1.0																		
199248-002	MET09	11/15/07 23:36	10.0																		
QC415649	MET04	11/15/07 13:15	1.0										+								
QC415650	MET04	11/15/07 13:17	1.0										+								
QC415651	MET04	11/15/07 13:19	1.0										+								
QC415652	MET04	11/15/07 13:24	5.0										+								
QC415653	MET04	11/15/07 13:26	1.0										+								
QC415654	MET04	11/15/07 13:28	1.0										+								
QC415800	MET09	11/15/07 23:13	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC415801	MET09	11/15/07 23:17	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC415802	MET09	11/15/07 23:19	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC415803	MET09	11/15/07 23:24	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC415804	MET09	11/15/07 23:26	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC415805	MET09	11/15/07 23:30	5.0		+	+	+	+	+	+	+	+		+	+		+	+	+	+	
QC415805	MET09	11/15/07 23:54	5.0	+												+					
QC415806	MET09	11/15/07 23:33	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	

: 00196

Curtis & Tompkins Laboratories Sample Preparation Summary 15-NOV-2007 19:52

Batch Number : 131816
Date Extracted: 15-NOV-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Clien	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
199248-002			Mactec, Inc.	Soil	1.09	g	50	45.871560	1					T26/ICP		
199254-001			MWH	Soil	1.04	g	50	48.076923	1					PB		
199254-002			MWH	Soil	1.03	g	50	48.543689	1					PB		
199267-004			Geomatrix Consultants	Soil	1.07	g	50	46.728972	1					CR		
199279-001			ConocoPhillips Company	Miscell.	1.04	g	50	48.076923	1					V		
199279-002			ConocoPhillips Company	Miscell.	1.04	g	50	48.076923	1					V		
199292-001			Ninyo & Moore	Soil	1.09	g	50	45.871560	1					MN, T26/ICP		
199292-002			Ninyo & Moore	Soil	1.03	g	50	48.543689	1					MN, T26/ICP		
199292-003			Ninyo & Moore	Soil	1.01	g	50	49.504950	1					MN, T26/ICP		
QC415800	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC415801	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC415802	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC415803	MS	of 199248-002		Soil	1.12	g	50	44.642857	1		.5	.5		ICAP		
QC415804	MSD	of 199248-002		Soil	1.04	g	50	48.076923	1		.5	.5		ICAP		
QC415805	SER	of 199248-002		Soil	1.09	g	50	45.871560	1					ICAP		
QC415806	PDS	of 199248-002		Soil	1.09	g	50	45.871560	1					ICAP		

Prep Chemist: Michael C Brock 11/15/07 Reviewed By: [signature] Date: 11/15/07

Relinquished By: Michael C Brock 11/15/07 Received By: [signature] Date: 11/15/07

Soil Digestion for ICP & ICP-MS 7:10 PM Curtis & Tompkins, Ltd.

LIMS Batch #: 131816
Date Digested: 11/15/07
Digested by: MCBIII

Digestion Method
☒ EPA 3050b
☐ _____

BK 2606
Page 56

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	∅	50	Y	
BS	↓	↓	↓	
BSD	↓	↓	↓	
MS-248-002 A	1.12	↓	↓	
MSD-248-002	1.04	↓	↓	
199248-002	1.09	↓	↓	
199254-001	1.04	↓	↓	
↓ -002	1.03	↓	↓	
199267-004	1.07	↓	↓	199267-004 IS A COMP OF 001-003
199279-001 A.B.C.	1.04	↓	↓	199279-001 IS A COMP OF 3 SAMS 26 GA.
↓ -002	1.04	↓	↓	↓ ↓ ↓
199292-001 A	1.09	↓	↓	
-002	1.03	↓	↓	
-003	1.01	↓	↓	

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	MCBIII 11/15/07
.5 mL of spike solution was added to all spikes	56918	
	56919	
1:1 HNO3	E27027 11/14/07 JT BAKER	
concentrated HNO3	E27027	
3mL 30% hydrogen peroxide	E26A05	
concentrated HCl	E33033	
☒ filtered thru' Whatman # 541	A11206689	
Relinquished to ICP group		

Michael C Crockett III 11/15/07
Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/15/07
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET04
alnum : 47460136001
nits : ug/L

Date : 15-NOV-2007 12:56
X Axis : R

Reviewer : ---
Type : SOIL

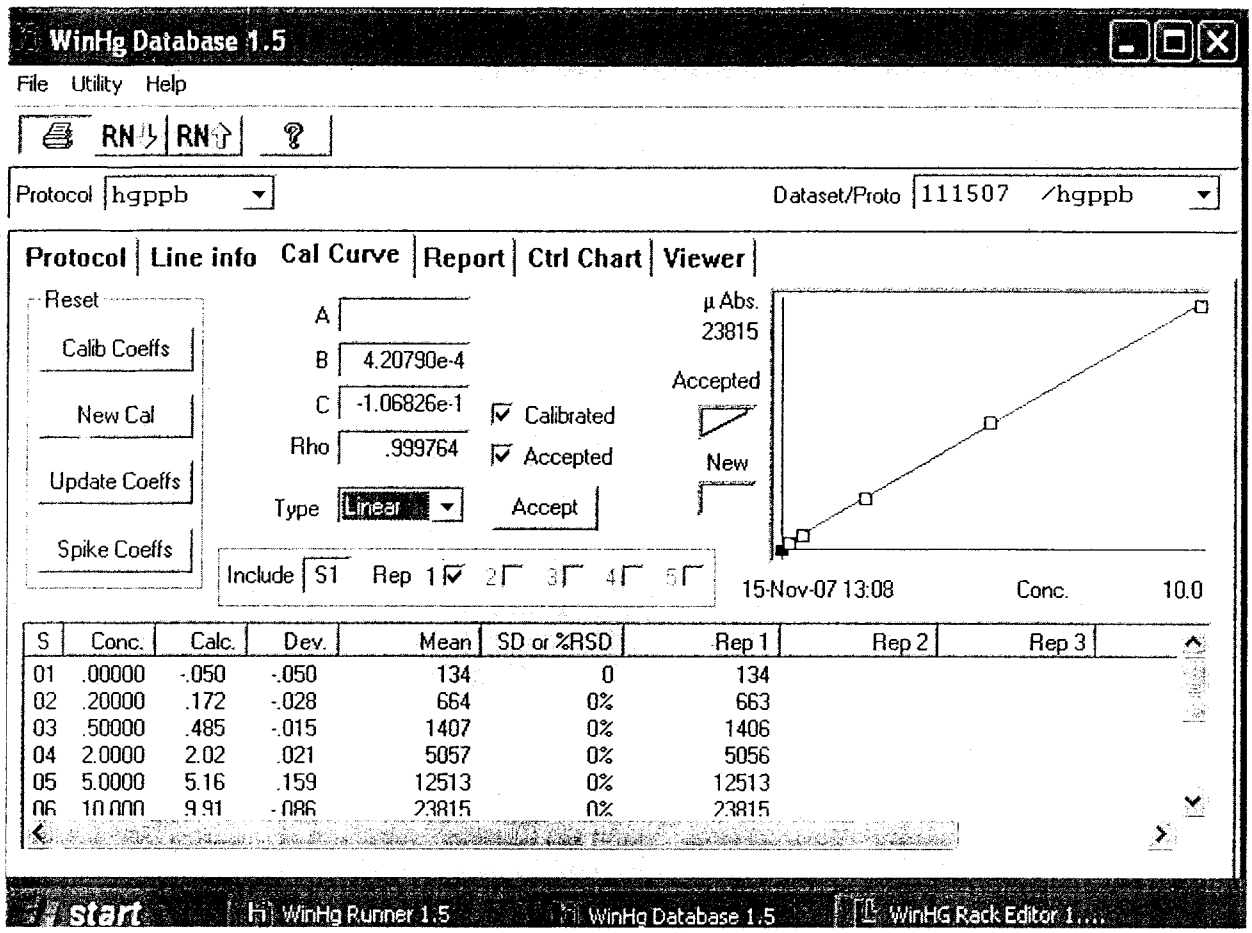
evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	131718	47460136002	STD02REP1	15-NOV-2007 12:59	S7685 (500X)
L2	131718	47460136003	STD03REP1	15-NOV-2007 13:01	S7685 (200X)
L3	131718	47460136004	STD04REP1	15-NOV-2007 13:04	S7685 (50X).
L4	131718	47460136005	STD05REP1	15-NOV-2007 13:06	S7685 (20X)
L5	131718	47460136006	STD06REP1	15-NOV-2007 13:08	S7685 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ercury	3315.0	2812.0	2528.0	2502.6	2381.5	LINR	-0.1068	4.21E-4		2707.8	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
ercury	0.200	-14	0.500	-3	2.000	1	5.000	3	10.00	-1

ment amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

47460136001


WinHg Database 1.5
File Utility Help
RN RN
Protocol hgppb
Dataset/Proto 111507 /hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 4.20790e-4
C -1.06826e-1
Rho .999764
Type Linear
Calibrated
Accepted
Accept
µ Abs.
23815
Accepted
New
Include S1 Rep 1 2 3 4 5
15-Nov-07 13:08
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.050 -.050 134 0 134
02 .20000 .172 -.028 664 0% 663
03 .50000 .485 -.015 1407 0% 1406
04 2.0000 2.02 .021 5057 0% 5056
05 5.0000 5.16 .159 12513 0% 12513
06 10.000 9.91 -.086 23815 0% 23815
start
WinHg Runner 1.5
WinHg Database 1.5
WinHG Rack Editor 1...

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		12:56:47 15 Nov 07		HG	
Hg	.000	ppb	134						
		Bkgd 1	14859767						=
									=
*** Standard: 2 Rep: 1				Seq: 2		12:59:10 15 Nov 07		HG	
Hg	.200	ppb	663						
		Bkgd 1	14852394						=
									=
*** Standard: 3 Rep: 1				Seq: 3		13:01:25 15 Nov 07		HG	
Hg	.500	ppb	1406						
		Bkgd 1	14844170						=
									=
*** Standard: 4 Rep: 1				Seq: 4		13:04:02 15 Nov 07		HG	
Hg	2.00	ppb	5056						
		Bkgd 1	14847027						=
									=
*** Standard: 5 Rep: 1				Seq: 5		13:06:17 15 Nov 07		HG	
Hg	5.00	ppb	12513						
		Bkgd 1	14852621						=
									=
*** Standard: 6 Rep: 1				Seq: 6		13:08:21 15 Nov 07		HG	
Hg	10.0	ppb	23815						
		Bkgd 1	14856573						=
									=
*** Check Standard: 2			Ck2s7687	Seq: 7		13:10:46 15 Nov 07		HG	
Line	Flag		Intensities						
Hg			12394						
		Bkgd 1	14861680						=
									=
*** Check Standard: 1			Ck1ICB	Seq: 8		13:13:03 15 Nov 07		HG	
Line	Flag		Intensities						
Hg			67						
		Bkgd 1	14865990						=
									=
*** Sample ID: qc415649				Seq: 9		13:15:07 15 Nov 07		HG	
			131781,1						
Hg	-.088	ppb	44						
		Bkgd 1	14870067						=
									=

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 47460136 Instrument: MET04 HydraAA HG Analyzer Begun: 15-NOV-2007
nalytical Method: EPA 7470A SOP Version: HG_water_rv10
nalyte: Mercury

	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
1	131718	ICALBLK	STD01REP1				15-NOV-2007 12:56	1.0	1.0									
2	131718	ICAL	STD02REP1				15-NOV-2007 12:59	1.0	1.0									
3	131718	ICAL	STD03REP1				15-NOV-2007 13:01	1.0	1.0									
4	131718	ICAL	STD04REP1				15-NOV-2007 13:04	1.0	1.0									
5	131718	ICAL	STD05REP1				15-NOV-2007 13:06	1.0	1.0									
6	131718	ICAL	STD06REP1				15-NOV-2007 13:08	1.0	1.0									
7	131718	ICV					15-NOV-2007 13:10	1.0	1.0	2	5.000	47460136001	5.110		ug/L	102		
8	131718	ICB					15-NOV-2007 13:13	1.0	1.0			47460136001	ND	0.20	ug/L			
9	131718	BLANK	QC415649		131781	Soil	15-NOV-2007 13:15	1.0	100.0			47460136001	ND	0.020	mg/Kg			u
0	131718	BS	QC415650		131781	Soil	15-NOV-2007 13:17	1.0	100.0		0.5000	47460136001	0.5140	0.020	mg/Kg	103		u
1	131718	BSD	QC415651		131781	Soil	15-NOV-2007 13:19	1.0	100.0		0.5000	47460136001	0.5120	0.020	mg/Kg	102	0	u
2	131718	MSS	199202-001		131781	Soil	15-NOV-2007 13:22	1.0	100.0			47460136001	0.037	0.020	mg/Kg			u
3	131718	SER	QC415652	199202-001	131781	Soil	15-NOV-2007 13:24	5.0	100.0			47460136001	ND	0.10	mg/Kg		--	u
4	131718	MS	QC415653	199202-001	131781	Soil	15-NOV-2007 13:26	1.0	102.0		0.5102	47460136001	0.5531	0.020	mg/Kg	101		u
5	131718	MSD	QC415654	199202-001	131781	Soil	15-NOV-2007 13:28	1.0	73.53		0.3676	47460136001	0.4257	0.020	mg/Kg	106	4	u
6	131718	SAMPLE	199202-002		131781	Soil	15-NOV-2007 13:30	1.0	92.59			47460136001	0.25	0.020	mg/Kg			u
7	131718	SAMPLE	199202-003		131781	Soil	15-NOV-2007 13:32	1.0	83.33			47460136001	0.058	0.020	mg/Kg			u
8	131718	SAMPLE	199202-004		131781	Soil	15-NOV-2007 13:35	1.0	81.97			47460136001	0.26	0.020	mg/Kg			u
9	131718	CCV					15-NOV-2007 13:37	1.0	1.0	3	2.500	47460136001	2.550		ug/L	102		
0	131718	CCB					15-NOV-2007 13:39	1.0	1.0			47460136001	ND	0.20	ug/L			
1	131718	SAMPLE	199202-005		131781	Soil	15-NOV-2007 13:41	1.0	86.21			47460136001	0.18	0.020	mg/Kg			u
2	131718	SAMPLE	199202-006		131781	Soil	15-NOV-2007 13:44	1.0	79.37			47460136001	0.064	0.020	mg/Kg			u
3	131718	SAMPLE	199202-007		131781	Soil	15-NOV-2007 13:46	1.0	90.91			47460136001	0.084	0.020	mg/Kg			u
4	131718	SAMPLE	199202-008		131781	Soil	15-NOV-2007 13:48	1.0	94.34			47460136001	3.5 >LR	0.020	mg/Kg			>LR cal
5	131718	SAMPLE	199202-009		131781	Soil	15-NOV-2007 13:50	1.0	86.21			47460136001	0.64	0.020	mg/Kg			u
6	131718	SAMPLE	199202-010		131781	Soil	15-NOV-2007 13:52	1.0	92.59			47460136001	0.050	0.020	mg/Kg			u
7	131718	SAMPLE	199202-011		131781	Soil	15-NOV-2007 13:54	1.0	92.59			47460136001	0.036	0.020	mg/Kg			u
8	131718	SAMPLE	199202-012		131781	Soil	15-NOV-2007 13:56	1.0	69.44			47460136001	0.044	0.020	mg/Kg			u
9	131718	SAMPLE	199202-013		131781	Soil	15-NOV-2007 13:58	1.0	83.33			47460136001	0.057	0.020	mg/Kg			u
0	131718	SAMPLE	199202-014		131781	Soil	15-NOV-2007 14:01	1.0	106.4			47460136001	0.024	0.021	mg/Kg			u
1	131718	CCV					15-NOV-2007 14:03	1.0	1.0	4	5.000	47460136001	5.120		ug/L	102		
2	131718	CCB					15-NOV-2007 14:05	1.0	1.0			47460136001	ND	0.20	ug/L			
3	131718	SAMPLE	199202-015		131781	Soil	15-NOV-2007 14:07	1.0	84.75			47460136001	0.040	0.020	mg/Kg			u
4	131718	SAMPLE	199202-016		131781	Soil	15-NOV-2007 14:10	1.0	76.92			47460136001	0.027	0.020	mg/Kg			u
5	131718	SAMPLE	199202-017		131781	Soil	15-NOV-2007 14:12	1.0	79.37			47460136001	0.072	0.020	mg/Kg			u
6	131718	SAMPLE	199202-018		131781	Soil	15-NOV-2007 14:14	1.0	84.75			47460136001	0.059	0.020	mg/Kg			u
7	131718	SAMPLE	199248-002		131781	Soil	15-NOV-2007 14:17	1.0	94.34			47460136001	11 >LR	0.020	mg/Kg			>LR cal
8	131718	SAMPLE	199256-025		131781	Soil	15-NOV-2007 14:19	1.0	98.04			47460136001	ND	0.020	mg/Kg			u
9	131718	SAMPLE	199202-008		131781	Soil	15-NOV-2007 14:29	5.0	94.34			47460136001	3.6	0.094	mg/Kg			u
0	131718	SAMPLE	199248-002		131781	Soil	15-NOV-2007 14:31	20.0	94.34			47460136001	7.0	0.38	mg/Kg			u
1	131718	CCV					15-NOV-2007 14:33	1.0	1.0	5	7.500	47460136001	7.520		ug/L	100		
2	131718	CCB					15-NOV-2007 14:35	1.0	1.0			47460136001	ND	0.20	ug/L			

ds used: 1=S7685 2=S7687 3=S7688 4=S7689 5=S7690
ags used: >LR=overrange b=noncompliant calc=check quantitation u=use

alyst: _____ Date: 11/15/07

of 1

Curtis & Tompkins Laboratories Sample Preparation Summary 15-NOV-2007 12:32

Batch Number : 131781
Date Extracted: 15-NOV-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7685
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
199202-001			PES Environmental, Inc.	Soil	.5	g	50	100.000000	1					T26/HG		MSS
199202-002			PES Environmental, Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
199202-003			PES Environmental, Inc.	Soil	.6	g	50	83.333333	1					T26/HG		
199202-004			PES Environmental, Inc.	Soil	.61	g	50	81.967213	1					T26/HG		
199202-005			PES Environmental, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		
199202-006			PES Environmental, Inc.	Soil	.63	g	50	79.365079	1					T26/HG		
199202-007			PES Environmental, Inc.	Soil	.55	g	50	90.909091	1					T26/HG		
199202-008			PES Environmental, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
199202-009			PES Environmental, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		
199202-010			PES Environmental, Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
199202-011			PES Environmental, Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
199202-012			PES Environmental, Inc.	Soil	.72	g	50	69.444444	1					T26/HG		
199202-013			PES Environmental, Inc.	Soil	.6	g	50	83.333333	1					T26/HG		
199202-014			PES Environmental, Inc.	Soil	.47	g	50	106.382979	1					T26/HG		
199202-015			PES Environmental, Inc.	Soil	.59	g	50	84.745763	1					T26/HG		
199202-016			PES Environmental, Inc.	Soil	.65	g	50	76.923077	1					T26/HG		
199202-017			PES Environmental, Inc.	Soil	.63	g	50	79.365079	1					T26/HG		
199202-018			PES Environmental, Inc.	Soil	.59	g	50	84.745763	1					T26/HG		
199248-002			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
199256-025			URS Corporation	Soil	.51	g	50	98.039216	1					T26/HG		
QC415649	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC415650	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC415651	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC415652	SER	of 199202-001		Soil	.5	g	50	100.000000	1					HG		
QC415653	MS	of 199202-001		Soil	.49	g	50	102.040816	1		2.5			HG		
QC415654	MSD	of 199202-001		Soil	.68	g	50	73.529412	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 11/15/07

Relinquished By: _____ Received By: _____ Date: 11/15/07

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 131781
Date Digested: 11/15/07
Digested by: JXM

Digestion Method
☒ EPA 7471A
☐ _____

BK 2605
Page 23

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
199202-001 A	0.50	~~0.50~~ 50.0 JXM 11/15/07	Y	MS
02	0.54	50.0		
03	0.60			
04	0.61			
05	0.58			
06	0.63			
07	0.55			
08	0.53			
09	0.58			
10	0.54			
11	0.54			
12	~~0.51~~ 0.72			
13	~~0.72~~ 0.60			
14	~~0.60~~ 0.47 JXM 11/16			
15	~~0.47~~ 0.59			
16	0.65			
17	0.63			
18	0.59			
199248-002	0.53			
199256-025	0.51			Comp 17-20 @ 5g each
MB QC415649	0.50			
BS 50				
BSD 51	↓			
MS 53	0.49			
MSD ↓ 54	0.68	↓	↓	

25 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	57685	JXM 11/15/07
ICAL Source WS#	↓	
ICV / CCV WS#	57687/88/89/90	
Digestion of Samples & Standards: Time ON / Temperature ON	12:15/95C	
Time OFF/ Temperature OFF	12:45/95C	
Aqua Regia Acids (HNO3+ HCl)	AR 111507	
5% $KMnO_4$	K110907	
NaCl.hydroxylamine hydrochloride	H_2 110907	
Stannous Chloride	$SnCl_2$ 111407	
☐ filtered thru' 0.45 um syringe filter	R7CN29662	

11/15/07
Prep Chemist / Date

Continued from page 1

Continued on page _____

Reviewed by: [signature] 11/15/07

Curtis & Tompkins.

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Field ID:	1065EX367[4.0]	Batch#:	131808
Lab ID:	199248-002	Sampled:	11/14/07
Matrix:	Soil	Received:	11/14/07
Units:	%	Analyzed:	11/15/07

Result	RL
9	1

RL= Reporting Limit

30.0

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	199248	Location:	Bldg 1065 Presidio--Ex Area 3
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	131808
MSS Lab ID:	199239-010	Sampled:	11/14/07
Lab ID:	QC415771	Received:	11/14/07
Matrix:	Soil	Analyzed:	11/15/07

MSS Result	Result	RL	RPD	Lim
7.652	7.556	1.000	1	15

RL= Reporting Limit
RPD= Relative Percent Difference

31.0

Percent Moisture Summary Report

Batch: 131808
Date: 11/15/07
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
199238-021	11.0973	18.4642	17.8394	92	8
199238-022	11.3745	17.5914	17.0070	91	9
199238-023	11.3711	17.5173	16.8559	89	11
199238-024	10.9708	18.3818	17.6277	90	10
199239-004	11.3866	18.8615	18.1103	90	10
199239-010	11.3239	17.2466	16.7934	92	8
199248-002	11.0507	19.0225	18.2941	91	9
199252-022	11.1036	20.0123	19.0305	89	11
199252-023	11.0791	16.9813	16.3075	89	11
199252-024	11.0717	19.1760	18.5249	92	8
199252-025	11.0299	17.5404	16.8399	89	11
199252-026	11.4694	19.9792	19.1913	91	9
199252-027	11.3212	17.3785	16.8570	91	9
QC415771	11.2980	17.1687	16.7251	92	8
of 199239-010			RPD:	0.1%	1.3%

00208

PROJECT MOISTURE

11.15.07

B# 131808

SAMPLE	SL	DISH	DISH WT	SAMPLE WT	FINAL WT	COMMENTS
BLK	–	CT14	11.3265	Ø	11.3265	
199238-021	A	BB4	10.0973	18.4142	17.8894	
022		CT3	11.3745	17.5914	17.0070	
023		K03	11.3711	17.5173	16.8559	
024		BBB	10.9708	18.3818	17.6277	
199239-004	A	E05	11.3866	18.8615	18.1103	10MPS(1-3)@10g ea ↓ (5-9) @ 8g each
010		C28	11.3239	17.2466	16.7934	
-SOUP 010		CT5	11.2480	17.1687	16.7251	
199248-02	A	B119	11.0507	19.0225	18.2941	
19952-022	A	USA	11.1036	20.0123	19.0305	
023		JP8	11.0791	16.9813	16.3075	
024		JNH	11.0717	19.1760	18.5249	
025		VII	11.0299	17.5404	16.8899	
026		B20	11.4694	19.9792	19.1913	
027		A03	11.3212	17.3785	16.8570	

TIME IN 6p
AT 11am
AVG TEMP 105°C

Continued on Page

11.15.07

11-16-07

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 131808
Date Started: 15-NOV-2007
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
199238-021		CH2M Hill	Soil	MOISTURE	16-NOV-2007
199238-022		CH2M Hill	Soil	MOISTURE	16-NOV-2007
199238-023		CH2M Hill	Soil	MOISTURE	16-NOV-2007
199238-024		CH2M Hill	Soil	MOISTURE	16-NOV-2007
199239-004		Shaw E&I	Soil	MOISTURE	16-NOV-2007
199239-010		Shaw E&I	Soil	MOISTURE	16-NOV-2007
199248-002		Mactec, Inc.	Soil	MOISTURE	16-NOV-2007
199252-022		Presidio Trust	Soil	MOISTURE	16-NOV-2007
199252-023		Presidio Trust	Soil	MOISTURE	16-NOV-2007
199252-024		Presidio Trust	Soil	MOISTURE	16-NOV-2007
199252-025		Presidio Trust	Soil	MOISTURE	16-NOV-2007
199252-026		Presidio Trust	Soil	MOISTURE	16-NOV-2007
199252-027		Presidio Trust	Soil	MOISTURE	16-NOV-2007
QC415771	SDUP of 199239-010		Soil	MOISTURE	

METTLER AE-2000

BK752

Continued from Page: 0

DATE	0-2000	1.0000	10.0000	50.0000	INITIAL	Weight SET
10-19-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-20-07	0.2000	1.0000	10.0000	50.0000	TO	35298
10-21-07	0.2000	1.0000	10.0000	50.0000	TO	35298
10-22-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-23-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-24-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-25-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-27-07	0.2000	1.0000	10.0000	50.0000	HO	35298
10-29-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-30-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-31-07	0.2000	1.0000	10.0000	50.0000	MO	35298
11-1-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-2-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-3-07	0.2000	1.0000	10.0000	49.9999	HO	35298
11-4-07	0.2000	1.0000	10.0000	50.0000	HO	35298
11-5-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-6-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-7-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-8-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-9-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-10-07	0.2000	1.0000	10.0000	50.0000	HO	35298
11-11-07	0.2000	1.0000	10.0000	50.0000	HO	35298
11-12-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-13-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-14-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-15-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-16-07	0.2000	1.0000	10.0000	50.0000	VV	35298

Continued on Page

Signed

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	HC	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	105°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	HC	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HC	105°C
10-7-07	HC	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HC	104°C
10-14-07	HC	104°C
10-15-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HC	105°C
10-21-07	HC	105°C
10-22-07	VV	103°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	HC	105°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	MC	103°C
11-1-07	VV	103°C
11-2-07	VV	104°C
11-3-07	HC	105°C
11-4-07	HC	105°C

Date	Initials	Temp (*C)
11-5-07	VV	103°C
11-6-07	VV	104°C
11-07-07	VV	103°C
11-8-07	VV	105°C
11-9-07	VV	105°C
11-10-07	HC	105°C
11-11-07	HC	105°C
11-12-07	VV	105°C
11-13-07	VV	104°C
11-14-07	VV	104°C
11-15-07	VV	104°C
11-16-07	VV	103°C

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 199433
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 Presidio Level : III

Sample ID	Lab ID
1065EX346[5.0]	199433-001
1065EX347[5.0]	199433-002
1065EX348[5.0]	199433-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/12/2007
Project Manager

Signature: _____ Date: 12/13/2007
Quality Assurance Director

NELAP # 01107CA

00001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**199433**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**11/21/07**
Samples Received:	**11/21/07**

This hardcopy data package contains sample and QC results for three soil samples, requested for the above referenced project on 11/21/07. The samples were received on ice and intact.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
High recovery was observed for pyrene in the MSD of 1065EX346[5.0] (lab # 199433-001); the high recovery was confirmed by re-analysis, and the LCS was within limits. High RPD was also observed for pyrene in the MS/MSD of 1065EX346[5.0] (lab # 199433-001); the high RPD was confirmed by re-analysis. 1065EX346[5.0] (lab # 199433-001) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3828

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

149433

SAMPLING INFORMATION
NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Buiding 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Bldg 1065-Excavation 2
JOB NO.: 408407515 02.4
SAMPLERS (SIGNATURE): Scott Bat
SAMPLERS INITIALS (PRINT): SRB
SAMPLING DATE: 11/21/07

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: TPH-d + TPH-g (8015M-Silica gel)	ANALYSES: PAHs (8270-SIM)	FOR LAB USE ONLY
945	X		SO	1065Ex346[5.0]	N71E42-5	primary + MS/MSD	2	X	X	
950	X		SO	1065Ex347[5.0]	N75E37-5		1	X	X	No Cooler Received 11/21/07 FN
1000	X		SO	1065Ex348[5.0]	N70E29-5		1	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
Scott Bat	11/21/07	UltraEx.	11/21 11:45am	UltraEx #980		11/21/07 12:45pm

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS
2 Day TAT
run MS/MSD on 1065Ex346[5.0]
on ice, intact
~~Client dsos~~
Ultra Ex signed incorrect time. Should be 12:45PM. SOS 11/21/07

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd

COOLER RECEIPT CHECKLIST

Login#: 199433 Date Received: 11-21-07 Number of Coolers: 1
Client: Mactec Project: Bldg 1065

A. Preliminary Examination Phase
Date Opened: 11-21-07 By (print): Faith Nichols (sign) Faith L

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: Wet Ice
9. If required, was sufficient ice used? Samples should be <=6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: No temp blank, All Cold
10. Were Encore sampling devices present in the cooler? ..... YES (NO)
    If YES, enter time they were transferred to the freezer _____

B. Login Phase
Date Logged In: 11-21-07 By (print): Faith Nichols (sign) Faith L

1. Did all bottles arrive unbroken? ..... (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
3. Did bottle labels agree with custody papers? ..... (YES) NO
4. Were appropriate containers used for the tests indicated? ..... (YES) NO
5. Were correct preservatives added to samples? ..... YES NO N/A
6. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
8. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

_____

_____

_____

_____

_____

00005

TPH-EXTRACTABLES DATA

SOIL

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/21/07
Units:	mg/Kg	Received:	11/21/07
Diln Fac:	1.000	Prepared:	11/27/07
Batch#:	132123	Analyzed:	11/28/07

Field ID:	1065EX346[5.0]	Basis:	dry
Type:	SAMPLE	Moisture:	13%
Lab ID:	199433-001	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	11 Y	1.1	0.23
Fuel Oil C24-C36	72	5.7	1.4

Surrogate	%REC	Limits
Hexacosane	88	65-135

Field ID:	1065EX347[5.0]	Basis:	dry
Type:	SAMPLE	Moisture:	11%
Lab ID:	199433-002	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	8.3 Y	1.1	0.23
Fuel Oil C24-C36	21	5.6	1.4

Surrogate	%REC	Limits
Hexacosane	88	65-135

Field ID:	1065EX348[5.0]	Basis:	dry
Type:	SAMPLE	Moisture:	9%
Lab ID:	199433-003	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	23 Y	1.1	0.22
Fuel Oil C24-C36	21	5.5	1.3

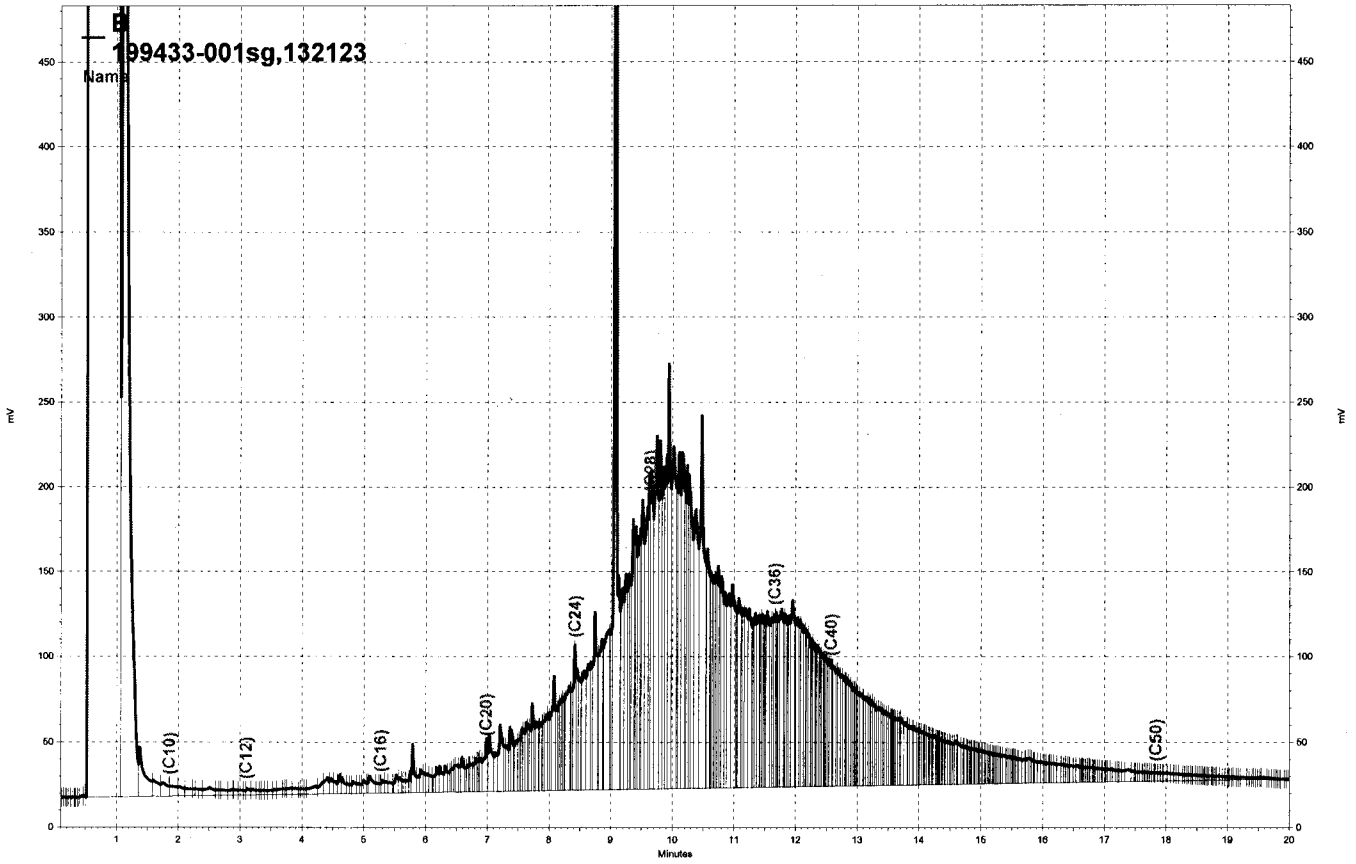
Surrogate	%REC	Limits
Hexacosane	102	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC417056	Cleanup Method:	EPA 3630C

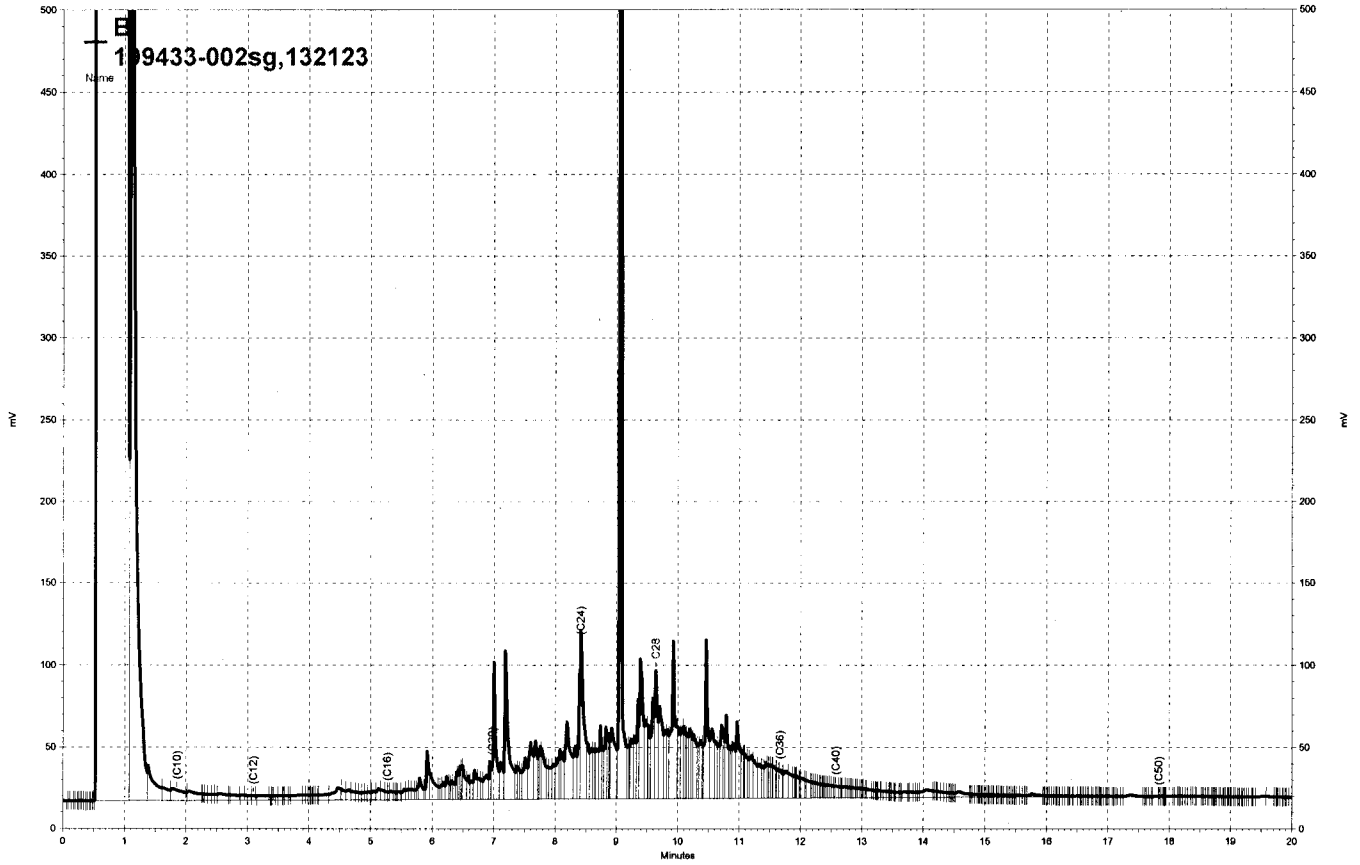
Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.27
Fuel Oil C24-C36	ND	5.0	2.1

Surrogate	%REC	Limits
Hexacosane	95	65-135

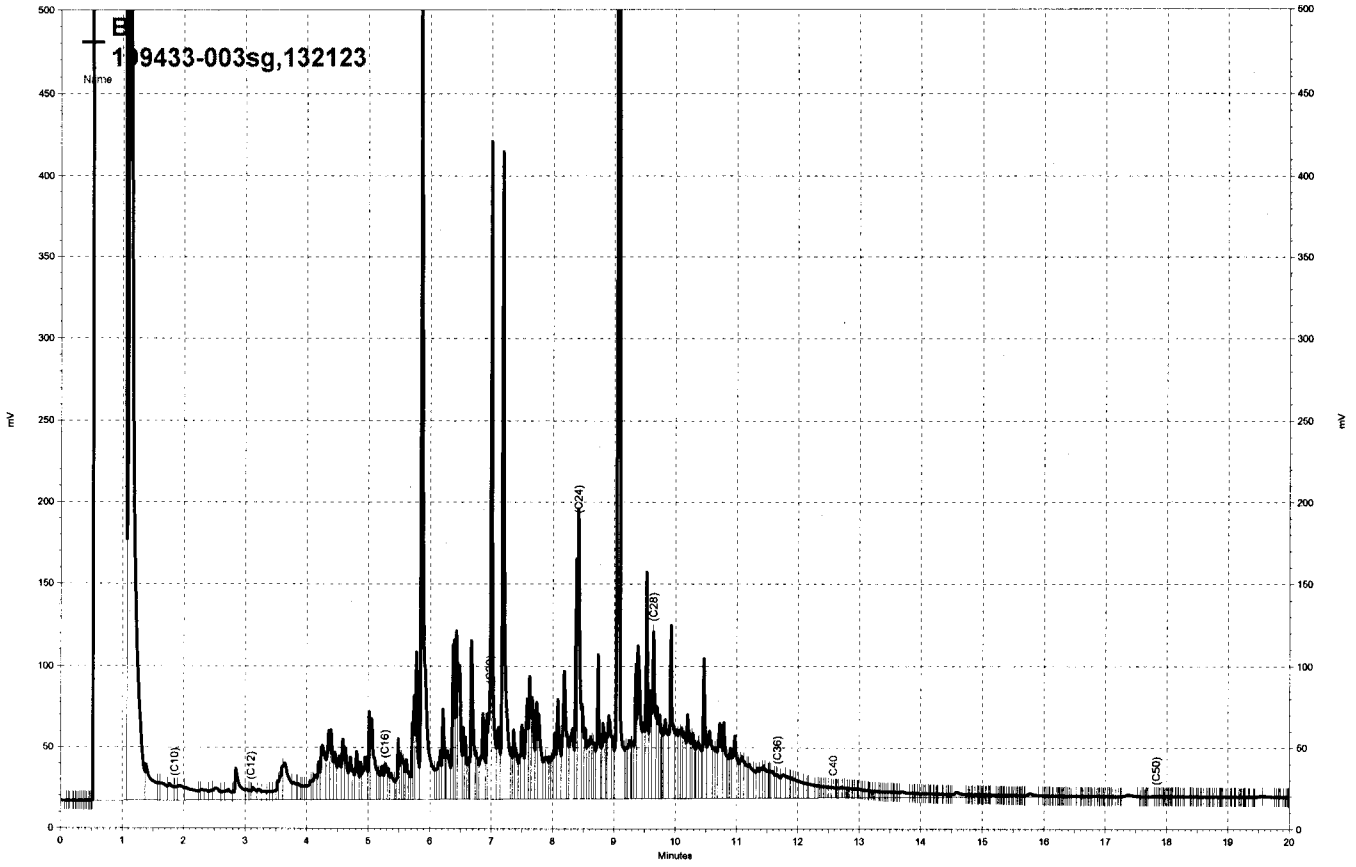
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



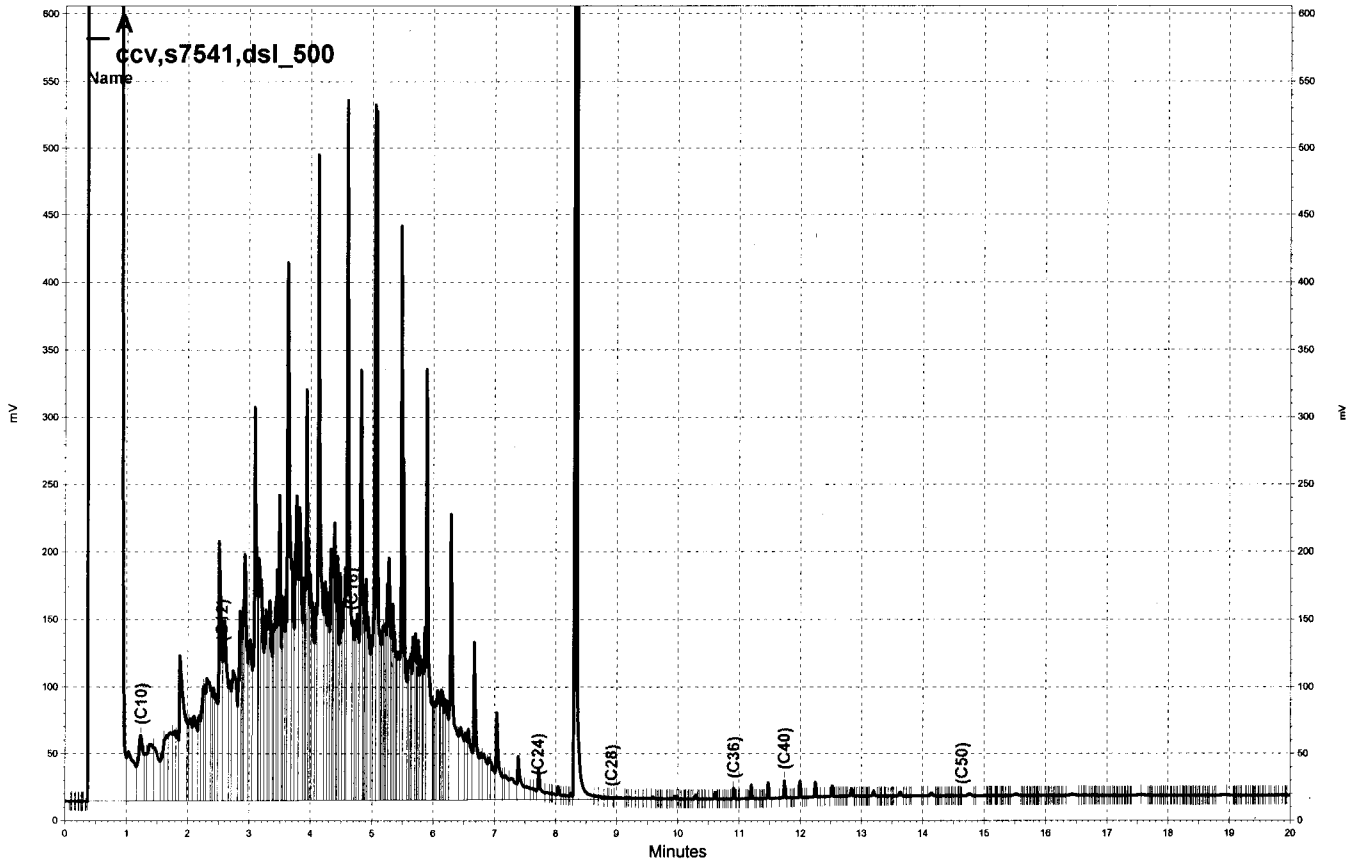
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\331b042, B



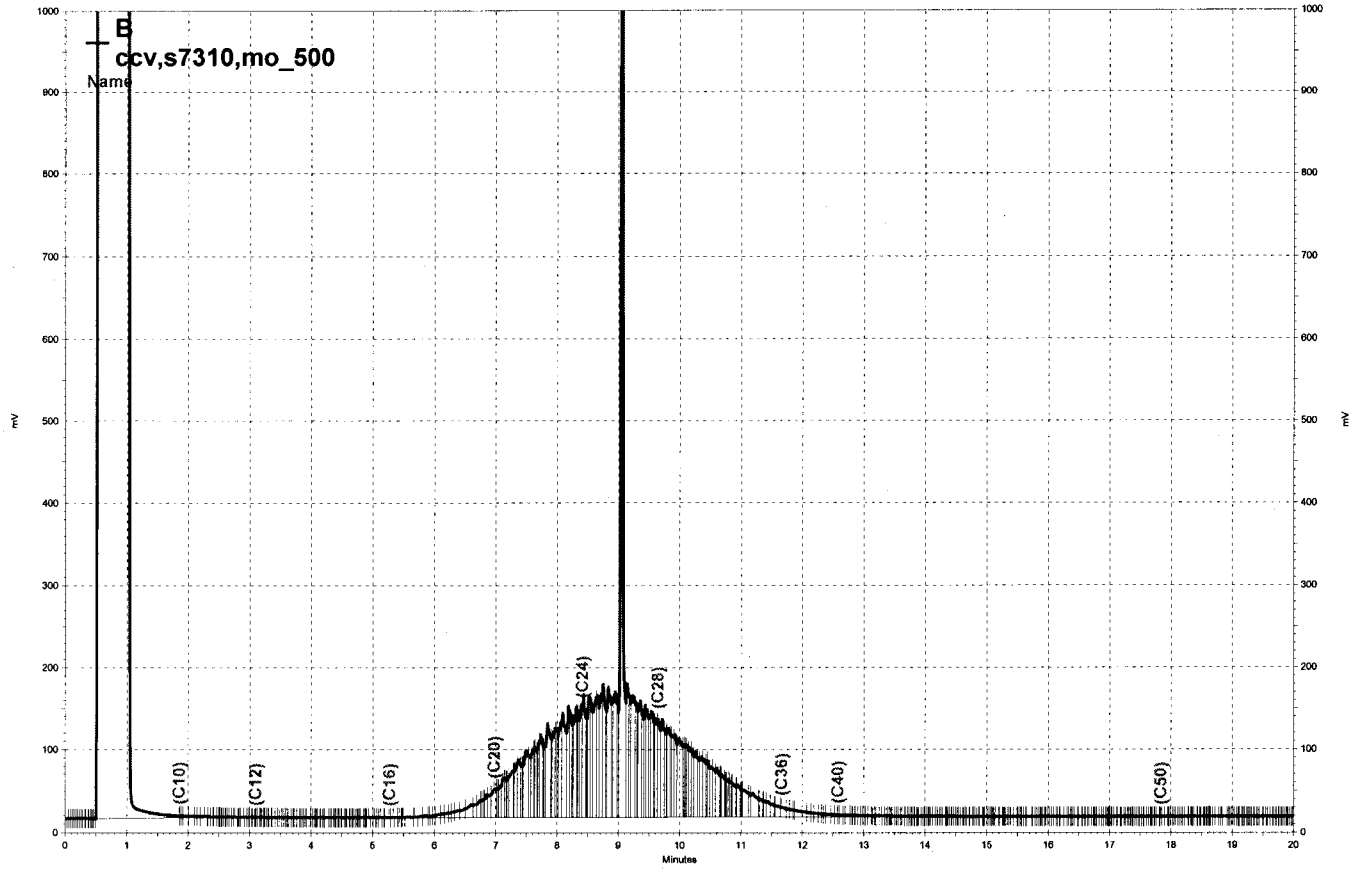
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\331b024, B



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\331b025, B



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\330a015, A



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\331b019, B

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC417057	Batch#:	132123
Matrix:	Soil	Prepared:	11/27/07
Units:	mg/Kg	Analyzed:	11/28/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.92	48.04	96	65-135

Surrogate	%REC	Limits
Hexacosane	103	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX346[5.0]	Batch#:	132123
MSS Lab ID:	199433-001	Sampled:	11/21/07
Matrix:	Soil	Received:	11/21/07
Units:	mg/Kg	Prepared:	11/27/07
Basis:	dry	Analyzed:	11/28/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC417058
Moisture: 13%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	10.92	57.20	63.34	92	65-135

Surrogate	%REC	Limits
Hexacosane	93	65-135

Type: MSD
Lab ID: QC417059
Moisture: 13%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	57.35	61.51	88	65-135	3	35

Surrogate	%REC	Limits
Hexacosane	86	65-135

RPD= Relative Percent Difference

14.0

0001H

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199433 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183005
Units : mg/L

Name : Motor Oil
Date : 10-OCT-2007 16:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_012	227408183012	MO_50	10-OCT-2007 16:20	S6848
L2	283_013	227408183013	MO_250	10-OCT-2007 16:48	S6849
L3	283_014	227408183014	MO_500	10-OCT-2007 17:16	S6850
L4	283_015	227408183015	MO_1000	10-OCT-2007 17:44	S6851
L5	283_040	227408183040	MO_5000	11-OCT-2007 10:35	S6846

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	39282	41294	41437	39011	31093	AVRG		2.60E-5		38423	11	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	B	50.00	2	250.0	7	500.0	8	1000	2	5000	-19

Analyst: ATL Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199433 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227408183002
Units : mg/L

Name : HEX
Date : 10-OCT-2007 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	283_019	227408183019	HEX_5	10-OCT-2007 19:38	S7036
L2	283_020	227408183020	HEX_10	10-OCT-2007 20:06	S7037
L3	283_021	227408183021	HEX_25	10-OCT-2007 20:34	S7038
L4	283_022	227408183022	HEX_50	10-OCT-2007 21:03	S7039
L5	283_023	227408183023	HEX_100	10-OCT-2007 21:31	S7040
L6	283_024	227408183024	HEX_200	10-OCT-2007 22:00	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	62663	62290	59838	61265	60611	52506	AVRG		1.67E-5		59862	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	5	10.00	4	25.00	0	50.00	2	100.0	1	200.0	-12

Analyst: CP Date: 10/11/07 Reviewer: LH Date: 10/11/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199433 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227477282001
Units : mg/L

Name : Diesel 6 pt
Date : 27-NOV-2007 13:04
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	331_007	227477282007	DSL_10	27-NOV-2007 13:04	S6612
L2	331_008	227477282008	DSL_100	27-NOV-2007 13:32	S6613
L3	331_009	227477282009	DSL_500	27-NOV-2007 14:00	S6614
L4	331_010	227477282010	DSL_1000	27-NOV-2007 14:28	S6615
L5	331_011	227477282011	DSL_5000	27-NOV-2007 14:57	S6611
L6	331_012	227477282012	DSL_7500	27-NOV-2007 15:25	S6616

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	36609	57696	58275	54975	52556	57471	AVRG		1.89E-5		52930	16	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	B	10.00	-31	100.0	9	500.0	10	1000	4	5000	-1	7500	9

Analyst: CP Date: 11/27/07 Reviewer: LH Date: 11/27/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199433 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 227477282001

Name : Diesel 6 pt
Cal Date : 27-NOV-2007

ICV 227477282014 (331_014 27-NOV-2007) stds: S6617 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	52930	60581	500.0	572.3	mg/L	14	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199433 GCSV Soil: EPA 8015B

Inst : GC26B
Calnum : 877367938002
Units : mg/L

Name : motor oil 26b
Date : 12-SEP-2007 23:06
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	255b019	877367938019	MO_50	12-SEP-2007 23:06	S6848
L2	255b020	877367938020	MO_250	12-SEP-2007 23:32	S6849
L3	255b021	877367938021	MO_500	12-SEP-2007 23:57	S6850
L4	255b022	877367938022	MO_1000	13-SEP-2007 00:22	S6851
L5	255b023	877367938023	MO_5000	13-SEP-2007 00:48	S6846

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	15606	16110	15021	15228	13485	AVRG		6.63E-5		15090	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	3	250.0	7	500.0	0	1000	1	5000	-11

Analyst: CP Date: 09/13/07 Reviewer: LH Date: 09/13/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

877367938002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199433 GCSV Soil: EPA 8015B

Inst : GC26B
Calnum : 877367938003
Units : mg/L

Name : hex 26b
Date : 13-SEP-2007 02:04
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	255b026	877367938026	HEX_5	13-SEP-2007 02:04	S7036
L2	255b027	877367938027	HEX_10	13-SEP-2007 02:29	S7037
L3	255b028	877367938028	HEX_25	13-SEP-2007 02:54	S7038
L4	255b029	877367938029	HEX_50	13-SEP-2007 03:20	S7039
L5	255b030	877367938030	HEX_100	13-SEP-2007 03:45	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	27913	26585	26497	26991	27842	AVRG		3.68E-5		27166	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	3	10.00	-2	25.00	-2	50.00	-1	100.0	2

Analyst: CP Date: 09/13/07 Reviewer: LH Date: 09/13/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

877367938003

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199433 GCSV Soil: EPA 8015B

Inst : GC26B
Calnum : 877378530001
Units : mg/L

Name : dsl 6pt.
Date : 19-SEP-2007 21:16
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	259b023	877378530023	DSL_10	19-SEP-2007 21:16	S6612
L2	259b024	877378530024	DSL_100	19-SEP-2007 21:41	S6613
L3	259b025	877378530025	DSL_500	19-SEP-2007 22:07	S6614
L4	259b026	877378530026	DSL_1000	19-SEP-2007 22:32	S6615
L5	259b027	877378530027	DSL_5000	19-SEP-2007 22:58	S6611
L6	259b028	877378530028	DSL_7500	19-SEP-2007 23:23	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	24523	31553	31259	31201	30946	28756	AVRG		3.37E-5		29706	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-17	100.0	6	500.0	5	1000	5	5000	4	7500	-3

Analyst: ZA Date: 09/24/07 Reviewer: LH Date: 09/25/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

877378530001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199433 GCSV Soil
EPA 8015B

Inst : GC26B
Calnum : 877378530001

Name : dsl 6pt.
Cal Date : 19-SEP-2007

ICV 877378530030 (259b030 20-SEP-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	29706	33332	500.0	561.0	mg/L	12	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
Seqnum : 227477282018 File : 331_018 Time : 27-NOV-2007 18:34
Standards: S7541

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227477282001	27-NOV-2007	52930	54526	500.0	515.1	mg/L	3	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	60975	50.00	50.93	mg/L	2	15	

Analyst: CP Date: 11/27/07 Reviewer: LH Date: 11/28/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227477282019 File : 331_019 Time : 27-NOV-2007 19:02
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	33538	500.0	436.4	mg/L	-13	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	60506	50.00	50.54	mg/L	1	15	

Analyst: CP Date: 11/27/07 Reviewer: LH Date: 11/28/07

227477282019

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
Seqnum : 227477282033.1 File : 331_033 Time : 28-NOV-2007 07:22
Standards: S7540

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227477282001	27-NOV-2007	52930	58999	250.0	278.7	mg/L	11	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	69119	50.00	57.73	mg/L	15	15	

Analyst: JDG Date: 11/29/07 Reviewer: MMP Date: 11/29/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227477282034.1 File : 331_034 Time : 28-NOV-2007 07:51
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	41892	500.0	545.1	mg/L	9	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	72022	50.00	60.16	mg/L	**20**	15	c+

JDG 11/28/07 : Hexacosane taken from previous DSL CCV.

Analyst: JDG Date: 11/29/07 Reviewer: MMP Date: 11/29/07

+=high bias c=CCV

227477282034.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 227477282047.1 File : 331_047 Time : 28-NOV-2007 14:03
Standards: S7542

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227477282001	27-NOV-2007	52930	57834	1000	1093	mg/L	9	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	64745	50.00	54.08	mg/L	8	15	

Analyst: JDG Date: 11/28/07 Reviewer: LH Date: 11/28/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227477282049.1 File : 331_049 Time : 28-NOV-2007 15:10
Standards: S7310

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227408183005	10-OCT-2007	38423	32638	500.0	424.7	mg/L	-15	15	
Hexacosane	B	227408183002	10-OCT-2007	59862	61552	50.00	51.41	mg/L	3	15	

Analyst: JDG Date: 11/28/07 Reviewer: LH Date: 11/28/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC26B Run Name : DSL_1000 IDF : 1.0
Seqnum : 877477089021.1 File : 331b021 Time : 28-NOV-2007 09:19
Standards: S7542

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	877378530001	19-SEP-2007	29706	33388	1000	1124	mg/L	12	15	
Hexacosane	877367938003	13-SEP-2007	27166	30262	50.00	55.70	mg/L	11	15	

Analyst: JDG Date: 11/28/07 Reviewer: LH Date: 11/28/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC26B Run Name : MO_500 IDF : 1.0
Seqnum : 877477089022 File : 331b022 Time : 28-NOV-2007 09:47
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	877367938002	12-SEP-2007	15090	14704	500.0	487.2	mg/L	-3	15	
Hexacosane	877367938003	13-SEP-2007	27166	27924	50.00	51.40	mg/L	3	15	

Analyst: JDG Date: 11/28/07 Reviewer: LH Date: 11/28/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC26B Run Name : DSL_500 IDF : 1.0
Seqnum : 877477089033 File : 331b033 Time : 28-NOV-2007 16:03
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	877378530001	19-SEP-2007	29706	32305	500.0	543.7	mg/L	9	15	
Hexacosane	877367938003	13-SEP-2007	27166	28541	50.00	52.53	mg/L	5	15	

Analyst: ZA Date: 11/28/07 Reviewer: MMP Date: 11/29/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 GCSV Soil
EPA 8015B

Inst : GC26B Run Name : MO_500 IDF : 1.0
Seqnum : 877477089034 File : 331b034 Time : 28-NOV-2007 16:56
Standards: S7310

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	877367938002	12-SEP-2007	15090	14832	500.0	491.4	mg/L	-2	15	
Hexacosane	877367938003	13-SEP-2007	27166	27893	50.00	51.34	mg/L	3	15	

Analyst: ZA Date: 11/28/07 Reviewer: MMP Date: 11/29/07

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227408183

Instrument : GC14B
Method : EPA 8015B

Begun : 10/10/07 11:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	283_001	IB	CALIB			10/10/07 11:03	1.0	
002	283_002	XCMARKER	C8-C50			10/10/07 11:32	1.0	1
003	283_003	ICAL	DSL_10			10/10/07 12:00	1.0	2
004	283_004	ICAL	DSL_100			10/10/07 12:29	1.0	3
005	283_005	ICAL	DSL_500			10/10/07 12:58	1.0	4
006	283_006	ICAL	DSL_1000			10/10/07 13:27	1.0	5
007	283_007	ICAL	DSL_5000			10/10/07 13:56	1.0	6
008	283_008	ICAL	DSL_7500			10/10/07 14:25	1.0	7
009	283_009	IB	CALIB			10/10/07 14:54	1.0	
010	283_010	ICV	DSL_500			10/10/07 15:23	1.0	8
011	283_011	IB	CALIB			10/10/07 15:51	1.0	
012	283_012	ICAL	MO_50			10/10/07 16:20	1.0	9
013	283_013	ICAL	MO_250			10/10/07 16:48	1.0	10
014	283_014	ICAL	MO_500			10/10/07 17:16	1.0	11
015	283_015	ICAL	MO_1000			10/10/07 17:44	1.0	12
016	283_016	XICAL	MO_5000			10/10/07 18:13	1.0	13
017	283_017	XICAL	MO_7500			10/10/07 18:41	1.0	14
018	283_018	IB	CALIB			10/10/07 19:09	1.0	
019	283_019	ICAL	HEX_5			10/10/07 19:38	1.0	15
020	283_020	ICAL	HEX_10			10/10/07 20:06	1.0	16
021	283_021	ICAL	HEX_25			10/10/07 20:34	1.0	17
022	283_022	ICAL	HEX_50			10/10/07 21:03	1.0	18
023	283_023	ICAL	HEX_100			10/10/07 21:31	1.0	19
024	283_024	ICAL	HEX_200			10/10/07 22:00	1.0	20
025	283_025	IB	CALIB			10/10/07 22:28	1.0	
026	283_026	ICAL	OTP_5			10/10/07 22:57	1.0	21
027	283_027	ICAL	OTP_10			10/10/07 23:25	1.0	22
028	283_028	ICAL	OTP_25			10/10/07 23:54	1.0	23
029	283_029	ICAL	OTP_50			10/11/07 00:22	1.0	24
030	283_030	ICAL	OTP_100			10/11/07 00:51	1.0	25
031	283_031	IB	CALIB			10/11/07 01:19	1.0	
032	283_032	ICAL	JETA_10			10/11/07 01:48	1.0	26
033	283_033	ICAL	JETA_100			10/11/07 02:16	1.0	27
034	283_034	ICAL	JETA_500			10/11/07 02:45	1.0	28
035	283_035	ICAL	JETA_1000			10/11/07 03:13	1.0	29
036	283_036	ICAL	JETA_2000			10/11/07 03:41	1.0	30
037	283_037	IB	CALIB			10/11/07 04:10	1.0	
038	283_038	X	IB			10/11/07 09:38	1.0	
039	283_039	IB	CALIB			10/11/07 10:06	1.0	
040	283_040	ICAL	MO_5000			10/11/07 10:35	1.0	13
041	283_041	XICAL	MO_7500			10/11/07 11:03	1.0	14
042	283_042	IB	CALIB			10/11/07 11:32	1.0	

Analyst: JDG Date: 10/11/07 Reviewer: LH Date: 10/11/07

Standards used: 1=S6952 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847 15=S7036 16=S7037 17=S7038 18=S7039 19=S7040 20=S7041 21=S6397 22=S6398 23=S6399 24=S6400 25=S6401 26=S6528 27=S6529 28=S6530 29=S6531 30=S6532

00033

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227477282

Instrument : GC14B
Method : EPA 8015B

Begun : 11/27/07 10:42
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
002	331_002	X	IB				11/27/07 10:42	1.0		
003	331_003	X	CMARKER				11/27/07 11:10	1.0	1	
004	331_004	CCV	DSL_500				11/27/07 11:38	1.0	2	
005	331_005	CCV	MO_500				11/27/07 12:06	1.0	3	
006	331_006	IB	CALIB				11/27/07 12:35	1.0		
007	331_007	ICAL	DSL_10				11/27/07 13:04	1.0	4	
008	331_008	ICAL	DSL_100				11/27/07 13:32	1.0	5	
009	331_009	ICAL	DSL_500				11/27/07 14:00	1.0	6	
010	331_010	ICAL	DSL_1000				11/27/07 14:28	1.0	7	
011	331_011	ICAL	DSL_5000				11/27/07 14:57	1.0	8	
012	331_012	ICAL	DSL_7500				11/27/07 15:25	1.0	9	
013	331_013	IB	CALIB				11/27/07 15:53	1.0		
014	331_014	ICV	DSL_500				11/27/07 16:21	1.0	10	
015	331_015	X	ICV				11/27/07 16:49	1.0	10	
016	331_016	IB	CALIB				11/27/07 17:18	1.0		
017	331_017	X	CMARKER				11/27/07 18:06	1.0	1	
018	331_018	CCV	DSL_500				11/27/07 18:34	1.0	2	
019	331_019	CCV	MO_500				11/27/07 19:02	1.0	3	
020	331_020	X	IB				11/28/07 01:15	1.0		
021	331_021	LCS	QC416979	S	Soil	132105	11/28/07 01:43	1.0		
022	331_022	BLANK	QC416978	S	Soil	132105	11/28/07 02:11	1.0		
023	331_023	SAMPLE	199444-014	S	Soil	132099	11/28/07 02:39	1.0		
024	331_024	SAMPLE	199433-002	S	Soil	132123	11/28/07 03:08	1.0		
025	331_025	SAMPLE	199433-003	S	Soil	132123	11/28/07 03:36	1.0		
026	331_026	X	IB				11/28/07 04:04	1.0		
027	331_027	LCS	QC416964	S	Soil	132099	11/28/07 04:32	1.0		
028	331_028	BLANK	QC416963	S	Soil	132099	11/28/07 05:01	1.0		
029	331_029	SAMPLE	199400-001	S	Soil	132099	11/28/07 05:29	1.0		
030	331_030	SAMPLE	199444-004	S	Soil	132099	11/28/07 05:57	1.0		
031	331_031	X	IB				11/28/07 06:26	1.0		
032	331_032	SAMPLE	199366-006	S	Soil	132105	11/28/07 06:54	1.0		
033	331_033	CCV	DSL_250				11/28/07 07:22	1.0	11	
034	331_034	CCV	MO_500				11/28/07 07:51	1.0	3	
035	331_035	BLANK	QC417056		Soil	132123	11/28/07 08:23	1.0		
036	331_036	SAMPLE	199153-024		Soil	132105	11/28/07 08:52	1.0		14:BUNKC:12-40=120000
037	331_037	SAMPLE	199444-003	S	Soil	132099	11/28/07 09:20	1.0		
038	331_038	SAMPLE	199444-007	S	Soil	132099	11/28/07 09:48	1.0		
039	331_039	SAMPLE	199444-005	S	Soil	132099	11/28/07 10:17	1.0		
040	331_040	MS	QC417058	S	Soil	132123	11/28/07 10:45	1.0		
041	331_041	MSD	QC417059	S	Soil	132123	11/28/07 11:13	1.0		
042	331_042	MSS	199433-001	S	Soil	132123	11/28/07 11:42	1.0		
043	331_043	SAMPLE	199441-012	S	Soil	132123	11/28/07 12:10	1.0		
044	331_044	X	IB				11/28/07 12:38	1.0		
045	331_045	SAMPLE	199444-001		Soil	132099	11/28/07 13:06	1.0		
046	331_046	X	CMARKER				11/28/07 13:35	1.0	1	
047	331_047	CCV	DSL_1000				11/28/07 14:03	1.0	12	
048	331_048	X	CCV				11/28/07 14:31	1.0	3	
049	331_049	CCV	MO_500				11/28/07 15:10	1.0	3	
050	331_050	SAMPLE	199437-002		Soil	132099	11/28/07 16:09	1.0		
051	331_051	SAMPLE	199437-001		Soil	132099	11/28/07 16:37	1.0		
052	331_052	X	IB				11/28/07 22:01	1.0		
053	331_053	LCS	QC417181		Soil	132150	11/28/07 22:30	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227477282

Instrument : GC14B
Method : EPA 8015B

Begun : 11/27/07 10:42
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
054	331_054	BLANK	QC417180		Soil	132150	11/28/07 22:58	1.0		
055	331_055	MSS	199153-024		Soil	132150	11/28/07 23:27	1.0		14:BUNKC:12-40=100000
056	331_056	SAMPLE	199366-007	S	Soil	132150	11/29/07 00:10	1.0		
057	331_057	SAMPLE	199444-001	S	Soil	132150	11/29/07 00:38	1.0		
058	331_058	SAMPLE	199437-004		Soil	132099	11/29/07 01:06	1.0		
059	331_059	X	IB				11/29/07 01:35	1.0		
060	331_060	BLANK	QC417180	S	Soil	132150	11/29/07 02:03	1.0		
061	331_061	SAMPLE	199437-003		Soil	132099	11/29/07 02:31	1.0		
062	331_062	X	CMARKER				11/29/07 03:00	1.0	1	
063	331_063	CCV	DSL_500				11/29/07 03:28	1.0	2	
064	331_064	CCV	MO_500				11/29/07 03:57	1.0	3	
065	331_065	X	CCV				11/29/07 04:25	1.0	2	
066	331_066	X	CCV				11/29/07 04:53	1.0	3	

Standards used: 1=S7539 2=S7541 3=S7310 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617 11=S7540 12=S7542

0035

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 877367938

Instrument : GC26B
Method : EPA 8015B

Begun : 09/12/07 12:18
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
004	255b004	CMARKER	C10-C50			09/12/07 12:18	1.0	1
005	255b005	CCV	DSL_500			09/12/07 12:43	1.0	2
006	255b006	CCV	MO_500			09/12/07 13:08	1.0	3
008	255b008	IB	CALIB			09/12/07 18:28	1.0	
009	255b009	X	ICAL			09/12/07 18:53	1.0	4
010	255b010	ICAL	DSL_100			09/12/07 19:18	1.0	5
011	255b011	ICAL	DSL_500			09/12/07 19:43	1.0	6
012	255b012	ICAL	DSL_1000			09/12/07 20:09	1.0	7
013	255b013	ICAL	DSL_5000			09/12/07 20:34	1.0	8
014	255b014	ICAL	DSL_7500			09/12/07 20:59	1.0	9
015	255b015	IB	CALIB			09/12/07 21:25	1.0	
016	255b016	ICV	DSL_500			09/12/07 21:50	1.0	10
017	255b017	X	ICV			09/12/07 22:15	1.0	10
018	255b018	IB	CALIB			09/12/07 22:40	1.0	
019	255b019	ICAL	MO_50			09/12/07 23:06	1.0	11
020	255b020	ICAL	MO_250			09/12/07 23:32	1.0	12
021	255b021	ICAL	MO_500			09/12/07 23:57	1.0	13
022	255b022	ICAL	MO_1000			09/13/07 00:22	1.0	14
023	255b023	ICAL	MO_5000			09/13/07 00:48	1.0	15
024	255b024	X	MO_7500			09/13/07 01:13	1.0	16
025	255b025	IB	CALIB			09/13/07 01:38	1.0	
026	255b026	ICAL	HEX_5			09/13/07 02:04	1.0	17
027	255b027	ICAL	HEX_10			09/13/07 02:29	1.0	18
028	255b028	ICAL	HEX_25			09/13/07 02:54	1.0	19
029	255b029	ICAL	HEX_50			09/13/07 03:20	1.0	20
030	255b030	ICAL	HEX_100			09/13/07 03:45	1.0	21
031	255b031	X	HEX_200			09/13/07 04:10	1.0	22
033	255b033	ICAL	DSL_10			09/13/07 12:16	1.0	4

CP 09/13/07 : dsl 10 point re-run at end of sequence, first run mis-inject. Mo level 7500 and hex level 200 are not in use.

Analyst: CP Date: 09/13/07 Reviewer: LH Date: 09/13/07

Standards used: 1=S6952 2=S6808 3=S6790 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617 11=S6848 12=S6849 13=S6850 14=S6851 15=S6846 16=S6847 17=S7036 18=S7037 19=S7038 20=S7039 21=S7040 22=S57041

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 877378530

Instrument : GC26B
Method : EPA 8015B
Begun : 09/19/07 20:25
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
021	259b021	X	CMARKER			09/19/07 20:25	1.0	1	
022	259b022	IB	CALIB			09/19/07 20:50	1.0		
023	259b023	ICAL	DSL_10			09/19/07 21:16	1.0	2	
024	259b024	ICAL	DSL_100			09/19/07 21:41	1.0	3	
025	259b025	ICAL	DSL_500			09/19/07 22:07	1.0	4	
026	259b026	ICAL	DSL_1000			09/19/07 22:32	1.0	5	
027	259b027	ICAL	DSL_5000			09/19/07 22:58	1.0	6	
028	259b028	ICAL	DSL_7500			09/19/07 23:23	1.0	7	
029	259b029	IB	CALIB			09/19/07 23:48	1.0		
030	259b030	ICV	DSL_500			09/20/07 00:14	1.0	8	

ZA 09/24/07 : sequence in EZChrom is 262, but sequence in LIMS is 259 (file name not changed when sequence started). Method name reflects EZChrom sequence name.

Analyst: ZA Date: 09/24/07 Reviewer: LH Date: 10/19/07

Standards used: 1=S4049 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 877477089

Instrument : GC26B
Method : EPA 8015B

Begun : 11/27/07 07:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	331b001	X	PRIMER				11/27/07 07:29	1.0		
002	331b002	X	IB				11/27/07 07:57	1.0		
003	331b003	X	IB				11/27/07 08:25	1.0		
004	331b004	X	CMARKER				11/27/07 08:53	1.0	1	
005	331b005	CCV	MO_500				11/27/07 09:21	1.0	2	
006	331b006	CCV	DSL_250				11/27/07 09:59	1.0	3	
007	331b007	SAMPLE	199390-012	S	Soil	132033	11/27/07 10:27	1.0		
008	331b008	SAMPLE	199390-014	S	Soil	132033	11/27/07 10:56	1.0		
009	331b009	CCV	DSL_500				11/27/07 11:24	1.0	4	
010	331b010	CCV	MO_500				11/27/07 11:52	1.0	2	
011	331b011	X	199366-006	S	Soil	131966	11/27/07 13:00	1.0		
012	331b012	X	IB				11/27/07 13:37	1.0		
013	331b013	X	IB				11/27/07 14:40	1.0		
014	331b014	SAMPLE	199366-006	S	Soil	131966	11/27/07 15:08	1.0		
015	331b015	SAMPLE	199153-021		WET DI Leachate	132047	11/27/07 16:47	1.0		
016	331b016	SAMPLE	199153-020		WET DI Leachate	132047	11/27/07 17:15	1.0		
017	331b017	X	IB				11/28/07 00:41	1.0		
018	331b018	X	IB				11/28/07 01:09	1.0		
019	331b019	SAMPLE	199437-009		Soil	132099	11/28/07 07:01	1.0		
020	331b020	X	CMARKER				11/28/07 08:00	1.0	1	
021	331b021	CCV	DSL_1000				11/28/07 09:19	1.0	5	
022	331b022	CCV	MO_500				11/28/07 09:47	1.0	2	
023	331b023	BLANK	QC417056	S	Soil	132123	11/28/07 10:23	1.0		
024	331b024	X	IB	S		132123	11/28/07 10:51	1.0		
025	331b025	LCS	QC417057	S	Soil	132123	11/28/07 11:19	1.0		
026	331b026	SAMPLE	199441-008	S	Soil	132123	11/28/07 11:47	1.0		
027	331b027	SAMPLE	199441-011	S	Soil	132123	11/28/07 12:15	1.0		
028	331b028	SAMPLE	199444-011		Soil	132099	11/28/07 12:44	1.0		
029	331b029	MSS	199444-006	S	Soil	132099	11/28/07 13:18	1.0		
030	331b030	BLANK	QC417087		Water	132130	11/28/07 14:20	1.0		
031	331b031	SAMPLE	199444-007		Soil	132099	11/28/07 14:48	1.0		
032	331b032	SAMPLE	199444-012		Soil	132099	11/28/07 15:16	1.0		
033	331b033	CCV	DSL_500				11/28/07 16:03	1.0	4	
034	331b034	CCV	MO_500				11/28/07 16:56	1.0	2	
035	331b035	X	IB				11/28/07 22:41	1.0		
036	331b036	X	IB				11/28/07 23:09	1.0		
037	331b037	LCS	QC417088	S	Water	132130	11/28/07 23:37	1.0		
038	331b038	BLANK	QC417087	S	Water	132130	11/29/07 00:05	1.0		
039	331b039	SAMPLE	199424-001		Soil	132150	11/29/07 00:43	1.0		
040	331b040	SAMPLE	199424-002		Soil	132150	11/29/07 01:11	1.0		
041	331b041	SAMPLE	199488-002		Water	132130	11/29/07 01:39	20.0		9:DSL:10-28=24000
042	331b042	X	IB				11/29/07 02:07	1.0		
043	331b043	SAMPLE	199424-011		Soil	132150	11/29/07 02:35	1.0		
044	331b044	SAMPLE	199424-005		Soil	132150	11/29/07 03:04	1.0		
045	331b045	SAMPLE	199424-006		Soil	132150	11/29/07 06:53	20.0		
046	331b046	SAMPLE	199424-004		Soil	132150	11/29/07 07:21	1.0		8:DSL:12-32=21000
047	331b047	X	IB				11/29/07 07:49	1.0		
048	331b048	SAMPLE	199424-003		Soil	132150	11/29/07 08:17	1.0		
049	331b049	X	CMARKER				11/29/07 08:46	1.0	6	
050	331b050	CCV	DSL_250				11/29/07 09:40	1.0	3	
051	331b051	CCV	MO_500				11/29/07 10:08	1.0	2	
052	331b052	LCS	QC417181	S	Soil	132150	11/29/07 10:36	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 877477089

Instrument : GC26B
Method : EPA 8015B

Begun : 11/27/07 07:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	331b053	SAMPLE	199424-007		Soil	132150	11/29/07 11:04	50.0		
054	331b054	SAMPLE	199424-008		Soil	132150	11/29/07 11:33	50.0		
055	331b055	SAMPLE	199424-009		Soil	132150	11/29/07 12:01	100.0		
056	331b056	SAMPLE	199424-010		Soil	132150	11/29/07 12:29	100.0		
057	331b057	X	IB				11/29/07 13:01	1.0		
058	331b058	SAMPLE	199424-004		Soil	132150	11/29/07 13:29	20.0		
060	331b060	BLANK	QC417180		Soil	132150	11/29/07 14:25	1.0		
061	331b061	CCV	DSL_500				11/29/07 14:58	1.0	4	
062	331b062	X					11/29/07 15:26	1.0	2	
063	331b063	CCV	MO_500				11/29/07 16:04	1.0	2	

Standards used: 1=S7307 2=S7310 3=S7540 4=S7541 5=S7542 6=S7309

REPORTING SUMMARY FOR 199433 GCSV Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	FUEL	HXCS	
199433-001	GC14B	11/28/07 11:42	1.0	+	+	+	
199433-002	GC14B	11/26/07 22:05	1.0				
199433-002	GC14B	11/28/07 03:08	1.0	+	+	+	
199433-003	GC14B	11/26/07 23:30	1.0				
199433-003	GC14B	11/28/07 03:36	1.0	+	+	+	
QC416747	GC14B	11/26/07 20:11	1.0				
QC416747	GC17A	11/27/07 08:16	1.0				
QC416747	GC17A	11/27/07 08:43	1.0				
QC416748	GC14B	11/26/07 19:43	1.0				
QC416748	GC17A	11/27/07 10:06	1.0				
QC416749	GC17A	11/26/07 20:01	1.0				
QC416750	GC17A	11/26/07 20:29	1.0				
QC417056	GC15B	11/28/07 01:59	1.0				
QC417056	GC14B	11/28/07 08:23	1.0				
QC417056	GC26B	11/28/07 10:23	1.0	+	+	+	
QC417057	GC15B	11/28/07 01:32	1.0				
QC417057	GC26B	11/28/07 11:19	1.0	+		+	
QC417058	GC15B	11/28/07 02:55	1.0				
QC417058	GC14B	11/28/07 10:45	1.0	+		+	
QC417059	GC15B	11/28/07 03:22	1.0				
QC417059	GC14B	11/28/07 11:13	1.0	+		+	

SAMPLE PREPARATION SUMMARY

Batch # : 132123
Started By : SFH
Method : SHAKER TABLE
Spike #1 ID : S7709
Prep Date : 27-NOV-2007
SOP Version : TEH1_rv9
Spike #2 ID : S7711
Analysis : TEH
Finished By : JJB
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
199402-003		Soil	50.01	5	1	0.09998		1			3630C	TEHM	
199402-005		Soil	50.34	5	1	0.09932		1			3630C	TEHM	
199402-006		Soil	50.29	5	1	0.09942		1			3630C	TEHM	
199402-007		Soil	50.01	5	1	0.09998		1			3630C	TEHM	
199402-016		Soil	50.15	5	1	0.0997		1			3630C	TEHM	
199433-001		Soil	50.27	5	1	0.09946		1			3630C	TEHM	mss
199433-002		Soil	50.27	5	1	0.09946		1			3630C	TEHM	
199433-003		Soil	50.16	5	1	0.09968		1			3630C	TEHM	
199441-008		Soil	50.25	5	1	0.0995		1			3630C	TEHM	
199441-009		Soil	50.27	5	1	0.09946		1			3630C	TEHM	
199441-010		Soil	50	5	1	0.1000		1			3630C	TEHM	
199441-011		Soil	50.11	5	1	0.09978		1			3630C	TEHM	
199441-012		Soil	50.33	5	1	0.09934		1			3630C	TEHM	
199441-013		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
199443-001		Soil	50.05	5	1	0.0999		1				TEHM	
199456-001		Soil	50.1	5	1	0.0998		1				TEHM	
199462-005		Soil	50.06	5	1	0.09988		1			3630C	TEHM	
QC417056	BLANK	Soil	50.15	5	1	0.0997		1			3630C		
QC417057	LCS	Soil	50.08	5	1	0.09984		1	1		3630C		
QC417058	MS	Soil	50.24	5	1	0.09952		1	1		3630C		
QC417059	MSD	Soil	50.11	5	1	0.09978		1	1		3630C		

LH 11/28/07 : I have reviewed the weights and SGCU

Analyst: JDG Date: 11/29/07 Reviewer: MMP Date: 11/29/07

000011

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2587 Page 84

LIMS Batch No: 132123
LIMS Analysis TEHM
Date Extracted: 11/27/07

Extraction Method:
☒ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	199402-003D	50.01	5.0	X	
	-005	50.34			
	-006	50.24			
	-007	50.01			
5	-016	50.15			
	199433-001B	50.27			MSS
	-002A	50.27			
	-003	50.16			
	199441-008D	50.25			
10	-009	50.27			
	-010	50.00			
	-011	50.11			
	-012	50.33			
	-013	50.02			
15	199443-001D	50.05			
	199456-001A	50.10			
	199462-005	50.06		X	
	MB QC417056	50.15			
	LCS 7	50.08			
20	MS 8	50.24			
	MSD 9	50.11			
					SFH 11/27/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47158737	SFH 11/27/07
Samples were dried with CH2Cl2-rinsed ~~powdered~~ granular Na2SO4	↓	
1.0 mL of Surrogate solution was added to all samples	57709A	
1.0 mL of Matrix Spiking solution was added to all spikes	57711B	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all — CH_2Cl_2	EM417158	
Acetone	EM417190	
Samples were: ☒ sonicated 3 times SFH 11/27/07 ☒ placed on shaker table at:	1445	
taken off shaker table at:	1650	SSB 11/27/07
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47073734	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	

11/27/07
Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/27/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: JJB
Cleanup Date: 11/27/07

Benchbook # **2611**
Page 37

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
199402-003	132123	1.0	1.0	
05				
06				
07				
16				
199433-001				MSS
2				
3				
199441-008				
09				
10				
11				
12				
13				
199462-005				
MB QC 417056				
LCS 7				
MS 8				199433-001
MSD 9				
199400-001	132099			
199444-001				
02				
03				
04				
05				
06				MSS
07				
11				
12				
14				

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	N/A	JJB 11/27/07
☒ Extracts were cleaned up using 1.0 g cartridges	SP 9293	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM 47177	
Concentrated to volumes as noted above	✓	

11/27/07
Extraction Chemist / Date

MJP 11/27/07
Continued from page —
Continued on page 38

11/27/07
Reviewed by / Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199402-003D	50.01	TEHM	132123	
-005	50.34			
-006	50.29			
-007	50.01			
-016	50.15			
				ECB 11/27/07
199433-001B	50.27	TEHM	132123 MSS	
-002A	50.27			
-003	50.16			
MB	50.15			EM 471587-37
LCS	50.08			
MS	50.24			199433-001B
MSD	50.11			
				ECB 11/27/07
199427-007A	30.09	8270		
-008	30.13			
				ECB 11/27/07
199427-007A	30.01	PCB		
-008	30.04			
				ECB 11/27/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK2588

Continued from Page

Sample ID	weight(g)	Analysis	Batch #	Comments
MS	30.21	PCB		199440-017B
MSD	30.01	↓		↓
		KML 11/27/07		
199424-001A	50.30	TEHM		
MB	50.10	↓		
LCS	50.28			
MS	50.08			
MSD	50.13			
		EEB 11/27/07		
199462-005	50.06	TEHM	132123	COMP -001, 002, 003, & 4 ALL LETTER A @ 20% EEB
		EEB 11/27/07		
199456-001A	50.10	TEHM	132123	
		EEB 11/27/07		
199441-008D	50.25	TEHM	132123	
-009	50.27	↓	↓	
-010	50.00			
-011	50.11			
-012	50.33			
-013	50.02			
		EEB 11/27/07		

Continued on Page

Read and Understood By

Signed Date Signed Date

Project Soil Aliquot BK 2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENT
199431-001 B	30.06	8081		
-002	30.18			
-003	30.04			
-004	30.05			
-005	30.06			
-006	30.15			
-007	30.00			
-008	30.00			
-009	30.11			
				ECB 11/27/07
199443-001 D	50.05	TPHM	132123	
				SFH 11/27/07

Continued on Page

Read and Understood By

Signed Date Signed Date

8270-SIM
Soil

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX346[5.0]	Batch#:	132057
Lab ID:	199433-001	Sampled:	11/21/07
Matrix:	Soil	Received:	11/21/07
Units:	ug/Kg	Prepared:	11/26/07
Basis:	dry	Analyzed:	11/26/07
Diln Fac:	5.000		

Moisture: 13%

Analyte	Result	RL	MDL
Naphthalene	ND	29	5.4
2-Methylnaphthalene	6.0 J	29	4.7
Acenaphthylene	ND	29	3.6
Acenaphthene	ND	29	4.8
Fluorene	ND	29	4.9
Phenanthrene	15 J	29	4.9
Anthracene	ND	29	4.3
Fluoranthene	23 J	29	4.6
Pyrene	22 J	29	4.1
Benzo(a)anthracene	12 J	29	4.3
Chrysene	14 J	29	4.5
Benzo(b)fluoranthene	16 J	29	6.8
Benzo(k)fluoranthene	7.4 J	29	5.9
Benzo(a)pyrene	14 J	29	3.5
Indeno(1,2,3-cd)pyrene	7.8 J	29	4.8
Dibenz(a,h)anthracene	ND	29	5.0
Benzo(g,h,i)perylene	13 J	29	5.8

Surrogate	%REC	Limits
Nitrobenzene-d5	68	39-136
2-Fluorobiphenyl	80	42-120
Terphenyl-d14	66	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX347[5.0]	Batch#:	132057
Lab ID:	199433-002	Sampled:	11/21/07
Matrix:	Soil	Received:	11/21/07
Units:	ug/Kg	Prepared:	11/26/07
Basis:	dry	Analyzed:	11/27/07
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL	MDL
Naphthalene	2.2 J	5.6	1.1
2-Methylnaphthalene	1.9 J	5.6	0.92
Acenaphthylene	3.3 J	5.6	0.71
Acenaphthene	ND	5.6	0.95
Fluorene	1.4 J	5.6	0.96
Phenanthrene	17	5.6	0.95
Anthracene	3.7 J	5.6	0.84
Fluoranthene	30	5.6	0.91
Pyrene	26	5.6	0.80
Benzo(a)anthracene	13	5.6	0.85
Chrysene	14	5.6	0.88
Benzo(b)fluoranthene	13	5.6	1.3
Benzo(k)fluoranthene	5.0 J	5.6	1.2
Benzo(a)pyrene	14	5.6	0.68
Indeno(1,2,3-cd)pyrene	6.8	5.6	0.95
Dibenz(a,h)anthracene	2.0 J	5.6	0.98
Benzo(g,h,i)perylene	8.9	5.6	1.1

Surrogate	%REC	Limits
Nitrobenzene-d5	52	39-136
2-Fluorobiphenyl	53	42-120
Terphenyl-d14	38	34-130

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX348[5.0]	Batch#:	132057
Lab ID:	199433-003	Sampled:	11/21/07
Matrix:	Soil	Received:	11/21/07
Units:	ug/Kg	Prepared:	11/26/07
Basis:	dry	Analyzed:	11/27/07
Diln Fac:	2.000		

Moisture: 9%

Analyte	Result	RL	MDL
Naphthalene	11	11	2.1
2-Methylnaphthalene	17	11	1.8
Acenaphthylene	36	11	1.4
Acenaphthene	4.3 J	11	1.8
Fluorene	20	11	1.9
Phenanthrene	320	11	1.8
Anthracene	40	11	1.6
Fluoranthene	530	11	1.8
Pyrene	500	11	1.5
Benzo(a)anthracene	240	11	1.6
Chrysene	210	11	1.7
Benzo(b)fluoranthene	200	11	2.6
Benzo(k)fluoranthene	62	11	2.2
Benzo(a)pyrene	180	11	1.3
Indeno(1,2,3-cd)pyrene	87	11	1.8
Dibenz(a,h)anthracene	26	11	1.9
Benzo(g,h,i)perylene	110	11	2.2

Surrogate	%REC	Limits
Nitrobenzene-d5	57	39-136
2-Fluorobiphenyl	60	42-120
Terphenyl-d14	48	34-130

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC416778	Batch#:	132057
Matrix:	Soil	Prepared:	11/26/07
Units:	ug/Kg	Analyzed:	11/26/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.94
2-Methylnaphthalene	ND	5.0	0.82
Acenaphthylene	ND	5.0	0.63
Acenaphthene	ND	5.0	0.84
Fluorene	ND	5.0	0.85
Phenanthrene	ND	5.0	0.85
Anthracene	ND	5.0	0.75
Fluoranthene	ND	5.0	0.81
Pyrene	ND	5.0	0.71
Benzo(a)anthracene	ND	5.0	0.75
Chrysene	ND	5.0	0.78
Benzo(b)fluoranthene	ND	5.0	1.2
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	0.60
Indeno(1,2,3-cd)pyrene	ND	5.0	0.84
Dibenz(a,h)anthracene	ND	5.0	0.87
Benzo(g,h,i)perylene	ND	5.0	1.0

Surrogate	%REC	Limits
Nitrobenzene-d5	62	39-136
2-Fluorobiphenyl	65	42-120
Terphenyl-d14	51	34-130

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

9.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC416779	Batch#:	132057
Matrix:	Soil	Prepared:	11/26/07
Units:	ug/Kg	Analyzed:	11/26/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.39	16.97	51	42-120
Pyrene	33.39	16.51	49	33-120

Surrogate	%REC	Limits
Nitrobenzene-d5	55	39-136
2-Fluorobiphenyl	58	42-120
Terphenyl-d14	49	34-130

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX346[5.0]	Batch#:	132057
MSS Lab ID:	199433-001	Sampled:	11/21/07
Matrix:	Soil	Received:	11/21/07
Units:	ug/Kg	Prepared:	11/26/07
Basis:	dry	Analyzed:	11/27/07
Diln Fac:	5.000		

Type: MS Moisture: 13%
Lab ID: QC416780

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<4.828	38.47	26.70	69	47-120
Pyrene	21.95	38.47	50.03	73	17-146

Surrogate	%REC	Limits
Nitrobenzene-d5	78	39-136
2-Fluorobiphenyl	75	42-120
Terphenyl-d14	61	34-130

Type: MSD Moisture: 13%
Lab ID: QC416781

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	38.48	28.80	75	47-120	8	32
Pyrene	38.48	236.9	559 *	17-146	130 *	47

Surrogate	%REC	Limits
Nitrobenzene-d5	76	39-136
2-Fluorobiphenyl	75	42-120
Terphenyl-d14	60	34-130

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR 199433 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527449989008 File : vk808 Time : 08-NOV-2007 21:18

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	105613	53.38	
68	< 2% of mass 69	0	0.00	
69		134730		
70	< 2% of mass 69	630	0.47	
127	40% - 60% of mass 198	108312	54.74	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	13249	6.70	
275	10% - 30% of mass 198	55312	27.95	
365	> 1% of mass 198	5624	2.84	
441	Present, < mass 443	25229	84.31	
442	> 40% and < 100% of mass 198	154304	77.98	
443	17% - 23% of mass 442	29925	19.39	

Analyst: JAJ Date: 11/09/07 Reviewer: LW Date: 11/12/07

527449989008

CURTIS & TOMPKINS DFTPP TUNE FOR 199433 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527475893002 File : vkq02 Time : 26-NOV-2007 12:01

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	215372	51.45	
68	< 2% of mass 69	0	0.00	
69		260202		
70	< 2% of mass 69	1570	0.60	
127	40% - 60% of mass 198	224170	53.55	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	29528	7.05	
275	10% - 30% of mass 198	118445	28.30	
365	> 1% of mass 198	14458	3.45	
441	Present, < mass 443	52765	90.72	
442	> 40% and < 100% of mass 198	301674	72.07	
443	17% - 23% of mass 442	58160	19.28	

Analyst: JGM Date: 11/27/07 Reviewer: JAJ Date: 11/28/07

527475893002

CURTIS & TOMPKINS DFTPP TUNE FOR 199433 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 527477339001 File : vkr01 Time : 27-NOV-2007 11:39

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	244201	50.81	
68	< 2% of mass 69	0	0.00	
69		308025		
70	< 2% of mass 69	1710	0.56	
127	40% - 60% of mass 198	260224	54.14	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	33386	6.95	
275	10% - 30% of mass 198	130253	27.10	
365	> 1% of mass 198	16306	3.39	
441	Present, < mass 443	58498	89.42	
442	> 40% and < 100% of mass 198	340352	70.81	
443	17% - 23% of mass 442	65418	19.22	

Analyst: JGM Date: 11/27/07 Reviewer: JAJ Date: 11/28/07

527477339001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 199433 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 527449989003
Units : ug/mL

Name : 3PAHSIM
Date : 08-NOV-2007 21:39
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vk809	527449989009	ICAL1	08-NOV-2007 21:39	S7213
L2	vk810	527449989010	ICAL2	08-NOV-2007 22:12	S7214
L3	vk811	527449989011	ICAL3	08-NOV-2007 22:46	S7215
L4	vk812	527449989012	ICAL4	08-NOV-2007 23:21	S7216
L5	vk813	527449989013	ICAL5	08-NOV-2007 23:56	S7217
L6	vk814	527449989014	ICAL6	09-NOV-2007 00:32	S7218
L7	vk815	527449989015	ICAL7	09-NOV-2007 01:04	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1005	1.1174	1.1301	1.1427	1.1419	1.1524	1.1274	AVRG		0.88469		1.1303	2	15	0.05	0.99	
2-Methylnaphthalene	0.7478	0.7522	0.7641	0.7694	0.7720	0.7862	0.7768	AVRG		1.30389		0.7669	2	15	0.05	0.99	
Acenaphthylene	1.6168	1.6367	1.7498	1.8547	1.9248	1.9937	1.9522	AVRG		0.54994		1.8184	8	15	0.05	0.99	
Acenaphthene	1.0848m	1.1039m	1.1336	1.1523	1.1634	1.1995	1.1869	AVRG		0.87233		1.1464	4	15	0.05	0.99	
Fluorene	1.3105	1.3324	1.3703	1.3782	1.3935	1.4300	1.4239	AVRG		0.72622		1.3770	3	15	0.05	0.99	
Phenanthrene	1.2260m	1.2527	1.2638	1.2756	1.2856	1.2953	1.2694	AVRG		0.78932		1.2669	2	15	0.05	0.99	
Anthracene	0.9365m	0.9669	1.0205	1.0818	1.1256	1.1745	1.1699	AVRG		0.93635		1.0680	9	15	0.05	0.99	
Fluoranthene	1.2127	1.2395	1.2794	1.3044	1.3451	1.3498	1.3241	AVRG		0.77305		1.2936	4	15	0.05	0.99	
Pyrene	1.4218	1.4780	1.5018	1.5219	1.5199	1.5321	1.4777	AVRG		0.66965		1.4933	3	15	0.05	0.99	
Benzo(a)anthracene	1.1446	1.1658	1.1995	1.2594	1.3011	1.3470	1.3059	AVRG		0.80243		1.2462	6	15	0.05	0.99	
Chrysene	1.1826m	1.2217m	1.2549m	1.2705	1.2842	1.2926	1.2519	AVRG		0.79924		1.2512	3	15	0.05	0.99	
Benzo(b)fluoranthene	1.3494m	1.3913m	1.4645m	1.4986	1.5319	1.5622	1.5285	AVRG		0.67787		1.4752	5	15	0.05	0.99	
Benzo(k)fluoranthene	1.3090m	1.3508m	1.3644m	1.4291m	1.4533m	1.5152	1.5091	AVRG		0.70488		1.4187	6	15	0.05	0.99	
Benzo(a)pyrene	1.1475m	1.1915m	1.2340m	1.3096	1.3580	1.4514	1.4477	AVRG		0.76589		1.3057	9	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.2534m	1.3086m	1.3575	1.4395	1.4848	1.5706	1.5676	AVRG		0.70126		1.4260	9	15	0.05	0.99	
Dibenz(a,h)anthracene	1.0223	1.0639	1.0988	1.1683	1.2028	1.2826	1.2921	AVRG		0.86092		1.1616	9	15	0.05	0.99	
Benzo(g,h,i)perylene	1.1082	1.1638	1.1822	1.2408	1.2618	1.2822	1.2684	AVRG		0.82281		1.2153	5	15	0.05	0.99	
Nitrobenzene-d5	0.3937m	0.3942m	0.4208	0.4420	0.4713	0.5040	0.5086	AVRG		2.23312		0.4478	11	15	0.05	0.99	
2-Fluorobiphenyl	1.3689	1.3902	1.4139	1.4241	1.4129	1.4172	1.3818	AVRG		0.71364		1.4013	1	15	0.05	0.99	
Terphenyl-d14	1.0154	1.0592	1.0668	1.0868	1.0764	1.0869	1.0605	AVRG		0.93936		1.0646	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-3	0.200	-1	0.500	0	1.000	1	2.000	1	5.000	2	10.00	0
2-Methylnaphthalene	0.100	-2	0.200	-2	0.500	0	1.000	0	2.000	1	5.000	3	10.00	1
Acenaphthylene	0.100	-11	0.200	-10	0.500	-4	1.000	2	2.000	6	5.000	10	10.00	7
Acenaphthene	0.100	-5	0.200	-4	0.500	-1	1.000	1	2.000	1	5.000	5	10.00	4
Fluorene	0.100	-5	0.200	-3	0.500	0	1.000	0	2.000	1	5.000	4	10.00	3
Phenanthrene	0.100	-3	0.200	-1	0.500	0	1.000	1	2.000	1	5.000	2	10.00	0
Anthracene	0.100	-12	0.200	-9	0.500	-4	1.000	1	2.000	5	5.000	10	10.00	10
Fluoranthene	0.100	-6	0.200	-4	0.500	-1	1.000	1	2.000	4	5.000	4	10.00	2
Pyrene	0.100	-5	0.200	-1	0.500	1	1.000	2	2.000	2	5.000	3	10.00	-1
Benzo(a)anthracene	0.100	-8	0.200	-6	0.500	-4	1.000	1	2.000	4	5.000	8	10.00	5
Chrysene	0.100	-5	0.200	-2	0.500	0	1.000	2	2.000	3	5.000	3	10.00	0
Benzo(b)fluoranthene	0.100	-9	0.200	-6	0.500	-1	1.000	2	2.000	4	5.000	6	10.00	4
Benzo(k)fluoranthene	0.100	-8	0.200	-5	0.500	-4	1.000	1	2.000	2	5.000	7	10.00	6
Benzo(a)pyrene	0.100	-12	0.200	-9	0.500	-5	1.000	0	2.000	4	5.000	11	10.00	11
Indeno(1,2,3-cd)pyrene	0.100	-12	0.200	-8	0.500	-5	1.000	1	2.000	4	5.000	10	10.00	10
Dibenz(a,h)anthracene	0.100	-12	0.200	-8	0.500	-5	1.000	1	2.000	4	5.000	10	10.00	11
Benzo(g,h,i)perylene	0.100	-9	0.200	-4	0.500	-3	1.000	2	2.000	4	5.000	6	10.00	4
Nitrobenzene-d5	0.100	-12	0.200	-12	0.500	-6	1.000	-1	2.000	5	5.000	13	10.00	14
2-Fluorobiphenyl	0.100	-2	0.200	-1	0.500	1	1.000	2	2.000	1	5.000	1	10.00	-1
Terphenyl-d14	0.100	-5	0.200	-1	0.500	0	1.000	2	2.000	1	5.000	2	10.00	0

JAJ 11/09/07 : All manual integrations performed in order to match baseline and/or to include the appropriate amount of tailing.

Analyst: JAJ Date: 11/12/07 Reviewer: LW Date: 11/12/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 199433 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Name : 3PAHSIM
Calnum : 527449989003 Cal Date : 08-NOV-2007

ICV 527449989016 (vk816 09-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1303	1.0585	1.000	0.9364	ug/mL	-6	20	
2-Methylnaphthalene	0.7669	0.6933	1.000	0.9040	ug/mL	-10	20	
Acenaphthylene	1.8184	1.7016	1.000	0.9358	ug/mL	-6	20	
Acenaphthene	1.1464	1.0684	1.000	0.9320	ug/mL	-7	20	
Fluorene	1.3770	1.2890	1.000	0.9361	ug/mL	-6	20	
Phenanthrene	1.2669	1.1862	1.000	0.9363	ug/mL	-6	20	
Anthracene	1.0680	1.0902	1.000	1.021	ug/mL	2	20	
Fluoranthene	1.2936	1.2479	1.000	0.9647	ug/mL	-4	20	
Pyrene	1.4933	1.4233	1.000	0.9531	ug/mL	-5	20	
Benzo(a)anthracene	1.2462	1.1492	1.000	0.9221	ug/mL	-8	20	
Chrysene	1.2512	1.1868	1.000	0.9486	ug/mL	-5	20	m
Benzo(b)fluoranthene	1.4752	1.4257	1.000	0.9664	ug/mL	-3	20	
Benzo(k)fluoranthene	1.4187	1.3464	1.000	0.9490	ug/mL	-5	20	m
Benzo(a)pyrene	1.3057	1.1894	1.000	0.9109	ug/mL	-9	20	
Indeno(1,2,3-cd)pyrene	1.4260	1.2584	1.000	0.8825	ug/mL	-12	20	
Dibenz(a,h)anthracene	1.1616	1.0630	1.000	0.9152	ug/mL	-8	20	
Benzo(g,h,i)perylene	1.2153	1.1227	1.000	0.9237	ug/mL	-8	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 0.5/2.5UG/ML IDF : 1.0
Seqnum : 527475893003.1 File : vkq03 Time : 26-NOV-2007 12:22
Cal : 527449989003 Caldate : 08-NOV-2007
Standards: S7215

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1303	1.0697	0.5000	0.4732	ug/mL	-5	20	0.0500	
2-Methylnaphthalene	0.7669	0.7766	0.5000	0.5063	ug/mL	1	20	0.0500	
Acenaphthylene	1.8184	1.7552	0.5000	0.4826	ug/mL	-3	20	0.0500	
Acenaphthene	1.1464	1.0809	0.5000	0.4715	ug/mL	-6	20	0.0500	
Fluorene	1.3770	1.2588	0.5000	0.4571	ug/mL	-9	20	0.0500	
Phenanthrene	1.2669	1.2775	0.5000	0.5042	ug/mL	1	20	0.0500	
Anthracene	1.0680	1.0685	0.5000	0.5003	ug/mL	0	20	0.0500	m
Fluoranthene	1.2936	1.5021	0.5000	0.5806	ug/mL	16	20	0.0500	
Pyrene	1.4933	1.3061	0.5000	0.4373	ug/mL	-13	20	0.0500	
Benzo(a)anthracene	1.2462	1.2804	0.5000	0.5137	ug/mL	3	20	0.0500	
Chrysene	1.2512	1.2588	0.5000	0.5030	ug/mL	1	20	0.0500	
Benzo(b)fluoranthene	1.4752	1.4122	0.5000	0.4786	ug/mL	-4	20	0.0500	
Benzo(k)fluoranthene	1.4187	1.4136	0.5000	0.4982	ug/mL	0	20	0.0500	m
Benzo(a)pyrene	1.3057	1.2984	0.5000	0.4972	ug/mL	-1	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4260	1.2616	0.5000	0.4424	ug/mL	-12	20	0.0500	m
Dibenz(a,h)anthracene	1.1616	1.0107	0.5000	0.4351	ug/mL	-13	20	0.0500	
Benzo(g,h,i)perylene	1.2153	1.0705	0.5000	0.4404	ug/mL	-12	20	0.0500	m
Nitrobenzene-d5	0.4478	0.4398	0.5000	0.4910	ug/mL	-2	20	0.0500	
2-Fluorobiphenyl	1.4013	1.4868	0.5000	0.5305	ug/mL	6	20	0.0500	
Terphenyl-d14	1.0646	0.8963	0.5000	0.4210	ug/mL	-16	20	0.0500	

Analyst: JGM Date: 11/27/07 Reviewer: JAJ Date: 11/28/07

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 199433 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 2/10UG/ML IDF : 1.0
Seqnum : 527477339002.1 File : vkr02 Time : 27-NOV-2007 11:59
Cal : 527449989003 Caldate : 08-NOV-2007
Standards: S7217

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1303	1.1021	2.000	1.950	ug/mL	-3	20	0.0500	
2-Methylnaphthalene	0.7669	0.7913	2.000	2.063	ug/mL	3	20	0.0500	
Acenaphthylene	1.8184	1.9692	2.000	2.166	ug/mL	8	20	0.0500	
Acenaphthene	1.1464	1.1301	2.000	1.972	ug/mL	-1	20	0.0500	
Fluorene	1.3770	1.3960	2.000	2.028	ug/mL	1	20	0.0500	
Phenanthrene	1.2669	1.2853	2.000	2.029	ug/mL	1	20	0.0500	
Anthracene	1.0680	1.1689	2.000	2.189	ug/mL	9	20	0.0500	
Fluoranthene	1.2936	1.5343	2.000	2.372	ug/mL	19	20	0.0500	
Pyrene	1.4933	1.3079	2.000	1.752	ug/mL	-12	20	0.0500	
Benzo(a)anthracene	1.2462	1.3767	2.000	2.209	ug/mL	10	20	0.0500	
Chrysene	1.2512	1.3081	2.000	2.091	ug/mL	5	20	0.0500	
Benzo(b)fluoranthene	1.4752	1.4799	2.000	2.006	ug/mL	0	20	0.0500	
Benzo(k)fluoranthene	1.4187	1.4047	2.000	1.980	ug/mL	-1	20	0.0500	
Benzo(a)pyrene	1.3057	1.3778	2.000	2.111	ug/mL	6	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4260	1.2897	2.000	1.809	ug/mL	-10	20	0.0500	
Dibenz(a,h)anthracene	1.1616	1.0366	2.000	1.785	ug/mL	-11	20	0.0500	
Benzo(g,h,i)perylene	1.2153	1.0379	2.000	1.708	ug/mL	-15	20	0.0500	
Nitrobenzene-d5	0.4478	0.4946	2.000	2.209	ug/mL	10	20	0.0500	
2-Fluorobiphenyl	1.4013	1.4895	2.000	2.126	ug/mL	6	20	0.0500	
Terphenyl-d14	1.0646	0.9238	2.000	1.736	ug/mL	-13	20	0.0500	

Analyst: JGM Date: 11/27/07 Reviewer: JAJ Date: 11/28/07

527477339002.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 527475893

Date : 11/26/07
Sequence : MSBNA03 vkq

Reference : vkq03
Analyzed : 11/26/07 12:22

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	30098	7.39	97189	9.02	62541	11.32	104511	13.26	123835	16.70	103681	18.43
		LOWER LIMIT	15049	6.89	48595	8.52	31271	10.82	52256	12.76	61918	16.20	51841	17.93
		UPPER LIMIT	60196	7.89	194378	9.52	125082	11.82	209022	13.76	247670	17.20	207362	18.93
003	CCV	0.5/2.5UG/ML	30098	7.39	97189	9.02	62541	11.32	104511	13.26	123835	16.70	103681	18.43
004	SAMPLE	199390-014	29084	7.40	94100	9.02	64165	11.32	111490	13.26	131601	16.70	110854	18.43
005	BLANK	QC416778	31237	7.39	102523	9.02	69246	11.31	124068	13.26	149664	16.70	117772	18.42
006	LCS	QC416779	28844	7.40	94686	9.02	64228	11.31	115262	13.26	134909	16.70	114062	18.43
007	MSS	199433-001	28582	7.39	91172	9.02	61528	11.31	105393	13.26	127117	16.70	113185	18.43
008	MS	QC416780	30934	7.39	100761	9.02	67121	11.31	114464	13.26	131136	16.70	108077	18.43
009	MSD	QC416781	31800	7.39	104444	9.02	69234	11.31	117360	13.26	132363	16.71	108024	18.43

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 527477339

Date : 11/27/07
Sequence : MSBNA03 vkr

Reference : vkr02
Analyzed : 11/27/07 11:59

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	31674	7.38	103284	9.00	66023	11.30	113843	13.25	134257	16.69	116977	18.41
		LOWER LIMIT	15837	6.88	51642	8.50	33012	10.80	56922	12.75	67129	16.19	58489	17.91
		UPPER LIMIT	63348	7.88	206568	9.50	132046	11.80	227686	13.75	268514	17.19	233954	18.91
002	CCV	2/10UG/ML	31674	7.38	103284	9.00	66023	11.30	113843	13.25	134257	16.69	116977	18.41
003	SAMPLE	199433-002	26332	7.39	87963	9.01	61143	11.30	110030	13.25	162587	16.69	145585	18.42
004	SAMPLE	199433-003	24894	7.38	82443	9.01	56833	11.30	100222	13.25	137414	16.69	125313	18.42
005	SAMPLE	199424-001	26005	7.38	85361	9.01	59962	11.30	102182	13.25	115750	16.69	106079	18.42
006	SAMPLE	199424-002	25791	7.38	84929	9.00	57437	11.30	99216	13.25	121331	16.69	106299	18.42
007	SAMPLE	199424-003	26431	7.38	88101	9.01	60879	11.30	105077	13.25	131255	16.69	118019	18.42
008	SAMPLE	199424-004	26009	7.38	83443	9.01	56495	11.30	92862	13.25	100886	16.70	99083	18.42
009	SAMPLE	199424-005	25075	7.39	82873	9.01	56685	11.30	100004	13.25	129868	16.69	114620	18.42
010	SAMPLE	199424-006	25174	7.38	81424	9.00	55903	11.30	91249	13.25	97619	16.70	93236	18.42
011	SAMPLE	199424-007	25969	7.38	85860	9.01	58960	11.30	95400	13.25	106289	16.70	100821	18.42
012	SAMPLE	199424-008	26778	7.38	89906	9.01	62348	11.30	96671	13.25	107352	16.70	101962	18.43
013	SAMPLE	199424-009	27637	7.38	89670	9.01	61050	11.30	98316	13.25	109710	16.70	103898	18.42
014	SAMPLE	199424-010	26790	7.38	89205	9.00	61272	11.31	97026	13.25	110016	16.70	101812	18.43
015	SAMPLE	199424-011	24368	7.38	82349	9.01	56139	11.30	95389	13.25	104292	16.70	90986	18.42
016	MS	QC416780	25888	7.38	85770	9.00	57811	11.30	98637	13.25	121662	16.69	99519	18.42
017	MSD	QC416781	24651	7.38	81218	9.00	54842	11.30	94724	13.24	116664	16.69	94846	18.42

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527449989

Instrument : MSBNA03 Begun : 11/08/07 11:49
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vk801	TUN	DFTPP/PEM 50UG/ML			11/08/07 11:49	1.0	1	
002	vk802	TUN	DFTPP/PEM 50UG/ML			11/08/07 15:53	1.0	1	
003	vk803	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:04	1.0	1	
004	vk804	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:23	1.0	1	
005	vk805	TUN	DFTPP/PEM 50UG/ML			11/08/07 17:51	1.0	1	
006	vk806	CCV	RTUPDATE - SCAN MODE			11/08/07 18:11	1.0	2	16:BZBF=16
007	vk807	CCV	RTUPDATE - SIM MODE			11/08/07 20:32	1.0	2	16:DIOXANE14=94
008	vk808	TUN	DFTPP/PEM 50UG/ML			11/08/07 21:18	1.0	1	
009	vk809	ICAL	ICAL1			11/08/07 21:39	1.0	3	
010	vk810	ICAL	ICAL2			11/08/07 22:12	1.0	4	
011	vk811	ICAL	ICAL3			11/08/07 22:46	1.0	5	
012	vk812	ICAL	ICAL4			11/08/07 23:21	1.0	6	
013	vk813	ICAL	ICAL5			11/08/07 23:56	1.0	7	
014	vk814	ICAL	ICAL6			11/09/07 00:32	1.0	8	
015	vk815	ICAL	ICAL7			11/09/07 01:04	1.0	2	
016	vk816	ICV	1/10 ICV			11/09/07 01:38	1.0	9	

Analyst: JAJ Date: 11/12/07 Reviewer: LW Date: 11/12/07

Standards used: 1=S7320 2=S7219 3=S7213 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218 9=S7592

00054

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527475893

Instrument : MSBNA03 Begun : 11/26/07 11:33
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vkq01	TUN	DFTPP/PEM 50UG/ML			11/26/07 11:33	1.0	1
002	vkq02	TUN	DFTPP/PEM 50UG/ML			11/26/07 12:01	1.0	1
003	vkq03	CCV	0.5/2.5UG/ML			11/26/07 12:22	1.0	2
004	vkq04	SAMPLE	199390-014	Soil	131944	11/26/07 12:58	1.0	3
005	vkq05	BLANK	QC416778	Soil	132057	11/26/07 15:54	1.0	3
006	vkq06	LCS	QC416779	Soil	132057	11/26/07 16:28	1.0	3
007	vkq07	MSS	199433-001	Soil	132057	11/26/07 17:03	5.0	3
008	vkq08	MS	QC416780	Soil	132057	11/26/07 17:39	5.0	3
009	vkq09	MSD	QC416781	Soil	132057	11/26/07 18:14	5.0	3
010	vkq10	TUN	DFTPP/PEM 50UG/ML			11/26/07 20:47	1.0	1
011	vkq11	CCV	0.5/2.5UG/ML			11/26/07 21:08	1.0	4
012	vkq12	CCV	0.5/2.5UG/ML			11/26/07 21:54	1.0	2
013	vkq13	SAMPLE	199433-002	Soil	132057	11/26/07 22:32	3.0	3
014	vkq14	SAMPLE	199433-003	Soil	132057	11/26/07 23:05	3.0	3
015	vkq15	SAMPLE	199444-001	Soil	132057	11/26/07 23:39	1.0	3
016	vkq16	SAMPLE	199444-002	Soil	132057	11/27/07 00:13	1.0	3
017	vkq17	SAMPLE	199444-003	Soil	132057	11/27/07 00:48	1.0	3
018	vkq18	SAMPLE	199444-007	Soil	132057	11/27/07 01:23	1.0	3
019	vkq19	SAMPLE	199424-001	Soil	132057	11/27/07 01:58	1.0	3
020	vkq20	SAMPLE	199424-002	Soil	132057	11/27/07 02:34	5.0	3
021	vkq21	SAMPLE	199424-003	Soil	132057	11/27/07 03:09	1.0	3
022	vkq22	SAMPLE	199424-004	Soil	132057	11/27/07 03:45	20.0	3
023	vkq23	SAMPLE	199424-005	Soil	132057	11/27/07 04:21	1.0	3
024	vkq24	SAMPLE	199424-006	Soil	132057	11/27/07 04:57	50.0	3
025	vkq25	SAMPLE	199424-007	Soil	132057	11/27/07 05:33	50.0	3
026	vkq26	SAMPLE	199424-008	Soil	132057	11/27/07 06:08	50.0	3
027	vkq27	SAMPLE	199424-009	Soil	132057	11/27/07 06:44	50.0	3
028	vkq28	SAMPLE	199424-010	Soil	132057	11/27/07 07:20	50.0	3
029	vkq29	SAMPLE	199424-011	Soil	132057	11/27/07 07:55	1.0	3
030	vkq30	SAMPLE	199444-004	Soil	132057	11/27/07 08:30	3.0	3
031	vkq31	SAMPLE	199444-005	Soil	132057	11/27/07 09:06	3.0	3

Standards used: 1=S7320 2=S7215 3=S7591 4=S7216

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 527477339

Instrument : MSBNA03 Begun : 11/27/07 11:39
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vkr01	TUN	DFTPP/PEM 50UG/ML			11/27/07 11:39	1.0	1
002	vkr02	CCV	2/10UG/ML			11/27/07 11:59	1.0	2
003	vkr03	SAMPLE	199433-002	Soil	132057	11/27/07 12:33	1.0	3
004	vkr04	SAMPLE	199433-003	Soil	132057	11/27/07 13:07	2.0	3
005	vkr05	SAMPLE	199424-001	Soil	132057	11/27/07 13:43	1.0	3
006	vkr06	SAMPLE	199424-002	Soil	132057	11/27/07 14:16	5.0	3
007	vkr07	SAMPLE	199424-003	Soil	132057	11/27/07 14:50	1.0	3
008	vkr08	SAMPLE	199424-004	Soil	132057	11/27/07 15:25	20.0	3
009	vkr09	SAMPLE	199424-005	Soil	132057	11/27/07 16:01	1.0	3
010	vkr10	SAMPLE	199424-006	Soil	132057	11/27/07 16:33	50.0	3
011	vkr11	SAMPLE	199424-007	Soil	132057	11/27/07 17:07	50.0	3
012	vkr12	SAMPLE	199424-008	Soil	132057	11/27/07 17:43	50.0	3
013	vkr13	SAMPLE	199424-009	Soil	132057	11/27/07 18:19	50.0	3
014	vkr14	SAMPLE	199424-010	Soil	132057	11/27/07 18:55	50.0	3
015	vkr15	SAMPLE	199424-011	Soil	132057	11/27/07 19:32	1.0	3
016	vkr16	MS	QC416780	Soil	132057	11/27/07 20:05	5.0	3
017	vkr17	MSD	QC416781	Soil	132057	11/27/07 20:38	5.0	3

Standards used: 1=S7320 2=S7217 3=S7591

REPORTING SUMMARY FOR 199433 MSSIM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	NAPH	ACNP	ACNP2	FL	PHAN	AANTH	FLA	PYR	BZAA	CHRY	BZBF	BZKF	BZAP	INP1	DBAH	BZHG	NO2	PHE	PHEN2
199433-001	MSBNA03	11/26/07 17:03	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
199433-002	MSBNA03	11/26/07 22:32	3.0																			
199433-002	MSBNA03	11/27/07 12:33	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
199433-003	MSBNA03	11/26/07 23:05	3.0																			
199433-003	MSBNA03	11/27/07 13:07	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC416778	MSBNA03	11/26/07 15:54	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC416779	MSBNA03	11/26/07 16:28	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC416780	MSBNA03	11/26/07 17:39	5.0																			
QC416780	MSBNA03	11/27/07 20:05	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC416781	MSBNA03	11/26/07 18:14	5.0																			
QC416781	MSBNA03	11/27/07 20:38	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

00057

SAMPLE PREPARATION SUMMARY

Batch # : 132057
Started By : SFH
Method : 3550B
Spike #1 ID : S7612

Prep Date : 26-NOV-2007

Spike #2 ID : S7566

Analysis : SIM
Finished By : SFH
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
199424-001		Soil	30.1	1	1	0.03322		1				8270-SIM	
199424-002		Soil	30.08	1	1	0.03324		1				8270-SIM	
199424-003		Soil	30.17	1	1	0.03315		1				8270-SIM	
199424-004		Soil	29.95	1	1	0.03339		1				8270-SIM	
199424-005		Soil	29.68	1	1	0.03369		1				8270-SIM	
199424-006		Soil	29.93	2	1	0.06682		1				8270-SIM	
199424-007		Soil	29.73	2.5	1	0.08409		1				8270-SIM	
199424-008		Soil	29.84	2.5	1	0.08378		1				8270-SIM	
199424-009		Soil	30.08	2	1	0.06649		1				8270-SIM	
199424-010		Soil	29.87	2.5	1	0.0837		1				8270-SIM	
199424-011		Soil	29.87	1	1	0.03348		1				8270-SIM	
199433-001		Soil	30.03	1	1	0.0333		1				8270-SIM	MSS
199433-002		Soil	29.91	1	1	0.03343		1				8270-SIM	
199433-003		Soil	30.35	1	1	0.03295		1				8270-SIM	
199444-001		Soil	29.96	1	1	0.03338		1				8270-SIM	
199444-002		Soil	29.97	1	1	0.03337		1				8270-SIM	
199444-003		Soil	29.96	1	1	0.03338		1				8270-SIM	
199444-004		Soil	29.92	1	1	0.03342		1				8270-SIM	
199444-005		Soil	29.94	1	1	0.0334		1				8270-SIM	
199444-007		Soil	30.03	1	1	0.0333		1				8270-SIM	
QC416778	BLANK	Soil	30.05	1	1	0.03328		1					
QC416779	LCS	Soil	29.95	1	1	0.03339		1	1				
QC416780	MS	Soil	29.88	1	1	0.03347		1	1				of 199433-001
QC416781	MSD	Soil	29.87	1	1	0.03348		1	1				of 199433-001

AD 11/27/07 : Reviewed paperwork.

AD 11/28/07 : MSS/MS/MSD is a confirmed non-homogeneous matrix.

Analyst: JGM Date: 11/27/07 Reviewer: AD Date: 11/28/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 21 **BK 2614**

LIMS Batch No: 132057 Extraction Method:
LIMS Analysis 8270-SIM ☒ EPA 3550b Sonication
Date Extracted: 11/26/07 ☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	199424-001 A	30.10	1.0		
	-002	30.08			
	-003	30.17			
	-004	29.95			
5	-005	29.68			
	-006	29.93	2.0		very dark, would not conc. further
	-007	29.73	2.5		
	-008	29.84	2.5		
	-009	30.08	2.0		
10	-010	29.87 SFH 11/26	~~2.0~~ 2.5		
	-011	29.87	1.0		
	199433-001 A	30.03			MSS
	-002	29.91			
	-003	30.35			
15	199444-001 B	29.96			
	-002	29.97			
	-003	29.96			
	-004	29.92			
	-005 A	29.94			
20	-007 B	30.03			
	MB QC416778	~~30.35~~	2.0		
	LCS 79	29.95			
	MS 80	29.88			of 199433-001
	MSD 81	29.87			SFH 11/26/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM 47158737	SFH 11/26/07
1.0 mL of surrogate solution was added to all samples	S7612B	
1.0 mL of matrix spiking solution was added to all spikes	S7566A	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM 47158	
Acetone	EM 47140	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM 47073734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓	

11/26/07
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11.27.07
Reviewed by / Date

Project SOIL ALIQUOT BK2588

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199424-001A	49.79	TEHM		
002	50.02			
003	50.07			
004	50.23			
005	49.97			
006	50.15			
007	50.22			
008	50.14			
009	50.36			
010	49.94			
011	50.23			
199424-001	30.10	8270-SIM	132057	
002	30.06			
003	30.17			
004	29.95			
005	29.68			
006	29.93			
007	29.73			
008	29.84			
009	30.08			
010	29.87			
011	29.87			
199444-001B	50.23	TEHM		
002B	49.98			
003B	50.28			
004B	49.85			
005A	49.89			
006C	49.90			MS5
007B	49.93			
011B	50.01			
012A	50.10			
014A	50.08			
MB	50.00			EM47158737
LCS	50.14			↓
MS	50.28			199444-006C
MSD	50.00			

Continued on Page

Read and Understood By RFW 11/25/07

Signed Date Signed Date

Project Soil Aliquot Extraction BK 24588 RFW 11/25/02

Continued from Page

Sample ID	Weight (g)	Analysis	Batch #	Comments
199433-001A	30.03	8270-SVM	132057	MS5
002A	29.91			
003A	30.35			
MB	30.05			ZM4715737
LCS	29.95			
MS	29.88			199433-001A
MSD	29.87			
199444-001B	29.96	8270-SVM	132057	
002B	29.97			
003B	29.96			
004B	29.92			
005A	29.94			
006C	30.18			MS5
007B	30.03		132057	
011B	30.01			
012A	30.03			
014A	29.95			
MB	29.91			ZM4715737
LCS	29.91			
MS	29.99			199444-006C
MSD	30.12			
			RFW	11/25/02

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd.

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	132051
Matrix:	Soil	Sampled:	11/21/07
Units:	%	Received:	11/21/07
Diln Fac:	1.000	Analyzed:	11/24/07

Field ID	Lab ID	Result	RL
1065EX346[5.0]	199433-001	13	1
1065EX347[5.0]	199433-002	11	1
1065EX348[5.0]	199433-003	9	1

RL= Reporting Limit

16.0

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	199433	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	132051
MSS Lab ID:	199336-001	Sampled:	11/16/07
Lab ID:	QC416754	Received:	11/16/07
Matrix:	Soil	Analyzed:	11/24/07

MSS Result	Result	RL	RPD	Lim
4.761	4.676	1.000	2	15

RL= Reporting Limit
RPD= Relative Percent Difference

17.0

Percent Moisture Summary Report

Batch: 132051
Date: 11/24/07
Method: CLP SOW 390
Analyst: HO

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
199299-001	11.2418	19.8614	19.3008	93	7
199299-002	11.3246	18.5522	18.3927	98	2
199299-003	11.3354	18.9453	17.9562	87	13
199299-004	11.3412	16.4368	15.8371	88	12
199299-005	10.9774	18.9804	17.8560	86	14
199336-001	10.9472	19.2416	18.8467	95	5
199336-002	10.9681	19.8524	18.2074	81	19
199336-003	10.8901	18.8199	17.0323	77	23
199352-001	11.2604	18.1395	16.6352	78	22
199362-001	11.3731	17.0163	15.4156	72	28
199362-002	11.2442	18.2277	16.3795	74	26
199362-003	10.9806	16.1372	14.7534	73	27
199362-004	11.6666	16.9559	15.3905	70	30
199421-006	11.2567	19.8333	18.5313	85	15
199421-011	11.3670	17.3546	16.6121	88	12
199433-001	11.3606	19.7595	18.6977	87	13
199433-002	11.3760	20.4731	19.4963	89	11
199433-003	11.2903	19.4049	18.6678	91	9
QC416754	11.3275	19.0183	18.6587	95	5
of 199336-001			RPD:	0.1%	1.8%

11.24.07

BA 132051

SAMPLE	SL	DISH	DISH WT	SAMPLE WT	FINAL WT	COMMENTS
BLK	-	Z00	11.3544	0	11.3544	
199299-001	A	GT19	11.2418	19.8614	19.3008	
002		D33	11.3246	18.5522	18.3927	
003		D32	11.3354	18.9453	17.9562	
004		A04	11.3412	16.4368	15.8371	
005		2	10.9774	18.9804	17.8560	
199352-001	A	A01	11.2604	18.1395	16.6352	
199336-001	A	JL0	10.9472	19.2466	18.8467	
002		B122	10.9681	19.8524	18.2074	
003		ZAX	10.8901	18.8199	17.0323	
SDUP ~~199336~~ 001		A08	11.3275	19.0183	18.6587	
199362-001	B	GT13	11.3731	17.0163	15.4156	
002		K10	11.2442	18.2277	16.3795	
003		12A	10.9806	16.1372	14.5734	
004		AMS	11.6666	16.9559	15.3905	
199421-006	A-E	K09	11.2567	19.8333	18.5313	comp(1-5) @ 10g cmt
001	A-D	GT24	11.3670	17.3546	16.6121	comp(7-10) @ 10g cmt
199433-001	A	C24	11.3606	19.7596	18.6977	
002		GT18	11.3760	20.4734	19.4963	
003		GT28	11.2903	19.4049	18.6678	

TIME IN : 3:45 P
OUT
OVEN TEMP

Continued on Page

Read and Understood By

Signed 11.24.07 Signed

Date Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 132051
Date Started: 24-NOV-2007
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
199299-001		Mactec, Inc.	Soil	MOISTURE	26-NOV-2007
199299-002		Mactec, Inc.	Soil	MOISTURE	26-NOV-2007
199299-003		Mactec, Inc.	Soil	MOISTURE	26-NOV-2007
199299-004		Mactec, Inc.	Soil	MOISTURE	26-NOV-2007
199299-005		Mactec, Inc.	Soil	MOISTURE	26-NOV-2007
199336-001		Blasland, Bouck &	Soil	MOISTURE	26-NOV-2007
199336-002		Blasland, Bouck &	Soil	MOISTURE	26-NOV-2007
199336-003		Blasland, Bouck &	Soil	MOISTURE	26-NOV-2007
199352-001		CH2M Hill Construc	Soil	MOISTURE	26-NOV-2007
199362-001		Shaw Environmental	Soil	MOISTURE	27-NOV-2007
199362-002		Shaw Environmental	Soil	MOISTURE	27-NOV-2007
199362-003		Shaw Environmental	Soil	MOISTURE	27-NOV-2007
199362-004		Shaw Environmental	Soil	MOISTURE	27-NOV-2007
199421-006		Shaw E&I	Soil	MOISTURE	27-NOV-2007
199421-011		Shaw E&I	Soil	MOISTURE	27-NOV-2007
199433-001		Mactec, Inc.	Soil	MOISTURE	27-NOV-2007
199433-002		Mactec, Inc.	Soil	MOISTURE	27-NOV-2007
199433-003		Mactec, Inc.	Soil	MOISTURE	27-NOV-2007
QC416754	SDUP of 199336-001		Soil	MOISTURE	

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	VV	105°C
9-23-07	HO	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	105°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	HO	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HO	105°C
10-7-07	HO	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HO	104°C
10-14-07	HO	104°C
10-16-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HO	105°C
10-21-07	HO	105°C
10-22-07	VV	103°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	HO	105°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	MDW	103°C
11-1-07	VV	103°C
11-2-07	VV	104°C
11-3-07	HO	105°C
11-4-07	HO	105°C

Date	Initials	Temp (*C)
11-5-07	VV	103°C
11-6-07	VV	104°C
11-07-07	VV	103°C
11-8-07	VV	105°C
11-9-07	VV	105°C
11-10-07	HO	105°C
11-11-07	HO	105°C
11-12-07	VV	105°C
11-13-07	VV	104°C
11-14-07	VV	104°C
11-15-07	VV	104°C
11-16-07	VV	103°C
11-17-07	HO	105°C
11-18-07	HO	105°C
11-19-07	VV	103°C
11-20-07	VV	103°C
11-24-07	HO	105°C
11-25-07	HO	105°C

PROJECT METTLER AE-2000

Notebook No. BK4952

Continued From Page 0

DATE	0.2000	1.0000	10.0000	50.0000	INTIAL	Weight SET
10-19-07	0.2000	1.0000	10,0000	50.0000	VV	35298
10-20-07	0.2000	1.0000	10.0000	50.0000	TO	35298
10-21-07	0.2000	1.0000	10.0000	50.0000	Ho	35298
10-22-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-23-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-24-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-25-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-27-07	0.2000	1.0000	10.0000	50.0000	Ho	35298
10-29-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-30-07	0.2000	1.0000	10.0000	50.0000	VV	35298
10-31-07	0.2000	1.0000	10.0000	50.0000	MW	35298
11-1-07	0.2000	1.0000	10.000	50.0000	VV	35298
11-2-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-3-07	0.2000	1.0000	10.0000	49.9999	Ho	35298
11-4-07	0.2000	1.0000	10.0000	50.0000	Ho	35298
11-5-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-6-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-7-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-8-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-9-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-10-07	0.2000	1.0000	10.0000	50.0000	Ho	35298
11-11-07	0.2000	1.0000	10.0000	50.0000	Ho	35298
11-12-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-13-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-14-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-15-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-16-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-17-07	0.2000	1.0000	10.0000	50.0000	Ho	35298
11-18-07	2.0000	1.0000	10.0000	50.0000	Ho	35298
11-19-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-20-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-24-07	0.2000	1.0000	10.0000	50.0000	Ho	35298

Continued on Page

Read and Understood By

Signed Date Signed Date

DATE	0.2000	1.0000	10.0000	50.0000	INITIALS	WEIGHT SET
11-25-07	0.2000	1.0000	10.0000	49.9999	tlo	35298

Continued on Page

Read and Understood By

Signed	Date	Signed	Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 200073
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 Presidio Level : III

Sample ID	Lab ID
1065SD100[5.5]	200073-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 01/10/2008
Project Manager

Signature: _____ Date: 01/10/2008
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**200073**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**12/19/07**
Samples Received:	**12/19/07**

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 12/19/07. The sample was received on ice and intact, directly from the field.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High recovery was observed for gasoline C7-C12 in the MSD of 1065SD100[5.5] (lab # 200073-001); the high recovery was confirmed by re-analysis, the LCS was within limits, and the associated RPD was within limits. High surrogate recoveries were observed for bromofluorobenzene (FID) in 1065SD100[5.5] (lab # 200073-001) and the MS/MSD of 1065SD100[5.5] (lab # 200073-001), due to matrix interference; the corresponding trifluorotoluene (FID) surrogate recoveries were within limits. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 133037; this analyte was detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
Matrix spikes were not reported for 1065SD100[5.5] (lab # 200073-001) because the parent sample required a dilution that would have diluted out the spikes. 1065SD100[5.5] (lab # 200073-001) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High responses were observed for acetone, 2,2-dichloropropane, and 1,1,1-trichloroethane in the CCV analyzed 12/19/07 12:10; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b". Many analytes were detected between the MDL and the RL in the method blank for batch 133012; these analytes were not detected in the sample at or above the RL. 1065SD100[5.5] (lab # 200073-001) was diluted due to high levels of hydrocarbons. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
Reporting limits were raised for 1065SD100[5.5] (lab # 200073-001) because the extract was too dark and viscous to be brought down to the normal final volume for the analysis. Matrix spikes were not reported for 1065SD100[5.5] (lab # 200073-001) because the parent sample required a dilution that would have diluted out the spikes. 1065SD100[5.5] (lab # 200073-001) was diluted due to high non-target analytes. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**200073**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**12/19/07**
Samples Received:	**12/19/07**

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1065SD100[5.5] (lab # 200073-001); the BS/BSD were within limits, the associated RPDs were within limits, and the post digest spike was within limits. High recovery was observed for vanadium in the MS of 1065SD100[5.5] (lab # 200073-001); the BS/BSD were within limits, and the post digest spike was within limits. High RPD was also observed for vanadium in the MS/MSD of 1065SD100[5.5] (lab # 200073-001); the RPD was acceptable in the BS/BSD. Responses exceeding the instrument's linear range were observed for lead and zinc in the MS/MSD of 1065SD100[5.5] (lab # 200073-001). High % differences were observed for a number of analytes in the serial dilutions of 1065SD100[5.5] (lab # 200073-001). A number of analytes were detected between the MDL and the RL in the method blank for batch 133134; these analytes were either not detected in the sample at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD 200073 3829

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 Ex3
JOB NO.: 4084075115 02.4
SAMPLERS (SIGNATURE): Scott Bert
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 12/19/07

TIME	GRAB	COMP.	MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) including BTEX & Hexane	TPHg	TPHd+TPHmo-W-silica gel	PAHs (8270-SIM)	Title 22 Metals	FOR LAB USE ONLY
845	X		SO	1065SD100[5.5]	135 35W 5.5'	+ MS/MSD	14	X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
Scott Bert	12/19/07 1200	[illegible]	12/19 1230			12/19 1330

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Standard TAT
Run MS/MSD

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

F1008 (05/00)

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd

COOLER RECEIPT CHECKLIST

Login#: 200073 Date Received: 12/19/07 Number of Coolers: 1
Client: Mactec Project: Building 1065 EX 3

A. Preliminary Examination Phase
Date Opened: 12/19/07 By (print): Esther Huang (sign) Esther Huang

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: zip lock bag
9. If required, was sufficient ice used? Samples should be <=6 degrees C. ..... (YES) NO
Type of ice: wet Temperature: no temp blank
10. Were Encore sampling devices present in the cooler? ..... (YES) NO
If YES, enter time they were transferred to the freezer 1530

B. Login Phase
Date Logged In: 12/18 By (print): KWellbrock (sign) KWellbrock

1. Did all bottles arrive unbroken? ..... (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
3. Did bottle labels agree with custody papers? ..... (YES) NO
4. Were appropriate containers used for the tests indicated? ..... (YES) NO
5. Were correct preservatives added to samples? ..... N/A YES NO
6. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... N/A YES NO
8. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, give details below.
Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

_____

_____

_____

_____

_____

TPH-PURGEABLE HYDROCARBONS IN SOIL

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065SD100[5.5]	Sampled:	12/19/07
Matrix:	Soil	Received:	12/19/07
Units:	mg/Kg	Analyzed:	12/19/07
Batch#:	133037		

Type:	SAMPLE	Moisture:	35%
Lab ID:	200073-001	Diln Fac:	25.00
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	850 Y	38	0.94

Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	65-135
Bromofluorobenzene (FID)	267 *	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC421089	Diln Fac:	1.000

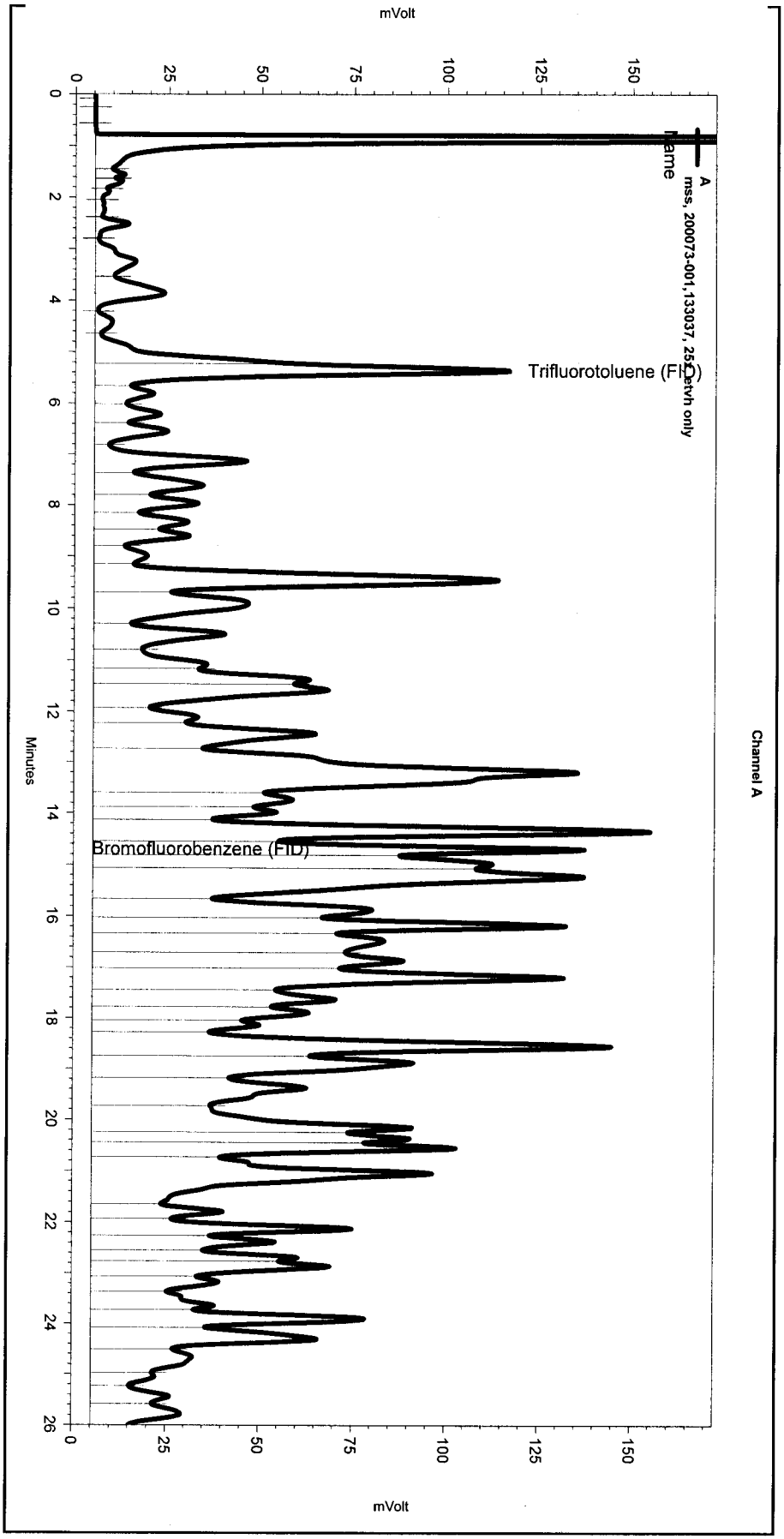
Analyte	Result	RL	MDL
Gasoline C7-C12	0.017 J	0.20	0.0049

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	91	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\353.seq**
Sample Name: **mss, 200073-001,133037, 25x, etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\353_006**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe347.met

Software Version 3.1.7
Run Date: 12/19/2007 5:14:50 PM
Analysis Date: 12/20/2007 8:34:22 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

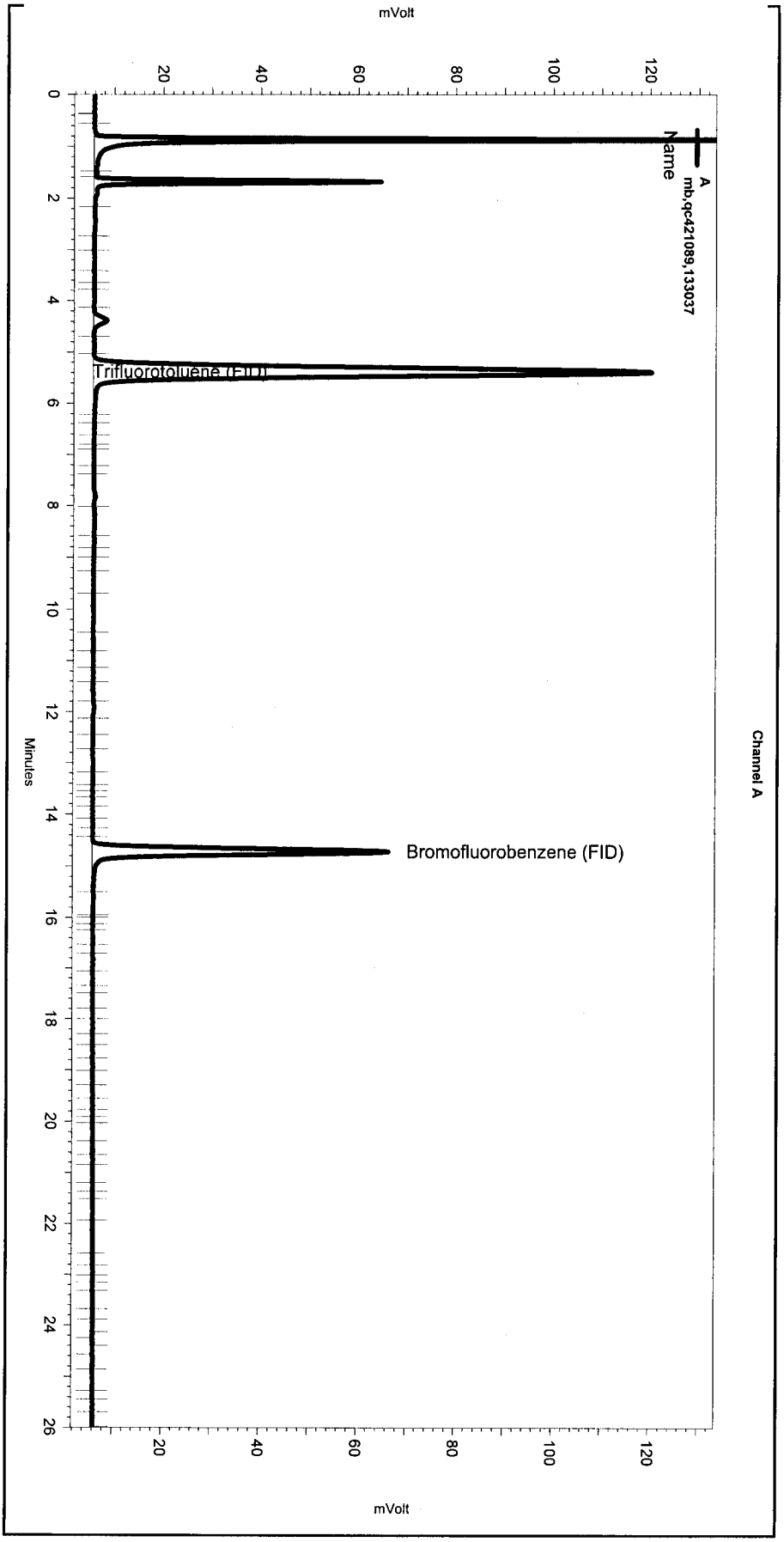
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\353_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	5.234	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\353.seq**
Sample Name: **mb,qc421089,133037**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\353_005**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe347.met

Software Version 3.1.7
Run Date: 12/19/2007 11:13:53 AM
Analysis Date: 12/20/2007 7:36:05 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

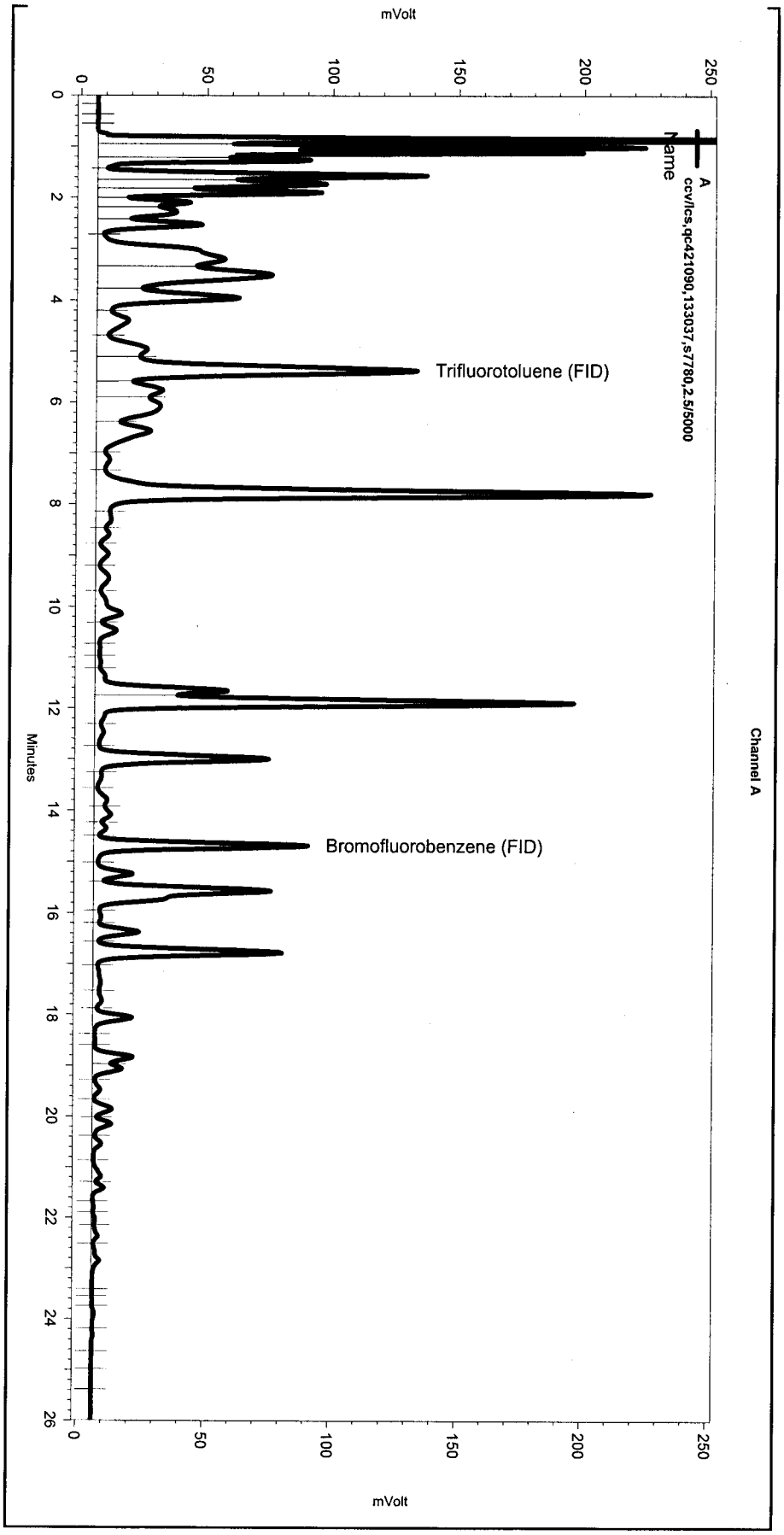
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\353_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\353.seq**
Sample Name: **ccv/lcs,qc421090,133037,s7780,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\353_004**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe347.met

Software Version 3.1.7
Run Date: 12/19/2007 10:04:53 AM
Analysis Date: 12/20/2007 7:36:00 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\353_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

0011

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC421090	Diln Fac:	1.000
Matrix:	Soil	Batch#:	133037
Units:	mg/Kg	Analyzed:	12/19/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.699	114	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	127	65-135
Bromofluorobenzene (FID)	129	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065SD100[5.5]	Diln Fac:	50.00
MSS Lab ID:	200073-001	Batch#:	133037
Matrix:	Soil	Sampled:	12/19/07
Units:	mg/Kg	Received:	12/19/07
Basis:	dry	Analyzed:	12/19/07

Type: MS
Lab ID: QC421091

Moisture: 35%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	850.7	769.2	1,757	118 P	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	65-135
Bromofluorobenzene (FID)	216 *	65-135

Type: MSD
Lab ID: QC421092

Moisture: 35%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	769.2	1,852	130 * P	75-125	5	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	65-135
Bromofluorobenzene (FID)	233 *	65-135

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCVOA Soil: EPA 8015B

Inst : GC05
Calnum : 317259885003
Units : ng

Name : GC05 TVH 180
Date : 02-JUL-2007 17:37
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	180_031	317259885031	TVH 1	02-JUL-2007 17:37	S5937 (1000X), S6435 (5000X)
L2	180_032	317259885032	TVH 2	02-JUL-2007 18:13	S5936 (1000X), S6435 (5000X)
L3	180_033	317259885033	TVH 3	02-JUL-2007 18:50	S5935 (1000X), S6435 (5000X)
L4	180_034	317259885034	TVH 4	02-JUL-2007 19:26	S5934 (2000X), S6435 (5000X)
L5	180_035	317259885035	TVH 5	02-JUL-2007 20:03	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2535.6	2230.6	2005.8	2040.2	2161.4	AVRG		4.56E-4		2194.7	10	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	16	2500	2	10000	-9	25000	-7	50000	-2

Analyst: JCP Date: 07/03/07 Reviewer: CW Date: 07/06/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200073 GCVOA Soil
EPA 8015B

Inst : GC05
Calnum : 317259885003

Name : GC05 TVH 180
Cal Date : 02-JUL-2007

ICV 317259885037 (180_037 02-JUL-2007) stds: S6393 (1000X), S6435 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	2194.7	2157.9	10000	9832	ng	-2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 317500761001
Units : ng

Name : GC05 MBTXE/SURR 347
Date : 13-DEC-2007 19:14
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	347_003	317500761003	BTXE_1	13-DEC-2007 19:14	S7770 (1000X), S7356 (5000X)
L2	347_004	317500761004	MBTXE_2	13-DEC-2007 19:51	S7769 (1250X), S7356 (5000X)
L3	347_005	317500761005	MBTXE_3	13-DEC-2007 20:27	S7769 (500X), S7356 (5000X)
L4	347_006	317500761006	MBTXE_4	13-DEC-2007 21:04	S7769 (125X), S7356 (5000X)
L5	347_007	317500761007	MBTXE_5	13-DEC-2007 21:41	S7768 (1000X), S7356 (5000X)
L6	347_008	317500761008	MBTXE_6	13-DEC-2007 22:17	S7768 (500X), S7356 (5000X)
L7	347_009	317500761009	MBTXE_7	13-DEC-2007 22:54	S7768 (250X), S7356 (5000X)
L8	347_010	317500761010	MTBE_7	13-DEC-2007 23:30	S7767 (500X), S7356 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3200.8	3062.8	2883.1	2906.2	2878.3	2892.6	2859.2	2658.8	AVRG		3.43E-4		2917.7	5	0.995	20	
Bromofluorobenzene (FID)	A	1244.0	1230.6	1146.4	1234.9	1297.2	1404.0	1447.0	1004.5	AVRG		7.99E-4		1251.1	11	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	10	450.0	5	450.0	-1	450.0	0	450.0	-1	450.0	-1	450.0	-2	450.0	-9
Bromofluorobenzene (FID)	A	450.0	-1	450.0	-2	450.0	-8	450.0	-1	450.0	4	450.0	12	450.0	16	450.0	-20

PDM 12/14/07 [MTBE B]: Fails low; will only report from Channel C and confirm on Channel B

Analyst: PDM Date: 12/14/07 Reviewer: LH Date: 12/14/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

317500761001

CURTIS & TOMPKINS SPIKE USER REPORT FOR 200073 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC421090 IDF : 1.0
Seqnum : 317508814004.2 File : 353_004 Time : 19-DEC-2007 10:04
Standards: S7780 (2000X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	317259885003	02-JUL-2007	2194.7	2501.6	5000	5699	ng	14	15	u
Trifluorotoluene (FID)	A	317500761001	13-DEC-2007	2917.7	3703.8	450.0	571.2	ng	**27**	15	c+ u
Bromofluorobenzene (FID)	A	317500761001	13-DEC-2007	1251.1	1612.6	450.0	580.0	ng	**29**	15	c+ u

PDM 12/20/07 [Trifluorotoluene (FID) A]: Passes control limits. [general version]

PDM 12/20/07 [Bromofluorobenzene (FID) A]: Passes control limits. [general version]

Analyst: PDM Date: 12/20/07 Reviewer: EAH Date: 12/20/07

+=high bias c=CCV u=use

317508814004.2

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
Seqnum : 317508814015 File : 353_015 Time : 19-DEC-2007 23:02
Standards: S7780 (666.7X), S7356 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	317259885003	02-JUL-2007	2194.7	2338.9	15000	15990	ng	7	15	
Trifluorotoluene (FID)	A	317500761001	13-DEC-2007	2917.7	4456.4	450.0	687.3	ng	**53**	15	c+
Bromofluorobenzene (FID)	A	317500761001	13-DEC-2007	1251.1	1888.5	450.0	679.3	ng	**51**	15	c+

PDM 12/20/07 : PID surrogates are not applicable.

PDM 12/20/07 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

PDM 12/20/07 [Bromofluorobenzene (FID) A]: Fails high due to coelution with standard.

Analyst: PDM Date: 12/20/07 Reviewer: LH Date: 12/20/07

+=high bias c=CCV

317508814015

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 317259885

Instrument : GC05
Method : EPA 8015B, EPA 8021B
Begun : 06/29/07 11:25
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	180_001	X	CMARK			06/29/07 11:25	1.0	1 2
002	180_002	X	CCV			06/29/07 12:01	1.0	3 2
003	180_003	X	CCV			06/29/07 12:38	1.0	4 2
004	180_004	X	IB			06/29/07 15:05	1.0	2
005	180_005	X	IB			06/29/07 15:41	1.0	2
006	180_006	X	CMARK			06/29/07 16:16	1.0	1 2
007	180_007	X	CCV			06/29/07 16:52	1.0	3 2
008	180_008	X	IB			06/29/07 17:27	1.0	2
009	180_009	IB	CALIB			06/29/07 18:02	1.0	2
010	180_010	ICAL	BTXE_1			06/29/07 18:38	1.0	5 2
011	180_011	ICAL	BTXE_2			06/29/07 19:13	1.0	6 2
012	180_012	ICAL	BTXE_3			06/29/07 19:49	1.0	6 2
013	180_013	ICAL	BTXE_4			06/29/07 20:24	1.0	6 2
014	180_014	ICAL	BTXE_5			06/29/07 21:00	1.0	7 2
015	180_015	ICAL	BTXE_6			06/29/07 21:35	1.0	7 2
016	180_016	ICAL	BTXE_7			06/29/07 22:11	1.0	7 2
017	180_017	ICAL	MTBE_7			06/29/07 22:46	1.0	8 2
018	180_018	X	IB			06/29/07 23:22	1.0	2
019	180_019	X	IB			07/02/07 08:54	1.0	2
020	180_020	X	ICV			07/02/07 09:32	1.0	9 2
021	180_021	ICV	MBTXE			07/02/07 10:25	1.0	9 2
022	180_022	X	IB			07/02/07 11:29	1.0	
023	180_023	IB	CALIB			07/02/07 12:06	1.0	
024	180_024	ICAL	TFT/BFB_1			07/02/07 12:42	1.0	10
025	180_025	ICAL	TFT/BFB_2			07/02/07 13:19	1.0	11
026	180_026	ICAL	TFT/BFB_3			07/02/07 13:55	1.0	12
027	180_027	ICAL	TFT/BFB_4			07/02/07 14:32	1.0	13
028	180_028	ICAL	TFT/BFB_5			07/02/07 15:08	1.0	14
029	180_029	X	IB			07/02/07 16:23	1.0	2
030	180_030	IB	CALIB			07/02/07 17:00	1.0	2
031	180_031	ICAL	TVH 1			07/02/07 17:37	1.0	15 2
032	180_032	ICAL	TVH 2			07/02/07 18:13	1.0	16 2
033	180_033	ICAL	TVH 3			07/02/07 18:50	1.0	17 2
034	180_034	ICAL	TVH 4			07/02/07 19:26	1.0	18 2
035	180_035	ICAL	TVH 5			07/02/07 20:03	1.0	18 2
036	180_036	X	IB			07/02/07 20:39	1.0	2
037	180_037	ICV	TVH			07/02/07 21:16	1.0	3 2
038	180_038	X	ICV			07/02/07 21:52	1.0	3 2
039	180_039	X	IB			07/02/07 22:29	1.0	2
040	180_040	CMARKER				07/02/07 23:05	1.0	1 2
041	180_041	IB	TEST			07/02/07 23:42	1.0	2

Analyst: JCP Date: 07/03/07 Reviewer: CW Date: 07/06/07

Standards used: 1=S6383 2=S6435 3=S6393 4=S5943 5=S6305 6=S6304 7=S6303 8=S6302 9=S6204 10=S6509 11=S6510 12=S6511 13=S6512 14=S6513 15=S5937 16=S5936 17=S5935 18=S5934

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 317500761

Instrument : GC05
Method : EPA 8015B, EPA 8021B

Begun : 12/13/07 18:01
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	347_001	X	IB			12/13/07 18:01	1.0	1
002	347_002	X	IB			12/13/07 18:38	1.0	1
003	347_003	ICAL	BTXE_1			12/13/07 19:14	1.0	2 1
004	347_004	ICAL	MBTXE_2			12/13/07 19:51	1.0	3 1
005	347_005	ICAL	MBTXE_3			12/13/07 20:27	1.0	3 1
006	347_006	ICAL	MBTXE_4			12/13/07 21:04	1.0	3 1
007	347_007	ICAL	MBTXE_5			12/13/07 21:41	1.0	4 1
008	347_008	ICAL	MBTXE_6			12/13/07 22:17	1.0	4 1
009	347_009	ICAL	MBTXE_7			12/13/07 22:54	1.0	4 1
010	347_010	ICAL	MTBE_7			12/13/07 23:30	1.0	5 1
011	347_011	X	IB			12/14/07 00:07	1.0	1
012	347_012	X	ICV			12/14/07 00:44	1.0	6 1
013	347_013	ICV	MBTXE			12/14/07 01:20	1.0	6 1
014	347_014	X	ICV			12/14/07 08:31	1.0	7 1

PDM: 12/14/07 EAH: 12/14/07 LH: 12/14/07

Standards used: 1=S7356 2=S7770 3=S7769 4=S7768 5=S7767 6=S7868 7=S7263

00028

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 317508814

Instrument : GC05
Method : EPA 8015B, EPA 8021B

Begun : 12/19/07 08:14
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	353_001	X	CMARK			12/19/07 08:14	1.0	1 2
002	353_002	X	CCV			12/19/07 08:51	1.0	3 2
003	353_003	X	CCV			12/19/07 09:28	1.0	3 2
004	353_004	CCV/LCS	QC421090	Soil	133037	12/19/07 10:04	1.0	4 2
005	353_005	BLANK	QC421089	Soil	133037	12/19/07 11:13	1.0	2
006	353_006	MSS	200073-001	Soil	133037	12/19/07 17:14	25.0	2
007	353_007	MS	QC421091	Soil	133037	12/19/07 18:09	50.0	4 2
008	353_008	MSD	QC421092	Soil	133037	12/19/07 18:46	50.0	4 2
009	353_009	X	IB			12/19/07 19:23	1.0	2
010	353_010	SAMPLE	199986-003	Soil	133037	12/19/07 19:59	1.0	2
011	353_011	SAMPLE	199986-005	Soil	133037	12/19/07 20:36	1.0	2
012	353_012	SAMPLE	199986-006	Soil	133037	12/19/07 21:13	1.0	2
013	353_013	SAMPLE	199986-008	Soil	133037	12/19/07 21:49	1.0	2
014	353_014	SAMPLE	199986-009	Soil	133037	12/19/07 22:26	1.0	2
015	353_015	CCV	TVH			12/19/07 23:02	1.0	4 2
016	353_016	X	CCV			12/19/07 23:39	1.0	4 2
017	353_017	X	CMARK			12/20/07 00:16	1.0	1 2
018	353_018	X	MEOHMB			12/20/07 00:52	5.0	2
019	353_019	SAMPLE	199986-010	Soil	133037	12/20/07 01:29	1.0	2
020	353_020	SAMPLE	199986-012	Soil	133037	12/20/07 02:05	1.0	2
021	353_021	CCV	TVH			12/20/07 02:42	1.0	4 2
022	353_022	X	CCV			12/20/07 03:18	1.0	4 2
023	353_023	X	CMARK			12/20/07 03:55	1.0	1 2

Analyst: PDM Date: 12/20/07 Reviewer: _____ Date: _____

Standards used: 1=S7569 2=S7356 3=S7787 4=S7780

34 Project TVH/BTXE SOIL WEIGHT LOGBOOK BK2583

Continued from Page ——

SAMPLE ID/CORE ID/JAR	WEIGHT (g)	$NaHSO_4$ (%)	COMP (%)	COMMENTS
199986-001 B	5.04	NO	NO	MSM 12/18/07
-002	4.26			
-003	4.32			
-004 A	5.10			
-005	4.04			
-006	4.96			
-007	5.54			
-008	5.10			
-009	4.98			
-010	4.81			
-011	4.93			
-012	4.96			
199996 -003 C	4.39	NO	NO	PDM 12/19/07 Batch 133037
-005	4.32			
-006	5.12			
-008	5.33			
-009	5.45			
-010	4.79			
-012	4.02			

Continued on Page

Read and Understood By

Signed Date Signed Date

PROJECT MeOH EXTRACT LOG

Notebook No. BK 2246

Continued From Page

ANALYST/DATE	SAMPLE ID/CORE ID/JAR	WEIGHT (g)	MeOH (mL)	COMMENTS
MJM 11/16/07	MeOH MB	—	5.0	BJCRO13
↓	199335-002 A	4.99	↓	↓
PdM 11/27/07	MeOH MB	—	5.0	BJ CRO13
↓	199443 - 001 B	4.67	↓	↓
MJM 11/28/07	MeOH MB	—	5.0	BJ CRO13
↓	199490-004 A	5.00	↓	↓
MJM 11/29/07	MeOH MB	—	5.0	BJCRO13
↓	199539-001 A	5.01	↓	↓
PdM 11/30/07	MeOH MB	~~5.0 PdM 11/30/07~~	5.0	BJCRO13
↓	199531 - 001 A	5.07	↓	↓
MJM 12/6/07	MeOH MB	—	5.0	BJCRO13
↓	199697-012 A	4.96	↓	↓ alias 199875 -001
↓	-013	↓	↓	-002
↓	-014	4.99	↓	-003
↓	-015	↓	↓	-004
MJM 12/10/07	MeOH MB	—	5.0	MJM BJCRO13
↓	199697-005 comp	4.99	↓	comp 1A-4A @ 5.0g
↓	-011	4.97	↓	↓ 6A-10A ↓
MJM 12/10/07	199825-001 A	4.97	5.0	↓
PdM 12/11/07	MeOH MB	—	5.0	BJCRO13
↓	199857 - 002 A	5.04	↓	↓
↓	- 003 ↓	4.99	↓	↓
MJM 12/12/07	MeOH MB	—	5.0	BJCRO13
↓	199875-001 A	5.02	↓	Alias of 199697-012A ↓ data
↓	-002	4.99	↓	-013 ↓ not used
↓	-003	4.98	↓	-014 PdM
↓	-004 ↓	5.03	↓	-015 ↓ 12/12/07
↓	199863-008 A	5.03	↓	↓
↓	-012	5.03	↓	↓
↓	-026 ↓	4.98	↓	↓
MJM 12/19/07	MeOH MB	—	5.0	BJCRO13
↓	200073-001 D	2.83	2.8	↓

Continued on Page

Read and Understood By

PdM — Signed

11/30/07 — Date

Signed

Date

TPH-EXTRACTABLES DATA

SOIL

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065SD100[5.5]	Sampled:	12/19/07
Matrix:	Soil	Received:	12/19/07
Units:	mg/Kg	Prepared:	12/20/07
Batch#:	133042	Analyzed:	12/21/07

Type:	SAMPLE	Moisture:	35%
Lab ID:	200073-001	Diln Fac:	100.0
Basis:	dry	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	7,700	150	20
Fuel Oil C24-C36	14,000	770	190

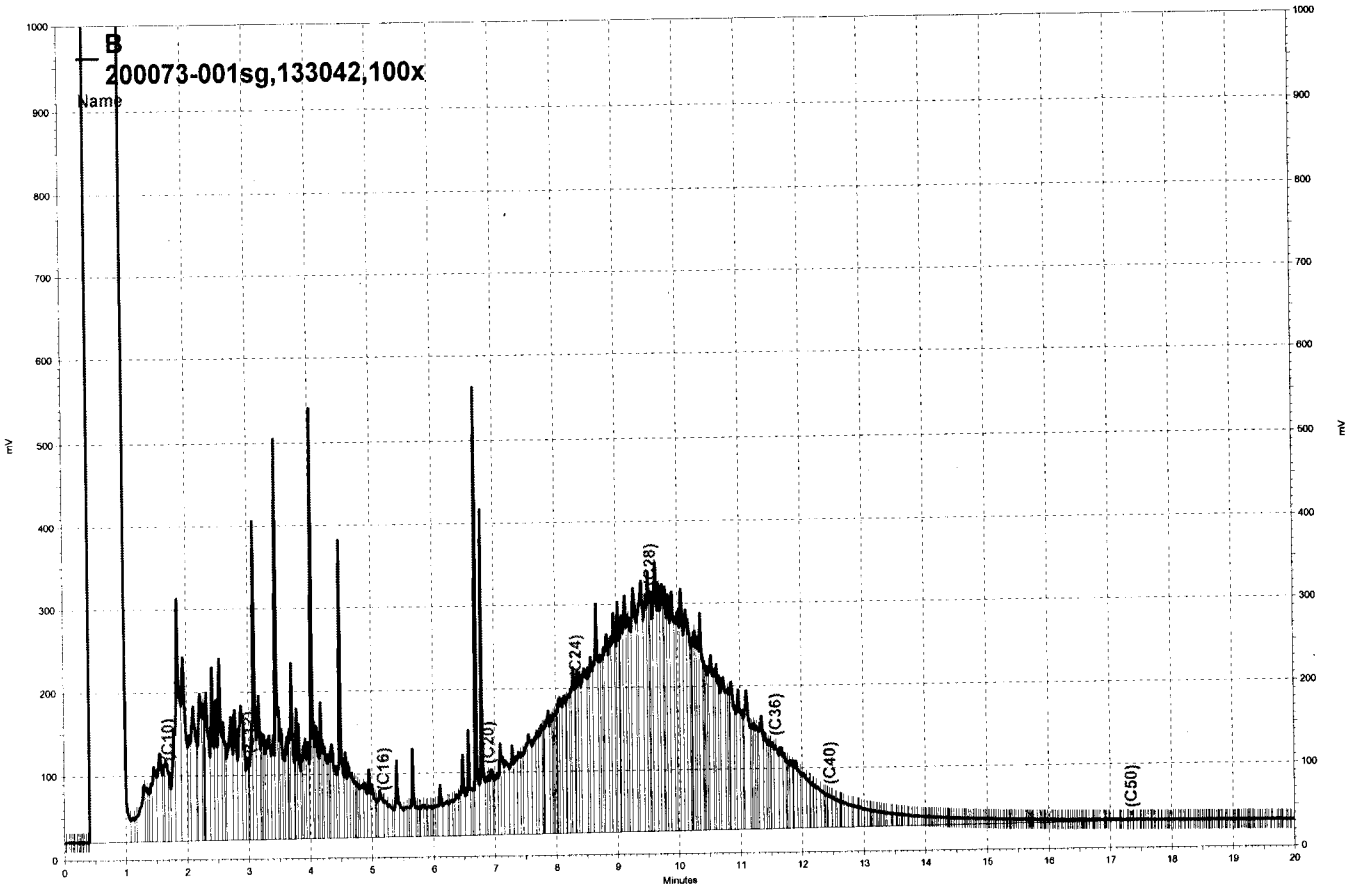
Surrogate	%REC	Limits
Hexacosane	DO	65-135

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC421105	Cleanup Method:	EPA 3630C
Basis:	as received		

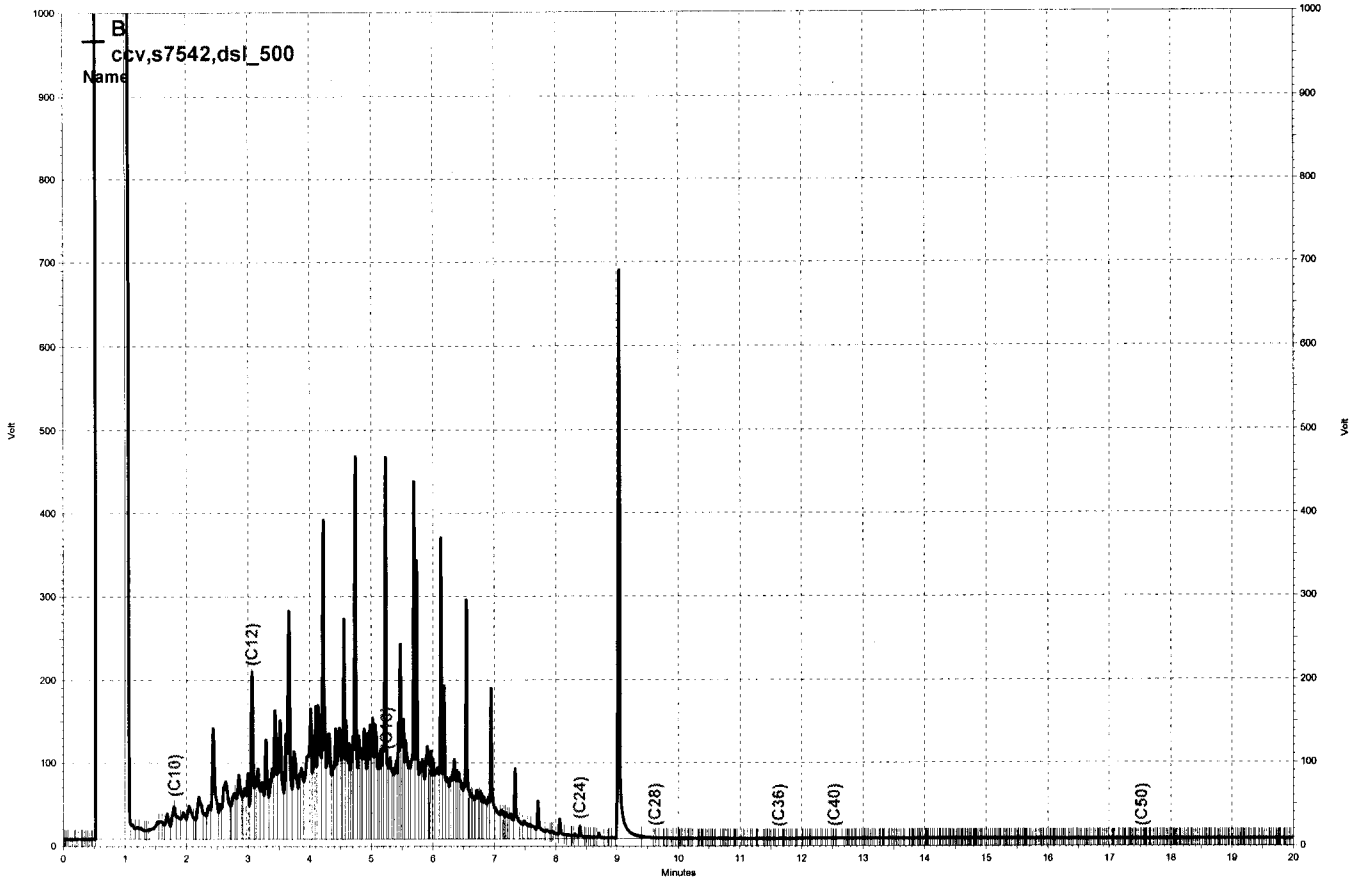
Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.17
Fuel Oil C24-C36	ND	5.0	1.8

Surrogate	%REC	Limits
Hexacosane	114	65-135

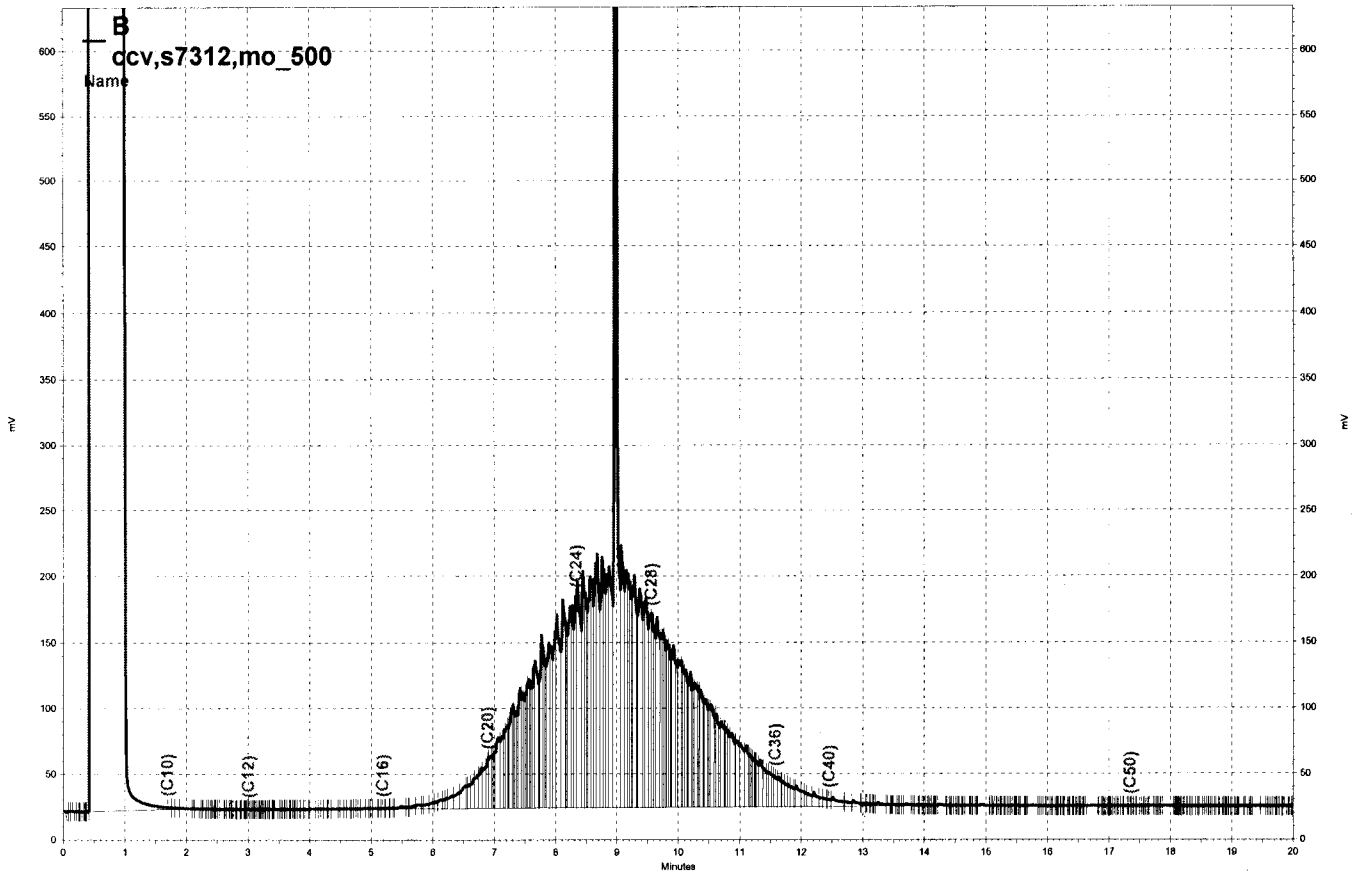
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\355b015, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\354b018, B



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\355b005, B

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC421106	Batch#:	133042
Matrix:	Soil	Prepared:	12/20/07
Units:	mg/Kg	Analyzed:	12/20/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.91	46.18	93	65-135

Surrogate	%REC	Limits
Hexacosane	109	65-135

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227491521001
Units : mg/L

Name : DSL
Date : 07-DEC-2007 21:55
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	341_010	227491521010	DSL_10	07-DEC-2007 21:55	S6612
L2	341_011	227491521011	DSL_100	07-DEC-2007 22:23	S6613
L3	341_012	227491521012	DSL_500	07-DEC-2007 22:51	S6614
L4	341_013	227491521013	DSL_5000	07-DEC-2007 23:18	S6611
L5	341_014	227491521014	DSL_7500	07-DEC-2007 23:46	S6616

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	44290	63574	65285	58274	67114	AVRG		1.67E-5		59707	15	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C12-C24	B	10.00	-26	100.0	6	500.0	9	5000	-2	7500	12

Analyst: ATL Date: 12/10/07 Reviewer: LH Date: 12/10/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200073 GCSV Soil
EPA 8015B

Inst : GC14B
Name : DSL
Calnum : 227491521001
Cal Date : 07-DEC-2007

ICV 227491521016 (341_016 08-DEC-2007) stds: S6617 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	59707	60867	500.0	509.7	mg/L	2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227497284001
Units : mg/L

Name : Motor Oil
Date : 11-DEC-2007 17:50
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_012	227497284012	MO_50	11-DEC-2007 17:50	S6848
L2	345_013	227497284013	MO_250	11-DEC-2007 18:18	S6849
L3	345_014	227497284014	MO_500	11-DEC-2007 18:46	S6850
L4	345_015	227497284015	MO_1000	11-DEC-2007 19:14	S6851
L5	345_016	227497284016	MO_5000	11-DEC-2007 19:42	S6846
L6	345_017	227497284017	MO_7500	11-DEC-2007 20:10	S6847

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	41267	49498	44755	43975	43681	43827	AVRG		2.25E-5		44500	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.00	-7	250.0	11	500.0	1	1000	-1	5000	-2	7500	-2

Analyst: ATL Date: 12/12/07 Reviewer: LH Date: 12/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227497284002
Units : mg/L

Name : hexacosane
Date : 11-DEC-2007 21:05
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_019	227497284019	HEX_5	11-DEC-2007 21:05	S7036
L2	345_020	227497284020	HEX_10	11-DEC-2007 21:33	S7037
L3	345_021	227497284021	HEX_25	11-DEC-2007 22:01	S7038
L4	345_022	227497284022	HEX_50	11-DEC-2007 22:29	S7039
L5	345_023	227497284023	HEX_100	11-DEC-2007 22:56	S7040
L6	345_024	227497284024	HEX_200	11-DEC-2007 23:24	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	67958	68803	68027	70299	68208	66207	AVRG		1.47E-5		68250	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	0	10.00	1	25.00	0	50.00	3	100.0	0	200.0	-3

Analyst: ATL Date: 12/12/07 Reviewer: LH Date: 12/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

227497284002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763001
Units : mg/L

Name : DSL
Date : 18-OCT-2007 02:40
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b017	167416763017	DSL_10	18-OCT-2007 02:40	S6612
L2	289b018	167416763018	DSL_100	18-OCT-2007 03:07	S6613
L3	289b019	167416763019	DSL_500	18-OCT-2007 03:35	S6614
L4	289b020	167416763020	DSL_1000	18-OCT-2007 04:03	S6615
L5	289b021	167416763021	DSL_5000	18-OCT-2007 04:31	S6611
L6	289b022	167416763022	DSL_7500	18-OCT-2007 04:58	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	23294	26355	25904	26080	28152	26566	AVRG		3.84E-5		26059	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-11	100.0	1	500.0	-1	1000	0	5000	8	7500	2

Analyst: ATL Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200073 GCSV Soil
EPA 8015B

Inst : GC15B
Name : DSL
Calnum : 167416763001
Cal Date : 18-OCT-2007

ICV 167416763024 (289b024 18-OCT-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	26059	27062	500.0	519.3	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167479943001
Units : mg/L

Name : Hexacosane
Date : 30-NOV-2007 05:07
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	333b012	167479943012	HEX_5	30-NOV-2007 05:07	S7036
L2	333b013	167479943013	HEX_10	30-NOV-2007 05:35	S7037
L3	333b014	167479943014	HEX_25	30-NOV-2007 06:03	S7038
L4	333b015	167479943015	HEX_50	30-NOV-2007 06:30	S7039
L5	333b016	167479943016	HEX_100	30-NOV-2007 06:58	S7040
L6	333b017	167479943017	HEX_200	30-NOV-2007 07:26	S7041

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	25619	27078	26344	27012	26744	25833	AVRG		3.78E-5		26439	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-3	10.00	2	25.00	0	50.00	2	100.0	1	200.0	-2

Analyst: ATL Date: 11/30/07 Reviewer: LH Date: 11/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 867497798001
Units : mg/L

Name : dsl 26a
Date : 11-DEC-2007 18:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345a011	867497798011	DSL_10	11-DEC-2007 18:30	S6612
L2	345a012	867497798012	DSL_100	11-DEC-2007 18:58	S6613
L3	345a013	867497798013	DSL_500	11-DEC-2007 19:26	S6614
L4	345a014	867497798014	DSL_1000	11-DEC-2007 19:55	S6615
L5	345a015	867497798015	DSL_5000	11-DEC-2007 20:23	S6611
L6	345a016	867497798016	DSL_7500	11-DEC-2007 20:51	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	28340	28690	29040	26736	23175	25343	AVRG		3.72E-5		26887	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	5	100.0	7	500.0	8	1000	-1	5000	-14	7500	-6

Analyst: JDG Date: 12/12/07 Reviewer: LH Date: 12/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

867497798001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200073 GCSV Soil
EPA 8015B

Inst : GC26A
Calnum : 867497798001

Name : dsl 26a
Cal Date : 11-DEC-2007

ICV 867497798018 (345a018 11-DEC-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	26887	27514	500.0	511.7	mg/L	2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 867497798002
Units : mg/L

Name : motor oil 26A
Date : 11-DEC-2007 23:12
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345a021	867497798021	MO_50	11-DEC-2007 23:12	S6848
L2	345a022	867497798022	MO_250	11-DEC-2007 23:40	S6849
L3	345a023	867497798023	MO_500	12-DEC-2007 00:08	S6850
L4	345a024	867497798024	MO_1000	12-DEC-2007 00:36	S6851
L5	345a025	867497798025	MO_5000	12-DEC-2007 01:04	S6846
L6	345a026	867497798026	MO_7500	12-DEC-2007 01:32	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	14896	18036	15674	15341	16146	15398	AVRG		6.28E-5		15915	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-6	250.0	13	500.0	-2	1000	-4	5000	1	7500	-3

Analyst: JDG Date: 12/12/07 Reviewer: LH Date: 12/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 867497798004
Units : mg/L

Name : Hexacosane 26A
Date : 12-DEC-2007 02:28
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345a028	867497798028	HEX_5	12-DEC-2007 02:28	S7036
L2	345a029	867497798029	HEX_10	12-DEC-2007 02:56	S7037
L3	345a030	867497798030	HEX_25	12-DEC-2007 03:25	S7038
L4	345a031	867497798031	HEX_50	12-DEC-2007 03:53	S7039
L5	345a032	867497798032	HEX_100	12-DEC-2007 04:21	S7040
L6	345a033	867497798033	HEX_200	12-DEC-2007 04:49	S7041

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	26935	25689	25708	26187	26395	24099	AVRG		3.87E-5		25836	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	4	10.00	-1	25.00	0	50.00	1	100.0	2	200.0	-7

Analyst: ATL Date: 12/12/07 Reviewer: LH Date: 12/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

867497798004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
Seqnum : 227511655004 File : 355_004 Time : 21-DEC-2007 08:59
Standards: S7541

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227491521001	07-DEC-2007	59707	60840	500.0	509.5	mg/L	2	15	
Hexacosane	B	227497284002	11-DEC-2007	68250	70943	50.00	51.97	mg/L	4	15	

Analyst: JDG Date: 12/27/07 Reviewer: MMP Date: 12/27/07

227511655004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227511655005 File : 355_005 Time : 21-DEC-2007 09:27
Standards: S7312

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227497284001	11-DEC-2007	44500	42265	500.0	474.9	mg/L	-5	15	
Hexacosane	B	227497284002	11-DEC-2007	68250	69830	50.00	51.16	mg/L	2	15	

Analyst: JDG Date: 12/27/07 Reviewer: MMP Date: 12/27/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 227511655022 File : 355_022 Time : 21-DEC-2007 18:04
Standards: S7542

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227491521001	07-DEC-2007	59707	59596	1000	998.1	mg/L	0	15	
Hexacosane	B	227497284002	11-DEC-2007	68250	73048	50.00	53.51	mg/L	7	15	

Analyst: ATL Date: 12/22/07 Reviewer: JDG Date: 12/27/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 227511655023 File : 355_023 Time : 21-DEC-2007 18:32
Standards: S7312

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227497284001	11-DEC-2007	44500	41992	500.0	471.8	mg/L	-6	15	
Hexacosane	B	227497284002	11-DEC-2007	68250	69332	50.00	50.79	mg/L	2	15	

Analyst: ATL Date: 12/22/07 Reviewer: JDG Date: 12/27/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 167510190018 File : 354b018 Time : 20-DEC-2007 15:49
Standards: S7542

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	25569	1000	981.2	mg/L	-2	15	
Hexacosane	167479943001	30-NOV-2007	26439	27049	50.00	51.15	mg/L	2	15	

Analyst: ATL Date: 12/21/07 Reviewer: LH Date: 12/21/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_500 IDF : 1.0
Seqnum : 167510190034 File : 354b034 Time : 20-DEC-2007 23:18
Standards: S7541

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	26582	500.0	510.0	mg/L	2	15	
Hexacosane	167479943001	30-NOV-2007	26439	28160	50.00	53.25	mg/L	7	15	

Analyst: ATL Date: 12/21/07 Reviewer: LH Date: 12/21/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_250 IDF : 1.0
Seqnum : 867511675004 File : 355a004 Time : 21-DEC-2007 09:19
Standards: S7540

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	867497798001	11-DEC-2007	26887	24868	250.0	231.2	mg/L	-8	15	
Hexacosane	867497798004	12-DEC-2007	25836	25785	50.00	49.90	mg/L	0	15	

Analyst: JDG Date: 12/28/07 Reviewer: LH Date: 12/28/07

867511675004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 867511675005 File : 355a005 Time : 21-DEC-2007 09:47
Standards: S7312

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	867497798002	11-DEC-2007	15915	14482	500.0	455.0	mg/L	-9	15	
Hexacosane	867497798004	12-DEC-2007	25836	25962	50.00	50.25	mg/L	0	15	

Analyst: JDG Date: 12/28/07 Reviewer: LH Date: 12/28/07

867511675005

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 867511675017 File : 355a017 Time : 21-DEC-2007 15:30
Standards: S7542

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	867497798001	11-DEC-2007	26887	24141	1000	897.9	mg/L	-10	15	
Hexacosane	867497798004	12-DEC-2007	25836	25351	50.00	49.06	mg/L	-2	15	

Analyst: JDG Date: 12/28/07 Reviewer: LH Date: 12/28/07

867511675017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 867511675018 File : 355a018 Time : 21-DEC-2007 15:59
Standards: S7312

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	867497798002	11-DEC-2007	15915	14094	500.0	442.8	mg/L	-11	15	
Hexacosane	867497798004	12-DEC-2007	25836	25730	50.00	49.80	mg/L	0	15	

Analyst: JDG Date: 12/28/07 Reviewer: LH Date: 12/28/07

867511675018

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167416763

Instrument : GC15B
Method : EPA 8015B

Begun : 10/16/07 10:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	289b001	X	PRIMER			10/16/07 10:03	1.0	
002	289b002	X	IB			10/16/07 10:30	1.0	
003	289b003	X	CMARKER			10/16/07 10:58	1.0	1
004	289b004	CCV	DSL_250			10/16/07 11:26	1.0	2
005	289b005	CCV	MO_500			10/16/07 11:53	1.0	3
006	289b006	CCV	DSL_250			10/16/07 12:47	1.0	2
007	289b007	X	IB			10/17/07 14:25	1.0	
009	289b009	X	IB			10/17/07 16:54	1.0	
010	289b010	X	IB			10/17/07 17:22	1.0	
011	289b011	CMARKER	C10-C50			10/17/07 17:50	1.0	1
012	289b012	CCV	DSL_500			10/17/07 18:17	1.0	4
013	289b013	CCV	MO_500			10/17/07 18:45	1.0	3
014	289b014	CCV	OTP_50			10/17/07 19:12	1.0	5
015	289b015	X	IB			10/18/07 01:44	1.0	
016	289b016	IB	CALIB			10/18/07 02:12	1.0	
017	289b017	ICAL	DSL_10			10/18/07 02:40	1.0	6
018	289b018	ICAL	DSL_100			10/18/07 03:07	1.0	7
019	289b019	ICAL	DSL_500			10/18/07 03:35	1.0	8
020	289b020	ICAL	DSL_1000			10/18/07 04:03	1.0	9
021	289b021	ICAL	DSL_5000			10/18/07 04:31	1.0	10
022	289b022	ICAL	DSL_7500			10/18/07 04:58	1.0	11
023	289b023	IB	CALIB			10/18/07 05:26	1.0	
024	289b024	ICV	DSL_500			10/18/07 05:54	10.0	12
025	289b025	X	ICV			10/18/07 06:22	1.0	12
026	289b026	IB	CALIB			10/18/07 06:50	1.0	
027	289b027	ICAL	MO_50			10/18/07 07:18	1.0	13
028	289b028	ICAL	MO_250			10/18/07 07:46	1.0	14
029	289b029	ICAL	MO_500			10/18/07 08:14	1.0	15
030	289b030	ICAL	MO_1000			10/18/07 08:42	1.0	16
031	289b031	ICAL	MO_5000			10/18/07 09:10	1.0	17
032	289b032	ICAL	MO_7500			10/18/07 09:38	1.0	18
033	289b033	IB	CALIB			10/18/07 10:06	1.0	
034	289b034	IB	CALIB			10/18/07 10:34	1.0	
035	289b035	ICAL	HEX_5			10/18/07 11:02	1.0	19
036	289b036	ICAL	HEX_10			10/18/07 11:30	1.0	20
037	289b037	ICAL	HEX_25			10/18/07 11:57	1.0	21
038	289b038	ICAL	HEX_50			10/18/07 12:25	1.0	22
039	289b039	ICAL	HEX_100			10/18/07 12:53	1.0	23
040	289b040	ICAL	HEX_200			10/18/07 13:21	1.0	24
041	289b041	IB	CALIB			10/18/07 13:48	1.0	
042	289b042	ICAL	OTP_5			10/18/07 14:16	1.0	25
043	289b043	ICAL	OTP_10			10/18/07 14:44	1.0	26
044	289b044	ICAL	OTP_25			10/18/07 15:12	1.0	27
045	289b045	ICAL	OTP_50			10/18/07 15:39	1.0	28
046	289b046	ICAL	OTP_100			10/18/07 16:07	1.0	29
047	289b047	ICAL	OTP_200			10/18/07 16:34	1.0	30
048	289b048	IB	CALIB			10/18/07 17:02	1.0	

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Standards used: 1=S6952 2=S6807 3=S7310 4=S6808 5=S6922 6=S6612 7=S6613 8=S6614 9=S6615 10=S6611 11=S6616 12=S6617 13=S6848 14=S6849 15=S6850 16=S6851 17=S6846 18=S6847 19=S7036 20=S7037 21=S7038 22=S7039 23=S7040 24=S7041 25=S6397 26=S6398 27=S6399 28=S6400 29=S6401 30=S6402

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167479943

Instrument : GC15B
Method : EPA 8015B

Begun : 11/29/07 07:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	333b001	X	PRIMER				11/29/07 07:03	1.0		
002	333b002	X	IB				11/29/07 07:31	1.0		
003	333b003	X	CMARKER				11/29/07 07:58	1.0	1	
004	333b004	CCV	DSL_250				11/29/07 08:26	1.0	2	
005	333b005	CCV	MO_500				11/29/07 08:54	1.0	3	
006	333b006	X	IB				11/29/07 11:32	1.0		
007	333b007	X	CMARKER				11/29/07 12:00	1.0	1	
008	333b008	CCV	DSL_500				11/29/07 12:27	1.0	4	
009	333b009	CCV	MO_500				11/29/07 12:55	1.0	3	
010	333b010	X	IB				11/30/07 04:12	1.0		
011	333b011	IB	CALIB				11/30/07 04:39	1.0		
012	333b012	ICAL	HEX_5				11/30/07 05:07	1.0	5	
013	333b013	ICAL	HEX_10				11/30/07 05:35	1.0	6	
014	333b014	ICAL	HEX_25				11/30/07 06:03	1.0	7	
015	333b015	ICAL	HEX_50				11/30/07 06:30	1.0	8	
016	333b016	ICAL	HEX_100				11/30/07 06:58	1.0	9	
017	333b017	ICAL	HEX_200				11/30/07 07:26	1.0	10	
018	333b018	X	IB				11/30/07 07:54	1.0		
019	333b019	X	CMARKER				11/30/07 08:22	1.0	1	
020	333b020	CCV	DSL_500				11/30/07 08:50	1.0	4	
021	333b021	CCV	MO_500				11/30/07 09:18	1.0	3	
022	333b022	SAMPLE	199531-002	S	Soil	132225	11/30/07 09:58	1.0		
023	333b023	SAMPLE	199531-004	S	Soil	132225	11/30/07 10:26	1.0		1:BUNKC:12-40=6100
024	333b024	X	IB				11/30/07 10:54	1.0		
025	333b025	SAMPLE	199484-002	S	Soil	132190	11/30/07 11:21	1.0		
026	333b026	SAMPLE	199484-003	S	Soil	132190	11/30/07 11:49	1.0		
027	333b027	SAMPLE	199440-002	S	Soil	132140	11/30/07 12:27	10.0		
028	333b028	SAMPLE	199440-008	S	Soil	132140	11/30/07 12:59	10.0		
029	333b029	SAMPLE	199440-014	S	Soil	132140	11/30/07 13:30	10.0		
030	333b030	X	IB				11/30/07 14:48	1.0		
031	333b031	MSS	199483-002	S	Soil	132190	11/30/07 15:28	1.0		
032	333b032	SAMPLE	199483-004	S	Soil	132190	11/30/07 15:56	1.0		
033	333b033	X	IB				11/30/07 16:24	1.0		
034	333b034	SAMPLE	199483-003	S	Soil	132190	11/30/07 16:52	1.0		
035	333b035	X	DSL_250				11/30/07 17:20	1.0	2	
036	333b036	X	MO_500				11/30/07 17:48	1.0	3	
037	333b037	CCV	DSL_250				11/30/07 18:24	1.0	2	
038	333b038	CCV	MO_500				11/30/07 18:52	1.0	3	

Standards used: 1=S6952 2=S7540 3=S7310 4=S7541 5=S7036 6=S7037 7=S7038 8=S7039 9=S7040 10=S7041

00052

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167510190

Instrument : GC15B
Method : EPA 8015B

Begun : 12/20/07 07:10
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	354b001	X	PRIMER				12/20/07 07:10	1.0		
002	354b002	X	IB				12/20/07 07:38	1.0		
003	354b003	X	CMARKER				12/20/07 08:06	1.0	1	
004	354b004	CCV	DSL_500				12/20/07 08:34	1.0	2	
005	354b005	CCV	MO_500				12/20/07 09:02	1.0	3	
006	354b006	CCV	HYFL_1250				12/20/07 09:30	1.0	4	
007	354b007	SAMPLE	199890-029	S	Water	132968	12/20/07 09:57	1.0		
008	354b008	SAMPLE	199890-030	S	Water	132968	12/20/07 10:25	1.0		
009	354b009	SAMPLE	199890-030		Water	132968	12/20/07 10:53	1.0		
010	354b010	SAMPLE	199863-029	S	Water	133008	12/20/07 12:06	1.0		
011	354b011	SAMPLE	199863-028	S	Water	133008	12/20/07 12:34	100.0		
012	354b012	X	IB				12/20/07 13:02	1.0		
013	354b013	BLANK	QC420948	S	Water	133008	12/20/07 13:30	1.0		
014	354b014	LCS	QC420949	S	Water	133008	12/20/07 13:58	1.0		
015	354b015	MS	QC420950	S	Water	133008	12/20/07 14:26	1.0		
016	354b016	MSD	QC420951	S	Water	133008	12/20/07 14:53	1.0		
017	354b017	SAMPLE	199947-001	S	Water	133008	12/20/07 15:21	1.0		
018	354b018	CCV	DSL_1000				12/20/07 15:49	1.0	5	
019	354b019	CCV	MO_500				12/20/07 16:17	1.0	3	
020	354b020	CCV	HYFL_1250				12/20/07 16:45	1.0	4	
021	354b021	BLANK	QC421105		Soil	133042	12/20/07 17:15	1.0		
022	354b022	LCS	QC421106	S	Soil	133042	12/20/07 17:43	1.0		
023	354b023	SAMPLE	200072-002	S	Soil	133042	12/20/07 18:11	1.0		14:BUNKC:12-40=160000
024	354b024	MS	QC421107	S	Soil	133042	12/20/07 18:39	1.0		5:BUNKC:12-40=16000
025	354b025	MSD	QC421108	S	Soil	133042	12/20/07 19:07	1.0		5:BUNKC:12-40=17000
026	354b026	SAMPLE	200088-001		Soil	133042	12/20/07 19:35	20.0		
027	354b027	X	IB				12/20/07 20:03	1.0		
028	354b028	SAMPLE	200014-005	S	Soil	133042	12/20/07 20:31	1.0		
029	354b029	SAMPLE	200090-001		Soil	133042	12/20/07 20:58	20.0		1:BUNKC:12-40=7400
030	354b030	SAMPLE	200090-002		Soil	133042	12/20/07 21:26	20.0		1:BUNKC:12-40=11000
031	354b031	X	IB				12/20/07 21:54	1.0		
032	354b032	SAMPLE	200014-004	S	Soil	133042	12/20/07 22:22	1.0		
033	354b033	X	CMARKER				12/20/07 22:50	1.0	1	
034	354b034	CCV	DSL_500				12/20/07 23:18	1.0	2	
035	354b035	CCV	MO_500				12/20/07 23:45	1.0	3	
036	354b036	X	CCV				12/21/07 00:13	1.0	5	
037	354b037	X	CCV				12/21/07 00:41	1.0	3	
038	354b038	X	IB				12/21/07 07:06	1.0		
039	354b039	SAMPLE	200072-002	S	Soil	133042	12/21/07 07:34	50.0		1:BUNKC:12-40=9800
040	354b040	SAMPLE	200014-006	S	Soil	133042	12/21/07 08:02	1.0		
041	354b041	SAMPLE	200014-003	S	Soil	133042	12/21/07 08:29	1.0		
042	354b042	X	IB				12/21/07 08:57	1.0		
043	354b043	SAMPLE	200014-007	S	Soil	133042	12/21/07 09:25	1.0		
044	354b044	CCV	DSL_250				12/21/07 09:53	1.0	6	
045	354b045	CCV	MO_500				12/21/07 10:21	1.0	3	
046	354b046	X	CMARKER				12/21/07 10:58	1.0	1	
047	354b047	BLANK	QC416284		Soil	131931	12/21/07 11:45	1.0		
048	354b048	MDL	199150-001		Soil	131931	12/21/07 12:13	1.0		
049	354b049	MDL	199150-002		Soil	131931	12/21/07 12:41	1.0		
050	354b050	MDL	199150-003		Soil	131931	12/21/07 13:09	1.0		
051	354b051	MDL	199150-004		Soil	131931	12/21/07 13:37	1.0		
052	354b052	MDL	199150-005		Soil	131931	12/21/07 14:04	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167510190

Instrument : GC15B
Method : EPA 8015B

Begun : 12/20/07 07:10
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	354b053	MDL	199150-006		Soil	131931	12/21/07 14:32	1.0		
054	354b054	MDL	199150-007		Soil	131931	12/21/07 15:00	1.0		
055	354b055	MDL	199150-008		Soil	131931	12/21/07 15:27	1.0		
056	354b056	CCV	MO_500				12/21/07 15:55	1.0	3	
057	354b057	CCV	DSL_500				12/21/07 16:23	1.0	2	
058	354b058	X	CMARKER				12/21/07 16:51	1.0	1	

Standards used: 1=S7890 2=S7541 3=S7312 4=S7279 5=S7542 6=S7540

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227491521

Instrument : GC14B
Method : EPA 8015B

Begun : 12/07/07 08:01
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	341_001	X	IB			12/07/07 08:01	1.0	
002	341_002	X	CMARKER			12/07/07 08:29	1.0	1
003	341_003	CCV	DSL_500			12/07/07 08:57	1.0	2
004	341_004	CCV	MO_500			12/07/07 09:25	1.0	3
005	341_005	X	IB			12/07/07 12:28	1.0	
006	341_006	CCV	DSL_250			12/07/07 12:59	1.0	4
007	341_007	CCV	MO_500			12/07/07 13:26	1.0	3
008	341_008	IB	CALIB			12/07/07 20:59	1.0	
009	341_009	IB	CALIB			12/07/07 21:27	1.0	
010	341_010	ICAL	DSL_10			12/07/07 21:55	1.0	5
011	341_011	ICAL	DSL_100			12/07/07 22:23	1.0	6
012	341_012	ICAL	DSL_500			12/07/07 22:51	1.0	7
013	341_013	ICAL	DSL_5000			12/07/07 23:18	1.0	8
014	341_014	ICAL	DSL_7500			12/07/07 23:46	1.0	9
015	341_015	IB	CALIB			12/08/07 00:14	1.0	
016	341_016	ICV	DSL_500			12/08/07 00:42	1.0	10
017	341_017	X	ICV			12/08/07 01:10	1.0	10
018	341_018	IB	CALIB			12/08/07 01:38	1.0	

Analyst: ATL Date: 12/10/07 Reviewer: LH Date: 12/10/07

Standards used: 1=S7539 2=S7541 3=S7312 4=S7540 5=S6612 6=S6613 7=S6614 8=S6611 9=S6616 10=S6617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227497284

Instrument : GC14B
Method : EPA 8015B

Begun : 12/11/07 08:04
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	345_001	X	PRIMER			12/11/07 08:04	1.0	
002	345_002	X	IB			12/11/07 08:31	1.0	
003	345_003	X	CCV			12/11/07 08:59	1.0	1
004	345_004	X	CMARKER			12/11/07 09:27	1.0	2
005	345_005	CCV	MO_500			12/11/07 09:55	1.0	3
006	345_006	CCV	DSL_500			12/11/07 10:23	1.0	1
007	345_007	CCV	MO_500			12/11/07 11:00	1.0	3
008	345_008	X	TANKCHECK			12/11/07 11:53	1.0	
009	345_009	X	TANKCHECK			12/11/07 12:20	1.0	
010	345_010	X	TANKCHECK			12/11/07 16:55	1.0	
011	345_011	IB	CALIB			12/11/07 17:23	1.0	
012	345_012	ICAL	MO_50			12/11/07 17:50	1.0	4
013	345_013	ICAL	MO_250			12/11/07 18:18	1.0	5
014	345_014	ICAL	MO_500			12/11/07 18:46	1.0	6
015	345_015	ICAL	MO_1000			12/11/07 19:14	1.0	7
016	345_016	ICAL	MO_5000			12/11/07 19:42	1.0	8
017	345_017	ICAL	MO_7500			12/11/07 20:10	1.0	9
018	345_018	IB	CALIB			12/11/07 20:38	1.0	
019	345_019	ICAL	HEX_5			12/11/07 21:05	1.0	10
020	345_020	ICAL	HEX_10			12/11/07 21:33	1.0	11
021	345_021	ICAL	HEX_25			12/11/07 22:01	1.0	12
022	345_022	ICAL	HEX_50			12/11/07 22:29	1.0	13
023	345_023	ICAL	HEX_100			12/11/07 22:56	1.0	14
024	345_024	ICAL	HEX_200			12/11/07 23:24	1.0	15
025	345_025	IB	CALIB			12/11/07 23:52	1.0	

Analyst: ATL Date: 12/12/07 Reviewer: LH Date: 12/12/07

Standards used: 1=S7541 2=S7539 3=S7312 4=S6848 5=S6849 6=S6850 7=S6851 8=S6846 9=S6847 10=S7036 11=S7037 12=S7038 13=S7039 14=S7040 15=S7041

00056

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227511655

Instrument : GC14B
Method : EPA 8015B

Begun : 12/21/07 07:35
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	355_001	X	PRIMER				12/21/07 07:35	1.0		
002	355_002	X	IB				12/21/07 08:03	1.0		
003	355_003	X	CMARKER				12/21/07 08:31	1.0	1	
004	355_004	CCV	DSL_500				12/21/07 08:59	1.0	2	
005	355_005	CCV	MO_500				12/21/07 09:27	1.0	3	
006	355_006	X	CCV				12/21/07 09:55	1.0	4	
007	355_007	SAMPLE	200072-001	S	Soil	133042	12/21/07 10:23	1.0		16:BUNKC:12-40=310000
008	355_008	SAMPLE	200073-001	S	Soil	133042	12/21/07 10:51	10.0		13:BUNKC:12-40=39000
009	355_009	X	IB				12/21/07 11:19	1.0		
010	355_010	SAMPLE	200014-002	S	Soil	133042	12/21/07 11:47	1.0		
011	355_011	SAMPLE	200014-001	S	Soil	133042	12/21/07 12:15	1.0		2:BUNKC:12-50=6900
012	355_012	X	IB				12/21/07 13:25	1.0		
013	355_013	X	IB				12/21/07 13:53	1.0		
014	355_014	SAMPLE	200072-001	S	Soil	133042	12/21/07 14:21	50.0		2:BUNKC:12-40=11000
015	355_015	MSS	200073-001	S	Soil	133042	12/21/07 14:49	100.0		
016	355_016	SAMPLE	200014-001	S	Soil	133042	12/21/07 15:17	1.0		2:BUNKC:12-50=6700
017	355_017	SAMPLE	200014-001		Soil	133042	12/21/07 15:44	1.0		
018	355_018	X	IB				12/21/07 16:12	1.0		
019	355_019	X	IB				12/21/07 16:40	1.0		
020	355_020	SAMPLE	199906-004	S	Water	133069	12/21/07 17:08	1.0		
021	355_021	SAMPLE	199906-005	S	Water	133069	12/21/07 17:36	1.0		
022	355_022	CCV	DSL_1000				12/21/07 18:04	1.0	5	
023	355_023	CCV	MO_500				12/21/07 18:32	1.0	3	
024	355_024	X	CCV				12/21/07 19:00	1.0	5	
025	355_025	X	CCV				12/21/07 19:28	1.0	3	
026	355_026	X	CMARKER				12/21/07 19:56	1.0	1	

Standards used: 1=S7890 2=S7541 3=S7312 4=S7279 5=S7542

AA057

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 867497798

Instrument : GC26A
Method : EPA 8015B
Begun : 12/11/07 16:38
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
007	345a007	X	IB			12/11/07 16:38	1.0	
008	345a008	IB	CALIB			12/11/07 17:06	1.0	
009	345a009	X	CMARKER			12/11/07 17:34	1.0	1
010	345a010	IB	CALIB			12/11/07 18:02	1.0	
011	345a011	ICAL	DSL_10			12/11/07 18:30	1.0	2
012	345a012	ICAL	DSL_100			12/11/07 18:58	1.0	3
013	345a013	ICAL	DSL_500			12/11/07 19:26	1.0	4
014	345a014	ICAL	DSL_1000			12/11/07 19:55	1.0	5
015	345a015	ICAL	DSL_5000			12/11/07 20:23	1.0	6
016	345a016	ICAL	DSL_7500			12/11/07 20:51	1.0	7
017	345a017	IB	CALIB			12/11/07 21:19	1.0	
018	345a018	ICV	DSL_500			12/11/07 21:47	1.0	8
019	345a019	X	DSL_500			12/11/07 22:15	1.0	8
020	345a020	IB	CALIB			12/11/07 22:43	1.0	
021	345a021	ICAL	MO_50			12/11/07 23:12	1.0	9
022	345a022	ICAL	MO_250			12/11/07 23:40	1.0	10
023	345a023	ICAL	MO_500			12/12/07 00:08	1.0	11
024	345a024	ICAL	MO_1000			12/12/07 00:36	1.0	12
025	345a025	ICAL	MO_5000			12/12/07 01:04	1.0	13
026	345a026	ICAL	MO_7500			12/12/07 01:32	1.0	14
027	345a027	IB	CALIB			12/12/07 02:00	1.0	
028	345a028	ICAL	HEX_5			12/12/07 02:28	1.0	15
029	345a029	ICAL	HEX_10			12/12/07 02:56	1.0	16
030	345a030	ICAL	HEX_25			12/12/07 03:25	1.0	17
031	345a031	ICAL	HEX_50			12/12/07 03:53	1.0	18
032	345a032	ICAL	HEX_100			12/12/07 04:21	1.0	19
033	345a033	ICAL	HEX_200			12/12/07 04:49	1.0	20
034	345a034	IB	CALIB			12/12/07 05:17	1.0	

Analyst: JDG Date: 12/12/07 Reviewer: LH Date: 12/12/07

Standards used: 1=S4049 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847 15=S7036 16=S7037 17=S7038 18=S7039 19=S7040 20=S7041

00058

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 867511675

Instrument : GC26A
Method : EPA 8015B

Begun : 12/21/07 07:55
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	355a001	X	PRIMER				12/21/07 07:55	1.0	
002	355a002	X	IB				12/21/07 08:23	1.0	
003	355a003	X	CMARKER				12/21/07 08:51	1.0	1
004	355a004	CCV	DSL_250				12/21/07 09:19	1.0	2
005	355a005	CCV	MO_500				12/21/07 09:47	1.0	3
006	355a006	BLANK	QC421105	S	Soil	133042	12/21/07 10:19	1.0	
007	355a007	X	IB				12/21/07 10:48	1.0	
008	355a008	BLANK	QC416284		Soil	131931	12/21/07 11:16	1.0	
009	355a009	MDL	199150-001		Soil	131931	12/21/07 11:45	1.0	
010	355a010	MDL	199150-002		Soil	131931	12/21/07 12:13	1.0	
011	355a011	MDL	199150-003		Soil	131931	12/21/07 12:41	1.0	
012	355a012	MDL	199150-004		Soil	131931	12/21/07 13:10	1.0	
013	355a013	MDL	199150-005		Soil	131931	12/21/07 13:38	1.0	
014	355a014	MDL	199150-006		Soil	131931	12/21/07 14:06	1.0	
015	355a015	MDL	199150-007		Soil	131931	12/21/07 14:34	1.0	
016	355a016	MDL	199150-008		Soil	131931	12/21/07 15:02	1.0	
017	355a017	CCV	DSL_1000				12/21/07 15:30	1.0	4
018	355a018	CCV	MO_500				12/21/07 15:59	1.0	3
019	355a019	X	CMARKER				12/21/07 16:26	1.0	1

Standards used: 1=S7890 2=S7540 3=S7312 4=S7542

00059

SAMPLE PREPARATION SUMMARY

Batch # : 133042
Started By : JLM
Method : 3550B
Spike #1 ID : S7914

Prep Date : 20-DEC-2007

Spike #2 ID : S7827

Analysis : TEH
Finished By : ECB
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
200014-001		Soil	50.21	5	1	0.09958		1			3630C	TEHM	
200014-002		Soil	50.08	5	1	0.09984		1			3630C	TEHM	
200014-003		Soil	50.06	5	1	0.09988		1			3630C	TEHM	
200014-004		Soil	50.04	5	1	0.09992		1			3630C	TEHM	
200014-005		Soil	50.03	5	1	0.09994		1			3630C	TEHM	
200014-006		Soil	50.26	5	1	0.09948		1			3630C	TEHM	
200014-007		Soil	50.16	5	1	0.09968		1			3630C	TEHM	
200072-001		Soil	50.08	5	1	0.09984		1			3630C	TEHM	
200072-002		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
200073-001		Soil	50.02	5	1	0.09996		1			3630C	TEHM	mss
200088-001		Soil	50.05	5	1	0.0999		1				TEHM	
200090-001		Soil	50.25	5	1	0.0995		1				TEHM	
200090-002		Soil	50.2	5	1	0.0996		1				TEHM	
QC421105	BLANK	Soil	50.25	5	1	0.0995		1			3630C		
QC421106	LCS	Soil	50.09	5	1	0.09982		1	1		3630C		
QC421107	MS	Soil	50.22	5	1	0.09956		1	1		3630C		
QC421108	MSD	Soil	50.16	5	1	0.09968		1	1		3630C		

LH 12/27/07 : No MS/MSD will be reported with this batch since the MSS is >4x the spike. Results would be NM.

Analyst: JDG Date: 12/28/07 Reviewer: LH Date: 12/28/07

00050

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2628 Page 14

LIMS Batch No: 133042
LIMS Analysis TEHM
Date Extracted: 12/20/07

Extraction Method:
☐ Shaker Table
☒ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
JLM 12/20/07	HG 200014-001	50.21	5.0	X	
	-002	50.08			
	-003	50.06			
	-004	50.04			
5	-005	50.03			
	-006	50.26			
	-007	50.16			
JLM 12/20/07	HG 200072-001	50.08			
	-002	50.02			
10	200073-001	50.02			MSS
	200088-001	50.05			
	200090-001	50.25			
	-002	50.20			
	MB QLY2105	50.25		X	
15	LCS 6	50.09			
	MS 7	50.22			
	MSD 8	50.16			
20					

JLM 12/20/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM4715 8737	JLM 12/20/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM4707 3734	
1.0 mL of Surrogate solution was added to all samples	57914E	
1.0 mL of Matrix Spiking solution was added to all spikes	57827C	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM47158	
Acetone	EM47142	
Samples were: ☒ sonicated 3 times ☐ placed on shaker table at:	✓	JLM ECB 12/20/07
taken off shaker table at:	N/A	
Extracts filtered through baked, rinsed powdered Na_2SO_4	✓ EM4707 3734	ECB 12/20/07
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	ECB 12/20/07

JLM 12/20/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

12/20/07
Reviewed by / Date

E

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: EEB
Cleanup Date: 12/20/07

Benchbook # **2611**
Page 89

	Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
	200014-001	133042	1.0	1.0	
	-002				
	-003				
	-004				
5	-005				
	-006				
	-007				
	200072-001				
	-002				
10	200073-001				MSS
	~~200088-001~~ EEB 12/19				
	~~200090~~ EEB 12/20	DATA NOT USED			
	MB QC421105				
	LCS 6				
15	MS 7				200073-001
	MSD 8				
20					
25					
30					EEB 12/20/07

☐ Extracts were cleaned up using C&T assembled ___ g columns
☒ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 4.0 mL CH_2Cl_2
Concentrated to volumes as noted above

	Mfg & Lot # / Time / Program	Initials / Date
	NA	EEB 12/20/07
	~~9310 EEB 12/20~~ SP9310	
	EM47169	
	✓	↓

EEB 12/20/07
Extraction Chemist / Date

Continued from page ___
Continued on page 1

12/20/07
Reviewed by / Date

Project SOIL HLIQUOI 15K2627

Continued from Page <

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
200088-001A	29.93	8270-SIM		
RFW 12/19/07 200090-001A	29.97			
200090-002A	30.24			
				RFW 12/19/07
200088-001A	50.05	TEHM	133042	
				ELB 12/20/07
200112-001A	30.08	8270-SIM		
				ELB 12/20/07
200112-001A	30.16	P/P		MSS
MB	30.18			EM47158737
LCS	30.06	8081		
MS	30.07			200112-001A
MSD	30.05			
LCS	30.19	PCB		EM47158737
MS	30.09			200112-001A
MSD	30.12			
				ELB 12/20/07
200090-001A	50.25	TEHM	133042	
-002	50.20			
				ELB 12/20/07
200072-001A	50.08	TEHM		
-002	50.02			
				ELB 12/20/07
200073-001A	50.02	TEHM		MSS
MB	50.25			EM47158737
LCS	50.09			
MS	50.22			200073-001A
MSD	50.16			
				ELB 12/20/07
200073-001A	30.10	8270-SIM		MSS
MB	30.11			EM47158737
LCS	30.11			
MS	30.14			200073-001A
MSD	30.18			
				ELB 12/20/07

Continued on Page

Signed — Date 12/20/07

Read and Understood By

Signed — Date

00063

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
199998-001A	50.11	TEHM		
-002	50.34			
-003	50.06			MS
MB	50.07			EM47587B7
LCS	50.44			↓
MS	50.02			199998-003
MSD	50.06			↓
				SPH 12/17/07
200008-003A	50.04	TEHM		
4	50.30			
5	50.04			
6	50.36			
7	50.03			
8	50.03			
				JJB 12/17/07
199927-001A	30.17	8081		
				ELB 12/18/07
200014-001A	50.21	TEHM	133042	
-002	50.08			
-003	50.06			
-004	50.04			
-005	50.03			
-006	50.26			
-007	50.16			
				ELB 12/18/07
200014-001A	30.26	8081		
-002	30.10			
-003	30.06			
-004	30.05			
-005	30.11			
-006	30.05			
-007	30.09			
				ELB 12/18/07

Continued on Page

ELB 12/18/07
Signed Date

Read and Understood By
Signed Date

Curtis & Tompkins, Ltd.

Volatile Organics
Soil

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065SD100[5.5]	Diln Fac:	1,000
Lab ID:	200073-001	Batch#:	133012
Matrix:	Soil	Sampled:	12/19/07
Units:	ug/Kg	Received:	12/19/07
Basis:	dry	Analyzed:	12/19/07

Moisture: 35%

Analyte	Result	RL	MDL
Freon 12	ND	15,000	1,700
Chloromethane	4,200 J	15,000	1,100
Vinyl Chloride	ND	15,000	2,100
Bromomethane	ND	15,000	1,000
Chloroethane	ND	15,000	5,400
Trichlorofluoromethane	ND	7,700	1,700
Acetone	ND	31,000	5,500
Freon 113	ND	7,700	2,200
1,1-Dichloroethene	ND	7,700	1,500
Methylene Chloride	ND	31,000	1,300
Carbon Disulfide	ND	7,700	1,000
MTBE	ND	7,700	810
trans-1,2-Dichloroethene	ND	7,700	1,000
Vinyl Acetate	ND	77,000	1,700
1,1-Dichloroethane	ND	7,700	1,000
2-Butanone	ND	15,000	4,000
cis-1,2-Dichloroethene	ND	7,700	850
2,2-Dichloropropane	ND	7,700	1,100
Chloroform	ND	7,700	1,500
Bromochloromethane	ND	7,700	1,100
1,1,1-Trichloroethane	ND	7,700	1,400
1,1-Dichloropropene	ND	7,700	1,200
Carbon Tetrachloride	ND	7,700	1,200
1,2-Dichloroethane	ND	7,700	910
Benzene	ND	7,700	910
Trichloroethene	ND	7,700	830
1,2-Dichloropropane	ND	7,700	940
Bromodichloromethane	ND	7,700	720
Dibromomethane	ND	7,700	690
4-Methyl-2-Pentanone	ND	15,000	1,200
cis-1,3-Dichloropropene	ND	7,700	830
Toluene	ND	7,700	660
trans-1,3-Dichloropropene	ND	7,700	690
1,1,2-Trichloroethane	ND	7,700	500
2-Hexanone	ND	15,000	1,100
1,3-Dichloropropane	ND	7,700	1,500
Tetrachloroethene	ND	7,700	1,700
Dibromochloromethane	ND	7,700	1,300
1,2-Dibromoethane	ND	7,700	1,600
Chlorobenzene	ND	7,700	1,100
1,1,1,2-Tetrachloroethane	ND	7,700	900
Ethylbenzene	ND	7,700	540
m,p-Xylenes	ND	7,700	1,500
o-Xylene	ND	7,700	780
Styrene	ND	7,700	790
Bromoform	ND	7,700	910
Isopropylbenzene	ND	7,700	750
1,1,2,2-Tetrachloroethane	ND	7,700	890
1,2,3-Trichloropropane	ND	7,700	1,300

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065SD100[5.5]	Diln Fac:	1,000
Lab ID:	200073-001	Batch#:	133012
Matrix:	Soil	Sampled:	12/19/07
Units:	ug/Kg	Received:	12/19/07
Basis:	dry	Analyzed:	12/19/07

Analyte	Result	RL	MDL
Propylbenzene	ND	7,700	930
Bromobenzene	ND	7,700	1,000
1,3,5-Trimethylbenzene	ND	7,700	720
2-Chlorotoluene	ND	7,700	880
4-Chlorotoluene	ND	7,700	990
tert-Butylbenzene	ND	7,700	910
1,2,4-Trimethylbenzene	ND	7,700	850
sec-Butylbenzene	2,100 J	7,700	720
para-Isopropyl Toluene	ND	7,700	800
1,3-Dichlorobenzene	ND	7,700	470
1,4-Dichlorobenzene	ND	7,700	630
n-Butylbenzene	2,400 J	7,700	710
1,2-Dichlorobenzene	ND	7,700	710
1,2-Dibromo-3-Chloropropane	ND	7,700	950
1,2,4-Trichlorobenzene	ND	7,700	530
Hexachlorobutadiene	ND	7,700	900
Naphthalene	ND	7,700	360
1,2,3-Trichlorobenzene	ND	7,700	530

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-124
1,2-Dichloroethane-d4	128	79-136
Toluene-d8	102	80-120
Bromofluorobenzene	98	80-122
Trifluorotoluene (MeOH)	DO	55-146

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC420977	Diln Fac:	1.000
Matrix:	Soil	Batch#:	133012
Units:	ug/Kg	Analyzed:	12/19/07

Analyte	Result	RL	MDL
Freon 12	ND	10	0.29
Chloromethane	0.48 J	10	0.27
Vinyl Chloride	ND	10	0.12
Bromomethane	1.1 J	10	0.39
Chloroethane	ND	10	0.32
Trichlorofluoromethane	ND	5.0	0.52
Acetone	1.7 J b	20	1.6
Freon 113	ND	5.0	0.84
1,1-Dichloroethene	ND	5.0	0.54
Methylene Chloride	0.81 J	20	0.42
Carbon Disulfide	ND	5.0	0.46
MTBE	ND	5.0	0.26
trans-1,2-Dichloroethene	ND	5.0	0.51
Vinyl Acetate	ND	50	0.20
1,1-Dichloroethane	ND	5.0	0.32
2-Butanone	ND	10	0.29
cis-1,2-Dichloroethene	ND	5.0	0.36
2,2-Dichloropropane	ND	5.0	0.54
Chloroform	ND	5.0	0.43
Bromochloromethane	ND	5.0	0.19
1,1,1-Trichloroethane	ND	5.0	0.68
1,1-Dichloropropene	ND	5.0	0.39
Carbon Tetrachloride	ND	5.0	0.68
1,2-Dichloroethane	ND	5.0	0.39
Benzene	ND	5.0	0.32
Trichloroethene	ND	5.0	0.73
1,2-Dichloropropane	ND	5.0	0.37
Bromodichloromethane	ND	5.0	0.21
Dibromomethane	ND	5.0	0.28
4-Methyl-2-Pentanone	ND	10	0.31
cis-1,3-Dichloropropene	ND	5.0	0.12
Toluene	ND	5.0	0.32
trans-1,3-Dichloropropene	ND	5.0	0.24
1,1,2-Trichloroethane	ND	5.0	0.24
2-Hexanone	ND	10	0.36
1,3-Dichloropropane	ND	5.0	0.36
Tetrachloroethene	ND	5.0	0.70
Dibromochloromethane	ND	5.0	0.28
1,2-Dibromoethane	ND	5.0	0.30
Chlorobenzene	ND	5.0	0.25
1,1,1,2-Tetrachloroethane	ND	5.0	0.32
Ethylbenzene	ND	5.0	0.38
m,p-Xylenes	ND	5.0	0.75
o-Xylene	ND	5.0	0.31
Styrene	ND	5.0	0.32
Bromoform	ND	5.0	0.62
Isopropylbenzene	ND	5.0	0.33
1,1,2,2-Tetrachloroethane	ND	5.0	0.27
1,2,3-Trichloropropane	ND	5.0	0.40
Propylbenzene	ND	5.0	0.34
Bromobenzene	ND	5.0	0.31

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

20.0

00058

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC420977	Diln Fac:	1.000
Matrix:	Soil	Batch#:	133012
Units:	ug/Kg	Analyzed:	12/19/07

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	5.0	0.28
2-Chlorotoluene	ND	5.0	0.28
4-Chlorotoluene	ND	5.0	0.26
tert-Butylbenzene	ND	5.0	0.47
1,2,4-Trimethylbenzene	ND	5.0	0.25
sec-Butylbenzene	ND	5.0	0.43
para-Isopropyl Toluene	ND	5.0	0.37
1,3-Dichlorobenzene	0.30 J	5.0	0.23
1,4-Dichlorobenzene	0.40 J	5.0	0.29
n-Butylbenzene	0.66 J	5.0	0.43
1,2-Dichlorobenzene	0.26 J	5.0	0.18
1,2-Dibromo-3-Chloropropane	ND	5.0	0.54
1,2,4-Trichlorobenzene	0.75 J	5.0	0.39
Hexachlorobutadiene	0.73 J	5.0	0.67
Naphthalene	1.2 J	5.0	0.33
1,2,3-Trichlorobenzene	0.75 J	5.0	0.27

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-124
1,2-Dichloroethane-d4	112	79-136
Toluene-d8	98	80-120
Bromofluorobenzene	106	80-122

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

20.0

00069

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC420976	Diln Fac:	1.000
Matrix:	Soil	Batch#:	133012
Units:	ug/Kg	Analyzed:	12/19/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	56.09	112	74-131
Benzene	50.00	53.27	107	77-121
Trichloroethene	50.00	56.86	114	77-121
Toluene	50.00	51.77	104	79-122
Chlorobenzene	50.00	49.76	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-124
1,2-Dichloroethane-d4	101	79-136
Toluene-d8	97	80-120
Bromofluorobenzene	102	80-122

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065SD100[5.5]	Diln Fac:	1,000
MSS Lab ID:	200073-001	Batch#:	133012
Matrix:	Soil	Sampled:	12/19/07
Units:	ug/Kg	Received:	12/19/07
Basis:	dry	Analyzed:	12/19/07

Type: MS
Lab ID: QC421072

Moisture: 35%

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<1,476	76,920	93,330	121	61-145
Benzene	<908.0	76,920	74,300	97	57-123
Trichloroethene	<833.8	76,920	78,550	102	52-141
Toluene	<660.6	76,920	71,040	92	53-126
Chlorobenzene	<1,088	76,920	64,980	84	49-121

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-124
1,2-Dichloroethane-d4	108	79-136
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-122
Trifluorotoluene (MeOH)	DO	55-146

Type: MSD
Lab ID: QC421073

Moisture: 35%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	76,920	100,500	131	61-145	7	26
Benzene	76,920	81,370	106	57-123	9	25
Trichloroethene	76,920	86,260	112	52-141	9	26
Toluene	76,920	77,950	101	53-126	9	27
Chlorobenzene	76,920	73,360	95	49-121	12	27

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-124
1,2-Dichloroethane-d4	102	79-136
Toluene-d8	98	80-120
Bromofluorobenzene	101	80-122
Trifluorotoluene (MeOH)	DO	55-146

DO= Diluted Out
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 200073 MSVOA Soil
EPA 8260B

Inst : MSVOA02 Run Name : BFB IDF : 1.0
Seqnum : 417479005001 File : bks01 Time : 28-NOV-2007 15:25

Standards: S6497

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	23320	21.83	
75	30% - 60% of mass 95	49101	45.97	
95		106818		
96	5% - 9% of mass 95	7029	6.58	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	76314	71.44	
175	5% - 9% of mass 174	5622	7.37	
176	> 95% and < 101% of mass 174	75522	98.96	
177	5% - 9% of mass 176	5083	6.73	

Analyst: BO Date: 11/29/07 Reviewer: LW Date: 11/29/07

417479005001

CURTIS & TOMPKINS BFB TUNE FOR 200073 MSVOA Soil
EPA 8260B

Inst : MSVOA02 Run Name : BFB IDF : 1.0
Seqnum : 417508786007 File : blj07 Time : 19-DEC-2007 11:51

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	16342	21.49	
75	30% - 60% of mass 95	35157	46.24	
95		76029		
96	5% - 9% of mass 95	5225	6.87	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	53560	70.45	
175	5% - 9% of mass 174	3767	7.03	
176	> 95% and < 101% of mass 174	52085	97.25	
177	5% - 9% of mass 176	3383	6.50	

Analyst: BO Date: 12/19/07 Reviewer: LW Date: 12/19/07

417508786007

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 MSVOA Soil: EPA 8260B

Inst : MSVOA02
Calnum : 417479005001
Units : ug/L

Name : 826GOX02
Date : 28-NOV-2007 19:32
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	bks05	417479005005	2.5PPB	28-NOV-2007 19:32	S7638 (20000X), S7639 (20000X), S7366 (1000X)
L2	bks06	417479005006	5PPB	28-NOV-2007 20:05	S7638 (10000X), S7639 (10000X), S7366 (1000X)
L3	bks07	417479005007	10PPB	28-NOV-2007 20:38	S7638 (5000X), S7639 (5000X), S7366 (1000X)
L4	bks08	417479005008	20PPB	28-NOV-2007 21:11	S7637 (25000X), S7625 (25000X), S7366 (1000X)
L5	bks09	417479005009	50PPB	28-NOV-2007 21:43	S7637 (10000X), S7625 (10000X), S7366 (1000X)
L6	bks10	417479005010	60PPB	28-NOV-2007 22:16	S7637 (8333X), S7625 (8333X), S7366 (1000X)
L7	bks11	417479005011	75PPB	28-NOV-2007 22:48	S7637 (6667X), S7625 (6667X), S7366 (1000X)
L8	bks12	417479005012	100PPB	28-NOV-2007 23:21	S7637 (5000X), S7625 (5000X), S7366 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.5304m	0.4834	0.4647m	0.6752	0.6727	0.6936	0.6959	0.6811	LINR	1.46775	1.42909		0.6121	0.999	15	0.05	0.99	
Chloromethane		1.1687	1.1479m	1.2960m	1.2504	1.2362	1.2446	1.1906	AVRG		0.82020		1.2192	4	15	0.10	0.99	
Vinyl Chloride	1.0573	0.8100	0.8060m	0.9085	0.8995	0.9184	0.9200	0.9100	AVRG		1.10654		0.9037	9	15	0.05	0.99	
Bromomethane		0.3915	0.3748	0.4463	0.4817	0.4726	0.4828	0.4785	AVRG		2.23777		0.4469	10	15	0.05	0.99	
Chloroethane		0.5325m	0.4897m	0.5212	0.4959	0.5064	0.5159	0.4946	AVRG		1.96838		0.5080	3	15	0.05	0.99	
Trichlorofluoromethane		0.8138	0.7868m	0.8406	0.8365	0.8707	0.8618	0.8882	AVRG		1.18676		0.8426	4	15	0.05	0.99	
Acetone				0.3355	0.2718	0.3063	0.2929	0.2810	AVRG		3.36146		0.2975	8	15	0.05	0.99	
Freon 113		0.5196	0.5208	0.5661	0.4514	0.5247	0.4677	0.5244	AVRG		1.95823		0.5107	8	15	0.05	0.99	
1,1-Dichloroethene		0.4321	0.4209m	0.4596	0.4030	0.4613	0.4262	0.4563	AVRG		2.28803		0.4371	5	15	0.05	0.99	
Methylene Chloride		0.7975	0.8590	0.8673	0.7233	0.7681	0.7361	0.7442	AVRG		1.27376		0.7851	7	15	0.05	0.99	
Carbon Disulfide		2.0461	1.9576	2.1856	1.9299	2.1095	1.9825	2.0850	AVRG		0.48964		2.0423	4	15	0.05	0.99	
MTBE		1.3887	1.4288	1.5634	1.4721	1.4895	1.4248	1.3859	AVRG		0.68943		1.4505	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5579	0.5152m	0.5280	0.4873	0.5099	0.4913	0.4972	AVRG		1.95165		0.5124	5	15	0.05	0.99	
Vinyl Acetate		1.1879	1.2455	1.6614	1.5517	1.6140	1.5424	1.5344	AVRG		0.67715		1.4768	12	15	0.05	0.99	
1,1-Dichloroethane		1.1318	1.0603	1.1239	1.0195	1.0483	1.0232	1.0226	AVRG		0.94217		1.0614	5	15	0.10	0.99	
2-Butanone		0.5182	0.5568	0.4999	0.4516	0.4979	0.4731	0.4571	AVRG		2.02625		0.4935	7	15	0.05	0.99	
2,2-Dichloropropane		0.7363	0.6882	0.6871	0.6196	0.6775	0.6246	0.6577	AVRG		1.49223		0.6701	6	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6186	0.5624	0.5815	0.5439	0.5540	0.5361	0.5383	AVRG		1.77901		0.5621	5	15	0.05	0.99	
Chloroform		1.0377	0.9208	0.9378	0.8853	0.9029	0.8738	0.8665	AVRG		1.08950		0.9179	6	15	0.05	0.99	
Bromochloromethane		0.3100	0.3038	0.3255	0.3043	0.3120	0.3063	0.3014	AVRG		3.23569		0.3091	3	15	0.05	0.99	
1,1,1-Trichloroethane		0.6362	0.6091	0.6278	0.5696	0.6287	0.5810	0.6229	AVRG		1.63734		0.6107	4	15	0.05	0.99	
1,1-Dichloropropene		0.4557	0.4405	0.4406	0.3924	0.4293	0.4071	0.4435	AVRG		2.32633		0.4299	5	15	0.05	0.99	
Carbon Tetrachloride		0.3205	0.3164	0.3235	0.2847	0.3225	0.2936	0.3285	AVRG		3.19679		0.3128	5	15	0.05	0.99	
1,2-Dichloroethane		0.4740	0.4688	0.4833	0.4568	0.4590	0.4397	0.4350	AVRG		2.17611		0.4595	4	15	0.05	0.99	
Benzene		1.4763	1.4069	1.4294	1.3492	1.3844	1.3366	1.3628	AVRG		0.71827		1.3922	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.3507	0.3273	0.3287	0.3095	0.3231	0.3098	0.3268	AVRG		3.07564		0.3251	4	15	0.05	0.99	
1,2-Dichloropropane		0.4426	0.4364	0.4408	0.4170	0.4196	0.4107	0.4159	AVRG		2.34661		0.4261	3	15	0.05	0.99	
Bromodichloromethane		0.4315	0.4253	0.4373	0.4315	0.4405	0.4317	0.4310	AVRG		2.31104		0.4327	1	15	0.05	0.99	
Dibromomethane		0.2384	0.2434	0.2522	0.2401	0.2424	0.2355	0.2324	AVRG		4.15586		0.2406	3	15	0.05	0.99	
4-Methyl-2-Pentanone		0.6069	0.5995	0.6241	0.5872	0.6441	0.6207	0.6132	AVRG		1.62954		0.6137	3	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5739	0.5530	0.5757	0.5552	0.5607	0.5564	0.5564	AVRG		1.78060		0.5616	2	15	0.05	0.99	
Toluene		0.9758	0.9449	0.9504	0.8939	0.9116	0.8900	0.9128	AVRG		1.08034		0.9256	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4786	0.4877	0.5139	0.4999	0.5059	0.4906	0.4939	AVRG		2.01692		0.4958	2	15	0.05	0.99	
1,1,2-Trichloroethane		0.1694	0.1718	0.1761	0.1685	0.1733	0.1671	0.1654	AVRG		5.87437		0.1702	2	15	0.05	0.99	
2-Hexanone		0.4518	0.4715	0.4574	0.4346	0.4843	0.4652	0.4684	AVRG		2.16497		0.4619	3	15	0.05	0.99	
1,3-Dichloropropane		0.5418	0.5328	0.5430	0.5243	0.5302	0.5131	0.5128	AVRG		1.89289		0.5283	2	15	0.05	0.99	
Tetrachloroethene		0.3634	0.3443	0.3220	0.2954	0.3220	0.3005	0.3234	AVRG		3.08234		0.3244	7	15	0.05	0.99	
Dibromochloromethane		0.3074	0.3196	0.3332	0.3266	0.3317	0.3250	0.3320	AVRG		3.07631		0.3251	3	15	0.05	0.99	
1,2-Dibromoethane		0.3097	0.3257	0.3464	0.3309	0.3373	0.3247	0.3295	AVRG		3.03784		0.3292	3	15	0.05	0.99	
Chlorobenzene		1.1111	1.0322	1.0415	1.0015	1.0074	0.9879	1.0044	AVRG		0.97412		1.0266	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2886	0.2830	0.2872	0.2860	0.2820	0.2782	0.2884	AVRG		3.51141		0.2848	1	15	0.05	0.99	
Ethylbenzene		1.9271	1.8106	1.8112	1.6867	1.7377	1.6583	1.7156	AVRG		0.56693		1.7639	5	15	0.05	0.99	
m,p-Xylenes	0.8714	0.7386	0.7136	0.7039	0.6564	0.6701	0.6459	0.6598	AVRG		1.41348		0.7075	10	15	0.05	0.99	
o-Xylene		0.7143	0.6785	0.6957	0.6561	0.6677	0.6461	0.6564	AVRG		1.48467		0.6736	4	15	0.05	0.99	
Styrene		1.1374	1.1456	1.1729	1.1455	1.1546	1.1402	1.1384	AVRG		0.87122		1.1478	1	15	0.05	0.99	
Bromoform		0.1981	0.2091	0.2231	0.2214	0.2317	0.2279	0.2367	AVRG		4.52191		0.2211	6	15	0.10	0.99	
Isopropylbenzene		3.1492	3.0962	2.9377	2.7739	2.9186	2.7209	2.8285	AVRG		0.34272		2.9179	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9384	0.9165	0.8992	0.8902	0.9010	0.8718	0.8709	AVRG		1.11322		0.8983	3	15	0.30	0.99	
1,2,3-Trichloropropane		0.9040	0.8545	0.8328	0.7902	0.8088	0.7750	0.7710	AVRG		1.22029		0.8195	6	15	0.05	0.99	
Propylbenzene		4.2549	4.0898	3.9611	3.7126	3.8876	3.5981	3.6724	AVRG		0.25758		3.8823	6	15	0.05	0.99	
Bromobenzene		0.8975	0.8732	0.8566	0.8547	0.8391	0.8219	0.8197	AVRG		1.17396		0.8518	3	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.4619	2.3641	2.3459	2.2494	2.2883	2.1850	2.2153	AVRG		0.43452		2.3014	4	15	0.05	0.99	
2-Chlorotoluene		3.0044	2.8992	2.7394	2.6580	2.6423	2.5482	2.5252	AVRG		0.36810		2.7167	7	15	0.05	0.99	
4-Chlorotoluene		2.8726	2.7071	2.5770	2.5411	2.5254	2.4383	2.4224	AVRG		0.38709		2.5834	6	15	0.05	0.99	
tert-Butylbenzene		2.0284	1.9623	1.9609	1.8787	2.0022	1.8569	1.9633	AVRG		0.51272		1.9504	3	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.3646	2.2630	2.2417	2.2030	2.2167	2.1350	2.1557	AVRG		0.44931		2.2257	3	15	0.05	0.99	
sec-Butylbenzene		3.1847	3.2002	3.1358	2.9236	3.1434	2.8907	3.0716	AVRG		0.32483		3.0786	4	15	0.05	0.99	
para-Isopropyl Toluene		2.4002	2.3390	2.3344	2.2390	2.3554	2.1980	2.2877	AVRG		0.43333		2.3077	3	15	0.05	0.99	
1,3-Dichlorobenzene		1.8023	1.6758	1.6215	1.6149	1.5917	1.5642	1.5382	AVRG		0.61357		1.6298	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.8269	1.7070	1.6864	1.6448	1.6194	1.5983	1.5712	AVRG		0.60066		1.6648	5	15	0.05	0.99	
n-Butylbenzene		2.2932	2.1964	2.1463	2.0733	2.2262	2.0450	2.1375	AVRG		0.46303		2.1597	4	15	0.05	0.99	
1,2-Dichlorobenzene		1.5990	1.5873	1.5375	1.5248	1.5020	1.4758	1.4406	AVRG		0.65622		1.5239	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2062	0.2083	0.1965	0.1865	0.2042	0.1949	0.1961	AVRG		5.02587		0.1990	4	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.7906	0.7653	0.7403	0.7661	0.7456	0.7290	0.7421	AVRG		1.32604		0.7541	3	15	0.05	0.99	
Hexachlorobutadiene		0.4092	0.3946	0.3869	0.3627	0.3996	0.3693	0.4130	AVRG		2.55922		0.3907	5	15	0.05	0.99	
Naphthalene		2.0745	2.0400	2.0410	1.9791	2.0119	1.9492	1.9756	AVRG		0.49746		2.0102	2	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		0.7653	0.7258	0.7219	0.7267	0.7256	0.7056	0.7261	AVRG		1.37337		0.7281	2	15	0.05	0.99	
Dibromofluoromethane					0.4858				AVRG		2.05864		0.4858	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.3265				AVRG		3.06286		0.3265	0	15	0.05	0.99	
Trifluorotoluene		0.5341	0.5375	0.5296	0.4659	0.5186	0.4827	0.5272	AVRG		1.94679		0.5137	5	15	0.05	0.99	
Toluene-d8					1.2149				AVRG		0.82312		1.2149	0	15	0.05	0.99	
Bromofluorobenzene					1.0939				AVRG		0.91420		1.0939	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12	2.500	35	5.000	-2	10.00	-19	20.00	4	50.00	-1	60.00	2	75.00	1	100.0	-1
Chloromethane			5.000	-4	10.00	-6	20.00	6	50.00	3	60.00	1	75.00	2	100.0	-2
Vinyl Chloride	2.500	17	5.000	-10	10.00	-11	20.00	1	50.00	0	60.00	2	75.00	2	100.0	1
Bromomethane			5.000	-12	10.00	-16	20.00	0	50.00	8	60.00	6	75.00	8	100.0	7
Chloroethane			5.000	5	10.00	-4	20.00	3	50.00	-2	60.00	0	75.00	2	100.0	-3
Trichlorofluoromethane			5.000	-3	10.00	-7	20.00	0	50.00	-1	60.00	3	75.00	2	100.0	5
Acetone							20.00	13	50.00	-9	60.00	3	75.00	-2	100.0	-6
Freon 113			5.000	2	10.00	2	20.00	11	50.00	-12	60.00	3	75.00	-8	100.0	3
1,1-Dichloroethene			5.000	-1	10.00	-4	20.00	5	50.00	-8	60.00	6	75.00	-2	100.0	4
Methylene Chloride			5.000	2	10.00	9	20.00	10	50.00	-8	60.00	-2	75.00	-6	100.0	-5
Carbon Disulfide			5.000	0	10.00	-4	20.00	7	50.00	-6	60.00	3	75.00	-3	100.0	2
MTBE			5.000	-4	10.00	-1	20.00	8	50.00	1	60.00	3	75.00	-2	100.0	-4
trans-1,2-Dichloroethene			5.000	9	10.00	1	20.00	3	50.00	-5	60.00	0	75.00	-4	100.0	-3
Vinyl Acetate			5.000	-20	10.00	-16	20.00	13	50.00	5	60.00	9	75.00	4	100.0	4
1,1-Dichloroethane			5.000	7	10.00	0	20.00	6	50.00	-4	60.00	-1	75.00	-4	100.0	-4
2-Butanone			5.000	5	10.00	13	20.00	1	50.00	-8	60.00	1	75.00	-4	100.0	-7
2,2-Dichloropropane			5.000	10	10.00	3	20.00	3	50.00	-8	60.00	1	75.00	-7	100.0	-2
cis-1,2-Dichloroethene			5.000	10	10.00	0	20.00	3	50.00	-3	60.00	-1	75.00	-5	100.0	-4
Chloroform			5.000	13	10.00	0	20.00	2	50.00	-4	60.00	-2	75.00	-5	100.0	-6
Bromochloromethane			5.000	0	10.00	-2	20.00	5	50.00	-2	60.00	1	75.00	-1	100.0	-2
1,1,1-Trichloroethane			5.000	4	10.00	0	20.00	3	50.00	-7	60.00	3	75.00	-5	100.0	2
1,1-Dichloropropene			5.000	6	10.00	2	20.00	2	50.00	-9	60.00	0	75.00	-5	100.0	3
Carbon Tetrachloride			5.000	2	10.00	1	20.00	3	50.00	-9	60.00	3	75.00	-6	100.0	5
1,2-Dichloroethane			5.000	3	10.00	2	20.00	5	50.00	-1	60.00	0	75.00	-4	100.0	-5
Benzene			5.000	6	10.00	1	20.00	3	50.00	-3	60.00	-1	75.00	-4	100.0	-2
Trichloroethene			5.000	8	10.00	1	20.00	1	50.00	-5	60.00	-1	75.00	-5	100.0	1
1,2-Dichloropropane			5.000	4	10.00	2	20.00	3	50.00	-2	60.00	-2	75.00	-4	100.0	-2
Bromodichloromethane			5.000	0	10.00	-2	20.00	1	50.00	0	60.00	2	75.00	0	100.0	0
Dibromomethane			5.000	-1	10.00	1	20.00	5	50.00	0	60.00	1	75.00	-2	100.0	-3
4-Methyl-2-Pentanone			5.000	-1	10.00	-2	20.00	2	50.00	-4	60.00	5	75.00	1	100.0	0
cis-1,3-Dichloropropene			5.000	2	10.00	-2	20.00	3	50.00	-1	60.00	0	75.00	-1	100.0	-1
Toluene			5.000	5	10.00	2	20.00	3	50.00	-3	60.00	-2	75.00	-4	100.0	-1
trans-1,3-Dichloropropene			5.000	-3	10.00	-2	20.00	4	50.00	1	60.00	2	75.00	-1	100.0	0
1,1,2-Trichloroethane			5.000	0	10.00	1	20.00	3	50.00	-1	60.00	2	75.00	-2	100.0	-3
2-Hexanone			5.000	-2	10.00	2	20.00	-1	50.00	-6	60.00	5	75.00	1	100.0	1
1,3-Dichloropropane			5.000	3	10.00	1	20.00	3	50.00	-1	60.00	0	75.00	-3	100.0	-3
Tetrachloroethene			5.000	12	10.00	6	20.00	-1	50.00	-9	60.00	-1	75.00	-7	100.0	0
Dibromochloromethane			5.000	-5	10.00	-2	20.00	2	50.00	0	60.00	2	75.00	0	100.0	2
1,2-Dibromoethane			5.000	-6	10.00	-1	20.00	5	50.00	1	60.00	2	75.00	-1	100.0	0
Chlorobenzene			5.000	8	10.00	1	20.00	1	50.00	-2	60.00	-2	75.00	-4	100.0	-2
1,1,1,2-Tetrachloroethane			5.000	1	10.00	-1	20.00	1	50.00	0	60.00	-1	75.00	-2	100.0	1
Ethylbenzene			5.000	9	10.00	3	20.00	3	50.00	-4	60.00	-1	75.00	-6	100.0	-3

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	23	10.00	4	20.00	1	40.00	-1	100.0	-7	120.0	-5	150.0	-9	200.0	-7
o-Xylene			5.000	6	10.00	1	20.00	3	50.00	-3	60.00	-1	75.00	-4	100.0	-3
Styrene			5.000	-1	10.00	0	20.00	2	50.00	0	60.00	1	75.00	-1	100.0	-1
Bromoform			5.000	-10	10.00	-5	20.00	1	50.00	0	60.00	5	75.00	3	100.0	7
Isopropylbenzene			5.000	8	10.00	6	20.00	1	50.00	-5	60.00	0	75.00	-7	100.0	-3
1,1,2,2-Tetrachloroethane			5.000	4	10.00	2	20.00	0	50.00	-1	60.00	0	75.00	-3	100.0	-3
1,2,3-Trichloropropane			5.000	10	10.00	4	20.00	2	50.00	-4	60.00	-1	75.00	-5	100.0	-6
Propylbenzene			5.000	10	10.00	5	20.00	2	50.00	-4	60.00	0	75.00	-7	100.0	-5
Bromobenzene			5.000	5	10.00	3	20.00	1	50.00	0	60.00	-1	75.00	-4	100.0	-4
1,3,5-Trimethylbenzene			5.000	7	10.00	3	20.00	2	50.00	-2	60.00	-1	75.00	-5	100.0	-4
2-Chlorotoluene			5.000	11	10.00	7	20.00	1	50.00	-2	60.00	-3	75.00	-6	100.0	-7
4-Chlorotoluene			5.000	11	10.00	5	20.00	0	50.00	-2	60.00	-2	75.00	-6	100.0	-6
tert-Butylbenzene			5.000	4	10.00	1	20.00	1	50.00	-4	60.00	3	75.00	-5	100.0	1
1,2,4-Trimethylbenzene			5.000	6	10.00	2	20.00	1	50.00	-1	60.00	0	75.00	-4	100.0	-3
sec-Butylbenzene			5.000	3	10.00	4	20.00	2	50.00	-5	60.00	2	75.00	-6	100.0	0
para-Isopropyl Toluene			5.000	4	10.00	1	20.00	1	50.00	-3	60.00	2	75.00	-5	100.0	-1
1,3-Dichlorobenzene			5.000	11	10.00	3	20.00	-1	50.00	-1	60.00	-2	75.00	-4	100.0	-6
1,4-Dichlorobenzene			5.000	10	10.00	3	20.00	1	50.00	-1	60.00	-3	75.00	-4	100.0	-6
n-Butylbenzene			5.000	6	10.00	2	20.00	-1	50.00	-4	60.00	3	75.00	-5	100.0	-1
1,2-Dichlorobenzene			5.000	5	10.00	4	20.00	1	50.00	0	60.00	-1	75.00	-3	100.0	-5
1,2-Dibromo-3-Chloropropane			5.000	4	10.00	5	20.00	-1	50.00	-6	60.00	3	75.00	-2	100.0	-1
1,2,4-Trichlorobenzene			5.000	5	10.00	1	20.00	-2	50.00	2	60.00	-1	75.00	-3	100.0	-2
Hexachlorobutadiene			5.000	5	10.00	1	20.00	-1	50.00	-7	60.00	2	75.00	-5	100.0	6
Naphthalene			5.000	3	10.00	1	20.00	2	50.00	-2	60.00	0	75.00	-3	100.0	-2
1,2,3-Trichlorobenzene			5.000	5	10.00	0	20.00	-1	50.00	0	60.00	0	75.00	-3	100.0	0
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene			5.000	4	10.00	5	20.00	3	50.00	-9	60.00	1	75.00	-6	100.0	3
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 11/29/07 Reviewer: LW Date: 11/29/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200073 MSVOA Soil
EPA 8260B

Inst : MSVOA02 Name : 826GOX02
Calnum : 417479005001 Cal Date : 28-NOV-2007 Type : SOIL

ICV 417479005013 (bks13 28-NOV-2007) stds: S7652 (10000X), S7366 (1000X)
ICV 417479005014 (bks14 29-NOV-2007) stds: S7629 (10000X), S7498 (10000X), S7366 (1000X)

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	417479005013	28-NOV-2007	0.6121	0.6857	25.00	25.97	ug/L	4	20	
Chloromethane	417479005013	28-NOV-2007	1.2192	1.2201	25.00	25.02	ug/L	0	20	
Vinyl Chloride	417479005013	28-NOV-2007	0.9037	0.8549	25.00	23.65	ug/L	-5	20	
Bromomethane	417479005013	28-NOV-2007	0.4469	0.4125	25.00	23.08	ug/L	-8	20	
Chloroethane	417479005013	28-NOV-2007	0.5080	0.4792	25.00	23.58	ug/L	-6	20	
Trichlorofluoromethane	417479005013	28-NOV-2007	0.8426	0.7872	25.00	23.36	ug/L	-7	20	
Acetone	417479005014	29-NOV-2007	0.2975	0.3142	25.00	26.40	ug/L	6	30	
Freon 113	417479005014	29-NOV-2007	0.5107	0.4828	25.00	23.64	ug/L	-5	20	
1,1-Dichloroethene	417479005014	29-NOV-2007	0.4371	0.4740	25.00	27.11	ug/L	8	20	
Methylene Chloride	417479005014	29-NOV-2007	0.7851	0.8469	25.00	26.97	ug/L	8	20	
Carbon Disulfide	417479005014	29-NOV-2007	2.0423	1.9596	25.00	23.99	ug/L	-4	20	
MTBE	417479005014	29-NOV-2007	1.4505	1.3762	25.00	23.72	ug/L	-5	20	
trans-1,2-Dichloroethene	417479005014	29-NOV-2007	0.5124	0.5347	25.00	26.09	ug/L	4	20	
Vinyl Acetate	417479005014	29-NOV-2007	1.4768	1.2417	25.00	21.02	ug/L	-16	30	
1,1-Dichloroethane	417479005014	29-NOV-2007	1.0614	1.0921	25.00	25.72	ug/L	3	20	
2-Butanone	417479005014	29-NOV-2007	0.4935	0.4661	25.00	23.61	ug/L	-6	30	
2,2-Dichloropropane	417479005014	29-NOV-2007	0.6701	0.6831	25.00	25.48	ug/L	2	20	
cis-1,2-Dichloroethene	417479005014	29-NOV-2007	0.5621	0.5908	25.00	26.28	ug/L	5	20	
Chloroform	417479005014	29-NOV-2007	0.9179	0.9350	25.00	25.47	ug/L	2	20	
Bromochloromethane	417479005014	29-NOV-2007	0.3091	0.3174	25.00	25.67	ug/L	3	20	
1,1,1-Trichloroethane	417479005014	29-NOV-2007	0.6107	0.6322	25.00	25.88	ug/L	4	20	
1,1-Dichloropropene	417479005014	29-NOV-2007	0.4299	0.4636	25.00	26.96	ug/L	8	20	
Carbon Tetrachloride	417479005014	29-NOV-2007	0.3128	0.3404	25.00	27.21	ug/L	9	20	
1,2-Dichloroethane	417479005014	29-NOV-2007	0.4595	0.4580	25.00	24.91	ug/L	0	20	
Benzene	417479005014	29-NOV-2007	1.3922	1.4560	25.00	26.15	ug/L	5	20	
Trichloroethene	417479005014	29-NOV-2007	0.3251	0.3412	25.00	26.24	ug/L	5	20	
1,2-Dichloropropane	417479005014	29-NOV-2007	0.4261	0.4061	25.00	23.82	ug/L	-5	20	
Bromodichloromethane	417479005014	29-NOV-2007	0.4327	0.4532	25.00	26.19	ug/L	5	20	
Dibromomethane	417479005014	29-NOV-2007	0.2406	0.2473	25.00	25.70	ug/L	3	20	
4-Methyl-2-Pentanone	417479005014	29-NOV-2007	0.6137	0.5831	25.00	23.76	ug/L	-5	30	
cis-1,3-Dichloropropene	417479005014	29-NOV-2007	0.5616	0.5610	25.00	24.97	ug/L	0	20	
Toluene	417479005014	29-NOV-2007	0.9256	0.9688	25.00	26.17	ug/L	5	20	
trans-1,3-Dichloropropene	417479005014	29-NOV-2007	0.4958	0.4628	25.00	23.34	ug/L	-7	20	
1,1,2-Trichloroethane	417479005014	29-NOV-2007	0.1702	0.1746	25.00	25.64	ug/L	3	20	
2-Hexanone	417479005014	29-NOV-2007	0.4619	0.4394	25.00	23.78	ug/L	-5	30	
1,3-Dichloropropane	417479005014	29-NOV-2007	0.5283	0.5354	25.00	25.34	ug/L	1	20	
Tetrachloroethene	417479005014	29-NOV-2007	0.3244	0.3553	25.00	27.38	ug/L	10	20	
Dibromochloromethane	417479005014	29-NOV-2007	0.3251	0.3231	25.00	24.85	ug/L	-1	20	
1,2-Dibromoethane	417479005014	29-NOV-2007	0.3292	0.3402	25.00	25.84	ug/L	3	20	
Chlorobenzene	417479005014	29-NOV-2007	1.0266	1.0509	25.00	25.59	ug/L	2	20	
1,1,1,2-Tetrachloroethane	417479005014	29-NOV-2007	0.2848	0.2989	25.00	26.24	ug/L	5	20	
Ethylbenzene	417479005014	29-NOV-2007	1.7639	1.8931	25.00	26.83	ug/L	7	20	
m,p-Xylenes	417479005014	29-NOV-2007	0.7075	0.7271	50.00	51.39	ug/L	3	20	
o-Xylene	417479005014	29-NOV-2007	0.6736	0.6999	25.00	25.98	ug/L	4	20	
Styrene	417479005014	29-NOV-2007	1.1478	1.2428	25.00	27.07	ug/L	8	20	
Bromoform	417479005014	29-NOV-2007	0.2211	0.2258	25.00	25.52	ug/L	2	20	
Isopropylbenzene	417479005014	29-NOV-2007	2.9179	2.8763	25.00	24.64	ug/L	-1	20	

00079

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	417479005014	29-NOV-2007	0.8983	0.9171	25.00	25.52	ug/L	2	20	
1,2,3-Trichloropropane	417479005014	29-NOV-2007	0.8195	0.8513	25.00	25.97	ug/L	4	20	
Propylbenzene	417479005014	29-NOV-2007	3.8823	4.2274	25.00	27.22	ug/L	9	20	
Bromobenzene	417479005014	29-NOV-2007	0.8518	0.8997	25.00	26.40	ug/L	6	20	
1,3,5-Trimethylbenzene	417479005014	29-NOV-2007	2.3014	2.4862	25.00	27.01	ug/L	8	20	
2-Chlorotoluene	417479005014	29-NOV-2007	2.7167	2.8533	25.00	26.26	ug/L	5	20	
4-Chlorotoluene	417479005014	29-NOV-2007	2.5834	2.6477	25.00	25.62	ug/L	2	20	
tert-Butylbenzene	417479005014	29-NOV-2007	1.9504	2.1250	25.00	27.24	ug/L	9	20	
1,2,4-Trimethylbenzene	417479005014	29-NOV-2007	2.2257	2.4795	25.00	27.85	ug/L	11	20	
sec-Butylbenzene	417479005014	29-NOV-2007	3.0786	3.3451	25.00	27.16	ug/L	9	20	
para-Isopropyl Toluene	417479005014	29-NOV-2007	2.3077	2.4249	25.00	26.27	ug/L	5	20	
1,3-Dichlorobenzene	417479005014	29-NOV-2007	1.6298	1.6705	25.00	25.62	ug/L	2	20	
1,4-Dichlorobenzene	417479005014	29-NOV-2007	1.6648	1.6994	25.00	25.52	ug/L	2	20	
n-Butylbenzene	417479005014	29-NOV-2007	2.1597	2.3396	25.00	27.08	ug/L	8	20	
1,2-Dichlorobenzene	417479005014	29-NOV-2007	1.5239	1.5833	25.00	25.97	ug/L	4	20	
1,2-Dibromo-3-Chloropropane	417479005014	29-NOV-2007	0.1990	0.1961	25.00	24.64	ug/L	-1	20	
1,2,4-Trichlorobenzene	417479005014	29-NOV-2007	0.7541	0.7782	25.00	25.80	ug/L	3	20	
Hexachlorobutadiene	417479005014	29-NOV-2007	0.3907	0.4463	25.00	28.55	ug/L	14	20	
Naphthalene	417479005014	29-NOV-2007	2.0102	2.1017	25.00	26.14	ug/L	5	20	
1,2,3-Trichlorobenzene	417479005014	29-NOV-2007	0.7281	0.7440	25.00	25.54	ug/L	2	20	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 200073 MSVOA Soil
EPA 8260B

Inst : MSVOA02 Run Name : QC420976 IDF : 1.0
Seqnum : 417508786008.3 File : blj08 Time : 19-DEC-2007 12:10
Cal : 417479005001 Caldate : 28-NOV-2007 Caltype : SOIL
Standards: S7881 (5000X), S7883 (5000X), S7785 (5000X), S7590 (25000X), S7801 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6121	0.6591	50.00	48.57	ug/L	-3	20	0.0500	u
Chloromethane	1.2192	1.2234	50.00	50.17	ug/L	0	20	0.1000	u
Vinyl Chloride	0.9037	0.8219	50.00	45.47	ug/L	-9	20	0.0500	u
Bromomethane	0.4469	0.4769	50.00	53.36	ug/L	7	20	0.0500	u
Chloroethane	0.5080	0.5047	50.00	49.68	ug/L	-1	20	0.0500	u
Trichlorofluoromethane	0.8426	0.8473	50.00	50.28	ug/L	1	20	0.0500	u
Acetone	0.2975	0.4031	50.00	67.75	ug/L	**35**	30	0.0500	c+ u ***
Freon 113	0.5107	0.5310	50.00	51.99	ug/L	4	20	0.0500	u
1,1-Dichloroethene	0.4371	0.4903	50.00	56.09	ug/L	12	20	0.0500	u
Methylene Chloride	0.7851	0.7925	50.00	50.47	ug/L	1	20	0.0500	u
Carbon Disulfide	2.0423	1.8400	50.00	45.05	ug/L	-10	20	0.0500	u
MTBE	1.4505	1.6000	50.00	55.15	ug/L	10	20	0.0500	u
trans-1,2-Dichloroethene	0.5124	0.5802	50.00	56.61	ug/L	13	20	0.0500	u
Vinyl Acetate	1.4768	1.4615	50.00	49.48	ug/L	-1	30	0.0500	u
1,1-Dichloroethane	1.0614	1.1730	50.00	55.26	ug/L	11	20	0.1000	u
2-Butanone	0.4935	0.5486	50.00	55.58	ug/L	11	30	0.0500	u
cis-1,2-Dichloroethene	0.5621	0.6487	50.00	57.71	ug/L	15	20	0.0500	u
2,2-Dichloropropane	0.6701	0.8287	50.00	61.83	ug/L	**24**	20	0.0500	c+ u ***
Chloroform	0.9179	1.0323	50.00	56.23	ug/L	12	20	0.0500	u
Bromochloromethane	0.3091	0.3378	50.00	54.64	ug/L	9	20	0.0500	u
1,1,1-Trichloroethane	0.6107	0.7477	50.00	61.21	ug/L	**22**	20	0.0500	c+ u ***
1,1-Dichloropropene	0.4299	0.4850	50.00	56.42	ug/L	13	20	0.0500	u
Carbon Tetrachloride	0.3128	0.3656	50.00	58.44	ug/L	17	20	0.0500	u
1,2-Dichloroethane	0.4595	0.4807	50.00	52.31	ug/L	5	20	0.0500	u
Benzene	1.3922	1.4832	50.00	53.27	ug/L	7	20	0.0500	u
Trichloroethene	0.3251	0.3698	50.00	56.86	ug/L	14	20	0.0500	u
1,2-Dichloropropane	0.4261	0.4430	50.00	51.97	ug/L	4	20	0.0500	u
Bromodichloromethane	0.4327	0.4826	50.00	55.77	ug/L	12	20	0.0500	u
Dibromomethane	0.2406	0.2528	50.00	52.52	ug/L	5	20	0.0500	u
4-Methyl-2-Pentanone	0.6137	0.6292	50.00	51.26	ug/L	3	30	0.0500	u
cis-1,3-Dichloropropene	0.5616	0.6142	50.00	54.69	ug/L	9	20	0.0500	u
Toluene	0.9256	0.9585	50.00	51.77	ug/L	4	20	0.0500	u
trans-1,3-Dichloropropene	0.4958	0.5103	50.00	51.47	ug/L	3	20	0.0500	u
1,1,2-Trichloroethane	0.1702	0.1852	50.00	54.40	ug/L	9	20	0.0500	u
2-Hexanone	0.4619	0.4741	50.00	51.32	ug/L	3	30	0.0500	u
1,3-Dichloropropane	0.5283	0.5622	50.00	53.21	ug/L	6	20	0.0500	u
Tetrachloroethene	0.3244	0.3564	50.00	54.93	ug/L	10	20	0.0500	u
Dibromochloromethane	0.3251	0.3586	50.00	55.15	ug/L	10	20	0.0500	u
1,2-Dibromoethane	0.3292	0.3585	50.00	54.46	ug/L	9	20	0.0500	u
Chlorobenzene	1.0266	1.0217	50.00	49.76	ug/L	0	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.2848	0.3176	50.00	55.77	ug/L	12	20	0.0500	u
Ethylbenzene	1.7639	1.7985	50.00	50.98	ug/L	2	20	0.0500	u
m,p-Xylenes	0.7075	0.6582	100.0	93.03	ug/L	-7	20	0.0500	u
o-Xylene	0.6736	0.6381	50.00	47.37	ug/L	-5	20	0.0500	u
Styrene	1.1478	1.1291	50.00	49.19	ug/L	-2	20	0.0500	u
Bromoform	0.2211	0.2507	50.00	56.69	ug/L	13	20	0.1000	u
Isopropylbenzene	2.9179	2.8359	50.00	48.60	ug/L	-3	20	0.0500	u

ADOA1

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8983	0.9933	50.00	55.29	ug/L	11	20	0.3000	u
1,2,3-Trichloropropane	0.8195	0.8800	50.00	53.69	ug/L	7	20	0.0500	u
Propylbenzene	3.8823	4.0955	50.00	52.74	ug/L	5	20	0.0500	u
Bromobenzene	0.8518	0.8838	50.00	51.88	ug/L	4	20	0.0500	u
1,3,5-Trimethylbenzene	2.3014	2.5163	50.00	54.67	ug/L	9	20	0.0500	u
2-Chlorotoluene	2.7167	2.7886	50.00	51.32	ug/L	3	20	0.0500	u
4-Chlorotoluene	2.5834	2.5916	50.00	50.16	ug/L	0	20	0.0500	u
tert-Butylbenzene	1.9504	2.1138	50.00	54.19	ug/L	8	20	0.0500	u
1,2,4-Trimethylbenzene	2.2257	2.5485	50.00	57.25	ug/L	15	20	0.0500	u
sec-Butylbenzene	3.0786	3.3688	50.00	54.71	ug/L	9	20	0.0500	u
para-Isopropyl Toluene	2.3077	2.5738	50.00	55.77	ug/L	12	20	0.0500	u
1,3-Dichlorobenzene	1.6298	1.6264	50.00	49.89	ug/L	0	20	0.0500	u
1,4-Dichlorobenzene	1.6648	1.6313	50.00	48.99	ug/L	-2	20	0.0500	u
n-Butylbenzene	2.1597	2.5922	50.00	60.01	ug/L	20	20	0.0500	u
1,2-Dichlorobenzene	1.5239	1.5073	50.00	49.45	ug/L	-1	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1990	0.1919	50.00	48.23	ug/L	-4	20	0.0500	u
1,2,4-Trichlorobenzene	0.7541	0.8362	50.00	55.44	ug/L	11	20	0.0500	u
Hexachlorobutadiene	0.3907	0.4464	50.00	57.12	ug/L	14	20	0.0500	u
Naphthalene	2.0102	2.0306	50.00	50.51	ug/L	1	20	0.0500	u
1,2,3-Trichlorobenzene	0.7281	0.7801	50.00	53.57	ug/L	7	20	0.0500	u
Dibromofluoromethane	0.4858	0.5246	50.00	54.00	ug/L	8	20	0.0500	u
1,2-Dichloroethane-d4	0.3265	0.3310	50.00	50.68	ug/L	1	20	0.0500	u
Toluene-d8	1.2149	1.1820	50.00	48.65	ug/L	-3	20	0.0500	u
Bromofluorobenzene	1.0939	1.1172	50.00	51.07	ug/L	2	20	0.0500	u
Trifluorotoluene	0.5137	0.4937	50.00	48.06	ug/L	-4	20	0.0500	u

ISTD (ICAL bks09)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	327557	390129	19.10	11.41	11.41	0.00
1,4-Difluorobenzene	511170	661666	29.44	12.62	12.62	0.00
Chlorobenzene-d5	528102	690393	30.73	17.18	17.18	0.00
1,4-Dichlorobenzene-d4	278657	347179	24.59	20.56	20.56	0.00

Analyst: WNH Date: 12/28/07 Reviewer: SJD Date: 12/28/07

+=high bias c=CCV u=use

417508786008.3

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 417508786

Date : 12/19/07
Sequence : MSVOA02 blj

Reference : bks09
Analyzed : 11/28/07 21:43

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	327557	11.41	511170	12.62	528102	17.18	278657	20.56
		LOWER LIMIT	163779	10.91	255585	12.12	264051	16.68	139329	20.06
		UPPER LIMIT	655114	11.91	1022340	13.12	1056204	17.68	557314	21.06
008	CCV/LCS	QC420976	390129	11.41	661666	12.62	690393	17.18	347179	20.56
009	BLANK	QC420977	356137	11.41	599811	12.62	636262	17.18	306715	20.56
010	PREPBLK	QC421000	379630	11.40	675073	12.61	716219	17.19	395046	20.57
011	SAMPLE	200006-006	325766	11.40	541583	12.61	605959	17.18	314565	20.56
012	SAMPLE	200006-011	330695	11.40	544633	12.61	602449	17.18	323723	20.56
013	SAMPLE	200006-013	360325	11.40	622686	12.61	686354	17.19	381980	20.63
014	SAMPLE	200006-006	566344	11.39	1077337 *	12.61	878143	17.24	397735	20.61
015	SAMPLE	200006-011	367412	11.40	627646	12.61	687542	17.18	380378	20.56
016	SAMPLE	200006-003	369937	11.41	644433	12.62	641262	17.18	256224	20.56
017	SAMPLE	200006-007	355339	11.41	618580	12.62	606452	17.18	236985	20.56
018	SAMPLE	200006-008	345927	11.41	597748	12.63	573155	17.19	212203	20.56
019	SAMPLE	200006-012	355834	11.40	621708	12.61	675257	17.19	369108	20.56
020	SAMPLE	200006-006	368788	11.40	651052	12.61	694679	17.19	383949	20.56
021	SAMPLE	199986-009	358111	11.42	626279	12.62	520766	17.18	140688	20.56
022	SAMPLE	199986-011	347714	11.42	609514	12.62	568914	17.19	197917	20.56
023	SAMPLE	199986-012	347740	11.42	614783	12.63	573604	17.19	196863	20.56
024	SAMPLE	199987-052	338914	11.42	610879	12.62	628760	17.19	277473	20.56
025	MSS	200073-001	307198	11.41	505099	12.62	569044	17.18	333281	20.56
027	MS	QC421072	388958	11.42	653000	12.63	692091	17.19	363315	20.56
028	MSD	QC421073	422151	11.42	691362	12.63	713703	17.19	373469	20.56
034	SAMPLE	199755-003	366145	11.42	609525	12.63	633526	17.20	308705	20.56
035	SAMPLE	199755-004	365322	11.42	625873	12.63	651870	17.19	321014	20.56

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 417479005

Instrument : MSVOA02
Method : EPA 8260B
Begun : 11/28/07 15:25
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	bks01	TUN	BFB			11/28/07 15:25	1.0	1	
002	bks02	X	IB			11/28/07 17:54	1.0	2	
003	bks03	X	IB			11/28/07 18:27	1.0	2	
004	bks04	IB	CALIB IB			11/28/07 19:00	1.0	2	
005	bks05	ICAL	2.5PPB			11/28/07 19:32	1.0	3 4 2	
006	bks06	ICAL	5PPB			11/28/07 20:05	1.0	3 4 2	
007	bks07	ICAL	10PPB			11/28/07 20:38	1.0	3 4 2	
008	bks08	ICAL	20PPB			11/28/07 21:11	1.0	5 6 2	
009	bks09	ICAL	50PPB			11/28/07 21:43	1.0	5 6 2	
010	bks10	ICAL	60PPB			11/28/07 22:16	1.0	5 6 2	
011	bks11	ICAL	75PPB			11/28/07 22:48	1.0	5 6 2	
012	bks12	ICAL	100PPB			11/28/07 23:21	1.0	5 6 2	
013	bks13	ICV	25PPB			11/28/07 23:54	1.0	7 2	
014	bks14	ICV	25PPB			11/29/07 00:27	1.0	8 9 2	
015	bks15	X	IB			11/29/07 01:00	1.0	2	
016	bks16	X	IB			11/29/07 01:33	1.0	2	

Analyst: BO Date: 11/29/07 Reviewer: LW Date: 11/29/07

Standards used: 1=S6497 2=S7366 3=S7638 4=S7639 5=S7637 6=S7625 7=S7652 8=S7629 9=S7498

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 417508786

Instrument : MSVOA02
Method : EPA 8260B

Begun : 12/19/07 07:46
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	blj01	X	IB				12/19/07 07:46	1.0	1	
002	blj02	TUN	BFB				12/19/07 08:21	1.0	2	
003	blj03	CCV	30PPB				12/19/07 08:40	1.0	3 4 5 1	
004	blj04	X	QC420930		Water	133002	12/19/07 09:28	1.0	6 7 8 1	
005	blj05	BS	QC420930		Water	133002	12/19/07 10:01	1.0	6 7 8 1	
006	blj06	BSD	QC420931		Water	133002	12/19/07 11:04	1.0	6 7 8 1	
007	blj07	TUN	BFB				12/19/07 11:51	1.0	2	
008	blj08	CCV/LCS	QC420976		Soil	133012	12/19/07 12:10	1.0	6 7 8 9 1	
009	blj09	BLANK	QC420977		Soil	133012	12/19/07 12:43	1.0	1	
010	blj10	PREPBLK	QC421000	M	Soil	133012	12/19/07 13:17	25.0	9 1	
011	blj11	SAMPLE	200006-006	M	Soil	133012	12/19/07 13:50	50.0	9 1	
012	blj12	SAMPLE	200006-011	M	Soil	133012	12/19/07 14:23	40.0	9 1	
013	blj13	SAMPLE	200006-013	M	Soil	133012	12/19/07 14:56	25.0	9 1	
014	blj14	SAMPLE	200006-006	M	Soil	133012	12/19/07 15:29	25.0	9 1	
015	blj15	SAMPLE	200006-011	M	Soil	133012	12/19/07 16:02	25.0	9 1	
016	blj16	SAMPLE	200006-003		Soil	133012	12/19/07 16:34	1.22	1	
017	blj17	SAMPLE	200006-007		Soil	133012	12/19/07 17:07	1.042	1	
018	blj18	SAMPLE	200006-008		Soil	133012	12/19/07 17:40	1.22	1	
019	blj19	SAMPLE	200006-012	M	Soil	133012	12/19/07 18:13	25.0	9 1	
020	blj20	SAMPLE	200006-006	M	Soil	133012	12/19/07 18:47	25.0	9 1	
021	blj21	SAMPLE	199986-009		Soil	133012	12/19/07 19:20	1.042	1	
022	blj22	SAMPLE	199986-011		Soil	133012	12/19/07 19:53	1.064	1	
023	blj23	SAMPLE	199986-012		Soil	133012	12/19/07 20:26	0.9804	1	
024	blj24	SAMPLE	199987-052		Soil	133012	12/19/07 20:59	1.0	1	1:MTLNCL=320
025	blj25	MSS	200073-001	M	Soil	133012	12/19/07 21:32	1000	1 9	
027	blj27	MS	QC421072	M	Soil	133012	12/19/07 22:05	1000	6 7 8 9 1	
028	blj28	MSD	QC421073	M	Soil	133012	12/19/07 22:38	1000	6 7 8 9 1	
029	blj29	X	IB				12/19/07 23:11	1.0	1	
030	blj30	X	IB				12/19/07 23:44	1.0	1	
031	blj31	X	IB				12/20/07 00:17	1.0	1	
032	blj32	X	2A				12/20/07 00:50	1.0	1	
033	blj33	X	2B				12/20/07 01:23	1.0	1	
034	blj34	SAMPLE	199755-003		Soil	133012	12/20/07 01:56	1.0	1	
035	blj35	SAMPLE	199755-004		Soil	133012	12/20/07 02:29	1.0	1	

Analyst: BO Date: 12/20/07 Reviewer: LW Date: 12/20/07

Standards used: 1=S7801 2=S7916 3=S7803 4=S7625 5=S7433 6=S7881 7=S7883 8=S7785 9=S7590

00085

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 12/19/07

Prepped by: ZA

133012

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	199990-1	10.0	A	X		500X Misc'll.	Put 8K → MS12	
2	199987-52	5.0	↓		2	RR1X Meth Added Sat'd H2O More		
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23	199755-3	5.0	A		2	Storage Blanks		
24	↓ -4	5.0	B		1	↓ Vial A is cracked		
25								
26	PREP BLK MeOH	0.2	—	X	2	25X 12/19/07		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	200006-3	4.1	B		2	MS 1X, Acr		
2	-6	5.8	B	X		MS 50X, CLS, TCE, PCE 2CR low level		
3	-7	4.8	B			MS 1X, Acr		
4	-8	4.1	↓			MS 1X, Acr		
5	-11	4.6	B	X		MS 40X, CLS, TCE 2CR, Acr		
6	-12	4.1	B	X		MS 25X, CLS 2CR, Acr		
7	199986-11	4.7	↓					
8	↓ -12	5.1	↓					
9	↓ -9	4.8	D			RR1X ES ↓		
10	200006-6	0.200	B			MS 25X, OP		
11	-12	4.7	C			MS 25X confirm conc?		
	~~200073-001~~	~~0.02~~	A	~~X~~		~~12/19/07~~		
	200073-001	0.005	A	X	2	MSS/MS/MSD		
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

BK1860

5035 Prep Log

Date & initial	Sample ID	Soil wt. (g)	MeOH vol. (mL)	MeOH Lot #	Surrogate std. #	Surrogate std. vol. (mL)	Comments
11/19/07 ~~ZLH~~	199335-012C	5.2	5.2	CU319	87590	0.0052	
11/30/07 ZE	BLank	5.0	5.0	CU319	57590	0.005	
↓	199484-2D	4.5	4.5	↓	↓	0.0045	
↓	↓ -3 ↓	5.1	5.1	↓	↓	0.0051	
12/11/07 cmj	Blank	5.0	5.0	CU319	57590	0.005	
↓	199721-3A	4.9	4.9	↓	↓	0.0049	
↓	↓ -5 ↓	5.2	5.2	↓	↓	0.0052	
12/13/07 ~~ZLH~~	Blank	5.0	5.0	CU319	57590	0.005	
↓	199721-2B	4.7	4.7	CU319	↓	0.0047	
12/14/07 ZE	BLank see	on Page	#25	of MS VOA	Extraction	Log Book	# BK23.
↓	199951-10B	4.5	4.5	CU319	57590	0.0045	
12/14/07 Acm	199951-012B	6.1	6.1	CU319	57590	0.0061	
12/17/07 ZE	BLank	5.0	5.0	CU319	57590	0.005	
↓	199977-2B	3.9	3.9	↓	↓	0.0039	
12/19/07 ZE	BLank	5.0	5.0	CT981	57590	0.005	
↓	200006-6B	5.8	5.8	↓	↓	0.0058	
↓	↓ -11 ↓	4.6	4.6	↓	↓	0.0046	
↓	↓ -12 ↓	4.1	4.1	↓	↓	0.0041	
12/21/07 Acm	200006-12	4.1	4.1	CT981	57590	0.0041	Repeat of above
12/19/07 ~~ZLH~~	200073-001A	3.9	3.9	CT981	57590	0.0039	
12/20/07 ZE	BLank	5.0	5.0	CT981	57590	0.005	
↓	200089-4B	5.3	5.3	↓	↓	0.0053	

Continued on Page

8270-SIM
Soil

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065S0100[5.5]	Batch#:	133152
Lab ID:	200073-001	Sampled:	12/19/07
Matrix:	Soil	Received:	12/19/07
Units:	ug/Kg	Prepared:	12/26/07
Basis:	dry	Analyzed:	12/27/07
Diln Fac:	100.0		

Moisture: 35%

Analyte	Result	RL	MDL
Naphthalene	890 J	1,500	210
2-Methylnaphthalene	240 J	1,500	220
Acenaphthylene	500 J	1,500	200
Acenaphthene	2,300	1,500	290
Fluorene	1,700	1,500	260
Phenanthrene	3,500	1,500	250
Anthracene	670 J	1,500	190
Fluoranthene	7,100	1,500	270
Pyrene	9,200	1,500	240
Benzo(a)anthracene	1,800	1,500	220
Chrysene	3,100	1,500	220
Benzo(b)fluoranthene	3,600	1,500	250
Benzo(k)fluoranthene	750 J	1,500	380
Benzo(a)pyrene	2,600	1,500	170
Indeno(1,2,3-cd)pyrene	930 J	1,500	220
Dibenz(a,h)anthracene	ND	1,500	210
Benzo(g,h,i)perylene	1,400 J	1,500	210

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	23-120
2-Fluorobiphenyl	DO	30-115
Terphenyl-d14	DO	18-137

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

15.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC421563	Batch#:	133152
Matrix:	Soil	Prepared:	12/26/07
Units:	ug/Kg	Analyzed:	12/26/07
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.72
2-Methylnaphthalene	ND	5.0	0.60
Acenaphthylene	ND	5.0	0.64
Acenaphthene	ND	5.0	0.57
Fluorene	ND	5.0	0.59
Phenanthrene	ND	5.0	0.71
Anthracene	ND	5.0	0.70
Fluoranthene	ND	5.0	0.94
Pyrene	ND	5.0	0.77
Benzo(a)anthracene	ND	5.0	0.87
Chrysene	ND	5.0	0.75
Benzo(b)fluoranthene	ND	5.0	0.66
Benzo(k)fluoranthene	ND	5.0	0.67
Benzo(a)pyrene	ND	5.0	0.54
Indeno(1,2,3-cd)pyrene	ND	5.0	0.60
Dibenz(a,h)anthracene	ND	5.0	0.50
Benzo(g,h,i)perylene	ND	5.0	0.50

Surrogate	%REC	Limits
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	67	30-115
Terphenyl-d14	74	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

16.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC421564	Batch#:	133152
Matrix:	Soil	Prepared:	12/26/07
Units:	ug/Kg	Analyzed:	12/26/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.21	22.36	67	31-137
Pyrene	33.21	23.54	71	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	72	23-120
2-Fluorobiphenyl	72	30-115
Terphenyl-d14	76	18-137

17.0

CURTIS & TOMPKINS DFTPP TUNE FOR 200073 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517459945008 File : ukf08 Time : 15-NOV-2007 20:56

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	68072	43.09	
68	< 2% of mass 69	421	0.63	
69		67283		
70	< 2% of mass 69	98	0.15	
127	40% - 60% of mass 198	73510	46.53	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	10284	6.51	
275	10% - 30% of mass 198	24143	15.28	
365	> 1% of mass 198	1893	1.20	
441	Present, < mass 443	12549	74.08	
442	> 40% and < 100% of mass 198	85962	54.41	
443	17% - 23% of mass 442	16940	19.71	

Analyst: LLH Date: 11/16/07 Reviewer: LW Date: 11/19/07

517459945008

CURTIS & TOMPKINS DFTPP TUNE FOR 200073 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 517520492001 File : ulr01 Time : 27-DEC-2007 10:52

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	24853	49.90	
68	< 2% of mass 69	27	0.13	
69		20938		
70	< 2% of mass 69	138	0.66	
127	40% - 60% of mass 198	21982	44.14	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	3338	6.70	
275	10% - 30% of mass 198	8200	16.46	
365	> 1% of mass 198	1207	2.42	
441	Present, < mass 443	3392	76.22	
442	> 40% and < 100% of mass 198	23757	47.70	
443	17% - 23% of mass 442	4450	18.73	

Analyst: JGM Date: 12/27/07 Reviewer: LW Date: 12/27/07

517520492001

CURTIS & TOMPKINS DFTPP TUNE FOR 200073 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50NG IDF : 1.0
Seqnum : 537440171003 File : wk103 Time : 01-NOV-2007 17:47

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	108900	49.98	
68	< 2% of mass 69	0	0.00	
69		110746		
70	< 2% of mass 69	324	0.29	
127	40% - 60% of mass 198	101917	46.77	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	14517	6.66	
275	10% - 30% of mass 198	43760	20.08	
365	> 1% of mass 198	4656	2.14	
441	Present, < mass 443	27619	74.79	
442	> 40% and < 100% of mass 198	188173	86.36	
443	17% - 23% of mass 442	36930	19.63	

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

537440171003

CURTIS & TOMPKINS DFTPP TUNE FOR 200073 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 537441645001 File : wk201 Time : 02-NOV-2007 16:45

Standards: S7320

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	105565	48.05	
68	< 2% of mass 69	0	0.00	
69		110773		
70	< 2% of mass 69	460	0.42	
127	40% - 60% of mass 198	100557	45.77	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	14900	6.78	
275	10% - 30% of mass 198	43672	19.88	
365	> 1% of mass 198	4503	2.05	
441	Present, < mass 443	29264	73.39	
442	> 40% and < 100% of mass 198	200314	91.18	
443	17% - 23% of mass 442	39872	19.90	

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

537441645001

CURTIS & TOMPKINS DFTPP TUNE FOR 200073 MSSIM Soil
EPA 8270C

Inst : MSBNA04 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 537519204001 File : wlq01 Time : 26-DEC-2007 13:24

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	73238	54.30	
68	< 2% of mass 69	0	0.00	
69		75856		
70	< 2% of mass 69	237	0.31	
127	40% - 60% of mass 198	70309	52.13	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	9579	7.10	
275	10% - 30% of mass 198	28840	21.38	
365	> 1% of mass 198	5108	3.79	
441	Present, < mass 443	18108	75.62	
442	> 40% and < 100% of mass 198	123053	91.24	
443	17% - 23% of mass 442	23946	19.46	

Analyst: JGM Date: 12/27/07 Reviewer: LW Date: 12/27/07

537519204001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 517459945001
Units : ug/mL

Name : 2PAHSIM
Date : 15-NOV-2007 21:21
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ukf09	517459945009	ICAL1	15-NOV-2007 21:21	S7213
L2	ukf10	517459945010	ICAL2	15-NOV-2007 22:00	S7214
L3	ukf11	517459945011	ICAL3	15-NOV-2007 22:38	S7215
L4	ukf12	517459945012	ICAL4	15-NOV-2007 23:15	S7216
L5	ukf13	517459945013	ICAL5	15-NOV-2007 23:53	S7217
L6	ukf14	517459945014	ICAL6	16-NOV-2007 00:31	S7218
L7	ukf15	517459945015	ICAL7	16-NOV-2007 01:08	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.0837	1.1134	1.1488m	1.2063m	1.1607	1.1940m	1.1586m	AVRG		0.86789		1.1522	4	15	0.05	0.99	
2-Methylnaphthalene	0.5957	0.5928m	0.6005m	0.6478m	0.6555m	0.6398m	0.6620m	AVRG		1.59304		0.6277	5	15	0.05	0.99	
Acenaphthylene	1.7242	1.7276	1.8106	1.8695	1.9625	2.0581	2.0695	AVRG		0.52942		1.8889	8	15	0.05	0.99	
Acenaphthene	1.0602m	1.0143m	1.0488m	1.0434m	1.1100	1.1764	1.1480	AVRG		0.92091		1.0859	6	15	0.05	0.99	
Fluorene	1.1255	1.1357m	1.1330	1.1717m	1.1960	1.3180m	1.2009m	AVRG		0.84532		1.1830	6	15	0.05	0.99	
Phenanthrene	1.1971m	1.1610m	1.1748	1.1650	1.1848	1.2840	1.2029	AVRG		0.83636		1.1957	4	15	0.05	0.99	
Anthracene	1.0522m	1.0361m	1.1563m	1.1334m	1.2425m	1.1912m	1.1628m	AVRG		0.87778		1.1392	6	15	0.05	0.99	
Fluoranthene	1.2797	1.2283	1.2778	1.3151	1.3979m	1.4032	1.2751	AVRG		0.76276		1.3110	5	15	0.05	0.99	
Pyrene	1.7112m	1.6940	1.6355	1.6151	1.6172m	1.6657	1.6237	AVRG		0.60541		1.6518	2	15	0.05	0.99	
Benzo(a)anthracene	1.1837m	1.1142	1.2090	1.2390	1.2942	1.3013	1.3134	AVRG		0.80881		1.2364	6	15	0.05	0.99	
Chrysene	1.2945m	1.3543m	1.4241m	1.3775m	1.4285m	1.3741m	1.3233m	AVRG		0.73097		1.3681	4	15	0.05	0.99	
Benzo(b)fluoranthene	1.2367	1.2866	1.4233m	1.4760m	1.4262	1.5047m	1.4846m	AVRG		0.71151		1.4055	7	15	0.05	0.99	
Benzo(k)fluoranthene	1.4187m	1.6028m	1.6473m	1.6965m	1.7689m	1.6008m	1.4855m	AVRG		0.62386		1.6029	7	15	0.05	0.99	
Benzo(a)pyrene	1.0178	1.0467	1.1728	1.2639	1.3444	1.3382	1.3682	AVRG		0.81851		1.2217	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9493	1.1048	1.1953	1.3072	1.4318	1.4623	1.4142	AVRG		0.78963		1.2664	15	15	0.05	0.99	
Dibenz(a,h)anthracene	0.7786	0.8291	0.9147	1.0056	1.1284	1.1547	1.1260	AVRG		1.00909		0.9910	15	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9782	1.0884	1.1016	1.1420	1.2260	1.2529	1.2021	AVRG		0.87596		1.1416	8	15	0.05	0.99	
Nitrobenzene-d5	0.1862	0.1960	0.2017	0.2405	0.2586	0.2648	0.2680	AVRG		4.33215		0.2308	15	15	0.05	0.99	
2-Fluorobiphenyl	1.1579	1.1816	1.1834	1.1826	1.2291m	1.3209	1.2043m	AVRG		0.82744		1.2085	4	15	0.05	0.99	
Terphenyl-d14	1.1642	1.1943	1.2297m	1.2331	1.2216m	1.1783	1.1514	AVRG		0.83606		1.1961	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-6	0.200	-3	0.500	0	1.000	5	2.000	1	5.000	4	10.00	1
2-Methylnaphthalene	0.100	-5	0.200	-6	0.500	-4	1.000	3	2.000	4	5.000	2	10.00	5
Acenaphthylene	0.100	-9	0.200	-9	0.500	-4	1.000	-1	2.000	4	5.000	9	10.00	10
Acenaphthene	0.100	-2	0.200	-7	0.500	-3	1.000	-4	2.000	2	5.000	8	10.00	6
Fluorene	0.100	-5	0.200	-4	0.500	-4	1.000	-1	2.000	1	5.000	11	10.00	2
Phenanthrene	0.100	0	0.200	-3	0.500	-2	1.000	-3	2.000	-1	5.000	7	10.00	1
Anthracene	0.100	-8	0.200	-9	0.500	2	1.000	-1	2.000	9	5.000	5	10.00	2
Fluoranthene	0.100	-2	0.200	-6	0.500	-3	1.000	0	2.000	7	5.000	7	10.00	-3
Pyrene	0.100	4	0.200	3	0.500	-1	1.000	-2	2.000	-2	5.000	1	10.00	-2
Benzo(a)anthracene	0.100	-4	0.200	-10	0.500	-2	1.000	0	2.000	5	5.000	5	10.00	6
Chrysene	0.100	-5	0.200	-1	0.500	4	1.000	1	2.000	4	5.000	0	10.00	-3
Benzo(b)fluoranthene	0.100	-12	0.200	-8	0.500	1	1.000	5	2.000	1	5.000	7	10.00	6
Benzo(k)fluoranthene	0.100	-11	0.200	0	0.500	3	1.000	6	2.000	10	5.000	0	10.00	-7
Benzo(a)pyrene	0.100	-17	0.200	-14	0.500	-4	1.000	3	2.000	10	5.000	10	10.00	12
Indeno(1,2,3-cd)pyrene	0.100	-25	0.200	-13	0.500	-6	1.000	3	2.000	13	5.000	15	10.00	12
Dibenz(a,h)anthracene	0.100	-21	0.200	-16	0.500	-8	1.000	1	2.000	14	5.000	17	10.00	14
Benzo(g,h,i)perylene	0.100	-14	0.200	-5	0.500	-4	1.000	0	2.000	7	5.000	10	10.00	5
Nitrobenzene-d5	0.100	-19	0.200	-15	0.500	-13	1.000	4	2.000	12	5.000	15	10.00	16
2-Fluorobiphenyl	0.100	-4	0.200	-2	0.500	-2	1.000	-2	2.000	2	5.000	9	10.00	0
Terphenyl-d14	0.100	-3	0.200	0	0.500	3	1.000	3	2.000	2	5.000	-1	10.00	-4

LLH 11/16/07 : Manual integrations due to tailing/splitting/misintegrated peaks.

Analyst: LLH Date: 11/16/07 Reviewer: LW Date: 11/19/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

517459945001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200073 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 517459945001 Cal Date : 15-NOV-2007

ICV 517459945016 (ukf16 16-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1522	1.0491	1.000	0.9105	ug/mL	-9	20	m
2-Methylnaphthalene	0.6277	0.5426	1.000	0.8644	ug/mL	-14	20	
Acenaphthylene	1.8889	1.7441	1.000	0.9234	ug/mL	-8	20	
Acenaphthene	1.0859	0.9772	1.000	0.8999	ug/mL	-10	20	
Fluorene	1.1830	1.0736	1.000	0.9075	ug/mL	-9	20	
Phenanthrene	1.1957	1.1002	1.000	0.9201	ug/mL	-8	20	
Anthracene	1.1392	1.1318	1.000	0.9934	ug/mL	-1	20	m
Fluoranthene	1.3110	1.2640	1.000	0.9642	ug/mL	-4	20	
Pyrene	1.6518	1.6129	1.000	0.9765	ug/mL	-2	20	
Benzo(a)anthracene	1.2364	1.1670	1.000	0.9438	ug/mL	-6	20	
Chrysene	1.3681	1.3125	1.000	0.9594	ug/mL	-4	20	m
Benzo(b)fluoranthene	1.4055	1.2461	1.000	0.8866	ug/mL	-11	20	
Benzo(k)fluoranthene	1.6029	1.6575	1.000	1.034	ug/mL	3	20	m
Benzo(a)pyrene	1.2217	1.2018	1.000	0.9837	ug/mL	-2	20	
Indeno(1,2,3-cd)pyrene	1.2664	1.1508	1.000	0.9087	ug/mL	-9	20	
Dibenz(a,h)anthracene	0.9910	0.9516	1.000	0.9603	ug/mL	-4	20	
Benzo(g,h,i)perylene	1.1416	1.0967	1.000	0.9606	ug/mL	-4	20	

m=manual integration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200073 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA04
Calnum : 537440171001
Units : ug/mL

Name : 4PAHSIM
Date : 01-NOV-2007 18:18
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	wk104	537440171004	0.1/0.5UG/ML	01-NOV-2007 18:18	S7213
L2	wk105	537440171005	0.2/1.0UG/ML	01-NOV-2007 18:49	S7214
L3	wk106	537440171006	0.5/2.5UG/ML	01-NOV-2007 19:18	S7215
L4	wk107	537440171007	1.0/5.0UG/ML	01-NOV-2007 19:47	S7216
L5	wk108	537440171008	2.0/10.0UG/ML	01-NOV-2007 20:17	S7217
L6	wk109	537440171009	5.0/25.0UG/ML	01-NOV-2007 20:46	S7218
L7	wk110	537440171010	10.0/50.0UG/ML	01-NOV-2007 21:16	S7219

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1882	1.1822	1.1224	1.0669	0.9736	0.8930	0.8051	AVRG		0.96799		1.0331	14	15	0.05	0.99	
2-Methylnaphthalene	0.7746	0.7489m	0.7207m	0.6981	0.6472	0.6058	0.5571	AVRG		1.47297		0.6789	12	15	0.05	0.99	
Acenaphthylene	2.2522	2.1767	2.1313	2.0156	1.8836	1.6740	1.5649	AVRG		0.51101		1.9569	13	15	0.05	0.99	
Acenaphthene	1.2379m	1.2372m	1.1836m	1.1810m	1.1214	1.0153	0.9175	AVRG		0.88677		1.1277	11	15	0.05	0.99	
Fluorene	1.3591	1.3224	1.2474	1.2458	1.1951	1.0969	1.0255	AVRG		0.82430		1.2131	10	15	0.05	0.99	
Phenanthrene	1.3384	1.3512	1.3088	1.2458	1.1683	1.0410	0.9447	AVRG		0.83352		1.1997	13	15	0.05	0.99	
Anthracene	1.1857m	1.2148m	1.2071m	1.1428m	1.1071m	1.0113m	0.9488m	AVRG		0.89541		1.1168	9	15	0.05	0.99	
Fluoranthene	1.4727	1.4343	1.3947	1.3690	1.2783	1.1156	1.0420	AVRG		0.76868		1.3009	13	15	0.05	0.99	
Pyrene	1.8988	1.8415	1.7634	1.5911	1.4575	1.3300		AVRG		0.60715		1.6470	14	15	0.05	0.99	
Benzo(a)anthracene	1.2968	1.2735	1.2569	1.2499	1.1933	1.1159	1.0523	AVRG		0.82954		1.2055	8	15	0.05	0.99	
Chrysene	1.3916m	1.3858m	1.3784m	1.3333m	1.2516m	1.1095m	1.0613m	AVRG		0.78550		1.2731	11	15	0.05	0.99	
Benzo(b)fluoranthene	1.2222m	1.1676	1.1615	1.1564	1.0725	1.0652	1.0196	AVRG		0.89002		1.1236	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.3993m	1.3385m	1.3596m	1.3102m	1.2329m	1.1317m	1.0808m	AVRG		0.79070		1.2647	10	15	0.05	0.99	
Benzo(a)pyrene	1.0976m	1.0905	1.0952	1.1306	1.1063	1.0652	1.0121	AVRG		0.92135		1.0854	3	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.1659m	1.1249m	1.2095m	1.2590m	1.2275	1.2138	1.2149	AVRG		0.83179		1.2022	4	15	0.05	0.99	
Dibenz(a,h)anthracene	0.7484m	0.7445m	0.8486m	0.9052m	0.9093	0.9463	0.9494	AVRG		1.15671		0.8645	10	15	0.05	0.99	
Benzo(g,h,i)perylene	1.3748m	1.3011m	1.3105m	1.2788m	1.2160m	1.1465m	1.1039m	AVRG		0.80168		1.2474	8	15	0.05	0.99	
Nitrobenzene-d5	0.3394	0.3330	0.3240	0.3192	0.3109	0.3028	0.2842	AVRG		3.16228		0.3162	6	15	0.05	0.99	
2-Fluorobiphenyl	1.5511	1.5028	1.4240	1.3604	1.2750	1.1349	1.0713	AVRG		0.75110		1.3314	14	15	0.05	0.99	
Terphenyl-d14	1.2981	1.2363	1.1787	1.1206	1.0375	0.9517	0.8981	AVRG		0.90661		1.1030	13	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	15	0.200	14	0.500	9	1.000	3	2.000	-6	5.000	-14	10.00	-22
2-Methylnaphthalene	0.100	14	0.200	10	0.500	6	1.000	3	2.000	-5	5.000	-11	10.00	-18
Acenaphthylene	0.100	15	0.200	11	0.500	9	1.000	3	2.000	-4	5.000	-14	10.00	-20
Acenaphthene	0.100	10	0.200	10	0.500	5	1.000	5	2.000	-1	5.000	-10	10.00	-19
Fluorene	0.100	12	0.200	9	0.500	3	1.000	3	2.000	-1	5.000	-10	10.00	-15
Phenanthrene	0.100	12	0.200	13	0.500	9	1.000	4	2.000	-3	5.000	-13	10.00	-21
Anthracene	0.100	6	0.200	9	0.500	8	1.000	2	2.000	-1	5.000	-9	10.00	-15
Fluoranthene	0.100	13	0.200	10	0.500	7	1.000	5	2.000	-2	5.000	-14	10.00	-20
Pyrene	0.100	15	0.200	12	0.500	7	1.000	-3	2.000	-12	5.000	-19		
Benzo(a)anthracene	0.100	8	0.200	6	0.500	4	1.000	4	2.000	-1	5.000	-7	10.00	-13
Chrysene	0.100	9	0.200	9	0.500	8	1.000	5	2.000	-2	5.000	-13	10.00	-17
Benzo(b)fluoranthene	0.100	9	0.200	4	0.500	3	1.000	3	2.000	-5	5.000	-5	10.00	-9
Benzo(k)fluoranthene	0.100	11	0.200	6	0.500	8	1.000	4	2.000	-3	5.000	-11	10.00	-15
Benzo(a)pyrene	0.100	1	0.200	0	0.500	1	1.000	4	2.000	2	5.000	-2	10.00	-7
Indeno(1,2,3-cd)pyrene	0.100	-3	0.200	-6	0.500	1	1.000	5	2.000	2	5.000	1	10.00	1
Dibenz(a,h)anthracene	0.100	-13	0.200	-14	0.500	-2	1.000	5	2.000	5	5.000	9	10.00	10
Benzo(g,h,i)perylene	0.100	10	0.200	4	0.500	5	1.000	3	2.000	-3	5.000	-8	10.00	-11
Nitrobenzene-d5	0.100	7	0.200	5	0.500	2	1.000	1	2.000	-2	5.000	-4	10.00	-10
2-Fluorobiphenyl	0.100	17	0.200	13	0.500	7	1.000	2	2.000	-4	5.000	-15	10.00	-20
Terphenyl-d14	0.100	18	0.200	12	0.500	7	1.000	2	2.000	-6	5.000	-14	10.00	-19

LLH 11/02/07 : Manual integrations due to tailing, splitting or misidentified peaks.

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200073 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA04 Name : 4PAHSIM
Calnum : 537440171001 Cal Date : 01-NOV-2007

ICV 537441645002 (wk202 02-NOV-2007) stds: S7592

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0331	0.9989	1.000	0.9669	ug/mL	-3	20	
2-Methylnaphthalene	0.6789	0.6209	1.000	0.9146	ug/mL	-9	20	m
Acenaphthylene	1.9569	1.8610	1.000	0.9510	ug/mL	-5	20	
Acenaphthene	1.1277	1.0716	1.000	0.9503	ug/mL	-5	20	m
Fluorene	1.2131	1.1456	1.000	0.9443	ug/mL	-6	20	
Phenanthrene	1.1997	1.1602	1.000	0.9671	ug/mL	-3	20	
Anthracene	1.1168	1.1810	1.000	1.057	ug/mL	6	20	m
Fluoranthene	1.3009	1.2877	1.000	0.9898	ug/mL	-1	20	
Pyrene	1.6470	1.5573	1.000	0.9455	ug/mL	-5	20	
Benzo(a)anthracene	1.2055	1.1580	1.000	0.9606	ug/mL	-4	20	
Chrysene	1.2731	1.2789	1.000	1.005	ug/mL	0	20	m
Benzo(b)fluoranthene	1.1236	1.0684	1.000	0.9509	ug/mL	-5	20	
Benzo(k)fluoranthene	1.2647	1.1937	1.000	0.9438	ug/mL	-6	20	m
Benzo(a)pyrene	1.0854	1.0379	1.000	0.9563	ug/mL	-4	20	
Indeno(1,2,3-cd)pyrene	1.2022	1.0881	1.000	0.9050	ug/mL	-10	20	m
Dibenz(a,h)anthracene	0.8645	0.8085	1.000	0.9352	ug/mL	-6	20	m
Benzo(g,h,i)perylene	1.2474	1.1844	1.000	0.9495	ug/mL	-5	20	m

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 0.5/2.5 UG/ML IDF : 1.0
Seqnum : 517520492002.1 File : ulr02 Time : 27-DEC-2007 11:22
Cal : 517459945001 Caldate : 15-NOV-2007
Standards: S7215

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1522	1.1318	0.5000	0.4911	ug/mL	-2	20	0.0500	
2-Methylnaphthalene	0.6277	0.6162	0.5000	0.4908	ug/mL	-2	20	0.0500	
Acenaphthylene	1.8889	1.7428	0.5000	0.4613	ug/mL	-8	20	0.0500	
Acenaphthene	1.0859	1.0178	0.5000	0.4686	ug/mL	-6	20	0.0500	
Fluorene	1.1830	1.2046	0.5000	0.5091	ug/mL	2	20	0.0500	
Phenanthrene	1.1957	1.0881	0.5000	0.4550	ug/mL	-9	20	0.0500	
Anthracene	1.1392	0.9460	0.5000	0.4152	ug/mL	-17	20	0.0500	m
Fluoranthene	1.3110	1.2630	0.5000	0.4817	ug/mL	-4	20	0.0500	
Pyrene	1.6518	1.6780	0.5000	0.5079	ug/mL	2	20	0.0500	
Benzo(a)anthracene	1.2364	1.3083	0.5000	0.5291	ug/mL	6	20	0.0500	
Chrysene	1.3681	1.3080	0.5000	0.4781	ug/mL	-4	20	0.0500	m
Benzo(b)fluoranthene	1.4055	1.3605	0.5000	0.4840	ug/mL	-3	20	0.0500	
Benzo(k)fluoranthene	1.6029	1.4513	0.5000	0.4527	ug/mL	-9	20	0.0500	m
Benzo(a)pyrene	1.2217	1.1979	0.5000	0.4902	ug/mL	-2	20	0.0500	m
Indeno(1,2,3-cd)pyrene	1.2664	1.3420	0.5000	0.5298	ug/mL	6	20	0.0500	m
Dibenz(a,h)anthracene	0.9910	1.0542	0.5000	0.5319	ug/mL	6	20	0.0500	m
Benzo(g,h,i)perylene	1.1416	1.2084	0.5000	0.5293	ug/mL	6	20	0.0500	
Nitrobenzene-d5	0.2308	0.2516	0.5000	0.5450	ug/mL	9	20	0.0500	
2-Fluorobiphenyl	1.2085	1.2576	0.5000	0.5203	ug/mL	4	20	0.0500	
Terphenyl-d14	1.1961	1.0803	0.5000	0.4516	ug/mL	-10	20	0.0500	

Analyst: JGM Date: 12/27/07 Reviewer: LW Date: 12/28/07

m=manual integration

517520492002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200073 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA04 Run Name : CCV#5 IDF : 1.0
Seqnum : 537519204002.1 File : wlq02 Time : 26-DEC-2007 13:46
Cal : 537440171001 Caldate : 01-NOV-2007
Standards: S7217

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0331	1.0319	2.000	1.998	ug/mL	0	20	0.0500	
2-Methylnaphthalene	0.6789	0.6513	2.000	1.919	ug/mL	-4	20	0.0500	m
Acenaphthylene	1.9569	1.9645	2.000	2.008	ug/mL	0	20	0.0500	
Acenaphthene	1.1277	1.1194	2.000	1.985	ug/mL	-1	20	0.0500	
Fluorene	1.2131	1.2271	2.000	2.023	ug/mL	1	20	0.0500	
Phenanthrene	1.1997	1.1985	2.000	1.998	ug/mL	0	20	0.0500	
Anthracene	1.1168	1.1839	2.000	2.120	ug/mL	6	20	0.0500	m
Fluoranthene	1.3009	1.3187	2.000	2.027	ug/mL	1	20	0.0500	
Pyrene	1.6470	1.4914	2.000	1.811	ug/mL	-9	20	0.0500	
Benzo(a)anthracene	1.2055	1.2052	2.000	1.999	ug/mL	0	20	0.0500	
Chrysene	1.2731	1.3231	2.000	2.079	ug/mL	4	20	0.0500	m
Benzo(b)fluoranthene	1.1236	1.1258	2.000	2.004	ug/mL	0	20	0.0500	
Benzo(k)fluoranthene	1.2647	1.2606	2.000	1.994	ug/mL	0	20	0.0500	m
Benzo(a)pyrene	1.0854	1.1621	2.000	2.141	ug/mL	7	20	0.0500	m
Indeno(1,2,3-cd)pyrene	1.2022	1.3213	2.000	2.198	ug/mL	10	20	0.0500	m
Dibenz(a,h)anthracene	0.8645	1.0198	2.000	2.359	ug/mL	18	20	0.0500	m
Benzo(g,h,i)perylene	1.2474	1.1465	2.000	1.838	ug/mL	-8	20	0.0500	
Nitrobenzene-d5	0.3162	0.3502	2.000	2.215	ug/mL	11	20	0.0500	
2-Fluorobiphenyl	1.3314	1.3055	2.000	1.961	ug/mL	-2	20	0.0500	
Terphenyl-d14	1.1030	1.0852	2.000	1.968	ug/mL	-2	20	0.0500	

Analyst: JGM Date: 12/27/07 Reviewer: LW Date: 12/28/07

m=manual integration

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 517520492

Date : 12/27/07
Sequence : MSBNA02 ulr

Reference : ulr02
Analyzed : 12/27/07 11:22

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	2608	8.26	9896	9.84	5396	12.11	8516	14.07	6454	17.64	4760	19.62
		LOWER LIMIT	1304	7.76	4948	9.34	2698	11.61	4258	13.57	3227	17.14	2380	19.12
		UPPER LIMIT	5216	8.76	19792	10.34	10792	12.61	17032	14.57	12908	18.14	9520	20.12
002	CCV	0.5/2.5 UG/ML	2608	8.26	9896	9.84	5396	12.11	8516	14.07	6454	17.64	4760	19.62
003	SAMPLE	200111-003	1786	8.26	7513	9.84	4455	12.11	8336	14.07	6423	17.65	3537	19.63
004	SAMPLE	200111-004	2182	8.27	8734	9.84	5066	12.11	9011	14.07	6949	17.64	5943	19.63
005	SAMPLE	200111-005	2034	8.27	8496	9.84	5044	12.11	9052	14.07	6302	17.64	4857	19.63
006	SAMPLE	200181-001	1887	8.26	8628	9.84	9384	12.12	20083 *	14.08	16626 *	17.66	7988	19.65
007	SAMPLE	200181-002	3631	8.25	14875	9.83	8688	12.11	17506 *	14.07	14827 *	17.65	8824	19.64
008	SAMPLE	200181-003	3023	8.26	11426	9.84	7652	12.11	16968	14.07	13091 *	17.65	6218	19.65
009	SAMPLE	200139-002	2456	8.27	10307	9.84	6134	12.12	11330	14.07	6496	17.64	4119	19.63
010	MSS	200073-001	2454	8.25	14781	9.83	6174	12.11	10492	14.07	7953	17.64	5262	19.63
011	SAMPLE	200189-036	2694	8.26	10784	9.84	5904	12.11	9818	14.07	7222	17.64	4501	19.64
012	SAMPLE	200189-041	2108	8.26	8274	9.84	4248	12.12	7776	14.07	5618	17.65	3241	19.64
013	SAMPLE	200189-044	1920	8.27	7480	9.84	3890	12.12	7256	14.08	5360	17.65	2845	19.64
014	SAMPLE	200189-010	2129	8.27	7590	9.84	4781	12.12	9258	14.07	6660	17.65	2674	19.64
015	SAMPLE	200189-025	2057	8.27	7691	9.84	4147	12.12	7645	14.07	4886	17.65	2024 *	19.64
016	SAMPLE	200189-049	2089	8.25	8491	9.84	4415	12.11	7206	14.07	4439	17.65	2132 *	19.64
017	SAMPLE	200189-054	1673	8.27	6765	9.84	3575	12.12	5676	14.07	3133 *	17.64	1399 *	19.63
018	SAMPLE	200189-057	1807	8.25	7052	9.84	4013	12.12	6241	14.07	3407	17.65	1329 *	19.63
019	SAMPLE	200189-062	1924	8.27	7538	9.84	3950	12.12	6208	14.08	3762	17.65	1621 *	19.63

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 537519204

Date : 12/26/07
Sequence : MSBNA04 wlq

Reference : wlq02
Analyzed : 12/26/07 13:46

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	17103	5.00	67793	6.38	33398	8.51	47492	10.38	42638	13.86	41887	15.75
		LOWER LIMIT	8552	4.50	33897	5.88	16699	8.01	23746	9.88	21319	13.36	20944	15.25
		UPPER LIMIT	34206	5.50	135586	6.88	66796	9.01	94984	10.88	85276	14.36	83774	16.25
002	CCV	CCV#5	17103	5.00	67793	6.38	33398	8.51	47492	10.38	42638	13.86	41887	15.75
003	BLANK	QC421510	16889	5.00	69959	6.38	34459	8.51	51159	10.38	40923	13.86	43128	15.75
004	BS	QC421511	19380	4.99	78124	6.38	38539	8.51	57636	10.38	46234	13.85	49540	15.74
005	BSD	QC421512	19436	4.99	81753	6.38	40339	8.50	59133	10.37	47020	13.85	51931	15.74
006	BLANK	QC421563	15439	4.99	64451	6.37	32608	8.50	47072	10.37	37912	13.85	40353	15.74
007	LCS	QC421564	16950	4.99	70351	6.38	36566	8.50	54040	10.37	43254	13.85	46909	15.74
008	SAMPLE	200056-005	19111	4.99	81849	6.38	38060	8.52	52714	10.39	41147	13.90	46244	15.80
009	SAMPLE	200111-002	19350	4.99	79672	6.38	40047	8.50	56862	10.38	42118	13.87	44869	15.77
010	SAMPLE	200111-003	21362	4.99	89313	6.38	43720	8.51	65455	10.38	49176	13.86	54153	15.76
011	SAMPLE	200111-004	19681	4.99	81654	6.38	41570	8.50	60466	10.37	50527	13.85	53003	15.74
012	SAMPLE	200111-005	19716	4.99	83125	6.38	42004	8.50	63681	10.37	48568	13.85	49803	15.74
013	SAMPLE	200139-001	21140	4.99	85142	6.38	45450	8.50	68813	10.37	54918	13.85	60765	15.74
014	SAMPLE	200139-002	19756	4.99	73649	6.38	107867 *	8.50	63022	10.37	49556	13.85	54294	15.74
015	SAMPLE	200139-003	20752	4.99	87178	6.37	44544	8.50	68190	10.37	54350	13.85	57298	15.74
016	SAMPLE	200189-049	19742	4.99	81834	6.38	41143	8.50	61062	10.37	49165	13.85	52755	15.74
017	SAMPLE	200189-054	21168	4.99	87431	6.37	42163	8.50	63240	10.37	50122	13.85	52019	15.74
018	SAMPLE	200189-057	20971	4.99	86241	6.37	42676	8.50	62873	10.37	50177	13.85	53068	15.74
019	SAMPLE	200189-062	20353	4.99	86565	6.38	44155	8.50	64911	10.37	50527	13.85	54600	15.74
020	SAMPLE	200189-067	20788	4.99	87624	6.37	43346	8.50	64140	10.37	48873	13.85	52761	15.74
021	SAMPLE	200189-070	19998	4.99	85890	6.37	41593	8.50	62722	10.37	48268	13.85	48622	15.74

00106

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517459945

Instrument : MSBNA02 Begun : 11/15/07 09:45
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	ukf01	TUN	DFTPP/PEM 50UG/ML			11/15/07 09:45	1.0	1
002	ukf02	CCV	2/10UG/ML			11/15/07 10:07	1.0	2
003	ukf03	BLANK	QC415364	Water	131717	11/15/07 10:45	1.0	3
004	ukf04	BS	QC415365	Water	131717	11/15/07 11:22	1.0	3
005	ukf05	BSD	QC415366	Water	131717	11/15/07 12:01	1.0	3
006	ukf06	SAMPLE	199237-001	Water	131717	11/15/07 12:37	1.0	3
007	ukf07	TUN	DFTPP/PEM 50UG/ML			11/15/07 17:17	1.0	1
008	ukf08	TUN	DFTPP/PEM 50UG/ML			11/15/07 20:56	1.0	1
009	ukf09	ICAL	ICAL1			11/15/07 21:21	1.0	4
010	ukf10	ICAL	ICAL2			11/15/07 22:00	1.0	5
011	ukf11	ICAL	ICAL3			11/15/07 22:38	1.0	6
012	ukf12	ICAL	ICAL4			11/15/07 23:15	1.0	7
013	ukf13	ICAL	ICAL5			11/15/07 23:53	1.0	2
014	ukf14	ICAL	ICAL6			11/16/07 00:31	1.0	8
015	ukf15	ICAL	ICAL7			11/16/07 01:08	1.0	9
016	ukf16	ICV	ICV 1/10UG/ML			11/16/07 01:44	1.0	10

Standards used: 1=S7320 2=S7217 3=S7591 4=S7213 5=S7214 6=S7215 7=S7216 8=S7218 9=S7219 10=S7592

00107

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 517520492

Instrument : MSBNA02 Begun : 12/27/07 10:52
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	ulr01	TUN	DFTPP/PEM 50UG/ML			12/27/07 10:52	1.0	1
002	ulr02	CCV	0.5/2.5 UG/ML			12/27/07 11:22	1.0	2
003	ulr03	SAMPLE	200111-003	Water	133139	12/27/07 12:01	2.0	3
004	ulr04	SAMPLE	200111-004	Water	133139	12/27/07 12:43	1.0	3
005	ulr05	SAMPLE	200111-005	Water	133139	12/27/07 13:25	1.0	3
006	ulr06	SAMPLE	200181-001	Soil	133152	12/27/07 14:07	2.0	3
007	ulr07	SAMPLE	200181-002	Soil	133152	12/27/07 14:44	2.0	3
008	ulr08	SAMPLE	200181-003	Soil	133152	12/27/07 15:23	2.0	3
009	ulr09	SAMPLE	200139-002	Water	133139	12/27/07 16:05	10.0	3
010	ulr10	MSS	200073-001	Soil	133152	12/27/07 16:44	100.0	3
011	ulr11	SAMPLE	200189-036	Soil	133152	12/27/07 17:24	2.0	3
012	ulr12	SAMPLE	200189-041	Soil	133152	12/27/07 18:07	1.0	3
013	ulr13	SAMPLE	200189-044	Soil	133152	12/27/07 18:50	2.0	3
014	ulr14	SAMPLE	200189-010	Soil	133152	12/27/07 19:33	5.0	3
015	ulr15	SAMPLE	200189-025	Soil	133152	12/27/07 20:16	3.0	3
016	ulr16	SAMPLE	200189-049	Soil	133152	12/27/07 20:54	1.0	3
017	ulr17	SAMPLE	200189-054	Soil	133152	12/27/07 21:36	2.0	3
018	ulr18	SAMPLE	200189-057	Soil	133152	12/27/07 22:14	2.0	3
019	ulr19	SAMPLE	200189-062	Soil	133152	12/27/07 22:57	5.0	3

Standards used: 1=S7771 2=S7215 3=S7923

00108

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537440171

Instrument : MSBNA04 Begun : 11/01/07 16:11
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	wk101	CCV	RT CHECK			11/01/07 16:11	1.0	1	
002	wk102	CCV	RT CHECK			11/01/07 17:11	1.0	2	
003	wk103	TUN	DFTPP/PEM 50NG			11/01/07 17:47	1.0	3	
004	wk104	ICAL	0.1/0.5UG/ML			11/01/07 18:18	1.0	2	
005	wk105	ICAL	0.2/1.0UG/ML			11/01/07 18:49	1.0	4	
006	wk106	ICAL	0.5/2.5UG/ML			11/01/07 19:18	1.0	5	
007	wk107	ICAL	1.0/5.0UG/ML			11/01/07 19:47	1.0	6	
008	wk108	ICAL	2.0/10.0UG/ML			11/01/07 20:17	1.0	7	
009	wk109	ICAL	5.0/25.0UG/ML			11/01/07 20:46	1.0	8	
010	wk110	ICAL	10.0/50.0UG/ML			11/01/07 21:16	1.0	1	

Analyst: LLH Date: 11/02/07 Reviewer: LW Date: 11/05/07

Standards used: 1=S7219 2=S7213 3=S7320 4=S7214 5=S7215 6=S7216 7=S7217 8=S7218

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537441645

Instrument : MSBNA04 Begun : 11/02/07 16:45
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	wk201	TUN	DFTPP/PEM 50UG/ML			11/02/07 16:45	1.0	1
002	wk202	ICV	10/1UG/ML			11/02/07 17:17	1.0	2
003	wk203	MDL	190190-001	Water	118674	11/02/07 18:24	1.0	3
004	wk204	MDL	190190-002	Water	118674	11/02/07 18:53	1.0	3
005	wk205	MDL	190190-003	Water	118674	11/02/07 19:22	1.0	3
006	wk206	MDL	190190-004	Water	118674	11/02/07 19:51	1.0	3
007	wk207	MDL	190190-005	Water	118674	11/02/07 20:20	1.0	3
008	wk208	MDL	190190-006	Water	118674	11/02/07 20:49	1.0	3
009	wk209	MDL	190190-007	Water	118674	11/02/07 21:20	1.0	3
010	wk210	MDL	190190-008	Water	118674	11/02/07 21:49	1.0	3
011	wk211	MDL	187655-001	Soil	118707	11/02/07 22:18	1.0	3
012	wk212	MDL	187655-002	Soil	118707	11/02/07 22:47	1.0	3
013	wk213	MDL	187655-003	Soil	118707	11/02/07 23:16	1.0	3
014	wk214	MDL	187655-004	Soil	118707	11/02/07 23:46	1.0	3
015	wk215	MDL	187655-005	Soil	118707	11/03/07 00:16	1.0	3
016	wk216	MDL	187655-006	Soil	118707	11/03/07 00:44	1.0	3
017	wk217	MDL	187655-007	Soil	118707	11/03/07 01:14	1.0	3
018	wk218	MDL	187655-008	Soil	118707	11/03/07 01:42	1.0	3

Standards used: 1=S7320 2=S7592 3=S6891

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 537519204

Instrument : MSBNA04 Begun : 12/26/07 13:24
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	wlq01	TUN	DFTPP/PEM 50UG/ML			12/26/07 13:24	1.0	1	
002	wlq02	CCV	CCV#5			12/26/07 13:46	1.0	2	
003	wlq03	BLANK	QC421510	Water	133139	12/26/07 14:33	1.0	3	
004	wlq04	BS	QC421511	Water	133139	12/26/07 15:03	1.0	3	
005	wlq05	BSD	QC421512	Water	133139	12/26/07 15:33	1.0	3	
006	wlq06	BLANK	QC421563	Soil	133152	12/26/07 16:02	1.0	3	
007	wlq07	LCS	QC421564	Soil	133152	12/26/07 16:31	1.0	3	
008	wlq08	SAMPLE	200056-005	Water	133063	12/26/07 17:49	2.0	3	
009	wlq09	SAMPLE	200111-002	Water	133139	12/26/07 18:18	5.0	3	
010	wlq10	SAMPLE	200111-003	Water	133139	12/26/07 18:48	5.0	3	
011	wlq11	SAMPLE	200111-004	Water	133139	12/26/07 19:18	5.0	3	
012	wlq12	SAMPLE	200111-005	Water	133139	12/26/07 19:48	5.0	3	
013	wlq13	SAMPLE	200139-001	Water	133139	12/26/07 20:19	1.0	3	
014	wlq14	SAMPLE	200139-002	Water	133139	12/26/07 20:50	1.0	3	2:NAPH=33
015	wlq15	SAMPLE	200139-003	Water	133139	12/26/07 21:19	1.0	3	
016	wlq16	SAMPLE	200189-049	Soil	133152	12/26/07 21:51	10.0	3	
017	wlq17	SAMPLE	200189-054	Soil	133152	12/26/07 22:20	10.0	3	
018	wlq18	SAMPLE	200189-057	Soil	133152	12/26/07 22:50	10.0	3	
019	wlq19	SAMPLE	200189-062	Soil	133152	12/26/07 23:22	20.0	3	
020	wlq20	SAMPLE	200189-067	Soil	133152	12/26/07 23:51	5.0	3	
021	wlq21	SAMPLE	200189-070	Soil	133152	12/27/07 00:20	5.0	3	

Standards used: 1=S7771 2=S7217 3=S7923

02111

SAMPLE PREPARATION SUMMARY

Batch # : 133152
Started By : KML
Method : 3550B
Spike #1 ID : S7894
Prep Date : 26-DEC-2007
SOP Version : 8270_SIM_rv1
Spike #2 ID : S7829
Analysis : 8270-SIM
Finished By : KML
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
200073-001		Soil	30.1	2	1	0.06645		1				8270-SIM	See comment 1 below
200181-001		Soil	30.3	1	1	0.033		1				8270-SIM	
200181-002		Soil	30.35	1	1	0.03295		1				8270-SIM	
200181-003		Soil	30.5	1	1	0.03279		1				8270-SIM	
200181-004		Soil	30.07	1	1	0.03326		1				8270-SIM	
200189-010		Soil	30.05	1	1	0.03328		1				8270-SIM	
200189-025		Soil	30.41	1	1	0.03288		1				8270-SIM	
200189-030		Soil	30.01	1	1	0.03332		1				8270-SIM	
200189-036		Soil	30.05	1	1	0.03328		1				8270-SIM	
200189-041		Soil	30.48	1	1	0.03281		1				8270-SIM	
200189-044		Soil	30.1	1	1	0.03322		1				8270-SIM	
200189-049		Soil	30.37	1	1	0.03293		1				8270-SIM	
200189-054		Soil	30.11	1	1	0.03321		1				8270-SIM	
200189-057		Soil	30.16	1	1	0.03316		1				8270-SIM	
200189-062		Soil	30.13	1	1	0.03319		1				8270-SIM	
200189-067		Soil	30.18	1	1	0.03313		1				8270-SIM	
200189-070		Soil	30.25	1	1	0.03306		1				8270-SIM	
QC421563	BLANK	Soil	30.11	1	1	0.03321		1				8270-SIM	
QC421564	LCS	Soil	30.11	1	1	0.03321		1	1			8270-SIM	
QC421565	MS	Soil	30.14	2	1	0.06636		1	1			8270-SIM	would not concentrate further
QC421566	MSD	Soil	30.18	2	1	0.06627		1	1			8270-SIM	would not concentrate further

Comment 1: mss would not concentrate further

JGM 12/27/07 : MSS run at a dilution of at least 10X. MS/MSD is D.O.

Analyst: JGM Date: 12/27/07 Reviewer: LW Date: 12/28/07

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 44 **BK 2614**

LIMS Batch No: 133152
LIMS Analysis 8270-SIM
Date Extracted: 12/26/07

Extraction Method:
☒ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	200073-001	30.10	2.0		MSS would not conc. further
	200181-001	30.30	1.0		
	-002	30.35			
	-003	30.50			
5	-004	30.07			
	200189-010	30.05			
	-025	30.41			
	-030	30.01			
	-036	30.05			
10	-041	30.48			
	-044	30.10			
	-049	30.37			
	-054	30.11			
	-057	30.16			
15	-062	30.13			
	-067	30.18			
	-070	30.25			
	MB QC421563	30.11			
	LCS 4	30.11	↓		
20	MS 5	30.14	2.0		would not conc. further
	MSD 6	30.18	↓		↓
					DJT 12/26/07

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM47158737	KML 12/26/07
1.0 mL of surrogate solution was added to all samples	57894A	
1.0 mL of matrix spiking solution was added to all spikes	57829C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM47158	
Acetone	EM47142	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47073734	
Concentrated to final volumes as noted above	✓	
Relinquished to BNA department	✓	↓

12/26/07
Extraction Chemist / Date

Continued from page —
Continued on page —

12/26/07
Reviewed by / Date

Project SOIL ALIQUOT BKZ627

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
200088-001A	29.93	8270-SIM		
RFW 12/19/07 200090-001A	29.97			
200090-002A	30.24			
				RFW 12/19/07
200088-001A	50.05	TEHM		
			EEB	12/20/07
200112-001A	30.08	8270-SIM		
			EEB	12/20/07
200112-001A	30.16	P/P		MSS
MB	30.18	↓		EM47158737
LCS	30.06	8081		↓
MS	30.07	↓		200112-001A
MSD	30.05	↓		↓
LCS	30.19	PCB		EM47158737
MS	30.09	↓		200112-001A
MSD	30.12	↓		↓
			EEB	12/20/07
200090-001A	50.25	TEHM		
↓ -002	50.20	↓		
			EEB	12/20/07
200072-001A	50.08	TEHM		
↓ -002	50.02	↓		
			EEB	12/20/07
200073-001A	50.02	TEHM		MSS
MB	50.25			EM47158737
LCS	50.09			↓
MS	50.22			200073-001A
MSD	50.16	↓		↓
			EEB	12/20/07
200073-001A	30.10	8270-SIM	133152	MSS
MB	30.11			EM47158737
LCS	30.11			↓
MS	30.14			200073-001A
MSD	30.18	↓		↓
			EEB	12/20/07

Continued on Page

Signed

12/20/07
Date

Read and Understood By

Signed

Date

Project SOIL ALIQUOT

Continued from Page -

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH #	COMMENTS
200181-001 A	30.30	8270-SIM	133152	
-002	30.35			
-003	30.50			
-004	30.07			

KML 12/26/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL ALIQUOT BK 2627

Continued from Page -

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
~~200189-005~~				JSB 12/23/07
200189-010	30.05	8270-SIM	133152	aliased 199958-009
-025	30.41			comp 199959-007,009,023,026 all B @ 75g each
-030	30.01			199959-011,013,027,039 @ 75.0g all Water A each
-036	30.05			199958-011,013,041,043 @ 75.0g all Water A each
-041	30.48			199958-015,017,045,047 @ 75.0g all Water A each
-044	30.10			199958-019,049 @ 100.0g all Water A each
-049	30.37			199958-021,023,031,033 all Water A @ 75.0g each
-054	30.11			199958-025,027,035,037 all Water A @ 75.0g each
-057	30.16			199958-029,039 @ 75.0g all Water B each
-062	30.13			199958-051,053,061,063 @ 75g all Water A each
-067	30.18			199958-055,057,065,067 @ 75.0g all Water B each
-070	30.25			199958-059A,069A @ 75.0g each
			KML 12/26/07	
200189-005		P/P		comp 199958-001,003 all A 199959-017,019 @ 75g each
-009				comp 199958-005,007 & 199959-021 all A @ 75g each
-010				alias 199958-059A
-015				comp 199958-001,003,-031, -033 all A @ 75g each
-019				comp 199958-005,-035,-037 all A @ 75g each
-020				aliased 199959-039A
-025				comp 199959-011,015,-027 -029 all A @ 75g each
-030				comp 199959-011,013,-041 -043 all A @ 75g each
-031				alias 199959-015A
-036				comp 199958-011,013,041,043 all A @ 75g each
-041				comp 199958-015,017,045,047 all A @ 75g each
-044				comp 199958-019,049 all A @ 75g each
-049				comp 199958-021,023,031 MSD +033 all A @ 75g each
-054				comp 199958-025,027,035 -037 all A @ 75g each
-057				comp 199958-029,039 all B @ 150g each
-062				comp 199958-051,053,061 -063 all A @ 75g each
-067				comp 199958-055,057,065 -067 all A @ 75g each
-070				comp 199958-059,068 all A @ 75g each
MB		P/P		EM471587737
LCS		PCB		SFH 12/26/07 199 200189-049
MS				
MSD				

Continued on Page

Read and Understood By SFH 12/26/07

Signed Date Signed Date

Curtis & Tompkins, Ltd.

Metals
(Soil)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	200073	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065SD100[5.5]	Basis:	dry
Lab ID:	200073-001	Sampled:	12/19/07
Matrix:	Soil	Received:	12/19/07
Units:	mg/Kg		

Moisture: 35%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	9.6	0.77	0.040	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Arsenic	5.8	0.38	0.071	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Barium	1,400	7.2	0.62	20.00	133134	12/21/07	12/26/07	EPA 3050B	EPA 6010B
Beryllium	0.27	0.15	0.0030	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Cadmium	19	0.38	0.0038	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Chromium	97	0.38	0.024	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Cobalt	12	0.38	0.011	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Copper	180	0.38	0.040	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Lead	3,500	5.3	1.8	20.00	133134	12/21/07	12/26/07	EPA 3050B	EPA 6010B
Mercury	12	0.59	0.15	20.00	133051	12/20/07	12/20/07	METHOD	EPA 7471A
Molybdenum	3.9	0.38	0.032	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Nickel	82	0.38	0.026	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Selenium	ND	0.77	0.068	1.000	133134	12/21/07	12/26/07	EPA 3050B	EPA 6010B
Silver	11	0.38	0.026	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Thallium	ND	0.77	0.049	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Vanadium	49	0.38	0.030	1.000	133134	12/21/07	12/21/07	EPA 3050B	EPA 6010B
Zinc	4,100	29	1.0	20.00	133134	12/21/07	12/26/07	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.1

00118

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC421136	Batch#:	133051
Matrix:	Soil	Prepared:	12/20/07
Units:	mg/Kg	Analyzed:	12/20/07

Result	RL	MDL
ND	0.020	0.0052

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

8.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC421489	Batch#:	133134
Matrix:	Soil	Prepared:	12/21/07
Units:	mg/Kg	Analyzed:	12/21/07
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.027
Arsenic	0.050 J	0.25	0.050
Barium	ND	0.25	0.0047
Beryllium	ND	0.10	0.0021
Cadmium	ND	0.25	0.0027
Chromium	0.052 J	0.25	0.017
Cobalt	ND	0.25	0.0078
Copper	ND	0.25	0.028
Lead	ND	0.23	0.076
Molybdenum	ND	0.25	0.022
Nickel	0.050 J	0.25	0.018
Selenium	ND	0.50	0.078
Silver	ND	0.25	0.018
Thallium	0.084 J	0.50	0.034
Vanadium	ND	0.25	0.021
Zinc	ND	1.0	0.028

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	133051
Units:	mg/Kg	Prepared:	12/20/07
Basis:	as received	Analyzed:	12/20/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC421137	0.5000	0.4650	93	75-125		
BSD	QC421138	0.5000	0.5120	102	75-125	10	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	133134
Units:	mg/Kg	Prepared:	12/21/07
Basis:	as received	Analyzed:	12/21/07
Diln Fac:	1.000		

Type: BS Lab ID: QC421490

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	88.63	89	75-125
Arsenic	50.00	48.45	97	75-125
Barium	100.0	94.19	94	75-125
Beryllium	2.500	2.344	94	75-125
Cadmium	10.00	10.15	101	75-125
Chromium	100.0	93.14	93	75-125
Cobalt	25.00	23.64	95	75-125
Copper	12.50	11.63	93	75-125
Lead	100.0	97.63	98	75-125
Molybdenum	20.00	20.25	101	75-125
Nickel	25.00	24.01	96	75-125
Selenium	50.00	48.56	97	75-125
Silver	10.00	9.118	91	75-125
Thallium	50.00	44.92	90	75-125
Vanadium	25.00	23.39	94	75-125
Zinc	25.00	24.43	98	75-125

Type: BSD Lab ID: QC421491

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	92.00	92	75-125	4	30
Arsenic	50.00	49.78	100	75-125	3	30
Barium	100.0	96.32	96	75-125	2	30
Beryllium	2.500	2.404	96	75-125	3	30
Cadmium	10.00	10.30	103	75-125	2	30
Chromium	100.0	94.69	95	75-125	2	30
Cobalt	25.00	24.07	96	75-125	2	30
Copper	12.50	11.84	95	75-125	2	30
Lead	100.0	99.13	99	75-125	2	30
Molybdenum	20.00	20.78	104	75-125	3	30
Nickel	25.00	24.55	98	75-125	2	30
Selenium	50.00	50.58	101	75-125	4	30
Silver	10.00	9.251	93	75-125	1	30
Thallium	50.00	45.93	92	75-125	2	30
Vanadium	25.00	23.75	95	75-125	2	30
Zinc	25.00	24.87	99	75-125	2	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	20.00
Field ID:	1065SD100[5.5]	Batch#:	133051
MSS Lab ID:	200073-001	Sampled:	12/19/07
Matrix:	Soil	Received:	12/19/07
Units:	mg/Kg	Prepared:	12/20/07
Basis:	dry	Analyzed:	12/20/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC421140	11.98	0.7396	15.89	528 NM	75-125	35%		
MSD	QC421141		0.7849	18.49	829 NM	75-125	35%	15	35

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065SD100[5.5]	Batch#:	133134
MSS Lab ID:	200073-001	Sampled:	12/19/07
Matrix:	Soil	Received:	12/19/07
Units:	mg/Kg	Prepared:	12/21/07
Basis:	dry	Analyzed:	12/21/07
Diln Fac:	1.000		

Type: MS
Lab ID: QC421492
Moisture: 35%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	9.596	145.1	70.16	42 *	75-125
Arsenic	5.796	72.57	79.01	101	75-125
Barium	1,395	145.1	620.5	-533 NM	75-125
Beryllium	0.2714	3.628	3.568	91	75-125
Cadmium	18.66	14.51	21.68	21 * P	75-125
Chromium	97.09	145.1	211.6	79	75-125
Cobalt	11.98	36.28	46.35	95	75-125
Copper	183.9	18.14	119.6	-354 NM	75-125
Lead	3,490	145.1	1,744 >LR	-1203 NM	75-125
Molybdenum	3.915	29.03	33.67	103	75-125
Nickel	81.56	36.28	88.74	20 * P	75-125
Selenium	<0.06777	72.57	65.62	90	75-125
Silver	11.21	14.51	21.49	71 *	75-125
Thallium	<0.04938	72.57	53.33	73 *	75-125
Vanadium	48.54	36.28	145.9	268 * P	75-125
Zinc	4,100	36.28	1,630 >LR	-6808 NM	75-125

Type: MSD
Lab ID: QC421493
Moisture: 35%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	141.1	69.76	43 *	75-125	2	30
Arsenic	70.57	72.42	94	75-125	6	30
Barium	141.1	633.1	-540 NM	75-125	2	30
Beryllium	3.529	3.505	92	75-125	1	30
Cadmium	14.11	23.58	35 * P	75-125	10	30
Chromium	141.1	218.5	86	75-125	5	30
Cobalt	35.29	41.38	83	75-125	9	30
Copper	17.64	129.8	-307 NM	75-125	8	30
Lead	141.1	1,783 >LR	-1210 NM	75-125	NC	30
Molybdenum	28.23	33.17	104	75-125	1	30
Nickel	35.29	98.67	49 * P	75-125	11	30
Selenium	70.57	68.31	97	75-125	7	30
Silver	14.11	19.56	59 *	75-125	8	30
Thallium	70.57	56.96	81	75-125	9	30
Vanadium	35.29	81.70	94 P	75-125	55 *	30
Zinc	35.29	1,714 >LR	-6761 NM	75-125	NC	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

30.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	1065SD100[5.5]	Diln Fac:	100.0
Type:	Serial Dilution	Batch#:	133051
MSS Lab ID:	200073-001	Sampled:	12/19/07
Lab ID:	QC421139	Received:	12/19/07
Matrix:	Soil	Analyzed:	12/20/07
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff		Lim
11.98	0.5917	3.683	2.959	35%	69	*	10

*= Value outside of QC limits; see narrative
RL= Reporting Limit

27.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065SD100[5.5]	Units:	mg/Kg
Type:	Serial Dilution	Basis:	dry
MSS Lab ID:	200073-001	Batch#:	133134
Lab ID:	QC421494	Sampled:	12/19/07
Matrix:	Soil	Received:	12/19/07

Moisture: 35%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac	Analyzed
Antimony	9.596	0.7692	7.075	1.846	26 *	10	5.000	12/26/07
Arsenic	5.796	0.3846	5.734	2.032	1	10	5.000	12/26/07
Barium	1,395	7.189	1,269	35.29	9	10	100.0	12/26/07
Beryllium	0.2714	0.1538	0.3287 J	0.7057	21 *	10	5.000	12/21/07
Cadmium	18.66	0.3846	20.30	1.764	9	10	5.000	12/21/07
Chromium	97.09	0.3846	103.2	1.764	6	10	5.000	12/21/07
Cobalt	11.98	0.3846	13.08	1.764	9	10	5.000	12/21/07
Copper	183.9	0.3846	190.9	1.764	4	10	5.000	12/21/07
Lead	3,490	5.336	3,200	26.19	8	10	100.0	12/26/07
Molybdenum	3.915	0.3846	4.494	1.764	15 *	10	5.000	12/21/07
Nickel	81.56	0.3846	89.47	1.764	10	10	5.000	12/21/07
Selenium	ND	0.7692	ND	1.764	NC	10	5.000	12/26/07
Silver	11.21	0.3846	11.69	1.764	4	10	5.000	12/21/07
Thallium	ND	0.7692	ND	1.764	NC	10	5.000	12/21/07
Vanadium	48.54	0.3846	50.47	1.764	4	10	5.000	12/21/07
Zinc	4,100	28.76	3,656	141.1	11 *	10	100.0	12/26/07

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum : 87511783139
File : 122107r
IDF : 1.0
Lab ID : 200073-001
Matrix : Soil
Batch : 133134
Time : 21-DEC-2007 20:42
Cal : 87511783001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum : 87511783143
File : 122107r
IDF : 1.0
Lab ID : QC421495
Matrix : Soil
Batch : 133134
Time : 21-DEC-2007 21:00
Cal : 87511783001

MSS: 1.07 g --> 50.0 ml = 46.73 ml/g PDF
PDS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	133.5	A	2000	2108	A	99	75-125	u
Arsenic	80.62	A	1000	1128	A	105	75-125	u
Beryllium	3.775	A	50.00	54.74	A	102	75-125	u
Cadmium	259.5	A	200.0	477.9	A	107	75-125	u
Chromium	1350	A	2000	3327	A	98	75-125	u
Cobalt	166.7	A	500.0	655.6	A	97	75-125	u
Copper	2558	A	250.0	2766	A	64	75-125	: u
Manganese	2967	A	500.0	3365	A	68	75-125	: u
Molybdenum	54.45	A	400.0	468.9	A	103	75-125	u
Nickel	1134	A	500.0	1609	A	91	75-125	u
Silver	155.9	A	200.0	354.8	A	98	75-125	u
Sodium	4418	R	20000	26730	R	111	75-125	u
Thallium	ND	A	1000	902.6	A	90	75-125	u
Vanadium	675.2	A	500.0	1174	A	97	75-125	u
Boron	74.15	A	1000	1116	A	104	75-125	u
Tin	553.9	A	1000	1510	A	95	75-125	u
Titanium	8395	A	1000	9226	A	67	75-125	: u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3187361	3403023	6.77

MISSING READINGS: **AL BA CA FE PB MG K SE ZN**

:=recovery not meaningful u=use

87511783143

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum : 97518966012
File : 122607r
IDF : 20.0
Lab ID : 200073-001
Matrix : Soil
Batch : 133134
Time : 26-DEC-2007 10:31
Cal : 97518966001
Units : ug/L

Type : PDS
Inst : MET09
Seqnum : 97518966015
File : 122607r
IDF : 20.0
Lab ID : QC421495
Matrix : Soil
Batch : 133134
Time : 26-DEC-2007 10:43
Cal : 97518966001

MSS: 1.07 g --> 50.0 ml = 46.73 ml/g PDF
PDS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	6418	R	20000	25770	R	96	75-125	u
Arsenic	4.978	A	1000	1048	A	104	75-125	**y**
Barium	970.1	A	2000	2977	A	99	75-125	u
Beryllium	0.1602	A	50.00	52.27	A	104	75-125	
Cadmium	13.50	A	200.0	215.1	A	101	75-125	
Calcium	5030	R	20000	25550	R	102	75-125	u
Chromium	71.44	A	2000	2046	A	99	75-125	
Cobalt	8.028	A	500.0	488.8	A	96	75-125	
Copper	132.7	A	250.0	374.0	A	96	75-125	
Iron	15350	R	20000	35390	R	99	75-125	u
Lead	2427	A	2000	4306	A	92	75-125	u
Magnesium	3730	R	20000	24830	R	105	75-125	u
Manganese	164.2	A	500.0	665.5	A	100	75-125	u
Molybdenum	2.804	A	400.0	412.4	A	102	75-125	
Nickel	60.72	A	500.0	533.9	A	94	75-125	
Potassium	828.3	R	10000	10180	R	93	75-125	u
Selenium	ND	A	1000	1007	A	101	75-125	u
Silver	7.511	A	200.0	190.2	A	91	75-125	
Sodium	134.8	R	20000	18680	R	93	75-125	u
Thallium	ND	A	1000	979.5	A	98	75-125	**y**
Vanadium	33.76	A	500.0	525.7	A	98	75-125	
Zinc	2851	A	500.0	3335	A	86	75-125	: u
Boron	26.07	A	1000	1041	A	101	75-125	u
Tin	31.83	A	1000	1042	A	101	75-125	u
Titanium	440.8	A	1000	1458	A	101	75-125	u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3361563	3566527	6.10

MISSING READINGS: **SB**

:=recovery not meaningful u=use y=RL raised

97518966015

00128

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 200073 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
200073-001	MET14	12/20/07 12:16	1.0																	
200073-001	MET14	12/20/07 13:23	20.0										+							
200073-001	MET08	12/21/07 20:42	1.0	+	+		+	+	+	+	+			+	+		+	+	+	
200073-001	MET09	12/26/07 10:26	1.0													+				
200073-001	MET09	12/26/07 10:31	20.0			+						+								+
QC421136	MET14	12/20/07 12:10	1.0										+							
QC421137	MET14	12/20/07 12:12	1.0										+							
QC421138	MET14	12/20/07 12:14	1.0										+							
QC421139	MET14	12/20/07 12:19	5.0										+							
QC421139	MET14	12/20/07 13:25	100.0																	
QC421140	MET14	12/20/07 12:21	1.0										+							
QC421140	MET14	12/20/07 13:27	20.0																	
QC421141	MET14	12/20/07 12:23	1.0										+							
QC421141	MET14	12/20/07 13:29	20.0																	
QC421206	MET14	12/20/07 13:31	20.0										+							
QC421489	MET08	12/21/07 20:35	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC421490	MET08	12/21/07 20:38	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC421491	MET08	12/21/07 20:40	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC421492	MET08	12/21/07 20:47	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC421493	MET08	12/21/07 20:51	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC421494	MET08	12/21/07 20:56	5.0				+	+	+	+	+			+	+		+	+	+	
QC421494	MET09	12/26/07 10:34	5.0	+	+											+				
QC421494	MET09	12/26/07 10:40	100.0			+						+								+
QC421495	MET08	12/21/07 21:00	1.0	+	+		+	+	+	+	+			+	+		+	+	+	
QC421495	MET09	12/26/07 10:43	20.0			+						+				+				+

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87511783 Instrument: MET08 PE ICP Begun: 21-DEC-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL		Stds Used	>LR
001	122107r	ICALBLK				21-DEC-2007 09:43	1.0	1.0					
002	122107r	ICAL	CRIM08			21-DEC-2007 09:47	1.0	1.0				1	
003	122107r	ICAL	CS100			21-DEC-2007 09:51	1.0	1.0				2	
004	122107r	ICAL	CS1K			21-DEC-2007 09:54	1.0	1.0				3	
005	122107r	ICAL	CS10K			21-DEC-2007 09:57	1.0	1.0				4	
006	122107r	ICAL	CS100K			21-DEC-2007 10:02	1.0	1.0				5	
007	122107r	ICV				21-DEC-2007 10:06	1.0	1.0			5000	6	
008	122107r	ICB				21-DEC-2007 10:11	1.0	1.0			5000		
009	122107r	ICSA				21-DEC-2007 10:15	1.0	1.0			5000	7	10:AL=528659
010	122107r	ICSAB				21-DEC-2007 10:30	1.0	1.0			5000	8	5:AL=563902
011	122107r	BLANK	QC421293	133086	Miscel	21-DEC-2007 10:34	1.0	50.0			5000		
012	122107r	BS	QC421294	133086	Miscel	21-DEC-2007 10:38	1.0	50.0			5000		
013	122107r	BSD	QC421295	133086	Miscel	21-DEC-2007 10:42	1.0	50.0			5000		
014	122107r	MSS	199905-001	133086	Miscel	21-DEC-2007 10:45	1.0	357.1	1		5000		
015	122107r	MS	QC421296	133086	Miscel	21-DEC-2007 10:48	1.0	66.67		2	5000		
016	122107r	MSD	QC421297	133086	Miscel	21-DEC-2007 10:51	1.0	416.7		4	5000		
017	122107r	SAMPLE	199905-002	133086	Miscel	21-DEC-2007 10:53	1.0	46.73	1		5000		2:CA=644344
018	122107r	SAMPLE	199905-003	133086	Miscel	21-DEC-2007 10:58	1.0	60.98			5000		1:CA=1446045
019	122107r	CCV				21-DEC-2007 11:00	1.0	1.0			5000	9	
020	122107r	CCB				21-DEC-2007 11:05	1.0	1.0			5000		
021	122107r	SAMPLE	199905-004	133086	Miscel	21-DEC-2007 11:09	1.0	47.62			5000		
022	122107r	SAMPLE	199905-005	133086	Miscel	21-DEC-2007 11:12	1.0	47.17			5000		
023	122107r	SAMPLE	199905-006	133086	Miscel	21-DEC-2007 11:16	1.0	67.57			5000		1:CA=1491218
024	122107r	SAMPLE	199905-007	133086	Miscel	21-DEC-2007 11:18	1.0	75.76			5000		1:CA=158631
025	122107r	SAMPLE	199905-008	133086	Miscel	21-DEC-2007 11:21	1.0	47.62			5000		1:CA=787413
026	122107r	SAMPLE	199905-009	133086	Miscel	21-DEC-2007 11:24	1.0	48.54			5000		
027	122107r	SAMPLE	199905-010	133086	Miscel	21-DEC-2007 11:27	1.0	48.54			5000		1:CA=872783
028	122107r	SAMPLE	199905-011	133086	Miscel	21-DEC-2007 11:29	1.0	49.50			5000		
029	122107r	SAMPLE	199905-012	133086	Miscel	21-DEC-2007 11:32	1.0	45.87			5000		
030	122107r	SAMPLE	199905-013	133086	Miscel	21-DEC-2007 11:36	1.0	45.87			5000		3:CA=143745
031	122107r	X				21-DEC-2007 11:39	1.0					9	

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S7715 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 12/26/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87511783 Instrument: MET08 PE ICP Begun: 21-DEC-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	122107r	CCV				21-DEC-2007 11:40	1.0	1.0		5000	9	
033	122107r	CCB				21-DEC-2007 11:45	1.0	1.0		5000		
034	122107r	SAMPLE	199905-014	133086	Miscel	21-DEC-2007 11:49	1.0	45.05		5000		
035	122107r	SAMPLE	199905-015	133086	Miscel	21-DEC-2007 11:52	1.0	50.0		5000		
036	122107r	SAMPLE	199905-016	133086	Miscel	21-DEC-2007 11:55	1.0	49.50		5000		
037	122107r	SAMPLE	199905-017	133086	Miscel	21-DEC-2007 11:58	1.0	48.54		5000		2:CA=311942
038	122107r	SAMPLE	199905-018	133086	Miscel	21-DEC-2007 12:02	1.0	48.54		5000		1:FE=725092
039	122107r	SAMPLE	199905-019	133086	Miscel	21-DEC-2007 12:04	1.0	46.73		5000		
040	122107r	SAMPLE	199905-018	133086	Miscel	21-DEC-2007 12:07	1.0	48.54		5000		1:FE=719911
041	122107r	SAMPLE	199905-002	133086	Miscel	21-DEC-2007 12:12	10.0	46.73		5000		
042	122107r	ICSAB				21-DEC-2007 12:15	1.0	1.0		5000	8	5:AL=580639
043	122107r	X				21-DEC-2007 12:17	1.0				9	
044	122107r	CCV				21-DEC-2007 12:19	1.0	1.0	1	5000	9	
045	122107r	CCB				21-DEC-2007 12:23	1.0	1.0		5000		
046	122107r	BLANK	QC421249	133078	Filtra	21-DEC-2007 12:37	1.0	1.0	1	5000		
047	122107r	BS	QC421250	133078	Filtra	21-DEC-2007 12:41	1.0	1.0	1	5000		
048	122107r	BSD	QC421251	133078	Filtra	21-DEC-2007 12:44	1.0	1.0	1	5000		
049	122107r	MSS	200111-002	133078	Filtra	21-DEC-2007 12:47	1.0	1.0	3	5000		3:NA=764142
050	122107r	MS	QC421252	133078	Filtra	21-DEC-2007 12:52	1.0	1.0		1 5000		3:NA=823596
051	122107r	MSD	QC421253	133078	Filtra	21-DEC-2007 12:56	1.0	1.0		1 5000		3:NA=823116
052	122107r	SAMPLE	200111-003	133078	Filtra	21-DEC-2007 13:01	1.0	1.0	2	5000		3:NA=552412
053	122107r	SAMPLE	200111-004	133078	Filtra	21-DEC-2007 13:05	1.0	1.0	1	5000		3:MG=471831
054	122107r	SAMPLE	200111-005	133078	Filtra	21-DEC-2007 13:10	1.0	1.0	1	5000		2:CA=706332
055	122107r	SAMPLE	200024-001	133078	Water	21-DEC-2007 13:14	1.0	1.0		5000		
056	122107r	CCV				21-DEC-2007 13:17	1.0	1.0		5000	9	
057	122107r	CCB				21-DEC-2007 13:22	1.0	1.0		5000		
058	122107r	SAMPLE	200037-001	133078	Water	21-DEC-2007 13:26	1.0	1.0		5000		
059	122107r	SAMPLE	200037-002	133078	Water	21-DEC-2007 13:29	1.0	1.0		5000		
060	122107r	SAMPLE	200038-003	133078	Water	21-DEC-2007 13:33	1.0	1.0		5000		
061	122107r	SAMPLE	200071-003	133078	Water	21-DEC-2007 13:36	1.0	1.0		5000		1:NA=225268
062	122107r	SAMPLE	200084-001	133078	Water	21-DEC-2007 13:39	1.0	1.0		5000		1:CA=118653

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S7715 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 12/26/A

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87511783 Instrument: MET08 PE ICP Begun: 21-DEC-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	122107r	SAMPLE	200084-002	133078	Water	21-DEC-2007 13:42	1.0	1.0		5000	2	NA=111314
064	122107r	SAMPLE	200084-003	133078	Water	21-DEC-2007 13:46	1.0	1.0		5000	3	NA=363503
065	122107r	SAMPLE	200084-004	133078	Water	21-DEC-2007 13:48	1.0	1.0		5000	2	NA=152167
066	122107r	SAMPLE	200084-005	133078	Water	21-DEC-2007 13:51	1.0	1.0		5000	2	NA=150626
067	122107r	SAMPLE	200085-001	133078	Water	21-DEC-2007 13:55	1.0	1.0		5000	3	MG=531246
068	122107r	X				21-DEC-2007 13:59	1.0	1.0	3	5000	9	
069	122107r	CCV				21-DEC-2007 14:00	1.0	1.0	1	5000	9	
070	122107r	CCB				21-DEC-2007 14:05	1.0	1.0		5000		
071	122107r	SAMPLE	200086-001	133078	Water	21-DEC-2007 14:08	1.0	1.0	2	5000	3	MG=957749
072	122107r	SAMPLE	200086-002	133078	Water	21-DEC-2007 14:12	1.0	1.0	1	5000	3	MG=875313
073	122107r	SAMPLE	200087-001	133078	Water	21-DEC-2007 14:17	1.0	1.0	1	5000	3	K=183657
074	122107r	BLANK	QC421249	133078	Filtra	21-DEC-2007 14:21	1.0	1.0		5000		
075	122107r	SAMPLE	200111-002	133078	Filtra	21-DEC-2007 14:24	1.0	1.0		5000	3	NA=751371
076	122107r	SAMPLE	200111-003	133078	Filtra	21-DEC-2007 14:29	1.0	1.0		5000	3	NA=577427
077	122107r	SAMPLE	200111-004	133078	Filtra	21-DEC-2007 14:33	1.0	1.0		5000	3	MG=456299
078	122107r	SAMPLE	200111-005	133078	Filtra	21-DEC-2007 14:37	1.0	1.0		5000	2	CA=713722
079	122107r	SAMPLE	200085-001	133078	Water	21-DEC-2007 14:42	1.0	1.0		5000	3	MG=477198
080	122107r	SAMPLE	200086-001	133078	Water	21-DEC-2007 14:46	1.0	1.0		5000	3	MG=923268
081	122107r	X				21-DEC-2007 14:50	1.0				9	
082	122107r	CCV				21-DEC-2007 14:52	1.0	1.0	1	5000	9	
083	122107r	CCB				21-DEC-2007 14:56	1.0	1.0		5000		
084	122107r	SAMPLE	200086-002	133078	Water	21-DEC-2007 14:59	1.0	1.0		5000	3	MG=870541
085	122107r	ICSAB				21-DEC-2007 15:03	1.0	1.0		5000	8	5:MG=532350
086	122107r	X				21-DEC-2007 15:08	1.0				9	
087	122107r	CCV				21-DEC-2007 15:10	1.0	1.0		5000	9	
088	122107r	CCB				21-DEC-2007 15:14	1.0	1.0		5000		
089	122107r	SAMPLE	200087-001	133078	Water	21-DEC-2007 15:34	1.0	1.0		5000	3	K=192816
090	122107r	ICSAB				21-DEC-2007 15:39	1.0	1.0		5000	8	5:MG=532176
091	122107r	CCV				21-DEC-2007 15:43	1.0	1.0		5000	9	
092	122107r	CCB				21-DEC-2007 15:47	1.0	1.0		5000		
093	122107r	SAMPLE	199943-001	133015	Water	21-DEC-2007 16:02	1.0	1.0		5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S7715 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 12/26/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87511783 Instrument: MET08 PE ICP Begun: 21-DEC-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	122107r	SAMPLE	199943-005	133015	Water	21-DEC-2007 16:05	1.0	1.0		5000		
095	122107r	MSS	200028-016	133015	Water	21-DEC-2007 16:08	1.0	1.0	4	5000		3:MG=498865
096	122107r	SAMPLE	200053-003	133015	Water	21-DEC-2007 16:13	1.0	1.0	1	5000		1:NA=318171
097	122107r	ICSAB				21-DEC-2007 16:35	1.0	1.0		5000	8	5:AL=515655
098	122107r	CCV				21-DEC-2007 16:40	1.0	1.0		5000	9	
099	122107r	CCB				21-DEC-2007 16:44	1.0	1.0		5000		
100	122107r	SAMPLE	200053-003	133015	Water	21-DEC-2007 16:54	1.0	1.0		5000		1:NA=321691
101	122107r	ICSAB				21-DEC-2007 16:58	1.0	1.0		5000	8	5:MG=522115
102	122107r	CCV				21-DEC-2007 17:02	1.0	1.0	6	5000	9	
103	122107r	X				21-DEC-2007 17:03	1.0	1.0	6	5000	9	
104	122107r	CCB				21-DEC-2007 17:08	1.0	1.0		5000		
105	122107r	BLANK	QC421449	133125	Water	21-DEC-2007 17:51	1.0	1.0		5000		
106	122107r	BS	QC421450	133125	Water	21-DEC-2007 17:55	1.0	1.0	6	5000		
107	122107r	BSD	QC421451	133125	Water	21-DEC-2007 17:58	1.0	1.0	6	5000		
108	122107r	MSS	200080-001	133125	Water	21-DEC-2007 18:01	1.0	1.0	6	5000		2:K=516262
109	122107r	MS	QC421452	133125	Water	21-DEC-2007 18:06	1.0	1.0		5000		2:K=504106
110	122107r	MSD	QC421453	133125	Water	21-DEC-2007 18:12	1.0	1.0		5000		2:K=499115
111	122107r	SAMPLE	200080-003	133125	Water	21-DEC-2007 18:17	1.0	1.0		5000		2:K=375320
112	122107r	SAMPLE	200080-005	133125	Water	21-DEC-2007 18:22	1.0	1.0		5000		
113	122107r	CCV				21-DEC-2007 18:26	1.0	1.0	3	5000	9	
114	122107r	X				21-DEC-2007 18:27	1.0	1.0	3	5000	9	
115	122107r	X				21-DEC-2007 18:31	1.0	1.0	1	5000		
116	122107r	CCB				21-DEC-2007 18:33	1.0	1.0		5000		
117	122107r	SAMPLE	200081-001	133125	Water	21-DEC-2007 18:36	1.0	1.0		5000		1:NA=142806
118	122107r	SAMPLE	200083-001	133125	Water	21-DEC-2007 18:40	1.0	1.0		5000		
119	122107r	SAMPLE	200077-001	133125	Water	21-DEC-2007 18:43	1.0	1.0		5000		1:NA=497059
120	122107r	SAMPLE	200077-005	133125	Water	21-DEC-2007 18:47	1.0	1.0		5000		1:NA=207787
121	122107r	SAMPLE	200077-009	133125	Water	21-DEC-2007 18:50	1.0	1.0		5000		1:NA=116063
122	122107r	ICSAB				21-DEC-2007 18:53	1.0	1.0		5000	8	5:AL=532636
123	122107r	CCV				21-DEC-2007 18:58	1.0	1.0	1	5000	9	
124	122107r	X				21-DEC-2007 18:59	1.0	1.0		5000	9	

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S7715 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 12/26/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87511783 Instrument: MET08 PE ICP Begun: 21-DEC-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
125	122107r	CCB				21-DEC-2007 19:04	1.0	1.0			5000		
126	122107r	BLANK	QC421462	133128	Water	21-DEC-2007 19:12	1.0	1.0			5000		
127	122107r	BS	QC421463	133128	Water	21-DEC-2007 19:16	1.0	1.0	5	1	5000		
128	122107r	BSD	QC421464	133128	Water	21-DEC-2007 19:19	1.0	1.0	5	2	5000		
129	122107r	MSS	200165-001	133128	Water	21-DEC-2007 19:22	1.0	1.0	6		5000		2:K=701555
130	122107r	MS	QC421465	133128	Water	21-DEC-2007 19:28	1.0	1.0			5000		2:K=683912
131	122107r	MSD	QC421466	133128	Water	21-DEC-2007 19:34	1.0	1.0		1	5000		2:K=697841
132	122107r	ICSAB				21-DEC-2007 19:40	1.0	1.0			5000	8	5:AL=525958
133	122107r	CCV				21-DEC-2007 19:44	1.0	1.0	5		5000	9	
134	122107r	X				21-DEC-2007 19:45	1.0	1.0	4		5000	9	
135	122107r	CCB				21-DEC-2007 19:49	1.0	1.0			5000		
136	122107r	BLANK	QC421489	133134	Soil	21-DEC-2007 20:35	1.0	50.0			5000		
137	122107r	BS	QC421490	133134	Soil	21-DEC-2007 20:38	1.0	50.0	5		5000		
138	122107r	BSD	QC421491	133134	Soil	21-DEC-2007 20:40	1.0	50.0	5		5000		
139	122107r	MSS	200073-001	133134	Soil	21-DEC-2007 20:42	1.0	46.73	9		5000		6:FE=303931
140	122107r	MS	QC421492	133134	Soil	21-DEC-2007 20:47	1.0	47.17		3	5000		7:FE=523965
141	122107r	MSD	QC421493	133134	Soil	21-DEC-2007 20:51	1.0	45.87		4	5000		6:FE=301217
142	122107r	SER	QC421494	133134	Soil	21-DEC-2007 20:56	5.0	45.87	4	14	5000		1:ZN=11451.1
143	122107r	PDS	QC421495	133134	Soil	21-DEC-2007 21:00	1.0	45.87	4	6	5000	10 11	6:FE=335781
144	122107r	X				21-DEC-2007 21:04	1.0	1.0	5		5000	9	
145	122107r	CCV				21-DEC-2007 21:07	1.0	1.0			5000	9	
146	122107r	CCB				21-DEC-2007 21:12	1.0	1.0			5000		
147	122107r	MSS	200027-001	133134	Soil	21-DEC-2007 21:15	1.0	45.87	6		5000		5:FE=1240008
148	122107r	SAMPLE	200027-002	133134	Soil	21-DEC-2007 21:19	1.0	48.54			5000		3:FE=576570
149	122107r	SAMPLE	200027-003	133134	Soil	21-DEC-2007 21:22	1.0	47.62	1		5000		4:FE=452238
150	122107r	SAMPLE	200027-004	133134	Soil	21-DEC-2007 21:24	1.0	47.17	1		5000		2:FE=272360
151	122107r	SAMPLE	200027-005	133134	Soil	21-DEC-2007 21:26	1.0	45.87	1		5000		3:FE=382645
152	122107r	SAMPLE	200115-001	133134	Miscel	21-DEC-2007 21:31	1.0	48.54			5000		
153	122107r	SAMPLE	200159-001	133134	Miscel	21-DEC-2007 21:34	1.0	48.08			5000		1:NA=189999
154	122107r	SAMPLE	200159-002	133134	Miscel	21-DEC-2007 21:37	1.0	50.0			5000		
155	122107r	ICSAB				21-DEC-2007 21:41	1.0	1.0			5000	8	5:AL=557502

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S7715 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 12/26/A

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 87511783 Instrument: MET08 PE ICP Begun: 21-DEC-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
156	122107r	X				21-DEC-2007 21:45	1.0	1.0	6	5000	9	
157	122107r	CCV				21-DEC-2007 21:46	1.0	1.0	3	5000	9	
158	122107r	CCB				21-DEC-2007 21:50	1.0	1.0		5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S7715 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 12/26/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 87511783001
Units : ug/L

Reviewer : ---
Date : 21-DEC-2007 09:43
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122107r	87511783002	CRIM08	21-DEC-2007 09:47	S7555
L2	122107r	87511783003	CS100	21-DEC-2007 09:51	S7713
L3	122107r	87511783004	CS1K	21-DEC-2007 09:54	S7712
L4	122107r	87511783005	CS10K	21-DEC-2007 09:57	S7714
L5	122107r	87511783006	CS100K	21-DEC-2007 10:02	S7674

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	28.488	32.553	33.750	33.493		LOR0	0.00000	0.02986		32.071	1.000	0.995	
Arsenic	A	22.204	24.040	24.772	24.629		LOR0	0.00000	0.04060		23.911	1.000	0.995	
Barium	A	458.24	420.62	431.33	409.17		LOR0	0.00000	0.00244		429.84	1.000	0.995	
Beryllium	A	2956.1	3011.5	3070.3			LOR0	0.00000	3.26E-4		3012.6	1.000	0.995	
Boron	A	156.04		165.47	162.05		LOR0	0.00000	0.00617		161.19	1.000	0.995	
Cadmium	A	318.38	325.25	337.75	321.04		LOR0	0.00000	0.00311		325.60	1.000	0.995	
Chromium	A	63.283	65.315	68.719	65.483		LOR0	0.00000	0.01526		65.700	1.000	0.995	
Cobalt	A	123.82	123.00	130.16	123.27		LOR0	0.00000	0.00811		125.06	1.000	0.995	
Copper	A	413.05	387.29	392.80	380.88		LOR0	0.00000	0.00262		393.50	1.000	0.995	
Lead	A	40.043	57.962	58.847	56.610		LOR0	0.00000	0.01766		53.365	1.000	0.995	
Manganese	A	1421.7	1328.5	1345.4	1292.2		LOR0	0.00000	7.74E-4		1347.0	1.000	0.995	
Molybdenum	A	38.660	38.540	39.365	38.209		LOR0	0.00000	0.02616		38.694	1.000	0.995	
Nickel	A	48.351	43.479	46.176	43.906		LOR0	0.00000	0.02276		45.478	1.000	0.995	
Selenium	A	34.055	35.134	36.544	36.680		LOR0	0.00000	0.02726		35.603	1.000	0.995	
Silver	A	397.04	459.59	474.39	452.74		LOR0	0.00000	0.00219		445.94	0.999	0.995	
Thallium	A	20.280	16.396	16.796	15.865		LOR0	0.00000	0.06300		17.334	1.000	0.995	
Tin	A	26.941	26.384	27.558	28.331		LOR0	0.00000	0.03531		27.303	1.000	0.995	
Titanium	A	1071.5	1098.3	1113.7	1069.8		LOR0	0.00000	9.34E-4		1088.3	1.000	0.995	
Vanadium	A	107.45	101.26	105.25	102.11		LOR0	0.00000	0.00979		104.02	1.000	0.995	
Zinc	A	381.38	122.90	123.27	116.11		LOR0	0.00000	0.00861		185.91	1.000	0.995	
Aluminum	R	1.2560		1.1393	1.0811	0.9676	LOR0	0.00000	1.03225		1.1110	1.000	0.995	
Calcium	R	24.864		17.880	15.147	13.935	LOR0	0.00000	0.07170		17.956	1.000	0.995	
Iron	R	10.736		10.012	9.3750	8.8747	LOR0	0.00000	0.11262		9.7494	1.000	0.995	
Magnesium	R	2.4512		2.5957	2.3656	2.1932	LOR0	0.00000	0.45560		2.4014	1.000	0.995	
Potassium	R	4.3858		4.9834	5.1219	5.0575	LOR0	0.00000	0.19770		4.8871	1.000	0.995	
Sodium	R	8.0389		7.9236	7.4731	6.8852	LOR0	0.00000	0.14511		7.5802	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-15	100.0	-3	1000	1	10000	0		
Arsenic	A	5.000	-10	100.0	-2	1000	1	10000	0		
Barium	A	5.000	12	100.0	3	1000	5	10000	0		
Beryllium	A	2.000	-4	100.0	-2	1000	0				
Boron	A	100.0	-4			1000	2	10000	0		
Cadmium	A	5.000	-1	100.0	1	1000	5	10000	0		
Chromium	A	5.000	-3	100.0	0	1000	5	10000	0		
Cobalt	A	5.000	0	100.0	0	1000	6	10000	0		
Copper	A	5.000	8	100.0	2	1000	3	10000	0		
Lead	A	3.000	-29	100.0	2	1000	4	10000	0		
Manganese	A	5.000	10	100.0	3	1000	4	10000	0		
Molybdenum	A	5.000	1	100.0	1	1000	3	10000	0		
Nickel	A	5.000	10	100.0	-1	1000	5	10000	0		
Selenium	A	5.000	-7	100.0	-4	1000	0	10000	0		
Silver	A	5.000	-13	100.0	1	1000	4	2000	-1		
Thallium	A	5.000	28	100.0	3	1000	6	10000	0		
Tin	A	40.00	-5	100.0	-7	1000	-3	10000	0		
Titanium	A	10.00	0	100.0	3	1000	4	10000	0		
Vanadium	A	5.000	5	100.0	-1	1000	3	10000	0		
Zinc	A	20.00	228	100.0	6	1000	6	10000	0		
Aluminum	R	100.0	30			1000	18	10000	12	100000	0
Calcium	R	200.0	78			1000	28	10000	9	100000	0
Iron	R	100.0	21			1000	13	10000	6	100000	0
Magnesium	R	200.0	12			1000	18	10000	8	100000	0
Potassium	R	500.0	-13			1000	-1	10000	1	100000	0
Sodium	R	500.0	17			1000	15	10000	8	100000	0

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/21/2007 9:43:35 AM
Data Type: Reprocessed on 12/21/2007 10:28:54 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	112.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	6744.0	195.19	2.89%	[0.00]	ug/L
Al 308.215 R	-339.0	15.58	4.60%	[0.00]	ug/L
As 188.979	168,5	35.05	20.80%	[0.00]	ug/L
B 249.677	82.6	48.43	58.60%	[0.00]	ug/L
Ba 233.527	34.7	21.60	62.32%	[0.00]	ug/L
Be 313.107	3897.8	93.44	2.40%	[0.00]	ug/L
Ca 315.887 R	71.3	7.12	9.98%	[0.00]	ug/L
Cd 214.440	42.4	9.64	22.71%	[0.00]	ug/L
Co 228.616	-1170.3	8.65	0.74%	[0.00]	ug/L
Cr 267.716	-277.2	17.08	6.16%	[0.00]	ug/L
Cu 324.752	4681.1	7.42	0.16%	[0.00]	ug/L
Fe 238.204 R	221.7	3.20	1.44%	[0.00]	ug/L
K 766.490 R	3754.9	118.62	3.16%	[0.00]	ug/L
Mg 279.077 R	-23.3	4.19	17.98%	[0.00]	ug/L
Mn 257.610	494.2	9.16	1.85%	[0.00]	ug/L
Mo 202.031	-37.0	2.18	5.89%	[0.00]	ug/L
Na 589.592 R	-12737.8	62.00	0.49%	[0.00]	ug/L
Ni 231.604	-727.1	8.70	1.20%	[0.00]	ug/L
Pb 220.353	278.2	20.06	7.21%	[0.00]	ug/L
Sb 206.836	-31.8	16.77	52.74%	[0.00]	ug/L
Se 196.026	-321.7	152.20	47.31%	[0.00]	ug/L
Ti 334.940 R	24.5	337.08	>999.9%	[0.00]	ug/L
Tl 190.801	-131.5	28.78	21.88%	[0.00]	ug/L
V 292.402	-288.6	25.12	8.70%	[0.00]	ug/L
Zn 206.200	-65.2	3.22	4.93%	[0.00]	ug/L
Sn 189.927	-21.1	6.67	31.65%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/21/2007 9:47:50 AM
Data Type: Reprocessed on 12/21/2007 10:28:55 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	111.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3187360.7	37186.95	1.17%	100.0	%
Y	252414.4	12010.11	4.76%	100.0	%
Ag 328.068†	1985.2	83.86	4.22%	[5.0]	ug/L
Al 308.215 R†	125.6	19.65	15.64%	[100]	ug/L
As 188.979†	111.0	7.57	6.82%	[5.0]	ug/L
B 249.677†	15604.1	515.96	3.31%	[100]	ug/L
Ba 233.527†	2291.2	39.85	1.74%	[5.0]	ug/L
Be 313.107†	5912.1	209.10	3.54%	[2.0]	ug/L
Ca 315.887 R†	4972.9	231.93	4.66%	[200]	ug/L
Cd 214.440†	1591.9	32.44	2.04%	[5.0]	ug/L
Co 228.616†	619.1	17.50	2.83%	[5.0]	ug/L
Cr 267.716†	316.4	18.83	5.95%	[5.0]	ug/L
Cu 324.752†	2065.3	160.30	7.76%	[5.0]	ug/L
Fe 238.204 R†	1073.6	86.22	8.03%	[100]	ug/L
K 766.490 R†	2192.9	233.99	10.67%	[500]	ug/L
Mg 279.077 R†	490.2	7.13	1.45%	[200]	ug/L
Mn 257.610†	7108.3	76.18	1.07%	[5.0]	ug/L
Mo 202.031†	193.3	4.78	2.47%	[5.0]	ug/L
Na 589.592 R†	4019.4	545.84	13.58%	[500]	ug/L
Ni 231.604†	241.8	12.55	5.19%	[5.0]	ug/L
Pb 220.353†	120.1	52.70	43.87%	[3.0]	ug/L
Sb 206.836†	142.4	53.64	37.66%	[5.0]	ug/L
Se 196.026†	170.3	147.64	86.71%	[5.0]	ug/L
Ti 334.940 R†	10715.3	86.38	0.81%	[10]	ug/L
Tl 190.801†	101.4	11.03	10.88%	[5.0]	ug/L
V 292.402†	537.3	12.69	2.36%	[5.0]	ug/L
Zn 206.200†	7627.7	120.88	1.58%	[20]	ug/L
Sn 189.927†	1077.6	20.94	1.94%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/21/2007 9:51:09 AM
Data Type: Reprocessed on 12/21/2007 10:28:56 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	112.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3093881.9	120396.21	3.89%	97.07	%
Y	215537.7	6619.53	3.07%	85.39	%
Ag 328.068†	45959.5	2821.06	6.14%	[100]	ug/L
As 188.979†	2404.0	131.32	5.46%	[100]	ug/L
Ba 233.527†	42062.3	2172.47	5.16%	[100]	ug/L
Be 313.107†	301148.5	19544.50	6.49%	[100]	ug/L
Cd 214.440†	32524.5	1621.66	4.99%	[100]	ug/L
Co 228.616†	12300.4	470.05	3.82%	[100]	ug/L
Cr 267.716†	6531.5	258.45	3.96%	[100]	ug/L
Cu 324.752†	38729.1	2246.83	5.80%	[100]	ug/L
Mn 257.610†	132852.8	7078.63	5.33%	[100]	ug/L
Mo 202.031†	3854.0	164.21	4.26%	[100]	ug/L
Ni 231.604†	4347.9	164.81	3.79%	[100]	ug/L
Pb 220.353†	5796.2	281.77	4.86%	[100]	ug/L
Sb 206.836†	3255.3	177.06	5.44%	[100]	ug/L
Se 196.026†	3513.4	277.90	7.91%	[100]	ug/L
Ti 334.940 R†	109828.4	5529.57	5.03%	[100]	ug/L
Tl 190.801†	1639.6	49.47	3.02%	[100]	ug/L
V 292.402†	10126.0	588.87	5.82%	[100]	ug/L
Zn 206.200†	12289.9	499.14	4.06%	[100]	ug/L
Sn 189.927†	2638.4	106.79	4.05%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 12/21/2007 9:54:30 AM
Data Type: Reprocessed on 12/21/2007 10:29:02 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	112.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	3083980.1	174783.77	5.67%	96.76	%
Y	264106.6	69919.50	26.47%	104.6	%
Ag 328.068†	474392.3	25939.98	5.47%	[1000]	ug/L
Al 308.215 R†	1139.3	182.74	16.04%	[1000]	ug/L
As 188.979†	24772.3	1591.55	6.42%	[1000]	ug/L
B 249.677†	165468.2	7478.26	4.52%	[1000]	ug/L
Ba 233.527†	431331.1	24263.07	5.63%	[1000]	ug/L
Be 313.107†	3070271.8	175279.33	5.71%	[1000]	ug/L
Ca 315.887 R†	17879.6	5053.16	28.26%	[1000]	ug/L
Cd 214.440†	337748.7	18297.10	5.42%	[1000]	ug/L
Co 228.616†	130159.1	7090.82	5.45%	[1000]	ug/L
Cr 267.716†	68719.2	3672.79	5.34%	[1000]	ug/L
Cu 324.752†	392796.8	22382.17	5.70%	[1000]	ug/L
Fe 238.204 R†	10012.4	2942.71	29.39%	[1000]	ug/L
K 766.490 R†	4983.4	2317.25	46.50%	[1000]	ug/L
Mg 279.077 R†	2595.7	724.41	27.91%	[1000]	ug/L
Mn 257.610†	1345410.1	73870.44	5.49%	[1000]	ug/L
Mo 202.031†	39365.4	2436.89	6.19%	[1000]	ug/L
Na 589.592 R†	7923.6	1152.23	14.54%	[1000]	ug/L
Ni 231.604†	46175.9	2642.21	5.72%	[1000]	ug/L
Pb 220.353†	58846.6	3853.46	6.55%	[1000]	ug/L
Sb 206.836†	33750.5	2129.03	6.31%	[1000]	ug/L
Se 196.026†	36544.3	2370.25	6.49%	[1000]	ug/L
Ti 334.940 R†	1113740.3	62777.53	5.64%	[1000]	ug/L
Tl 190.801†	16796.1	1076.75	6.41%	[1000]	ug/L
V 292.402†	105249.4	5775.02	5.49%	[1000]	ug/L
Zn 206.200†	123269.0	6382.04	5.18%	[1000]	ug/L
Sn 189.927†	27557.7	1803.17	6.54%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/21/2007 9:57:49 AM
Data Type: Reprocessed on 12/21/2007 10:29:03 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	112.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3086091.1	59596.70	1.93%	96.82	%
Y	255449.4	7255.08	2.84%	101.2	%
Ag 328.068†	905473.8	4696.98	0.52%	[2000]	ug/L
Al 308.215 R†	10810.6	144.67	1.34%	[10000]	ug/L
As 188.979†	246291.5	9633.63	3.91%	[10000]	ug/L
B 249.677†	1620501.4	8482.32	0.52%	[10000]	ug/L
Ba 233.527†	4091741.4	95878.10	2.34%	[10000]	ug/L
Ca 315.887 R†	151473.5	1720.33	1.14%	[10000]	ug/L
Cd 214.440†	3210403.4	83425.75	2.60%	[10000]	ug/L
Co 228.616†	1232655.9	5252.98	0.43%	[10000]	ug/L
Cr 267.716†	654828.4	2761.69	0.42%	[10000]	ug/L
Cu 324.752†	3808800.8	89853.64	2.36%	[10000]	ug/L
Fe 238.204 R†	93750.0	1038.95	1.11%	[10000]	ug/L
K 766.490 R†	51218.8	495.99	0.97%	[10000]	ug/L
Mg 279.077 R†	23656.0	317.91	1.34%	[10000]	ug/L
Mn 257.610†	12922428.3	304650.32	2.36%	[10000]	ug/L
Mo 202.031†	382091.5	6015.09	1.57%	[10000]	ug/L
Na 589.592 R†	74731.3	2702.98	3.62%	[10000]	ug/L
Ni 231.604†	439057.0	2750.68	0.63%	[10000]	ug/L
Pb 220.353†	566096.2	2446.42	0.43%	[10000]	ug/L
Sb 206.836†	334926.9	12157.58	3.63%	[10000]	ug/L
Se 196.026†	366796.2	15880.25	4.33%	[10000]	ug/L
Ti 334.940 R†	10698080.4	246091.36	2.30%	[10000]	ug/L
Tl 190.801†	158647.2	3599.75	2.27%	[10000]	ug/L
V 292.402†	1021100.2	6033.75	0.59%	[10000]	ug/L
Zn 206.200†	1161058.6	5121.58	0.44%	[10000]	ug/L
Sn 189.927†	283306.3	442.55	0.16%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 12/21/2007 10:02:25 AM
Data Type: Reprocessed on 12/21/2007 10:29:04 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	113.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3138305.2	5955.16	0.19%	98.46	%
Y	260514.1	4399.10	1.69%	103.2	%
Al 308.215 R†	96761.4	431.31	0.45%	[100000]	ug/L
Ca 315.887 R†	1393460.4	5276.30	0.38%	[100000]	ug/L
Fe 238.204 R†	887466.1	2718.29	0.31%	[100000]	ug/L
K 766.490 R†	505746.4	1010.17	0.20%	[100000]	ug/L
Mg 279.077 R†	219315.7	651.84	0.30%	[100000]	ug/L
Na 589.592 R†	688524.4	2369.10	0.34%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	457.1	0.00000	0.999821	
Al 308.215 R	4	Lin Thru 0	0.0	0.9688	0.00000	0.999931	
As 188.979	4	Lin Thru 0	0.0	24.63	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	162.1	0.00000	0.999998	
Ba 233.527	4	Lin Thru 0	0.0	409.4	0.00000	0.999986	
Be 313.107	3	Lin Thru 0	0.0	3070	0.00000	0.999998	
Ca 315.887 R	4	Lin Thru 0	0.0	13.95	0.00000	0.999958	
Cd 214.440	4	Lin Thru 0	0.0	321.2	0.00000	0.999987	
Co 228.616	4	Lin Thru 0	0.0	123.3	0.00000	0.999985	
Cr 267.716	4	Lin Thru 0	0.0	65.51	0.00000	0.999988	
Cu 324.752	4	Lin Thru 0	0.0	381.0	0.00000	0.999995	
Fe 238.204 R	4	Lin Thru 0	0.0	8.880	0.00000	0.999984	
K 766.490 R	4	Lin Thru 0	0.0	5.058	0.00000	0.999999	
Mg 279.077 R	4	Lin Thru 0	0.0	2.195	0.00000	0.999968	
Mn 257.610	4	Lin Thru 0	0.0	1293	0.00000	0.999992	
Mo 202.031	4	Lin Thru 0	0.0	38.22	0.00000	0.999996	
Na 589.592 R	4	Lin Thru 0	0.0	6.891	0.00000	0.999963	
Ni 231.604	4	Lin Thru 0	0.0	43.93	0.00000	0.999987	
Pb 220.353	4	Lin Thru 0	0.0	56.63	0.00000	0.999992	
Sb 206.836	4	Lin Thru 0	0.0	33.50	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	36.68	0.00000	1.000000	
Ti 334.940 R	4	Lin Thru 0	0.0	1070	0.00000	0.999992	
Tl 190.801	4	Lin Thru 0	0.0	15.87	0.00000	0.999983	
V 292.402	4	Lin Thru 0	0.0	102.1	0.00000	0.999995	
Zn 206.200	4	Lin Thru 0	0.0	116.2	0.00000	0.999971	
Sn 189.927	4	Lin Thru 0	0.0	28.32	0.00000	0.999996	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783007 File : 122107r Time : 21-DEC-2007 10:06
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7982

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	32.071	33.050	5000	4934	ug/L	-1	10	
Arsenic	A	23.911	24.242	5000	4921	ug/L	-2	10	
Barium	A	429.84	400.95	5000	4897	ug/L	-2	10	
Beryllium	A	3012.6	2992.1	500.0	487.4	ug/L	-3	10	
Boron	A	161.19	162.39	5000	5009	ug/L	0	10	
Cadmium	A	325.60	314.79	5000	4900	ug/L	-2	10	
Chromium	A	65.700	63.143	5000	4819	ug/L	-4	10	
Cobalt	A	125.06	118.84	5000	4808	ug/L	-4	10	
Copper	A	393.50	363.53	5000	4771	ug/L	-5	10	
Lead	A	53.365	54.462	5000	4808	ug/L	-4	10	
Manganese	A	1347.0	1250.9	5000	4838	ug/L	-3	10	
Molybdenum	A	38.694	37.791	5000	4944	ug/L	-1	10	
Nickel	A	45.478	42.509	5000	4838	ug/L	-3	10	
Selenium	A	35.603	35.806	5000	4881	ug/L	-2	10	
Silver	A	445.94	452.88	1000	990.8	ug/L	-1	10	
Thallium	A	17.334	15.272	5000	4810	ug/L	-4	10	
Tin	A	27.303	27.984	5000	4940	ug/L	-1	10	
Titanium	A	1088.3	1053.9	5000	4924	ug/L	-2	10	
Vanadium	A	104.02	99.689	5000	4880	ug/L	-2	10	
Zinc	A	185.91	112.59	5000	4846	ug/L	-3	10	
Aluminum	R	1.1110	1.0387	20000	21450	ug/L	7	10	
Calcium	R	17.956	15.151	20000	21730	ug/L	9	10	
Iron	R	9.7494	9.5958	20000	21610	ug/L	8	10	
Magnesium	R	2.4014	2.4049	20000	21910	ug/L	10	10	
Potassium	R	4.8871	5.1256	20000	20270	ug/L	1	10	
Sodium	R	7.5802	7.3397	20000	21300	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3138767	-1.52

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87511783008
Cal : 87511783001
File : 122107r
Caldate : 21-DEC-2007
IDF : 1.0
Time : 21-DEC-2007 10:11

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[2.141]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[30.60]	100.0	15.00	ug/L	!ib
Cadmium	A	[0.3724]	5.000	0.3555	ug/L	!ib
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.432]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[2.901]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3161843	-0.80

!=warning ib=instrument blank

87511783008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783009 File : 122107r Time : 21-DEC-2007 10:15
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[2.539]	5.000	ug/L	
Arsenic	A	[1.960]	5.000	ug/L	
Barium	A	[-1.753]	5.000	ug/L	
Beryllium	A	[-0.3586]	2.000	ug/L	
Boron	A	[4.875]	100.0	ug/L	
Cadmium	A	[-2.898]	5.000	ug/L	
Cobalt	A	[1.128]	5.000	ug/L	
Lead	A	[0.8326]	3.000	ug/L	
Molybdenum	A	[-1.999]	5.000	ug/L	
Selenium	A	[-9.728]	5.000	ug/L	
Silver	A	[-4.110]	5.000	ug/L	
Thallium	A	5.166	5.000	ug/L	
Tin	A	[-10.98]	40.00	ug/L	
Zinc	A	[-1.548]	20.00	ug/L	
Potassium	R	[-408.1]	500.0	ug/L	
Sodium	R	[79.34]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18990	ug/L	95
Copper	A	20000	19140	ug/L	96
Manganese	A	20000	18140	ug/L	91
Nickel	A	20000	18180	ug/L	91
Titanium	A	20000	19060	ug/L	95
Vanadium	A	20000	19520	ug/L	98
Aluminum	R	500000	528700	ug/L	106
Calcium	R	500000	511900	ug/L	102
Iron	R	200000	202800	ug/L	101
Magnesium	R	500000	523600	ug/L	105

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	2891483	-9.28

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87511783010
Cal : 87511783001
Standards: S7715

File : 122107r
Caldate : 21-DEC-2007

IDF : 1.0
Time : 21-DEC-2007 10:30

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	521.2	ug/L	4	20	
Arsenic	A	500.0	512.4	ug/L	2	20	
Barium	A	500.0	521.7	ug/L	4	20	
Beryllium	A	500.0	522.7	ug/L	5	20	
Cadmium	A	1000	993.1	ug/L	-1	20	
Chromium	A	500.0	508.3	ug/L	2	20	
Cobalt	A	500.0	471.7	ug/L	-6	20	
Copper	A	500.0	478.5	ug/L	-4	20	
Lead	A	1000	945.7	ug/L	-5	20	
Manganese	A	500.0	462.2	ug/L	-8	20	
Molybdenum	A	500.0	505.4	ug/L	1	20	
Nickel	A	1000	979.0	ug/L	-2	20	
Selenium	A	500.0	493.8	ug/L	-1	20	
Silver	A	1000	1062	ug/L	6	20	
Thallium	A	500.0	445.6	ug/L	-11	20	
Titanium	A	20000	19600	ug/L	-2		
Vanadium	A	500.0	533.3	ug/L	7	20	
Zinc	A	1000	997.9	ug/L	0	20	
Aluminum	R	500000	563900	ug/L	13		
Calcium	R	500000	540000	ug/L	8		
Iron	R	200000	214800	ug/L	7		
Magnesium	R	500000	551800	ug/L	10		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	2849106	-10.61

87511783010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87511783019
Cal : 87511783001
Standards: S7983

File : 122107r
Caldate : 21-DEC-2007

IDF : 1.0
Time : 21-DEC-2007 11:00

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	32.824	5000	4900	ug/L	-2	10	
Arsenic	A	23.911	24.078	5000	4888	ug/L	-2	10	
Barium	A	429.84	400.78	5000	4895	ug/L	-2	10	
Beryllium	A	3012.6	2978.6	500.0	485.2	ug/L	-3	10	
Boron	A	161.19	161.21	5000	4973	ug/L	-1	10	
Cadmium	A	325.60	316.23	5000	4923	ug/L	-2	10	
Chromium	A	65.700	62.860	5000	4797	ug/L	-4	10	
Cobalt	A	125.06	118.99	5000	4814	ug/L	-4	10	
Copper	A	393.50	364.39	5000	4782	ug/L	-4	10	
Lead	A	53.365	54.810	5000	4839	ug/L	-3	10	
Manganese	A	1347.0	1252.9	5000	4846	ug/L	-3	10	
Molybdenum	A	38.694	38.024	5000	4974	ug/L	-1	10	
Nickel	A	45.478	42.495	5000	4837	ug/L	-3	10	
Selenium	A	35.603	35.609	5000	4854	ug/L	-3	10	
Silver	A	445.94	452.02	1000	988.9	ug/L	-1	10	
Thallium	A	17.334	15.081	5000	4750	ug/L	-5	10	
Tin	A	27.303	28.088	5000	4958	ug/L	-1	10	
Titanium	A	1088.3	1054.8	5000	4928	ug/L	-1	10	
Vanadium	A	104.02	99.627	5000	4877	ug/L	-2	10	
Zinc	A	185.91	112.81	5000	4855	ug/L	-3	10	
Aluminum	R	1.1110	1.0311	20000	21290	ug/L	6	10	
Calcium	R	17.956	15.116	20000	21680	ug/L	8	10	
Iron	R	9.7494	9.5065	20000	21410	ug/L	7	10	
Magnesium	R	2.4014	2.3728	20000	21620	ug/L	8	10	
Potassium	R	4.8871	5.0500	20000	19970	ug/L	0	10	
Sodium	R	7.5802	7.2858	20000	21150	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3141233	-1.45

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87511783020
Cal : 87511783001
File : 122107r
Caldate : 21-DEC-2007
IDF : 1.0
Time : 21-DEC-2007 11:05

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1184]	2.000	0.1170	ug/L	!ib
Boron	A	[15.06]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.830]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[4.179]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3131077	-1.77

!=warning ib=instrument blank

87511783020

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87511783032
Cal : 87511783001
Standards: S7983

File : 122107r
Caldate : 21-DEC-2007

IDF : 1.0
Time : 21-DEC-2007 11:40

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	33.324	5000	4974	ug/L	-1	10	
Arsenic	A	23.911	24.471	5000	4968	ug/L	-1	10	
Barium	A	429.84	406.76	5000	4968	ug/L	-1	10	
Beryllium	A	3012.6	3032.2	500.0	493.9	ug/L	-1	10	
Boron	A	161.19	164.00	5000	5059	ug/L	1	10	
Cadmium	A	325.60	321.82	5000	5010	ug/L	0	10	
Chromium	A	65.700	63.856	5000	4873	ug/L	-3	10	
Cobalt	A	125.06	121.02	5000	4896	ug/L	-2	10	
Copper	A	393.50	368.33	5000	4834	ug/L	-3	10	
Lead	A	53.365	55.008	5000	4857	ug/L	-3	10	
Manganese	A	1347.0	1271.9	5000	4919	ug/L	-2	10	
Molybdenum	A	38.694	39.051	5000	5109	ug/L	2	10	
Nickel	A	45.478	43.305	5000	4929	ug/L	-1	10	
Selenium	A	35.603	36.221	5000	4938	ug/L	-1	10	
Silver	A	445.94	458.26	1000	1003	ug/L	0	10	
Thallium	A	17.334	15.318	5000	4825	ug/L	-4	10	
Tin	A	27.303	28.210	5000	4980	ug/L	0	10	
Titanium	A	1088.3	1068.7	5000	4993	ug/L	0	10	
Vanadium	A	104.02	100.78	5000	4933	ug/L	-1	10	
Zinc	A	185.91	115.22	5000	4959	ug/L	-1	10	
Aluminum	R	1.1110	1.0153	20000	20960	ug/L	5	10	
Calcium	R	17.956	14.951	20000	21440	ug/L	7	10	
Iron	R	9.7494	9.5608	20000	21530	ug/L	8	10	
Magnesium	R	2.4014	2.4179	20000	22030	ug/L	10	10	
Potassium	R	4.8871	5.0358	20000	19910	ug/L	0	10	
Sodium	R	7.5802	7.1765	20000	20830	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3108070	-2.49

87511783032

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87511783033
Cal : 87511783001
File : 122107r
Caldate : 21-DEC-2007
IDF : 1.0
Time : 21-DEC-2007 11:45

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1385]	2.000	0.1170	ug/L	!ib
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.198]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	[1.133]	5.000	0.7500	ug/L	!ib
Thallium	A	[2.845]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	[29.41]	100.0	24.86	ug/L	!ib
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[159.1]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3150804	-1.15

!=warning ib=instrument blank

87511783033

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 87511783042
Cal : 87511783001
Standards: S7715

File : 122107r
Caldate : 21-DEC-2007

IDF : 1.0
Time : 21-DEC-2007 12:15

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	529.8	ug/L	6	20	
Arsenic	A	500.0	527.5	ug/L	6	20	
Barium	A	500.0	529.2	ug/L	6	20	
Beryllium	A	500.0	530.9	ug/L	6	20	
Cadmium	A	1000	1020	ug/L	2	20	
Chromium	A	500.0	511.6	ug/L	2	20	
Cobalt	A	500.0	487.0	ug/L	-3	20	
Copper	A	500.0	484.2	ug/L	-3	20	
Lead	A	1000	972.6	ug/L	-3	20	
Manganese	A	500.0	469.8	ug/L	-6	20	
Molybdenum	A	500.0	520.9	ug/L	4	20	
Nickel	A	1000	998.8	ug/L	0	20	
Selenium	A	500.0	520.3	ug/L	4	20	
Silver	A	1000	1080	ug/L	8	20	
Thallium	A	500.0	450.5	ug/L	-10	20	
Titanium	A	20000	19830	ug/L	-1		
Vanadium	A	500.0	541.4	ug/L	8	20	
Zinc	A	1000	1026	ug/L	3	20	
Aluminum	R	500000	580600	ug/L	16		
Calcium	R	500000	570800	ug/L	14		
Iron	R	200000	224000	ug/L	12		
Magnesium	R	500000	574900	ug/L	15		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	2844043	-10.77

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87511783044
Cal : 87511783001
Standards: S7983

File : 122107r
Caldate : 21-DEC-2007

IDF : 1.0
Time : 21-DEC-2007 12:19

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	33.909	5000	5062	ug/L	1	10	
Arsenic	A	23.911	24.860	5000	5047	ug/L	1	10	
Barium	A	429.84	408.44	5000	4988	ug/L	0	10	
Beryllium	A	3012.6	3041.3	500.0	495.4	ug/L	-1	10	
Boron	A	161.19	165.01	5000	5090	ug/L	2	10	
Cadmium	A	325.60	324.61	5000	5053	ug/L	1	10	
Chromium	A	65.700	63.991	5000	4884	ug/L	-2	10	
Cobalt	A	125.06	121.61	5000	4920	ug/L	-2	10	
Copper	A	393.50	370.83	5000	4867	ug/L	-3	10	
Lead	A	53.365	56.047	5000	4948	ug/L	-1	10	
Manganese	A	1347.0	1278.0	5000	4943	ug/L	-1	10	
Molybdenum	A	38.694	39.449	5000	5161	ug/L	3	10	
Nickel	A	45.478	43.465	5000	4947	ug/L	-1	10	
Selenium	A	35.603	36.851	5000	5024	ug/L	0	10	
Silver	A	445.94	459.83	1000	1006	ug/L	1	10	
Thallium	A	17.334	15.447	5000	4865	ug/L	-3	10	
Tin	A	27.303	28.623	5000	5053	ug/L	1	10	
Titanium	A	1088.3	1074.5	5000	5020	ug/L	0	10	
Vanadium	A	104.02	101.15	5000	4951	ug/L	-1	10	
Zinc	A	185.91	115.72	5000	4980	ug/L	0	10	
Aluminum	R	1.1110	1.0353	20000	21370	ug/L	7	10	
Calcium	R	17.956	15.124	20000	21690	ug/L	8	10	
Iron	R	9.7494	9.6766	20000	21790	ug/L	9	10	
Magnesium	R	2.4014	2.4264	20000	22110	ug/L	**11**	10	c+ ***
Potassium	R	4.8871	5.0569	20000	20000	ug/L	0	10	
Sodium	R	7.5802	7.3349	20000	21290	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3080302	-3.36

+=high bias c=CCV

87511783044

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87511783045 File : 122107r
Cal : 87511783001 Caldate : 21-DEC-2007
IDF : 1.0
Time : 21-DEC-2007 12:23

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[15.85]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.034]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[3.862]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3160962	-0.83

!=warning ib=instrument blank

87511783045

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 87511783056
Cal : 87511783001
Standards: S7983

File : 122107r
Caldate : 21-DEC-2007

IDF : 1.0
Time : 21-DEC-2007 13:17

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	32.815	5000	4898	ug/L	-2	10	
Arsenic	A	23.911	24.159	5000	4904	ug/L	-2	10	
Barium	A	429.84	399.84	5000	4883	ug/L	-2	10	
Beryllium	A	3012.6	2995.1	500.0	487.8	ug/L	-2	10	
Boron	A	161.19	160.93	5000	4964	ug/L	-1	10	
Cadmium	A	325.60	314.94	5000	4902	ug/L	-2	10	
Chromium	A	65.700	62.704	5000	4786	ug/L	-4	10	
Cobalt	A	125.06	118.99	5000	4814	ug/L	-4	10	
Copper	A	393.50	360.04	5000	4725	ug/L	-6	10	
Lead	A	53.365	53.966	5000	4765	ug/L	-5	10	
Manganese	A	1347.0	1246.9	5000	4823	ug/L	-4	10	
Molybdenum	A	38.694	37.436	5000	4897	ug/L	-2	10	
Nickel	A	45.478	42.436	5000	4830	ug/L	-3	10	
Selenium	A	35.603	35.616	5000	4855	ug/L	-3	10	
Silver	A	445.94	448.46	1000	981.2	ug/L	-2	10	
Thallium	A	17.334	15.079	5000	4750	ug/L	-5	10	
Tin	A	27.303	27.802	5000	4908	ug/L	-2	10	
Titanium	A	1088.3	1046.0	5000	4887	ug/L	-2	10	
Vanadium	A	104.02	98.693	5000	4831	ug/L	-3	10	
Zinc	A	185.91	113.26	5000	4874	ug/L	-3	10	
Aluminum	R	1.1110	1.0127	20000	20910	ug/L	5	10	
Calcium	R	17.956	14.895	20000	21360	ug/L	7	10	
Iron	R	9.7494	9.5561	20000	21520	ug/L	8	10	
Magnesium	R	2.4014	2.4066	20000	21930	ug/L	10	10	
Potassium	R	4.8871	5.1263	20000	20270	ug/L	1	10	
Sodium	R	7.5802	7.1752	20000	20820	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3192095	0.15

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783057 File : 122107r Time : 21-DEC-2007 13:22
Cal : 87511783001 Caldate : 21-DEC-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[2.037]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[18.27]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.012]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[1.909]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[149.1]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3230562	1.36

!=warning ib=instrument blank

87511783057

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783069 File : 122107r Time : 21-DEC-2007 14:00
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	33.600	5000	5016	ug/L	0	10	
Arsenic	A	23.911	24.834	5000	5041	ug/L	1	10	
Barium	A	429.84	405.40	5000	4951	ug/L	-1	10	
Beryllium	A	3012.6	3042.9	500.0	495.6	ug/L	-1	10	
Boron	A	161.19	165.37	5000	5101	ug/L	2	10	
Cadmium	A	325.60	324.49	5000	5051	ug/L	1	10	
Chromium	A	65.700	63.594	5000	4853	ug/L	-3	10	
Cobalt	A	125.06	121.52	5000	4916	ug/L	-2	10	
Copper	A	393.50	365.70	5000	4799	ug/L	-4	10	
Lead	A	53.365	55.608	5000	4910	ug/L	-2	10	
Manganese	A	1347.0	1269.1	5000	4909	ug/L	-2	10	
Molybdenum	A	38.694	38.993	5000	5101	ug/L	2	10	
Nickel	A	45.478	43.358	5000	4935	ug/L	-1	10	
Selenium	A	35.603	36.878	5000	5027	ug/L	1	10	
Silver	A	445.94	455.10	1000	995.7	ug/L	0	10	
Thallium	A	17.334	15.412	5000	4854	ug/L	-3	10	
Tin	A	27.303	28.468	5000	5026	ug/L	1	10	
Titanium	A	1088.3	1062.5	5000	4964	ug/L	-1	10	
Vanadium	A	104.02	100.11	5000	4901	ug/L	-2	10	
Zinc	A	185.91	116.42	5000	5010	ug/L	0	10	
Aluminum	R	1.1110	1.0257	20000	21180	ug/L	6	10	
Calcium	R	17.956	15.175	20000	21760	ug/L	9	10	
Iron	R	9.7494	9.7846	20000	22040	ug/L	10	10	
Magnesium	R	2.4014	2.4851	20000	22640	ug/L	**13**	10	c+ ***
Potassium	R	4.8871	5.2642	20000	20820	ug/L	4	10	
Sodium	R	7.5802	7.2878	20000	21150	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3192971	0.18

+=high bias c=CCV

87511783069

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783070 File : 122107r Time : 21-DEC-2007 14:05
Cal : 87511783001 Caldate : 21-DEC-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[2.333]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1392]	2.000	0.1170	ug/L	!ib
Boron	A	[26.45]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.632]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	[0.8676]	5.000	0.7500	ug/L	!ib
Thallium	A	[2.660]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	[56.03]	100.0	24.86	ug/L	!ib
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	[23.35]	200.0	12.20	ug/L	!ib
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[257.0]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3169101	-0.57

!=warning ib=instrument blank

87511783070

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783082 File : 122107r Time : 21-DEC-2007 14:52
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	33.944	5000	5067	ug/L	1	10	
Arsenic	A	23.911	25.247	5000	5125	ug/L	3	10	
Barium	A	429.84	407.79	5000	4980	ug/L	0	10	
Beryllium	A	3012.6	3069.0	500.0	499.9	ug/L	0	10	
Boron	A	161.19	167.50	5000	5167	ug/L	3	10	
Cadmium	A	325.60	329.05	5000	5122	ug/L	2	10	
Chromium	A	65.700	63.941	5000	4880	ug/L	-2	10	
Cobalt	A	125.06	122.66	5000	4963	ug/L	-1	10	
Copper	A	393.50	366.30	5000	4807	ug/L	-4	10	
Lead	A	53.365	56.334	5000	4974	ug/L	-1	10	
Manganese	A	1347.0	1276.1	5000	4936	ug/L	-1	10	
Molybdenum	A	38.694	39.443	5000	5160	ug/L	3	10	
Nickel	A	45.478	44.036	5000	5012	ug/L	0	10	
Selenium	A	35.603	37.924	5000	5170	ug/L	3	10	
Silver	A	445.94	456.01	1000	997.7	ug/L	0	10	
Thallium	A	17.334	15.648	5000	4929	ug/L	-1	10	
Tin	A	27.303	28.874	5000	5097	ug/L	2	10	
Titanium	A	1088.3	1064.4	5000	4973	ug/L	-1	10	
Vanadium	A	104.02	100.73	5000	4931	ug/L	-1	10	
Zinc	A	185.91	118.46	5000	5098	ug/L	2	10	
Aluminum	R	1.1110	1.0144	20000	20940	ug/L	5	10	
Calcium	R	17.956	14.978	20000	21480	ug/L	7	10	
Iron	R	9.7494	9.5005	20000	21400	ug/L	7	10	
Magnesium	R	2.4014	2.4377	20000	22210	ug/L	**11**	10	c+ ***
Potassium	R	4.8871	5.3265	20000	21060	ug/L	5	10	
Sodium	R	7.5802	7.2891	20000	21150	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3309942	3.85

+=high bias c=CCV

87511783082

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87511783083 File : 122107r
Cal : 87511783001 Caldate : 21-DEC-2007
IDF : 1.0
Time : 21-DEC-2007 14:56

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[1.509]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[26.44]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[3.017]	5.000	1.384	ug/L	!ib
Nickel	A	[0.6624]	5.000	0.6463	ug/L	!ib
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[3.226]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3439049	7.90

!=warning ib=instrument blank

87511783083

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783085 File : 122107r Time : 21-DEC-2007 15:03
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7715

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	522.5	ug/L	5	20	
Arsenic	A	500.0	528.6	ug/L	6	20	
Barium	A	500.0	517.2	ug/L	3	20	
Beryllium	A	500.0	522.1	ug/L	4	20	
Cadmium	A	1000	1024	ug/L	2	20	
Chromium	A	500.0	507.0	ug/L	1	20	
Cobalt	A	500.0	488.0	ug/L	-2	20	
Copper	A	500.0	472.2	ug/L	-6	20	
Lead	A	1000	982.9	ug/L	-2	20	
Manganese	A	500.0	461.5	ug/L	-8	20	
Molybdenum	A	500.0	519.0	ug/L	4	20	
Nickel	A	1000	999.3	ug/L	0	20	
Selenium	A	500.0	505.0	ug/L	1	20	
Silver	A	1000	1054	ug/L	5	20	
Thallium	A	500.0	452.3	ug/L	-10	20	
Titanium	A	20000	19600	ug/L	-2		
Vanadium	A	500.0	522.9	ug/L	5	20	
Zinc	A	1000	1029	ug/L	3	20	
Aluminum	R	500000	531500	ug/L	6		
Calcium	R	500000	531700	ug/L	6		
Iron	R	200000	205400	ug/L	3		
Magnesium	R	500000	532400	ug/L	6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3054984	-4.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783087 File : 122107r Time : 21-DEC-2007 15:10
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	34.031	5000	5080	ug/L	2	10	
Arsenic	A	23.911	25.268	5000	5129	ug/L	3	10	
Barium	A	429.84	409.25	5000	4998	ug/L	0	10	
Beryllium	A	3012.6	3066.2	500.0	499.4	ug/L	0	10	
Boron	A	161.19	168.65	5000	5203	ug/L	4	10	
Cadmium	A	325.60	332.27	5000	5172	ug/L	3	10	
Chromium	A	65.700	64.165	5000	4897	ug/L	-2	10	
Cobalt	A	125.06	123.20	5000	4985	ug/L	0	10	
Copper	A	393.50	368.75	5000	4839	ug/L	-3	10	
Lead	A	53.365	56.483	5000	4987	ug/L	0	10	
Manganese	A	1347.0	1282.4	5000	4960	ug/L	-1	10	
Molybdenum	A	38.694	39.821	5000	5209	ug/L	4	10	
Nickel	A	45.478	44.425	5000	5057	ug/L	1	10	
Selenium	A	35.603	38.117	5000	5196	ug/L	4	10	
Silver	A	445.94	457.80	1000	1002	ug/L	0	10	
Thallium	A	17.334	15.379	5000	4844	ug/L	-3	10	
Tin	A	27.303	28.796	5000	5083	ug/L	2	10	
Titanium	A	1088.3	1069.4	5000	4996	ug/L	0	10	
Vanadium	A	104.02	101.45	5000	4966	ug/L	-1	10	
Zinc	A	185.91	119.16	5000	5128	ug/L	3	10	
Aluminum	R	1.1110	1.0030	20000	20710	ug/L	4	10	
Calcium	R	17.956	14.836	20000	21280	ug/L	6	10	
Iron	R	9.7494	9.4098	20000	21190	ug/L	6	10	
Magnesium	R	2.4014	2.4040	20000	21910	ug/L	10	10	
Potassium	R	4.8871	5.3025	20000	20970	ug/L	5	10	
Sodium	R	7.5802	7.1654	20000	20800	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3319651	4.15

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783088 File : 122107r Time : 21-DEC-2007 15:14
Cal : 87511783001 Caldate : 21-DEC-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[3.045]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[30.10]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[3.291]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[4.622]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	[91.66]	100.0	24.86	ug/L	!ib
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	[19.63]	200.0	12.20	ug/L	!ib
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[118.8]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3348497	5.06

!=warning ib=instrument blank

87511783088

00163

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783090 File : 122107r Time : 21-DEC-2007 15:39
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7715

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	516.3	ug/L	3	20	
Arsenic	A	500.0	536.7	ug/L	7	20	
Barium	A	500.0	519.3	ug/L	4	20	
Beryllium	A	500.0	526.3	ug/L	5	20	
Cadmium	A	1000	1019	ug/L	2	20	
Chromium	A	500.0	508.5	ug/L	2	20	
Cobalt	A	500.0	488.5	ug/L	-2	20	
Copper	A	500.0	473.6	ug/L	-5	20	
Lead	A	1000	986.7	ug/L	-1	20	
Manganese	A	500.0	463.0	ug/L	-7	20	
Molybdenum	A	500.0	518.0	ug/L	4	20	
Nickel	A	1000	995.4	ug/L	0	20	
Selenium	A	500.0	515.5	ug/L	3	20	
Silver	A	1000	1060	ug/L	6	20	
Thallium	A	500.0	439.9	ug/L	-12	20	
Titanium	A	20000	19670	ug/L	-2		
Vanadium	A	500.0	525.9	ug/L	5	20	
Zinc	A	1000	1028	ug/L	3	20	
Aluminum	R	500000	531900	ug/L	6		
Calcium	R	500000	524500	ug/L	5		
Iron	R	200000	206200	ug/L	3		
Magnesium	R	500000	532200	ug/L	6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3045409	-4.45

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783091 File : 122107r Time : 21-DEC-2007 15:43
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	33.487	5000	4999	ug/L	0	10	
Arsenic	A	23.911	24.794	5000	5033	ug/L	1	10	
Barium	A	429.84	406.43	5000	4964	ug/L	-1	10	
Beryllium	A	3012.6	3054.9	500.0	497.6	ug/L	0	10	
Boron	A	161.19	165.59	5000	5108	ug/L	2	10	
Cadmium	A	325.60	325.98	5000	5074	ug/L	1	10	
Chromium	A	65.700	63.702	5000	4862	ug/L	-3	10	
Cobalt	A	125.06	121.86	5000	4930	ug/L	-1	10	
Copper	A	393.50	365.65	5000	4799	ug/L	-4	10	
Lead	A	53.365	55.304	5000	4883	ug/L	-2	10	
Manganese	A	1347.0	1271.0	5000	4916	ug/L	-2	10	
Molybdenum	A	38.694	38.625	5000	5053	ug/L	1	10	
Nickel	A	45.478	43.768	5000	4982	ug/L	0	10	
Selenium	A	35.603	37.099	5000	5057	ug/L	1	10	
Silver	A	445.94	453.89	1000	993.0	ug/L	-1	10	
Thallium	A	17.334	15.067	5000	4746	ug/L	-5	10	
Tin	A	27.303	28.267	5000	4990	ug/L	0	10	
Titanium	A	1088.3	1062.8	5000	4965	ug/L	-1	10	
Vanadium	A	104.02	100.67	5000	4928	ug/L	-1	10	
Zinc	A	185.91	117.03	5000	5037	ug/L	1	10	
Aluminum	R	1.1110	0.9938	20000	20520	ug/L	3	10	
Calcium	R	17.956	14.715	20000	21100	ug/L	6	10	
Iron	R	9.7494	9.3318	20000	21020	ug/L	5	10	
Magnesium	R	2.4014	2.3769	20000	21660	ug/L	8	10	
Potassium	R	4.8871	5.2468	20000	20750	ug/L	4	10	
Sodium	R	7.5802	6.9182	20000	20080	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3345725	4.97

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783092 File : 122107r Time : 21-DEC-2007 15:47
Cal : 87511783001 Caldate : 21-DEC-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[1.841]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	[24.47]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.939]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[2.643]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	[65.07]	100.0	24.86	ug/L	!ib
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	[69.55]	500.0	69.01	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3321188	4.20

!=warning ib=instrument blank

87511783092

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783097 File : 122107r Time : 21-DEC-2007 16:35
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7715

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	520.0	ug/L	4	20	
Arsenic	A	500.0	533.8	ug/L	7	20	
Barium	A	500.0	530.8	ug/L	6	20	
Beryllium	A	500.0	534.0	ug/L	7	20	
Cadmium	A	1000	1019	ug/L	2	20	
Chromium	A	500.0	515.8	ug/L	3	20	
Cobalt	A	500.0	486.2	ug/L	-3	20	
Copper	A	500.0	487.8	ug/L	-2	20	
Lead	A	1000	972.9	ug/L	-3	20	
Manganese	A	500.0	471.0	ug/L	-6	20	
Molybdenum	A	500.0	521.5	ug/L	4	20	
Nickel	A	1000	1004	ug/L	0	20	
Selenium	A	500.0	515.5	ug/L	3	20	
Silver	A	1000	1088	ug/L	9	20	
Thallium	A	500.0	463.9	ug/L	-7	20	
Titanium	A	20000	19980	ug/L	0		
Vanadium	A	500.0	543.3	ug/L	9	20	
Zinc	A	1000	1017	ug/L	2	20	
Aluminum	R	500000	515700	ug/L	3		
Calcium	R	500000	500900	ug/L	0		
Iron	R	200000	197900	ug/L	-1		
Magnesium	R	500000	502100	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	2837451	-10.98

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783098 File : 122107r Time : 21-DEC-2007 16:40
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	34.067	5000	5085	ug/L	2	10	
Arsenic	A	23.911	24.919	5000	5059	ug/L	1	10	
Barium	A	429.84	415.40	5000	5073	ug/L	1	10	
Beryllium	A	3012.6	3055.6	500.0	497.7	ug/L	0	10	
Boron	A	161.19	166.06	5000	5123	ug/L	2	10	
Cadmium	A	325.60	325.28	5000	5063	ug/L	1	10	
Chromium	A	65.700	64.654	5000	4934	ug/L	-1	10	
Cobalt	A	125.06	122.81	5000	4969	ug/L	-1	10	
Copper	A	393.50	375.29	5000	4925	ug/L	-1	10	
Lead	A	53.365	56.004	5000	4945	ug/L	-1	10	
Manganese	A	1347.0	1292.1	5000	4997	ug/L	0	10	
Molybdenum	A	38.694	39.259	5000	5136	ug/L	3	10	
Nickel	A	45.478	43.976	5000	5005	ug/L	0	10	
Selenium	A	35.603	37.065	5000	5053	ug/L	1	10	
Silver	A	445.94	465.35	1000	1018	ug/L	2	10	
Thallium	A	17.334	15.649	5000	4929	ug/L	-1	10	
Tin	A	27.303	28.755	5000	5076	ug/L	2	10	
Titanium	A	1088.3	1084.6	5000	5067	ug/L	1	10	
Vanadium	A	104.02	102.37	5000	5011	ug/L	0	10	
Zinc	A	185.91	115.91	5000	4988	ug/L	0	10	
Aluminum	R	1.1110	1.0152	20000	20960	ug/L	5	10	
Calcium	R	17.956	14.844	20000	21290	ug/L	6	10	
Iron	R	9.7494	9.4535	20000	21290	ug/L	6	10	
Magnesium	R	2.4014	2.3562	20000	21470	ug/L	7	10	
Potassium	R	4.8871	5.2882	20000	20910	ug/L	5	10	
Sodium	R	7.5802	7.1377	20000	20720	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3066023	-3.81

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783099 File : 122107r Time : 21-DEC-2007 16:44
Cal : 87511783001 Caldate : 21-DEC-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	ND	5.000	1.387	ug/L	
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.2103]	2.000	0.1170	ug/L	!ib
Boron	A	[16.74]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.943]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[3.520]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	[0.6243]	5.000	0.6065	ug/L	!ib
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3113989	-2.30

!=warning ib=instrument blank

87511783099

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783101 File : 122107r Time : 21-DEC-2007 16:58
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7715

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	527.2	ug/L	5	20	
Arsenic	A	500.0	536.0	ug/L	7	20	
Barium	A	500.0	535.1	ug/L	7	20	
Beryllium	A	500.0	533.8	ug/L	7	20	
Cadmium	A	1000	1047	ug/L	5	20	
Chromium	A	500.0	516.1	ug/L	3	20	
Cobalt	A	500.0	496.0	ug/L	-1	20	
Copper	A	500.0	491.3	ug/L	-2	20	
Lead	A	1000	1011	ug/L	1	20	
Manganese	A	500.0	475.1	ug/L	-5	20	
Molybdenum	A	500.0	531.4	ug/L	6	20	
Nickel	A	1000	1013	ug/L	1	20	
Selenium	A	500.0	520.7	ug/L	4	20	
Silver	A	1000	1088	ug/L	9	20	
Thallium	A	500.0	454.2	ug/L	-9	20	
Titanium	A	20000	20300	ug/L	1		
Vanadium	A	500.0	534.2	ug/L	7	20	
Zinc	A	1000	1043	ug/L	4	20	
Aluminum	R	500000	519700	ug/L	4		
Calcium	R	500000	513500	ug/L	3		
Iron	R	200000	203000	ug/L	2		
Magnesium	R	500000	522100	ug/L	4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	2768168	-13.15

87511783101

09178

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783102 File : 122107r Time : 21-DEC-2007 17:02
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	34.302	5000	5120	ug/L	2	10	
Arsenic	A	23.911	25.075	5000	5090	ug/L	2	10	
Barium	A	429.84	421.61	5000	5149	ug/L	3	10	
Beryllium	A	3012.6	3122.4	500.0	508.6	ug/L	2	10	
Boron	A	161.19	169.48	5000	5228	ug/L	5	10	
Cadmium	A	325.60	331.88	5000	5166	ug/L	3	10	
Chromium	A	65.700	65.775	5000	5020	ug/L	0	10	
Cobalt	A	125.06	125.06	5000	5060	ug/L	1	10	
Copper	A	393.50	381.84	5000	5011	ug/L	0	10	
Lead	A	53.365	56.482	5000	4987	ug/L	0	10	
Manganese	A	1347.0	1313.5	5000	5080	ug/L	2	10	
Molybdenum	A	38.694	39.629	5000	5184	ug/L	4	10	
Nickel	A	45.478	44.663	5000	5084	ug/L	2	10	
Selenium	A	35.603	37.174	5000	5068	ug/L	1	10	
Silver	A	445.94	472.52	1000	1034	ug/L	3	10	
Thallium	A	17.334	15.723	5000	4952	ug/L	-1	10	
Tin	A	27.303	28.910	5000	5104	ug/L	2	10	
Titanium	A	1088.3	1102.0	5000	5148	ug/L	3	10	
Vanadium	A	104.02	103.92	5000	5087	ug/L	2	10	
Zinc	A	185.91	118.55	5000	5102	ug/L	2	10	
Aluminum	R	1.1110	1.1571	20000	23890	ug/L	**19**	10	c+ ***
Calcium	R	17.956	17.072	20000	24480	ug/L	**22**	10	c+ ***
Iron	R	9.7494	10.927	20000	24610	ug/L	**23**	10	c+ ***
Magnesium	R	2.4014	2.7453	20000	25020	ug/L	**25**	10	c+ ***
Potassium	R	4.8871	6.0510	20000	23930	ug/L	**20**	10	c+ ***
Sodium	R	7.5802	8.0609	20000	23390	ug/L	**17**	10	c+ ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3078413	-3.42

+=high bias c=CCV

87511783102

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87511783104
Cal : 87511783001
File : 122107r
Caldate : 21-DEC-2007
IDF : 1.0
Time : 21-DEC-2007 17:08

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[1.466]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1727]	2.000	0.1170	ug/L	!ib
Boron	A	[18.14]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.491]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[4.170]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3154779	-1.02

!=warning ib=instrument blank

87511783104

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783113 File : 122107r Time : 21-DEC-2007 18:26
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	34.818	5000	5197	ug/L	4	10	
Arsenic	A	23.911	25.519	5000	5180	ug/L	4	10	
Barium	A	429.84	415.43	5000	5074	ug/L	1	10	
Beryllium	A	3012.6	3080.1	500.0	501.7	ug/L	0	10	
Boron	A	161.19	169.16	5000	5218	ug/L	4	10	
Cadmium	A	325.60	335.12	5000	5217	ug/L	4	10	
Chromium	A	65.700	64.928	5000	4955	ug/L	-1	10	
Cobalt	A	125.06	124.43	5000	5034	ug/L	1	10	
Copper	A	393.50	375.15	5000	4923	ug/L	-2	10	
Lead	A	53.365	57.399	5000	5068	ug/L	1	10	
Manganese	A	1347.0	1299.5	5000	5026	ug/L	1	10	
Molybdenum	A	38.694	39.834	5000	5211	ug/L	4	10	
Nickel	A	45.478	44.814	5000	5101	ug/L	2	10	
Selenium	A	35.603	38.084	5000	5192	ug/L	4	10	
Silver	A	445.94	464.27	1000	1016	ug/L	2	10	
Thallium	A	17.334	15.447	5000	4866	ug/L	-3	10	
Tin	A	27.303	29.239	5000	5162	ug/L	3	10	
Titanium	A	1088.3	1084.5	5000	5067	ug/L	1	10	
Vanadium	A	104.02	102.78	5000	5031	ug/L	1	10	
Zinc	A	185.91	119.78	5000	5155	ug/L	3	10	
Aluminum	R	1.1110	1.0581	20000	21840	ug/L	9	10	
Calcium	R	17.956	15.459	20000	22170	ug/L	**11**	10	c+ ***
Iron	R	9.7494	9.8904	20000	22280	ug/L	**11**	10	c+ ***
Magnesium	R	2.4014	2.4718	20000	22520	ug/L	**13**	10	c+ ***
Potassium	R	4.8871	5.4690	20000	21620	ug/L	8	10	
Sodium	R	7.5802	7.1781	20000	20830	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3189642	0.07

+=high bias c=CCV

87511783113

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783116 File : 122107r Time : 21-DEC-2007 18:33
Cal : 87511783001 Caldate : 21-DEC-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[2.076]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.2793]	2.000	0.1170	ug/L	!ib
Boron	A	[16.37]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.951]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	[1.814]	5.000	0.7500	ug/L	!ib
Thallium	A	[2.659]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	ND	500.0	46.44	ug/L	
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3157356	-0.94

!=warning ib=instrument blank

87511783116

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783122 File : 122107r Time : 21-DEC-2007 18:53
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7715

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	535.6	ug/L	7	20	
Arsenic	A	500.0	543.2	ug/L	9	20	
Barium	A	500.0	531.2	ug/L	6	20	
Beryllium	A	500.0	526.6	ug/L	5	20	
Cadmium	A	1000	1068	ug/L	7	20	
Chromium	A	500.0	515.8	ug/L	3	20	
Cobalt	A	500.0	496.4	ug/L	-1	20	
Copper	A	500.0	492.0	ug/L	-2	20	
Lead	A	1000	1014	ug/L	1	20	
Manganese	A	500.0	475.7	ug/L	-5	20	
Molybdenum	A	500.0	542.2	ug/L	8	20	
Nickel	A	1000	1019	ug/L	2	20	
Selenium	A	500.0	525.5	ug/L	5	20	
Silver	A	1000	1084	ug/L	8	20	
Thallium	A	500.0	440.6	ug/L	-12	20	
Titanium	A	20000	20070	ug/L	0		
Vanadium	A	500.0	537.9	ug/L	8	20	
Zinc	A	1000	1044	ug/L	4	20	
Aluminum	R	500000	532600	ug/L	7		
Calcium	R	500000	521600	ug/L	4		
Iron	R	200000	205200	ug/L	3		
Magnesium	R	500000	522700	ug/L	5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	2878138	-9.70

87511783122

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783123 File : 122107r Time : 21-DEC-2007 18:58
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	34.029	5000	5080	ug/L	2	10	
Arsenic	A	23.911	24.780	5000	5030	ug/L	1	10	
Barium	A	429.84	408.15	5000	4985	ug/L	0	10	
Beryllium	A	3012.6	3005.6	500.0	489.6	ug/L	-2	10	
Boron	A	161.19	164.98	5000	5089	ug/L	2	10	
Cadmium	A	325.60	328.46	5000	5113	ug/L	2	10	
Chromium	A	65.700	63.614	5000	4855	ug/L	-3	10	
Cobalt	A	125.06	121.53	5000	4917	ug/L	-2	10	
Copper	A	393.50	372.06	5000	4883	ug/L	-2	10	
Lead	A	53.365	56.065	5000	4950	ug/L	-1	10	
Manganese	A	1347.0	1279.1	5000	4947	ug/L	-1	10	
Molybdenum	A	38.694	39.367	5000	5150	ug/L	3	10	
Nickel	A	45.478	43.607	5000	4963	ug/L	-1	10	
Selenium	A	35.603	36.974	5000	5040	ug/L	1	10	
Silver	A	445.94	457.85	1000	1002	ug/L	0	10	
Thallium	A	17.334	14.903	5000	4694	ug/L	-6	10	
Tin	A	27.303	28.354	5000	5006	ug/L	0	10	
Titanium	A	1088.3	1073.4	5000	5015	ug/L	0	10	
Vanadium	A	104.02	101.14	5000	4951	ug/L	-1	10	
Zinc	A	185.91	115.48	5000	4970	ug/L	-1	10	
Aluminum	R	1.1110	1.0728	20000	22150	ug/L	**11**	10	c+ ***
Calcium	R	17.956	15.398	20000	22080	ug/L	10	10	
Iron	R	9.7494	9.7732	20000	22010	ug/L	10	10	
Magnesium	R	2.4014	2.3871	20000	21750	ug/L	9	10	
Potassium	R	4.8871	5.4748	20000	21650	ug/L	8	10	
Sodium	R	7.5802	7.2381	20000	21010	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3199205	0.37

+=high bias c=CCV

87511783123

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 87511783125
Cal : 87511783001
File : 122107r
Caldate : 21-DEC-2007
IDF : 1.0
Time : 21-DEC-2007 19:04

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[1.819]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.2342]	2.000	0.1170	ug/L	!ib
Boron	A	[19.27]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.027]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	[2.198]	5.000	1.986	ug/L	!ib
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[4.618]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	[32.70]	100.0	24.86	ug/L	!ib
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	[72.49]	500.0	46.44	ug/L	!ib
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3252200	2.03

!=warning ib=instrument blank

87511783125

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783132 File : 122107r Time : 21-DEC-2007 19:40
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7715

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	530.0	ug/L	6	20	
Arsenic	A	500.0	539.7	ug/L	8	20	
Barium	A	500.0	527.5	ug/L	6	20	
Beryllium	A	500.0	522.2	ug/L	4	20	
Cadmium	A	1000	1060	ug/L	6	20	
Chromium	A	500.0	510.5	ug/L	2	20	
Cobalt	A	500.0	495.3	ug/L	-1	20	
Copper	A	500.0	485.3	ug/L	-3	20	
Lead	A	1000	1008	ug/L	1	20	
Manganese	A	500.0	472.2	ug/L	-6	20	
Molybdenum	A	500.0	535.1	ug/L	7	20	
Nickel	A	1000	1017	ug/L	2	20	
Selenium	A	500.0	511.4	ug/L	2	20	
Silver	A	1000	1077	ug/L	8	20	
Thallium	A	500.0	430.0	ug/L	-14	20	
Titanium	A	20000	19850	ug/L	-1		
Vanadium	A	500.0	532.8	ug/L	7	20	
Zinc	A	1000	1042	ug/L	4	20	
Aluminum	R	500000	526000	ug/L	5		
Calcium	R	500000	514400	ug/L	3		
Iron	R	200000	200900	ug/L	0		
Magnesium	R	500000	510600	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	2976348	-6.62

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783133 File : 122107r Time : 21-DEC-2007 19:44
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	34.595	5000	5164	ug/L	3	10	
Arsenic	A	23.911	25.388	5000	5154	ug/L	3	10	
Barium	A	429.84	408.80	5000	4993	ug/L	0	10	
Beryllium	A	3012.6	3018.2	500.0	491.6	ug/L	-2	10	
Boron	A	161.19	165.59	5000	5108	ug/L	2	10	
Cadmium	A	325.60	336.04	5000	5231	ug/L	5	10	
Chromium	A	65.700	63.889	5000	4876	ug/L	-2	10	
Cobalt	A	125.06	122.67	5000	4963	ug/L	-1	10	
Copper	A	393.50	373.56	5000	4902	ug/L	-2	10	
Lead	A	53.365	57.311	5000	5060	ug/L	1	10	
Manganese	A	1347.0	1286.6	5000	4976	ug/L	0	10	
Molybdenum	A	38.694	39.928	5000	5223	ug/L	4	10	
Nickel	A	45.478	44.186	5000	5029	ug/L	1	10	
Selenium	A	35.603	38.041	5000	5186	ug/L	4	10	
Silver	A	445.94	458.97	1000	1004	ug/L	0	10	
Thallium	A	17.334	15.067	5000	4746	ug/L	-5	10	
Tin	A	27.303	28.893	5000	5101	ug/L	2	10	
Titanium	A	1088.3	1076.8	5000	5031	ug/L	1	10	
Vanadium	A	104.02	101.91	5000	4989	ug/L	0	10	
Zinc	A	185.91	117.69	5000	5065	ug/L	1	10	
Aluminum	R	1.1110	1.1167	20000	23060	ug/L	**15**	10	c+ ***
Calcium	R	17.956	16.107	20000	23100	ug/L	**15**	10	c+ ***
Iron	R	9.7494	10.243	20000	23070	ug/L	**15**	10	c+ ***
Magnesium	R	2.4014	2.5265	20000	23020	ug/L	**15**	10	c+ ***
Potassium	R	4.8871	5.6872	20000	22490	ug/L	**12**	10	c+ ***
Sodium	R	7.5802	7.3666	20000	21380	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3249890	1.96

+=high bias c=CCV

87511783133

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783135 File : 122107r Time : 21-DEC-2007 19:49
Cal : 87511783001 Caldate : 21-DEC-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[2.572]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.2061]	2.000	0.1170	ug/L	!ib
Boron	A	[17.92]	100.0	15.00	ug/L	!ib
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.510]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	[1.355]	5.000	0.7500	ug/L	!ib
Thallium	A	[1.871]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	[183.9]	500.0	46.44	ug/L	!ib
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3249778	1.96

!=warning ib=instrument blank

87511783135

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783145 File : 122107r Time : 21-DEC-2007 21:07
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	34.906	5000	5211	ug/L	4	10	
Arsenic	A	23.911	25.420	5000	5160	ug/L	3	10	
Barium	A	429.84	411.31	5000	5023	ug/L	0	10	
Beryllium	A	3012.6	3029.8	500.0	493.5	ug/L	-1	10	
Boron	A	161.19	167.32	5000	5162	ug/L	3	10	
Cadmium	A	325.60	342.72	5000	5335	ug/L	7	10	
Chromium	A	65.700	64.517	5000	4924	ug/L	-2	10	
Cobalt	A	125.06	123.87	5000	5011	ug/L	0	10	
Copper	A	393.50	377.83	5000	4958	ug/L	-1	10	
Lead	A	53.365	57.711	5000	5095	ug/L	2	10	
Manganese	A	1347.0	1298.8	5000	5023	ug/L	0	10	
Molybdenum	A	38.694	40.583	5000	5309	ug/L	6	10	
Nickel	A	45.478	44.727	5000	5091	ug/L	2	10	
Selenium	A	35.603	38.039	5000	5186	ug/L	4	10	
Silver	A	445.94	463.66	1000	1014	ug/L	1	10	
Thallium	A	17.334	14.712	5000	4634	ug/L	-7	10	
Tin	A	27.303	28.923	5000	5106	ug/L	2	10	
Titanium	A	1088.3	1086.1	5000	5074	ug/L	1	10	
Vanadium	A	104.02	102.96	5000	5040	ug/L	1	10	
Zinc	A	185.91	119.38	5000	5138	ug/L	3	10	
Aluminum	R	1.1110	1.0592	20000	21870	ug/L	9	10	
Calcium	R	17.956	15.261	20000	21880	ug/L	9	10	
Iron	R	9.7494	9.7123	20000	21880	ug/L	9	10	
Magnesium	R	2.4014	2.3823	20000	21710	ug/L	9	10	
Potassium	R	4.8871	5.3437	20000	21130	ug/L	6	10	
Sodium	R	7.5802	7.0809	20000	20550	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3259483	2.26

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783146 File : 122107r Time : 21-DEC-2007 21:12
Cal : 87511783001 Caldate : 21-DEC-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[2.766]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	ND	2.000	0.1170	ug/L	
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	ND	5.000	0.3555	ug/L	
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[1.807]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[3.521]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	ND	100.0	24.86	ug/L	
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	ND	200.0	12.20	ug/L	
Potassium	R	[55.89]	500.0	46.44	ug/L	!ib
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3366450	5.62

!=warning ib=instrument blank

87511783146

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783155 File : 122107r Time : 21-DEC-2007 21:41
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7715

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	522.1	ug/L	4	20	
Arsenic	A	500.0	537.3	ug/L	7	20	
Barium	A	500.0	522.9	ug/L	5	20	
Beryllium	A	500.0	518.7	ug/L	4	20	
Cadmium	A	1000	1066	ug/L	7	20	
Chromium	A	500.0	505.3	ug/L	1	20	
Cobalt	A	500.0	490.9	ug/L	-2	20	
Copper	A	500.0	483.0	ug/L	-3	20	
Lead	A	1000	1005	ug/L	0	20	
Manganese	A	500.0	469.9	ug/L	-6	20	
Molybdenum	A	500.0	538.7	ug/L	8	20	
Nickel	A	1000	1009	ug/L	1	20	
Selenium	A	500.0	515.1	ug/L	3	20	
Silver	A	1000	1068	ug/L	7	20	
Thallium	A	500.0	424.9	ug/L	-15	20	
Titanium	A	20000	19700	ug/L	-2		
Vanadium	A	500.0	529.6	ug/L	6	20	
Zinc	A	1000	1034	ug/L	3	20	
Aluminum	R	500000	557500	ug/L	12		
Calcium	R	500000	533900	ug/L	7		
Iron	R	200000	211200	ug/L	6		
Magnesium	R	500000	529000	ug/L	6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	2992884	-6.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783157 File : 122107r Time : 21-DEC-2007 21:46
Cal : 87511783001 Caldate : 21-DEC-2007
Standards: S7983

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	32.071	35.163	5000	5249	ug/L	5	10	
Arsenic	A	23.911	25.716	5000	5220	ug/L	4	10	
Barium	A	429.84	413.20	5000	5046	ug/L	1	10	
Beryllium	A	3012.6	3059.4	500.0	498.3	ug/L	0	10	
Boron	A	161.19	169.57	5000	5231	ug/L	5	10	
Cadmium	A	325.60	349.19	5000	5436	ug/L	9	10	
Chromium	A	65.700	64.813	5000	4946	ug/L	-1	10	
Cobalt	A	125.06	125.26	5000	5068	ug/L	1	10	
Copper	A	393.50	378.67	5000	4969	ug/L	-1	10	
Lead	A	53.365	57.916	5000	5113	ug/L	2	10	
Manganese	A	1347.0	1309.7	5000	5065	ug/L	1	10	
Molybdenum	A	38.694	41.739	5000	5460	ug/L	9	10	
Nickel	A	45.478	45.303	5000	5157	ug/L	3	10	
Selenium	A	35.603	38.367	5000	5230	ug/L	5	10	
Silver	A	445.94	464.67	1000	1017	ug/L	2	10	
Thallium	A	17.334	14.868	5000	4683	ug/L	-6	10	
Tin	A	27.303	29.110	5000	5139	ug/L	3	10	
Titanium	A	1088.3	1091.1	5000	5097	ug/L	2	10	
Vanadium	A	104.02	103.39	5000	5061	ug/L	1	10	
Zinc	A	185.91	121.69	5000	5237	ug/L	5	10	
Aluminum	R	1.1110	1.0741	20000	22170	ug/L	**11**	10	c+ ***
Calcium	R	17.956	15.416	20000	22110	ug/L	**11**	10	c+ ***
Iron	R	9.7494	9.8672	20000	22220	ug/L	**11**	10	c+ ***
Magnesium	R	2.4014	2.4143	20000	22000	ug/L	10	10	
Potassium	R	4.8871	5.3323	20000	21080	ug/L	5	10	
Sodium	R	7.5802	6.9803	20000	20260	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3285005	3.06

+=high bias c=CCV

87511783157

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 87511783158 File : 122107r Time : 21-DEC-2007 21:50
Cal : 87511783001 Caldate : 21-DEC-2007

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	0.9637	ug/L	
Arsenic	A	[1.718]	5.000	1.387	ug/L	!ib
Barium	A	ND	5.000	0.3212	ug/L	
Beryllium	A	[0.1746]	2.000	0.1170	ug/L	!ib
Boron	A	ND	100.0	15.00	ug/L	
Cadmium	A	[0.4657]	5.000	0.3555	ug/L	!ib
Chromium	A	ND	5.000	0.3298	ug/L	
Cobalt	A	ND	5.000	0.3112	ug/L	
Copper	A	ND	5.000	1.577	ug/L	
Lead	A	ND	3.000	1.150	ug/L	
Manganese	A	ND	5.000	0.5779	ug/L	
Molybdenum	A	[2.319]	5.000	1.384	ug/L	!ib
Nickel	A	ND	5.000	0.6463	ug/L	
Selenium	A	ND	5.000	1.986	ug/L	
Silver	A	ND	5.000	0.7500	ug/L	
Thallium	A	[3.049]	5.000	1.131	ug/L	!ib
Tin	A	ND	40.00	2.773	ug/L	
Titanium	A	ND	10.00	1.013	ug/L	
Vanadium	A	ND	5.000	0.6065	ug/L	
Zinc	A	ND	20.00	3.056	ug/L	
Aluminum	R	[48.78]	100.0	24.86	ug/L	!ib
Calcium	R	ND	200.0	63.70	ug/L	
Iron	R	ND	100.0	8.057	ug/L	
Magnesium	R	[15.29]	200.0	12.20	ug/L	!ib
Potassium	R	[183.1]	500.0	46.44	ug/L	!ib
Sodium	R	ND	500.0	69.01	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3187361	3314245	3.98

!=warning ib=instrument blank

87511783158

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97518966 Instrument: MET09 PE ICP MET09 Begun: 26-DEC-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL		Stds Used	>LR
001	122607r	ICALBLK				26-DEC-2007 09:26	1.0	1.0					
002	122607r	ICAL	CRIM08			26-DEC-2007 09:31	1.0	1.0				1	
003	122607r	ICAL	CS100			26-DEC-2007 09:35	1.0	1.0				2	
004	122607r	ICAL	CS1K			26-DEC-2007 09:39	1.0	1.0				3	
005	122607r	ICAL	CS10K			26-DEC-2007 09:42	1.0	1.0				4	
006	122607r	ICAL	CS100K			26-DEC-2007 09:47	1.0	1.0				5	
007	122607r	ICV				26-DEC-2007 10:01	1.0	1.0			5000	6	
008	122607r	ICB				26-DEC-2007 10:12	1.0	1.0			5000		
009	122607r	ICSA				26-DEC-2007 10:17	1.0	1.0			5000	7	10:MG=507000
010	122607r	ICSAB				26-DEC-2007 10:22	1.0	1.0			5000	8	5:MG=495656
011	122607r	MSS	200073-001	133134	Soil	26-DEC-2007 10:26	1.0	46.73	7		5000		6:FE=300541
012	122607r	MSS	200073-001	133134	Soil	26-DEC-2007 10:31	20.0	46.73	1		5000		
013	122607r	SER	QC421494	133134	Soil	26-DEC-2007 10:34	5.0	45.87		2	5000		1:ZN=11114.4
014	122607r	SER	QC421494	133134	Soil	26-DEC-2007 10:40	100.0	45.87		6	5000		
015	122607r	PDS	QC421495	133134	Soil	26-DEC-2007 10:43	20.0	45.87			5000	9 10	
016	122607r	SAMPLE	200027-001	133134	Soil	26-DEC-2007 10:48	1.0	45.87	2		5000		5:FE=1107546
017	122607r	SAMPLE	200027-001	133134	Soil	26-DEC-2007 10:53	20.0	45.87			5000		
018	122607r	SAMPLE	200027-003	133134	Soil	26-DEC-2007 10:56	1.0	47.62			5000		4:FE=402235
019	122607r	X				26-DEC-2007 10:59	1.0	1.0			5000	11	
020	122607r	CCV				26-DEC-2007 11:00	1.0	1.0			5000	11	
021	122607r	X				26-DEC-2007 11:05	1.0						
022	122607r	X	CCB CUP LOW			26-DEC-2007 11:08	1.0						
023	122607r	X	RERUN			26-DEC-2007 11:11	1.0						
024	122607r	X				26-DEC-2007 11:16	1.0						
025	122607r	X				26-DEC-2007 11:19	1.0						
026	122607r	X				26-DEC-2007 11:22	1.0						
027	122607r	X				26-DEC-2007 11:30	1.0						
028	122607r	CCB				26-DEC-2007 11:39	1.0	1.0			5000		
029	122607r	SAMPLE	200027-004	133134	Soil	26-DEC-2007 11:44	1.0	47.17			5000		2:FE=231179
030	122607r	SAMPLE	200027-005	133134	Soil	26-DEC-2007 11:48	1.0	45.87			5000		3:FE=306831
031	122607r	ICSAB				26-DEC-2007 11:50	1.0	1.0			5000	8	5:MG=479048

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S7715 9=S6918 10=S6919 11=S7983

Analyst: _____ Date: 12/20/14

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 97518966 Instrument: MET09 PE ICP MET09 Begun: 26-DEC-2007
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	122607r	CCV				26-DEC-2007 11:55	1.0	1.0	5000	11	
033	122607r	X				26-DEC-2007 12:00	1.0				
034	122607r	CCB				26-DEC-2007 12:10	1.0	1.0	5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S7715 9=S6918 10=S6919 11=S7983

Analyst: _____ Date: 12/26/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 97518966001
Units : ug/L

Date : 26-DEC-2007 09:26
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122607r	97518966002	CRIM08	26-DEC-2007 09:31	S7555
L2	122607r	97518966003	CS100	26-DEC-2007 09:35	S7713
L3	122607r	97518966004	CS1K	26-DEC-2007 09:39	S7712
L4	122607r	97518966005	CS10K	26-DEC-2007 09:42	S7714
L5	122607r	97518966006	CS100K	26-DEC-2007 09:47	S7674

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	19.230	29.015	29.628	30.540		LOR0	0.00000	0.03275		27.103	1.000	0.995	
Arsenic	A	15.105	10.907	10.909	10.595		LOR0	0.00000	0.09436		11.879	1.000	0.995	
Barium	A	97.872	98.270	97.431	96.055		LOR0	0.00000	0.01041		97.407	1.000	0.995	
Beryllium	A	4416.0	4185.0	4243.7			LOR0	0.00000	2.36E-4		4281.6	1.000	0.995	
Boron	A	213.40		204.93	211.17		LOR0	0.00000	0.00474		209.84	1.000	0.995	
Cadmium	A	178.67	180.43	181.13	176.92		LOR0	0.00000	0.00565		179.29	1.000	0.995	
Chromium	A	159.14	196.11	193.64	192.57		LOR0	0.00000	0.00519		185.36	1.000	0.995	
Cobalt	A	58.190	56.380	59.172	58.602		LOR0	0.00000	0.01706		58.086	1.000	0.995	
Copper	A	189.51	182.54	186.61	187.30		LOR0	0.00000	0.00534		186.49	1.000	0.995	
Lead	A	58.277	57.725	59.361	58.505		LOR0	0.00000	0.01709		58.467	1.000	0.995	
Manganese	A	488.25	584.98	584.29	566.58		LOR0	0.00000	0.00176		556.02	1.000	0.995	
Molybdenum	A	48.840	46.389	46.385	45.288		LOR0	0.00000	0.02208		46.726	1.000	0.995	
Nickel	A	84.721	98.986	101.29	101.16		LOR0	0.00000	0.00988		96.540	1.000	0.995	
Selenium	A	20.529	15.041	15.271	15.485		LOR0	0.00000	0.06459		16.582	1.000	0.995	
Silver	A	510.11	568.65	576.12	573.99		LOR0	0.00000	0.00174		557.22	1.000	0.995	
Thallium	A	13.296	11.891	12.240	12.017		LOR0	0.00000	0.08320		12.361	1.000	0.995	
Tin	A	21.893	21.360	21.170	22.705		LOR0	0.00000	0.04407		21.782	1.000	0.995	
Titanium	A	736.13	779.78	780.47	761.70		LOR0	0.00000	0.00131		764.52	1.000	0.995	
Vanadium	A	200.36	212.16	211.85	215.78		LOR0	0.00000	0.00464		210.04	1.000	0.995	
Zinc	A	211.21	89.784	84.534	84.205		LOR0	0.00000	0.01188		117.43	1.000	0.995	
Aluminum	R	0.4099		0.6531	0.6812	0.6909	LOR0	0.00000	1.44751		0.6088	1.000	0.995	
Calcium	R	12.699		6.9602	6.6351	6.4321	LOR0	0.00000	0.15542		8.1817	1.000	0.995	
Iron	R	4.3218		4.3286	4.4099	4.3115	LOR0	0.00000	0.23189		4.3429	1.000	0.995	
Magnesium	R	0.7362		0.8004	0.8267	0.8008	LOR0	0.00000	1.24829		0.7910	1.000	0.995	
Potassium	R	2.8079		2.8046	2.7717	2.8090	LOR0	0.00000	0.35604		2.7983	1.000	0.995	
Sodium	R	270.76		291.15	301.17	297.57	LOR0	0.00000	0.00336		290.16	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-37	100.0	-5	1000	-3	10000	0		
Arsenic	A	5.000	43	100.0	3	1000	3	10000	0		
Barium	A	5.000	2	100.0	2	1000	1	10000	0		
Beryllium	A	2.000	4	100.0	-1	1000	0				
Boron	A	100.0	1			1000	-3	10000	0		
Cadmium	A	5.000	1	100.0	2	1000	2	10000	0		
Chromium	A	5.000	-17	100.0	2	1000	1	10000	0		
Cobalt	A	5.000	-1	100.0	-4	1000	1	10000	0		
Copper	A	5.000	1	100.0	-3	1000	0	10000	0		
Lead	A	3.000	0	100.0	-1	1000	1	10000	0		
Manganese	A	5.000	-14	100.0	3	1000	3	10000	0		
Molybdenum	A	5.000	8	100.0	2	1000	2	10000	0		
Nickel	A	5.000	-16	100.0	-2	1000	0	10000	0		
Selenium	A	5.000	33	100.0	-3	1000	-1	10000	0		
Silver	A	5.000	-11	100.0	-1	1000	0	2000	0		
Thallium	A	5.000	11	100.0	-1	1000	2	10000	0		
Tin	A	40.00	-4	100.0	-6	1000	-7	10000	0		
Titanium	A	10.00	-3	100.0	2	1000	2	10000	0		
Vanadium	A	5.000	-7	100.0	-2	1000	-2	10000	0		
Zinc	A	20.00	151	100.0	7	1000	0	10000	0		
Aluminum	R	100.0	-41			1000	-5	10000	-1	100000	0
Calcium	R	200.0	97			1000	8	10000	3	100000	0
Iron	R	100.0	0			1000	0	10000	2	100000	0
Magnesium	R	200.0	-8			1000	0	10000	3	100000	0
Potassium	R	500.0	0			1000	0	10000	-1	100000	0
Sodium	R	500.0	-9			1000	-2	10000	1	100000	0

994 80

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/26/2007 9:26:53 AM
Data Type: Reprocessed on 12/26/2007 10:21:08 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-5968.5	298.47	5.00%	[0.00]	ug/L
Al 308.215 R	56.3	3.10	5.51%	[0.00]	ug/L
As 188.979	-59.6	4.38	7.34%	[0.00]	ug/L
B 249.677	-1945.6	14.89	0.77%	[0.00]	ug/L
Ba 233.527	82.1	2.07	2.52%	[0.00]	ug/L
Be 313.107	-413.2	98.40	23.81%	[0.00]	ug/L
Ca 315.887 R	741.6	26.07	3.52%	[0.00]	ug/L
Cd 214.440	-101.7	6.38	6.28%	[0.00]	ug/L
Co 228.616	-2.0	4.91	249.80%	[0.00]	ug/L
Cr 267.716	169.5	26.02	15.35%	[0.00]	ug/L
Cu 324.752	3462.0	100.04	2.89%	[0.00]	ug/L
Fe 238.204 R	51.9	1.32	2.55%	[0.00]	ug/L
K 766.490 R	-703.8	129.20	18.36%	[0.00]	ug/L
Mg 279.077 R	-230.8	3.69	1.60%	[0.00]	ug/L
Mn 257.610	256.1	7.01	2.74%	[0.00]	ug/L
Mo 202.031	-6.5	2.87	44.49%	[0.00]	ug/L
Na 589.592 R	59840.1	1038.67	1.74%	[0.00]	ug/L
Ni 231.604	924.2	1.27	0.14%	[0.00]	ug/L
Pb 220.353	-317.6	7.90	2.49%	[0.00]	ug/L
Sb 206.836	321.7	90.37	28.09%	[0.00]	ug/L
Se 196.026	41.8	17.74	42.41%	[0.00]	ug/L
Ti 334.940 R	2039.3	121.95	5.98%	[0.00]	ug/L
Tl 190.801	8.6	6.19	71.70%	[0.00]	ug/L
V 292.402	-898.7	24.40	2.72%	[0.00]	ug/L
Zn 206.200	404.1	4.90	1.21%	[0.00]	ug/L
Sn 189.927	-6.2	4.12	66.50%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/26/2007 9:31:17 AM
Data Type: Reprocessed on 12/26/2007 10:21:09 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3361563.3	3593.40	0.11%	100.0	%
Y	229500.9	2342.93	1.02%	100.0	%
Ag 328.068†	2550.5	240.78	9.44%	[5.0]	ug/L
Al 308.215 R†	41.0	6.85	16.71%	[100]	ug/L
As 188.979†	75.5	18.27	24.19%	[5.0]	ug/L
B 249.677†	21340.3	396.15	1.86%	[100]	ug/L
Ba 233.527†	489.4	3.51	0.72%	[5.0]	ug/L
Be 313.107†	8832.1	108.50	1.23%	[2.0]	ug/L
Ca 315.887 R†	2539.9	29.67	1.17%	[200]	ug/L
Cd 214.440†	893.4	5.82	0.65%	[5.0]	ug/L
Co 228.616†	290.9	7.19	2.47%	[5.0]	ug/L
Cr 267.716†	795.7	11.07	1.39%	[5.0]	ug/L
Cu 324.752†	947.5	21.18	2.24%	[5.0]	ug/L
Fe 238.204 R†	432.2	5.60	1.30%	[100]	ug/L
K 766.490 R†	1404.0	143.71	10.24%	[500]	ug/L
Mg 279.077 R†	147.2	2.86	1.94%	[200]	ug/L
Mn 257.610†	2441.2	20.92	0.86%	[5.0]	ug/L
Mo 202.031†	244.2	4.50	1.84%	[5.0]	ug/L
Na 589.592 R†	135381.2	1002.14	0.74%	[500]	ug/L
Ni 231.604†	423.6	16.07	3.79%	[5.0]	ug/L
Pb 220.353†	174.8	30.14	17.24%	[3.0]	ug/L
Sb 206.836†	96.1	12.71	13.22%	[5.0]	ug/L
Se 196.026†	102.6	24.67	24.04%	[5.0]	ug/L
Ti 334.940 R†	7361.3	190.05	2.58%	[10]	ug/L
Tl 190.801†	66.5	7.20	10.83%	[5.0]	ug/L
V 292.402†	1001.8	38.15	3.81%	[5.0]	ug/L
Zn 206.200†	4224.1	24.34	0.58%	[20]	ug/L
Sn 189.927†	875.7	6.22	0.71%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/26/2007 9:35:46 AM
Data Type: Reprocessed on 12/26/2007 10:21:10 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3377213.1	49658.25	1.47%	100.5	%
Y	227224.2	3075.04	1.35%	99.01	%
Ag 328.068†	56865.3	1512.77	2.66%	[100]	ug/L
As 188.979†	1090.7	15.49	1.42%	[100]	ug/L
Ba 233.527†	9827.0	342.62	3.49%	[100]	ug/L
Be 313.107†	418495.7	961.44	0.23%	[100]	ug/L
Cd 214.440†	18042.8	621.60	3.45%	[100]	ug/L
Co 228.616†	5638.0	89.69	1.59%	[100]	ug/L
Cr 267.716†	19611.0	606.31	3.09%	[100]	ug/L
Cu 324.752†	18253.8	647.16	3.55%	[100]	ug/L
Mn 257.610†	58498.0	1891.31	3.23%	[100]	ug/L
Mo 202.031†	4638.9	56.87	1.23%	[100]	ug/L
Ni 231.604†	9898.6	388.10	3.92%	[100]	ug/L
Pb 220.353†	5772.5	93.65	1.62%	[100]	ug/L
Sb 206.836†	2901.5	6.23	0.21%	[100]	ug/L
Se 196.026†	1504.1	6.47	0.43%	[100]	ug/L
Ti 334.940 R†	77977.6	2567.43	3.29%	[100]	ug/L
Tl 190.801†	1189.1	16.23	1.36%	[100]	ug/L
V 292.402†	21215.7	559.56	2.64%	[100]	ug/L
Zn 206.200†	8978.4	111.26	1.24%	[100]	ug/L
Sn 189.927†	2136.0	135.67	6.35%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 12/26/2007 9:39:18 AM
Data Type: Reprocessed on 12/26/2007 10:21:11 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3378839.2	27512.63	0.81%	100.5	%
Y	227307.7	3425.39	1.51%	99.04	%
Ag 328.068†	576115.3	2888.17	0.50%	[1000]	ug/L
Al 308.215 R†	653.1	47.04	7.20%	[1000]	ug/L
As 188.979†	10909.4	193.10	1.77%	[1000]	ug/L
B 249.677†	204934.3	919.66	0.45%	[1000]	ug/L
Ba 233.527†	97431.3	491.71	0.50%	[1000]	ug/L
Be 313.107†	4243662.6	16671.84	0.39%	[1000]	ug/L
Ca 315.887 R†	6960.2	107.42	1.54%	[1000]	ug/L
Cd 214.440†	181126.8	895.23	0.49%	[1000]	ug/L
Co 228.616†	59171.5	450.93	0.76%	[1000]	ug/L
Cr 267.716†	193639.9	899.22	0.46%	[1000]	ug/L
Cu 324.752†	186614.5	1324.45	0.71%	[1000]	ug/L
Fe 238.204 R†	4328.6	55.54	1.28%	[1000]	ug/L
K 766.490 R†	2804.6	72.34	2.58%	[1000]	ug/L
Mg 279.077 R†	800.4	2.61	0.33%	[1000]	ug/L
Mn 257.610†	584288.2	3396.18	0.58%	[1000]	ug/L
Mo 202.031†	46384.8	621.96	1.34%	[1000]	ug/L
Na 589.592 R†	291151.8	1029.82	0.35%	[1000]	ug/L
Ni 231.604†	101290.0	515.44	0.51%	[1000]	ug/L
Pb 220.353†	59361.5	1038.43	1.75%	[1000]	ug/L
Sb 206.836†	29627.7	515.01	1.74%	[1000]	ug/L
Se 196.026†	15270.8	204.54	1.34%	[1000]	ug/L
Ti 334.940 R†	780472.7	3964.22	0.51%	[1000]	ug/L
Tl 190.801†	12240.3	293.87	2.40%	[1000]	ug/L
V 292.402†	211850.2	866.39	0.41%	[1000]	ug/L
Zn 206.200†	84533.6	411.69	0.49%	[1000]	ug/L
Sn 189.927†	21170.2	336.35	1.59%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/26/2007 9:42:56 AM
Data Type: Reprocessed on 12/26/2007 10:21:13 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3241070.9	30288.65	0.93%	96.42	%
Y	216163.7	4002.89	1.85%	94.19	%
Ag 328.068†	1147979.7	7275.29	0.63%	[2000]	ug/L
Al 308.215 R†	6812.5	144.17	2.12%	[10000]	ug/L
As 188.979†	105945.3	1831.79	1.73%	[10000]	ug/L
B 249.677†	2111703.2	12488.31	0.59%	[10000]	ug/L
Ba 233.527†	960550.9	7187.43	0.75%	[10000]	ug/L
Ca 315.887 R†	66351.1	1084.78	1.63%	[10000]	ug/L
Cd 214.440†	1769228.9	12117.34	0.68%	[10000]	ug/L
Co 228.616†	586021.0	3997.85	0.68%	[10000]	ug/L
Cr 267.716†	1925715.7	13424.75	0.70%	[10000]	ug/L
Cu 324.752†	1873030.6	17921.09	0.96%	[10000]	ug/L
Fe 238.204 R†	44098.5	614.84	1.39%	[10000]	ug/L
K 766.490 R†	27717.4	257.75	0.93%	[10000]	ug/L
Mg 279.077 R†	8267.0	159.25	1.93%	[10000]	ug/L
Mn 257.610†	5665760.2	29955.92	0.53%	[10000]	ug/L
Mo 202.031†	452883.8	4416.48	0.98%	[10000]	ug/L
Na 589.592 R†	3011701.3	16015.72	0.53%	[10000]	ug/L
Ni 231.604†	1011641.8	7068.99	0.70%	[10000]	ug/L
Pb 220.353†	585053.0	7017.53	1.20%	[10000]	ug/L
Sb 206.836†	305395.5	3794.02	1.24%	[10000]	ug/L
Se 196.026†	154851.8	1902.67	1.23%	[10000]	ug/L
Ti 334.940 R†	7617010.5	48481.43	0.64%	[10000]	ug/L
Tl 190.801†	120170.6	1295.44	1.08%	[10000]	ug/L
V 292.402†	2157766.7	15165.19	0.70%	[10000]	ug/L
Zn 206.200†	842045.8	6976.82	0.83%	[10000]	ug/L
Sn 189.927†	227049.5	2955.04	1.30%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 12/26/2007 9:47:38 AM
Data Type: Reprocessed on 12/26/2007 10:21:14 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2903086.6	28264.52	0.97%	86.36	%
Y	205245.2	7801.09	3.80%	89.43	%
Al 308.215 Rt	69094.0	3379.20	4.89%	[100000]	ug/L
Ca 315.887 Rt	643209.7	30875.31	4.80%	[100000]	ug/L
Fe 238.204 Rt	431149.9	22258.60	5.16%	[100000]	ug/L
K 766.490 Rt	280904.6	13760.34	4.90%	[100000]	ug/L
Mg 279.077 Rt	80083.7	3492.83	4.36%	[100000]	ug/L
Na 589.592 Rt	29757319.0	1002717.64	3.37%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	574.4	0.00000	0.999999	
Al 308.215 R	4	Lin Thru 0	0.0	0.6908	0.00000	0.999999	
As 188.979	4	Lin Thru 0	0.0	10.60	0.00000	0.999996	
B 249.677	3	Lin Thru 0	0.0	211.1	0.00000	0.999996	
Ba 233.527	4	Lin Thru 0	0.0	96.07	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	4243	0.00000	0.999999	
Ca 315.887 R	4	Lin Thru 0	0.0	6.434	0.00000	0.999993	
Cd 214.440	4	Lin Thru 0	0.0	177.0	0.00000	0.999997	
Co 228.616	4	Lin Thru 0	0.0	58.61	0.00000	0.999999	
Cr 267.716	4	Lin Thru 0	0.0	192.6	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	187.3	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	4.312	0.00000	0.999997	
K 766.490 R	4	Lin Thru 0	0.0	2.809	0.00000	0.999999	
Mg 279.077 R	4	Lin Thru 0	0.0	0.8011	0.00000	0.999995	
Mn 257.610	4	Lin Thru 0	0.0	566.8	0.00000	0.999995	
Mo 202.031	4	Lin Thru 0	0.0	45.30	0.00000	0.999997	
Na 589.592 R	4	Lin Thru 0	0.0	297.6	0.00000	0.999999	
Ni 231.604	4	Lin Thru 0	0.0	101.2	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	58.51	0.00000	0.999999	
Sb 206.836	4	Lin Thru 0	0.0	30.53	0.00000	0.999995	
Se 196.026	4	Lin Thru 0	0.0	15.48	0.00000	0.999999	
Ti 334.940 R	4	Lin Thru 0	0.0	761.9	0.00000	0.999997	
Tl 190.801	4	Lin Thru 0	0.0	12.02	0.00000	0.999998	
V 292.402	4	Lin Thru 0	0.0	215.7	0.00000	0.999998	
Zn 206.200	4	Lin Thru 0	0.0	84.21	0.00000	0.999995	
Sn 189.927	4	Lin Thru 0	0.0	22.69	0.00000	0.999977	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97518966007 File : 122607r Time : 26-DEC-2007 10:01
Cal : 97518966001 Caldate : 26-DEC-2007
Standards: S7982

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	27.103	29.651	5000	4856	ug/L	-3	10	
Arsenic	A	11.879	10.899	5000	5142	ug/L	3	10	
Barium	A	97.407	95.124	5000	4951	ug/L	-1	10	
Beryllium	A	4281.6	4281.5	500.0	504.5	ug/L	1	10	
Boron	A	209.84	211.09	5000	5000	ug/L	0	10	
Cadmium	A	179.29	175.50	5000	4959	ug/L	-1	10	
Chromium	A	185.36	184.92	5000	4801	ug/L	-4	10	
Cobalt	A	58.086	55.452	5000	4720	ug/L	-6	10	
Copper	A	186.49	178.87	5000	4775	ug/L	-4	10	
Lead	A	58.467	55.236	5000	4720	ug/L	-6	10	
Manganese	A	556.02	551.25	5000	4863	ug/L	-3	10	
Molybdenum	A	46.726	44.282	5000	4888	ug/L	-2	10	
Nickel	A	96.540	96.999	5000	4794	ug/L	-4	10	
Selenium	A	16.582	14.949	5000	4827	ug/L	-3	10	
Silver	A	557.22	552.18	1000	961.3	ug/L	-4	10	
Thallium	A	12.361	11.555	5000	4807	ug/L	-4	10	
Tin	A	21.782	22.033	5000	4855	ug/L	-3	10	
Titanium	A	764.52	759.60	5000	4985	ug/L	0	10	
Vanadium	A	210.04	209.13	5000	4847	ug/L	-3	10	
Zinc	A	117.43	81.910	5000	4864	ug/L	-3	10	
Aluminum	R	0.6088	0.6522	20000	18880	ug/L	-6	10	
Calcium	R	8.1817	6.3145	20000	19630	ug/L	-2	10	
Iron	R	4.3429	4.2275	20000	19610	ug/L	-2	10	
Magnesium	R	0.7910	0.8021	20000	20030	ug/L	0	10	
Potassium	R	2.7983	2.6255	20000	18700	ug/L	-7	10	
Sodium	R	290.16	288.14	20000	19360	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3361563	3308176	-1.59

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97518966008 File : 122607r IDF : 1.0
Cal : 97518966001 Caldate : 26-DEC-2007 Time : 26-DEC-2007 10:12

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.142]	5.000	1.074	ug/L	!ib
Arsenic	A	[3.103]	5.000	1.320	ug/L	!ib
Barium	A	ND	5.000	0.1113	ug/L	
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	[11.20]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.3627]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	[0.3193]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[1.668]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[0.6051]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	[1.795]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3361563	3659972	8.88

!=warning ib=instrument blank

97518966008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97518966009 File : 122607r Time : 26-DEC-2007 10:17
Cal : 97518966001 Caldate : 26-DEC-2007
Standards: S7557

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[-3.358]	5.000	ug/L	
Arsenic	A	[-0.07633]	5.000	ug/L	
Barium	A	[-2.205]	5.000	ug/L	
Beryllium	A	[-0.9309]	2.000	ug/L	
Boron	A	142.1	100.0	ug/L	
Cadmium	A	[1.814]	5.000	ug/L	
Cobalt	A	[4.162]	5.000	ug/L	
Lead	A	[0.3256]	3.000	ug/L	
Molybdenum	A	[-0.6327]	5.000	ug/L	
Selenium	A	[-2.162]	5.000	ug/L	
Silver	A	[0.6342]	5.000	ug/L	
Thallium	A	5.233	5.000	ug/L	
Tin	A	[-18.43]	40.00	ug/L	
Zinc	A	[4.497]	20.00	ug/L	
Potassium	R	[115.4]	500.0	ug/L	
Sodium	R	[-52.80]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19230	ug/L	96
Copper	A	20000	20350	ug/L	102
Manganese	A	20000	18600	ug/L	93
Nickel	A	20000	17850	ug/L	89
Titanium	A	20000	19870	ug/L	99
Vanadium	A	20000	20060	ug/L	100
Aluminum	R	500000	487000	ug/L	97
Calcium	R	500000	494600	ug/L	99
Iron	R	200000	190400	ug/L	95
Magnesium	R	500000	507000	ug/L	101

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3361563	2989109	-11.08

97518966009

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97518966010 File : 122607r Time : 26-DEC-2007 10:22
Cal : 97518966001 Caldate : 26-DEC-2007
Standards: S7715

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	556.4	ug/L	11	20	
Arsenic	A	500.0	545.2	ug/L	9	20	
Barium	A	500.0	534.6	ug/L	7	20	
Beryllium	A	500.0	548.4	ug/L	10	20	
Cadmium	A	1000	1007	ug/L	1	20	
Chromium	A	500.0	506.4	ug/L	1	20	
Cobalt	A	500.0	466.6	ug/L	-7	20	
Copper	A	500.0	542.3	ug/L	8	20	
Lead	A	1000	941.4	ug/L	-6	20	
Manganese	A	500.0	519.4	ug/L	4	20	
Molybdenum	A	500.0	533.3	ug/L	7	20	
Nickel	A	1000	940.5	ug/L	-6	20	
Selenium	A	500.0	540.3	ug/L	8	20	
Silver	A	1000	1083	ug/L	8	20	
Thallium	A	500.0	443.2	ug/L	-11	20	
Titanium	A	20000	20400	ug/L	2		
Vanadium	A	500.0	531.5	ug/L	6	20	
Zinc	A	1000	1012	ug/L	1	20	
Aluminum	R	500000	485000	ug/L	-3		
Calcium	R	500000	478800	ug/L	-4		
Iron	R	200000	184900	ug/L	-8		
Magnesium	R	500000	495700	ug/L	-1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3361563	2904154	-13.61

97518966010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 97518966020
Cal : 97518966001
Standards: S7983

File : 122607r
Caldate : 26-DEC-2007

IDF : 1.0
Time : 26-DEC-2007 11:00

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.103	29.056	5000	4759	ug/L	-5	10	
Arsenic	A	11.879	11.069	5000	5222	ug/L	4	10	
Barium	A	97.407	94.620	5000	4925	ug/L	-2	10	
Beryllium	A	4281.6	4224.2	500.0	497.8	ug/L	0	10	
Boron	A	209.84	209.67	5000	4966	ug/L	-1	10	
Cadmium	A	179.29	174.11	5000	4919	ug/L	-2	10	
Chromium	A	185.36	183.38	5000	4761	ug/L	-5	10	
Cobalt	A	58.086	56.417	5000	4802	ug/L	-4	10	
Copper	A	186.49	178.17	5000	4757	ug/L	-5	10	
Lead	A	58.467	56.155	5000	4798	ug/L	-4	10	
Manganese	A	556.02	540.36	5000	4767	ug/L	-5	10	
Molybdenum	A	46.726	46.826	5000	5169	ug/L	3	10	
Nickel	A	96.540	96.622	5000	4775	ug/L	-4	10	
Selenium	A	16.582	15.337	5000	4953	ug/L	-1	10	
Silver	A	557.22	545.99	1000	950.5	ug/L	-5	10	
Thallium	A	12.361	11.740	5000	4884	ug/L	-2	10	
Tin	A	21.782	22.381	5000	4932	ug/L	-1	10	
Titanium	A	764.52	749.98	5000	4922	ug/L	-2	10	
Vanadium	A	210.04	206.39	5000	4783	ug/L	-4	10	
Zinc	A	117.43	82.129	5000	4877	ug/L	-2	10	
Aluminum	R	0.6088	0.6438	20000	18640	ug/L	-7	10	
Calcium	R	8.1817	6.2984	20000	19580	ug/L	-2	10	
Iron	R	4.3429	4.1827	20000	19400	ug/L	-3	10	
Magnesium	R	0.7910	0.8150	20000	20350	ug/L	2	10	
Potassium	R	2.7983	2.5669	20000	18280	ug/L	-9	10	
Sodium	R	290.16	280.18	20000	18830	ug/L	-6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3361563	3455534	2.80

97518966020

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97518966028 File : 122607r IDF : 1.0
Cal : 97518966001 Caldate : 26-DEC-2007 Time : 26-DEC-2007 11:39

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[1.812]	5.000	1.320	ug/L	!ib
Barium	A	ND	5.000	0.1113	ug/L	
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	[6.933]	100.0	3.849	ug/L	!ib
Cadmium	A	ND	5.000	0.1091	ug/L	
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[1.678]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	ND	5.000	0.4140	ug/L	
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[21.25]	100.0	6.086	ug/L	!ib
Magnesium	R	[52.02]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3361563	3602666	7.17

!=warning ib=instrument blank

97518966028

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 97518966031 File : 122607r Time : 26-DEC-2007 11:50
Cal : 97518966001 Caldate : 26-DEC-2007
Standards: S7715

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	525.5	ug/L	5	20	
Arsenic	A	500.0	524.3	ug/L	5	20	
Barium	A	500.0	516.3	ug/L	3	20	
Beryllium	A	500.0	526.7	ug/L	5	20	
Cadmium	A	1000	962.0	ug/L	-4	20	
Chromium	A	500.0	489.0	ug/L	-2	20	
Cobalt	A	500.0	447.8	ug/L	-10	20	
Copper	A	500.0	526.9	ug/L	5	20	
Lead	A	1000	896.4	ug/L	-10	20	
Manganese	A	500.0	501.8	ug/L	0	20	
Molybdenum	A	500.0	512.2	ug/L	2	20	
Nickel	A	1000	904.0	ug/L	-10	20	
Selenium	A	500.0	503.9	ug/L	1	20	
Silver	A	1000	1049	ug/L	5	20	
Thallium	A	500.0	421.4	ug/L	-16	20	
Titanium	A	20000	19940	ug/L	0		
Vanadium	A	500.0	514.6	ug/L	3	20	
Zinc	A	1000	971.3	ug/L	-3	20	
Aluminum	R	500000	470000	ug/L	-6		
Calcium	R	500000	466700	ug/L	-7		
Iron	R	200000	178500	ug/L	-11		
Magnesium	R	500000	479000	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3361563	2941104	-12.51

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 97518966032
Cal : 97518966001
Standards: S7983

File : 122607r
Caldate : 26-DEC-2007

IDF : 1.0
Time : 26-DEC-2007 11:55

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	27.103	29.555	5000	4840	ug/L	-3	10	
Arsenic	A	11.879	11.258	5000	5311	ug/L	6	10	
Barium	A	97.407	96.034	5000	4998	ug/L	0	10	
Beryllium	A	4281.6	4279.2	500.0	504.3	ug/L	1	10	
Boron	A	209.84	209.42	5000	4960	ug/L	-1	10	
Cadmium	A	179.29	179.41	5000	5069	ug/L	1	10	
Chromium	A	185.36	185.65	5000	4820	ug/L	-4	10	
Cobalt	A	58.086	57.554	5000	4899	ug/L	-2	10	
Copper	A	186.49	177.91	5000	4749	ug/L	-5	10	
Lead	A	58.467	56.877	5000	4860	ug/L	-3	10	
Manganese	A	556.02	549.47	5000	4847	ug/L	-3	10	
Molybdenum	A	46.726	45.786	5000	5054	ug/L	1	10	
Nickel	A	96.540	98.297	5000	4858	ug/L	-3	10	
Selenium	A	16.582	15.532	5000	5016	ug/L	0	10	
Silver	A	557.22	545.81	1000	950.2	ug/L	-5	10	
Thallium	A	12.361	11.788	5000	4904	ug/L	-2	10	
Tin	A	21.782	22.769	5000	5018	ug/L	0	10	
Titanium	A	764.52	756.96	5000	4968	ug/L	-1	10	
Vanadium	A	210.04	208.31	5000	4828	ug/L	-3	10	
Zinc	A	117.43	84.565	5000	5021	ug/L	0	10	
Aluminum	R	0.6088	0.6420	20000	18590	ug/L	-7	10	
Calcium	R	8.1817	6.4496	20000	20050	ug/L	0	10	
Iron	R	4.3429	4.2307	20000	19620	ug/L	-2	10	
Magnesium	R	0.7910	0.8310	20000	20750	ug/L	4	10	
Potassium	R	2.7983	2.5321	20000	18030	ug/L	-10	10	
Sodium	R	290.16	273.89	20000	18410	ug/L	-8	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3361563	3605586	7.26

97518966032

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 97518966034
Cal : 97518966001
File : 122607r
Caldate : 26-DEC-2007
IDF : 1.0
Time : 26-DEC-2007 12:10

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	ND	5.000	0.1113	ug/L	
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	[6.317]	100.0	3.849	ug/L	!ib
Cadmium	A	ND	5.000	0.1091	ug/L	
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	[2.288]	3.000	0.6892	ug/L	!ib
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	ND	5.000	0.4140	ug/L	
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[44.77]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3361563	3732722	11.04

!=warning ib=instrument blank

97518966034

Curtis & Tompkins Laboratories Sample Preparation Summary 26-DEC-2007 08:55

Batch Number : 133134
Date Extracted: 21-DEC-2007
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
200027-001			Blasland, Bouck & Lee	Soil	1.09	g	50	45.871560	1				PP13/ICAP		
200027-002			Blasland, Bouck & Lee	Soil	1.03	g	50	48.543689	1				PP13/ICAP		
200027-003			Blasland, Bouck & Lee	Soil	1.05	g	50	47.619048	1				PP13/ICAP		
200027-004			Blasland, Bouck & Lee	Soil	1.06	g	50	47.169811	1				PP13/ICAP		
200027-005			Blasland, Bouck & Lee	Soil	1.09	g	50	45.871560	1				PP13/ICAP		
200073-001			Mactec, Inc.	Soil	1.07	g	50	46.728972	1				T26/ICP		
200115-001			ConocoPhillips Company	Miscell.	1.03	g	50	48.543689	1				V		
200159-001			ConocoPhillips Company	Miscell.	1.04	g	50	48.076923	1				V		
200159-002			ConocoPhillips Company	Miscell.	1	g	50	50.000000	1				V		
QC421489	BLANK			Soil	1	g	50	50.000000	1				ICAP		
QC421490	BS			Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC421491	BSD			Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC421492	MS	of 200073-001		Soil	1.06	g	50	47.169811	1	.5	.5		ICAP		
QC421493	MSD	of 200073-001		Soil	1.09	g	50	45.871560	1	.5	.5		ICAP		
QC421494	SER	of 200073-001		Soil	1.09	g	50	45.871560	1				ICAP		
QC421495	PDS	of 200073-001		Soil	1.09	g	50	45.871560	1				ICAP		

Prep Chemist: for MCB 12/26/07 Reviewed By: Date: 12/26/07

Relinquished By: Received By: Date: 12/26/07

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 133134
Date Digested: 12/21/07
Digested by: MCB III

Digestion Method
☒ EPA 3050b
☐ _____

BK 2624
Page 47

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	Ø	50	Y	
BS	↓	↓	↓	
BSD	↓			
MS-073-001 N	1.06			
MSD-073-001 ↓	1.09			
~~ES~~ MCB III 12/21/07 200073-001 ↓	1.07			
200027-001 A	1.09			
-002	1.03			
-003	1.05			
-004	1.06			
-005 ↓	1.09			
200115-001 A.B.C	1.03			
200159-001 ↓	1.04			200115-001 ISA CLEAN OF 3 JARS 2 EA
↓ -002 ↓	1.00			200159-001 ↓ -002 ↓ ↓ ↓

	Reagent ID or LIMS #	Initials / Date
Class-A digestion tubes, lot#	4445-A9253-261-108	MCB III 12/21/07
digestion temperature (90 - 95 degrees C)	95°C	↓
.5 mL of spike solution was added to all spikes	96918	
	96919	
Digestion begun at (time)	4:33 PM	
1:1 HNO3	E27027 11/4/07 JT BAKER	
concentrated HNO3	E27027 ↓	
3mL 30% hydrogen peroxide	E26A05	
concentrated HCl	E40060 ↓	
☒ filtered thru' Whatman # 541	H11206690	
Relinquished to ICP group		↓

Michael C Arock III 12/21/07

Continued from page 1
Continued on page

12-24-07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 847510470 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 20-DEC-2007
Analytical Method: EPA 7470A SOP Version: HG_water_rv10
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
01	133051	ICAL	STD03REP1				20-DEC-2007 11:50	1.0	1.0									
02	133051	ICAL	STD04REP1				20-DEC-2007 11:52	1.0	1.0									
03	133051	ICAL	STD05REP1				20-DEC-2007 11:55	1.0	1.0									
04	133051	ICAL	STD06REP1				20-DEC-2007 11:57	1.0	1.0									
05	133051	ICALBLK	STD01REP1				20-DEC-2007 12:00	1.0	1.0									
06	133051	ICAL	STD02REP1				20-DEC-2007 12:02	1.0	1.0									
07	133051	ICV					20-DEC-2007 12:06	1.0	1.0	2	5.000	847510470001	5.100		ug/L	102		
08	133051	ICB					20-DEC-2007 12:08	1.0	1.0			847510470001	ND	0.20	ug/L			
09	133051	BLANK	QC421136		133051	Soil	20-DEC-2007 12:10	1.0	100.0			847510470001	ND	0.020	mg/Kg			u
10	133051	BS	QC421137		133051	Soil	20-DEC-2007 12:12	1.0	100.0		0.5000	847510470001	0.4650	0.020	mg/Kg	93		u
11	133051	BSD	QC421138		133051	Soil	20-DEC-2007 12:14	1.0	100.0		0.5000	847510470001	0.5120	0.020	mg/Kg	102	10	u
12	133051	MSS	200073-001		133051	Soil	20-DEC-2007 12:16	1.0	96.15			847510470001	8.8 >LR	0.020	mg/Kg			>LR b*
13	133051	SER	QC421139	200073-001	133051	Soil	20-DEC-2007 12:19	5.0	96.15			847510470001	ND	0.096	mg/Kg		--	u
14	133051	MS	QC421140	200073-001	133051	Soil	20-DEC-2007 12:21	1.0	96.15		0.4808	847510470001	10.77 >LR	0.020	mg/Kg	402		: >LR c
15	133051	MSD	QC421141	200073-001	133051	Soil	20-DEC-2007 12:23	1.0	102.0		0.5102	847510470001	12.24 >LR	0.020	mg/Kg	668	--	: >LR c
16	133051	SAMPLE	200092-001		133051	Miscel	20-DEC-2007 12:25	1.0	92.59			847510470001	ND	0.020	mg/Kg			u
17	133051	SAMPLE	200112-001		133051	Soil	20-DEC-2007 12:27	1.0	90.91			847510470001	ND	0.020	mg/Kg			u
18	133051	CCV					20-DEC-2007 12:29	1.0	1.0	3	2.500	847510470001	2.100		ug/L	84		
19	133051	CCB					20-DEC-2007 12:32	1.0	1.0			847510470001	ND	0.20	ug/L			
20	133051	MSS	200073-001		133051	Soil	20-DEC-2007 13:23	20.0	96.15			847510470001	7.8	0.38	mg/Kg			u
21	133051	SER	QC421139	200073-001	133051	Soil	20-DEC-2007 13:25	100.0	96.15			847510470001	2.4	1.9	mg/Kg	69		
22	133051	MS	QC421140	200073-001	133051	Soil	20-DEC-2007 13:27	20.0	96.15		0.4808	847510470001	10.33	0.38	mg/Kg	528		:
23	133051	MSD	QC421141	200073-001	133051	Soil	20-DEC-2007 13:29	20.0	102.0		0.5102	847510470001	12.02	0.41	mg/Kg	829	15	:
24	133051	PDS	QC421206	200073-001	133051	Soil	20-DEC-2007 13:31	20.0	96.15	1	9.615	847510470001	7.135	0.38	mg/Kg	-7*		u
25	133051	CCV					20-DEC-2007 13:33	1.0	1.0	4	7.500	847510470001	7.600		ug/L	101		
26	133051	CCB					20-DEC-2007 13:35	1.0	1.0			847510470001	ND	0.20	ug/L			

ISTDs used: 1=S7954 2=S7956 3=S7957 4=S7959
Flags used: *=recovery not meaningful >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 12/20/07

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

st : MET14
lnum : 847510470001
its : ug/L

Date : 20-DEC-2007 11:50
X Axis : R

Reviewer : ---
Type : SOIL

rel	File	Seqnum	Sample ID	Analyzed	Stds
	133051	847510470001	STD03REP1	20-DEC-2007 11:50	S7954 (200X)
	133051	847510470002	STD04REP1	20-DEC-2007 11:52	S7954 (50X)
	133051	847510470003	STD05REP1	20-DEC-2007 11:55	S7954 (20X)
	133051	847510470004	STD06REP1	20-DEC-2007 11:57	S7954 (10X)
	133051	847510470006	STD02REP1	20-DEC-2007 12:02	S7954 (500X)

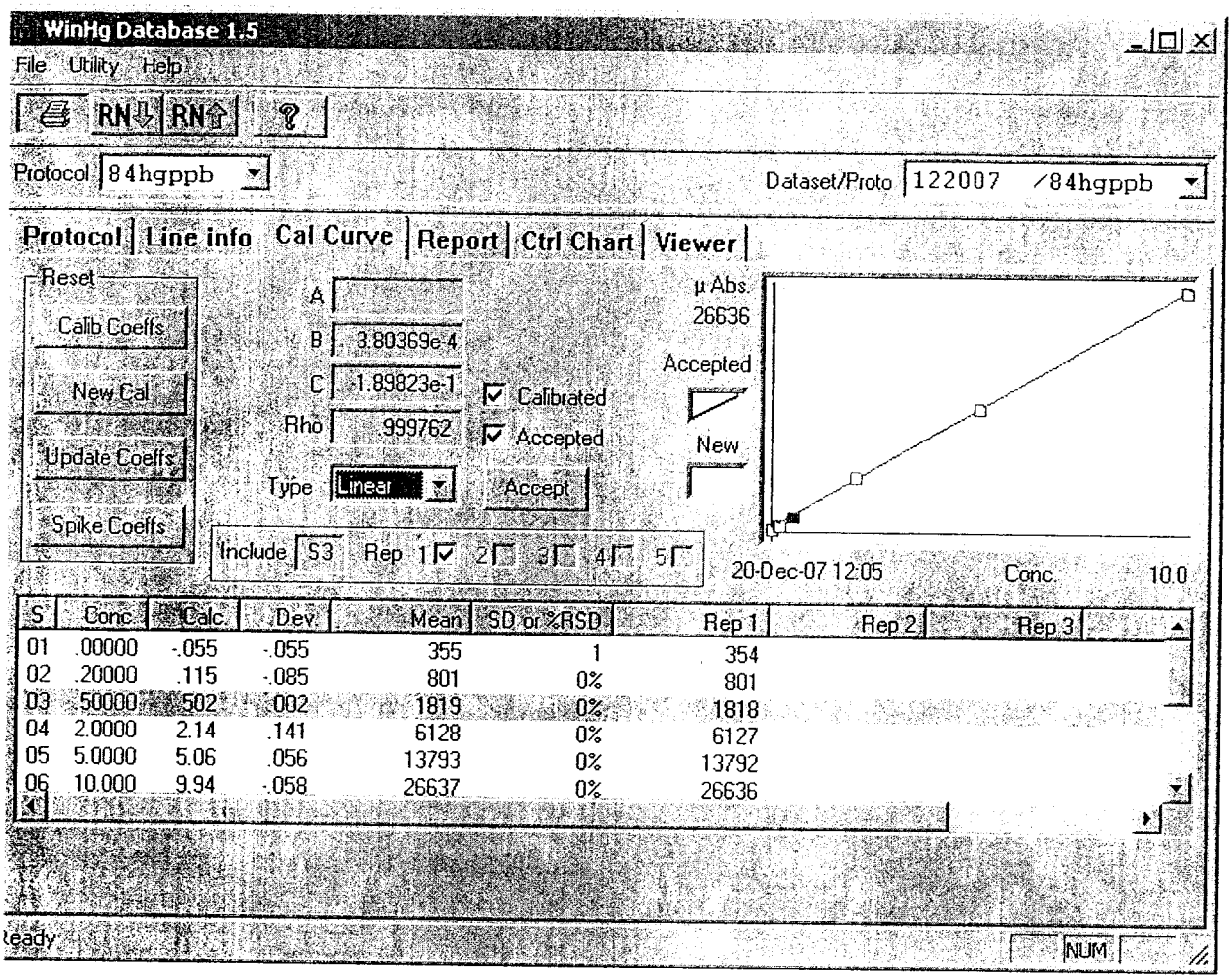
Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
cury	3636.0	3063.5	2758.4	2663.6	4005.0	LINR	-0.1898	3.80E-4		3225.3	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
cury	0.500	0	2.000	7	5.000	1	10.00	-1	0.200	-43

ent amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

1 of 1

847510470001


WinHg Database 1.5
File Utility Help
RN⇩ RN⇧
Protocol 84hgppb
Dataset/Proto 122007 /84hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 3.80369e-4
C 1.89823e-1
Rho 999762
Type Linear
Calibrated
Accepted
Accept
µ Abs.
26636
Accepted
New
Include S3 Rep 1 2 3 4 5
20-Dec-07 12:05
Conc. 10.0
S Conc Calc Dev Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.055 -.055 355 1 354
02 .20000 .115 -.085 801 0% 801
03 .50000 .502 .002 1819 0% 1818
04 2.0000 2.14 .141 6128 0% 6127
05 5.0000 5.06 .056 13793 0% 13792
06 10.000 9.94 -.058 26637 0% 26636
Ready
NUM

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 3 Rep: 1 Seq: 6 11:50:30 20 Dec 07 HG

Hg .500 ppb 1818
Bkgd 1 10116070

*** Standard: 4 Rep: 1 Seq: 7 11:52:48 20 Dec 07 HG

Hg 2.00 ppb 6127
Bkgd 1 10095456

*** Standard: 5 Rep: 1 Seq: 8 11:55:03 20 Dec 07 HG

Hg 5.00 ppb 13792
Bkgd 1 10073922

*** Standard: 6 Rep: 1 Seq: 9 11:57:19 20 Dec 07 HG

Hg 10.0 ppb 26636
Bkgd 1 10066939

*** Standard: 1 Rep: 1 Seq: 10 12:00:18 20 Dec 07 HG

Hg .000 ppb 354
Bkgd 1 10054428

*** Standard: 2 Rep: 1 Seq: 11 12:02:36 20 Dec 07 HG

Hg .200 ppb 801
Bkgd 1 10062350

*** Check Standard: 2 Ck2S7956 Seq: 12 12:06:36 20 Dec 07 HG
Line Flag Intensities
Hg 13919
Bkgd 1 10047589

*** Check Standard: 1 Ck1ICB Seq: 13 12:08:41 20 Dec 07 HG
Line Flag Intensities
Hg 237
Bkgd 1 10045167

*** Sample ID: qc421136 Seq: 14 12:10:43 20 Dec 07 HG
133051,1
Hg -.165 ppb 66
Bkgd 1 10040862

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

quence: 847510470 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 20-DEC-2007
alytical Method: EPA 7470A SOP Version: HG_water_rv10
alyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
133051	ICAL	STD03REP1				20-DEC-2007 11:50	1.0	1.0									
133051	ICAL	STD04REP1				20-DEC-2007 11:52	1.0	1.0									
133051	ICAL	STD05REP1				20-DEC-2007 11:55	1.0	1.0									
133051	ICAL	STD06REP1				20-DEC-2007 11:57	1.0	1.0									
133051	ICALBLK	STD01REP1				20-DEC-2007 12:00	1.0	1.0									
133051	ICAL	STD02REP1				20-DEC-2007 12:02	1.0	1.0									
133051	ICV					20-DEC-2007 12:06	1.0	1.0	2	5.000	847510470001	5.100		ug/L	102		
133051	ICB					20-DEC-2007 12:08	1.0	1.0			847510470001	ND	0.20	ug/L			
133051	BLANK	QC421136		133051	Soil	20-DEC-2007 12:10	1.0	100.0			847510470001	ND	0.020	mg/Kg			u
133051	BS	QC421137		133051	Soil	20-DEC-2007 12:12	1.0	100.0		0.5000	847510470001	0.4650	0.020	mg/Kg	93		u
133051	BSD	QC421138		133051	Soil	20-DEC-2007 12:14	1.0	100.0		0.5000	847510470001	0.5120	0.020	mg/Kg	102	10	u
133051	MSS	200073-001		133051	Soil	20-DEC-2007 12:16	1.0	96.15			847510470001	8.8 >LR	0.020	mg/Kg			>LR b*
133051	SER	QC421139	200073-001	133051	Soil	20-DEC-2007 12:19	5.0	96.15			847510470001	ND	0.096	mg/Kg		--	u
133051	MS	QC421140	200073-001	133051	Soil	20-DEC-2007 12:21	1.0	96.15		0.4808	847510470001	10.77 >LR	0.020	mg/Kg	402		: >LR c
133051	MSD	QC421141	200073-001	133051	Soil	20-DEC-2007 12:23	1.0	102.0		0.5102	847510470001	12.24 >LR	0.020	mg/Kg	668	--	: >LR c
133051	SAMPLE	200092-001		133051	Miscel	20-DEC-2007 12:25	1.0	92.59			847510470001	ND	0.020	mg/Kg			u
133051	SAMPLE	200112-001		133051	Soil	20-DEC-2007 12:27	1.0	90.91			847510470001	ND	0.020	mg/Kg			u
133051	CCV					20-DEC-2007 12:29	1.0	1.0	3	2.500	847510470001	2.100		ug/L	84		
133051	CCB					20-DEC-2007 12:32	1.0	1.0			847510470001	ND	0.20	ug/L			
133051	MSS	200073-001		133051	Soil	20-DEC-2007 13:23	20.0	96.15			847510470001	7.8	0.38	mg/Kg			u
133051	SER	QC421139	200073-001	133051	Soil	20-DEC-2007 13:25	100.0	96.15			847510470001	2.4	1.9	mg/Kg	69		
133051	MS	QC421140	200073-001	133051	Soil	20-DEC-2007 13:27	20.0	96.15		0.4808	847510470001	10.33	0.38	mg/Kg	528		:
133051	MSD	QC421141	200073-001	133051	Soil	20-DEC-2007 13:29	20.0	102.0		0.5102	847510470001	12.02	0.41	mg/Kg	829	15	:
133051	PDS	QC421206	200073-001	133051	Soil	20-DEC-2007 13:31	20.0	96.15	1	9.615	847510470001	7.135	0.38	mg/Kg	-7*		u
133051	CCV					20-DEC-2007 13:33	1.0	1.0	4	7.500	847510470001	7.600		ug/L	101		
133051	CCB					20-DEC-2007 13:35	1.0	1.0			847510470001	ND	0.20	ug/L			

used: 1=S7954 2=S7956 3=S7957 4=S7959
used: *=recovery not meaningful >LR=overrange b=noncompliant calc=check quantitation u=use

Anyst: _____ Date: 12/20/07

Curtis & Tompkins Laboratories **Sample Preparation Summary** **20-DEC-2007 13:20**

Batch Number : 133051
Date Extracted: 20-DEC-2007
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S7954
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
200073-001			Mactec, Inc.	Soil	.52	g	50	96.153846	1				T26/HG		MSS
200092-001			Owens Brockway	Miscell.	.54	g	50	92.592593	1				T26/HG		
200112-001			Weston Solutions	Soil	.55	g	50	90.909091	1				TAL/HG		
QC421136	BLANK			Soil	.5	g	50	100.000000	1				HG		
QC421137	BS			Soil	.5	g	50	100.000000	1	2.5			HG		
QC421138	BSD			Soil	.5	g	50	100.000000	1	2.5			HG		
QC421139	SER	of 200073-001		Soil	.52	g	50	96.153846	1				HG		
QC421140	MS	of 200073-001		Soil	.52	g	50	96.153846	1	2.5			HG		
QC421141	MSD	of 200073-001		Soil	.49	g	50	102.040816	1	2.5			HG		
QC421206	PDS	of 200073-001		Soil	.52	g	50	96.153846	1				HG		

Prep Chemist: _____ Reviewed By: _____ Date: 12/20/07

Relinquished By: _____ Received By: _____ Date: 12/20/07

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 133051

Date Digested: 12/19/07

Digested by: SXM

Digestion Method

☒ EPA 7471A

☐ _____

BK 2605

Page 50

LI

Da

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
~~[illegible]-001~~ cancelled 12/20/07		50.0	Y	
200073-001 M	0.52	50.0	Y	MSS
200092-001A	0.54			
200112-001A	0.55			
MBQC42136	0.50			
BS	37			
BSD	38			
MS	40			
MSD	41			

SXM 12/19/07

25 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	S7954	SXM 12/20/07
ICAL Source WS#	↓	
ICV / CCV WS#	S7956/57/58/59	
Digestion of Samples & Standards: Time ON / Temperature ON	10:00 / 95°C	
Time OFF/ Temperature OFF	10:30 / 95°C	
Aqua Regia Acids (HNO3+ HCl)	AR 12 2007	
5% $KMnO_4$	K 12 1207	
NaCl.hydroxylamine hydrochloride	Hy ↓	
Stannous Chloride	$SnCl_2$ 12 19 07	
☒ filtered thru' 0.45 um syringe filter	RZCN29662	

12/20/07

Prep Chemist / Date

Continued from page _____

Continued on page _____

12/20/07

Reviewed / Date

Curtis & Tompkins, Ltd.

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Field ID:	1065SD100[5.5]	Batch#:	133088
Lab ID:	200073-001	Sampled:	12/19/07
Matrix:	Soil	Received:	12/19/07
Units:	%	Analyzed:	12/20/07

Result	RL
35	1

RL= Reporting Limit

32.0

00215

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	200073	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	133088
MSS Lab ID:	199941-004	Sampled:	12/12/07
Lab ID:	QC421305	Received:	12/13/07
Matrix:	Soil	Analyzed:	12/20/07

MSS Result	Result	RL	RPD	Lim
22.92	23.96	1.000	4	15

RL= Reporting Limit
RPD= Relative Percent Difference

33.0

Percent Moisture Summary Report

Batch: 133088
Date: 12/20/07
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
199941-001	11.3373	19.1650	17.1207	74	26
199941-002	11.0741	17.5676	16.4336	83	17
199941-003	11.3661	17.5456	16.5966	85	15
199941-004	11.2672	17.7911	16.2960	77	23
200014-001	11.4702	19.0769	18.2638	89	11
200014-002	10.8777	17.8682	17.5060	95	5
200014-003	10.9764	18.8323	18.3549	94	6
200014-004	11.3231	19.5711	19.0973	94	6
200014-005	11.3296	19.2885	18.9279	95	5
200014-006	11.0055	19.6827	19.1930	94	6
200014-007	11.2994	17.8675	17.5398	95	5
200073-001	11.3119	18.8746	16.1931	65	35
200088-001	11.1404	18.8118	17.9698	89	11
200090-001	11.1012	17.8460	16.5276	80	20
200090-002	11.3598	18.4882	16.7700	76	24
200112-001	11.1435	18.5508	16.8953	78	22
QC421305 of 199941-004	11.2162	17.5858	16.0595	76	24
			RPD:	1.4%	4.5%

00217

12.2007

BF 133088

SAMPLE	SL	DISH	DISH WT	SAMPLE WT	FINAL WT	COMMENTS
BLK	-	CT23	11.2376	Ø	11.2380	
199941 - 001	D	CT27	11.3393	19.1650	17.1207	
002	↓	JNH	11.0741	17.5676	16.4336	
003		CT24	11.3661	17.3456	16.5966	
004		CT16	11.2672	17.9911	16.7960	
SDUP ↓ 004	↓	K06	11.2162	17.5858	16.0595	
200014 - 001	A	B20	11.4702	19.0769	18.2638	
002		MAD	10.8777	17.8682	17.5060	
003		Z	10.9764	18.8323	18.3549	
004		B19	11.3231	19.5711	19.0973	
005		A08	11.3296	19.2885	18.9279	
006		B113	11.0055	19.6827	19.1930	
↓ 007	↓	CT22	11.2994	17.8715	17.5398	
200073 - 001	N	CT15	11.3119	18.8746	16.1931	
200088 - 001	A	AAA	11.1404	18.8118	17.9698	
200090 - 001	A	B121	11.1012	17.8460	16.5276	
↓ 002	↓	CT29	11.3598	18.4882	16.7700	
200112 - 001	A	B106	11.1435	18.5508	16.8953	

TIME IN : 7:30P
AT : 17:PM
AMBIENT TEMP

Continued on Page

Read and Understood By

12.2007
Signed Date

12-21-07
Signed Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 133088
Date Started: 20-DEC-2007
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
199941-001		Sullivan Internati	Soil	MOISTURE	27-DEC-2007
199941-002		Sullivan Internati	Soil	MOISTURE	27-DEC-2007
199941-003		Sullivan Internati	Soil	MOISTURE	27-DEC-2007
199941-004		Sullivan Internati	Soil	MOISTURE	27-DEC-2007
200014-001		Erler & Kalinowski	Soil	MOISTURE	31-DEC-2007
200014-002		Erler & Kalinowski	Soil	MOISTURE	31-DEC-2007
200014-003		Erler & Kalinowski	Soil	MOISTURE	31-DEC-2007
200014-004		Erler & Kalinowski	Soil	MOISTURE	31-DEC-2007
200014-005		Erler & Kalinowski	Soil	MOISTURE	31-DEC-2007
200014-006		Erler & Kalinowski	Soil	MOISTURE	31-DEC-2007
200014-007		Erler & Kalinowski	Soil	MOISTURE	31-DEC-2007
200073-001		Mactec, Inc.	Soil	MOISTURE	28-DEC-2007
200088-001		CH2M Hill Construc	Soil	MOISTURE	21-DEC-2007
200090-001		CH2M Hill Construc	Soil	MOISTURE	28-DEC-2007
200090-002		CH2M Hill Construc	Soil	MOISTURE	28-DEC-2007
200112-001		Weston Solutions	Soil	MOISTURE	28-DEC-2007
QC421305	SDUP of 199941-004		Soil	MOISTURE	

DATE	0.2000	1.0000	10.0000	50.0000	INITIALS	WEIGHT SET
11-25-07	0.2000	1.0000	10.0000	49.9999	HO	35298
11-26-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-27-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-28-07	0.2000	1.0000	10.0000	50.0000	VV	35298
11-29-07	0.2000	1.0000	10.0000	50.0002	VV	35298
12-2-07	0.2000	1.0000	10.0000	50.0001	HO	35298
12-3-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-5-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-6-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-7-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-8-07	0.2000	1.0000	10.0000	50.0000	HO	35298
12-9-07	0.2000	1.0000	10.0000	50.0001	HO	35298
12-10-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-11-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-12-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-12-07	0.2000	1.0000	10.0000	50.0000	HO	35298
12-13-07	0.2000	1.0000	10.0000	50.0000	HO	35298
12-14-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-15-07	0.2000	1.0000	10.0000	50.0000	HO	35298
12-16-07	0.2000	1.0000	10.0000	50.0000	HO	35298
12-17-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-18-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-19-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-20-07	0.2000	1.0000	10.0001	50.0000	VV	35298
12-20-07	0.2000	1.0000	10.0000	50.0000	VV	35298
12-22-07	0.2000	1.0000	10.0000	50.0000	HO	35298

Continued on Page

Read and Understood By

Signed Date Signed Date

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 7

Date	Initials	Temp (*C)
9-21-07	VV	105°C
9-22-07	W	105°C
9-23-07	HO	105°C
9-24-07	VV	105°C
9-25-07	VV	103°C
9-26-07	VV	103°C
9-27-07	VV	103°C
9-28-07	VV	103°C
9-29-07	HO	104°C
10-1-07	VV	103°C
10-2-07	VV	103°C
10-3-07	VV	103°C
10-4-07	VV	105°C
10-5-07	VV	103°C
10-6-07	HO	105°C
10-7-07	HO	105°C
10-8-07	VV	103°C
10-9-07	VV	104°C
10-10-07	VV	103°C
10-11-07	VV	104°C
10-12-07	VV	103°C
10-13-07	HO	104°C
10-14-07	HO	104°C
10-16-07	VV	103°C
10-17-07	VV	104°C
10-18-07	VV	105°C
10-19-07	VV	105°C
10-20-07	HO	105°C
10-21-07	HO	105°C
10-22-07	VV	103°C
10-23-07	VV	103°C
10-24-07	VV	103°C
10-25-07	VV	104°C
10-26-07	VV	104°C
10-27-07	HO	105°C
10-29-07	VV	103°C
10-30-07	VV	103°C
10-31-07	MDH	103°C
11-1-07	VV	103°C
11-2-07	VV	104°C
11-3-07	HO	105°C
11-4-07	HO	105°C

Date	Initials	Temp (*C)
11-5-07	VV	103°C
11-6-07	VV	104°C
11-07-07	VV	103°C
11-8-07	VV	105°C
11-9-07	VV	105°C
11-10-07	HO	105°C
11-11-07	HO	105°C
11-12-07	VV	105°C
11-13-07	W	104°C
11-14-07	VV	104°C
11-15-07	VV	104°C
11-16-07	VV	103°C
11-17-07	HO	105°C
11-18-07	HO	105°C
11-19-07	VV	103°C
11-20-07	VV	103°C
11-24-07	HO	105°C
11-25-07	HO	105°C
11-26-07	VV	103°C
11-27-07	VV	103°C
11-28-07	VV	105°C
11-29-07	VV	103°C
11-30-07	JLA	100°C
12-2-07	HO	104°C
12-3-07	VV	103°C
12-5-07	VV	103°C
12-6-07	VV	103°C
12-7-07	VV	104°C
12-8-07	HO	105°C
12-9-07	HO	105°C
12-10-07	VV	105°C
12-11-07	VV	104°C
12-12-07	VV	103°C
12-13-07	HO	105°C
12-14-07	VV	105°C
12-15-07	HO	104°C
12-16-07	HO	104°C
12-17-07	VV	105°C
12-18-07	VV	105°C
12-19-07	VV	105°C
12-20-07	VV	105°C
12-20-07	VV	105°C

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 200520
ANALYTICAL REPORT

Mactec, Inc.
5341 Old Redwood Hwy
Petaluma, CA 94954

Project : 4084075115
Location : Bldg 1065 Presidio
Level : III

Sample ID	Lab ID
1065BC402 A	200520-001
1065BC402 B	200520-002
1065BC402 C	200520-003
1065BC402 D	200520-004
1065BC402 A-D COMP	200520-005
1065BC403	200520-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 02/19/2008
Project Manager

Signature: _____ Date: 02/19/2008
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	200520
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065 Presidio
Request Date:	01/14/08
Samples Received:	01/14/08

This hardcopy data package contains sample and QC results for one four-point soil composite, requested for the above referenced project on 01/14/08. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
Toluene and m,p-xylenes were detected between the MDL and the RL in the method blank for batch 133787; these analytes were not detected in the sample at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Pesticides (EPA 8081A):
Low recovery was observed for endrin in the MS for batch 133748; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for endrin in the MS/MSD for batch 133748; this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for antimony and vanadium in the MS/MSD of 1065BC402 A-D COMP (lab # 200520-005); the BS/BSD were within limits, and the associated RPDs were within limits. High recoveries were observed for copper and vanadium in the MS of 1065BC402 A-D COMP (lab # 200520-005); the BS/BSD were within limits. High RPD was observed for copper in the MS/MSD of 1065BC402 A-D COMP (lab # 200520-005); the RPD was acceptable in the BS/BSD. High % difference was observed for chromium in the serial dilution of 1065BC402 A-D COMP (lab # 200520-005). A number of analytes were detected between the MDL and the RL in the method blank for batch 133790. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

Organophosphorous Pesticides (EPA 8141):
Cal Science in Garden Grove, CA performed the analysis. Please see the Cal Science case narrative.

Chlorophenoxy Herbicides (EPA 8151):
Cal Science in Garden Grove, CA performed the analysis. Please see the Cal Science case narrative.

30.1

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3830

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

200520

SAMPLING INFORMATION

NAME OF FACILITY: A.R. Wilson Quarry
STREET ADDRESS:
CITY / STATE: Aromas, CA ZIP:

PROJECT NAME: Bldg 1063, Presidio

JOB NO.: 408407515 02.4

SAMPLERS (SIGNATURE):

SAMPLERS INITIALS (PRINT): SRC

SAMPLING DATE: 01/11/2008

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES 8015 TPHg, TPHd, TPHo, BTEX	Title 22 Metals 6010C + 7471A mercury	Pesticides+Herbicides 8081A, 8141A, 8151A	FOR LAB USE ONLY
1100	X		SO	1065BC402	AB-Aromas	4-point composite	4	X	X	X	X		
1110	X		SO	1065BC403	Drain Rock Aromas		4	X	X	X	X	On hold	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	1/11/08 1130		1/14/08 1103			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Standard (5 day) TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

Curtis & Tompkins, Ltd

COOLER RECEIPT CHECKLIST

Login#: 200520 Date Received: 1-14-08 Number of Coolers: 1
Client: Mactec Project: Bldg 1065 Presidio

A. Preliminary Examination Phase
Date Opened: 1-14-08 By (print): Faith Nichols (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? YES (NO)
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? YES (NO)
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO N/A
4. Were custody papers dry and intact when received? (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? (YES) NO
6. Did you sign the custody papers in the appropriate place? (YES) NO
7. Was project identifiable from custody papers? (YES) NO
   If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: Ziploc bags
9. If required, was sufficient ice used? Samples should be <=6 degrees C. (YES) NO
   Type of ice: Wet Temperature: No temp blank, all cold
10. Were Encore sampling devices present in the cooler? YES (NO)
    If YES, enter time they were transferred to the freezer

B. Login Phase
Date Logged In: 1-14-08 By (print): Faith Nichols (sign) [signature]

1. Did all bottles arrive unbroken? (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? (YES) NO
3. Did bottle labels agree with custody papers? (YES) NO
4. Were appropriate containers used for the tests indicated? (YES) NO
5. Were correct preservatives added to samples? YES NO N/A
6. Was sufficient amount of sample sent for tests indicated? (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below YES NO N/A
8. Was the client contacted concerning this sample delivery? YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

TOTAL VOLATILE HYDROCARBONS

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115		
Field ID:	1065BC402 A-D COMP	Sampled:	01/11/08
Matrix:	Soil	Received:	01/14/08
Diln Fac:	1.000		

Type: SAMPLE
Lab ID: 200520-005

Basis: dry
Moisture: 3%

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	ND	1.0	0.071	mg/Kg	133732	01/14/08	EPA 8015B
Benzene	ND	5.4	0.52	ug/Kg	133787	01/16/08	EPA 8021B
Toluene	0.83 C J	5.4	0.68	ug/Kg	133787	01/16/08	EPA 8021B
Ethylbenzene	ND	5.4	0.60	ug/Kg	133787	01/16/08	EPA 8021B
m,p-Xylenes	1.1 J	5.4	0.56	ug/Kg	133787	01/16/08	EPA 8021B
o-Xylene	0.96 C J	5.4	0.66	ug/Kg	133787	01/16/08	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	106	65-135	133732	01/14/08	EPA 8015B
Bromofluorobenzene (FID)	109	65-135	133732	01/14/08	EPA 8015B
Trifluorotoluene (PID)	105	59-150	133787	01/16/08	EPA 8021B
Bromofluorobenzene (PID)	107	64-145	133787	01/16/08	EPA 8021B

Type: BLANK
Lab ID: QC423849
Units: mg/Kg
Basis: as received

Batch#: 133732
Analyzed: 01/14/08
Analysis: EPA 8015B

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	1.0	0.068

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)		114	65-135
Bromofluorobenzene (FID)		116	65-135
Trifluorotoluene (PID)	NA		
Bromofluorobenzene (PID)	NA		

C= Presence confirmed, but RPD between columns exceeds 40%
J= Estimated value
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.2

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115		
Field ID:	1065BC402 A-D COMP	Sampled:	01/11/08
Matrix:	Soil	Received:	01/14/08
Diln Fac:	1.000		

Type:	BLANK	Batch#:	133787
Lab ID:	QC424095	Analyzed:	01/16/08
Units:	ug/Kg	Analysis:	EPA 8021B
Basis:	as received		

Analyte	Result	RL	MDL
Benzene	ND	5.0	0.48
Toluene	0.65 J	5.0	0.63
Ethylbenzene	ND	5.0	0.56
m,p-Xylenes	0.83 J	5.0	0.52
o-Xylene	ND	5.0	0.62

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)	NA		
Bromofluorobenzene (FID)	NA		
Trifluorotoluene (PID)		105	59-150
Bromofluorobenzene (PID)		104	64-145

C= Presence confirmed, but RPD between columns exceeds 40%
J= Estimated value
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.2

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC423850	Diln Fac:	1.000
Matrix:	Soil	Batch#:	133732
Units:	mg/Kg	Analyzed:	01/14/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.682	94	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	129	65-135
Bromofluorobenzene (FID)	121	65-135

3.0

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8021B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	133787
Basis:	as received	Analyzed:	01/16/08

Type: BS Lab ID: QC424096

Analyte	Spiked	Result	%REC	Limits
Benzene	50.00	48.77	98	80-120
Toluene	50.00	50.35	101	80-120
Ethylbenzene	50.00	46.58	93	80-120
m,p-Xylenes	50.00	48.91	98	80-122
o-Xylene	50.00	51.96	104	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	98	59-150
Bromofluorobenzene (PID)	106	64-145

Type: BSD Lab ID: QC424186

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	50.00	48.31	97	80-120	1	20
Toluene	50.00	52.31	105	80-120	4	20
Ethylbenzene	50.00	46.12	92	80-120	1	20
m,p-Xylenes	50.00	48.22	96	80-122	1	20
o-Xylene	50.00	50.73	101	80-120	2	20

Surrogate	%REC	Limits
Trifluorotoluene (PID)	98	59-150
Bromofluorobenzene (PID)	104	64-145

RPD= Relative Percent Difference

15.0

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065BC402 A-D COMP	Diln Fac:	1.000
MSS Lab ID:	200520-005	Batch#:	133732
Matrix:	Soil	Sampled:	01/11/08
Units:	mg/Kg	Received:	01/14/08
Basis:	dry	Analyzed:	01/14/08

Type: MS
Lab ID: QC423852
Moisture: 3%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.07129	10.11	8.889	88	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	116	65-135

Type: MSD
Lab ID: QC423853
Moisture: 3%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.52	8.897	85	75-125	4	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	65-135
Bromofluorobenzene (FID)	112	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 GCVOA Soil: EPA 8015B

Inst : GC07
Calnum : 327425380001
Units : ng

Name : GC07 GAS 295
Date : 22-OCT-2007 19:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	295_012	327425380012	TVH 1	22-OCT-2007 19:49	S7476 (1000X), S7273 (5000X)
L2	295_013	327425380013	TVH 2	22-OCT-2007 20:24	S6986 (1000X), S7273 (5000X)
L3	295_014	327425380014	TVH 3	22-OCT-2007 21:00	S6985 (1000X), S7273 (5000X)
L4	295_015	327425380015	TVH 4	22-OCT-2007 21:36	S6984 (2000X), S7273 (5000X)
L5	295_016	327425380016	TVH 5	22-OCT-2007 22:11	S6984 (1000X), S7273 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2255.1	1655.9	1581.2	1486.8	1471.4	AVRG		5.92E-4		1690.1	19	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	33	2500	-2	10000	-6	25000	-12	50000	-13

Analyst: MJM Date: 10/23/07 Reviewer: LH Date: 10/24/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200520 GCVOA Soil
EPA 8015B

Inst : GC07
Calnum : 327425380001

Name : GC07 GAS 295
Cal Date : 22-OCT-2007

ICV 327425380018 (295_018 22-OCT-2007) stds: S7423 (1000X), S7273 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1690.1	1688.0	10000	9988	ng	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 328006913001
Units : ng

Name : GC07 MTBE/SURR 004a
Date : 04-JAN-2008 20:25
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	004_003	328006913003	BTXE_1	04-JAN-2008 20:25	S7770 (1000X), S7874 (5000X)
L2	004_004	328006913004	MBTXE_2	04-JAN-2008 21:01	S7769 (1250X), S7874 (5000X)
L3	004_005	328006913005	MBTXE_3	04-JAN-2008 21:37	S7769 (500X), S7874 (5000X)
L4	004_006	328006913006	MBTXE_4	04-JAN-2008 22:12	S7769 (125X), S7874 (5000X)
L5	004_007	328006913007	MBTXE_5	04-JAN-2008 22:48	S7768 (1000X), S7874 (5000X)
L6	004_008	328006913008	MBTXE_6	04-JAN-2008 23:24	S7768 (500X), S7874 (5000X)
L7	004_009	328006913009	MBTXE_7	05-JAN-2008 00:00	S7768 (250X), S7874 (5000X)
L8	004_010	328006913010	MTBE_7	05-JAN-2008 00:35	S7767 (500X), S7874 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2140.8	2244.5	2196.9	2335.2	2291.3	2280.5	2407.5	2227.3	AVRG		4.41E-4		2265.5	4	0.995	20	
Bromofluorobenzene (FID)	A	1756.9	1790.2	1777.8	1856.0	1808.9	1802.2	1835.4	1734.5	AVRG		5.57E-4		1795.2	2	0.995	20	
Benzene	B	10484	8747.9	7968.0	7799.1	7861.1	7459.8	7308.3		AVRG		1.21E-4		8232.6	13	0.995	20	
Toluene	B	9260.0	7999.6	7309.5	7241.9	7531.5	6992.7	6807.5		AVRG		1.32E-4		7591.8	11	0.995	20	
Ethylbenzene	B	6515.2	6482.3	5995.9	5923.5	6354.2	5666.3	5518.3		AVRG		1.65E-4		6065.1	7	0.995	20	
m,p-Xylenes	B	10474	8720.2	7901.3	7717.3	8292.6	7418.8	7223.6		AVRG		1.21E-4		8249.6	13	0.995	20	
o-Xylene	B	7772.4	7335.8	7061.5	6832.3	7121.8	6552.1	6372.0		AVRG		1.43E-4		7006.8	7	0.995	20	
Trifluorotoluene (PID)	B	2806.5	2907.3	2851.9	3069.3	3042.6	3124.8	3383.8	2967.6	AVRG		3.31E-4		3019.2	6	0.995	20	
Bromofluorobenzene (PID)	B	7491.7	7637.9	7624.2	8027.6	7791.3	7820.7	7940.1	7534.3	AVRG		1.29E-4		7733.5	2	0.995	20	
Benzene	C	3588.4	2804.1	2821.3	3133.8	3433.2	3378.4	3359.3		AVRG		3.11E-4		3216.9	10	0.995	20	
Toluene	C	2599.2	2832.5	2539.5	2875.1	3281.3	3193.1	3190.2		AVRG		3.41E-4		2930.1	10	0.995	20	
Ethylbenzene	C	3255.6	2353.0	2167.3	2492.9	2776.4	2667.5	2666.1		AVRG		3.81E-4		2625.5	13	0.995	20	
m,p-Xylenes	C	4114.4	2955.9	2763.4	3083.0	3511.3	3349.7	3341.8		AVRG		3.03E-4		3302.8	13	0.995	20	
o-Xylene	C	2391.2	2558.4	2444.1	2663.8	3141.9	2997.3	2988.9		AVRG		3.65E-4		2740.8	11	0.995	20	
Trifluorotoluene (PID)	C	1104.7	1190.5	1159.5	1255.3	1249.5	1290.0	1363.5	1125.8	AVRG		8.21E-4		1217.4	7	0.995	20	
Bromofluorobenzene (PID)	C	3161.4	3254.6	3247.3	3415.7	3446.9	3377.1	3348.3	3176.9	AVRG		3.03E-4		3303.5	3	0.995	20	

CONFIDENTIAL

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	-6	450.0	-1	450.0	-3	450.0	3	450.0	1	450.0	1	450.0	6	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-2	450.0	0	450.0	-1	450.0	3	450.0	1	450.0	0	450.0	2	450.0	-3
Benzene	B	2.500	27	10.00	6	25.00	-3	100.0	-5	500.0	-5	1000	-9	2000	-11		
Toluene	B	2.500	22	10.00	5	25.00	-4	100.0	-5	500.0	-1	1000	-8	2000	-10		
Ethylbenzene	B	2.500	7	10.00	7	25.00	-1	100.0	-2	500.0	5	1000	-7	2000	-9		
m,p-Xylenes	B	2.500	27	10.00	6	25.00	-4	100.0	-6	500.0	1	1000	-10	2000	-12		
o-Xylene	B	2.500	11	10.00	5	25.00	1	100.0	-2	500.0	2	1000	-6	2000	-9		
Trifluorotoluene (PID)	B	450.0	-7	450.0	-4	450.0	-6	450.0	2	450.0	1	450.0	3	450.0	12	450.0	-2
Bromofluorobenzene (PID)	B	450.0	-3	450.0	-1	450.0	-1	450.0	4	450.0	1	450.0	1	450.0	3	450.0	-3
Benzene	C	2.500	12	10.00	-13	25.00	-12	100.0	-3	500.0	7	1000	5	2000	4		
Toluene	C	2.500	-11	10.00	-3	25.00	-13	100.0	-2	500.0	12	1000	9	2000	9		
Ethylbenzene	C	2.500	24	10.00	-10	25.00	-17	100.0	-5	500.0	6	1000	2	2000	2		
m,p-Xylenes	C	2.500	25	10.00	-11	25.00	-16	100.0	-7	500.0	6	1000	1	2000	1		
o-Xylene	C	2.500	-13	10.00	-7	25.00	-11	100.0	-3	500.0	15	1000	9	2000	9		
Trifluorotoluene (PID)	C	450.0	-9	450.0	-2	450.0	-5	450.0	3	450.0	3	450.0	6	450.0	12	450.0	-8
Bromofluorobenzene (PID)	C	450.0	-4	450.0	-1	450.0	-2	450.0	3	450.0	4	450.0	2	450.0	1	450.0	-4

Analyst: PDM Date: 01/05/08 Reviewer: LH Date: 01/07/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

328006913001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200520 GCVOA Soil
EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 328006913001

Name : GC07 MTBE/SURR 004a
Cal Date : 04-JAN-2008

ICV 328006913012 (004_012 05-JAN-2008) stds: S7868 (1000X), S7874 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	8232.6	8656.7	100.0	105.2	ng	5	15	
Toluene	B	7591.8	8737.1	100.0	115.1	ng	15	15	
Ethylbenzene	B	6065.1	6555.8	100.0	108.1	ng	8	15	
m,p-Xylenes	B	8249.6	8699.8	200.0	210.9	ng	5	15	
o-Xylene	B	7006.8	7752.7	100.0	110.6	ng	11	15	
Benzene	C	3216.9	3412.8	100.0	106.1	ng	6	15	
Toluene	C	2930.1	3232.1	100.0	110.3	ng	10	15	
Ethylbenzene	C	2625.5	2737.7	100.0	104.3	ng	4	15	
m,p-Xylenes	C	3302.8	3572.6	200.0	216.3	ng	8	15	
o-Xylene	C	2740.8	3083.4	100.0	112.5	ng	12	15	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 200520 GCVOA Soil
EPA 8015B / EPA 8021B

Inst : GC07 Run Name : QC423850 IDF : 1.0
Seqnum : 328020942005.3 File : 014_005 Time : 14-JAN-2008 13:02
Standards: S8109 (2000X), S7874 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1582.6	5000	4682	ng	-6	15	u
Trifluorotoluene (FID)	A	328006913001	04-JAN-2008	2265.5	2918.6	450.0	579.7	ng	**29**	15	c+ u
Bromofluorobenzene (FID)	A	328006913001	04-JAN-2008	1795.2	2165.0	450.0	542.7	ng	**21**	15	c+ u
Trifluorotoluene (PID)	C	328006913001	04-JAN-2008	1217.4	1736.6	450.0	641.9	ng	**43**	15	c+
Trifluorotoluene (PID)	B	328006913001	04-JAN-2008	3019.2	3777.0	450.0	562.9	ng	**25**	15	c+
Bromofluorobenzene (PID)	C	328006913001	04-JAN-2008	3303.5	4197.7	450.0	571.8	ng	**27**	15	c+
Bromofluorobenzene (PID)	B	328006913001	04-JAN-2008	7733.5	9346.0	450.0	543.8	ng	**21**	15	c+

MRC 01/15/08 [Trifluorotoluene (FID) A]: Passes control limits. [general version]

MRC 01/15/08 [Bromofluorobenzene (FID) A]: Passes control limits. [general version]

PDM 01/17/08 : PID surrogates are not applicable.

Analyst: MRC Date: 01/15/08 Reviewer: LH Date: 01/18/08

+=high bias c=CCV u=use

328020942005.3

CURTIS & TOMPKINS SPIKE USER REPORT FOR 200520 GCVOA Soil
EPA 8015B / EPA 8021B

Inst : GC07 Run Name : QC423851 IDF : 1.0
Seqnum : 328020942006.3 File : 014_006 Time : 14-JAN-2008 15:48
Cal : 328006913001 Caldate : 04-JAN-2008
Standards: S7787 (2000X), S7874 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	C	3216.9	4040.1	50.00	62.79	ng	**26**	15	c+ u ***
Benzene	B	8232.6	9614.3	50.00	58.39	ng	**17**	15	c+ ***
Toluene	C	2930.1	3670.1	50.00	62.63	ng	**25**	15	c+ u ***
Toluene	B	7591.8	9404.9	50.00	61.94	ng	**24**	15	c+ ***
Ethylbenzene	C	2625.5	2922.1	50.00	55.65	ng	11	15	u
Ethylbenzene	B	6065.1	6945.3	50.00	57.26	ng	15	15	
m,p-Xylenes	C	3302.8	3944.0	50.00	59.71	ng	**19**	15	c+ u ***
m,p-Xylenes	B	8249.6	9979.8	50.00	60.49	ng	**21**	15	c+ ***
o-Xylene	C	2740.8	3286.0	50.00	59.95	ng	**20**	15	c+ u ***
o-Xylene	B	7006.8	8083.1	50.00	57.68	ng	15	15	
Trifluorotoluene (FID)	A	2265.5	2471.6	450.0	490.9	ng	9	15	
Bromofluorobenzene (FID)	A	1795.2	2137.2	450.0	535.7	ng	**19**	15	c+
Trifluorotoluene (PID)	C	1217.4	1530.8	450.0	565.9	ng	**26**	15	c+ u
Trifluorotoluene (PID)	B	3019.2	3463.0	450.0	516.1	ng	15	15	
Bromofluorobenzene (PID)	C	3303.5	4303.5	450.0	586.2	ng	**30**	15	c+ u
Bromofluorobenzene (PID)	B	7733.5	9459.2	450.0	550.4	ng	**22**	15	c+

MRC 01/15/08 : High Benzene and Toluene recovery in this LCS is ok as the samples in the batch are all ND. [general version]

PDM 01/17/08 : BTXE analytes are not reported in this batch

5% spike rule

Analyst: MRC Date: 01/15/08 Reviewer: LH Date: 01/18/08

+=high bias c=CCV u=use

328020942006.3

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCVOA Soil
EPA 8015B / EPA 8021B

Inst : GC07 Run Name : MBTXE IDF : 1.0
Seqnum : 328020942015 File : 014_015 Time : 14-JAN-2008 22:23
Cal : 328006913001 Caldate : 04-JAN-2008
Standards: S7787 (1000X), S7874 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	2265.5	2392.3	450.0	475.2	ng	6	15	
Bromofluorobenzene (FID)	A	1795.2	1964.8	450.0	492.5	ng	9	15	
Benzene	B	8232.6	8371.1	100.0	101.7	ng	2	15	
Toluene	B	7591.8	8045.3	100.0	106.0	ng	6	15	
Ethylbenzene	B	6065.1	6279.4	100.0	103.5	ng	4	15	
m,p-Xylenes	B	8249.6	8173.2	100.0	99.07	ng	-1	15	
o-Xylene	B	7006.8	7045.2	100.0	100.5	ng	1	15	
Trifluorotoluene (PID)	B	3019.2	3165.6	450.0	471.8	ng	5	15	
Bromofluorobenzene (PID)	B	7733.5	8433.6	450.0	490.7	ng	9	15	
Benzene	C	3216.9	3459.1	100.0	107.5	ng	8	15	
Toluene	C	2930.1	3211.6	100.0	109.6	ng	10	15	
Ethylbenzene	C	2625.5	2608.9	100.0	99.37	ng	-1	15	
m,p-Xylenes	C	3302.8	3385.1	100.0	102.5	ng	2	15	
o-Xylene	C	2740.8	2937.0	100.0	107.2	ng	7	15	
Trifluorotoluene (PID)	C	1217.4	1362.3	450.0	503.6	ng	12	15	
Bromofluorobenzene (PID)	C	3303.5	3734.8	450.0	508.7	ng	13	15	

Analyst: MRC Date: 01/15/08 Reviewer: EAH Date: 01/15/08

328020942015

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCVOA Soil
EPA 8015B / EPA 8021B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 328020942016 File : 014_016 Time : 14-JAN-2008 22:59
Standards: S8109 (1000X), S7874 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	327425380001	22-OCT-2007	1690.1	1440.4	10000	8522	ng	-15	15	
Trifluorotoluene (FID)	A	328006913001	04-JAN-2008	2265.5	2817.3	450.0	559.6	ng	**24**	15	c+
Bromofluorobenzene (FID)	A	328006913001	04-JAN-2008	1795.2	1978.8	450.0	496.0	ng	10	15	
Trifluorotoluene (PID)	B	328006913001	04-JAN-2008	3019.2	3525.6	450.0	525.5	ng	**17**	15	c+
Bromofluorobenzene (PID)	B	328006913001	04-JAN-2008	7733.5	8444.2	450.0	491.4	ng	9	15	
Trifluorotoluene (PID)	C	328006913001	04-JAN-2008	1217.4	1610.6	450.0	595.4	ng	**32**	15	c+
Bromofluorobenzene (PID)	C	328006913001	04-JAN-2008	3303.5	3717.2	450.0	506.3	ng	13	15	

MRC 01/15/08 [Trifluorotoluene (FID) A]: Passes control limits.

Analyst: MRC Date: 01/15/08 Reviewer: EAH Date: 01/15/08

+=high bias c=CCV

328020942016

CURTIS & TOMPKINS SPIKE USER REPORT FOR 200520 GCVOA Soil
EPA 8015B / EPA 8021B

Inst : GC07
Seqnum : 328023754002.1
Cal : 328006913001
Run Name : QC424096
File : 016_002
Caldate : 04-JAN-2008
IDF : 1.0
Time : 16-JAN-2008 12:30
Standards: S7787 (2000X), S7874 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	C	3216.9	3138.0	50.00	48.77	ng	-2	15	u
Benzene	B	8232.6	8300.7	50.00	50.41	ng	1	15	
Toluene	C	2930.1	2950.5	50.00	50.35	ng	1	15	u
Toluene	B	7591.8	7640.8	50.00	50.32	ng	1	15	
Ethylbenzene	C	2625.5	2446.0	50.00	46.58	ng	-7	15	u
Ethylbenzene	B	6065.1	6143.4	50.00	50.65	ng	1	15	
m,p-Xylenes	C	3302.8	3231.0	50.00	48.91	ng	-2	15	u
m,p-Xylenes	B	8249.6	8280.6	50.00	50.19	ng	0	15	
o-Xylene	C	2740.8	2848.5	50.00	51.96	ng	4	15	u
o-Xylene	B	7006.8	7035.8	50.00	50.21	ng	0	15	
Trifluorotoluene (FID)	A	2265.5	2238.8	450.0	444.7	ng	-1	15	
Bromofluorobenzene (FID)	A	1795.2	1924.0	450.0	482.3	ng	7	15	
Trifluorotoluene (PID)	C	1217.4	1197.8	450.0	442.8	ng	-2	15	u
Trifluorotoluene (PID)	B	3019.2	2888.0	450.0	430.4	ng	-4	15	
Bromofluorobenzene (PID)	C	3303.5	3503.6	450.0	477.3	ng	6	15	u
Bromofluorobenzene (PID)	B	7733.5	8103.5	450.0	471.5	ng	5	15	

Analyst: PDM Date: 01/17/08 Reviewer: LH Date: 01/18/08

u=use

328023754002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCVOA Soil
EPA 8015B / EPA 8021B

Inst : GC07
Seqnum : 328023754008
Cal : 328006913001
Standards: S7787 (1000X), S7874 (5000X)

Run Name : BTXE
File : 016_008
Caldate : 04-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 17:57

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	2265.5	2157.7	450.0	428.6	ng	-5	15	
Bromofluorobenzene (FID)	A	1795.2	1825.2	450.0	457.5	ng	2	15	
Benzene	B	8232.6	8096.3	100.0	98.34	ng	-2	15	
Toluene	B	7591.8	7509.2	100.0	98.91	ng	-1	15	
Ethylbenzene	B	6065.1	6120.0	100.0	100.9	ng	1	15	
m,p-Xylenes	B	8249.6	8311.4	100.0	100.7	ng	1	15	
o-Xylene	B	7006.8	7020.2	100.0	100.2	ng	0	15	
Trifluorotoluene (PID)	B	3019.2	2766.0	450.0	412.3	ng	-8	15	
Bromofluorobenzene (PID)	B	7733.5	7726.7	450.0	449.6	ng	0	15	
Benzene	C	3216.9	3345.7	100.0	104.0	ng	4	15	
Toluene	C	2930.1	3114.6	100.0	106.3	ng	6	15	
Ethylbenzene	C	2625.5	2596.3	100.0	98.89	ng	-1	15	
m,p-Xylenes	C	3302.8	3354.9	100.0	101.6	ng	2	15	
o-Xylene	C	2740.8	2883.7	100.0	105.2	ng	5	15	
Trifluorotoluene (PID)	C	1217.4	1167.3	450.0	431.5	ng	-4	15	
Bromofluorobenzene (PID)	C	3303.5	3339.0	450.0	454.8	ng	1	15	

PDM 01/17/08 : MTBE N/A for batch

Analyst: PDM Date: 01/17/08 Reviewer: LH Date: 01/18/08

328023754008

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 327425380

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 10/22/07 09:40
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	295_001	X	IB			10/22/07 09:40	1.0	1
002	295_002	X	IB			10/22/07 10:15	1.0	1
003	295_003	X	ICAL			10/22/07 10:50	1.0	2 1
004	295_004	X	ICAL			10/22/07 12:00	1.0	3 1
005	295_005	X	ICAL			10/22/07 12:35	1.0	4 1
006	295_006	X	ICAL			10/22/07 13:45	1.0	5 1
007	295_007	X	ICAL			10/22/07 15:09	1.0	5 1
008	295_008	X	IB			10/22/07 16:45	1.0	1
009	295_009	X	ICAL			10/22/07 17:21	1.0	6 1
010	295_010	X	IB			10/22/07 18:37	1.0	1
011	295_011	IB	CALIB			10/22/07 19:13	1.0	1
012	295_012	ICAL	TVH 1			10/22/07 19:49	1.0	2 1
013	295_013	ICAL	TVH 2			10/22/07 20:24	1.0	3 1
014	295_014	ICAL	TVH 3			10/22/07 21:00	1.0	4 1
015	295_015	ICAL	TVH 4			10/22/07 21:36	1.0	5 1
016	295_016	ICAL	TVH 5			10/22/07 22:11	1.0	5 1
017	295_017	X	IB			10/22/07 22:47	1.0	1
018	295_018	ICV	TVH			10/22/07 23:23	1.0	6 1
019	295_019	X	ICV			10/22/07 23:59	1.0	6 1
020	295_020	X	IB			10/23/07 00:35	1.0	1
021	295_021	CMARKER				10/23/07 01:10	1.0	7 1

Analyst: MJM Date: 10/24/07 Reviewer: LH Date: 10/24/07

Standards used: 1=S7273 2=S7476 3=S6986 4=S6985 5=S6984 6=S7423 7=S6725

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328006913

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 01/04/08 19:13
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	004_001	X	IB			01/04/08 19:13	1.0	1
002	004_002	X	IB			01/04/08 19:49	1.0	1
003	004_003	ICAL	BTXE_1			01/04/08 20:25	1.0	2 1
004	004_004	ICAL	MBTXE_2			01/04/08 21:01	1.0	3 1
005	004_005	ICAL	MBTXE_3			01/04/08 21:37	1.0	3 1
006	004_006	ICAL	MBTXE_4			01/04/08 22:12	1.0	3 1
007	004_007	ICAL	MBTXE_5			01/04/08 22:48	1.0	4 1
008	004_008	ICAL	MBTXE_6			01/04/08 23:24	1.0	4 1
009	004_009	ICAL	MBTXE_7			01/05/08 00:00	1.0	4 1
010	004_010	ICAL	MTBE_7			01/05/08 00:35	1.0	5 1
011	004_011	X	IB			01/05/08 01:11	1.0	1
012	004_012	ICV	MBTXE			01/05/08 01:47	1.0	6 1
013	004_013	X	MBTXE			01/05/08 02:23	1.0	6 1

Analyst: PDM Date: 01/05/08 Reviewer: LH Date: 01/07/08

Standards used: 1=S7874 2=S7770 3=S7769 4=S7768 5=S7767 6=S7868

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328020942

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 01/14/08 13:02
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
005	014_005	CCV/LCS	QC423850	Soil	133732	01/14/08 13:02	1.0	1 2
006	014_006	CCV/LCS	QC423851	Soil	133732	01/14/08 15:48	1.0	3 2
007	014_007	X	IB			01/14/08 16:24	1.0	2
008	014_008	BLANK	QC423849	Soil	133732	01/14/08 17:00	1.0	2
009	014_009	SAMPLE	200493-018	Soil	133732	01/14/08 18:48	1.0	2
010	014_010	SAMPLE	200511-005	Soil	133732	01/14/08 19:24	1.0	2
011	014_011	MSS	200520-005	Soil	133732	01/14/08 20:00	1.0	2
012	014_012	MS	QC423852	Soil	133732	01/14/08 20:36	1.0	1 2
013	014_013	MSD	QC423853	Soil	133732	01/14/08 21:11	1.0	1 2
014	014_014	X	CMARK			01/14/08 21:47	1.0	4 2
015	014_015	CCV	MBTXE			01/14/08 22:23	1.0	3 2
016	014_016	CCV	TVH			01/14/08 22:59	1.0	1 2

Analyst: MRC Date: 01/15/08 Reviewer: _____ Date: _____

Standards used: 1=S8109 2=S7874 3=S7787 4=S7569

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328023754

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 01/16/08 11:54
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	016_001	X	CMARK			01/16/08 11:54	1.0	1 2
002	016_002	CCV/BS	QC424096	Soil	133787	01/16/08 12:30	1.0	3 2
003	016_003	BSD	QC424186	Soil	133787	01/16/08 13:06	1.0	3 2
004	016_004	X	TVH			01/16/08 13:42	1.0	4 2
005	016_005	X	IB			01/16/08 14:38	1.0	2
006	016_006	BLANK	QC424095	Soil	133787	01/16/08 16:11	1.0	2
007	016_007	SAMPLE	200520-005	Soil	133787	01/16/08 17:22	1.0	2
008	016_008	CCV	BTXE			01/16/08 17:57	1.0	3 2
009	016_009	X	CCV			01/16/08 18:33	1.0	3 2
010	016_010	X	CMARK			01/16/08 19:09	1.0	1 2

Analyst: PDM Date: 01/17/08 Reviewer: _____ Date: _____

Standards used: 1=S7569 2=S7874 3=S7787 4=S8109

SAMPLE ID/CORE ID/JAR	WEIGHT (g)	NaHSO4 (2)	COMP (2)	COMMENTS
200294-001 A	0.99	NO	NO	MSM 1/3/08
-002	1.01			
200306 -003	1.03			
200306 -002 B	5.45			
-005	5.39			
-009	5.30			
-012	5.45			
-015	5.50			
200335 -001 C	5.93			
200306 -002 A	0.98	NO	NO	MSM 1/7/08
-005	1.02			
-009	1.01			
-012	1.03			
-015	1.02			
-002 MS A	1.00			
MSD	1.02			
200373-001 A MS	1.03	No	No	Rec 1-9-08
200373-002 A MSS	1.02			
-002 MS A	1.00			
-002 MSD A	0.96			
200373-001 A	1.00	NO	NO	MSM 1/9/08
-002	1.00			
200461-001 C	5.89	NO	NO	MSM 1/10/08
200493-009 A	0.96	NO	NO	MSM 1/11/08
MS:	0.99			
MSD:	1.00			
-018	0.96			
200505-001 A	1.01	NO	NO	MSM 1/14/08
-002	0.97			
-003	1.05			
200520 MSS -005 Comp	0.99 g	No	Yes	Rec 1-14-08 comp of 001-4 a 0.5g
MS:	1.02			
MSD	0.98 g			
200493-018 A	1.00 g	No	No	Rec 1-14-08
200511-005 Comp	0.99 g	No	Yes	Rec 1-14-08 comp of

Continued on Page

PdM — Signed
1/4/08 — Date
Read and Understood By
Signed
Date

SAMPLE ID/CORE ID/JAR	WEIGHT(G)	NaHSO4(2)	COMP(3)	COMMENTS
200294-001 A	0.99	NO	NO	MSM 1/3/08
-002	1.01			
ITM 200306 -003	1.03			
200306 -002 B	5.45			
-005	5.29			
-009	5.30			
-012	5.45			
-015	5.50			
200335-001 C	5.93			
200306-002 A	0.98	NO	NO	MSM 1/7/08
-005	1.02			
-009	1.01			
-012	1.03			
-015	1.02			
-002 MS A	1.00			
MSD	1.02			
200373-001 A MSS	1.03	No	No	MKC 1-9-08
200378-002 A MSS	1.02			
-002 MS A	1.00			
-002 MSD A	0.96			
200373-001 A	1.00	NO	NO	MSM 1/9/08
-002	1.00			
200461-001 C	5.89	NO	NO	MSM 1/10/08
200493-009 A	0.96	NO	NO	MSM 1/11/08
MS:	0.99			
MSD:	1.00			
-018	0.96			
200505-001 A	1.01	NO	NO	MSM 1/16/08
-002	0.97			
-003	1.05			
200520 MSS -005 Comp	0.99 g	No	Yes	MKC 1-14-08 Comp of 001-4 a @ 5g
MS:	1.02			
MSD	0.98 g			
200493-018 A	1.00 g	No	No	MKC 1-14-08
200511-005 Comp	0.99 g	No	Yes	MKC 1-14-08 Comp of 1-4 AC @ 5g

Continued on Page

PdH — Signed — 1/4/08 — Date

Read and Understood By

MDG — Signed — 1/15/08 — Date

Project TVH/BTXE Soil Weight Logbook BK2583

Continued from Page —

Sample/Core ID/Jar	Weight (g)	NaHSO4?	Comp?	Comments
200527-001 A (MSS)	1.06	No	No	MRC 1-15-08
MS 200527-1 A	0.97	↓	↓	
MSD 200527-1 A	0.94			
200510-32 comp	0.95		Yes	comp of 1,2,3,4 @ 20g each
200510-33	1.09			5,6,7,8
200510-34	1.07			9,10,11,12
35	1.02			13,14,15,16
36	0.93			17,18,19
37	0.98			20,21,22,23
38	0.94			24,25,26,27
39	1.00			28,29,30,31
MS 200520-005 comp	1.01	NO	YES	MRC 1/16/08
MSD: ↓ ↓	0.98	↓	↓	
200546-20-comp-mss	1.00	No	Yes	MRC 1-16-08 comp 1-7 6g JXM
MS: 200546-20 comp	0.98			
MSD: 200546-20 comp	1.00			
200546-21-comp	1.03	↓	↓	comp of 9-17 6g JXM
200560-001 A	1.06	NO	NO	MRC 1/16/08
002	1.05			
003	0.98			
004	1.02			
200546-008 comp	1.04	No	Yes	MRC 1-16-08 Prior comp: 1-3, 4-7
009 comp	1.06	↓	↓	
200573-001 A MSS	0.95	No	No	MRC 1-16-08
002 A	0.97			
003 A	1.09			
MS: 200573-001 A	1.08			
MSD: 200573-001 A	1.00			
200520-005 Comp	0.96	No	yes	MRC 1-16-08 prior comp

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065BC402 A-D COMP	Sampled:	01/11/08
Matrix:	Soil	Received:	01/14/08
Units:	mg/Kg	Prepared:	01/14/08
Diln Fac:	1.000	Analyzed:	01/15/08
Batch#:	133738		

Type:	SAMPLE	Moisture:	3%
Lab ID:	200520-005	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	1.1 Y	1.0	0.17
Fuel Oil C24-C36	4.6 J	5.1	1.1

Surrogate	%REC	Limits
Hexacosane	99	65-135

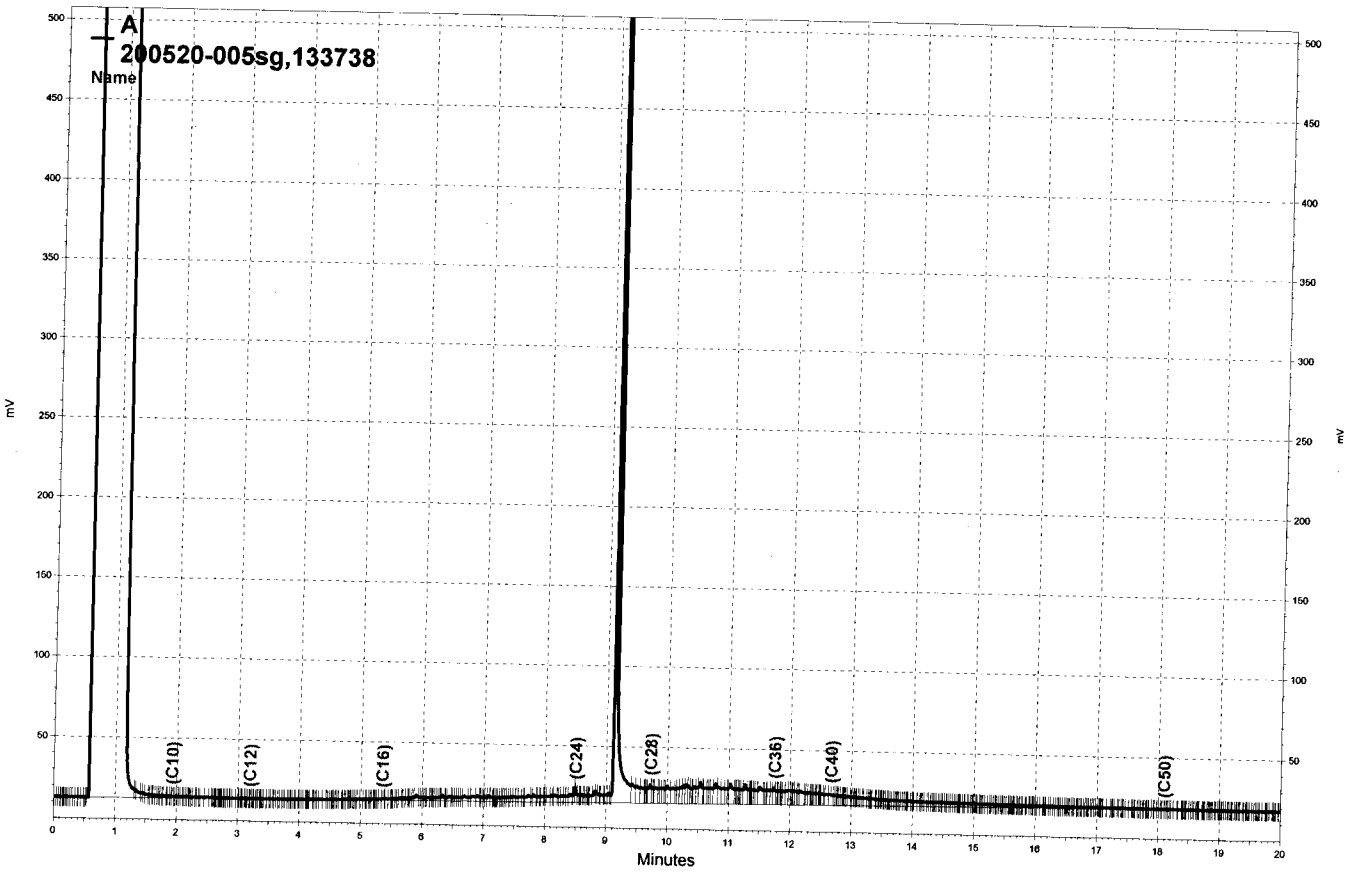
Type:	BLANK	Basis:	as received
Lab ID:	QC423879	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	0.99	0.20
Fuel Oil C24-C36	ND	5.0	1.2

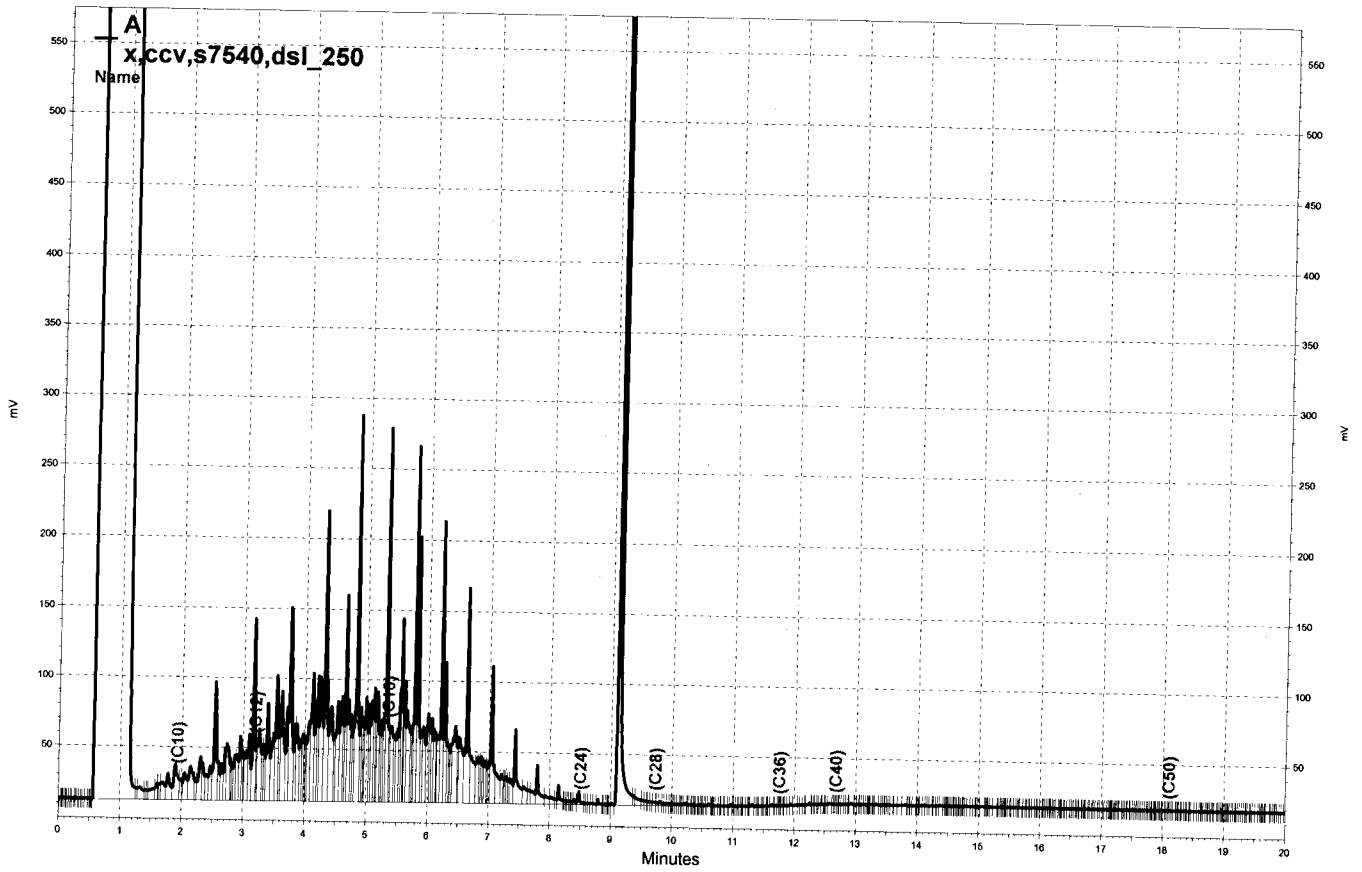
Surrogate	%REC	Limits
Hexacosane	79	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

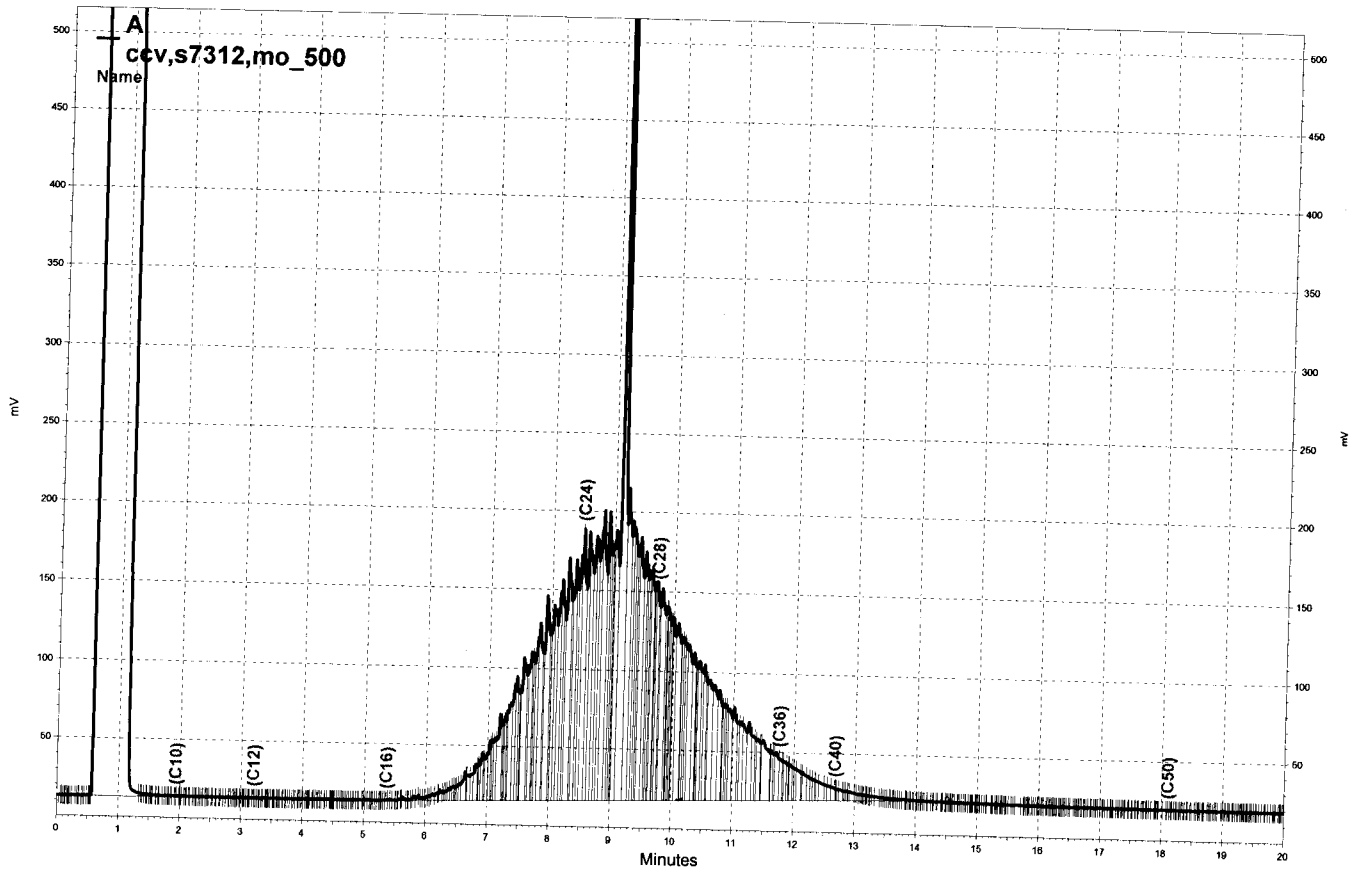
16.1



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\015a006, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\015a004, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\015a005, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC423880	Batch#:	133738
Matrix:	Soil	Prepared:	01/14/08
Units:	mg/Kg	Analyzed:	01/15/08
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.94	48.61	97	65-135

Surrogate	%REC	Limits
Hexacosane	93	65-135

17.0

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065BC402 A-D COMP	Batch#:	133738
MSS Lab ID:	200520-005	Sampled:	01/11/08
Matrix:	Soil	Received:	01/14/08
Units:	mg/Kg	Prepared:	01/14/08
Basis:	dry	Analyzed:	01/15/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC423881

Moisture: 3%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	1.109	51.34	55.01	105	65-135

Surrogate	%REC	Limits
Hexacosane	109	65-135

Type: MSD
Lab ID: QC423882

Moisture: 3%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	51.53	51.07	97	65-135	8	35

Surrogate	%REC	Limits
Hexacosane	102	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227491521001
Units : mg/L

Name : DSL
Date : 07-DEC-2007 21:55
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	341_010	227491521010	DSL_10	07-DEC-2007 21:55	S6612
L2	341_011	227491521011	DSL_100	07-DEC-2007 22:23	S6613
L3	341_012	227491521012	DSL_500	07-DEC-2007 22:51	S6614
L4	341_013	227491521013	DSL_5000	07-DEC-2007 23:18	S6611
L5	341_014	227491521014	DSL_7500	07-DEC-2007 23:46	S6616

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	44290	63574	65285	58274	67114	AVRG		1.67E-5		59707	15	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C12-C24	B	10.00	-26	100.0	6	500.0	9	5000	-2	7500	12

0093T

Analyst: ATL Date: 12/10/07 Reviewer: LH Date: 12/10/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

227491521001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200520 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 227491521001

Name : DSL
Cal Date : 07-DEC-2007

ICV 227491521016 (341_016 08-DEC-2007) stds: S6617 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	59707	60867	500.0	509.7	mg/L	2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227497284001
Units : mg/L

Name : Motor Oil
Date : 11-DEC-2007 17:50
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_012	227497284012	MO_50	11-DEC-2007 17:50	S6848
L2	345_013	227497284013	MO_250	11-DEC-2007 18:18	S6849
L3	345_014	227497284014	MO_500	11-DEC-2007 18:46	S6850
L4	345_015	227497284015	MO_1000	11-DEC-2007 19:14	S6851
L5	345_016	227497284016	MO_5000	11-DEC-2007 19:42	S6846
L6	345_017	227497284017	MO_7500	11-DEC-2007 20:10	S6847

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	41267	49498	44755	43975	43681	43827	AVRG		2.25E-5		44500	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.00	-7	250.0	11	500.0	1	1000	-1	5000	-2	7500	-2

SDG

Analyst: ATL Date: 12/12/07 Reviewer: LH Date: 12/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

227497284001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227497284002
Units : mg/L

Name : hexacosane
Date : 11-DEC-2007 21:05
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_019	227497284019	HEX_5	11-DEC-2007 21:05	S7036
L2	345_020	227497284020	HEX_10	11-DEC-2007 21:33	S7037
L3	345_021	227497284021	HEX_25	11-DEC-2007 22:01	S7038
L4	345_022	227497284022	HEX_50	11-DEC-2007 22:29	S7039
L5	345_023	227497284023	HEX_100	11-DEC-2007 22:56	S7040
L6	345_024	227497284024	HEX_200	11-DEC-2007 23:24	S7041

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	67958	68803	68027	70299	68208	66207	AVRG		1.47E-5		68250	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	0	10.00	1	25.00	0	50.00	3	100.0	0	200.0	-3

Analyst: ATL Date: 12/12/07 Reviewer: LH Date: 12/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178004998001
Units : mg/L

Name : Diesel
Date : 03-JAN-2008 14:31
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	003a008	178004998008	DSL_10	03-JAN-2008 14:31	S7961
L2	003a009	178004998009	DSL_100	03-JAN-2008 14:59	S7962
L3	003a010	178004998010	DSL_500	03-JAN-2008 15:26	S7963
L4	003a011	178004998011	DSL_1000	03-JAN-2008 15:54	S7964
L5	003a012	178004998012	DSL_5000	03-JAN-2008 16:21	S7960
L6	003a013	178004998013	DSL_7500	03-JAN-2008 16:49	S7965

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	46449	53271	52043	52154	50346	51075	AVRG		1.97E-5		50890	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-9	100.0	5	500.0	2	1000	2	5000	-1	7500	0

Analyst: ATL Date: 01/07/08 Reviewer: LH Date: 01/07/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200520 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178004998001

Name : Diesel
Cal Date : 03-JAN-2008

ICV 178004998015 (003a015 03-JAN-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	50890	47285	500.0	464.6	mg/L	-7	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178004998002
Units : mg/L

Name : Hexacosane
Date : 03-JAN-2008 19:07
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	003a018	178004998018	HEX_5	03-JAN-2008 19:07	S7036
L2	003a019	178004998019	HEX_10	03-JAN-2008 19:34	S7037
L3	003a020	178004998020	HEX_25	03-JAN-2008 20:02	S7038
L4	003a021	178004998021	HEX_50	03-JAN-2008 20:29	S7039
L5	003a022	178004998022	HEX_100	03-JAN-2008 20:57	S7040
L6	003a023	178004998023	HEX_200	03-JAN-2008 21:25	S7041

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	58801	61085	57968	59807	58316	59435	AVRG		1.69E-5		59235	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-1	10.00	3	25.00	-2	50.00	1	100.0	-2	200.0	0

Analyst: ATL Date: 01/07/08 Reviewer: LH Date: 01/07/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178004998003
Units : mg/L

Name : Motor Oil
Date : 03-JAN-2008 22:19
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	003a025	178004998025	MO_50	03-JAN-2008 22:19	S6848
L2	003a026	178004998026	MO_250	03-JAN-2008 22:47	S6849
L3	003a027	178004998027	MO_500	03-JAN-2008 23:14	S6850
L4	003a028	178004998028	MO_1000	03-JAN-2008 23:42	S6851
L5	003a029	178004998029	MO_5000	04-JAN-2008 00:09	S6846
L6	003a030	178004998030	MO_7500	04-JAN-2008 00:37	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	31180	39673	40163	39817	36715	36618	AVRG		2.68E-5		37361	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-17	250.0	6	500.0	7	1000	7	5000	-2	7500	-2

Analyst: ATL Date: 01/07/08 Reviewer: LH Date: 01/07/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCSV Soil
EPA 8015B

Inst : GC14B
Seqnum : 228021842005
Standards: S7542

Run Name : DSL_1000
File : 015_005

IDF : 1.0
Time : 15-JAN-2008 05:54

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227491521001	07-DEC-2007	59707	65781	1000	1102	mg/L	10	15	
Hexacosane	B	227497284002	11-DEC-2007	68250	66747	50.00	48.90	mg/L	-2	15	

Analyst: ATL Date: 01/15/08 Reviewer: LH Date: 01/16/08

228021842005

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCSV Soil
EPA 8015B

Inst : GC14B
Seqnum : 228021842006
Standards: S7312

Run Name : MO_500
File : 015_006

IDF : 1.0
Time : 15-JAN-2008 06:22

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227497284001	11-DEC-2007	44500	44477	500.0	499.7	mg/L	0	15	
Hexacosane	B	227497284002	11-DEC-2007	68250	69141	50.00	50.65	mg/L	1	15	

Analyst: ATL Date: 01/15/08 Reviewer: LH Date: 01/16/08

228021842006

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCSV Soil
EPA 8015B

Inst : GC14B
Seqnum : 228021842020
Standards: S7541

Run Name : DSL_500
File : 015_020

IDF : 1.0
Time : 15-JAN-2008 13:22

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	227491521001	07-DEC-2007	59707	61609	500.0	515.9	mg/L	3	15	
Hexacosane	B	227497284002	11-DEC-2007	68250	64782	50.00	47.46	mg/L	-5	15	

Analyst: ATL Date: 01/16/08 Reviewer: LH Date: 01/16/08

228021842020

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCSV Soil
EPA 8015B

Inst : GC14B
Seqnum : 228021842021
Standards: S7312

Run Name : MO_500
File : 015_021

IDF : 1.0
Time : 15-JAN-2008 13:51

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	227497284001	11-DEC-2007	44500	40794	500.0	458.4	mg/L	-8	15	
Hexacosane	B	227497284002	11-DEC-2007	68250	62676	50.00	45.92	mg/L	-8	15	

Analyst: ATL Date: 01/16/08 Reviewer: LH Date: 01/16/08

228021842021

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178021872004
Standards: S7540

Run Name : DSL_250
File : 015a004

IDF : 1.0
Time : 15-JAN-2008 05:54

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178004998001	03-JAN-2008	50890	56019	250.0	275.2	mg/L	10	15	
Hexacosane	178004998002	03-JAN-2008	59235	62690	50.00	52.92	mg/L	6	15	

Analyst: JDG Date: 01/15/08 Reviewer: EAH Date: 01/15/08

178021872004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178021872005
Standards: S7312

Run Name : MO_500
File : 015a005

IDF : 1.0
Time : 15-JAN-2008 06:21

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178004998003	03-JAN-2008	37361	40974	500.0	548.4	mg/L	10	15	
Hexacosane	178004998002	03-JAN-2008	59235	62362	50.00	52.64	mg/L	5	15	

Analyst: KHT Date: 01/17/08 Reviewer: ATL Date: 01/17/08

178021872005

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178021872016
Standards: S7541

Run Name : DSL_500
File : 015a016

IDF : 1.0
Time : 15-JAN-2008 12:06

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178004998001	03-JAN-2008	50890	55420	500.0	544.5	mg/L	9	15	
Hexacosane	178004998002	03-JAN-2008	59235	60464	50.00	51.04	mg/L	2	15	

Analyst: JDG Date: 01/15/08 Reviewer: EAH Date: 01/15/08

178021872016

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178021872017
Standards: S7312

Run Name : MO_500
File : 015a017

IDF : 1.0
Time : 15-JAN-2008 12:33

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178004998003	03-JAN-2008	37361	37998	500.0	508.5	mg/L	2	15	
Hexacosane	178004998002	03-JAN-2008	59235	59243	50.00	50.01	mg/L	0	15	

Analyst: KHT Date: 01/17/08 Reviewer: ATL Date: 01/17/08

178021872017

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178004998

Instrument : GC17A
Method : EPA 8015B

Begun : 01/03/08 11:18
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	003a001	X	IB			01/03/08 11:18	1.0	
002	003a002	X	IB			01/03/08 11:46	1.0	
003	003a003	X	IB			01/03/08 12:14	1.0	
004	003a004	X	IB			01/03/08 12:41	1.0	
005	003a005	IB	CALIB			01/03/08 13:09	1.0	
006	003a006	CMARKER	C8-C50			01/03/08 13:36	1.0	1
007	003a007	IB	CALIB			01/03/08 14:03	1.0	
008	003a008	ICAL	DSL_10			01/03/08 14:31	1.0	2
009	003a009	ICAL	DSL_100			01/03/08 14:59	1.0	3
010	003a010	ICAL	DSL_500			01/03/08 15:26	1.0	4
011	003a011	ICAL	DSL_1000			01/03/08 15:54	1.0	5
012	003a012	ICAL	DSL_5000			01/03/08 16:21	1.0	6
013	003a013	ICAL	DSL_7500			01/03/08 16:49	1.0	7
014	003a014	IB	CALIB			01/03/08 17:17	1.0	
015	003a015	ICV	DSL_500			01/03/08 17:44	1.0	8
016	003a016	X	ICV			01/03/08 18:12	1.0	8
017	003a017	IB	CALIB			01/03/08 18:39	1.0	
018	003a018	ICAL	HEX_5			01/03/08 19:07	1.0	9
019	003a019	ICAL	HEX_10			01/03/08 19:34	1.0	10
020	003a020	ICAL	HEX_25			01/03/08 20:02	1.0	11
021	003a021	ICAL	HEX_50			01/03/08 20:29	1.0	12
022	003a022	ICAL	HEX_100			01/03/08 20:57	1.0	13
023	003a023	ICAL	HEX_200			01/03/08 21:25	1.0	14
024	003a024	IB	CALIB			01/03/08 21:52	1.0	
025	003a025	ICAL	MO_50			01/03/08 22:19	1.0	15
026	003a026	ICAL	MO_250			01/03/08 22:47	1.0	16
027	003a027	ICAL	MO_500			01/03/08 23:14	1.0	17
028	003a028	ICAL	MO_1000			01/03/08 23:42	1.0	18
029	003a029	ICAL	MO_5000			01/04/08 00:09	1.0	19
030	003a030	ICAL	MO_7500			01/04/08 00:37	1.0	20
031	003a031	IB	CALIB			01/04/08 01:04	1.0	

Analyst: ATL Date: 01/07/08 Reviewer: LH Date: 01/07/08

Standards used: 1=S4049 2=S7961 3=S7962 4=S7963 5=S7964 6=S7960 7=S7965 8=S8069 9=S7036 10=S7037 11=S7038 12=S7039 13=S7040 14=S7041 15=S6848 16=S6849 17=S6850 18=S6851 19=S6846 20=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178021872

Instrument : GC17A
Method : EPA 8015B

Begun : 01/15/08 04:32
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	015a001	X	PRIMER				01/15/08 04:32	1.0	
002	015a002	X	IB				01/15/08 04:59	1.0	
003	015a003	X	CMARKER				01/15/08 05:27	1.0	1
004	015a004	CCV	DSL_250				01/15/08 05:54	1.0	2
005	015a005	CCV	MO_500				01/15/08 06:21	1.0	3
006	015a006	MSS	200520-005	S	Soil	133738	01/15/08 07:17	1.0	
007	015a007	MS	QC423881	S	Soil	133738	01/15/08 07:45	1.0	
008	015a008	MSD	QC423882	S	Soil	133738	01/15/08 08:12	1.0	
009	015a009	SAMPLE	200510-034	S	Soil	133738	01/15/08 08:39	1.0	
010	015a010	SAMPLE	200510-037	S	Soil	133738	01/15/08 09:07	1.0	
011	015a011	SAMPLE	200510-039	S	Soil	133738	01/15/08 09:34	1.0	
012	015a012	SAMPLE	200505-001		Soil	133691	01/15/08 10:02	1.0	
013	015a013	SAMPLE	200505-002		Soil	133691	01/15/08 10:29	1.0	
014	015a014	X	IB				01/15/08 10:57	1.0	
015	015a015	X	CMARKER				01/15/08 11:39	1.0	1
016	015a016	CCV	DSL_500				01/15/08 12:06	1.0	4
017	015a017	CCV	MO_500				01/15/08 12:33	1.0	3

Standards used: 1=S8067 2=S7540 3=S7312 4=S7541

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227491521

Instrument : GC14B
Method : EPA 8015B

Begun : 12/07/07 08:01
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	341_001	X	IB			12/07/07 08:01	1.0	
002	341_002	X	CMARKER			12/07/07 08:29	1.0	1
003	341_003	CCV	DSL_500			12/07/07 08:57	1.0	2
004	341_004	CCV	MO_500			12/07/07 09:25	1.0	3
005	341_005	X	IB			12/07/07 12:28	1.0	
006	341_006	CCV	DSL_250			12/07/07 12:59	1.0	4
007	341_007	CCV	MO_500			12/07/07 13:26	1.0	3
008	341_008	IB	CALIB			12/07/07 20:59	1.0	
009	341_009	IB	CALIB			12/07/07 21:27	1.0	
010	341_010	ICAL	DSL_10			12/07/07 21:55	1.0	5
011	341_011	ICAL	DSL_100			12/07/07 22:23	1.0	6
012	341_012	ICAL	DSL_500			12/07/07 22:51	1.0	7
013	341_013	ICAL	DSL_5000			12/07/07 23:18	1.0	8
014	341_014	ICAL	DSL_7500			12/07/07 23:46	1.0	9
015	341_015	IB	CALIB			12/08/07 00:14	1.0	
016	341_016	ICV	DSL_500			12/08/07 00:42	1.0	10
017	341_017	X	ICV			12/08/07 01:10	1.0	10
018	341_018	IB	CALIB			12/08/07 01:38	1.0	

Analyst: ATL Date: 12/10/07 Reviewer: LH Date: 12/10/07

Standards used: 1=S7539 2=S7541 3=S7312 4=S7540 5=S6612 6=S6613 7=S6614 8=S6611 9=S6616 10=S6617

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227497284

Instrument : GC14B
Method : EPA 8015B

Begun : 12/11/07 08:04
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	345_001	X	PRIMER			12/11/07 08:04	1.0	
002	345_002	X	IB			12/11/07 08:31	1.0	
003	345_003	X	CCV			12/11/07 08:59	1.0	1
004	345_004	X	CMARKER			12/11/07 09:27	1.0	2
005	345_005	CCV	MO_500			12/11/07 09:55	1.0	3
006	345_006	CCV	DSL_500			12/11/07 10:23	1.0	1
007	345_007	CCV	MO_500			12/11/07 11:00	1.0	3
008	345_008	X	TANKCHECK			12/11/07 11:53	1.0	
009	345_009	X	TANKCHECK			12/11/07 12:20	1.0	
010	345_010	X	TANKCHECK			12/11/07 16:55	1.0	
011	345_011	IB	CALIB			12/11/07 17:23	1.0	
012	345_012	ICAL	MO_50			12/11/07 17:50	1.0	4
013	345_013	ICAL	MO_250			12/11/07 18:18	1.0	5
014	345_014	ICAL	MO_500			12/11/07 18:46	1.0	6
015	345_015	ICAL	MO_1000			12/11/07 19:14	1.0	7
016	345_016	ICAL	MO_5000			12/11/07 19:42	1.0	8
017	345_017	ICAL	MO_7500			12/11/07 20:10	1.0	9
018	345_018	IB	CALIB			12/11/07 20:38	1.0	
019	345_019	ICAL	HEX_5			12/11/07 21:05	1.0	10
020	345_020	ICAL	HEX_10			12/11/07 21:33	1.0	11
021	345_021	ICAL	HEX_25			12/11/07 22:01	1.0	12
022	345_022	ICAL	HEX_50			12/11/07 22:29	1.0	13
023	345_023	ICAL	HEX_100			12/11/07 22:56	1.0	14
024	345_024	ICAL	HEX_200			12/11/07 23:24	1.0	15
025	345_025	IB	CALIB			12/11/07 23:52	1.0	

Analyst: ATL Date: 12/12/07 Reviewer: LH Date: 12/12/07

Standards used: 1=S7541 2=S7539 3=S7312 4=S6848 5=S6849 6=S6850 7=S6851 8=S6846 9=S6847 10=S7036 11=S7037 12=S7038 13=S7039 14=S7040 15=S7041

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228021842

Instrument : GC14B
Method : EPA 8015B

Begun : 01/15/08 04:02
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	015_001	X	PRIMER				01/15/08 04:02	1.0		
002	015_002	X	IB				01/15/08 04:30	1.0		
003	015_003	X	IB				01/15/08 04:58	1.0		
004	015_004	X	CMARKER				01/15/08 05:26	1.0	1	
005	015_005	CCV	DSL_1000				01/15/08 05:54	1.0	2	
006	015_006	CCV	MO_500				01/15/08 06:22	1.0	3	
007	015_007	BLANK	QC423879	S	Soil	133738	01/15/08 07:16	1.0		
008	015_008	LCS	QC423880	S	Soil	133738	01/15/08 07:44	1.0		
009	015_009	SAMPLE	200501-001	S	Soil	133738	01/15/08 08:12	1.0		
010	015_010	SAMPLE	200501-005	S	Soil	133738	01/15/08 08:40	1.0		16:BUNKC:12-40=320000
011	015_011	SAMPLE	200501-004	S	Soil	133738	01/15/08 09:09	1.0		1:BUNKC:12-40=5100
012	015_012	SAMPLE	200501-006	S	Soil	133738	01/15/08 09:37	1.0		
013	015_013	X	IB				01/15/08 10:05	1.0		
014	015_014	SAMPLE	200501-002	S	Soil	133738	01/15/08 10:33	3.0		1:BUNKC:12-40=6500
015	015_015	SAMPLE	200501-007	S	Soil	133738	01/15/08 11:01	2.0		
016	015_016	SAMPLE	200501-003	S	Soil	133738	01/15/08 11:29	3.0		14:BUNKC:12-40=93000
017	015_017	X	IB				01/15/08 11:58	1.0		
018	015_018	SAMPLE	200501-020	S	Soil	133738	01/15/08 12:26	1.0		
019	015_019	X	CMARKER				01/15/08 12:54	1.0	1	
020	015_020	CCV	DSL_500				01/15/08 13:22	1.0	4	
021	015_021	CCV	MO_500				01/15/08 13:51	1.0	3	

Standards used: 1=S8067 2=S7542 3=S7312 4=S7541

SAMPLE PREPARATION SUMMARY

Batch # : 133738
Started By : MFC
Method : SHAKER TABLE
Spike #1 ID : S7914

Prep Date : 14-JAN-2008

Spike #2 ID : S8019

Analysis : TEHM
Finished By : MFC
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
200501-001		Soil	50.38	5	1	0.09925		1			3630C	TEHM	
200501-002		Soil	49.97	5	1	0.1001		1			3630C	TEHM	
200501-003		Soil	50.27	5	1	0.09946		1			3630C	TEHM	
200501-004		Soil	50.33	5	1	0.09934		1			3630C	TEHM	
200501-005		Soil	50.28	5	1	0.09944		1			3630C	TEHM	
200501-006		Soil	50.37	5	1	0.09927		1			3630C	TEHM	
200501-007		Soil	50.06	5	1	0.09988		1			3630C	TEHM	
200501-020		Soil	50.29	5	1	0.09942		1			3630C	TEHM	
200510-032		Soil	50.32	5	1	0.09936		1			3630C	TEHM	
200510-033		Soil	50.19	5	1	0.09962		1			3630C	TEHM	
200510-034		Soil	50.35	5	1	0.0993		1			3630C	TEHM	
200510-035		Soil	50.2	5	1	0.0996		1			3630C	TEHM	
200510-036		Soil	50.21	5	1	0.09958		1			3630C	TEHM	
200510-037		Soil	50.36	5	1	0.09929		1			3630C	TEHM	
200510-038		Soil	50.15	5	1	0.0997		1			3630C	TEHM	
200510-039		Soil	50.31	5	1	0.09938		1			3630C	TEHM	
200520-005		Soil	50.35	5	1	0.0993		1			3630C	TEHM	
QC423879	BLANK	Soil	50.35	5	1	0.0993		1			3630C	TEHM	mss
QC423880	LCS	Soil	50.06	5	1	0.09988		1	1		3630C	TEHM	
QC423881	MS	Soil	50.2	5	1	0.0996		1	1		3630C	TEHM	
QC423882	MSD	Soil	50.02	5	1	0.09996		1	1		3630C	TEHM	

Analyst: ATL Date: 01/16/08 Reviewer: LH Date: 01/16/08

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2628 Page 28

LIMS Batch No: 133738
LIMS Analysis TEHM
Date Extracted: 1/14/08

Extraction Method:
☑ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
200501-001	50.38	5.0	X	
002	49.97			
003	50.27			
004	50.33			
005	50.28			
006	50.37			
007	50.06 MFC 1/14/08			
020	50.29			
200510-032	50.32			
033	50.19 MFC 1/14/08			
034	50.35			
035	50.20			
036	50.21			
037	50.36			
038	50.15			
039	50.31			
200520-005	50.35			MSS
MB QC 423879	50.35			
LCS 80	50.06			
MS 81	50.20			
MSD 82	50.02			

MFC 1/14/08

Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples
Samples were dried with CH2Cl2-rinsed powdered Na2SO4
1.0 mL of Surrogate solution was added to all samples
1.0 mL of Matrix Spiking solution was added to all spikes
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all

Samples were: ☐ sonicated 3 times ☒ placed on shaker table at: 1800
taken off shaker table at: 2000
Extracts filtered through baked, rinsed powdered Na_2SO_4
Concentrated to volumes as noted above
Relinquished to TEH Department

	Mfg & Lot # / LIMS # / Time	Date/Initials
	EM47158737	MFC 1/14/08
	EM47073734	
	S7914A	
	S8019B	
CH_2Cl_2	EM47312	
Acetone	EM47142	
	1800	
	2000	MFC 1/14/08
	EM47073734	
	✓	
	✓	

1/14/08
Extraction Chemist / Date

Continued from page ____
Continued on page ____

1/14/08
Reviewed by / Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: MFC
Cleanup Date: 1/14/08

Benchbook # **BK2649**
Page 21

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
200501-001	133738	1.0	1.0	
002				
003				
004				
005				
006				
007				
020				
200510-032				
033				
034				
035				
036				
037				
038				
039				
200520-005				
MB QC423879				MSS
LCS 80				
MS 81				
MSD 82				
				MFC 1/14/08

☐ Extracts were cleaned up using C&T assembled ____ g columns
☒ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 4.0 mL CH_2Cl_2
Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
NA	MFC 1/14/08
SP9310	
EM47312	
✓	

1/14/08
Extraction Chemist / Date

Continued from page ____
Continued on page ____

1/14/08
Reviewed by / Date

Project DOIL ALIQUOT

Continued from Page

BK26

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
200501-020	30.07	8310		
MB	30.12			EM47158737
LCS	30.14			↓
MS	30.02			200501-007D
MSD	30.07			↓
			DJT 1/13/08	
200492-001A	30.26	PCB		
-002	30.38			MSS
-003	30.05			
-004	30.32			
-005	30.28			
-006	30.16			
-007	30.03			
-008	30.21			
-009	30.31			
-010	30.07			
-011	30.30			
-012	30.37			
-013	30.07			
200501-006E	30.12			
↓ -007D	30.16			
MB	30.06			
LCS	30.28			EM47158737
MS	30.13			↓
MSD	30.07			200492-002A
				↓
			SFH 1/14/08	
200493-020	15.01	8270		COMP 003A-006A @ 4.00g ea
			DJT 1/14/08	
200510-032	50.32	TEH	133738	comp 001-004 @ 2000g ea
033	50.19			005-008
034	50.35			009-012
035	50.20			013-016
036	50.21			017-019
037	50.36			020-023
038	50.15			024-027

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL ALIQUOT BK26277 51

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
		~~TE~~	133738	~~EST~~ MFC 1/14/09
200510-039	50.31	TEH		COMP 028-031 @ 20.00 gea
200520-005	50.35			MSS COMP 001A-004A @ 40.00 gea MFC 40.00 Dea
MB	50.35			EM47158737
LCS	50.06			↓
MS	50.20			200520-005
MSD	50.02			↓
				MFC 1/14/08
200501-001D	50.38	TEH		
002A	~~50~~ MFC 1/14/08 49.97			
003A	50.27			
004A	50.33			
005A	50.28			
006E	50.37			
007D	50.06			
020D	50.29			
				MFC 1/14/08

Continued on Page

Read and Understood By

Signed Date Signed Date

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8081A
Field ID:	1065BC402 A-D COMP	Batch#:	133748
Lab ID:	200520-005	Sampled:	01/11/08
Matrix:	Soil	Received:	01/14/08
Units:	ug/Kg	Prepared:	01/15/08
Basis:	dry	Analyzed:	01/15/08
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.49
beta-BHC	ND	1.7	0.58
gamma-BHC	ND	1.7	0.57
delta-BHC	ND	1.7	0.54
Heptachlor	ND	1.7	0.64
Aldrin	ND	1.7	0.62
Heptachlor epoxide	ND	1.7	0.67
Endosulfan I	ND	1.7	0.68
Dieldrin	ND	3.4	1.3
4,4'-DDE	ND	3.4	1.5
Endrin	ND	3.4	1.5
Endosulfan II	ND	3.4	0.76
Endosulfan sulfate	ND	3.4	1.2
4,4'-DDD	ND	3.4	1.2
Endrin ketone	ND	3.4	1.1
Endrin aldehyde	ND	3.4	1.2
4,4'-DDT	ND	3.4	1.5
gamma-Chlordane	ND	1.7	0.67
alpha-Chlordane	ND	1.7	0.60
Methoxychlor	ND	17	7.1
Toxaphene	ND	61	23

Surrogate	%REC	Limits
TCMX	74	65-135
Decachlorobiphenyl	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC423926	Batch#:	133748
Matrix:	Soil	Prepared:	01/15/08
Units:	ug/Kg	Analyzed:	01/15/08
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.48
beta-BHC	ND	1.7	0.56
gamma-BHC	ND	1.7	0.56
delta-BHC	ND	1.7	0.53
Heptachlor	ND	1.7	0.62
Aldrin	ND	1.7	0.60
Heptachlor epoxide	ND	1.7	0.65
Endosulfan I	ND	1.7	0.67
Dieldrin	ND	3.3	1.2
4,4'-DDE	ND	3.3	1.4
Endrin	ND	3.3	1.5
Endosulfan II	ND	3.3	0.74
Endosulfan sulfate	ND	3.3	1.2
4,4'-DDD	ND	3.3	1.2
Endrin ketone	ND	3.3	1.1
Endrin aldehyde	ND	3.3	1.2
4,4'-DDT	ND	3.3	1.4
gamma-Chlordane	ND	1.7	0.65
alpha-Chlordane	ND	1.7	0.58
Methoxychlor	ND	17	6.9
Toxaphene	ND	60	22

Surrogate	%REC	Limits
TCMX	76	65-135
Decachlorobiphenyl	80	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

24.0

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC423927	Batch#:	133748
Matrix:	Soil	Prepared:	01/15/08
Units:	ug/Kg	Analyzed:	01/15/08
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.24	10.81	82	65-135
Heptachlor	13.24	11.43	86	65-135
Aldrin	13.24	10.89	82	65-135
Dieldrin	26.47	21.66	82	65-135
Endrin	26.47	19.48	74	65-135
4,4'-DDT	26.47	21.94	83	65-135

Surrogate	%REC	Limits
TCMX	86	65-135
Decachlorobiphenyl	81	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	133748
MSS Lab ID:	200522-001	Sampled:	01/14/08
Matrix:	Soil	Received:	01/14/08
Units:	ug/Kg	Prepared:	01/15/08
Basis:	dry	Analyzed:	01/21/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC423928

Moisture: 11%
Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.6247	14.93	10.85	73	65-135
Heptachlor	<0.6989	14.93	10.74	72	65-135
Aldrin	<0.6790	14.93	10.90	73	65-135
Dieldrin	<1.405	29.86	22.79	76	65-135
Endrin	<1.693	29.86	15.62	52 *	65-135
4,4'-DDT	<1.611	29.86	20.65	69	65-135

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	82	65-135

Type: MSD
Lab ID: QC423929

Moisture: 11%
Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	14.97	12.32	82	65-135	12	35
Heptachlor	14.97	12.60	84	65-135	16	35
Aldrin	14.97	12.49	83	65-135	13	35
Dieldrin	29.93	26.16	87	65-135	14	35
Endrin	29.93	22.50	75	65-135	36 *	35
4,4'-DDT	29.93	25.30	85	65-135	20	35

Surrogate	%REC	Limits
TCMX	86	65-135
Decachlorobiphenyl	90	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 PEST Soil: EPA 8081A

Inst : GC23
Calnum : 808022227001
Units : pg/uL

Name : pest_015
Date : 15-JAN-2008 13:58
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	015_011	808022227011	PEST_1	15-JAN-2008 13:58	S7396
L2	015_012	808022227012	PEST_2	15-JAN-2008 14:20	S7397
L3	015_013	808022227013	PEST_3	15-JAN-2008 14:42	S7905
L4	015_015	808022227015	PEST_5	15-JAN-2008 15:27	S7400
L5	015_016	808022227016	PEST_6	15-JAN-2008 15:49	S7401
L6	015_017	808022227017	PEST_7	15-JAN-2008 16:11	S7402
L7	015_019	808022227019	PEST_4	15-JAN-2008 16:55	S7399

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	11015	10863	9934.8	9381.8	9266.3	9316.2	9802.7	AVRG		1.01E-4		9939.9	7	0.990	20	
gamma-BHC	A	10456	10112	9151.2	8528.0	8362.5	8427.0	8897.2	AVRG		1.09E-4		9133.4	9	0.990	20	
beta-BHC	A	4546.5	4237.8	3734.4	3416.4	3230.0	3175.4	3551.5	AVRG		2.70E-4		3698.8	14	0.990	20	
delta-BHC	A	10570	9721.4	8706.1	8212.1	7963.9	8237.5	8492.1	AVRG		1.13E-4		8843.2	11	0.990	20	
Heptachlor	A	8898.0	8597.0	7900.3	7234.8	7136.0	7239.0	7529.5	AVRG		1.28E-4		7790.7	9	0.990	20	
Aldrin	A	9988.5	9582.8	8645.0	7987.7	7667.9	7532.3	8212.5	AVRG		1.17E-4		8516.7	11	0.990	20	
Heptachlor epoxide	A	9015.0	8473.4	7572.1	6924.8	6595.4	6405.4	7109.5	AVRG		1.34E-4		7442.2	13	0.990	20	
gamma-Chlordane	A	8692.5	8230.0	7348.2	6771.6	6427.8	6350.3	6863.8	AVRG		1.38E-4		7240.6	12	0.990	20	
alpha-Chlordane	A	8577.0	8015.8	7043.1	6452.4	6100.2	5955.5	6551.1	AVRG		1.44E-4		6956.4	14	0.990	20	
4,4'-DDE	A	7109.0	6653.1	5914.0	5502.8	5250.8	5266.7	5516.7	AVRG		1.70E-4		5887.6	12	0.990	20	
Endosulfan I	A	8483.5	7904.6	7044.6	6416.3	6066.9	5853.6	6518.8	AVRG		1.45E-4		6898.3	14	0.990	20	
Dieldrin	A	8336.0	7701.4	6878.0	6308.4	5966.6	5868.0	6396.1	AVRG		1.48E-4		6779.2	14	0.990	20	
Endrin	A	6590.8	6135.1	5520.2	5095.7	4924.3	4838.9	5139.8	AVRG		1.83E-4		5463.5	12	0.990	20	
4,4'-DDD	A	5589.8	5246.6	4544.7	4253.0	4040.5	3955.3	4194.8	AVRG		2.20E-4		4546.4	14	0.990	20	
Endosulfan II	A	6946.3	6294.8	5536.7	5027.3	4756.9	4644.7	5049.9	AVRG		1.83E-4		5465.2	16	0.990	20	
4,4'-DDT	A	5364.5	5086.0	4635.4	4310.3	4202.5	4134.0	4246.4	AVRG		2.19E-4		4568.4	11	0.990	20	
Endrin aldehyde	A	5752.0	5161.2	4521.3	4260.4	3909.8	3745.1	4145.8	AVRG		2.22E-4		4499.4	16	0.990	20	
Methoxychlor	A	2177.6	2004.4	1723.8	1588.1	1548.2		1559.6	AVRG		5.66E-4		1766.9	15	0.990	20	
Endosulfan sulfate	A	6081.5	5593.8	4880.4	4613.7	4453.5	4549.6	4503.0	AVRG		2.02E-4		4953.6	13	0.990	20	
Endrin ketone	A	6556.8	5826.6	4945.6	4520.3	4280.1		4539.3	AVRG		1.96E-4		5111.4	17	0.990	20	
TCMX	A	6816.5	6516.4	5788.8	5291.2	5081.1		5617.5	AVRG		1.71E-4		5851.9	12	0.990	20	
Decachlorobiphenyl	A	5178.0	4705.9	3755.9	3480.1	3377.4		3425.6	AVRG		2.51E-4		3987.1	19	0.990	20	
alpha-BHC	B	1690.0	1802.6	1846.7	2098.7	2380.4		1766.8	AVRG		5.18E-4		1930.9	13	0.990	20	
gamma-BHC	B	1568.5	1469.2	1547.4	1753.2	2026.5		1494.5	AVRG		6.09E-4		1643.2	13	0.990	20	
beta-BHC	B	740.00	744.00	742.80	827.00	848.78	867.29	687.05	AVRG		0.00128		779.56	9	0.990	20	
delta-BHC	B	1552.0	1588.0	1591.4	1900.5	2179.3		1573.5	AVRG		5.78E-4		1730.8	15	0.990	20	

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Heptachlor	B	1337.5	1409.6	1475.1	1744.4	2069.1		1445.5	AVRG		6.33E-4		1580.2	18	0.990	20	
Aldrin	B	1493.5	1486.8	1548.4	1785.8	2078.3		1500.1	AVRG		6.06E-4		1648.8	14	0.990	20	
Heptachlor epoxide	B	1294.5	1296.8	1331.1	1535.4	1754.0		1297.1	AVRG		7.05E-4		1418.1	13	0.990	20	
gamma-Chlordane	B	1243.5	1244.4	1293.5	1517.0	1766.1		1275.2	AVRG		7.19E-4		1389.9	15	0.990	20	
alpha-Chlordane	B	1173.0	1168.6	1217.3	1408.1	1635.6		1186.4	AVRG		7.70E-4		1298.2	15	0.990	20	
4,4'-DDE	B	1022.5	1049.1	1122.3	1601.9			1232.2	AVRG		8.29E-4		1205.6	20	0.990	20	
Endosulfan I	B	1123.0	1125.6	1179.4	1337.4	1549.7		1121.5	AVRG		8.07E-4		1239.4	14	0.990	20	
Dieldrin	B	1180.3	1188.2	1303.7	1808.9			1408.4	AVRG		7.26E-4		1377.9	19	0.990	20	
Endrin	B	743.50	789.30	871.55	1219.6			947.98	AVRG		0.00109		914.38	**21**	0.990	20	rsd ***
4,4'-DDD	B	752.75	791.60	825.75	1128.3			877.13	AVRG		0.00114		875.11	17	0.990	20	
Endosulfan II	B	851.50	863.70	936.55	1259.0			994.75	AVRG		0.00102		981.11	17	0.990	20	
4,4'-DDT	B	676.50	742.80	823.75	1187.9			905.15	AVRG		0.00115		867.22	**23**	0.990	20	rsd ***
Endrin aldehyde	B	603.00	610.60	649.40	819.28			666.03	AVRG		0.00149		669.66	13	0.990	20	
Methoxychlor	B	244.80	282.32	333.58	484.62	411.72		407.47	AVRG		0.00277		360.75	**25**	0.990	20	rsd ***
Endosulfan sulfate	B	637.25	659.30	701.85	923.26			737.90	AVRG		0.00137		731.91	16	0.990	20	
Endrin ketone	B	609.50	633.60	655.50	877.90			704.00	AVRG		0.00144		696.10	15	0.990	20	
TCMX	B	939.00	934.10	957.90	1055.6	1106.3		902.38	AVRG		0.00102		982.54	8	0.990	20	
Decachlorobiphenyl	B	434.50	433.90	479.40	527.34	581.37		467.88	AVRG		0.00205		487.40	12	0.990	20	
Average EPA 8081A	A												(n=22)	13		20	
Average EPA 8081A	B												(n=22)	16		20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
alpha-BHC	A	2.000	11	5.000	9	10.00	0	25.00	-6	50.00	-7	100.0	-6	20.00	-1
gamma-BHC	A	2.000	14	5.000	11	10.00	0	25.00	-7	50.00	-8	100.0	-8	20.00	-3
beta-BHC	A	2.000	23	5.000	15	10.00	1	25.00	-8	50.00	-13	100.0	-14	20.00	-4
delta-BHC	A	2.000	20	5.000	10	10.00	-2	25.00	-7	50.00	-10	100.0	-7	20.00	-4
Heptachlor	A	2.000	14	5.000	10	10.00	1	25.00	-7	50.00	-8	100.0	-7	20.00	-3
Aldrin	A	2.000	17	5.000	13	10.00	2	25.00	-6	50.00	-10	100.0	-12	20.00	-4
Heptachlor epoxide	A	2.000	21	5.000	14	10.00	2	25.00	-7	50.00	-11	100.0	-14	20.00	-4
gamma-Chlordane	A	2.000	20	5.000	14	10.00	1	25.00	-6	50.00	-11	100.0	-12	20.00	-5
alpha-Chlordane	A	2.000	23	5.000	15	10.00	1	25.00	-7	50.00	-12	100.0	-14	20.00	-6
4,4'-DDE	A	4.000	21	10.00	13	20.00	0	50.00	-7	100.0	-11	200.0	-11	40.00	-6
Endosulfan I	A	2.000	23	5.000	15	10.00	2	25.00	-7	50.00	-12	100.0	-15	20.00	-6
Dieldrin	A	4.000	23	10.00	14	20.00	1	50.00	-7	100.0	-12	200.0	-13	40.00	-6
Endrin	A	4.000	21	10.00	12	20.00	1	50.00	-7	100.0	-10	200.0	-11	40.00	-6
4,4'-DDD	A	4.000	23	10.00	15	20.00	0	50.00	-6	100.0	-11	200.0	-13	40.00	-8
Endosulfan II	A	4.000	27	10.00	15	20.00	1	50.00	-8	100.0	-13	200.0	-15	40.00	-8
4,4'-DDT	A	4.000	17	10.00	11	20.00	1	50.00	-6	100.0	-8	200.0	-10	40.00	-7
Endrin aldehyde	A	4.000	28	10.00	15	20.00	0	50.00	-5	100.0	-13	200.0	-17	40.00	-8
Methoxychlor	A	20.00	23	50.00	13	100.0	-2	250.0	-10	500.0	-12			200.0	-12
Endosulfan sulfate	A	4.000	23	10.00	13	20.00	-1	50.00	-7	100.0	-10	200.0	-8	40.00	-9
Endrin ketone	A	4.000	28	10.00	14	20.00	-3	50.00	-12	100.0	-16			40.00	-11
TCMX	A	4.000	16	10.00	11	20.00	-1	50.00	-10	100.0	-13			40.00	-4
Decachlorobiphenyl	A	4.000	30	10.00	18	20.00	-6	50.00	-13	100.0	-15			40.00	-14
alpha-BHC	B	2.000	-12	5.000	-7	10.00	-4	25.00	9	50.00	23			20.00	-8
gamma-BHC	B	2.000	-5	5.000	-11	10.00	-6	25.00	7	50.00	23			20.00	-9
beta-BHC	B	2.000	-5	5.000	-5	10.00	-5	25.00	6	50.00	9	100.0	11	20.00	-12
delta-BHC	B	2.000	-10	5.000	-8	10.00	-8	25.00	10	50.00	26			20.00	-9
Heptachlor	B	2.000	-15	5.000	-11	10.00	-7	25.00	10	50.00	31			20.00	-9
Aldrin	B	2.000	-9	5.000	-10	10.00	-6	25.00	8	50.00	26			20.00	-9
Heptachlor epoxide	B	2.000	-9	5.000	-9	10.00	-6	25.00	8	50.00	24			20.00	-9
gamma-Chlordane	B	2.000	-11	5.000	-10	10.00	-7	25.00	9	50.00	27			20.00	-8
alpha-Chlordane	B	2.000	-10	5.000	-10	10.00	-6	25.00	8	50.00	26			20.00	-9
4,4'-DDE	B	4.000	-15	10.00	-13	20.00	-7	50.00	33					40.00	2
Endosulfan I	B	2.000	-9	5.000	-9	10.00	-5	25.00	8	50.00	25			20.00	-10
Dieldrin	B	4.000	-14	10.00	-14	20.00	-5	50.00	31					40.00	2
Endrin	B	4.000	-19	10.00	-14	20.00	-5	50.00	33					40.00	4
4,4'-DDD	B	4.000	-14	10.00	-10	20.00	-6	50.00	29					40.00	0
Endosulfan II	B	4.000	-13	10.00	-12	20.00	-5	50.00	28					40.00	1
4,4'-DDT	B	4.000	-22	10.00	-14	20.00	-5	50.00	37					40.00	4
Endrin aldehyde	B	4.000	-10	10.00	-9	20.00	-3	50.00	22					40.00	-1
Methoxychlor	B	20.00	-32	50.00	-22	100.0	-8	250.0	34	500.0	14			200.0	13
Endosulfan sulfate	B	4.000	-13	10.00	-10	20.00	-4	50.00	26					40.00	1
Endrin ketone	B	4.000	-12	10.00	-9	20.00	-6	50.00	26					40.00	1

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
TCMX	B	4.000	-4	10.00	-5	20.00	-3	50.00	7	100.0	13			40.00	-8
Decachlorobiphenyl	B	4.000	-11	10.00	-11	20.00	-2	50.00	8	100.0	19			40.00	-4

ADM 01/16/08 : Pest_4 was reanalyzed after Pest_7 because the first pest_4 run appeared to be an outlier on channel B and was causing high RSDs for all compounds.

ADM 01/16/08 : Ezchrom software would not allow the removal of a split in alpha-bhc on channel B. Although this integration is inconsistent with the other points of the ICAL, the difference it makes is likely minimal.

ADM 01/16/08 : Dropped various points on channels A and B to improve RSDs.

Analyst: ADM Date: 01/16/08 Reviewer: EAH Date: 01/16/08

%sd=ICAL %RSD failure

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

808022227001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200520 PEST Soil
EPA 8081A

Inst : GC23
Calnum : 808022227001

Name : pest_015
Cal Date : 15-JAN-2008

ICV 808022227020 (015_020 15-JAN-2008) stds: S8107

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	9939.9	9084.9	25.00	22.85	pg/uL	-9	15	
gamma-BHC	A	9133.4	8216.0	25.00	22.49	pg/uL	-10	15	
beta-BHC	A	3698.8	3266.9	25.00	22.08	pg/uL	-12	15	
delta-BHC	A	8843.2	7866.1	25.00	22.24	pg/uL	-11	15	
Heptachlor	A	7790.7	6932.8	25.00	22.25	pg/uL	-11	15	
Aldrin	A	8516.7	7780.0	25.00	22.84	pg/uL	-9	15	
Heptachlor epoxide	A	7442.2	6651.1	25.00	22.34	pg/uL	-11	15	
gamma-Chlordane	A	7240.6	6545.9	25.00	22.60	pg/uL	-10	15	
alpha-Chlordane	A	6956.4	6307.8	25.00	22.67	pg/uL	-9	15	
4,4'-DDE	A	5887.6	5623.2	25.00	23.88	pg/uL	-4	15	
Endosulfan I	A	6898.3	6193.1	25.00	22.44	pg/uL	-10	15	
Dieldrin	A	6779.2	6629.0	25.00	24.45	pg/uL	-2	15	
Endrin	A	5463.5	5338.4	25.00	24.43	pg/uL	-2	15	
4,4'-DDD	A	4546.4	4289.3	25.00	23.59	pg/uL	-6	15	
Endosulfan II	A	5465.2	5246.5	25.00	24.00	pg/uL	-4	15	
4,4'-DDT	A	4568.4	4133.7	25.00	22.62	pg/uL	-10	15	
Endrin aldehyde	A	4499.4	4140.9	25.00	23.01	pg/uL	-8	15	
Methoxychlor	A	1766.9	1518.1	275.0	236.3	pg/uL	-14	15	
Endosulfan sulfate	A	4953.6	4547.6	25.00	22.95	pg/uL	-8	15	
Endrin ketone	A	5111.4	5083.9	25.00	24.87	pg/uL	-1	15	
alpha-BHC	B	1930.9	1852.3	25.00	23.98	pg/uL	-4	15	
gamma-BHC	B	1643.2	1535.1	25.00	23.35	pg/uL	-7	15	
beta-BHC	B	779.56	737.68	25.00	23.66	pg/uL	-5	15	
delta-BHC	B	1730.8	1722.2	25.00	24.88	pg/uL	0	15	
Heptachlor	B	1580.2	1585.1	25.00	25.08	pg/uL	0	15	
Aldrin	B	1648.8	1604.8	25.00	24.33	pg/uL	-3	15	
Heptachlor epoxide	B	1418.1	1361.8	25.00	24.01	pg/uL	-4	15	
gamma-Chlordane	B	1389.9	1369.6	25.00	24.63	pg/uL	-1	15	
alpha-Chlordane	B	1298.2	1283.4	25.00	24.72	pg/uL	-1	15	
4,4'-DDE	B	1205.6	1217.0	25.00	25.24	pg/uL	1	15	
Endosulfan I	B	1239.4	1220.5	25.00	24.62	pg/uL	-2	15	
Dieldrin	B	1377.9	1361.0	25.00	24.69	pg/uL	-1	15	
Endrin	B	914.38	860.96	25.00	23.54	pg/uL	-6	15	
4,4'-DDD	B	875.11	956.36	25.00	27.32	pg/uL	9	15	
Endosulfan II	B	981.11	969.24	25.00	24.70	pg/uL	-1	15	
4,4'-DDT	B	867.22	826.44	25.00	23.82	pg/uL	-5	15	
Endrin aldehyde	B	669.66	736.96	25.00	27.51	pg/uL	10	15	
Methoxychlor	B	360.75	450.40	275.0	343.3	pg/uL	**25**	15	v+ ***
Endosulfan sulfate	B	731.91	726.48	25.00	24.81	pg/uL	-1	15	
Endrin ketone	B	696.10	744.96	25.00	26.75	pg/uL	7	15	
Average EPA 8081A	A	n=20					8	15	
Average EPA 8081A	B	n=20					5	15	

+=high bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 200520 PEST Soil: EPA 8081A

Inst : GC23
Calnum : 808026566001
Units : pg/uL

Name : gc23pest_018
Date : 18-JAN-2008 13:59
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	018_009	808026566009	PEST_1	18-JAN-2008 13:59	S7396
L2	018_010	808026566010	PEST_2	18-JAN-2008 14:22	S7397
L3	018_011	808026566011	PEST_3	18-JAN-2008 14:44	S7905
L4	018_012	808026566012	PEST_4	18-JAN-2008 15:06	S7399
L5	018_013	808026566013	PEST_5	18-JAN-2008 15:28	S7400
L6	018_015	808026566015	PEST_7	18-JAN-2008 16:12	S7402
L7	018_017	808026566017	PEST_6	18-JAN-2008 16:57	S7401

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	12449	11458	11713	11942	11555	11465	10503	AVRG		8.63E-5		11584	5	0.990	20	
gamma-BHC	A	11678	10654	10839	10959	10616	10415	9550.4	AVRG		9.37E-5		10673	6	0.990	20	
beta-BHC	A	5152.5	4480.6	4488.1	4434.8	4222.8	3864.8	3719.4	AVRG		2.31E-4		4337.6	11	0.990	20	
delta-BHC	A	12080	10962	11044	11146	10772	10523	9580.7	AVRG		9.20E-5		10873	7	0.990	20	
Heptachlor	A	10210	9007.0	9580.3	9741.5	9367.7	9026.5	8283.3	AVRG		1.07E-4		9316.5	7	0.990	20	
Aldrin	A	11341	10146	10109	10233	9880.9	9407.5	8844.8	AVRG		1.00E-4		9994.6	8	0.990	20	
Heptachlor epoxide	A	10267	9047.4	8926.5	9059.0	8695.5	7979.7	7687.5	AVRG		1.14E-4		8808.9	10	0.990	20	
gamma-Chlordane	A	10075	8916.4	8747.7	8920.1	8614.3	8168.5	7659.6	AVRG		1.15E-4		8728.7	9	0.990	20	
alpha-Chlordane	A	9910.5	8616.6	8398.0	8568.2	8201.9	7709.0	7228.2	AVRG		1.19E-4		8376.0	10	0.990	20	
4,4'-DDE	A	8606.8	7420.4	7444.2	7723.0	7458.4	7084.2	6569.4	AVRG		1.34E-4		7472.3	8	0.990	20	
Endosulfan I	A	9643.0	8521.2	8315.2	8405.6	8096.9	7336.5	7197.1	AVRG		1.22E-4		8216.5	10	0.990	20	
Dieldrin	A	9591.5	8402.9	8271.0	8438.7	8151.1	7497.1	7145.0	AVRG		1.22E-4		8213.9	9	0.990	20	
Endrin	A	7355.0	6413.8	6551.0	6924.6	6731.5	6116.7	5881.4	AVRG		1.52E-4		6567.7	8	0.990	20	
4,4'-DDD	A	7069.0	6003.4	5926.8	6239.0	6074.0	5627.1	5297.9	AVRG		1.66E-4		6033.9	9	0.990	20	
Endosulfan II	A	8190.5	6988.6	6829.1	6961.3	6764.4	6160.5	5876.8	AVRG		1.47E-4		6824.5	11	0.990	20	
4,4'-DDT	A	6599.5	5662.4	5954.9	6323.5	6203.0	5843.6	5385.5	AVRG		1.67E-4		5996.1	7	0.990	20	
Endrin aldehyde	A	6884.5	5746.7	5731.7	5710.3	5653.0	5200.1	4849.6	AVRG		1.76E-4		5682.3	11	0.990	20	
Methoxychlor	A	2784.2	2276.9	2350.2	2452.5	2419.2		2081.1	AVRG		4.18E-4		2394.0	10	0.990	20	
Endosulfan sulfate	A	7537.0	6468.2	6228.1	6442.5	6335.7	6451.6	5672.5	AVRG		1.55E-4		6448.0	9	0.990	20	
Endrin ketone	A	8109.8	6541.7	6346.4	6563.0	6499.5	5617.6	5580.8	AVRG		1.55E-4		6465.5	13	0.990	20	
TCMX	A	7649.8	6708.0	6746.8	6504.5	5906.9	5896.1	5617.2	AVRG		1.55E-4		6432.7	11	0.990	20	
Decachlorobiphenyl	A	7274.3	5666.9	5429.5	5166.0	5356.1	5331.2	4831.9	AVRG		1.79E-4		5579.4	14	0.990	20	
alpha-BHC	B	7804.0	7999.2	7258.9	6313.7	6183.8	6397.1	6230.6	AVRG		1.45E-4		6883.9	11	0.990	20	
gamma-BHC	B	6744.0	7060.6	6539.3	5595.7	5403.5	5437.1	5334.3	AVRG		1.66E-4		6016.4	12	0.990	20	
beta-BHC	B	3602.0	3884.4	3292.7	2876.4	2943.6	2985.8	2944.6	AVRG		3.11E-4		3218.5	12	0.990	20	
delta-BHC	B	7071.5	7602.2	6719.9	5789.7	5762.5	5726.3	5628.1	AVRG		1.58E-4		6328.6	13	0.990	20	

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Heptachlor	B	6463.5	6925.4	6217.0	5261.8	5268.2	5377.2	5265.1	AVRG		1.72E-4		5825.5	12	0.990	20	
Aldrin	B	7354.0	7557.0	6747.1	5758.3	5645.4	5539.9	5537.5	AVRG		1.59E-4		6305.6	14	0.990	20	
Heptachlor epoxide	B	6440.5	6649.6	5943.7	5050.2	4941.2	4758.1	4788.0	AVRG		1.81E-4		5510.2	15	0.990	20	
gamma-Chlordane	B	6555.5	6668.4	5928.9	5006.1	4906.6	4770.1	4757.2	AVRG		1.81E-4		5513.3	15	0.990	20	
alpha-Chlordane	B	6198.5	6340.2	5651.5	4739.8	4663.0	4489.2	4485.4	AVRG		1.91E-4		5223.9	16	0.990	20	
4,4'-DDE	B	5477.0	5679.9	4887.5	3998.8	3918.2			AVRG		2.09E-4		4792.3	17	0.990	20	
Endosulfan I	B	5859.0	6104.8	5450.4	4472.1	4473.6	4257.9	4267.5	AVRG		2.01E-4		4983.6	16	0.990	20	
Dieldrin	B	5844.8	6085.0	5405.7	4428.9	4364.2		4067.1	AVRG		1.99E-4		5032.6	17	0.990	20	
Endrin	B	3790.5	4278.6	3771.9	3121.4	3037.2		3092.9	AVRG		2.84E-4		3515.4	14	0.990	20	
4,4'-DDD	B	4199.3	4349.4	3722.9	2963.3	3058.0			AVRG		2.73E-4		3658.6	17	0.990	20	
Endosulfan II	B	4777.5	5003.8	4357.8	3531.5	3534.5			AVRG		2.36E-4		4241.0	16	0.990	20	
4,4'-DDT	B	3896.8	4345.7	3791.4	3035.8	3065.9	2924.2	2848.2	AVRG		2.93E-4		3415.4	17	0.990	20	
Endrin aldehyde	B	3533.3	3765.5	3318.3	2716.1	2736.5			AVRG		3.11E-4		3213.9	15	0.990	20	
Methoxychlor	B	1479.5	1634.6	1332.9	1026.1	1016.5			AVRG		7.70E-4		1297.9	**21**	0.990	20	rsd ***
Endosulfan sulfate	B	3746.3	4125.2	3554.7	2915.5	2951.6	2892.1	2821.1	AVRG		3.04E-4		3286.6	16	0.990	20	
Endrin ketone	B	3915.5	4238.4	3645.1	2901.8	2937.9			AVRG		2.83E-4		3527.7	17	0.990	20	
TCMX	B	4452.3	4684.6	4184.0	3533.3	3470.0	3482.3	3447.6	AVRG		2.57E-4		3893.4	14	0.990	20	
Decachlorobiphenyl	B	3411.8	3883.9	3190.7	2534.9	2583.9	2783.6	2383.4	AVRG		3.37E-4		2967.4	18	0.990	20	
Average EPA 8081A	A												(n=22)	9		20	
Average EPA 8081A	B												(n=22)	15		20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
alpha-BHC	A	2.000	7	5.000	-1	10.00	1	20.00	3	25.00	0	100.0	-1	50.00	-9
gamma-BHC	A	2.000	9	5.000	0	10.00	2	20.00	3	25.00	-1	100.0	-2	50.00	-11
beta-BHC	A	2.000	19	5.000	3	10.00	3	20.00	2	25.00	-3	100.0	-11	50.00	-14
delta-BHC	A	2.000	11	5.000	1	10.00	2	20.00	3	25.00	-1	100.0	-3	50.00	-12
Heptachlor	A	2.000	10	5.000	-3	10.00	3	20.00	5	25.00	1	100.0	-3	50.00	-11
Aldrin	A	2.000	13	5.000	2	10.00	1	20.00	2	25.00	-1	100.0	-6	50.00	-12
Heptachlor epoxide	A	2.000	17	5.000	3	10.00	1	20.00	3	25.00	-1	100.0	-9	50.00	-13
gamma-Chlordane	A	2.000	15	5.000	2	10.00	0	20.00	2	25.00	-1	100.0	-6	50.00	-12
alpha-Chlordane	A	2.000	18	5.000	3	10.00	0	20.00	2	25.00	-2	100.0	-8	50.00	-14
4,4'-DDE	A	4.000	15	10.00	-1	20.00	0	40.00	3	50.00	0	200.0	-5	100.0	-12
Endosulfan I	A	2.000	17	5.000	4	10.00	1	20.00	2	25.00	-1	100.0	-11	50.00	-12
Dieldrin	A	4.000	17	10.00	2	20.00	1	40.00	3	50.00	-1	200.0	-9	100.0	-13
Endrin	A	4.000	12	10.00	-2	20.00	0	40.00	5	50.00	2	200.0	-7	100.0	-10
4,4'-DDD	A	4.000	17	10.00	-1	20.00	-2	40.00	3	50.00	1	200.0	-7	100.0	-12
Endosulfan II	A	4.000	20	10.00	2	20.00	0	40.00	2	50.00	-1	200.0	-10	100.0	-14
4,4'-DDT	A	4.000	10	10.00	-6	20.00	-1	40.00	5	50.00	3	200.0	-3	100.0	-10
Endrin aldehyde	A	4.000	21	10.00	1	20.00	1	40.00	0	50.00	-1	200.0	-8	100.0	-15
Methoxychlor	A	20.00	16	50.00	-5	100.0	-2	200.0	2	250.0	1			500.0	-13
Endosulfan sulfate	A	4.000	17	10.00	0	20.00	-3	40.00	0	50.00	-2	200.0	0	100.0	-12
Endrin ketone	A	4.000	25	10.00	1	20.00	-2	40.00	2	50.00	1	200.0	-13	100.0	-14
TCMX	A	4.000	19	10.00	4	20.00	5	40.00	1	50.00	-8	200.0	-8	100.0	-13
Decachlorobiphenyl	A	4.000	30	10.00	2	20.00	-3	40.00	-7	50.00	-4	200.0	-4	100.0	-13
alpha-BHC	B	2.000	13	5.000	16	10.00	5	20.00	-8	25.00	-10	100.0	-7	50.00	-9
gamma-BHC	B	2.000	12	5.000	17	10.00	9	20.00	-7	25.00	-10	100.0	-10	50.00	-11
beta-BHC	B	2.000	12	5.000	21	10.00	2	20.00	-11	25.00	-9	100.0	-7	50.00	-9
delta-BHC	B	2.000	12	5.000	20	10.00	6	20.00	-9	25.00	-9	100.0	-10	50.00	-11
Heptachlor	B	2.000	11	5.000	19	10.00	7	20.00	-10	25.00	-10	100.0	-8	50.00	-10
Aldrin	B	2.000	17	5.000	20	10.00	7	20.00	-9	25.00	-10	100.0	-12	50.00	-12
Heptachlor epoxide	B	2.000	17	5.000	21	10.00	8	20.00	-8	25.00	-10	100.0	-14	50.00	-13
gamma-Chlordane	B	2.000	19	5.000	21	10.00	8	20.00	-9	25.00	-11	100.0	-13	50.00	-14
alpha-Chlordane	B	2.000	19	5.000	21	10.00	8	20.00	-9	25.00	-11	100.0	-14	50.00	-14
4,4'-DDE	B	4.000	14	10.00	19	20.00	2	40.00	-17	50.00	-18				
Endosulfan I	B	2.000	18	5.000	22	10.00	9	20.00	-10	25.00	-10	100.0	-15	50.00	-14
Dieldrin	B	4.000	16	10.00	21	20.00	7	40.00	-12	50.00	-13			100.0	-19
Endrin	B	4.000	8	10.00	22	20.00	7	40.00	-11	50.00	-14			100.0	-12
4,4'-DDD	B	4.000	15	10.00	19	20.00	2	40.00	-19	50.00	-16				
Endosulfan II	B	4.000	13	10.00	18	20.00	3	40.00	-17	50.00	-17				
4,4'-DDT	B	4.000	14	10.00	27	20.00	11	40.00	-11	50.00	-10	200.0	-14	100.0	-17
Endrin aldehyde	B	4.000	10	10.00	17	20.00	3	40.00	-15	50.00	-15				
Methoxychlor	B	20.00	14	50.00	26	100.0	3	200.0	-21	250.0	-22				
Endosulfan sulfate	B	4.000	14	10.00	26	20.00	8	40.00	-11	50.00	-10	200.0	-12	100.0	-14
Endrin ketone	B	4.000	11	10.00	20	20.00	3	40.00	-18	50.00	-17				

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
TCMX	B	4.000	14	10.00	20	20.00	7	40.00	-9	50.00	-11	200.0	-11	100.0	-11
Decachlorobiphenyl	B	4.000	15	10.00	31	20.00	8	40.00	-15	50.00	-13	200.0	-6	100.0	-20

ADM 01/21/08 : Various points dropped to improve RSDs.

ADM 01/21/08 : Pest_6 was reanalyzed after Pest_7 because the first run of pest_6 appeared to be an outlier on channel B and was causing high RPDs.

Analyst: ADM Date: 01/21/08 Reviewer: EAH Date: 01/21/08

Red=ICAL %RSD failure

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 200520 PEST Soil
EPA 8081A

Inst : GC23
Calnum : 808026566001

Name : gc23pest_018
Cal Date : 18-JAN-2008

ICV 808026566018 (018_018 18-JAN-2008) stds: S8107

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	11584	10777	25.00	23.26	pg/uL	-7	15	
gamma-BHC	A	10673	9810.4	25.00	22.98	pg/uL	-8	15	
beta-BHC	A	4337.6	3909.0	25.00	22.53	pg/uL	-10	15	
delta-BHC	A	10873	9881.5	25.00	22.72	pg/uL	-9	15	
Heptachlor	A	9316.5	8492.2	25.00	22.79	pg/uL	-9	15	
Aldrin	A	9994.6	9176.6	25.00	22.95	pg/uL	-8	15	
Heptachlor epoxide	A	8808.9	7944.2	25.00	22.55	pg/uL	-10	15	
gamma-Chlordane	A	8728.7	7852.6	25.00	22.49	pg/uL	-10	15	
alpha-Chlordane	A	8376.0	7569.8	25.00	22.59	pg/uL	-10	15	
4,4'-DDE	A	7472.3	7050.9	25.00	23.59	pg/uL	-6	15	
Endosulfan I	A	8216.5	7367.1	25.00	22.42	pg/uL	-10	15	
Dieldrin	A	8213.9	7972.5	25.00	24.27	pg/uL	-3	15	
Endrin	A	6567.7	6310.8	25.00	24.02	pg/uL	-4	15	
4,4'-DDD	A	6033.9	5576.6	25.00	23.11	pg/uL	-8	15	
Endosulfan II	A	6824.5	6456.3	25.00	23.65	pg/uL	-5	15	
4,4'-DDT	A	5996.1	5255.2	25.00	21.91	pg/uL	-12	15	
Endrin aldehyde	A	5682.3	5173.3	25.00	22.76	pg/uL	-9	15	
Methoxychlor	A	2394.0	2035.1	275.0	233.8	pg/uL	-15	15	
Endosulfan sulfate	A	6448.0	5824.9	25.00	22.58	pg/uL	-10	15	
Endrin ketone	A	6465.5	6622.2	25.00	25.61	pg/uL	2	15	
alpha-BHC	B	6883.9	5880.1	25.00	21.35	pg/uL	-15	15	
gamma-BHC	B	6016.4	5126.0	25.00	21.30	pg/uL	-15	15	
beta-BHC	B	3218.5	2742.1	25.00	21.30	pg/uL	-15	15	
delta-BHC	B	6328.6	5499.5	25.00	21.72	pg/uL	-13	15	
Heptachlor	B	5825.5	5048.5	25.00	21.67	pg/uL	-13	15	
Aldrin	B	6305.6	5405.0	25.00	21.43	pg/uL	-14	15	
Heptachlor epoxide	B	5510.2	4673.1	25.00	21.20	pg/uL	-15	15	
gamma-Chlordane	B	5513.3	4691.0	25.00	21.27	pg/uL	-15	15	
alpha-Chlordane	B	5223.9	4467.5	25.00	21.38	pg/uL	-14	15	
4,4'-DDE	B	4792.3	4053.4	25.00	21.15	pg/uL	-15	15	
Endosulfan I	B	4983.6	4270.8	25.00	21.42	pg/uL	-14	15	
Dieldrin	B	5032.6	4564.7	25.00	22.68	pg/uL	-9	15	
Endrin	B	3515.4	3269.0	25.00	23.25	pg/uL	-7	15	
4,4'-DDD	B	3658.6	3036.9	25.00	20.75	pg/uL	**-17**	15	v- ***
Endosulfan II	B	4241.0	3635.0	25.00	21.43	pg/uL	-14	15	
4,4'-DDT	B	3415.4	2880.8	25.00	21.09	pg/uL	**-16**	15	v- ***
Endrin aldehyde	B	3213.9	2941.4	25.00	22.88	pg/uL	-8	15	
Methoxychlor	B	1297.9	948.91	275.0	201.1	pg/uL	**-27**	15	v- ***
Endosulfan sulfate	B	3286.6	2904.4	25.00	22.09	pg/uL	-12	15	
Endrin ketone	B	3527.7	3064.1	25.00	21.71	pg/uL	-13	15	
Average EPA 8081A	A	n=20					8	15	
Average EPA 8081A	B	n=20					14	15	

-=low bias v=ICV

808026566001 ICVs

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 200520 PEST Soil
EPA 8081A

Inst : GC23
Seqnum : 808022227009
Run Name : PEM
File : 015_009
IDF : 1.0
Time : 15-JAN-2008 13:14

Standards: S7761

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	365688	5	15	
4,4'-DDE	A	3504			
4,4'-DDD	A	15270			
Endrin	A	234164	12	15	
Endrin aldehyde	A	17375			
Endrin ketone	A	15815			
4,4'-DDT	B	125076	3	15	
4,4'-DDE	B	746			
4,4'-DDD	B	3006			
Endrin	B	52186	8	15	
Endrin aldehyde	B	1701			
Endrin ketone	B	2682			

Analyst: ADM Date: 01/16/08 Reviewer: EAH Date: 01/16/08

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 200520 PEST Soil
EPA 8081A

Inst : GC23
Seqnum : 808022227028
Run Name : PEM
File : 015_028
IDF : 1.0
Time : 15-JAN-2008 20:36

Standards: S7761

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	396022	4	15	
4,4'-DDE	A	3102			
4,4'-DDD	A	15230			
Endrin	A	260592	10	15	
Endrin aldehyde	A	13799			
Endrin ketone	A	14708			
4,4'-DDT	B	128137	3	15	
4,4'-DDE	B	809			
4,4'-DDD	B	3264			
Endrin	B	58149	6	15	
Endrin aldehyde	B	1442			
Endrin ketone	B	2509			

Analyst: GP Date: 01/16/08 Reviewer: LH Date: 01/16/08

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 200520 PEST Soil
EPA 8081A

Inst : GC23
Seqnum : 808030603025
Run Name : PEM
File : 021_025
IDF : 1.0
Time : 21-JAN-2008 18:02

Standards: S7761

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	445693	10	15	
4,4'-DDE	A	4128			
4,4'-DDD	A	46455			
Endrin	A	300950	13	15	
Endrin aldehyde	A	16194			
Endrin ketone	A	27772			
4,4'-DDT	B	299679	11	15	
4,4'-DDE	B	2596			
4,4'-DDD	B	33815			
Endrin	B	196736	11	15	
Endrin aldehyde	B	7593			
Endrin ketone	B	15733			

Analyst: ADM Date: 01/22/08 Reviewer: EAH Date: 01/22/08

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 200520 PEST Soil
EPA 8081A

Inst : GC23
Seqnum : 808030603038
Run Name : PEM
File : 021_038
IDF : 1.0
Time : 21-JAN-2008 23:33

Standards: S7761

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	536303	8	15	
4,4'-DDE	A	4250			
4,4'-DDD	A	40889			
Endrin	A	331741	14	15	
Endrin aldehyde	A	18937			
Endrin ketone	A	32848			
4,4'-DDT	B	353474	10	15	
4,4'-DDE	B	2516			
4,4'-DDD	B	36004			
Endrin	B	215360	11	15	
Endrin aldehyde	B	8472			
Endrin ketone	B	19383			

Analyst: ADM Date: 01/22/08 Reviewer: EAH Date: 01/22/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 PEST Soil
EPA 8081A

Inst : GC23
Seqnum : 808022227029
Cal : 808022227001
Standards: S7905

Run Name : PEST_3
File : 015_029
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 20:58

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	9939.9	10148	10.00	10.21	pg/uL	2	15	
gamma-BHC	A	9133.4	9382.2	10.00	10.27	pg/uL	3	15	
beta-BHC	A	3698.8	3840.9	10.00	10.38	pg/uL	4	15	
delta-BHC	A	8843.2	9329.0	10.00	10.55	pg/uL	5	15	
Heptachlor	A	7790.7	8120.0	10.00	10.42	pg/uL	4	15	
Aldrin	A	8516.7	8773.7	10.00	10.30	pg/uL	3	15	
Heptachlor epoxide	A	7442.2	7730.5	10.00	10.39	pg/uL	4	15	
gamma-Chlordane	A	7240.6	7529.8	10.00	10.40	pg/uL	4	15	
alpha-Chlordane	A	6956.4	7257.8	10.00	10.43	pg/uL	4	15	
4,4'-DDE	A	5887.6	6178.2	20.00	20.99	pg/uL	5	15	
Endosulfan I	A	6898.3	7138.3	10.00	10.35	pg/uL	3	15	
Dieldrin	A	6779.2	7048.1	20.00	20.79	pg/uL	4	15	
Endrin	A	5463.5	5726.0	20.00	20.96	pg/uL	5	15	
4,4'-DDD	A	4546.4	4772.6	20.00	20.99	pg/uL	5	15	
Endosulfan II	A	5465.2	5709.3	20.00	20.89	pg/uL	4	15	
4,4'-DDT	A	4568.4	4904.9	20.00	21.47	pg/uL	7	15	
Endrin aldehyde	A	4499.4	4818.1	20.00	21.42	pg/uL	7	15	
Methoxychlor	A	1766.9	1843.8	100.0	104.4	pg/uL	4	15	
Endosulfan sulfate	A	4953.6	5100.1	20.00	20.59	pg/uL	3	15	
Endrin ketone	A	5111.4	5163.9	20.00	20.21	pg/uL	1	15	
TCMX	A	5851.9	5893.6	20.00	20.14	pg/uL	1	15	
Decachlorobiphenyl	A	3987.1	3994.7	20.00	20.04	pg/uL	0	15	
alpha-BHC	B	1930.9	1926.4	10.00	9.977	pg/uL	0	15	
gamma-BHC	B	1643.2	1595.4	10.00	9.709	pg/uL	-3	15	
beta-BHC	B	779.56	802.80	10.00	10.30	pg/uL	3	15	
delta-BHC	B	1730.8	1710.8	10.00	9.885	pg/uL	-1	15	
Heptachlor	B	1580.2	1558.9	10.00	9.865	pg/uL	-1	15	
Aldrin	B	1648.8	1638.9	10.00	9.940	pg/uL	-1	15	
Heptachlor epoxide	B	1418.1	1429.0	10.00	10.08	pg/uL	1	15	
gamma-Chlordane	B	1389.9	1385.4	10.00	9.967	pg/uL	0	15	
alpha-Chlordane	B	1298.2	1297.7	10.00	9.996	pg/uL	0	15	
4,4'-DDE	B	1205.6	1243.1	20.00	20.62	pg/uL	3	15	
Endosulfan I	B	1239.4	1247.8	10.00	10.07	pg/uL	1	15	
Dieldrin	B	1377.9	1406.8	20.00	20.42	pg/uL	2	15	
Endrin	B	914.38	931.35	20.00	20.37	pg/uL	2	15	rsd ***
4,4'-DDD	B	875.11	941.45	20.00	21.52	pg/uL	8	15	
Endosulfan II	B	981.11	1032.3	20.00	21.04	pg/uL	5	15	
4,4'-DDT	B	867.22	937.25	20.00	21.62	pg/uL	8	15	rsd ***
Endrin aldehyde	B	669.66	715.00	20.00	21.35	pg/uL	7	15	
Methoxychlor	B	360.75	395.21	100.0	109.6	pg/uL	10	15	rsd ***
Endosulfan sulfate	B	731.91	779.50	20.00	21.30	pg/uL	7	15	
Endrin ketone	B	696.10	749.35	20.00	21.53	pg/uL	8	15	
TCMX	B	982.54	998.65	20.00	20.33	pg/uL	2	15	
Decachlorobiphenyl	B	487.40	527.00	20.00	21.63	pg/uL	8	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					4	15	

808022227029

00080

Analyst: GP Date: 01/16/08 Reviewer: LH Date: 01/16/08

rsd=ICAL %RSD failure

808022227029

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 PEST Soil
EPA 8081A

Inst : GC23
Seqnum : 808030603027
Cal : 808026566001
Standards: S8219

Run Name : PEST_4
File : 021_027
Caldate : 18-JAN-2008

IDF : 1.0
Time : 21-JAN-2008 19:30

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	11584	11416	20.00	19.71	pg/uL	-1	15	
gamma-BHC	A	10673	10470	20.00	19.62	pg/uL	-2	15	
beta-BHC	A	4337.6	4058.4	20.00	18.71	pg/uL	-6	15	
delta-BHC	A	10873	10327	20.00	19.00	pg/uL	-5	15	
Heptachlor	A	9316.5	9018.7	20.00	19.36	pg/uL	-3	15	
Aldrin	A	9994.6	9672.7	20.00	19.36	pg/uL	-3	15	
Heptachlor epoxide	A	8808.9	8457.2	20.00	19.20	pg/uL	-4	15	
gamma-Chlordane	A	8728.7	8276.0	20.00	18.96	pg/uL	-5	15	
alpha-Chlordane	A	8376.0	7895.1	20.00	18.85	pg/uL	-6	15	
4,4'-DDE	A	7472.3	7017.1	40.00	37.56	pg/uL	-6	15	
Endosulfan I	A	8216.5	7811.4	20.00	19.01	pg/uL	-5	15	
Dieldrin	A	8213.9	7893.7	40.00	38.44	pg/uL	-4	15	
Endrin	A	6567.7	6388.0	40.00	38.91	pg/uL	-3	15	
4,4'-DDD	A	6033.9	5713.6	40.00	37.88	pg/uL	-5	15	
Endosulfan II	A	6824.5	6342.8	40.00	37.18	pg/uL	-7	15	
4,4'-DDT	A	5996.1	5162.0	40.00	34.44	pg/uL	-14	15	
Endrin aldehyde	A	5682.3	4996.0	40.00	35.17	pg/uL	-12	15	
Methoxychlor	A	2394.0	2033.8	200.0	169.9	pg/uL	-15	15	
Endosulfan sulfate	A	6448.0	5575.5	40.00	34.59	pg/uL	-14	15	
Endrin ketone	A	6465.5	6046.4	40.00	37.41	pg/uL	-6	15	
TCMX	A	6432.7	6262.8	40.00	38.94	pg/uL	-3	15	
Decachlorobiphenyl	A	5579.4	4645.4	40.00	33.30	pg/uL	**-17**	15	c-
alpha-BHC	B	6883.9	7845.2	20.00	22.79	pg/uL	14	15	
gamma-BHC	B	6016.4	6940.9	20.00	23.07	pg/uL	15	15	
beta-BHC	B	3218.5	3542.5	20.00	22.01	pg/uL	10	15	
delta-BHC	B	6328.6	7197.1	20.00	22.74	pg/uL	14	15	
Heptachlor	B	5825.5	6740.7	20.00	23.14	pg/uL	**16**	15	c+ ***
Aldrin	B	6305.6	7029.9	20.00	22.30	pg/uL	11	15	
Heptachlor epoxide	B	5510.2	6107.0	20.00	22.17	pg/uL	11	15	
gamma-Chlordane	B	5513.3	6007.4	20.00	21.79	pg/uL	9	15	
alpha-Chlordane	B	5223.9	5710.0	20.00	21.86	pg/uL	9	15	
4,4'-DDE	B	4792.3	4889.6	40.00	40.81	pg/uL	2	15	
Endosulfan I	B	4983.6	5458.2	20.00	21.90	pg/uL	10	15	
Dieldrin	B	5032.6	5377.2	40.00	42.74	pg/uL	7	15	
Endrin	B	3515.4	4118.8	40.00	46.87	pg/uL	**17**	15	c+ ***
4,4'-DDD	B	3658.6	3863.8	40.00	42.24	pg/uL	6	15	
Endosulfan II	B	4241.0	4355.4	40.00	41.08	pg/uL	3	15	
4,4'-DDT	B	3415.4	3399.3	40.00	39.81	pg/uL	0	15	
Endrin aldehyde	B	3213.9	3345.0	40.00	41.63	pg/uL	4	15	
Methoxychlor	B	1297.9	1208.6	200.0	186.2	pg/uL	-7	15	rsd ***
Endosulfan sulfate	B	3286.6	3607.2	40.00	43.90	pg/uL	10	15	
Endrin ketone	B	3527.7	3891.5	40.00	44.12	pg/uL	10	15	
TCMX	B	3893.4	4463.4	40.00	45.86	pg/uL	15	15	
Decachlorobiphenyl	B	2967.4	3018.2	40.00	40.68	pg/uL	2	15	
Average EPA 8081A	A	(n=22)					7	15	
Average EPA 8081A	B	(n=22)					9	15	

ADM 01/22/08 : New Pest_4: S8219.

808030603027

Analyst: ADM Date: 01/22/08 Reviewer: EAH Date: 01/22/08

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure

808030603027

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 200520 PEST Soil
EPA 8081A

Inst : GC23
Seqnum : 808030603039
Cal : 808026566001
Standards: S7905

Run Name : PEST_3
File : 021_039
Caldate : 18-JAN-2008

IDF : 1.0
Time : 21-JAN-2008 23:55

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	11584	12067	10.00	10.42	pg/uL	4	15	
gamma-BHC	A	10673	11302	10.00	10.59	pg/uL	6	15	
beta-BHC	A	4337.6	4644.4	10.00	10.71	pg/uL	7	15	
delta-BHC	A	10873	11412	10.00	10.50	pg/uL	5	15	
Heptachlor	A	9316.5	9985.6	10.00	10.72	pg/uL	7	15	
Aldrin	A	9994.6	10608	10.00	10.61	pg/uL	6	15	
Heptachlor epoxide	A	8808.9	9513.6	10.00	10.80	pg/uL	8	15	
gamma-Chlordane	A	8728.7	9346.4	10.00	10.71	pg/uL	7	15	
alpha-Chlordane	A	8376.0	9005.0	10.00	10.75	pg/uL	8	15	
4,4'-DDE	A	7472.3	8247.0	20.00	22.07	pg/uL	10	15	
Endosulfan I	A	8216.5	8955.0	10.00	10.90	pg/uL	9	15	
Dieldrin	A	8213.9	9004.5	20.00	21.93	pg/uL	10	15	
Endrin	A	6567.7	7212.5	20.00	21.96	pg/uL	10	15	
4,4'-DDD	A	6033.9	6707.8	20.00	22.23	pg/uL	11	15	
Endosulfan II	A	6824.5	7486.8	20.00	21.94	pg/uL	10	15	
4,4'-DDT	A	5996.1	6316.3	20.00	21.07	pg/uL	5	15	
Endrin aldehyde	A	5682.3	5994.6	20.00	21.10	pg/uL	5	15	
Methoxychlor	A	2394.0	2575.9	100.0	107.6	pg/uL	8	15	
Endosulfan sulfate	A	6448.0	6591.7	20.00	20.45	pg/uL	2	15	
Endrin ketone	A	6465.5	7454.9	20.00	23.06	pg/uL	15	15	
TCMX	A	6432.7	6772.0	20.00	21.05	pg/uL	5	15	
Decachlorobiphenyl	A	5579.4	5956.8	20.00	21.35	pg/uL	7	15	
alpha-BHC	B	6883.9	7271.4	10.00	10.56	pg/uL	6	15	
gamma-BHC	B	6016.4	6319.1	10.00	10.50	pg/uL	5	15	
beta-BHC	B	3218.5	3620.3	10.00	11.25	pg/uL	12	15	
delta-BHC	B	6328.6	6768.0	10.00	10.69	pg/uL	7	15	
Heptachlor	B	5825.5	6335.6	10.00	10.88	pg/uL	9	15	
Aldrin	B	6305.6	6772.8	10.00	10.74	pg/uL	7	15	
Heptachlor epoxide	B	5510.2	5953.2	10.00	10.80	pg/uL	8	15	
gamma-Chlordane	B	5513.3	5927.6	10.00	10.75	pg/uL	8	15	
alpha-Chlordane	B	5223.9	5584.0	10.00	10.69	pg/uL	7	15	
4,4'-DDE	B	4792.3	4819.1	20.00	20.11	pg/uL	1	15	
Endosulfan I	B	4983.6	5376.0	10.00	10.79	pg/uL	8	15	
Dieldrin	B	5032.6	5336.8	20.00	21.21	pg/uL	6	15	
Endrin	B	3515.4	3819.8	20.00	21.73	pg/uL	9	15	
4,4'-DDD	B	3658.6	3758.4	20.00	20.55	pg/uL	3	15	
Endosulfan II	B	4241.0	4299.5	20.00	20.28	pg/uL	1	15	
4,4'-DDT	B	3415.4	3251.7	20.00	19.04	pg/uL	-5	15	
Endrin aldehyde	B	3213.9	3281.8	20.00	20.42	pg/uL	2	15	
Methoxychlor	B	1297.9	1230.9	100.0	94.84	pg/uL	-5	15	rsd ***
Endosulfan sulfate	B	3286.6	3554.4	20.00	21.63	pg/uL	8	15	
Endrin ketone	B	3527.7	3954.9	20.00	22.42	pg/uL	12	15	
TCMX	B	3893.4	4238.8	20.00	21.77	pg/uL	9	15	
Decachlorobiphenyl	B	2967.4	2936.9	20.00	19.79	pg/uL	-1	15	
Average EPA 8081A	A	(n=22)					8	15	
Average EPA 8081A	B	(n=22)					6	15	

808030603039

Analyst: ADM Date: 01/22/08 Reviewer: EAH Date: 01/22/08

rsd=ICAL %RSD failure

808030603039

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 808022227

Instrument : GC23
Method : EPA 8081A

Begun : 01/15/08 10:27
SOP Version : 8081_rv7

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	015_001	X	PRIMER			01/15/08 10:27	1.0	
002	015_002	X	PRIMER			01/15/08 10:50	1.0	
003	015_003	X	PRIMER			01/15/08 11:13	1.0	
004	015_004	X	PRIMER			01/15/08 11:31	1.0	
005	015_005	X	PRIMER			01/15/08 11:50	1.0	
006	015_006	X	HEX			01/15/08 12:18	1.0	
007	015_007	X	HEX			01/15/08 12:36	1.0	
008	015_008	X	HEX			01/15/08 12:55	1.0	
009	015_009	PEM	PEM			01/15/08 13:14	1.0	1
010	015_010	IB	HEX			01/15/08 13:36	1.0	
011	015_011	ICAL	PEST_1			01/15/08 13:58	1.0	2
012	015_012	ICAL	PEST_2			01/15/08 14:20	1.0	3
013	015_013	ICAL	PEST_3			01/15/08 14:42	1.0	4
014	015_014	X	PEST_4			01/15/08 15:05	1.0	5
015	015_015	ICAL	PEST_5			01/15/08 15:27	1.0	6
016	015_016	ICAL	PEST_6			01/15/08 15:49	1.0	7
017	015_017	ICAL	PEST_7			01/15/08 16:11	1.0	8
018	015_018	X	HEX			01/15/08 16:33	1.0	
019	015_019	ICAL	PEST_4			01/15/08 16:55	1.0	5
020	015_020	ICV	ICV			01/15/08 17:18	1.0	9
021	015_021	LCS	QC423927	Soil	133748	01/15/08 17:45	1.0	
022	015_022	BLANK	QC423926	Soil	133748	01/15/08 18:08	1.0	
023	015_023	MSS	200522-001	Soil	133748	01/15/08 18:42	1.0	
024	015_024	MS	QC423928	Soil	133748	01/15/08 19:04	1.0	
025	015_025	MSD	QC423929	Soil	133748	01/15/08 19:30	1.0	
026	015_026	LCS	QC423927	Soil	133748	01/15/08 19:52	1.0	
027	015_027	SAMPLE	200520-005	Soil	133748	01/15/08 20:14	1.0	
028	015_028	PEM	PEM			01/15/08 20:36	1.0	1
029	015_029	CCV	PEST_3			01/15/08 20:58	1.0	4
030	015_030	X,CCV	PEST_3			01/15/08 21:20	1.0	4
031	015_031	X,PEM	PEM			01/15/08 21:42	1.0	1

Standards used: 1=S7761 2=S7396 3=S7397 4=S7905 5=S7399 6=S7400 7=S7401 8=S7402 9=S8107

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 808026566

Instrument : GC23
Method : EPA 8081A

Begun : 01/18/08 10:46
SOP Version : 8081_rv7

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	018_001	X	PEM			01/18/08 10:46	1.0	1	
002	018_002	X	PEST_3			01/18/08 11:08	1.0	2	
003	018_003	X	PEM			01/18/08 11:35	1.0	1	
005	018_005	X	PEST_3TEST			01/18/08 12:22	1.0	2	
006	018_006	X	PEST_4			01/18/08 12:51	1.0		
007	018_007	PEM	PEM			01/18/08 13:15	1.0	1	
008	018_008	IB	HEX			01/18/08 13:37	1.0		
009	018_009	ICAL	PEST_1			01/18/08 13:59	1.0	3	
010	018_010	ICAL	PEST_2			01/18/08 14:22	1.0	4	
011	018_011	ICAL	PEST_3			01/18/08 14:44	1.0	2	
012	018_012	ICAL	PEST_4			01/18/08 15:06	1.0	5	
013	018_013	ICAL	PEST_5			01/18/08 15:28	1.0	6	
014	018_014	X	PEST_6			01/18/08 15:50	1.0	7	
015	018_015	ICAL	PEST_7			01/18/08 16:12	1.0	8	
016	018_016	X	HEX			01/18/08 16:35	1.0		
017	018_017	ICAL	PEST_6			01/18/08 16:57	1.0	7	
018	018_018	ICV	ICV			01/18/08 17:20	1.0	9	
019	018_019	X	PEM			01/18/08 18:55	1.0	1	
020	018_020	PEM	PEM			01/18/08 19:18	1.0	1	
021	018_021	BLANK	QC424472	Soil	133876	01/18/08 19:40	1.0		
022	018_022	BLANK	QC424493	Soil	133882	01/18/08 20:02	1.0		
023	018_023	LCS	QC424473	Soil	133876	01/18/08 20:24	1.0		
024	018_024	LCS	QC424497	Soil	133882	01/18/08 20:46	1.0		
025	018_025	MSS	200596-008	Soil	133876	01/18/08 21:08	1.0		
026	018_026	MS	QC424474	Soil	133876	01/18/08 21:30	1.0		
027	018_027	MSD	QC424475	Soil	133876	01/18/08 21:52	1.0		
028	018_028	SAMPLE	200596-001	Soil	133876	01/18/08 22:15	1.0		
029	018_029	SAMPLE	200596-002	Soil	133876	01/18/08 22:37	1.0		
030	018_030	SAMPLE	200596-003	Soil	133876	01/18/08 22:59	1.0		
031	018_031	PEM	PEM			01/18/08 23:21	1.0	1	
032	018_032	CCV	PEST_3			01/18/08 23:43	1.0	2	
033	018_033	X	CCV			01/19/08 00:05	1.0	2	
034	018_034	X	PEM			01/19/08 00:27	1.0	1	
035	018_035	SAMPLE	200596-004	Soil	133876	01/19/08 00:49	1.0		
036	018_036	SAMPLE	200596-005	Soil	133876	01/19/08 01:11	1.0		
037	018_037	SAMPLE	200596-006	Soil	133876	01/19/08 01:34	1.0		
038	018_038	SAMPLE	200596-007	Soil	133876	01/19/08 01:56	3.0		
039	018_039	SAMPLE	200596-012	Soil	133876	01/19/08 02:18	1.0		
040	018_040	SAMPLE	200596-013	Soil	133876	01/19/08 02:40	1.0		
041	018_041	SAMPLE	200596-014	Soil	133876	01/19/08 03:02	1.0		
042	018_042	SAMPLE	200596-015	Soil	133876	01/19/08 03:24	1.0		
043	018_043	SAMPLE	200596-016	Soil	133876	01/19/08 03:46	1.0		
044	018_044	SAMPLE	200596-017	Soil	133876	01/19/08 04:09	5.0		
045	018_045	PEM	PEM			01/19/08 04:31	1.0	1	
046	018_046	CCV	PEST_4			01/19/08 04:53	1.0	5	
047	018_047	X	CCV			01/19/08 05:15	1.0	10	
048	018_048	X	PEM			01/19/08 05:37	1.0	1	
049	018_049	SAMPLE	200596-009	Soil	133876	01/19/08 05:59	10.0		
050	018_050	SAMPLE	200596-010	Soil	133876	01/19/08 06:21	10.0		
051	018_051	SAMPLE	200596-011	Soil	133876	01/19/08 06:44	10.0		
052	018_052	SAMPLE	200603-002	Soil	133882	01/19/08 07:06	10.0		
053	018_053	SAMPLE	200603-003	Soil	133882	01/19/08 07:28	5.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 808026566

Instrument : GC23
Method : EPA 8081A

Begun : 01/18/08 10:46
SOP Version : 8081_rv7

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
054	018_054	PEM	PEM			01/19/08 07:50	1.0	1	
055	018_055	X,CCV	PEST_3			01/19/08 08:12	1.0	2	
056	018_056	CCV	CCV			01/19/08 08:34	1.0	2	
057	018_057	X	PEM			01/19/08 08:56	1.0	1	
058	018_058	SAMPLE	200583-001	Soil	133882	01/19/08 09:18	25.0		1:ENDRINKET=150
059	018_059	SAMPLE	200583-002	Soil	133882	01/19/08 09:40	25.0		
060	018_060	SAMPLE	200583-003	Soil	133882	01/19/08 10:02	10.0		
061	018_061	SAMPLE	200583-004	Soil	133882	01/19/08 10:25	5.0		
062	018_062	SAMPLE	200583-005	Soil	133882	01/19/08 10:47	10.0		
063	018_063	PEM	PEM			01/19/08 11:09	1.0	1	
064	018_064	CCV	PEST_2			01/19/08 11:31	1.0	4	
065	018_065	X	CCV			01/19/08 11:53	1.0	4	
066	018_066	X	PEM			01/19/08 12:15	1.0	1	

Standards used: 1=S7761 2=S7905 3=S7396 4=S7397 5=S7399 6=S7400 7=S7401 8=S7402 9=S8107 10=S7499

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 808030603

Instrument : GC23
Method : EPA 8081A

Begun : 01/21/08 06:03
SOP Version : 8081_rv7

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	021_001	X	PRIMER			01/21/08 06:03	1.0		
002	021_002	X	PRIMER			01/21/08 06:25	1.0		
003	021_003	X	PRIMER			01/21/08 06:47	1.0		
004	021_004	X	PRIMER			01/21/08 07:09	1.0		
005	021_005	X	PRIMER			01/21/08 07:31	1.0		
006	021_006	X	HEX			01/21/08 07:53	1.0		
007	021_007	X	HEX			01/21/08 08:15	1.0		
008	021_008	X	HEX			01/21/08 08:37	1.0		
009	021_009	X	PEM			01/21/08 08:59	1.0	1	
010	021_010	X	PEST_3			01/21/08 09:21	1.0	2	
011	021_011	X	CCV			01/21/08 09:43	1.0	2	
012	021_012	PEM	PEM			01/21/08 10:48	1.0	1	
013	021_013	X	PEST_3			01/21/08 11:39	1.0	2	
014	021_014	X	HEX			01/21/08 13:04	1.0		
015	021_015	X	PEST_3			01/21/08 13:23	1.0	2	
016	021_016	CCV	PEST_3			01/21/08 13:52	1.0	2	
017	021_017	BLANK	QC424683	Soil	133918	01/21/08 14:59	1.0		
018	021_018	LCS	QC424684	Soil	133918	01/21/08 15:21	1.0		
019	021_019	MSS	200607-001	Soil	133918	01/21/08 15:43	10.0		
020	021_020	SAMPLE	200607-002	Soil	133918	01/21/08 16:05	25.0		
021	021_021	SAMPLE	200607-003	Soil	133918	01/21/08 16:27	10.0		
022	021_022	SAMPLE	200607-004	Soil	133918	01/21/08 16:49	25.0		
023	021_023	SAMPLE	200607-005	Soil	133918	01/21/08 17:11	1.0		
024	021_024	SAMPLE	200607-006	Soil	133918	01/21/08 17:33	10.0		
025	021_025	PEM	PEM			01/21/08 18:02	1.0	1	
026	021_026	X	PEST_4			01/21/08 18:24	1.0	3	
027	021_027	CCV	PEST_4			01/21/08 19:30	1.0	4	
028	021_028	CCV	TOXAPHENE			01/21/08 19:52	1.0	5	
029	021_029	X	CCV			01/21/08 20:14	1.0	5	
030	021_030	BLANK	QC424306	Soil	133834	01/21/08 20:36	1.0		
031	021_031	LCS	QC424307	Soil	133834	01/21/08 20:58	1.0		
032	021_032	SAMPLE	200616-001	Soil	133918	01/21/08 21:20	1.0		
033	021_033	SAMPLE	200616-002	Soil	133918	01/21/08 21:42	1.0		2:ACHLORDANE=270
034	021_034	SAMPLE	200616-003	Soil	133918	01/21/08 22:04	1.0		
035	021_035	SAMPLE	200583-001	Soil	133882	01/21/08 22:26	40.0		
036	021_036	MS	QC423928	Soil	133748	01/21/08 22:49	1.0		
037	021_037	MSD	QC423929	Soil	133748	01/21/08 23:11	1.0		
038	021_038	PEM	PEM			01/21/08 23:33	1.0	1	
039	021_039	CCV	PEST_3			01/21/08 23:55	1.0	2	
040	021_040	X	CCV			01/22/08 00:17	1.0	2	
041	021_041	CCV	TOXAPHENE			01/22/08 00:39	1.0	5	
042	021_042	X	CCV			01/22/08 01:01	1.0	5	
043	021_043	X	PEM			01/22/08 01:23	1.0	1	
044	021_044	SAMPLE	200566-001	Soil	133834	01/22/08 01:45	1.0		
045	021_045	SAMPLE	200566-002	Soil	133834	01/22/08 02:08	1.0		
046	021_046	MSS	200566-012	Soil	133834	01/22/08 02:30	1.0		
047	021_047	MS	QC424308	Soil	133834	01/22/08 02:52	1.0		
048	021_048	MSD	QC424309	Soil	133834	01/22/08 03:14	1.0		
049	021_049	SAMPLE	200566-003	Soil	133834	01/22/08 03:36	1.0		
050	021_050	SAMPLE	200566-005	Soil	133834	01/22/08 03:58	1.0		
051	021_051	MSS	200566-006	Soil	133834	01/22/08 04:20	1.0		
052	021_052	SAMPLE	200566-008	Soil	133834	01/22/08 04:42	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 808030603

Instrument : GC23
Method : EPA 8081A

Begun : 01/21/08 06:03
SOP Version : 8081_rv7

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	021_053	PEM	PEM			01/22/08 05:04	1.0	1	
054	021_054	CCV	PEST_4			01/22/08 05:26	1.0	3	
055	021_055	X	CCV			01/22/08 05:48	1.0	6	
056	021_056	X	PEM			01/22/08 06:10	1.0	1	
057	021_057	SAMPLE	200566-009	Soil	133834	01/22/08 06:33	1.0		1:DDD44=260
058	021_058	SAMPLE	200566-010	Soil	133834	01/22/08 06:55	1.0		2:DDD44=340
059	021_059	SAMPLE	200566-011	Soil	133834	01/22/08 07:17	1.0		2:DDD44=270
061	021_061	SAMPLE	200592-002	Soil	133882	01/22/08 08:01	10.0		
062	021_062	SAMPLE	200592-003	Soil	133882	01/22/08 08:23	3.0		
063	021_063	SAMPLE	200592-004	Soil	133882	01/22/08 08:45	5.0		1:HEPT-EPOX=160
064	021_064	SAMPLE	200592-005	Soil	133918	01/22/08 09:07	5.0		
065	021_065	SAMPLE	200592-006	Soil	133918	01/22/08 09:30	5.0		
066	021_066	PEM	PEM			01/22/08 09:52	1.0	1	
067	021_067	X	PEST_2			01/22/08 10:14	1.0	7	
068	021_068	CCV	PEST_2			01/22/08 10:38	1.0	8	

Standards used: 1=S7761 2=S7905 3=S7399 4=S8219 5=S7453 6=S7699 7=S7397 8=S8218

0090

SAMPLE PREPARATION SUMMARY

Batch # : 133748
Started By : ECB
Method : 3550B
Spike #1 ID : S7986

Prep Date : 15-JAN-2008
SOP Version : 8081_3550_rv10
Spike #2 ID : S7951

Analysis : 8081
Finished By : ECB
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
200520-005		Soil	30.19	20	1	0.6625		.04			3620B	8081	
200522-001		Soil	30.06	20	1	0.6653		.04			3620B	8081	
QC423926	BLANK	Soil	30.07	20	1	0.6651		.04			3620B	8081	See comment 1 below
QC423927	LCS	Soil	30.22	20	1	0.6618		.04	.05		3620B	8081	
QC423928	MS	Soil	30.1	20	1	0.6645		.04	.05		3620B	8081	
QC423929	MSD	Soil	30.03	20	1	0.666		.04	.05		3620B	8081	

Comment 1: mss(possible glove contamination)

ADM 01/22/08 : EPA method 2660B (sulfur cleanup) applied to all samples and QC in batch 133748.

Analyst: ADM Date: 01/22/08 Reviewer: EAH Date: 01/22/08

8081 Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2586 Page 59

LIMS Batch No: 133748

Date Extracted: 1/15/08

Extraction Method:

- ☒ EPA 3550b Sonication
- ☐ EPA 3545 PFE (Mth#_____)
- ☐ _____

Cleanup Method:

- ☐ EPA 3640a GPC
- ☒ EPA 3620b Florisil
- ☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
200520-005	30.19	20.00	✓	
200522-001	30.06			MSS, POS, GLOVE CONT.
MB QC 1239276	30.07			
LCS QC 1239277	30.22			
MS QC 1239278	30.10			
MSD QC 1239279	30.03	↓	↓	

GLB 1/15/08

	Mfg & Lot # / LIMS # / Time	Initials / Date
Solvent-rinsed granular Na_2SO_4 weighed out for QC samples	EM4728174B	GLB 1/15/08
dried with CH_2Cl_2-rinsed ☒ granular Na_2SO_4 ☐ diatomaceous earth	EM4728174B	
0.04 mL of surrogate solution was added to all samples	S7986A	
0.05 mL of spike solution was added to all spikes	S7951E	
1:1 CH_2Cl_2 (lot# EM 47312):Acetone(lot# EM 47142) was added to all	✓	
☒ sonicated 3 times w/ ≥100mL ☐ PFE extracted	✓	
ASE Cellulose Filters used:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM4707534	
Exchanged 2x with Hexane	JTB E45E02	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up: ☐ GPC (see GPC run log) ☒ Florisil	✓ SP4706	
Extracts relinquished to Pesticide Group	✓	

1/15/08

Extraction Chemist / Date

Continued from page ___

Continued on page ___

1/15/08

Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: ELB

Cleanup Date: 1/15/08

Benchbook # **BK 2625**

Page 34

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
200520-005	133748	1.0	1.0	
200522-001				MSS
MB QC423926				
LCS 7				
MS 8				
MSD 9				

ELB 1/15/08

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	SP4706	ELB 1/15
Florisil cartridges/ columns rinsed 3x with Hexane	JTBE45E02	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	JTBE45E02	
Acetone	EM47190	
Concentrated to volumes as noted above	✓	

ELB 1/15/08

Extraction Chemist / Date

Continued from page —

Continued on page —

1/15/08

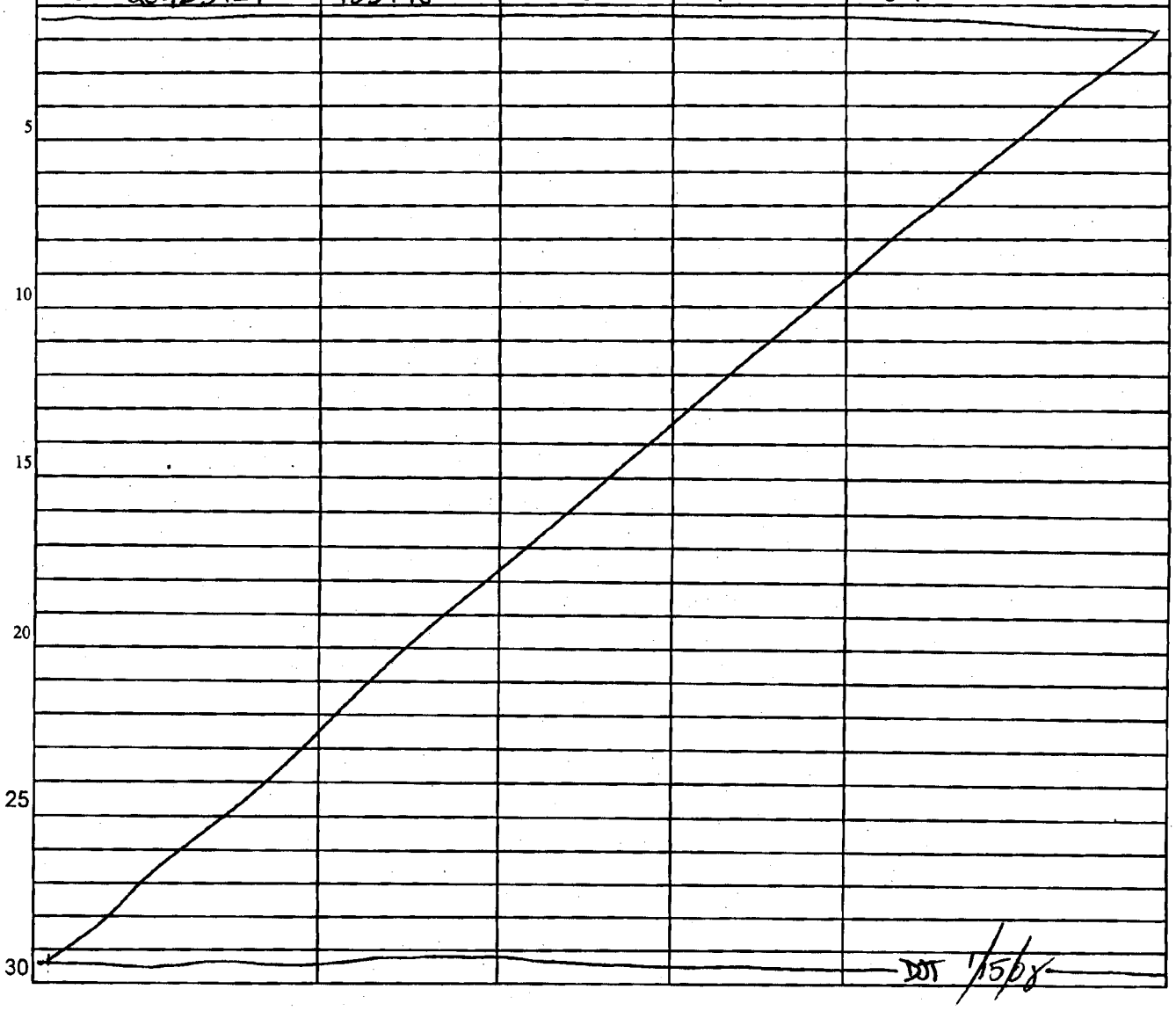
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: DJT
Cleanup Date: 1/15/08

Benchbook # **BK 2625**
Page 35

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
LCS QC423927	133748	1.0	1.0	RE-FLOR



	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	SP 4025	DJT 1/15/08
Florisil cartridges/ columns rinsed 3x with Hexane	JTBE45E02	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	↓	
Acetone	EM47140	
Concentrated to volumes as noted above	✓	

1/15/08
Extraction Chemist / Date

Continued from page —
Continued on page —

1/15/08
Reviewed by / Date

Project SOIL ALIQUOT

BK 26276 51

Continued from Page -

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
		~~TE~~		EDT MFC 1/14/08
200510-039	50.31	TEH		COMP 028-031 @ 2.5g each
200520-005	50.35			MSS COMP 001A-004A @ 10.0g each
MB	50.35			EM47158737
LCS	50.06			↓
MS	50.20			200520-005
MSD	50.02			↓
				MFC 1/14/08
200501-001D	50.38	TEH		
002A	~~5~~ MFC 1/14/08 49.97			
003A	50.27			
004A	50.33			
005A	50.28			
006E	50.37			
007D	50.06			
020D	50.29			
				MFC 1/14/08
200495-025A	30.19	8270-SIM		MSS
MB	30.19			EM47281748
LCS	30.02			↓
MS	30.01			200495-025A
MSD	30.43			↓
			KML 1/15/08 133748	
200522-001A	30.06	8081		MSS
MB	30.07			EM47281748
LCS	30.22			↓
MS	30.10			200522-001A
MSD	30.03			↓
			408 1/15/08	
200520-005	30.19	8081		COMP -001A, 002A, 003A, 004A @ 10g. each
				ECB 1/15/08

Continued on Page

Read and Understood By

Signed Date Signed Date

REPORTING SUMMARY FOR 200520 PEST Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
200520-005	alpha-BHC	GC23	A	01/15/08 20:14
200520-005	beta-BHC	GC23	A	01/15/08 20:14
200520-005	gamma-BHC	GC23	A	01/15/08 20:14
200520-005	delta-BHC	GC23	A	01/15/08 20:14
200520-005	Heptachlor	GC23	A	01/15/08 20:14
200520-005	Aldrin	GC23	A	01/15/08 20:14
200520-005	Heptachlor epoxide	GC23	A	01/15/08 20:14
200520-005	Endosulfan I	GC23	A	01/15/08 20:14
200520-005	Dieldrin	GC23	A	01/15/08 20:14
200520-005	4,4'-DDE	GC23	A	01/15/08 20:14
200520-005	Endrin	GC23	A	01/15/08 20:14
200520-005	Endosulfan II	GC23	A	01/15/08 20:14
200520-005	Endosulfan sulfate	GC23	A	01/15/08 20:14
200520-005	4,4'-DDD	GC23	A	01/15/08 20:14
200520-005	Endrin ketone	GC23	A	01/15/08 20:14
200520-005	Endrin aldehyde	GC23	A	01/15/08 20:14
200520-005	4,4'-DDT	GC23	A	01/15/08 20:14
200520-005	gamma-Chlordane	GC23	A	01/15/08 20:14
200520-005	alpha-Chlordane	GC23	A	01/15/08 20:14
200520-005	Methoxychlor	GC23	A	01/15/08 20:14
200520-005	Toxaphene	GC23	A	01/15/08 20:14
200520-005	TCMX	GC23	A	01/15/08 20:14
200520-005	Decachlorobiphenyl	GC23	A	01/15/08 20:14
QC423926	alpha-BHC	GC23	A	01/15/08 18:08
QC423926	beta-BHC	GC23	A	01/15/08 18:08
QC423926	gamma-BHC	GC23	A	01/15/08 18:08
QC423926	delta-BHC	GC23	A	01/15/08 18:08
QC423926	Heptachlor	GC23	A	01/15/08 18:08
QC423926	Aldrin	GC23	A	01/15/08 18:08
QC423926	Heptachlor epoxide	GC23	A	01/15/08 18:08
QC423926	Endosulfan I	GC23	A	01/15/08 18:08
QC423926	Dieldrin	GC23	A	01/15/08 18:08
QC423926	4,4'-DDE	GC23	A	01/15/08 18:08
QC423926	Endrin	GC23	A	01/15/08 18:08
QC423926	Endosulfan II	GC23	A	01/15/08 18:08
QC423926	Endosulfan sulfate	GC23	A	01/15/08 18:08
QC423926	4,4'-DDD	GC23	A	01/15/08 18:08
QC423926	Endrin ketone	GC23	A	01/15/08 18:08
QC423926	Endrin aldehyde	GC23	A	01/15/08 18:08
QC423926	4,4'-DDT	GC23	A	01/15/08 18:08
QC423926	gamma-Chlordane	GC23	A	01/15/08 18:08
QC423926	alpha-Chlordane	GC23	A	01/15/08 18:08
QC423926	Methoxychlor	GC23	A	01/15/08 18:08
QC423926	Toxaphene	GC23	A	01/15/08 18:08
QC423926	TCMX	GC23	A	01/15/08 18:08
QC423926	Decachlorobiphenyl	GC23	A	01/15/08 18:08
QC423927	gamma-BHC	GC23	A	01/15/08 19:52
QC423927	Heptachlor	GC23	A	01/15/08 19:52
QC423927	Aldrin	GC23	A	01/15/08 19:52
QC423927	Dieldrin	GC23	A	01/15/08 19:52
QC423927	Endrin	GC23	A	01/15/08 19:52
QC423927	4,4'-DDT	GC23	A	01/15/08 19:52

REPORTING SUMMARY FOR 200520 PEST Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC423927	TCMX	GC23	A	01/15/08 19:52
QC423927	Decachlorobiphenyl	GC23	A	01/15/08 19:52
QC423928	gamma-BHC	GC23	A	01/21/08 22:49
QC423928	Heptachlor	GC23	A	01/21/08 22:49
QC423928	Aldrin	GC23	A	01/21/08 22:49
QC423928	Dieldrin	GC23	A	01/21/08 22:49
QC423928	Endrin	GC23	A	01/21/08 22:49
QC423928	4,4'-DDT	GC23	A	01/21/08 22:49
QC423928	TCMX	GC23	A	01/21/08 22:49
QC423928	Decachlorobiphenyl	GC23	A	01/21/08 22:49
QC423929	gamma-BHC	GC23	A	01/21/08 23:11
QC423929	Heptachlor	GC23	A	01/21/08 23:11
QC423929	Aldrin	GC23	A	01/21/08 23:11
QC423929	Dieldrin	GC23	A	01/21/08 23:11
QC423929	Endrin	GC23	A	01/21/08 23:11
QC423929	4,4'-DDT	GC23	A	01/21/08 23:11
QC423929	TCMX	GC23	A	01/21/08 23:11
QC423929	Decachlorobiphenyl	GC23	A	01/21/08 23:11

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	200520	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065BC402 A-D COMP	Diln Fac:	1.000
Lab ID:	200520-005	Sampled:	01/11/08
Matrix:	Soil	Received:	01/14/08
Units:	mg/Kg	Prepared:	01/15/08
Basis:	dry		

Moisture: 3%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.74	0.52	0.086	133790	01/16/08	EPA 3050B	EPA 6010B
Arsenic	ND	0.29	0.095	133790	01/16/08	EPA 3050B	EPA 6010B
Barium	35	0.26	0.021	133790	01/16/08	EPA 3050B	EPA 6010B
Beryllium	0.055 J	0.10	0.0024	133790	01/16/08	EPA 3050B	EPA 6010B
Cadmium	ND	0.26	0.024	133790	01/16/08	EPA 3050B	EPA 6010B
Chromium	2.6	0.26	0.029	133790	01/16/08	EPA 3050B	EPA 6010B
Cobalt	5.5	0.26	0.021	133790	01/16/08	EPA 3050B	EPA 6010B
Copper	37	0.29	0.095	133790	01/16/08	EPA 3050B	EPA 6010B
Lead	ND	0.18	0.061	133790	01/16/08	EPA 3050B	EPA 6010B
Mercury	0.016 J	0.021	0.0042	133770	01/15/08	METHOD	EPA 7471A
Molybdenum	ND	0.26	0.050	133790	01/16/08	EPA 3050B	EPA 6010B
Nickel	1.1	0.26	0.024	133790	01/16/08	EPA 3050B	EPA 6010B
Selenium	ND	0.52	0.047	133790	01/16/08	EPA 3050B	EPA 6010B
Silver	ND	0.26	0.057	133790	01/16/08	EPA 3050B	EPA 6010B
Thallium	ND	0.52	0.085	133790	01/16/08	EPA 3050B	EPA 6010B
Vanadium	53	0.26	0.030	133790	01/16/08	EPA 3050B	EPA 6010B
Zinc	21	1.0	0.036	133790	01/16/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

6.1

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC424107	Batch#:	133790
Matrix:	Soil	Prepared:	01/15/08
Units:	mg/Kg	Analyzed:	01/16/08
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	0.12 J	0.50	0.087
Arsenic	ND	0.29	0.096
Barium	ND	0.25	0.022
Beryllium	0.011 J	0.10	0.0024
Cadmium	ND	0.25	0.024
Chromium	0.036 J	0.25	0.029
Cobalt	ND	0.25	0.021
Copper	ND	0.29	0.096
Lead	ND	0.19	0.062
Molybdenum	ND	0.25	0.051
Nickel	0.027 J	0.25	0.024
Selenium	ND	0.50	0.047
Silver	ND	0.25	0.057
Thallium	ND	0.50	0.086
Vanadium	ND	0.25	0.030
Zinc	ND	1.0	0.036

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

8.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC424010	Batch#:	133770
Matrix:	Soil	Prepared:	01/15/08
Units:	mg/Kg	Analyzed:	01/15/08

Result	RL	MDL
ND	0.020	0.0047

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	133790
Units:	mg/Kg	Prepared:	01/15/08
Basis:	as received	Analyzed:	01/16/08
Diln Fac:	1.000		

Type: BS Lab ID: QC424108

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.16	95	75-125
Arsenic	50.00	49.94	100	75-125
Barium	100.0	94.80	95	75-125
Beryllium	2.500	2.484	99	75-125
Cadmium	10.00	8.884	89	75-125
Chromium	100.0	92.71	93	75-125
Cobalt	25.00	23.27	93	75-125
Copper	12.50	12.17	97	75-125
Lead	100.0	91.16	91	75-125
Molybdenum	20.00	19.62	98	75-125
Nickel	25.00	22.77	91	75-125
Selenium	50.00	47.34	95	75-125
Silver	10.00	8.682	87	75-125
Thallium	50.00	46.60	93	75-125
Vanadium	25.00	23.08	92	75-125
Zinc	25.00	23.13	93	75-125

Type: BSD Lab ID: QC424109

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	91.34	91	75-125	4	30
Arsenic	50.00	49.05	98	75-125	2	30
Barium	100.0	93.42	93	75-125	1	30
Beryllium	2.500	2.461	98	75-125	1	30
Cadmium	10.00	8.905	89	75-125	0	30
Chromium	100.0	91.61	92	75-125	1	30
Cobalt	25.00	22.93	92	75-125	1	30
Copper	12.50	11.96	96	75-125	2	30
Lead	100.0	90.30	90	75-125	1	30
Molybdenum	20.00	19.57	98	75-125	0	30
Nickel	25.00	22.55	90	75-125	1	30
Selenium	50.00	46.67	93	75-125	1	30
Silver	10.00	8.536	85	75-125	2	30
Thallium	50.00	46.07	92	75-125	1	30
Vanadium	25.00	22.83	91	75-125	1	30
Zinc	25.00	22.79	91	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	133770
Units:	mg/Kg	Prepared:	01/15/08
Basis:	as received	Analyzed:	01/15/08

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC424011	0.5000	0.5050	101	75-125		
BSD	QC424012	0.5000	0.5200	104	75-125	3	35

RPD= Relative Percent Difference

9.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065BC402 A-D COMP	Batch#:	133790
MSS Lab ID:	200520-005	Sampled:	01/11/08
Matrix:	Soil	Received:	01/14/08
Units:	mg/Kg	Prepared:	01/15/08
Basis:	dry	Analyzed:	01/16/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC424110
Moisture: 3%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.7357	92.88	34.02	36 *	75-125
Arsenic	<0.09515	46.44	46.92	101	75-125
Barium	35.06	92.88	138.7	112	75-125
Beryllium	0.05479	2.322	2.448	103	75-125
Cadmium	<0.02374	9.288	7.901	85	75-125
Chromium	2.633	92.88	88.40	92	75-125
Cobalt	5.480	23.22	27.27	94	75-125
Copper	36.61	11.61	77.88	355 * P	75-125
Lead	<0.06131	92.88	80.47	87	75-125
Molybdenum	<0.05032	18.58	16.92	91	75-125
Nickel	1.089	23.22	21.40	87	75-125
Selenium	<0.04672	46.44	44.74	96	75-125
Silver	<0.05667	9.288	8.805	95	75-125
Thallium	<0.08486	46.44	40.61	87	75-125
Vanadium	52.84	23.22	84.32	136 * P	75-125
Zinc	20.66	23.22	47.00	113	75-125

Type: MSD
Lab ID: QC424111
Moisture: 3%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	98.18	45.15	45 *	75-125	23	30
Arsenic	49.09	48.36	99	75-125	3	30
Barium	98.18	128.1	95	75-125	12	30
Beryllium	2.455	2.515	100	75-125	3	30
Cadmium	9.818	8.169	83	75-125	2	30
Chromium	98.18	90.98	90	75-125	3	30
Cobalt	24.55	28.76	95	75-125	1	30
Copper	12.27	49.36	104 P	75-125	46 *	30
Lead	98.18	83.09	85	75-125	2	30
Molybdenum	19.64	17.79	91	75-125	1	30
Nickel	24.55	21.98	85	75-125	3	30
Selenium	49.09	46.04	94	75-125	3	30
Silver	9.818	9.004	92	75-125	3	30
Thallium	49.09	41.82	85	75-125	3	30
Vanadium	24.55	69.17	67 * P	75-125	21	30
Zinc	24.55	43.71	94	75-125	10	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

13.1

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	133770
MSS Lab ID:	200492-001	Sampled:	01/10/08
Matrix:	Soil	Received:	01/11/08
Units:	mg/Kg	Prepared:	01/15/08
Basis:	dry	Analyzed:	01/15/08

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC424014	0.04698	0.5700	0.6840	112	75-125	14%		
MSD	QC424015		0.5012	0.6085	112	75-125	14%	0	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065BC402 A-D COMP	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	200520-005	Batch#:	133790
Lab ID:	QC424112	Sampled:	01/11/08
Matrix:	Soil	Received:	01/14/08
Units:	mg/Kg	Analyzed:	01/16/08

Moisture: 3%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	0.7357	0.5155	1.259 J	1.296	NC	10
Arsenic	ND	0.2854	ND	1.427	NC	10
Barium	35.06	0.2577	35.48	1.239	1	10
Beryllium	0.05479	0.1031	0.06842 J	0.4956	NC	10
Cadmium	ND	0.2577	ND	1.239	NC	10
Chromium	2.633	0.2577	2.944	1.239	12 *	10
Cobalt	5.480	0.2577	5.738	1.239	5	10
Copper	36.61	0.2856	35.37	1.428	3	10
Lead	ND	0.1839	ND	0.9196	NC	10
Molybdenum	ND	0.2577	0.3256 J	1.239	NC	10
Nickel	1.089	0.2577	1.217 J	1.239	NC	10
Selenium	ND	0.5155	ND	1.239	NC	10
Silver	ND	0.2577	ND	1.239	NC	10
Thallium	ND	0.5155	0.7252 J	1.273	NC	10
Vanadium	52.84	0.2577	52.77	1.239	0	10
Zinc	20.66	1.031	20.20	4.956	2	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	133770
MSS Lab ID:	200492-001	Sampled:	01/10/08
Lab ID:	QC424013	Received:	01/11/08
Matrix:	Soil	Analyzed:	01/15/08
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.04698	0.02326	ND	0.09377	14%	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

10.1

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum : 98022120156
File : 011508r
IDF : 1.0
Lab ID : 200520-005
Matrix : Soil
Batch : 133790
Time : 16-JAN-2008 02:09
Cal : 98022120001
Units : ug/L

Type : PDS
Inst : MET09
Seqnum : 98022120160
File : 011508r
IDF : 1.0
Lab ID : QC424113
Matrix : Soil
Batch : 133790
Time : 16-JAN-2008 02:22
Cal : 98022120001

MSS: 1.04 g --> 50.0 ml = 48.08 ml/g PDF
PDS: 1.04 g --> 50.0 ml = 48.08 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Arsenic	ND	A	1000	1004	A	100	75-125	u **y**
Barium	707.4	A	2000	2627	A	96	75-125	u
Beryllium	1.106	A	50.00	53.24	A	104	75-125	u
Cadmium	ND	A	200.0	176.8	A	88	75-125	u
Chromium	53.13	A	2000	1935	A	94	75-125	u
Cobalt	110.6	A	500.0	562.4	A	90	75-125	u
Copper	738.7	A	250.0	1005	A	106	75-125	u
Lead	ND	A	2000	1791	A	90	75-125	u
Manganese	3253	A	500.0	3671	A	84	75-125	: u
Molybdenum	ND	A	400.0	392.2	A	98	75-125	u
Nickel	21.96	A	500.0	464.2	A	88	75-125	u
Potassium	13580	R	10000	23120	R	95	75-125	u
Selenium	ND	A	1000	965.2	A	97	75-125	u
Silver	ND	A	200.0	181.7	A	91	75-125	u
Sodium	49860	R	20000	69140	R	96	75-125	u
Thallium	ND	A	1000	906.4	A	91	75-125	u
Vanadium	1066	A	500.0	1535	A	94	75-125	u
Zinc	416.9	A	500.0	882.1	A	93	75-125	u
Boron	179.6	A	1000	1225	A	105	75-125	u
Tin	4.643	A	1000	911.6	A	91	75-125	u
Titanium	5596	A	1000	6471	A	88	75-125	: u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3651678	3135398	-14.14

:=recovery not meaningful u=use y=RL raised

98022120160

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : PDS
Inst : MET09
Seqnum : 98023560026
File : 011608r
IDF : 1.0
Lab ID : QC424113
Matrix : Soil
Batch : 133790
Time : 16-JAN-2008 10:33
Cal : 98023560001
MSS : 200520-005
Units : ug/L

PDS: 1.04 g --> 50.0 ml = 48.08 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS Seqnum	Result	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	98023560022	14.84	A	2000	1992	A	99	75-125	u
Arsenic	98022120156	ND	A	1000	1058	A	106	75-125	y
Barium	98022120156	707.4	A	2000	2669	A	98	75-125	
Beryllium	98022120156	1.106	A	50.00	53.73	A	105	75-125	
Cadmium	98022120156	ND	A	200.0	195.0	A	97	75-125	
Chromium	98022120156	53.13	A	2000	1990	A	97	75-125	
Cobalt	98022120156	110.6	A	500.0	575.5	A	93	75-125	
Copper	98022120156	738.7	A	250.0	989.3	A	100	75-125	
Lead	98022120156	ND	A	2000	1878	A	94	75-125	
Manganese	98023560022	3485	A	500.0	3908	A	84	75-125	:
Molybdenum	98022120156	ND	A	400.0	394.6	A	99	75-125	
Nickel	98022120156	21.96	A	500.0	487.7	A	93	75-125	
Potassium	98023560022	14970	R	10000	25280	R	103	75-125	
Selenium	98022120156	ND	A	1000	1024	A	102	75-125	
Silver	98022120156	ND	A	200.0	188.4	A	94	75-125	
Sodium	98023560022	51940	R	20000	71840	R	99	75-125	
Thallium	98022120156	ND	A	1000	924.4	A	92	75-125	
Vanadium	98022120156	1066	A	500.0	1586	A	104	75-125	
Zinc	98022120156	416.9	A	500.0	903.3	A	97	75-125	
Boron	98023560022	186.8	A	1000	1216	A	103	75-125	u
Tin	98023560022	6.733	A	1000	970.8	A	96	75-125	u
Titanium	98023560022	5812	A	1000	6721	A	91	75-125	: u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3716712	3125509	-15.91

:=recovery not meaningful u=use y=RL raised

98023560026

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 200520 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
200520-005	MET04	01/15/08 15:54	1.0										+							
200520-005	MET09	01/16/08 02:09	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
200520-005	MET09	01/16/08 10:21	1.0	+																
200520-005	MET09	01/16/08 10:42	10.0																	
QC424010	MET04	01/15/08 14:58	1.0										+							
QC424011	MET04	01/15/08 15:01	1.0										+							
QC424012	MET04	01/15/08 15:03	1.0										+							
QC424013	MET04	01/15/08 15:08	5.0										+							
QC424014	MET04	01/15/08 15:11	1.0										+							
QC424015	MET04	01/15/08 15:13	1.0										+							
QC424107	MET09	01/16/08 01:49	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC424107	MET09	01/16/08 10:02	1.0	+																
QC424108	MET09	01/16/08 01:54	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC424108	MET09	01/16/08 10:07	1.0	+																
QC424109	MET09	01/16/08 02:07	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC424109	MET09	01/16/08 10:19	1.0	+																
QC424110	MET09	01/16/08 02:13	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC424110	MET09	01/16/08 10:25	1.0	+																
QC424110	MET09	01/16/08 11:43	10.0																	
QC424111	MET09	01/16/08 02:16	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC424111	MET09	01/16/08 10:27	1.0	+																
QC424111	MET09	01/16/08 11:47	10.0																	
QC424112	MET09	01/16/08 02:18	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC424112	MET09	01/16/08 10:30	5.0	+																
QC424112	MET09	01/16/08 10:46	50.0																	
QC424113	MET09	01/16/08 02:22	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC424113	MET09	01/16/08 10:33	1.0	+																
QC424113	MET09	01/16/08 11:00	10.0																	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98022120 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 15-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	011508r	ICALBLK				15-JAN-2008 08:40	1.0	1.0				
002	011508r	ICAL	CRIM08			15-JAN-2008 08:44	1.0	1.0			1	
003	011508r	ICAL	CS100			15-JAN-2008 08:49	1.0	1.0			2	
004	011508r	ICAL	CS1K			15-JAN-2008 08:52	1.0	1.0			3	
005	011508r	ICAL	CS10K			15-JAN-2008 08:56	1.0	1.0			4	
006	011508r	ICAL	CS100K			15-JAN-2008 09:01	1.0	1.0			5	
007	011508r	ICV				15-JAN-2008 09:05	1.0	1.0		5000	6	
008	011508r	ICB				15-JAN-2008 09:10	1.0	1.0		5000		
009	011508r	ICSA				15-JAN-2008 09:14	1.0	1.0		5000	7	10:AL=482624
010	011508r	ICSAB				15-JAN-2008 09:18	1.0	1.0		5000	8	5:MG=488783
011	011508r	SAMPLE	200510-037	133734	Soil	15-JAN-2008 09:23	1.0	48.08		5000		3:FE=328848
012	011508r	SAMPLE	200510-038	133734	Soil	15-JAN-2008 09:26	100.0	48.54		5000		
013	011508r	SAMPLE	200510-039	133734	Soil	15-JAN-2008 09:30	1.0	44.64		5000		4:FE=358115
014	011508r	SAMPLE	200492-011	133733	Soil	15-JAN-2008 09:33	1.0	46.73		5000		3:FE=264875
015	011508r	ICSAB				15-JAN-2008 09:36	1.0	1.0		5000	8	5:AL=495931
016	011508r	CCV				15-JAN-2008 09:41	1.0	1.0		5000	9	
017	011508r	CCB				15-JAN-2008 09:46	1.0	1.0		5000		
018	011508r	BLANK	QC423960	133757	TCLP L	15-JAN-2008 11:16	10.0	1.0	2	5000		1:NA=163969
019	011508r	BS	QC423961	133757	TCLP L	15-JAN-2008 11:20	1.0	1.0		5000		
020	011508r	BSD	QC423962	133757	TCLP L	15-JAN-2008 11:23	1.0	1.0		5000		
021	011508r	MSS	200455-001	133757	TCLP L	15-JAN-2008 11:26	10.0	1.0	1	5000		1:NA=149270
022	011508r	MS	QC423963	133757	TCLP L	15-JAN-2008 11:30	10.0	1.0		5000		1:NA=149752
023	011508r	MSD	QC423964	133757	TCLP L	15-JAN-2008 11:34	10.0	1.0		5000		1:NA=166245
024	011508r	SER	QC423965	133757	TCLP L	15-JAN-2008 11:37	50.0	1.0	1	5000		
025	011508r	PDS	QC423966	133757	TCLP L	15-JAN-2008 11:42	10.0	1.0		5000	10 11	1:NA=168218
026	011508r	SAMPLE	200433-001	133757	TCLP L	15-JAN-2008 11:45	10.0	1.0		5000		1:NA=144632
027	011508r	SAMPLE	200463-001	133720	WET Le	15-JAN-2008 11:49	10.0	5.0		5000		1:NA=209273
028	011508r	CCV				15-JAN-2008 11:54	1.0	1.0		5000	9	
029	011508r	CCB				15-JAN-2008 11:58	1.0	1.0		5000		
030	011508r	SAMPLE	200433-001	133720	WET Le	15-JAN-2008 12:03	10.0	5.0		5000		1:NA=185689
031	011508r	MSS	199928-006	133720	WET Le	15-JAN-2008 12:07	10.0	5.0	1	5000		1:NA=180211

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98022120 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 15-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	011508r	ICSAB				15-JAN-2008 12:12	1.0	1.0		5000	8	5:AL=491634
033	011508r	CCV				15-JAN-2008 12:17	1.0	1.0		5000	9	
034	011508r	CCB				15-JAN-2008 12:21	1.0	1.0		5000		
035	011508r	SER	QC423987	133720	WET Le	15-JAN-2008 12:44	50.0	5.0	1	5000		
036	011508r	PDS	QC423988	133720	WET Le	15-JAN-2008 12:49	10.0	5.0		5000	10 11	1:NA=201631
037	011508r	ICSAB				15-JAN-2008 12:51	1.0	1.0		5000	8	5:AL=499709
038	011508r	CCV				15-JAN-2008 12:56	1.0	1.0		5000	9	
039	011508r	CCB				15-JAN-2008 13:00	1.0	1.0		5000		
040	011508r	BLANK	QC423982	133762	Water	15-JAN-2008 15:47	1.0	1.0		5000		
041	011508r	BS	QC423983	133762	Water	15-JAN-2008 15:52	1.0	1.0		5000		
042	011508r	BSD	QC423984	133762	Water	15-JAN-2008 15:55	1.0	1.0		5000		
043	011508r	MSS	200524-001	133762	Water	15-JAN-2008 15:59	1.0	1.0	1	5000		1:NA=146765
044	011508r	MS	QC423985	133762	Water	15-JAN-2008 16:04	1.0	1.0		5000		1:NA=166230
045	011508r	MSD	QC423986	133762	Water	15-JAN-2008 16:07	1.0	1.0		5000		1:NA=160583
046	011508r	MSS	200524-001	133762	Water	15-JAN-2008 16:11	10.0	1.0		5000		
047	011508r	SAMPLE	200524-002	133762	Water	15-JAN-2008 16:16	1.0	1.0		5000		
048	011508r	SAMPLE	200524-003	133762	Water	15-JAN-2008 16:20	1.0	1.0	3	5000		3:NA=354422
049	011508r	CCV				15-JAN-2008 16:30	1.0	1.0		5000	9	
050	011508r	CCB				15-JAN-2008 16:35	1.0	1.0		5000		
051	011508r	SAMPLE	200358-001	133762	Water	15-JAN-2008 16:39	1.0	1.0		5000		
052	011508r	SAMPLE	200358-002	133762	Water	15-JAN-2008 16:44	1.0	1.0		5000		
053	011508r	SAMPLE	200358-003	133762	Water	15-JAN-2008 16:48	1.0	1.0		5000		
054	011508r	SAMPLE	200393-001	133762	Water	15-JAN-2008 16:53	1.0	1.0		5000		
055	011508r	SAMPLE	200524-003	133762	Water	15-JAN-2008 16:57	10.0	1.0		5000		2:NA=222491
056	011508r	SAMPLE	200405-001	133762	Water	15-JAN-2008 17:02	1.0	1.0		5000		
057	011508r	SAMPLE	200405-002	133762	Water	15-JAN-2008 17:06	1.0	1.0		5000		
058	011508r	SAMPLE	200411-001	133762	Water	15-JAN-2008 17:11	1.0	1.0		5000		
059	011508r	SAMPLE	200411-002	133762	Water	15-JAN-2008 17:15	1.0	1.0		5000		1:CA=326413
060	011508r	SAMPLE	200462-002	133762	Water	15-JAN-2008 17:20	1.0	1.0		5000		1:CA=320114
061	011508r	X				15-JAN-2008 17:30	1.0				9	
062	011508r	CCV				15-JAN-2008 17:31	1.0	1.0		5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98022120 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 15-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	011508r	CCB				15-JAN-2008 17:36	1.0	1.0		5000		
064	011508r	SAMPLE	200497-001	133762	Water	15-JAN-2008 17:40	1.0	1.0	1	5000	3:MG=788540	
065	011508r	SAMPLE	200512-001	133762	Water	15-JAN-2008 17:47	1.0	1.0	1	5000	3:MG=514417	
066	011508r	SAMPLE	200512-001	133762	Water	15-JAN-2008 17:54	1.0	1.0		5000	3:MG=526473	
067	011508r	SAMPLE	200497-001	133762	Water	15-JAN-2008 18:00	1.0	1.0		5000	3:MG=801854	
068	011508r	ICSAB				15-JAN-2008 18:11	1.0	1.0		5000	8 5:AL=538925	
069	011508r	X				15-JAN-2008 18:16	1.0	1.0	1	5000	9	
070	011508r	CCV				15-JAN-2008 18:17	1.0	1.0		5000	9	
071	011508r	CCB				15-JAN-2008 18:21	1.0	1.0		5000		
072	011508r	BLANK	QC423992	133764	Water	15-JAN-2008 18:29	1.0	1.0		5000		
073	011508r	BS	QC423993	133764	Water	15-JAN-2008 18:34	1.0	1.0		5000		
074	011508r	BSD	QC423994	133764	Water	15-JAN-2008 18:37	1.0	1.0		5000		
075	011508r	MSS	200517-008	133764	Water	15-JAN-2008 18:41	1.0	1.0	2	5000	2:NA=419116	
076	011508r	MS	QC423995	133764	Water	15-JAN-2008 18:45	1.0	1.0	3	5000	2:NA=392775	
077	011508r	MSD	QC423996	133764	Water	15-JAN-2008 18:48	1.0	1.0	1	5000	2:NA=455471	
078	011508r	SAMPLE	200517-010	133764	Water	15-JAN-2008 18:52	1.0	1.0		5000	1:CA=208453	
079	011508r	SAMPLE	200517-016	133764	Water	15-JAN-2008 18:57	1.0	1.0		5000	2:NA=146226	
080	011508r	X				15-JAN-2008 19:10	1.0	1.0		5000	9	
081	011508r	CCV				15-JAN-2008 19:12	1.0	1.0		5000	9	
082	011508r	CCB				15-JAN-2008 19:17	1.0	1.0		5000		
083	011508r	SAMPLE	200499-001	133764	Water	15-JAN-2008 19:22	1.0	1.0		5000	1:K=139932	
084	011508r	ICSAB				15-JAN-2008 19:35	1.0	1.0		5000	8 5:AL=504767	
085	011508r	CCV				15-JAN-2008 19:39	1.0	1.0		5000	9	
086	011508r	CCB				15-JAN-2008 19:44	1.0	1.0		5000		
087	011508r	BLANK	QC424001	133769	WET Le	15-JAN-2008 19:56	10.0	5.0	1	5000	1:NA=183721	
088	011508r	BS	QC424002	133769	WET Le	15-JAN-2008 20:00	1.0	1.0		5000		
089	011508r	BSD	QC424003	133769	WET Le	15-JAN-2008 20:03	1.0	1.0		5000		
090	011508r	MSS	200455-001	133769	WET Le	15-JAN-2008 20:06	10.0	5.0	1	5000	1:NA=184477	
091	011508r	MS	QC424004	133769	WET Le	15-JAN-2008 20:10	10.0	5.0		5000	1:NA=193890	
092	011508r	MSD	QC424005	133769	WET Le	15-JAN-2008 20:14	10.0	5.0	1	5000	1:NA=203996	
093	011508r	SER	QC424006	133769	WET Le	15-JAN-2008 20:17	50.0	5.0	1	5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98022120 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 15-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	011508r	ICALBLK				15-JAN-2008 08:40	1.0	1.0				
002	011508r	ICAL	CRIM08			15-JAN-2008 08:44	1.0	1.0			1	
003	011508r	ICAL	CS100			15-JAN-2008 08:49	1.0	1.0			2	
004	011508r	ICAL	CS1K			15-JAN-2008 08:52	1.0	1.0			3	
005	011508r	ICAL	CS10K			15-JAN-2008 08:56	1.0	1.0			4	
006	011508r	ICAL	CS100K			15-JAN-2008 09:01	1.0	1.0			5	
007	011508r	ICV				15-JAN-2008 09:05	1.0	1.0		5000	6	
008	011508r	ICB				15-JAN-2008 09:10	1.0	1.0		5000		
009	011508r	ICSA				15-JAN-2008 09:14	1.0	1.0		5000	7	10:AL=482624
010	011508r	ICSAB				15-JAN-2008 09:18	1.0	1.0		5000	8	5:MG=488783
011	011508r	SAMPLE	200510-037	133734	Soil	15-JAN-2008 09:23	1.0	48.08		5000		3:FE=328848
012	011508r	SAMPLE	200510-038	133734	Soil	15-JAN-2008 09:26	100.0	48.54		5000		
013	011508r	SAMPLE	200510-039	133734	Soil	15-JAN-2008 09:30	1.0	44.64		5000		4:FE=358115
014	011508r	SAMPLE	200492-011	133733	Soil	15-JAN-2008 09:33	1.0	46.73		5000		3:FE=264875
015	011508r	ICSAB				15-JAN-2008 09:36	1.0	1.0		5000	8	5:AL=495931
016	011508r	CCV				15-JAN-2008 09:41	1.0	1.0		5000	9	
017	011508r	CCB				15-JAN-2008 09:46	1.0	1.0		5000		
018	011508r	BLANK	QC423960	133757	TCLP L	15-JAN-2008 11:16	10.0	1.0	2	5000		1:NA=163969
019	011508r	BS	QC423961	133757	TCLP L	15-JAN-2008 11:20	1.0	1.0		5000		
020	011508r	BSD	QC423962	133757	TCLP L	15-JAN-2008 11:23	1.0	1.0		5000		
021	011508r	MSS	200455-001	133757	TCLP L	15-JAN-2008 11:26	10.0	1.0	1	5000		1:NA=149270
022	011508r	MS	QC423963	133757	TCLP L	15-JAN-2008 11:30	10.0	1.0		5000		1:NA=149752
023	011508r	MSD	QC423964	133757	TCLP L	15-JAN-2008 11:34	10.0	1.0		5000		1:NA=166245
024	011508r	SER	QC423965	133757	TCLP L	15-JAN-2008 11:37	50.0	1.0	1	5000		
025	011508r	PDS	QC423966	133757	TCLP L	15-JAN-2008 11:42	10.0	1.0		5000	10 11	1:NA=168218
026	011508r	SAMPLE	200433-001	133757	TCLP L	15-JAN-2008 11:45	10.0	1.0		5000		1:NA=144632
027	011508r	SAMPLE	200463-001	133720	WET Le	15-JAN-2008 11:49	10.0	5.0		5000		1:NA=209273
028	011508r	CCV				15-JAN-2008 11:54	1.0	1.0		5000	9	
029	011508r	CCB				15-JAN-2008 11:58	1.0	1.0		5000		
030	011508r	SAMPLE	200433-001	133720	WET Le	15-JAN-2008 12:03	10.0	5.0		5000		1:NA=185689
031	011508r	MSS	199928-006	133720	WET Le	15-JAN-2008 12:07	10.0	5.0	1	5000		1:NA=180211

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98022120 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 15-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	011508r	ICSAB				15-JAN-2008 12:12	1.0	1.0		5000	8	5:AL=491634
033	011508r	CCV				15-JAN-2008 12:17	1.0	1.0		5000	9	
034	011508r	CCB				15-JAN-2008 12:21	1.0	1.0		5000		
035	011508r	SER	QC423987	133720	WET Le	15-JAN-2008 12:44	50.0	5.0	1	5000		
036	011508r	PDS	QC423988	133720	WET Le	15-JAN-2008 12:49	10.0	5.0		5000	10 11	1:NA=201631
037	011508r	ICSAB				15-JAN-2008 12:51	1.0	1.0		5000	8	5:AL=499709
038	011508r	CCV				15-JAN-2008 12:56	1.0	1.0		5000	9	
039	011508r	CCB				15-JAN-2008 13:00	1.0	1.0		5000		
040	011508r	BLANK	QC423982	133762	Water	15-JAN-2008 15:47	1.0	1.0		5000		
041	011508r	BS	QC423983	133762	Water	15-JAN-2008 15:52	1.0	1.0		5000		
042	011508r	BSD	QC423984	133762	Water	15-JAN-2008 15:55	1.0	1.0		5000		
043	011508r	MSS	200524-001	133762	Water	15-JAN-2008 15:59	1.0	1.0	1	5000		1:NA=146765
044	011508r	MS	QC423985	133762	Water	15-JAN-2008 16:04	1.0	1.0		5000		1:NA=166230
045	011508r	MSD	QC423986	133762	Water	15-JAN-2008 16:07	1.0	1.0		5000		1:NA=160583
046	011508r	MSS	200524-001	133762	Water	15-JAN-2008 16:11	10.0	1.0		5000		
047	011508r	SAMPLE	200524-002	133762	Water	15-JAN-2008 16:16	1.0	1.0		5000		
048	011508r	SAMPLE	200524-003	133762	Water	15-JAN-2008 16:20	1.0	1.0	3	5000		3:NA=354422
049	011508r	CCV				15-JAN-2008 16:30	1.0	1.0		5000	9	
050	011508r	CCB				15-JAN-2008 16:35	1.0	1.0		5000		
051	011508r	SAMPLE	200358-001	133762	Water	15-JAN-2008 16:39	1.0	1.0		5000		
052	011508r	SAMPLE	200358-002	133762	Water	15-JAN-2008 16:44	1.0	1.0		5000		
053	011508r	SAMPLE	200358-003	133762	Water	15-JAN-2008 16:48	1.0	1.0		5000		
054	011508r	SAMPLE	200393-001	133762	Water	15-JAN-2008 16:53	1.0	1.0		5000		
055	011508r	SAMPLE	200524-003	133762	Water	15-JAN-2008 16:57	10.0	1.0		5000		2:NA=222491
056	011508r	SAMPLE	200405-001	133762	Water	15-JAN-2008 17:02	1.0	1.0		5000		
057	011508r	SAMPLE	200405-002	133762	Water	15-JAN-2008 17:06	1.0	1.0		5000		
058	011508r	SAMPLE	200411-001	133762	Water	15-JAN-2008 17:11	1.0	1.0		5000		
059	011508r	SAMPLE	200411-002	133762	Water	15-JAN-2008 17:15	1.0	1.0		5000		1:CA=326413
060	011508r	SAMPLE	200462-002	133762	Water	15-JAN-2008 17:20	1.0	1.0		5000		1:CA=320114
061	011508r	X				15-JAN-2008 17:30	1.0				9	
062	011508r	CCV				15-JAN-2008 17:31	1.0	1.0		5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98022120 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 15-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	011508r	CCB				15-JAN-2008 17:36	1.0	1.0		5000		
064	011508r	SAMPLE	200497-001	133762	Water	15-JAN-2008 17:40	1.0	1.0	1	5000	3:MG=788540	
065	011508r	SAMPLE	200512-001	133762	Water	15-JAN-2008 17:47	1.0	1.0	1	5000	3:MG=514417	
066	011508r	SAMPLE	200512-001	133762	Water	15-JAN-2008 17:54	1.0	1.0		5000	3:MG=526473	
067	011508r	SAMPLE	200497-001	133762	Water	15-JAN-2008 18:00	1.0	1.0		5000	3:MG=801854	
068	011508r	ICSAB				15-JAN-2008 18:11	1.0	1.0		5000	8 5:AL=538925	
069	011508r	X				15-JAN-2008 18:16	1.0	1.0	1	5000	9	
070	011508r	CCV				15-JAN-2008 18:17	1.0	1.0		5000	9	
071	011508r	CCB				15-JAN-2008 18:21	1.0	1.0		5000		
072	011508r	BLANK	QC423992	133764	Water	15-JAN-2008 18:29	1.0	1.0		5000		
073	011508r	BS	QC423993	133764	Water	15-JAN-2008 18:34	1.0	1.0		5000		
074	011508r	BSD	QC423994	133764	Water	15-JAN-2008 18:37	1.0	1.0		5000		
075	011508r	MSS	200517-008	133764	Water	15-JAN-2008 18:41	1.0	1.0	2	5000	2:NA=419116	
076	011508r	MS	QC423995	133764	Water	15-JAN-2008 18:45	1.0	1.0	3	5000	2:NA=392775	
077	011508r	MSD	QC423996	133764	Water	15-JAN-2008 18:48	1.0	1.0	1	5000	2:NA=455471	
078	011508r	SAMPLE	200517-010	133764	Water	15-JAN-2008 18:52	1.0	1.0		5000	1:CA=208453	
079	011508r	SAMPLE	200517-016	133764	Water	15-JAN-2008 18:57	1.0	1.0		5000	2:NA=146226	
080	011508r	X				15-JAN-2008 19:10	1.0	1.0		5000	9	
081	011508r	CCV				15-JAN-2008 19:12	1.0	1.0		5000	9	
082	011508r	CCB				15-JAN-2008 19:17	1.0	1.0		5000		
083	011508r	SAMPLE	200499-001	133764	Water	15-JAN-2008 19:22	1.0	1.0		5000	1:K=139932	
084	011508r	ICSAB				15-JAN-2008 19:35	1.0	1.0		5000	8 5:AL=504767	
085	011508r	CCV				15-JAN-2008 19:39	1.0	1.0		5000	9	
086	011508r	CCB				15-JAN-2008 19:44	1.0	1.0		5000		
087	011508r	BLANK	QC424001	133769	WET Le	15-JAN-2008 19:56	10.0	5.0	1	5000	1:NA=183721	
088	011508r	BS	QC424002	133769	WET Le	15-JAN-2008 20:00	1.0	1.0		5000		
089	011508r	BSD	QC424003	133769	WET Le	15-JAN-2008 20:03	1.0	1.0		5000		
090	011508r	MSS	200455-001	133769	WET Le	15-JAN-2008 20:06	10.0	5.0	1	5000	1:NA=184477	
091	011508r	MS	QC424004	133769	WET Le	15-JAN-2008 20:10	10.0	5.0		5000	1:NA=193890	
092	011508r	MSD	QC424005	133769	WET Le	15-JAN-2008 20:14	10.0	5.0	1	5000	1:NA=203996	
093	011508r	SER	QC424006	133769	WET Le	15-JAN-2008 20:17	50.0	5.0	1	5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98022120 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 15-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	011508r	PDS	QC424007	133769	WET Le	15-JAN-2008 20:22	10.0	5.0		5000	10 11	1:NA=214153
095	011508r	CCV				15-JAN-2008 20:45	1.0	1.0		5000	9	
096	011508r	CCB				15-JAN-2008 20:50	1.0	1.0		5000		
097	011508r	SAMPLE	200494-001	133769	WET Le	15-JAN-2008 20:55	10.0	5.0		5000		1:NA=177428
098	011508r	SAMPLE	200461-001	133769	WET Le	15-JAN-2008 20:59	10.0	5.0		5000		1:NA=192165
099	011508r	ICSAB				15-JAN-2008 21:11	1.0	1.0		5000	8	5:AL=504470
100	011508r	X				15-JAN-2008 21:15	1.0				9	
101	011508r	CCV				15-JAN-2008 21:17	1.0	1.0		5000	9	
102	011508r	CCB				15-JAN-2008 21:21	1.0	1.0		5000		
103	011508r	BLANK	QC424102	133789	Soil	15-JAN-2008 22:33	1.0	50.0		5000		
104	011508r	BS	QC424103	133789	Soil	15-JAN-2008 22:37	1.0	50.0		5000		
105	011508r	BSD	QC424104	133789	Soil	15-JAN-2008 22:40	1.0	50.0		5000		
106	011508r	MSS	200545-001	133789	Soil	15-JAN-2008 22:42	1.0	47.62	6	5000		5:FE=500602
107	011508r	MS	QC424105	133789	Soil	15-JAN-2008 22:47	1.0	49.02		5000		5:FE=482758
108	011508r	MSD	QC424106	133789	Soil	15-JAN-2008 22:52	1.0	47.62	1	5000		5:FE=492270
109	011508r	MSS	200545-001	133789	Soil	15-JAN-2008 22:56	1.0	47.62	2	5000		5:FE=461732
110	011508r	MSS	200545-001	133789	Soil	15-JAN-2008 23:01	10.0	47.62	5	5000		
111	011508r	SAMPLE	200545-002	133789	Soil	15-JAN-2008 23:04	1.0	49.50		5000		7:FE=703171
112	011508r	SAMPLE	200545-003	133789	Soil	15-JAN-2008 23:09	1.0	47.62	1	5000		5:FE=423803
113	011508r	X				15-JAN-2008 23:20	1.0				9	
114	011508r	CCV				15-JAN-2008 23:21	1.0	1.0		5000	9	
115	011508r	X				15-JAN-2008 23:26	1.0					
116	011508r	CCB				15-JAN-2008 23:29	1.0	1.0		5000		
117	011508r	SAMPLE	200545-004	133789	Soil	15-JAN-2008 23:34	1.0	46.73	3	5000		8:CA=1220744
118	011508r	SAMPLE	200545-005	133789	Soil	15-JAN-2008 23:39	1.0	45.87	1	5000		5:FE=371438
119	011508r	SAMPLE	200545-006	133789	Soil	15-JAN-2008 23:44	1.0	47.17	2	5000		8:CA=1778419
120	011508r	SAMPLE	200545-007	133789	Soil	15-JAN-2008 23:49	1.0	49.02	1	5000		6:FE=556552
121	011508r	SAMPLE	200545-008	133789	Soil	15-JAN-2008 23:54	1.0	49.02	2	5000		5:FE=499964
122	011508r	SAMPLE	200545-009	133789	Soil	15-JAN-2008 23:59	1.0	49.02		5000		5:FE=569186
123	011508r	SAMPLE	200545-010	133789	Soil	16-JAN-2008 00:01	1.0	46.30		5000		5:FE=673848
124	011508r	SAMPLE	200545-011	133789	Soil	16-JAN-2008 00:04	1.0	45.45	1	5000		4:FE=450448

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98022120 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 15-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
125	011508r	SAMPLE	200545-012	133789	Soil	16-JAN-2008 00:06	1.0	49.02	1	5000	5:FE=327525	
126	011508r	SAMPLE	200545-013	133789	Soil	16-JAN-2008 00:11	1.0	45.45	1	5000	4:FE=348777	
127	011508r	CCV				16-JAN-2008 00:14	1.0	1.0		5000	9	
128	011508r	CCB				16-JAN-2008 00:18	1.0	1.0		5000		
129	011508r	SAMPLE	200545-014	133789	Soil	16-JAN-2008 00:23	1.0	47.62		5000	1:FE=143651	
130	011508r	SAMPLE	200545-015	133789	Soil	16-JAN-2008 00:26	1.0	46.73		5000	3:FE=324396	
131	011508r	SAMPLE	200539-001	133789	Miscel	16-JAN-2008 00:30	1.0	44.64		5000		
132	011508r	SAMPLE	200539-002	133789	Miscel	16-JAN-2008 00:34	1.0	45.87		5000		
133	011508r	SAMPLE	200539-003	133789	Miscel	16-JAN-2008 00:39	1.0	46.30		5000		
134	011508r	SAMPLE	200539-004	133789	Miscel	16-JAN-2008 00:44	1.0	46.30		5000		
135	011508r	SAMPLE	200539-005	133789	Miscel	16-JAN-2008 00:48	1.0	48.08		5000	1:NA=113977	
136	011508r	SAMPLE	200545-002	133789	Soil	16-JAN-2008 00:53	1.0	49.50	1	5000		
137	011508r	SAMPLE	200545-003	133789	Soil	16-JAN-2008 00:57	1.0	47.62	1	5000	7:FE=715475	
138	011508r	SAMPLE	200545-004	133789	Soil	16-JAN-2008 01:02	1.0	46.73	2	5000	5:FE=358607	
139	011508r	CCV				16-JAN-2008 01:07	1.0	1.0		5000	8:CA=1198200	
140	011508r	X				16-JAN-2008 01:11	1.0				9	
141	011508r	CCB				16-JAN-2008 01:14	1.0	1.0		5000		
142	011508r	SAMPLE	200545-007	133789	Soil	16-JAN-2008 01:19	1.0	49.02	1	5000		
143	011508r	SAMPLE	200545-002	133789	Soil	16-JAN-2008 01:24	10.0	49.50		5000	6:FE=520570	
144	011508r	SAMPLE	200545-003	133789	Soil	16-JAN-2008 01:27	10.0	47.62	1	5000		
145	011508r	SAMPLE	200545-004	133789	Soil	16-JAN-2008 01:31	10.0	46.73		5000		
146	011508r	SAMPLE	200545-005	133789	Soil	16-JAN-2008 01:34	10.0	45.87		5000	2:CA=144457	
147	011508r	SAMPLE	200545-006	133789	Soil	16-JAN-2008 01:38	10.0	47.17	1	5000		
148	011508r	SAMPLE	200545-007	133789	Soil	16-JAN-2008 01:41	10.0	49.02		5000	2:CA=225288	
149	011508r	ICSAB				16-JAN-2008 01:45	1.0	1.0		5000		
150	011508r	BLANK	QC424107	133790	Soil	16-JAN-2008 01:49	1.0	50.0	1	5000	8 5:AL=625890	
151	011508r	BS	QC424108	133790	Soil	16-JAN-2008 01:54	1.0	50.0		1 5000		
152	011508r	X				16-JAN-2008 01:56	1.0	1.0	2	5000	9	
153	011508r	CCV				16-JAN-2008 01:58	1.0	1.0		5000	9	
154	011508r	CCB				16-JAN-2008 02:02	1.0	1.0		5000		
155	011508r	BSD	QC424109	133790	Soil	16-JAN-2008 02:07	1.0	50.0	1	5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98022120 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

Begun: 15-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
156	011508r	MSS	200520-005	133790	Soil	16-JAN-2008 02:09	1.0	48.08	5		5000	4:AL=355325	
157	011508r	MS	QC424110	133790	Soil	16-JAN-2008 02:13	1.0	45.05	1	2	5000	5:AL=600897	
158	011508r	MSD	QC424111	133790	Soil	16-JAN-2008 02:16	1.0	47.62		3	5000	4:AL=472860	
159	011508r	SER	QC424112	133790	Soil	16-JAN-2008 02:18	5.0	48.08		2	5000		
160	011508r	PDS	QC424113	133790	Soil	16-JAN-2008 02:22	1.0	48.08			5000	10 11	4:AL=374907
161	011508r	SAMPLE	200527-001	133790	Soil	16-JAN-2008 02:24	1.0	46.73	1		5000	5:CA=781142	
162	011508r	SAMPLE	200542-001	133790	Soil	16-JAN-2008 02:27	1.0	50.0	4		5000	3:FE=245951	
163	011508r	ICSAB				16-JAN-2008 02:31	1.0	1.0			5000	8	5:AL=513349
164	011508r	X				16-JAN-2008 02:35	1.0	1.0	1		5000	9	
165	011508r	CCV				16-JAN-2008 02:37	1.0	1.0	1		5000	9	
166	011508r	CCB				16-JAN-2008 02:41	1.0	1.0			5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 98022120001
Units : ug/L

Date : 15-JAN-2008 08:40
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	011508r	98022120002	CRIM08	15-JAN-2008 08:44	S7555
L2	011508r	98022120003	CS100	15-JAN-2008 08:49	S7713
L3	011508r	98022120004	CS1K	15-JAN-2008 08:52	S7712
L4	011508r	98022120005	CS10K	15-JAN-2008 08:56	S7714
L5	011508r	98022120006	CS100K	15-JAN-2008 09:01	S7674

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	20.506	31.315	31.234	32.739		LOR0	0.00000	0.03056		28.948	1.000	0.995	
Arsenic	A	9.6289	9.9121	10.144	10.036		LOR0	0.00000	0.09963		9.9302	1.000	0.995	
Barium	A	105.73	96.113	96.897	97.465		LOR0	0.00000	0.01026		99.050	1.000	0.995	
Beryllium	A	4402.2	4186.0	4256.8			LOR0	0.00000	2.35E-4		4281.7	1.000	0.995	
Boron	A	193.27		192.58	202.24		LOR0	0.00000	0.00495		196.03	1.000	0.995	
Cadmium	A	199.37	205.66	210.60	208.78		LOR0	0.00000	0.00479		206.10	1.000	0.995	
Chromium	A	212.75	190.41	191.64	193.48		LOR0	0.00000	0.00517		197.07	1.000	0.995	
Cobalt	A	55.351	52.521	55.586	56.368		LOR0	0.00000	0.01774		54.957	1.000	0.995	
Copper	A	238.52	177.16	185.04	186.72		LOR0	0.00000	0.00536		196.86	1.000	0.995	
Lead	A	34.763	53.690	56.273	56.200		LOR0	0.00000	0.01779		50.232	1.000	0.995	
Manganese	A	588.39	568.47	574.41	569.98		LOR0	0.00000	0.00175		575.32	1.000	0.995	
Molybdenum	A	48.741	44.815	45.116	44.293		LOR0	0.00000	0.02257		45.741	1.000	0.995	
Nickel	A	104.13	92.697	96.571	97.715		LOR0	0.00000	0.01024		97.778	1.000	0.995	
Selenium	A	17.374	13.721	13.835	14.411		LOR0	0.00000	0.06942		14.835	1.000	0.995	
Silver	A	545.85	573.01	588.81	602.17		LOR0	0.00000	0.00167		577.46	1.000	0.995	
Thallium	A	10.488	10.812	11.203	11.261		LOR0	0.00000	0.08880		10.941	1.000	0.995	
Tin	A	20.163	19.233	20.027	21.509		LOR0	0.00000	0.04653		20.233	1.000	0.995	
Titanium	A	806.06	783.66	793.51	790.06		LOR0	0.00000	0.00127		793.32	1.000	0.995	
Vanadium	A	214.09	212.97	215.70	223.10		LOR0	0.00000	0.00448		216.47	1.000	0.995	
Zinc	A	98.711	79.355	75.320	76.238		LOR0	0.00000	0.01312		82.406	1.000	0.995	
Aluminum	R	0.7623		0.6967	0.6644	0.6797	LOR0	0.00000	1.47146		0.7008	1.000	0.995	
Calcium	R	8.7064		7.8011	6.7407	6.4738	LOR0	0.00000	0.15440		7.4305	1.000	0.995	
Iron	R	4.2440		4.2536	4.0108	3.8828	LOR0	0.00000	0.25746		4.0978	1.000	0.995	
Magnesium	R	0.7939		0.8171	0.7814	0.7634	LOR0	0.00000	1.30969		0.7889	1.000	0.995	
Potassium	R	2.6064		2.7531	2.7066	2.7354	LOR0	0.00000	0.36561		2.7004	1.000	0.995	
Sodium	R	302.12		336.54	323.22	318.02	LOR0	0.00000	0.00314		319.97	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-37	100.0	-4	1000	-5	10000	0		
Arsenic	A	5.000	-4	100.0	-1	1000	1	10000	0		
Barium	A	5.000	8	100.0	-1	1000	-1	10000	0		
Beryllium	A	2.000	3	100.0	-2	1000	0				
Boron	A	100.0	-4			1000	-5	10000	0		
Cadmium	A	5.000	-5	100.0	-2	1000	1	10000	0		
Chromium	A	5.000	10	100.0	-2	1000	-1	10000	0		
Cobalt	A	5.000	-2	100.0	-7	1000	-1	10000	0		
Copper	A	5.000	28	100.0	-5	1000	-1	10000	0		
Lead	A	3.000	-38	100.0	-4	1000	0	10000	0		
Manganese	A	5.000	3	100.0	0	1000	1	10000	0		
Molybdenum	A	5.000	10	100.0	1	1000	2	10000	0		
Nickel	A	5.000	7	100.0	-5	1000	-1	10000	0		
Selenium	A	5.000	21	100.0	-5	1000	-4	10000	0		
Silver	A	5.000	-9	100.0	-4	1000	-2	2000	0		
Thallium	A	5.000	-7	100.0	-4	1000	-1	10000	0		
Tin	A	40.00	-6	100.0	-11	1000	-7	10000	0		
Titanium	A	10.00	2	100.0	-1	1000	0	10000	0		
Vanadium	A	5.000	-4	100.0	-5	1000	-3	10000	0		
Zinc	A	20.00	29	100.0	4	1000	-1	10000	0		
Aluminum	R	100.0	12			1000	3	10000	-2	100000	0
Calcium	R	200.0	34			1000	20	10000	4	100000	0
Iron	R	100.0	9			1000	10	10000	3	100000	0
Magnesium	R	200.0	4			1000	7	10000	2	100000	0
Potassium	R	500.0	-5			1000	1	10000	-1	100000	0
Sodium	R	500.0	-5			1000	6	10000	2	100000	0

strument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

98022120001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 1/15/2008 8:40:23 AM
Data Type: Reprocessed on 1/15/2008 9:17:32 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	128.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-5617.5	264.32	4.71%	[0.00]	ug/L
Al 308.215 R	24.1	3.26	13.55%	[0.00]	ug/L
As 188.979	-42.7	3.95	9.25%	[0.00]	ug/L
B 249.677	-920.1	15.00	1.63%	[0.00]	ug/L
Ba 233.527	-25.2	2.89	11.46%	[0.00]	ug/L
Be 313.107	-1210.9	91.62	7.57%	[0.00]	ug/L
Ca 315.887 R	479.6	12.10	2.52%	[0.00]	ug/L
Cd 214.440	121.8	6.63	5.44%	[0.00]	ug/L
Co 228.616	-15.4	8.97	58.37%	[0.00]	ug/L
Cr 267.716	-35.2	21.45	60.88%	[0.00]	ug/L
Cu 324.752	3029.1	15.47	0.51%	[0.00]	ug/L
Fe 238.204 R	-20.4	0.60	2.97%	[0.00]	ug/L
K 766.490 R	-782.6	133.84	17.10%	[0.00]	ug/L
Mg 279.077 R	-221.1	6.47	2.92%	[0.00]	ug/L
Mn 257.610	-346.0	15.37	4.44%	[0.00]	ug/L
Mo 202.031	-15.0	6.88	45.89%	[0.00]	ug/L
Na 589.592 R	162411.5	7587.80	4.67%	[0.00]	ug/L
Ni 231.604	720.9	10.17	1.41%	[0.00]	ug/L
Pb 220.353	444.3	25.74	5.79%	[0.00]	ug/L
Sb 206.836	555.0	85.39	15.39%	[0.00]	ug/L
Se 196.026	27.5	37.85	137.56%	[0.00]	ug/L
Ti 334.940 R	659.7	27.86	4.22%	[0.00]	ug/L
Tl 190.801	11.3	3.68	32.47%	[0.00]	ug/L
V 292.402	-1003.5	19.68	1.96%	[0.00]	ug/L
Zn 206.200	569.0	3.08	0.54%	[0.00]	ug/L
Sn 189.927	60.6	3.52	5.81%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 1/15/2008 8:44:46 AM
Data Type: Reprocessed on 1/15/2008 9:17:36 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	128.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Y 371.029	3651678.0	47668.93	1.31%	100.0	%
Y	245544.3	6799.59	2.77%	100.0	%
Ag 328.068†	2729.2	362.55	13.28%	[5.0]	ug/L
Al 308.215 Rt	76.2	3.63	4.76%	[100]	ug/L
As 188.979†	48.1	9.60	19.95%	[5.0]	ug/L
B 249.677†	19326.8	699.87	3.62%	[100]	ug/L
Ba 233.527†	528.6	5.85	1.11%	[5.0]	ug/L
Be 313.107†	8804.4	265.00	3.01%	[2.0]	ug/L
Ca 315.887 Rt	1741.3	63.01	3.62%	[200]	ug/L
Cd 214.440†	996.8	13.02	1.31%	[5.0]	ug/L
Co 228.616†	276.8	5.79	2.09%	[5.0]	ug/L
Cr 267.716†	1063.8	16.35	1.54%	[5.0]	ug/L
Cu 324.752†	1192.6	98.64	8.27%	[5.0]	ug/L
Fe 238.204 Rt	424.4	11.86	2.79%	[100]	ug/L
K 766.490 Rt	1303.2	110.95	8.51%	[500]	ug/L
Mg 279.077 Rt	158.8	0.94	0.59%	[200]	ug/L
Mn 257.610†	2942.0	24.24	0.82%	[5.0]	ug/L
Mo 202.031†	243.7	4.38	1.80%	[5.0]	ug/L
Na 589.592 Rt	151058.7	10547.07	6.98%	[500]	ug/L
Ni 231.604†	520.6	25.06	4.81%	[5.0]	ug/L
Pb 220.353†	104.3	52.59	50.43%	[3.0]	ug/L
Sb 206.836†	102.5	47.22	46.05%	[5.0]	ug/L
Se 196.026†	86.9	14.54	16.74%	[5.0]	ug/L
Ti 334.940 Rt	8060.6	311.97	3.87%	[10]	ug/L
Tl 190.801†	52.4	19.05	36.32%	[5.0]	ug/L
V 292.402†	1070.5	47.50	4.44%	[5.0]	ug/L
Zn 206.200†	1974.2	31.11	1.58%	[20]	ug/L
Sn 189.927†	806.5	9.08	1.13%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/15/2008 8:49:17 AM
Data Type: Reprocessed on 1/15/2008 9:17:38 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	128.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Y 371.029	3683345.4	27071.20	0.73%	100.9	%
Y	250006.5	7397.87	2.96%	101.8	%
Ag 328.068†	57301.3	692.15	1.21%	[100]	ug/L
As 188.979†	991.2	13.34	1.35%	[100]	ug/L
Ba 233.527†	9611.3	149.95	1.56%	[100]	ug/L
Be 313.107†	418603.1	822.32	0.20%	[100]	ug/L
Cd 214.440†	20566.1	286.41	1.39%	[100]	ug/L
Co 228.616†	5252.1	37.09	0.71%	[100]	ug/L
Cr 267.716†	19040.9	284.75	1.50%	[100]	ug/L
Cu 324.752†	17716.4	270.58	1.53%	[100]	ug/L
Mn 257.610†	56847.0	666.64	1.17%	[100]	ug/L
Mo 202.031†	4481.5	44.42	0.99%	[100]	ug/L
Ni 231.604†	9269.7	188.21	2.03%	[100]	ug/L
Pb 220.353†	5369.0	78.55	1.46%	[100]	ug/L
Sb 206.836†	3131.5	31.63	1.01%	[100]	ug/L
Se 196.026†	1372.1	24.64	1.80%	[100]	ug/L
Ti 334.940 R†	78366.1	1229.60	1.57%	[100]	ug/L
Tl 190.801†	1081.2	14.99	1.39%	[100]	ug/L
V 292.402†	21297.3	417.57	1.96%	[100]	ug/L
Zn 206.200†	7935.5	79.93	1.01%	[100]	ug/L
Sn 189.927†	1923.3	26.55	1.38%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/15/2008 8:52:51 AM
Data Type: Reprocessed on 1/15/2008 9:17:40 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	128.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3668501.3	21678.44	0.59%	100.5	%
Y	234767.6	14867.68	6.33%	95.61	%
Ag 328.068†	588813.8	1287.57	0.22%	[1000]	ug/L
Al 308.215 Rt	696.7	51.90	7.45%	[1000]	ug/L
As 188.979†	10144.3	203.76	2.01%	[1000]	ug/L
B 249.677†	192580.0	399.63	0.21%	[1000]	ug/L
Ba 233.527†	96896.8	152.97	0.16%	[1000]	ug/L
Be 313.107†	4256793.7	5007.10	0.12%	[1000]	ug/L
Ca 315.887 Rt	7801.1	492.97	6.32%	[1000]	ug/L
Cd 214.440†	210597.0	241.62	0.11%	[1000]	ug/L
Co 228.616†	55586.2	505.40	0.91%	[1000]	ug/L
Cr 267.716†	191635.6	544.72	0.28%	[1000]	ug/L
Cu 324.752†	185042.9	338.79	0.18%	[1000]	ug/L
Fe 238.204 Rt	4253.6	256.80	6.04%	[1000]	ug/L
K 766.490 Rt	2753.1	256.80	9.33%	[1000]	ug/L
Mg 279.077 Rt	817.1	31.05	3.80%	[1000]	ug/L
Mn 257.610†	574413.4	519.33	0.09%	[1000]	ug/L
Mo 202.031†	45115.7	431.48	0.96%	[1000]	ug/L
Na 589.592 Rt	336541.6	32962.20	9.79%	[1000]	ug/L
Ni 231.604†	96571.0	270.16	0.28%	[1000]	ug/L
Pb 220.353†	56273.4	662.57	1.18%	[1000]	ug/L
Sb 206.836†	31233.5	239.69	0.77%	[1000]	ug/L
Se 196.026†	13835.0	191.88	1.39%	[1000]	ug/L
Ti 334.940 Rt	793511.0	251.91	0.03%	[1000]	ug/L
Tl 190.801†	11203.4	109.02	0.97%	[1000]	ug/L
V 292.402†	215702.2	123.11	0.06%	[1000]	ug/L
Zn 206.200†	75320.5	338.03	0.45%	[1000]	ug/L
Sn 189.927†	20026.7	163.82	0.82%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/15/2008 8:56:25 AM
Data Type: Reprocessed on 1/15/2008 9:17:41 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	128.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3492811.0	4051.96	0.12%	95.65	%
Y	237675.1	2556.17	1.08%	96.80	%
Ag 328.068†	1204337.3	710.37	0.06%	[2000]	ug/L
Al 308.215 Rt	6644.4	39.51	0.59%	[10000]	ug/L
As 188.979†	100357.0	647.50	0.65%	[10000]	ug/L
B 249.677†	2022360.8	8366.87	0.41%	[10000]	ug/L
Ba 233.527†	974646.7	3148.93	0.32%	[10000]	ug/L
Ca 315.887 Rt	67406.5	301.70	0.45%	[10000]	ug/L
Cd 214.440†	2087768.7	11758.96	0.56%	[10000]	ug/L
Co 228.616†	563681.9	2519.91	0.45%	[10000]	ug/L
Cr 267.716†	1934780.0	3075.45	0.16%	[10000]	ug/L
Cu 324.752†	1867151.8	6443.44	0.35%	[10000]	ug/L
Fe 238.204 Rt	40108.4	256.25	0.64%	[10000]	ug/L
K 766.490 Rt	27065.8	148.84	0.55%	[10000]	ug/L
Mg 279.077 Rt	7814.3	74.37	0.95%	[10000]	ug/L
Mn 257.610†	5699842.0	44598.51	0.78%	[10000]	ug/L
Mo 202.031†	442931.4	6980.03	1.58%	[10000]	ug/L
Na 589.592 Rt	3232150.2	9968.39	0.31%	[10000]	ug/L
Ni 231.604†	977152.9	1939.68	0.20%	[10000]	ug/L
Pb 220.353†	561997.1	3992.67	0.71%	[10000]	ug/L
Sb 206.836†	327390.1	1327.92	0.41%	[10000]	ug/L
Se 196.026†	144107.4	1159.77	0.80%	[10000]	ug/L
Ti 334.940 Rt	7900596.7	70269.25	0.89%	[10000]	ug/L
Tl 190.801†	112614.1	685.46	0.61%	[10000]	ug/L
V 292.402†	2230982.6	1661.29	0.07%	[10000]	ug/L
Zn 206.200†	762376.4	2726.83	0.36%	[10000]	ug/L
Sn 189.927†	215086.9	1071.67	0.50%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/15/2008 9:01:10 AM
Data Type: Reprocessed on 1/15/2008 9:17:42 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	128.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3294805.9	26049.54	0.79%	90.23	%
Y	230370.4	2735.79	1.19%	93.82	%
Al 308.215 Rf	67974.8	154.50	0.23%	[100000]	ug/L
Ca 315.887 Rf	647383.0	2120.78	0.33%	[100000]	ug/L
Fe 238.204 Rf	388277.9	486.44	0.13%	[100000]	ug/L
K 766.490 Rf	273543.2	1383.01	0.51%	[100000]	ug/L
Mg 279.077 Rf	76335.8	145.60	0.19%	[100000]	ug/L
Na 589.592 Rf	31801872.9	118715.21	0.37%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	599.4	0.00000	0.999958	
Al 308.215 R	4	Lin Thru 0	0.0	0.6796	0.00000	0.999997	
As 188.979	4	Lin Thru 0	0.0	10.04	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	202.1	0.00000	0.999989	
Ba 233.527	4	Lin Thru 0	0.0	97.46	0.00000	1.000000	
Be 313.107	3	Lin Thru 0	0.0	4256	0.00000	0.999999	
Ca 315.887 R	4	Lin Thru 0	0.0	6.477	0.00000	0.999989	
Cd 214.440	4	Lin Thru 0	0.0	208.8	0.00000	1.000000	
Co 228.616	4	Lin Thru 0	0.0	56.36	0.00000	0.999999	
Cr 267.716	4	Lin Thru 0	0.0	193.5	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	186.7	0.00000	0.999999	
Fe 238.204 R	4	Lin Thru 0	0.0	3.884	0.00000	0.999994	
K 766.490 R	4	Lin Thru 0	0.0	2.735	0.00000	0.999999	
Mg 279.077 R	4	Lin Thru 0	0.0	0.7635	0.00000	0.999997	
Mn 257.610	4	Lin Thru 0	0.0	570.0	0.00000	1.000000	
Mo 202.031	4	Lin Thru 0	0.0	44.30	0.00000	0.999998	
Na 589.592 R	4	Lin Thru 0	0.0	318.1	0.00000	0.999998	
Ni 231.604	4	Lin Thru 0	0.0	97.70	0.00000	0.999999	
Pb 220.353	4	Lin Thru 0	0.0	56.20	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	32.72	0.00000	0.999990	
Se 196.026	4	Lin Thru 0	0.0	14.40	0.00000	0.999992	
Ti 334.940 R	4	Lin Thru 0	0.0	790.1	0.00000	1.000000	
Tl 190.801	4	Lin Thru 0	0.0	11.26	0.00000	1.000000	
V 292.402	4	Lin Thru 0	0.0	223.0	0.00000	0.999995	
Zn 206.200	4	Lin Thru 0	0.0	76.23	0.00000	0.999999	
Sn 189.927	4	Lin Thru 0	0.0	21.49	0.00000	0.999976	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120007
Cal : 98022120001
Standards: S7982

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 09:05

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	28.948	32.111	5000	4906	ug/L	-2	10	
Arsenic	A	9.9302	10.142	5000	5053	ug/L	1	10	
Barium	A	99.050	96.540	5000	4953	ug/L	-1	10	
Beryllium	A	4281.7	4349.3	500.0	511.0	ug/L	2	10	
Boron	A	196.03	201.39	5000	4982	ug/L	0	10	
Cadmium	A	206.10	206.29	5000	4940	ug/L	-1	10	
Chromium	A	197.07	185.35	5000	4790	ug/L	-4	10	
Cobalt	A	54.957	53.542	5000	4739	ug/L	-5	10	
Copper	A	196.86	177.73	5000	4760	ug/L	-5	10	
Lead	A	50.232	53.088	5000	4723	ug/L	-6	10	
Manganese	A	575.32	553.81	5000	4858	ug/L	-3	10	
Molybdenum	A	45.741	42.149	5000	4757	ug/L	-5	10	
Nickel	A	97.778	93.501	5000	4785	ug/L	-4	10	
Selenium	A	14.835	13.711	5000	4759	ug/L	-5	10	
Silver	A	577.46	579.38	1000	966.5	ug/L	-3	10	
Thallium	A	10.941	10.729	5000	4764	ug/L	-5	10	
Tin	A	20.233	20.521	5000	4774	ug/L	-5	10	
Titanium	A	793.32	774.58	5000	4902	ug/L	-2	10	
Vanadium	A	216.47	215.48	5000	4831	ug/L	-3	10	
Zinc	A	82.406	72.872	5000	4780	ug/L	-4	10	
Aluminum	R	0.7008	0.6629	20000	19510	ug/L	-2	10	
Calcium	R	7.4305	6.5509	20000	20230	ug/L	1	10	
Iron	R	4.0978	3.9398	20000	20290	ug/L	1	10	
Magnesium	R	0.7889	0.7888	20000	20660	ug/L	3	10	
Potassium	R	2.7004	2.6636	20000	19480	ug/L	-3	10	
Sodium	R	319.97	320.33	20000	20140	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3512869	-3.80

98022120007

00126

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120008 File : 011508r IDF : 1.0
Cal : 98022120001 Caldate : 15-JAN-2008 Time : 15-JAN-2008 09:10

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.230]	5.000	1.074	ug/L	!ib
Arsenic	A	[1.896]	5.000	1.320	ug/L	!ib
Barium	A	[1.021]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2609]	2.000	0.04231	ug/L	!ib
Boron	A	[20.22]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.9254]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.9981]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.067]	5.000	0.3034	ug/L	!ib
Copper	A	[0.8979]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.8705]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.567]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.8501]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.240]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.077]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[12.84]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[15.23]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3697934	1.27

Warning ib=instrument blank

98022120008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09
Seqnum : 98022120009
Cal : 98022120001
Standards: S7557

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 09:14

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[3.738]	5.000	ug/L	
Arsenic	A	[4.306]	5.000	ug/L	
Barium	A	[-1.287]	5.000	ug/L	
Beryllium	A	[-0.7101]	2.000	ug/L	
Boron	A	159.2	100.0	ug/L	
Cadmium	A	[-1.336]	5.000	ug/L	
Cobalt	A	[4.278]	5.000	ug/L	
Lead	A	[2.634]	3.000	ug/L	
Molybdenum	A	[4.088]	5.000	ug/L	
Selenium	A	[1.908]	5.000	ug/L	
Silver	A	[1.746]	5.000	ug/L	
Thallium	A	[-5.457]	5.000	ug/L	
Tin	A	[-22.43]	40.00	ug/L	
Zinc	A	[9.536]	20.00	ug/L	
Potassium	R	[127.5]	500.0	ug/L	
Sodium	R	[-222.1]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18330	ug/L	92
Copper	A	20000	19750	ug/L	99
Manganese	A	20000	17840	ug/L	89
Nickel	A	20000	16670	ug/L	83
Titanium	A	20000	19110	ug/L	96
Vanadium	A	20000	19260	ug/L	96
Aluminum	R	500000	482600	ug/L	97
Calcium	R	500000	473400	ug/L	95
Iron	R	200000	184300	ug/L	92
Magnesium	R	500000	477100	ug/L	95

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3056478	-16.30

98022120009

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98022120010 File : 011508r IDF : 1.0
Cal : 98022120001 Caldate : 15-JAN-2008 Time : 15-JAN-2008 09:18
Standards: S8086

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	538.5	ug/L	8	20	
Arsenic	A	500.0	524.7	ug/L	5	20	
Barium	A	500.0	514.9	ug/L	3	20	
Beryllium	A	500.0	538.4	ug/L	8	20	
Cadmium	A	1000	964.2	ug/L	-4	20	
Chromium	A	500.0	492.3	ug/L	-2	20	
Cobalt	A	500.0	441.3	ug/L	-12	20	
Copper	A	500.0	526.0	ug/L	5	20	
Lead	A	1000	898.9	ug/L	-10	20	
Manganese	A	500.0	507.5	ug/L	1	20	
Molybdenum	A	500.0	517.6	ug/L	4	20	
Nickel	A	1000	899.0	ug/L	-10	20	
Selenium	A	500.0	477.6	ug/L	-4	20	
Silver	A	1000	1072	ug/L	7	20	
Thallium	A	500.0	457.1	ug/L	-9	20	
Titanium	A	20000	19690	ug/L	-2		
Vanadium	A	500.0	519.7	ug/L	4	20	
Zinc	A	1000	938.4	ug/L	-6	20	
Aluminum	R	500000	488500	ug/L	-2		
Calcium	R	500000	476200	ug/L	-5		
Iron	R	200000	185100	ug/L	-7		
Magnesium	R	500000	488800	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3042312	-16.69

98022120010

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98022120015
Cal : 98022120001
Standards: S8086

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 09:36

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	536.0	ug/L	7	20	
Arsenic	A	500.0	527.0	ug/L	5	20	
Barium	A	500.0	519.3	ug/L	4	20	
Beryllium	A	500.0	544.5	ug/L	9	20	
Cadmium	A	1000	972.8	ug/L	-3	20	
Chromium	A	500.0	495.8	ug/L	-1	20	
Cobalt	A	500.0	440.4	ug/L	-12	20	
Copper	A	500.0	526.7	ug/L	5	20	
Lead	A	1000	907.4	ug/L	-9	20	
Manganese	A	500.0	511.4	ug/L	2	20	
Molybdenum	A	500.0	517.8	ug/L	4	20	
Nickel	A	1000	908.2	ug/L	-9	20	
Selenium	A	500.0	482.3	ug/L	-4	20	
Silver	A	1000	1083	ug/L	8	20	
Thallium	A	500.0	455.6	ug/L	-9	20	
Titanium	A	20000	19780	ug/L	-1		
Vanadium	A	500.0	524.4	ug/L	5	20	
Zinc	A	1000	933.8	ug/L	-7	20	
Aluminum	R	500000	495900	ug/L	-1		
Calcium	R	500000	475700	ug/L	-5		
Iron	R	200000	185600	ug/L	-7		
Magnesium	R	500000	488700	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3017551	-17.37

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120016
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 09:41

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	31.213	5000	4769	ug/L	-5	10	
Arsenic	A	9.9302	10.049	5000	5006	ug/L	0	10	
Barium	A	99.050	96.668	5000	4959	ug/L	-1	10	
Beryllium	A	4281.7	4341.8	500.0	510.1	ug/L	2	10	
Boron	A	196.03	200.09	5000	4949	ug/L	-1	10	
Cadmium	A	206.10	204.79	5000	4904	ug/L	-2	10	
Chromium	A	197.07	185.54	5000	4795	ug/L	-4	10	
Cobalt	A	54.957	52.492	5000	4646	ug/L	-7	10	
Copper	A	196.86	178.44	5000	4779	ug/L	-4	10	
Lead	A	50.232	52.839	5000	4701	ug/L	-6	10	
Manganese	A	575.32	551.44	5000	4837	ug/L	-3	10	
Molybdenum	A	45.741	42.270	5000	4771	ug/L	-5	10	
Nickel	A	97.778	93.430	5000	4781	ug/L	-4	10	
Selenium	A	14.835	13.621	5000	4728	ug/L	-5	10	
Silver	A	577.46	565.58	1000	943.5	ug/L	-6	10	
Thallium	A	10.941	10.672	5000	4739	ug/L	-5	10	
Tin	A	20.233	20.357	5000	4735	ug/L	-5	10	
Titanium	A	793.32	775.43	5000	4907	ug/L	-2	10	
Vanadium	A	216.47	215.33	5000	4828	ug/L	-3	10	
Zinc	A	82.406	71.296	5000	4676	ug/L	-6	10	
Aluminum	R	0.7008	0.6673	20000	19640	ug/L	-2	10	
Calcium	R	7.4305	6.6118	20000	20420	ug/L	2	10	
Iron	R	4.0978	3.9482	20000	20330	ug/L	2	10	
Magnesium	R	0.7889	0.7912	20000	20720	ug/L	4	10	
Potassium	R	2.7004	2.6363	20000	19280	ug/L	-4	10	
Sodium	R	319.97	311.32	20000	19580	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3540859	-3.03

98022120016

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120017 File : 011508r IDF : 1.0
Cal : 98022120001 Caldate : 15-JAN-2008 Time : 15-JAN-2008 09:46

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.612]	5.000	1.074	ug/L	!ib
Arsenic	A	[1.770]	5.000	1.320	ug/L	!ib
Barium	A	[0.9511]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1038]	2.000	0.04231	ug/L	!ib
Boron	A	[13.82]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.6281]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.8696]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.010]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.8505]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.315]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.7163]	5.000	0.3660	ug/L	!ib
Selenium	A	[1.998]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.549]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.496]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[63.41]	100.0	10.62	ug/L	!ib
Calcium	R	[51.24]	200.0	44.07	ug/L	!ib
Iron	R	[36.01]	100.0	6.086	ug/L	!ib
Magnesium	R	[58.97]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3680715	0.80

warning ib=instrument blank

98022120017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120028
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 11:54

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	31.578	5000	4825	ug/L	-4	10	
Arsenic	A	9.9302	10.415	5000	5188	ug/L	4	10	
Barium	A	99.050	97.907	5000	5023	ug/L	0	10	
Beryllium	A	4281.7	4388.2	500.0	515.5	ug/L	3	10	
Boron	A	196.03	202.85	5000	5018	ug/L	0	10	
Cadmium	A	206.10	205.16	5000	4913	ug/L	-2	10	
Chromium	A	197.07	187.44	5000	4844	ug/L	-3	10	
Cobalt	A	54.957	54.517	5000	4826	ug/L	-3	10	
Copper	A	196.86	181.76	5000	4868	ug/L	-3	10	
Lead	A	50.232	54.717	5000	4868	ug/L	-3	10	
Manganese	A	575.32	555.46	5000	4872	ug/L	-3	10	
Molybdenum	A	45.741	43.287	5000	4885	ug/L	-2	10	
Nickel	A	97.778	94.517	5000	4837	ug/L	-3	10	
Selenium	A	14.835	14.124	5000	4903	ug/L	-2	10	
Silver	A	577.46	579.11	1000	966.1	ug/L	-3	10	
Thallium	A	10.941	11.031	5000	4898	ug/L	-2	10	
Tin	A	20.233	20.990	5000	4883	ug/L	-2	10	
Titanium	A	793.32	783.07	5000	4956	ug/L	-1	10	
Vanadium	A	216.47	217.38	5000	4874	ug/L	-3	10	
Zinc	A	82.406	74.055	5000	4857	ug/L	-3	10	
Aluminum	R	0.7008	0.6687	20000	19680	ug/L	-2	10	
Calcium	R	7.4305	6.5570	20000	20250	ug/L	1	10	
Iron	R	4.0978	3.9004	20000	20080	ug/L	0	10	
Magnesium	R	0.7889	0.7933	20000	20780	ug/L	4	10	
Potassium	R	2.7004	2.6053	20000	19050	ug/L	-5	10	
Sodium	R	319.97	320.60	20000	20160	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3469774	-4.98

98022120028

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120029 File : 011508r IDF : 1.0
Cal : 98022120001 Caldate : 15-JAN-2008 Time : 15-JAN-2008 11:58

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[1.598]	5.000	1.320	ug/L	!ib
Barium	A	[1.045]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1304]	2.000	0.04231	ug/L	!ib
Boron	A	[12.06]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.3211]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.7109]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.039]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.8316]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.338]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.7209]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.158]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.060]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[6.134]	100.0	6.086	ug/L	!ib
Magnesium	R	[13.60]	200.0	10.47	ug/L	!ib
Potassium	R	[89.11]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3661661	0.27

warning ib=instrument blank

98022120029

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98022120032 File : 011508r IDF : 1.0
Cal : 98022120001 Caldate : 15-JAN-2008 Time : 15-JAN-2008 12:12
Standards: S8086

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	541.9	ug/L	8	20	
Arsenic	A	500.0	533.6	ug/L	7	20	
Barium	A	500.0	523.6	ug/L	5	20	
Beryllium	A	500.0	549.8	ug/L	10	20	
Cadmium	A	1000	971.2	ug/L	-3	20	
Chromium	A	500.0	499.5	ug/L	0	20	
Cobalt	A	500.0	450.2	ug/L	-10	20	
Copper	A	500.0	535.1	ug/L	7	20	
Lead	A	1000	910.1	ug/L	-9	20	
Manganese	A	500.0	513.3	ug/L	3	20	
Molybdenum	A	500.0	521.7	ug/L	4	20	
Nickel	A	1000	916.6	ug/L	-8	20	
Selenium	A	500.0	500.3	ug/L	0	20	
Silver	A	1000	1087	ug/L	9	20	
Thallium	A	500.0	470.4	ug/L	-6	20	
Titanium	A	20000	19960	ug/L	0		
Vanadium	A	500.0	528.9	ug/L	6	20	
Zinc	A	1000	947.1	ug/L	-5	20	
Aluminum	R	500000	491600	ug/L	-2		
Calcium	R	500000	484100	ug/L	-3		
Iron	R	200000	186100	ug/L	-7		
Magnesium	R	500000	489400	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3013362	-17.48

98022120032

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120033
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 12:17

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	31.320	5000	4786	ug/L	-4	10	
Arsenic	A	9.9302	10.334	5000	5148	ug/L	3	10	
Barium	A	99.050	98.324	5000	5044	ug/L	1	10	
Beryllium	A	4281.7	4412.6	500.0	518.4	ug/L	4	10	
Boron	A	196.03	203.89	5000	5043	ug/L	1	10	
Cadmium	A	206.10	205.11	5000	4912	ug/L	-2	10	
Chromium	A	197.07	188.31	5000	4867	ug/L	-3	10	
Cobalt	A	54.957	53.836	5000	4765	ug/L	-5	10	
Copper	A	196.86	183.22	5000	4907	ug/L	-2	10	
Lead	A	50.232	54.072	5000	4811	ug/L	-4	10	
Manganese	A	575.32	556.69	5000	4883	ug/L	-2	10	
Molybdenum	A	45.741	43.003	5000	4853	ug/L	-3	10	
Nickel	A	97.778	94.866	5000	4855	ug/L	-3	10	
Selenium	A	14.835	13.983	5000	4854	ug/L	-3	10	
Silver	A	577.46	577.30	1000	963.1	ug/L	-4	10	
Thallium	A	10.941	10.942	5000	4858	ug/L	-3	10	
Tin	A	20.233	20.770	5000	4832	ug/L	-3	10	
Titanium	A	793.32	788.19	5000	4988	ug/L	0	10	
Vanadium	A	216.47	218.34	5000	4895	ug/L	-2	10	
Zinc	A	82.406	73.079	5000	4793	ug/L	-4	10	
Aluminum	R	0.7008	0.6957	20000	20470	ug/L	2	10	
Calcium	R	7.4305	6.8216	20000	21070	ug/L	5	10	
Iron	R	4.0978	4.0139	20000	20670	ug/L	3	10	
Magnesium	R	0.7889	0.8216	20000	21520	ug/L	8	10	
Potassium	R	2.7004	2.6805	20000	19600	ug/L	-2	10	
Sodium	R	319.97	321.67	20000	20230	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3474006	-4.87

98022120033

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120034 File : 011508r IDF : 1.0
Cal : 98022120001 Caldate : 15-JAN-2008 Time : 15-JAN-2008 12:21

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[1.662]	5.000	1.320	ug/L	!ib
Barium	A	[1.050]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1475]	2.000	0.04231	ug/L	!ib
Boron	A	[12.73]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.3313]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.7682]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.096]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.8447]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.369]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.7875]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.665]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.120]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[76.44]	100.0	10.62	ug/L	!ib
Calcium	R	[57.63]	200.0	44.07	ug/L	!ib
Iron	R	[34.22]	100.0	6.086	ug/L	!ib
Magnesium	R	[63.49]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3665995	0.39

warning ib=instrument blank

98022120034

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98022120037
Cal : 98022120001
Standards: S8086

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 12:51

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	544.7	ug/L	9	20	
Arsenic	A	500.0	532.4	ug/L	6	20	
Barium	A	500.0	527.1	ug/L	5	20	
Beryllium	A	500.0	552.7	ug/L	11	20	
Cadmium	A	1000	968.6	ug/L	-3	20	
Chromium	A	500.0	503.2	ug/L	1	20	
Cobalt	A	500.0	449.8	ug/L	-10	20	
Copper	A	500.0	542.2	ug/L	8	20	
Lead	A	1000	911.0	ug/L	-9	20	
Manganese	A	500.0	512.0	ug/L	2	20	
Molybdenum	A	500.0	528.7	ug/L	6	20	
Nickel	A	1000	920.5	ug/L	-8	20	
Selenium	A	500.0	498.9	ug/L	0	20	
Silver	A	1000	1090	ug/L	9	20	
Thallium	A	500.0	479.9	ug/L	-4	20	
Titanium	A	20000	20260	ug/L	1		
Vanadium	A	500.0	529.7	ug/L	6	20	
Zinc	A	1000	949.6	ug/L	-5	20	
Aluminum	R	500000	499700	ug/L	0		
Calcium	R	500000	477500	ug/L	-5		
Iron	R	200000	182600	ug/L	-9		
Magnesium	R	500000	499200	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3006765	-17.66

98022120037

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120038
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 12:56

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	30.592	5000	4674	ug/L	-7	10	
Arsenic	A	9.9302	10.350	5000	5156	ug/L	3	10	
Barium	A	99.050	98.564	5000	5057	ug/L	1	10	
Beryllium	A	4281.7	4425.9	500.0	519.9	ug/L	4	10	
Boron	A	196.03	203.75	5000	5040	ug/L	1	10	
Cadmium	A	206.10	202.67	5000	4853	ug/L	-3	10	
Chromium	A	197.07	188.83	5000	4880	ug/L	-2	10	
Cobalt	A	54.957	53.967	5000	4777	ug/L	-4	10	
Copper	A	196.86	184.93	5000	4953	ug/L	-1	10	
Lead	A	50.232	53.885	5000	4794	ug/L	-4	10	
Manganese	A	575.32	552.42	5000	4846	ug/L	-3	10	
Molybdenum	A	45.741	42.831	5000	4834	ug/L	-3	10	
Nickel	A	97.778	94.873	5000	4855	ug/L	-3	10	
Selenium	A	14.835	13.981	5000	4853	ug/L	-3	10	
Silver	A	577.46	572.52	1000	955.1	ug/L	-4	10	
Thallium	A	10.941	10.887	5000	4834	ug/L	-3	10	
Tin	A	20.233	20.709	5000	4817	ug/L	-4	10	
Titanium	A	793.32	789.15	5000	4994	ug/L	0	10	
Vanadium	A	216.47	218.70	5000	4903	ug/L	-2	10	
Zinc	A	82.406	72.958	5000	4785	ug/L	-4	10	
Aluminum	R	0.7008	0.7021	20000	20660	ug/L	3	10	
Calcium	R	7.4305	6.8603	20000	21180	ug/L	6	10	
Iron	R	4.0978	4.0085	20000	20640	ug/L	3	10	
Magnesium	R	0.7889	0.8340	20000	21850	ug/L	9	10	
Potassium	R	2.7004	2.6604	20000	19450	ug/L	-3	10	
Sodium	R	319.97	318.47	20000	20030	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3501150	-4.12

98022120038

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120039
Cal : 98022120001

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 13:00

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.8939]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1334]	2.000	0.04231	ug/L	!ib
Boron	A	[12.02]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.1102]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.6228]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.7826]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.6791]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.043]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.5706]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.516]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[70.38]	100.0	10.62	ug/L	!ib
Calcium	R	[47.06]	200.0	44.07	ug/L	!ib
Iron	R	[29.91]	100.0	6.086	ug/L	!ib
Magnesium	R	[76.66]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3622440	-0.80

=warning ib=instrument blank

98022120039

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120049
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 16:30

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.859	5000	4562	ug/L	-9	10	
Arsenic	A	9.9302	10.591	5000	5276	ug/L	6	10	
Barium	A	99.050	100.21	5000	5141	ug/L	3	10	
Beryllium	A	4281.7	4485.8	500.0	527.0	ug/L	5	10	
Boron	A	196.03	207.22	5000	5126	ug/L	3	10	
Cadmium	A	206.10	201.24	5000	4819	ug/L	-4	10	
Chromium	A	197.07	191.42	5000	4947	ug/L	-1	10	
Cobalt	A	54.957	55.347	5000	4899	ug/L	-2	10	
Copper	A	196.86	191.13	5000	5119	ug/L	2	10	
Lead	A	50.232	54.666	5000	4863	ug/L	-3	10	
Manganese	A	575.32	555.01	5000	4868	ug/L	-3	10	
Molybdenum	A	45.741	43.453	5000	4904	ug/L	-2	10	
Nickel	A	97.778	96.202	5000	4923	ug/L	-2	10	
Selenium	A	14.835	14.285	5000	4958	ug/L	-1	10	
Silver	A	577.46	572.03	1000	954.3	ug/L	-5	10	
Thallium	A	10.941	11.147	5000	4949	ug/L	-1	10	
Tin	A	20.233	21.016	5000	4889	ug/L	-2	10	
Titanium	A	793.32	799.47	5000	5059	ug/L	1	10	
Vanadium	A	216.47	221.13	5000	4957	ug/L	-1	10	
Zinc	A	82.406	74.610	5000	4894	ug/L	-2	10	
Aluminum	R	0.7008	0.7019	20000	20660	ug/L	3	10	
Calcium	R	7.4305	6.7718	20000	20910	ug/L	5	10	
Iron	R	4.0978	3.9262	20000	20220	ug/L	1	10	
Magnesium	R	0.7889	0.8413	20000	22040	ug/L	10	10	
Potassium	R	2.7004	2.6438	20000	19330	ug/L	-3	10	
Sodium	R	319.97	323.06	20000	20310	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3484130	-4.59

98022120049

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120050
Cal : 98022120001
File : 011508r
Caldate : 15-JAN-2008
IDF : 1.0
Time : 15-JAN-2008 16:35

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.2964]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.05764]	2.000	0.04231	ug/L	!ib
Boron	A	[17.93]	100.0	3.849	ug/L	!ib
Cadmium	A	ND	5.000	0.1091	ug/L	
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	[1.737]	5.000	0.4140	ug/L	!ib
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[13.44]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[45.82]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3613381	-1.05

=warning ib=instrument blank

98022120050

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120062
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 17:31

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.542	5000	4514	ug/L	-10	10	
Arsenic	A	9.9302	10.584	5000	5273	ug/L	5	10	
Barium	A	99.050	100.71	5000	5167	ug/L	3	10	
Beryllium	A	4281.7	4496.5	500.0	528.2	ug/L	6	10	
Boron	A	196.03	213.72	5000	5287	ug/L	6	10	
Cadmium	A	206.10	201.01	5000	4813	ug/L	-4	10	
Chromium	A	197.07	192.18	5000	4967	ug/L	-1	10	
Cobalt	A	54.957	55.605	5000	4922	ug/L	-2	10	
Copper	A	196.86	191.87	5000	5138	ug/L	3	10	
Lead	A	50.232	55.003	5000	4893	ug/L	-2	10	
Manganese	A	575.32	553.10	5000	4852	ug/L	-3	10	
Molybdenum	A	45.741	46.459	5000	5244	ug/L	5	10	
Nickel	A	97.778	96.900	5000	4959	ug/L	-1	10	
Selenium	A	14.835	14.479	5000	5026	ug/L	1	10	
Silver	A	577.46	572.84	1000	955.6	ug/L	-4	10	
Thallium	A	10.941	11.189	5000	4968	ug/L	-1	10	
Tin	A	20.233	21.191	5000	4930	ug/L	-1	10	
Titanium	A	793.32	799.45	5000	5059	ug/L	1	10	
Vanadium	A	216.47	221.14	5000	4958	ug/L	-1	10	
Zinc	A	82.406	75.076	5000	4924	ug/L	-2	10	
Aluminum	R	0.7008	0.6922	20000	20370	ug/L	2	10	
Calcium	R	7.4305	6.7208	20000	20750	ug/L	4	10	
Iron	R	4.0978	3.9138	20000	20150	ug/L	1	10	
Magnesium	R	0.7889	0.8317	20000	21790	ug/L	9	10	
Potassium	R	2.7004	2.6102	20000	19090	ug/L	-5	10	
Sodium	R	319.97	311.65	20000	19600	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3485299	-4.56

98022120062

00143

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120063
Cal : 98022120001
File : 011508r
Caldate : 15-JAN-2008
IDF : 1.0
Time : 15-JAN-2008 17:36

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[2.278]	5.000	1.320	ug/L	!ib
Barium	A	[1.782]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2655]	2.000	0.04231	ug/L	!ib
Boron	A	[21.58]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.048]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.502]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.642]	5.000	0.3034	ug/L	!ib
Copper	A	[1.254]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[1.563]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.387]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.578]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.317]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.689]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[25.35]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[15.20]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3579193	-1.98

=warning ib=instrument blank

98022120063

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98022120068
Cal : 98022120001
Standards: S8086

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 18:11

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	526.9	ug/L	5	20	
Arsenic	A	500.0	560.2	ug/L	12	20	
Barium	A	500.0	545.6	ug/L	9	20	
Beryllium	A	500.0	561.7	ug/L	12	20	
Cadmium	A	1000	933.2	ug/L	-7	20	
Chromium	A	500.0	510.0	ug/L	2	20	
Cobalt	A	500.0	472.5	ug/L	-5	20	
Copper	A	500.0	572.5	ug/L	14	20	
Lead	A	1000	933.0	ug/L	-7	20	
Manganese	A	500.0	506.4	ug/L	1	20	
Molybdenum	A	500.0	545.2	ug/L	9	20	
Nickel	A	1000	927.1	ug/L	-7	20	
Selenium	A	500.0	532.5	ug/L	7	20	
Silver	A	1000	1095	ug/L	9	20	
Thallium	A	500.0	488.0	ug/L	-2	20	
Titanium	A	20000	20540	ug/L	3		
Vanadium	A	500.0	537.1	ug/L	7	20	
Zinc	A	1000	983.7	ug/L	-2	20	
Aluminum	R	500000	538900	ug/L	8		
Calcium	R	500000	511400	ug/L	2		
Iron	R	200000	189300	ug/L	-5		
Magnesium	R	500000	535300	ug/L	7		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	2959747	-18.95

98022120068

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120070
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 18:17

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.495	5000	4507	ug/L	-10	10	
Arsenic	A	9.9302	10.687	5000	5324	ug/L	6	10	
Barium	A	99.050	100.23	5000	5142	ug/L	3	10	
Beryllium	A	4281.7	4478.7	500.0	526.1	ug/L	5	10	
Boron	A	196.03	212.02	5000	5244	ug/L	5	10	
Cadmium	A	206.10	198.07	5000	4743	ug/L	-5	10	
Chromium	A	197.07	191.05	5000	4938	ug/L	-1	10	
Cobalt	A	54.957	56.079	5000	4964	ug/L	-1	10	
Copper	A	196.86	192.45	5000	5154	ug/L	3	10	
Lead	A	50.232	55.178	5000	4909	ug/L	-2	10	
Manganese	A	575.32	548.06	5000	4807	ug/L	-4	10	
Molybdenum	A	45.741	46.726	5000	5274	ug/L	5	10	
Nickel	A	97.778	96.110	5000	4918	ug/L	-2	10	
Selenium	A	14.835	14.483	5000	5027	ug/L	1	10	
Silver	A	577.46	572.42	1000	954.9	ug/L	-5	10	
Thallium	A	10.941	11.242	5000	4992	ug/L	0	10	
Tin	A	20.233	21.220	5000	4936	ug/L	-1	10	
Titanium	A	793.32	798.43	5000	5053	ug/L	1	10	
Vanadium	A	216.47	220.26	5000	4938	ug/L	-1	10	
Zinc	A	82.406	75.489	5000	4951	ug/L	-1	10	
Aluminum	R	0.7008	0.6901	20000	20310	ug/L	2	10	
Calcium	R	7.4305	6.6463	20000	20520	ug/L	3	10	
Iron	R	4.0978	3.7906	20000	19520	ug/L	-2	10	
Magnesium	R	0.7889	0.8281	20000	21690	ug/L	8	10	
Potassium	R	2.7004	2.5698	20000	18790	ug/L	-6	10	
Sodium	R	319.97	329.51	20000	20720	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3472162	-4.92

98022120070

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120071
Cal : 98022120001
File : 011508r
Caldate : 15-JAN-2008
IDF : 1.0
Time : 15-JAN-2008 18:21

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.829]	5.000	1.074	ug/L	!ib
Arsenic	A	[2.403]	5.000	1.320	ug/L	!ib
Barium	A	[1.945]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2399]	2.000	0.04231	ug/L	!ib
Boron	A	[25.99]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.027]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.596]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.734]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[1.618]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.522]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.481]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.006]	5.000	1.469	ug/L	!ib
Silver	A	[0.7562]	5.000	0.7459	ug/L	!ib
Thallium	A	[2.506]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[3.208]	10.00	1.018	ug/L	!ib
Vanadium	A	[2.033]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[80.24]	100.0	10.62	ug/L	!ib
Calcium	R	[64.88]	200.0	44.07	ug/L	!ib
Iron	R	[35.98]	100.0	6.086	ug/L	!ib
Magnesium	R	[71.98]	200.0	10.47	ug/L	!ib
Potassium	R	[129.9]	500.0	39.71	ug/L	!ib
Sodium	R	[470.4]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3623784	-0.76

=warning ib=instrument blank

98022120071

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120081
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 19:12

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.746	5000	4545	ug/L	-9	10	
Arsenic	A	9.9302	10.427	5000	5194	ug/L	4	10	
Barium	A	99.050	98.163	5000	5036	ug/L	1	10	
Beryllium	A	4281.7	4387.8	500.0	515.5	ug/L	3	10	
Boron	A	196.03	205.56	5000	5085	ug/L	2	10	
Cadmium	A	206.10	197.40	5000	4727	ug/L	-5	10	
Chromium	A	197.07	187.43	5000	4844	ug/L	-3	10	
Cobalt	A	54.957	54.530	5000	4827	ug/L	-3	10	
Copper	A	196.86	186.64	5000	4999	ug/L	0	10	
Lead	A	50.232	54.235	5000	4825	ug/L	-3	10	
Manganese	A	575.32	542.90	5000	4762	ug/L	-5	10	
Molybdenum	A	45.741	43.062	5000	4860	ug/L	-3	10	
Nickel	A	97.778	94.275	5000	4825	ug/L	-4	10	
Selenium	A	14.835	14.205	5000	4931	ug/L	-1	10	
Silver	A	577.46	569.92	1000	950.7	ug/L	-5	10	
Thallium	A	10.941	11.000	5000	4884	ug/L	-2	10	
Tin	A	20.233	20.780	5000	4834	ug/L	-3	10	
Titanium	A	793.32	782.17	5000	4950	ug/L	-1	10	
Vanadium	A	216.47	216.55	5000	4855	ug/L	-3	10	
Zinc	A	82.406	73.834	5000	4843	ug/L	-3	10	
Aluminum	R	0.7008	0.6598	20000	19420	ug/L	-3	10	
Calcium	R	7.4305	6.3827	20000	19710	ug/L	-1	10	
Iron	R	4.0978	3.6626	20000	18860	ug/L	-6	10	
Magnesium	R	0.7889	0.7810	20000	20460	ug/L	2	10	
Potassium	R	2.7004	2.4932	20000	18230	ug/L	-9	10	
Sodium	R	319.97	305.61	20000	19220	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3492311	-4.36

98022120081

: 00148

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120082
Cal : 98022120001

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 19:17

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[1.641]	5.000	1.320	ug/L	!ib
Barium	A	[2.302]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2777]	2.000	0.04231	ug/L	!ib
Boron	A	[23.94]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.385]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.897]	5.000	0.2448	ug/L	!ib
Cobalt	A	[2.216]	5.000	0.3034	ug/L	!ib
Copper	A	[1.618]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[1.992]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.932]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.824]	5.000	0.3660	ug/L	!ib
Selenium	A	[1.479]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.102]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.742]	10.00	1.018	ug/L	!ib
Vanadium	A	[2.141]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[30.33]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[16.84]	100.0	6.086	ug/L	!ib
Magnesium	R	[20.89]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	[25.16]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3668128	0.45

=warning ib=instrument blank

98022120082

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98022120084
Cal : 98022120001
Standards: S8086

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 19:35

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	509.8	ug/L	2	20	
Arsenic	A	500.0	547.9	ug/L	10	20	
Barium	A	500.0	526.7	ug/L	5	20	
Beryllium	A	500.0	550.1	ug/L	10	20	
Cadmium	A	1000	930.5	ug/L	-7	20	
Chromium	A	500.0	500.1	ug/L	0	20	
Cobalt	A	500.0	454.8	ug/L	-9	20	
Copper	A	500.0	551.4	ug/L	10	20	
Lead	A	1000	903.3	ug/L	-10	20	
Manganese	A	500.0	500.6	ug/L	0	20	
Molybdenum	A	500.0	526.7	ug/L	5	20	
Nickel	A	1000	913.7	ug/L	-9	20	
Selenium	A	500.0	522.5	ug/L	4	20	
Silver	A	1000	1075	ug/L	7	20	
Thallium	A	500.0	466.1	ug/L	-7	20	
Titanium	A	20000	20110	ug/L	1		
Vanadium	A	500.0	526.7	ug/L	5	20	
Zinc	A	1000	953.2	ug/L	-5	20	
Aluminum	R	500000	504800	ug/L	1		
Calcium	R	500000	475400	ug/L	-5		
Iron	R	200000	177800	ug/L	-11		
Magnesium	R	500000	497900	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3034513	-16.90

98022120084

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120085
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 19:39

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.636	5000	4528	ug/L	-9	10	
Arsenic	A	9.9302	10.503	5000	5232	ug/L	5	10	
Barium	A	99.050	99.137	5000	5086	ug/L	2	10	
Beryllium	A	4281.7	4425.5	500.0	519.9	ug/L	4	10	
Boron	A	196.03	205.22	5000	5076	ug/L	2	10	
Cadmium	A	206.10	197.78	5000	4736	ug/L	-5	10	
Chromium	A	197.07	189.14	5000	4888	ug/L	-2	10	
Cobalt	A	54.957	55.162	5000	4883	ug/L	-2	10	
Copper	A	196.86	189.55	5000	5076	ug/L	2	10	
Lead	A	50.232	54.569	5000	4855	ug/L	-3	10	
Manganese	A	575.32	546.97	5000	4798	ug/L	-4	10	
Molybdenum	A	45.741	43.284	5000	4885	ug/L	-2	10	
Nickel	A	97.778	94.917	5000	4857	ug/L	-3	10	
Selenium	A	14.835	14.316	5000	4969	ug/L	-1	10	
Silver	A	577.46	571.69	1000	953.7	ug/L	-5	10	
Thallium	A	10.941	11.071	5000	4916	ug/L	-2	10	
Tin	A	20.233	20.943	5000	4872	ug/L	-3	10	
Titanium	A	793.32	791.24	5000	5007	ug/L	0	10	
Vanadium	A	216.47	218.51	5000	4899	ug/L	-2	10	
Zinc	A	82.406	74.383	5000	4879	ug/L	-2	10	
Aluminum	R	0.7008	0.6803	20000	20020	ug/L	0	10	
Calcium	R	7.4305	6.5354	20000	20180	ug/L	1	10	
Iron	R	4.0978	3.7421	20000	19270	ug/L	-4	10	
Magnesium	R	0.7889	0.7997	20000	20950	ug/L	5	10	
Potassium	R	2.7004	2.5761	20000	18840	ug/L	-6	10	
Sodium	R	319.97	317.96	20000	19990	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3459946	-5.25

98022120085

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120086
Cal : 98022120001

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 19:44

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[1.899]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2580]	2.000	0.04231	ug/L	!ib
Boron	A	[15.76]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.9443]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.539]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.852]	5.000	0.3034	ug/L	!ib
Copper	A	[0.9362]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[1.641]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.309]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.772]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.777]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[3.374]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.700]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[65.26]	100.0	10.62	ug/L	!ib
Calcium	R	[44.93]	200.0	44.07	ug/L	!ib
Iron	R	[30.04]	100.0	6.086	ug/L	!ib
Magnesium	R	[76.36]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3596170	-1.52

=warning ib=instrument blank

98022120086

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120095
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 20:45

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.555	5000	4516	ug/L	-10	10	
Arsenic	A	9.9302	10.339	5000	5150	ug/L	3	10	
Barium	A	99.050	98.109	5000	5033	ug/L	1	10	
Beryllium	A	4281.7	4386.3	500.0	515.3	ug/L	3	10	
Boron	A	196.03	202.92	5000	5019	ug/L	0	10	
Cadmium	A	206.10	196.53	5000	4706	ug/L	-6	10	
Chromium	A	197.07	187.50	5000	4846	ug/L	-3	10	
Cobalt	A	54.957	54.104	5000	4789	ug/L	-4	10	
Copper	A	196.86	187.09	5000	5011	ug/L	0	10	
Lead	A	50.232	53.405	5000	4751	ug/L	-5	10	
Manganese	A	575.32	542.62	5000	4760	ug/L	-5	10	
Molybdenum	A	45.741	42.270	5000	4771	ug/L	-5	10	
Nickel	A	97.778	94.017	5000	4811	ug/L	-4	10	
Selenium	A	14.835	13.919	5000	4831	ug/L	-3	10	
Silver	A	577.46	563.42	1000	939.9	ug/L	-6	10	
Thallium	A	10.941	10.872	5000	4827	ug/L	-3	10	
Tin	A	20.233	20.505	5000	4770	ug/L	-5	10	
Titanium	A	793.32	782.65	5000	4953	ug/L	-1	10	
Vanadium	A	216.47	216.79	5000	4860	ug/L	-3	10	
Zinc	A	82.406	72.604	5000	4762	ug/L	-5	10	
Aluminum	R	0.7008	0.6902	20000	20310	ug/L	2	10	
Calcium	R	7.4305	6.5837	20000	20330	ug/L	2	10	
Iron	R	4.0978	3.7926	20000	19530	ug/L	-2	10	
Magnesium	R	0.7889	0.8072	20000	21140	ug/L	6	10	
Potassium	R	2.7004	2.5987	20000	19000	ug/L	-5	10	
Sodium	R	319.97	324.99	20000	20440	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3462734	-5.17

98022120095

:00153

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120096
Cal : 98022120001

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 20:50

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[1.251]	5.000	1.074	ug/L	!ib
Arsenic	A	[2.440]	5.000	1.320	ug/L	!ib
Barium	A	[2.180]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2455]	2.000	0.04231	ug/L	!ib
Boron	A	[12.12]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.8833]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.730]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.963]	5.000	0.3034	ug/L	!ib
Copper	A	[1.011]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[1.784]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.309]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.741]	5.000	0.3660	ug/L	!ib
Selenium	A	[1.796]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.491]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.898]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[34.56]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[16.78]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3586976	-1.77

=warning ib=instrument blank

98022120096

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98022120099
Cal : 98022120001
Standards: S8086

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 21:11

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	536.7	ug/L	7	20	
Arsenic	A	500.0	564.7	ug/L	13	20	
Barium	A	500.0	551.3	ug/L	10	20	
Beryllium	A	500.0	570.6	ug/L	14	20	
Cadmium	A	1000	960.8	ug/L	-4	20	
Chromium	A	500.0	519.4	ug/L	4	20	
Cobalt	A	500.0	475.9	ug/L	-5	20	
Copper	A	500.0	575.9	ug/L	15	20	
Lead	A	1000	940.9	ug/L	-6	20	
Manganese	A	500.0	519.6	ug/L	4	20	
Molybdenum	A	500.0	549.1	ug/L	10	20	
Nickel	A	1000	942.0	ug/L	-6	20	
Selenium	A	500.0	529.5	ug/L	6	20	
Silver	A	1000	1114	ug/L	11	20	
Thallium	A	500.0	499.3	ug/L	0	20	
Titanium	A	20000	20970	ug/L	5		
Vanadium	A	500.0	546.9	ug/L	9	20	
Zinc	A	1000	989.4	ug/L	-1	20	
Aluminum	R	500000	504500	ug/L	1		
Calcium	R	500000	470300	ug/L	-6		
Iron	R	200000	175600	ug/L	-12		
Magnesium	R	500000	495400	ug/L	-1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	2843417	-22.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120101
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 21:17

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.932	5000	4573	ug/L	-9	10	
Arsenic	A	9.9302	10.549	5000	5255	ug/L	5	10	
Barium	A	99.050	98.165	5000	5036	ug/L	1	10	
Beryllium	A	4281.7	4388.9	500.0	515.6	ug/L	3	10	
Boron	A	196.03	208.40	5000	5155	ug/L	3	10	
Cadmium	A	206.10	197.13	5000	4721	ug/L	-6	10	
Chromium	A	197.07	187.54	5000	4847	ug/L	-3	10	
Cobalt	A	54.957	55.228	5000	4889	ug/L	-2	10	
Copper	A	196.86	186.72	5000	5001	ug/L	0	10	
Lead	A	50.232	54.054	5000	4809	ug/L	-4	10	
Manganese	A	575.32	542.97	5000	4763	ug/L	-5	10	
Molybdenum	A	45.741	45.473	5000	5132	ug/L	3	10	
Nickel	A	97.778	94.241	5000	4823	ug/L	-4	10	
Selenium	A	14.835	14.296	5000	4962	ug/L	-1	10	
Silver	A	577.46	575.60	1000	960.2	ug/L	-4	10	
Thallium	A	10.941	11.055	5000	4909	ug/L	-2	10	
Tin	A	20.233	21.009	5000	4887	ug/L	-2	10	
Titanium	A	793.32	783.72	5000	4960	ug/L	-1	10	
Vanadium	A	216.47	216.57	5000	4855	ug/L	-3	10	
Zinc	A	82.406	74.321	5000	4875	ug/L	-3	10	
Aluminum	R	0.7008	0.6772	20000	19930	ug/L	0	10	
Calcium	R	7.4305	6.5320	20000	20170	ug/L	1	10	
Iron	R	4.0978	3.7443	20000	19280	ug/L	-4	10	
Magnesium	R	0.7889	0.8021	20000	21010	ug/L	5	10	
Potassium	R	2.7004	2.5487	20000	18640	ug/L	-7	10	
Sodium	R	319.97	307.63	20000	19340	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3432351	-6.01

98022120101

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120102
Cal : 98022120001
File : 011508r
Caldate : 15-JAN-2008
IDF : 1.0
Time : 15-JAN-2008 21:21

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[3.155]	5.000	1.320	ug/L	!ib
Barium	A	[2.118]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2629]	2.000	0.04231	ug/L	!ib
Boron	A	[20.84]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.004]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.705]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.844]	5.000	0.3034	ug/L	!ib
Copper	A	[1.308]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[1.745]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.956]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.668]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.066]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[3.203]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.889]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[60.66]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[28.26]	100.0	6.086	ug/L	!ib
Magnesium	R	[55.02]	200.0	10.47	ug/L	!ib
Potassium	R	[64.49]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3599323	-1.43

=warning ib=instrument blank

98022120102

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120114
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 15-JAN-2008 23:21

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.588	5000	4521	ug/L	-10	10	
Arsenic	A	9.9302	10.440	5000	5201	ug/L	4	10	
Barium	A	99.050	98.425	5000	5050	ug/L	1	10	
Beryllium	A	4281.7	4398.6	500.0	516.7	ug/L	3	10	
Boron	A	196.03	208.91	5000	5168	ug/L	3	10	
Cadmium	A	206.10	197.42	5000	4728	ug/L	-5	10	
Chromium	A	197.07	188.10	5000	4861	ug/L	-3	10	
Cobalt	A	54.957	54.616	5000	4834	ug/L	-3	10	
Copper	A	196.86	188.19	5000	5040	ug/L	1	10	
Lead	A	50.232	53.848	5000	4791	ug/L	-4	10	
Manganese	A	575.32	545.46	5000	4785	ug/L	-4	10	
Molybdenum	A	45.741	45.527	5000	5138	ug/L	3	10	
Nickel	A	97.778	94.503	5000	4836	ug/L	-3	10	
Selenium	A	14.835	14.126	5000	4903	ug/L	-2	10	
Silver	A	577.46	569.88	1000	950.7	ug/L	-5	10	
Thallium	A	10.941	11.005	5000	4886	ug/L	-2	10	
Tin	A	20.233	20.842	5000	4848	ug/L	-3	10	
Titanium	A	793.32	786.78	5000	4979	ug/L	0	10	
Vanadium	A	216.47	217.15	5000	4868	ug/L	-3	10	
Zinc	A	82.406	73.364	5000	4812	ug/L	-4	10	
Aluminum	R	0.7008	0.6838	20000	20120	ug/L	1	10	
Calcium	R	7.4305	6.5294	20000	20160	ug/L	1	10	
Iron	R	4.0978	3.7707	20000	19420	ug/L	-3	10	
Magnesium	R	0.7889	0.7990	20000	20930	ug/L	5	10	
Potassium	R	2.7004	2.5517	20000	18660	ug/L	-7	10	
Sodium	R	319.97	312.48	20000	19650	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3440056	-5.80

98022120114

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120116
Cal : 98022120001
File : 011508r
Caldate : 15-JAN-2008
IDF : 1.0
Time : 15-JAN-2008 23:29

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.9273]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1098]	2.000	0.04231	ug/L	!ib
Boron	A	[12.11]	100.0	3.849	ug/L	!ib
Cadmium	A	ND	5.000	0.1091	ug/L	
Chromium	A	[0.6716]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.8451]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[0.8843]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[1.773]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.6434]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.377]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[18.54]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[22.42]	100.0	6.086	ug/L	!ib
Magnesium	R	[10.82]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3582346	-1.90

!=warning ib=instrument blank

98022120116

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120127
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 00:14

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	30.767	5000	4701	ug/L	-6	10	
Arsenic	A	9.9302	10.885	5000	5423	ug/L	8	10	
Barium	A	99.050	100.70	5000	5166	ug/L	3	10	
Beryllium	A	4281.7	4497.2	500.0	528.3	ug/L	6	10	
Boron	A	196.03	206.98	5000	5120	ug/L	2	10	
Cadmium	A	206.10	200.58	5000	4803	ug/L	-4	10	
Chromium	A	197.07	192.41	5000	4973	ug/L	-1	10	
Cobalt	A	54.957	57.014	5000	5047	ug/L	1	10	
Copper	A	196.86	192.93	5000	5167	ug/L	3	10	
Lead	A	50.232	56.212	5000	5001	ug/L	0	10	
Manganese	A	575.32	556.95	5000	4885	ug/L	-2	10	
Molybdenum	A	45.741	45.178	5000	5099	ug/L	2	10	
Nickel	A	97.778	96.543	5000	4941	ug/L	-1	10	
Selenium	A	14.835	14.664	5000	5090	ug/L	2	10	
Silver	A	577.46	594.01	1000	990.9	ug/L	-1	10	
Thallium	A	10.941	11.434	5000	5077	ug/L	2	10	
Tin	A	20.233	21.678	5000	5043	ug/L	1	10	
Titanium	A	793.32	804.76	5000	5093	ug/L	2	10	
Vanadium	A	216.47	222.50	5000	4988	ug/L	0	10	
Zinc	A	82.406	76.620	5000	5026	ug/L	1	10	
Aluminum	R	0.7008	0.7040	20000	20720	ug/L	4	10	
Calcium	R	7.4305	6.7005	20000	20690	ug/L	3	10	
Iron	R	4.0978	3.8867	20000	20010	ug/L	0	10	
Magnesium	R	0.7889	0.8192	20000	21460	ug/L	7	10	
Potassium	R	2.7004	2.6529	20000	19400	ug/L	-3	10	
Sodium	R	319.97	327.85	20000	20620	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3314234	-9.24

98022120127

00160

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120128
Cal : 98022120001
File : 011508r
Caldate : 15-JAN-2008
IDF : 1.0
Time : 16-JAN-2008 00:18

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	[1.425]	5.000	1.320	ug/L	!ib
Barium	A	[2.661]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2707]	2.000	0.04231	ug/L	!ib
Boron	A	[12.25]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.358]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.905]	5.000	0.2448	ug/L	!ib
Cobalt	A	[2.050]	5.000	0.3034	ug/L	!ib
Copper	A	[2.043]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[2.814]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.694]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.942]	5.000	0.3660	ug/L	!ib
Selenium	A	[1.501]	5.000	1.469	ug/L	!ib
Silver	A	[0.7664]	5.000	0.7459	ug/L	!ib
Thallium	A	[1.906]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[3.499]	10.00	1.018	ug/L	!ib
Vanadium	A	[2.216]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[72.85]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[93.23]	100.0	6.086	ug/L	!ib
Magnesium	R	[33.28]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3593316	-1.60

!=warning ib=instrument blank

98022120128

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120139
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 01:07

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	30.425	5000	4649	ug/L	-7	10	
Arsenic	A	9.9302	10.643	5000	5302	ug/L	6	10	
Barium	A	99.050	99.149	5000	5087	ug/L	2	10	
Beryllium	A	4281.7	4407.5	500.0	517.8	ug/L	4	10	
Boron	A	196.03	209.72	5000	5187	ug/L	4	10	
Cadmium	A	206.10	196.56	5000	4707	ug/L	-6	10	
Chromium	A	197.07	189.34	5000	4894	ug/L	-2	10	
Cobalt	A	54.957	55.653	5000	4926	ug/L	-1	10	
Copper	A	196.86	190.27	5000	5096	ug/L	2	10	
Lead	A	50.232	54.808	5000	4876	ug/L	-2	10	
Manganese	A	575.32	543.30	5000	4766	ug/L	-5	10	
Molybdenum	A	45.741	43.832	5000	4947	ug/L	-1	10	
Nickel	A	97.778	94.868	5000	4855	ug/L	-3	10	
Selenium	A	14.835	14.416	5000	5004	ug/L	0	10	
Silver	A	577.46	583.54	1000	973.5	ug/L	-3	10	
Thallium	A	10.941	11.145	5000	4949	ug/L	-1	10	
Tin	A	20.233	20.547	5000	4780	ug/L	-4	10	
Titanium	A	793.32	784.10	5000	4962	ug/L	-1	10	
Vanadium	A	216.47	219.08	5000	4912	ug/L	-2	10	
Zinc	A	82.406	74.589	5000	4892	ug/L	-2	10	
Aluminum	R	0.7008	0.7170	20000	21100	ug/L	6	10	
Calcium	R	7.4305	6.8305	20000	21090	ug/L	5	10	
Iron	R	4.0978	3.9532	20000	20360	ug/L	2	10	
Magnesium	R	0.7889	0.8312	20000	21770	ug/L	9	10	
Potassium	R	2.7004	2.6956	20000	19710	ug/L	-1	10	
Sodium	R	319.97	329.45	20000	20720	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3329477	-8.82

98022120139

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120141
Cal : 98022120001
File : 011508r
Caldate : 15-JAN-2008
IDF : 1.0
Time : 16-JAN-2008 01:14

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	ND	5.000	1.074	ug/L	
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[1.078]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1658]	2.000	0.04231	ug/L	!ib
Boron	A	ND	100.0	3.849	ug/L	
Cadmium	A	[0.3124]	5.000	0.1091	ug/L	!ib
Chromium	A	[0.9852]	5.000	0.2448	ug/L	!ib
Cobalt	A	[0.9017]	5.000	0.3034	ug/L	!ib
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[1.489]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.002]	5.000	0.4140	ug/L	!ib
Nickel	A	[0.8738]	5.000	0.3660	ug/L	!ib
Selenium	A	ND	5.000	1.469	ug/L	
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.765]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.035]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[20.00]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[34.77]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3532347	-3.27

!=warning ib=instrument blank

98022120141

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98022120149
Cal : 98022120001
Standards: S8086

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 01:45

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	493.1	ug/L	-1	20	
Arsenic	A	500.0	526.6	ug/L	5	20	
Barium	A	500.0	517.0	ug/L	3	20	
Beryllium	A	500.0	531.9	ug/L	6	20	
Cadmium	A	1000	891.4	ug/L	-11	20	
Chromium	A	500.0	484.4	ug/L	-3	20	
Cobalt	A	500.0	448.4	ug/L	-10	20	
Copper	A	500.0	538.0	ug/L	8	20	
Lead	A	1000	879.3	ug/L	-12	20	
Manganese	A	500.0	481.2	ug/L	-4	20	
Molybdenum	A	500.0	513.0	ug/L	3	20	
Nickel	A	1000	879.5	ug/L	-12	20	
Selenium	A	500.0	494.8	ug/L	-1	20	
Silver	A	1000	1043	ug/L	4	20	
Thallium	A	500.0	434.4	ug/L	-13	20	
Titanium	A	20000	19770	ug/L	-1		
Vanadium	A	500.0	509.6	ug/L	2	20	
Zinc	A	1000	926.8	ug/L	-7	20	
Aluminum	R	500000	625900	ug/L	25		
Calcium	R	500000	575600	ug/L	15		
Iron	R	200000	216700	ug/L	8		
Magnesium	R	500000	614100	ug/L	23		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	2955966	-19.05

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120153
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 01:58

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.302	5000	4477	ug/L	-10	10	
Arsenic	A	9.9302	10.481	5000	5222	ug/L	4	10	
Barium	A	99.050	96.954	5000	4974	ug/L	-1	10	
Beryllium	A	4281.7	4323.0	5000	507.9	ug/L	2	10	
Boron	A	196.03	207.72	5000	5138	ug/L	3	10	
Cadmium	A	206.10	191.23	5000	4579	ug/L	-8	10	
Chromium	A	197.07	185.10	5000	4784	ug/L	-4	10	
Cobalt	A	54.957	55.094	5000	4877	ug/L	-2	10	
Copper	A	196.86	186.99	5000	5008	ug/L	0	10	
Lead	A	50.232	54.370	5000	4837	ug/L	-3	10	
Manganese	A	575.32	530.84	5000	4656	ug/L	-7	10	
Molybdenum	A	45.741	45.840	5000	5174	ug/L	3	10	
Nickel	A	97.778	92.664	5000	4742	ug/L	-5	10	
Selenium	A	14.835	14.271	5000	4953	ug/L	-1	10	
Silver	A	577.46	573.77	1000	957.2	ug/L	-4	10	
Thallium	A	10.941	11.043	5000	4903	ug/L	-2	10	
Tin	A	20.233	20.423	5000	4751	ug/L	-5	10	
Titanium	A	793.32	772.79	5000	4890	ug/L	-2	10	
Vanadium	A	216.47	213.44	5000	4785	ug/L	-4	10	
Zinc	A	82.406	73.994	5000	4853	ug/L	-3	10	
Aluminum	R	0.7008	0.6599	20000	19420	ug/L	-3	10	
Calcium	R	7.4305	6.2675	20000	19350	ug/L	-3	10	
Iron	R	4.0978	3.6499	20000	18790	ug/L	-6	10	
Magnesium	R	0.7889	0.7731	20000	20250	ug/L	1	10	
Potassium	R	2.7004	2.4801	20000	18140	ug/L	-9	10	
Sodium	R	319.97	300.63	20000	18900	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3388101	-7.22

98022120153

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120154
Cal : 98022120001
File : 011508r
Caldate : 15-JAN-2008
IDF : 1.0
Time : 16-JAN-2008 02:02

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.369]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[2.524]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.2841]	2.000	0.04231	ug/L	!ib
Boron	A	[14.74]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.874]	5.000	0.1091	ug/L	!ib
Chromium	A	[2.025]	5.000	0.2448	ug/L	!ib
Cobalt	A	[2.190]	5.000	0.3034	ug/L	!ib
Copper	A	[1.718]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[2.442]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[4.885]	5.000	0.4140	ug/L	!ib
Nickel	A	[2.121]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.650]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.821]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[3.003]	10.00	1.018	ug/L	!ib
Vanadium	A	[2.159]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[39.07]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[30.60]	100.0	6.086	ug/L	!ib
Magnesium	R	[28.08]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3543319	-2.97

!=warning ib=instrument blank

98022120154

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98022120163
Cal : 98022120001
Standards: S8086

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 02:31

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	490.3	ug/L	-2	20	
Arsenic	A	500.0	523.2	ug/L	5	20	
Barium	A	500.0	515.3	ug/L	3	20	
Beryllium	A	500.0	533.9	ug/L	7	20	
Cadmium	A	1000	892.4	ug/L	-11	20	
Chromium	A	500.0	486.2	ug/L	-3	20	
Cobalt	A	500.0	445.4	ug/L	-11	20	
Copper	A	500.0	540.8	ug/L	8	20	
Lead	A	1000	880.8	ug/L	-12	20	
Manganese	A	500.0	485.7	ug/L	-3	20	
Molybdenum	A	500.0	512.9	ug/L	3	20	
Nickel	A	1000	883.9	ug/L	-12	20	
Selenium	A	500.0	499.7	ug/L	0	20	
Silver	A	1000	1049	ug/L	5	20	
Thallium	A	500.0	437.0	ug/L	-13	20	
Titanium	A	20000	19560	ug/L	-2		
Vanadium	A	500.0	511.0	ug/L	2	20	
Zinc	A	1000	922.4	ug/L	-8	20	
Aluminum	R	500000	513300	ug/L	3		
Calcium	R	500000	470900	ug/L	-6		
Iron	R	200000	177900	ug/L	-11		
Magnesium	R	500000	501100	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	2952538	-19.15

98022120163

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98022120165
Cal : 98022120001
Standards: S7983

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 02:37

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.948	29.182	5000	4459	ug/L	**-11**	10	c- ***
Arsenic	A	9.9302	10.370	5000	5166	ug/L	3	10	
Barium	A	99.050	97.257	5000	4990	ug/L	0	10	
Beryllium	A	4281.7	4343.9	500.0	510.3	ug/L	2	10	
Boron	A	196.03	208.56	5000	5159	ug/L	3	10	
Cadmium	A	206.10	193.07	5000	4623	ug/L	-8	10	
Chromium	A	197.07	185.90	5000	4805	ug/L	-4	10	
Cobalt	A	54.957	54.568	5000	4830	ug/L	-3	10	
Copper	A	196.86	186.85	5000	5004	ug/L	0	10	
Lead	A	50.232	53.789	5000	4786	ug/L	-4	10	
Manganese	A	575.32	534.96	5000	4692	ug/L	-6	10	
Molybdenum	A	45.741	45.566	5000	5143	ug/L	3	10	
Nickel	A	97.778	93.089	5000	4764	ug/L	-5	10	
Selenium	A	14.835	14.152	5000	4912	ug/L	-2	10	
Silver	A	577.46	568.97	1000	949.2	ug/L	-5	10	
Thallium	A	10.941	10.951	5000	4862	ug/L	-3	10	
Tin	A	20.233	20.337	5000	4731	ug/L	-5	10	
Titanium	A	793.32	777.19	5000	4918	ug/L	-2	10	
Vanadium	A	216.47	214.47	5000	4808	ug/L	-4	10	
Zinc	A	82.406	73.390	5000	4814	ug/L	-4	10	
Aluminum	R	0.7008	0.6918	20000	20360	ug/L	2	10	
Calcium	R	7.4305	6.5359	20000	20180	ug/L	1	10	
Iron	R	4.0978	3.7926	20000	19530	ug/L	-2	10	
Magnesium	R	0.7889	0.8076	20000	21150	ug/L	6	10	
Potassium	R	2.7004	2.5494	20000	18640	ug/L	-7	10	
Sodium	R	319.97	310.28	20000	19510	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3399871	-6.90

-=low bias c=CCV

98022120165

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98022120166
Cal : 98022120001

File : 011508r
Caldate : 15-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 02:41

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.281]	5.000	1.074	ug/L	!ib
Arsenic	A	[2.166]	5.000	1.320	ug/L	!ib
Barium	A	[2.590]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.3087]	2.000	0.04231	ug/L	!ib
Boron	A	[15.93]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.955]	5.000	0.1091	ug/L	!ib
Chromium	A	[2.067]	5.000	0.2448	ug/L	!ib
Cobalt	A	[2.226]	5.000	0.3034	ug/L	!ib
Copper	A	[1.819]	5.000	0.8535	ug/L	!ib
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	[2.775]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[4.913]	5.000	0.4140	ug/L	!ib
Nickel	A	[2.238]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.824]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.458]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[4.851]	10.00	1.018	ug/L	!ib
Vanadium	A	[2.346]	5.000	1.034	ug/L	!ib
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	[93.26]	100.0	10.62	ug/L	!ib
Calcium	R	[67.93]	200.0	44.07	ug/L	!ib
Iron	R	[59.99]	100.0	6.086	ug/L	!ib
Magnesium	R	[83.76]	200.0	10.47	ug/L	!ib
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3651678	3562889	-2.43

!=warning ib=instrument blank

98022120166

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98023560 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 16-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	011608r	ICALBLK				16-JAN-2008 08:40	1.0	1.0					
002	011608r	ICAL	CRIM08			16-JAN-2008 08:45	1.0	1.0				1	
003	011608r	ICAL	CS100			16-JAN-2008 08:49	1.0	1.0				2	
004	011608r	ICAL	CS1K			16-JAN-2008 08:53	1.0	1.0				3	
005	011608r	ICAL	CS10K			16-JAN-2008 08:56	1.0	1.0				4	
006	011608r	ICAL	CS100K			16-JAN-2008 09:01	1.0	1.0				5	
007	011608r	ICV				16-JAN-2008 09:08	1.0	1.0			5000	6	
008	011608r	ICB				16-JAN-2008 09:25	1.0	1.0			5000		
009	011608r	ICSA				16-JAN-2008 09:30	1.0	1.0			5000	7	10:AL=505963
010	011608r	ICSAB				16-JAN-2008 09:35	1.0	1.0			5000	8	5:AL=515367
011	011608r	SAMPLE	200545-008	133789	Soil	16-JAN-2008 09:40	1.0	49.02	1		5000		5:FE=573333
012	011608r	SAMPLE	200545-008	133789	Soil	16-JAN-2008 09:45	10.0	49.02			5000		
013	011608r	SAMPLE	200545-011	133789	Soil	16-JAN-2008 09:48	1.0	45.45			5000		3:FE=420791
014	011608r	SAMPLE	200545-012	133789	Soil	16-JAN-2008 09:51	10.0	49.02	1		5000		
015	011608r	SAMPLE	200545-013	133789	Soil	16-JAN-2008 09:54	1.0	45.45			5000		4:FE=398224
016	011608r	X	RINSE			16-JAN-2008 09:58	1.0						
017	011608r	BLANK	QC424107	133790	Soil	16-JAN-2008 10:02	1.0	50.0	1		5000		
018	011608r	BS	QC424108	133790	Soil	16-JAN-2008 10:07	1.0	50.0			5000		
019	011608r	CCV				16-JAN-2008 10:09	1.0	1.0			5000	9	
020	011608r	CCB				16-JAN-2008 10:14	1.0	1.0			5000		
021	011608r	BSD	QC424109	133790	Soil	16-JAN-2008 10:19	1.0	50.0			5000		
022	011608r	MSS	200520-005	133790	Soil	16-JAN-2008 10:21	1.0	48.08	4		5000		4:AL=363107
023	011608r	MS	QC424110	133790	Soil	16-JAN-2008 10:25	1.0	45.05	1	3	5000		5:AL=601789
024	011608r	MSD	QC424111	133790	Soil	16-JAN-2008 10:27	1.0	47.62		3	5000		4:AL=474996
025	011608r	SER	QC424112	133790	Soil	16-JAN-2008 10:30	5.0	48.08		6	5000		
026	011608r	PDS	QC424113	133790	Soil	16-JAN-2008 10:33	1.0	48.08			5000	10 11	4:AL=383799
027	011608r	SAMPLE	200527-001	133790	Soil	16-JAN-2008 10:36	1.0	46.73	1		5000		6:CA=859045
028	011608r	SAMPLE	200542-001	133790	Soil	16-JAN-2008 10:39	1.0	50.0	3		5000		3:FE=259296
029	011608r	MSS	200520-005	133790	Soil	16-JAN-2008 10:42	10.0	48.08			5000		
030	011608r	SER	QC424112	133790	Soil	16-JAN-2008 10:46	50.0	48.08		5	5000		
031	011608r	X				16-JAN-2008 10:49	1.0					9	

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98023560 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9 Begun: 16-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	011608r	ICALBLK				16-JAN-2008 08:40	1.0	1.0					
002	011608r	ICAL	CRIM08			16-JAN-2008 08:45	1.0	1.0				1	
003	011608r	ICAL	CS100			16-JAN-2008 08:49	1.0	1.0				2	
004	011608r	ICAL	CS1K			16-JAN-2008 08:53	1.0	1.0				3	
005	011608r	ICAL	CS10K			16-JAN-2008 08:56	1.0	1.0				4	
006	011608r	ICAL	CS100K			16-JAN-2008 09:01	1.0	1.0				5	
007	011608r	ICV				16-JAN-2008 09:08	1.0	1.0			5000	6	
008	011608r	ICB				16-JAN-2008 09:25	1.0	1.0			5000		
009	011608r	ICSA				16-JAN-2008 09:30	1.0	1.0			5000	7	10:AL=505963
010	011608r	ICSAB				16-JAN-2008 09:35	1.0	1.0			5000	8	5:AL=515367
011	011608r	SAMPLE	200545-008	133789	Soil	16-JAN-2008 09:40	1.0	49.02	1		5000		5:FE=573333
012	011608r	SAMPLE	200545-008	133789	Soil	16-JAN-2008 09:45	10.0	49.02			5000		
013	011608r	SAMPLE	200545-011	133789	Soil	16-JAN-2008 09:48	1.0	45.45			5000		3:FE=420791
014	011608r	SAMPLE	200545-012	133789	Soil	16-JAN-2008 09:51	10.0	49.02	1		5000		
015	011608r	SAMPLE	200545-013	133789	Soil	16-JAN-2008 09:54	1.0	45.45			5000		4:FE=398224
016	011608r	X	RINSE			16-JAN-2008 09:58	1.0						
017	011608r	BLANK	QC424107	133790	Soil	16-JAN-2008 10:02	1.0	50.0	1		5000		
018	011608r	BS	QC424108	133790	Soil	16-JAN-2008 10:07	1.0	50.0			5000		
019	011608r	CCV				16-JAN-2008 10:09	1.0	1.0			5000	9	
020	011608r	CCB				16-JAN-2008 10:14	1.0	1.0			5000		
021	011608r	BSD	QC424109	133790	Soil	16-JAN-2008 10:19	1.0	50.0			5000		
022	011608r	MSS	200520-005	133790	Soil	16-JAN-2008 10:21	1.0	48.08	4		5000		4:AL=363107
023	011608r	MS	QC424110	133790	Soil	16-JAN-2008 10:25	1.0	45.05	1	3	5000		5:AL=601789
024	011608r	MSD	QC424111	133790	Soil	16-JAN-2008 10:27	1.0	47.62		3	5000		4:AL=474996
025	011608r	SER	QC424112	133790	Soil	16-JAN-2008 10:30	5.0	48.08		6	5000		
026	011608r	PDS	QC424113	133790	Soil	16-JAN-2008 10:33	1.0	48.08			5000	10 11	4:AL=383799
027	011608r	SAMPLE	200527-001	133790	Soil	16-JAN-2008 10:36	1.0	46.73	1		5000		6:CA=859045
028	011608r	SAMPLE	200542-001	133790	Soil	16-JAN-2008 10:39	1.0	50.0	3		5000		3:FE=259296
029	011608r	MSS	200520-005	133790	Soil	16-JAN-2008 10:42	10.0	48.08			5000		
030	011608r	SER	QC424112	133790	Soil	16-JAN-2008 10:46	50.0	48.08		5	5000		
031	011608r	X				16-JAN-2008 10:49	1.0					9	

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98023560 Instrument: MET09 PE ICP MET09
Analytical Method: EPA 6010B SOP Version: 6010B_rv9

Begun: 16-JAN-2008

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	011608r	CCV				16-JAN-2008 10:51	1.0	1.0		5000	9	
033	011608r	CCB				16-JAN-2008 10:55	1.0	1.0		5000		
034	011608r	PDS	QC424113	133790	Soil	16-JAN-2008 11:00	10.0	48.08	3	5000	10 11	
035	011608r	SAMPLE	200542-001	133790	Soil	16-JAN-2008 11:03	10.0	50.0	1	5000		
036	011608r	SAMPLE	200504-003	133757	TCLP L	16-JAN-2008 11:06	10.0	1.0		5000		1:NA=150775
037	011608r	SAMPLE	200504-013	133757	TCLP L	16-JAN-2008 11:11	10.0	1.0		5000		1:NA=159346
038	011608r	SAMPLE	200504-014	133757	TCLP L	16-JAN-2008 11:15	10.0	1.0		5000		1:NA=146618
039	011608r	SAMPLE	200504-015	133757	TCLP L	16-JAN-2008 11:20	10.0	1.0		5000		1:NA=152938
040	011608r	ICSAB				16-JAN-2008 11:24	1.0	1.0		5000	8	5:MG=495471
041	011608r	X				16-JAN-2008 11:29	1.0				9	
042	011608r	X				16-JAN-2008 11:30	1.0				9	
043	011608r	CCV				16-JAN-2008 11:33	1.0	1.0		5000	9	
044	011608r	CCB				16-JAN-2008 11:37	1.0	1.0		5000		

Stds used: 1=S7555 2=S7713 3=S7712 4=S7714 5=S7674 6=S7982 7=S7557 8=S8086 9=S7983 10=S6918 11=S6919

Analyst: _____ Date: 1/16/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 98023560001
Units : ug/L

Date : 16-JAN-2008 08:40
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	011608r	98023560002	CRIM08	16-JAN-2008 08:45	S7555
L2	011608r	98023560003	CS100	16-JAN-2008 08:49	S7713
L3	011608r	98023560004	CS1K	16-JAN-2008 08:53	S7712
L4	011608r	98023560005	CS10K	16-JAN-2008 08:56	S7714
L5	011608r	98023560006	CS100K	16-JAN-2008 09:01	S7674

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	30.597	27.399	27.049	27.681		LOR0	0.00000	0.03613		28.181	1.000	0.995	
Arsenic	A	10.380	11.020	11.057	10.808		LOR0	0.00000	0.09250		10.817	1.000	0.995	
Barium	A	120.70	104.05	104.25	102.80		LOR0	0.00000	0.00973		107.95	1.000	0.995	
Beryllium	A	4605.5	4437.5	4451.5			LOR0	0.00000	2.25E-4		4498.1	1.000	0.995	
Boron	A	213.94		208.47	214.65		LOR0	0.00000	0.00466		212.35	1.000	0.995	
Cadmium	A	217.98	213.53	212.11	206.93		LOR0	0.00000	0.00483		212.64	1.000	0.995	
Chromium	A	216.85	202.18	197.58	196.32		LOR0	0.00000	0.00509		203.23	1.000	0.995	
Cobalt	A	62.964	58.861	61.495	60.536		LOR0	0.00000	0.01652		60.964	1.000	0.995	
Copper	A	255.15	200.44	202.53	200.57		LOR0	0.00000	0.00499		214.67	1.000	0.995	
Lead	A	55.125	58.942	59.539	58.633		LOR0	0.00000	0.01705		58.060	1.000	0.995	
Manganese	A	634.05	604.94	595.64	571.76		LOR0	0.00000	0.00175		601.60	1.000	0.995	
Molybdenum	A	50.759	48.296	47.710	45.768		LOR0	0.00000	0.02184		48.133	1.000	0.995	
Nickel	A	119.14	101.10	101.27	100.61		LOR0	0.00000	0.00994		105.53	1.000	0.995	
Selenium	A	15.444	15.383	15.056	15.534		LOR0	0.00000	0.06440		15.354	1.000	0.995	
Silver	A	514.74	592.49	599.11	602.49		LOR0	0.00000	0.00166		577.21	1.000	0.995	
Thallium	A	12.658	12.239	12.315	12.138		LOR0	0.00000	0.08237		12.338	1.000	0.995	
Tin	A	21.786	20.636	20.913	22.381		LOR0	0.00000	0.04471		21.429	1.000	0.995	
Titanium	A	888.50	846.46	833.83	804.72		LOR0	0.00000	0.00124		843.38	1.000	0.995	
Vanadium	A	209.16	222.98	219.76	224.23		LOR0	0.00000	0.00446		219.03	1.000	0.995	
Zinc	A	140.84	92.067	82.033	81.272		LOR0	0.00000	0.01230		99.052	1.000	0.995	
Aluminum	R	0.8372		0.6827	0.7061	0.6676	LOR0	0.00000	1.49715		0.7234	1.000	0.995	
Calcium	R	12.643		7.6289	6.9291	6.1442	LOR0	0.00000	0.16254		8.3363	1.000	0.995	
Iron	R	4.5170		3.8474	3.9194	3.5158	LOR0	0.00000	0.28411		3.9499	1.000	0.995	
Magnesium	R	0.8379		0.8114	0.8215	0.7452	LOR0	0.00000	1.34052		0.8040	1.000	0.995	
Potassium	R	3.0020		2.8791	2.6870	2.5250	LOR0	0.00000	0.39578		2.7733	1.000	0.995	
Sodium	R	339.09		333.79	336.31	309.02	LOR0	0.00000	0.00323		329.55	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	11	100.0	-1	1000	-2	10000	0		
Arsenic	A	5.000	-4	100.0	2	1000	2	10000	0		
Barium	A	5.000	17	100.0	1	1000	1	10000	0		
Beryllium	A	2.000	3	100.0	0	1000	0				
Boron	A	100.0	0			1000	-3	10000	0		
Cadmium	A	5.000	5	100.0	3	1000	2	10000	0		
Chromium	A	5.000	10	100.0	3	1000	1	10000	0		
Cobalt	A	5.000	4	100.0	-3	1000	2	10000	0		
Copper	A	5.000	27	100.0	0	1000	1	10000	0		
Lead	A	3.000	-6	100.0	1	1000	2	10000	0		
Manganese	A	5.000	11	100.0	6	1000	4	10000	0		
Molybdenum	A	5.000	11	100.0	5	1000	4	10000	0		
Nickel	A	5.000	18	100.0	0	1000	1	10000	0		
Selenium	A	5.000	-1	100.0	-1	1000	-3	10000	0		
Silver	A	5.000	-14	100.0	-2	1000	0	2000	0		
Thallium	A	5.000	4	100.0	1	1000	1	10000	0		
Tin	A	40.00	-3	100.0	-8	1000	-6	10000	0		
Titanium	A	10.00	10	100.0	5	1000	4	10000	0		
Vanadium	A	5.000	-7	100.0	-1	1000	-2	10000	0		
Zinc	A	20.00	73	100.0	13	1000	1	10000	0		
Aluminum	R	100.0	25			1000	2	10000	6	100000	0
Calcium	R	200.0	106			1000	24	10000	13	100000	0
Iron	R	100.0	28			1000	9	10000	11	100000	0
Magnesium	R	200.0	12			1000	9	10000	10	100000	0
Potassium	R	500.0	19			1000	14	10000	6	100000	0
Sodium	R	500.0	10			1000	8	10000	9	100000	0

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

98023560001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 1/16/2008 8:40:49 AM
Data Type: Reprocessed on 1/16/2008 9:34:54 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	128.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-5384.0	86.83	1.61%	[0.00]	ug/L
Al 308.215 R	27.3	0.55	2.00%	[0.00]	ug/L
As 188.979	-51.1	2.45	4.80%	[0.00]	ug/L
B 249.677	-1706.5	12.75	0.75%	[0.00]	ug/L
Ba 233.527	-44.3	3.63	8.18%	[0.00]	ug/L
Be 313.107	-608.1	69.83	11.48%	[0.00]	ug/L
Ca 315.887 R	309.5	8.34	2.70%	[0.00]	ug/L
Cd 214.440	-140.1	13.64	9.73%	[0.00]	ug/L
Co 228.616	-32.1	3.88	12.06%	[0.00]	ug/L
Cr 267.716	-93.4	10.42	11.16%	[0.00]	ug/L
Cu 324.752	2144.1	18.18	0.85%	[0.00]	ug/L
Fe 238.204 R	-17.8	0.69	3.86%	[0.00]	ug/L
K 766.490 R	-951.0	66.78	7.02%	[0.00]	ug/L
Mg 279.077 R	-218.3	5.36	2.46%	[0.00]	ug/L
Mn 257.610	-360.1	1.27	0.35%	[0.00]	ug/L
Mo 202.031	-8.9	6.79	76.46%	[0.00]	ug/L
Na 589.592 R	68232.2	4963.68	7.27%	[0.00]	ug/L
Ni 231.604	720.4	5.58	0.78%	[0.00]	ug/L
Pb 220.353	-102.5	17.48	17.05%	[0.00]	ug/L
Sb 206.836	200.2	42.04	20.99%	[0.00]	ug/L
Se 196.026	5.7	26.35	462.52%	[0.00]	ug/L
Ti 334.940 R	643.0	150.41	23.39%	[0.00]	ug/L
Tl 190.801	-8.8	10.54	119.94%	[0.00]	ug/L
V 292.402	-1045.7	50.13	4.79%	[0.00]	ug/L
Zn 206.200	29.1	1.13	3.88%	[0.00]	ug/L
Sn 189.927	-1.1	4.83	426.16%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 1/16/2008 8:45:17 AM
Data Type: Reprocessed on 1/16/2008 9:34:55 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	132.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Y 371.029	3716711.9	44402.00	1.19%	100.0	%
Y	243243.2	10194.16	4.19%	100.0	%
Ag 328.068†	2573.7	461.49	17.93%	[5.0]	ug/L
Al 308.215 R†	83.7	6.03	7.20%	[100]	ug/L
As 188.979†	51.9	7.85	15.12%	[5.0]	ug/L
B 249.677†	21394.3	195.44	0.91%	[100]	ug/L
Ba 233.527†	603.5	1.50	0.25%	[5.0]	ug/L
Be 313.107†	9210.9	199.99	2.17%	[2.0]	ug/L
Ca 315.887 R†	2528.6	101.93	4.03%	[200]	ug/L
Cd 214.440†	1089.9	14.67	1.35%	[5.0]	ug/L
Co 228.616†	314.8	2.85	0.90%	[5.0]	ug/L
Cr 267.716†	1084.2	8.31	0.77%	[5.0]	ug/L
Cu 324.752†	1275.7	76.45	5.99%	[5.0]	ug/L
Fe 238.204 R†	451.7	16.48	3.65%	[100]	ug/L
K 766.490 R†	1501.0	202.11	13.46%	[500]	ug/L
Mg 279.077 R†	167.6	3.66	2.19%	[200]	ug/L
Mn 257.610†	3170.3	11.71	0.37%	[5.0]	ug/L
Mo 202.031†	253.8	6.23	2.45%	[5.0]	ug/L
Na 589.592 R†	169547.4	11129.03	6.56%	[500]	ug/L
Ni 231.604†	595.7	10.34	1.74%	[5.0]	ug/L
Pb 220.353†	165.4	10.16	6.15%	[3.0]	ug/L
Sb 206.836†	153.0	32.64	21.34%	[5.0]	ug/L
Se 196.026†	77.2	6.15	7.96%	[5.0]	ug/L
Ti 334.940 R†	8885.0	253.91	2.86%	[10]	ug/L
Tl 190.801†	63.3	8.29	13.10%	[5.0]	ug/L
V 292.402†	1045.8	123.32	11.79%	[5.0]	ug/L
Zn 206.200†	2816.7	22.07	0.78%	[20]	ug/L
Sn 189.927†	871.4	5.84	0.67%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/16/2008 8:49:45 AM
Data Type: Reprocessed on 1/16/2008 9:34:56 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	130.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3559784.1	43620.37	1.23%	95:78	%
Y	250221.7	458.05	0.18%	102.9	%
Ag 328.068†	59248.8	1184.78	2.00%	[100]	ug/L
As 188.979†	1102.0	16.31	1.48%	[100]	ug/L
Ba 233.527†	10405.1	125.70	1.21%	[100]	ug/L
Be 313.107†	443748.6	3231.91	0.73%	[100]	ug/L
Cd 214.440†	21352.7	792.53	3.71%	[100]	ug/L
Co 228.616†	5886.1	68.73	1.17%	[100]	ug/L
Cr 267.716†	20218.4	510.71	2.53%	[100]	ug/L
Cu 324.752†	20044.1	396.35	1.98%	[100]	ug/L
Mn 257.610†	60494.1	1783.94	2.95%	[100]	ug/L
Mo 202.031†	4829.6	69.26	1.43%	[100]	ug/L
Ni 231.604†	10110.2	243.47	2.41%	[100]	ug/L
Pb 220.353†	5894.2	47.11	0.80%	[100]	ug/L
Sb 206.836†	2739.9	54.28	1.98%	[100]	ug/L
Se 196.026†	1538.3	43.82	2.85%	[100]	ug/L
Ti 334.940 R†	84646.0	2098.99	2.48%	[100]	ug/L
Tl 190.801†	1223.9	23.72	1.94%	[100]	ug/L
V 292.402†	22298.4	496.54	2.23%	[100]	ug/L
Zn 206.200†	9206.7	107.01	1.16%	[100]	ug/L
Sn 189.927†	2063.6	26.23	1.27%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/16/2008 8:53:14 AM
Data Type: Reprocessed on 1/16/2008 9:34:57 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	129.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3590162.6	50051.80	1.39%	96.60	%
Y	242710.3	4094.73	1.69%	99.78	%
Ag 328.068†	599110.7	1162.09	0.19%	[1000]	ug/L
Al 308.215 R†	682.7	11.49	1.68%	[1000]	ug/L
As 188.979†	11057.2	172.94	1.56%	[1000]	ug/L
B 249.677†	208468.1	491.11	0.24%	[1000]	ug/L
Ba 233.527†	104252.2	145.30	0.14%	[1000]	ug/L
Be 313.107†	4451450.9	9066.34	0.20%	[1000]	ug/L
Ca 315.887 R†	7628.9	129.37	1.70%	[1000]	ug/L
Cd 214.440†	212106.6	324.60	0.15%	[1000]	ug/L
Co 228.616†	61494.9	320.18	0.52%	[1000]	ug/L
Cr 267.716†	197581.5	402.44	0.20%	[1000]	ug/L
Cu 324.752†	202525.4	518.60	0.26%	[1000]	ug/L
Fe 238.204 R†	3847.4	60.30	1.57%	[1000]	ug/L
K 766.490 R†	2879.1	114.41	3.97%	[1000]	ug/L
Mg 279.077 R†	811.4	9.42	1.16%	[1000]	ug/L
Mn 257.610†	595643.3	728.37	0.12%	[1000]	ug/L
Mo 202.031†	47710.0	704.39	1.48%	[1000]	ug/L
Na 589.592 R†	333794.1	8514.32	2.55%	[1000]	ug/L
Ni 231.604†	101273.9	314.14	0.31%	[1000]	ug/L
Pb 220.353†	59539.3	764.12	1.28%	[1000]	ug/L
Sb 206.836†	27048.9	728.37	2.69%	[1000]	ug/L
Se 196.026†	15056.5	145.63	0.97%	[1000]	ug/L
Ti 334.940 R†	833832.5	487.25	0.06%	[1000]	ug/L
Tl 190.801†	12314.9	130.31	1.06%	[1000]	ug/L
V 292.402†	219755.6	537.59	0.24%	[1000]	ug/L
Zn 206.200†	82032.5	398.94	0.49%	[1000]	ug/L
Sn 189.927†	20913.2	361.10	1.73%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/16/2008 8:56:49 AM
Data Type: Reprocessed on 1/16/2008 9:34:58 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	129.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3490229.2	31167.39	0.89%	93.91	%
Y	226849.6	3666.51	1.62%	93.26	%
Ag 328.068†	1204979.0	1720.71	0.14%	[2000]	ug/L
Al 308.215 Rt	7060.7	110.12	1.56%	[10000]	ug/L
As 188.979†	108081.7	1213.43	1.12%	[10000]	ug/L
B 249.677†	2146478.7	4406.89	0.21%	[10000]	ug/L
Ba 233.527†	1027960.2	2827.38	0.28%	[10000]	ug/L
Ca 315.887 Rt	69290.5	1207.44	1.74%	[10000]	ug/L
Cd 214.440†	2069300.0	9898.96	0.48%	[10000]	ug/L
Co 228.616†	605362.7	1029.00	0.17%	[10000]	ug/L
Cr 267.716†	1963170.6	6979.86	0.36%	[10000]	ug/L
Cu 324.752†	2005740.5	3903.73	0.19%	[10000]	ug/L
Fe 238.204 Rt	39194.0	629.99	1.61%	[10000]	ug/L
K 766.490 Rt	26870.5	478.99	1.78%	[10000]	ug/L
Mg 279.077 Rt	8215.3	193.44	2.35%	[10000]	ug/L
Mn 257.610†	5717579.5	82013.12	1.43%	[10000]	ug/L
Mo 202.031†	457684.0	9854.63	2.15%	[10000]	ug/L
Na 589.592 Rt	3363092.4	53218.99	1.58%	[10000]	ug/L
Ni 231.604†	1006148.9	3233.25	0.32%	[10000]	ug/L
Pb 220.353†	586330.1	6363.95	1.09%	[10000]	ug/L
Sb 206.836†	276814.3	2665.33	0.96%	[10000]	ug/L
Se 196.026†	155336.3	1792.12	1.15%	[10000]	ug/L
Ti 334.940 Rt	8047199.2	120936.62	1.50%	[10000]	ug/L
Tl 190.801†	121382.2	1378.50	1.14%	[10000]	ug/L
V 292.402†	2242314.7	9689.24	0.43%	[10000]	ug/L
Zn 206.200†	812718.2	2672.71	0.33%	[10000]	ug/L
Sn 189.927†	223806.9	2700.35	1.21%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/16/2008 9:01:33 AM
Data Type: Reprocessed on 1/16/2008 9:35:01 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	130.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3268976.5	12446.32	0.38%	87.95	%
Y	232258.9	1218.29	0.52%	95.48	%
Al 308.215 Rt	66755.4	1025.44	1.54%	[100000]	ug/L
Ca 315.887 Rt	614420.8	6811.41	1.11%	[100000]	ug/L
Fe 238.204 Rt	351577.2	5476.08	1.56%	[100000]	ug/L
K 766.490 Rt	252498.7	4269.07	1.69%	[100000]	ug/L
Mg 279.077 Rt	74521.7	545.77	0.73%	[100000]	ug/L
Na 589.592 Rt	30901904.5	302512.14	0.98%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	601.8	0.00000	0.999997	
Al 308.215 R	4	Lin Thru 0	0.0	0.6679	0.00000	0.999984	
As 188.979	4	Lin Thru 0	0.0	10.81	0.00000	0.999997	
B 249.677	3	Lin Thru 0	0.0	214.6	0.00000	0.999996	
Ba 233.527	4	Lin Thru 0	0.0	102.8	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	4451	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	6.152	0.00000	0.999915	
Cd 214.440	4	Lin Thru 0	0.0	207.0	0.00000	0.999997	
Co 228.616	4	Lin Thru 0	0.0	60.55	0.00000	0.999999	
Cr 267.716	4	Lin Thru 0	0.0	196.3	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	200.6	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	3.520	0.00000	0.999935	
K 766.490 R	4	Lin Thru 0	0.0	2.527	0.00000	0.999978	
Mg 279.077 R	4	Lin Thru 0	0.0	0.7460	0.00000	0.999948	
Mn 257.610	4	Lin Thru 0	0.0	572.0	0.00000	0.999991	
Mo 202.031	4	Lin Thru 0	0.0	45.79	0.00000	0.999991	
Na 589.592 R	4	Lin Thru 0	0.0	309.3	0.00000	0.999961	
Ni 231.604	4	Lin Thru 0	0.0	100.6	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	58.64	0.00000	0.999999	
Sb 206.836	4	Lin Thru 0	0.0	27.68	0.00000	0.999997	
Se 196.026	4	Lin Thru 0	0.0	15.53	0.00000	0.999995	
Ti 334.940 R	4	Lin Thru 0	0.0	805.0	0.00000	0.999993	
Tl 190.801	4	Lin Thru 0	0.0	12.14	0.00000	0.999999	
V 292.402	4	Lin Thru 0	0.0	224.2	0.00000	0.999998	
Zn 206.200	4	Lin Thru 0	0.0	81.28	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	22.37	0.00000	0.999979	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09
Seqnum : 98023560007
Cal : 98023560001
Standards: S7982

File : 011608r
Caldate : 16-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 09:08

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	28.181	28.248	5000	5104	ug/L	2	10	
Arsenic	A	10.817	11.594	5000	5362	ug/L	7	10	
Barium	A	107.95	106.91	5000	5199	ug/L	4	10	
Beryllium	A	4498.1	4702.0	500.0	528.2	ug/L	6	10	
Boron	A	212.35	226.97	5000	5289	ug/L	6	10	
Cadmium	A	212.64	210.30	5000	5080	ug/L	2	10	
Chromium	A	203.23	198.05	5000	5044	ug/L	1	10	
Cobalt	A	60.964	60.293	5000	4968	ug/L	-1	10	
Copper	A	214.67	203.52	5000	5073	ug/L	1	10	
Lead	A	58.060	59.003	5000	5031	ug/L	1	10	
Manganese	A	601.60	584.78	5000	5112	ug/L	2	10	
Molybdenum	A	48.133	47.135	5000	5147	ug/L	3	10	
Nickel	A	105.53	101.08	5000	5023	ug/L	0	10	
Selenium	A	15.354	15.773	5000	5079	ug/L	2	10	
Silver	A	577.21	605.29	1000	1006	ug/L	1	10	
Thallium	A	12.338	12.250	5000	5045	ug/L	1	10	
Tin	A	21.429	22.647	5000	5063	ug/L	1	10	
Titanium	A	843.38	841.24	5000	5225	ug/L	5	10	
Vanadium	A	219.03	227.67	5000	5078	ug/L	2	10	
Zinc	A	99.052	81.541	5000	5016	ug/L	0	10	
Aluminum	R	0.7234	0.6966	20000	20860	ug/L	4	10	
Calcium	R	8.3363	6.5738	20000	21370	ug/L	7	10	
Iron	R	3.9499	3.7509	20000	21310	ug/L	7	10	
Magnesium	R	0.8040	0.8197	20000	21980	ug/L	10	10	
Potassium	R	2.7733	2.5923	20000	20520	ug/L	3	10	
Sodium	R	329.55	322.27	20000	20840	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	3330472	-10.39

98023560007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98023560008
Cal : 98023560001
File : 011608r
Caldate : 16-JAN-2008
IDF : 1.0
Time : 16-JAN-2008 09:25

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.039]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[0.1698]	5.000	0.1113	ug/L	!ib
Beryllium	A	ND	2.000	0.04231	ug/L	
Boron	A	[8.438]	100.0	3.849	ug/L	!ib
Cadmium	A	[0.4567]	5.000	0.1091	ug/L	!ib
Chromium	A	ND	5.000	0.2448	ug/L	
Cobalt	A	ND	5.000	0.3034	ug/L	
Copper	A	ND	5.000	0.8535	ug/L	
Lead	A	ND	3.000	0.6892	ug/L	
Manganese	A	ND	5.000	0.4388	ug/L	
Molybdenum	A	ND	5.000	0.4140	ug/L	
Nickel	A	ND	5.000	0.3660	ug/L	
Selenium	A	[1.637]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	ND	5.000	1.616	ug/L	
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	ND	10.00	1.018	ug/L	
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	ND	20.00	0.8377	ug/L	
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	ND	100.0	6.086	ug/L	
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	ND	500.0	39.71	ug/L	
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	3686938	-0.80

!=warning ib=instrument blank

98023560008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09
Seqnum : 98023560009
Cal : 98023560001
Standards: S7557

File : 011608r
Caldate : 16-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 09:30

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[-0.1414]	5.000	ug/L	
Arsenic	A	[4.585]	5.000	ug/L	
Barium	A	[-0.09349]	5.000	ug/L	
Beryllium	A	[-0.8246]	2.000	ug/L	
Boron	A	104.8	100.0	ug/L	
Cadmium	A	[-3.537]	5.000	ug/L	
Cobalt	A	[1.028]	5.000	ug/L	
Lead	A	[-2.294]	3.000	ug/L	
Molybdenum	A	[1.163]	5.000	ug/L	
Selenium	A	[1.196]	5.000	ug/L	
Silver	A	[2.287]	5.000	ug/L	
Thallium	A	[-3.052]	5.000	ug/L	
Tin	A	[-15.15]	40.00	ug/L	
Zinc	A	[-3.841]	20.00	ug/L	
Potassium	R	[176.3]	500.0	ug/L	
Sodium	R	[66.05]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19310	ug/L	97
Copper	A	20000	20580	ug/L	103
Manganese	A	20000	18730	ug/L	94
Nickel	A	20000	17460	ug/L	87
Titanium	A	20000	20180	ug/L	101
Vanadium	A	20000	20310	ug/L	102
Aluminum	R	500000	506000	ug/L	101
Calcium	R	500000	493500	ug/L	99
Iron	R	200000	191900	ug/L	96
Magnesium	R	500000	501100	ug/L	100

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	2871974	-22.73

98023560009

: 00182

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98023560010
Cal : 98023560001
Standards: S8086

File : 011608r
Caldate : 16-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 09:35

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	526.8	ug/L	5	20	
Arsenic	A	500.0	539.8	ug/L	8	20	
Barium	A	500.0	530.1	ug/L	6	20	
Beryllium	A	500.0	544.2	ug/L	9	20	
Cadmium	A	1000	977.1	ug/L	-2	20	
Chromium	A	500.0	506.5	ug/L	1	20	
Cobalt	A	500.0	446.5	ug/L	-11	20	
Copper	A	500.0	537.9	ug/L	8	20	
Lead	A	1000	921.1	ug/L	-8	20	
Manganese	A	500.0	521.6	ug/L	4	20	
Molybdenum	A	500.0	535.6	ug/L	7	20	
Nickel	A	1000	919.4	ug/L	-8	20	
Selenium	A	500.0	501.1	ug/L	0	20	
Silver	A	1000	1094	ug/L	9	20	
Thallium	A	500.0	441.2	ug/L	-12	20	
Titanium	A	20000	20710	ug/L	4		
Vanadium	A	500.0	536.1	ug/L	7	20	
Zinc	A	1000	954.1	ug/L	-5	20	
Aluminum	R	500000	515400	ug/L	3		
Calcium	R	500000	498000	ug/L	0		
Iron	R	200000	194600	ug/L	-3		
Magnesium	R	500000	509900	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	2856789	-23.14

98023560010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98023560019
Cal : 98023560001
Standards: S7983

File : 011608r
Caldate : 16-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 10:09

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.181	28.647	5000	5176	ug/L	4	10	
Arsenic	A	10.817	11.645	5000	5386	ug/L	8	10	
Barium	A	107.95	106.91	5000	5199	ug/L	4	10	
Beryllium	A	4498.1	4698.9	500.0	527.8	ug/L	6	10	
Boron	A	212.35	224.92	5000	5241	ug/L	5	10	
Cadmium	A	212.64	213.92	5000	5168	ug/L	3	10	
Chromium	A	203.23	197.87	5000	5039	ug/L	1	10	
Cobalt	A	60.964	60.589	5000	4992	ug/L	0	10	
Copper	A	214.67	201.88	5000	5032	ug/L	1	10	
Lead	A	58.060	59.415	5000	5066	ug/L	1	10	
Manganese	A	601.60	590.08	5000	5158	ug/L	3	10	
Molybdenum	A	48.133	46.902	5000	5122	ug/L	2	10	
Nickel	A	105.53	101.38	5000	5038	ug/L	1	10	
Selenium	A	15.354	15.844	5000	5102	ug/L	2	10	
Silver	A	577.21	603.23	1000	1002	ug/L	0	10	
Thallium	A	12.338	12.363	5000	5092	ug/L	2	10	
Tin	A	21.429	22.832	5000	5104	ug/L	2	10	
Titanium	A	843.38	840.96	5000	5223	ug/L	4	10	
Vanadium	A	219.03	227.31	5000	5070	ug/L	1	10	
Zinc	A	99.052	82.220	5000	5058	ug/L	1	10	
Aluminum	R	0.7234	0.6778	20000	20300	ug/L	1	10	
Calcium	R	8.3363	6.5242	20000	21210	ug/L	6	10	
Iron	R	3.9499	3.7411	20000	21260	ug/L	6	10	
Magnesium	R	0.8040	0.8018	20000	21500	ug/L	7	10	
Potassium	R	2.7733	2.5601	20000	20260	ug/L	1	10	
Sodium	R	329.55	317.13	20000	20510	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	3361065	-9.57

98023560019

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98023560020
Cal : 98023560001
File : 011608r
Caldate : 16-JAN-2008
IDF : 1.0
Time : 16-JAN-2008 10:14

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.850]	5.000	1.074	ug/L	!ib
Arsenic	A	ND	5.000	1.320	ug/L	
Barium	A	[1.185]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1012]	2.000	0.04231	ug/L	!ib
Boron	A	[12.38]	100.0	3.849	ug/L	!ib
Cadmium	A	[1.585]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.086]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.038]	5.000	0.3034	ug/L	!ib
Copper	A	[1.957]	5.000	0.8535	ug/L	!ib
Lead	A	[1.411]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.085]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[2.534]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.511]	5.000	0.3660	ug/L	!ib
Selenium	A	[2.046]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.285]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.277]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.162]	20.00	0.8377	ug/L	!ib
Aluminum	R	ND	100.0	10.62	ug/L	
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[12.22]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[92.01]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	3532577	-4.95

!=warning ib=instrument blank

98023560020

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98023560032
Cal : 98023560001
Standards: S7983

File : 011608r
Caldate : 16-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 10:51

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.181	28.023	5000	5063	ug/L	1	10	
Arsenic	A	10.817	11.484	5000	5311	ug/L	6	10	
Barium	A	107.95	107.03	5000	5205	ug/L	4	10	
Beryllium	A	4498.1	4695.1	500.0	527.4	ug/L	5	10	
Boron	A	212.35	227.52	5000	5301	ug/L	6	10	
Cadmium	A	212.64	214.07	5000	5171	ug/L	3	10	
Chromium	A	203.23	197.62	5000	5033	ug/L	1	10	
Cobalt	A	60.964	59.623	5000	4912	ug/L	-2	10	
Copper	A	214.67	202.08	5000	5037	ug/L	1	10	
Lead	A	58.060	58.709	5000	5006	ug/L	0	10	
Manganese	A	601.60	589.10	5000	5149	ug/L	3	10	
Molybdenum	A	48.133	49.313	5000	5385	ug/L	8	10	
Nickel	A	105.53	101.41	5000	5039	ug/L	1	10	
Selenium	A	15.354	15.588	5000	5019	ug/L	0	10	
Silver	A	577.21	595.99	1000	990.4	ug/L	-1	10	
Thallium	A	12.338	12.196	5000	5023	ug/L	0	10	
Tin	A	21.429	22.636	5000	5060	ug/L	1	10	
Titanium	A	843.38	840.93	5000	5223	ug/L	4	10	
Vanadium	A	219.03	226.79	5000	5058	ug/L	1	10	
Zinc	A	99.052	80.927	5000	4978	ug/L	0	10	
Aluminum	R	0.7234	0.6814	20000	20400	ug/L	2	10	
Calcium	R	8.3363	6.5716	20000	21360	ug/L	7	10	
Iron	R	3.9499	3.7751	20000	21450	ug/L	7	10	
Magnesium	R	0.8040	0.8107	20000	21740	ug/L	9	10	
Potassium	R	2.7733	2.5811	20000	20430	ug/L	2	10	
Sodium	R	329.55	320.90	20000	20750	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	3369925	-9.33

98023560032

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98023560033
Cal : 98023560001
File : 011608r
Caldate : 16-JAN-2008
IDF : 1.0
Time : 16-JAN-2008 10:55

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.601]	5.000	1.074	ug/L	!ib
Arsenic	A	[2.743]	5.000	1.320	ug/L	!ib
Barium	A	[1.226]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1083]	2.000	0.04231	ug/L	!ib
Boron	A	[20.40]	100.0	3.849	ug/L	!ib
Cadmium	A	[2.064]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.148]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.140]	5.000	0.3034	ug/L	!ib
Copper	A	[2.142]	5.000	0.8535	ug/L	!ib
Lead	A	[1.333]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.256]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.141]	5.000	0.4140	ug/L	!ib
Nickel	A	[1.467]	5.000	0.3660	ug/L	!ib
Selenium	A	[3.991]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[2.805]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[1.533]	10.00	1.018	ug/L	!ib
Vanadium	A	ND	5.000	1.034	ug/L	
Zinc	A	[1.310]	20.00	0.8377	ug/L	!ib
Aluminum	R	[13.58]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[17.11]	100.0	6.086	ug/L	!ib
Magnesium	R	ND	200.0	10.47	ug/L	
Potassium	R	[68.07]	500.0	39.71	ug/L	!ib
Sodium	R	ND	500.0	17.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	3555845	-4.33

!=warning ib=instrument blank

98023560033

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98023560040
Cal : 98023560001
Standards: S8086

File : 011608r
Caldate : 16-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 11:24

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	570.8	ug/L	14	20	
Arsenic	A	500.0	566.7	ug/L	13	20	
Barium	A	500.0	556.6	ug/L	11	20	
Beryllium	A	500.0	576.8	ug/L	15	20	
Cadmium	A	1000	1026	ug/L	3	20	
Chromium	A	500.0	533.4	ug/L	7	20	
Cobalt	A	500.0	474.3	ug/L	-5	20	
Copper	A	500.0	569.8	ug/L	14	20	
Lead	A	1000	968.8	ug/L	-3	20	
Manganese	A	500.0	545.9	ug/L	9	20	
Molybdenum	A	500.0	568.4	ug/L	14	20	
Nickel	A	1000	976.0	ug/L	-2	20	
Selenium	A	500.0	546.6	ug/L	9	20	
Silver	A	1000	1149	ug/L	15	20	
Thallium	A	500.0	472.7	ug/L	-5	20	
Titanium	A	20000	21810	ug/L	9		
Vanadium	A	500.0	564.0	ug/L	13	20	
Zinc	A	1000	1017	ug/L	2	20	
Aluminum	R	500000	491500	ug/L	-2		
Calcium	R	500000	474400	ug/L	-5		
Iron	R	200000	184700	ug/L	-8		
Magnesium	R	500000	495500	ug/L	-1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	2822321	-24.06

98023560040

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98023560043
Cal : 98023560001
Standards: S7983

File : 011608r
Caldate : 16-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 11:33

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.181	26.723	5000	4828	ug/L	-3	10	
Arsenic	A	10.817	10.902	5000	5042	ug/L	1	10	
Barium	A	107.95	103.14	5000	5016	ug/L	0	10	
Beryllium	A	4498.1	4523.0	500.0	508.1	ug/L	2	10	
Boron	A	212.35	217.33	5000	5064	ug/L	1	10	
Cadmium	A	212.64	204.61	5000	4943	ug/L	-1	10	
Chromium	A	203.23	190.39	5000	4849	ug/L	-3	10	
Cobalt	A	60.964	57.236	5000	4716	ug/L	-6	10	
Copper	A	214.67	194.62	5000	4851	ug/L	-3	10	
Lead	A	58.060	55.969	5000	4772	ug/L	-5	10	
Manganese	A	601.60	566.26	5000	4950	ug/L	-1	10	
Molybdenum	A	48.133	44.227	5000	4830	ug/L	-3	10	
Nickel	A	105.53	97.740	5000	4857	ug/L	-3	10	
Selenium	A	15.354	14.932	5000	4808	ug/L	-4	10	
Silver	A	577.21	566.69	1000	941.7	ug/L	-6	10	
Thallium	A	12.338	11.636	5000	4792	ug/L	-4	10	
Tin	A	21.429	21.549	5000	4817	ug/L	-4	10	
Titanium	A	843.38	809.53	5000	5028	ug/L	1	10	
Vanadium	A	219.03	218.48	5000	4873	ug/L	-3	10	
Zinc	A	99.052	77.528	5000	4769	ug/L	-5	10	
Aluminum	R	0.7234	0.6860	20000	20540	ug/L	3	10	
Calcium	R	8.3363	6.5759	20000	21380	ug/L	7	10	
Iron	R	3.9499	3.7456	20000	21280	ug/L	6	10	
Magnesium	R	0.8040	0.8183	20000	21940	ug/L	10	10	
Potassium	R	2.7733	2.5557	20000	20230	ug/L	1	10	
Sodium	R	329.55	320.37	20000	20720	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	3396267	-8.62

98023560043

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98023560044
Cal : 98023560001

File : 011608r
Caldate : 16-JAN-2008

IDF : 1.0
Time : 16-JAN-2008 11:37

Analyte	Ch	Quant	IQL	MDL	Units	Flags
Antimony	A	[2.990]	5.000	1.074	ug/L	!ib
Arsenic	A	[1.851]	5.000	1.320	ug/L	!ib
Barium	A	[1.639]	5.000	0.1113	ug/L	!ib
Beryllium	A	[0.1861]	2.000	0.04231	ug/L	!ib
Boron	A	[24.26]	100.0	3.849	ug/L	!ib
Cadmium	A	[2.681]	5.000	0.1091	ug/L	!ib
Chromium	A	[1.630]	5.000	0.2448	ug/L	!ib
Cobalt	A	[1.528]	5.000	0.3034	ug/L	!ib
Copper	A	[2.213]	5.000	0.8535	ug/L	!ib
Lead	A	[2.327]	3.000	0.6892	ug/L	!ib
Manganese	A	[1.579]	5.000	0.4388	ug/L	!ib
Molybdenum	A	[3.707]	5.000	0.4140	ug/L	!ib
Nickel	A	[2.017]	5.000	0.3660	ug/L	!ib
Selenium	A	[3.802]	5.000	1.469	ug/L	!ib
Silver	A	ND	5.000	0.7459	ug/L	
Thallium	A	[3.944]	5.000	1.616	ug/L	!ib
Tin	A	ND	40.00	5.000	ug/L	
Titanium	A	[2.381]	10.00	1.018	ug/L	!ib
Vanadium	A	[1.306]	5.000	1.034	ug/L	!ib
Zinc	A	[1.756]	20.00	0.8377	ug/L	!ib
Aluminum	R	[23.79]	100.0	10.62	ug/L	!ib
Calcium	R	ND	200.0	44.07	ug/L	
Iron	R	[20.18]	100.0	6.086	ug/L	!ib
Magnesium	R	[23.43]	200.0	10.47	ug/L	!ib
Potassium	R	[40.05]	500.0	39.71	ug/L	!ib
Sodium	R	[28.31]	500.0	17.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3716712	3552614	-4.42

!=warning ib=instrument blank

98023560044

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 48022475 Instrument: MET04 HydraAA HG Analyzer
Analytical Method: EPA 7470A SOP Version: HG_water_rv10 Begun: 15-JAN-2008
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	133770	ICALBLK	STD01REP1				15-JAN-2008 14:35	1.0	1.0									
002	133770	ICAL	STD02REP1				15-JAN-2008 14:38	1.0	1.0									
003	133770	ICAL	STD03REP1				15-JAN-2008 14:41	1.0	1.0									
004	133770	ICAL	STD04REP1				15-JAN-2008 14:43	1.0	1.0									
005	133770	ICAL	STD05REP1				15-JAN-2008 14:45	1.0	1.0									
006	133770	ICAL	STD06REP1				15-JAN-2008 14:47	1.0	1.0									
007	133770	ICV					15-JAN-2008 14:53	1.0	1.0	2	5.000	48022475001	5.130		ug/L	103		
008	133770	ICB					15-JAN-2008 14:56	1.0	1.0			48022475001	ND	0.20	ug/L			
009	133770	BLANK	QC424010		133770	Soil	15-JAN-2008 14:58	1.0	100.0			48022475001	ND	0.020	mg/Kg			u
010	133770	BS	QC424011		133770	Soil	15-JAN-2008 15:01	1.0	100.0		0.5000	48022475001	0.5050	0.020	mg/Kg	101		u
011	133770	BSD	QC424012		133770	Soil	15-JAN-2008 15:03	1.0	100.0		0.5000	48022475001	0.5200	0.020	mg/Kg	104	3	u
012	133770	MSS	200492-001		133770	Soil	15-JAN-2008 15:06	1.0	80.65			48022475001	0.040	0.020	mg/Kg			u
013	133770	SER	QC424013	200492-001	133770	Soil	15-JAN-2008 15:08	5.0	80.65			48022475001	ND	0.081	mg/Kg	--		u
014	133770	MS	QC424014	200492-001	133770	Soil	15-JAN-2008 15:11	1.0	98.04		0.4902	48022475001	0.5882	0.020	mg/Kg	112		u
015	133770	MSD	QC424015	200492-001	133770	Soil	15-JAN-2008 15:13	1.0	86.21		0.4310	48022475001	0.5233	0.020	mg/Kg	112	0	u
016	133770	SAMPLE	200492-002		133770	Soil	15-JAN-2008 15:15	1.0	79.37			48022475001	0.052	0.020	mg/Kg			u
017	133770	SAMPLE	200492-003		133770	Soil	15-JAN-2008 15:18	1.0	96.15			48022475001	ND	0.020	mg/Kg			u
018	133770	SAMPLE	200492-004		133770	Soil	15-JAN-2008 15:20	1.0	96.15			48022475001	0.049	0.020	mg/Kg			u
019	133770	CCV					15-JAN-2008 15:22	1.0	1.0	3	2.500	48022475001	2.530		ug/L	101		
020	133770	CCB					15-JAN-2008 15:24	1.0	1.0			48022475001	ND	0.20	ug/L			
021	133770	SAMPLE	200492-005		133770	Soil	15-JAN-2008 15:26	1.0	79.37			48022475001	ND	0.020	mg/Kg			u
022	133770	SAMPLE	200492-006		133770	Soil	15-JAN-2008 15:28	1.0	86.21			48022475001	ND	0.020	mg/Kg			u
023	133770	SAMPLE	200492-007		133770	Soil	15-JAN-2008 15:31	1.0	94.34			48022475001	0.029	0.020	mg/Kg			u
024	133770	SAMPLE	200492-008		133770	Soil	15-JAN-2008 15:33	1.0	74.63			48022475001	0.11	0.020	mg/Kg			u
025	133770	SAMPLE	200492-009		133770	Soil	15-JAN-2008 15:35	1.0	86.21			48022475001	0.021	0.020	mg/Kg			u
026	133770	SAMPLE	200492-010		133770	Soil	15-JAN-2008 15:37	1.0	96.15			48022475001	0.041	0.020	mg/Kg			u
027	133770	SAMPLE	200492-011		133770	Soil	15-JAN-2008 15:39	1.0	90.91			48022475001	0.097	0.020	mg/Kg			u
028	133770	SAMPLE	200492-012		133770	Soil	15-JAN-2008 15:42	1.0	87.72			48022475001	0.077	0.020	mg/Kg			u
029	133770	SAMPLE	200492-013		133770	Soil	15-JAN-2008 15:44	1.0	87.72			48022475001	0.034	0.020	mg/Kg			u
030	133770	SAMPLE	200503-001		133770	Miscel	15-JAN-2008 15:46	1.0	87.72			48022475001	0.45	0.020	mg/Kg			u
031	133770	CCV					15-JAN-2008 15:49	1.0	1.0	4	5.000	48022475001	5.400		ug/L	108		
032	133770	CCB					15-JAN-2008 15:51	1.0	1.0			48022475001	ND	0.20	ug/L			
033	133770	SAMPLE	200520-005		133770	Soil	15-JAN-2008 15:54	1.0	87.72			48022475001	0.015 J	0.020	mg/Kg			u
034	133770	SAMPLE	200522-001		133770	Soil	15-JAN-2008 15:56	1.0	92.59			48022475001	0.015 J	0.020	mg/Kg			u
035	133770	CCV					15-JAN-2008 15:58	1.0	1.0	5	7.500	48022475001	7.950		ug/L	106		
036	133770	CCB					15-JAN-2008 16:00	1.0	1.0			48022475001	ND	0.20	ug/L			

Stds used: 1=S8164 2=S8166 3=S8167 4=S8168 5=S8169
Flags used: u=use

Analyst: _____ Date: 1/15/08

SOP HG_water_rv10

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 48022475001
Units : ug/L

Date : 15-JAN-2008 14:35
X Axis : R

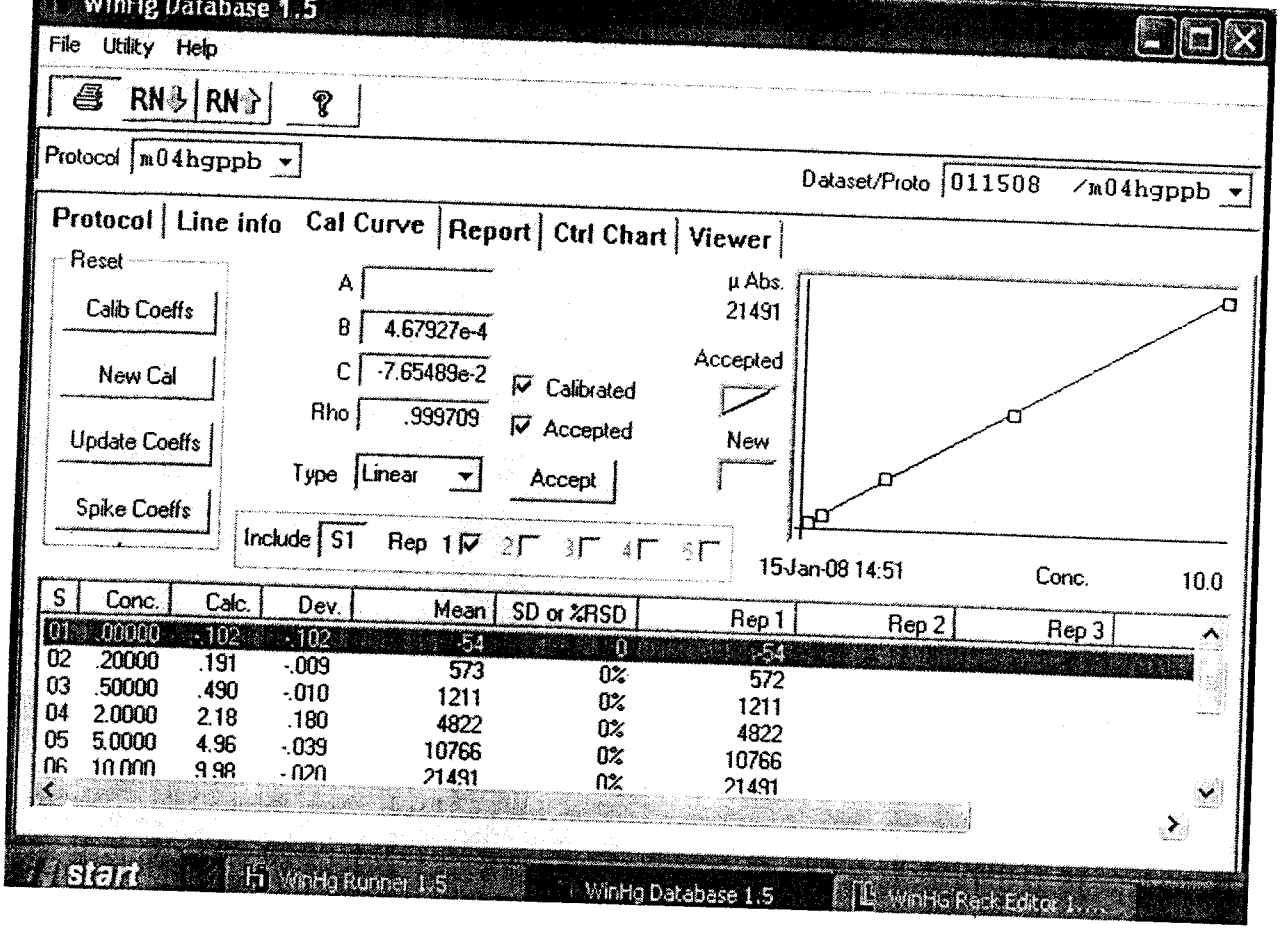
Reviewer : ---
Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	133770	48022475002	STD02REP1	15-JAN-2008 14:38	S8164 (500X)
L2	133770	48022475003	STD03REP1	15-JAN-2008 14:41	S8164 (200X)
L3	133770	48022475004	STD04REP1	15-JAN-2008 14:43	S8164 (50X)
L4	133770	48022475005	STD05REP1	15-JAN-2008 14:45	S8164 (20X)
L5	133770	48022475006	STD06REP1	15-JAN-2008 14:47	S8164 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	2860.0	2422.0	2411.0	2153.2	2149.1	LINR	-0.0765	4.68E-4		2399.1	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Mercury	0.200	-4	0.500	-2	2.000	9	5.000	-1	10.00	0

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression


WinHg Database 1.5
File Utility Help
RN RN
Protocol m04hgppb
Dataset/Proto 011508 /m04hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 4.67927e-4
C -7.65489e-2
Rho .999709
Type Linear
Calibrated
Accepted
Accept
µ Abs.
21491
Accepted
New
Include S1 Rep 1 2 3 4 5
15-Jan-08 14:51
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.102 -.102 -54 0 -54
02 .20000 .191 -.009 573 0% 572
03 .50000 .490 -.010 1211 0% 1211
04 2.0000 2.18 .180 4822 0% 4822
05 5.0000 4.96 -.039 10766 0% 10766
06 10.000 9.98 -.020 21491 0% 21491
start
WinHg Runner 1.5
WinHg Database 1.5
WinHG Rack Editor 1.

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1	14:35:36 15 Jan 08	HG		
Hg	.000	ppb	-54					
		Bkgd 1	18611686					
*** Standard: 2 Rep: 1				Seq: 2	14:38:42 15 Jan 08	HG		
Hg	.200	ppb	572					
		Bkgd 1	18616392					
*** Standard: 3 Rep: 1				Seq: 3	14:41:21 15 Jan 08	HG		
Hg	.500	ppb	1211					
		Bkgd 1	18612659					
*** Standard: 4 Rep: 1				Seq: 4	14:43:25 15 Jan 08	HG		
Hg	2.00	ppb	4822					
		Bkgd 1	18611535					
*** Standard: 5 Rep: 1				Seq: 5	14:45:30 15 Jan 08	HG		
Hg	5.00	ppb	10766					
		Bkgd 1	18596171					
*** Standard: 6 Rep: 1				Seq: 6	14:47:54 15 Jan 08	HG		
Hg	10.0	ppb	21491					
		Bkgd 1	18603193					
*** Check Standard: 2			Ck2s8166	Seq: 7	14:53:50 15 Jan 08	HG		
Line Flag			Intensities					
Hg			11119					
		Bkgd 1	18593479					
*** Check Standard: 1			Ck1ICB	Seq: 8	14:56:25 15 Jan 08	HG		
Line Flag			Intensities					
Hg			1					
		Bkgd 1	18593867					
*** Sample ID: qc424010				Seq: 9	14:58:44 15 Jan 08	HG		
			133770,1					
Hg	-.032	ppb	95					
		Bkgd 1	18597573					

Curtis & Tompkins Laboratories **Sample Preparation Summary** **16-JAN-2008 07:08**

Batch Number : 133790
Date Extracted: 15-JAN-2008
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S6918
Spike #2 ID : S6919
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
200520-005			Mactec, Inc.	Soil	1.04	g	50	48.076923	1					T26/ICP		
200527-001			GeoSyntec Consultants	Soil	1.07	g	50	46.728972	1					T26/ICP		
200542-001			Tetra Tech EMI	Soil	1	g	50	50.000000	1					TAL/ICP		
QC424107	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC424108	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC424109	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC424110	MS	of 200520-005		Soil	1.11	g	50	45.045045	1		.5	.5		ICAP		
QC424111	MSD	of 200520-005		Soil	1.05	g	50	47.619048	1		.5	.5		ICAP		
QC424112	SER	of 200520-005		Soil	1.04	g	50	48.076923	1					ICAP		
QC424113	PDS	of 200520-005		Soil	1.04	g	50	48.076923	1					ICAP		

Prep Chemist: RT for MC 1/16/08 Reviewed By: [signature] Date: 1/16/08

Relinquished By: ↓ ↓ Received By: [signature] Date: 1/16/08

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 133790
Date Digested: 1/15/08
Digested by: MCB III

Digestion Method
☒ EPA 3050b
☐ _____

BK 2624
Page 81

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	Ø	50	Y	
BS	↓	↓	↓	
BSD	↓	↓	↓	
MS-520-005 A	1.11	↓	↓	
MSD-520-005	1.05	↓	↓	200520-005 IS A COMP OF 001-004 10G EA
200520-005	1.04	↓	↓	↓ ↓ ↓ ↓ ↓ ↓
200527-001	1.07	↓	↓	
200542-001	1.00	↓	↓	

	Reagent ID or LIMS #	Initials / Date
Class-A digestion tubes, lot#	4445-19253 261-108	MCB III 1/15/08
digestion temperature (90 - 95 degrees C)	95°C	↓
1.5 mL of spike solution was added to all spikes	56918	
	56919	
Digestion begun at (time)	7:28 PM	
1:1 HNO3	E27027 H BAKER	
concentrated HNO3	E27027	↓
3mL 30% hydrogen peroxide	E26A05	
concentrated HCl	E40060 ↓	
☒ filtered thru' Whatman # 541	H11204690	↓
Relinquished to ICP group		

Michael C Brock III 1/15/08
Extraction Chemist / Date

Continued from page _____
Continued on page _____

Dan Dunn 1/15/2008
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 15-JAN-2008 14:16

Batch Number : 133770
Date Extracted: 15-JAN-2008
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S8164
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
200492-001			Blasland, Bouck & Lee	Soil	.62	g	50	80.645161	1					PP13/HG		MSS
200492-002			Blasland, Bouck & Lee	Soil	.63	g	50	79.365079	1					PP13/HG		
200492-003			Blasland, Bouck & Lee	Soil	.52	g	50	96.153846	1					PP13/HG		
200492-004			Blasland, Bouck & Lee	Soil	.52	g	50	96.153846	1					PP13/HG		
200492-005			Blasland, Bouck & Lee	Soil	.63	g	50	79.365079	1					PP13/HG		
200492-006			Blasland, Bouck & Lee	Soil	.58	g	50	86.206897	1					PP13/HG		
200492-007			Blasland, Bouck & Lee	Soil	.53	g	50	94.339623	1					PP13/HG		
200492-008			Blasland, Bouck & Lee	Soil	.67	g	50	74.626866	1					PP13/HG		
200492-009			Blasland, Bouck & Lee	Soil	.58	g	50	86.206897	1					PP13/HG		
200492-010			Blasland, Bouck & Lee	Soil	.52	g	50	96.153846	1					PP13/HG		
200492-011			Blasland, Bouck & Lee	Soil	.55	g	50	90.909091	1					PP13/HG		
200492-012			Blasland, Bouck & Lee	Soil	.57	g	50	87.719298	1					PP13/HG		
200492-013			Blasland, Bouck & Lee	Soil	.57	g	50	87.719298	1					PP13/HG		
200503-001			ConocoPhillips Company	Miscell.	.57	g	50	87.719298	1					PP13/HG		
200520-005			Mactec, Inc.	Soil	.57	g	50	87.719298	1					T26/HG		
200522-001			Mactec, Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
QC424010	BLANK			Soil	.5	g	50	100.000000	1					T26/HG		
QC424011	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC424012	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC424013	SER	of 200492-001		Soil	.62	g	50	80.645161	1					HG		
QC424014	MS	of 200492-001		Soil	.51	g	50	98.039216	1		2.5			HG		
QC424015	MSD	of 200492-001		Soil	.58	g	50	86.206897	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 1/15/08

Relinquished By: _____ Received By: _____ Date: 1/15/08

DSR

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: B3770

Date Digested: 1/15/06

Digested by: SXM

Digestion Method

☒ EPA 7471A

☐ _____

BK 2605

Page 60

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
200492-001 A	0.62	50.0	Y	MSS
02	0.63			
03	0.52			
04	0.52			
05	0.63			
06	0.58			
07	0.53			
08	0.67			
09	0.58			
10	0.52			
11	0.55			
12	0.57			
13	0.57			
200503-001	0.57			
200520-005	0.57			comp of 1-9 by SCD
200522-001	0.54			
MBQC424010	0.50			
BS 11				
BSD 12				
MS 14	0.57			
MSD 15	0.58			
				SXM 1/15/06

25 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	SS164	SXM 1/15/06
ICAL Source WS#	↓	
ICV / CCV WS#	SS166/167/168/169	
Digestion of Samples & Standards: Time ON / Temperature ON	13:00/95°C	
Time OFF/ Temperature OFF	13:30/95°C	
Aqua Regia Acids (HNO3+ HCl)	AR011508	
5% $KMnO_4$	KM010906	
NaCl.hydroxylamine hydrochloride	HA122704	
Stannous Chloride	$SnCl_2$ 011806	
☒ filtered thru' 0.45 um syringe filter	R7CN29462	↓

1/15/06

Prep Chemist / Date

Continued from page 1

Continued on page _____

1/15/06

Reviewed by / Date

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 48022475 Instrument: MET04 HydraAA HG Analyzer
Analytical Method: EPA 7470A SOP Version: HG_water_rv10 Begun: 15-JAN-2008
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flag
001	133770	ICALBLK	STD01REP1				15-JAN-2008 14:35	1.0	1.0									
002	133770	ICAL	STD02REP1				15-JAN-2008 14:38	1.0	1.0									
003	133770	ICAL	STD03REP1				15-JAN-2008 14:41	1.0	1.0									
004	133770	ICAL	STD04REP1				15-JAN-2008 14:43	1.0	1.0									
005	133770	ICAL	STD05REP1				15-JAN-2008 14:45	1.0	1.0									
006	133770	ICAL	STD06REP1				15-JAN-2008 14:47	1.0	1.0									
007	133770	ICV					15-JAN-2008 14:53	1.0	1.0	2	5.000	48022475001	5.130		ug/L	103		
008	133770	ICB					15-JAN-2008 14:56	1.0	1.0			48022475001	ND	0.20	ug/L			
009	133770	BLANK	QC424010		133770	Soil	15-JAN-2008 14:58	1.0	100.0			48022475001	ND	0.020	mg/Kg			u
010	133770	BS	QC424011		133770	Soil	15-JAN-2008 15:01	1.0	100.0		0.5000	48022475001	0.5050	0.020	mg/Kg	101		u
011	133770	BSD	QC424012		133770	Soil	15-JAN-2008 15:03	1.0	100.0		0.5000	48022475001	0.5200	0.020	mg/Kg	104	3	u
012	133770	MSS	200492-001		133770	Soil	15-JAN-2008 15:06	1.0	80.65			48022475001	0.040	0.020	mg/Kg			u
013	133770	SER	QC424013	200492-001	133770	Soil	15-JAN-2008 15:08	5.0	80.65			48022475001	ND	0.081	mg/Kg	--		u
014	133770	MS	QC424014	200492-001	133770	Soil	15-JAN-2008 15:11	1.0	98.04		0.4902	48022475001	0.5882	0.020	mg/Kg	112		u
015	133770	MSD	QC424015	200492-001	133770	Soil	15-JAN-2008 15:13	1.0	86.21		0.4310	48022475001	0.5233	0.020	mg/Kg	112	0	u
016	133770	SAMPLE	200492-002		133770	Soil	15-JAN-2008 15:15	1.0	79.37			48022475001	0.052	0.020	mg/Kg			u
017	133770	SAMPLE	200492-003		133770	Soil	15-JAN-2008 15:18	1.0	96.15			48022475001	ND	0.020	mg/Kg			u
018	133770	SAMPLE	200492-004		133770	Soil	15-JAN-2008 15:20	1.0	96.15			48022475001	0.049	0.020	mg/Kg			u
019	133770	CCV					15-JAN-2008 15:22	1.0	1.0	3	2.500	48022475001	2.530		ug/L	101		
020	133770	CCB					15-JAN-2008 15:24	1.0	1.0			48022475001	ND	0.20	ug/L			
021	133770	SAMPLE	200492-005		133770	Soil	15-JAN-2008 15:26	1.0	79.37			48022475001	ND	0.020	mg/Kg			u
022	133770	SAMPLE	200492-006		133770	Soil	15-JAN-2008 15:28	1.0	86.21			48022475001	ND	0.020	mg/Kg			u
023	133770	SAMPLE	200492-007		133770	Soil	15-JAN-2008 15:31	1.0	94.34			48022475001	0.029	0.020	mg/Kg			u
024	133770	SAMPLE	200492-008		133770	Soil	15-JAN-2008 15:33	1.0	74.63			48022475001	0.11	0.020	mg/Kg			u
025	133770	SAMPLE	200492-009		133770	Soil	15-JAN-2008 15:35	1.0	86.21			48022475001	0.021	0.020	mg/Kg			u
026	133770	SAMPLE	200492-010		133770	Soil	15-JAN-2008 15:37	1.0	96.15			48022475001	0.041	0.020	mg/Kg			u
027	133770	SAMPLE	200492-011		133770	Soil	15-JAN-2008 15:39	1.0	90.91			48022475001	0.097	0.020	mg/Kg			u
028	133770	SAMPLE	200492-012		133770	Soil	15-JAN-2008 15:42	1.0	87.72			48022475001	0.077	0.020	mg/Kg			u
029	133770	SAMPLE	200492-013		133770	Soil	15-JAN-2008 15:44	1.0	87.72			48022475001	0.034	0.020	mg/Kg			u
030	133770	SAMPLE	200503-001		133770	Miscel	15-JAN-2008 15:46	1.0	87.72			48022475001	0.45	0.020	mg/Kg			u
031	133770	CCV					15-JAN-2008 15:49	1.0	1.0	4	5.000	48022475001	5.400		ug/L	108		
032	133770	CCB					15-JAN-2008 15:51	1.0	1.0			48022475001	ND	0.20	ug/L			
033	133770	SAMPLE	200520-005		133770	Soil	15-JAN-2008 15:54	1.0	87.72			48022475001	0.015 J	0.020	mg/Kg			u
034	133770	SAMPLE	200522-001		133770	Soil	15-JAN-2008 15:56	1.0	92.59			48022475001	0.015 J	0.020	mg/Kg			u
035	133770	CCV					15-JAN-2008 15:58	1.0	1.0	5	7.500	48022475001	7.950		ug/L	106		
036	133770	CCB					15-JAN-2008 16:00	1.0	1.0			48022475001	ND	0.20	ug/L			

Stds used: 1=S8164 2=S8166 3=S8167 4=S8168 5=S8169
Flags used: u=use

Analyst: _____ Date: 1/15/08

Curtis & Tompkins, Ltd.

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Field ID:	1065BC402 A-D COMP	Batch#:	133966
Lab ID:	200520-005	Sampled:	01/11/08
Matrix:	Soil	Received:	01/14/08
Units:	%	Analyzed:	01/21/08

Result	RL
3	1

RL= Reporting Limit

28.0

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture			
Lab #:	200520	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	133966
MSS Lab ID:	200530-001	Sampled:	01/10/08
Lab ID:	QC424906	Received:	01/15/08
Matrix:	Soil	Analyzed:	01/21/08

MSS Result	Result	RL	RPD	Lim
10.78	11.33	1.000	5	15

RL= Reporting Limit
RPD= Relative Percent Difference

29.0

Percent Moisture Summary Report

Batch: 133966
Date: 01/21/08
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
200476-001	11.4883	19.1605	17.2419	75	25
200476-002	11.0696	18.0265	17.5552	93	7
200476-003	11.3329	17.2015	16.6028	90	10
200476-004	10.8758	17.8657	16.6818	83	17
200476-005	11.2339	18.6351	17.7942	89	11
200476-006	11.2904	18.2396	17.4901	89	11
200476-007	11.3297	18.8028	17.8452	87	13
200476-008	11.6584	18.6345	18.0069	91	9
200476-009	11.2716	18.2938	17.3353	86	14
200476-010	11.3390	19.8490	18.7089	87	13
200520-005	11.1401	17.1393	16.9736	97	3
200530-001	11.3783	17.8485	17.1510	89	11
QC424906 of 200530-001	11.0777	18.5096	17.6673	89	11
			RPD:	0.6%	5.0%

1-21-08

B# 133966

SAMPLE	SL	DISH	DISH WT.	SAMPLE WT.	FINAL WT.	COMMENTS
BW	QC	CT12	11.3827	Ø	11.3832	
200476-001	A	B20	11.4883	19.1605	17.2419	
-002		573	11.0696	18.0265	17.5552	
-003		CT27	11.3329	17.2015	16.6028	
-004		MAD	10.8758	17.8657	16.6818	
-005		5RY	11.2339	18.1351	17.7942	
-006		CT28	11.2904	18.2396	17.4901	
-007		C28	11.3297	18.8028	17.8452	
-008		VIET	11.6584	18.6345	18.0069	
-009		D31	11.2716	18.2938	17.3353	
↓ -010		CT20	11.3390	19.8490	18.7089	
200520-005		IX	11.1401	17.1393	16.9736	temp at -65 psi each
200530-001		CT4	11.3783	17.8485	17.1510	
SDUP ↓ -001		JP8	11.0777	18.5096	17.6673	

TIME IN: 9. PM
OUT: 11-AM
OVEN TEMP: 105°C

Continued on Page

Read and Understood By

Signed

1-21-08
Date

Signed

1/22/08
Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 133966
Date Started: 21-JAN-2008
Batched by : Victor Vergara

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
200476-001			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200476-002			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200476-003			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200476-004			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200476-005			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200476-006			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200476-007			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200476-008			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200476-009			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200476-010			Shaw E&I	Soil	MOISTURE	22-JAN-2008
200520-005			Mactec, Inc.	Soil	MOISTURE	22-JAN-2008
200530-001			Erler & Kalinowski	Soil	MOISTURE	22-JAN-2008
QC424906	SDUP	of 200530-001		Soil	MOISTURE	

PROJECT NIST HEF AE 2000 Notebook No: 152

Continued From Page ∅

DATE	0.2000	1.0000	10.0000	50.0000	Initial	Weight Set
1-4-08	0.2000	1.0000	10.0000	50.0000	√√	35298
1-5-08	0.2000	1.0000	10.0000	50.0000	↑↑	35298
1-6-08	0.2000	1.0000	10.0000	50.0000	↑↑	35298
1-9-08	0.2000	1.0000	10.0000	50.0000	√√	352998
1-10-08	0.2000	1.0000	10.0000	50.0000	√√	35298
1-11-08	0.2000	1.0000	10.0000	50.0000	√√	35298
1-12-08	0.2000	1.0000	10.0000	50.0000	↑↑	10827
1-13-08	0.2000	1.0000	10.0000	50.0000	↑↑	10827
1-14-08	0.2000	1.0000	10.0000	50.0000	√√	10827
1-15-08	0.2000	1.0000	10.0000	50.0000	√√	10827
1-16-08	0.2000	1.0000	10.0000	50.0000	√√	10827
1-17-08	0.2000	1.0000	10.0000	50.0000	√√	10827
1-18-08	0.2000	1.0000	10.0000	50.0000	√√	10827
1-19-08	0.2000	1.0000	10.0000	50.0000	↑↑	10827
1-21-08	0.2000	1.0000	10.0000	50.0000	√√	10827
1-22-08	0.2000	1.0000	10.0000	50.0000	√√	10827

Continued on Page

Read and Understood By

Signed Date Signed Date

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 8

Date	Initials	Temp (*C)
12-22-07	HO	105°C
12-23-07	HO	105°C
12-26-07	HO	105°C
12-27-07	VV	105°C
12-28-07	VV	103°C
12-29-07	HO	104°C
1-2-08	HO	104°C
1-3-08	VV	104°C
1-4-08	VV	103°C
1-5-08	HO	105°C
1-6-08	HO	105°C
1-9-08	VV	104°C
1-10-08	VV	103°C
1-11-08	VV	104°C
1-12-08	HO	103°C
1-13-08	HO	103°C
1-14-08	VV	103°C
1-15-08	VV	103°C
1-16-08	VV	105°C
1-17-08	VV	105°C
1-18-08	VV	105°C
1-19-08	HO	105°C
1-21-08	VV	105°C
1-22-08	VV	105°C

Date	Initials	Temp (*C)

ORGANOPHOSPHORUS PESTICIDES

/

CHLORINATED HERBICIDES

: 00208

Calscience
Environmental
Laboratories, Inc.

January 28, 2008

Anna M. Pajarillo
Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Subject: **Calscience Work Order No.:** **08-01-0945**
Client Reference: **200520**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/15/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Vikas Patel

Calscience Environmental
Laboratories, Inc.
Vikas Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Case Narrative for 08-01-0945

Sample Condition on Receipt

One soil sample was received as part of this Work Order on January 15, 2008. The sample was transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.0°C) of the sample was measured upon arrival in the laboratory and was within acceptable limits. The sample was logged into the Laboratory Information Management System (LIMS), given laboratory identification number, and stored in refrigeration units pending analysis.

Tests Performed

Testing was performed in accordance to the chain-of-custody instructions. The following tests were performed on the sample as requested:

Chlorinated Herbicides by EPA 8151A
Organophosphorus Pesticides by EPA 8141A

Data Summary

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents.

Calscience Environmental Laboratories, Inc.

Case Narrative for 08-01-0945

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exceptions presented in Table B below.

Table B: Matrix Spike Recoveries outside acceptable limits	
Method: EPA 8151A	
Batch #	Analyte(s)
080117S18	2,4 –D and 2,4,5-T

Note that the corresponding Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) recovery were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for the sample were within acceptable control limits.

Calscience Environmental Laboratories, Inc.

Analytical Report

Curtis & Tompkins, Ltd.	Date Received: 01/15/08
2323 Fifth Street	Work Order No: 08-01-0945
Berkeley, CA 94710-2407	Preparation: EPA 3545
	Method: EPA 8141A
Project: 200520	Units: mg/kg
	Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1065BC402 A-D COMP	**08-01-0945-1-A**	**01/11/08**	**Solid**	**GC 26**	**01/16/08**	**01/16/08 21:26**	**080116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	120	30-130	

Method Blank	095-01-017-410	N/A	Solid	GC 26	01/16/08	01/17/08 11:31	080116L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	102	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 200520

Date Received:	01/15/08
Work Order No:	08-01-0945
Preparation:	EPA 8151A
Method:	EPA 8151A
Units:	ug/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1065BC402 A-D COMP	**08-01-0945-1-A**	**01/11/08**	**Solid**	**GC 0**	**01/17/08**	**01/18/08 19:07**	**080117L18**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	70	30-130	

Method Blank	**095-01-033-705**	**N/A**	**Solid**	**GC 0**	**01/17/08**	**01/18/08 15:44**	**080117L18**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	81	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 01/15/08
Work Order No: 08-01-0945
Preparation: EPA 3545
Method: EPA 8141A

Project 200520

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-01-1016-17	**Solid**	**GC 26**	**01/16/08**	**01/16/08**	**080116S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethoprop	62	62	30-130	0	0-30	
Fensulfothion	69	67	30-130	3	0-30	
Phorate	74	71	30-130	5	0-30	
Ronnel	58	54	30-130	7	0-30	
Tokuthion	57	56	30-130	1	0-30	
Trichloronate	57	56	30-130	2	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 01/15/08
Work Order No: 08-01-0945
Preparation: EPA 8151A
Method: EPA 8151A

Project 200520

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-01-1021-3	**Solid**	**GC 0**	**01/17/08**	**01/19/08**	**080117S18**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
2,4-D	66	45	30-130	37	0-30	4
2,4,5-T	86	61	30-130	35	0-30	4
2,4-DB	51	46	30-130	10	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Curtis & Tompkins, Ltd.	Date Received: N/A
2323 Fifth Street	Work Order No: 08-01-0945
Berkeley, CA 94710-2407	Preparation: EPA 3545
	Method: EPA 8141A

Project: 200520

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-017-410	Solid	GC 26	01/16/08	01/16/08	080116L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethoprop	94	89	30-130	6	0-30	
Fensulfothion	78	73	30-130	6	0-30	
Phorate	106	100	30-130	6	0-30	
Ronnel	84	78	30-130	8	0-30	
Tokuthion	93	93	30-130	1	0-30	
Trichloronate	96	91	30-130	5	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: N/A
Work Order No: 08-01-0945
Preparation: EPA 8151A
Method: EPA 8151A

Project: 200520

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-033-705	Solid	GC 0	01/17/08	01/18/08	080117L18

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
2,4-D	86	92	30-130	7	0-30	
2,4,5-T	112	117	30-130	5	0-30	
2,4-DB	98	100	30-130	2	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-01-0945

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

LEVEL III

Project Number: 200520
Site: Bldg 1065 Presidio

Subcontract Laboratory:
Cal Science
7440 Lincoln Way
Garden Grove, CA 92841-1432
(714) 895-5494
ATTN: Vik Patel

Results due: Report Level: III

Please send report to: Anna M. Pajarillo
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
1065BC402 A-D COMP	01/11 11:00 -001,-002,-003,-004	Soil	8141	200520-005	comp
1065BC402 A-D COMP	01/11 11:00 -001,-002,-003,-004	Soil	8150	200520-005	comp

Notes:	Relinquished By:	Received By:
	Kristie Wellbrock	Wabatu CE
	Date/Time: 1/14/08 1330	Date/Time: 1-15-08 0800

CALIFORNIA OVERNIGHT
C10129000053209

Signature on this form constitutes a firm Purchase Order for the services requested above.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 01 - 0945

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: CURTIS + TOMPKINS DATE: 1-15-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

3.0 °C Temperature blank.
WB 3.0 °C IR thermometer.
_____ Ambient temperature.

Initial: WB

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: _____

Initial: WB

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: WB

COMMENTS:

: 00220

Calscience Environmental Laboratories, Inc.

EPA 8141A Organophosphorus Pesticides

Curtis & Tompkins, Ltd.

CEL #08-01-0945

200520

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

Page 1 of 1

START D = DATE T = TIME	END D = DATE T = TIME	S = SOIL A = AQUEOUS O = OIL W = WIPE F = FILTER	1 = 3510 SEP 2 = 3520 C-LL 4 = 3545 PFE 5 = 3550 SON 8 = 3580 DIL	CEL ID #	TEST METHOD	SAMPLE INITIAL W (g) / V (mL)	SAMPLE FINAL V (mL)	MB/LCS/MS BATCH #	ANALYST	COMMENTS
D) 1-16-08	D) 1-16-08	S A O	1 2 (4)	CK - 01 - 0940 - 1A	8141	10.0	10	080116 L02	CZ	
T) 8:30	T) N/A	W F	5 8							
D)	D)	S A O	1 2 (4)	- - 0945 - 1A		10.2				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 (4)	- - 1016 - 1A		10.0			WWL/MW	
T)	T)	W F	5 8							
D)	D)	S A O	1 2 (4)	- - - 1A		10.1				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 (4)	- - - 1A		10.1				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 (4)	- - 1021 - 1A		9.99				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 (4)	- - - 2A		10.0				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 (4)	- - - 3A		10.1				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							

080222

CEL ID #	SURROGATE STANDARD: STANDARD ID	SURROGATE STANDARD: a) C (ppm) b) V (mL)	SPIKE STANDARD (LCS/LCSD/MS/MSD): STANDARD ID	SPIKE STANDARD: a) C (ppm) b) V (mL)	EXTRACTION SOLVENT: NAME	EXTRACTION SOLVENT: a) LOT # / ID b) V (mL)	EXCHANGE SOLVENT: NAME	EXCHANGE SOLVENT: a) LOT # / ID b) V (mL)	ANALYST	COMMENTS
08-01-0940-1	CL005-08-09	a) 1000 b) 0.04		a) b)	CH2Cl2	a) CL005-14-04 b) 47	Hexane	a) CL005-14-9 b) 10	CL	
-1-0945-1		a) b)		a) b)		a) b)		a) b)	↓	
--1016-16		a) b)		a) b)		a) b)		a) b)	WW 7/11	
--↓-17		a) b)		a) b)		a) b)		a) b)		
--↓-18		a) b)		a) b)		a) b)		a) b)		
-↓-1021-1-3		a) b)		a) b)		a) b)		a) b)		
-BLK-		a) b)	↓	a) b)		a) b)		a) b)		
-LCS/LCSD-		a) b)	CL004-98-8	a) 200 b) 0.2		a) b)		a) b)		
08-01-0945-MS/D	↓	a) b)	↓	a) b)	↓	a) b)	↓	a) b)	↓	
-1-1016-17mg		a) b)		a) b)		a) b)		a) b)		
--↓-17mg		a) b)		a) b)		a) b)		a) b)		
--1--		a) b)		a) b)		a) b)		a) b)		
---		a) b)		a) b)		a) b)		a) b)		
---		a) b)		a) b)		a) b)		a) b)		
---		a) b)		a) b)		a) b)		a) b)		
---		a) b)		a) b)		a) b)		a) b)		
---		a) b)		a) b)		a) b)		a) b)		
---		a) b)		a) b)		a) b)		a) b)		
---		a) b)		a) b)		a) b)		a) b)		
---		a) b)		a) b)		a) b)		a) b)		

Reviewed by: _____ Date ____/____/____

INITIAL CALIBRATION QUALITY CONTROL SHEET FOR METHOD : EPA 8141A

INSTRUMENT NAME: GC 26

INITIAL BATCH: 071030

INITIAL DATE ANALYZED: 10/30/07

REVIEWED BY:

DATE REVIEWED:

CCV BATCH: 080116

CCV DATE ANALYZED: 1/16/08

COMPOUND NAME	INITIAL RF	INITIAL RSD	RSD ALLOWED	CCV RF	% DIFF	% DIF ALLOWED	STATUS
Azinphos Methyl	2.522E+001	5	0-20	2.650E+001	5	0-15	SAT
Bolstar	3.441E+001	8	0-20	3.325E+001	3	0-15	SAT
Chlorpyrifos	5.384E+001	18	0-20	5.200E+001	3	0-15	SAT
Coumaphos	2.916E+001	4	0-20	2.825E+001	3	0-15	SAT
Demeton-o	3.149E+001	4	0-20	3.450E+001	10	0-15	SAT
Demeton-s	8.580E+000	13	0-20	8.250E+000	4	0-15	SAT
Diazinon	4.841E+001	2	0-20	4.825E+001	0	0-15	SAT
Dichlorvos	6.639E+001	8	0-20	5.900E+001	11	0-15	SAT
Disulfoton	4.115E+001	4	0-20	4.075E+001	1	0-15	SAT
Ethoprop	4.861E+001	3	0-20	4.875E+001	0	0-15	SAT
Fensulfothion	2.615E+001	6	0-20	2.725E+001	4	0-15	SAT
Fenthion	3.471E+001	3	0-20	3.450E+001	1	0-15	SAT
Merphos	3.655E+001	8	0-20	3.175E+001	13	0-15	SAT
Methyl Parathion	3.695E+001	2	0-20	3.800E+001	3	0-15	SAT
Mevinphos	2.636E+001	5	0-20	2.950E+001	12	0-15	SAT
Naled	2.111E+001	19	0-20	2.175E+001	3	0-15	SAT
Phorate	3.816E+001	3	0-20	4.200E+001	10	0-15	SAT
Ronnel	4.831E+001	19	0-20	4.675E+001	3	0-15	SAT
Stirophos	3.765E+001	26	0-20	3.400E+001	10	0-15	UNSAT
Tokuthion	5.126E+001	15	0-20	4.575E+001	11	0-15	SAT
Trichloronate	5.192E+001	18	0-20	4.875E+001	6	0-15	SAT

Ave 6

Sequence: C:\HPCHEM\1\SEQUENCE\071030.S

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	famphur 10ppm	8141	1	Sample		07103001
2	Vial 2	4ppm8141	8141	1	Sample		07103002
3	Vial 3	10ppm 8141	8141	1	Sample		07103003
4	Vial 4	8ppm 8141	8141	1	Sample		07103004
5	Vial 5	4ppm 8141	8141	1	Sample		07103005
6	Vial 6	2ppm 8141	8141	1	Sample		07103006
7	Vial 7	0.5ppm 8141	8141	1	Sample		07103007
8	Vial 8	4ppm 8141 icv	8141	1	Sample		07103008
9	Vial 9	PE1ml-1L- 5ML	8141	1	Sample		07103009
10	Vial 10	QC 1ML-1L-5ML	8141	1	Sample		07103010
11	Vial 11	PE 0.1ml/0.3ml	8141	1	Sample		07103011
12	Vial 12	QC 0.1ml/0.3ml	8141	1	Sample		07103012
13	Vial 13	PE 50ul/0.5ml	8141	1	Sample		07103013
14	Vial 14	QC 50ul/0.5ml	8141	1	Sample		07103014
15	Vial 15	4ppm	8141	1	Sample		07103015
16	Vial 99	standby	STANDBY	1	Sample		07103099

Sequence Table (Back Injector):

No entries - empty table!

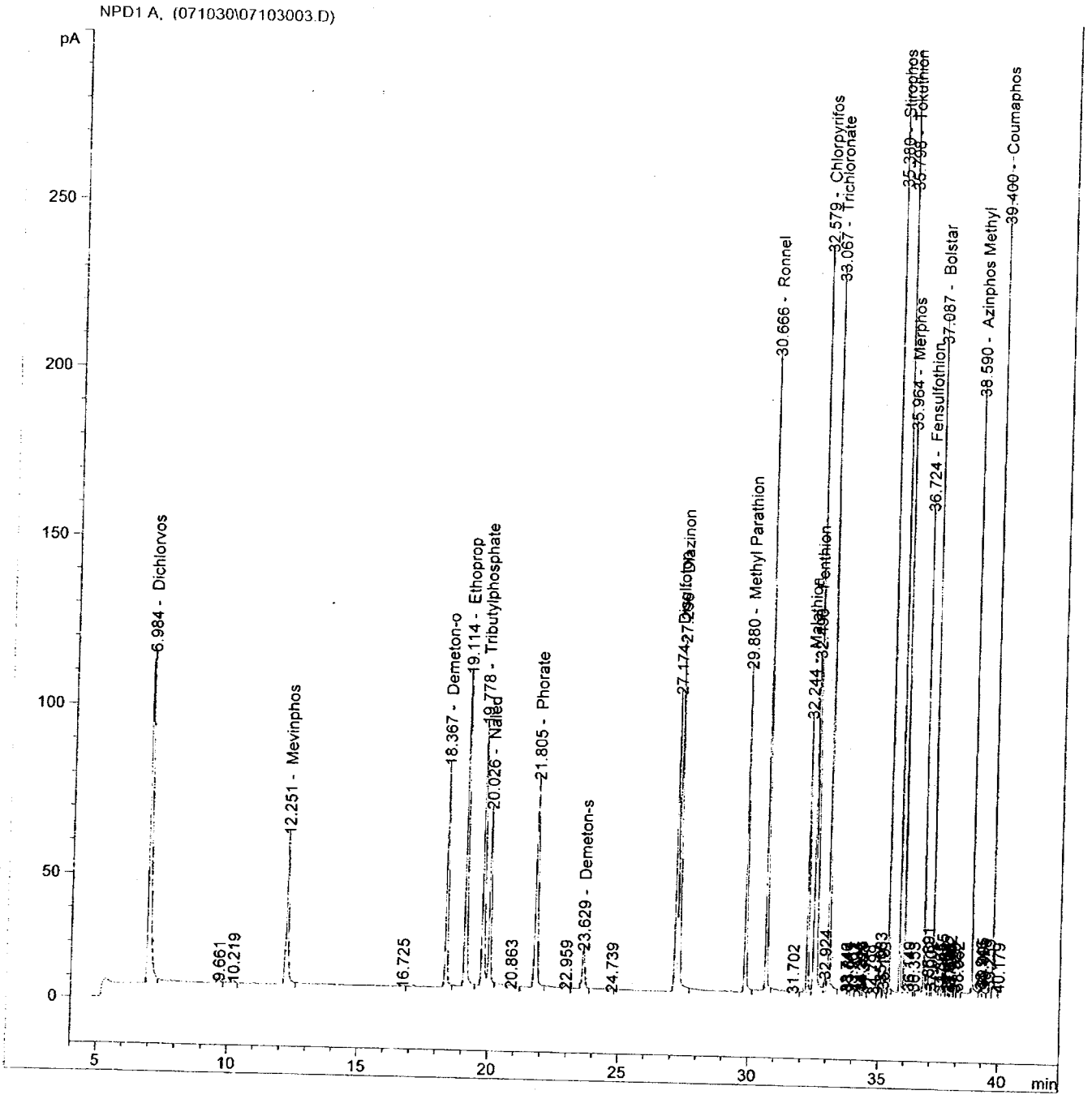
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103003.D
Operator :
Instrument : GC 26
Sample Name : 10ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 1:14:19 PM
Report Created on: 01 Nov 07 11:22 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 3
Injection Number : 1
Sequence Line : 2
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD1 A C:\HPCHEM\1\DATA\071030\07103003.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.984	712	MM	0.120		10.727	Dichlorvos
12.251	268	PB	0.087		10.132	Mevinphos
18.367	307	PB	0.074		9.709	Demeton-o
19.114	473	PB	0.079		9.726	Ethoprop
19.778	415	MV	0.089		9.467	Tributylphosphate
20.026	253	VM	0.080		11.917	Naled
21.805	372	PB	0.093		9.718	Phorate
23.629	79	BB	0.098		9.461	Demeton-s
27.174	396	PV	0.070		9.621	Disulfoton
27.296	477	VB	0.072		9.836	Diazinon
29.880	365	PB	0.060		9.938	Methyl Parathion
30.666	589	VB	0.050		12.140	Ronnel
32.244	289	VV	0.057		9.545	Malathion
32.496	342	VV	0.052		9.829	Fenthion
32.579	657	VV	0.047		12.252	Chlorpyrifos
33.067	640	VB	0.047		12.368	Trichloronate
35.380	495	MM	0.028		13.197	Stirophos
35.798	609	PV	0.025		11.918	Tokuthion
35.964	336	VV	0.033		9.220	Merphos
36.724	246	VV	0.026		9.362	Fensulfothion
37.087	318	VB	0.027		9.209	Bolstar
38.590	242	VB	0.022		9.658	Azinphos Methyl
39.400	308	VB	0.022		10.600	Coumaphos


NPD1 A, (071030\07103003.D)
pA
250
200
150
100
50
0
6.984 - Dichlorvos
9.661
10.219
12.251 - Mevinphos
16.725
18.367 - Demeton-o
19.114 - Ethoprop
20.026 - Naled
20.778 - Tributylphosphate
20.863
21.805 - Phorate
22.959
23.629 - Demeton-s
24.739
27.174
29.880 - Methyl Parathion
30.666 - Ronnel
31.702
32.244 - Malathion
32.924
32.579 - Chlorpyrifos
33.087 - Trichloronate
35.964 - Merphos
36.724 - Fensulfothion
37.087 - Bolstar
38.590 - Azinphos Methyl
39.490 - Coumaphos
5
10
15
20
25
30
35
40
min

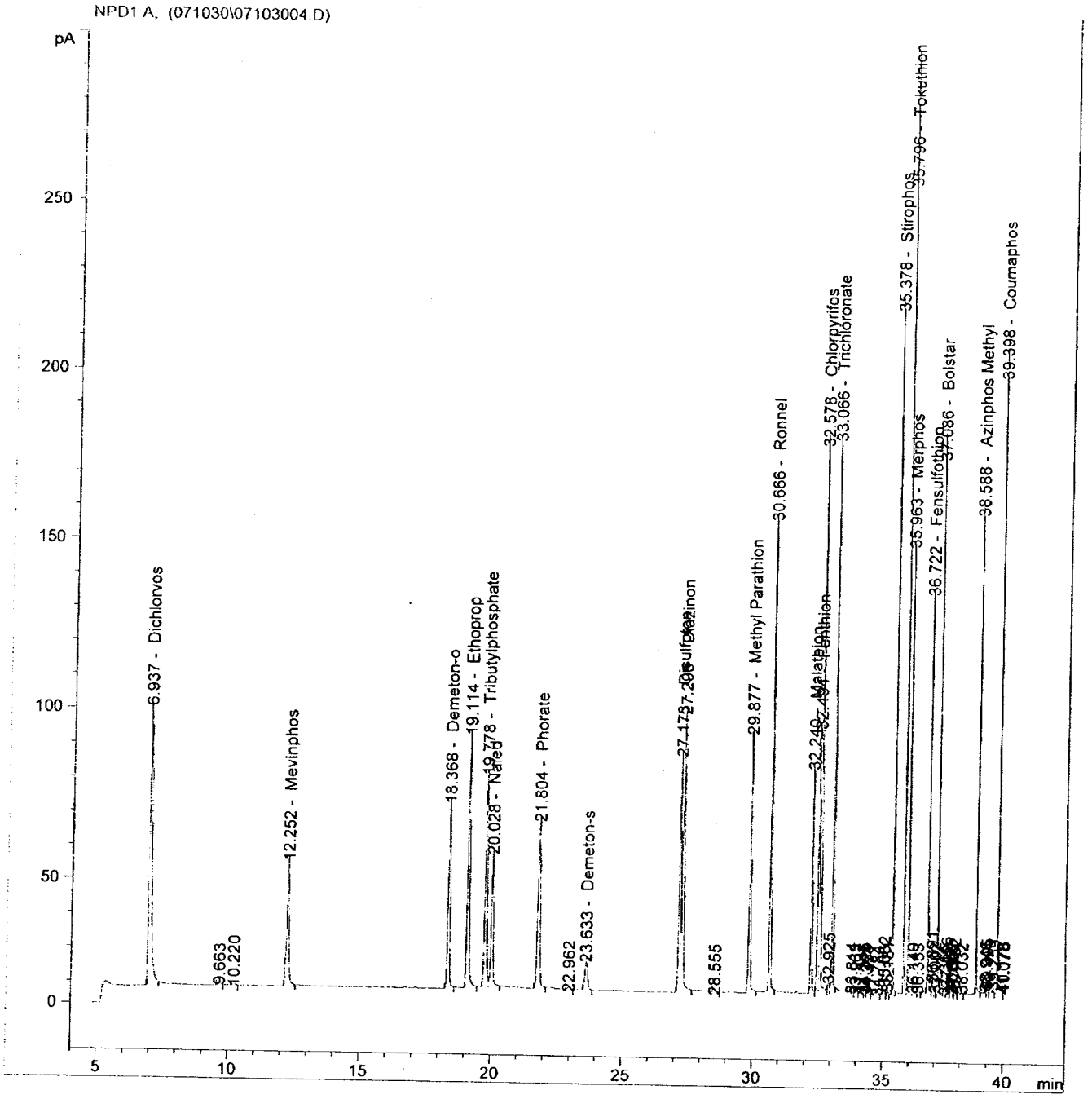
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103004.D
Operator :
Instrument : GC 26
Sample Name : 8ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 2:00:51 PM
Report Created on: 01 Nov 07 11:23 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 4
Injection Number : 1
Sequence Line : 3
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD1 A C:\HPCHEM\1\DATA\071030\07103004.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.937	570MM		0.114		8.586	Dichlorvos
12.252	216BB		0.083		8.153	Mevinphos
18.368	252PB		0.071		7.964	Demeton-o
19.114	382PB		0.079		7.851	Ethoprop
19.778	339PV		0.084		7.734	Tributylphosphate
20.028	198VB		0.076		9.358	Naled
21.804	297PB		0.091		7.772	Phorate
23.633	60BB		0.101		7.130	Demeton-s
27.173	317PV		0.071		7.698	Disulfoton
27.295	379VB		0.070		7.806	Diazinon
29.877	292PB		0.058		7.934	Methyl Parathion
30.666	439VB		0.049		9.057	Ronnel
32.240	229BV		0.054		7.552	Malathion
32.494	271VV		0.054		7.784	Fenthion
32.578	482VV		0.045		8.983	Chlorpyrifos
33.066	463VB		0.045		8.943	Trichloronate
35.378	360PB		0.029		9.611	Stirophos
35.796	453PV		0.025		8.871	Tokuthion
35.963	269VV		0.034		7.379	Merphos
36.722	197VV		0.027		7.480	Fensulfothion
37.086	254VB		0.027		7.341	Bolstar
38.588	189VB		0.022		7.538	Azinphos Methyl
39.398	236BB		0.021		8.141	Coumaphos


NPD1 A, (071030\07103004.D)
pA
250
200
150
100
50
0
5
10
15
20
25
30
35
40
min
6.937 - Dichlorvos
9.663
10.220
12.252 - Mevinphos
18.368 - Demeton-o
19.114 - Ethoprop
20.028 - Naled
20.178 - Tributylphosphate
21.804 - Phorate
22.962
23.633 - Demeton-s
28.555
29.877 - Methyl Parathion
30.666 - Ronnel
32.578 - Chlorpyrifos
33.066 - Trichloronate
35.378 - Stirophos
35.796 - Tokuthion
35.963 - Merphos
36.722 - Fensulfothion
37.086 - Bolstar
38.588 - Azinphos Methyl
39.398 - Coumaphos

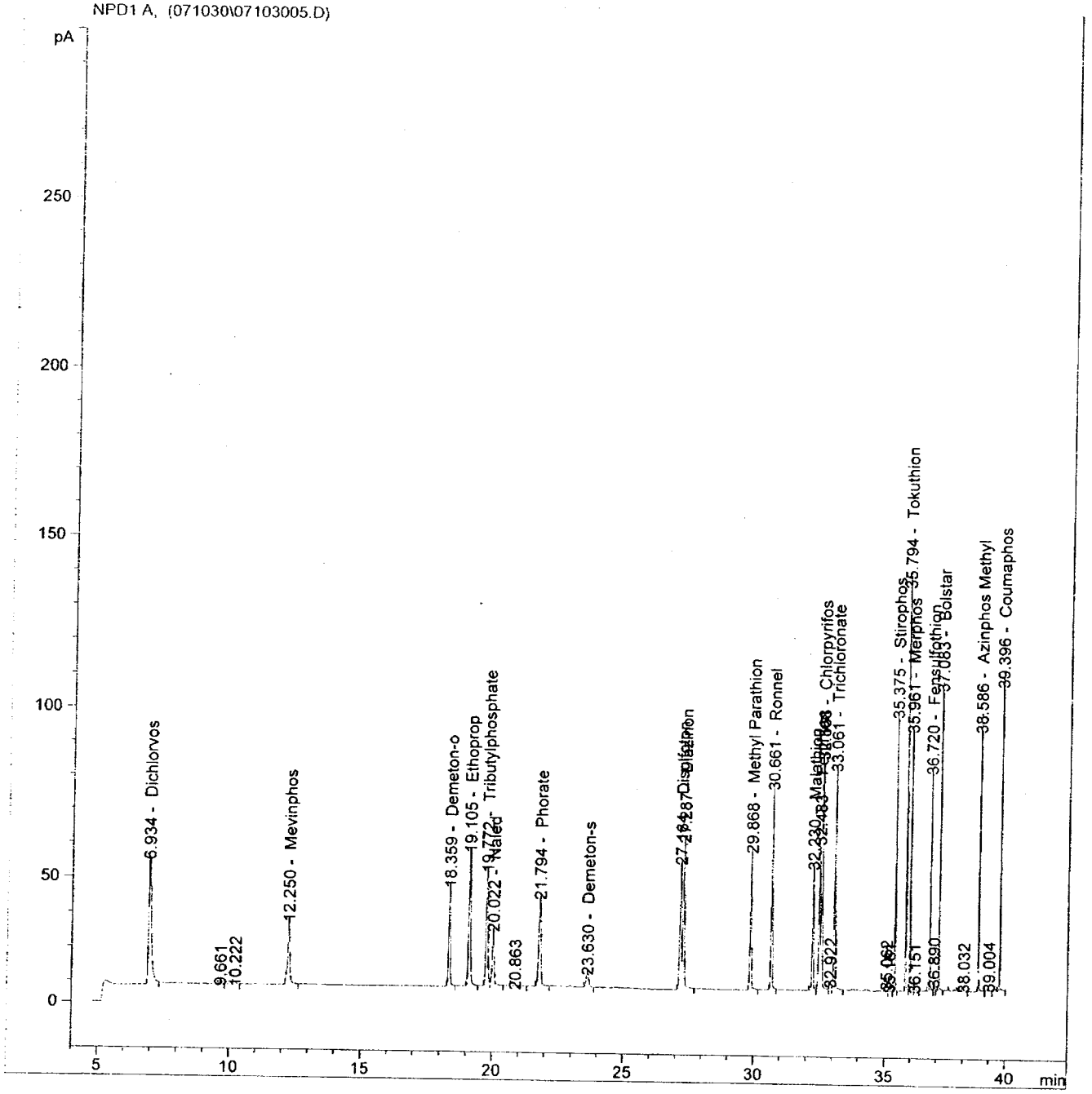
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103005.D
Operator :
Instrument : GC 26
Sample Name : 4ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 2:47:25 PM
Report Created on: 01 Nov 07 11:25 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 5
Injection Number : 1
Sequence Line : 4
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD1 A C:\HPCHEM\1\DATA\071030\07103005.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.934	268MM		0.119		4.038	Dichlorvos
12.250	110PB		0.082		4.156	Mevinphos
18.359	131PB		0.071		4.133	Demeton-o
19.105	198PB		0.078		4.066	Ethoprop
19.772	178PV		0.083		4.056	Tributylphosphate
20.022	86VB		0.076		4.047	Naled
21.794	156PB		0.093		4.091	Phorate
23.630	32BB		0.099		3.768	Demeton-s
27.164	166PV		0.070		4.033	Disulfoton
27.287	196VB		0.068		4.041	Diazinon
29.868	151PB		0.059		4.110	Methyl Parathion
30.661	193VB		0.050		3.981	Ronnel
32.230	122VV		0.053		4.043	Malathion
32.483	142VV		0.052		4.069	Fenthion
32.568	213VV		0.046		3.977	Chlorpyrifos
33.061	207VB		0.049		4.007	Trichloronate
35.375	147VB		0.029		3.910	Stirophos
35.794	201BV		0.028		3.930	Tokuthion
35.961	146VV		0.030		3.999	Merphos
36.720	106VV		0.027		4.028	Fensulfothion
37.083	136VB		0.024		3.926	Bolstar
38.586	105VB		0.022		4.180	Azinphos Methyl
39.396	118VV		0.021		4.059	Coumaphos


NPD1 A, (071030\07103005.D)
pA
250
200
150
100
50
0
6.934 - Dichlorvos
9.661
10.222
12.250 - Mevinphos
18.359 - Demeton-o
19.105 - Ethoprop
19.772 - Tributylphosphate
20.022 - Naled
20.863
21.794 - Phorate
23.630 - Demeton-s
29.868 - Methyl Parathion
30.661 - Ronnel
33.061 - Trichloronate
35.375 - Stirophos
35.794 - Tokuthion
36.151
36.720 - Fensulfothion
36.890
37.083 - Bolstar
38.032
38.586 - Azinphos Methyl
39.004
39.396 - Coumaphos
5
10
15
20
25
30
35
40
min

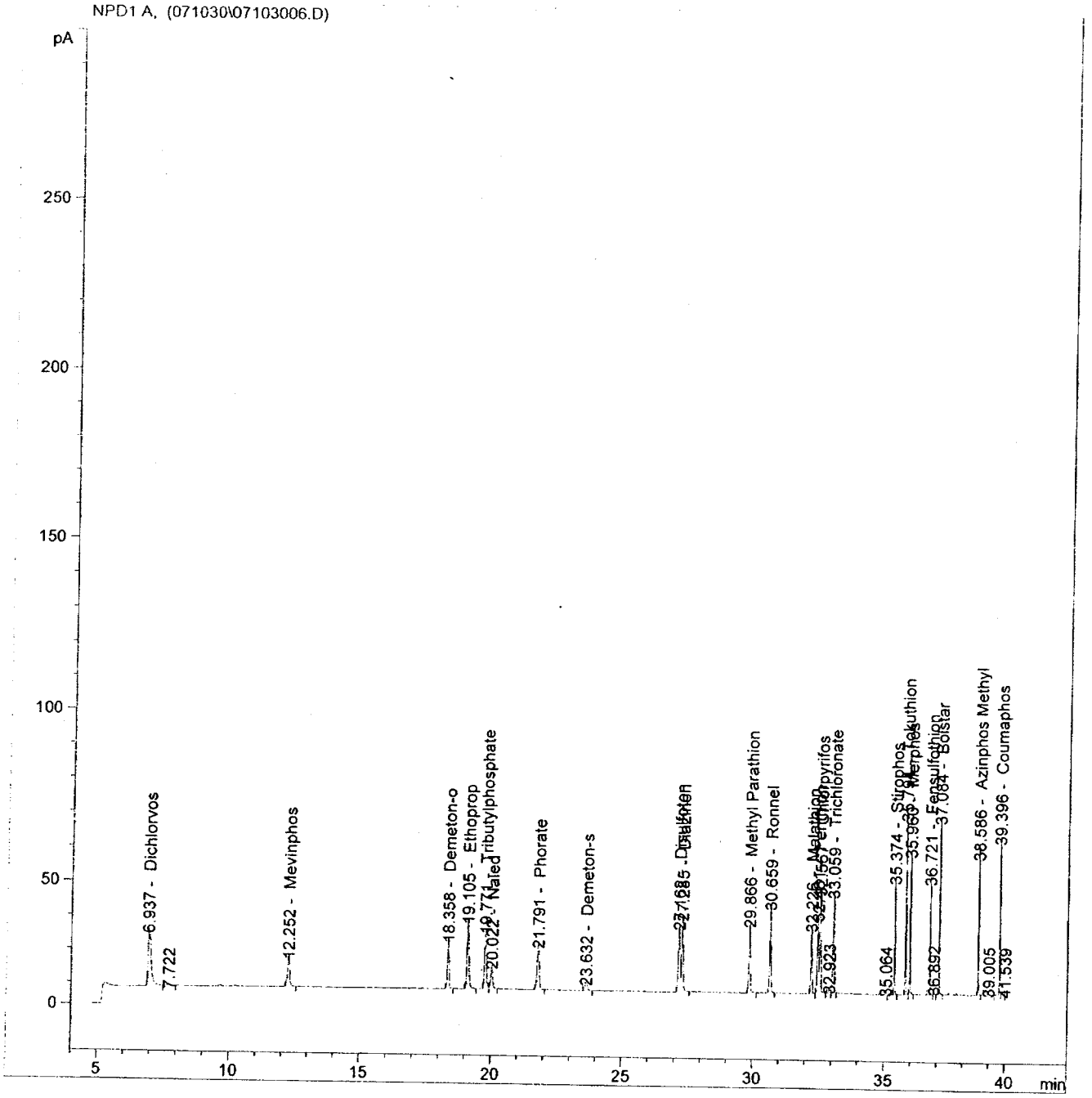
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103006.D
Operator :
Instrument : GC 26
Sample Name : 2ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 3:34:00 PM
Report Created on: 01 Nov 07 11:25 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 5
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD1 A C:\HPCHEM\1\DATA\071030\07103006.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.937	129MM		0.126		1.947	Dichlorvos
12.252	53PB		0.081		1.987	Mevinphos
18.358	65PB		0.069		2.060	Demeton-o
19.105	101PB		0.077		2.083	Ethoprop
19.771	90BV		0.078		2.064	Tributylphosphate
20.022	36VB		0.080		1.714	Naled
21.791	79PB		0.090		2.075	Phorate
23.632	19PB		0.102		2.208	Demeton-s
27.162	86PV		0.069		2.080	Disulfoton
27.285	100VB		0.068		2.052	Diazinon
29.866	76BB		0.059		2.057	Methyl Parathion
30.659	87VB		0.052		1.800	Ronnel
32.226	63PV		0.052		2.082	Malathion
32.481	72VV		0.049		2.065	Fenthion
32.567	96VB		0.049		1.782	Chlorpyrifos
33.059	92VB		0.048		1.771	Trichloronate
35.374	62PB		0.029		1.663	Stirophos
35.794	93PV		0.029		1.818	Tokuthion
35.960	78VB		0.030		2.130	Merphos
36.721	54VV		0.027		2.056	Fensulfothion
37.084	73VB		0.023		2.126	Bolstar
38.586	52VB		0.021		2.090	Azinphos Methyl
39.396	56BB		0.020		1.923	Coumaphos


NPD1 A, (071030\07103006.D)
pA
250
200
150
100
50
0
6.937 - Dichlorvos
7.722
12.252 - Mevinphos
18.358 - Demeton-o
19.105 - Ethoprop
20.022 - Naled
20.771 - Tributylphosphate
21.791 - Phorate
23.632 - Demeton-s
29.866 - Methyl Parathion
30.659 - Ronnel
33.059 - Trichloronate
35.064
35.374 - Stirophos
36.721 - Fensulfothion
37.084 - Bolstar
38.586 - Azinphos Methyl
39.005
39.396 - Coumaphos
41.539
5
10
15
20
25
30
35
40
min

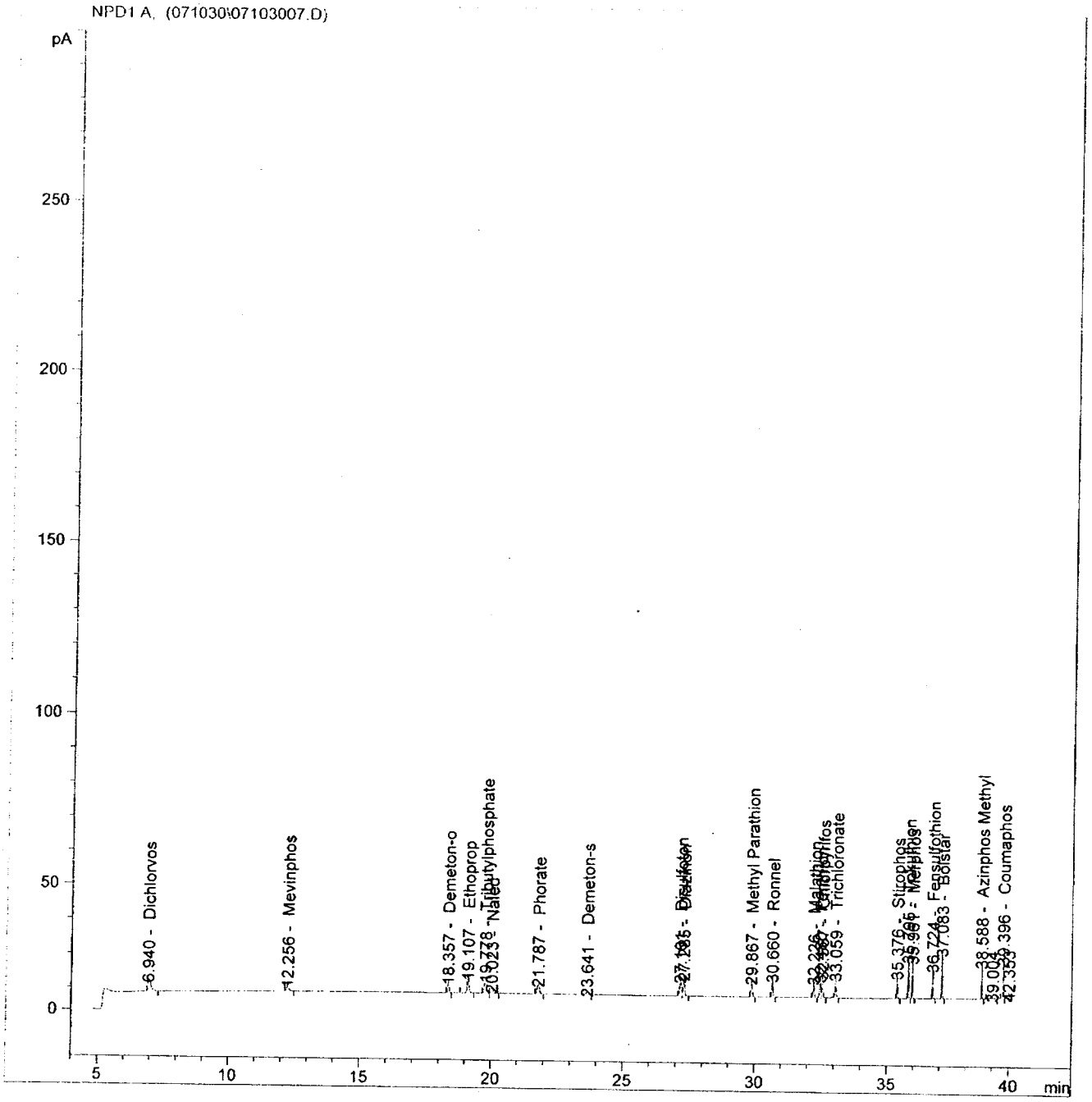
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103007.D
Operator :
Instrument : GC 26
Sample Name : 0.5ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 4:20:32 PM
Report Created on: 01 Nov 07 11:26 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 7
Injection Number : 1
Sequence Line : 6
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD1 A C:\HPCHEM\1\DATA\071030\07103007.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.940		29MM	0.124		0.436	Dichlorvos
12.256		12PB	0.081		0.468	Mevinphos
18.357		15PB	0.068		0.485	Demeton-o
19.107		24PB	0.074		0.494	Ethoprop
19.778		23MV	0.087		0.520	Tributylphosphate
20.023		8VM	0.095		0.385	Naled
21.787		19BB	0.090		0.498	Phorate
23.641		5PB	0.100		0.558	Demeton-s
27.161		21BV	0.069		0.514	Disulfoton
27.285		24VB	0.066		0.502	Diazinon
29.867		18PB	0.058		0.479	Methyl Parathion
30.660		18BB	0.053		0.379	Ronnel
32.226		16PP	0.049		0.525	Malathion
32.480		17BV	0.048		0.497	Fenthion
32.567		21VB	0.049		0.383	Chlorpyrifos
33.059		20VB	0.049		0.379	Trichloronate
35.376		13MM	0.031		0.335	Stirophos
35.795		21BB	0.029		0.404	Tokuthion
35.961		20BB	0.029		0.545	Merphos
36.724		14BB	0.025		0.547	Fensulfothion
37.083		19VB	0.023		0.558	Bolstar
38.588		13BB	0.021		0.501	Azinphos Methyl
39.396		14VB	0.021		0.473	Coumaphos


NPD1 A, (071030\07103007.D)
pA
250
200
150
100
50
0
6.940 - Dichlorvos
12.256 - Mevinphos
18.357 - Demeton-o
19.107 - Ethoprop
21.787 - Phorate
23.641 - Demeton-s
29.867 - Methyl Parathion
30.660 - Ronnel
33.059 - Trichloronate
38.588 - Azinphos Methyl
39.004 - Coumaphos
5
10
15
20
25
30
35
40
min

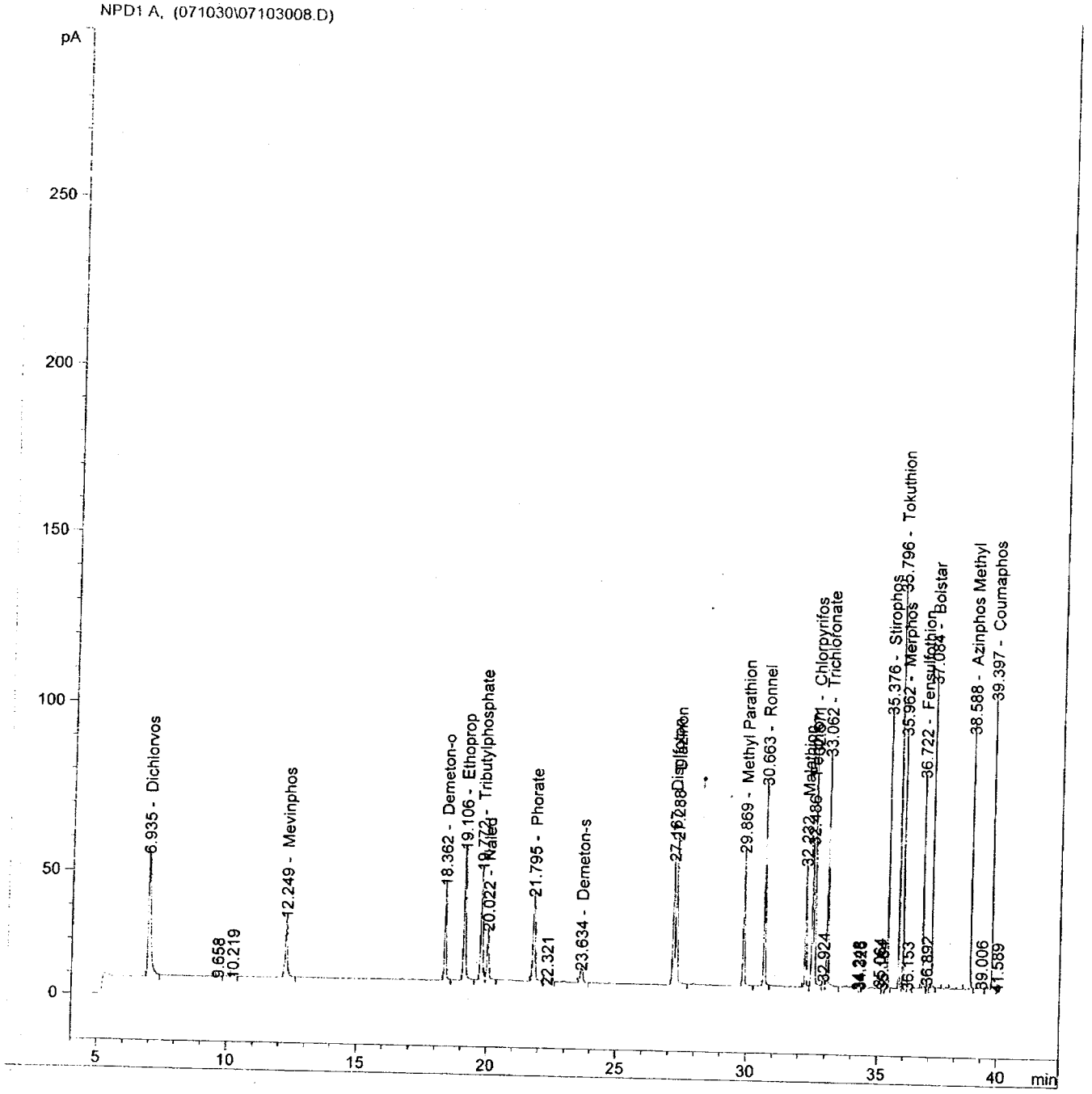
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103008.D
Operator :
Instrument : GC 26
Sample Name : 4ppm 8141 icv
Run Time Bar Code:
Acquired on : 10/30/2007 5:07:06 PM
Report Created on: 01 Nov 07 11:58 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 8
Injection Number : 1
Sequence Line : 7
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD1 A C:\HPCHEM\1\DATA\071030\07103008.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.935	264MM		0.118		3.981	Dichlorvos
12.249	108PB		0.085		4.093	Mevinphos
18.362	129PB		0.068		4.082	Demeton-o
19.106	197PB		0.076		4.062	Ethoprop
19.772	176PV		0.083		4.026	Tributylphosphate
20.022	80VB		0.077		3.781	Naled
21.795	158PB		0.094		4.133	Phorate
23.634	33PB		0.100		3.918	Demeton-s
27.167	166PV		0.069		4.024	Disulfoton
27.288	197VB		0.070		4.058	Diazinon
29.869	150BV		0.057		4.087	Methyl Parathion
30.663	193VB		0.051		3.982	Ronnel
32.232	123VV		0.053		4.052	Malathion
32.486	142VV		0.052		4.073	Fenthion
32.571	217VV		0.048		4.043	Chlorpyrifos
33.062	213VB		0.048		4.114	Trichloronate
35.376	148PB		0.029		3.942	Stirophos
35.796	203PV		0.028		3.970	Tokuthion
35.962	145VV		0.030		3.983	Merphos
36.722	104VV		0.027		3.947	Fensulfothion
37.084	135VB		0.023		3.892	Bolstar
38.588	100BV		0.021		3.974	Azinphos Methyl
39.397	114BB		0.021		3.929	Coumaphos


NPD1 A, (071030\07103008.D)
pA
250
200
150
100
50
0
6.935 - Dichlorvos
9.658
10.219
12.249 - Mevinphos
18.362 - Demeton-o
19.106 - Ethoprop
20.022 - Tributylphosphate
21.795 - Phorate
22.321
23.634 - Demeton-s
29.869 - Methyl Parathion
30.663 - Ronnel
33.062 - Trichlofonate
35.376 - Stirophos
35.796 - Tokuthion
35.962 - Merphos
36.722 - Fensulfothion
38.588 - Azinphos Methyl
39.006
39.397 - Coumaphos
41.589
5
10
15
20
25
30
35
40
min

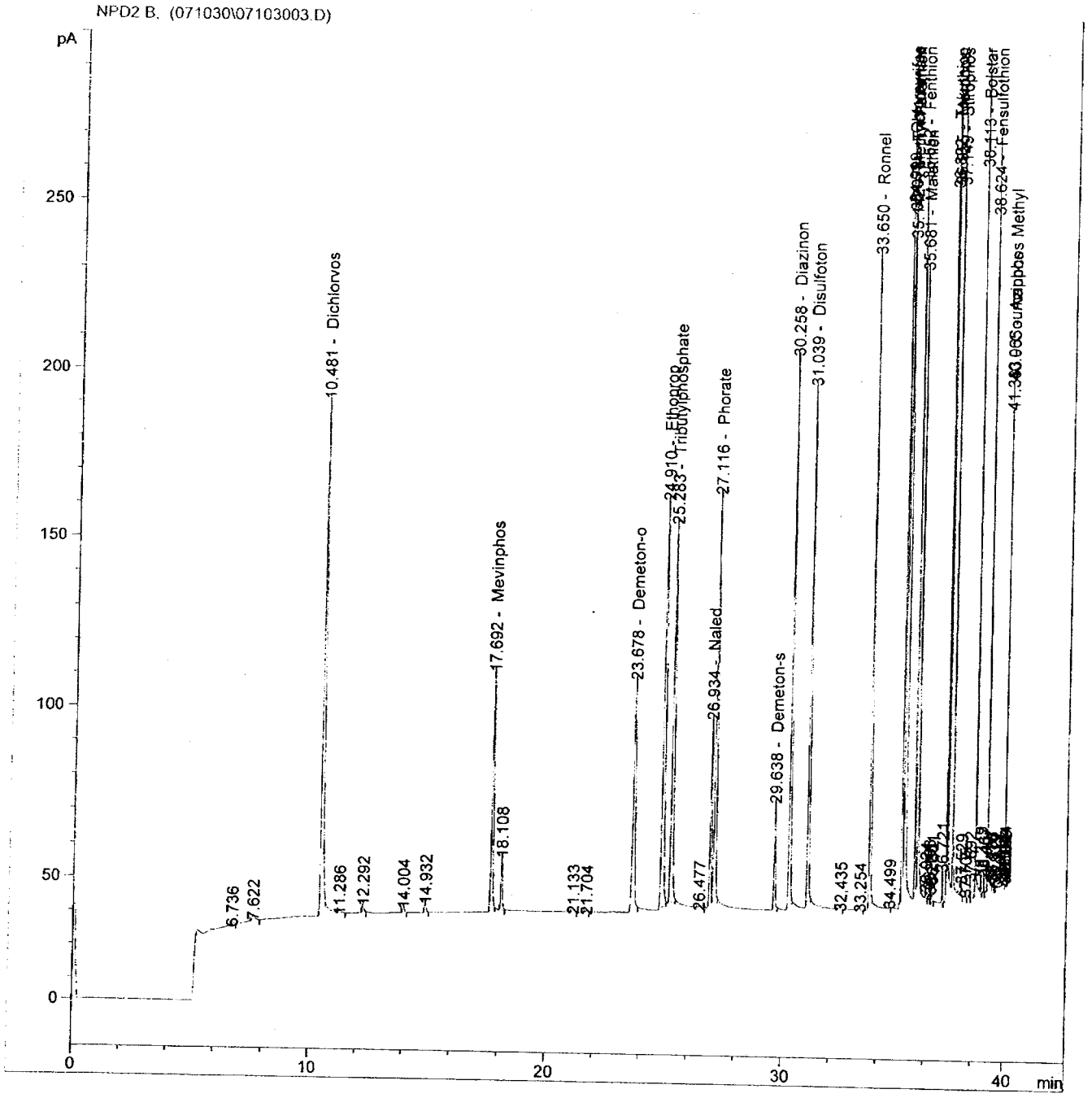
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103003.D
Operator :
Instrument : GC 26
Sample Name : 10ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 1:14:19 PM
Report Created on: 01 Nov 07 11:52 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 3
Injection Number : 1
Sequence Line : 2
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\071030\07103003.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.481	841PB		0.086		9.920	Dichlorvos
17.692	306PB		0.066		9.522	Mevinphos
23.678	435PB		0.100		9.550	Demeton-o
24.910	688PB		0.090		9.146	Ethoprop
25.283	624PB		0.087		9.130	Tributylphosphate
26.934	226PB		0.064		12.250	Naled
27.116	549VB		0.071		9.013	Phorate
29.638	122PB		0.060		8.899	Demeton-s
30.258	610PB		0.060		8.889	Diazinon
31.039	580PB		0.060		8.810	Disulfoton
33.650	607PB		0.049		10.063	Ronnel
34.999	627MV		0.035		10.144	Chlorpyrifos
35.078	656VV		0.037		10.533	Trichloronate
35.142	525VM		0.039		8.783	Methyl Parathion
35.552	456PB		0.032		8.816	Fenthion
35.681	376PB		0.032		8.565	Malathion
36.892	576PB		0.021		9.820	Tokuthion
36.955	408VB		0.025		8.228	Merphos
37.149	524BB		0.019		11.586	Stirophos
38.113	401PB		0.022		8.237	Bolstar
38.624	326PB		0.021		8.765	Fensulfothion
40.065	233PB		0.025		9.358	Azinphos Methyl
41.383	286PB		0.033		9.308	Coumaphos


NPD2 B, (071030\07103003.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
6.736
7.622
10.481 - Dichlorvos
11.286
12.292
14.004
14.932
17.692 - Mevinphos
18.108
21.133
21.704
23.678 - Demeton-o
24.910 - Ethoprop
25.283 - Tributylphosphate
26.477
26.934 - Naled
27.116 - Phorate
29.638 - Demeton-s
30.258 - Diazinon
31.039 - Disulfoton
32.435
33.254
34.499
33.650 - Ronnel
35.681 - Fenthion
38.624
Fensulfothion
Methyl

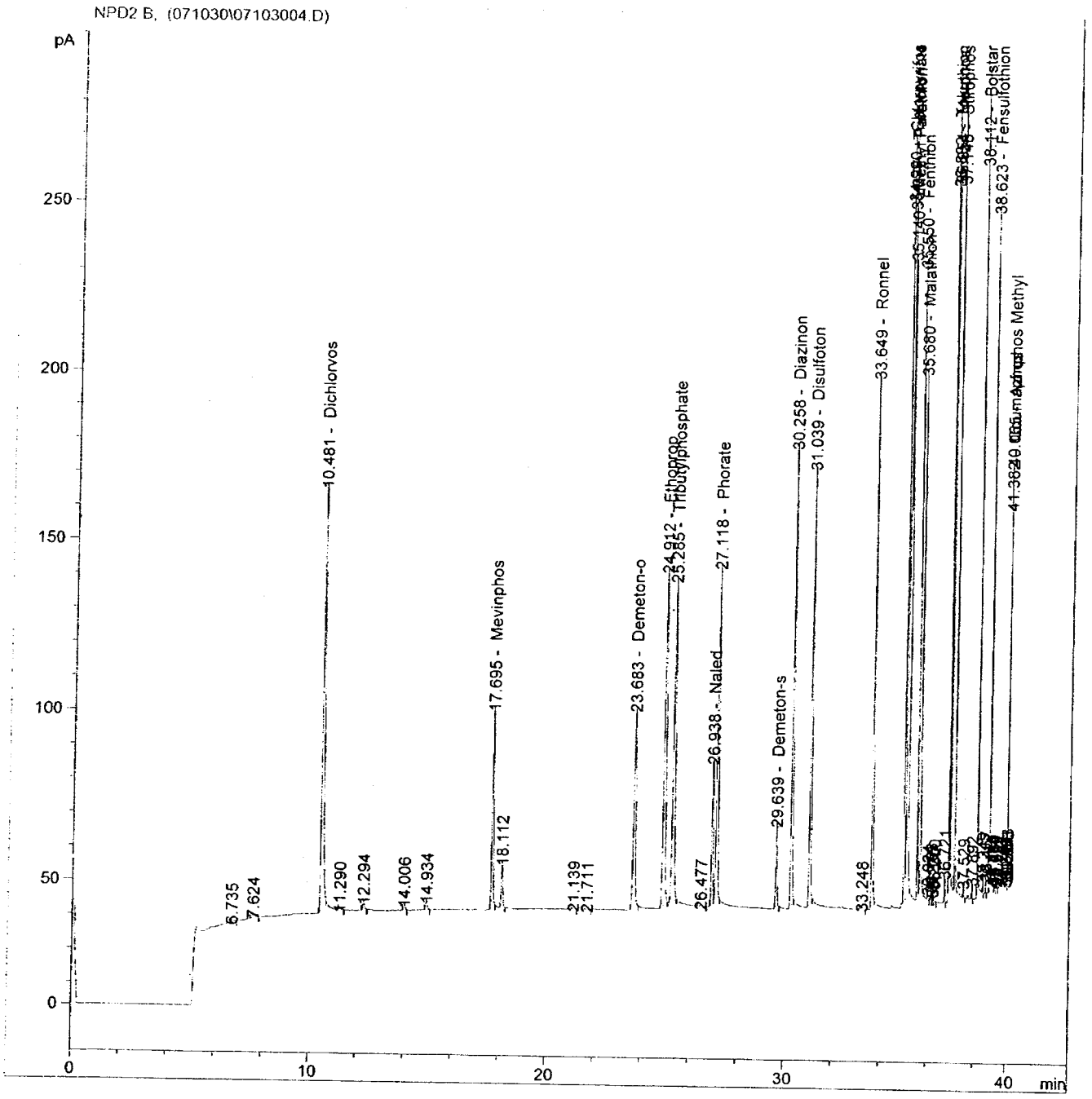
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103004.D
Operator :
Instrument : GC 26
Sample Name : 8ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 2:00:51 PM
Report Created on: 01 Nov 07 11:52 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 4
Injection Number : 1
Sequence Line : 3
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\071030\07103004.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.481	683	PB	0.086		8.056	Dichlorvos
17.695	252	PB	0.068		7.840	Mevinphos
23.683	361	PB	0.098		7.920	Demeton-o
24.912	568	PB	0.091		7.548	Ethoprop
25.285	513	BB	0.085		7.495	Tributylphosphate
26.938	174	PB	0.065		9.452	Naled
27.118	452	VB	0.074		7.424	Phorate
29.639	98	PB	0.059		7.097	Demeton-s
30.258	505	PB	0.060		7.349	Diazinon
31.039	479	PB	0.058		7.275	Disulfoton
33.649	476	PB	0.048		7.881	Ronnel
34.990	495	MV	0.036		8.006	Chlorpyrifos
35.077	511	VV	0.037		8.200	Trichloronate
35.140	439	VM	0.039		7.344	Methyl Parathion
35.550	370	PB	0.032		7.161	Fenthion
35.680	309	PB	0.032		7.034	Malathion
36.892	448	PB	0.022		7.631	Tokuthion
36.954	336	VB	0.025		6.770	Merphos
37.148	398	BB	0.020		8.786	Stirophos
38.112	329	PB	0.022		6.765	Bolstar
38.623	268	PB	0.021		7.208	Fensulfothion
40.065	189	PB	0.025		7.601	Azinphos Methyl
41.382	228	PB	0.033		7.434	Coumaphos


NPD2 B, (071030\07103004.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
6.735
7.624
10.481 - Dichlorvos
11.290
12.294
14.006
14.934
17.695 - Mevinphos
18.112
21.139
21.711
23.683 - Demeton-o
24.912 - Ethoprop
25.285 - Tributylphosphate
26.477
26.938 - Naled
27.118 - Phorate
29.639 - Demeton-s
30.258 - Diazinon
31.039 - Disulfoton
33.248
33.649 - Ronnel
35.680 - Malathion
35.950 - Fenthion
38.112 - Bolstar
38.623 - Fensulfothion
Methyl

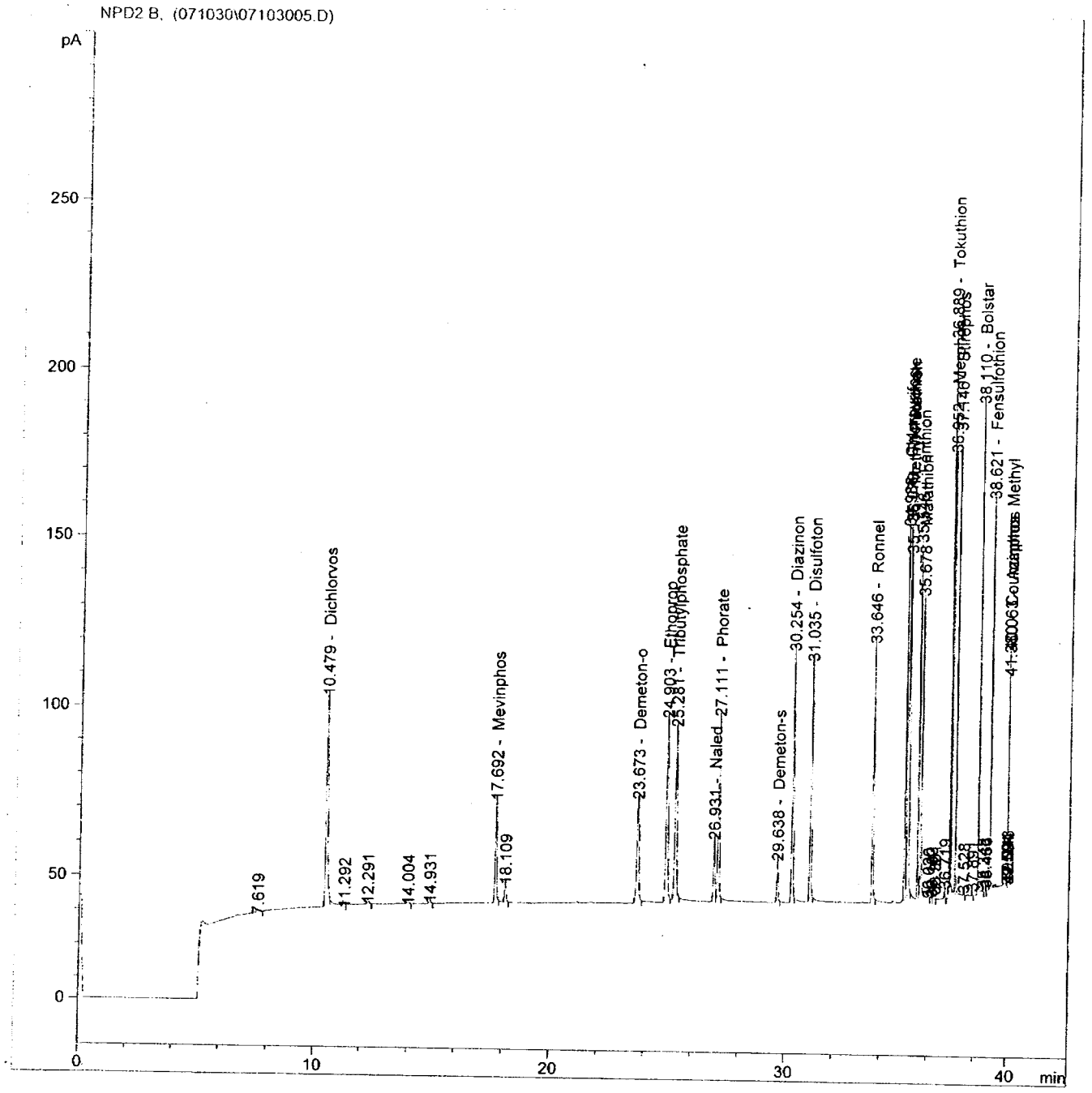
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103005.D
Operator :
Instrument : GC 26
Sample Name : 4ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 2:47:25 PM
Report Created on: 01 Nov 07 11:53 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 5
Injection Number : 1
Sequence Line : 4
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\071030\07103005.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.479	343	PB	0.083		4.046	Dichlorvos
17.692	130	PB	0.065		4.034	Mevinphos
23.673	188	PB	0.096		4.129	Demeton-o
24.903	305	PB	0.088		4.055	Ethoprop
25.281	276	PB	0.084		4.036	Tributylphosphate
26.931	78	PB	0.064		4.207	Naled
27.111	244	VB	0.068		4.016	Phorate
29.638	50	PB	0.060		3.665	Demeton-s
30.254	273	PB	0.057		3.980	Diazinon.
31.035	264	PB	0.057		4.014	Disulfoton
33.646	248	PB	0.051		4.114	Ronnel
34.988	245	MV	0.037		3.961	Chlorpyrifos
35.073	244	VV	0.036		3.917	Trichloronate
35.136	240	VM	0.039		4.023	Methyl Parathion
35.548	207	PB	0.031		4.003	Fenthion
35.678	170	PB	0.030		3.875	Malathion
36.889	229	PB	0.022		3.904	Tokuthion
36.952	194	VB	0.024		3.908	Merphos
37.146	185	BB	0.021		4.078	Stirophos
38.110	191	PB	0.021		3.922	Bolstar
38.621	150	PB	0.021		4.031	Fensulfothion
40.063	105	VB	0.024		4.195	Azinphos Methyl
41.380	121	PB	0.031		3.953	Coumaphos


NPD2 B, (071030\07103005.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
7.619
10.479 - Dichlorvos
11.292
12.291
14.004
14.931
17.692 - Mevinphos
18.109
23.673 - Demeton-o
24.903 - Ethoprop
25.281 - Tributylphosphate
26.931
27.111 - Naled
Phorate
29.638 - Demeton-s
30.254 - Diazinon
31.035 - Disulfoton
33.646 - Ronnel
35.678
Methidathion
36.719
37.528
38.110 - Bolstar
38.621 - Fensulfothion
Methyl

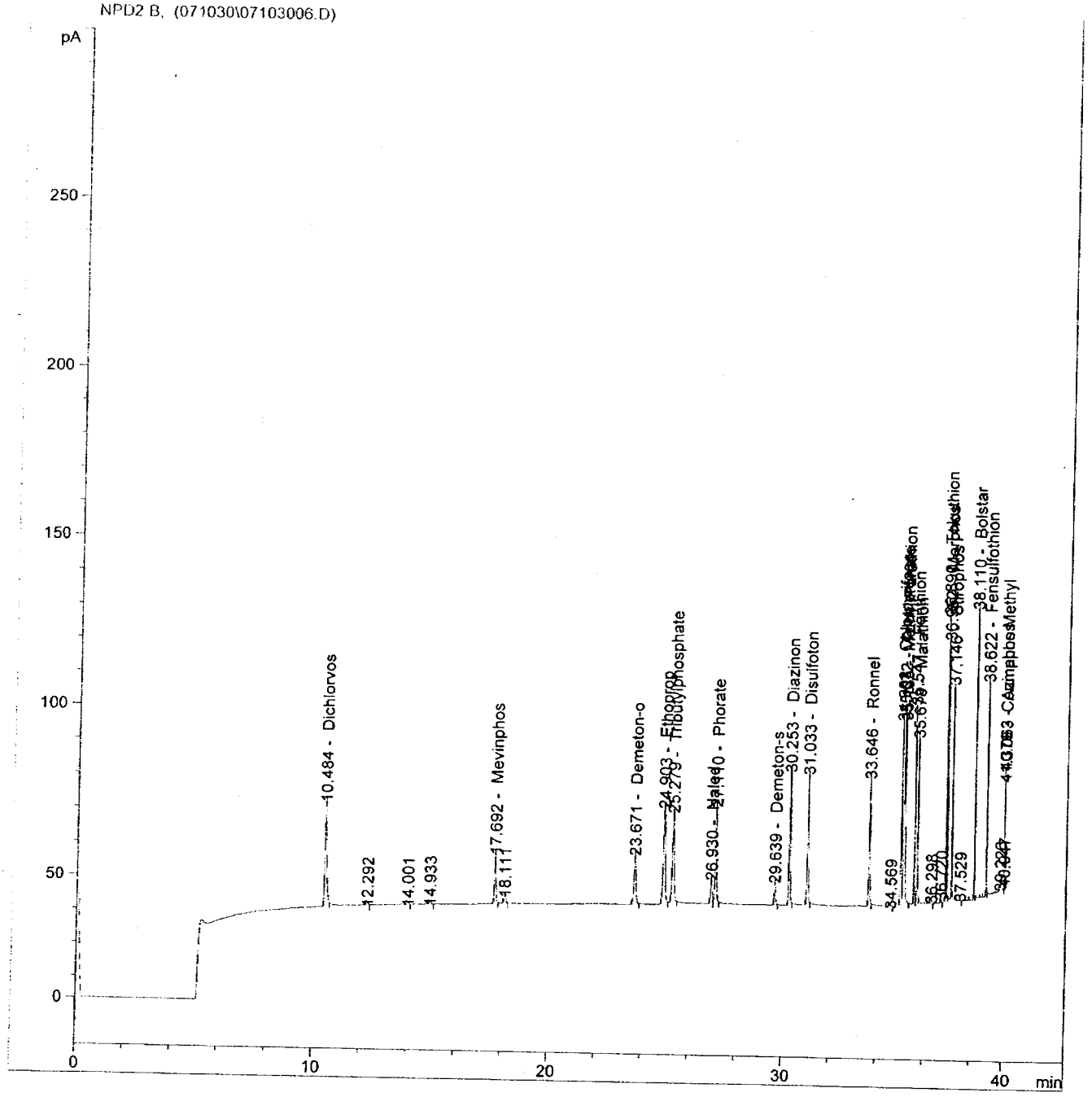
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103006.D
Operator :
Instrument : GC 26
Sample Name : 2ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 3:34:00 PM
Report Created on: 01 Nov 07 11:54 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 5
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\071030\07103006.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.484	177	PB	0.074		2.087	Dichlorvos
17.692	65	PB	0.064		2.030	Mevinphos
23.671	95	PB	0.094		2.080	Demeton-o
24.903	161	PB	0.086		2.141	Ethoprop
25.279	146	PB	0.082		2.142	Tributylphosphate
26.930	34	PB	0.064		1.823	Naled
27.110	131	VB	0.070		2.151	Phorate
29.639	29	PB	0.058		2.134	Demeton-s
30.253	148	PB	0.057		2.153	Diazinon
31.033	143	PB	0.059		2.180	Disulfoton
33.646	123	PB	0.048		2.034	Ronnel
34.993	125	MV	0.038		2.016	Chlorpyrifos
35.072	123	VV	0.036		1.977	Trichloronate
35.135	133	VM	0.040		2.227	Methyl Parathion
35.547	112	PB	0.030		2.175	Fenthion
35.678	95	BB	0.031		2.153	Malathion
36.890	121	PB	0.022		2.069	Tokuthion
36.952	111	VB	0.023		2.228	Merphos
37.146	80	PB	0.020		1.767	Stirophos
38.110	108	PB	0.020		2.229	Bolstar
38.622	79	PB	0.020		2.134	Fensulfothion
40.063	53	PB	0.024		2.137	Azinphos Methyl
41.379	70	VB	0.035		2.281	Coumaphos


NPD2 B, (071030\07103006.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
10.484 - Dichlorvos
12.292
14.001
14.933
17.692 - Mevinphos
18.111
23.671 - Demeton-o
24.903 - Ethoprop
25.279 - Fibucyphosphate
26.930 - Phorate
29.639 - Demeton-s
30.253 - Diazinon
31.033 - Disulfoton
33.646 - Ronnel
34.569
35.630 - Malathion
36.298
36.720
37.529
38.110 - Bolstar
38.622 - Fensulfothion
Methyl

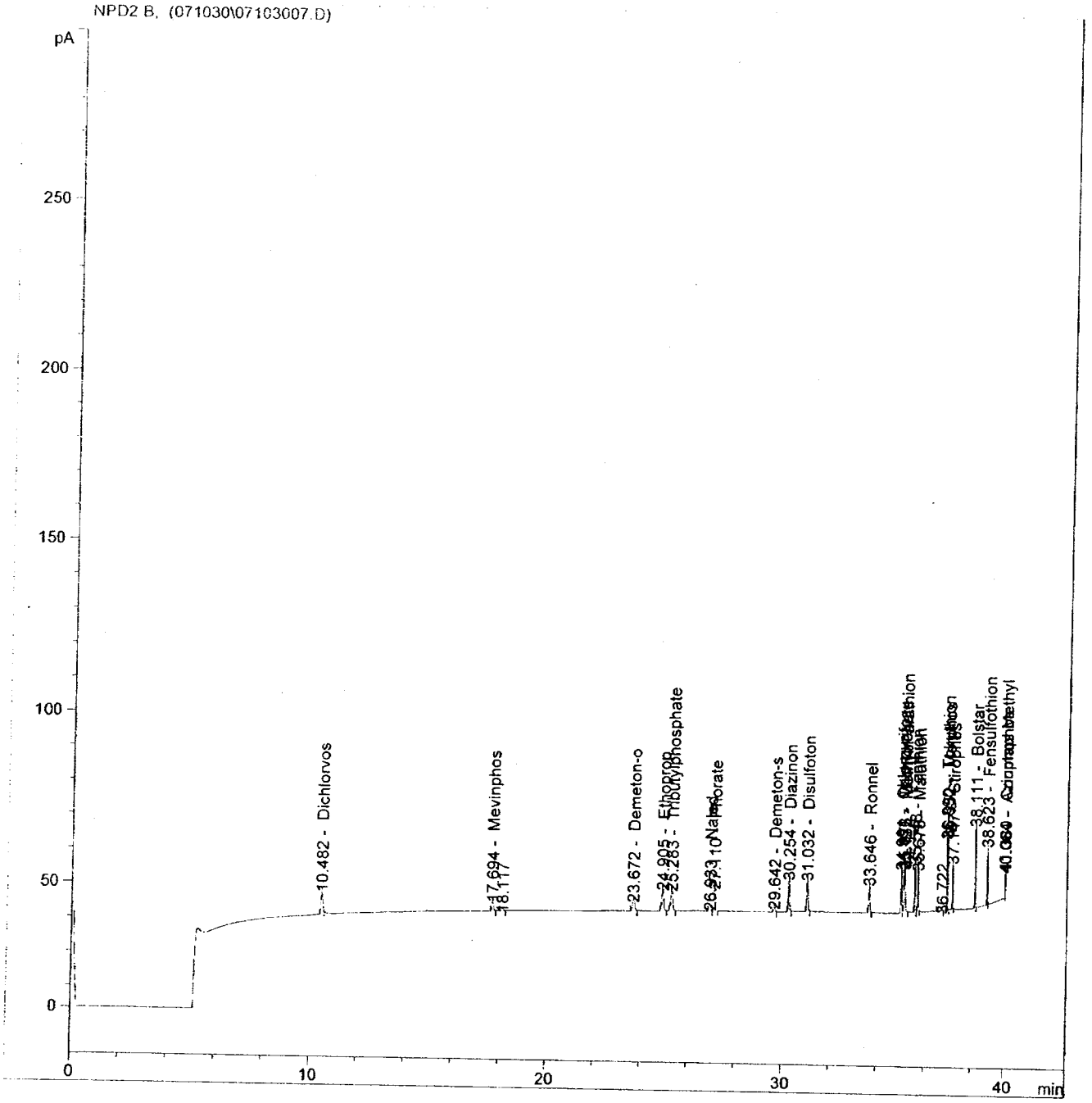
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103007.D
Operator :
Instrument : GC 26
Sample Name : 0.5ppm 8141
Run Time Bar Code:
Acquired on : 10/30/2007 4:20:31 PM
Report Created on: 01 Nov 07 11:54 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 7
Injection Number : 1
Sequence Line : 6
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\071030\07103007.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.482		40PB	0.073		0.473	Dichlorvos
17.694		17PB	0.066		0.522	Mevinphos
23.672		22PB	0.092		0.491	Demeton-o
24.905		40PB	0.085		0.529	Ethoprop
25.283		37PB	0.083		0.535	Tributylphosphate
26.933		6MF	0.066		0.315	Naled
27.110		33FM	0.072		0.546	Phorate
29.642		9PB	0.062		0.620	Demeton-s
30.254		38PB	0.059		0.561	Diazinon
31.032		37PB	0.056		0.558	Disulfoton
33.646		29PB	0.050		0.482	Ronnel
34.991		31MV	0.037		0.493	Chlorpyrifos
35.073		30VV	0.035		0.477	Trichloronate
35.135		32VM	0.039		0.542	Methyl Parathion
35.548		29PB	0.031		0.567	Fenthion
35.678		27PB	0.032		0.610	Malathion
36.890		31PB	0.022		0.527	Tokuthion
36.952		31VB	0.022		0.620	Merphos
37.147		19PB	0.021		0.420	Stirophos
38.111		30PB	0.019		0.618	Bolstar
38.623		21PB	0.018		0.574	Fensulfothion
40.064		12PB	0.023		0.498	Azinphos Methyl
41.380		16PB	0.031		0.505	Coumaphos


NPD2 B, (071030\07103007.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
10.482 - Dichlorvos
17.694 - Mevinphos
18.177
23.672 - Demeton-o
24.905 - Ethoprop
25.283 - Tributylphosphate
26.933 - Naled
29.642 - Demeton-s
30.254 - Diazinon
31.032 - Disulfoton
33.646 - Ronnel
36.722
38.111 - Bolstar
38.623 - Fensulfothion

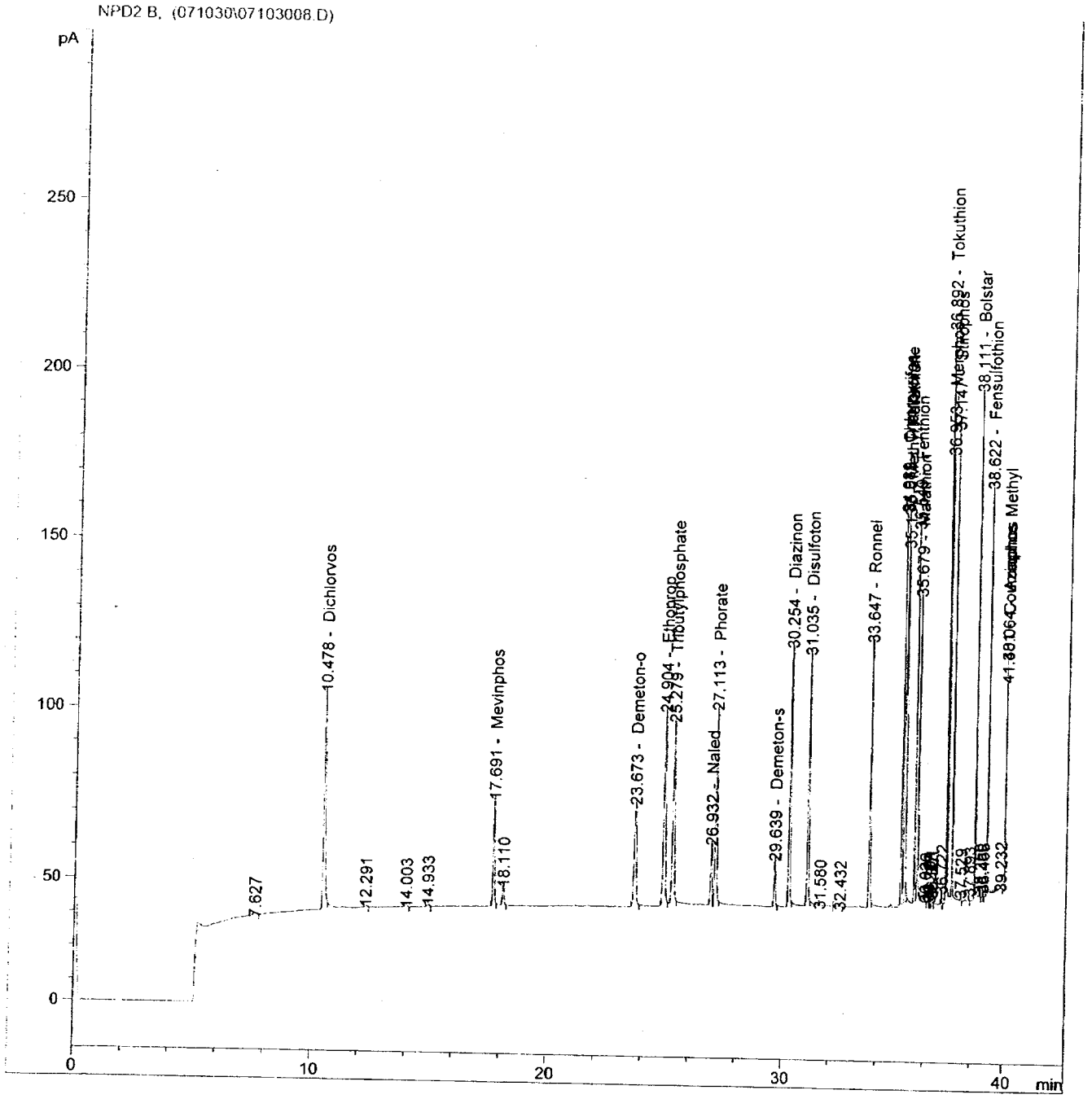
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\071030\07103008.D
Operator :
Instrument : GC 26
Sample Name : 4ppm 8141 icv
Run Time Bar Code:
Acquired on : 10/30/2007 5:07:06 PM
Report Created on: 01 Nov 07 11:56 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 8
Injection Number : 1
Sequence Line : 7
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\071030\07103008.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.478	358	PB	0.087		4.227	Dichlorvos
17.691	133	PB	0.064		4.132	Mevinphos
23.673	195	PB	0.099		4.275	Demeton-o
24.904	313	PB	0.086		4.162	Ethoprop
25.279	287	PB	0.084		4.193	Tributylphosphate
26.932	74	PB	0.065		4.037	Naled
27.113	255	VB	0.070		4.197	Phorate
29.639	55	PB	0.058		4.007	Demeton-s
30.254	284	PB	0.059		4.138	Diazinon
31.035	274	PB	0.059		4.160	Disulfoton
33.647	250	PB	0.049		4.134	Ronnel
34.989	253	MV	0.036		4.089	Chlorpyrifos
35.075	254	VV	0.036		4.074	Trichloronate
35.137	249	VM	0.039		4.175	Methyl Parathion
35.549	212	PB	0.030		4.101	Fenthion
35.679	178	PB	0.031		4.062	Malathion
36.892	236	PB	0.022		4.014	Tokuthion
36.953	197	VB	0.024		3.974	Merphos
37.147	189	BB	0.021		4.169	Stirophos
38.111	195	PB	0.021		4.006	Bolstar
38.622	153	PB	0.020		4.103	Fensulfothion
40.064	105	PB	0.025		4.197	Azinphos Methyl
41.381	124	PB	0.033		4.054	Coumaphos


NPD2 B, (071030\07103008.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
7.627
10.478 - Dichlorvos
12.291
14.003
14.933
17.691 - Mevinphos
18.110
23.673 - Demeton-o
24.904 - Ethoprop
28.279 - Tributylphosphate
26.932 - Naled
27.113 - Phorate
29.639 - Demeton-s
30.254 - Diazinon
31.035 - Disulfoton
31.580
32.432
33.647 - Ronnel
35.679 - Malathion
36.953 - Chlorpyrifos Methyl
38.111 - Bolstar
38.622 - Fensulfothion
39.232
41.806 - Coumaphos
Tokuthion

Sequence: C:\HPCHEM\1\SEQUENCE\080116.S

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	4ppm	8141	1	Sample		08011601
2	Vial 2	lcs080116l02	8141	1	Sample		08011602
3	Vial 3	lcsd080116l02	8141	1	Sample		08011603
4	Vial 4	mb080116l02	8141	1	Sample		08011604
5	Vial 5	ms01-1016-17	8141	1	Sample		08011605
6	Vial 6	msd01-1016-17	8141	1	Sample		08011606
7	Vial 7	01-1016-16	8141	1	Sample		08011607
8	Vial 8	01-1016-17	8141	1	Sample		08011608
9	Vial 9	01-1016-18	8141	1	Sample		08011609
10	Vial 11	01-0940-1	8141	1	Sample		08011610
11	Vial 12	01-0945-1	8141	1	Sample		08011611
12	Vial 13	01-1021-1	8141	1	Sample		08011612
13	Vial 1	4ppm	8141	1	Sample		08011613

Sequence Table (Back Injector):

No entries - empty table!

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	4ppm	8141	1	Sample		08011701
2	Vial 2	mb080116102	8141	1	Sample		08011702
3	Vial 3	01-1021-2	8141	1	Sample		08011703
4	Vial 4	01-1021-3	8141	1	Sample		08011704
5	Vial 1	4ppm	8141	1	Sample		08011705

Sequence Table (Back Injector):

No entries - empty table!

External Standard Report

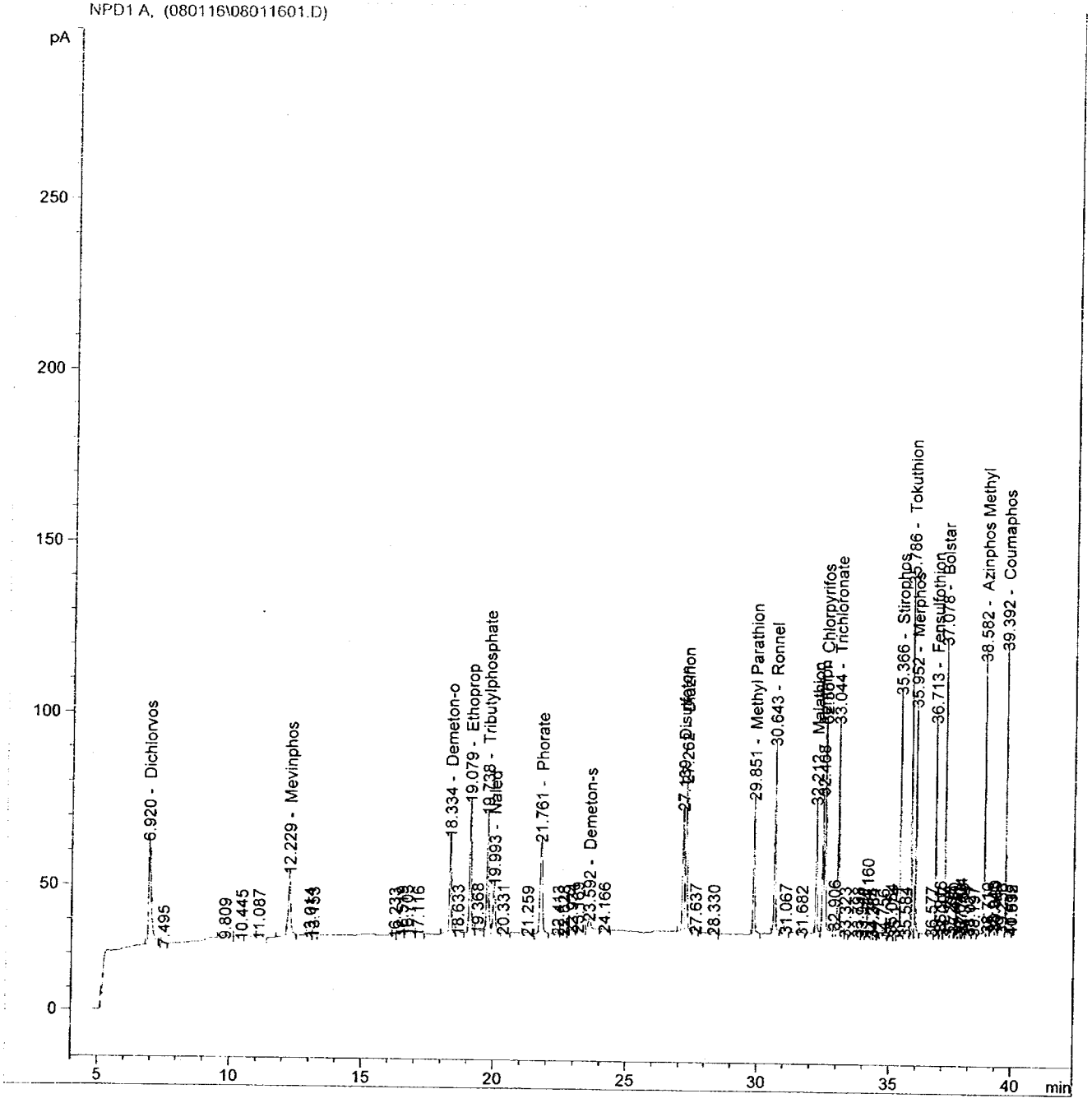
Data File Name : C:\HPCHEM\1\DATA\080116\08011601.D
Operator :
Instrument : GC 26
Sample Name : 4ppm
Run Time Bar Code:
Acquired on : 1/16/2008 12:54:32 PM
Report Created on: 16 Jan 08 01:39 pm
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 1
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 16Jan08

Sig. NPD1 A C:\HPCHEM\1\DATA\080116\08011601.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.920	236MM		0.125		3.557	Dichlorvos
12.229	118PB		0.090		4.470	Mevinphos
18.334	138PB		0.075		4.352	Demeton-o
19.079	195BV		0.078		4.003	Ethoprop
19.738	187VV		0.082		4.263	Tributylphosphate
19.993	87VB		0.088		4.100	Naled
21.761	168VB		0.095		4.403	Phorate
23.592	33BB		0.119		3.962	Demeton-s
27.139	163PV		0.073		3.963	Disulfoton
27.262	193VB		0.067		3.976	Diazinon
29.851	152VB		0.060		4.120	Methyl Parathion
30.643	187PB		0.054		3.862	Ronnel
32.212	132BV		0.054		4.351	Malathion
32.468	138VV		0.051		3.962	Fenthion
32.551	208VB		0.051		3.881	Chlorpyrifos
33.044	195VV		0.048		3.760	Trichloronate
35.366	136VV		0.030		3.619	Stirophos
35.786	183VV		0.029		3.579	Tokuthion
35.952	127VB		0.030		3.490	Merphos
36.713	109VV		0.028		4.139	Fensulfothion
37.078	133VV		0.024		3.859	Bolstar
38.582	106PV		0.021		4.229	Azinphos Methyl
39.392	113BB		0.022		3.884	Coumaphos

Avg 5.7


NPD1 A, (080116\08011601.D)
pA
250
200
150
100
50
0
6.920 - Dichlorvos
12.229 - Mevinphos
18.334 - Demeton-o
19.079 - Ethoprop
21.761 - Phorate
23.592 - Demeton-s
29.851 - Methyl Parathion
30.643 - Ronnel
33.044 - Trichlorfonate
35.366 - Stirophos
35.952 - Merphos
36.713 - Fensulfothion
38.582 - Azinphos Methyl
39.392 - Coumaphos
5
10
15
20
25
30
35
40
min

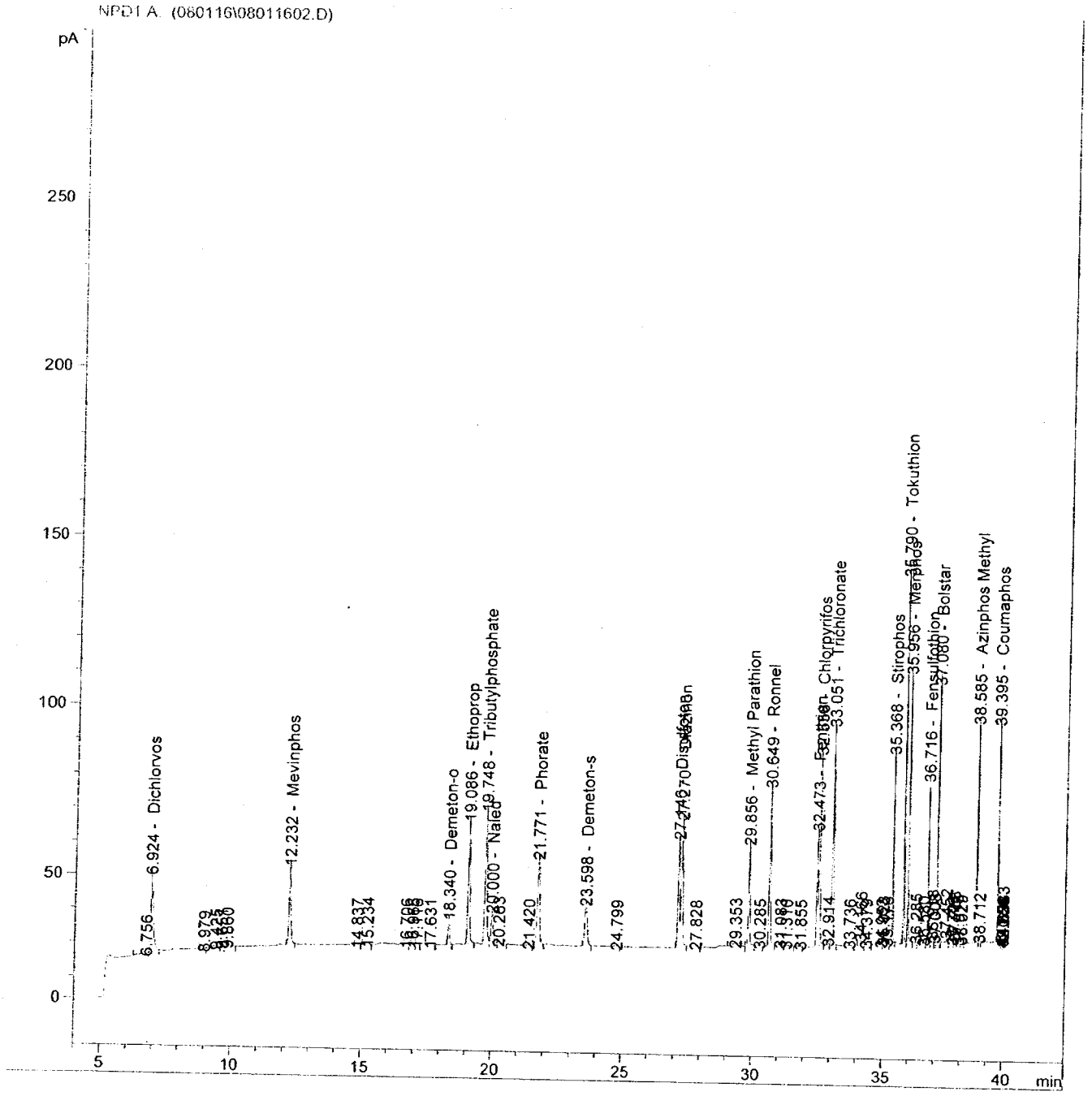
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011602.D
Operator :
Instrument : GC 26
Sample Name : lcs080116102
Run Time Bar Code:
Acquired on : 1/16/2008 2:27:48 PM
Report Created on: 17 Jan 08 09:09 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 2
Injection Number : 1
Sequence Line : 3
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 17Jan08

Sig. NPD1 A C:\HPCHEM\1\DATA\080116\08011602.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.924	150MM		0.103		2.263	Dichlorvos
12.232	122PB		0.076		4.618	Mevinphos
18.340	37BB		0.066		1.163	Demeton-o
19.086	183PB		0.077		3.774	Ethoprop
19.748	210PV		0.080		4.799	Tributylphosphate
20.000	59VB		0.085		2.761	Naled
21.771	162VB		0.093		4.227	Phorate
23.598	80BB		0.100		9.556	Demeton-s
27.146	147PV		0.068		3.562	Disulfoton
27.270	171VB		0.069		3.525	Diazinon
29.856	115VB		0.057		3.131	Methyl Parathion
30.649	163BB		0.054		3.355	Ronnel
0.000	0		0.000		0.000	Malathion
32.473	115BV		0.050		3.292	Fenthion
32.558	181VB		0.049		3.380	Chlorpyrifos
33.051	199VB		0.047		3.844	Trichloronate
35.368	108VB		0.030		2.890	Stirophos
35.790	189PV		0.028		3.701	Tokuthion
35.956	155VB		0.030		4.246	Merphos
36.716	82BB		0.027		3.104	Fensulfothion
37.080	120VB		0.026		3.458	Bolstar
38.585	85BB		0.021		3.392	Azinphos Methyl
39.395	85BB		0.021		2.931	Coumaphos


NPDT A, (060116\08011602.D)
pA
250
200
150
100
50
0
6.756
6.924 - Dichlorvos
12.232 - Mevinphos
14.837
15.234
18.340 - Demeton-o
19.086 - Ethoprop
19.748 - Tributylphosphate
20.000 - Naled
20.283
21.420
21.771 - Phorate
23.598 - Demeton-s
24.799
27.828
29.353
29.856 - Methyl Parathion
30.285
30.649 - Ronnel
31.855
32.473
32.814
33.051 - Trichloronate
33.736
35.368 - Stirophos
35.956 - Merphos
36.716 - Fensulfothion
37.080 - Bolstar
38.585 - Azinphos Methyl
38.712
39.395 - Coumaphos
5
10
15
20
25
30
35
40
min

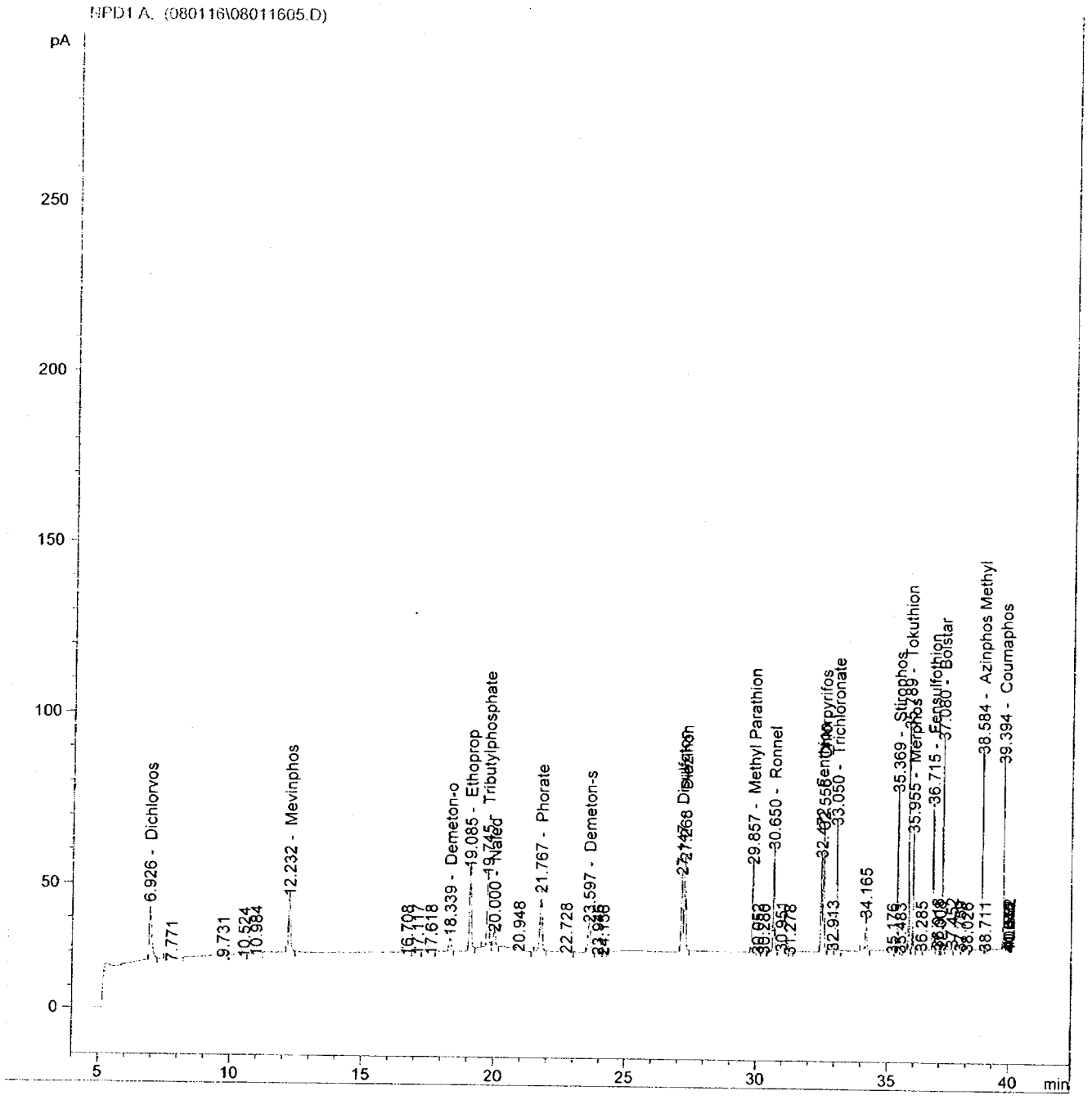
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011605.D
Operator :
Instrument : GC 26
Sample Name : ms01-1016-17
Run Time Bar Code:
Acquired on : 1/16/2008 4:47:33 PM
Report Created on: 17 Jan 08 09:16 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 5
Injection Number : 1
Sequence Line : 6
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 17Jan08

Sig. NPD1 A C:\HPCHEM\1\DATA\080116\08011605.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.926	109MM		0.100		1.636	Dichlorvos
12.232	89BB		0.077		3.373	Mevinphos
18.339	25BB		0.068		0.777	Demeton-o
19.085	120PB		0.074		2.470	Ethoprop
19.745	116BV		0.081		2.651	Tributylphosphate
20.000	29VB		0.080		1.382	Naled
21.767	113BB		0.096		2.952	Phorate
23.597	60BB		0.097		7.161	Demeton-s
27.147	104PV		0.069		2.523	Disulfoton
27.268	119VB		0.066		2.456	Diazinon
29.857	99PB		0.057		2.686	Methyl Parathion
30.650	112VB		0.056		2.304	Ronnel
0.000	0		0.000		0.000	Malathion
32.472	92PV		0.052		2.650	Fenthion
32.556	115VB		0.049		2.151	Chlorpyrifos
33.050	118VB		0.048		2.282	Trichloronate
35.369	89BV		0.030		2.372	Stirophos
35.789	116BB		0.028		2.273	Tokuthion
35.955	65BB		0.029		1.780	Merphos
36.715	73BB		0.027		2.759	Fensulfothion
37.080	94VB		0.023		2.711	Bolstar
38.584	77VV		0.021		3.071	Azinphos Methyl
39.394	75PB		0.024		2.568	Coumaphos


NPD1 A, (080116\08011605.D)
pA
250
200
150
100
50
0
6.926 - Dichlorvos
7.771
9.731
10.524
10.984
12.232 - Mevinphos
16.708
17.117
17.618
18.339 - Demeton-o
19.085 - Ethoprop
20.000
20.948
21.767 - Phorate
22.728
23.597 - Demeton-s
29.857 - Methyl Parathion
30.650 - Ronnel
33.050 - Trichloronate
34.165
35.369 - Stirophos
35.955 - Merphos
36.285
36.715 - Fensulfothion
37.080 - Bolstar
38.584 - Azinphos Methyl
38.711
39.394 - Coumaphos
5
10
15
20
25
30
35
40
min

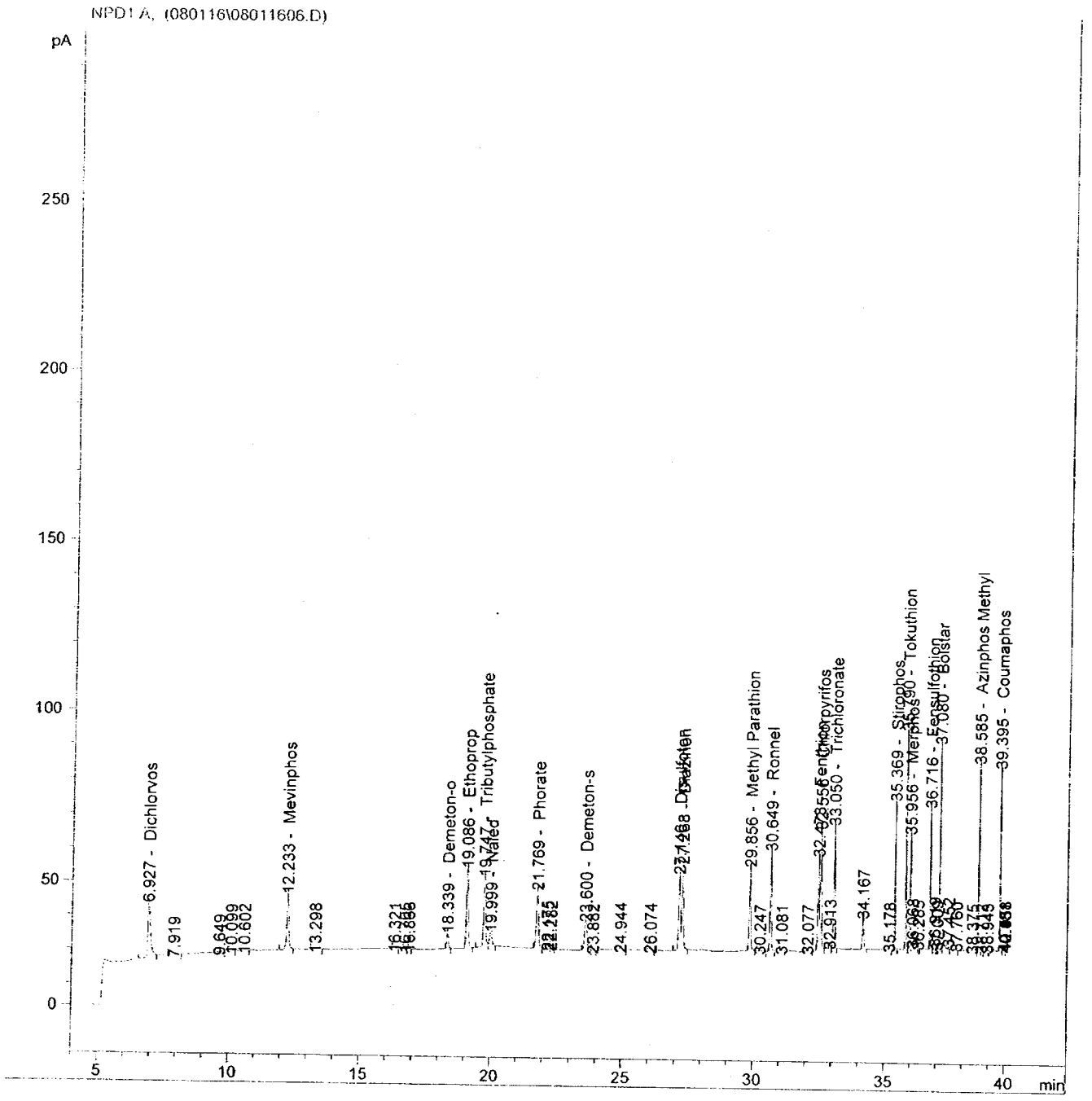
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011606.D
Operator :
Instrument : GC 26
Sample Name : msd01-1016-17
Run Time Bar Code:
Acquired on : 1/16/2008 5:34:05 PM
Report Created on: 17 Jan 08 09:17 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 7
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 17Jan08

Sig. NPD1 A C:\HPCHEM\1\DATA\080116\08011606.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.927	112BB		0.084		1.689	Dichlorvos
12.233	88BB		0.074		3.314	Mevinphos
18.339	25BB		0.066		0.796	Demeton-o
19.086	120PB		0.074		2.464	Ethoprop
19.747	117BV		0.082		2.675	Tributylphosphate
19.999	31VB		0.085		1.458	Naled
21.769	108BB		0.093		2.822	Phorate
23.600	60BB		0.097		7.189	Demeton-s
27.146	104PV		0.069		2.516	Disulfoton
27.268	118VB		0.070		2.437	Diazinon
29.856	97BB		0.059		2.646	Methyl Parathion
30.649	105BB		0.055		2.156	Ronnel
0.000	0		0.000		0.000	Malathion
32.473	93BV		0.052		2.660	Fenthion
32.556	116VB		0.047		2.169	Chlorpyrifos
33.050	115VB		0.048		2.230	Trichloronate
35.369	86BB		0.030		2.295	Stirophos
35.790	115BB		0.029		2.255	Tokuthion
35.956	64BV		0.029		1.759	Merphos
36.716	70BB		0.025		2.672	Fensulfothion
37.080	93VB		0.026		2.694	Bolstar
38.585	74VV		0.021		2.949	Azinphos Methyl
39.395	73BB		0.022		2.513	Coumaphos


NPD1 A, (080116\08011606.D)
pA
250
200
150
100
50
0
6.927 - Dichlorvos
7.919
9.649
10.099
10.602
12.233 - Mevinphos
13.298
16.321
16.886
18.339 - Demeton-o
19.086 - Ethoprop
19.747 - Tributylphosphate
19.999 - Valed
21.769 - Phorate
23.600 - Demeton-s
23.882
24.944
26.074
29.856 - Methyl Parathion
30.247
30.649 - Ronnel
31.081
32.077
32.913
33.050 - Trichloronate
34.167
35.178
35.369 - Stirophos
35.956 - Merphos
36.716 - Tokuthion
37.080 - Bolstar
37.760
38.375
38.585 - Azinphos Methyl
38.945
39.395 - Coumaphos
5
10
15
20
25
30
35
40
min

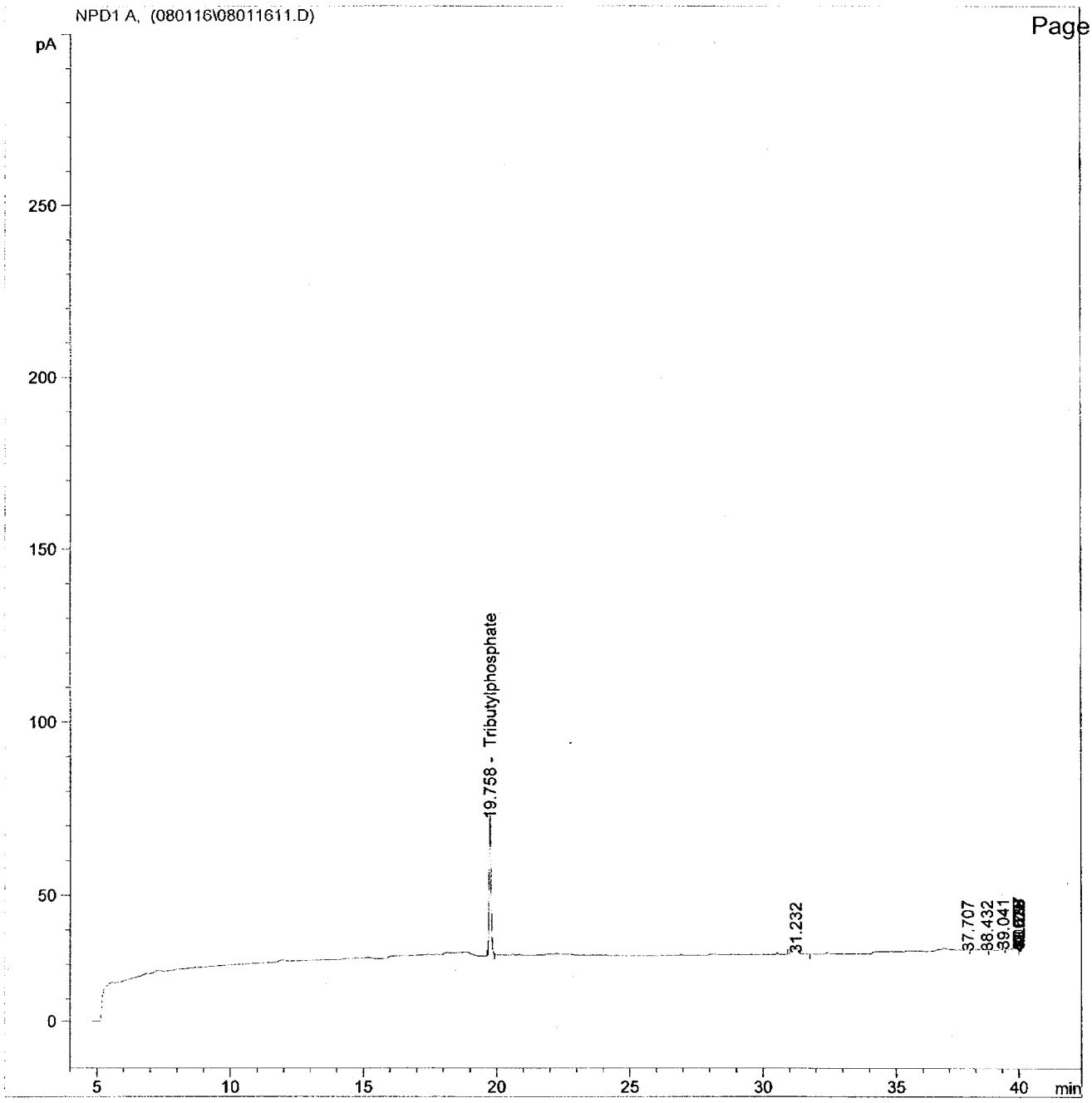
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011611.D
Operator :
Instrument : GC 26
Sample Name : 01-0945-1
Run Time Bar Code:
Acquired on : 1/16/2008 9:26:46 PM
Report Created on: 17 Jan 08 09:39 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 12
Injection Number : 1
Sequence Line : 12
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 17Jan08

Sig. NPD1 A C:\HPCHEM\1\DATA\080116\08011611.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
0.000	0		0.000		0.000	Dichlorvos
0.000	0		0.000		0.000	Mevinphos
0.000	0		0.000		0.000	Demeton-o
0.000	0		0.000		0.000	Ethoprop
19.758	210BB		0.082		4.795	Tributylphosphate
0.000	0		0.000		0.000	Naled
0.000	0		0.000		0.000	Phorate
0.000	0		0.000		0.000	Demeton-s
0.000	0		0.000		0.000	Disulfoton
0.000	0		0.000		0.000	Diazinon
0.000	0		0.000		0.000	Methyl Parathion
0.000	0		0.000		0.000	Ronnel
0.000	0		0.000		0.000	Malathion
0.000	0		0.000		0.000	Fenthion
0.000	0		0.000		0.000	Chlorpyrifos
0.000	0		0.000		0.000	Trichloronate
0.000	0		0.000		0.000	Stirophos
0.000	0		0.000		0.000	Tokuthion
0.000	0		0.000		0.000	Merphos
0.000	0		0.000		0.000	Fensulfothion
0.000	0		0.000		0.000	Bolstar
0.000	0		0.000		0.000	Azinphos Methyl
0.000	0		0.000		0.000	Coumaphos


NPD1 A, (080116\08011611.D)
pA
250
200
150
100
50
0
19.758 - Tributylphosphate
31.232
37.707
38.432
39.041
5
10
15
20
25
30
35
40
min

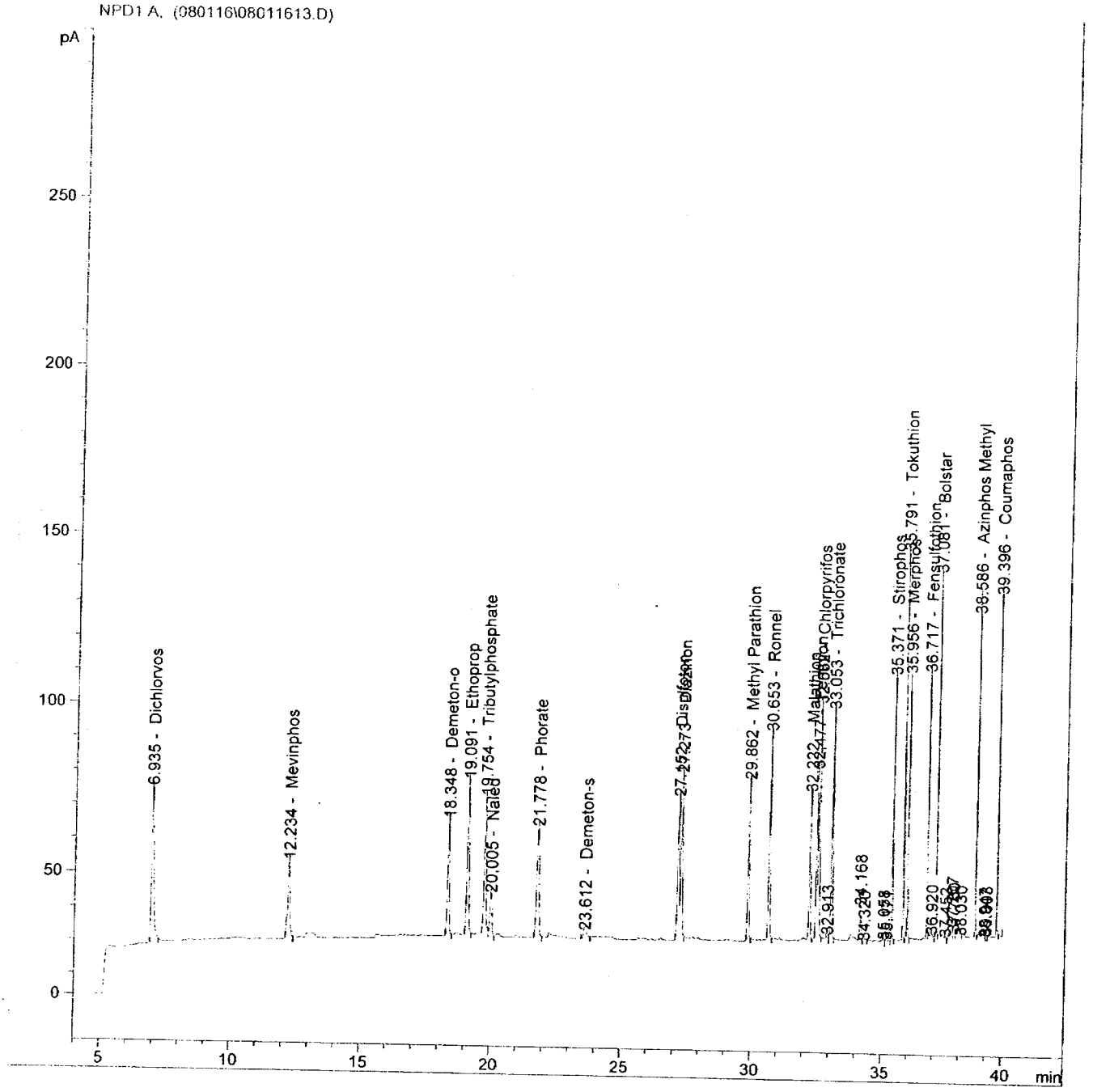
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011613.D
Operator :
Instrument : GC 26
Sample Name : 4ppm
Run Time Bar Code:
Acquired on : 1/16/2008 10:59:57 PM
Report Created on: 17 Jan 08 09:36 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 14
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 17Jan08

Sig. NPD1 A C:\HPCHEM\1\DATA\080116\08011613.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
6.935	282PB		0.079		4.243	Dichlorvos
12.234	133BB		0.082		5.025	Mevinphos
18.348	157BB		0.071		4.957	Demeton-o
19.091	224PB		0.076		4.610	Ethoprop
19.754	220BV		0.081		5.031	Tributylphosphate
20.005	71VP		0.079		3.342	Naled
21.778	196PB		0.093		5.123	Phorate
23.612	26PB		0.102		3.039	Demeton-s
27.152	191BV		0.070		4.638	Disulfoton
27.273	218VB		0.067		4.501	Diazinon
29.862	176BB		0.056		4.774	Methyl Parathion
30.653	208BB		0.051		4.288	Ronnel
32.222	146BP		0.052		4.832	Malathion
32.477	166BV		0.052		4.767	Fenthion
32.562	218VB		0.048		4.071	Chlorpyrifos
33.053	211VB		0.048		4.085	Trichloronate
35.371	149BB		0.030		3.974	Stirophos
35.791	207BB		0.029		4.060	Tokuthion
35.956	147BB		0.029		4.034	Merphos
36.717	132BB		0.025		5.004	Fensulfothion
37.081	161VB		0.023		4.652	Bolstar
38.586	128PB		0.021		5.112	Azinphos Methyl
39.396	136BB		0.022		4.686	Coumaphos


NPD1 A, (080116\08011613.D)
pA
250
200
150
100
50
0
6.935 - Dichlorvos
12.234 - Mevinphos
18.348 - Demeton-o
19.091 - Ethoprop
20.005 - Naled
20.754 - Tributylphosphate
21.778 - Phorate
23.612 - Demeton-s
29.862 - Methyl Parathion
30.653 - Ronnel
32.943 - Chlorpyrifos
33.053 - Trichloronate
35.371 - Stirophos
35.956 - Merphos
35.791 - Tokuthion
36.717 - Fensulfathion
37.081 - Bolstar
36.920
38.586 - Azinphos Methyl
39.396 - Coumaphos
5
10
15
20
25
30
35
40
min

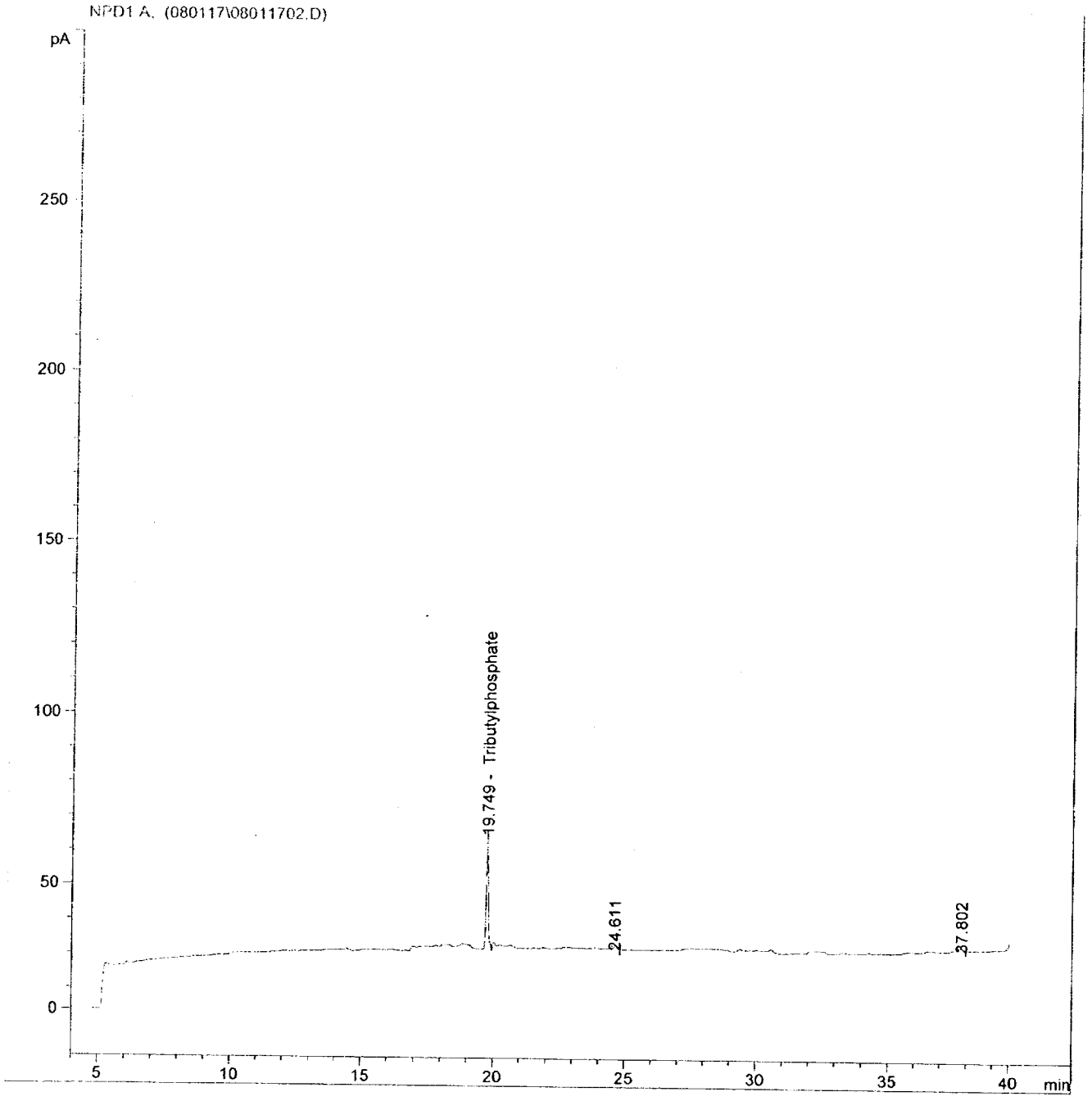
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080117\08011702.D
Operator :
Instrument : GC 26
Sample Name : mb080116102
Run Time Bar Code:
Acquired on : 1/17/2008 11:31:03 AM
Report Created on: 17 Jan 08 00:48 pm
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030F.M

Page Number :
Vial Number : Vial 2
Injection Number : 1
Sequence Line : 2
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 29Nov07

Sig. NPD1 A C:\HPCHEM\1\DATA\080117\08011702.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
0.000	0		0.000		0.000	Dichlorvos
0.000	0		0.000		0.000	Mevinphos
0.000	0		0.000		0.000	Demeton-o
0.000	0		0.000		0.000	Ethoprop
19.749	179	PB	0.082		4.085	Tributylphosphate
0.000	0		0.000		0.000	Naled
0.000	0		0.000		0.000	Phorate
0.000	0		0.000		0.000	Demeton-s
0.000	0		0.000		0.000	Disulfoton
0.000	0		0.000		0.000	Diazinon
0.000	0		0.000		0.000	Methyl Parathion
0.000	0		0.000		0.000	Ronnel
0.000	0		0.000		0.000	Malathion
0.000	0		0.000		0.000	Fenthion
0.000	0		0.000		0.000	Chlorpyrifos
0.000	0		0.000		0.000	Trichloronate
0.000	0		0.000		0.000	Stirophos
0.000	0		0.000		0.000	Tokuthion
0.000	0		0.000		0.000	Merphos
0.000	0		0.000		0.000	Fensulfothion
0.000	0		0.000		0.000	Bolstar
0.000	0		0.000		0.000	Azinphos Methyl
0.000	0		0.000		0.000	Coumaphos


NPD1 A, (080117\08011702.D)
pA
250
200
150
100
50
0
19.749 - Tributylphosphate
24.611
37.802
5
10
15
20
25
30
35
40
min

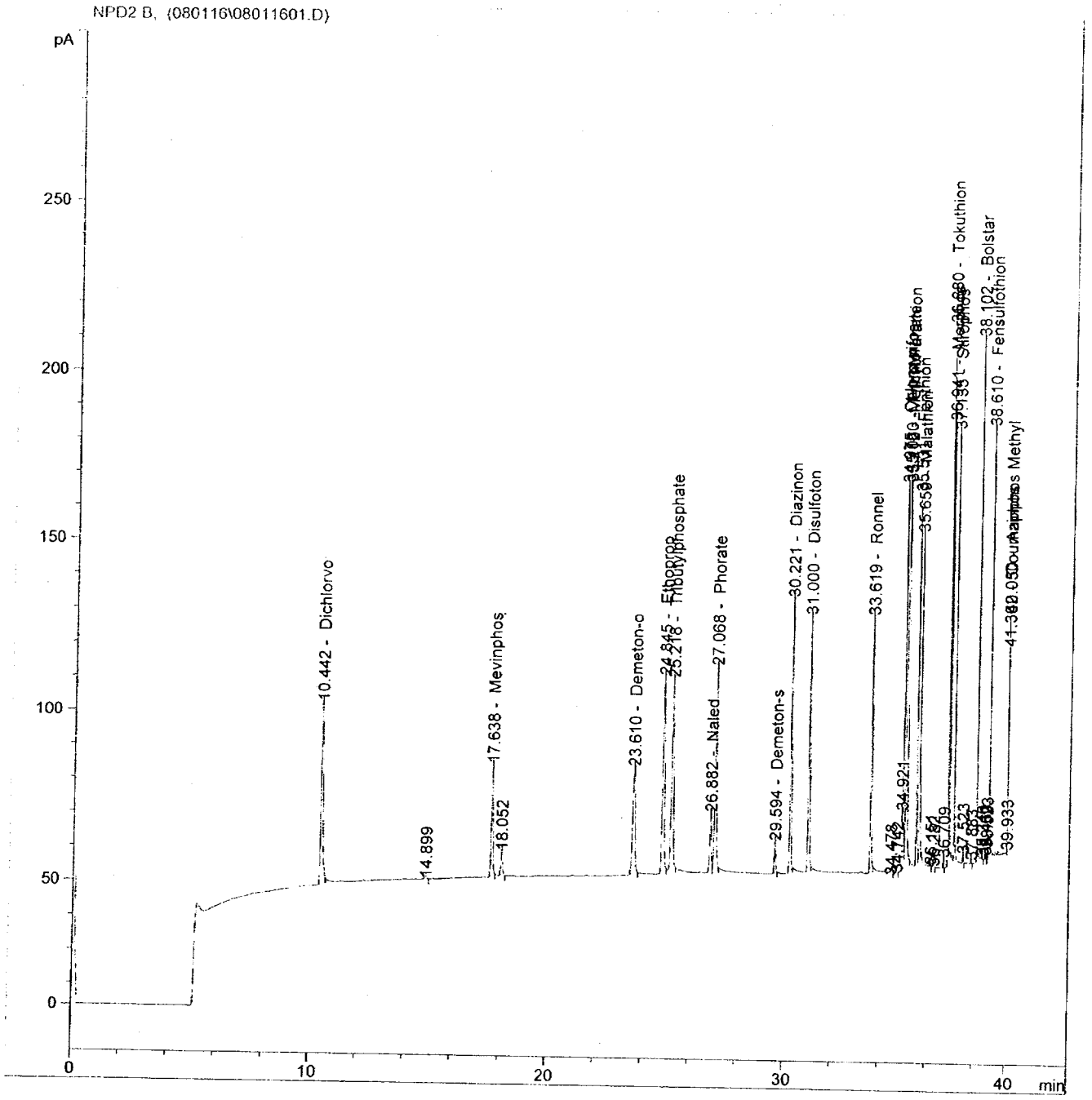
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011601.D
Operator :
Instrument : GC 26
Sample Name : 4ppm
Run Time Bar Code:
Acquired on : 1/16/2008 12:54:31 PM
Report Created on: 16 Jan 08 01:46 pm
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 1
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\080116\08011601.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.442	328PB		0.091		3.874	Dichlorvos
17.638	143PB		0.066		4.443	Mevinphos
23.610	203PB		0.098		4.449	Demeton-o
24.845	329PB		0.089		4.376	Ethoprop
25.218	311PB		0.085		4.549	Tributylphosphate
26.882	77PB		0.067		4.162	Naled
27.068	288VB		0.075		4.729	Phorate
29.594	40PB		0.060		2.935	Demeton-s
30.221	301PB		0.057		4.378	Diazinon
31.000	281PB		0.057		4.273	Disulfoton
33.619	248PB		0.051		4.114	Ronnel
34.975	250FM		0.037		4.036	Chlorpyrifos
35.060	249MF		0.036		3.994	Trichloronate
35.112	245FM		0.037		4.094	Methyl Parathion
35.531	223PB		0.033		4.309	Fenthion
35.659	194BB		0.031		4.410	Malathion
36.880	228PB		0.023		3.893	Tokuthion
36.941	194VB		0.025		3.918	Merphos
37.135	181PB		0.022		3.989	Stirophos
38.102	204PB		0.021		4.184	Bolstar
38.610	168PB		0.021		4.515	Fensulfothion
40.050	109PB		0.024		4.354	Azinphos Methyl
41.362	127PB		0.034		4.124	Coumaphos


NPD2 B, (080116\08011601.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
10.442 - Dichlorvo
14.899
17.638 - Mevinphos
18.052
23.610 - Demeton-o
24.845 - Ethoprop
25.218 - Fenamiphos
26.882 - Naled
27.068 - Phorate
29.594 - Demeton-s
30.221 - Diazinon
31.000 - Disulfoton
33.619 - Ronnel
34.478
34.923
35.658 - Malathion
36.709
37.523
38.102 - Bolstar
38.610 - Fensulfothion
39.933
41.380
Methyl

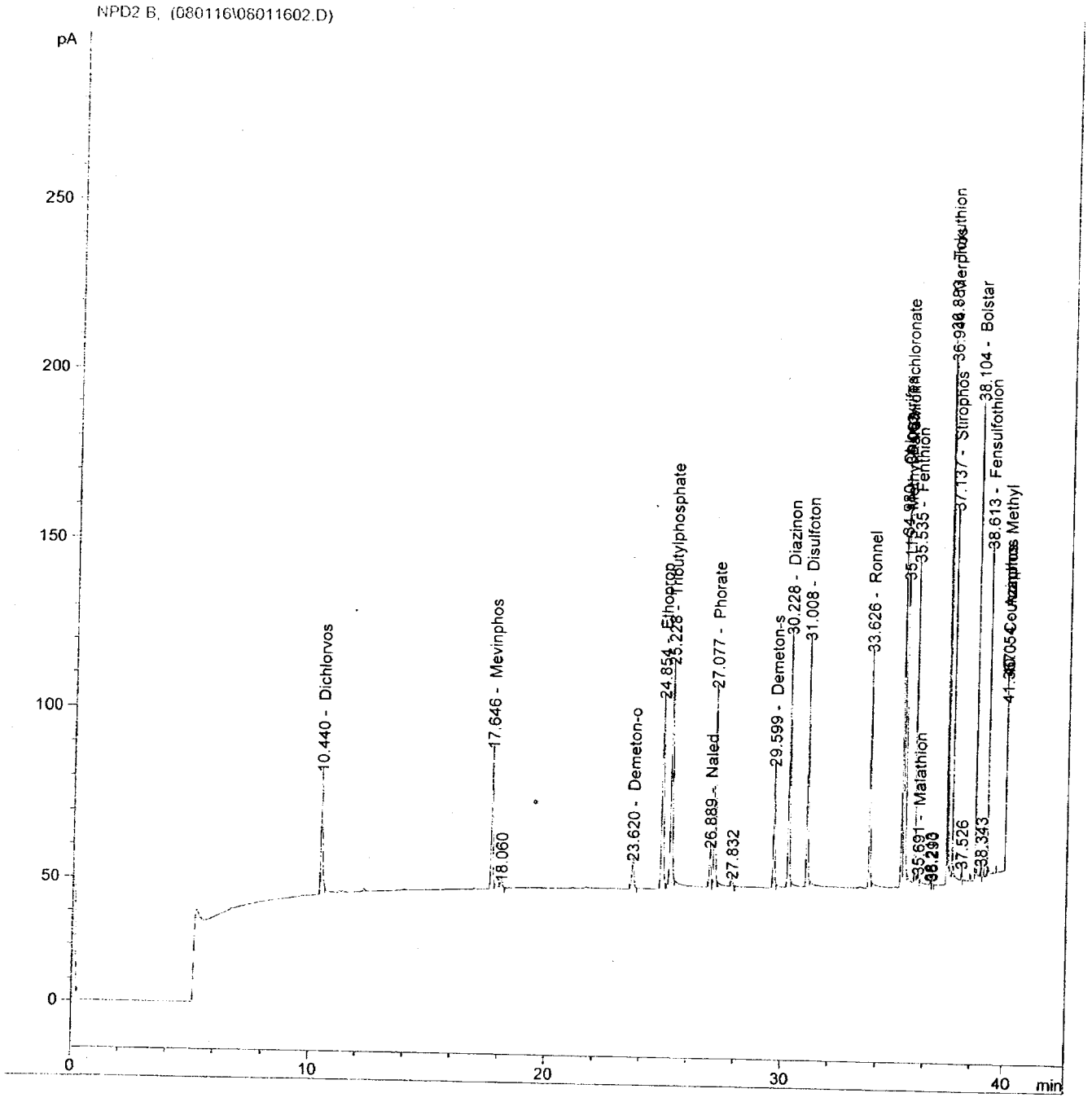
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011602.D
Operator :
Instrument : GC 26
Sample Name : lcs080116102
Run Time Bar Code:
Acquired on : 1/16/2008 2:27:48 PM
Report Created on: 17 Jan 08 09:59 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 2
Injection Number : 1
Sequence Line : 3
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\080116\08011602.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.440	204	PB	0.071		2.402	Dichlorvos
17.646	175	PB	0.065		5.455	Mevinphos
23.620	58	PB	0.097		1.280	Demeton-o
24.854	312	PB	0.089		4.141	Ethoprop
25.228	354	PB	0.085		5.181	Tributylphosphate
26.889	53	PB	0.067		2.852	Naled
27.077	260	VB	0.072		4.267	Phorate
29.599	142	PB	0.059		10.358	Demeton-s
30.228	277	PB	0.059		4.030	Diazinon
31.008	265	PB	0.056		4.026	Disulfoton
33.626	225	PB	0.050		3.721	Ronnel
34.980	235	BB	0.037		3.803	Chlorpyrifos
35.063	275	MF	0.038		4.418	Trichloronate
35.115	183	FM	0.035		3.065	Methyl Parathion
35.535	192	PB	0.033		3.705	Fenthion
35.691	6	PB	0.031		0.132	Malathion
36.883	232	PB	0.023		3.948	Tokuthion
36.944	227	VB	0.025		4.570	Merphos
37.137	143	PB	0.021		3.158	Stirophos
38.104	182	BB	0.021		3.747	Bolstar
38.613	123	PB	0.020		3.301	Fensulfothion
40.054	87	PB	0.024		3.483	Azinphos Methyl
41.367	98	PB	0.032		3.191	Coumaphos


NPD2 B, (080116\08011602.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
10.440 - Dichlorvos
17.646 - Mevinphos
18.060
23.620 - Demeton-o
24.854
25.228 - Tributylphosphate
26.889 - Naled
27.077 - Phorate
27.832
29.599 - Demeton-s
30.228 - Diazinon
31.008 - Disulfoton
33.626 - Ronnel
35.535 - Fenthion
37.137 - Stirophos
38.104 - Bolstar
38.613 - Fensulfothion
Methyl

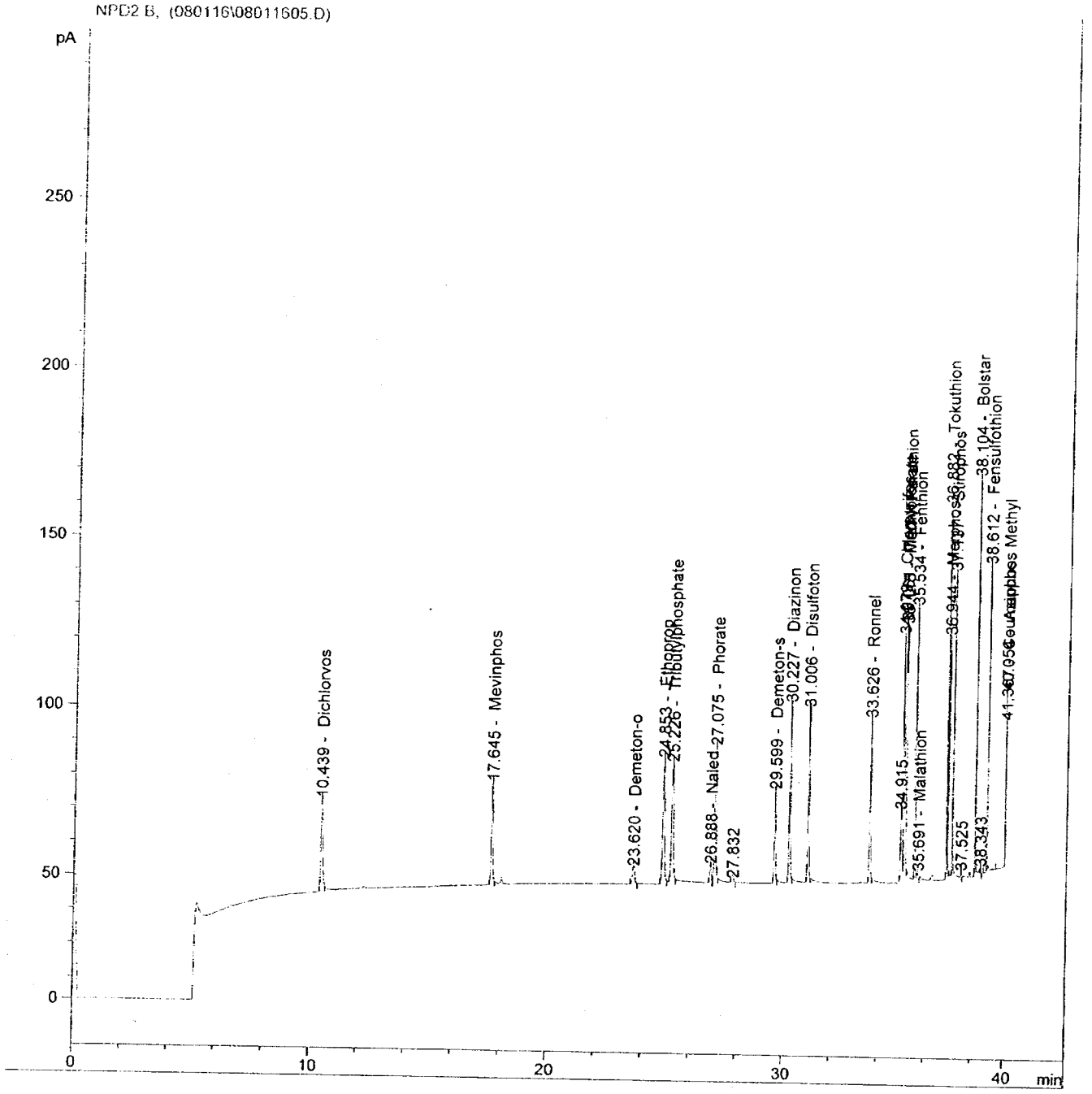
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011605.D
Operator :
Instrument : GC 26
Sample Name : ms01-1016-17
Run Time Bar Code:
Acquired on : 1/16/2008 4:47:33 PM
Report Created on: 17 Jan 08 10:05 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 5
Injection Number : 1
Sequence Line : 6
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\080116\08011605.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.439	159	PB	0.077		1.874	Dichlorvos
17.645	133	PB	0.065		4.128	Mevinphos
23.620	40	PB	0.092		0.877	Demeton-o
24.853	211	PB	0.086		2.802	Ethoprop
25.226	198	PB	0.085		2.893	Tributylphosphate
26.888	28	PB	0.066		1.524	Naled
27.075	185	VB	0.070		3.039	Phorate
29.599	111	PB	0.061		8.083	Demeton-s
30.227	196	PB	0.056		2.861	Diazinon
31.006	193	PB	0.059		2.939	Disulfoton
33.626	160	PB	0.049		2.652	Ronnel
34.979	171	FM	0.039		2.767	Chlorpyrifos
35.061	175	MF	0.038		2.808	Trichloronate
35.115	163	FM	0.036		2.722	Methyl Parathion
35.534	163	PB	0.031		3.148	Fenthion
35.691	6	PB	0.032		0.140	Malathion
36.882	158	PB	0.022		2.694	Tokuthion
36.944	102	VB	0.023		2.052	Merphos
37.137	124	PB	0.021		2.729	Stirophos
38.104	151	BB	0.020		3.096	Bolstar
38.612	113	PB	0.019		3.042	Fensulfothion
40.054	79	PB	0.024		3.169	Azinphos Methyl
41.367	89	PB	0.032		2.885	Coumaphos


NPD2 B, (080116\08011605.D)
pA
250
200
150
100
50
0
10.439 - Dichlorvos
17.645 - Mevinphos
23.620 - Demeton-o
24.853 - Ethoprop
25.226 - Tributylphosphate
26.888 - Naled
27.075 - Phorate
27.832
29.599 - Demeton-s
30.227 - Diazinon
31.006 - Disulfoton
33.626 - Ronnel
34.915
35.534 - Fenthion
35.691 - Malathion
36.882 - Tokuthion
37.525
38.104 - Bolstar
38.343
38.612 - Fensulfothion
0
10
20
30
40
min

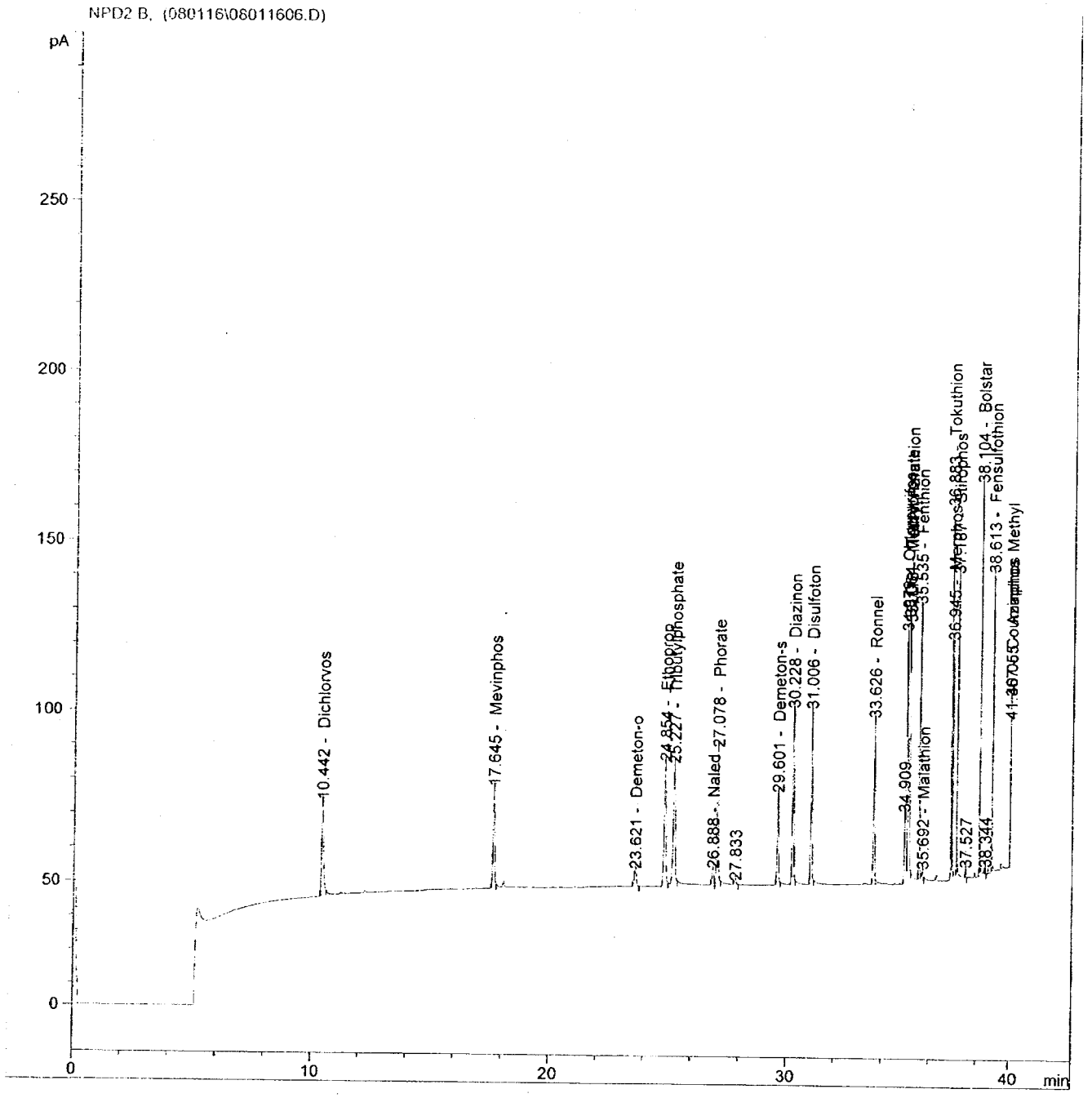
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011606.D
Operator :
Instrument : GC 26
Sample Name : msd01-1016-17
Run Time Bar Code:
Acquired on : 1/16/2008 5:34:05 PM
Report Created on: 17 Jan 08 10:06 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 7
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\080116\08011606.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.442	157PB		0.075		1.851	Dichlorvos
17.645	128PB		0.065		3.994	Mevinphos
23.621	40PB		0.093		0.868	Demeton-o
24.854	207PB		0.086		2.748	Ethoprop
25.227	193PB		0.084		2.819	Tributylphosphate
26.888	26PB		0.068		1.413	Naled
27.078	186VB		0.071		3.048	Phorate
29.601	108PB		0.061		7.836	Demeton-s
30.228	194PB		0.059		2.820	Diazinon
31.006	191PB		0.057		2.906	Disulfoton
33.626	159PB		0.051		2.639	Ronnel
34.979	173FM		0.039		2.796	Chlorpyrifos
35.064	177MF		0.038		2.833	Trichloronate
35.116	169FM		0.037		2.823	Methyl Parathion
35.535	162PB		0.031		3.131	Fenthion
35.692	7PB		0.027		0.150	Malathion
36.883	158PB		0.023		2.691	Tokuthion
36.945	101VB		0.023		2.040	Merphos
37.137	120PB		0.021		2.643	Stirophos
38.104	150BB		0.021		3.090	Bolstar
38.613	110PB		0.019		2.945	Fensulfothion
40.055	78PB		0.024		3.112	Azinphos Methyl
41.367	88PB		0.032		2.859	Coumaphos


NPD2 B, (080116\08011606.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
10.442 - Dichlorvos
17.645 - Mevinphos
23.621 - Demeton-o
24.854 - Ethoprop
25.227 - Tributylphosphate
26.888 - Naled
27.078 - Phorate
27.833
29.601 - Demeton-s
30.228 - Diazinon
31.006 - Disulfoton
33.626 - Ronnel
34.909
35.692 - Malathion
35.535 - Fenthion
36.945
37.527
38.344
38.613 - Fensulfothion
38.104 - Bolstar
Tokuthion
Methyl

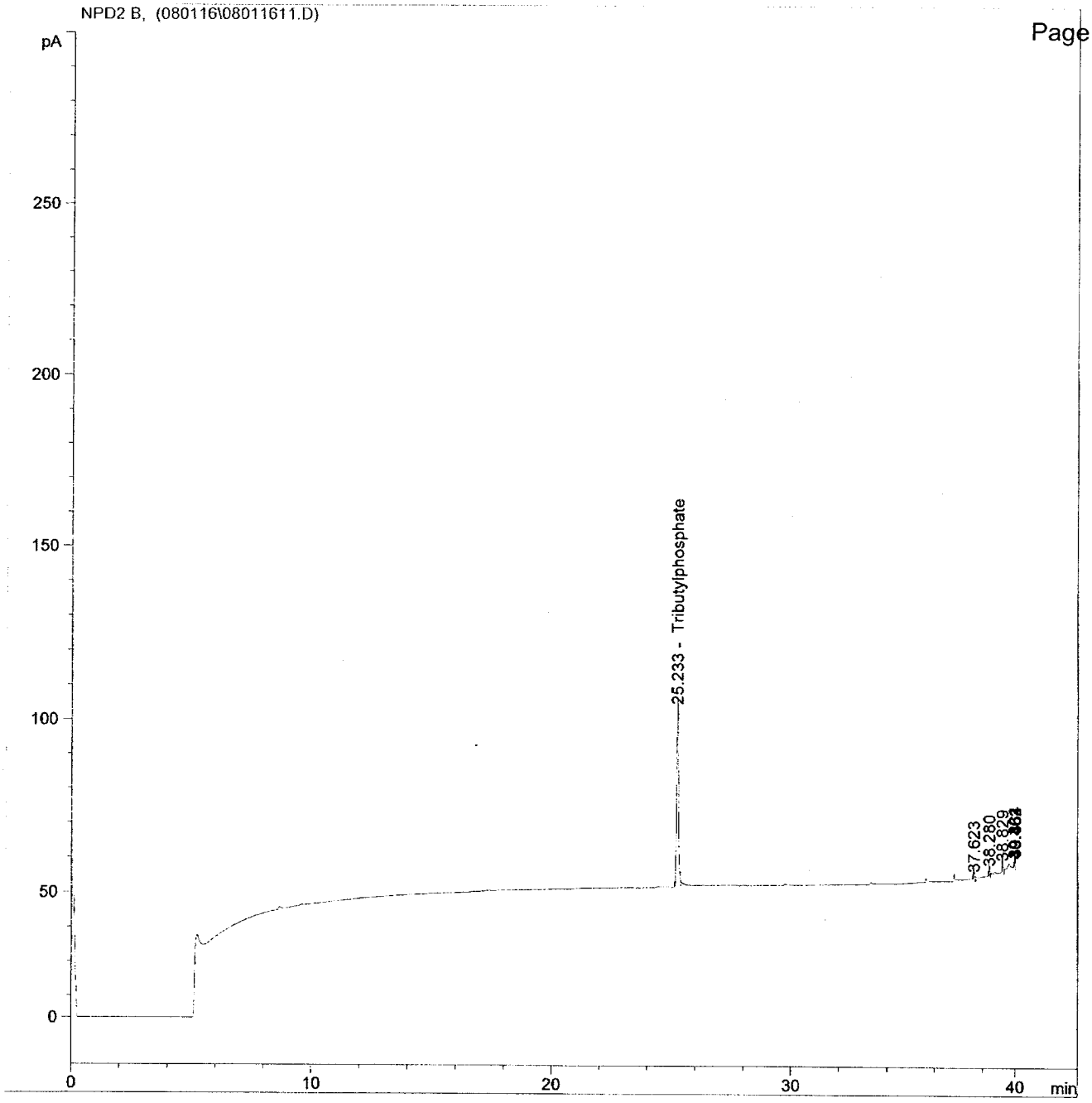
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011611.D
Operator :
Instrument : GC 26
Sample Name : 01-0945-1
Run Time Bar Code:
Acquired on : 1/16/2008 9:26:46 PM
Report Created on: 17 Jan 08 10:13 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 12
Injection Number : 1
Sequence Line : 12
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\080116\08011611.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
0.000	0		0.000		0.000	Dichlorvos
0.000	0		0.000		0.000	Mevinphos
0.000	0		0.000		0.000	Demeton-o
0.000	0		0.000		0.000	Ethoprop
25.233	286	PB	0.071		4.181	Tributylphosphate
0.000	0		0.000		0.000	Naled
0.000	0		0.000		0.000	Phorate
0.000	0		0.000		0.000	Demeton-s
0.000	0		0.000		0.000	Diazinon
0.000	0		0.000		0.000	Disulfoton
0.000	0		0.000		0.000	Ronnel
0.000	0		0.000		0.000	Chlorpyrifos
0.000	0		0.000		0.000	Trichloronate
0.000	0		0.000		0.000	Methyl Parathion
0.000	0		0.000		0.000	Fenthion
0.000	0		0.000		0.000	Malathion
0.000	0		0.000		0.000	Tokuthion
0.000	0		0.000		0.000	Merphos
0.000	0		0.000		0.000	Stirophos
0.000	0		0.000		0.000	Bolstar
0.000	0		0.000		0.000	Fensulfothion
0.000	0		0.000		0.000	Azinphos Methyl
0.000	0		0.000		0.000	Coumaphos


NPD2 B, (080116\08011611.D)
pA
250
200
150
100
50
0
25.233 - Tributylphosphate
37.623
38.280
38.829
0
10
20
30
40
min

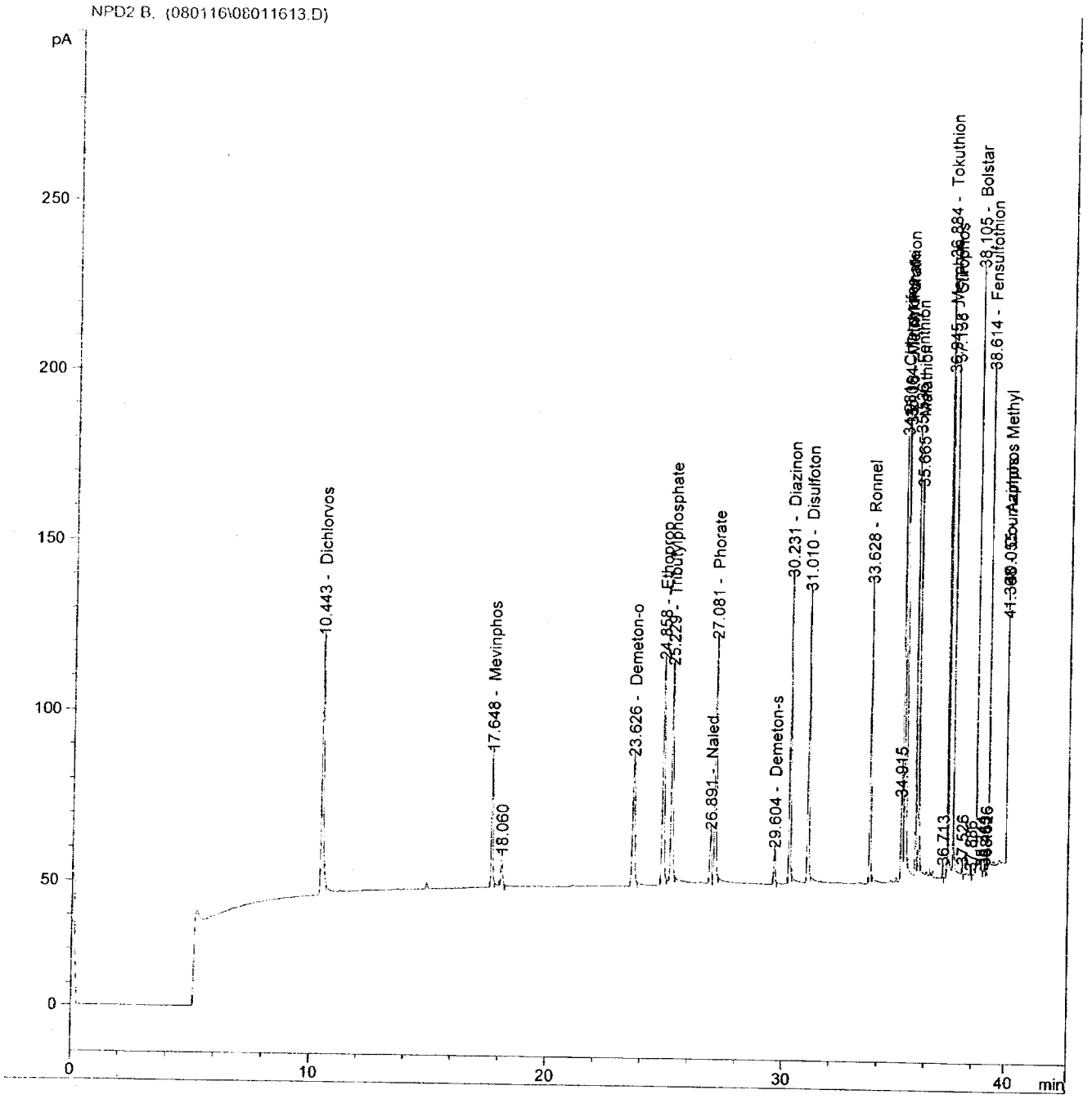
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080116\08011613.D
Operator :
Instrument : GC 26
Sample Name : 4ppm
Run Time Bar Code:
Acquired on : 1/16/2008 10:59:57 PM
Report Created on: 17 Jan 08 10:17 am
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 14
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\080116\08011613.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
10.443	410	PB	0.076		4.833	Dichlorvos
17.648	167	PB	0.065		5.190	Mevinphos
23.626	237	PB	0.097		5.203	Demeton-o
24.858	366	PB	0.088		4.856	Ethoprop
25.229	340	PB	0.084		4.973	Tributylphosphate
26.891	68	PB	0.066		3.717	Naled
27.081	330	VB	0.074		5.417	Phorate
29.604	43	PB	0.057		3.148	Demeton-s
30.231	337	PB	0.058		4.905	Diazinon
31.010	325	PB	0.062		4.941	Disulfoton
33.628	285	PB	0.052		4.723	Ronnel
34.981	295	FM	0.038		4.761	Chlorpyrifos
35.064	277	VV	0.034		4.443	Trichloronate
35.118	304	VM	0.039		5.083	Methyl Parathion
35.536	263	BB	0.032		5.095	Fenthion
35.665	238	BB	0.033		5.417	Malathion
36.884	259	PB	0.023		4.421	Tokuthion
36.945	217	VB	0.024		4.366	Merphos
37.138	191	PB	0.020		4.219	Stirophos
38.105	231	PB	0.020		4.742	Bolstar
38.614	191	PB	0.020		5.138	Fensulfothion
40.055	125	PB	0.024		5.028	Azinphos Methyl
41.368	149	PB	0.033		4.845	Coumaphos


NPD2 B, (080116\08011613.D)
pA
250
200
150
100
50
0
0
10
20
30
40
min
10.443 - Dichlorvos
17.648 - Mevinphos
18.060
23.626 - Demeton-o
24.858 - Ethoprop
25.229 - Tributylphosphate
26.891 - Naled
27.081 - Phorate
29.604 - Demeton-s
30.231 - Diazinon
31.010 - Disulfoton
33.628 - Ronnel
34.915
36.713
36.884 - Tokuthion
38.105 - Bolstar
38.614 - Fensulfothion
Methyl

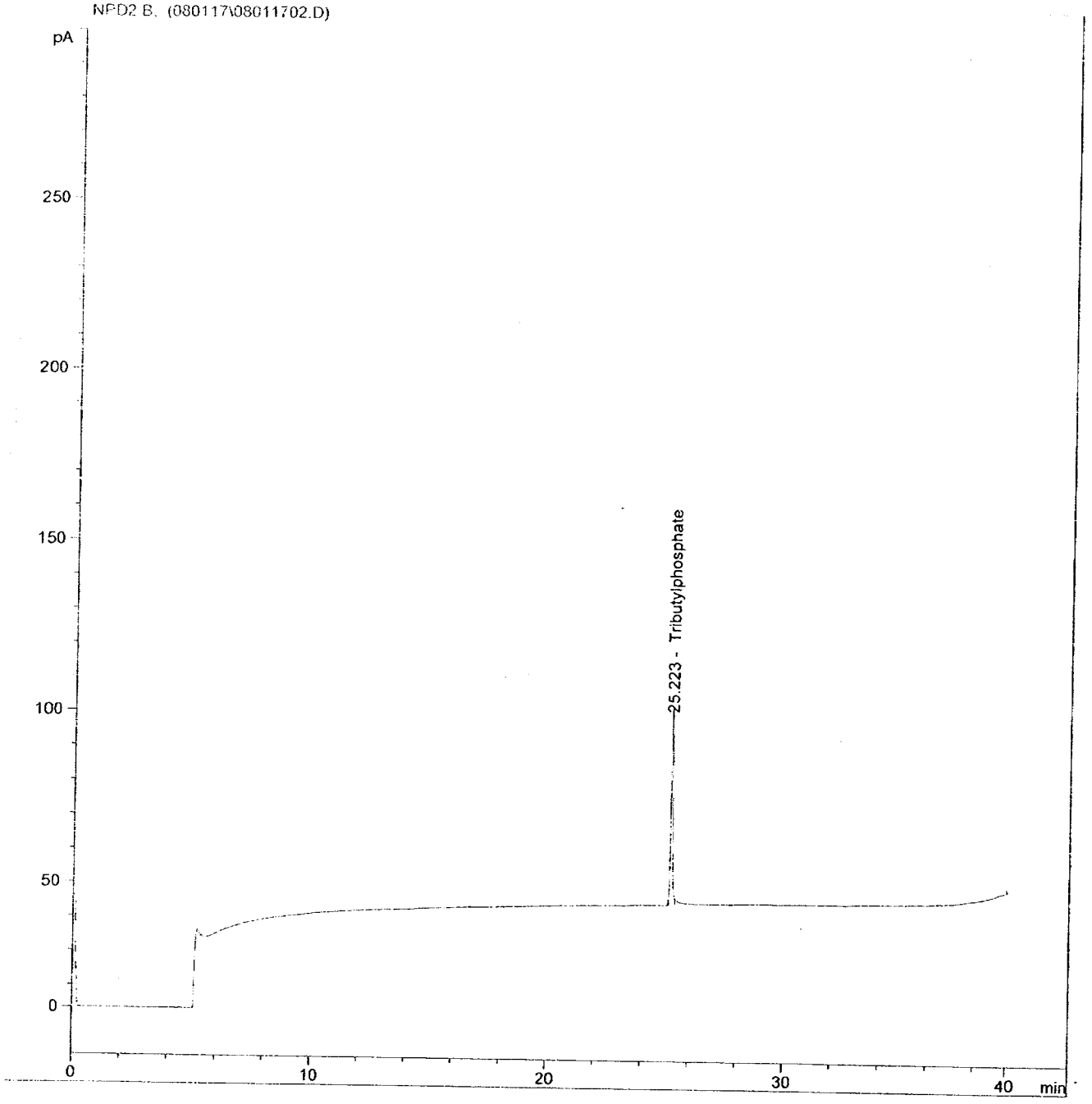
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\080117\08011702.D
Operator :
Instrument : GC 26
Sample Name : mb080116102
Run Time Bar Code:
Acquired on : 1/17/2008 11:31:04 AM
Report Created on: 17 Jan 08 00:45 pm
Calibrated on : 21 May 02 06:37 pm
Analysis Method : C:\HPCHEM\1\METHODS\071030R.M

Page Number :
Vial Number : Vial 2
Injection Number : 1
Sequence Line : 2
Instrument Method: 8141.M
Sample Amount :
Last Modified on : 01Nov07

Sig. NPD2 B C:\HPCHEM\1\DATA\080117\08011702.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
0.000	0		0.000		0.000	Dichlorvos
0.000	0		0.000		0.000	Mevinphos
0.000	0		0.000		0.000	Demeton-o
0.000	0		0.000		0.000	Ethoprop
25.223	308	PB	0.079		4.511	Tributylphosphate
0.000	0		0.000		0.000	Naled
0.000	0		0.000		0.000	Phorate
0.000	0		0.000		0.000	Demeton-s
0.000	0		0.000		0.000	Diazinon
0.000	0		0.000		0.000	Disulfoton
0.000	0		0.000		0.000	Ronnel
0.000	0		0.000		0.000	Chlorpyrifos
0.000	0		0.000		0.000	Trichloronate
0.000	0		0.000		0.000	Methyl Parathion
0.000	0		0.000		0.000	Fenthion
0.000	0		0.000		0.000	Malathion
0.000	0		0.000		0.000	Tokuthion
0.000	0		0.000		0.000	Merphos
0.000	0		0.000		0.000	Stirophos
0.000	0		0.000		0.000	Bolstar
0.000	0		0.000		0.000	Fensulfothion
0.000	0		0.000		0.000	Azinphos Methyl
0.000	0		0.000		0.000	Coumaphos


NPD2 B, (080117\08011702.D)
pA
250
200
150
100
50
0
25.223 - Tributylphosphate
0
10
20
30
40
min

Calscience
Environmental
Laboratories, Inc.

EPA 8151A Chlorinated Herbicides

Curtis & Tompkins, Ltd.

CEL #08-01-0945

200520

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

Page 73 of 100

START D = DATE T = TIME	END D = DATE T = TIME	S = SOIL A = AQUEOUS O = OIL W = WIPE F = FILTER	1 = 3510 SEP 2 = 3520 C-LL 4 = 3545 PFE 5 = 3550 SON 8 = 3580 DIL	CEL ID #	TEST METHOD	SAMPLE INITIAL W (g)/ V (mL)	SAMPLE FINAL V (mL)	MB/LCS/MS BATCH #	ANALYST	COMMENTS
D) 01-14-08	D) 01-15-08	(S) A O	(1) 2 4	08-01-0881-1A	8151	50.1	5	080114L05	FL/TT	
T) 11:00	T) NA	W F	(5) 8							
D)	D)	S A O	1 2 4	-2A		50.2				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	-4A		49.9				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	-5A		49.8				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	-6A		50.1				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	-7A		50.1				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	-8A		49.9				
T)	T)	W F	5 8							
D)	D)	(S) A O	(1) 2 4	-9A		49.9				9 mslD.
T)	T)	W F	(5) 8							
D) 01-17-08	D) 01-18-08	(S) A O	(1) 2 4	08-01-1021-1A	8151	50.1	5	080117-L18		1021-3MSD
T) 8:30	T) 5:30	W F	(5) 8							
D)	D)	S A O	1 2 4	-2A		50.2				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	-3A		50.1				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	-0945-1A		50.05				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	-0940-1A		50.1				
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							
D)	D)	S A O	1 2 4	- - -						
T)	T)	W F	5 8							

CEL ID #	SURROGATE STANDARD: STANDARD ID	SURROGATE STANDARD: a) C (ppm) b) V (mL)	SPIKE STANDARD (LCS/LCSD/MS/MSD): STANDARD ID	SPIKE STANDARD: a) C (ppm) b) V (mL)	EXTRACTION SOLVENT: NAME	EXTRACTION SOLVENT: a) LOT # / ID b) V (mL)	EXCHANGE SOLVENT: NAME	EXCHANGE SOLVENT: a) LOT # / ID b) V (mL)	ANALYST	COMMENTS
08-01-0881-1,2	E121407A	a) 100 b) 0.1		a) b)	Ether	a) E05-14-08 b) 425	Hexanes	a) E05-14-09 b) 2.5	FL	
1-2-0881-4-9		a) b)		a) b)	Acetone	a) E05-02-06 b) 60		a) b)		
- BLK -		a) b)		a) b)		a) b)		a) b)		
MS/MSD		a) b)	E05-09-14/15	a) 10-10000 b) 0.2		a) b)		a) - b)		
08-01-0881-9mx/D		a) b)		a) b)		a) b)		a) b)		
08-01-1021 1-3	E121407A	a) 100 b) 0.1		a) b)	Ether	a) E005-14-08 b) 4.25		a) b)	FL TT	
- -0945-1		a) b)		a) b)	Acetone	a) E005-02-06 b) 60		a) b)		
- -0940-1		a) b)		a) b)		a) b)		a) b)		
- - BLK		a) b)		a) b)		a) b)		a) b)		
- - LCS		a) b)	E005-09-16	a) 10-10000 b) 6.2		a) b)		a) b)		
- - LCSD		a) b)		a) b)		a) b)		a) b)		
- -1021-3MS		a) b)		a) b)		a) b)		a) b)		
- -1021-3MSD		a) b)		a) b)		a) b)		a) b)		
- - -		a) b)		a) b)		a) b)		a) b)		
- - -		a) b)		a) b)		a) b)		a) b)		
- - -		a) b)		a) b)		a) b)		a) b)		
- - -		a) b)		a) b)		a) b)		a) b)		
- - -		a) b)		a) b)		a) b)		a) b)		
- - -		a) b)		a) b)		a) b)		a) b)		
- - -		a) b)		a) b)		a) b)		a) b)		

Reviewed by: _____ Date ____ / ____ / ____

00232

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	0.4PPM	8151	1	Sample		07121301
2	Vial 2	0.8PPM	8151	1	Sample		07121302
3	Vial 3	0.6PPM	8151	1	Sample		07121303
4	Vial 4	0.2PPM	8151	1	Sample		07121304
5	Vial 6	0.4PPM ICV	8151	1	Sample		07121306
6	Vial 9	0.1PPM	8151	1	Sample		07121309
7	Vial 10	0.05PPM(W) MDL-V	8151	1	Sample		07121310
8	Vial 11	0.05PPM(S) MDL-V	8151	1	Sample		07121311
9	Vial 12	0.5PPB(W) MDL-V	504	1	Sample		07121312

Sequence Table (Back Injector):

No entries - empty table!

GC-0 Calibration of initial calibration 85F1213.MTH
Date of Run 12/13/2007

Front Column CLP 1

	CONC.(PPM)									
	0.1	0.2	0.4	0.6	0.8	RF1	RF2	RF3	RF4	RF5
Dalapon	75819.5	146254.1	252917.7	409998.4	479851.1	3.03E+04	2.93E+04	2.53E+04	2.73E+04	2.40E+04
2,4-Dichlorophenylacetic	160769	296656.8	508015.7	806730.2	929366.3	3.22E+05	2.97E+05	2.54E+05	2.69E+05	2.32E+05
Dicamba	119875	224794	389868.8	634875.3	727613.7	1.20E+06	1.12E+06	9.75E+05	1.06E+06	9.10E+05
MCPP	111912.7	199406.5	343360.8	560067.6	648684.8	1.12E+03	9.97E+02	8.58E+02	9.33E+02	8.11E+02
MCPA	165344.3	289741.6	483977.3	785876.2	909917	1.65E+03	1.45E+03	1.21E+03	1.31E+03	1.14E+03
Dichlorprop	297900.3	536698.5	890988.1	1398696.9	1588208.4	2.98E+06	2.68E+06	2.23E+06	2.33E+06	1.99E+06
2,4-D	384454.7	718393.5	1227310.2	1943824.5	2210218.7	3.84E+05	3.59E+05	3.07E+05	3.24E+05	2.76E+05
2,3,5-TP(Silvex)	153218.2	320424.5	580230.4	945794.4	1087298.4	1.53E+06	1.60E+06	1.45E+06	1.58E+06	1.36E+06
2,4,5-T	158240.2	286240.6	534151.9	876719.3	1002928.1	1.58E+06	1.43E+06	1.34E+06	1.46E+06	1.25E+06
2,4-DB	185884.3	384166.9	690153.1	1125772.6	1288988	1.86E+05	1.92E+05	1.73E+05	1.88E+05	1.61E+05
Dinoseb	558662.9	1007666.1	1734466.5	2755259	3126684.5	1.12E+06	1.01E+06	8.67E+05	9.18E+05	7.82E+05

					ICV		
	AVG. RF	STDEV	%RSD	1/AVG. RF	AREA	RF	%D
Dalapon	2.72E+04	2642.3519	**9.7**	3.6712E-05	274773.1	27477.31	**0.9**
2,4-Dichlorophenylacetic	2.75E+05	35113.471	**12.8**	3.6405E-06	565387.1	282693.55	**2.9**
Dicamba	1.05E+06	115139.79	**10.9**	9.4966E-07	432013.4	1080033.5	**2.6**
MCPP	9.44E+02	121.08611	**12.8**	0.00105958	397858.1	994.64525	**5.4**
MCPA	1.35E+03	205.0832	**15.2**	0.00073972	539668.8	1349.172	**0.2**
Dichlorprop	2.44E+06	391665.48	**16.0**	4.0962E-07	1001495.9	2503739.8	**2.6**
2,4-D	3.30E+05	42652.953	**12.9**	3.029E-06	1349349.6	337337.4	**2.2**
2,3,5-TP(Silvex)	1.50E+06	99368.58	**6.6**	6.6486E-07	631876.4	1579691	**5.0**
2,4,5-T	1.41E+06	125265.06	**8.9**	7.0783E-07	581536.4	1453841	**2.9**
2,4-DB	1.80E+05	12754.631	**7.1**	5.5601E-06	768409.2	192102.3	**6.8**
Dinoseb	9.38E+05	129267.24	**13.8**	1.0656E-06	1868127.4	934063.7	**0.5**

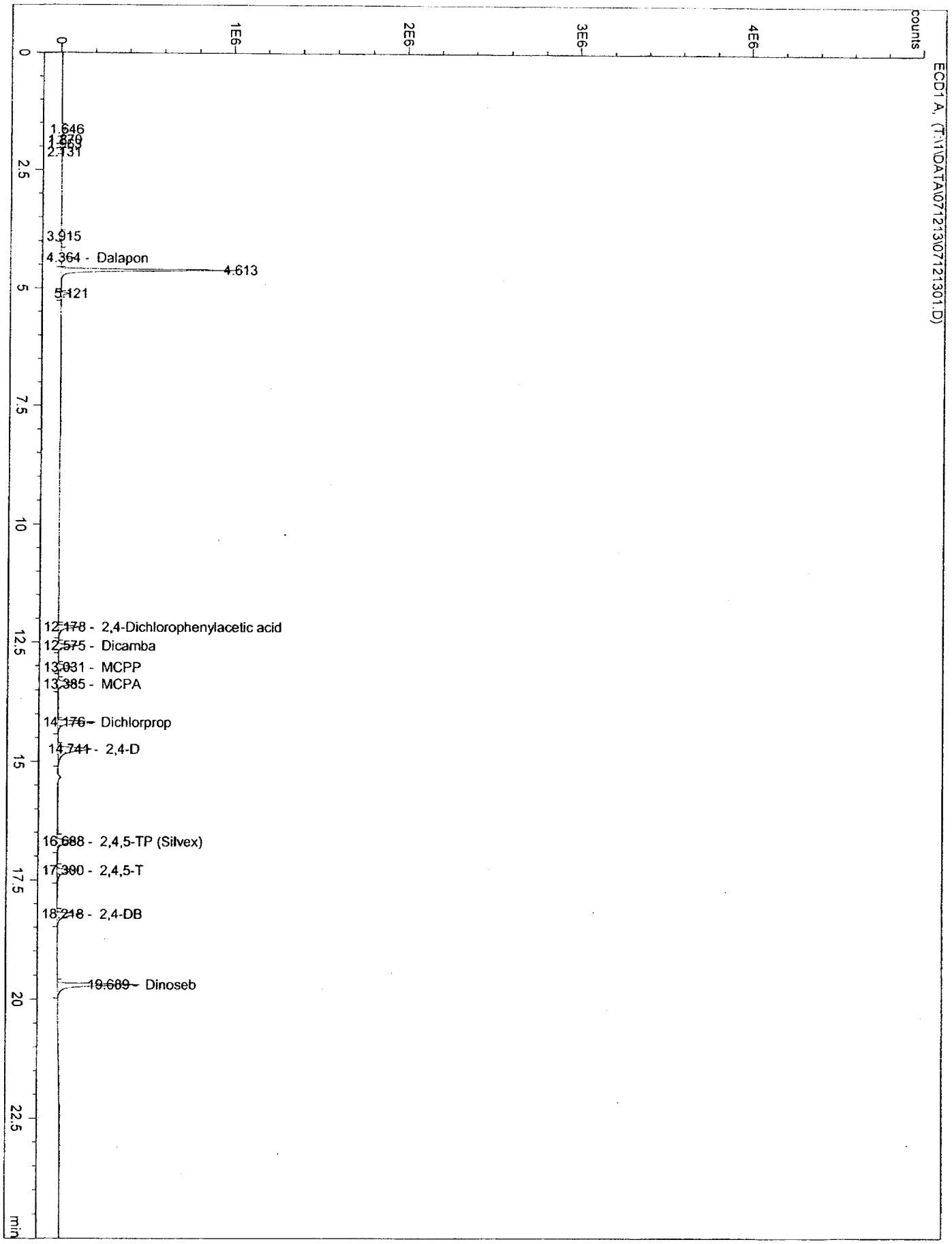
External Standard Report

Data File Name : T:\1\DATA\071213\07121301.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM CCV
Run Time Bar Code:
Acquired on : 12/13/2007 10:50 am
Report Created on: 13 Dec 07 11:56 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F0917.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 1
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD1A, T:\1\DATA\071213\07121301.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
4.364	252917.7	BV	0.045		6.622	Dalapon
12.178	508015.7	BB	0.062		1.454	2,4-Dichlorophenylacetic acid
12.575	389868.8	BB	0.051		0.287	Dicamba
13.031	343360.8	BB	0.060		285.674	MCPP
13.385	483977.3	BB	0.064		278.762	MCPA
14.176	890988.1	BB	0.061		2.902	Dichlorprop
14.741	1227310.2	BB	0.090		2.985	2,4-D
16.688	580230.4	BB	0.079		0.305	2,4,5-TP (Silvex)
17.300	534151.9	BB	0.079		0.301	2,4,5-T
18.218	690153.1	BB	0.074		3.009	2,4-DB
19.689	1734466.5	BB	0.053		1.531	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\07121307121301.D)
1.646
2.131
3.915
4.364 - Dalapon
4.613
5.121
12.178 - 2,4-Dichlorophenylacetic acid
12.575 - Dicamba
13.031 - MCPP
13.385 - MCPA
14.176 - Dichlorprop
14.741 - 2,4-D
16.688 - 2,4,5-TP (Silvex)
17.390 - 2,4,5-T
18.218 - 2,4-DB
19.689 - Dinoseb
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5

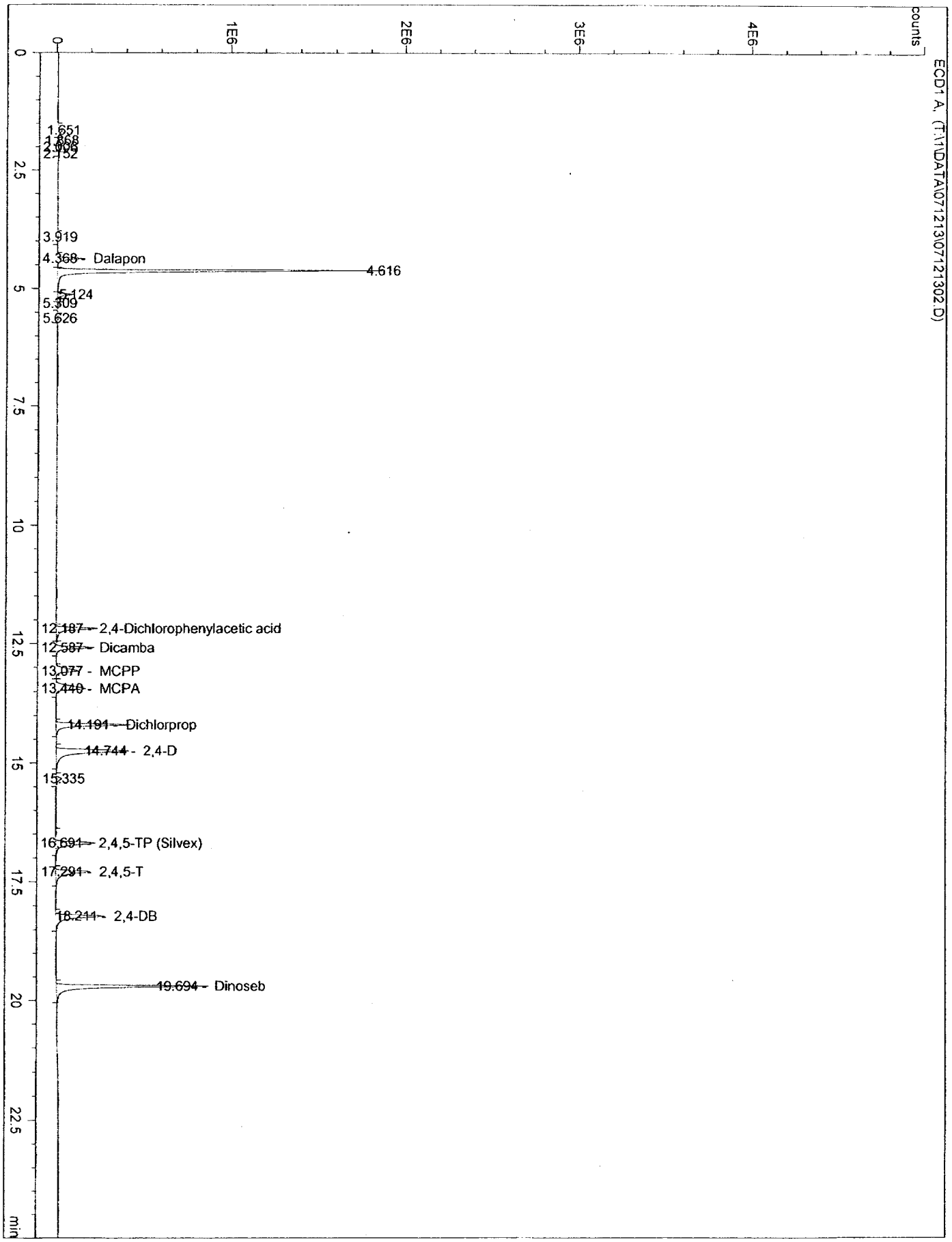
External Standard Report

Data File Name : T:\1\DATA\071213\07121302.D
Operator :
Instrument : GC 0
Sample Name : 0.8PPM
Run Time Bar Code:
Acquired on : 12/13/2007 11:24 am
Report Created on: 13 Dec 07 11:56 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F0917.M

Page Number :
Vial Number : Vial 2
Injection Number : 1
Sequence Line : 2
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD1 A, T:\1\DATA\071213\07121302.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
4.368	479851.1	BV	0.046		12.564	Dalapon
12.187	929366.3	BB	0.058		2.659	2,4-Dichlorophenylacetic acid
12.587	727613.7	BB	0.051		0.535	Dicamba
13.077	648684.8	BB	0.067		539.702	MCPP
13.440	909917.0	BB	0.074		524.095	MCPA
14.191	1588208.4	BB	0.056		5.173	Dichlorprop
14.744	2210218.7	BB	0.078		5.375	2,4-D
16.691	1087298.4	BB	0.071		0.572	2,4,5-TP (Silvex)
17.291	1002928.1	BB	0.074		0.566	2,4,5-T
18.211	1288988.0	BB	0.067		5.621	2,4-DB
19.694	3126684.5	BB	0.052		2.760	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\071213\07121302.D)
1.651
3.919
4.368 Dalapon
4.616
5.124
5.309
5.626
12.187 2,4-Dichlorophenylacetic acid
12.587 Dicamba
13.077 MCPP
13.440 MCPA
14.191 Dichlorprop
14.744 2,4-D
15.335
16.691 2,4,5-TP (Silvex)
17.291 2,4,5-T
18.214 2,4-DB
19.694 Dinoseb
min

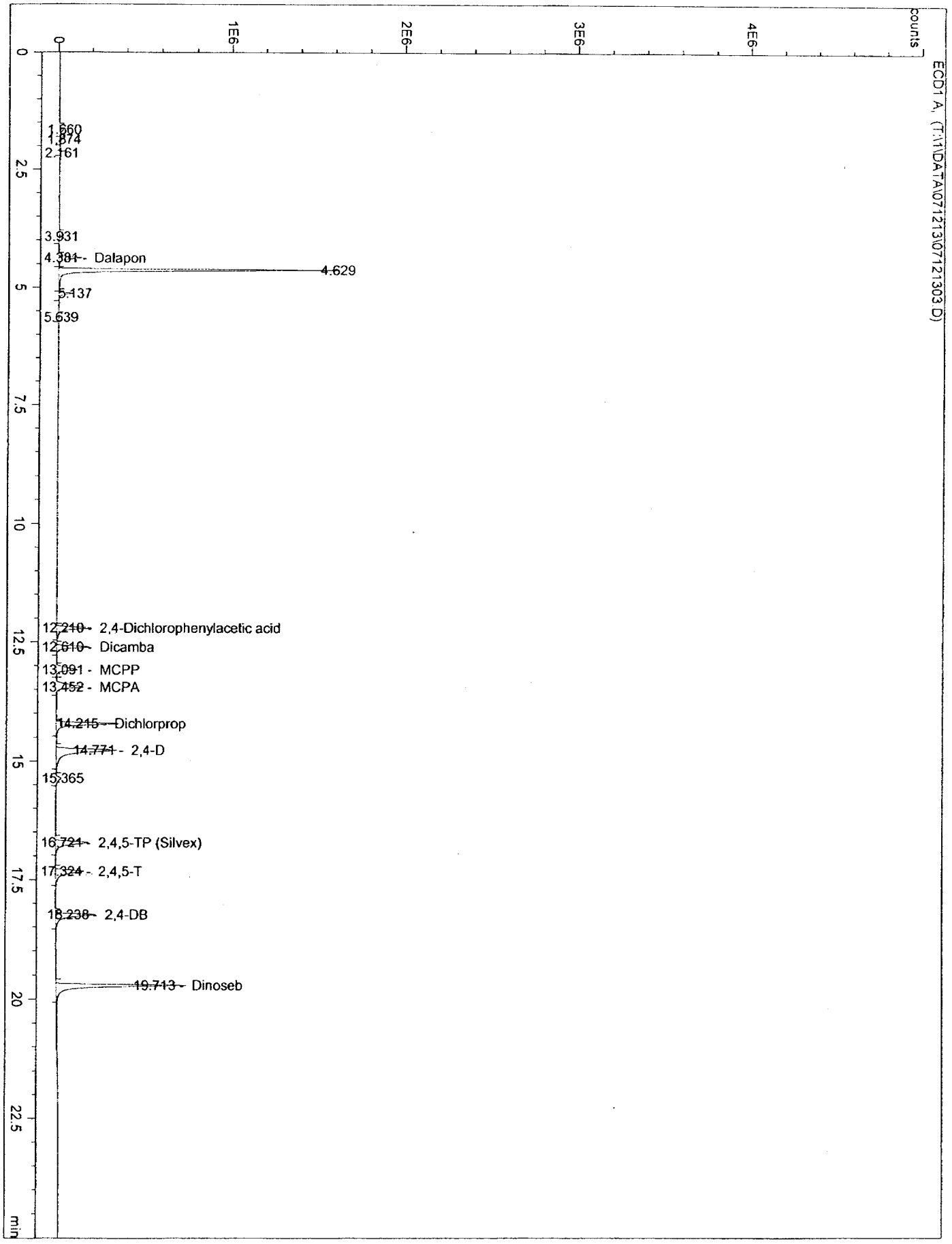
External Standard Report

Data File Name : T:\1\DATA\071213\07121303.D
Operator :
Instrument : GC 0
Sample Name : 0.6PPM
Run Time Bar Code:
Acquired on : 12/13/2007 11:57 am
Report Created on: 13 Dec 07 00:27 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F0917.M

Page Number :
Vial Number : Vial 3
Injection Number : 1
Sequence Line : 3
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD1 A, T:\1\DATA\071213\07121303.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
4.381	409998.4	BV	0.045		10.735	Dalapon
12.210	806730.2	BB	0.059		2.308	2,4-Dichlorophenylacetic acid
12.610	634875.3	BB	0.052		0.467	Dicamba
13.091	560067.6	BB	0.066		465.973	MCPP
13.452	785876.2	BB	0.076		452.650	MCPA
14.215	1398696.9	BB	0.058		4.556	Dichlorprop
14.771	1943824.5	BB	0.081		4.727	2,4-D
16.721	945794.4	BB	0.075		0.497	2,4,5-TP (Silvex)
17.324	876719.3	BB	0.078		0.494	2,4,5-T
18.238	1125772.6	BB	0.070		4.909	2,4-DB
19.713	2755259.0	BB	0.054		2.432	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\071213\0712130 3 D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.660
1.874
2.161
3.931
4.381 - Dalapon
4.629
5.137
5.639
12.210 - 2,4-Dichlorophenylacetic acid
12.610 - Dicamba
13.091 - MCPP
13.452 - MCPA
14.215 - Dichlorprop
14.771 - 2,4-D
15.365
16.721 - 2,4,5-TP (Silvex)
17.324 - 2,4,5-T
18.238 - 2,4-DB
19.713 - Dinoseb

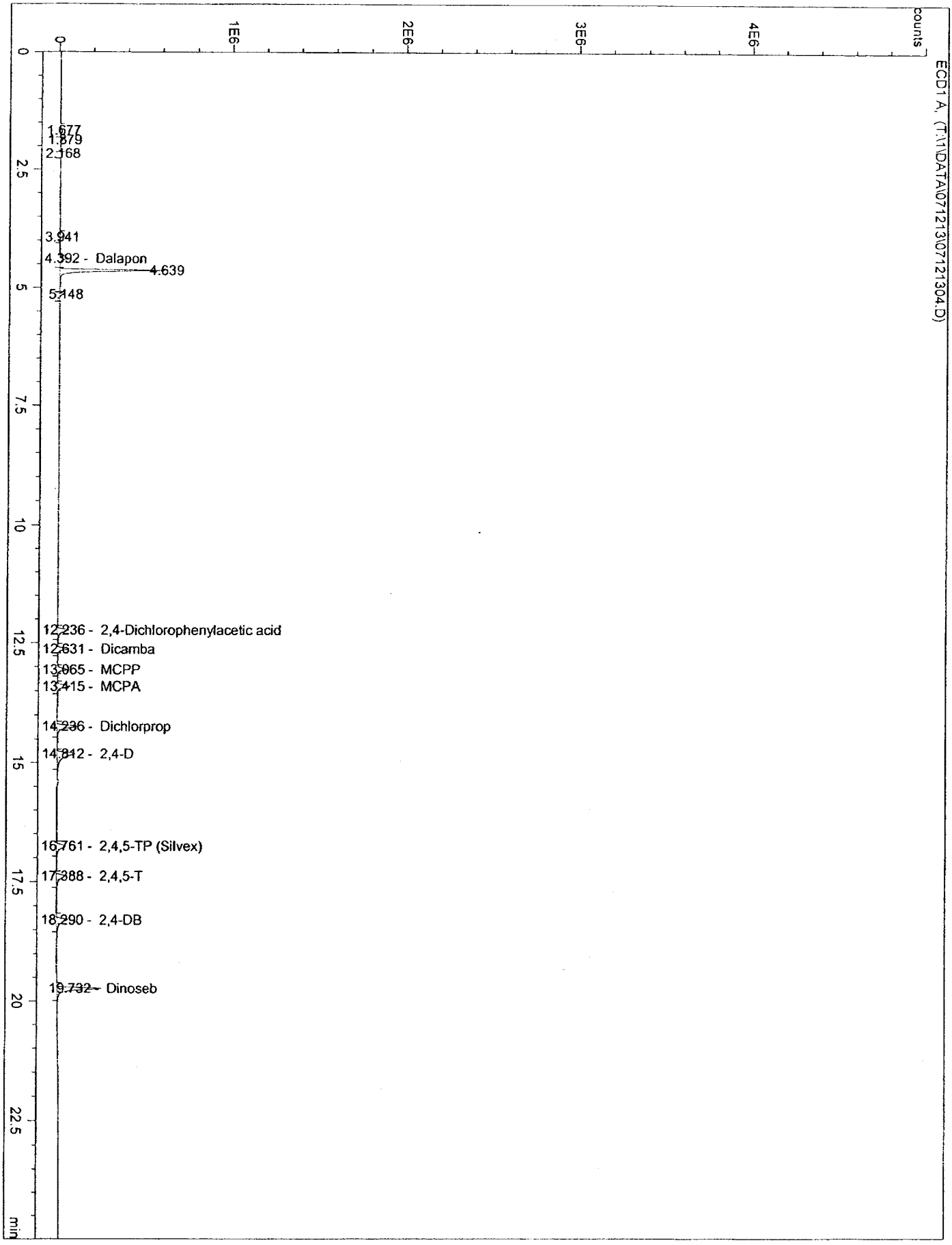
External Standard Report

Data File Name : T:\1\DATA\071213\07121304.D
Operator :
Instrument : GC 0
Sample Name : 0.2PPM
Run Time Bar Code:
Acquired on : 12/13/2007 00:31 pm
Report Created on: 13 Dec 07 01:48 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F0917.M

Page Number :
Vial Number : Vial 4
Injection Number : 1
Sequence Line : 4
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD1 A, T:\1\DATA\071213\07121304.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
4.392	146254.1BV		0.045		3.829	Dalapon
12.236	296656.8BB		0.068		0.849	2,4-Dichlorophenylacetic acid
12.631	224794.0BB		0.052		0.165	Dicamba
13.065	199406.5BB		0.055		165.905	MCPP
13.415	289741.6BB		0.060		166.886	MCPA
14.236	536698.5BB		0.065		1.748	Dichlorprop
14.812	718393.5BB		0.103		1.747	2,4-D
16.761	320424.5BB		0.094		0.168	2,4,5-TP (Silvex)
17.388	286240.6BB		0.090		0.161	2,4,5-T
18.290	384166.9BB		0.087		1.675	2,4-DB
19.732	1007666.1BB		0.057		0.890	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1A, (T:\1\DATA\071213\07121304.D)
1.677
1.879
2.168
3.941
4.392 - Dalapon
4.639
5.148
12.236 - 2,4-Dichlorophenylacetic acid
12.631 - Dicamba
13.065 - MCPP
13.415 - MCPA
14.236 - Dichlorprop
14.842 - 2,4-D
16.761 - 2,4,5-TP (Silvex)
17.388 - 2,4,5-T
18.290 - 2,4-DB
19.732 - Dinoseb
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
min

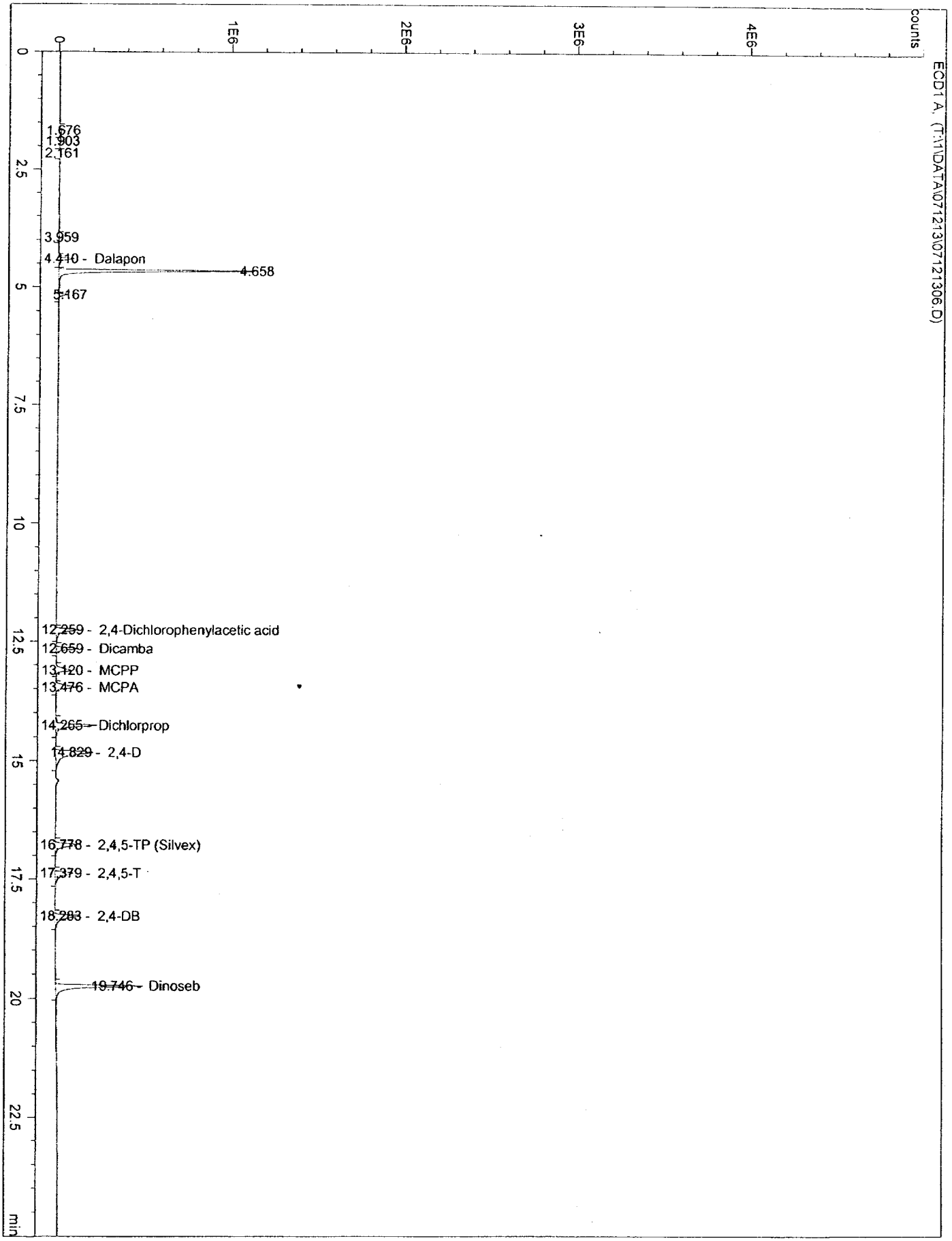
External Standard Report

Data File Name : T:\1\DATA\071213\07121306.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM ICV
Run Time Bar Code:
Acquired on : 12/13/2007 01:38 pm
Report Created on: 13 Dec 07 02:04 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F0917.M

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 6
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD1 A. T:\1\DATA\071213\07121306.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
4.410	274773.1BV		0.045		7.195	Dalapon
12.259	565387.1BB		0.063		1.618	2,4-Dichlorophenylacetic acid
12.659	432013.4BB		0.052		0.318	Dicamba
13.120	397858.1BB		0.063		331.016	MCPP
13.476	539668.8BB		0.065		310.839	MCPA
14.265	1001495.9BB		0.062		3.262	Dichlorprop
14.829	1349349.6BB		0.088		3.282	2,4-D
16.778	631876.4BB		0.078		0.332	2,4,5-TP (Silvex)
17.379	581536.4BB		0.082		0.328	2,4,5-T
18.283	768409.2BB		0.075		3.351	2,4-DB
19.746	1868127.4BB		0.053		1.649	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\071213\07121306.D)
1.676
1.903
2.161
3.959
4.410 - Dalapon
4.658
5.167
12.259 - 2,4-Dichlorophenylacetic acid
12.659 - Dicamba
13.120 - MCPP
13.476 - MCPA
14.265 - Dichlorprop
14.829 - 2,4-D
16.778 - 2,4,5-TP (Silvex)
17.379 - 2,4,5-T
18.283 - 2,4-DB
19.746 - Dinoseb
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
min

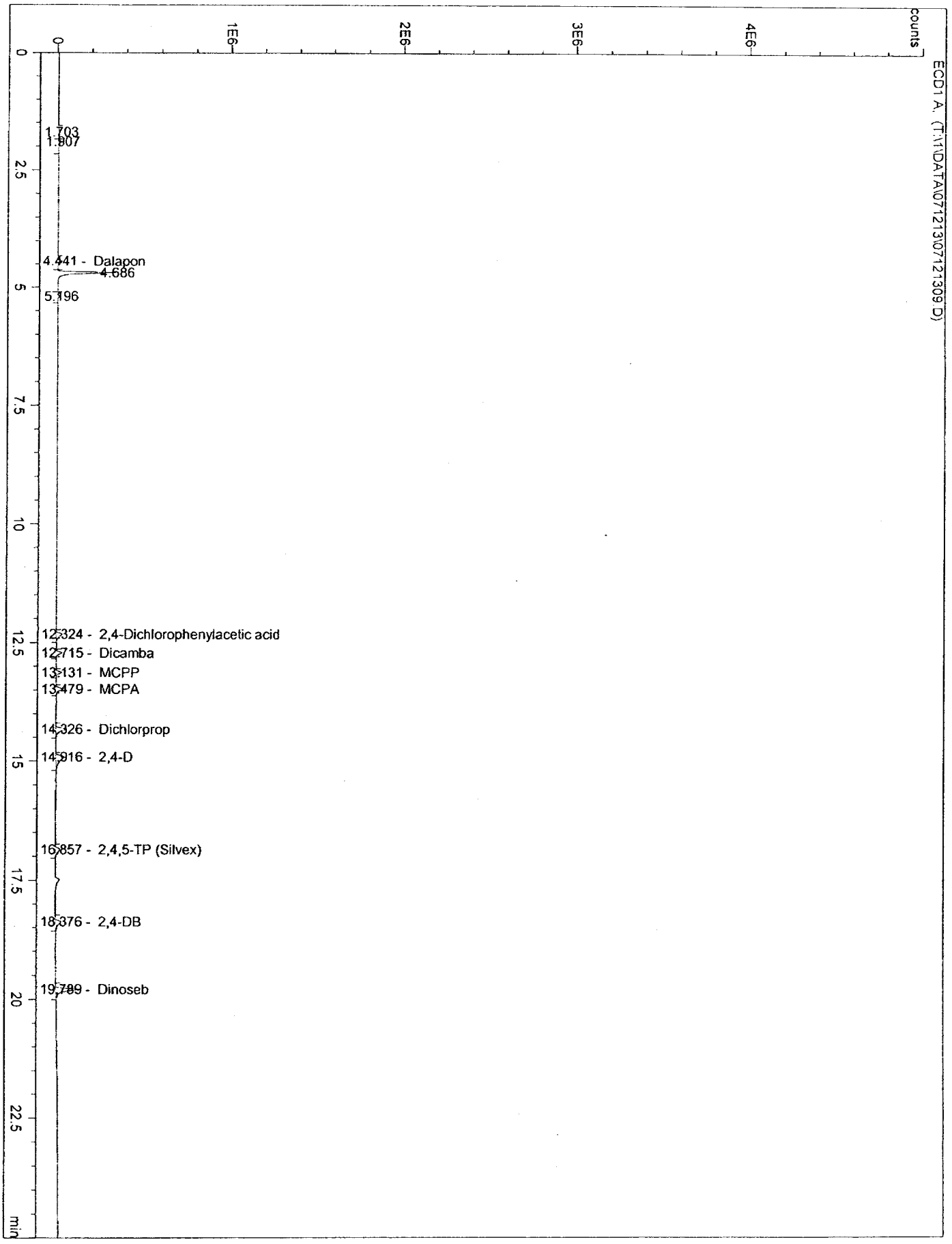
External Standard Report

Data File Name : T:\1\DATA\071213\07121309.D
Operator :
Instrument : GC 0
Sample Name : 0.1PPM
Run Time Bar Code:
Acquired on : 12/13/2007 03:18 pm
Report Created on: 13 Dec 07 03:48 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F0917.M

Page Number :
Vial Number : Vial 9
Injection Number : 1
Sequence Line : 9
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD1 A, T:\1\DATA\071213\07121309.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
4.441	75819.5BV		0.046		1.985	Dalapon
12.324	160769.0BB		0.073		0.460	2,4-Dichlorophenylacetic acid
12.715	119875.0BB		0.053		0.088	Dicamba
13.131	111912.7BB		0.054		93.111	MCPP
13.479	165344.3BB		0.059		95.235	MCPA
14.326	297900.3BB		0.068		0.970	Dichlorprop
14.916	384454.7BB		0.117		0.935	2,4-D
16.857	153218.2BB		0.100		0.081	2,4,5-TP (Silvex)
0.000	0.0		0.000		0.000	2,4,5-T
18.376	185884.3BB		0.090		0.811	2,4-DB
19.789	558662.9BB		0.058		0.493	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\071213\07121309 D)
1.703
1.807
4.441 - Dalapon
4.686
5.196
12.324 - 2,4-Dichlorophenylacetic acid
12.715 - Dicamba
13.131 - MCPP
13.479 - MCPA
14.326 - Dichlorprop
14.916 - 2,4-D
16.857 - 2,4,5-TP (Silvex)
18.376 - 2,4-DB
19.789 - Dinoseb
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5

GC-0 Calibration of initial calibration 85R1213.MTH
Date of Run 12/13/2007

REAR Column

	CONC.(PPM)									
	0.1	0.2	0.4	0.6	0.8	RF1	RF2	RF3	RF4	RF5
Dalapon	57446	115410.3	208864	343800.9	403354.8	2.30E+04	2.31E+04	2.09E+04	2.29E+04	2.02E+04
2,4-Dichlorophenylacetic	172808.6	320512.3	539283.9	860592.3	1002488.6	3.46E+05	3.21E+05	2.70E+05	2.87E+05	2.51E+05
Dicamba	111471.1	222523.4	392664	654749.6	766132.2	1114711	1112617	981660	1091249	957665.3
MCPP	124404.3	228259.1	390638.1	634836.8	735581.8	1.24E+03	1.14E+03	9.77E+02	1.06E+03	9.19E+02
MCPA	196522.8	339060.4	561937	904072.9	1041891.7	1.97E+03	1.70E+03	1.40E+03	1.51E+03	1.30E+03
Dichlorprop	317745	578185.7	975727.9	1561278	1793134.1	3.18E+06	2.89E+06	2.44E+06	2.60E+06	2.24E+06
2,4-D	407361.6	734069.8	1230785.5	2010091	2298606.7	4.07E+05	3.67E+05	3.08E+05	3.35E+05	2.87E+05
2,3,5-TP(Silvex)	145818.8	316307.8	597540.7	993191.9	1150885.4	1.46E+06	1.58E+06	1.49E+06	1.66E+06	1.44E+06
2,4,5-T	139549.1	295792.4	541686.8	908410.6	1048260.8	1.40E+06	1.48E+06	1.35E+06	1.51E+06	1.31E+06
2,4-DB	237362.5	449456.7	772890.7	1263665.2	1445362.6	2.37E+05	2.25E+05	1.93E+05	2.11E+05	1.81E+05
Dinoseb	620787.1	1165677.6	2023318.5	3218585.5	3672675.7	1.24E+06	1.17E+06	1.01E+06	1.07E+06	9.18E+05

					ICV		
	AVG. RF	STDEV	%RSD	1/AVG. RF	AREA	RF	%D
Dalapon	2.20E+04	1375.8336	**6.3**	4.544E-05	230396.4	23039.64	**4.7**
2,4-Dichlorophenylacetic	2.95E+05	38376.387	**13.0**	3.3938E-06	594529.4	297264.7	**0.9**
Dicamba	1.05E+06	75818.008	**7.2**	9.5095E-07	451188.6	1127971.5	**7.3**
MCPP	1.07E+03	129.3019	**12.1**	0.00093642	424076.6	1060.1915	**0.7**
MCPA	1.57E+03	262.0529	**16.6**	0.00063496	636837.9	1592.0948	**1.1**
Dichlorprop	2.67E+06	370073.36	**13.9**	3.745E-07	1071531.9	2678829.8	**0.3**
2,4-D	3.41E+05	47716.557	**14.0**	2.9335E-06	1347052.5	336763.13	**1.2**
2,3,5-TP(Silvex)	1.53E+06	90934.747	**6.0**	6.5552E-07	651066.7	1627666.8	**6.7**
2,4,5-T	1.41E+06	84898.14	**6.0**	7.0892E-07	609998.5	1524996.3	**8.1**
2,4-DB	2.09E+05	22942.282	**11.0**	4.7774E-06	849412.5	212353.13	**1.4**
Dinoseb	1.08E+06	126824.5	**11.7**	9.2422E-07	2177468.8	1088734.4	**0.6**

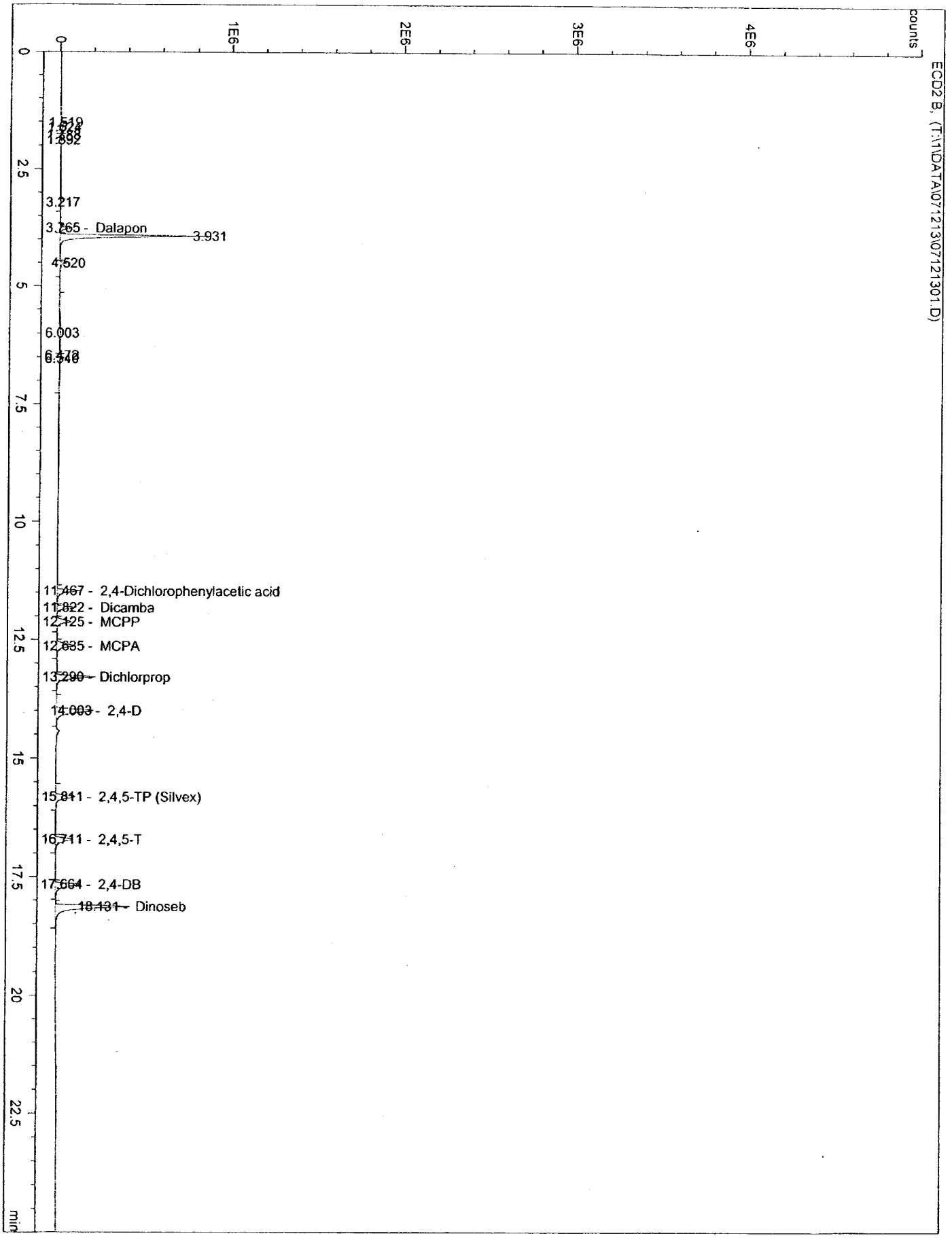
External Standard Report

Data File Name : T:\1\DATA\071213\07121301.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM CCV
Run Time Bar Code:
Acquired on : 12/13/2007 10:50 am
Report Created on: 13 Dec 07 03:59 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R0917.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 1
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD2 B, T:\1\DATA\071213\07121301.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
3.765	208864.0PV		0.043		5.922	Dalapon
11.467	539283.9BB		0.061		1.396	2,4-Dichlorophenylacetic acid
11.822	392664.0BB		0.053		0.273	Dicamba
12.125	390638.1BB		0.077		277.530	MCPP
12.635	561937.0BB		0.074		272.220	MCPA
13.290	975727.9BB		0.063		2.760	Dichlorprop
14.003	1230785.5BB		0.084		2.780	2,4-D
15.811	597540.7BB		0.081		0.289	2,4,5-TP (Silvex)
16.711	541686.8BB		0.079		0.286	2,4,5-T
17.664	772890.7BB		0.077		2.861	2,4-DB
18.131	2023318.5BB		0.067		1.489	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\071213\07121301.D)
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
min
1.392
3.217
3.265 - Dalapon
3.931
4.520
6.003
11.467 - 2,4-Dichlorophenylacetic acid
11.822 - Dicamba
12.425 - MCPP
12.635 - MCPA
13.290 - Dichlorprop
14.003 - 2,4-D
15.841 - 2,4,5-TP (Silvex)
16.711 - 2,4,5-T
17.664 - 2,4-DB
18.131 - Dinoseb

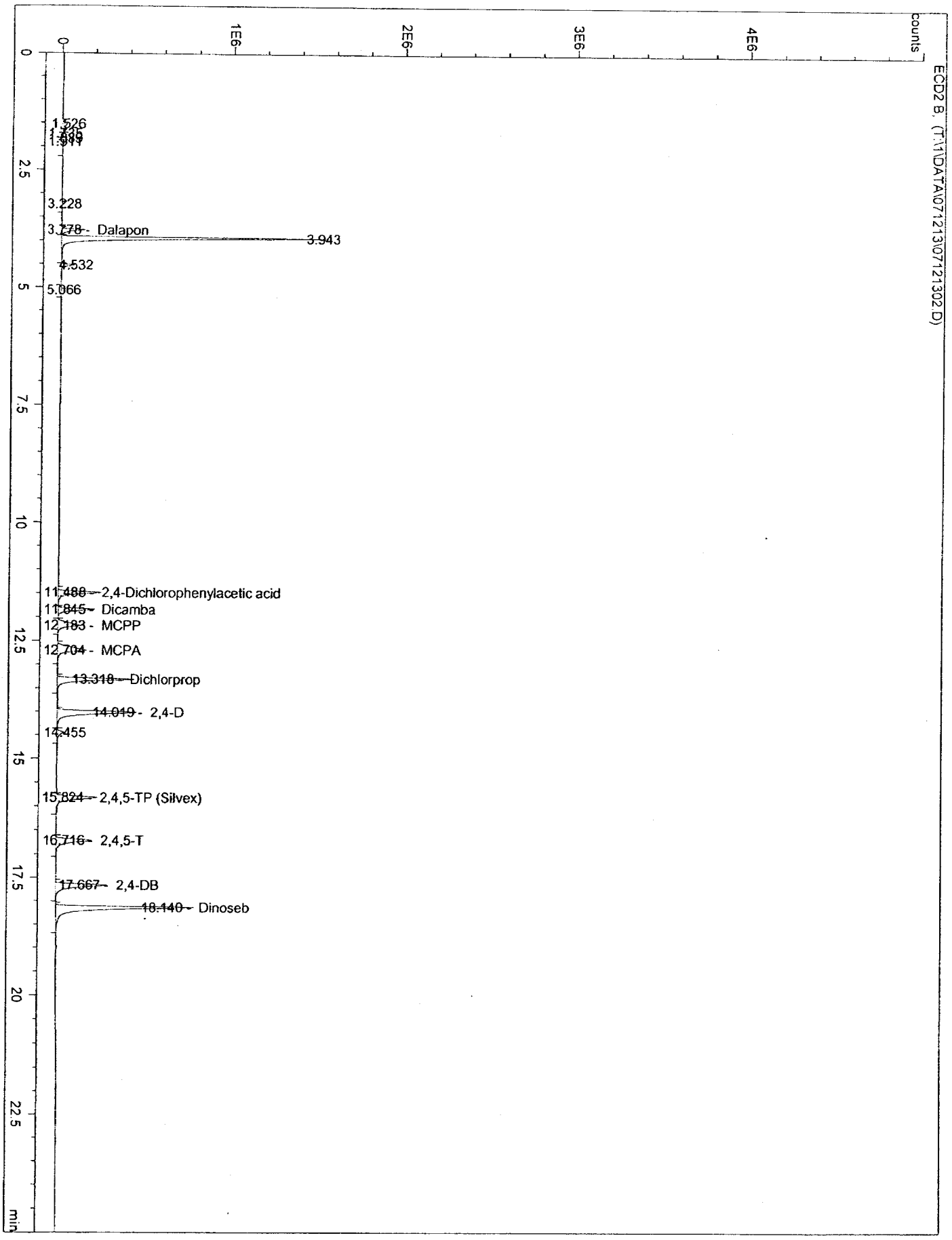
External Standard Report

Data File Name : T:\1\DATA\071213\07121302.D
Operator :
Instrument : GC 0
Sample Name : 0.8PPM
Run Time Bar Code:
Acquired on : 12/13/2007 11:24 am
Report Created on: 13 Dec 07 03:57 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R0917.M

Page Number :
Vial Number : Vial 2
Injection Number : 1
Sequence Line : 2
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD2B. T:\1\DATA\071213\07121302.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
3.778	403354.8PV		0.044		11.437	Dalapon
11.488	1002488.6BV		0.059		2.595	2,4-Dichlorophenylacetic acid
11.845	766132.2VV		0.055		0.533	Dicamba
12.183	735581.8VB		0.080		522.596	MCPP
12.704	1041891.7BB		0.083		504.726	MCPA
13.318	1793134.1BB		0.060		5.073	Dichlorprop
14.019	2298606.7BV		0.074		5.192	2,4-D
15.824	1150885.4BB		0.073		0.557	2,4,5-TP (Silvex)
16.716	1048260.8BB		0.076		0.554	2,4,5-T
17.667	1445362.6BB		0.072		5.351	2,4-DB
18.140	3672675.7BB		0.066		2.703	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\071213\07121302.D)
1.526
3.228
3.278 - Dalapon
3.943
4.532
5.066
11.488 - 2,4-Dichlorophenylacetic acid
11.845 - Dicamba
12.183 - MCPP
12.704 - MCPA
13.318 - Dichlorprop
14.019 - 2,4-D
15.824 - 2,4,5-TP (Silvex)
16.716 - 2,4,5-T
17.667 - 2,4-DB
18.140 - Dinoseb
min

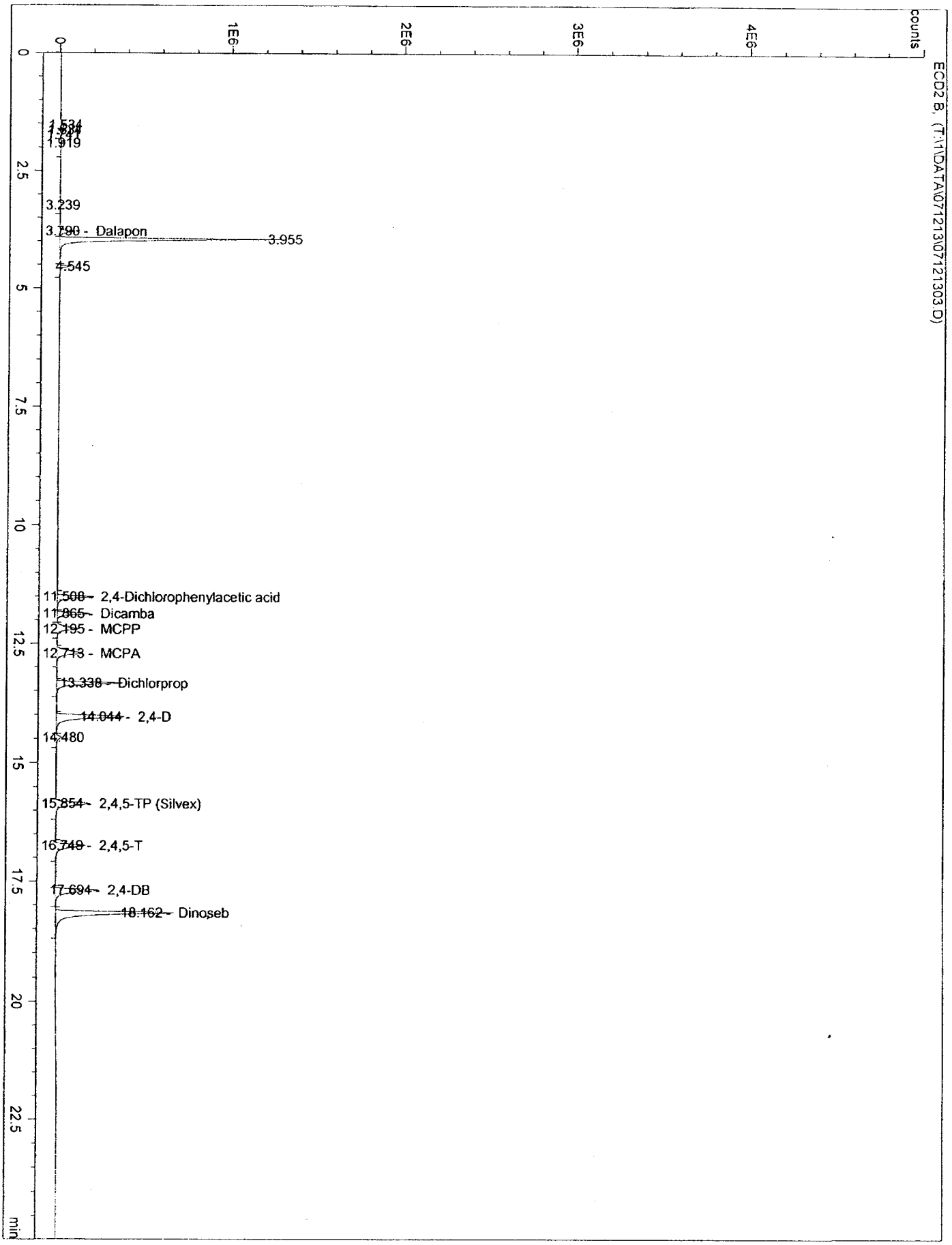
External Standard Report

Data File Name : T:\1\DATA\071213\07121303.D
Operator :
Instrument : GC 0
Sample Name : 0.6PPM
Run Time Bar Code:
Acquired on : 12/13/2007 11:57 am
Report Created on: 13 Dec 07 03:58 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R0917.M

Page Number :
Vial Number : Vial 3
Injection Number : 1
Sequence Line : 3
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD2 B, T:\1\DATA\071213\07121303.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
3.790	343800.9PV		0.044		9.749	Dalapon
11.508	860592.3BB		0.059		2.227	2,4-Dichlorophenylacetic acid
11.865	654749.6BV		0.054		0.456	Dicamba
12.195	634836.8PB		0.078		451.021	MCPP
12.713	904072.9BB		0.084		437.962	MCPA
13.338	1561278.0BB		0.061		4.417	Dichlorprop
14.044	2010091.0BV		0.076		4.540	2,4-D
15.854	993191.9BB		0.076		0.481	2,4,5-TP (Silvex)
16.749	908410.6BB		0.079		0.480	2,4,5-T
17.694	1263665.2BB		0.075		4.678	2,4-DB
18.162	3218585.5BB		0.068		2.368	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\071213\071213 03.D)
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
min
1.534
1.919
3.239
3.790 - Dalapon
3.955
4.545
11.508 - 2,4-Dichlorophenylacetic acid
11.865 - Dicamba
12.195 - MCPP
12.713 - MCPA
13.338 - Dichlorprop
14.044 - 2,4-D
14.480
15.854 - 2,4,5-TP (Silvex)
16.749 - 2,4,5-T
17.694 - 2,4-DB
18.162 - Dinoseb

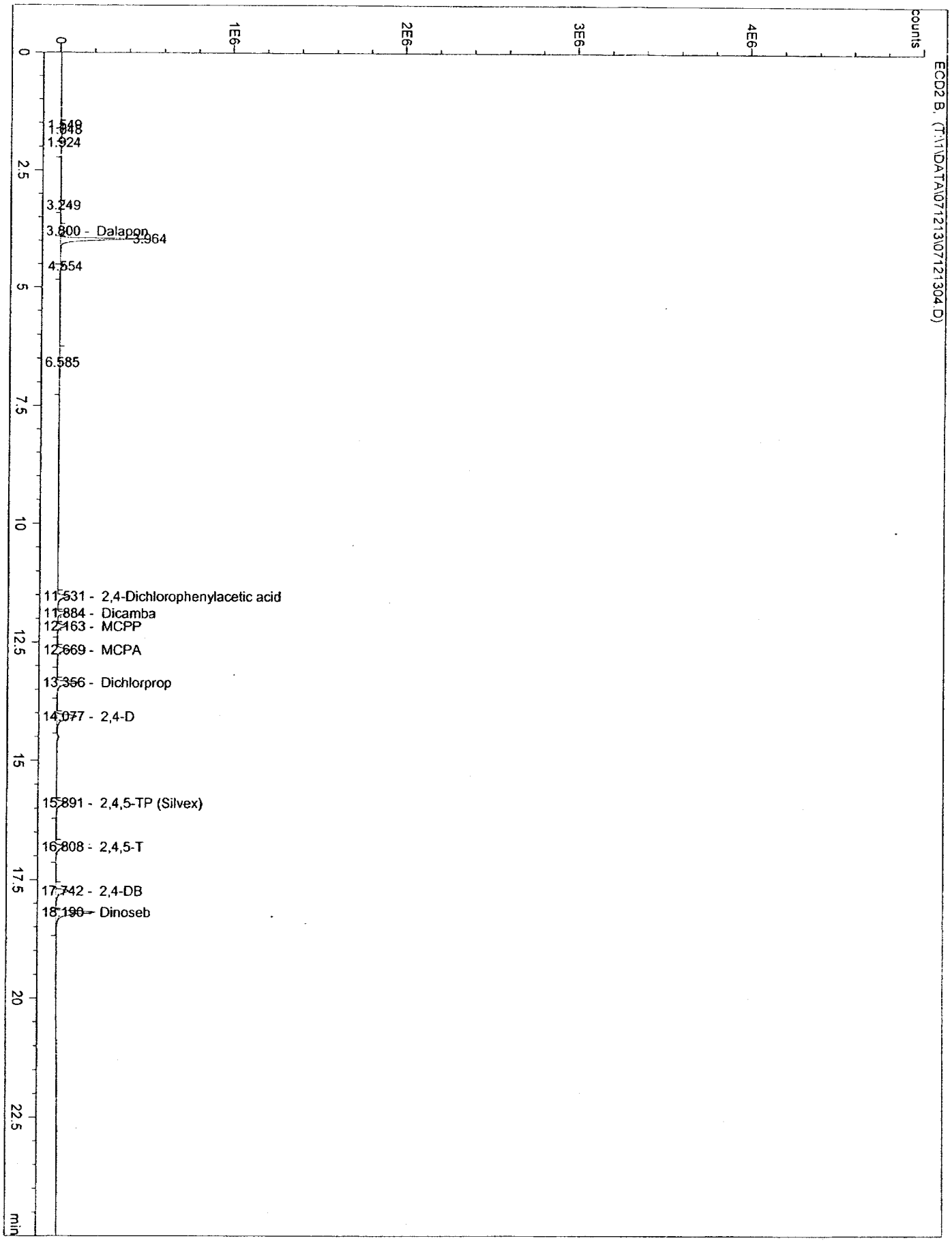
External Standard Report

Data File Name : T:\1\DATA\071213\07121304.D
Operator :
Instrument : GC 0
Sample Name : 0.2PPM
Run Time Bar Code:
Acquired on : 12/13/2007 00:31 pm
Report Created on: 13 Dec 07 04:01 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R0917.M

Page Number :
Vial Number : Vial 4
Injection Number : 1
Sequence Line : 4
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD2 B, T:\1\DATA\071213\07121304.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
3.800	115410.3BV		0.048		3.273	Dalapon
11.531	320512.3BV		0.067		0.830	2,4-Dichlorophenylacetic acid
11.884	222523.4VV		0.060		0.155	Dicamba
12.163	228259.1VB		0.070		162.167	MCPP
12.669	339060.4BB		0.157		164.252	MCPA
13.356	578185.7BB		0.069		1.636	Dichlorprop
14.077	734069.8BV		0.095		1.658	2,4-D
15.891	316307.8BB		0.094		0.153	2,4,5-TP (Silvex)
16.808	295792.4BB		0.089		0.156	2,4,5-T
17.742	449456.7BV		0.093		1.664	2,4-DB
18.190	1165677.6VB		0.088		0.858	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\071213\07121304.D)
1.549
1.648
1.924
3.249
3.800 - Dalapon
3.964
4.554
6.585
11.531 - 2,4-Dichlorophenylacetic acid
11.884 - Dicamba
12.163 - MCPP
12.669 - MCPA
13.356 - Dichlorprop
14.077 - 2,4-D
15.891 - 2,4,5-TP (Silvex)
16.808 - 2,4,5-T
17.742 - 2,4-DB
18.190 - Dinoseb
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
min

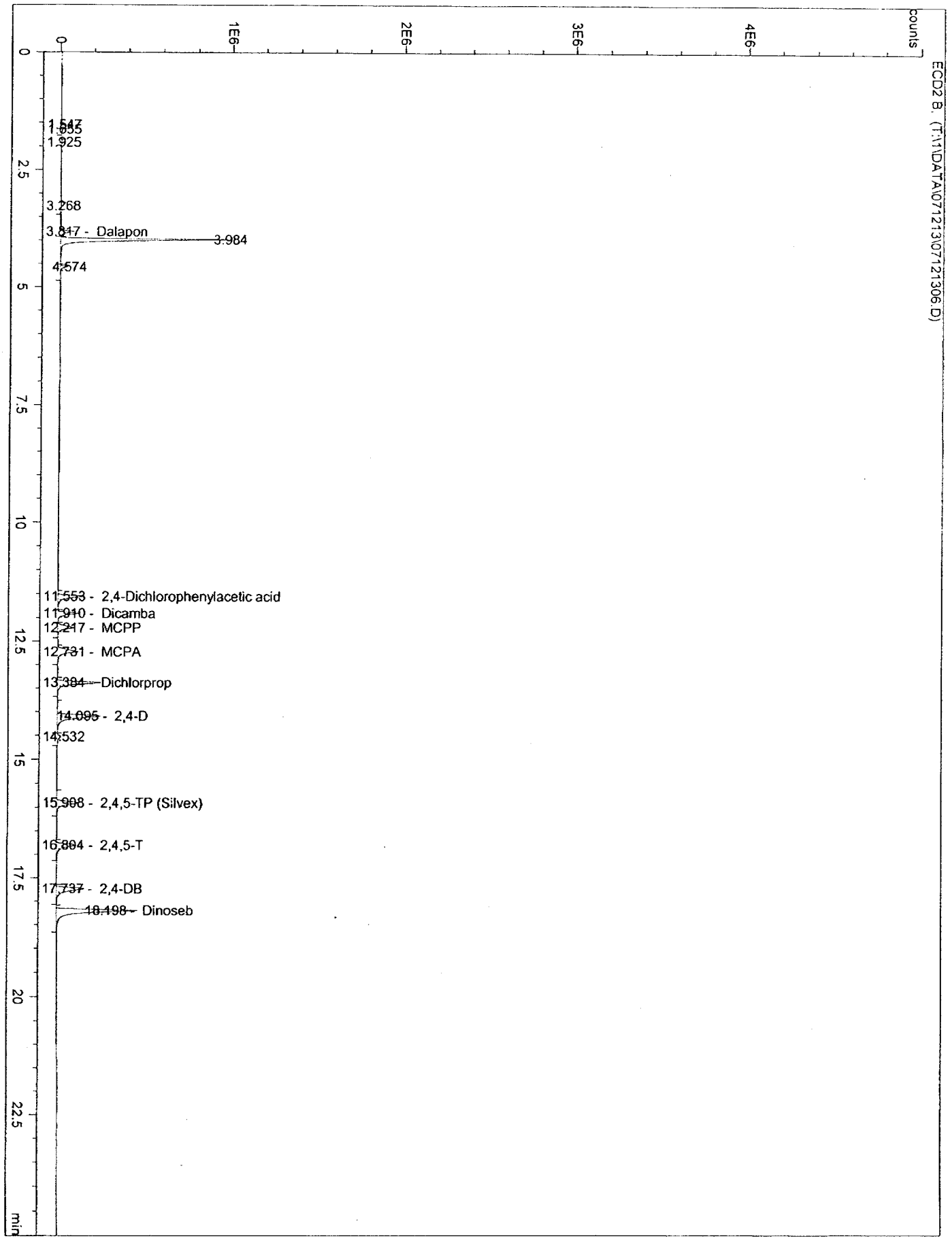
External Standard Report

Data File Name : T:\1\DATA\071213\07121306.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM ICV
Run Time Bar Code:
Acquired on : 12/13/2007 01:38 pm
Report Created on: 13 Dec 07 03:59 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R0917.M

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 6
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. [ECD2 B.] T:\1\DATA\071213\07121306.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
3.817	230396.4PV		0.042		6.533	Dalapon
11.553	594529.4BB		0.062		1.539	2,4-Dichlorophenylacetic acid
11.910	451188.6BB		0.055		0.314	Dicamba
12.217	424076.6BB		0.067		301.286	MCPP
12.731	636837.9BB		0.082		308.505	MCPA
13.384	1071531.9BB		0.063		3.031	Dichlorprop
14.095	1347052.5BB		0.080		3.042	2,4-D
15.908	651066.7BB		0.079		0.315	2,4,5-TP (Silvex)
16.804	609998.5BB		0.081		0.323	2,4,5-T
17.737	849412.5BB		0.077		3.144	2,4-DB
18.198	2177468.8BB		0.067		1.602	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\071213\07121306.D)
1.547
1.655
1.925
3.268
3.847 - Dalapon
3.984
4.574
11.553 - 2,4-Dichlorophenylacetic acid
11.910 - Dicamba
12.217 - MCPP
12.731 - MCPA
13.384 - Dichlorprop
14.095 - 2,4-D
14.532
15.908 - 2,4,5-TP (Silvex)
16.804 - 2,4,5-T
17.737 - 2,4-DB
18.198 - Dinoseb
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
min

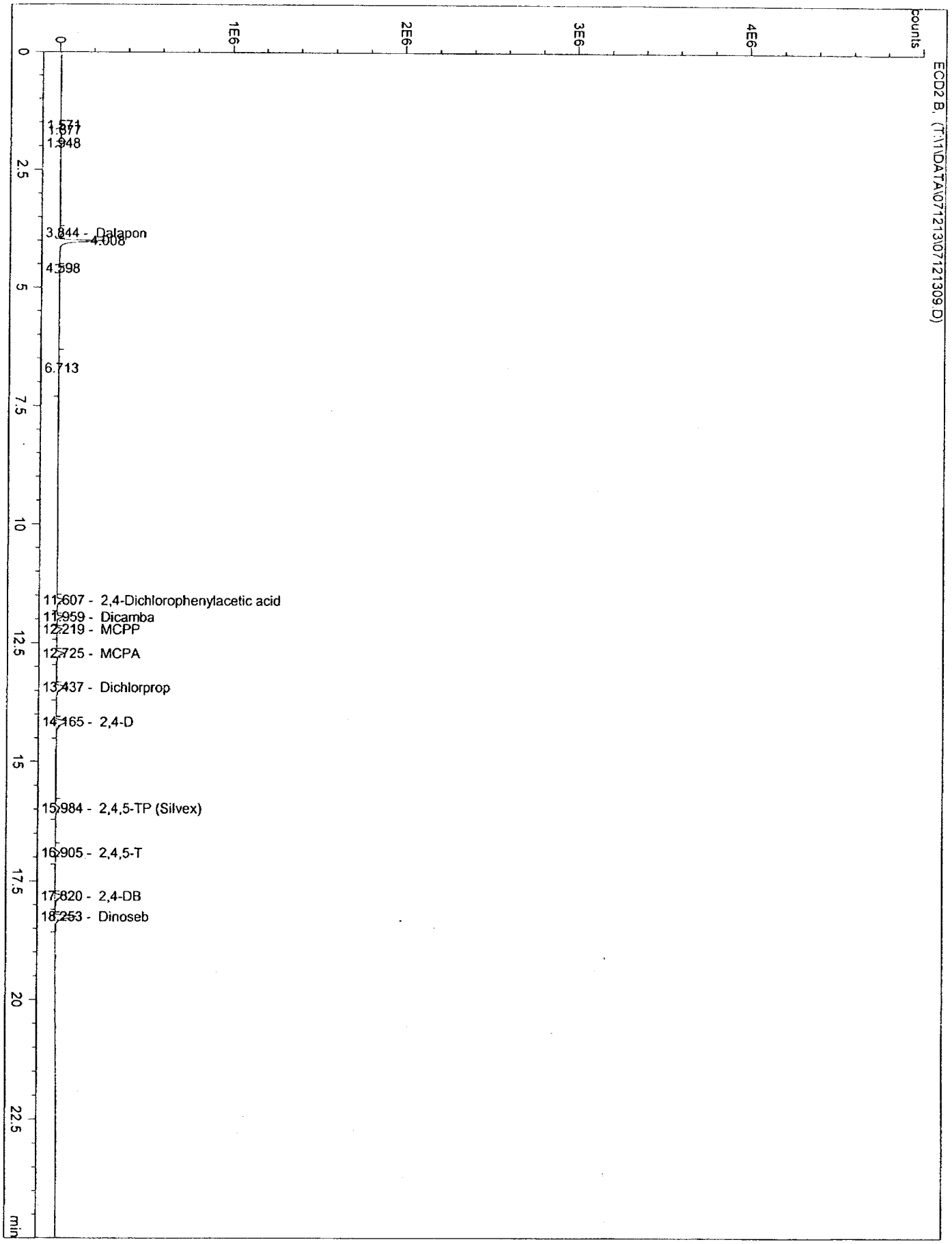
External Standard Report

Data File Name : T:\1\DATA\071213\07121309.D
Operator :
Instrument : GC 0
Sample Name : 0.1PPM
Run Time Bar Code:
Acquired on : 12/13/2007 03:18 pm
Report Created on: 13 Dec 07 03:59 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R0917.M

Page Number :
Vial Number : Vial 9
Injection Number : 1
Sequence Line : 9
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 13Dec07

Sig. ECD2 B, T:\1\DATA\071213\07121309.D

Ret Time	Area	Type	Width	Ref #	ppb	Name
3.844	57446.0	BV	0.041		1.629	Dalapon
11.607	172808.6	BB	0.078		0.447	2,4-Dichlorophenylacetic acid
11.959	111471.1	BV	0.095		0.078	Dicamba
12.219	124404.3	PB	0.066		88.383	MCPP
12.725	196522.8	BB	0.078		95.202	MCPA
13.437	317745.0	BB	0.072		0.899	Dichlorprop
14.165	407361.6	BB	0.106		0.920	2,4-D
15.984	145818.8	BB	0.102		0.071	2,4,5-TP (Silvex)
16.905	139549.1	BB	0.089		0.074	2,4,5-T
17.820	237362.5	BB	0.095		0.879	2,4-DB
18.253	620787.1	BB	0.076		0.457	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\071213\07121309.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.671
1.877
1.948
3.844 - Dalapon
4.008
4.598
6.713
11.607 - 2,4-Dichlorophenylacetic acid
11.959 - Dicamba
12.219 - MCPP
12.725 - MCPA
13.437 - Dichlorprop
14.165 - 2,4-D
15.984 - 2,4,5-TP (Silvex)
16.905 - 2,4,5-T
17.820 - 2,4-DB
18.253 - Dinoseb

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	0.4PPM CCV	8151	1	Sample		08011801
2	Vial 2	MB 080117L18	8151	1	Sample		08011802
3	Vial 3	LCS 080117L18	8151	1	Sample		08011803
4	Vial 6	01-1021-3 MSD	8151	1	Sample		08011806
5	Vial 7	01-1021-3	8151	1	Sample		08011807
6	Vial 8	01-0945-1	8151	1	Sample		08011808
7	Vial 9	01-0940-1	8151	1	Sample		08011809
8	Vial 10	01-1021-1	8151	1	Sample		08011810
9	Vial 11	01-1021-2	8151	1	Sample		08011811
10	Vial 12	01-1049-1	8151	1	Sample		08011812
11	Vial 13	01-1049-2	8151	1	Sample		08011813
12	Vial 14	01-1049-3	8151	1	Sample		08011814
13	Vial 15	01-1049-4	8151	1	Sample		08011815
14	Vial 16	01-1049-5	8151	1	Sample		08011816
15	Vial 17	01-1049-6	8151	1	Sample		08011817
16	Vial 18	01-1049-7	8151	1	Sample		08011818
17	Vial 19	01-1049-8	8151	1	Sample		08011819
18	Vial 20	01-1049-9	8151	1	Sample		08011820
19	Vial 21	01-1049-10	8151	1	Sample		08011821
20	Vial 1	0.4PPM CCV	8151	1	Sample		08011822
21	Vial 23	01-1049-11	8151	1	Sample		08011823
22	Vial 24	01-1049-12	8151	1	Sample		08011824
23	Vial 25	01-1049-13	8151	1	Sample		08011825
24	Vial 26	01-1049-14	8151	1	Sample		08011826
25	Vial 4	LCSD 080117L18	8151	1	Sample		08011804
26	Vial 5	01-1021-3 MS	8151	1	Sample		08011805
27	Vial 1	0.4PPM CCV	8151	1	Sample		08011827

Sequence Table (Back Injector):

No entries - empty table!

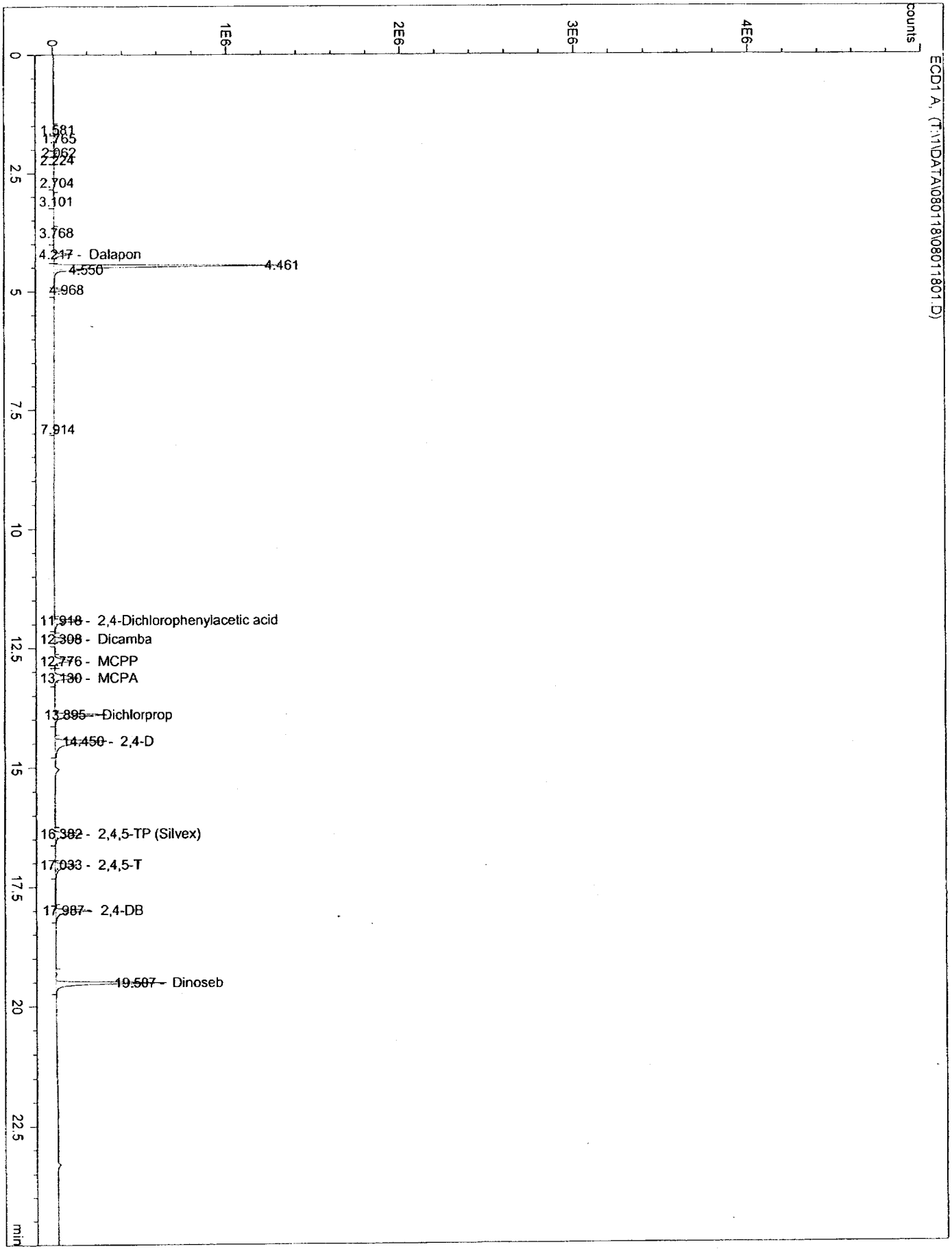
External Standard Report

Data File Name : T:\1\DATA\080118\08011801.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM CCV
Run Time Bar Code:
Acquired on : 1/18/2008 03:10 pm
Report Created on: 18 Jan 08 05:26 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F1218.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 3
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 04Jan08

Sig. ECD1 A, T:\1\DATA\080118\08011801.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
4.217	337286.8	PV	0.045		9.589	Dalapon
11.918	641358.6	BB	0.058		1.968	2,4-Dichlorophenylacetic acid
12.308	504519.5	BB	0.050		0.403	Dicamba
12.776	456133.7	BB	0.062		399.764	MCPP
13.130	642929.4	BB	0.066		394.027	MCPA
13.895	1167087.0	BB	0.059		3.951	Dichlorprop
14.450	1539961.4	BB	0.076		4.014	2,4-D
16.382	775189.8	BB	0.072		0.420	2,4,5-TP (Silvex)
17.033	705709.6	BB	0.082		0.426	2,4,5-T
17.987	877294.9	BB	0.063		4.152	2,4-DB
19.507	1997756.2	BB	0.047		1.825	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\080118\08011801.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.581
1.765
2.062
2.224
2.704
3.101
3.768
4.217 - Dalapon
4.461
4.550
4.968
7.914
11.918 - 2,4-Dichlorophenylacetic acid
12.308 - Dicamba
12.776 - MCPP
13.130 - MCPA
13.895 - Dichlorprop
14.450 - 2,4-D
16.382 - 2,4,5-TP (Silvex)
17.033 - 2,4,5-T
17.987 - 2,4-DB
19.507 - Dinoseb

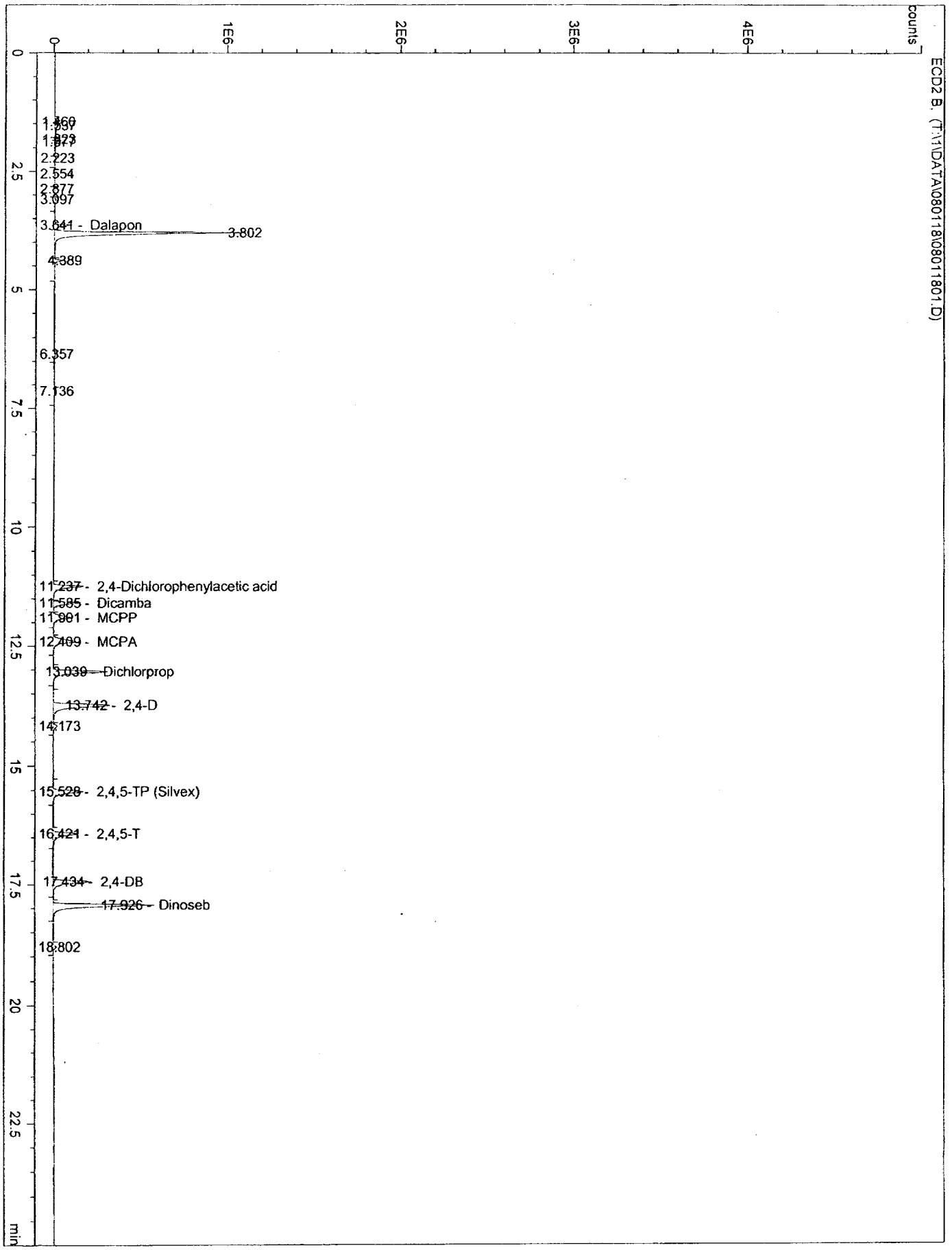
External Standard Report

Data File Name : T:\1\DATA\080118\08011801.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM CCV
Run Time Bar Code:
Acquired on : 1/18/2008 03:10 pm
Report Created on: 18 Jan 08 05:28 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R1218.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 3
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Dec07

Sig. ECD2 B, T:\1\DATA\080118\08011801.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
3.641	294754.4	BV	0.051		9.290	Dalapon
11.237	700640.0	BB	0.059		1.943	2,4-Dichlorophenylacetic acid
11.585	528089.4	BB	0.053		0.403	Dicamba
11.901	518690.0	BB	0.068		392.209	MCPP
12.409	751486.1	BB	0.080		384.174	MCPA
13.039	1308916.0	BB	0.062		3.949	Dichlorprop
13.742	1644667.6	BV	0.075		3.974	2,4-D
15.528	820691.0	BB	0.071		0.418	2,4,5-TP (Silvex)
16.421	728777.1	BB	0.079		0.413	2,4,5-T
17.434	1021020.9	BB	0.069		4.042	2,4-DB
17.926	2352137.2	BB	0.060		1.818	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\080118\080118D1 801.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.360
2.223
2.554
2.877
3.097
3.641 - Dalapon
3.802
4.389
6.357
7.136
11.237 - 2,4-Dichlorophenylacetic acid
11.585 - Dicamba
11.901 - MCPP
12.409 - MCPA
13.039 - Dichlorprop
13.742 - 2,4-D
14.173
15.528 - 2,4,5-TP (Silvex)
16.421 - 2,4,5-T
17.434 - 2,4-DB
17.926 - Dinoseb
18.802

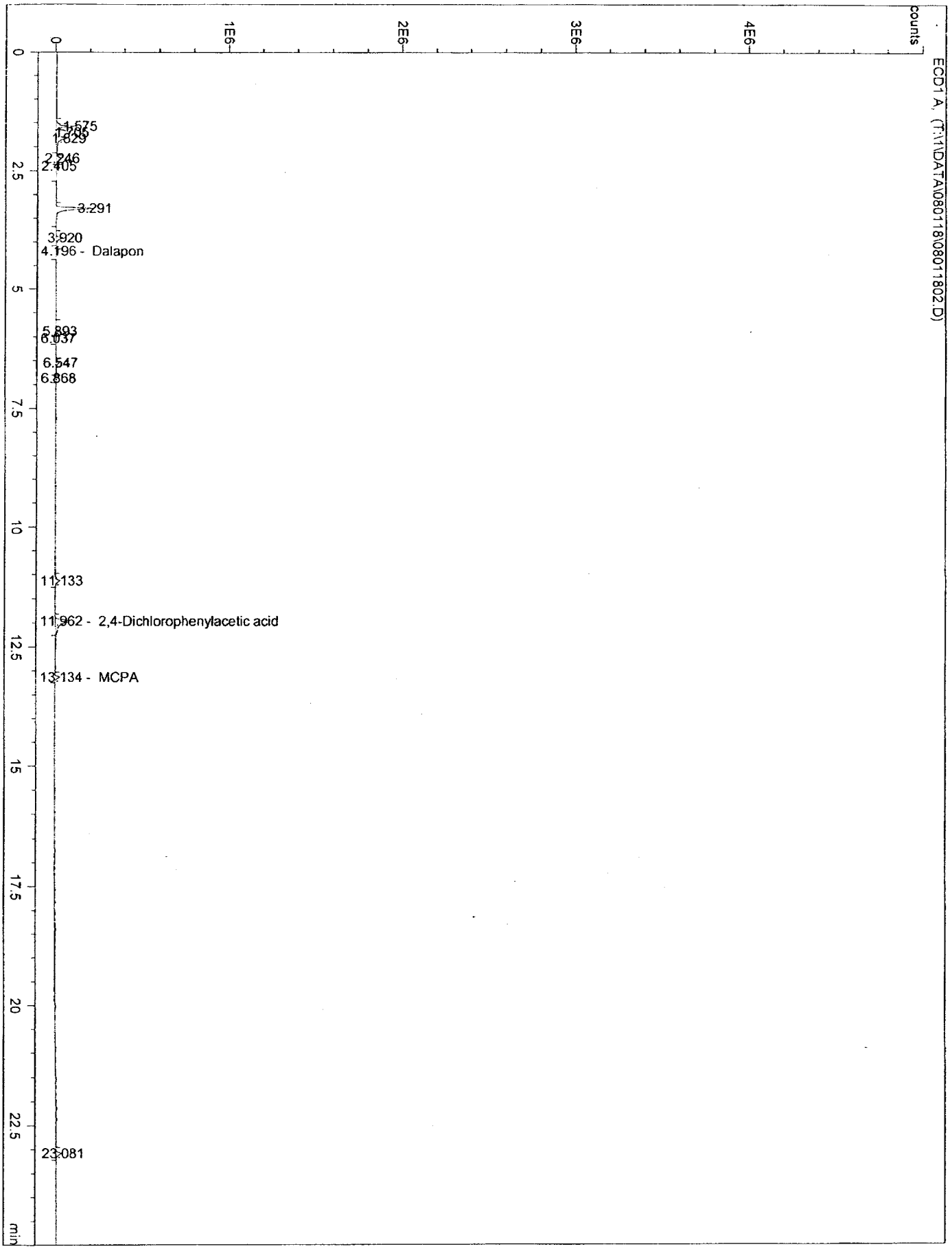
External Standard Report

Data File Name : T:\1\DATA\080118\08011802.D
Operator :
Instrument : GC 0
Sample Name : MB 080117L18
Run Time Bar Code:
Acquired on : 1/18/2008 03:44 pm
Report Created on: 18 Jan 08 05:27 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F1218.M

Page Number :
Vial Number : Vial 2
Injection Number : 1
Sequence Line : 4
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Jan08

Sig. ECD1 A, T:\1\DATA\080118\08011802.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
4.196	10917.3	VB	0.090		0.310	Dalapon
11.962	527933.1	BB	0.100		1.620	2,4-Dichlorophenylacetic acid
0.000	0.0		0.000		0.000	Dicamba
0.000	0.0		0.000		0.000	MCPP
13.134	94421.1	BB	0.051		57.867	MCPA
0.000	0.0		0.000		0.000	Dichlorprop
0.000	0.0		0.000		0.000	2,4-D
0.000	0.0		0.000		0.000	2,4,5-TP (Silvex)
0.000	0.0		0.000		0.000	2,4,5-T
0.000	0.0		0.000		0.000	2,4-DB
0.000	0.0		0.000		0.000	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\080118\08011802.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.575
1.829
2.246
2.405
3.291
3.920
4.196 - Dalapon
5.893
6.037
6.547
6.868
11.133
11.962 - 2,4-Dichlorophenylacetic acid
13.134 - MCPA
23.081

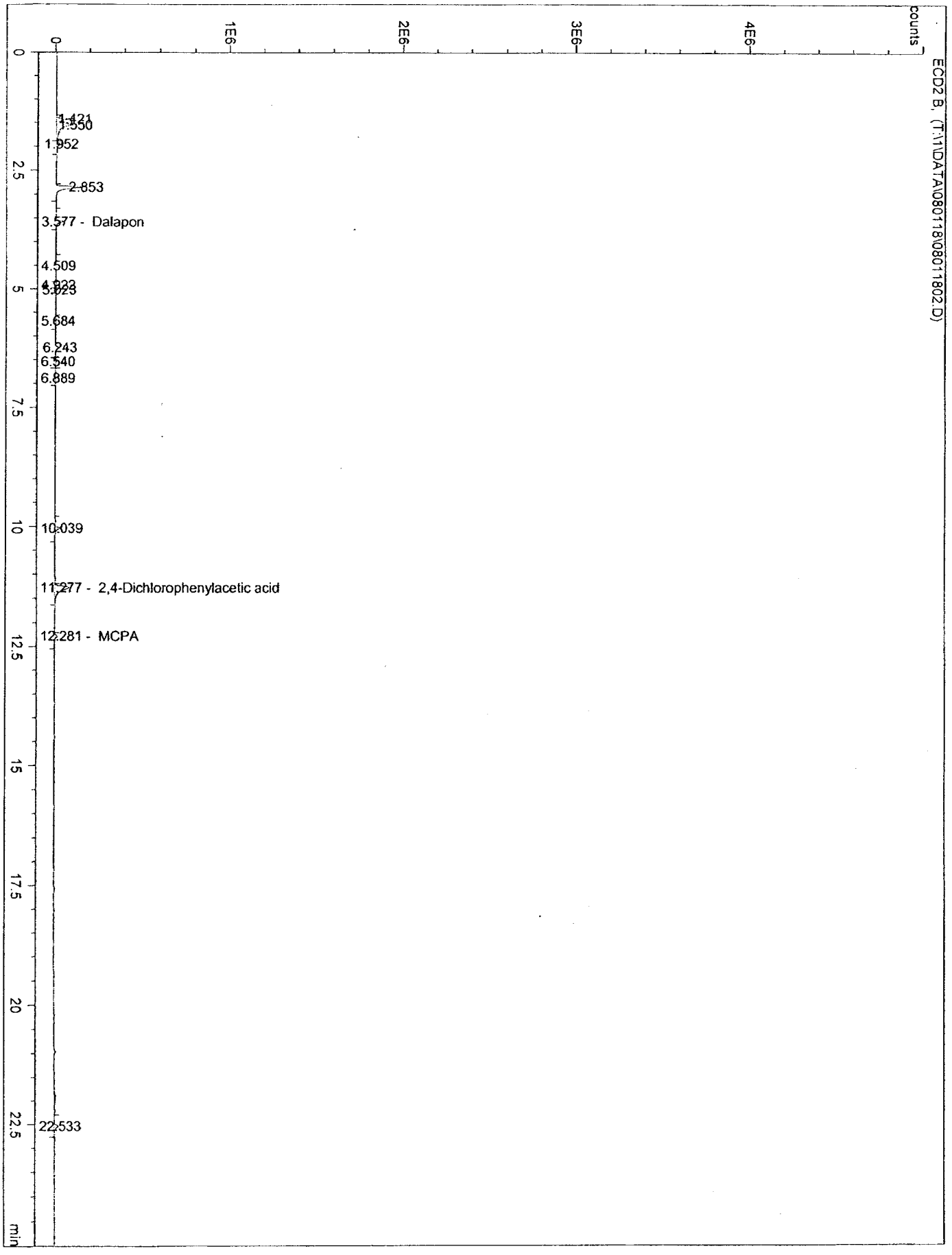
External Standard Report

Data File Name : T:\1\DATA\080118\08011802.D
Operator :
Instrument : GC 0
Sample Name : MB 080117L18
Run Time Bar Code:
Acquired on : 1/18/2008 03:44 pm
Report Created on: 18 Jan 08 05:28 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R1218.M

Page Number :
Vial Number : Vial 2
Injection Number : 1
Sequence Line : 4
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Dec07

Sig. ECD2 B, T:\1\DATA\080118\08011802.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
3.577	117499.4	PV	0.045		~~3.703~~	Dalapon
11.277	563880.1	VB	0.099		1.564	2,4-Dichlorophenylacetic acid
0.000	0.0		0.000		0.000	Dicamba
0.000	0.0		0.000		0.000	MCPP
12.281	63953.6	BB	0.107		~~32.694~~	MCPA
0.000	0.0		0.000		0.000	Dichlorprop
0.000	0.0		0.000		0.000	2,4-D
0.000	0.0		0.000		0.000	2,4,5-TP (Silvex)
0.000	0.0		0.000		0.000	2,4,5-T
0.000	0.0		0.000		0.000	2,4-DB
0.000	0.0		0.000		0.000	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\080118\08011802.D)
1.421
1.550
1.952
2.853
3.577 - Dalapon
4.509
4.923
5.023
5.684
6.243
6.540
6.889
10.039
11.277 - 2,4-Dichlorophenylacetic acid
12.281 - MCPA
22.533
min

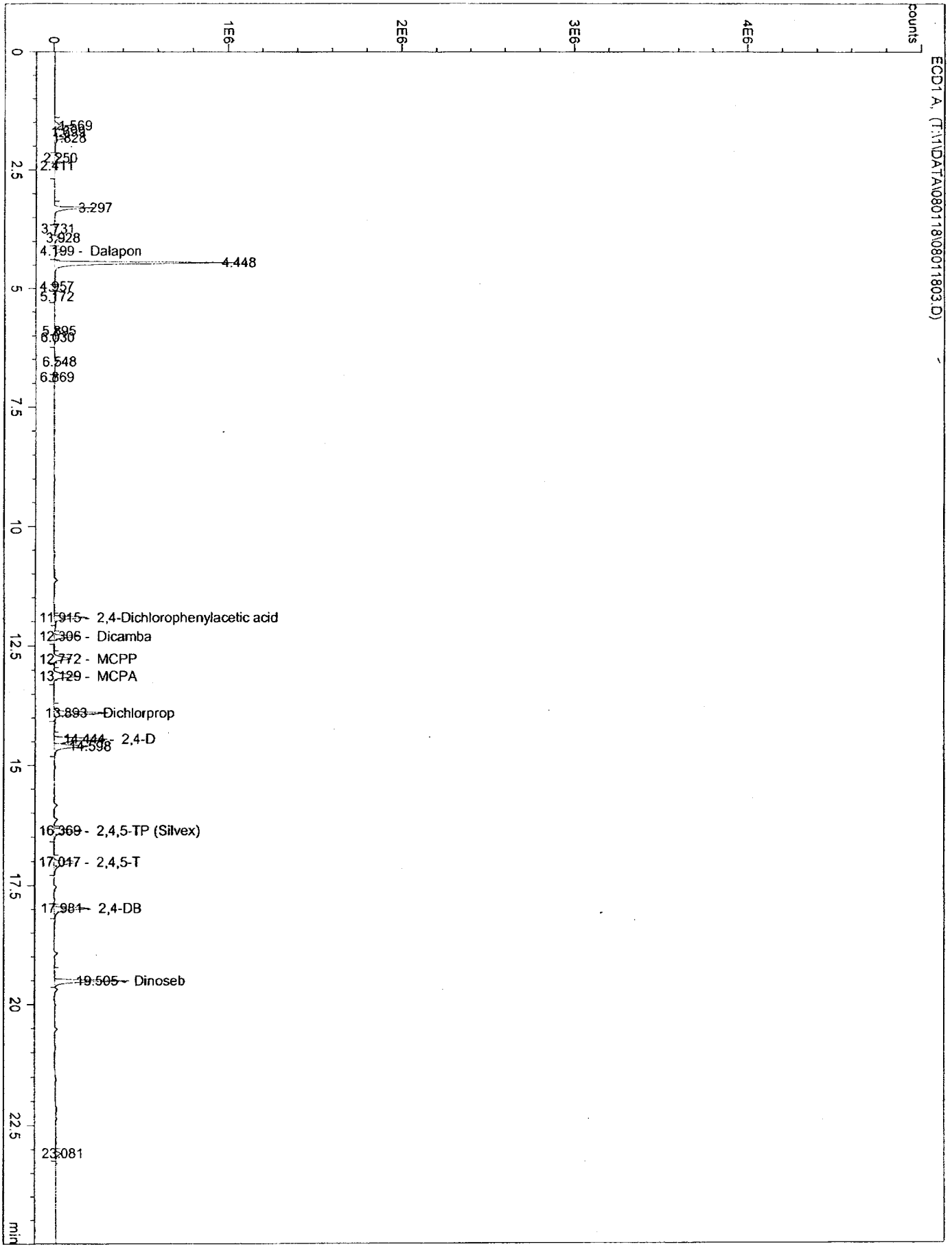
External Standard Report

Data File Name : T:\1\DATA\080118\08011803.D
Operator :
Instrument : GC 0
Sample Name : LCS 080117L18
Run Time Bar Code:
Acquired on : 1/18/2008 04:17 pm
Report Created on: 18 Jan 08 05:27 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F1218.M

Page Number :
Vial Number : Vial 3
Injection Number : 1
Sequence Line : 5
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Jan08

Sig. ECD1 A, T:\1\DATA\080118\08011803.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
4.199	198914.7	VV	0.049		5.655	Dalapon
11.915	660351.4	BB	0.053		2.026	2,4-Dichlorophenylacetic acid
12.306	487463.8	BB	0.049		0.390	Dicamba
12.772	415679.4	BB	0.062		364.309	MCPP
13.129	698488.3	BB	0.068		428.077	MCPA
13.893	1156321.7	BB	0.056		3.914	Dichlorprop
14.444	1323213.1	BV	0.065		3.449	2,4-D
16.369	720703.5	BB	0.066		0.391	2,4,5-TP (Silvex)
17.017	739562.1	BB	0.075		0.447	2,4,5-T
17.981	826273.9	BB	0.060		3.911	2,4-DB
19.505	1301120.3	BV	0.046		1.189	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\080118\080118\080118

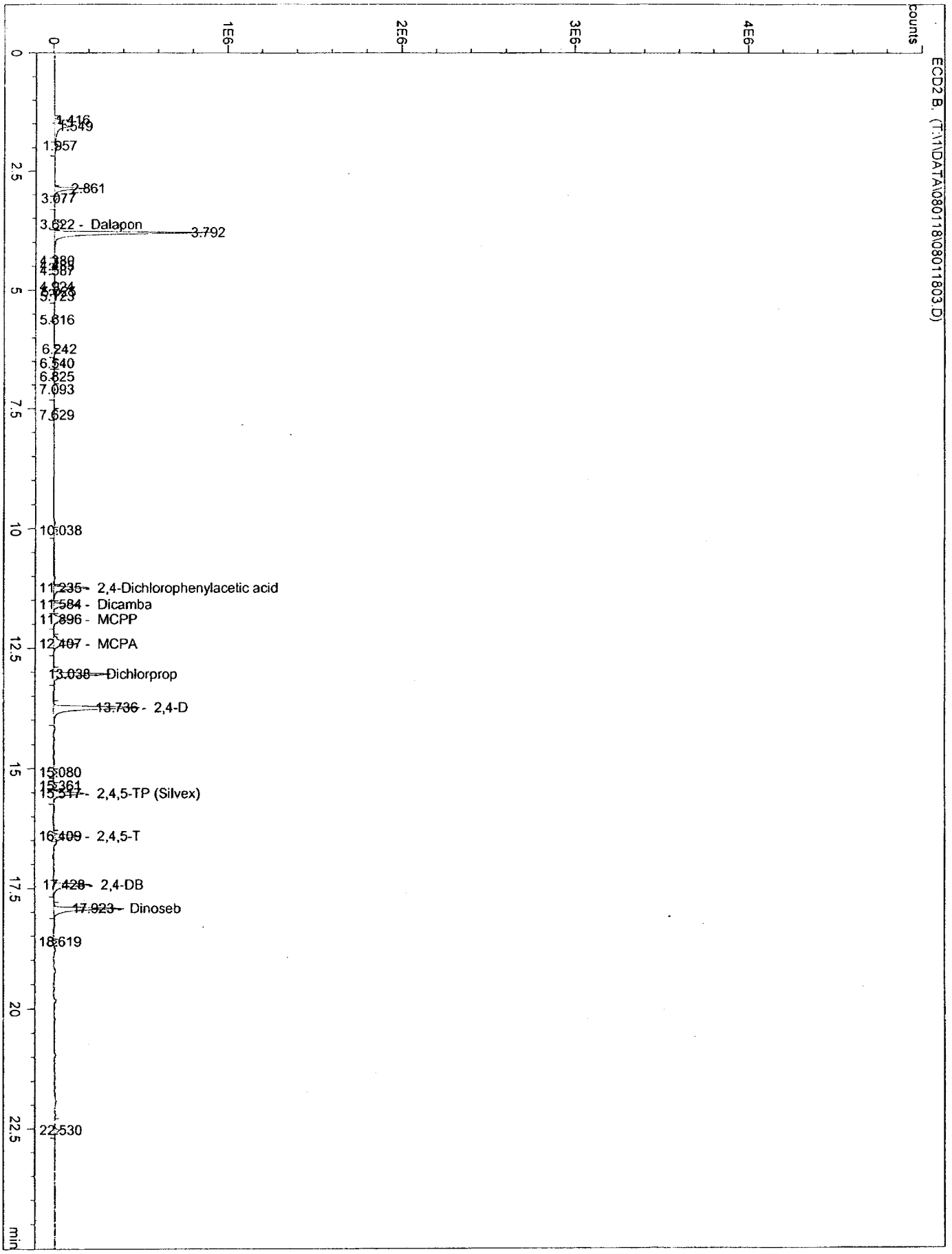
External Standard Report

Data File Name : T:\1\DATA\080118\08011803.D
Operator :
Instrument : GC 0
Sample Name : LCS 080117L18
Run Time Bar Code:
Acquired on : 1/18/2008 04:17 pm
Report Created on: 18 Jan 08 05:28 pm
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R1218.M

Page Number :
Vial Number : Vial 3
Injection Number : 1
Sequence Line : 5
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Dec07

Sig. ECD2 B. T:\1\DATA\080118\08011803.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
3.622	266886.2	PV	0.061		8.412	Dalapon
11.235	784738.2	BB	0.057		2.176	2,4-Dichlorophenylacetic acid
11.584	510652.4	BV	0.052		0.390	Dicamba
11.896	482361.1	PB	0.069		364.739	MCPP
12.407	783494.7	BB	0.080		400.537	MCPA
13.038	1322435.5	BV	0.060		3.990	Dichlorprop
13.736	2239516.3	BV	0.067		5.412	2,4-D
15.517	771004.3	VV	0.067		0.392	2,4,5-TP (Silvex)
16.409	635665.1	BV	0.067		0.361	2,4,5-T
17.428	969581.6	BB	0.066		3.838	2,4-DB
17.923	1559252.7	BV	0.057		1.205	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\080118\08011803.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.416
1.549
1.957
2.861
3.077
3.622 - Dalapon
3.792
4.389
4.587
4.924
5.123
5.616
6.242
6.540
6.825
7.093
7.629
10.038
11.235 - 2,4-Dichlorophenylacetic acid
11.584 - Dicamba
11.896 - MCPP
12.407 - MCPA
13.038 - Dichlorprop
13.736 - 2,4-D
15.080
15.361
15.517 - 2,4,5-TP (Silvex)
16.409 - 2,4,5-T
17.428 - 2,4-DB
17.923 - Dinoseb
18.619
22.530

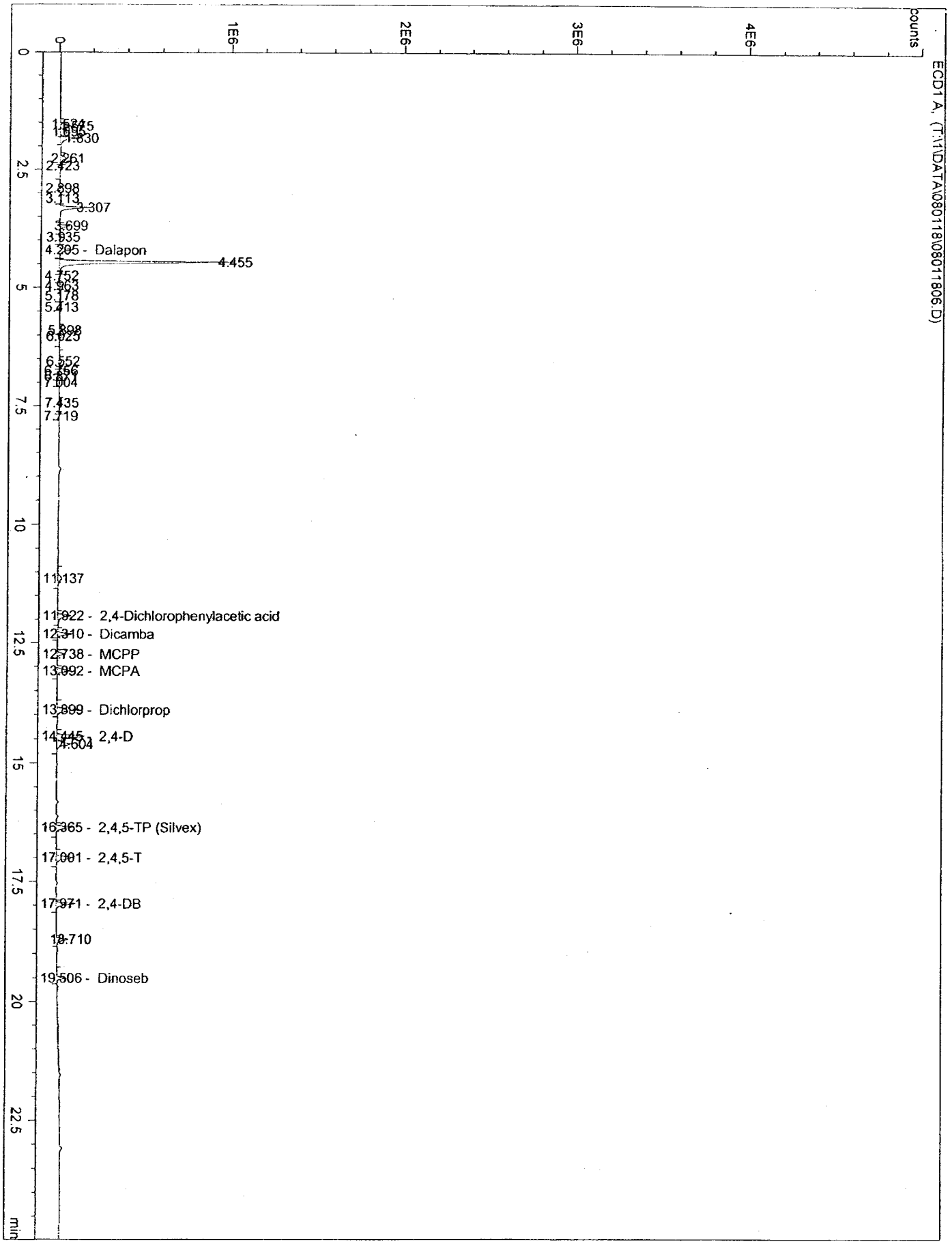
External Standard Report

Data File Name : T:\1\DATA\080118\08011806.D
Operator :
Instrument : GC 0
Sample Name : 01-1021-3 MSD
Run Time Bar Code:
Acquired on : 1/18/2008 06:00 pm
Report Created on: 21 Jan 08 09:26 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F1218.M

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 8
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 04Jan08

Sig. ECD1 A, T:\1\DATA\080118\08011806.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
4.205	254376.1	VV	0.048		7.232	Dalapon
11.922	312568.5	BB	0.059		0.959	2,4-Dichlorophenylacetic acid
12.310	273400.1	BB	0.048		0.219	Dicamba
12.738	140753.9	BB	0.051		123.359	MCPP
13.092	294957.0	BB	0.057		180.768	MCPA
13.899	497562.5	BV	0.058		1.684	Dichlorprop
14.445	697030.6	BV	0.064		1.817	2,4-D
16.365	344980.2	BB	0.058		0.187	2,4,5-TP (Silvex)
17.001	402240.7	BB	0.061		0.243	2,4,5-T
17.971	389095.0	BB	0.051		1.841	2,4-DB
19.506	149549.2	BB	0.044		0.137	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1DATA\080118\08011806.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
4.455
4.205 - Dalapon
11.137
11.922 - 2,4-Dichlorophenylacetic acid
12.310 - Dicamba
12.738 - MCPP
13.092 - MCPA
13.899 - Dichlorprop
14.604
16.365 - 2,4,5-TP (Silvex)
17.001 - 2,4,5-T
17.971 - 2,4-DB
18.710
19.506 - Dinoseb

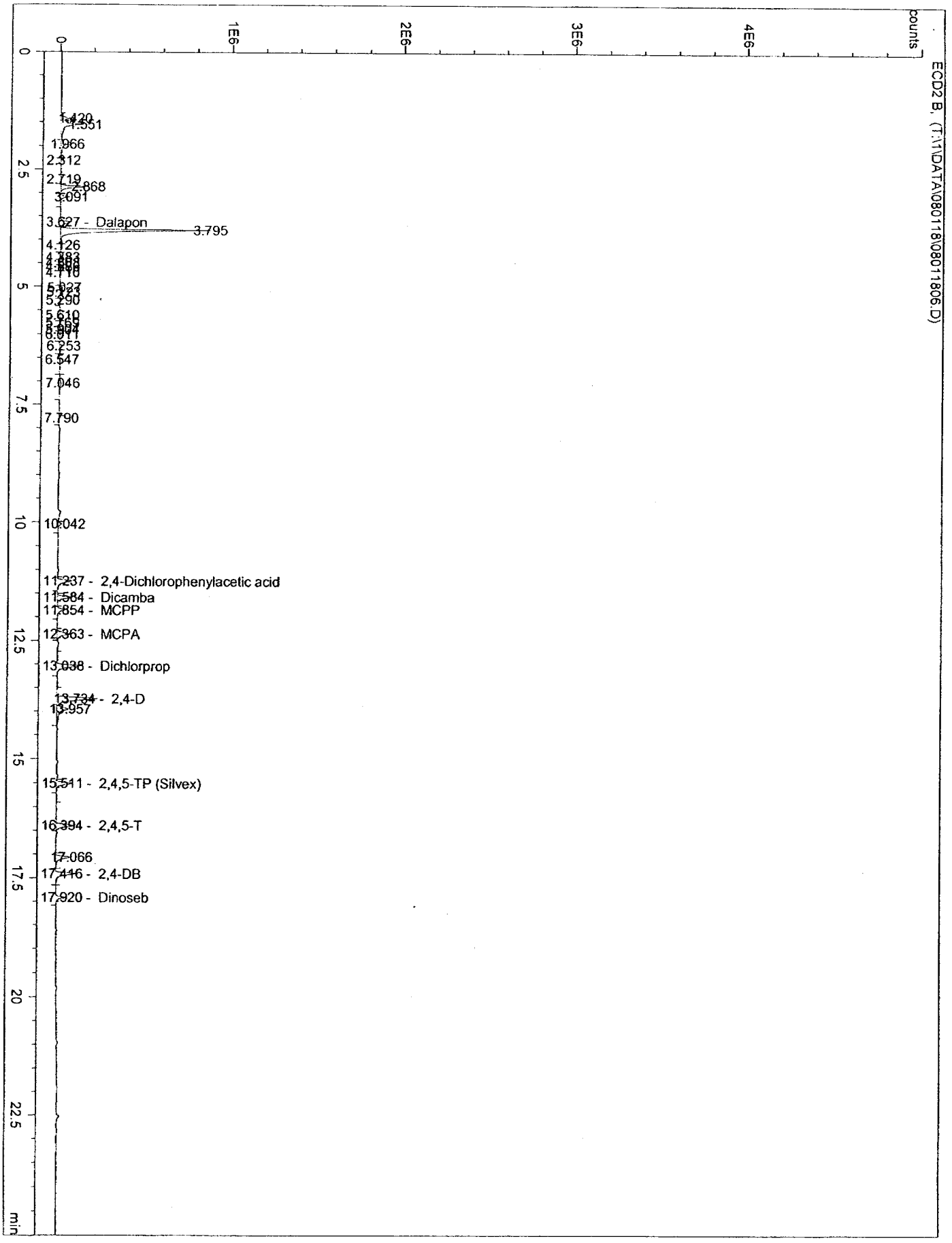
External Standard Report

Data File Name : T:\1\DATA\080118\08011806.D
Operator :
Instrument : GC 0
Sample Name : 01-1021-3 MSD
Run Time Bar Code:
Acquired on : 1/18/2008 06:00 pm
Report Created on: 21 Jan 08 10:08 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R1218.M

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 8
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Dec07

Sig. ECD2B, T:\1\DATA\080118\08011806.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
3.627	241701.8VV		0.060		7.618	Dalapon
11.237	333600.9BB		0.061		0.925	2,4-Dichlorophenylacetic acid
11.584	290261.4BV		0.053		0.222	Dicamba
11.854	166205.6PB		0.066		125.677	MCPP
12.363	320351.9BV		0.066		163.770	MCPA
13.038	559021.6BV		0.063		1.687	Dichlorprop
13.734	1030850.1BV		0.067		2.491	2,4-D
15.511	347423.0VB		0.061		0.177	2,4,5-TP (Silvex)
16.394	347305.5BV		0.060		0.197	2,4,5-T
17.416	445380.8BB		0.059		1.763	2,4-DB
17.920	172622.8BB		0.108		0.133	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\080118\08011806.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.420
1.551
1.966
2.312
2.719
2.868
3.091
3.627 - Dalapon
3.795
4.126
4.710
5.037
5.290
5.610
6.253
6.547
7.046
7.790
10.042
11.237 - 2,4-Dichlorophenylacetic acid
11.584 - Dicamba
11.854 - MCPP
12.363 - MCPA
13.038 - Dichlorprop
13.734 - 2,4-D
13.957
15.541 - 2,4,5-TP (Silvex)
16.394 - 2,4,5-T
17.066
17.446 - 2,4-DB
17.920 - Dinoseb

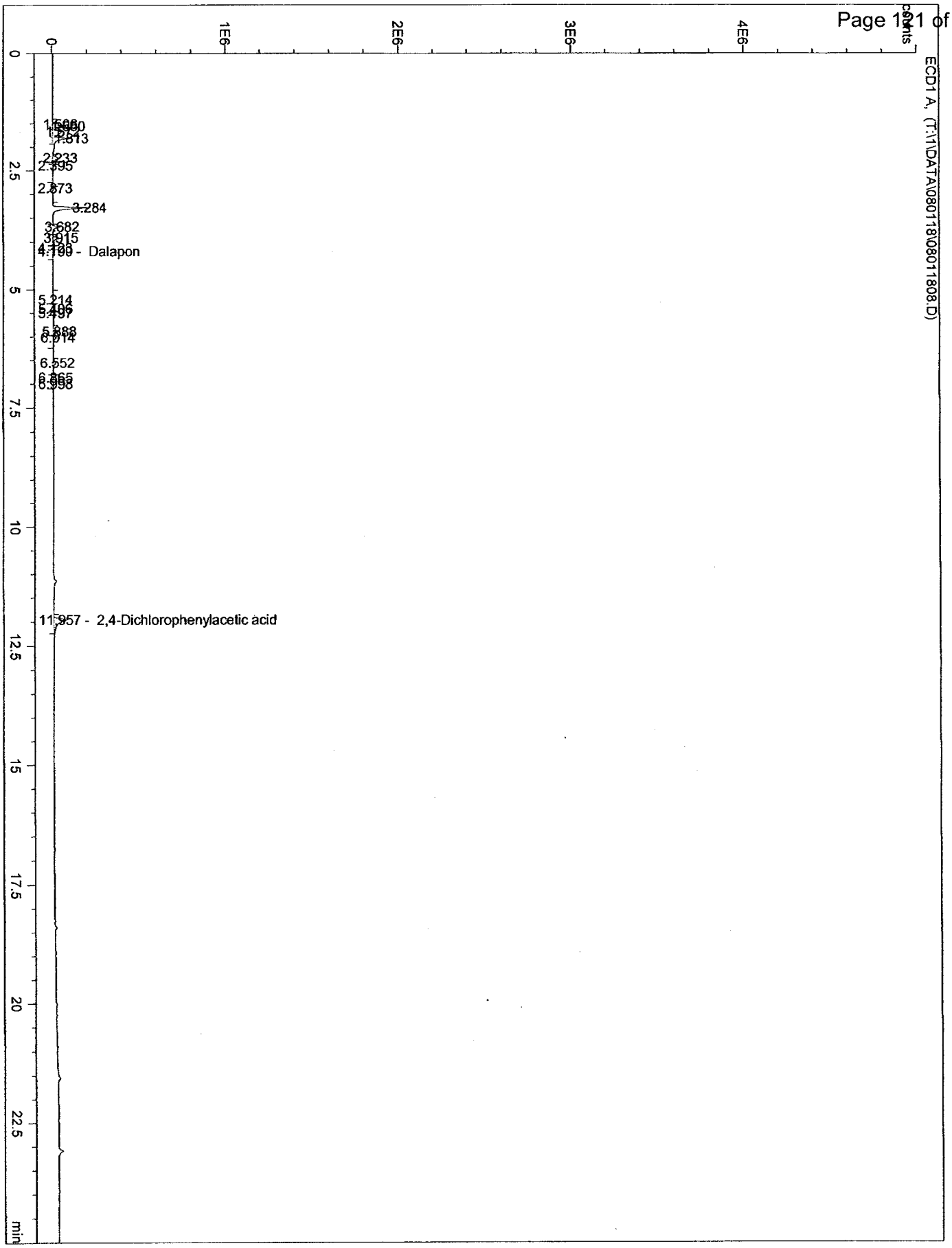
External Standard Report

Data File Name : T:\1\DATA\080118\08011808.D
Operator :
Instrument : GC 0
Sample Name : 01-0945-1
Run Time Bar Code:
Acquired on : 1/18/2008 07:07 pm
Report Created on: 21 Jan 08 09:27 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F1218.M

Page Number :
Vial Number : Vial 8
Injection Number : 1
Sequence Line : 10
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 04Jan08

Sig. ECD1 A, T:\1\DATA\080118\08011808.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
4.190	21265.9	VV	0.067		~~0.605~~	Dalapon
11.957	454404.2	BB	0.094		1.394	2,4-Dichlorophenylacetic acid
0.000	0.0		0.000		0.000	Dicamba
0.000	0.0		0.000		0.000	MCPP
0.000	0.0		0.000		0.000	MCPA
0.000	0.0		0.000		0.000	Dichlorprop
0.000	0.0		0.000		0.000	2,4-D
0.000	0.0		0.000		0.000	2,4,5-TP (Silvex)
0.000	0.0		0.000		0.000	2,4,5-T
0.000	0.0		0.000		0.000	2,4-DB
0.000	0.0		0.000		0.000	Dinoseb


ECD1 A, (T:\1\DATA\080118\08011808.D)
counts
0
1E6
2E6
3E6
4E6
min
2.5
5
7.5
10
12.5
15
17.5
20
22.5
3.284
4.199 - Dalapon
6.552
11.957 - 2,4-Dichlorophenylacetic acid

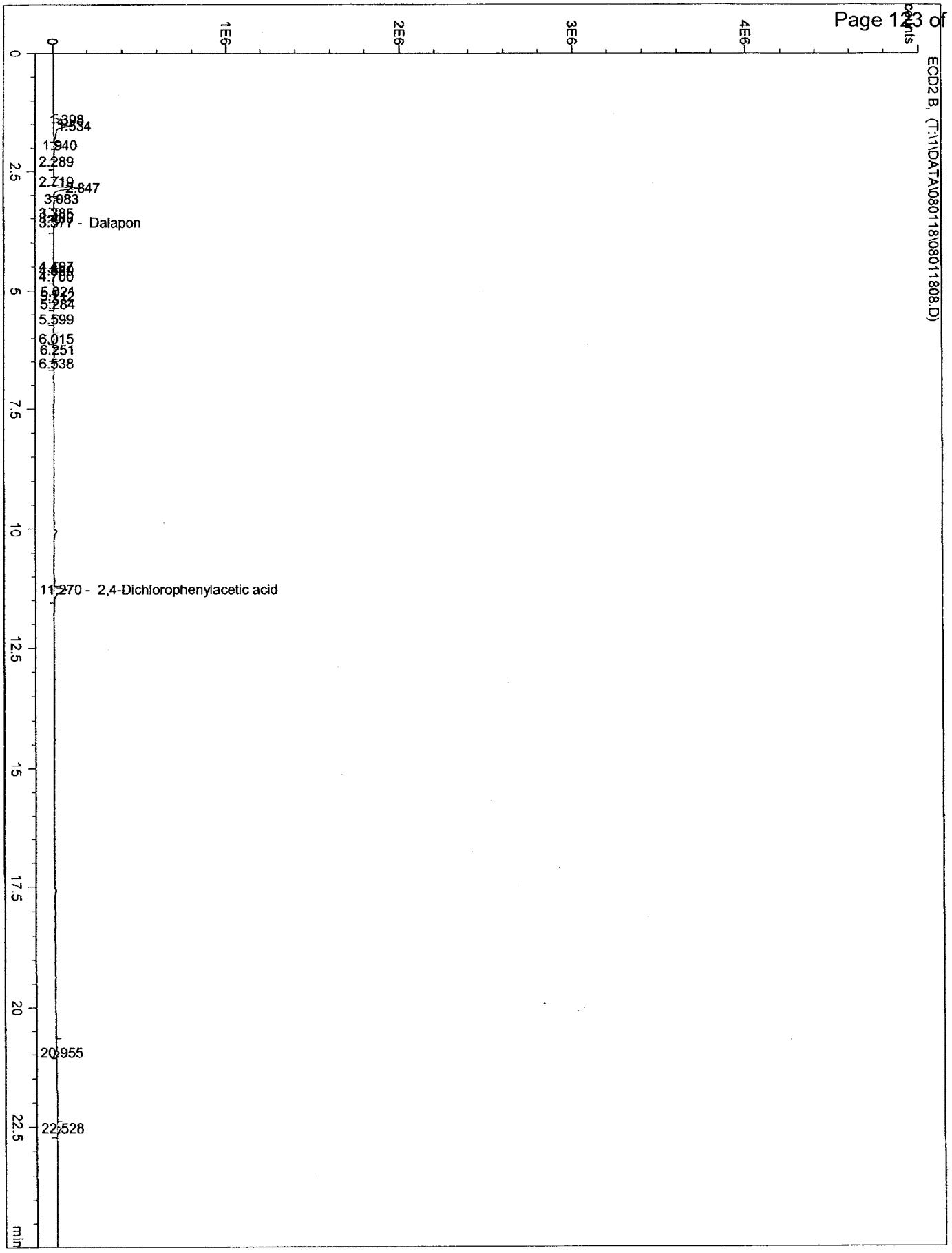
External Standard Report

Data File Name : T:\1\DATA\080118\08011808.D
Operator :
Instrument : GC 0
Sample Name : 01-0945-1
Run Time Bar Code:
Acquired on : 1/18/2008 07:07 pm
Report Created on: 21 Jan 08 10:08 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R1218.M

Page Number :
Vial Number : Vial 8
Injection Number : 1
Sequence Line : 10
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Dec07

Sig. ECD2 B, T:\1\DATA\080118\08011808.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
3.577	108884.7	VV	0.044		~~3.432~~	Dalapon
11.270	443700.0	PB	0.089		1.231	2,4-Dichlorophenylacetic acid
0.000	0.0		0.000		0.000	Dicamba
0.000	0.0		0.000		0.000	MCPP
0.000	0.0		0.000		0.000	MCPA
0.000	0.0		0.000		0.000	Dichlorprop
0.000	0.0		0.000		0.000	2,4-D
0.000	0.0		0.000		0.000	2,4,5-TP (Silvex)
0.000	0.0		0.000		0.000	2,4,5-T
0.000	0.0		0.000		0.000	2,4-DB
0.000	0.0		0.000		0.000	Dinoseb


counts
0
1E6
2E6
3E6
4E6
EOD2 B, (T:\1\DATA\080118\0801808.D)
1.398
1.534
1.940
2.289
2.719
2.847
3.083
3.377 - Dalapon
4.497
4.700
5.021
5.284
5.599
6.015
6.251
6.538
11.270 - 2,4-Dichlorophenylacetic acid
20.955
22.528
min

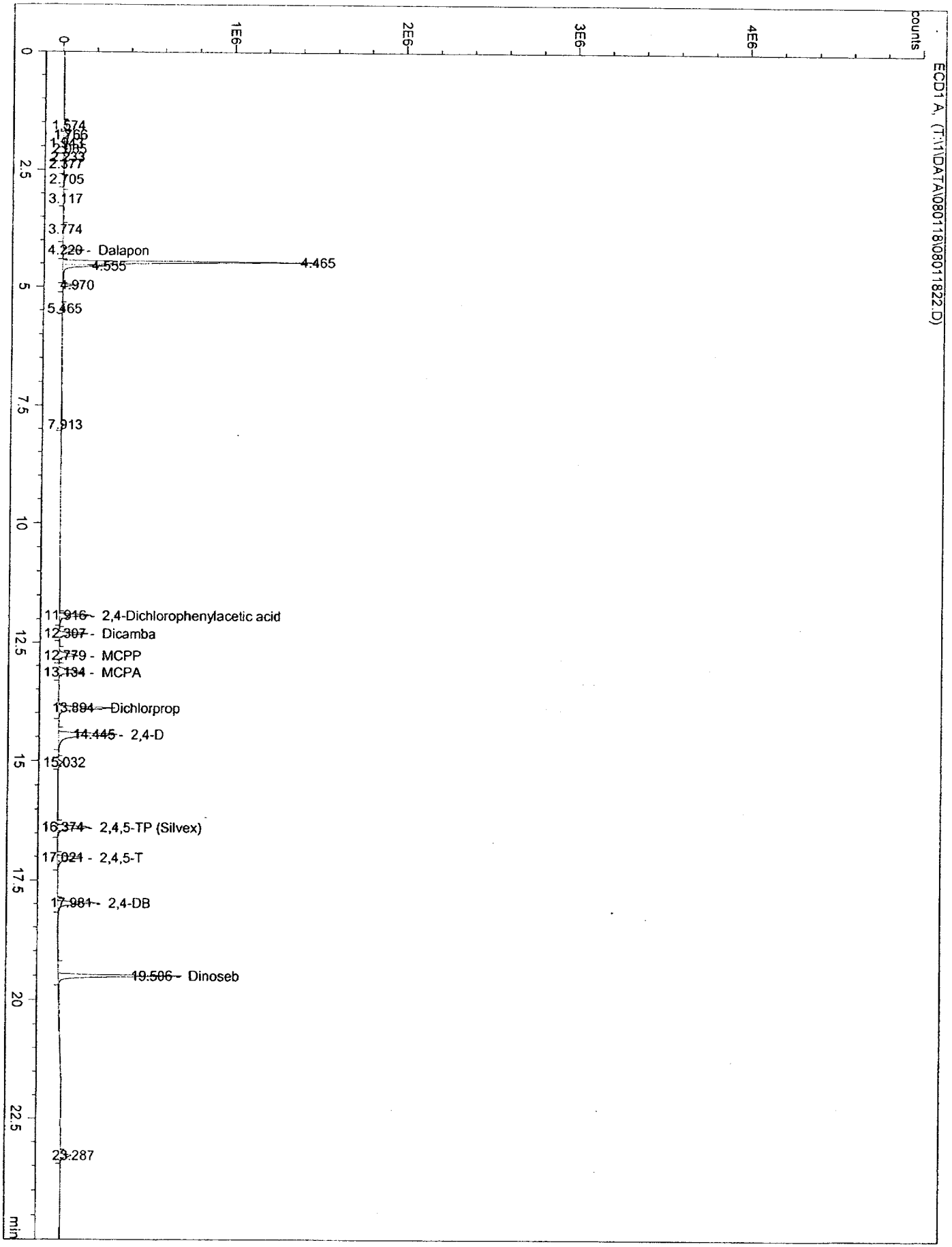
External Standard Report

Data File Name : T:\1\DATA\080118\08011822.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM CCV
Run Time Bar Code:
Acquired on : 1/19/2008 02:54 am
Report Created on: 21 Jan 08 09:30 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F1218.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 24
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 04Jan08

Sig. ECD1 A, T:\1\DATA\080118\08011822.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
4.220	369654.6	PV	0.043		10.510	Dalapon
11.916	680936.5	BB	0.056		2.089	2,4-Dichlorophenylacetic acid
12.307	538021.6	BB	0.049		0.430	Dicamba
12.779	482978.9	BB	0.064		423.292	MCPP
13.134	681019.0	BB	0.067		417.371	MCPA
13.894	1223932.5	BB	0.057		4.143	Dichlorprop
14.445	1633222.2	BB	0.071		4.258	2,4-D
16.374	813642.8	BB	0.067		0.441	2,4,5-TP (Silvex)
17.021	734850.2	BB	0.073		0.444	2,4,5-T
17.981	883739.4	BB	0.055		4.183	2,4-DB
19.506	2106361.3	BB	0.044		1.924	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\080118\08011822.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.574
2.377
2.705
3.117
3.774
4.220 - Dalapon
4.555
4.465
4.970
5.465
7.913
11.916 - 2,4-Dichlorophenylacetic acid
12.307 - Dicamba
12.779 - MCPP
13.134 - MCPA
13.894 - Dichlorprop
14.445 - 2,4-D
15.032
16.374 - 2,4,5-TP (Silvex)
17.024 - 2,4,5-T
17.981 - 2,4-DB
19.506 - Dinoseb
23.287

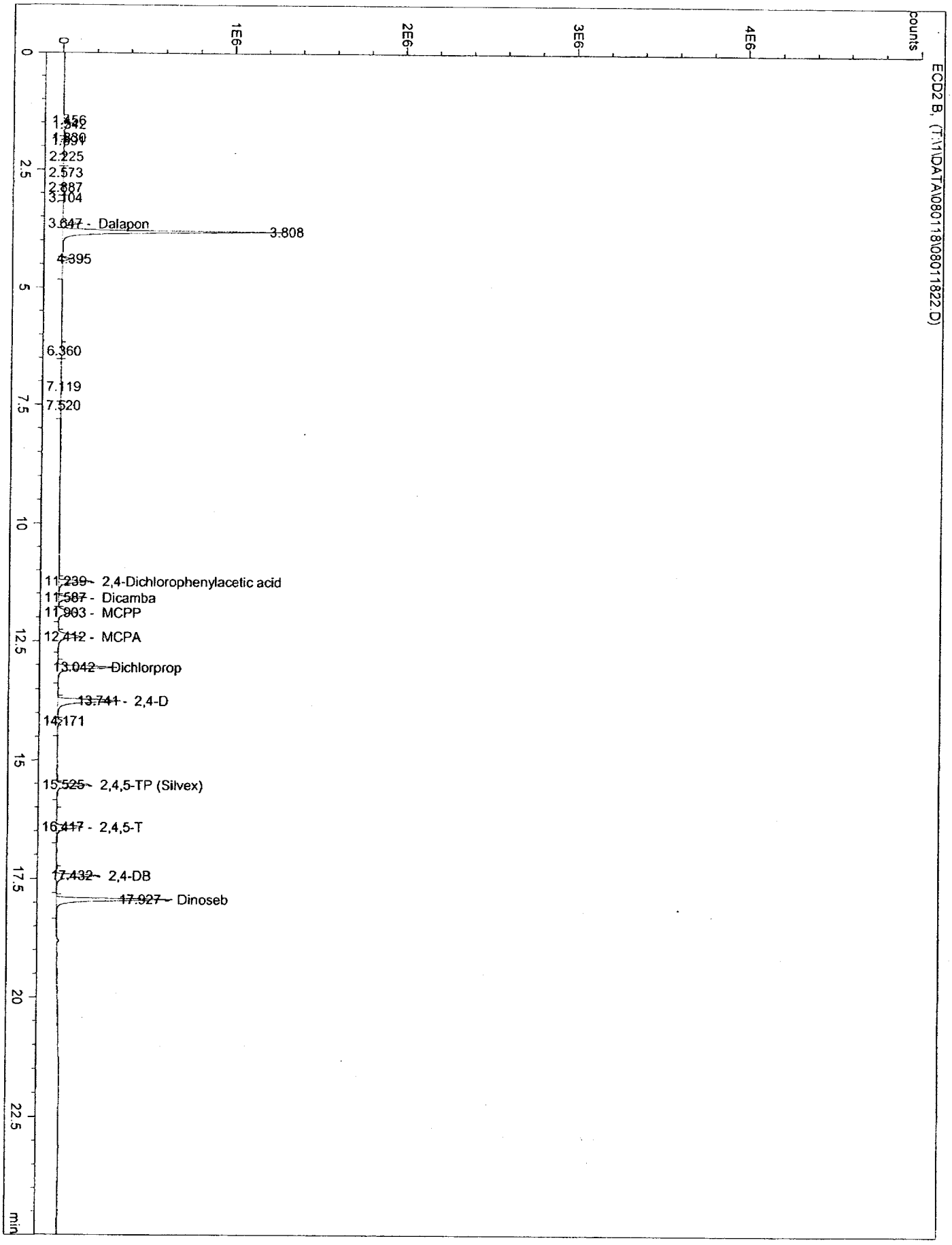
External Standard Report

Data File Name : T:\1\DATA\080118\08011822.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM CCV
Run Time Bar Code:
Acquired on : 1/19/2008 02:54 am
Report Created on: 21 Jan 08 10:12 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R1218.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 24
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Dec07

Sig. [ECD2 B,] T:\1\DATA\080118\08011822.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
3.647	327328.9PV		0.049		10.317	Dalapon
11.239	753511.4BV		0.069		2.090	2,4-Dichlorophenylacetic acid
11.587	574331.4VV		0.061		0.439	Dicamba
11.903	549455.0VB		0.079		415.472	MCPP
12.412	796981.8BB		0.154		407.432	MCPA
13.042	1400266.9BB		0.070		4.225	Dichlorprop
13.741	1760994.0BV		0.074		4.255	2,4-D
15.525	875114.6VB		0.070		0.445	2,4,5-TP (Silvex)
16.417	774704.2BB		0.077		0.439	2,4,5-T
17.432	1081364.9BB		0.145		4.281	2,4-DB
17.927	2592684.7BB		0.141		2.004	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\080118\08011822.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.456
2.225
2.573
3.104
3.647 - Dalapon
3.808
4.395
6.360
7.119
7.520
11.239 - 2,4-Dichlorophenylacetic acid
11.587 - Dicamba
11.903 - MCPP
12.412 - MCPA
13.042 - Dichlorprop
13.741 - 2,4-D
14.171
15.525 - 2,4,5-TP (Silvex)
16.417 - 2,4,5-T
17.432 - 2,4-DB
17.927 - Dinoseb

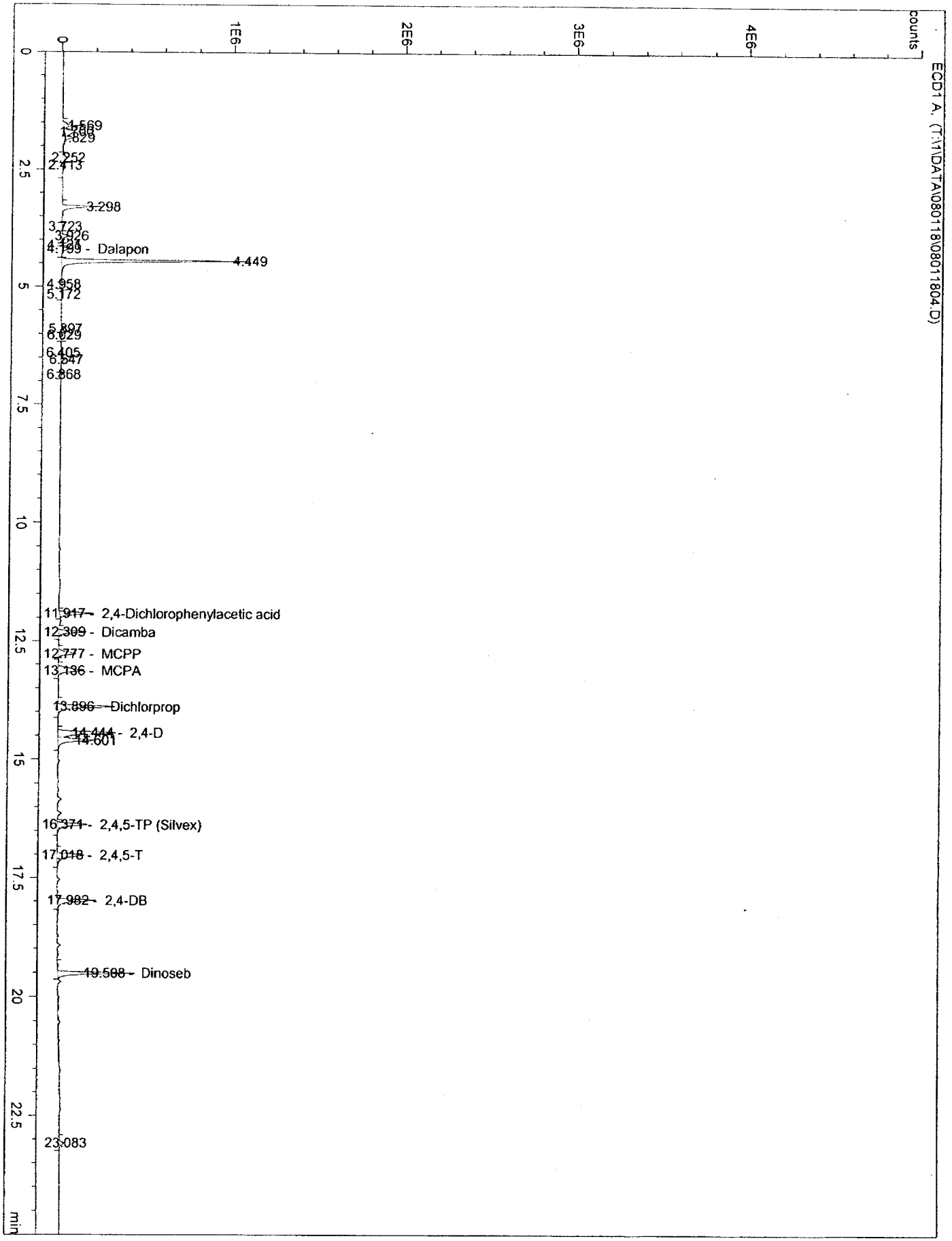
External Standard Report

Data File Name : T:\1\DATA\080118\08011804.D
Operator :
Instrument : GC 0
Sample Name : LCSD 080117L18
Run Time Bar Code:
Acquired on : 1/19/2008 05:41 am
Report Created on: 21 Jan 08 11:32 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F1218.M

Page Number :
Vial Number : Vial 4
Injection Number : 1
Sequence Line : 29
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 04Jan08

Sig. ECD1A, T:\1\DATA\080118\08011804.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
4.199	206175.2VV		0.048		5.862	Dalapon
11.917	665941.1BB		0.051		2.043	2,4-Dichlorophenylacetic acid
12.309	510157.7BB		0.049		0.408	Dicamba
12.777	431666.6BB		0.062		378.321	MCPP
13.136	726843.4BB		0.068		445.455	MCPA
13.896	1235740.6BB		0.057		4.183	Dichlorprop
14.444	1413464.7BV		0.063		3.685	2,4-D
16.371	753542.4BB		0.065		0.408	2,4,5-TP (Silvex)
17.018	774700.9BB		0.072		0.468	2,4,5-T
17.982	845040.9BB		0.056		3.999	2,4-DB
19.508	1353322.6BV		0.045		1.236	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\080118\08011804.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
4.449 - Dalapon
11.917 - 2,4-Dichlorophenylacetic acid
12.309 - Dicamba
12.777 - MCPP
13.136 - MCPA
13.896 - Dichlorprop
14.444 - 2,4-D
16.371 - 2,4,5-TP (Silvex)
17.018 - 2,4,5-T
17.982 - 2,4-DB
19.508 - Dinoseb
23.083

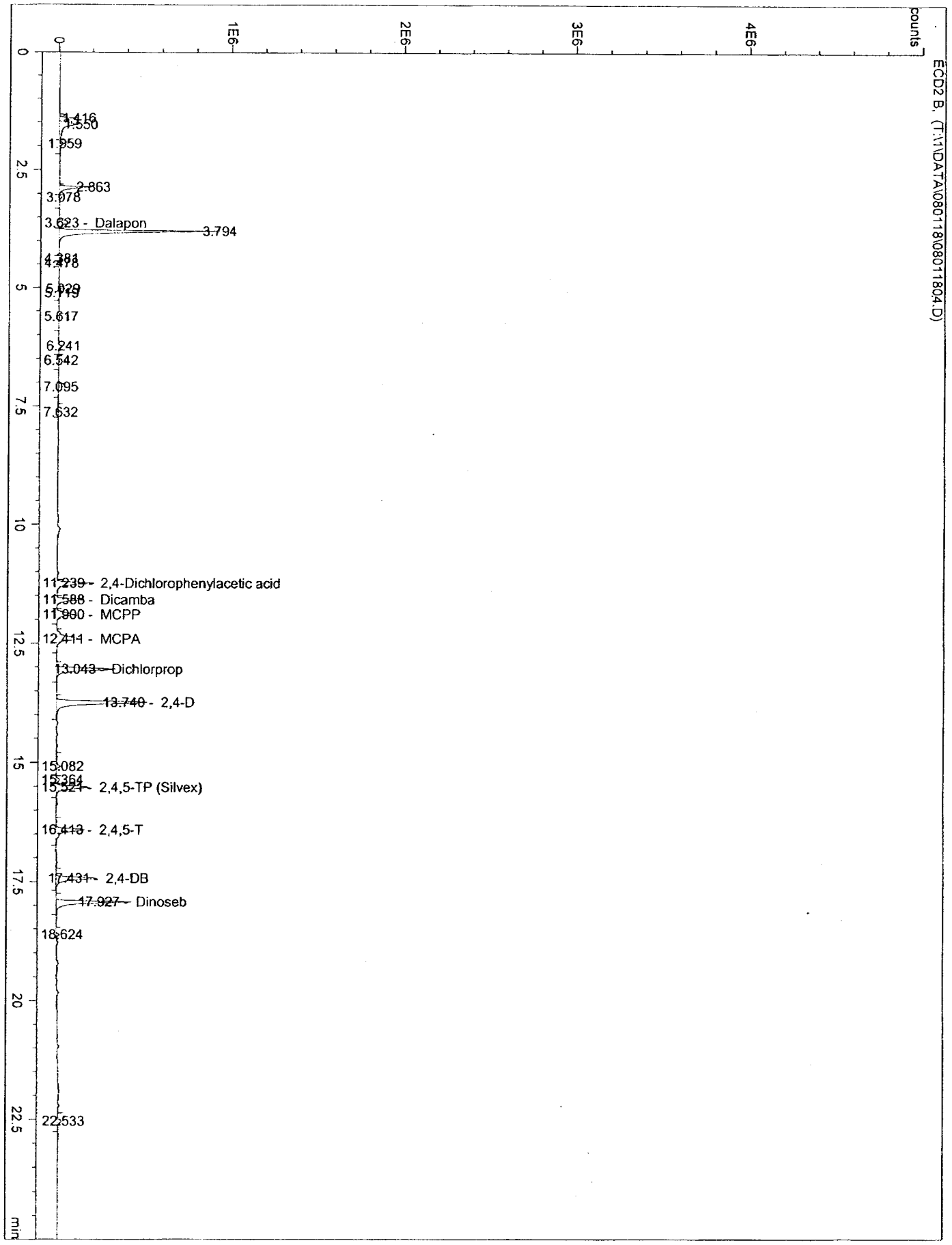
External Standard Report

Data File Name : T:\1\DATA\080118\08011804.D
Operator :
Instrument : GC 0
Sample Name : LCSD 080117L18
Run Time Bar Code:
Acquired on : 1/19/2008 05:41 am
Report Created on: 21 Jan 08 11:32 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R1218.M

Page Number :
Vial Number : Vial 4
Injection Number : 1
Sequence Line : 29
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Dec07

Sig. ECD2B, T:\1\DATA\080118\08011804.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
3.623	291775.7VV		0.061		9.196	Dalapon
11.239	822943.9BV		0.065		2.282	2,4-Dichlorophenylacetic acid
11.588	540550.7VV		0.055		0.413	Dicamba
11.900	499444.7PB		0.072		377.657	MCPP
12.411	813493.1BB		0.087		415.873	MCPA
13.043	1384596.7BB		0.062		4.177	Dichlorprop
13.740	2338697.8BB		0.068		5.651	2,4-D
15.521	802165.9VV		0.067		0.408	2,4,5-TP (Silvex)
16.413	867472.9BB		0.079		0.492	2,4,5-T
17.431	989192.1BB		0.064		3.916	2,4-DB
17.927	1642046.0BB		0.118		1.269	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1DATA\080118\08011804.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.416
1.550
1.959
2.863
3.078
3.623 - Dalapon
3.794
4.284
4.478
5.029
5.719
5.617
6.241
6.542
7.095
7.632
11.239 - 2,4-Dichlorophenylacetic acid
11.588 - Dicamba
11.980 - MCPP
12.411 - MCPA
13.043 - Dichlorprop
13.740 - 2,4-D
15.082
15.364
15.521 - 2,4,5-TP (Silvex)
16.413 - 2,4,5-T
17.431 - 2,4-DB
17.927 - Dinoseb
18.624
22.533

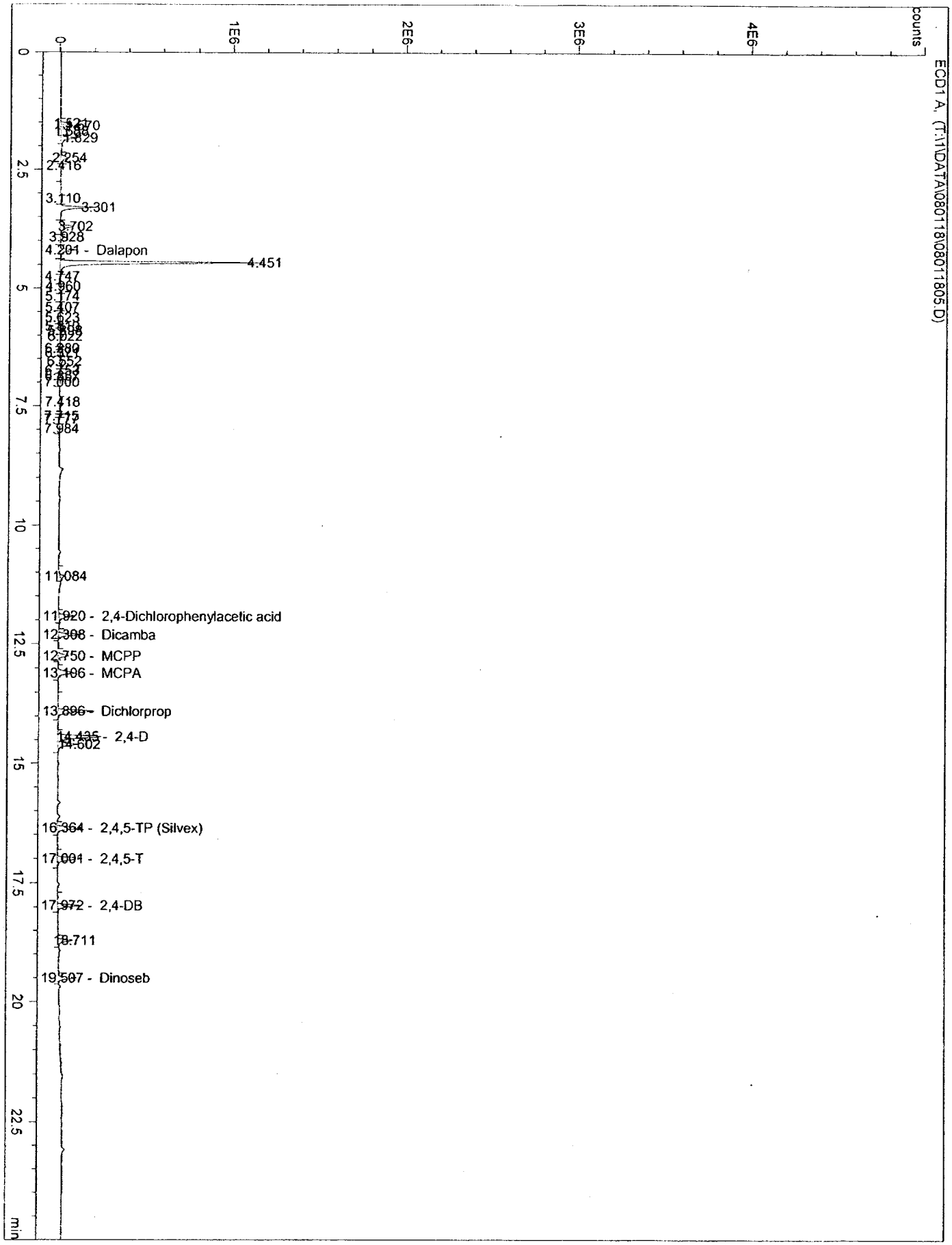
External Standard Report

Data File Name : T:\1\DATA\080118\08011805.D
Operator :
Instrument : GC 0
Sample Name : 01-1021-3 MS
Run Time Bar Code:
Acquired on : 1/19/2008 06:14 am
Report Created on: 21 Jan 08 11:32 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F1218.M

Page Number :
Vial Number : Vial 5
Injection Number : 1
Sequence Line : 30
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 04Jan08

Sig. ECD1A, T:\1\DATA\080118\08011805.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
4.201	291566.9	VV	0.047		8.289	Dalapon
11.920	327247.4	BB	0.053		1.004	2,4-Dichlorophenylacetic acid
12.308	404829.7	BB	0.048		0.324	Dicamba
12.750	207440.8	BB	0.053		181.805	MCPP
13.106	383236.0	BB	0.058		234.871	MCPA
13.896	758118.2	BB	0.056		2.566	Dichlorprop
14.435	1014869.8	BV	0.062		2.646	2,4-D
16.364	509788.0	BB	0.057		0.276	2,4,5-TP (Silvex)
17.001	572064.9	BB	0.060		0.346	2,4,5-T
17.972	431954.9	BB	0.050		2.044	2,4-DB
19.507	291105.2	BV	0.043		0.266	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\080118\080118O5.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
4.451
Dalapon
11.084
2,4-Dichlorophenylacetic acid
Dicamba
MCPP
MCPA
Dichlorprop
2,4-D
2,4,5-TP (Silvex)
2,4,5-T
2,4-DB
Dinoseb

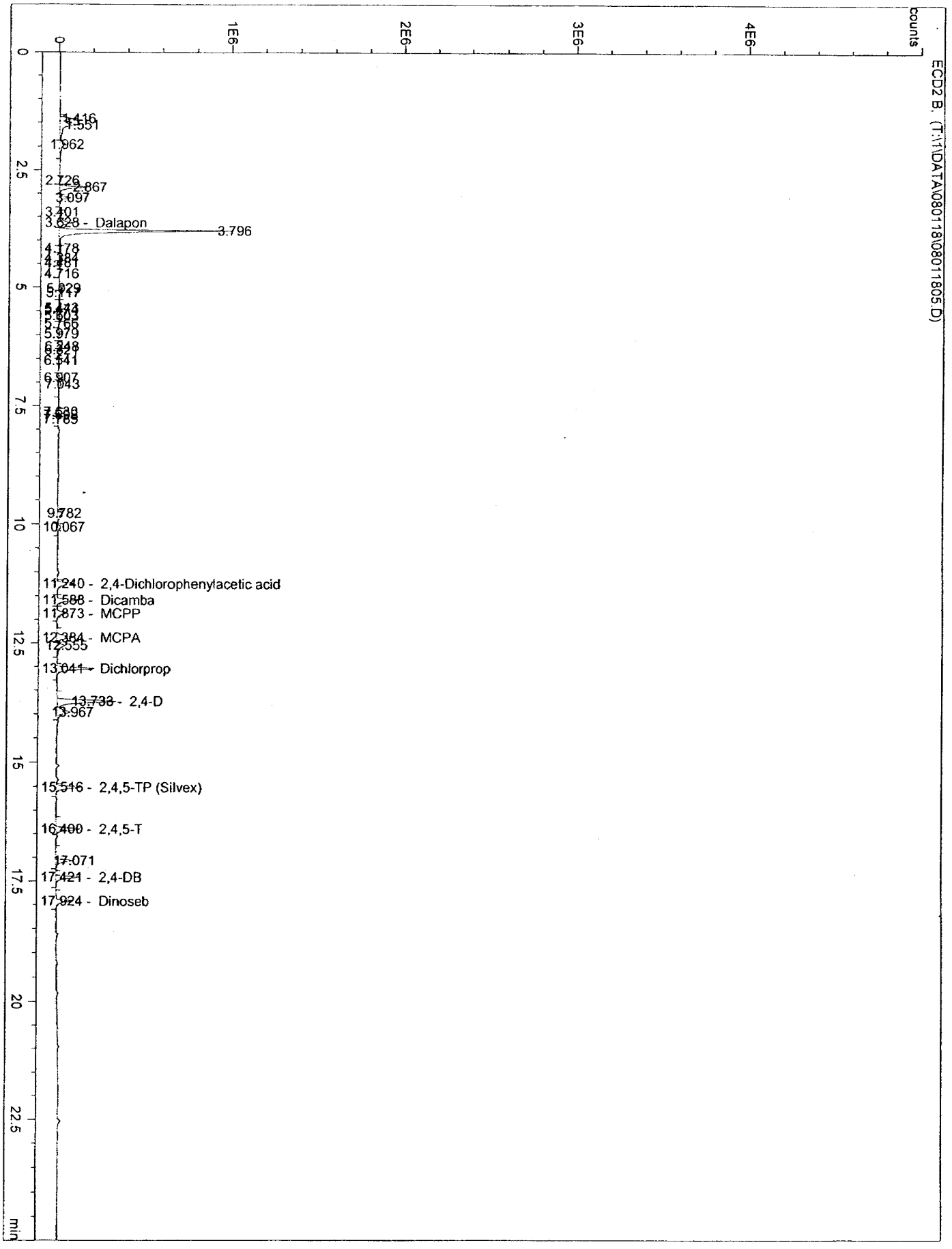
External Standard Report

Data File Name : T:\1\DATA\080118\08011805.D
Operator :
Instrument : GC 0
Sample Name : 01-1021-3 MS
Run Time Bar Code:
Acquired on : 1/19/2008 06:14 am
Report Created on: 21 Jan 08 11:32 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R1218.M

Page Number :
Vial Number : Vial 5
Injection Number : 1
Sequence Line : 30
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Dec07

Sig. ECD2 B, T:\1\DATA\080118\08011805.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
3.628	317216.4	VV	0.053		9.998	Dalapon
11.240	388727.5	BV	0.058		1.078	2,4-Dichlorophenylacetic acid
11.588	443006.4	VV	0.052		0.338	Dicamba
11.873	242919.3	VB	0.060		183.684	MCPP
12.384	421130.3	BV	0.064		215.290	MCPA
13.041	843601.3	BB	0.059		2.545	Dichlorprop
13.733	1406460.6	BV	0.063		3.399	2,4-D
15.516	543608.6	VV	0.060		0.277	2,4,5-TP (Silvex)
16.400	532592.2	BV	0.061		0.302	2,4,5-T
17.421	500713.8	BB	0.056		1.982	2,4-DB
17.924	351402.7	BB	0.052		0.272	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1DATA\080118\08011805.D)
min
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
1.416
1.551
1.962
2.726
2.867
3.097
3.401
3.628 - Dalapon
3.796
4.178
4.716
5.029
9.782
10.067
11.240 - 2,4-Dichlorophenylacetic acid
11.588 - Dicamba
11.873 - MCPP
12.384 - MCPA
12.555
13.041 - Dichlorprop
13.738 - 2,4-D
13.967
15.546 - 2,4,5-TP (Silvex)
16.400 - 2,4,5-T
17.071
17.421 - 2,4-DB
17.924 - Dinoseb

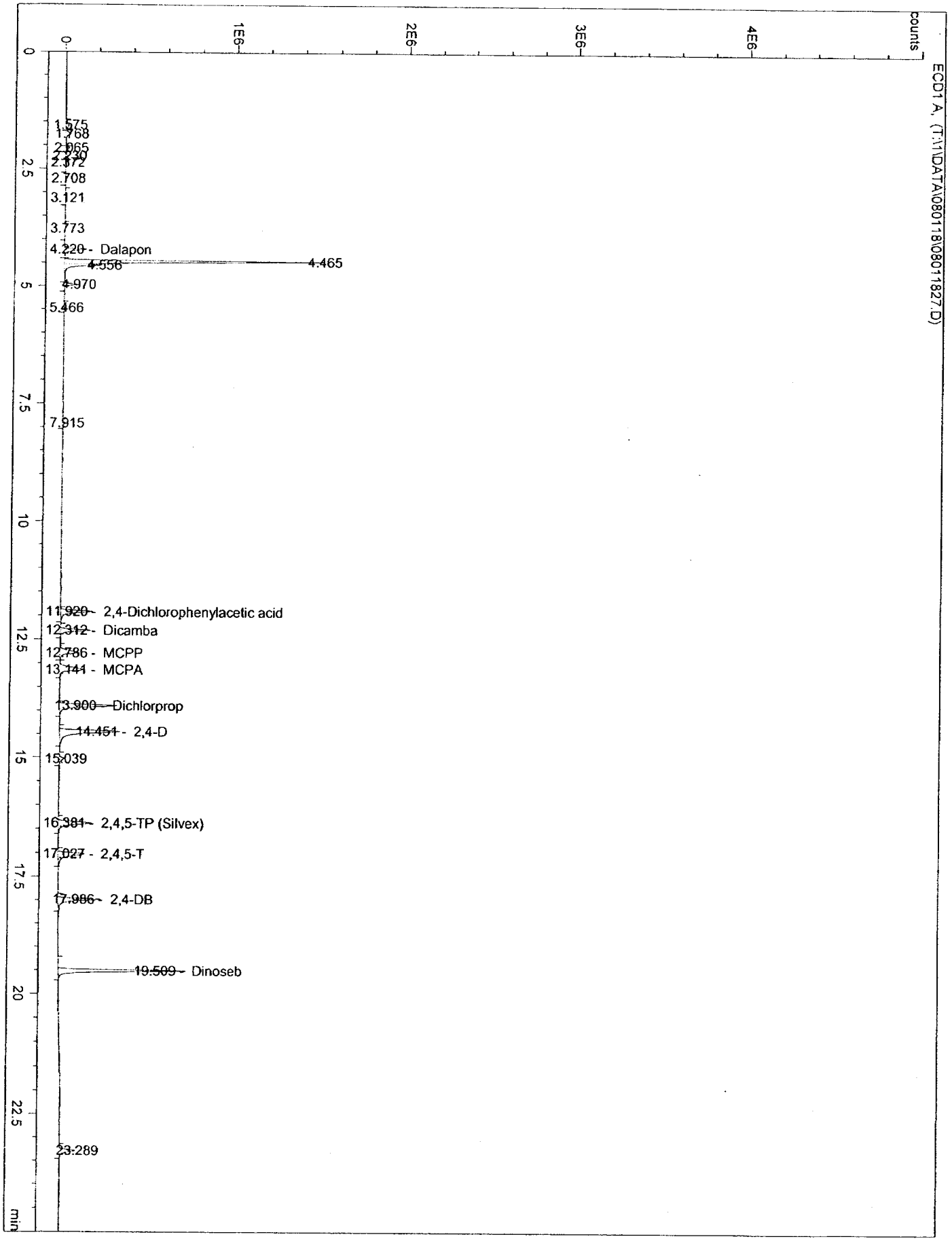
External Standard Report

Data File Name : T:\1\DATA\080118\08011827.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM CCV
Run Time Bar Code:
Acquired on : 1/19/2008 06:47 am
Report Created on: 21 Jan 08 10:09 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85F1218.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 31
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 04Jan08

Sig. ECD1 A, T:\1\DATA\080118\08011827.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
4.220	381358.2	VV	0.043		10.842	Dalapon
11.920	698943.1	BB	0.056		2.144	2,4-Dichlorophenylacetic acid
12.312	552103.0	BB	0.050		0.441	Dicamba
12.786	499151.1	BB	0.065		437.465	MCPP
13.141	698146.7	BB	0.072		427.867	MCPA
13.900	1255686.6	BB	0.057		4.251	Dichlorprop
14.451	1670798.9	BB	0.071		4.355	2,4-D
16.381	834625.1	BB	0.066		0.452	2,4,5-TP (Silvex)
17.027	757106.1	BB	0.073		0.457	2,4,5-T
17.986	957971.3	BB	0.057		4.534	2,4-DB
19.509	2158369.8	BB	0.044		1.972	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD1 A, (T:\1\DATA\080118\08011827.D)
1.575
1.768
2.065
2.230
2.372
2.708
3.121
3.773
4.220 - Dalapon
4.556
4.465
4.970
5.466
7.915
11.920 - 2,4-Dichlorophenylacetic acid
12.312 - Dicamba
12.786 - MCPP
13.141 - MCPA
13.900 - Dichlorprop
14.451 - 2,4-D
15.039
16.381 - 2,4,5-TP (Silvex)
17.027 - 2,4,5-T
17.986 - 2,4-DB
19.509 - Dinoseb
23.289
min

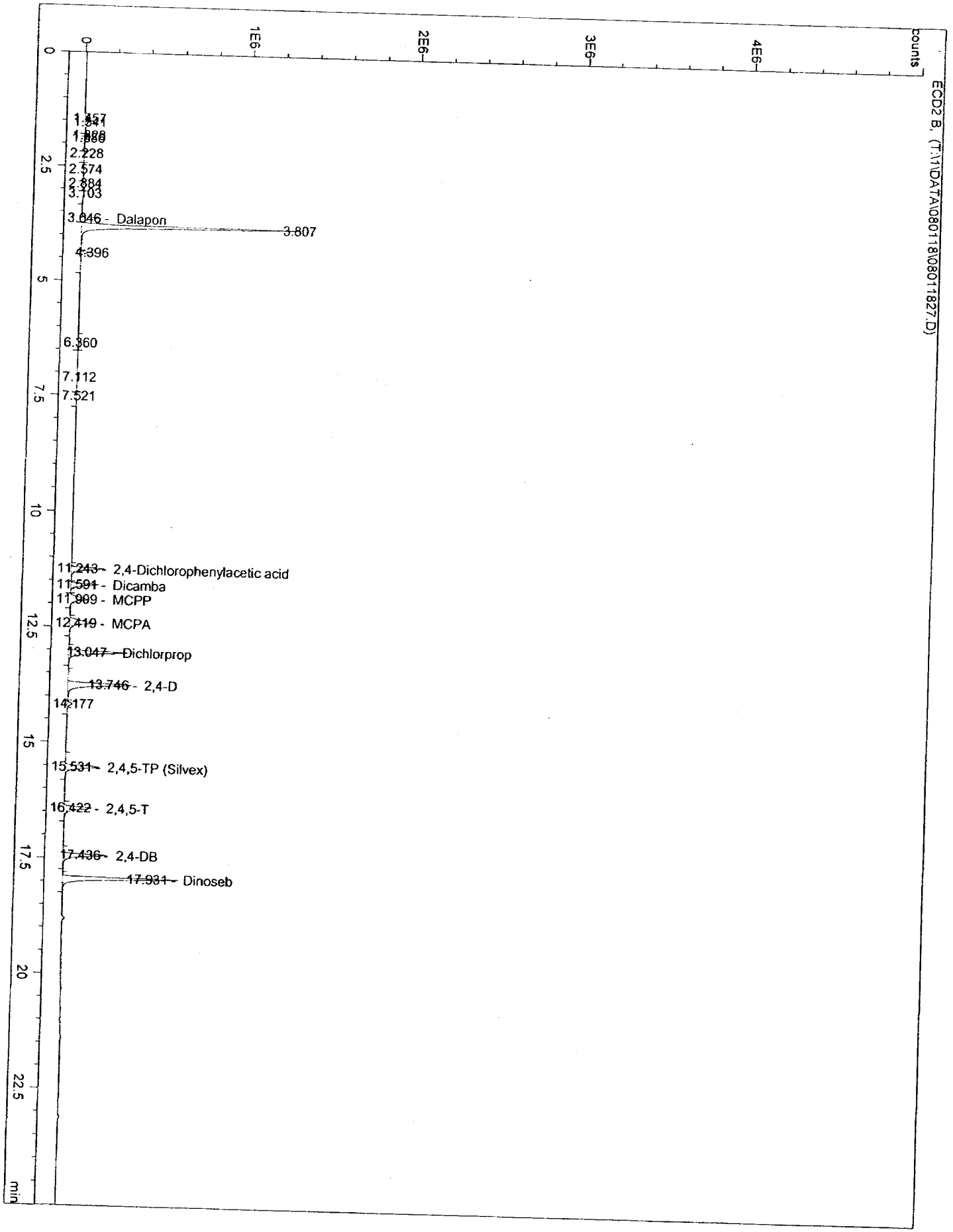
External Standard Report

Data File Name : T:\1\DATA\080118\08011827.D
Operator :
Instrument : GC 0
Sample Name : 0.4PPM CCV
Run Time Bar Code:
Acquired on : 1/19/2008 06:47 am
Report Created on: 21 Jan 08 10:14 am
Calibrated on : 21 Sep 04 02:13 pm
Analysis Method : T:\1\METHODS\85R1218.M

Page Number :
Vial Number : Vial 1
Injection Number : 1
Sequence Line : 31
Instrument Method: 8151.M
Sample Amount :
Last Modified on : 18Dec07

Sig. ECD2 B. T:\1\DATA\080118\08011827.D

Ret Time	Area	Type	Width	Ref #	ppm	Name
3.646	334283.2	PV	0.050		10.536	Dalapon
11.243	771643.0	BV	0.060		2.140	2,4-Dichlorophenylacetic acid
11.591	589276.0	VV	0.055		0.450	Dicamba
11.909	561024.3	VB	0.076		424.220	MCPP
12.419	810741.4	BB	0.080		414.466	MCPA
13.047	1430266.9	BB	0.063		4.315	Dichlorprop
13.746	1778616.4	BB	0.072		4.298	2,4-D
15.531	897534.5	BB	0.069		0.457	2,4,5-TP (Silvex)
16.422	793878.9	BB	0.075		0.450	2,4,5-T
17.436	1102027.9	BB	0.064		4.362	2,4-DB
17.931	2594109.8	BB	0.058		2.005	Dinoseb


counts
0
1E6
2E6
3E6
4E6
ECD2 B, (T:\1\DATA\080118\08011827.D)
1.457
1.541
2.228
2.574
2.884
3.703
3.846 - Dalapon
3.807
4.396
6.360
7.112
7.521
11.243 - 2,4-Dichlorophenylacetic acid
11.591 - Dicamba
11.909 - MCPP
12.419 - MCPA
13.047 - Dichlorprop
13.746 - 2,4-D
14.177
15.531 - 2,4,5-TP (Silvex)
16.422 - 2,4,5-T
17.436 - 2,4-DB
17.931 - Dinoseb
min

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 200684
ANALYTICAL REPORT

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065 Presidio
Petaluma, CA 94954	Level : III

Sample ID	Lab ID
1065EX301[8.5]	200684-001
1065EX302[8.5]	200684-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 02/01/2008
Project Manager

Signature: _____ Date: 02/04/2008
Operations Manager

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**200684**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**01/22/08**
Samples Received:	**01/22/08**

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 01/22/08. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
5035 samples not analyzed within 48 hours were frozen. Low recoveries were observed for gasoline C7-C12 in the MS/MSD of 1065EX301[8.5] (lab # 200684-001), due to matrix interference; these low recoveries were confirmed by re-analysis, the LCS was within limits, and the associated RPD was within limits. High surrogate recoveries were observed for bromofluorobenzene (FID) and trifluorotoluene (FID) in 1065EX301[8.5] (lab # 200684-001), due to interference from coeluting hydrocarbon peaks. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High surrogate recovery was observed for bromofluorobenzene in the MSD of 1065EX301[8.5] (lab # 200684-001), due to matrix interference. No other analytical problems were encountered.

Metals (EPA 6010B):
High recovery was observed for lead in the MSD of 1065EX301[8.5] (lab # 200684-001); the BS/BSD were within limits. High RPD was also observed for lead in the MS/MSD of 1065EX301[8.5] (lab # 200684-001); the RPD was acceptable in the BS/BSD. High % difference was observed for lead in the serial dilution of 1065EX301[8.5] (lab # 200684-001). No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

MACTEC

CHAIN OF CUSTODY RECORD

3836

200684

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust - Building 1063
STREET ADDRESS:
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065
JOB NO.: 408407511502.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 1/22/08

TIME	GRAB	COMP.	MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: BTEX 8260	TPHg	TPHdtfo-w-silicagel	Lead & Arsenic	FOR LAB USE ONLY
1430	X		SO	1065EX301[8.5]		+MS/MSD	14	X	X	X	X	
1510	X		SO	1065EX302[8.5]			7	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	1/22/08 1530		1/22 2330			1/23 0415

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS
TPHg, BTEX, TPHdtfo on 24 hr TAT
Arsenic & Lead on 5-day

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 08-Aug-07
Revision: 3 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd

COOLER RECEIPT CHECKLIST

Login#: 200684 Date Received: 1-22-08 Number of Coolers: 1
Client: Macte Project: Presidio

A. Preliminary Examination Phase
Date Opened: 1-22-08 By (print): Faith Nichols (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: Ziploc bags
9. If required, was sufficient ice used? Samples should be <=6 degrees C. ..... (YES) NO
Type of ice: Wet Temperature: No temp blank, All cold
10. Were Encore sampling devices present in the cooler? ..... (YES) NO
If YES, enter time they were transferred to the freezer 1630

B. Login Phase
Date Logged In: 1-22-08 By (print): Faith Nichols (sign) [signature]

1. Did all bottles arrive unbroken? ..... (YES) NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
3. Did bottle labels agree with custody papers? ..... (YES) NO
4. Were appropriate containers used for the tests indicated? ..... (YES) NO
5. Were correct preservatives added to samples? ..... YES NO N/A
6. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
7. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
8. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, give details below.
Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/22/08
Units:	mg/Kg	Received:	01/22/08
Diln Fac:	1.000	Analyzed:	01/22/08
Batch#:	134007		

Field ID: 1065EX301[8.5] Basis: dry
Type: SAMPLE Moisture: 19%
Lab ID: 200684-001

Analyte	Result	RL	MDL
Gasoline C7-C12	7.9 Y	0.23	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	166 *	65-135
Bromofluorobenzene (FID)	202 *	65-135

Field ID: 1065EX302[8.5] Basis: dry
Type: SAMPLE Moisture: 20%
Lab ID: 200684-002

Analyte	Result	RL	MDL
Gasoline C7-C12	1.4 Y	0.25	0.017

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	121	65-135

Type: BLANK Basis: as received
Lab ID: QC425091

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	103	65-135

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC425092	Diln Fac:	1.000
Matrix:	Soil	Batch#:	134007
Units:	mg/Kg	Analyzed:	01/22/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.920	98	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	65-135
Bromofluorobenzene (FID)	109	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX301[8.5]	Diln Fac:	1.000
MSS Lab ID:	200684-001	Batch#:	134007
Matrix:	Soil	Sampled:	01/22/08
Units:	mg/Kg	Received:	01/22/08
Basis:	as received	Analyzed:	01/23/08

Type: MS Lab ID: QC425094

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	6.382	1.905	2.614	-198 * P	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	65-135
Bromofluorobenzene (FID)	123	65-135

Type: MSD Lab ID: QC425095

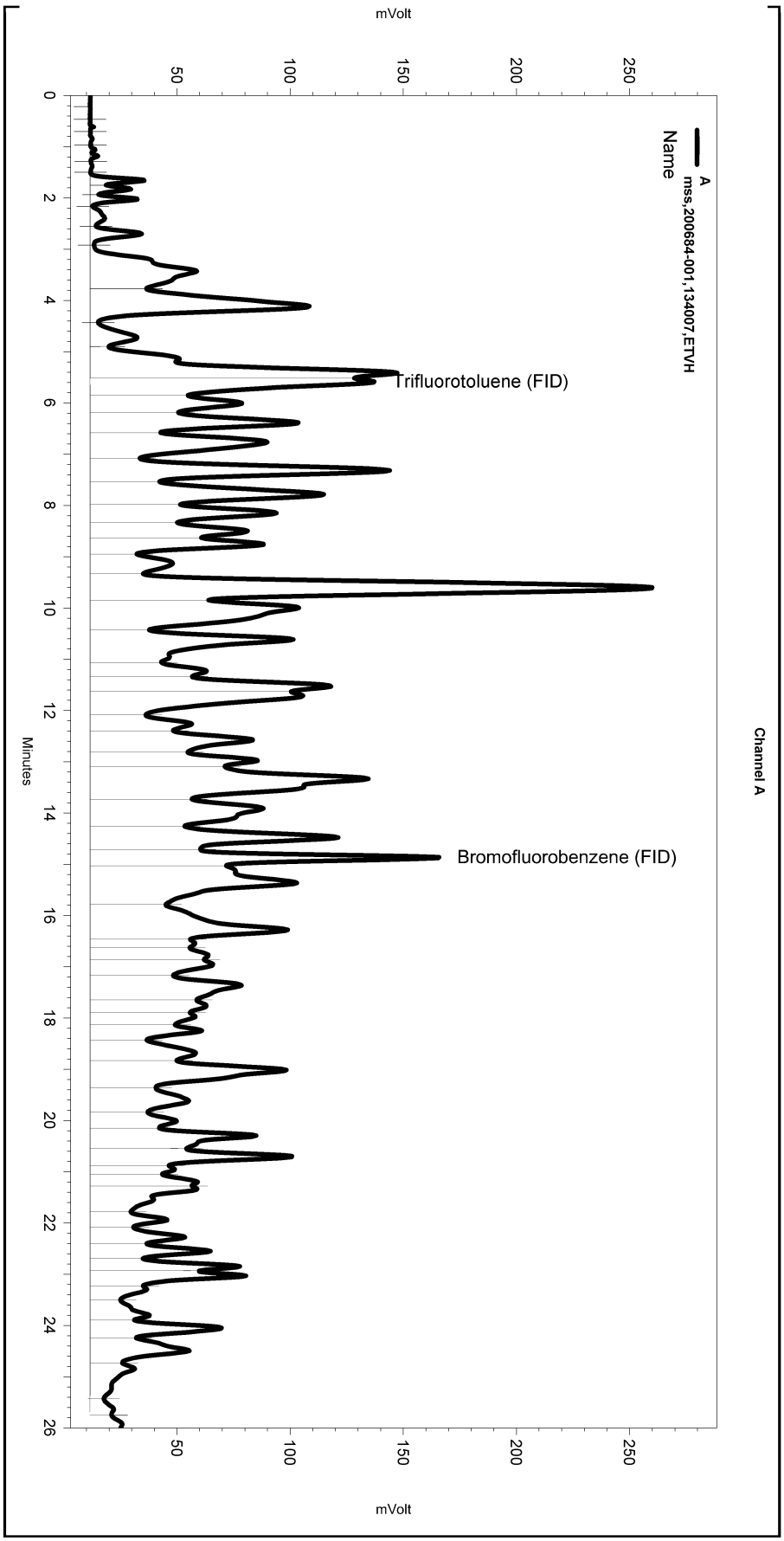
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.825	2.750	-199 * P	75-125	6	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	65-135
Bromofluorobenzene (FID)	129	65-135

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\022.seq**
Sample Name: **mss,200684-001,134007,ETVH**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\022_012**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/22/2008 9:43:59 PM
Analysis Date: 1/23/2008 7:38:51 AM
Sample Amount: 5.28 Multiplier: 5.28
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

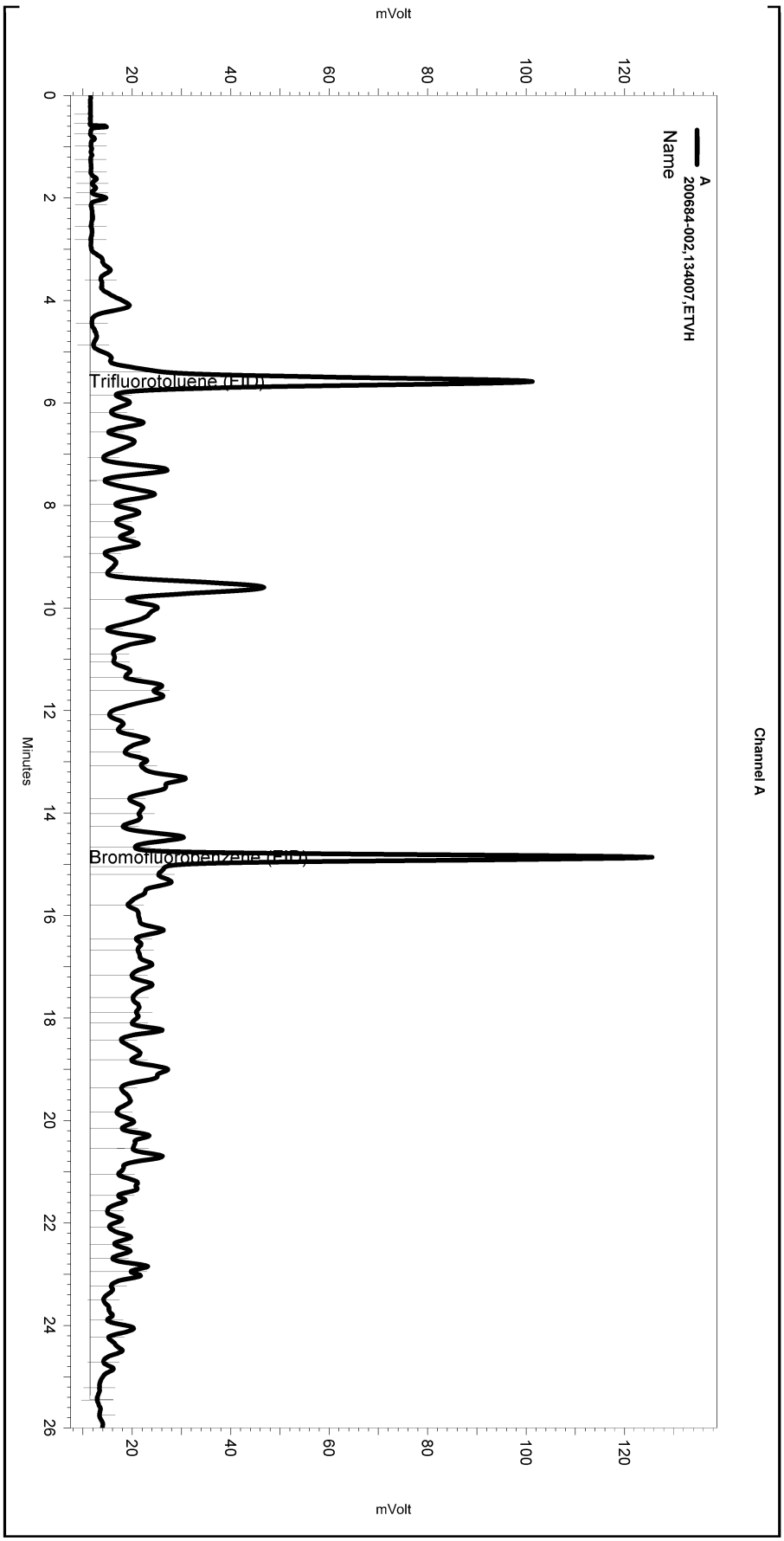
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\022_012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.192	25.707	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\022.seq**
Sample Name: **200684-002,134007,ETVH**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\022_013**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/22/2008 10:19:37 PM
Analysis Date: 1/23/2008 9:22:57 AM
Sample Amount: 4.93 Multiplier: 4.93
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

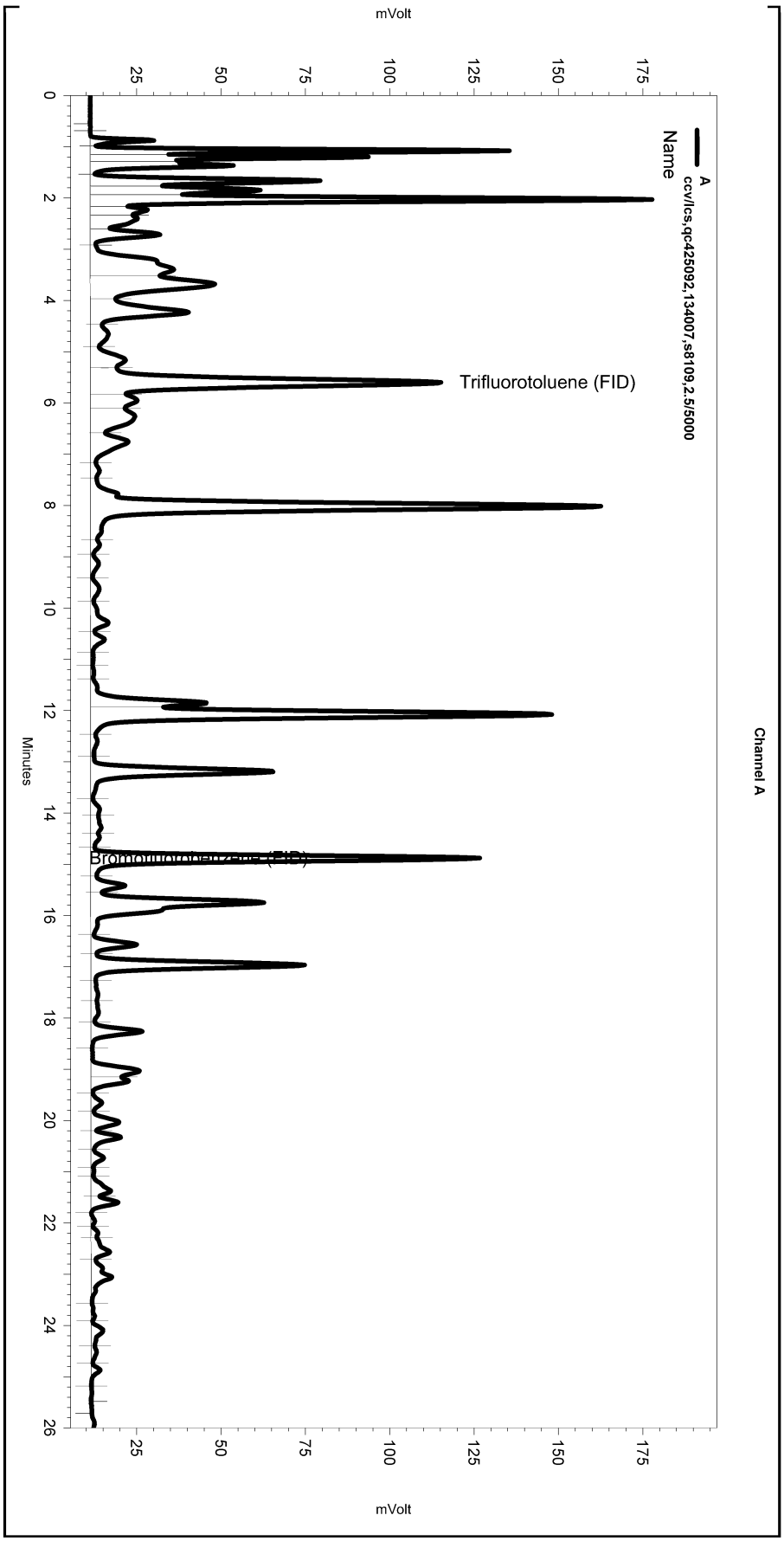
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\022_013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.088	25.654	0
Yes	Split Peak	5.397	0	0
Yes	Split Peak	15.056	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\022.seq**
Sample Name: **ccv/lcs,qc425092,134007,s8109,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\022_004**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/22/2008 10:22:15 AM
Analysis Date: 1/23/2008 7:27:59 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\022_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/22/08
Units:	mg/Kg	Received:	01/22/08
Diln Fac:	1.000	Prepared:	01/23/08
Batch#:	134026	Analyzed:	01/23/08

Field ID:	1065EX301[8.5]	Basis:	dry
Type:	SAMPLE	Moisture:	19%
Lab ID:	200684-001	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	2.4 Y	1.2	0.32
Fuel Oil C24-C36	5.4 J	6.2	1.7

Surrogate	%REC	Limits
Hexacosane	100	65-135

Field ID:	1065EX302[8.5]	Basis:	dry
Type:	SAMPLE	Moisture:	20%
Lab ID:	200684-002	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.2	0.32
Fuel Oil C24-C36	ND	6.2	1.7

Surrogate	%REC	Limits
Hexacosane	95	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC425161	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	0.99	0.27
Fuel Oil C24-C36	ND	5.0	1.3

Surrogate	%REC	Limits
Hexacosane	108	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC425162	Batch#:	134026
Matrix:	Soil	Prepared:	01/23/08
Units:	mg/Kg	Analyzed:	01/23/08
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.90	44.65	89	65-135

Surrogate	%REC	Limits
Hexacosane	103	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX301[8.5]	Batch#:	134026
MSS Lab ID:	200684-001	Sampled:	01/22/08
Matrix:	Soil	Received:	01/22/08
Units:	mg/Kg	Prepared:	01/23/08
Basis:	dry	Analyzed:	01/23/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC425163
Moisture: 19%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	2.432	61.26	51.87	81	65-135

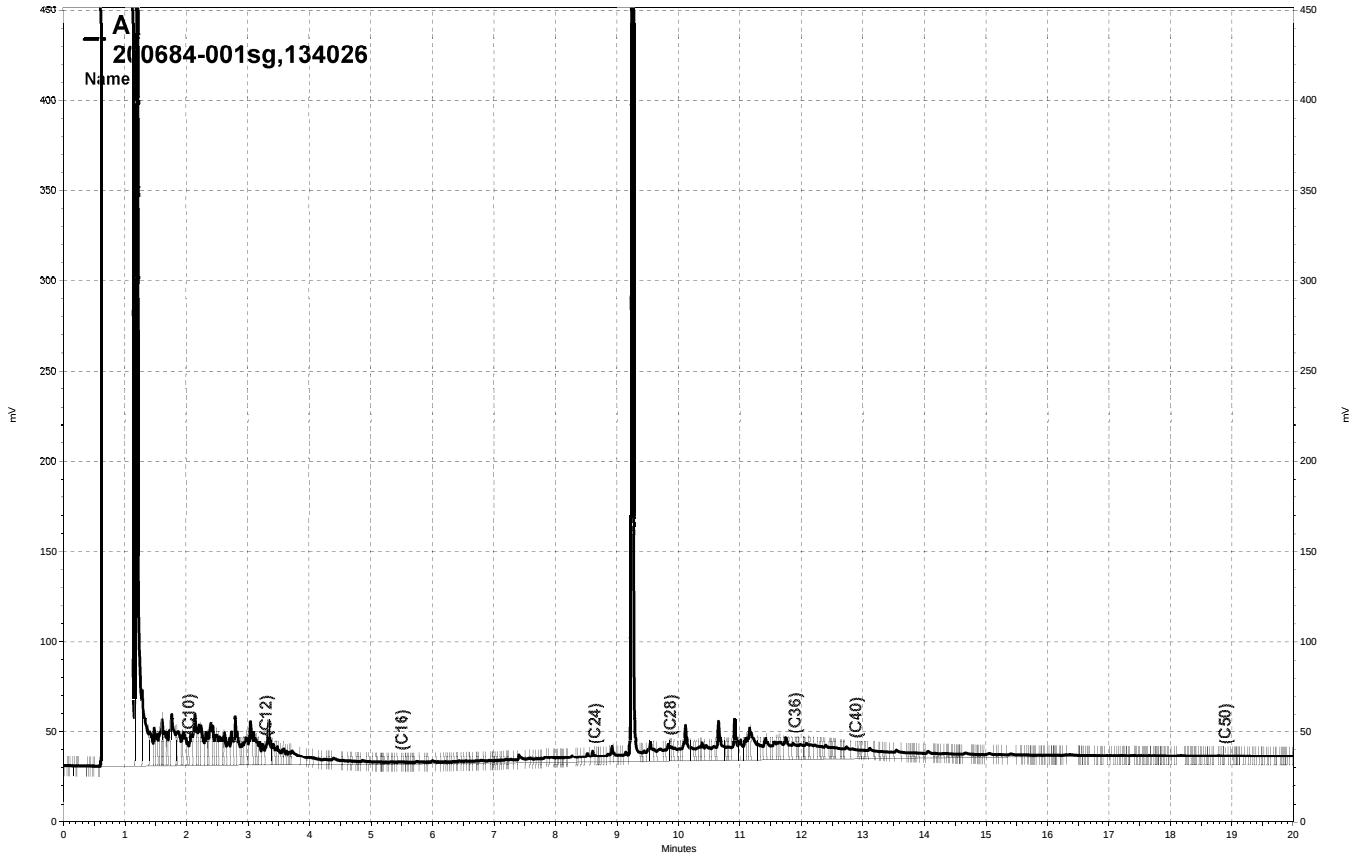
Surrogate	%REC	Limits
Hexacosane	86	65-135

Type: MSD
Lab ID: QC425164
Moisture: 19%
Cleanup Method: EPA 3630C

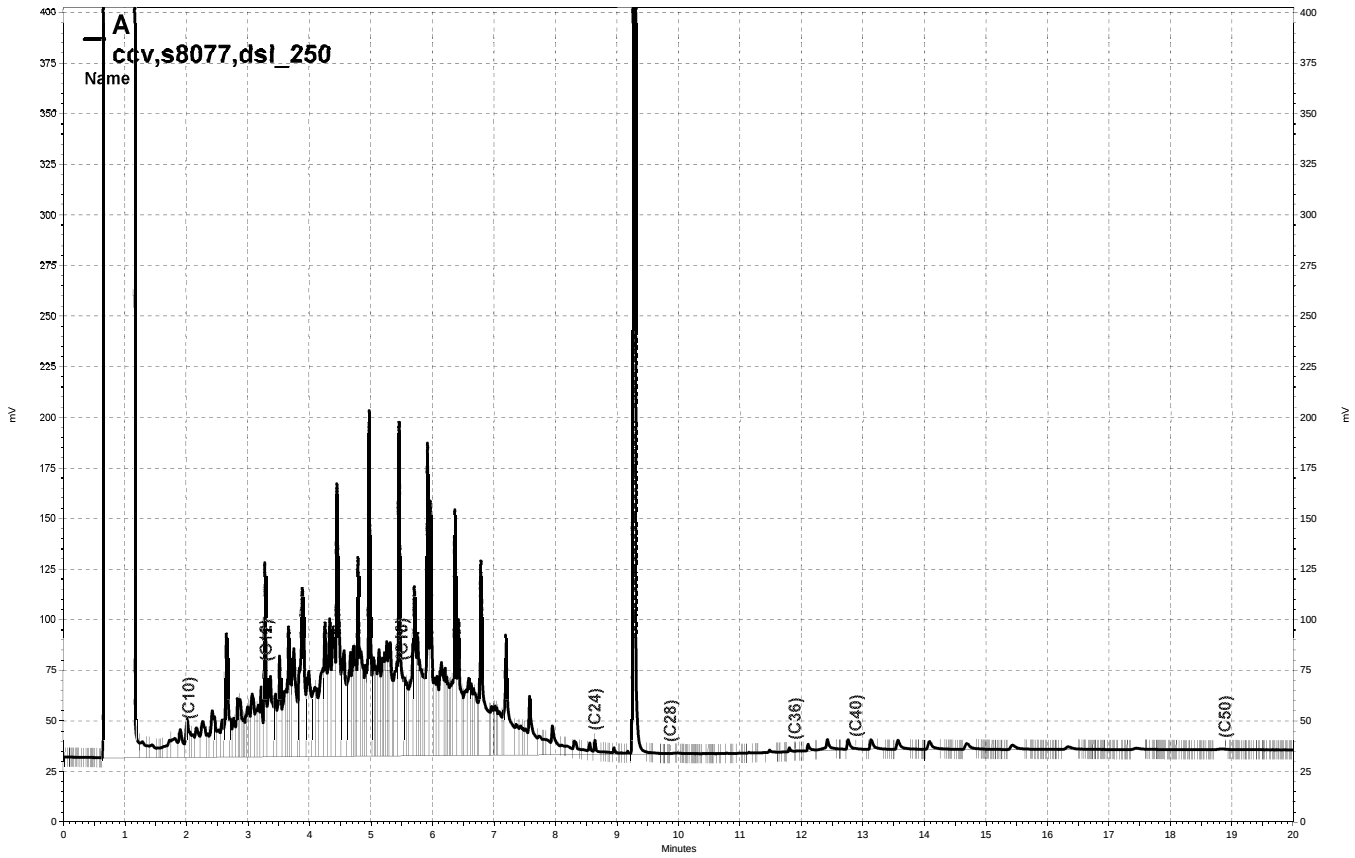
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	61.56	59.90	93	65-135	14	35

Surrogate	%REC	Limits
Hexacosane	100	65-135

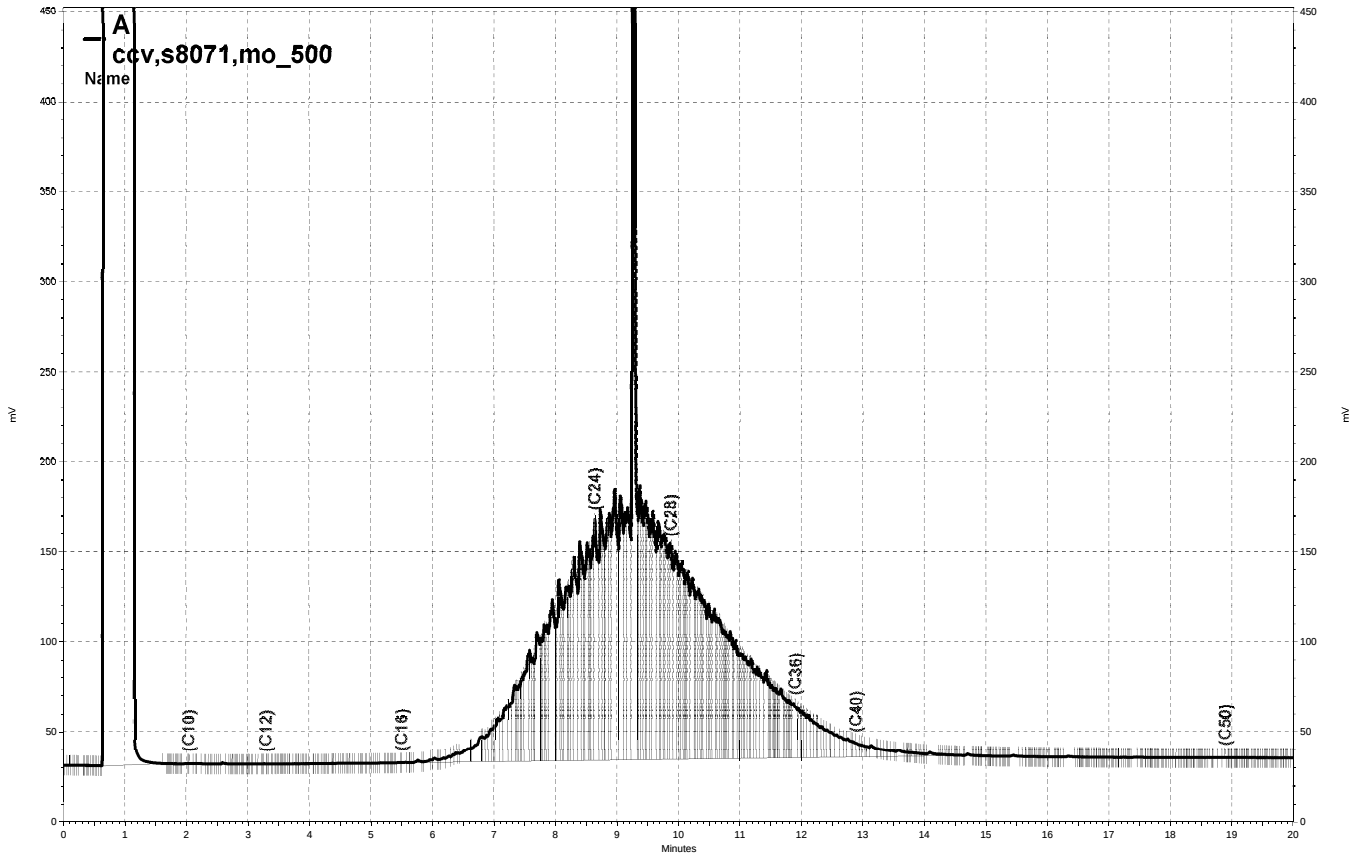
RPD= Relative Percent Difference



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\023a012, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\023a003, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\023a004, A

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX301[8.5]	Diln Fac:	0.9804
Lab ID:	200684-001	Batch#:	133987
Matrix:	Soil	Sampled:	01/22/08
Units:	ug/Kg	Received:	01/22/08
Basis:	dry	Analyzed:	01/22/08

Moisture: 19%

Analyte	Result	RL	MDL
Benzene	ND	6.1	0.56
Toluene	ND	6.1	0.60
Ethylbenzene	ND	6.1	0.72
m,p-Xylenes	ND	6.1	1.6
o-Xylene	ND	6.1	0.72

Surrogate	%REC	Limits
Dibromofluoromethane	105	59-113
1,2-Dichloroethane-d4	113	70-121
Toluene-d8	103	84-138
Bromofluorobenzene	106	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX302[8.5]	Diln Fac:	0.8772
Lab ID:	200684-002	Batch#:	133987
Matrix:	Soil	Sampled:	01/22/08
Units:	ug/Kg	Received:	01/22/08
Basis:	dry	Analyzed:	01/22/08

Moisture: 20%

Analyte	Result	RL	MDL
Benzene	ND	5.5	0.51
Toluene	ND	5.5	0.55
Ethylbenzene	ND	5.5	0.65
m,p-Xylenes	ND	5.5	1.5
o-Xylene	ND	5.5	0.65

Surrogate	%REC	Limits
Dibromofluoromethane	107	59-113
1,2-Dichloroethane-d4	113	70-121
Toluene-d8	102	84-138
Bromofluorobenzene	104	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC424995	Diln Fac:	1.000
Matrix:	Soil	Batch#:	133987
Units:	ug/Kg	Analyzed:	01/22/08

Analyte	Result	RL	MDL
Benzene	ND	5.0	0.46
Toluene	ND	5.0	0.50
Ethylbenzene	ND	5.0	0.60
m,p-Xylenes	ND	5.0	1.3
o-Xylene	ND	5.0	0.59

Surrogate	%REC	Limits
Dibromofluoromethane	97	59-113
1,2-Dichloroethane-d4	96	70-121
Toluene-d8	100	84-138
Bromofluorobenzene	106	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC424996	Diln Fac:	1.000
Matrix:	Soil	Batch#:	133987
Units:	ug/Kg	Analyzed:	01/22/08

Analyte	Spiked	Result	%REC	Limits
Benzene	50.00	52.25	105	65-135
Toluene	50.00	52.37	105	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	104	59-113
1,2-Dichloroethane-d4	100	70-121
Toluene-d8	99	84-138
Bromofluorobenzene	97	59-113

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX301[8.5]	Diln Fac:	0.9804
MSS Lab ID:	200684-001	Batch#:	133987
Matrix:	Soil	Sampled:	01/22/08
Units:	ug/Kg	Received:	01/22/08
Basis:	as received	Analyzed:	01/22/08

Type: MS Lab ID: QC425089

Analyte	MSS Result	Spiked	Result	%REC	Limits
Benzene	<0.4516	49.02	41.34	84	65-135
Toluene	<0.4887	49.02	41.82	85	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	108	59-113
1,2-Dichloroethane-d4	111	70-121
Toluene-d8	103	84-138
Bromofluorobenzene	103	59-113

Type: MSD Lab ID: QC425090

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	49.02	40.42	82	65-135	2	35
Toluene	49.02	40.60	83	65-135	3	35

Surrogate	%REC	Limits
Dibromofluoromethane	108	59-113
1,2-Dichloroethane-d4	111	70-121
Toluene-d8	101	84-138
Bromofluorobenzene	128 *	59-113

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Arsenic

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Analyte:	Arsenic	Batch#:	134015
Matrix:	Soil	Sampled:	01/22/08
Units:	mg/Kg	Received:	01/22/08
Diln Fac:	1.000	Prepared:	01/22/08

Field ID	Type	Lab ID	Result	RL	MDL	Basis	Moisture	Analyzed
1065EX301[8.5]	SAMPLE	200684-001	2.8	0.33	0.11	dry	19%	01/23/08
1065EX302[8.5]	SAMPLE	200684-002	2.2	0.33	0.11	dry	20%	01/23/08
	BLANK	QC425114	ND	0.29	0.096	as received		01/22/08

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Arsenic

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Analyte:	Arsenic	Diln Fac:	1.000
Field ID:	1065EX301[8.5]	Batch#:	134015
MSS Lab ID:	200684-001	Sampled:	01/22/08
Matrix:	Soil	Received:	01/22/08
Units:	mg/Kg	Prepared:	01/22/08

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Basis	Moisture	RPD	Lim	Analyzed
BS	QC425115		50.00	50.45	101	75-125	as received				01/22/08
BSD	QC425116		50.00	50.55	101	75-125	as received		0	30	01/23/08
MS	QC425117	2.757	56.63	48.92	82	75-125	dry	19%			01/23/08
MSD	QC425118		59.35	51.45	82	75-125	dry	19%	1	30	01/23/08

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Arsenic

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Analyte:	Arsenic	Basis:	dry
Field ID:	1065EX301[8.5]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	134015
MSS Lab ID:	200684-001	Sampled:	01/22/08
Lab ID:	QC425119	Received:	01/22/08
Matrix:	Soil	Analyzed:	01/23/08
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture %	Diff	Lim
2.757	0.3322	4.069	1.661	19%	NC	10

NC= Not Calculated
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Lead

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	134015
Matrix:	Soil	Sampled:	01/22/08
Units:	mg/Kg	Received:	01/22/08
Diln Fac:	1.000	Prepared:	01/22/08

Field ID	Type	Lab ID	Result	RL	MDL	Basis	Moisture	Analyzed
1065EX301[8.5]	SAMPLE	200684-001	6.9	0.21	0.071	dry	19%	01/23/08
1065EX302[8.5]	SAMPLE	200684-002	1.9	0.21	0.071	dry	20%	01/23/08
	BLANK	QC425114	ND	0.19	0.062	as received		01/22/08

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	1065EX301[8.5]	Batch#:	134015
MSS Lab ID:	200684-001	Sampled:	01/22/08
Matrix:	Soil	Received:	01/22/08
Units:	mg/Kg	Prepared:	01/22/08

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Basis	Moisture	RPD	Lim	Analyzed
BS	QC425115		100.0	97.92	98	75-125	as received				01/22/08
BSD	QC425116		100.0	97.25	97	75-125	as received		1	30	01/23/08
MS	QC425117	6.949	113.3	106.9	88	75-125	dry	19%			01/23/08
MSD	QC425118		118.7	308.9	254 *	75-125	dry	19%	94 *	30	01/23/08

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Analyte:	Lead	Basis:	dry
Field ID:	1065EX301[8.5]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	134015
MSS Lab ID:	200684-001	Sampled:	01/22/08
Lab ID:	QC425119	Received:	01/22/08
Matrix:	Soil	Analyzed:	01/23/08
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff		Lim
6.949	0.2141	9.026	1.070	19%	30	*	10

*= Value outside of QC limits; see narrative
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Moisture

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	134012
Matrix:	Soil	Sampled:	01/22/08
Units:	%	Received:	01/22/08
Diln Fac:	1.000	Analyzed:	01/22/08

Field ID	Lab ID	Result	RL
1065EX301[8.5]	200684-001	19	1
1065EX302[8.5]	200684-002	20	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	200684	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	134012
MSS Lab ID:	200583-003	Sampled:	01/15/08
Lab ID:	QC425111	Received:	01/17/08
Matrix:	Soil	Analyzed:	01/22/08

MSS Result	Result	RL	RPD	Lim
15.98	16.76	1.000	5	15

RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 201726
ANALYTICAL REPORT

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065 Presidio
Petaluma, CA 94954	Level : III

Sample ID	Lab ID
1065EX303[7.0]	201726-001
1065EX304[7.5]	201726-002
DUP030608	201726-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 03/17/2008
Project Manager

Signature: _____ Date: 03/17/2008
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**201726**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**03/06/08**
Samples Received:	**03/06/08**

This hardcopy data package contains sample and QC results for three soil samples, requested for the above referenced project on 03/06/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

5035 samples not analyzed within 48 hours were frozen. Low recoveries were observed for gasoline C7-C12 in the MS/MSD of 1065EX303[7.0] (lab # 201726-001); the LCS was within limits. High RPD was also observed for gasoline C7-C12; this analyte was not detected at or above the RL in the associated samples. The requested MS/MSD was analyzed a total of three times on two different instruments with similar results, indicating that this outlier was due to matrix affect. Low surrogate recoveries were observed for bromofluorobenzene (FID) and trifluorotoluene (FID) in the MS/MSD of 1065EX303[7.0] (lab # 201726-001). High surrogate recovery was observed for trifluorotoluene (FID) in the LCS for batch 135723; the corresponding bromofluorobenzene (FID) surrogate recovery was within limits. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 135723; this analyte was not detected in samples at or above the RL. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 135798; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

5035 samples not analyzed within 48 hours were frozen. Low response was observed for Freon 12 in the ICV analyzed 02/08/08 13:20; this analyte was not detected at or above the RL in the associated samples. High responses were observed for a number of analytes; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b". High responses were observed for trichlorofluoromethane and Freon 12 in the CCV analyzed 03/06/08 12:59; these analytes were not detected at or above the RL in the associated samples. High surrogate recoveries were observed for dibromofluoromethane in 1065EX303[7.0] (lab # 201726-001), 1065EX304[7.5] (lab # 201726-002), and the MS/MSD of 1065EX303[7.0] (lab # 201726-001). High surrogate recovery was observed for bromofluorobenzene in DUP030608 (lab # 201726-003); no target analytes were detected at or above RL in the sample. No other analytical problems were encountered.

#
40.0

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	201726
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065 Presidio
Request Date:	03/06/08
Samples Received:	03/06/08

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
High response was observed for indeno(1,2,3-cd)pyrene in the CCV analyzed 03/07/08 10:26; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b". No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for antimony in the MS/MSD of 1065EX303[7.0] (lab # 201726-001); the BS/BSD were within limits, and the associated RPD was within limits. High recoveries were observed for copper and zinc in the MSD of 1065EX303[7.0] (lab # 201726-001); the BS/BSD were within limits. High RPD was observed for copper, lead, and zinc in the MS/MSD of 1065EX303[7.0] (lab # 201726-001); the RPD was acceptable in the BS/BSD. High recovery was observed for mercury in the MSD of 1065EX303[7.0] (lab # 201726-001); the BS/BSD were within limits, and the associated RPD was within limits. A number of analytes were detected between the MDL and the RL in the method blank for batch 135681; these analytes were either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

#
40.0

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3833

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

201726

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Bldg 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Bldg 1065 - Ex1
JOB NO.: 408407511502.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE:

	TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	VOCs (8260B)	TPHg	TPHd+TPHmo-W-silica gel	PAHs (8270 SIM)	Title 22 metals	FOR LAB USE ONLY
1	800	X		SO	1065EX303[7.0]	50N67E-7	+MS/MSD	14	X	X	X	X	X	
2	905	X		SO	1065EX304[7.5]	54N46E-7.5		7	X	X	X	X	X	
3	800	X		SO	DUP030608	DUP 303		7	X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	3/6/08 1220		3/6/08 1220			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS
Lvl 3 Data Validation
48 hr TAT
run MS/MSD on 1065EX303

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 201726 Date Received 3/6/08 Number of coolers 1
Client MacTec Project Presidio Trust

Date Opened 3/6/08 By (print) KWellbrock (sign) KWellbrock
Date Logged in 3-6-08 By (print) Faith Nichols (sign) Faith

1. Did cooler come with a shipping slip (airbill, etc)?..... YES (NO)
Shipping info_____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
How many _____ Name_____ Date_____
2B. Were custody seals intact upon arrival? ..... YES NO (N/A)
3. Were custody papers dry and intact when received?..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)?..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form)..... (YES) NO
6. Indicate the packing in cooler: (if other, describe)_____

☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... (YES) NO N/A
Type of ice used: ☒ WET ☐ BLUE ☐ NONE Temp(°C) 6.0
☒ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... (YES) NO
If YES, what time were they transferred to freezer? 3/6 1400
9. Did all bottles arrive unbroken/unopened?..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... YES NO N/A
15. Are bubbles absent in VOA samples?..... (YES) NO N/A
16. Was the client contacted concerning this sample delivery?..... YES NO
If YES, Who was called?_____ By_____ Date:_____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

TPH-Purgeable Data (EPA 8015/5035)

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08
Diln Fac:	1.000		

Field ID:	1065EX303[7.0]	Moisture:	16%
Type:	SAMPLE	Batch#:	135723
Lab ID:	201726-001	Analyzed:	03/07/08
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.016 J	0.18	0.015

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	104	65-135

Field ID:	1065EX304[7.5]	Moisture:	15%
Type:	SAMPLE	Batch#:	135723
Lab ID:	201726-002	Analyzed:	03/08/08
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.083 J	0.21	0.017

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	65-135
Bromofluorobenzene (FID)	109	65-135

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08
Diln Fac:	1.000		

Field ID:	DUP030608	Moisture:	20%
Type:	SAMPLE	Batch#:	135798
Lab ID:	201726-003	Analyzed:	03/10/08
Basis:	dry		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.042 J	0.22	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	103	65-135

Type:	BLANK	Batch#:	135723
Lab ID:	QC431847	Analyzed:	03/07/08
Basis:	as received		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.11 J	1.0	0.080

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	65-135
Bromofluorobenzene (FID)	94	65-135

Type:	BLANK	Batch#:	135798
Lab ID:	QC432147	Analyzed:	03/10/08
Basis:	as received		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.14 J	1.0	0.074

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	65-135
Bromofluorobenzene (FID)	81	65-135

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC431850	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135723
Units:	mg/Kg	Analyzed:	03/07/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.284	93	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	150 *	65-135
Bromofluorobenzene (FID)	110	65-135

*= Value outside of QC limits; see narrative

00010

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC432148	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135798
Units:	mg/Kg	Analyzed:	03/10/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.006	100	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	65-135
Bromofluorobenzene (FID)	117	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX303[7.0]	Diln Fac:	1.000
MSS Lab ID:	201726-001	Batch#:	135723
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/08/08

Type: MS Moisture: 16%
Lab ID: QC431851

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.01605	1.890	0.01096	0 *	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	0 *	65-135
Bromofluorobenzene (FID)	1 *	65-135

Type: MSD Moisture: 16%
Lab ID: QC431852

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	17.77	0.008543	0 *	75-125	169 *	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	0 *	65-135
Bromofluorobenzene (FID)	0 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCVOA Soil: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201726 GCVOA Soil
EPA 8015B

Inst : GC04 Name : GC04 TVH 166
Calnum : 307240439001 Cal Date : 16-JUN-2007

ICV 307240439025 (166_025 16-JUN-2007) stds: S6393 (1000X), S6435 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	4397.8	4535.9	10000	10310	ng	3	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC04 | Name : tvhBTXE055 | Reviewer : LH
Calnum : 308079642001 | Date : 24-FEB-2008 10:44
Units : ng | X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	055_005	308079642005	BTXE_1	24-FEB-2008 10:44	S7770 (1000X), S8275 (5000X)
L2	055_006	308079642006	MBTXE_2	24-FEB-2008 11:22	S7769 (1250X), S8275 (5000X)
L3	055_007	308079642007	MBTXE_3	24-FEB-2008 12:00	S7769 (500X), S8275 (5000X)
L4	055_008	308079642008	MBTXE_4	24-FEB-2008 12:37	S7769 (125X), S8275 (5000X)
L5	055_009	308079642009	MBTXE_5	24-FEB-2008 13:21	S7768 (1000X), S8275 (5000X)
L6	055_010	308079642010	MBTXE_6	24-FEB-2008 13:59	S7768 (500X), S8275 (5000X)
L7	055_011	308079642011	MBTXE_7	24-FEB-2008 14:37	S7768 (250X), S8275 (5000X)
L8	055_012	308079642012	MTBE_7	24-FEB-2008 15:15	S7767 (500X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3717.3	3557.5	3599.1	3511.1	3726.8	3635.7	3796.3	3565.2	AVRG		2.75E-4		3638.6	3	0.995	20	
Bromofluorobenzene (FID)	A	2198.7	2097.3	2130.9	2126.8	2431.8	2264.4	2423.6	2130.4	AVRG		4.49E-4		2225.5	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	2	450.0	-2	450.0	-1	450.0	-4	450.0	2	450.0	0	450.0	4	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-1	450.0	-6	450.0	-4	450.0	-4	450.0	9	450.0	2	450.0	9	450.0	-4

MRC 02/25/08 : MTBE Fails RSD on C; only B will be used to report MTBE.

Analyst: MRC Date: 02/25/08 Reviewer: LH Date: 02/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC19
Calnum : 348076830001
Units : ng

Name : GC19 MBTXE/SURR 053
Date : 23-FEB-2008 03:36
X Axis : R

Reviewer : LH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	053_028	348076830028	BTXE_1	23-FEB-2008 03:36	S7770 (1000X), S8275 (5000X)
L2	053_029	348076830029	MBTXE_2	23-FEB-2008 04:14	S7769 (1250X), S8275 (5000X)
L3	053_030	348076830030	MBTXE_3	23-FEB-2008 04:51	S7769 (500X), S8275 (5000X)
L4	053_031	348076830031	MBTXE_4	23-FEB-2008 05:29	S7769 (125X), S8275 (5000X)
L5	053_032	348076830032	MBTXE_5	23-FEB-2008 06:06	S7768 (1000X), S8275 (5000X)
L6	053_033	348076830033	MBTXE_6	23-FEB-2008 06:44	S7768 (500X), S8275 (5000X)
L7	053_034	348076830034	MBTXE_7	23-FEB-2008 07:21	S7768 (250X), S8275 (5000X)
L8	053_035	348076830035	MTBE_7	23-FEB-2008 07:59	S7767 (500X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	1996.9	2003.4	1893.6	1854.9	1881.6	1997.0	1865.0	1922.5	AVRG		5.19E-4		1926.9	3	0.995	20	
Bromofluorobenzene (FID)	A	889.56	908.38	822.03	822.56	889.57	957.03	945.06	858.88	AVRG		0.00113		886.63	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	4	450.0	4	450.0	-2	450.0	-4	450.0	-2	450.0	4	450.0	-3	450.0	0
Bromofluorobenzene (FID)	A	450.0	0	450.0	2	450.0	-7	450.0	-7	450.0	0	450.0	8	450.0	7	450.0	-3

PDM 02/23/08 : MTBE fails low on Channel C, this analyte will only be reported from Channel B

Analyst: PDM Date: 02/23/08 Reviewer: LH Date: 02/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

3480768300

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCVOA Soil: EPA 8015B

Inst : GC19
Calnum : 348094534004
Units : ng

Name : tvh065
Date : 05-MAR-2008 18:42
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	065_006	348094534006	TVH 2	05-MAR-2008 18:42	S7783 (1000X), S8275 (5000X)
L2	065_007	348094534007	TVH 3	05-MAR-2008 19:20	S7782 (1000X), S8275 (5000X)
L3	065_008	348094534008	TVH 4	05-MAR-2008 19:57	S7781 (2000X), S8275 (5000X)
L4	065_009	348094534009	TVH 5	05-MAR-2008 20:35	S7781 (1000X), S8275 (5000X)
L5	065_015	348094534015	TVH 1	06-MAR-2008 10:40	S7784 (1000X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1581.3	1640.1	1661.5	1687.8	1735.6	AVRG		6.02E-4		1661.3	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	2500	-5	10000	-1	25000	0	50000	2	250.0	4

CP 03/06/08 : Use for C7-C12 ONLY

Analyst: CP Date: 03/06/08 Reviewer: RH Date: 03/07/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201726 GCVOA Soil
EPA 8015B

Inst : GC19
Calnum : 348094534004

Name : tvh065
Cal Date : 05-MAR-2008

ICV 348094534016 (065_016 06-MAR-2008) stds: S8283 (1000X), S8275 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1661.3	1635.6	10000	9845	ng	-2	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 201726 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : QC431850 IDF : 1.0
Seqnum : 308097531004.1 File : 067_004 Time : 07-MAR-2008 19:44
Standards: S8447 (1000X), S8275 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4082.8	10000	9284	ng	-7	15	u
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	5466.0	450.0	676.0	ng	**50**	15	c+ u
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2450.7	450.0	495.5	ng	10	15	u

MRC 03/10/08 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard. [general version]

Analyst: CP Date: 03/10/08 Reviewer: EAH Date: 03/10/08

+=high bias c=CCV u=use

308097531004.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308097531018 File : 067_018 Time : 08-MAR-2008 04:39
Standards: S8447 (666.7X), S8275 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3799.0	15000	12960	ng	-14	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	6424.4	450.0	794.5	ng	**77**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2680.1	450.0	541.9	ng	**20**	15	c+

MRC 03/10/08 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

MRC 03/10/08 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: MRC Date: 03/10/08 Reviewer: EAH Date: 03/10/08

+=high bias c=CCV

308097531018

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : BTXE IDF : 1.0
Seqnum : 308097531031 File : 067_031 Time : 08-MAR-2008 12:50
Cal : 308079642001 Caldate : 24-FEB-2008
Standards: S8449 (1000X), S8641 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	3638.6	3410.3	504.0	472.4	ng	-6	15	
Bromofluorobenzene (FID)	A	2225.5	2028.5	504.0	459.4	ng	-9	15	

MRC 03/10/08 : Surrogates within control limits.

Analyst: MRC Date: 03/10/08 Reviewer: EAH Date: 03/10/08

308097531031

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308097531032 File : 067_032 Time : 08-MAR-2008 13:28
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4017.5	10000	9135	ng	-9	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	5031.5	504.0	696.9	ng	**38**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2393.4	504.0	542.0	ng	8	15	

MRC 03/10/08 : Surrogates within control limits.

Analyst: MRC Date: 03/10/08 Reviewer: EAH Date: 03/10/08

+=high bias c=CCV

308097531032

CURTIS & TOMPKINS SPIKE USER REPORT FOR 201726 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC432148 IDF : 1.0
Seqnum : 348101840004.2 File : 070_004 Time : 10-MAR-2008 13:28
Standards: S8447 (2000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1663.2	5000	5006	ng	0	15	u
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2253.2	504.0	589.4	ng	**17**	15	c+ u
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1033.2	504.0	587.3	ng	**17**	15	c+ u

PDM 03/11/08 [Trifluorotoluene (FID) A]: Passes control limits. [general version]

PDM 03/11/08 [Bromofluorobenzene (FID) A]: Passes control limits. [general version]

Analyst: MMP Date: 03/11/08 Reviewer: MRC Date: 03/11/08

+=high bias c=CCV u=use

348101840004.2

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 348101840013 File : 070_013 Time : 11-MAR-2008 16:52
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1587.0	10000	9553	ng	-4	15	
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2298.8	504.0	601.3	ng	**19**	15	c+
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1067.8	504.0	607.0	ng	**20**	15	c+

PDM 03/11/08 : PID surrogates are not applicable.

PDM 03/11/08 [Trifluorotoluene (FID) A]: Passes control limits.

PDM 03/11/08 [Bromofluorobenzene (FID) A]: Passes control limits.

PDM 03/11/08 : only Gas C7-C12 reported

Analyst: PDM Date: 03/11/08 Reviewer: LH Date: 03/11/08

+=high bias c=CCV

348101840013

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307240439

Instrument : GC04
Method : EPA 8015B, EPA 8021B
Begun : 06/15/07 10:59
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	166_001	X	CMARK			06/15/07 10:59	1.0	1 2
002	166_002	CCV	TVH			06/15/07 11:37	1.0	3 2
003	166_003	X	CCV			06/15/07 12:15	1.0	4 2
004	166_004	X	IB			06/15/07 13:08	1.0	2
005	166_005	IB	CALIB			06/15/07 15:44	1.0	2
006	166_006	ICAL	BTXE_1			06/15/07 16:22	1.0	5 2
007	166_007	ICAL	BTXE_2			06/15/07 17:00	1.0	6 2
008	166_008	ICAL	BTXE_3			06/15/07 17:38	1.0	6 2
009	166_009	X	ICAL			06/15/07 18:16	1.0	6 2
010	166_010	ICAL	BTXE_5			06/15/07 18:54	1.0	7 2
011	166_011	ICAL	BTXE_6			06/15/07 19:31	1.0	7 2
012	166_012	ICAL	BTXE_7			06/15/07 20:09	1.0	7 2
013	166_013	ICAL	MTBE_7			06/15/07 20:47	1.0	8 2
014	166_014	X	IB			06/15/07 21:25	1.0	2
015	166_015	X	ICV			06/15/07 22:03	1.0	9 2
016	166_016	X	ICV			06/15/07 22:41	1.0	9 2
017	166_017	X	IB			06/15/07 23:19	1.0	2
018	166_018	IB	CALIB			06/15/07 23:57	1.0	2
019	166_019	ICAL	TVH 1			06/16/07 00:35	1.0	10 2
020	166_020	ICAL	TVH 2			06/16/07 01:13	1.0	11 2
021	166_021	ICAL	TVH 3			06/16/07 01:51	1.0	12 2
022	166_022	ICAL	TVH 4			06/16/07 02:29	1.0	13 2
023	166_023	ICAL	TVH 5			06/16/07 03:07	1.0	13 2
024	166_024	X	IB			06/16/07 03:45	1.0	2
025	166_025	ICV	TVH			06/16/07 04:23	1.0	3 2
026	166_026	ICV	TVH			06/16/07 05:01	1.0	3 2
027	166_027	X	IB			06/16/07 05:39	1.0	2
028	166_028	CMARKER				06/16/07 06:17	1.0	1 2
030	166_030	ICAL	BTXE_4			06/18/07 11:26	1.0	6 2
031	166_031	X	IB			06/18/07 12:04	1.0	2
032	166_032	ICV	MBTXE			06/18/07 12:42	1.0	9 2
033	166_033	IB	CALIB			06/18/07 13:30	1.0	2
034	166_034	ICAL	TFT/BFB_1			06/18/07 14:14	1.0	14
035	166_035	ICAL	TFT/BFB_2			06/18/07 14:54	1.0	15
036	166_036	ICAL	TFT/BFB_3			06/18/07 15:48	1.0	16
037	166_037	ICAL	TFT/BFB_4			06/18/07 16:37	1.0	17
038	166_038	ICAL	TFT/BFB_5			06/18/07 17:20	1.0	18

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Standards used: 1=S6383 2=S6435 3=S6393 4=S5943 5=S6305 6=S6304 7=S6303 8=S6302 9=S6204 10=S5937 11=S5936 12=S5935 13=S5934 14=S5951 15=S5952 16=S5953 17=S5954 18=S5955

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 308079642

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 02/24/08 07:22
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	055_001	X	CMARK			02/24/08 07:22	1.0	1 2	
002	055_002	CCV	TVH			02/24/08 08:00	1.0	3 2	
003	055_003	X	IB			02/24/08 08:50	1.0	2	
004	055_004	IB	IB			02/24/08 10:07	1.0	2	
005	055_005	ICAL	BTXE_1			02/24/08 10:44	1.0	4 2	
006	055_006	ICAL	MBTXE_2			02/24/08 11:22	1.0	5 2	
007	055_007	ICAL	MBTXE_3			02/24/08 12:00	1.0	5 2	
008	055_008	ICAL	MBTXE_4			02/24/08 12:37	1.0	5 2	
009	055_009	ICAL	MBTXE_5			02/24/08 13:21	1.0	6 2	
010	055_010	ICAL	MBTXE_6			02/24/08 13:59	1.0	6 2	
011	055_011	ICAL	MBTXE_7			02/24/08 14:37	1.0	6 2	
012	055_012	ICAL	MTBE_7			02/24/08 15:15	1.0	7 2	
013	055_013	IB	IB			02/24/08 15:52	1.0	2	
014	055_014	X	MBTXE			02/24/08 16:30	1.0	8 2	
015	055_015	ICV	MBTXE			02/24/08 17:08	1.0	8 2	

Analyst: MRC Date: 02/25/08 Reviewer: LH Date: 02/25/08

Standards used: 1=S8201 2=S8275 3=S8391 4=S7770 5=S7769 6=S7768 7=S7767 8=S8465

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 308097531

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 03/07/08 17:31
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	067_001	X	IB			03/07/08 17:31	1.0	1
002	067_002	X	IB			03/07/08 18:09	1.0	1
003	067_003	X	CCV			03/07/08 19:07	1.0	2 1
004	067_004	CCV/LCS	QC431850	Soil	135723	03/07/08 19:44	1.0	3 1
005	067_005	CCV/LCS	QC431849	Soil	135723	03/07/08 20:22	1.0	2 1
006	067_006	X	CCV			03/07/08 21:00	1.0	3 1
007	067_007	X	CMARK			03/07/08 21:38	1.0	4 1
008	067_008	BLANK	QC431847	Soil	135723	03/07/08 22:16	1.0	1
009	067_009	MSS	201726-001	Soil	135723	03/07/08 22:53	1.0	1
010	067_010	MS	QC431851	Soil	135723	03/07/08 23:31	1.0	1
011	067_011	MSD	QC431852	Soil	135723	03/08/08 00:09	1.0	1
012	067_012	SAMPLE	201726-002	Soil	135723	03/08/08 00:47	1.0	1
013	067_013	SAMPLE	201726-003	Soil	135723	03/08/08 01:30	1.0	1
014	067_014	X	IB			03/08/08 02:08	1.0	1
015	067_015	SAMPLE	201743-001	Soil	135723	03/08/08 02:46	1.0	1
016	067_016	SAMPLE	201743-002	Soil	135723	03/08/08 03:23	1.0	1
017	067_017	X	CCV			03/08/08 04:01	1.0	2 1
018	067_018	CCV	TVH			03/08/08 04:39	1.0	3 1
019	067_019	CCV	BTXE			03/08/08 05:16	1.0	2 1
020	067_020	X	CCV			03/08/08 05:54	1.0	3 1
021	067_021	SAMPLE	201743-003	Soil	135723	03/08/08 06:32	1.0	1
022	067_022	SAMPLE	201743-004	Soil	135723	03/08/08 07:09	1.0	1
023	067_023	SAMPLE	201743-005	Soil	135723	03/08/08 07:47	1.0	1
024	067_024	SAMPLE	201743-006	Soil	135723	03/08/08 08:24	1.0	1
025	067_025	SAMPLE	201743-007	Soil	135723	03/08/08 09:02	1.0	1
026	067_026	SAMPLE	201743-008	Soil	135723	03/08/08 09:41	1.0	1
027	067_027	SAMPLE	201743-009	Soil	135723	03/08/08 10:19	1.0	1
028	067_028	SAMPLE	201743-010	Soil	135723	03/08/08 10:56	1.0	1
029	067_029	MS	QC431851	Soil	135723	03/08/08 11:34	1.0	3 1
030	067_030	MSD	QC431852	Soil	135723	03/08/08 12:12	1.0	3 1
031	067_031	CCV	BTXE			03/08/08 12:50	1.0	2 5
032	067_032	CCV	TVH			03/08/08 13:28	1.0	3 5
033	067_033	X	CCV			03/08/08 14:23	1.0	2 5
034	067_034	X	CCV			03/08/08 15:01	1.0	3 5
035	067_035	X	MEOH			03/08/08 15:46	1.0	5
036	067_036	SAMPLE	201711-001	Miscell.	135723	03/08/08 16:23	10000	5
037	067_037	X	IB			03/08/08 17:01	1.0	5
038	067_038	X	IB			03/08/08 17:38	1.0	5
039	067_039	X	IB			03/08/08 18:16	1.0	5
040	067_040	SAMPLE	201743-003	Soil	135723	03/08/08 18:54	1.0	5
041	067_041	SAMPLE	201726-003	Soil	135723	03/08/08 19:31	1.0	5
042	067_042	SAMPLE	201331-009	Soil	135723	03/08/08 20:09	5.0	5
043	067_043	SAMPLE	201743-008	Soil	135723	03/08/08 20:46	1.0	5
046	067_046	SAMPLE	201535-001	Miscell.	135723	03/08/08 22:39	5.0	5
047	067_047	SAMPLE	201535-001	Miscell.	135723	03/08/08 23:17	1.0	5
048	067_048	X	IB			03/08/08 23:54	1.0	5
049	067_049	X	CMARK			03/09/08 00:32	1.0	4 5
050	067_050	CCV	BTXE			03/09/08 01:09	1.0	2 5
051	067_051	CCV	TVH			03/09/08 01:47	1.0	3 5
052	067_052	X	CCV			03/09/08 03:24	1.0	2 5
053	067_053	X	CCV			03/09/08 04:02	1.0	3 5
054	067_054	?SAMPLE	201752-001		135725	03/09/08 04:40	100000	5

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 308097531

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 03/07/08 17:31
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
056	067_056	CCV	TVH			03/09/08 05:55	1.0	3 5	

Analyst: PDM Date: 03/11/08 Reviewer: _____ Date: _____

Standards used: 1=S8275 2=S8449 3=S8447 4=S8201 5=S8641

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348076830

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 02/22/08 08:30
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	053_001	X	CMARK			02/22/08 08:30	1.0	1 2	
002	053_002	CCV/LCS	QC429338	Soil	135092	02/22/08 09:07	1.0	3 2	2:BZME=5000
003	053_003	X	IB			02/22/08 09:59	1.0	2	
004	053_004	X	IB			02/22/08 10:48	1.0	2	
005	053_005	BLANK	QC429337	Soil	135092	02/22/08 11:26	1.0	2	
006	053_006	MSS	201306-002	Soil	135092	02/22/08 13:25	1.0	2	
007	053_007	SAMPLE	201331-001	Soil	135092	02/22/08 14:23	1.0	2	
008	053_008	SAMPLE	201331-002	Soil	135092	02/22/08 15:01	1.0	2	
009	053_009	SAMPLE	201331-003	Soil	135092	02/22/08 15:43	1.0	2	
010	053_010	SAMPLE	201331-004	Soil	135092	02/22/08 16:21	1.0	2	
011	053_011	MS	QC429339	Soil	135092	02/22/08 16:59	1.0	3 2	3:BZME=9000
012	053_012	MSD	QC429340	Soil	135092	02/22/08 17:36	1.0	3 2	3:BZME=8700
013	053_013	CCV	TVH			02/22/08 18:14	1.0	3 2	4:BZME=9900
014	053_014	X	CCV			02/22/08 18:51	1.0	3 2	
015	053_015	X	CMARK			02/22/08 19:29	1.0	1 2	
016	053_016	SAMPLE	201331-005	Soil	135092	02/22/08 20:06	1.0	2	
017	053_017	SAMPLE	201331-006	Soil	135092	02/22/08 20:44	1.0	2	
018	053_018	SAMPLE	201331-007	Soil	135092	02/22/08 21:21	1.0	2	
019	053_019	SAMPLE	201331-008	Soil	135092	02/22/08 21:59	1.0	2	
020	053_020	SAMPLE	201331-009	Soil	135092	02/22/08 22:36	1.0	2	
021	053_021	SAMPLE	201331-010	Soil	135092	02/22/08 23:14	1.0	2	
022	053_022	CCV	TVH			02/22/08 23:51	1.0	3 2	5:BZME=14000
023	053_023	X	CCV			02/23/08 00:29	1.0	3 2	
024	053_024	X	CMARK			02/23/08 01:06	1.0	1 2	
025	053_025	X	IB			02/23/08 01:44	1.0	2	
026	053_026	X	IB			02/23/08 02:21	1.0	2	
027	053_027	X	IB			02/23/08 02:59	1.0	2	
028	053_028	ICAL	BTXE_1			02/23/08 03:36	1.0	4 2	
029	053_029	ICAL	MBTXE_2			02/23/08 04:14	1.0	5 2	
030	053_030	ICAL	MBTXE_3			02/23/08 04:51	1.0	5 2	
031	053_031	ICAL	MBTXE_4			02/23/08 05:29	1.0	5 2	
032	053_032	ICAL	MBTXE_5			02/23/08 06:06	1.0	6 2	
033	053_033	ICAL	MBTXE_6			02/23/08 06:44	1.0	6 2	
034	053_034	ICAL	MBTXE_7			02/23/08 07:21	1.0	6 2	
035	053_035	ICAL	MTBE_7			02/23/08 07:59	1.0	7 2	
036	053_036	X	IB			02/23/08 08:36	1.0	2	
037	053_037	ICV	MBTXE			02/23/08 09:14	1.0	8 2	
038	053_038	X	MBTXE			02/23/08 10:46	1.0	8 2	
039	053_039	X	MBTXE			02/23/08 14:21	1.0	9 2	

Analyst: PDM Date: 02/23/08 Reviewer: LH Date: 02/25/08

Standards used: 1=S8201 2=S8275 3=S8391 4=S7770 5=S7769 6=S7768 7=S7767 8=S7868 9=S8465

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348094534

Instrument : GC19
Method : EPA 8015B, EPA 8021B
Begun : 03/05/08 15:34
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	065_001	X	IB			03/05/08 15:34	1.0	1
002	065_002	CMARKER				03/05/08 16:12	1.0	2 1
003	065_003	IB	IB			03/05/08 16:50	1.0	1
004	065_004	X	IB			03/05/08 17:27	1.0	1
005	065_005	X	TVH 1			03/05/08 18:05	1.0	3 1
006	065_006	ICAL	TVH 2			03/05/08 18:42	1.0	4 1
007	065_007	ICAL	TVH 3			03/05/08 19:20	1.0	5 1
008	065_008	ICAL	TVH 4			03/05/08 19:57	1.0	6 1
009	065_009	ICAL	TVH 5			03/05/08 20:35	1.0	6 1
010	065_010	X	IB			03/05/08 21:12	1.0	1
011	065_011	X	TVH			03/05/08 21:50	1.0	7 1
012	065_012	X	ICV			03/05/08 22:27	1.0	7 1
013	065_013	X	TVH 1			03/06/08 08:27	1.0	3 1
014	065_014	X	TVH			03/06/08 09:04	1.0	7 1
015	065_015	ICAL	TVH 1			03/06/08 10:40	1.0	3 1
016	065_016	ICV	TVH			03/06/08 11:18	1.0	7 1

Analyst: PDM Date: 03/06/08 Reviewer: MMP Date: 03/06/08

Standards used: 1=S8275 2=S8201 3=S7784 4=S7783 5=S7782 6=S7781 7=S8283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348101840

Instrument : GC19
Method : EPA 8015B, EPA 8021B
Begun : 03/10/08 10:48
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	070_001	X	IB			03/10/08 10:48	1.0	1
002	070_002	X	CMARK			03/10/08 12:13	1.0	2 1
003	070_003	X	CCV			03/10/08 12:51	1.0	3 1
004	070_004	CCV/LCS	QC432148	Soil	135798	03/10/08 13:28	1.0	4 1
005	070_005	BLANK	QC432147	Soil	135798	03/10/08 14:57	1.0	1
006	070_006	SAMPLE	201726-003	Soil	135798	03/10/08 17:20	1.0	1
007	070_007	MSS	201617-008	Soil	135798	03/10/08 20:53	1.0	1
008	070_008	SAMPLE	201748-001	Soil	135798	03/10/08 22:06	1.0	1
009	070_009	SAMPLE	201748-002	Soil	135798	03/11/08 10:49	1.0	1
012	070_012	SAMPLE	201743-003	Soil	135798	03/11/08 15:36	1.0	1
013	070_013	CCV	TVH			03/11/08 16:52	1.0	4 1

MRC 03/12/08 : This sequence did not finish. Instrument errors prevented running the 201660 job and the ms/msd in the subsequent bracket. There are no data files

Analyst: PDM Date: 03/11/08 Reviewer: MRC Date: 03/12/08

Standards used: 1=S8641 2=S8201 3=S8449 4=S8447

Sample/Core/Jar ID	Weight (g)		H_2SO_4 (?)	Comp (?)	Comments
201743-001 B	4.98		NO	NO	PdM 3/7/08
-002	3.85				
-003	5.58				
-004	3.75				
-005	4.93				
-006	4.92				
-007	5.61				
-008	5.55				
-009	5.05	5.52			
-010	PdM 3/5/08 5.52	4.48			
201726-001 G	4.48	6.44			
MS F		7.18			
MSD H		6.22			
-002 C		5.59			
-003 C		5.80			
201629-032A	1.1		NO	NO	PdM 3/8/08
201743-003 D	5.8				
201726-003 F	6.4				
MS 201726-001 I	6.3				
MSD J	6.7				
201585-001 C	1.1				
201743-002 C	3.9				
201743-008 D	4.61				
201726-003 G	5.80		No	No	MRC 3-10-08

Continued on Page

PdM — Signed
3/7/08 — Date
Read and Understood By
Signed
Date

PROJECT MeOH Extract log

Notebook No. BK2246

Continued From Page —

Date/Analyst	Sample ID/Core ID/Jar	Weight (g)	MeOH (ml)	Comments
PdM 3/1/08	201583-004 B	4.67	4.70	BJCT981 alias of 201488-011
	-009	5.40	5.40	PdM 4/1/08 -014
	-010	5.38	5.40	-016
		5.26	5.30	-017
	MeOH MB	—	5.0	BJCT981
	201310-001A	5.04	↓	↓
	200869-012A	4.97	↓	↓
CP 3/2/08	MeOH MB	—	5.0	BJCT981
↓	201583-003 C	4.88	4.90	↓ alias of 201488-010
PdM 3/4/08	MeOH MB	—	5.0	BJCT981
	201331-009 D	4.33	4.30	↓
	201533-007 ↓	3.85	3.40	↓
MRC 3-7-08	201629-007 A	5.04	5.0	BJ CT981
	014	4.99	5.0	↓
	019 ↓	5.03	5.0	↓
↓	MeOH MB	—	5.0	BJCT981
CP 3/7/08	MeOH MB	—	5.0	↓
↓	201711-001 A	4.56	4.6	BJCT981
PdM 3/8/08	201629-036 A	5.0	5.0	↓
↓	MeOH MB	—	↓	↓
↓	201535-001 C	5.0	5.0	↓
↓	201726-00K	6.7	6.70	↓

Continued on Page

Read and Understood By

PdM — Signed — 3/1/08 — Date — Signed — Date

Sample/Cake/Jar ID	Weight (g)		NaHSO4 (?)	Comp (?)	Comments
201743-001 B	4.98		NO	NO	PdM 3/7/08
-002	3.55				
-003	5.58				
-004	3.75				
-005	4.93				
-006	4.92				
-007	5.61				
-008	5.05				
-009	5.05	5.52			
-010	PdM 3/7/08 5.52	4.18			
201726-001 G	4.48	6.44			
MS F		7.18			
MSD H		6.22			
-002 C		5.59			
-003 C		5.80			
201629-032A	1.1		NO	NO	PdM 3/8/08
201743-003 D	5.8				
201726-003 F	6.4				
MS 201726-001 I	6.3				
MSD J	6.7				
201535-001 C	1.1				
201743-005 C	3.9				
201743-008 D	4.61				
201726-003 G	5.80		No	No	MRC 3-10-08
201660-001 A	4.94		No	No	MRC 3-10-08
002	5.21				
003	5.71				
004	5.86				
005	5.29				
006	5.65				
201748-001 B	9.9		No	No	MRC 3-10-08
002 B	9.6				
201617-008	0.9				
~~201617-MRC 3-10-08~~					
MS 201617-008 A	0.9				
MSD A	1.0				

Continued on Page

PdM 3/7/08
Signed Date

Read and Understood By
Signed Date

34
PROJECT MeOH Extract log

Notebook No. BK2246
Continued From Page —

PR

Date/Analyst	Sample ID/Core ID/Jar	Weight (g)	MeOH (ml)	Comments
PdM 3/1/08	201583 - 004 B	4.67	4.70	BJCT981 alias of 201488-011
	-005	5.40	5.40	PdM 3/6/08 -014
	-009	5.38	5.40	-016
	-010	5.26	5.30	-017
	MeOH MB	—	5.0	BJCT981
	201310 - 001 A	5.04	↓	↓
	200869 - 012 A	4.97	↓	↓
CP 3/2/08	MeOH MB	—	5.0	BJCT981
	201583-003 C	4.88	4.90	↓ alias of 201488-010
PdM 3/4/08	MeOH MB	—	5.0	BJCT981
	201381 - 009 D	4.33	4.30	↓
	201533 - 007 ↓	3.35	3.40	↓
MRC 3-7-08	201629-007 A	5.04	5.0	BJ CT981
	014	4.99	5.0	↓
	019 ↓	5.03	5.0	↓
	MeOH MB	—	5.0	↓
CP 3/7/08	MeOH MB	—	5.0	BJ CT981
	201711-001 A	4.56	4.6	↓
PdM 3/8/08	201629-036 A	5.0	5.0	BJ CT981
	MeOH MB	—	↓	↓
	201535-001 C	5.0	5.0	↓
	201726 - 001 K	6.7	6.70	↓
PdM 3/12/08	201660 - 001 C	6.68	6.70	BJCT981 / PdM 3/12/08 BJCV200
	MeOH MB	—	5.0	↓

Continued on Page

Read and Understood By

PdM — Signed — 3/1/08 — Date — Signed — Date

Project TVH/BTXE Soil Weight Log book Bk 2583

Continued from Page

Core / Sample / Jar ID	Weight (g)	Comp?	NaHSO4?	Comments
201726-001 N MS	6.3	No	No	MRC 3-10-08
↓ ↓ M MSD	6.6	↓	↓	↓
201834-001 B	1.01	No	No	MRC 3-10-08
MS ↓ ↓ ↓	0.97	↓	↓	↓
MSD ↓ ↓ ↓	0.96	↓	↓	↓
201617-008 A MS	0.91	No	No	MRC 3-11-08
↓ ↓ MSD	0.98	↓	↓	↓
201660-001 B	5.82	NO	NO	PdM 3/12/08
↓ -004 B	6.17	↓	↓	↓
201743-003 E	4.11	No	No	Visual checks to conf. com - MRC 3-12-08
201814-001 B	6.49	NO	NO	JDG 3/12/08
↓ 002	3.92	↓	↓	↓
↓ 003	5.18	↓	↓	↓
↓ 004	5.20	↓	↓	↓
↓ 005 ↓	4.13	↓	↓	↓
↓ 006 C	5.47	↓	↓	↓
201859-001	5.72	↓	↓	Alias 201814-007B
201900-001	5.94	↓	↓	Alias 201914-008B
201861-001	4.09	↓	↓	Alias 201914-009B
MS 201617-008 A	0.96	No	No	MRC 3-12-08
MSD ↓ ↓	1.02	↓	↓	↓
201765-001 A	0.96	No	No	MRC 3-12-08
MS ↓ ↓	1.00	↓	↓	↓
MSD ↓ ↓	0.98	↓	↓	↓

Continued on Page

Read and Understood By

PdM — Signed

3/12/08 — Date

Signed

Date

Curtis & Tompkins, Ltd.

TPH-Extractables Data (Soil)

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08
Diln Fac:	1.000		

Field ID:	1065EX303[7.0]	Batch#:	135772
Type:	SAMPLE	Prepared:	03/10/08
Lab ID:	201726-001	Analyzed:	03/10/08
Basis:	dry	Cleanup Method:	EPA 3630C
Moisture:	16%		

Analyte	Result	RL	MDL
Diesel C12-C24	0.16 J	1.2	0.16
Fuel Oil C24-C36	0.85 J	5.9	0.67

Surrogate	%REC	Limits
Hexacosane	93	65-135

Field ID:	1065EX304[7.5]	Batch#:	135640
Type:	SAMPLE	Prepared:	03/06/08
Lab ID:	201726-002	Analyzed:	03/07/08
Basis:	dry	Cleanup Method:	EPA 3630C
Moisture:	15%		

Analyte	Result	RL	MDL
Diesel C12-C24	0.20 J	1.2	0.16
Fuel Oil C24-C36	0.90 J	5.8	0.66

Surrogate	%REC	Limits
Hexacosane	80	65-135

Field ID:	DUP030608	Batch#:	135640
Type:	SAMPLE	Prepared:	03/06/08
Lab ID:	201726-003	Analyzed:	03/07/08
Basis:	dry	Cleanup Method:	EPA 3630C
Moisture:	20%		

Analyte	Result	RL	MDL
Diesel C12-C24	1.0 J	1.2	0.17
Fuel Oil C24-C36	5.4 J	6.2	0.71

Surrogate	%REC	Limits
Hexacosane	90	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08
Diln Fac:	1.000		

Type:	BLANK	Prepared:	03/06/08
Lab ID:	QC431516	Analyzed:	03/07/08
Basis:	as received	Cleanup Method:	EPA 3630C
Batch#:	135640		

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.26
Fuel Oil C24-C36	ND	5.0	0.52

Surrogate	%REC	Limits
Hexacosane	86	65-135

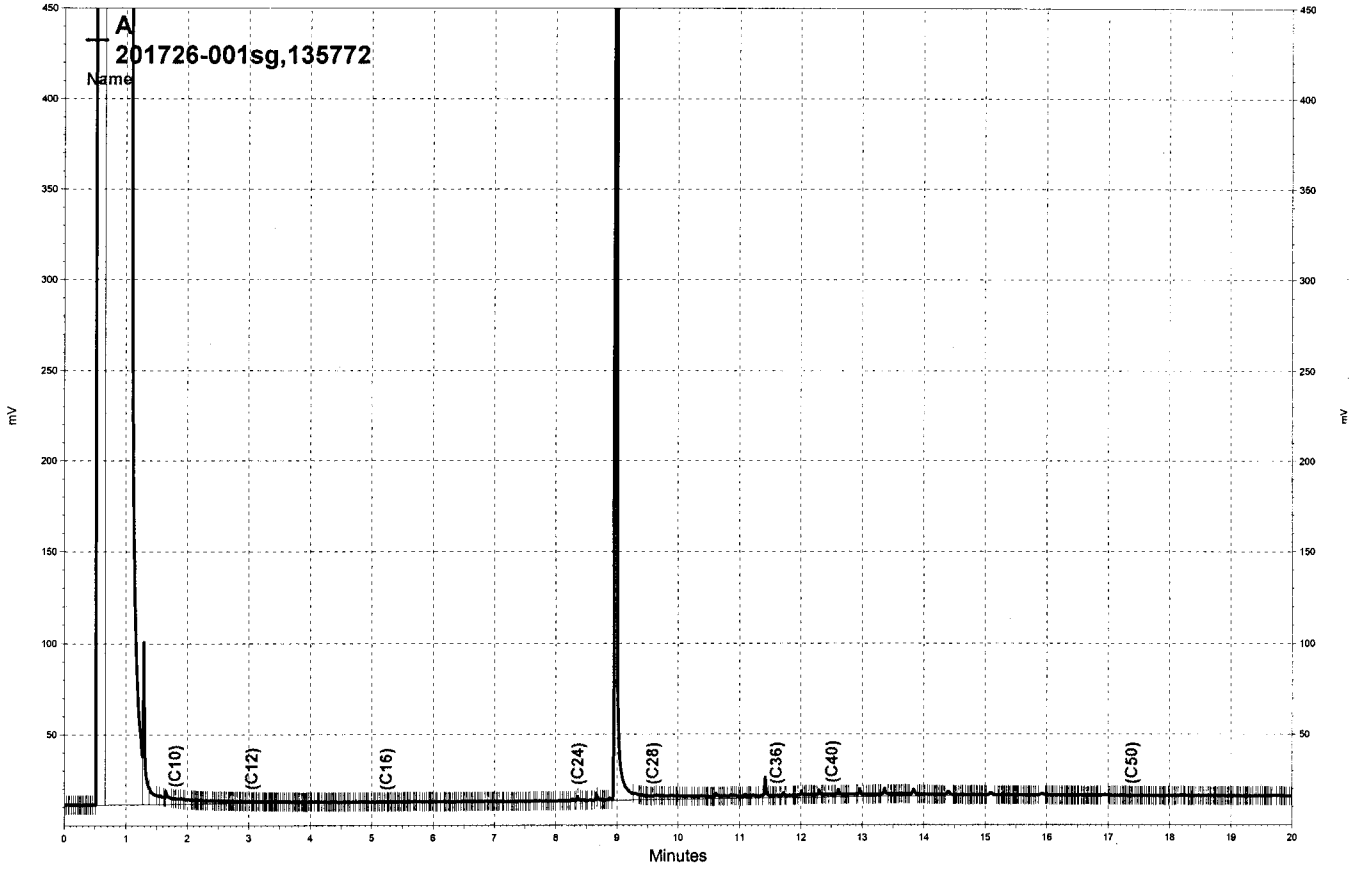
Type:	BLANK	Prepared:	03/10/08
Lab ID:	QC432034	Analyzed:	03/10/08
Basis:	as received	Cleanup Method:	EPA 3630C
Batch#:	135772		

Analyte	Result	RL	MDL
Diesel C12-C24	ND	0.99	0.27
Fuel Oil C24-C36	ND	5.0	0.65

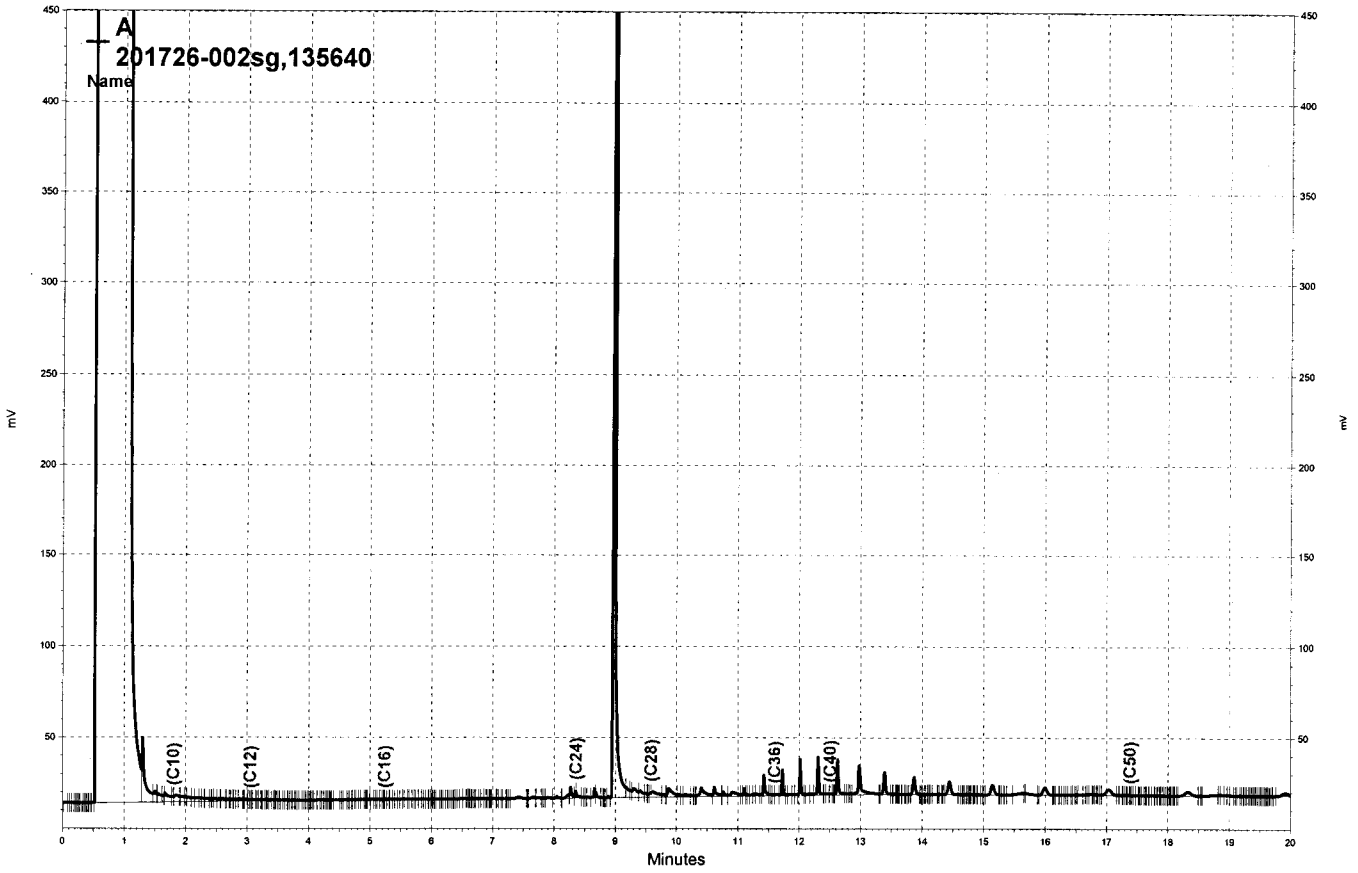
Surrogate	%REC	Limits
Hexacosane	101	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

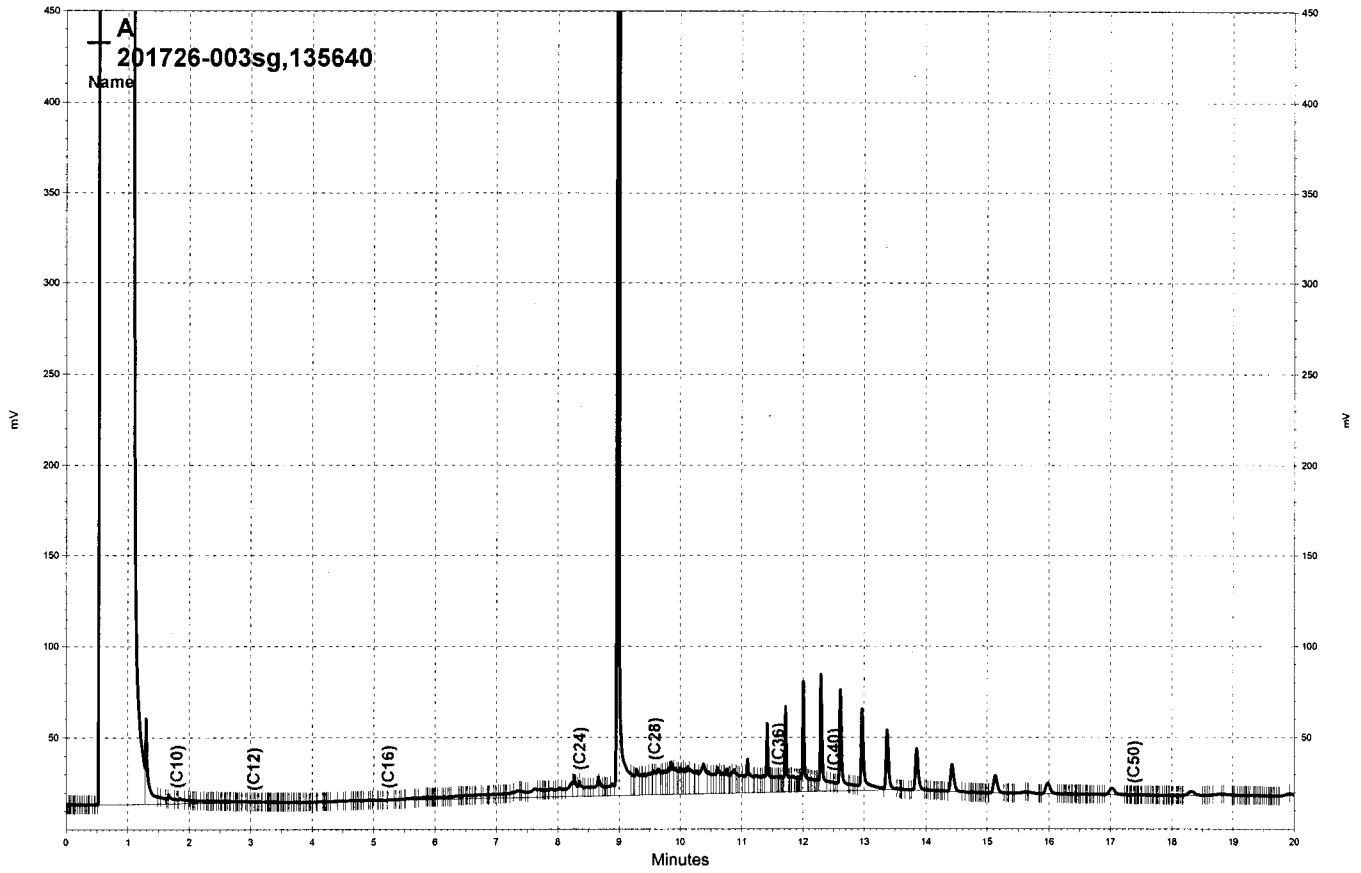
16.3

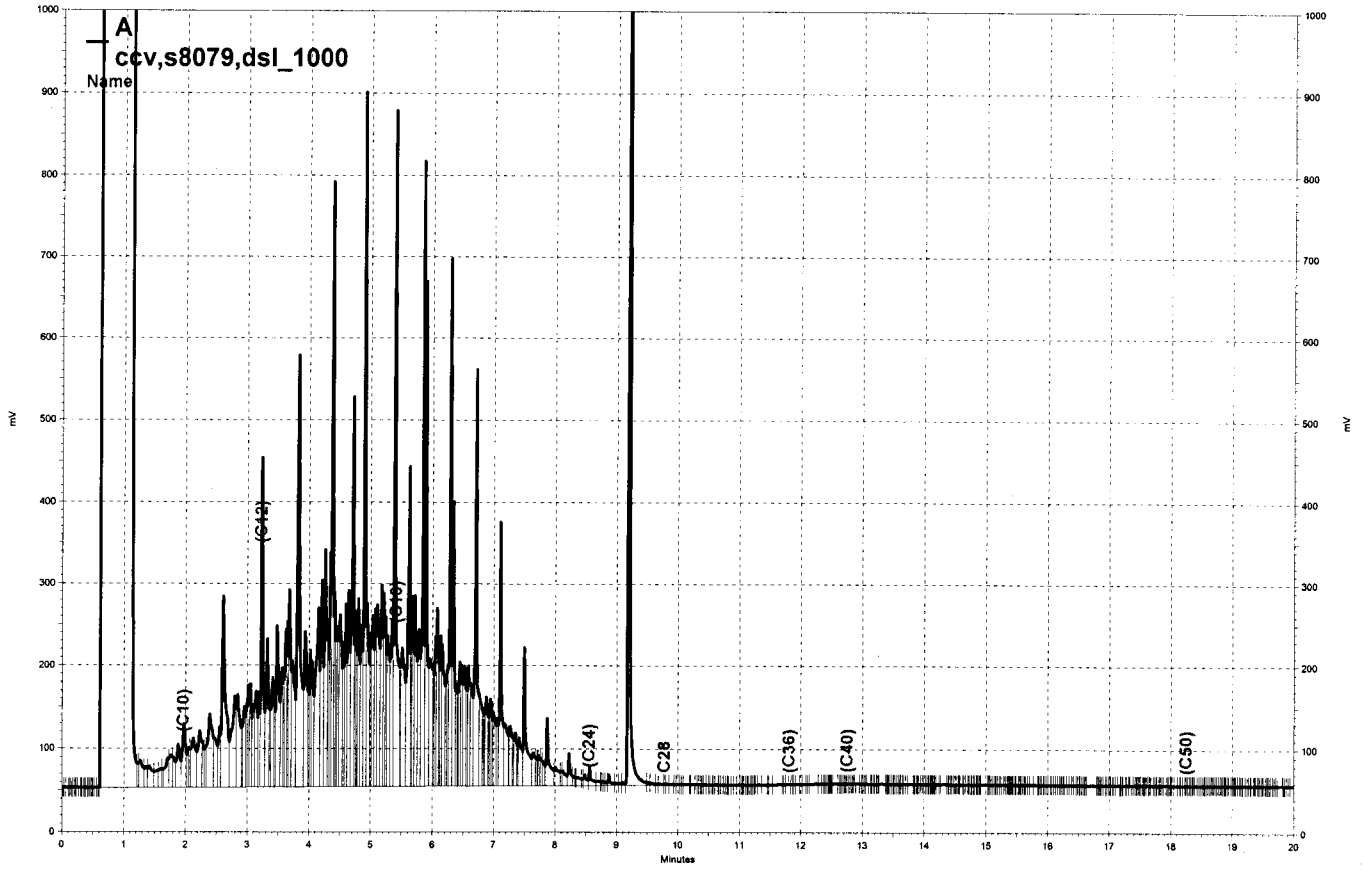


\\Lims\gdrive\ezchrom\Projects\GC17A\Data\070a017, A

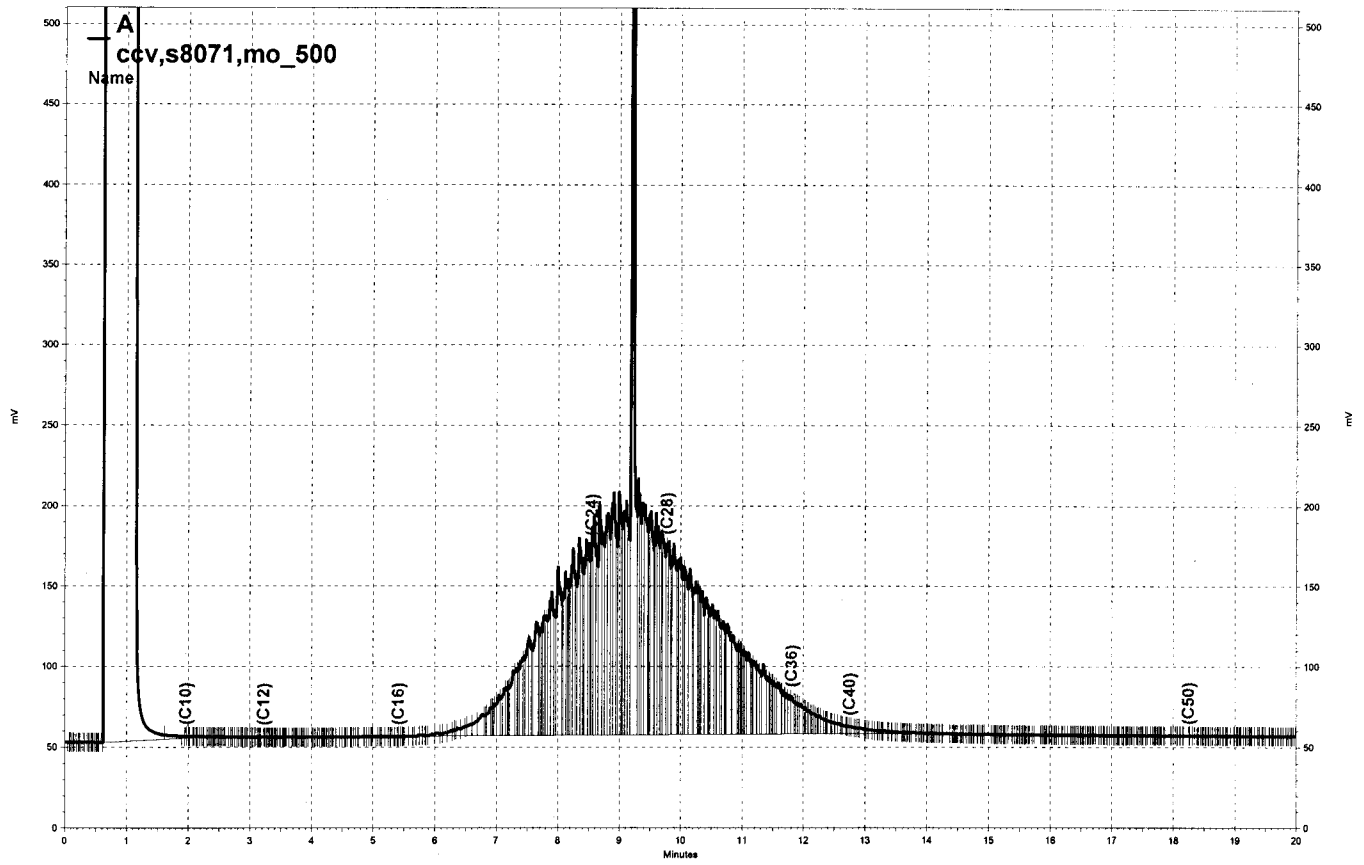


\\Lims\gdrive\ezchrom\Projects\GC17A\Data\066a042, A


A
201726-003sg,135640
Name
mV
mV
(C10)
(C12)
(C16)
(C24)
(C28)
(C36)
(C40)
(C50)
Minutes
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\066a043, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a036, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a037, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC431517	Batch#:	135640
Matrix:	Soil	Prepared:	03/06/08
Units:	mg/Kg	Analyzed:	03/07/08
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.88	45.37	91	65-135

Surrogate	%REC	Limits
Hexacosane	90	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX303[7.0]	Batch#:	135640
MSS Lab ID:	201726-001	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	mg/Kg	Prepared:	03/06/08
Basis:	dry	Analyzed:	03/07/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC431680
Moisture: 16%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	1.996	59.75	61.14	99	65-135

Surrogate	%REC	Limits
Hexacosane	97	65-135

Type: MSD
Lab ID: QC431681
Moisture: 16%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	59.25	59.59	97	65-135	2	35

Surrogate	%REC	Limits
Hexacosane	94	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC432035	Batch#:	135772
Matrix:	Soil	Prepared:	03/10/08
Units:	mg/Kg	Analyzed:	03/10/08
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.51	38.71	78	65-135

Surrogate	%REC	Limits
Hexacosane	86	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX303[7.0]	Batch#:	135772
MSS Lab ID:	201726-001	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	mg/Kg	Prepared:	03/10/08
Basis:	dry	Analyzed:	03/10/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC432036
Moisture: 16%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	0.1604	59.42	57.77	97	65-135

Surrogate	%REC	Limits
Hexacosane	82	65-135

Type: MSD
Lab ID: QC432037
Moisture: 16%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	59.36	56.15	94	65-135	3	35

Surrogate	%REC	Limits
Hexacosane	78	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117485208002
Units : mg/L

Name : mo
Date : 03-DEC-2007 10:59
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	336a019	117485208019	MO_50	03-DEC-2007 10:59	S6848
L2	336a020	117485208020	MO_250	03-DEC-2007 11:27	S6849
L3	336a021	117485208021	MO_500	03-DEC-2007 11:55	S6850
L4	336a022	117485208022	MO_1000	03-DEC-2007 12:22	S6851
L5	336a023	117485208023	MO_5000	03-DEC-2007 12:50	S6846
L6	336a024	117485208024	MO_7500	03-DEC-2007 13:18	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	30633	32953	34564	33746	33000	33191	AVRG		3.03E-5		33014	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-7	250.0	0	500.0	5	1000	2	5000	0	7500	1

Analyst: ZA Date: 12/04/07 Reviewer: LH Date: 12/05/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117485208003
Units : mg/L

Name : hex 5 pt.
Date : 03-DEC-2007 14:15
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	336a026	117485208026	HEX_5	03-DEC-2007 14:15	S7036
L2	336a027	117485208027	HEX_10	03-DEC-2007 14:43	S7037
L3	336a028	117485208028	HEX_25	03-DEC-2007 15:10	S7038
L4	336a029	117485208029	HEX_50	03-DEC-2007 15:39	S7039
L5	336a030	117485208030	HEX_100	03-DEC-2007 16:07	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	51772	50835	49957	51984	51023	AVRG		1.96E-5		51114	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	1	10.00	-1	25.00	-2	50.00	2	100.0	0

Analyst: ZA Date: 12/04/07 Reviewer: LH Date: 12/05/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 118030621001
Units : mg/L

Name : Diesel
Date : 21-JAN-2008 14:15
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	021a015	118030621015	DSL_100	21-JAN-2008 14:15	S7962
L2	021a016	118030621016	DSL_500	21-JAN-2008 14:43	S7963
L3	021a017	118030621017	DSL-1000	21-JAN-2008 15:12	S7964
L4	021a018	118030621018	DSL_5000	21-JAN-2008 15:40	S7960
L5	021a019	118030621019	DSL_7500	21-JAN-2008 16:09	S7965
L6	021a024	118030621024	DSL_10	21-JAN-2008 18:32	S7961

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	41129	42801	42843	44229	42562	31359	AVRG		2.45E-5		40820	12	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	100.0	1	500.0	5	1000	5	5000	8	7500	4	10.00	-23

Analyst: CP Date: 01/22/08 Reviewer: LH Date: 01/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201726 GCSV Soil
EPA 8015B

Inst : GC11A
Calnum : 118030621001

Name : Diesel
Cal Date : 21-JAN-2008

ICV 118030621025 (021a025 21-JAN-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	40820	41655	500.0	510.2	mg/L	2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 228081329001
Units : mg/L

Name : Hexacosane_56
Date : 25-FEB-2008 15:51
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	056_009	228081329009	HEX_5	25-FEB-2008 15:51	S8093
L2	056_010	228081329010	HEX_10	25-FEB-2008 16:19	S8094
L3	056_011	228081329011	HEX_25	25-FEB-2008 16:47	S8095
L4	056_012	228081329012	HEX_50	25-FEB-2008 17:15	S8096
L5	056_013	228081329013	HEX_100	25-FEB-2008 17:43	S8097
L6	056_014	228081329014	HEX_200	25-FEB-2008 18:11	S8098

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	74457	71715	73677	73130	67598	69767	AVRG		1.39E-5		71724	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	B	5.000	4	10.00	0	25.00	3	50.00	2	100.0	-6	200.0	-3

Analyst: JDG Date: 02/26/08 Reviewer: LH Date: 02/26/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 228081329004
Units : mg/L

Name : DSL_056
Date : 25-FEB-2008 19:08
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	056_016	228081329016	DSL_10	25-FEB-2008 19:08	S7961
L2	056_017	228081329017	DSL_100	25-FEB-2008 19:36	S7962
L3	056_018	228081329018	DSL_500	25-FEB-2008 20:04	S7963
L4	056_020	228081329020	DSL_5000	25-FEB-2008 20:59	S7960
L5	056_021	228081329021	DSL_7500	25-FEB-2008 21:27	S7965

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	B	41493	63058	63989	63390	61487	AVRG		1.70E-5		58683	16	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C12-C24	B	10.00	-29	100.0	7	500.0	9	5000	8	7500	5

Analyst: JDG Date: 02/27/08 Reviewer: LH Date: 02/27/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201726 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 228081329004

Name : DSL_056
Cal Date : 25-FEB-2008

ICV 228081329023 (056_023 25-FEB-2008) stds: S8069 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	58683	57720	500.0	491.8	mg/L	-2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763001
Units : mg/L

Name : DSL
Date : 18-OCT-2007 02:40
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b017	167416763017	DSL_10	18-OCT-2007 02:40	S6612
L2	289b018	167416763018	DSL_100	18-OCT-2007 03:07	S6613
L3	289b019	167416763019	DSL_500	18-OCT-2007 03:35	S6614
L4	289b020	167416763020	DSL_1000	18-OCT-2007 04:03	S6615
L5	289b021	167416763021	DSL_5000	18-OCT-2007 04:31	S6611
L6	289b022	167416763022	DSL_7500	18-OCT-2007 04:58	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	23294	26355	25904	26080	28152	26566	AVRG		3.84E-5		26059	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-11	100.0	1	500.0	-1	1000	0	5000	8	7500	2

Analyst: ATL Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201726 GCSV Soil
EPA 8015B

Inst : GC15B
Calnum : 167416763001

Name : DSL
Cal Date : 18-OCT-2007

ICV 167416763024 (289b024 18-OCT-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	26059	27062	500.0	519.3	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763002
Units : mg/L

Name : mo 5pt.
Date : 18-OCT-2007 07:18
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b027	167416763027	MO_50	18-OCT-2007 07:18	S6848
L2	289b028	167416763028	MO_250	18-OCT-2007 07:46	S6849
L3	289b029	167416763029	MO_500	18-OCT-2007 08:14	S6850
L4	289b030	167416763030	MO_1000	18-OCT-2007 08:42	S6851
L5	289b031	167416763031	MO_5000	18-OCT-2007 09:10	S6846

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	17688	20401	19302	18899	14749	AVRG		5.49E-5		18208	12	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	12	500.0	6	1000	4	5000	-19

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167479943001
Units : mg/L

Name : Hexacosane
Date : 30-NOV-2007 05:07
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	333b012	167479943012	HEX_5	30-NOV-2007 05:07	S7036
L2	333b013	167479943013	HEX_10	30-NOV-2007 05:35	S7037
L3	333b014	167479943014	HEX_25	30-NOV-2007 06:03	S7038
L4	333b015	167479943015	HEX_50	30-NOV-2007 06:30	S7039
L5	333b016	167479943016	HEX_100	30-NOV-2007 06:58	S7040
L6	333b017	167479943017	HEX_200	30-NOV-2007 07:26	S7041

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	25619	27078	26344	27012	26744	25833	AVRG		3.78E-5		26439	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-3	10.00	2	25.00	0	50.00	2	100.0	1	200.0	-2

Analyst: ATL Date: 11/30/07 Reviewer: LH Date: 11/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178033862001
Units : mg/L

Name : DSL
Date : 23-JAN-2008 16:34
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	023a009	178033862009	DSL_10	23-JAN-2008 16:34	S7961
L2	023a010	178033862010	DSL_100	23-JAN-2008 17:01	S7962
L3	023a011	178033862011	DSL_500	23-JAN-2008 17:29	S7963
L4	023a012	178033862012	DSL_1000	23-JAN-2008 17:56	S7964
L5	023a013	178033862013	DSL_5000	23-JAN-2008 18:23	S7960
L6	023a014	178033862014	DSL_7500	23-JAN-2008 18:51	S7965

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60742	57877	58443	64970	61981	60320	AVRG		1.65E-5		60722	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	0	100.0	-5	500.0	-4	1000	7	5000	2	7500	-1

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201726 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178033862001

Name : DSL
Cal Date : 23-JAN-2008

ICV 178033862016 (023a016 23-JAN-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	60722	66286	500.0	545.8	mg/L	9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178035189001
Units : mg/L

Name : HEX_024
Date : 24-JAN-2008 13:37
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a007	178035189007	HEX_5	24-JAN-2008 13:37	S8093
L2	024a008	178035189008	HEX_10	24-JAN-2008 14:04	S8094
L3	024a009	178035189009	HEX_25	24-JAN-2008 14:32	S8095
L4	024a010	178035189010	HEX_50	24-JAN-2008 14:59	S8096
L5	024a011	178035189011	HEX_100	24-JAN-2008 15:26	S8097

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	66995	65277	66174	65324	65865	AVRG		1.52E-5		65927	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	0	50.00	-1	100.0	0

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178035189002
Units : mg/L

Name : MO_024
Date : 24-JAN-2008 16:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a014	178035189014	MO_50	24-JAN-2008 16:49	S6848
L2	024a016	178035189016	MO_500	24-JAN-2008 17:44	S6850
L3	024a017	178035189017	MO_1000	24-JAN-2008 18:11	S6851
L4	024a018	178035189018	MO_5000	24-JAN-2008 18:38	S6846
L5	024a019	178035189019	MO_7500	24-JAN-2008 19:06	S6847
L6	024a022	178035189022	MO_250	25-JAN-2008 12:03	S6849

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	41900	45900	44141	41943	40193	51101	AVRG		2.26E-5		44196	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-5	500.0	4	1000	0	5000	-5	7500	-9	250.0	16

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_1000 IDF : 1.0
Seqnum : 118095822036 File : 066a036 Time : 07-MAR-2008 06:10
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	118030621001	21-JAN-2008	40820	44222	1000	1083	mg/L	8	15	
Hexacosane	117485208003	03-DEC-2007	51114	54881	50.00	53.68	mg/L	7	15	

Analyst: JDG Date: 03/07/08 Reviewer: LH Date: 03/07/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 118095822037 File : 066a037 Time : 07-MAR-2008 06:38
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117485208002	03-DEC-2007	33014	34832	500.0	527.5	mg/L	6	15	
Hexacosane	117485208003	03-DEC-2007	51114	53256	50.00	52.10	mg/L	4	15	

Analyst: JDG Date: 03/07/08 Reviewer: LH Date: 03/07/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 118095822050 File : 066a050 Time : 07-MAR-2008 13:14
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117485208002	03-DEC-2007	33014	33546	500.0	508.1	mg/L	2	15	
Hexacosane	117485208003	03-DEC-2007	51114	50243	50.00	49.15	mg/L	-2	15	

Analyst: JDG Date: 03/07/08 Reviewer: LH Date: 03/07/08

118095822050

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC11A Run Name : DSL_250 IDF : 1.0
Seqnum : 118095822051 File : 066a051 Time : 07-MAR-2008 13:42
Standards: S8077

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	118030621001	21-JAN-2008	40820	46703	250.0	286.0	mg/L	14	15	
Hexacosane	117485208003	03-DEC-2007	51114	53383	50.00	52.22	mg/L	4	15	

Analyst: JDG Date: 03/07/08 Reviewer: LH Date: 03/07/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
Seqnum : 228101200004 File : 070_004 Time : 10-MAR-2008 08:03
Standards: S8077

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	228081329004	25-FEB-2008	58683	63323	250.0	269.8	mg/L	8	15	
Hexacosane	B	228081329001	25-FEB-2008	71724	68691	50.00	47.89	mg/L	-4	15	

Analyst: JDG Date: 03/11/08 Reviewer: ATL Date: 03/11/08

228101200004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
Seqnum : 228101200018 File : 070_018 Time : 10-MAR-2008 14:51
Standards: S8078

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	B	228081329004	25-FEB-2008	58683	60273	500.0	513.5	mg/L	3	15	
Hexacosane	B	228081329001	25-FEB-2008	71724	65570	50.00	45.71	mg/L	-9	15	

Analyst: DNT Date: 03/10/08 Reviewer: EAH Date: 03/10/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_500 IDF : 1.0
Seqnum : 168101369004 File : 070a004 Time : 10-MAR-2008 10:57
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	26143	500.0	501.6	mg/L	0	15	
Hexacosane	167479943001	30-NOV-2007	26439	30084	50.00	56.89	mg/L	14	15	

Analyst: JDG Date: 03/11/08 Reviewer: MMP Date: 03/11/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168101369005 File : 070a005 Time : 10-MAR-2008 11:24
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17260	500.0	474.0	mg/L	-5	15	
Hexacosane	167479943001	30-NOV-2007	26439	27159	50.00	51.36	mg/L	3	15	

Analyst: JDG Date: 03/11/08 Reviewer: MMP Date: 03/11/08

168101369005

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 168101369018 File : 070a018 Time : 10-MAR-2008 22:05
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	24124	1000	925.7	mg/L	-7	15	
Hexacosane	167479943001	30-NOV-2007	26439	27072	50.00	51.20	mg/L	2	15	

Analyst: JDG Date: 03/11/08 Reviewer: MMP Date: 03/11/08

168101369018

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168101369019 File : 070a019 Time : 10-MAR-2008 22:33
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17883	500.0	491.1	mg/L	-2	15	
Hexacosane	167479943001	30-NOV-2007	26439	27473	50.00	51.96	mg/L	4	15	

Analyst: JDG Date: 03/11/08 Reviewer: MMP Date: 03/11/08

168101369019

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 178095876039 File : 066a039 Time : 07-MAR-2008 07:30
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	61362	1000	1011	mg/L	1	15	
Hexacosane	178035189001	24-JAN-2008	65927	75082	50.00	56.94	mg/L	14	15	

Analyst: JDG Date: 03/07/08 Reviewer: LH Date: 03/07/08

178095876039

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178095876040 File : 066a040 Time : 07-MAR-2008 07:57
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	47357	500.0	535.8	mg/L	7	15	
Hexacosane	178035189001	24-JAN-2008	65927	74125	50.00	56.22	mg/L	12	15	

Analyst: JDG Date: 03/10/08 Reviewer: LH Date: 03/10/08

178095876040

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 178095876049 File : 066a049 Time : 07-MAR-2008 12:54
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	60093	1000	989.6	mg/L	-1	15	
Hexacosane	178035189001	24-JAN-2008	65927	73372	50.00	55.65	mg/L	11	15	

Analyst: JDG Date: 03/07/08 Reviewer: LH Date: 03/07/08

178095876049

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178095876050 File : 066a050 Time : 07-MAR-2008 13:21
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	45662	500.0	516.6	mg/L	3	15	
Hexacosane	178035189001	24-JAN-2008	65927	69571	50.00	52.76	mg/L	6	15	

Analyst: JDG Date: 03/10/08 Reviewer: LH Date: 03/10/08

178095876050

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 178101168013 File : 070a013 Time : 10-MAR-2008 11:33
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	55889	1000	920.4	mg/L	-8	15	
Hexacosane	178035189001	24-JAN-2008	65927	68265	50.00	51.77	mg/L	4	15	

Analyst: JDG Date: 03/10/08 Reviewer: LH Date: 03/10/08

178101168013

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178101168014
Standards: S8071

Run Name : MO_500
File : 070a014

IDF : 1.0
Time : 10-MAR-2008 12:01

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	44955	500.0	508.6	mg/L	2	15	
Hexacosane	178035189001	24-JAN-2008	65927	70229	50.00	53.26	mg/L	7	15	

Analyst: JDG Date: 03/10/08 Reviewer: LH Date: 03/10/08

178101168014

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178101168021
Standards: S8077

Run Name : DSL_250
File : 070a021

IDF : 1.0
Time : 10-MAR-2008 15:18

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	55152	250.0	227.1	mg/L	-9	15	
Hexacosane	178035189001	24-JAN-2008	65927	66819	50.00	50.68	mg/L	1	15	

Analyst: DNT Date: 03/10/08 Reviewer: EAH Date: 03/10/08

178101168021

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178101168022 File : 070a022 Time : 10-MAR-2008 15:46
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	45034	500.0	509.5	mg/L	2	15	
Hexacosane	178035189001	24-JAN-2008	65927	69834	50.00	52.96	mg/L	6	15	

Analyst: DNT Date: 03/10/08 Reviewer: EAH Date: 03/10/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117485208

Instrument : GC11A
Method : EPA 8015B

Begun : 12/02/07 22:48
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	336a001	X	PRIMER			12/02/07 22:48	1.0	
002	336a002	X	IB			12/02/07 23:16	1.0	
003	336a003	CCV	DSL_500			12/02/07 23:44	1.0	1
004	336a004	CCV	MO_500			12/03/07 00:12	1.0	2
005	336a005	CCV	DSL_500			12/03/07 03:22	1.0	1
006	336a006	CCV	MO_500			12/03/07 03:50	1.0	2
007	336a007	CMARKER	C8-C-50			12/03/07 05:22	1.0	3
008	336a008	IB	CALIB			12/03/07 05:50	1.0	
009	336a009	ICAL	DSL_10			12/03/07 06:18	1.0	4
010	336a010	ICAL	DSL_100			12/03/07 06:46	1.0	5
011	336a011	ICAL	DSL_500			12/03/07 07:14	1.0	6
012	336a012	ICAL	DSL-1000			12/03/07 07:42	1.0	7
013	336a013	ICAL	DSL_5000			12/03/07 08:10	1.0	8
014	336a014	ICAL	DSL_7500			12/03/07 08:39	1.0	9
015	336a015	IB	CALIB			12/03/07 09:07	1.0	
016	336a016	ICV	DSL_500			12/03/07 09:35	1.0	10
017	336a017	X	ICV			12/03/07 10:03	1.0	10
018	336a018	IB	CALIB			12/03/07 10:31	1.0	
019	336a019	ICAL	MO_50			12/03/07 10:59	1.0	11
020	336a020	ICAL	MO_250			12/03/07 11:27	1.0	12
021	336a021	ICAL	MO_500			12/03/07 11:55	1.0	13
022	336a022	ICAL	MO_1000			12/03/07 12:22	1.0	14
023	336a023	ICAL	MO_5000			12/03/07 12:50	1.0	15
024	336a024	ICAL	MO_7500			12/03/07 13:18	1.0	16
025	336a025	IB	CALIB			12/03/07 13:46	1.0	
026	336a026	ICAL	HEX_5			12/03/07 14:15	1.0	17
027	336a027	ICAL	HEX_10			12/03/07 14:43	1.0	18
028	336a028	ICAL	HEX_25			12/03/07 15:10	1.0	19
029	336a029	ICAL	HEX_50			12/03/07 15:39	1.0	20
030	336a030	ICAL	HEX_100			12/03/07 16:07	1.0	21
031	336a031	X	HEX_200			12/03/07 16:35	1.0	22

ZA: 12/04/07 EAH: 12/05/07 LH: 12/06/07

Standards used: 1=S7541 2=S7310 3=S4049 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617 11=S6848 12=S6849 13=S6850 14=S6851 15=S6846 16=S6847 17=S7036 18=S7037 19=S7038 20=S7039 21=S7040 22=S7041

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 118030621

Instrument : GC11A
Method : EPA 8015B
Begun : 01/21/08 06:21
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	021a001	X	PRIMER			01/21/08 06:21	1.0	
002	021a002	X	IB			01/21/08 06:49	1.0	
003	021a003	X	CMARKER			01/21/08 07:17	1.0	1
004	021a004	CCV	DSL_250			01/21/08 07:45	1.0	2
005	021a005	CCV	MO_500			01/21/08 08:14	1.0	3
006	021a006	X	IB			01/21/08 09:29	1.0	
007	021a007	X	CMARKER			01/21/08 09:58	1.0	1
008	021a008	CCV	DSL_250			01/21/08 10:26	1.0	2
009	021a009	CCV	MO_500			01/21/08 10:54	1.0	3
010	021a010	CCV	DSL_250			01/21/08 11:23	1.0	2
011	021a011	CCV	DSL_500			01/21/08 11:54	1.0	4
012	021a012	CCV	DSL_1000			01/21/08 12:22	1.0	5
013	021a013	IB	CALIB			01/21/08 13:18	1.0	
014	021a014	X	DSL_10			01/21/08 13:46	1.0	6
015	021a015	ICAL	DSL_100			01/21/08 14:15	1.0	7
016	021a016	ICAL	DSL_500			01/21/08 14:43	1.0	8
017	021a017	ICAL	DSL-1000			01/21/08 15:12	1.0	9
018	021a018	ICAL	DSL_5000			01/21/08 15:40	1.0	10
019	021a019	ICAL	DSL_7500			01/21/08 16:09	1.0	11
020	021a020	IB	CALIB			01/21/08 16:38	1.0	
021	021a021	X	DSL_500			01/21/08 17:06	10.0	12
022	021a022	X	ICV			01/21/08 17:35	1.0	12
023	021a023	IB	CALIB			01/21/08 18:04	1.0	
024	021a024	ICAL	DSL_10			01/21/08 18:32	1.0	6
025	021a025	ICV	DSL_500			01/21/08 19:01	1.0	12
026	021a026	X	ICV			01/21/08 19:29	1.0	12
027	021a027	X	IB			01/21/08 19:58	1.0	

CP 01/22/08 : The dsl_10 was re-run at end of ICAL because first run had septa contamination.

Analyst: CP Date: 01/22/08 Reviewer: LH Date: 01/22/08

Standards used: 1=S8067 2=S8077 3=S8071 4=S8078 5=S8079 6=S7961 7=S7962 8=S7963 9=S7964 10=S7960 11=S7965 12=S8069

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 118095822

Instrument : GC11A
Method : EPA 8015B

Begun : 03/06/08 13:02
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	066a001	X	IB				03/06/08 13:02	1.0		
002	066a002	X	CMARKER				03/06/08 13:30	1.0	1	
003	066a003	CCV	DSL_500				03/06/08 13:59	1.0	2	
004	066a004	CCV	MO_500				03/06/08 14:27	1.0	3	
005	066a005	CCV	BUNK_1250				03/06/08 14:56	1.0	4	
006	066a006	SAMPLE	201534-010		Water	135474	03/06/08 16:01	1.0		
007	066a007	SAMPLE	201534-011		Water	135474	03/06/08 16:29	1.0		
008	066a008	SAMPLE	201560-006		Water	135477	03/06/08 16:58	1.0		
009	066a009	MS	QC431411	S	Soil	135612	03/06/08 17:29	3.0		
010	066a010	MSD	QC431412	S	Soil	135612	03/06/08 17:57	3.0		
011	066a011	SDUP	QC431413	S	Soil	135612	03/06/08 18:25	3.0		
012	066a012	SDUP	QC431414	S	Soil	135612	03/06/08 18:53	3.0		
013	066a013	MSS	201618-037	S	Soil	135612	03/06/08 19:22	3.0		
014	066a014	X	IB				03/06/08 19:50	1.0		
015	066a015	BLANK	QC431409	S	Soil	135612	03/06/08 20:19	1.0		
016	066a016	LCS	QC431410	S	Soil	135612	03/06/08 20:47	1.0		
017	066a017	CCV	DSL_250				03/06/08 21:15	1.0	5	
018	066a018	CCV	MO_500				03/06/08 21:43	1.0	3	
019	066a019	CCV	BUNK_1250				03/06/08 22:11	1.0	4	
020	066a020	X	CCV				03/06/08 22:39	1.0	5	
021	066a021	X	CCV				03/06/08 23:07	1.0	3	
022	066a022	X	CCV				03/06/08 23:36	1.0	4	
023	066a023	SAMPLE	201618-042	S	Soil	135612	03/07/08 00:04	1.0		
024	066a024	SAMPLE	201618-044	S	Soil	135612	03/07/08 00:32	1.0		
025	066a025	SAMPLE	201618-043	S	Soil	135612	03/07/08 01:00	1.0		
026	066a026	SAMPLE	201618-041	S	Soil	135612	03/07/08 01:28	50.0		
027	066a027	SAMPLE	201618-039	S	Soil	135612	03/07/08 01:57	100.0		
028	066a028	X	IB				03/07/08 02:25	1.0		
029	066a029	SAMPLE	201618-040	S	Soil	135612	03/07/08 02:53	20.0		
030	066a030	SAMPLE	201618-038	S	Soil	135612	03/07/08 03:21	3.0		1:BUNKC:12-40=8500
031	066a031	SAMPLE	201618-036	S	Soil	135612	03/07/08 03:49	50.0		
032	066a032	SAMPLE	201618-035	S	Soil	135612	03/07/08 04:17	50.0		
033	066a033	X	IB				03/07/08 04:45	1.0		
034	066a034	SAMPLE	201615-007		Water	135554	03/07/08 05:13	1.0		
035	066a035	X	CMARKER				03/07/08 05:41	1.0	1	
036	066a036	CCV	DSL_1000				03/07/08 06:10	1.0	6	
037	066a037	CCV	MO_500				03/07/08 06:38	1.0	3	
038	066a038	X	CCV				03/07/08 07:06	1.0	6	
039	066a039	X	CCV				03/07/08 07:34	1.0	3	
040	066a040	SAMPLE	201531-004	S	Water	135472	03/07/08 08:29	1.0		
041	066a041	LCS	QC431517	S	Soil	135640	03/07/08 08:57	1.0		
042	066a042	BLANK	QC431516	S	Soil	135640	03/07/08 09:26	1.0		
043	066a043	MSS	201726-001	S	Soil	135640	03/07/08 09:54	1.0		
044	066a044	MS	QC431680	S	Soil	135640	03/07/08 10:23	1.0		
045	066a045	MSD	QC431681	S	Soil	135640	03/07/08 10:51	1.0		
046	066a046	X	IB				03/07/08 11:19	1.0		
047	066a047	BLANK	QC431591		Water	135658	03/07/08 11:48	1.0		
048	066a048	SAMPLE	201628-001		Water	135658	03/07/08 12:17	1.0		
049	066a049	X	DSL_250				03/07/08 12:45	1.0	5	
050	066a050	CCV	MO_500				03/07/08 13:14	1.0	3	
051	066a051	CCV	DSL_250				03/07/08 13:42	1.0	5	
052	066a052	X	CMARKER				03/07/08 14:38	1.0	1	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 118095822

Instrument : GC11A
Method : EPA 8015B

Begun : 03/06/08 13:02
SOP Version : TEH_rv13

Standards used: 1=S8590 2=S8078 3=S8071 4=S7967 5=S8077 6=S8079

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167416763

Instrument : GC15B
Method : EPA 8015B

Begun : 10/16/07 10:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	289b001	X	PRIMER			10/16/07 10:03	1.0	
002	289b002	X	IB			10/16/07 10:30	1.0	
003	289b003	X	CMARKER			10/16/07 10:58	1.0	1
004	289b004	CCV	DSL_250			10/16/07 11:26	1.0	2
005	289b005	CCV	MO_500			10/16/07 11:53	1.0	3
006	289b006	CCV	DSL_250			10/16/07 12:47	1.0	2
007	289b007	X	IB			10/17/07 14:25	1.0	
009	289b009	X	IB			10/17/07 16:54	1.0	
010	289b010	X	IB			10/17/07 17:22	1.0	
011	289b011	CMARKER	C10-C50			10/17/07 17:50	1.0	1
012	289b012	CCV	DSL_500			10/17/07 18:17	1.0	4
013	289b013	CCV	MO_500			10/17/07 18:45	1.0	3
014	289b014	CCV	OTP_50			10/17/07 19:12	1.0	5
015	289b015	X	IB			10/18/07 01:44	1.0	
016	289b016	IB	CALIB			10/18/07 02:12	1.0	
017	289b017	ICAL	DSL_10			10/18/07 02:40	1.0	6
018	289b018	ICAL	DSL_100			10/18/07 03:07	1.0	7
019	289b019	ICAL	DSL_500			10/18/07 03:35	1.0	8
020	289b020	ICAL	DSL_1000			10/18/07 04:03	1.0	9
021	289b021	ICAL	DSL_5000			10/18/07 04:31	1.0	10
022	289b022	ICAL	DSL_7500			10/18/07 04:58	1.0	11
023	289b023	IB	CALIB			10/18/07 05:26	1.0	
024	289b024	ICV	DSL_500			10/18/07 05:54	10.0	12
025	289b025	X	ICV			10/18/07 06:22	1.0	12
026	289b026	IB	CALIB			10/18/07 06:50	1.0	
027	289b027	ICAL	MO_50			10/18/07 07:18	1.0	13
028	289b028	ICAL	MO_250			10/18/07 07:46	1.0	14
029	289b029	ICAL	MO_500			10/18/07 08:14	1.0	15
030	289b030	ICAL	MO_1000			10/18/07 08:42	1.0	16
031	289b031	ICAL	MO_5000			10/18/07 09:10	1.0	17
032	289b032	ICAL	MO_7500			10/18/07 09:38	1.0	18
033	289b033	IB	CALIB			10/18/07 10:06	1.0	
034	289b034	IB	CALIB			10/18/07 10:34	1.0	
035	289b035	ICAL	HEX_5			10/18/07 11:02	1.0	19
036	289b036	ICAL	HEX_10			10/18/07 11:30	1.0	20
037	289b037	ICAL	HEX_25			10/18/07 11:57	1.0	21
038	289b038	ICAL	HEX_50			10/18/07 12:25	1.0	22
039	289b039	ICAL	HEX_100			10/18/07 12:53	1.0	23
040	289b040	ICAL	HEX_200			10/18/07 13:21	1.0	24
041	289b041	IB	CALIB			10/18/07 13:48	1.0	
042	289b042	ICAL	OTP_5			10/18/07 14:16	1.0	25
043	289b043	ICAL	OTP_10			10/18/07 14:44	1.0	26
044	289b044	ICAL	OTP_25			10/18/07 15:12	1.0	27
045	289b045	ICAL	OTP_50			10/18/07 15:39	1.0	28
046	289b046	ICAL	OTP_100			10/18/07 16:07	1.0	29
047	289b047	ICAL	OTP_200			10/18/07 16:34	1.0	30
048	289b048	IB	CALIB			10/18/07 17:02	1.0	

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Standards used: 1=S6952 2=S6807 3=S7310 4=S6808 5=S6922 6=S6612 7=S6613 8=S6614 9=S6615 10=S6611 11=S6616 12=S6617 13=S6848 14=S6849 15=S6850 16=S6851 17=S6846 18=S6847 19=S7036 20=S7037 21=S7038 22=S7039 23=S7040 24=S7041 25=S6397 26=S6398 27=S6399 28=S6400 29=S6401 30=S6402

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167479943

Instrument : GC15B
Method : EPA 8015B

Begun : 11/29/07 07:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	333b001	X	PRIMER				11/29/07 07:03	1.0		
002	333b002	X	IB				11/29/07 07:31	1.0		
003	333b003	X	CMARKER				11/29/07 07:58	1.0	1	
004	333b004	CCV	DSL_250				11/29/07 08:26	1.0	2	
005	333b005	CCV	MO_500				11/29/07 08:54	1.0	3	
006	333b006	X	IB				11/29/07 11:32	1.0		
007	333b007	X	CMARKER				11/29/07 12:00	1.0	1	
008	333b008	CCV	DSL_500				11/29/07 12:27	1.0	4	
009	333b009	CCV	MO_500				11/29/07 12:55	1.0	3	
010	333b010	X	IB				11/30/07 04:12	1.0		
011	333b011	IB	CALIB				11/30/07 04:39	1.0		
012	333b012	ICAL	HEX_5				11/30/07 05:07	1.0	5	
013	333b013	ICAL	HEX_10				11/30/07 05:35	1.0	6	
014	333b014	ICAL	HEX_25				11/30/07 06:03	1.0	7	
015	333b015	ICAL	HEX_50				11/30/07 06:30	1.0	8	
016	333b016	ICAL	HEX_100				11/30/07 06:58	1.0	9	
017	333b017	ICAL	HEX_200				11/30/07 07:26	1.0	10	
018	333b018	X	IB				11/30/07 07:54	1.0		
019	333b019	X	CMARKER				11/30/07 08:22	1.0	1	
020	333b020	CCV	DSL_500				11/30/07 08:50	1.0	4	
021	333b021	CCV	MO_500				11/30/07 09:18	1.0	3	
022	333b022	SAMPLE	199531-002	S	Soil	132225	11/30/07 09:58	1.0		
023	333b023	SAMPLE	199531-004	S	Soil	132225	11/30/07 10:26	1.0		1:BUNKC:12-40=6100
024	333b024	X	IB				11/30/07 10:54	1.0		
025	333b025	SAMPLE	199484-002	S	Soil	132190	11/30/07 11:21	1.0		
026	333b026	SAMPLE	199484-003	S	Soil	132190	11/30/07 11:49	1.0		
027	333b027	SAMPLE	199440-002	S	Soil	132140	11/30/07 12:27	10.0		
028	333b028	SAMPLE	199440-008	S	Soil	132140	11/30/07 12:59	10.0		
029	333b029	SAMPLE	199440-014	S	Soil	132140	11/30/07 13:30	10.0		
030	333b030	X	IB				11/30/07 14:48	1.0		
031	333b031	MSS	199483-002	S	Soil	132190	11/30/07 15:28	1.0		
032	333b032	SAMPLE	199483-004	S	Soil	132190	11/30/07 15:56	1.0		
033	333b033	X	IB				11/30/07 16:24	1.0		
034	333b034	SAMPLE	199483-003	S	Soil	132190	11/30/07 16:52	1.0		
035	333b035	X	DSL_250				11/30/07 17:20	1.0	2	
036	333b036	X	MO_500				11/30/07 17:48	1.0	3	
037	333b037	CCV	DSL_250				11/30/07 18:24	1.0	2	
038	333b038	CCV	MO_500				11/30/07 18:52	1.0	3	

Standards used: 1=S6952 2=S7540 3=S7310 4=S7541 5=S7036 6=S7037 7=S7038 8=S9039 9=S7040 10=S7041

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168101369

Instrument : GC15B
Method : EPA 8015B

Begun : 03/10/08 09:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	070a001	X	PRIMER				03/10/08 09:29	1.0	
002	070a002	X	IB				03/10/08 09:57	1.0	
003	070a003	X	CMARKER				03/10/08 10:29	1.0	1
004	070a004	CCV	DSL_500				03/10/08 10:57	1.0	2
005	070a005	CCV	MO_500				03/10/08 11:24	1.0	3
006	070a006	X	IB				03/10/08 15:01	1.0	
007	070a007	LCS	QC432035	S	Soil	135772	03/10/08 16:47	1.0	
008	070a008	BLANK	QC432034	S	Soil	135772	03/10/08 17:15	1.0	
009	070a009	SAMPLE	201616-001	S	Water	135591	03/10/08 17:51	1.0	
010	070a010	SAMPLE	201615-001	S	Water	135554	03/10/08 18:19	1.0	
011	070a011	SAMPLE	201615-002	S	Water	135554	03/10/08 18:47	1.0	
012	070a012	SAMPLE	201615-003	S	Water	135554	03/10/08 19:16	1.0	
013	070a013	SAMPLE	201615-004	S	Water	135554	03/10/08 19:44	1.0	
014	070a014	SAMPLE	201615-005	S	Water	135554	03/10/08 20:12	1.0	
015	070a015	SAMPLE	201615-006	S	Water	135554	03/10/08 20:41	1.0	
016	070a016	SAMPLE	201615-008	S	Water	135554	03/10/08 21:09	1.0	
017	070a017	X	CMARKER				03/10/08 21:37	1.0	1
018	070a018	CCV	DSL_1000				03/10/08 22:05	1.0	4
019	070a019	CCV	MO_500				03/10/08 22:33	1.0	3
020	070a020	X	CCV				03/10/08 23:00	1.0	4
021	070a021	X	CCV				03/10/08 23:28	1.0	3

Standards used: 1=S8590 2=S8078 3=S8071 4=S8079

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178033862

Instrument : GC17A
Method : EPA 8015B

Begun : 01/23/08 12:22
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	023a001	X	PRIMER			01/23/08 12:22	1.0	
002	023a002	X	IB			01/23/08 12:49	1.0	
003	023a003	X	CMARKER			01/23/08 13:16	1.0	1
004	023a004	CCV	DSL_500			01/23/08 13:44	1.0	2
005	023a005	CCV	MO_500			01/23/08 14:11	1.0	3
006	023a006	IB	CALIB			01/23/08 15:11	1.0	
007	023a007	CMARKER	C8-C50			01/23/08 15:39	1.0	4
008	023a008	IB	CALIB			01/23/08 16:06	1.0	
009	023a009	ICAL	DSL_10			01/23/08 16:34	1.0	5
010	023a010	ICAL	DSL_100			01/23/08 17:01	1.0	6
011	023a011	ICAL	DSL_500			01/23/08 17:29	1.0	7
012	023a012	ICAL	DSL_1000			01/23/08 17:56	1.0	8
013	023a013	ICAL	DSL_5000			01/23/08 18:23	1.0	9
014	023a014	ICAL	DSL_7500			01/23/08 18:51	1.0	10
015	023a015	IB	CALIB			01/23/08 19:18	1.0	
016	023a016	ICV	DSL_500			01/23/08 19:46	1.0	11
017	023a017	X	DSL_500			01/23/08 20:13	1.0	11
018	023a018	IB	CALIB			01/23/08 20:40	1.0	

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S4049 5=S7961 6=S7962 7=S7963 8=S7964 9=S7960 10=S7965 11=S8069

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178035189

Instrument : GC17A
Method : EPA 8015B

Begun : 01/24/08 10:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	024a001	X	PRIMER			01/24/08 10:29	1.0	
002	024a002	X	IB			01/24/08 10:56	1.0	
003	024a003	X	CMARKER			01/24/08 11:24	1.0	1
004	024a004	CCV	DSL_500			01/24/08 11:52	1.0	2
005	024a005	CCV	MO_500			01/24/08 12:19	1.0	3
006	024a006	IB	CALIB			01/24/08 13:09	1.0	
007	024a007	ICAL	HEX_5			01/24/08 13:37	1.0	4
008	024a008	ICAL	HEX_10			01/24/08 14:04	1.0	5
009	024a009	ICAL	HEX_25			01/24/08 14:32	1.0	6
010	024a010	ICAL	HEX_50			01/24/08 14:59	1.0	7
011	024a011	ICAL	HEX_100			01/24/08 15:26	1.0	8
012	024a012	ICAL	HEX_200			01/24/08 15:54	1.0	9
013	024a013	IB	CALIB			01/24/08 16:21	1.0	
014	024a014	ICAL	MO_50			01/24/08 16:49	1.0	10
015	024a015	X	MO_250			01/24/08 17:16	1.0	11
016	024a016	ICAL	MO_500			01/24/08 17:44	1.0	12
017	024a017	ICAL	MO_1000			01/24/08 18:11	1.0	13
018	024a018	ICAL	MO_5000			01/24/08 18:38	1.0	14
019	024a019	ICAL	MO_7500			01/24/08 19:06	1.0	15
020	024a020	IB	CALIB			01/24/08 19:34	1.0	
021	024a021	X	IB			01/25/08 11:21	1.0	
022	024a022	ICAL	MO_250			01/25/08 12:03	1.0	11

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S8093 5=S8094 6=S8095 7=S8096 8=S8097 9=S8098 10=S6848 11=S6849 12=S6850 13=S6851 14=S6846 15=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178095876

Instrument : GC17A
Method : EPA 8015B

Begun : 03/06/08 13:56
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	066a001	X	IB				03/06/08 13:56	1.0		
002	066a002	X	CMARKER				03/06/08 14:23	1.0	1	
003	066a003	CCV	DSL_250				03/06/08 14:50	1.0	2	
004	066a004	CCV	MO_500				03/06/08 15:18	1.0	3	
005	066a005	CCV	JP5_250				03/06/08 15:45	1.0	4	
006	066a006	CCV	HYFL_1250				03/06/08 16:21	1.0	5	
007	066a007	SAMPLE	201485-007	S	Water	135549	03/06/08 16:58	1.0		
008	066a008	SAMPLE	201478-001		Water	135443	03/06/08 17:25	200.0		2:BUNKC:12-40=11000
009	066a009	SAMPLE	201397-003	S	Soil	135567	03/06/08 17:53	1.0		
010	066a010	SAMPLE	201582-002	S	Water	135502	03/06/08 18:20	1.0		
011	066a011	SAMPLE	201618-003	S	Soil	135561	03/06/08 18:48	1.0		
012	066a012	X	IB				03/06/08 19:15	1.0		
013	066a013	BLANK	QC430984		Water	135511	03/06/08 19:42	1.0		
014	066a014	BLANK	QC431331		Water	135591	03/06/08 20:09	1.0		
015	066a015	BLANK	QC431331	S	Water	135591	03/06/08 20:37	1.0		
016	066a016	SAMPLE	201533-005	S	Water	135591	03/06/08 21:04	1.0		
017	066a017	X	IB				03/06/08 21:31	1.0		
018	066a018	LCS	QC431332	S	Water	135591	03/06/08 21:59	1.0		
019	066a019	CCV	DSL_500				03/06/08 22:26	1.0	6	
020	066a020	CCV	MO_500				03/06/08 22:53	1.0	3	
021	066a021	CCV	JP5_250				03/06/08 23:20	1.0	4	
022	066a022	CCV	HYFL_1250				03/06/08 23:48	1.0	5	
023	066a023	X	CCV				03/07/08 00:15	1.0	6	
024	066a024	X	CCV				03/07/08 00:42	1.0	3	
025	066a025	X	CCV				03/07/08 01:09	1.0	4	
026	066a026	X	CCV				03/07/08 01:37	1.0	5	
027	066a027	SAMPLE	201655-003	S	Water	135600	03/07/08 02:04	1.0		
028	066a028	MDLCHECK	201298-009		Water	135600	03/07/08 02:31	1.0		
029	066a029	SAMPLE	201522-003		Water	135600	03/07/08 02:58	1.0		
030	066a030	SAMPLE	201569-010		Water	135600	03/07/08 03:25	1.0		2:BUNKC:12-40=7200
031	066a031	X	IB				03/07/08 03:53	1.0		
032	066a032	BLANK	QC431371	S	Water	135600	03/07/08 04:19	1.0		
033	066a033	BS	QC431372	S	Water	135600	03/07/08 04:46	1.0		
034	066a034	BSD	QC431373	S	Water	135600	03/07/08 05:13	1.0		
035	066a035	SAMPLE	201571-001	S	Water	135600	03/07/08 05:41	1.0		
036	066a036	SAMPLE	201571-002	S	Water	135600	03/07/08 06:08	1.0		
037	066a037	SAMPLE	201571-003	S	Water	135600	03/07/08 06:35	1.0		
038	066a038	X	CMARKER				03/07/08 07:02	1.0	1	
039	066a039	CCV	DSL_1000				03/07/08 07:30	1.0	7	
040	066a040	CCV	MO_500				03/07/08 07:57	1.0	3	
041	066a041	X	CCV				03/07/08 08:25	1.0	7	
042	066a042	SAMPLE	201726-002	S	Soil	135640	03/07/08 08:53	1.0		
043	066a043	SAMPLE	201726-003	S	Soil	135640	03/07/08 09:20	1.0		
044	066a044	X	IB				03/07/08 10:23	1.0		
045	066a045	MS	QC431379	S	Soil	135602	03/07/08 11:01	1.0		
046	066a046	MSD	QC431380	S	Soil	135602	03/07/08 11:28	1.0		
047	066a047	BS	QC431592		Water	135658	03/07/08 11:55	1.0		
048	066a048	BSD	QC431593		Water	135658	03/07/08 12:23	1.0		
049	066a049	CCV	DSL_1000				03/07/08 12:54	1.0	7	
050	066a050	CCV	MO_500				03/07/08 13:21	1.0	3	
051	066a051	X	CMARKER				03/07/08 14:21	1.0	1	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178095876

Instrument : GC17A
Method : EPA 8015B

Begun : 03/06/08 13:56
SOP Version : TEH_rv13

Standards used: 1=S8590 2=S8077 3=S8071 4=S8100 5=S8337 6=S8078 7=S8079

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178101168

Instrument : GC17A
Method : EPA 8015B

Begun : 03/10/08 06:08
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	070a001	X	PRIMER				03/10/08 06:08	1.0		
002	070a002	X	IB				03/10/08 06:35	1.0		
003	070a003	X	CMARKER				03/10/08 07:02	1.0	1	
004	070a004	CCV	DSL_500				03/10/08 07:29	1.0	2	
005	070a005	CCV	MO_500				03/10/08 07:55	1.0	3	
006	070a006	CCV	JP5_250				03/10/08 08:22	1.0	4	
007	070a007	SAMPLE	201485-010	S	Water	135549	03/10/08 08:49	1.0		
008	070a008	SAMPLE	201675-002	S	Soil	135640	03/10/08 09:17	100.0		
009	070a009	X	TANKCHECK				03/10/08 09:44	1.0		
010	070a010	SAMPLE	201752-001		Miscell.		03/10/08 10:11	250.0		
011	070a011	X	IB				03/10/08 10:39	1.0		
012	070a012	BLANK	QC431977	S	Soil	135756	03/10/08 11:06	1.0		
013	070a013	CCV	DSL_1000				03/10/08 11:33	1.0	5	
014	070a014	CCV	MO_500				03/10/08 12:01	1.0	3	
015	070a015	CCV	JP5_250				03/10/08 12:29	1.0	4	
016	070a016	CCV	JP8_250				03/10/08 12:56	1.0	6	
017	070a017	MSS	201726-001	S	Soil	135772	03/10/08 13:28	1.0		
018	070a018	SAMPLE	201618-038	S	Soil	135772	03/10/08 13:56	3.0		5:BUNKC:12-40=16000
019	070a019	X	IB				03/10/08 14:23	1.0		
020	070a020	CMARKER	CMARKER				03/10/08 14:51	1.0	1	
021	070a021	CCV	DSL_250				03/10/08 15:18	1.0	7	
022	070a022	CCV	MO_500				03/10/08 15:46	1.0	3	
023	070a023	SAMPLE	201618-003	S	Soil	135561	03/10/08 17:28	1.0		
024	070a024	X	IB				03/10/08 17:56	1.0		
025	070a025	LCS	QC432035	S	Soil	135772	03/10/08 18:23	1.0		
026	070a026	BLANK	QC431821		Water	135715	03/10/08 18:51	1.0		
027	070a027	SAMPLE	201746-001		Water	135715	03/10/08 19:18	1.0		
028	070a028	SAMPLE	201680-001		Water	135715	03/10/08 19:51	1.0		
029	070a029	SAMPLE	201746-002		Water	135715	03/10/08 20:19	1.0		
030	070a030	SAMPLE	201397-004		Soil	135567	03/10/08 20:46	1.0		1:BUNKC:12-40=5100
031	070a031	MS	QC431411	S	Soil	135612	03/10/08 21:14	3.0		
032	070a032	MSD	QC431412	S	Soil	135612	03/10/08 21:41	3.0		
033	070a033	X	IB				03/10/08 22:08	1.0		
034	070a034	BLANK	QC432034	S	Soil	135772	03/10/08 22:36	1.0		
035	070a035	X	CMARKER				03/10/08 23:03	1.0	1	
036	070a036	CCV	DSL_250				03/10/08 23:30	1.0	7	
037	070a037	CCV	MO_500				03/10/08 23:57	1.0	3	
038	070a038	X	CCV				03/11/08 00:24	1.0	7	
039	070a039	X	CCV				03/11/08 00:52	1.0	3	

Standards used: 1=S8590 2=S8078 3=S8071 4=S8100 5=S8079 6=S8117 7=S8077

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228081329

Instrument : GC14B
Method : EPA 8015B

Begun : 02/25/08 11:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	056_001	X	IB			02/25/08 11:29	1.0	
002	056_002	X	IB			02/25/08 11:57	1.0	
003	056_003	CMARKER	C8-C50			02/25/08 12:25	1.0	1
004	056_004	CCV	DSL_500			02/25/08 12:53	1.0	2
005	056_005	CCV	MO_500			02/25/08 13:21	1.0	3
006	056_006	CCV	DSL_500			02/25/08 14:22	1.0	2
007	056_007	CCV	MO_500			02/25/08 14:50	1.0	3
008	056_008	IB	CALIB			02/25/08 15:19	1.0	
009	056_009	ICAL	HEX_5			02/25/08 15:51	1.0	4
010	056_010	ICAL	HEX_10			02/25/08 16:19	1.0	5
011	056_011	ICAL	HEX_25			02/25/08 16:47	1.0	6
012	056_012	ICAL	HEX_50			02/25/08 17:15	1.0	7
013	056_013	ICAL	HEX_100			02/25/08 17:43	1.0	8
014	056_014	ICAL	HEX_200			02/25/08 18:11	1.0	9
015	056_015	IB	CALIB			02/25/08 18:40	1.0	
016	056_016	ICAL	DSL_10			02/25/08 19:08	1.0	10
017	056_017	ICAL	DSL_100			02/25/08 19:36	1.0	11
018	056_018	ICAL	DSL_500			02/25/08 20:04	1.0	12
019	056_019	ICAL	DSL_1000			02/25/08 20:31	1.0	13
020	056_020	ICAL	DSL_5000			02/25/08 20:59	1.0	14
021	056_021	ICAL	DSL_7500			02/25/08 21:27	1.0	15
022	056_022	IB	CALIB			02/25/08 21:55	1.0	
023	056_023	ICV	DSL_500			02/25/08 22:23	1.0	16
024	056_024	X	ICV			02/25/08 22:50	1.0	16
025	056_025	IB	CALIB			02/25/08 23:18	1.0	
026	056_026	ICAL	MO_50			02/25/08 23:46	1.0	17
027	056_027	ICAL	MO_250			02/26/08 00:14	1.0	18
028	056_028	ICAL	MO_500			02/26/08 00:42	1.0	19
029	056_029	ICAL	MO_1000			02/26/08 01:10	1.0	20
030	056_030	ICAL	MO_5000			02/26/08 01:38	1.0	21
031	056_031	ICAL	MO_7500			02/26/08 02:05	1.0	22
032	056_032	IB	CALIB			02/26/08 02:33	1.0	

Analyst: JDG Date: 02/26/08 Reviewer: LH Date: 02/26/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S8093 5=S8094 6=S8095 7=S8096 8=S8097 9=S8098 10=S7961 11=S7962 12=S7963 13=S7964 14=S7960 15=S7965 16=S8069 17=S8270 18=S8271 19=S8272 20=S8273 21=S8269 22=S8274

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228101200

Instrument : GC14B
Method : EPA 8015B

Begun : 03/10/08 06:40
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	070_001	X	PRIMER				03/10/08 06:40	1.0		
002	070_002	X	IB				03/10/08 07:08	1.0		
003	070_003	X	CMARKER				03/10/08 07:35	1.0	1	
004	070_004	CCV	DSL_250				03/10/08 08:03	1.0	2	
005	070_005	CCV	MO_500				03/10/08 08:31	1.0	3	
006	070_006	MSS	201726-001		Soil	135640	03/10/08 08:59	1.0		
007	070_007	SAMPLE	201618-038	S	Soil	135612	03/10/08 09:26	3.0		1:BUNKC:12-40=9200
008	070_008	X	TANKCHECK				03/10/08 09:54	1.0		
009	070_009	BLANK	QC431821	S	Water	135715	03/10/08 10:27	1.0		
010	070_010	BS	QC431822	S	Water	135715	03/10/08 10:55	1.0		
011	070_011	BSD	QC431823	S	Water	135715	03/10/08 11:23	1.0		
012	070_012	SAMPLE	201715-002	S	Water	135715	03/10/08 12:01	1.0		
013	070_013	SAMPLE	201715-003	S	Water	135715	03/10/08 12:29	1.0		
014	070_014	SAMPLE	201715-004	S	Water	135715	03/10/08 12:58	1.0		
015	070_015	X	IB				03/10/08 13:26	1.0		
016	070_016	MS	QC432036	S	Soil	135772	03/10/08 13:54	1.0		
017	070_017	MSD	QC432037	S	Soil	135772	03/10/08 14:23	1.0		
018	070_018	CCV	DSL_500				03/10/08 14:51	1.0	4	
019	070_019	CCV	MO_500				03/10/08 15:19	1.0	3	
020	070_020	SAMPLE	201781-008		Soil	135756	03/10/08 15:48	1.0		
021	070_021	SAMPLE	201397-009		Soil	135567	03/10/08 16:17	1.0		
022	070_022	SAMPLE	201781-009		Soil	135756	03/10/08 18:07	1.0		
023	070_023	X	IB				03/10/08 18:35	1.0		
024	070_024	SAMPLE	201547-004		Water	135478	03/10/08 19:04	1.0		
025	070_025	SAMPLE	201615-013	S	Water	135554	03/10/08 19:32	1.0		
026	070_026	SAMPLE	201615-014	S	Water	135554	03/10/08 20:00	1.0		
027	070_027	SAMPLE	201743-010		Soil	135683	03/10/08 20:28	20.0		
028	070_028	X	IB				03/10/08 20:57	1.0		
029	070_029	SAMPLE	201615-012	S	Water	135554	03/10/08 21:25	1.0		
030	070_030	SAMPLE	201615-011	S	Water	135554	03/10/08 21:53	1.0		
031	070_031	SAMPLE	201615-009	S	Water	135554	03/10/08 22:21	1.0		
032	070_032	X	CMARKER				03/10/08 22:48	1.0	1	
033	070_033	CCV	DSL_1000				03/10/08 23:16	1.0	5	
034	070_034	CCV	MO_500				03/10/08 23:44	1.0	3	
035	070_035	CCV	BUNK_1250				03/11/08 00:12	1.0	6	
036	070_036	X	CCV				03/11/08 00:40	1.0	5	
037	070_037	X	CCV				03/11/08 01:08	1.0	3	
038	070_038	X	CCV				03/11/08 01:36	1.0	6	
039	070_039	SAMPLE	201743-001		Soil	135683	03/11/08 02:03	25.0		
040	070_040	MSS	201743-003		Soil	135683	03/11/08 02:31	10.0		
041	070_041	SAMPLE	201743-004		Soil	135683	03/11/08 02:59	5.0		1:BUNKC:12-40=6900
042	070_042	SAMPLE	201743-005		Soil	135683	03/11/08 03:26	3.0		
043	070_043	X	IB				03/11/08 03:54	1.0		
044	070_044	MS	QC431696		Soil	135683	03/11/08 04:22	25.0		
045	070_045	MSD	QC431697		Soil	135683	03/11/08 04:49	25.0		
046	070_046	SAMPLE	201743-007		Soil	135683	03/11/08 05:17	10.0		
047	070_047	SAMPLE	201743-002		Soil	135683	03/11/08 05:45	25.0		
048	070_048	SAMPLE	201743-006		Soil	135683	03/11/08 06:12	20.0		
049	070_049	X	IB				03/11/08 06:40	1.0		
050	070_050	BLANK	QC431694		Soil	135683	03/11/08 07:07	1.0		
051	070_051	CCV	DSL_500				03/11/08 07:35	1.0	4	
052	070_052	CCV	MO_500				03/11/08 08:03	1.0	3	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228101200

Instrument : GC14B
Method : EPA 8015B
Begun : 03/10/08 06:40
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	070_053	CCV	BUNK_1250				03/11/08 08:31	1.0	6	
054	070_054	SAMPLE	201746-001		Water	135715	03/11/08 08:58	1.0		
055	070_055	SAMPLE	201746-002		Water	135715	03/11/08 09:26	1.0		
056	070_056	BLANK	QC431821		Water	135715	03/11/08 09:54	1.0		
057	070_057	SAMPLE	201743-009		Soil	135683	03/11/08 10:22	3.0		1:BUNKC:12-40=6700
058	070_058	SAMPLE	201743-008		Soil	135683	03/11/08 10:50	25.0		
059	070_059	X	IB				03/11/08 11:18	1.0		
060	070_060	BLANK	QC431694		Soil	135683	03/11/08 11:47	1.0		
061	070_061	LCS	QC431695	S	Soil	135683	03/11/08 12:15	1.0		
062	070_062	X	CMARKER				03/11/08 12:43	1.0	1	
063	070_063	CCV	DSL_250				03/11/08 13:11	1.0	2	
064	070_064	CCV	MO_500				03/11/08 13:40	1.0	3	
065	070_065	CCV	BUNK_1250				03/11/08 14:08	1.0	6	
066	070_066	SAMPLE	201777-004		Water	135790	03/11/08 14:57	1.0		
067	070_067	SAMPLE	201777-005		Water	135790	03/11/08 15:26	1.0		
068	070_068	SAMPLE	201588-001		Water	135658	03/11/08 15:54	1.0		
069	070_069	X	CMARKER				03/11/08 16:22	1.0	1	
070	070_070	CCV	DSL_500				03/11/08 16:51	1.0	4	
071	070_071	CCV	MO_500				03/11/08 17:19	1.0	3	

Standards used: 1=S8590 2=S8077 3=S8071 4=S8078 5=S8079 6=S7967

SAMPLE PREPARATION SUMMARY

Batch # : 135640
Started By : SFL
Method : 3550B
Spike #1 ID : S8587

Prep Date : 06-MAR-2008

Spike #2 ID : S8463

Analysis : TEH
Finished By : SFL
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
201663-015		Soil	50.35	5	1	0.0993		1				TEHM	
201675-002		Soil	50.22	5	1	0.09956		1			3630C	TEHM	
201675-003		Soil	50.01	5	1	0.09998		1			3630C	TEHM	
201675-004		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
201675-005		Soil	50.04	5	1	0.09992		1			3630C	TEHM	
201675-006		Soil	50.17	5	1	0.09966		1			3630C	TEHM	
201675-007		Soil	50.01	5	1	0.09998		1			3630C	TEHM	
201675-008		Soil	50.18	5	1	0.09964		1			3630C	TEHM	
201675-009		Soil	50.28	5	1	0.09944		1			3630C	TEHM	
201675-010		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
201675-011		Soil	50.24	5	1	0.09952		1			3630C	TEHM	
201675-012		Soil	50.24	5	1	0.09952		1			3630C	TEHM	
201675-013		Soil	50.07	5	1	0.09986		1			3630C	TEHM	
201675-014		Soil	50.05	5	1	0.0999		1			3630C	TEHM	
201675-015		Soil	50.03	5	1	0.09994		1			3630C	TEHM	
201675-016		Soil	50.24	5	1	0.09952		1			3630C	TEHM	
201675-017		Soil	50.13	5	1	0.09974		1			3630C	TEHM	
201726-001		Soil	50.13	5	1	0.09974		1			3630C	(rebatched)	mss
201726-002		Soil	50.31	5	1	0.09938		1			3630C	TEHM	
201726-003		Soil	50.31	5	1	0.09938		1			3630C	TEHM	
QC431516	BLANK	Soil	50.12	5	1	0.09976		1			3630C		
QC431517	LCS	Soil	50.12	5	1	0.09976		1	1		3630C		
QC431680	MS	Soil	49.81	5	1	0.1004		1	1		3630C		
QC431681	MSD	Soil	50.23	5	1	0.09954		1	1		3630C		

JDG 03/10/08 : No MSS, MS/MSD will be reported in this batch. See CAR 3781.

Analyst: JDG Date: 03/10/08 Reviewer: LH Date: 03/10/08

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2628 Page 82

LIMS Batch No: 135640
LIMS Analysis TEHM
Date Extracted: 3/6/08

Extraction Method:
- ☐ Shaker Table
- ☑ EPA 3550 Sonication
- ☐ _____

Cleanup Method (if necessary):
- ☒ EPA 3630 Silica Gel
- ☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	201663-015	50.35	5.0		RE DO (RE-EXTRACT)
	MB QC 431516	50.12	↓	X	
	LCS ↓ 17	50.12	↓	X	
	201675-002A	50.22	5.0	X	
5	3	50.01			
	4	50.02			
	5	50.04			
	6	50.17			
	7	50.01			
10	8	50.18			
	9	50.28			
	10	50.02			
	11	50.24			
	12	50.24			
15	13	50.07			
	14	50.05			
	15	50.03			
	16	50.24			
	↓ 17 ↓	50.13			
20	201726-001A	50.13			MSS
	↓ 2	50.31			
	↓ 3 ↓	50.31			
	MS QC 431680	49.81			
	MSD ↓ 1	50.23	↓	↓	
					JJB 3/6/08

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM 47281748	3/6/08
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	↓ 47281804	
1.0 mL of Surrogate solution was added to all samples	C8587A	
1.0 mL of Matrix Spiking solution was added to all spikes	58463C	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all — CH_2Cl_2	EM480828	
Acetone	↓ 47190 58C 3/6/08	
Samples were: ☑ sonicated 3 times ☐ placed on shaker table at:	✓	
taken off shaker table at:	N/A	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM 47726104	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	

3/6/08
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/7/08
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: JSB
Cleanup Date: 3/6/08

Benchbook # **BK 2679**
Page 20

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
201675-002	135640	1.0	1.0	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
201726-001				MSS
2				
3				
MB QC 431516				
LCS ↓ 7				
MS QC 431680				
MSD ↓ 1				
				JSB 3/6/08

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	NA	JSB 3/6/08
☒ Extracts were cleaned up using 1.0 g cartridges	SP9742	
Extracts were eluted with 4.0 mL CH_2Cl_2	#N45028	
Concentrated to volumes as noted above	↓	

3/6/08
Extraction Chemist / Date

Continued from page —
Continued on page —

3/7/08
Reviewed by / Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
MS	50.05	TEHM		201627-007A
MSD	50.07	↓		↓
201677-001E	50.47	TEH		
2	50.23	↓		
3	50.96			
4D	49.69			
5E	50.03			
6	49.83			
7	50.32			
8	49.86			
9	50.31			
				KR 3/5/08
201655-001A	30.40	8270		
↓ -002 ↓	30.01	↓		
				KML 3/6/08
201541-001J	30.39	8270		MSS
MS	30.10			201541-001J
MSD	30.41	↓		↓
				KML 3/6/08
201663-015	50.35	TEH	135640	COMM 201663-009A-10A-11A
MB	50.12	↓	↓	EM4728 1748
LCS	50.12			↓
				SRL 3/6/08
201726-001A	50.13	TEHM	135640	MSS
↓ 2	50.31	↓	↓	
3 ↓	50.31			
MS	49.81			201726-001A
MSD	50.23	↓	↓	↓
				JJB 3/6/08

Continued on Page

Read and Understood By

Signed Date Signed Date

140 Project SOIL ALIQUOT BK2627

Continued from Page 139

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
201677-001E	30.13	8270		
2	30.35			
3	30.62			
4D	30.07			
5E	29.89			
6	29.89			
7	30.14			
8	30.26			
9	30.16			
201675-002	30.01	PCB		MSS
3	30.13			
4	30.07			
5	30.02			
BLANK	30.20			EM47281748
LCS	30.04			↓
MS	30.07			201675-003A
MSD	30.04			↓
201675-002A	30.22	TPHM	135640	
3	30.01			
4	30.02			
5	30.04			
6	30.17			MSS
7	30.01			
8	30.18			
9	30.28			
10	30.02			
11	30.24			
12	30.24			
13	30.07			
14	30.05			
15	30.03			
16	30.24			
17	30.13			EM47281748
BLANK	30.02			
LCS	30.11			

KR 3/5/08

Continued on Page 141

Signed

3/5/08
Date

Read and Understood By

Signed

Date

SAMPLE PREPARATION SUMMARY

Batch # : 135772
Started By : KML
Method : 3550B
Spike #1 ID : S8587

Prep Date : 10-MAR-2008

Spike #2 ID : S8463

Analysis : TEHM
Finished By : KML
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
201618-038		Soil	50.18	5	1	0.09964		1			3630C	TEHM	re-extract
201722-001		Soil	50.11	5	1	0.09978		1				TEHM	
201722-003		Soil	50.28	5	1	0.09944		1				TEHM	
201722-004		Soil	50.21	5	1	0.09958		1				TEHM	
201722-005		Soil	50.01	5	1	0.09998		1				TEHM	
201722-006		Soil	50.01	5	1	0.09998		1				TEHM	
201722-007		Soil	50.05	5	1	0.0999		1				TEHM	
201722-008		Soil	50.25	5	1	0.0995		1				TEHM	
201722-009		Soil	50.02	5	1	0.09996		1				TEHM	
201722-010		Soil	50.06	5	1	0.09988		1				TEHM	
201722-011		Soil	50.13	5	1	0.09974		1				TEHM	
201722-012		Soil	50.03	5	1	0.09994		1				TEHM	
201722-013		Soil	50.1	5	1	0.0998		1				TEHM	
201722-014		Soil	50	5	1	0.1000		1				TEHM	
201722-015		Soil	50.03	5	1	0.09994		1				TEHM	
201722-016		Soil	50.01	5	1	0.09998		1				TEHM	
201726-001		Soil	50.49	5	1	0.09903		1			3630C	TEHM	mss, re-extract
201781-010		Soil	50.04	5	1	0.09992		1				TEHM	
201781-011		Soil	50.25	5	1	0.0995		1				TEHM	
QC432034	BLANK	Soil	50.31	5	1	0.09938		1			3630C	TEHM	
QC432035	LCS	Soil	50.49	5	1	0.09903		1	1		3630C	TEHM	
QC432036	MS	Soil	50.09	5	1	0.09982		1	1		3630C	TEHM	
QC432037	MSD	Soil	50.14	5	1	0.09972		1	1		3630C	TEHM	

Analyst: JDG Date: 03/11/08 Reviewer: EAH Date: 03/12/08

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2628 Page 86

LIMS Batch No: 135772
LIMS Analysis TEHM
Date Extracted: 3/10/08

Extraction Method:
☐ Shaker Table
☒ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	201618-038 A	50.18	5.0	X	re-extract
	201726-001 A	50.49			MSS ↓
	MB QC432034	50.31			
	LCS 5	50.49			
5	MS 6	50.09			
	MSD ↓ 7	50.14	↓	↓	
	201722-001 A	50.11	5.0		
	3	50.28			
	4	50.21			
10	5	50.01			
	6	50.01			
	7	50.05			
	8	50.25			
	9	50.02			
15	10	50.06			
	11	50.13			
	12	50.03			
	13	50.16			
	14	50.06			
20	15	50.03			
	16 ↓	50.01			
	201781-010B	50.04			
	↓ 11 ↓	50.25	↓		

JOB 3/10/08

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47281748	KML 3/10/08
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47281804	
1.0 mL of Surrogate solution was added to all samples	585873	
1.0 mL of Matrix Spiking solution was added to all spikes	S8463C	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM48045	
Acetone (KML 3/10/08)	~~EM~~ EM47156	
Samples were: ☒ sonicated 3 times ☐ placed on shaker table at:	✓	
taken off shaker table at:	NA	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47281804	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	↓

3/10/08
Extraction Chemist / Date

Continued from page ___
Continued on page ___

3/10/08
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: KML
Cleanup Date: 3/10/08

Benchbook # **BK 2679**
Page 27

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
201618-038	135772	1.0	1.0	
201726-001	↓	↓	↓	MSS
MB QC432034	↓	↓	↓	
LCS 5	↓	↓	↓	
MS 6	↓	↓	↓	
MSD 7	↓	↓	↓	

DJT 3/10/08

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	NA	KML 3/10/08
☑ Extracts were cleaned up using 1.0 g cartridges	SP9742	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	EM48026	
Concentrated to volumes as noted above	✓	

KML 3/10/08
Extraction Chemist / Date

Continued from page —
Continued on page —

DJT 3/10/08
Reviewed by / Date

Project Soil Aliquot BK2627 147

Continued from Page —

Sample ID	Weight(g)	Analysis	Batch #	Comments
201618-038 A	50.18	TEH	135772	
201726-001 A	50.49			MSS
MB	50.31			EM472817748
LCS	50.49			↓
MS	50.09			201726-001A
MSD	50.14			↓
				KML 3/16/08

Continued on Page

Read and Understood By

Signed Date Signed Date

00105

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
201740-001E	50.11	PETM		
2	50.09			
3	50.08			
4	49.86			MSS
BLANK	50.03			EMK1781748
LCS	50.21			↓
MS	50.27			201740-004E
MSD	49.64	↓		↓
201722-001A	50.11	PETM	135772	
3	50.28			
4	50.21			
5	50.01			
6	50.01			
7	50.05			
8	50.25			
9	50.02			
10	50.06			
11	50.13			
12	50.03			
13	50.10			
14	50.00			
15	50.03			
16	50.01			
201722-001A	30.06	PCB		
2	30.04			
3	30.07			
4	30.23			
5	30.13			
6	30.29			
7	30.24			
8	30.26			
9	30.05			
10	30.09			
11	30.16			
12	30.11			
13	30.02			

Continued on Page 144

KRy 3/6/08
Signed Date

Read and Understood By
Signed Date

Project SOIL ALIQUOT BK2627 145

Continued from Page —

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
201758-001 A	30.03	8100		
2	30.09			
3	30.16			
4	30.23			
201758-001 A	30.06	8081		
2	30.02			
3	30.24			
4	30.31			
201781-001 B	30.35	8270		
2	30.09			
3	30.09			
4	30.09			
5	30.47			
6	30.05			
7	30.07			
8	30.04			
9	30.13			
10	30.31		13	NOT 3/14/08
11	30.08			
201781-001 B	50.05	TPHM		
2	50.32			
3	50.07			
4	50.06			
5	50.20			
6	50.31			
7	50.10			
8	50.37			
9	50.08			
10	50.04		135772	
11	50.25			
201781-001 B	30.42	PCB		
2	30.07			
3	30.05			
4	30.08			
5	30.00			
6	30.06			

Continued on Page 146

Signed — Date — Read and Understood By — Signed — Date

3/7/08

00107

Curtis & Tompkins, Ltd.

Volatile Organics Data (EPA 5035 Soil)

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX303[7.0]	Diln Fac:	0.7042
Lab ID:	201726-001	Batch#:	135652
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/06/08

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	8.4	0.18
Chloromethane	ND	8.4	0.36
Vinyl Chloride	ND	8.4	0.32
Bromomethane	ND	8.4	0.33
Chloroethane	ND	8.4	0.45
Trichlorofluoromethane	ND	4.2	0.48
Acetone	ND	17	2.8
Freon 113	ND	4.2	0.61
1,1-Dichloroethene	ND	4.2	0.30
Methylene Chloride	ND	17	1.6
Carbon Disulfide	ND	4.2	0.27
MTBE	ND	4.2	0.30
trans-1,2-Dichloroethene	ND	4.2	0.39
Vinyl Acetate	ND	42	0.90
1,1-Dichloroethane	ND	4.2	0.31
2-Butanone	ND	8.4	1.4
cis-1,2-Dichloroethene	ND	4.2	0.27
2,2-Dichloropropane	ND	4.2	0.24
Chloroform	ND	4.2	0.31
Bromochloromethane	ND	4.2	0.45
1,1,1-Trichloroethane	ND	4.2	0.24
1,1-Dichloropropene	ND	4.2	0.35
Carbon Tetrachloride	ND	4.2	0.39
1,2-Dichloroethane	ND	4.2	0.46
Benzene	ND	4.2	0.39
Trichloroethene	ND	4.2	0.23
1,2-Dichloropropane	ND	4.2	0.32
Bromodichloromethane	ND	4.2	0.37
Dibromomethane	ND	4.2	0.53
4-Methyl-2-Pentanone	ND	8.4	1.1
cis-1,3-Dichloropropene	ND	4.2	0.39
Toluene	ND	4.2	0.42
trans-1,3-Dichloropropene	ND	4.2	0.29
1,1,2-Trichloroethane	ND	4.2	0.50
2-Hexanone	ND	8.4	0.96
1,3-Dichloropropane	ND	4.2	0.28
Tetrachloroethene	ND	4.2	0.71
Dibromochloromethane	ND	4.2	0.35
1,2-Dibromoethane	ND	4.2	0.37
Chlorobenzene	ND	4.2	0.27
1,1,1,2-Tetrachloroethane	ND	4.2	0.41
Ethylbenzene	ND	4.2	0.50
m,p-Xylenes	ND	4.2	1.1
o-Xylene	ND	4.2	0.50
Styrene	ND	4.2	0.37
Bromoform	ND	4.2	0.33
Isopropylbenzene	ND	4.2	0.71
1,1,2,2-Tetrachloroethane	ND	4.2	0.36
1,2,3-Trichloropropane	ND	4.2	0.33
Propylbenzene	ND	4.2	0.80

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX303[7.0]	Diln Fac:	0.7042
Lab ID:	201726-001	Batch#:	135652
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/06/08

Analyte	Result	RL	MDL
Bromobenzene	ND	4.2	0.54
1,3,5-Trimethylbenzene	ND	4.2	0.77
2-Chlorotoluene	ND	4.2	0.69
4-Chlorotoluene	ND	4.2	0.67
tert-Butylbenzene	ND	4.2	0.82
1,2,4-Trimethylbenzene	ND	4.2	0.75
sec-Butylbenzene	ND	4.2	0.83
para-Isopropyl Toluene	ND	4.2	0.86
1,3-Dichlorobenzene	ND	4.2	0.74
1,4-Dichlorobenzene	ND	4.2	0.83
n-Butylbenzene	ND	4.2	0.82
1,2-Dichlorobenzene	ND	4.2	0.68
1,2-Dibromo-3-Chloropropane	ND	4.2	0.41
1,2,4-Trichlorobenzene	ND	4.2	0.65
Hexachlorobutadiene	ND	4.2	1.0
Naphthalene	ND	4.2	0.27
1,2,3-Trichlorobenzene	ND	4.2	0.66

Surrogate	%REC	Limits
Dibromofluoromethane	129 *	78-126
1,2-Dichloroethane-d4	125	76-137
Toluene-d8	104	80-120
Bromofluorobenzene	121	80-121

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX304[7.5]	Diln Fac:	0.7246
Lab ID:	201726-002	Batch#:	135652
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/06/08

Moisture: 15%

Analyte	Result	RL	MDL
Freon 12	ND	8.5	0.18
Chloromethane	ND	8.5	0.37
Vinyl Chloride	ND	8.5	0.33
Bromomethane	ND	8.5	0.33
Chloroethane	ND	8.5	0.46
Trichlorofluoromethane	ND	4.3	0.49
Acetone	7.7 J b	17	2.8
Freon 113	ND	4.3	0.62
1,1-Dichloroethene	ND	4.3	0.30
Methylene Chloride	ND	17	1.6
Carbon Disulfide	ND	4.3	0.27
MTBE	ND	4.3	0.30
trans-1,2-Dichloroethene	ND	4.3	0.40
Vinyl Acetate	ND	43	0.92
1,1-Dichloroethane	ND	4.3	0.31
2-Butanone	ND	8.5	1.4
cis-1,2-Dichloroethene	ND	4.3	0.27
2,2-Dichloropropane	ND	4.3	0.24
Chloroform	ND	4.3	0.31
Bromochloromethane	ND	4.3	0.45
1,1,1-Trichloroethane	ND	4.3	0.24
1,1-Dichloropropene	ND	4.3	0.36
Carbon Tetrachloride	ND	4.3	0.39
1,2-Dichloroethane	ND	4.3	0.47
Benzene	ND	4.3	0.39
Trichloroethene	ND	4.3	0.23
1,2-Dichloropropane	ND	4.3	0.33
Bromodichloromethane	ND	4.3	0.38
Dibromomethane	ND	4.3	0.54
4-Methyl-2-Pentanone	ND	8.5	1.1
cis-1,3-Dichloropropene	ND	4.3	0.39
Toluene	ND	4.3	0.42
trans-1,3-Dichloropropene	ND	4.3	0.29
1,1,2-Trichloroethane	ND	4.3	0.50
2-Hexanone	ND	8.5	0.97
1,3-Dichloropropane	ND	4.3	0.29
Tetrachloroethene	ND	4.3	0.72
Dibromochloromethane	ND	4.3	0.36
1,2-Dibromoethane	ND	4.3	0.38
Chlorobenzene	ND	4.3	0.27
1,1,1,2-Tetrachloroethane	ND	4.3	0.42
Ethylbenzene	ND	4.3	0.51
m,p-Xylenes	ND	4.3	1.1
o-Xylene	ND	4.3	0.50
Styrene	ND	4.3	0.38
Bromoform	ND	4.3	0.34
Isopropylbenzene	ND	4.3	0.72
1,1,2,2-Tetrachloroethane	ND	4.3	0.37

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

10.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX304[7.5]	Diln Fac:	0.7246
Lab ID:	201726-002	Batch#:	135652
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/06/08

Analyte	Result	RL	MDL
1,2,3-Trichloropropane	ND	4.3	0.33
Propylbenzene	ND	4.3	0.81
Bromobenzene	ND	4.3	0.55
1,3,5-Trimethylbenzene	ND	4.3	0.79
2-Chlorotoluene	ND	4.3	0.70
4-Chlorotoluene	ND	4.3	0.68
tert-Butylbenzene	ND	4.3	0.84
1,2,4-Trimethylbenzene	ND	4.3	0.76
sec-Butylbenzene	ND	4.3	0.84
para-Isopropyl Toluene	ND	4.3	0.88
1,3-Dichlorobenzene	ND	4.3	0.76
1,4-Dichlorobenzene	ND	4.3	0.84
n-Butylbenzene	ND	4.3	0.83
1,2-Dichlorobenzene	ND	4.3	0.69
1,2-Dibromo-3-Chloropropane	ND	4.3	0.41
1,2,4-Trichlorobenzene	ND	4.3	0.66
Hexachlorobutadiene	ND	4.3	1.0
Naphthalene	ND	4.3	0.28
1,2,3-Trichlorobenzene	ND	4.3	0.67

Surrogate	%REC	Limits
Dibromofluoromethane	127 *	78-126
1,2-Dichloroethane-d4	123	76-137
Toluene-d8	104	80-120
Bromofluorobenzene	121	80-121

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

10.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP030608	Diln Fac:	0.8475
Lab ID:	201726-003	Batch#:	135652
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/06/08

Moisture: 20%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.22
Chloromethane	ND	11	0.46
Vinyl Chloride	ND	11	0.41
Bromomethane	ND	11	0.41
Chloroethane	ND	11	0.57
Trichlorofluoromethane	ND	5.3	0.61
Acetone	4.2 J b	21	3.5
Freon 113	ND	5.3	0.78
1,1-Dichloroethene	ND	5.3	0.38
Methylene Chloride	ND	21	2.0
Carbon Disulfide	ND	5.3	0.34
MTBE	ND	5.3	0.38
trans-1,2-Dichloroethene	ND	5.3	0.50
Vinyl Acetate	ND	53	1.1
1,1-Dichloroethane	ND	5.3	0.39
2-Butanone	ND	11	1.8
cis-1,2-Dichloroethene	ND	5.3	0.34
2,2-Dichloropropane	ND	5.3	0.30
Chloroform	ND	5.3	0.39
Bromochloromethane	ND	5.3	0.56
1,1,1-Trichloroethane	ND	5.3	0.30
1,1-Dichloropropene	ND	5.3	0.44
Carbon Tetrachloride	ND	5.3	0.49
1,2-Dichloroethane	ND	5.3	0.59
Benzene	ND	5.3	0.49
Trichloroethene	ND	5.3	0.29
1,2-Dichloropropane	ND	5.3	0.41
Bromodichloromethane	ND	5.3	0.47
Dibromomethane	ND	5.3	0.67
4-Methyl-2-Pentanone	ND	11	1.4
cis-1,3-Dichloropropene	ND	5.3	0.49
Toluene	ND	5.3	0.53
trans-1,3-Dichloropropene	ND	5.3	0.37
1,1,2-Trichloroethane	ND	5.3	0.63
2-Hexanone	ND	11	1.2
1,3-Dichloropropane	ND	5.3	0.36
Tetrachloroethene	ND	5.3	0.90
Dibromochloromethane	ND	5.3	0.45
1,2-Dibromoethane	ND	5.3	0.47
Chlorobenzene	ND	5.3	0.34
1,1,1,2-Tetrachloroethane	ND	5.3	0.52
Ethylbenzene	ND	5.3	0.63
m,p-Xylenes	ND	5.3	1.4
o-Xylene	ND	5.3	0.63
Styrene	ND	5.3	0.47
Bromoform	ND	5.3	0.42
Isopropylbenzene	ND	5.3	0.90
1,1,2,2-Tetrachloroethane	ND	5.3	0.45

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP030608	Diln Fac:	0.8475
Lab ID:	201726-003	Batch#:	135652
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/06/08

Analyte	Result	RL	MDL
1,2,3-Trichloropropane	ND	5.3	0.41
Propylbenzene	ND	5.3	1.0
Bromobenzene	ND	5.3	0.68
1,3,5-Trimethylbenzene	ND	5.3	0.98
2-Chlorotoluene	ND	5.3	0.87
4-Chlorotoluene	ND	5.3	0.85
tert-Butylbenzene	ND	5.3	1.0
1,2,4-Trimethylbenzene	ND	5.3	0.95
sec-Butylbenzene	ND	5.3	1.0
para-Isopropyl Toluene	ND	5.3	1.1
1,3-Dichlorobenzene	ND	5.3	0.94
1,4-Dichlorobenzene	ND	5.3	1.0
n-Butylbenzene	ND	5.3	1.0
1,2-Dichlorobenzene	ND	5.3	0.86
1,2-Dibromo-3-Chloropropane	ND	5.3	0.51
1,2,4-Trichlorobenzene	ND	5.3	0.82
Hexachlorobutadiene	ND	5.3	1.3
Naphthalene	ND	5.3	0.34
1,2,3-Trichlorobenzene	ND	5.3	0.83

Surrogate	%REC	Limits
Dibromofluoromethane	125	78-126
1,2-Dichloroethane-d4	121	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	123 *	80-121

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC431570	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135652
Units:	ug/Kg	Analyzed:	03/06/08

Analyte	Result	RL	MDL
Freon 12	ND	10	0.21
Chloromethane	ND	10	0.43
Vinyl Chloride	ND	10	0.38
Bromomethane	ND	10	0.39
Chloroethane	ND	10	0.53
Trichlorofluoromethane	ND	5.0	0.58
Acetone	ND	20	3.3
Freon 113	ND	5.0	0.73
1,1-Dichloroethene	ND	5.0	0.36
Methylene Chloride	ND	20	1.9
Carbon Disulfide	ND	5.0	0.32
MTBE	ND	5.0	0.35
trans-1,2-Dichloroethene	ND	5.0	0.47
Vinyl Acetate	ND	50	1.1
1,1-Dichloroethane	ND	5.0	0.37
2-Butanone	ND	10	1.7
cis-1,2-Dichloroethene	ND	5.0	0.32
2,2-Dichloropropane	ND	5.0	0.29
Chloroform	ND	5.0	0.37
Bromochloromethane	ND	5.0	0.53
1,1,1-Trichloroethane	ND	5.0	0.29
1,1-Dichloropropene	ND	5.0	0.42
Carbon Tetrachloride	ND	5.0	0.46
1,2-Dichloroethane	ND	5.0	0.55
Benzene	ND	5.0	0.46
Trichloroethene	ND	5.0	0.28
1,2-Dichloropropane	ND	5.0	0.38
Bromodichloromethane	ND	5.0	0.45
Dibromomethane	ND	5.0	0.63
4-Methyl-2-Pentanone	ND	10	1.3
cis-1,3-Dichloropropene	ND	5.0	0.46
Toluene	ND	5.0	0.50
trans-1,3-Dichloropropene	ND	5.0	0.34
1,1,2-Trichloroethane	ND	5.0	0.59
2-Hexanone	ND	10	1.1
1,3-Dichloropropane	ND	5.0	0.34
Tetrachloroethene	ND	5.0	0.85
Dibromochloromethane	ND	5.0	0.42
1,2-Dibromoethane	ND	5.0	0.44
Chlorobenzene	ND	5.0	0.32
1,1,1,2-Tetrachloroethane	ND	5.0	0.49
Ethylbenzene	ND	5.0	0.60
m,p-Xylenes	ND	5.0	1.3
o-Xylene	ND	5.0	0.59
Styrene	ND	5.0	0.45
Bromoform	ND	5.0	0.40
Isopropylbenzene	ND	5.0	0.85
1,1,2,2-Tetrachloroethane	ND	5.0	0.43
1,2,3-Trichloropropane	ND	5.0	0.39
Propylbenzene	ND	5.0	0.95
Bromobenzene	ND	5.0	0.64
1,3,5-Trimethylbenzene	ND	5.0	0.92
2-Chlorotoluene	ND	5.0	0.82

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

12.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC431570	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135652
Units:	ug/Kg	Analyzed:	03/06/08

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	5.0	0.80
tert-Butylbenzene	ND	5.0	0.98
1,2,4-Trimethylbenzene	ND	5.0	0.89
sec-Butylbenzene	ND	5.0	0.99
para-Isopropyl Toluene	ND	5.0	1.0
1,3-Dichlorobenzene	ND	5.0	0.89
1,4-Dichlorobenzene	ND	5.0	0.99
n-Butylbenzene	ND	5.0	0.98
1,2-Dichlorobenzene	ND	5.0	0.81
1,2-Dibromo-3-Chloropropane	ND	5.0	0.48
1,2,4-Trichlorobenzene	ND	5.0	0.77
Hexachlorobutadiene	ND	5.0	1.2
Naphthalene	ND	5.0	0.32
1,2,3-Trichlorobenzene	ND	5.0	0.78

Surrogate	%REC	Limits
Dibromofluoromethane	121	78-126
1,2-Dichloroethane-d4	123	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	119	80-121

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	135652
Basis:	as received	Analyzed:	03/06/08

Type: BS Lab ID: QC431571

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	18.75	21.89	117	71-133
Benzene	18.75	20.11	107	79-123
Trichloroethene	18.75	20.77	111	79-124
Toluene	18.75	19.62	105	80-123
Chlorobenzene	18.75	20.21	108	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	120	78-126
1,2-Dichloroethane-d4	117	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	111	80-121

Type: BSD Lab ID: QC431572

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	18.75	22.55	120	71-133	3	20
Benzene	18.75	21.15	113	79-123	5	20
Trichloroethene	18.75	21.75	116	79-124	5	20
Toluene	18.75	20.60	110	80-123	5	20
Chlorobenzene	18.75	21.06	112	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	119	78-126
1,2-Dichloroethane-d4	120	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	113	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX303[7.0]	Batch#:	135652
MSS Lab ID:	201726-001	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	ug/Kg	Analyzed:	03/06/08
Basis:	dry		

Type:	MS	Moisture:	16%
Lab ID:	QC431654	Diln Fac:	0.7692

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.2995	45.79	40.86	89	55-139
Benzene	<0.3862	45.79	36.02	79	55-120
Trichloroethene	<0.2306	45.79	36.64	80	47-140
Toluene	<0.4179	45.79	34.53	75	52-121
Chlorobenzene	<0.2697	45.79	34.82	76	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	132 *	78-126
1,2-Dichloroethane-d4	129	76-137
Toluene-d8	106	80-120
Bromofluorobenzene	113	80-121

Type:	MSD	Moisture:	16%
Lab ID:	QC431655	Diln Fac:	0.7353

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	43.77	32.90	75	55-139	17	29
Benzene	43.77	31.13	71	55-120	10	26
Trichloroethene	43.77	30.52	70	47-140	14	28
Toluene	43.77	29.39	67	52-121	12	29
Chlorobenzene	43.77	30.57	70	47-120	9	29

Surrogate	%REC	Limits
Dibromofluoromethane	136 *	78-126
1,2-Dichloroethane-d4	137	76-137
Toluene-d8	105	80-120
Bromofluorobenzene	114	80-121

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 201726 MSVOA Soil
EPA 8260B

Inst : MSVOA07 Run Name : BFB IDF : 1.0
Seqnum : 468055392003 File : gb703 Time : 07-FEB-2008 12:22

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	30460	28.21	
75	30% - 60% of mass 95	64267	59.53	
95		107962		
96	5% - 9% of mass 95	7943	7.36	
173	< 2% of mass 174	222	0.32	
174	> 50% and < 100% of mass 95	69776	64.63	
175	5% - 9% of mass 174	5871	8.41	
176	> 95% and < 101% of mass 174	67496	96.73	
177	5% - 9% of mass 176	4875	7.22	

Analyst: TEW Date: 02/07/08 Reviewer: LW Date: 02/08/08

468055392003

CURTIS & TOMPKINS BFB TUNE FOR 201726 MSVOA Soil
EPA 8260B

Inst : MSVOA07 Run Name : BFB IDF : 1.0
Seqnum : 468056779003 File : gb803 Time : 08-FEB-2008 11:03

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	10996	28.56	
75	30% - 60% of mass 95	22579	58.64	
95		38505		
96	5% - 9% of mass 95	2512	6.52	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	22696	58.94	
175	5% - 9% of mass 174	1866	8.22	
176	> 95% and < 101% of mass 174	21972	96.81	
177	5% - 9% of mass 176	1234	5.62	

Analyst: BO Date: 02/08/08 Reviewer: LW Date: 02/08/08

468056779003

CURTIS & TOMPKINS BFB TUNE FOR 201726 MSVOA Soil
EPA 8260B

Inst : MSVOA07 Run Name : BFB IDF : 1.0
Seqnum : 468095710003 File : gc603 Time : 06-MAR-2008 12:26

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	36578	25.42	
75	30% - 60% of mass 95	80982	56.28	
95		143896		
96	5% - 9% of mass 95	9779	6.80	
173	< 2% of mass 174	509	0.64	
174	> 50% and < 100% of mass 95	79477	55.23	
175	5% - 9% of mass 174	5230	6.58	
176	> 95% and < 101% of mass 174	75707	95.26	
177	5% - 9% of mass 176	5437	7.18	

Analyst: TEW Date: 03/06/08 Reviewer: LW Date: 03/10/08

468095710003

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 MSVOA Soil: EPA 8260B

Inst : MSVOA07 Name : 826GOX7S
Calnum : 468055392001 Date : 07-FEB-2008 14:02 Type : SOIL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	gb706	468055392006	2.5PPB	07-FEB-2008 14:02	S8124 (20000X), S8121 (20000X), S8073 (5000X)
L2	gb707	468055392007	5PPB	07-FEB-2008 14:35	S8124 (10000X), S8121 (10000X), S8073 (5000X)
L3	gb708	468055392008	10PPB	07-FEB-2008 15:07	S8124 (5000X), S8121 (5000X), S8073 (5000X)
L4	gb709	468055392009	20PPB	07-FEB-2008 15:40	S8123 (25000X), S7976 (25000X), S8073 (5000X)
L5	gb710	468055392010	50PPB	07-FEB-2008 16:12	S8123 (10000X), S7976 (10000X), S8073 (5000X)
L6	gb711	468055392011	60PPB	07-FEB-2008 16:44	S8123 (8333X), S7976 (8333X), S8073 (5000X)
L7	gb712	468055392012	75PPB	07-FEB-2008 17:16	S8123 (6667X), S7976 (6667X), S8073 (5000X)
L8	gb713	468055392013	100PPB	07-FEB-2008 17:49	S8123 (5000X), S7976 (5000X), S8073 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		1.2860	1.3757	1.2855	1.3748	1.4115	1.6688	1.2008	AVRG		0.72893		1.3719	11	15	0.05	0.99	
Chloromethane		1.7422	1.7876	1.6964	1.7469	1.7747	1.9969	1.7335	AVRG		0.56098		1.7826	6	15	0.10	0.99	
Vinyl Chloride	1.6312	1.5300	1.5890	1.4978	1.5836	1.6155	1.8672	1.4944	AVRG		0.62457		1.6011	7	15	0.05	0.99	
Bromomethane		0.8467	0.8921	0.7946	0.8036	0.8248	0.9478	0.8426	AVRG		1.17603		0.8503	6	15	0.05	0.99	
Chloroethane		0.8995	0.8491	0.8388	0.9014	0.8669	1.0262	0.8419	AVRG		1.12470		0.8891	7	15	0.05	0.99	
Trichlorofluoromethane		1.3938	1.4577	1.3793	1.4739	1.4980	1.7737	1.3016	AVRG		0.68107		1.4683	10	15	0.05	0.99	
Acetone		0.2886	0.2526	0.2568	0.2303	0.2016	0.2475	0.2126	AVRG		4.14201		0.2414	12	15	0.05	0.99	
Freon 113		0.8179	0.8216	0.8600	0.8530	0.8591	0.9963	0.8276	AVRG		1.15978		0.8622	7	15	0.05	0.99	
1,1-Dichloroethene		0.7106	0.6837	0.7059	0.7085	0.7209	0.8421	0.7152	AVRG		1.37610		0.7267	7	15	0.05	0.99	
Methylene Chloride		1.0702	0.8855	0.7681	0.7726	0.7913	0.8658	0.8099	AVRG		1.17381		0.8519	12	15	0.05	0.99	
Carbon Disulfide		2.6227	2.6577	2.7520	2.8586	2.9143	3.3758	2.8884	AVRG		0.34879		2.8671	9	15	0.05	0.99	
MTBE		2.1431	2.0646	2.0616	2.1405	2.1457	2.3745	2.2177	AVRG		0.46212		2.1640	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.7939	0.7915	0.7693	0.8047	0.8143	0.9404	0.8285	AVRG		1.21896		0.8204	7	15	0.05	0.99	
Vinyl Acetate		1.6297	1.6395	1.7351	1.8375	1.7716	2.0951	1.8998	AVRG		0.55519		1.8012	9	15	0.05	0.99	
1,1-Dichloroethane		1.8319	1.7472	1.7239	1.7977	1.8434	2.0656	1.8655	AVRG		0.54369		1.8393	6	15	0.10	0.99	
2-Butanone		0.3263	0.3118	0.3340	0.3289	0.3211	0.3866	0.3258	AVRG		2.99858		0.3335	7	15	0.05	0.99	
2,2-Dichloropropane		1.5732	1.5039	1.5050	1.5215	1.5447	1.7545	1.5191	AVRG		0.64092		1.5603	6	15	0.05	0.99	
cis-1,2-Dichloroethene		0.8166	0.7993	0.7809	0.8124	0.8415	0.9310	0.8618	AVRG		1.19792		0.8348	6	15	0.05	0.99	
Chloroform		1.5240	1.4537	1.4163	1.5034	1.5427	1.7146	1.5836	AVRG		0.65188		1.5340	6	15	0.05	0.99	
Bromochloromethane		0.3113	0.2885	0.2883	0.2926	0.3023	0.3264	0.3052	AVRG		3.31028		0.3021	5	15	0.05	0.99	
1,1,1-Trichloroethane		1.4299	1.4083	1.4140	1.4231	1.4551	1.6696	1.4345	AVRG		0.68396		1.4621	6	15	0.05	0.99	
1,1-Dichloropropene		0.8027	0.7692	0.7844	0.7872	0.8040	0.9171	0.7862	AVRG		1.23879		0.8072	6	15	0.05	0.99	
Carbon Tetrachloride		0.6717	0.6607	0.6791	0.6802	0.6971	0.7915	0.6785	AVRG		1.44070		0.6941	6	15	0.05	0.99	
1,2-Dichloroethane		0.6335	0.5987	0.5921	0.6176	0.6283	0.6785	0.6361	AVRG		1.59642		0.6264	5	15	0.05	0.99	
Benzene		2.1671	2.0967	2.0209	2.0699	2.1235	2.3273	2.1215	AVRG		0.46895		2.1324	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4960	0.4925	0.4822	0.4895	0.5003	0.5598	0.4976	AVRG		1.98982		0.5026	5	15	0.05	0.99	
1,2-Dichloropropane		0.5963m	0.5681m	0.5568m	0.5690m	0.5787m	0.6280	0.5796	AVRG		1.71718		0.5824	4	15	0.05	0.99	
Bromodichloromethane		0.6256	0.6159	0.5896	0.6139	0.6378	0.6812	0.6435	AVRG		1.58819		0.6296	5	15	0.05	0.99	
Dibromomethane		0.2100	0.2084	0.2029	0.2081	0.2115	0.2301	0.2165	AVRG		4.70603		0.2125	4	15	0.05	0.99	
4-Methyl-2-Pentanone		0.4135	0.4162	0.4243	0.4357	0.4322	0.4885	0.4296	AVRG		2.30257		0.4343	6	15	0.05	0.99	
cis-1,3-Dichloropropene		0.7736	0.7530	0.7266	0.7561	0.7760	0.8224	0.7774	AVRG		1.29988		0.7693	4	15	0.05	0.99	
Toluene		1.3596	1.2832	1.2354	1.2502	1.2776	1.4088	1.2746	AVRG		0.77013		1.2985	5	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6965	0.6507	0.6428	0.6719	0.6797	0.7272	0.6856	AVRG		1.47230		0.6792	4	15	0.05	0.99	
1,1,2-Trichloroethane		0.1794	0.1659	0.1627	0.1671	0.1696	0.1832	0.1683	AVRG		5.85123		0.1709	4	15	0.05	0.99	
2-Hexanone		0.2855	0.3028	0.3207	0.3326	0.3207	0.3725	0.3333	AVRG		3.08637		0.3240	8	15	0.05	0.99	
1,3-Dichloropropane		0.6989	0.6642	0.6432	0.6699	0.6858	0.7325	0.6918	AVRG		1.46250		0.6838	4	15	0.05	0.99	
Tetrachloroethene		0.4741	0.4555	0.4584	0.4656	0.4730	0.5261	0.4644	AVRG		2.11033		0.4739	5	15	0.05	0.99	
Dibromochloromethane		0.3980	0.3799	0.3597	0.3765	0.3885	0.4116	0.3938	AVRG		2.58480		0.3869	4	15	0.05	0.99	
1,2-Dibromoethane		0.2764	0.2729	0.2709	0.2787	0.2773	0.3028	0.2792	AVRG		3.57468		0.2797	4	15	0.05	0.99	
Chlorobenzene		1.3531	1.2891	1.2420	1.2932	1.3260	1.4018	1.3329	AVRG		0.75773		1.3197	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4610	0.4231	0.4060	0.4290	0.4501	0.4723	0.4576	AVRG		2.25873		0.4427	5	15	0.05	0.99	
Ethylbenzene		2.8889	2.7528	2.6745	2.7205	2.7764	3.0195	2.7682	AVRG		0.35713		2.8001	4	15	0.05	0.99	
m,p-Xylenes	1.0888	1.0486	0.9940	0.9825	1.0056	1.0373	1.1294	1.0485	AVRG		0.95984		1.0418	5	15	0.05	0.99	
o-Xylene		0.9994	0.9484	0.9285	0.9503	0.9775	1.0527	1.0018	AVRG		1.02062		0.9798	4	15	0.05	0.99	
Styrene		1.5789	1.5281	1.4799	1.5580	1.6035	1.7062	1.6452	AVRG		0.63064		1.5857	5	15	0.05	0.99	
Bromoform		0.2017	0.1979	0.1912	0.2015	0.2044	0.2199	0.2076	AVRG		4.91493		0.2035	4	15	0.10	0.99	
Isopropylbenzene		5.5173	5.2477	5.2239	5.1466	5.3329	5.8006	5.1590	AVRG		0.18703		5.3469	4	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.8897	0.8032	0.8175	0.8118	0.8170	0.9064	0.8259	AVRG		1.19220		0.8388	5	15	0.30	0.99	
1,2,3-Trichloropropane		0.9788	0.8761	0.8820	0.8913	0.8952	0.9900	0.9104	AVRG		1.08970		0.9177	5	15	0.05	0.99	
Propylbenzene		6.9084	6.6827	6.6412	6.5545	6.7624	7.4225	6.5669	AVRG		0.14725		6.7912	4	15	0.05	0.99	
Bromobenzene		0.9767	0.9018	0.8551	0.9004	0.9289	0.9867	0.9625	AVRG		1.07493		0.9303	5	15	0.05	0.99	
1,3,5-Trimethylbenzene		4.6600	4.4391	4.4270	4.4305	4.6065	4.9777	4.6053	AVRG		0.21776		4.5923	4	15	0.05	0.99	
2-Chlorotoluene		4.4428	4.2249	4.1168	4.1645	4.3381	4.6580	4.3397	AVRG		0.23114		4.3264	4	15	0.05	0.99	
4-Chlorotoluene		3.9121	3.7775	3.6695	3.6686	3.7960	4.0458	3.7694	AVRG		0.26277		3.8056	4	15	0.05	0.99	
tert-Butylbenzene		4.0259	3.8214	3.8573	3.7680	3.9028	4.2753	3.8323	AVRG		0.25470		3.9262	4	15	0.05	0.99	
1,2,4-Trimethylbenzene		4.5587	4.3460	4.2277	4.2941	4.4426	4.7460	4.4220	AVRG		0.22554		4.4339	4	15	0.05	0.99	
sec-Butylbenzene		6.1610	5.9784	5.9934	5.8342	6.0304	6.6617	5.8209	AVRG		0.16478		6.0686	5	15	0.05	0.99	
para-Isopropyl Toluene		4.8095	4.7274	4.7773	4.7572	4.9776	5.4655	4.8279	AVRG		0.20383		4.9060	5	15	0.05	0.99	
1,3-Dichlorobenzene		1.9305	1.8583	1.7777	1.8171	1.8963	2.0114	1.9011	AVRG		0.53061		1.8846	4	15	0.05	0.99	
1,4-Dichlorobenzene		1.9646	1.8676	1.7950	1.8363	1.9079	2.0123	1.9161	AVRG		0.52633		1.9000	4	15	0.05	0.99	
n-Butylbenzene		4.3930	4.6276	4.8563	4.8102	5.0301	5.5698	4.8749	AVRG		0.20491		4.8803	8	15	0.05	0.99	
1,2-Dichlorobenzene		1.7587	1.6504	1.6076	1.6374	1.7006	1.7994	1.7219	AVRG		0.58942		1.6966	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1860	0.1676	0.1708	0.1804	0.1765	0.2033	0.1848	AVRG		5.51466		0.1813	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8648	0.9342	0.9784	1.0838	1.1610	1.2269	1.1697	AVRG		0.94354		1.0598	13	15	0.05	0.99	
Hexachlorobutadiene		0.7420	0.7617	0.7782	0.7571	0.8186	0.9168	0.7908	AVRG		1.25782		0.7950	7	15	0.05	0.99	
Naphthalene	1.0959	1.3866	1.5863	1.8263	2.1705	2.2956	2.5522	2.4110	QUAD	2.65239	0.43887	-0.00019	1.9155	0.996	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		0.7582	0.8186	0.8734	0.9821	1.0456	1.1142	1.0689	AVRG		1.05090		0.9516	14	15	0.05	0.99	
Dibromofluoromethane					0.5174				AVRG		1.93292		0.5174	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.4056				AVRG		2.46534		0.4056	0	15	0.05	0.99	
Trifluorotoluene	0.6916	0.6947	0.6993	0.7144	0.7198	0.7284	0.8160	0.6926	AVRG		1.38965		0.7196	6	15	0.05	0.99	
Toluene-d8					1.2820				AVRG		0.78001		1.2820	0	15	0.05	0.99	
Bromofluorobenzene					1.0760				AVRG		0.92938		1.0760	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-6	10.00	0	20.00	-6	50.00	0	60.00	3	75.00	22	100.0	-12
Chloromethane			5.000	-2	10.00	0	20.00	-5	50.00	-2	60.00	0	75.00	12	100.0	-3
Vinyl Chloride	2.500	2	5.000	-4	10.00	-1	20.00	-6	50.00	-1	60.00	1	75.00	17	100.0	-7
Bromomethane			5.000	0	10.00	5	20.00	-7	50.00	-5	60.00	-3	75.00	11	100.0	-1
Chloroethane			5.000	1	10.00	-5	20.00	-6	50.00	1	60.00	-2	75.00	15	100.0	-5
Trichlorofluoromethane			5.000	-5	10.00	-1	20.00	-6	50.00	0	60.00	2	75.00	21	100.0	-11
Acetone			5.000	20	10.00	5	20.00	6	50.00	-5	60.00	-17	75.00	3	100.0	-12
Freon 113			5.000	-5	10.00	-5	20.00	0	50.00	-1	60.00	0	75.00	16	100.0	-4
1,1-Dichloroethene			5.000	-2	10.00	-6	20.00	-3	50.00	-3	60.00	-1	75.00	16	100.0	-2
Methylene Chloride			5.000	26	10.00	4	20.00	-10	50.00	-9	60.00	-7	75.00	2	100.0	-5
Carbon Disulfide			5.000	-9	10.00	-7	20.00	-4	50.00	0	60.00	2	75.00	18	100.0	1
MTBE			5.000	-1	10.00	-5	20.00	-5	50.00	-1	60.00	-1	75.00	10	100.0	2
trans-1,2-Dichloroethene			5.000	-3	10.00	-4	20.00	-6	50.00	-2	60.00	-1	75.00	15	100.0	1
Vinyl Acetate			5.000	-10	10.00	-9	20.00	-4	50.00	2	60.00	-2	75.00	16	100.0	5
1,1-Dichloroethane			5.000	0	10.00	-5	20.00	-6	50.00	-2	60.00	0	75.00	12	100.0	1
2-Butanone			5.000	-2	10.00	-6	20.00	0	50.00	-1	60.00	-4	75.00	16	100.0	-2
2,2-Dichloropropane			5.000	1	10.00	-4	20.00	-4	50.00	-2	60.00	-1	75.00	12	100.0	-3
cis-1,2-Dichloroethene			5.000	-2	10.00	-4	20.00	-6	50.00	-3	60.00	1	75.00	12	100.0	3
Chloroform			5.000	-1	10.00	-5	20.00	-8	50.00	-2	60.00	1	75.00	12	100.0	3
Bromochloromethane			5.000	3	10.00	-5	20.00	-5	50.00	-3	60.00	0	75.00	8	100.0	1
1,1,1-Trichloroethane			5.000	-2	10.00	-4	20.00	-3	50.00	-3	60.00	0	75.00	14	100.0	-2
1,1-Dichloropropene			5.000	-1	10.00	-5	20.00	-3	50.00	-2	60.00	0	75.00	14	100.0	-3
Carbon Tetrachloride			5.000	-3	10.00	-5	20.00	-2	50.00	-2	60.00	0	75.00	14	100.0	-2
1,2-Dichloroethane			5.000	1	10.00	-4	20.00	-5	50.00	-1	60.00	0	75.00	8	100.0	2
Benzene			5.000	2	10.00	-2	20.00	-5	50.00	-3	60.00	0	75.00	9	100.0	-1
Trichloroethene			5.000	-1	10.00	-2	20.00	-4	50.00	-3	60.00	0	75.00	11	100.0	-1
1,2-Dichloropropane			5.000	2	10.00	-2	20.00	-4	50.00	-2	60.00	-1	75.00	8	100.0	0
Bromodichloromethane			5.000	-1	10.00	-2	20.00	-6	50.00	-3	60.00	1	75.00	8	100.0	2
Dibromomethane			5.000	-1	10.00	-2	20.00	-5	50.00	-2	60.00	0	75.00	8	100.0	2
4-Methyl-2-Pentanone			5.000	-5	10.00	-4	20.00	-2	50.00	0	60.00	0	75.00	12	100.0	-1
cis-1,3-Dichloropropene			5.000	1	10.00	-2	20.00	-6	50.00	-2	60.00	1	75.00	7	100.0	1
Toluene			5.000	5	10.00	-1	20.00	-5	50.00	-4	60.00	-2	75.00	8	100.0	-2
trans-1,3-Dichloropropene			5.000	3	10.00	-4	20.00	-5	50.00	-1	60.00	0	75.00	7	100.0	1
1,1,2-Trichloroethane			5.000	5	10.00	-3	20.00	-5	50.00	-2	60.00	-1	75.00	7	100.0	-2
2-Hexanone			5.000	-12	10.00	-7	20.00	-1	50.00	3	60.00	-1	75.00	15	100.0	3
1,3-Dichloropropane			5.000	2	10.00	-3	20.00	-6	50.00	-2	60.00	0	75.00	7	100.0	1
Tetrachloroethene			5.000	0	10.00	-4	20.00	-3	50.00	-2	60.00	0	75.00	11	100.0	-2
Dibromochloromethane			5.000	3	10.00	-2	20.00	-7	50.00	-3	60.00	0	75.00	6	100.0	2
1,2-Dibromoethane			5.000	-1	10.00	-2	20.00	-3	50.00	0	60.00	-1	75.00	8	100.0	0
Chlorobenzene			5.000	3	10.00	-2	20.00	-6	50.00	-2	60.00	0	75.00	6	100.0	1
1,1,1,2-Tetrachloroethane			5.000	4	10.00	-4	20.00	-8	50.00	-3	60.00	2	75.00	7	100.0	3
Ethylbenzene			5.000	3	10.00	-2	20.00	-4	50.00	-3	60.00	-1	75.00	8	100.0	-1

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	5	10.00	1	20.00	-5	40.00	-6	100.0	-3	120.0	0	150.0	8	200.0	1
o-Xylene			5.000	2	10.00	-3	20.00	-5	50.00	-3	60.00	0	75.00	7	100.0	2
Styrene			5.000	0	10.00	-4	20.00	-7	50.00	-2	60.00	1	75.00	8	100.0	4
Bromoform			5.000	-1	10.00	-3	20.00	-6	50.00	-1	60.00	0	75.00	8	100.0	2
Isopropylbenzene			5.000	3	10.00	-2	20.00	-2	50.00	-4	60.00	0	75.00	8	100.0	-4
1,1,2,2-Tetrachloroethane			5.000	6	10.00	-4	20.00	-3	50.00	-3	60.00	-3	75.00	8	100.0	-2
1,2,3-Trichloropropane			5.000	7	10.00	-5	20.00	-4	50.00	-3	60.00	-2	75.00	8	100.0	-1
Propylbenzene			5.000	2	10.00	-2	20.00	-2	50.00	-3	60.00	0	75.00	9	100.0	-3
Bromobenzene			5.000	5	10.00	-3	20.00	-8	50.00	-3	60.00	0	75.00	6	100.0	3
1,3,5-Trimethylbenzene			5.000	1	10.00	-3	20.00	-4	50.00	-4	60.00	0	75.00	8	100.0	0
2-Chlorotoluene			5.000	3	10.00	-2	20.00	-5	50.00	-4	60.00	0	75.00	8	100.0	0
4-Chlorotoluene			5.000	3	10.00	-1	20.00	-4	50.00	-4	60.00	0	75.00	6	100.0	-1
tert-Butylbenzene			5.000	3	10.00	-3	20.00	-2	50.00	-4	60.00	-1	75.00	9	100.0	-2
1,2,4-Trimethylbenzene			5.000	3	10.00	-2	20.00	-5	50.00	-3	60.00	0	75.00	7	100.0	0
sec-Butylbenzene			5.000	2	10.00	-1	20.00	-1	50.00	-4	60.00	-1	75.00	10	100.0	-4
para-Isopropyl Toluene			5.000	-2	10.00	-4	20.00	-3	50.00	-3	60.00	1	75.00	11	100.0	-2
1,3-Dichlorobenzene			5.000	2	10.00	-1	20.00	-6	50.00	-4	60.00	1	75.00	7	100.0	1
1,4-Dichlorobenzene			5.000	3	10.00	-2	20.00	-6	50.00	-3	60.00	0	75.00	6	100.0	1
n-Butylbenzene			5.000	-10	10.00	-5	20.00	0	50.00	-1	60.00	3	75.00	14	100.0	0
1,2-Dichlorobenzene			5.000	4	10.00	-3	20.00	-5	50.00	-3	60.00	0	75.00	6	100.0	1
1,2-Dibromo-3-Chloropropane			5.000	3	10.00	-8	20.00	-6	50.00	-1	60.00	-3	75.00	12	100.0	2
1,2,4-Trichlorobenzene			5.000	-18	10.00	-12	20.00	-8	50.00	2	60.00	10	75.00	16	100.0	10
Hexachlorobutadiene			5.000	-7	10.00	-4	20.00	-2	50.00	-5	60.00	3	75.00	15	100.0	-1
Naphthalene	2.500	54	5.000	14	10.00	-4	20.00	-8	50.00	-4	60.00	-1	75.00	6	100.0	-2
1,2,3-Trichlorobenzene			5.000	-20	10.00	-14	20.00	-8	50.00	3	60.00	10	75.00	17	100.0	12
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene	2.500	-4	5.000	-3	10.00	-3	20.00	-1	50.00	0	60.00	1	75.00	13	100.0	-4
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 02/11/08 Reviewer: LW Date: 02/11/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201726 MSVOA Soil
EPA 8260B

Inst : MSVOA07 Name : 826GOX7S
Calnum : 468055392001 Cal Date : 07-FEB-2008 Type : SOIL

ICV 468056779007 (gb807 08-FEB-2008) stds: S8260 (10000X), S8297 (10000X), S8170 (10000X), S8073 (5000X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	1.3719	1.0854	25.00	19.78	ug/L	**-21**	20	v- ***
Chloromethane	1.7826	1.7619	25.00	24.71	ug/L	-1	20	
Vinyl Chloride	1.6011	1.6018	25.00	25.01	ug/L	0	20	
Bromomethane	0.8503	1.0440	25.00	30.69	ug/L	**23**	20	v+ ***
Chloroethane	0.8891	0.8587	25.00	24.14	ug/L	-3	20	
Trichlorofluoromethane	1.4683	1.4879	25.00	25.33	ug/L	1	20	
Acetone	0.2414	0.5010	25.00	51.88	ug/L	**108**	30	v+ ***
Freon 113	0.8622	0.6953	25.00	20.16	ug/L	-19	20	
1,1-Dichloroethene	0.7267	0.6900	25.00	23.74	ug/L	-5	20	
Methylene Chloride	0.8519	0.7969	25.00	23.38	ug/L	-6	20	
Carbon Disulfide	2.8671	2.2859	25.00	19.93	ug/L	-20	20	
MTBE	2.1640	2.1651	25.00	25.01	ug/L	0	20	
trans-1,2-Dichloroethene	0.8204	0.7787	25.00	23.73	ug/L	-5	20	
Vinyl Acetate	1.8012	1.4266	25.00	19.80	ug/L	-21	30	
1,1-Dichloroethane	1.8393	1.8684	25.00	25.40	ug/L	2	20	
2-Butanone	0.3335	0.5272	25.00	39.52	ug/L	**58**	30	v+ ***
2,2-Dichloropropane	1.5603	1.6043	25.00	25.70	ug/L	3	20	
cis-1,2-Dichloroethene	0.8348	0.8427	25.00	25.24	ug/L	1	20	
Chloroform	1.5340	1.5721	25.00	25.62	ug/L	2	20	
Bromochloromethane	0.3021	0.2941	25.00	24.34	ug/L	-3	20	
1,1,1-Trichloroethane	1.4621	1.4654	25.00	25.06	ug/L	0	20	
1,1-Dichloropropene	0.8072	0.7798	25.00	24.15	ug/L	-3	20	
Carbon Tetrachloride	0.6941	0.6590	25.00	23.74	ug/L	-5	20	
1,2-Dichloroethane	0.6264	0.6731	25.00	26.87	ug/L	7	20	
Benzene	2.1324	2.0083	25.00	23.54	ug/L	-6	20	
Trichloroethene	0.5026	0.4828	25.00	24.02	ug/L	-4	20	
1,2-Dichloropropane	0.5824	0.5288	25.00	22.70	ug/L	-9	20	
Bromodichloromethane	0.6296	0.6428	25.00	25.52	ug/L	2	20	
Dibromomethane	0.2125	0.2051	25.00	24.13	ug/L	-3	20	
4-Methyl-2-Pentanone	0.4343	0.4768	25.00	27.45	ug/L	10	30	
cis-1,3-Dichloropropene	0.7693	0.7674	25.00	24.94	ug/L	0	20	
Toluene	1.2985	1.2139	25.00	23.37	ug/L	-7	20	
trans-1,3-Dichloropropene	0.6792	0.6307	25.00	23.21	ug/L	-7	20	
1,1,2-Trichloroethane	0.1709	0.1734	25.00	25.37	ug/L	1	20	
2-Hexanone	0.3240	0.4377	25.00	33.77	ug/L	**35**	30	v+ ***
1,3-Dichloropropane	0.6838	0.6738	25.00	24.64	ug/L	-1	20	
Tetrachloroethene	0.4739	0.4273	25.00	22.54	ug/L	-10	20	
Dibromochloromethane	0.3869	0.3569	25.00	23.06	ug/L	-8	20	
1,2-Dibromoethane	0.2797	0.2759	25.00	24.65	ug/L	-1	20	
Chlorobenzene	1.3197	1.2069	25.00	22.86	ug/L	-9	20	
1,1,1,2-Tetrachloroethane	0.4427	0.4050	25.00	22.87	ug/L	-9	20	
Ethylbenzene	2.8001	2.6731	25.00	23.87	ug/L	-5	20	
m,p-Xylenes	1.0418	0.9463	50.00	45.41	ug/L	-9	20	
o-Xylene	0.9798	0.8776	25.00	22.39	ug/L	-10	20	
Styrene	1.5857	1.4626	25.00	23.06	ug/L	-8	20	
Bromoform	0.2035	0.1848	25.00	22.70	ug/L	-9	20	
Isopropylbenzene	5.3469	4.4538	25.00	20.82	ug/L	-17	20	
1,1,2,2-Tetrachloroethane	0.8388	0.8453	25.00	25.19	ug/L	1	20	

468055392001 ICVs

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,2,3-Trichloropropane	0.9177	0.9716	25.00	26.47	ug/L	6	20	
Propylbenzene	6.7912	6.5037	25.00	23.94	ug/L	-4	20	
Bromobenzene	0.9303	0.8487	25.00	22.81	ug/L	-9	20	
1,3,5-Trimethylbenzene	4.5923	4.3979	25.00	23.94	ug/L	-4	20	
2-Chlorotoluene	4.3264	4.2358	25.00	24.48	ug/L	-2	20	
4-Chlorotoluene	3.8056	3.7689	25.00	24.76	ug/L	-1	20	
tert-Butylbenzene	3.9262	3.5665	25.00	22.71	ug/L	-9	20	
1,2,4-Trimethylbenzene	4.4339	4.4456	25.00	25.07	ug/L	0	20	
sec-Butylbenzene	6.0686	5.6357	25.00	23.22	ug/L	-7	20	
para-Isopropyl Toluene	4.9060	4.5665	25.00	23.27	ug/L	-7	20	
1,3-Dichlorobenzene	1.8846	1.7717	25.00	23.50	ug/L	-6	20	
1,4-Dichlorobenzene	1.9000	1.7986	25.00	23.67	ug/L	-5	20	
n-Butylbenzene	4.8803	5.0732	25.00	25.99	ug/L	4	20	
1,2-Dichlorobenzene	1.6966	1.5851	25.00	23.36	ug/L	-7	20	
1,2-Dibromo-3-Chloropropane	0.1813	0.1926	25.00	26.55	ug/L	6	20	
1,2,4-Trichlorobenzene	1.0598	1.1008	25.00	25.97	ug/L	4	20	
Hexachlorobutadiene	0.7950	0.7401	25.00	23.27	ug/L	-7	20	
Naphthalene	1.9155	2.0815	25.00	24.98	ug/L	0	20	
1,2,3-Trichlorobenzene	0.9516	0.9575	25.00	25.16	ug/L	1	20	

+=high bias -=low bias v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 MSVOA Soil
EPA 8260B

Inst : MSVOA07 Run Name : 20PPB IDF : 1.0
Seqnum : 468095710004.1 File : gc604 Time : 06-MAR-2008 12:59
Cal : 468055392001 Caldate : 07-FEB-2008 Caltype : SOIL
Standards: S8368 (25000X), S8294 (25000X), S8549 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	1.3719	1.7127	20.00	24.97	ug/L	**25**	20	0.0500	c+ ***
Chloromethane	1.7826	1.6891	20.00	18.95	ug/L	-5	20	0.1000	
Vinyl Chloride	1.6011	1.5741	20.00	19.66	ug/L	-2	20	0.0500	
Bromomethane	0.8503	0.8470	20.00	19.92	ug/L	0	20	0.0500	
Chloroethane	0.8891	0.9414	20.00	21.18	ug/L	6	20	0.0500	
Trichlorofluoromethane	1.4683	1.8011	20.00	24.53	ug/L	**23**	20	0.0500	c+ ***
Acetone	0.2414	0.2952	20.00	24.45	ug/L	22	30	0.0500	
Freon 113	0.8622	0.9090	20.00	21.09	ug/L	5	20	0.0500	
1,1-Dichloroethene	0.7267	0.7450	20.00	20.50	ug/L	3	20	0.0500	
Methylene Chloride	0.8519	0.8670	20.00	20.35	ug/L	2	20	0.0500	
Carbon Disulfide	2.8671	2.9450	20.00	20.54	ug/L	3	20	0.0500	
MTBE	2.1640	2.1613	20.00	19.98	ug/L	0	20	0.0500	
trans-1,2-Dichloroethene	0.8204	0.8697	20.00	21.20	ug/L	6	20	0.0500	
Vinyl Acetate	1.8012	1.5756	20.00	17.50	ug/L	-13	30	0.0500	
1,1-Dichloroethane	1.8393	1.9738	20.00	21.46	ug/L	7	20	0.1000	
2-Butanone	0.3335	0.3395	20.00	20.36	ug/L	2	30	0.0500	
2,2-Dichloropropane	1.5603	1.7428	20.00	22.34	ug/L	12	20	0.0500	
cis-1,2-Dichloroethene	0.8348	0.8801	20.00	21.09	ug/L	5	20	0.0500	
Chloroform	1.5340	1.6972	20.00	22.13	ug/L	11	20	0.0500	
Bromochloromethane	0.3021	0.3045	20.00	20.16	ug/L	1	20	0.0500	
1,1,1-Trichloroethane	1.4621	1.6482	20.00	22.55	ug/L	13	20	0.0500	
1,1-Dichloropropene	0.8072	0.7674	20.00	19.01	ug/L	-5	20	0.0500	
Carbon Tetrachloride	0.6941	0.6837	20.00	19.70	ug/L	-1	20	0.0500	
1,2-Dichloroethane	0.6264	0.6332	20.00	20.22	ug/L	1	20	0.0500	
Benzene	2.1324	2.0180	20.00	18.93	ug/L	-5	20	0.0500	
Trichloroethene	0.5026	0.4880	20.00	19.42	ug/L	-3	20	0.0500	
1,2-Dichloropropane	0.5824	0.5320	20.00	18.27	ug/L	-9	20	0.0500	
Bromodichloromethane	0.6296	0.5789	20.00	18.39	ug/L	-8	20	0.0500	
Dibromomethane	0.2125	0.2056	20.00	19.35	ug/L	-3	20	0.0500	
4-Methyl-2-Pentanone	0.4343	0.3589	20.00	16.53	ug/L	-17	30	0.0500	
cis-1,3-Dichloropropene	0.7693	0.6819	20.00	17.73	ug/L	-11	20	0.0500	
Toluene	1.2985	1.2196	20.00	18.78	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.6792	0.6003	20.00	17.68	ug/L	-12	20	0.0500	
1,1,2-Trichloroethane	0.1709	0.1569	20.00	18.36	ug/L	-8	20	0.0500	
2-Hexanone	0.3240	0.2754	20.00	17.00	ug/L	-15	30	0.0500	
1,3-Dichloropropane	0.6838	0.6768	20.00	19.80	ug/L	-1	20	0.0500	
Tetrachloroethene	0.4739	0.4351	20.00	18.37	ug/L	-8	20	0.0500	
Dibromochloromethane	0.3869	0.3339	20.00	17.26	ug/L	-14	20	0.0500	
1,2-Dibromoethane	0.2797	0.2609	20.00	18.65	ug/L	-7	20	0.0500	
Chlorobenzene	1.3197	1.3405	20.00	20.31	ug/L	2	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4427	0.4144	20.00	18.72	ug/L	-6	20	0.0500	
Ethylbenzene	2.8001	2.9008	20.00	20.72	ug/L	4	20	0.0500	
m,p-Xylenes	1.0418	1.0610	40.00	40.73	ug/L	2	20	0.0500	
o-Xylene	0.9798	0.9806	20.00	20.02	ug/L	0	20	0.0500	
Styrene	1.5857	1.4729	20.00	18.58	ug/L	-7	20	0.0500	
Bromoform	0.2035	0.1625	20.00	15.98	ug/L	-20	20	0.1000	
Isopropylbenzene	5.3469	5.6934	20.00	21.30	ug/L	6	20	0.0500	
1,1,2,2-Tetrachloroethane	0.8388	0.9205	20.00	21.95	ug/L	10	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9177	1.0116	20.00	22.05	ug/L	10	20	0.0500	
Propylbenzene	6.7912	7.6270	20.00	22.46	ug/L	12	20	0.0500	
Bromobenzene	0.9303	0.9474	20.00	20.37	ug/L	2	20	0.0500	
1,3,5-Trimethylbenzene	4.5923	5.0055	20.00	21.80	ug/L	9	20	0.0500	
2-Chlorotoluene	4.3264	4.9372	20.00	22.82	ug/L	14	20	0.0500	
4-Chlorotoluene	3.8056	4.4376	20.00	23.32	ug/L	17	20	0.0500	
tert-Butylbenzene	3.9262	4.0339	20.00	20.55	ug/L	3	20	0.0500	
1,2,4-Trimethylbenzene	4.4339	4.8636	20.00	21.94	ug/L	10	20	0.0500	
sec-Butylbenzene	6.0686	6.5369	20.00	21.54	ug/L	8	20	0.0500	
para-Isopropyl Toluene	4.9060	5.1848	20.00	21.14	ug/L	6	20	0.0500	
1,3-Dichlorobenzene	1.8846	2.0093	20.00	21.32	ug/L	7	20	0.0500	
1,4-Dichlorobenzene	1.9000	2.0179	20.00	21.24	ug/L	6	20	0.0500	
n-Butylbenzene	4.8803	5.5193	20.00	22.62	ug/L	13	20	0.0500	
1,2-Dichlorobenzene	1.6966	1.7267	20.00	20.36	ug/L	2	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1813	0.1787	20.00	19.70	ug/L	-1	20	0.0500	
1,2,4-Trichlorobenzene	1.0598	1.0200	20.00	19.25	ug/L	-4	20	0.0500	
Hexachlorobutadiene	0.7950	0.6717	20.00	16.90	ug/L	-16	20	0.0500	
Naphthalene	1.9155	1.8370	20.00	18.52	ug/L	-7	20	0.0500	
1,2,3-Trichlorobenzene	0.9516	0.8699	20.00	18.28	ug/L	-9	20	0.0500	
Dibromofluoromethane	0.5174	0.6111	50.00	59.06	ug/L	18	20	0.0500	
1,2-Dichloroethane-d4	0.4056	0.4609	50.00	56.82	ug/L	14	20	0.0500	
Trifluorotoluene	0.7196	0.6397	20.00	17.78	ug/L	-11	20	0.0500	
Toluene-d8	1.2820	1.2908	50.00	50.34	ug/L	1	20	0.0500	
Bromofluorobenzene	1.0760	1.2402	50.00	57.63	ug/L	15	20	0.0500	

ISTD (ICAL gb710)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	885549	997492	12.64	10.04	10.04	0.00
1,4-Difluorobenzene	1508004	1909232	26.61	11.19	11.19	0.00
Chlorobenzene-d5	1373133	1658499	20.78	15.30	15.30	0.00
1,4-Dichlorobenzene-d4	706219	799525	13.21	18.03	18.03	0.00

Analyst: TEW Date: 03/10/08 Reviewer: LW Date: 03/10/08

+=high bias c=CCV

468095710004.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 468095710

Date : 03/06/08
Sequence : MSVOA07 gc6

Reference : gb710
Analyzed : 02/07/08 16:12

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	885549	10.04	1508004	11.19	1373133	15.30	706219	18.03
		LOWER LIMIT	442775	9.54	754002	10.69	686567	14.80	353110	17.53
		UPPER LIMIT	1771098	10.54	3016008	11.69	2746266	15.80	1412438	18.53
004	CCV	20PPB	997492	10.04	1909232	11.19	1658499	15.30	799525	18.03
005	BS	QC431571	871189	10.04	1652729	11.19	1476655	15.30	732429	18.03
008	BSD	QC431572	842637	10.04	1593094	11.19	1412955	15.30	691669	18.03
010	BLANK	QC431570	775561	10.04	1487989	11.19	1342008	15.30	589047	18.03
011	SAMPLE	201713-001	1017187	10.04	2001753	11.19	1805410	15.30	806346	18.03
012	SAMPLE	201713-003	883577	10.04	1740791	11.19	1558289	15.30	699096	18.03
013	SAMPLE	201713-004	887573	10.04	1750320	11.19	1557051	15.31	698610	18.03
014	SAMPLE	201726-003	936744	10.04	1877731	11.19	1669830	15.30	724284	18.03
015	SAMPLE	201726-002	894905	10.04	1821683	11.19	1627017	15.30	714346	18.03
016	MSS	201726-001	745257	10.04	1497143	11.19	1329523	15.30	579724	18.03
017	MS	QC431654	873886	10.04	1766586	11.19	1598562	15.30	800733	18.03
018	MSD	QC431655	772698	10.04	1559646	11.19	1430628	15.30	700285	18.03

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 468055392

Instrument : MSVOA07
Method : EPA 8260B
Begun : 02/07/08 11:12
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	gb701	X	IB			02/07/08 11:12	1.0	1	
002	gb702	X	BFB			02/07/08 11:57	1.0	2	
003	gb703	TUN	BFB			02/07/08 12:22	1.0	2	
004	gb704	X	IB			02/07/08 12:57	1.0	1	
005	gb705	IB	CALIB IB			02/07/08 13:30	1.0	1	
006	gb706	ICAL	2.5PPB			02/07/08 14:02	1.0	3 4 1	
007	gb707	ICAL	5PPB			02/07/08 14:35	1.0	3 4 1	
008	gb708	ICAL	10PPB			02/07/08 15:07	1.0	3 4 1	
009	gb709	ICAL	20PPB			02/07/08 15:40	1.0	5 6 1	
010	gb710	ICAL	50PPB			02/07/08 16:12	1.0	5 6 1	
011	gb711	ICAL	60PPB			02/07/08 16:44	1.0	5 6 1	
012	gb712	ICAL	75PPB			02/07/08 17:16	1.0	5 6 1	
013	gb713	ICAL	100PPB			02/07/08 17:49	1.0	5 6 1	
014	gb714	X	IB			02/07/08 18:36	1.0	1	
015	gb715	ICV				02/07/08 19:08	1.0	7 8 9 1	
016	gb716	X	IB			02/07/08 19:41	1.0	1	
017	gb717	X	IB			02/07/08 20:13	1.0	1	
018	gb718	X	IB			02/07/08 20:46	1.0	1	
019	gb719	X	IB			02/07/08 21:18	1.0	1	

Analyst: BO Date: 02/08/08 Reviewer: LW Date: 02/11/08

Standards used: 1=S8073 2=S7916 3=S8124 4=S8121 5=S8123 6=S7976 7=S8297 8=S8260 9=S8170

00131

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 468056779

Instrument : MSVOA07
Method : EPA 8260B
Begun : 02/08/08 10:19
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	gb801	X	IB			02/08/08 10:19	1.0	1	
002	gb802	X	BFB			02/08/08 10:49	1.0	2	
003	gb803	TUN	BFB			02/08/08 11:03	1.0	2	
004	gb804	CCV	30PPB			02/08/08 11:31	1.0	3 4 1	
005	gb805	X	25PPB			02/08/08 12:15	1.0	5 6 7 1	
006	gb806	X	IB			02/08/08 12:47	1.0	1	
007	gb807	ICV/LCS	QC427433	Soil	134615	02/08/08 13:20	1.0	5 6 7 1	
008	gb808	X	BFB			02/08/08 14:11	1.0	2	
009	gb809	X	BFB			02/08/08 14:22	1.0	2	
010	gb810	X	BFB			02/08/08 14:39	1.0	2	
011	gb811	TUN	BFB			02/08/08 14:53	1.0	2	
012	gb812	CCV	30PPB			02/08/08 15:22	1.0	1 3 4	
013	gb813	PREPBLK	QC427504	TCLP Leachate	134615	02/08/08 15:54	1.0	1	
014	gb814	BLANK	QC427434	Soil	134615	02/08/08 16:27	1.0	1	
015	gb815	MSS	200973-007	Soil	134615	02/08/08 16:59	0.9615	1	
016	gb816	SAMPLE	200973-003	Soil	134615	02/08/08 17:31	0.9804	1	
017	gb817	SAMPLE	200973-004	Soil	134615	02/08/08 18:03	1.136	1	
018	gb818	SAMPLE	200973-005	Soil	134615	02/08/08 18:36	1.351	1	
019	gb819	SAMPLE	200973-006	Soil	134615	02/08/08 19:08	1.19	1	
020	gb820	SAMPLE	201011-001	Soil	134615	02/08/08 19:40	1.042	1	
021	gb821	SAMPLE	201011-005	Soil	134615	02/08/08 20:13	2.941	1	
022	gb822	SAMPLE	201088-030	Soil	134615	02/08/08 20:45	1.0	1	
023	gb823	SAMPLE	201088-031	Soil	134615	02/08/08 21:18	0.9259	1	
024	gb824	SAMPLE	201088-032	Soil	134615	02/08/08 21:50	1.0	1	
025	gb825	SAMPLE	201088-033	Soil	134615	02/08/08 22:23	1.0	1	
026	gb826	SAMPLE	201088-034	Soil	134615	02/08/08 22:55	0.9434	1	

BO 02/08/08 : gb810, replaced septa

TEW 02/10/08 : Sequence did not finish, reason unknown.

TEW 02/11/08 : It appears that the computer crashed & caused the sequence to stop running.

Analyst: BO Date: 02/08/08 Reviewer: LW Date: 02/11/08

Standards used: 1=S8073 2=S7916 3=S8123 4=S7976 5=S8260 6=S8297 7=S8170

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 468095710

Instrument : MSVOA07 Begun : 03/06/08 11:10
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	gc601	X	IB			03/06/08 11:10	1.0	1
002	gc602	X	BFB			03/06/08 11:54	1.0	2
003	gc603	TUN	BFB			03/06/08 12:26	1.0	2
004	gc604	CCV	20PPB			03/06/08 12:59	1.0	3 4 1
005	gc605	BS	QC431571	Soil	135652	03/06/08 13:42	1.0	5 6 7 1
006	gc606	X	QC431572	Soil	135652	03/06/08 14:14	1.0	5 6 7 1
008	gc608	BSD	QC431572	Soil	135652	03/06/08 15:33	1.0	5 6 7 1
009	gc609	X	IB			03/06/08 16:05	1.0	1
010	gc610	BLANK	QC431570	Soil	135652	03/06/08 16:37	1.0	1
011	gc611	SAMPLE	201713-001	Soil	135652	03/06/08 18:50	0.8772	1
012	gc612	SAMPLE	201713-003	Soil	135652	03/06/08 19:22	0.9434	1
013	gc613	SAMPLE	201713-004	Soil	135652	03/06/08 19:54	0.8621	1
014	gc614	SAMPLE	201726-003	Soil	135652	03/06/08 20:27	0.8475	1
015	gc615	SAMPLE	201726-002	Soil	135652	03/06/08 20:59	0.7246	1
016	gc616	MSS	201726-001	Soil	135652	03/06/08 21:31	0.7042	1
017	gc617	MS	QC431654	Soil	135652	03/06/08 22:03	0.7692	5 6 7 1
018	gc618	MSD	QC431655	Soil	135652	03/06/08 22:36	0.7353	5 6 7 1
019	gc619	X	IB			03/06/08 23:08	1.0	1
020	gc620	X	7A			03/06/08 23:41	1.0	1
021	gc621	X	7B			03/07/08 00:13	1.0	1

TEW 03/06/08 : File gc607 was an instrument blank which was lost due to a computer error.

Analyst: TEW Date: 03/10/08 Reviewer: LW Date: 03/10/08

Standards used: 1=S8549 2=S7916 3=S8368 4=S8294 5=S8260 6=S8534 7=S8170

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 3/6/08

Prepped by: TEW

135652

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	201713-001	5.7	A		7	NO blue dots, first to use added them		
2	-003	5.3						
3	-004	5.8						
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	201726-001	~~5.5~~ 7.1	C		7			
2	MS	~~5.1~~ 6.5	D					
3	MSD	* 6.8	E					
4	201726-002	6.9	B					
5	-003	5.9	B					
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

Curtis & Tompkins, Ltd.

Semivolatile Organics
Data
By 8270-SIM

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX303[7.0]	Batch#:	135673
Lab ID:	201726-001	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	ug/Kg	Prepared:	03/06/08
Basis:	dry	Analyzed:	03/07/08
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL	MDL
Naphthalene	2.2 J	5.9	0.81
2-Methylnaphthalene	3.5 J	5.9	0.84
Acenaphthylene	ND	5.9	0.76
Acenaphthene	ND	5.9	1.1
Fluorene	ND	5.9	1.0
Phenanthrene	3.5 J	5.9	0.95
Anthracene	ND	5.9	0.73
Fluoranthene	3.6 J	5.9	1.1
Pyrene	4.5 J	5.9	0.92
Benzo(a)anthracene	2.2 J	5.9	0.83
Chrysene	2.5 J	5.9	0.85
Benzo(b)fluoranthene	2.0 J	5.9	0.97
Benzo(k)fluoranthene	ND	5.9	1.5
Benzo(a)pyrene	1.7 J	5.9	0.67
Indeno(1,2,3-cd)pyrene	1.4 J b	5.9	0.86
Dibenz(a,h)anthracene	ND	5.9	0.81
Benzo(g,h,i)perylene	1.8 J	5.9	0.82

Surrogate	%REC	Limits
Nitrobenzene-d5	85	23-120
2-Fluorobiphenyl	79	30-115
Terphenyl-d14	91	18-137

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX304[7.5]	Batch#:	135673
Lab ID:	201726-002	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	ug/Kg	Prepared:	03/06/08
Basis:	dry	Analyzed:	03/07/08
Diln Fac:	1.000		

Moisture: 15%

Analyte	Result	RL	MDL
Naphthalene	ND	5.9	0.80
2-Methylnaphthalene	ND	5.9	0.83
Acenaphthylene	ND	5.9	0.75
Acenaphthene	ND	5.9	1.1
Fluorene	ND	5.9	1.0
Phenanthrene	ND	5.9	0.94
Anthracene	ND	5.9	0.72
Fluoranthene	ND	5.9	1.0
Pyrene	ND	5.9	0.91
Benzo(a)anthracene	ND	5.9	0.83
Chrysene	ND	5.9	0.85
Benzo(b)fluoranthene	ND	5.9	0.96
Benzo(k)fluoranthene	ND	5.9	1.5
Benzo(a)pyrene	ND	5.9	0.66
Indeno(1,2,3-cd)pyrene	ND	5.9	0.85
Dibenz(a,h)anthracene	ND	5.9	0.81
Benzo(g,h,i)perylene	ND	5.9	0.81

Surrogate	%REC	Limits
Nitrobenzene-d5	74	23-120
2-Fluorobiphenyl	73	30-115
Terphenyl-d14	95	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	DUP030608	Batch#:	135673
Lab ID:	201726-003	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	ug/Kg	Prepared:	03/06/08
Basis:	dry	Analyzed:	03/07/08
Diln Fac:	1.000		

Moisture: 20%

Analyte	Result	RL	MDL
Naphthalene	ND	6.2	0.84
2-Methylnaphthalene	ND	6.2	0.87
Acenaphthylene	ND	6.2	0.79
Acenaphthene	ND	6.2	1.2
Fluorene	ND	6.2	1.0
Phenanthrene	3.9 J	6.2	0.99
Anthracene	0.80 J	6.2	0.76
Fluoranthene	5.4 J	6.2	1.1
Pyrene	7.3	6.2	0.96
Benzo(a)anthracene	3.3 J	6.2	0.87
Chrysene	3.6 J	6.2	0.89
Benzo(b)fluoranthene	2.8 J	6.2	1.0
Benzo(k)fluoranthene	ND	6.2	1.5
Benzo(a)pyrene	2.7 J	6.2	0.70
Indeno(1,2,3-cd)pyrene	1.8 J b	6.2	0.89
Dibenz(a,h)anthracene	ND	6.2	0.85
Benzo(g,h,i)perylene	2.3 J	6.2	0.85

Surrogate	%REC	Limits
Nitrobenzene-d5	79	23-120
2-Fluorobiphenyl	73	30-115
Terphenyl-d14	89	18-137

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC431650	Batch#:	135673
Matrix:	Soil	Prepared:	03/06/08
Units:	ug/Kg	Analyzed:	03/07/08
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.69
2-Methylnaphthalene	ND	5.0	0.71
Acenaphthylene	ND	5.0	0.64
Acenaphthene	ND	5.0	0.94
Fluorene	ND	5.0	0.85
Phenanthrene	ND	5.0	0.81
Anthracene	ND	5.0	0.62
Fluoranthene	ND	5.0	0.90
Pyrene	ND	5.0	0.78
Benzo(a)anthracene	ND	5.0	0.71
Chrysene	ND	5.0	0.72
Benzo(b)fluoranthene	ND	5.0	0.82
Benzo(k)fluoranthene	ND	5.0	1.2
Benzo(a)pyrene	ND	5.0	0.57
Indeno(1,2,3-cd)pyrene	ND	5.0	0.73
Dibenz(a,h)anthracene	ND	5.0	0.69
Benzo(g,h,i)perylene	ND	5.0	0.70

Surrogate	%REC	Limits
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	72	30-115
Terphenyl-d14	96	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC431651	Batch#:	135673
Matrix:	Soil	Prepared:	03/06/08
Units:	ug/Kg	Analyzed:	03/07/08
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	32.91	22.31	68	31-137
Pyrene	32.91	21.35	65	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	69	23-120
2-Fluorobiphenyl	69	30-115
Terphenyl-d14	82	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX303[7.0]	Batch#:	135673
MSS Lab ID:	201726-001	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	ug/Kg	Prepared:	03/06/08
Basis:	dry	Analyzed:	03/07/08
Diln Fac:	1.000		

Type: MS Moisture: 16%
Lab ID: QC431652

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.108	39.41	28.52	72	31-137
Pyrene	4.486	39.41	35.56	79	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	74	30-115
Terphenyl-d14	88	18-137

Type: MSD Moisture: 16%
Lab ID: QC431653

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	39.52	29.86	76	31-137	4	19
Pyrene	39.52	34.79	77	35-142	2	36

Surrogate	%REC	Limits
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	71	30-115
Terphenyl-d14	92	18-137

RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR 201726 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518081271003 File : ubp03 Time : 25-FEB-2008 12:10

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	32573	40.77	
68	< 2% of mass 69	0	0.00	
69		42253		
70	< 2% of mass 69	83	0.20	
127	40% - 60% of mass 198	39152	49.00	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5281	6.61	
275	10% - 30% of mass 198	12998	16.27	
365	> 1% of mass 198	1031	1.29	
441	Present, < mass 443	7734	67.38	
442	> 40% and < 100% of mass 198	57033	71.38	
443	17% - 23% of mass 442	11478	20.13	

Analyst: AD Date: 02/25/08 Reviewer: LW Date: 02/26/08

518081271003

CURTIS & TOMPKINS DFTPP TUNE FOR 201726 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518081271013 File : ubp13 Time : 25-FEB-2008 18:48

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	36480	42.07	
68	< 2% of mass 69	0	0.00	
69		46496		
70	< 2% of mass 69	70	0.15	
127	40% - 60% of mass 198	43013	49.61	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5519	6.36	
275	10% - 30% of mass 198	13795	15.91	
365	> 1% of mass 198	1022	1.18	
441	Present, < mass 443	718	5.91	
442	> 40% and < 100% of mass 198	60524	69.80	
443	17% - 23% of mass 442	12139	20.06	

Analyst: AD Date: 02/26/08 Reviewer: LW Date: 02/26/08

518081271013

CURTIS & TOMPKINS DFTPP TUNE FOR 201726 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518097048002 File : uc702 Time : 07-MAR-2008 09:59

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	27696	45.42	
68	< 2% of mass 69	0	0.00	
69		29488		
70	< 2% of mass 69	86	0.29	
127	40% - 60% of mass 198	25728	42.19	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	4200	6.89	
275	10% - 30% of mass 198	11619	19.05	
365	> 1% of mass 198	1119	1.83	
441	Present, < mass 443	3487	32.20	
442	> 40% and < 100% of mass 198	55624	91.22	
443	17% - 23% of mass 442	10829	19.47	

Analyst: JAJ Date: 03/07/08 Reviewer: AD Date: 03/07/08

518097048002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201726 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 518081271001
Units : ug/mL

Name : 2PAHSIM
Date : 25-FEB-2008 13:48
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ubp05	518081271005	0.2/1.0UG/ML	25-FEB-2008 13:48	S8085
L2	ubp06	518081271006	0.5/2.5UG/ML	25-FEB-2008 14:26	S8087
L3	ubp07	518081271007	1.0/5.0UG/ML	25-FEB-2008 15:00	S8088
L4	ubp08	518081271008	2.0/10UG/ML	25-FEB-2008 15:36	S8089
L5	ubp09	518081271009	5.0/25UG/ML	25-FEB-2008 16:12	S8090
L6	ubp10	518081271010	10/50UG/ML	25-FEB-2008 16:51	S8091
L7	ubp12	518081271012	0.1/0.5UG/ML	25-FEB-2008 18:00	S8142

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1450	1.0183	1.0420	1.0575	1.0842	1.0927	1.0758	AVRG		0.93140		1.0737	4	15	0.05	0.99	
2-Methylnaphthalene	0.5675	0.5115	0.5280	0.5613	0.5845	0.5948	0.4965	AVRG		1.82100		0.5491	7	15	0.05	0.99	
Acenaphthylene	1.8829	1.6972	1.8830	1.9212	2.0231	2.0018	1.7204	AVRG		0.53314		1.8757	7	15	0.05	0.99	
Acenaphthene	1.1708	1.0423	1.1392	1.1423	1.1760	1.1765	1.0525	AVRG		0.88613		1.1285	5	15	0.05	0.99	
Fluorene	1.2682	1.1046	1.2600	1.2542	1.2856	1.2913	1.1021	AVRG		0.81719		1.2237	7	15	0.05	0.99	
Phenanthrene	1.2721	1.1376	1.2144	1.2409	1.2380	1.2099	1.1981	AVRG		0.82247		1.2158	3	15	0.05	0.99	
Anthracene	1.2909m	1.2015m	1.3014m	1.3351m	1.3061	1.2797	1.1698m	AVRG		0.78788		1.2692	5	15	0.05	0.99	
Fluoranthene	1.2734	1.1561	1.2482	1.2721	1.2586	1.2242	1.1572	AVRG		0.81492		1.2271	4	15	0.05	0.99	
Pyrene	1.8465	1.6204	1.6740	1.5833	1.5662	1.5227	1.8731m	AVRG		0.59900		1.6695	8	15	0.05	0.99	
Benzo(a)anthracene	1.2267	1.1095	1.1696	1.1820	1.2471	1.2268	1.1075	AVRG		0.84650		1.1813	5	15	0.05	0.99	
Chrysene	1.4241m	1.2715m	1.3117m	1.2995m	1.2888m	1.2683m	1.3795m	AVRG		0.75729		1.3205	4	15	0.05	0.99	
Benzo(b)fluoranthene	1.2834	1.0788	1.1846	1.1499	1.2536	1.1426	1.1181	AVRG		0.85252		1.1730	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.3386m	1.2606m	1.3471	1.4121	1.2660	1.0884	1.3716	AVRG		0.77055		1.2978	8	15	0.05	0.99	
Benzo(a)pyrene	1.1525m	0.9856m	1.0206	1.0774	1.1392	1.1207	1.0093m	AVRG		0.93267		1.0722	6	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.8543m	0.7550m	0.7874	0.8588	1.0313	1.0240	0.7634m	AVRG		1.15242		0.8677	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6683m	0.6197m	0.6489m	0.7116m	0.8675	0.8588	0.6394m	AVRG		1.39602		0.7163	15	15	0.05	0.99	
Benzo(g,h,i)perylene	0.8814m	0.7478m	0.7548m	0.7966m	0.9277m	0.9095m	0.8330m	AVRG		1.19641		0.8358	9	15	0.05	0.99	
Nitrobenzene-d5	0.2847m	0.2358m	0.2430m	0.2571	0.2750	0.2946		AVRG		3.77315		0.2650	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2416	1.1075	1.2439	1.2425	1.2954	1.2603		AVRG		0.81178		1.2319	5	15	0.05	0.99	
Terphenyl-d14	1.1255	0.9774	1.0157	0.9876	0.9865	0.9533		AVRG		0.99240		1.0077	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.200	7	0.500	-5	1.000	-3	2.000	-2	5.000	1	10.00	2	0.100	0
2-Methylnaphthalene	0.200	3	0.500	-7	1.000	-4	2.000	2	5.000	6	10.00	8	0.100	-10
Acenaphthylene	0.200	0	0.500	-10	1.000	0	2.000	2	5.000	8	10.00	7	0.100	-8
Acenaphthene	0.200	4	0.500	-8	1.000	1	2.000	1	5.000	4	10.00	4	0.100	-7
Fluorene	0.200	4	0.500	-10	1.000	3	2.000	2	5.000	5	10.00	6	0.100	-10
Phenanthrene	0.200	5	0.500	-6	1.000	0	2.000	2	5.000	2	10.00	0	0.100	-1
Anthracene	0.200	2	0.500	-5	1.000	3	2.000	5	5.000	3	10.00	1	0.100	-8
Fluoranthene	0.200	4	0.500	-6	1.000	2	2.000	4	5.000	3	10.00	0	0.100	-6
Pyrene	0.200	11	0.500	-3	1.000	0	2.000	-5	5.000	-6	10.00	-9	0.100	12
Benzo(a)anthracene	0.200	4	0.500	-6	1.000	-1	2.000	0	5.000	6	10.00	4	0.100	-6
Chrysene	0.200	8	0.500	-4	1.000	-1	2.000	-2	5.000	-2	10.00	-4	0.100	4
Benzo(b)fluoranthene	0.200	9	0.500	-8	1.000	1	2.000	-2	5.000	7	10.00	-3	0.100	-5
Benzo(k)fluoranthene	0.200	3	0.500	-3	1.000	4	2.000	9	5.000	-2	10.00	-16	0.100	6
Benzo(a)pyrene	0.200	7	0.500	-8	1.000	-5	2.000	0	5.000	6	10.00	5	0.100	-6
Indeno(1,2,3-cd)pyrene	0.200	-2	0.500	-13	1.000	-9	2.000	-1	5.000	19	10.00	18	0.100	-12
Dibenz(a,h)anthracene	0.200	-7	0.500	-13	1.000	-9	2.000	-1	5.000	21	10.00	20	0.100	-11
Benzo(g,h,i)perylene	0.200	5	0.500	-11	1.000	-10	2.000	-5	5.000	11	10.00	9	0.100	0
Nitrobenzene-d5	0.200	7	0.500	-11	1.000	-8	2.000	-3	5.000	4	10.00	11		
2-Fluorobiphenyl	0.200	1	0.500	-10	1.000	1	2.000	1	5.000	5	10.00	2		
Terphenyl-d14	0.200	12	0.500	-3	1.000	1	2.000	-2	5.000	-2	10.00	-5		

AD 02/26/08 : Manual integrations due to tailing/splitting of peaks.

AD 02/26/08 [Nitrobenzene-d5]: Baseline does not display because the integration ends outside the RT window. Integration is appropriate.

Analyst: AD Date: 02/26/08 Reviewer: LW Date: 02/26/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201726 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 518081271001 Cal Date : 25-FEB-2008

ICV 518081271014 (ubp14 25-FEB-2008) stds: S8092

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0737	1.1041	1.000	1.028	ug/mL	3	20	
2-Methylnaphthalene	0.5491	0.5980	1.000	1.089	ug/mL	9	20	
Acenaphthylene	1.8757	1.9289	1.000	1.028	ug/mL	3	20	
Acenaphthene	1.1285	1.1849	1.000	1.050	ug/mL	5	20	
Fluorene	1.2237	1.2723	1.000	1.040	ug/mL	4	20	
Phenanthrene	1.2158	1.2796	1.000	1.052	ug/mL	5	20	
Anthracene	1.2692	1.2256	1.000	0.9656	ug/mL	-3	20	m
Fluoranthene	1.2271	1.2987	1.000	1.058	ug/mL	6	20	
Pyrene	1.6695	1.6186	1.000	0.9695	ug/mL	-3	20	
Benzo(a)anthracene	1.1813	1.2560	1.000	1.063	ug/mL	6	20	
Chrysene	1.3205	1.3871	1.000	1.050	ug/mL	5	20	m
Benzo(b)fluoranthene	1.1730	1.2125	1.000	1.034	ug/mL	3	20	
Benzo(k)fluoranthene	1.2978	1.3240	1.000	1.020	ug/mL	2	20	
Benzo(a)pyrene	1.0722	1.0328	1.000	0.9632	ug/mL	-4	20	
Indeno(1,2,3-cd)pyrene	0.8677	0.8774	1.000	1.011	ug/mL	1	20	
Dibenz(a,h)anthracene	0.7163	0.6982	1.000	0.9747	ug/mL	-3	20	
Benzo(g,h,i)perylene	0.8358	0.7940	1.000	0.9499	ug/mL	-5	20	m

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201726 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 518097048003.1 File : uc703 Time : 07-MAR-2008 10:26
Cal : 518081271001 Caldate : 25-FEB-2008
Standards: S8088

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0737	1.0195	1.000	0.9495	ug/mL	-5	20	0.0500	
2-Methylnaphthalene	0.5491	0.5663	1.000	1.031	ug/mL	3	20	0.0500	
Acenaphthylene	1.8757	1.8069	1.000	0.9634	ug/mL	-4	20	0.0500	
Acenaphthene	1.1285	1.0560	1.000	0.9357	ug/mL	-6	20	0.0500	
Fluorene	1.2237	1.1575	1.000	0.9459	ug/mL	-5	20	0.0500	
Phenanthrene	1.2158	1.1662	1.000	0.9592	ug/mL	-4	20	0.0500	
Anthracene	1.2692	1.2253	1.000	0.9654	ug/mL	-3	20	0.0500	
Fluoranthene	1.2271	1.2054	1.000	0.9823	ug/mL	-2	20	0.0500	
Pyrene	1.6695	1.5524	1.000	0.9299	ug/mL	-7	20	0.0500	
Benzo(a)anthracene	1.1813	1.2417	1.000	1.051	ug/mL	5	20	0.0500	
Chrysene	1.3205	1.3550	1.000	1.026	ug/mL	3	20	0.0500	m
Benzo(b)fluoranthene	1.1730	1.1019	1.000	0.9394	ug/mL	-6	20	0.0500	
Benzo(k)fluoranthene	1.2978	1.1895	1.000	0.9166	ug/mL	-8	20	0.0500	
Benzo(a)pyrene	1.0722	0.8984	1.000	0.8379	ug/mL	-16	20	0.0500	
Indeno(1,2,3-cd)pyrene	0.8677	1.0498	1.000	1.210	ug/mL	**21**	20	0.0500	c+ ***
Dibenz(a,h)anthracene	0.7163	0.8339	1.000	1.164	ug/mL	16	20	0.0500	m
Benzo(g,h,i)perylene	0.8358	0.9967	1.000	1.192	ug/mL	19	20	0.0500	
Nitrobenzene-d5	0.2650	0.2556	1.000	0.9644	ug/mL	-4	20	0.0500	
2-Fluorobiphenyl	1.2319	1.1624	1.000	0.9436	ug/mL	-6	20	0.0500	
Terphenyl-d14	1.0077	1.1930	1.000	1.184	ug/mL	18	20	0.0500	

Analyst: JAJ Date: 03/07/08 Reviewer: LW Date: 03/10/08

+=high bias c=CCV m=manual integration

518097048003.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 518097048

Date : 03/07/08
Sequence : MSBNA02 uc7

Reference : uc703
Analyzed : 03/07/08 10:26

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	9451	7.88	42024	9.44	20330	11.70	29386	13.65	23720	17.19	20475	19.12
		LOWER LIMIT	4726	7.38	21012	8.94	10165	11.20	14693	13.15	11860	16.69	10238	18.62
		UPPER LIMIT	18902	8.38	84048	9.94	40660	12.20	58772	14.15	47440	17.69	40950	19.62
003	CCV	1/5UG/ML	9451	7.88	42024	9.44	20330	11.70	29386	13.65	23720	17.19	20475	19.12
004	BLANK	QC431650	9672	7.88	41298	9.43	18634	11.70	28236	13.65	18773	17.19	16860	19.12
005	LCS	QC431651	10041	7.87	43362	9.44	19977	11.70	30870	13.65	23294	17.19	20231	19.12
006	SAMPLE	201719-001	10335	7.88	45354	9.44	22549	11.70	36577	13.65	30997	17.19	30134	19.12
007	SAMPLE	201719-002	9776	7.88	43683	9.44	21157	11.70	33726	13.65	26745	17.19	23755	19.12
008	MSS	201726-001	9881	7.88	42766	9.44	20443	11.70	32287	13.65	26076	17.19	25525	19.12
009	MS	QC431652	10124	7.88	43735	9.44	20794	11.70	33594	13.65	26380	17.19	24849	19.12
010	MSD	QC431653	10519	7.87	45184	9.44	21641	11.70	35161	13.65	28291	17.19	25635	19.13
011	SAMPLE	201726-002	9831	7.87	41098	9.43	19728	11.70	31225	13.65	23572	17.19	22305	19.12
012	SAMPLE	201726-003	10020	7.88	43704	9.44	21134	11.70	33210	13.65	25588	17.19	24093	19.12
013	SAMPLE	201722-001	8460	7.88	39159	9.44	17441	11.70	28538	13.65	23093	17.19	21152	19.12
014	SAMPLE	201722-003	9526	7.88	41369	9.44	19604	11.70	31104	13.65	22295	17.19	20385	19.12
015	SAMPLE	201722-004	9438	7.88	40190	9.44	18981	11.70	30492	13.65	22566	17.19	20922	19.12
016	SAMPLE	201722-005	9282	7.88	40731	9.44	18999	11.70	30088	13.65	23192	17.19	21608	19.12
017	SAMPLE	201722-006	10149	7.88	45490	9.44	21886	11.70	34321	13.65	25586	17.19	19299	19.13
018	SAMPLE	201722-007	9112	7.88	39655	9.44	18911	11.70	31347	13.65	25083	17.19	22040	19.12
019	SAMPLE	201722-008	9050	7.88	41124	9.44	19810	11.70	29799	13.65	22265	17.19	20496	19.12
020	SAMPLE	201722-009	9631	7.88	42649	9.44	19949	11.70	30998	13.65	22919	17.19	19973	19.12
021	SAMPLE	201722-010	9976	7.88	41337	9.44	20134	11.70	31727	13.65	22907	17.19	20245	19.12

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 518081271

Instrument : MSBNA02 Begun : 02/25/08 10:31
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ubp01	CCV	RT UPDATE			02/25/08 10:31	1.0	1	3:NO2BZD5=12
002	ubp02	CCV	RT CHECK			02/25/08 11:34	1.0	1	3:NO2BZD5=10
003	ubp03	TUN	DFTPP/PEM 50UG/ML			02/25/08 12:10	1.0	2	
004	ubp04	ICAL	0.1/0.5UG/ML			02/25/08 13:11	1.0	3	
005	ubp05	ICAL	0.2/1.0UG/ML			02/25/08 13:48	1.0	4	
006	ubp06	ICAL	0.5/2.5UG/ML			02/25/08 14:26	1.0	5	
007	ubp07	ICAL	1.0/5.0UG/ML			02/25/08 15:00	1.0	6	
008	ubp08	ICAL	2.0/10UG/ML			02/25/08 15:36	1.0	7	
009	ubp09	ICAL	5.0/25UG/ML			02/25/08 16:12	1.0	1	
010	ubp10	ICAL	10/50UG/ML			02/25/08 16:51	1.0	8	
011	ubp11	IB	INSTRUMENT BLANK			02/25/08 17:25	1.0		
012	ubp12	ICAL	0.1/0.5UG/ML			02/25/08 18:00	1.0	9	
013	ubp13	TUN	DFTPP/PEM 50UG/ML			02/25/08 18:48	1.0	2	
014	ubp14	ICV/CCV	1/10 ICV/CCV			02/25/08 19:08	1.0	10	
015	ubp15	BLANK	QC429749	Soil	135194	02/25/08 19:50	1.0	11	
016	ubp16	LCS	QC429750	Soil	135194	02/25/08 20:24	1.0	11	
017	ubp17	SAMPLE	201371-008	Water	135182	02/25/08 21:00	1.0	11	
018	ubp18	SAMPLE	201371-009	Water	135182	02/25/08 21:35	1.0	11	
019	ubp19	SAMPLE	201371-010	Water	135182	02/25/08 22:10	1.0	11	
020	ubp20	SAMPLE	201371-011	Water	135182	02/25/08 22:45	1.0	11	
021	ubp21	SAMPLE	201197-021	Soil	135194	02/25/08 23:21	1.0	11	
022	ubp22	SAMPLE	201400-002	Soil	135194	02/25/08 23:57	1.0	11	
023	ubp23	SAMPLE	201400-003	Soil	135194	02/26/08 00:34	1.0	11	
024	ubp24	SAMPLE	201197-011	Soil	135194	02/26/08 01:10	2.0	11	8:PHAN=43
025	ubp25	SAMPLE	201197-012	Soil	135194	02/26/08 01:47	2.0	11	
026	ubp26	MSS	201197-013	Soil	135194	02/26/08 02:23	1.0	11	6:BZBF=17
027	ubp27	SAMPLE	201197-014	Soil	135194	02/26/08 02:59	1.0	11	6:BZBF=19
028	ubp28	SAMPLE	201197-015	Soil	135194	02/26/08 03:35	5.0	11	5:BZBF=21
029	ubp29	SAMPLE	201197-016	Soil	135194	02/26/08 04:12	5.0	11	
030	ubp30	SAMPLE	201197-017	Soil	135194	02/26/08 04:48	5.0	11	
031	ubp31	SAMPLE	201197-018	Soil	135194	02/26/08 05:24	1.0	11	
032	ubp32	SAMPLE	201197-019	Soil	135194	02/26/08 06:00	10.0	11	7:PYR=34
033	ubp33	SAMPLE	201197-020	Soil	135194	02/26/08 06:37	2.0	11	

AD 02/25/08 : S8084, ran as ubp04 ICAL point was not prepared properly. Use S8142, ubp12.

Standards used: 1=S8090 2=S7771 3=S8084 4=S8085 5=S8087 6=S8088 7=S8089 8=S8091 9=S8142 10=S8092 11=S8083

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 518097048

Instrument : MSBNA02 Begun : 03/07/08 09:28
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	uc701	TUN	DFTPP/PEM 50UG/ML			03/07/08 09:28	1.0	1
002	uc702	TUN	DFTPP/PEM 50UG/ML			03/07/08 09:59	1.0	1
003	uc703	CCV	1/5UG/ML			03/07/08 10:26	1.0	2
004	uc704	BLANK	QC431650	Soil	135673	03/07/08 11:02	1.0	3
005	uc705	LCS	QC431651	Soil	135673	03/07/08 11:39	1.0	3
006	uc706	SAMPLE	201719-001	Soil	135673	03/07/08 12:16	10.0	3
007	uc707	SAMPLE	201719-002	Soil	135673	03/07/08 12:52	1.0	3
008	uc708	MSS	201726-001	Soil	135673	03/07/08 13:28	1.0	3
009	uc709	MS	QC431652	Soil	135673	03/07/08 14:05	1.0	3
010	uc710	MSD	QC431653	Soil	135673	03/07/08 14:43	1.0	3
011	uc711	SAMPLE	201726-002	Soil	135673	03/07/08 15:18	1.0	3
012	uc712	SAMPLE	201726-003	Soil	135673	03/07/08 15:53	1.0	3
013	uc713	SAMPLE	201722-001	Soil	135673	03/07/08 16:39	1.0	3
014	uc714	SAMPLE	201722-003	Soil	135673	03/07/08 17:17	1.0	3
015	uc715	SAMPLE	201722-004	Soil	135673	03/07/08 17:55	1.0	3
016	uc716	SAMPLE	201722-005	Soil	135673	03/07/08 18:32	1.0	3
017	uc717	SAMPLE	201722-006	Soil	135673	03/07/08 19:09	1.0	3
018	uc718	SAMPLE	201722-007	Soil	135673	03/07/08 19:45	1.0	3
019	uc719	SAMPLE	201722-008	Soil	135673	03/07/08 20:21	1.0	3
020	uc720	SAMPLE	201722-009	Soil	135673	03/07/08 20:57	1.0	3
021	uc721	SAMPLE	201722-010	Soil	135673	03/07/08 21:33	1.0	3

Standards used: 1=S7771 2=S8088 3=S8540

SAMPLE PREPARATION SUMMARY

Batch # : 135673
Started By : SFL
Method : 3550B
Spike #1 ID : S8575
Prep Date : 06-MAR-2008
SOP Version : 8270_SIM_rv1
Spike #2 ID : S8508
Analysis : 8270-SIM
Finished By : MFC
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
201719-001		Soil	29.87	1	1	0.03348		1				8270-SIM	
201719-002		Soil	30.13	1	1	0.03319		1				8270-SIM	
201722-001		Soil	30.08	1	1	0.03324		1				8270-SIM	
201722-003		Soil	30.07	1	1	0.03326		1				8270-SIM	
201722-004		Soil	30.33	1	1	0.03297		1				8270-SIM	
201722-005		Soil	30.47	1	1	0.03282		1				8270-SIM	
201722-006		Soil	29.92	1	1	0.03342		1				8270-SIM	
201722-007		Soil	30.31	1	1	0.03299		1				8270-SIM	
201722-008		Soil	29.85	1	1	0.0335		1				8270-SIM	
201722-009		Soil	30.43	1	1	0.03286		1				8270-SIM	
201722-010		Soil	30.17	1	1	0.03315		1				8270-SIM	
201722-011		Soil	29.66	1	1	0.03372		1				8270-SIM	
201722-012		Soil	30.25	1	1	0.03306		1				8270-SIM	
201722-013		Soil	30.24	1	1	0.03307		1				8270-SIM	
201722-014		Soil	29.68	1	1	0.03369		1				8270-SIM	
201722-015		Soil	30.08	1	1	0.03324		1				8270-SIM	
201722-016		Soil	30.12	1	1	0.0332		1				8270-SIM	
201726-001		Soil	30.15	1	1	0.03317		1				8270-SIM	mss
201726-002		Soil	30	1	1	0.03333		1				8270-SIM	
201726-003		Soil	30.39	1	1	0.03291		1				8270-SIM	
QC431650	BLANK	Soil	29.82	1	1	0.03353		1				8270-SIM	
QC431651	LCS	Soil	30.39	1	1	0.03291		1	1			8270-SIM	
QC431652	MS	Soil	30.21	1	1	0.0331		1	1			8270-SIM	
QC431653	MSD	Soil	30.12	1	1	0.0332		1	1			8270-SIM	

Analyst: JAJ Date: 03/07/08 Reviewer: AD Date: 03/07/08

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 25 **BK2665**

LIMS Batch No: 135673
LIMS Analysis 8270-SIM
Date Extracted: 3/6/08

Extraction Method:
☑ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	201719-001	A	29.87	1.0		
	↓ 02		30.13			
	201722-001		30.08			
	03		30.07			
5	04		30.33			
	05		30.47			
	06		29.92			
	07		30.31			
	08		29.85			
10	09		30.43			
	10		30.17			
	11		29.66			
	12		30.25			
	13		30.24			
15	14		29.68			
	15		30.08			
	16		30.12			
	201726-001		30.15			MSS
	↓ 02		30.00			
20	↓ 03		30.39			
	MB BC43/650		29.82			
	LCS 51		30.39			
	MS 52		30.21			
	MSD ↓ 53		30.12	↓		
						MFC 3/6/08

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM47281748	SFL 3/6/08
1.0 mL of surrogate solution was added to all samples	SS575B	↓
1.0 mL of matrix spiking solution was added to all spikes	SB508B	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM48078	
Acetone	↓ 47190	↓
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	MFC 3/6/08
soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47281804	
Concentrated to final volume at temperature (degrees C)	70	
Relinquished to BNA department	✓	↓

3/6/08
Extraction Chemist / Date

Continued from page _____
Continued on page _____

3/7/08
Reviewed by / Date

142 Project: SOIL ALIQUOT BK 2627

Continued from Page

SAMPLE I.D	WEIGHT (G)	ANALYSIS	BATCH #	COMMENTS
201719-001A	29.87	8270-SIM	135673	
02	30.13			
201722-001	30.08			
03	30.07			
04	30.33			
05	30.47			
06	29.92			
07	30.31			
08	29.85			
09	30.43			
10	30.17			
11	29.66			
12	30.25			
13	30.24			
14	29.68			
15	30.05			
16	30.12			
201726-001	30.15			MSS
02	30.00			
03	30.39			EM472817A8
MB	29.82			↓
LCS	30.39			201726-001A
MS	31.21			↓
MSD	30.12			

SPL 3/16/08

Continued on Page

Witnessed/Understood By

Name (Print) Signature Date

Curtis & Tompkins, Ltd.

Metals Data (Soil)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	201726	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX303[7.0]	Basis:	dry
Lab ID:	201726-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08

Moisture: 16%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.25 J	0.60	0.030	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Arsenic	3.7	0.30	0.054	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Barium	82	0.30	0.0051	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Beryllium	0.41	0.12	0.0022	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Cadmium	ND	0.30	0.0029	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Chromium	64	0.30	0.018	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Cobalt	11	0.30	0.0085	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Copper	13	0.30	0.030	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Lead	18	0.25	0.083	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Mercury	0.038	0.024	0.0046	135785	03/10/08	03/10/08	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.024	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Nickel	39	0.30	0.020	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Selenium	1.8	0.60	0.085	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.020	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.038	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Vanadium	54	0.30	0.023	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Zinc	43	1.2	0.031	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	201726	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX304[7.5]	Basis:	dry
Lab ID:	201726-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08

Moisture: 15%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.59	0.029	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Arsenic	4.0	0.29	0.052	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Barium	85	0.29	0.0049	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Beryllium	0.37	0.12	0.0022	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Cadmium	ND	0.29	0.0028	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Chromium	65	0.29	0.017	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Cobalt	11	0.29	0.0082	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Copper	7.9	0.29	0.029	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Lead	6.0	0.24	0.080	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Mercury	0.041	0.024	0.0047	135785	03/10/08	03/10/08	METHOD	EPA 7471A
Molybdenum	ND	0.29	0.023	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Nickel	36	0.29	0.019	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Selenium	1.2	0.59	0.082	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Silver	0.083 J	0.29	0.019	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Thallium	ND	0.59	0.036	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Vanadium	52	0.29	0.022	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Zinc	29	1.2	0.030	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	201726	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	DUP030608	Basis:	dry
Lab ID:	201726-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08

Moisture: 20%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.63	0.032	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Arsenic	4.4	0.31	0.057	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Barium	100	0.31	0.0054	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Beryllium	0.48	0.13	0.0024	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Cadmium	ND	0.31	0.0031	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Chromium	67	0.31	0.019	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Cobalt	11	0.31	0.0090	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Copper	11	0.31	0.032	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Lead	7.2	0.27	0.088	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Mercury	0.070	0.025	0.0055	135785	03/10/08	03/10/08	METHOD	EPA 7471A
Molybdenum	ND	0.31	0.026	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Nickel	40	0.31	0.021	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Selenium	0.62 J	0.63	0.090	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Silver	ND	0.31	0.021	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Thallium	ND	0.63	0.040	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Vanadium	62	0.31	0.024	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B
Zinc	37	1.3	0.033	135681	03/06/08	03/07/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC431682	Batch#:	135681
Matrix:	Soil	Prepared:	03/06/08
Units:	mg/Kg	Analyzed:	03/06/08
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	0.055 J	0.50	0.027
Arsenic	ND	0.25	0.050
Barium	ND	0.25	0.0047
Beryllium	ND	0.10	0.0021
Cadmium	ND	0.25	0.0027
Chromium	0.041 J	0.25	0.017
Cobalt	0.020 J	0.25	0.0078
Copper	ND	0.25	0.028
Lead	ND	0.23	0.076
Molybdenum	ND	0.25	0.022
Nickel	ND	0.25	0.018
Selenium	ND	0.50	0.078
Silver	ND	0.25	0.018
Thallium	ND	0.50	0.034
Vanadium	ND	0.25	0.021
Zinc	0.037 J	1.0	0.028

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC432102	Batch#:	135785
Matrix:	Soil	Prepared:	03/10/08
Units:	mg/Kg	Analyzed:	03/10/08

Result	RL	MDL
ND	0.020	0.0047

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

24.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	135681
Units:	mg/Kg	Prepared:	03/06/08
Basis:	as received	Analyzed:	03/06/08
Diln Fac:	1.000		

Type: BS Lab ID: QC431683

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	90.28	90	75-125
Arsenic	50.00	47.03	94	75-125
Barium	100.0	93.54	94	75-125
Beryllium	2.500	2.468	99	75-125
Cadmium	10.00	9.428	94	75-125
Chromium	100.0	92.27	92	75-125
Cobalt	25.00	22.49	90	75-125
Copper	12.50	11.38	91	75-125
Lead	100.0	91.38	91	75-125
Molybdenum	20.00	18.99	95	75-125
Nickel	25.00	22.63	91	75-125
Selenium	50.00	46.59	93	75-125
Silver	10.00	8.793	88	75-125
Thallium	50.00	46.29	93	75-125
Vanadium	25.00	22.98	92	75-125
Zinc	25.00	22.95	92	75-125

Type: BSD Lab ID: QC431684

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	92.78	93	75-125	3	30
Arsenic	50.00	48.06	96	75-125	2	30
Barium	100.0	94.93	95	75-125	1	30
Beryllium	2.500	2.510	100	75-125	2	30
Cadmium	10.00	9.600	96	75-125	2	30
Chromium	100.0	94.02	94	75-125	2	30
Cobalt	25.00	22.84	91	75-125	2	30
Copper	12.50	11.50	92	75-125	1	30
Lead	100.0	92.98	93	75-125	2	30
Molybdenum	20.00	19.33	97	75-125	2	30
Nickel	25.00	23.00	92	75-125	2	30
Selenium	50.00	47.53	95	75-125	2	30
Silver	10.00	8.936	89	75-125	2	30
Thallium	50.00	47.34	95	75-125	2	30
Vanadium	25.00	23.38	94	75-125	2	30
Zinc	25.00	23.43	94	75-125	2	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX303[7.0]	Batch#:	135681
MSS Lab ID:	201726-001	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	mg/Kg	Prepared:	03/06/08
Basis:	dry	Analyzed:	03/07/08
Diln Fac:	1.000		

Type: MS Moisture: 16%
Lab ID: QC431685

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.2471	111.3	47.35	42 *	75-125
Arsenic	3.749	55.63	52.24	87	75-125
Barium	82.42	111.3	195.3	101	75-125
Beryllium	0.4109	2.781	3.077	96	75-125
Cadmium	<0.002894	11.13	9.675	87	75-125
Chromium	63.69	111.3	168.1	94	75-125
Cobalt	11.14	27.81	34.90	85	75-125
Copper	12.59	13.91	25.70	94	75-125
Lead	18.29	111.3	103.8	77	75-125
Molybdenum	<0.02436	22.25	18.57	83	75-125
Nickel	39.31	27.81	66.54	98 P	75-125
Selenium	1.759	55.63	49.38	86	75-125
Silver	<0.01986	11.13	9.441	85	75-125
Thallium	<0.03751	55.63	45.16	81	75-125
Vanadium	53.58	27.81	85.18	114 P	75-125
Zinc	43.34	27.81	68.07	89 P	75-125

Type: MSD Moisture: 16%
Lab ID: QC431686

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	114.5	53.40	46 *	75-125	9	30
Arsenic	57.23	54.47	89	75-125	2	30
Barium	114.5	192.9	97	75-125	3	30
Beryllium	2.862	3.106	94	75-125	2	30
Cadmium	11.45	10.73	94	75-125	8	30
Chromium	114.5	171.9	94	75-125	0	30
Cobalt	28.62	35.25	84	75-125	1	30
Copper	14.31	264.5	1760 *	75-125	164 *	30
Lead	114.5	155.2	120	75-125	37 *	30
Molybdenum	22.89	19.49	85	75-125	2	30
Nickel	28.62	69.74	106 P	75-125	4	30
Selenium	57.23	50.62	85	75-125	0	30
Silver	11.45	10.12	88	75-125	4	30
Thallium	57.23	48.31	84	75-125	4	30
Vanadium	28.62	78.70	88 P	75-125	9	30
Zinc	28.62	453.0	1431 * P	75-125	147 *	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135785
Units:	mg/Kg	Prepared:	03/10/08
Basis:	as received	Analyzed:	03/10/08

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC432103	0.5000	0.5170	103	75-125		
BSD	QC432104	0.5000	0.5000	100	75-125	3	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	1065EX303[7.0]	Batch#:	135785
MSS Lab ID:	201726-001	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	mg/Kg	Prepared:	03/10/08
Basis:	dry	Analyzed:	03/10/08

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC432106	0.03835	0.4960	0.5675	107	75-125	16%		
MSD	QC432107		0.5315	0.7387	132 *	75-125	16%	20	35

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

30.0

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 201726 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
201726-001	MET08	03/07/08 00:00	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
201726-001	MET08	03/07/08 09:31	1.0																	
201726-001	MET04	03/10/08 15:14	1.0										+							
201726-002	MET08	03/07/08 00:23	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
201726-002	MET08	03/07/08 09:33	1.0																	
201726-002	MET04	03/10/08 15:36	1.0										+							
201726-003	MET08	03/07/08 00:26	1.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
201726-003	MET08	03/07/08 09:36	1.0													+				
201726-003	MET04	03/10/08 15:38	1.0										+							
QC431682	MET08	03/06/08 23:50	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431683	MET08	03/06/08 23:54	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431684	MET08	03/06/08 23:57	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431685	MET08	03/07/08 00:03	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431686	MET08	03/07/08 00:05	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431687	MET08	03/07/08 00:08	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431688	MET08	03/07/08 00:11	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC432102	MET04	03/10/08 15:07	1.0										+							
QC432103	MET04	03/10/08 15:09	1.0										+							
QC432104	MET04	03/10/08 15:11	1.0										+							
QC432105	MET04	03/10/08 15:16	5.0										+							
QC432106	MET04	03/10/08 15:18	1.0										+							
QC432107	MET04	03/10/08 15:20	1.0										+							

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 88096354 Instrument: MET08 PE ICP Begun: 06-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	030608br	ICALBLK				06-MAR-2008 21:54	1.0	1.0					
002	030608br	ICAL	CRIM08			06-MAR-2008 21:58	1.0	1.0				1	
003	030608br	ICAL	CS100			06-MAR-2008 22:02	1.0	1.0				2	
004	030608br	ICAL	CS1K			06-MAR-2008 22:05	1.0	1.0				3	
005	030608br	ICAL	CS10K			06-MAR-2008 22:09	1.0	1.0				4	
006	030608br	ICAL	CS100K			06-MAR-2008 22:13	1.0	1.0				5	
007	030608br	ICV				06-MAR-2008 22:17	1.0	1.0			5000	6	
008	030608br	ICB				06-MAR-2008 22:22	1.0	1.0			5000		
009	030608br	ICSA				06-MAR-2008 22:26	1.0	1.0			5000	7	10:AL=482261
010	030608br	ICSAB				06-MAR-2008 23:45	1.0	1.0			5000	8	5:AL=491082
011	030608br	BLANK	QC431682	135681	Soil	06-MAR-2008 23:50	1.0	50.0			5000		
012	030608br	BS	QC431683	135681	Soil	06-MAR-2008 23:54	1.0	50.0			5000		
013	030608br	BSD	QC431684	135681	Soil	06-MAR-2008 23:57	1.0	50.0			5000		
014	030608br	MSS	201726-001	135681	Soil	07-MAR-2008 00:00	1.0	45.87	4		5000		3:FE=374855
015	030608br	MS	QC431685	135681	Soil	07-MAR-2008 00:03	1.0	46.73			5000		3:FE=415444
016	030608br	MSD	QC431686	135681	Soil	07-MAR-2008 00:05	1.0	48.08		5	5000		3:FE=361908
017	030608br	SER	QC431687	135681	Soil	07-MAR-2008 00:08	5.0	45.87		2	5000		
018	030608br	PDS	QC431688	135681	Soil	07-MAR-2008 00:11	1.0	45.87		1	5000	9 10	3:FE=386465
019	030608br	X				07-MAR-2008 00:14	1.0	1.0	1		5000	11	
020	030608br	CCV				07-MAR-2008 00:15	1.0	1.0			5000	11	
021	030608br	CCB				07-MAR-2008 00:19	1.0	1.0			5000		
022	030608br	SAMPLE	201726-002	135681	Soil	07-MAR-2008 00:23	1.0	44.64	1		5000		4:FE=440819
023	030608br	SAMPLE	201726-003	135681	Soil	07-MAR-2008 00:26	1.0	46.30	1		5000		3:FE=434545
024	030608br	SAMPLE	201665-002	135681	Soil	07-MAR-2008 00:28	1.0	45.87			5000		3:FE=260343
025	030608br	SAMPLE	201703-001	135681	Soil	07-MAR-2008 00:31	1.0	44.64	5		5000		6:FE=409718
026	030608br	SAMPLE	201703-002	135681	Soil	07-MAR-2008 00:35	1.0	46.73			5000		2:FE=242318
027	030608br	SAMPLE	201710-001	135681	Miscel	07-MAR-2008 00:37	1.0	47.17	1		5000		2:NA=284696
028	030608br	SAMPLE	201710-002	135681	Miscel	07-MAR-2008 00:41	1.0	46.73			5000		1:NA=204333
029	030608br	SAMPLE	201711-001	135681	Miscel	07-MAR-2008 00:44	1.0	47.17	2		5000		3:FE=298117
030	030608br	SAMPLE	201724-003	135681	Soil	07-MAR-2008 00:48	1.0	45.05	1		5000		3:FE=347569
031	030608br	SAMPLE	201737-001	135681	Soil	07-MAR-2008 00:51	1.0	45.45	2		5000		5:FE=342429

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8496 7=S8252 8=S8351 9=S6918 10=S6919 11=S8497

Analyst: _____ Date: 3/7/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 88096354 Instrument: MET08 PE ICP Begun: 06-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	030608br	ICSAB				07-MAR-2008 00:55	1.0	1.0	5000	8	5:AL=513817
033	030608br	CCV				07-MAR-2008 00:59	1.0	1.0	5000	11	
034	030608br	CCB				07-MAR-2008 01:04	1.0	1.0	5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8496 7=S8252 8=S8351 9=S6918 10=S6919 11=S8497

Analyst: _____ Date: 3/7/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 88096354001
Units : ug/L

Date : 06-MAR-2008 21:54
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	030608br	88096354002	CRIM08	06-MAR-2008 21:58	S8428
L2	030608br	88096354003	CS100	06-MAR-2008 22:02	S8350
L3	030608br	88096354004	CS1K	06-MAR-2008 22:05	S8349
L4	030608br	88096354005	CS10K	06-MAR-2008 22:09	S8393
L5	030608br	88096354006	CS100K	06-MAR-2008 22:13	S8370

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	35.231	35.622	36.992	38.214		LOR0	0.00000	0.02618		36.515	1.000	0.995	
Arsenic	A	23.550	22.668	23.409	24.052		LOR0	0.00000	0.04159		23.420	1.000	0.995	
Barium	A	373.53	397.04	406.64	401.11		LOR0	0.00000	0.00249		394.58	1.000	0.995	
Beryllium	A	3977.2	3837.7	3889.9			LOR0	0.00000	2.57E-4		3901.6	1.000	0.995	
Boron	A	156.90		169.66	175.07		LOR0	0.00000	0.00571		167.21	1.000	0.995	
Cadmium	A	359.11	376.72	386.59	378.43		LOR0	0.00000	0.00264		375.21	1.000	0.995	
Chromium	A	79.582	82.027	85.571	84.493		LOR0	0.00000	0.01183		82.918	1.000	0.995	
Cobalt	A	121.37	121.63	130.09	130.08		LOR0	0.00000	0.00769		125.80	1.000	0.995	
Copper	A	483.15	446.85	461.20	472.43		LOR0	0.00000	0.00212		465.91	1.000	0.995	
Lead	A	51.593	62.182	63.666	63.787		LOR0	0.00000	0.01568		60.307	1.000	0.995	
Manganese	A	1497.3	1539.0	1543.3	1521.3		LOR0	0.00000	6.57E-4		1525.2	1.000	0.995	
Molybdenum	A	41.537	42.198	43.386	43.715		LOR0	0.00000	0.02288		42.709	1.000	0.995	
Nickel	A	56.004	50.581	53.917	53.923		LOR0	0.00000	0.01855		53.606	1.000	0.995	
Selenium	A	33.437	32.940	33.902	35.201		LOR0	0.00000	0.02842		33.870	1.000	0.995	
Silver	A	614.11	580.94	597.09	614.17		LOR0	0.00000	0.00164		601.58	1.000	0.995	
Thallium	A	12.153	18.269	19.630	19.689		LOR0	0.00000	0.05079		17.435	1.000	0.995	
Tin	A	27.409	26.933	28.537	30.053		LOR0	0.00000	0.03329		28.233	1.000	0.995	
Titanium	A	1244.0	1299.8	1307.8	1287.9		LOR0	0.00000	7.76E-4		1284.8	1.000	0.995	
Vanadium	A	119.30	126.11	129.74	131.11		LOR0	0.00000	0.00763		126.57	1.000	0.995	
Zinc	A	168.86	111.11	115.20	114.18		LOR0	0.00000	0.00876		127.34	1.000	0.995	
Aluminum	R	1.3912		1.4998	1.5370	1.4485	LOR0	0.00000	0.68995		1.4691	1.000	0.995	
Calcium	R	27.750		22.294	19.879	18.786	LOR0	0.00000	0.05320		22.177	1.000	0.995	
Iron	R	7.7803		7.8846	7.9932	7.7309	LOR0	0.00000	0.12931		7.8473	1.000	0.995	
Magnesium	R	2.1335		2.1801	2.1554	2.0363	LOR0	0.00000	0.49079		2.1264	1.000	0.995	
Potassium	R	7.6361		7.4583	7.7159	7.6658	LOR0	0.00000	0.13044		7.6190	1.000	0.995	
Sodium	R	11.801		12.444	12.598	12.127	LOR0	0.00000	0.08243		12.243	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-8	100.0	-7	1000	-3	10000	0		
Arsenic	A	5.000	-2	100.0	-6	1000	-3	10000	0		
Barium	A	5.000	-7	100.0	-1	1000	1	10000	0		
Beryllium	A	2.000	2	100.0	-1	1000	0				
Boron	A	100.0	-10			1000	-3	10000	0		
Cadmium	A	5.000	-5	100.0	0	1000	2	10000	0		
Chromium	A	5.000	-6	100.0	-3	1000	1	10000	0		
Cobalt	A	5.000	-7	100.0	-6	1000	0	10000	0		
Copper	A	5.000	2	100.0	-5	1000	-2	10000	0		
Lead	A	3.000	-19	100.0	-3	1000	0	10000	0		
Manganese	A	5.000	-2	100.0	1	1000	1	10000	0		
Molybdenum	A	5.000	-5	100.0	-3	1000	-1	10000	0		
Nickel	A	5.000	4	100.0	-6	1000	0	10000	0		
Selenium	A	5.000	-5	100.0	-6	1000	-4	10000	0		
Silver	A	5.000	1	100.0	-5	1000	-2	2000	1		
Thallium	A	5.000	-38	100.0	-7	1000	0	10000	0		
Tin	A	40.00	-9	100.0	-10	1000	-5	10000	0		
Titanium	A	10.00	-3	100.0	1	1000	2	10000	0		
Vanadium	A	5.000	-9	100.0	-4	1000	-1	10000	0		
Zinc	A	20.00	48	100.0	-3	1000	1	10000	0		
Aluminum	R	100.0	-4			1000	3	10000	6	100000	0
Calcium	R	200.0	48			1000	19	10000	6	100000	0
Iron	R	100.0	1			1000	2	10000	3	100000	0
Magnesium	R	200.0	5			1000	7	10000	6	100000	0
Potassium	R	500.0	0			1000	-3	10000	1	100000	0
Sodium	R	500.0	-3			1000	3	10000	4	100000	0

SGS 1985

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 3/6/2008 9:54:13 PM
Data Type: Reprocessed on 3/6/2008 11:06:39 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	215.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1745.8	258.46	14.80%	[0.00]	ug/L
Al 308.215 R	58.9	2.34	3.97%	[0.00]	ug/L
As 188.979	37.1	17.49	47.14%	[0.00]	ug/L
B 249.677	2844.7	51.20	1.80%	[0.00]	ug/L
Ba 233.527	-21.4	4.66	21.74%	[0.00]	ug/L
Be 313.107	-381.2	215.74	56.59%	[0.00]	ug/L
Ca 315.887 R	858.9	28.47	3.32%	[0.00]	ug/L
Cd 214.440	752.0	10.84	1.44%	[0.00]	ug/L
Co 228.616	-306.6	9.06	2.96%	[0.00]	ug/L
Cr 267.716	-233.5	9.49	4.06%	[0.00]	ug/L
Cu 324.752	5358.4	237.31	4.43%	[0.00]	ug/L
Fe 238.204 R	320.6	2.47	0.77%	[0.00]	ug/L
K 766.490 R	2583.0	161.90	6.27%	[0.00]	ug/L
Mg 279.077 R	-60.2	3.41	5.68%	[0.00]	ug/L
Mn 257.610	2581.3	32.93	1.28%	[0.00]	ug/L
Mo 202.031	39.9	7.69	19.26%	[0.00]	ug/L
Na 589.592 R	-7632.3	222.09	2.91%	[0.00]	ug/L
Ni 231.604	-494.7	1.81	0.37%	[0.00]	ug/L
Pb 220.353	365.0	16.48	4.51%	[0.00]	ug/L
Sb 206.836	-55.7	63.19	113.51%	[0.00]	ug/L
Se 196.026	416.4	55.16	13.25%	[0.00]	ug/L
Ti 334.940 R	574.7	192.02	33.41%	[0.00]	ug/L
Tl 190.801	42.8	26.27	61.43%	[0.00]	ug/L
V 292.402	112.2	12.74	11.36%	[0.00]	ug/L
Zn 206.200	3805.0	39.17	1.03%	[0.00]	ug/L
Sn 189.927	12.9	4.26	33.00%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/6/2008 9:58:21 PM
Data Type: Reprocessed on 3/6/2008 11:06:40 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	215.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3923232.8	51105.83	1.30%	100.0	%
Y	322626.3	18942.35	5.87%	100.0	%
Ag 328.068†	3070.5	151.91	4.95%	[5.0]	ug/L
Al 308.215 R†	139.1	10.77	7.74%	[100]	ug/L
As 188.979†	117.8	21.13	17.95%	[5.0]	ug/L
B 249.677†	15689.5	247.95	1.58%	[100]	ug/L
Ba 233.527†	1867.6	39.69	2.13%	[5.0]	ug/L
Be 313.107†	7954.4	82.67	1.04%	[2.0]	ug/L
Ca 315.887 R†	5550.0	383.07	6.90%	[200]	ug/L
Cd 214.440†	1795.6	32.09	1.79%	[5.0]	ug/L
Co 228.616†	606.9	1.92	0.32%	[5.0]	ug/L
Cr 267.716†	397.9	6.94	1.75%	[5.0]	ug/L
Cu 324.752†	2415.8	186.55	7.72%	[5.0]	ug/L
Fe 238.204 R†	778.0	64.72	8.32%	[100]	ug/L
K 766.490 R†	3818.0	529.84	13.88%	[500]	ug/L
Mg 279.077 R†	426.7	24.06	5.64%	[200]	ug/L
Mn 257.610†	7486.5	121.20	1.62%	[5.0]	ug/L
Mo 202.031†	207.7	0.58	0.28%	[5.0]	ug/L
Na 589.592 R†	5900.7	325.31	5.51%	[500]	ug/L
Ni 231.604†	280.0	6.17	2.20%	[5.0]	ug/L
Pb 220.353†	154.8	35.92	23.21%	[3.0]	ug/L
Sb 206.836†	176.2	8.25	4.68%	[5.0]	ug/L
Se 196.026†	167.2	14.66	8.77%	[5.0]	ug/L
Ti 334.940 R†	12440.0	181.14	1.46%	[10]	ug/L
Tl 190.801†	60.8	31.25	51.43%	[5.0]	ug/L
V 292.402†	596.5	4.72	0.79%	[5.0]	ug/L
Zn 206.200†	3377.3	100.43	2.97%	[20]	ug/L
Sn 189.927†	1096.4	17.31	1.58%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/6/2008 10:02:33 PM
Data Type: Reprocessed on 3/6/2008 11:06:41 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	215.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3948242.3	54199.60	1.37%	100.6	%
Y	311324.5	5843.73	1.88%	96.50	%
Ag 328.068†	58094.4	689.11	1.19%	[100]	ug/L
As 188.979†	2266.8	39.58	1.75%	[100]	ug/L
Ba 233.527†	39704.0	205.06	0.52%	[100]	ug/L
Be 313.107†	383767.1	3071.28	0.80%	[100]	ug/L
Cd 214.440†	37671.6	195.22	0.52%	[100]	ug/L
Co 228.616†	12163.5	192.49	1.58%	[100]	ug/L
Cr 267.716†	8202.7	111.73	1.36%	[100]	ug/L
Cu 324.752†	44684.9	314.68	0.70%	[100]	ug/L
Mn 257.610†	153903.7	1245.97	0.81%	[100]	ug/L
Mo 202.031†	4219.8	62.21	1.47%	[100]	ug/L
Ni 231.604†	5058.1	66.28	1.31%	[100]	ug/L
Pb 220.353†	6218.2	71.51	1.15%	[100]	ug/L
Sb 206.836†	3562.2	46.19	1.30%	[100]	ug/L
Se 196.026†	3294.0	67.05	2.04%	[100]	ug/L
Ti 334.940 R†	129975.4	1017.17	0.78%	[100]	ug/L
Tl 190.801†	1826.9	19.77	1.08%	[100]	ug/L
V 292.402†	12610.8	181.70	1.44%	[100]	ug/L
Zn 206.200†	11110.6	214.08	1.93%	[100]	ug/L
Sn 189.927†	2693.3	35.73	1.33%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/6/2008 10:05:47 PM
Data Type: Reprocessed on 3/6/2008 11:06:42 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	214.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3876564.9	56248.03	1.45%	98.81	%
Y	321907.1	8726.70	2.71%	99.78	%
Ag 328.068†	597093.3	6302.88	1.06%	[1000]	ug/L
Al 308.215 R†	1499.8	45.65	3.04%	[1000]	ug/L
As 188.979†	23409.1	258.29	1.10%	[1000]	ug/L
B 249.677†	169660.9	2845.14	1.68%	[1000]	ug/L
Ba 233.527†	406640.3	3592.28	0.88%	[1000]	ug/L
Be 313.107†	3889898.8	14642.98	0.38%	[1000]	ug/L
Ca 315.887 R†	22294.1	1049.99	4.71%	[1000]	ug/L
Cd 214.440†	386590.3	3711.97	0.96%	[1000]	ug/L
Co 228.616†	130092.7	1019.95	0.78%	[1000]	ug/L
Cr 267.716†	85570.8	1016.75	1.19%	[1000]	ug/L
Cu 324.752†	461200.8	4549.83	0.99%	[1000]	ug/L
Fe 238.204 R†	7884.6	364.85	4.63%	[1000]	ug/L
K 766.490 R†	7458.3	418.63	5.61%	[1000]	ug/L
Mg 279.077 R†	2180.1	110.69	5.08%	[1000]	ug/L
Mn 257.610†	1543300.4	1987.64	0.13%	[1000]	ug/L
Mo 202.031†	43386.2	543.40	1.25%	[1000]	ug/L
Na 589.592 R†	12444.3	121.69	0.98%	[1000]	ug/L
Ni 231.604†	53916.9	684.58	1.27%	[1000]	ug/L
Pb 220.353†	63666.2	630.75	0.99%	[1000]	ug/L
Sb 206.836†	36992.3	331.22	0.90%	[1000]	ug/L
Se 196.026†	33902.4	371.05	1.09%	[1000]	ug/L
Ti 334.940 R†	1307750.5	2162.85	0.17%	[1000]	ug/L
Tl 190.801†	19629.8	208.80	1.06%	[1000]	ug/L
V 292.402†	129736.0	1569.61	1.21%	[1000]	ug/L
Zn 206.200†	115196.1	1251.97	1.09%	[1000]	ug/L
Sn 189.927†	28537.3	283.93	0.99%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 3/6/2008 10:09:10 PM
Data Type: Reprocessed on 3/6/2008 11:06:43 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	215.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3735482.7	32624.66	0.87%	95.21	%
Y	308639.6	6841.89	2.22%	95.66	%
Ag 328.068†	1228349.3	6460.21	0.53%	[2000]	ug/L
Al 308.215 R†	15370.0	330.39	2.15%	[10000]	ug/L
As 188.979†	240517.8	2661.31	1.11%	[10000]	ug/L
B 249.677†	1750702.7	6024.81	0.34%	[10000]	ug/L
Ba 233.527†	4011073.2	46273.95	1.15%	[10000]	ug/L
Ca 315.887 R†	198789.5	4267.15	2.15%	[10000]	ug/L
Cd 214.440†	3784298.5	48375.52	1.28%	[10000]	ug/L
Co 228.616†	1300822.1	4640.91	0.36%	[10000]	ug/L
Cr 267.716†	844934.6	1755.63	0.21%	[10000]	ug/L
Cu 324.752†	4724325.7	58840.32	1.25%	[10000]	ug/L
Fe 238.204 R†	79932.4	1731.15	2.17%	[10000]	ug/L
K 766.490 R†	77158.8	1494.65	1.94%	[10000]	ug/L
Mg 279.077 R†	21554.0	610.13	2.83%	[10000]	ug/L
Mn 257.610†	15212770.2	193046.92	1.27%	[10000]	ug/L
Mo 202.031†	437145.9	2622.31	0.60%	[10000]	ug/L
Na 589.592 R†	125975.0	1407.33	1.12%	[10000]	ug/L
Ni 231.604†	539232.1	4099.82	0.76%	[10000]	ug/L
Pb 220.353†	637867.5	3088.41	0.48%	[10000]	ug/L
Sb 206.836†	382136.8	5029.09	1.32%	[10000]	ug/L
Se 196.026†	352013.0	4543.54	1.29%	[10000]	ug/L
Ti 334.940 R†	12878761.6	161574.11	1.25%	[10000]	ug/L
Tl 190.801†	196888.1	2439.31	1.24%	[10000]	ug/L
V 292.402†	1311115.2	4192.86	0.32%	[10000]	ug/L
Zn 206.200†	1141786.9	4043.80	0.35%	[10000]	ug/L
Sn 189.927†	300527.4	1880.31	0.63%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 3/6/2008 10:13:39 PM
Data Type: Reprocessed on 3/6/2008 11:06:44 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	215.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3530618.4	12518.38	0.35%	89.99	%
Y	291128.4	3913.80	1.34%	90.24	%
Al 308.215 R†	144849.2	1146.12	0.79%	[100000]	ug/L
Ca 315.887 R†	1878636.5	17355.86	0.92%	[100000]	ug/L
Fe 238.204 R†	773092.8	6893.24	0.89%	[100000]	ug/L
K 766.490 R†	766584.5	8200.86	1.07%	[100000]	ug/L
Mg 279.077 R†	203632.1	2131.58	1.05%	[100000]	ug/L
Na 589.592 R†	1212728.6	11842.80	0.98%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	610.7	0.00000	0.999935	
Al 308.215 R	4	Lin Thru 0	0.0	1.449	0.00000	0.999982	
As 188.979	4	Lin Thru 0	0.0	24.05	0.00000	0.999996	
B 249.677	3	Lin Thru 0	0.0	175.0	0.00000	0.999995	
Ba 233.527	4	Lin Thru 0	0.0	401.2	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	3889	0.00000	0.999999	
Ca 315.887 R	4	Lin Thru 0	0.0	18.80	0.00000	0.999981	
Cd 214.440	4	Lin Thru 0	0.0	378.5	0.00000	0.999998	
Co 228.616	4	Lin Thru 0	0.0	130.1	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	84.50	0.00000	0.999999	
Cu 324.752	4	Lin Thru 0	0.0	472.3	0.00000	0.999997	
Fe 238.204 R	4	Lin Thru 0	0.0	7.734	0.00000	0.999994	
K 766.490 R	4	Lin Thru 0	0.0	7.666	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	2.038	0.00000	0.999983	
Mn 257.610	4	Lin Thru 0	0.0	1521	0.00000	0.999999	
Mo 202.031	4	Lin Thru 0	0.0	43.71	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	12.13	0.00000	0.999993	
Ni 231.604	4	Lin Thru 0	0.0	53.92	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	63.79	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	38.20	0.00000	0.999995	
Se 196.026	4	Lin Thru 0	0.0	35.19	0.00000	0.999993	
Ti 334.940 R	4	Lin Thru 0	0.0	1288	0.00000	0.999999	
Tl 190.801	4	Lin Thru 0	0.0	19.69	0.00000	1.000000	
V 292.402	4	Lin Thru 0	0.0	131.1	0.00000	0.999999	
Zn 206.200	4	Lin Thru 0	0.0	114.2	0.00000	0.999999	
Sn 189.927	4	Lin Thru 0	0.0	30.04	0.00000	0.999987	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08
Seqnum : 88096354007
Cal : 88096354001
Standards: S8496

File : 030608br
Caldate : 06-MAR-2008

IDF : 1.0
Time : 06-MAR-2008 22:17

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	36.515	37.327	5000	4886	ug/L	-2	10	
Arsenic	A	23.420	23.936	5000	4977	ug/L	0	10	
Barium	A	394.58	398.01	5000	4961	ug/L	-1	10	
Beryllium	A	3901.6	3984.6	500.0	512.2	ug/L	2	10	
Boron	A	167.21	172.70	5000	4934	ug/L	-1	10	
Cadmium	A	375.21	377.80	5000	4991	ug/L	0	10	
Chromium	A	82.918	81.174	5000	4803	ug/L	-4	10	
Cobalt	A	125.80	124.80	5000	4787	ug/L	-4	10	
Copper	A	465.91	453.95	5000	4806	ug/L	-4	10	
Lead	A	60.307	60.978	5000	4780	ug/L	-4	10	
Manganese	A	1525.2	1491.6	5000	4902	ug/L	-2	10	
Molybdenum	A	42.709	42.867	5000	4903	ug/L	-2	10	
Nickel	A	53.606	51.519	5000	4777	ug/L	-4	10	
Selenium	A	33.870	34.342	5000	4880	ug/L	-2	10	
Silver	A	601.58	607.29	1000	994.4	ug/L	-1	10	
Thallium	A	17.435	18.867	5000	4791	ug/L	-4	10	
Tin	A	28.233	28.833	5000	4800	ug/L	-4	10	
Titanium	A	1284.8	1267.1	5000	4919	ug/L	-2	10	
Vanadium	A	126.57	127.97	5000	4881	ug/L	-2	10	
Zinc	A	127.34	110.41	5000	4834	ug/L	-3	10	
Aluminum	R	1.4691	1.4723	20000	20320	ug/L	2	10	
Calcium	R	22.177	19.525	20000	20770	ug/L	4	10	
Iron	R	7.8473	8.0341	20000	20780	ug/L	4	10	
Magnesium	R	2.1264	2.1493	20000	21100	ug/L	5	10	
Potassium	R	7.6190	7.6238	20000	19890	ug/L	-1	10	
Sodium	R	12.243	12.583	20000	20740	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3923233	3731114	-4.90

88096354007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88096354008 File : 030608br IDF : 1.0
Cal : 88096354001 Caldate : 06-MAR-2008 Time : 06-MAR-2008 22:22

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	[4.217]	5.000	2.262	ug/L	!ib
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3923233	3878539	-1.14

!=warning ib=instrument blank

88096354008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08
Seqnum : 88096354009
Cal : 88096354001
Standards: S8252

File : 030608br
Caldate : 06-MAR-2008

IDF : 1.0
Time : 06-MAR-2008 22:26

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	6.059	5.000	ug/L	!a+
Arsenic	A	[3.138]	5.000	ug/L	!a+
Barium	A	[-1.828]	5.000	ug/L	!a-
Beryllium	A	[-0.08094]	2.000	ug/L	
Boron	A	[-19.70]	100.0	ug/L	
Cadmium	A	[-1.572]	5.000	ug/L	!a-
Cobalt	A	[1.487]	5.000	ug/L	!a+
Lead	A	[-1.883]	3.000	ug/L	
Molybdenum	A	[-3.392]	5.000	ug/L	!a-
Selenium	A	6.351	5.000	ug/L	!a+
Silver	A	[-1.550]	5.000	ug/L	!a-
Thallium	A	[-2.805]	5.000	ug/L	!a-
Tin	A	[-12.86]	40.00	ug/L	!a-
Zinc	A	[-1.954]	20.00	ug/L	
Potassium	R	[-58.25]	500.0	ug/L	
Sodium	R	[125.2]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18900	ug/L	95
Copper	A	20000	20400	ug/L	102
Manganese	A	20000	18450	ug/L	92
Nickel	A	20000	17890	ug/L	89
Titanium	A	20000	20070	ug/L	100
Vanadium	A	20000	19500	ug/L	98
Aluminum	R	500000	482300	ug/L	96
Calcium	R	500000	458800	ug/L	92
Iron	R	200000	184100	ug/L	92
Magnesium	R	500000	477700	ug/L	96

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3923233	3285003	-16.27

!=warning +=high bias -=low bias a=ICSA

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 88096354010
Cal : 88096354001
Standards: S8351

File : 030608br
Caldate : 06-MAR-2008

IDF : 1.0
Time : 06-MAR-2008 23:45

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	508.9	ug/L	2	20	
Arsenic	A	500.0	531.6	ug/L	6	20	
Barium	A	500.0	527.2	ug/L	5	20	
Beryllium	A	500.0	535.8	ug/L	7	20	
Cadmium	A	1000	976.3	ug/L	-2	20	
Chromium	A	500.0	491.9	ug/L	-2	20	
Cobalt	A	500.0	454.9	ug/L	-9	20	
Copper	A	500.0	486.7	ug/L	-3	20	
Lead	A	1000	913.9	ug/L	-9	20	
Manganese	A	500.0	465.2	ug/L	-7	20	
Molybdenum	A	500.0	495.7	ug/L	-1	20	
Nickel	A	1000	910.6	ug/L	-9	20	
Selenium	A	500.0	522.0	ug/L	4	20	
Silver	A	1000	1027	ug/L	3	20	
Thallium	A	500.0	451.4	ug/L	-10	20	
Titanium	A	20000	19960	ug/L	0		
Vanadium	A	500.0	521.1	ug/L	4	20	
Zinc	A	1000	955.2	ug/L	-4	20	
Aluminum	R	500000	491100	ug/L	-2		
Calcium	R	500000	479900	ug/L	-4		
Iron	R	200000	186600	ug/L	-7		
Magnesium	R	500000	485800	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3923233	3322620	-15.31

88096354010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 88096354020
Cal : 88096354001
Standards: S8497

File : 030608br
Caldate : 06-MAR-2008

IDF : 1.0
Time : 07-MAR-2008 00:15

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.515	36.867	5000	4825	ug/L	-3	10	
Arsenic	A	23.420	23.633	5000	4914	ug/L	-2	10	
Barium	A	394.58	398.44	5000	4966	ug/L	-1	10	
Beryllium	A	3901.6	3988.7	500.0	512.8	ug/L	3	10	
Boron	A	167.21	174.74	5000	4992	ug/L	0	10	
Cadmium	A	375.21	373.56	5000	4935	ug/L	-1	10	
Chromium	A	82.918	81.171	5000	4803	ug/L	-4	10	
Cobalt	A	125.80	124.53	5000	4777	ug/L	-4	10	
Copper	A	465.91	452.27	5000	4788	ug/L	-4	10	
Lead	A	60.307	60.718	5000	4760	ug/L	-5	10	
Manganese	A	1525.2	1488.1	5000	4890	ug/L	-2	10	
Molybdenum	A	42.709	43.029	5000	4922	ug/L	-2	10	
Nickel	A	53.606	51.438	5000	4770	ug/L	-5	10	
Selenium	A	33.870	34.050	5000	4838	ug/L	-3	10	
Silver	A	601.58	605.11	1000	990.9	ug/L	-1	10	
Thallium	A	17.435	18.965	5000	4816	ug/L	-4	10	
Tin	A	28.233	28.782	5000	4791	ug/L	-4	10	
Titanium	A	1284.8	1269.9	5000	4930	ug/L	-1	10	
Vanadium	A	126.57	127.81	5000	4875	ug/L	-3	10	
Zinc	A	127.34	109.64	5000	4801	ug/L	-4	10	
Aluminum	R	1.4691	1.4193	20000	19580	ug/L	-2	10	
Calcium	R	22.177	18.923	20000	20130	ug/L	1	10	
Iron	R	7.8473	7.8251	20000	20240	ug/L	1	10	
Magnesium	R	2.1264	2.0939	20000	20550	ug/L	3	10	
Potassium	R	7.6190	7.2959	20000	19030	ug/L	-5	10	
Sodium	R	12.243	12.272	20000	20230	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3923233	3720040	-5.18

88096354020

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88096354021 File : 030608br IDF : 1.0
Cal : 88096354001 Caldate : 06-MAR-2008 Time : 07-MAR-2008 00:19

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	[1.938]	5.000	1.927	ug/L	!ib
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	[1.232]	5.000	0.6597	ug/L	!ib
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3923233	3892515	-0.78

!=warning ib=instrument blank

88096354021

00181

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 88096354032
Cal : 88096354001
Standards: S8351

File : 030608br
Caldate : 06-MAR-2008

IDF : 1.0
Time : 07-MAR-2008 00:55

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	494.8	ug/L	-1	20	
Arsenic	A	500.0	534.0	ug/L	7	20	
Barium	A	500.0	519.6	ug/L	4	20	
Beryllium	A	500.0	529.3	ug/L	6	20	
Cadmium	A	1000	950.3	ug/L	-5	20	
Chromium	A	500.0	484.8	ug/L	-3	20	
Cobalt	A	500.0	454.3	ug/L	-9	20	
Copper	A	500.0	484.2	ug/L	-3	20	
Lead	A	1000	913.7	ug/L	-9	20	
Manganese	A	500.0	458.1	ug/L	-8	20	
Molybdenum	A	500.0	497.3	ug/L	-1	20	
Nickel	A	1000	896.3	ug/L	-10	20	
Selenium	A	500.0	505.1	ug/L	1	20	
Silver	A	1000	1018	ug/L	2	20	
Thallium	A	500.0	449.0	ug/L	-10	20	
Titanium	A	20000	19850	ug/L	-1		
Vanadium	A	500.0	518.0	ug/L	4	20	
Zinc	A	1000	922.2	ug/L	-8	20	
Aluminum	R	500000	513800	ug/L	3		
Calcium	R	500000	492500	ug/L	-2		
Iron	R	200000	191600	ug/L	-4		
Magnesium	R	500000	491300	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3923233	3299043	-15.91

88096354032

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 88096354033
Cal : 88096354001
Standards: S8497

File : 030608br
Caldate : 06-MAR-2008

IDF : 1.0
Time : 07-MAR-2008 00:59

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.515	36.170	5000	4734	ug/L	-5	10	
Arsenic	A	23.420	22.833	5000	4748	ug/L	-5	10	
Barium	A	394.58	390.55	5000	4868	ug/L	-3	10	
Beryllium	A	3901.6	3892.5	500.0	500.4	ug/L	0	10	
Boron	A	167.21	167.32	5000	4780	ug/L	-4	10	
Cadmium	A	375.21	361.84	5000	4780	ug/L	-4	10	
Chromium	A	82.918	79.438	5000	4700	ug/L	-6	10	
Cobalt	A	125.80	121.09	5000	4645	ug/L	-7	10	
Copper	A	465.91	446.52	5000	4727	ug/L	-5	10	
Lead	A	60.307	58.581	5000	4592	ug/L	-8	10	
Manganese	A	1525.2	1457.0	5000	4788	ug/L	-4	10	
Molybdenum	A	42.709	41.958	5000	4799	ug/L	-4	10	
Nickel	A	53.606	49.864	5000	4624	ug/L	-8	10	
Selenium	A	33.870	32.664	5000	4641	ug/L	-7	10	
Silver	A	601.58	594.92	1000	974.2	ug/L	-3	10	
Thallium	A	17.435	18.354	5000	4661	ug/L	-7	10	
Tin	A	28.233	27.645	5000	4602	ug/L	-8	10	
Titanium	A	1284.8	1253.2	5000	4864	ug/L	-3	10	
Vanadium	A	126.57	125.72	5000	4795	ug/L	-4	10	
Zinc	A	127.34	105.13	5000	4603	ug/L	-8	10	
Aluminum	R	1.4691	1.4751	20000	20360	ug/L	2	10	
Calcium	R	22.177	19.455	20000	20700	ug/L	3	10	
Iron	R	7.8473	7.9917	20000	20670	ug/L	3	10	
Magnesium	R	2.1264	2.1102	20000	20710	ug/L	4	10	
Potassium	R	7.6190	7.4517	20000	19440	ug/L	-3	10	
Sodium	R	12.243	12.481	20000	20570	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3923233	3769086	-3.93

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 88096354034 File : 030608br Time : 07-MAR-2008 01:04
Cal : 88096354001 Caldate : 06-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	[0.8360]	5.000	0.6597	ug/L	!ib
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3923233	4028945	2.69

!=warning ib=instrument blank

88096354034

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 88096990 Instrument: MET08 PE ICP Begun: 07-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	030708r	ICALBLK				07-MAR-2008 08:30	1.0	1.0				
002	030708r	ICAL	CRIM08			07-MAR-2008 08:34	1.0	1.0			1	
003	030708r	ICAL	CS100			07-MAR-2008 08:38	1.0	1.0			2	
004	030708r	ICAL	CS1K			07-MAR-2008 08:42	1.0	1.0			3	
005	030708r	ICAL	CS10K			07-MAR-2008 08:44	1.0	1.0			4	
006	030708r	ICAL	CS100K			07-MAR-2008 08:48	1.0	1.0			5	
007	030708r	ICV				07-MAR-2008 08:53	1.0	1.0		5000	6	
008	030708r	ICB				07-MAR-2008 08:57	1.0	1.0		5000		
009	030708r	ICSA				07-MAR-2008 09:01	1.0	1.0		5000	7	10:AL=506595
010	030708r	ICSAB				07-MAR-2008 09:06	1.0	1.0		5000	8	5:AL=512024
011	030708r	X	PB 50 PPM			07-MAR-2008 09:10	1.0					
012	030708r	X	RINSE			07-MAR-2008 09:16	1.0					
013	030708r	X	RINSE			07-MAR-2008 09:26	1.0					
014	030708r	MSS	201726-001	135681	Soil	07-MAR-2008 09:31	1.0	45.87	3	5000		3:FE=384888
015	030708r	SAMPLE	201726-002	135681	Soil	07-MAR-2008 09:33	1.0	44.64	1	5000		4:FE=447593
016	030708r	SAMPLE	201726-003	135681	Soil	07-MAR-2008 09:36	1.0	46.30		5000		3:FE=441356
017	030708r	CCV				07-MAR-2008 09:38	1.0	1.0		5000	9	
018	030708r	CCB				07-MAR-2008 09:42	1.0	1.0		5000		
019	030708r	SAMPLE	201703-001	135681	Soil	07-MAR-2008 09:47	1.0	44.64	3	5000		6:FE=431882
020	030708r	SAMPLE	201703-001	135681	Soil	07-MAR-2008 09:51	10.0	44.64		5000		
021	030708r	SAMPLE	201710-001	135681	Miscel	07-MAR-2008 09:54	10.0	47.17		5000		
022	030708r	SAMPLE	201711-001	135681	Miscel	07-MAR-2008 09:57	1.0	47.17	1	5000		2:FE=310596
023	030708r	SAMPLE	201711-001	135681	Miscel	07-MAR-2008 10:02	10.0	47.17		5000		
024	030708r	SAMPLE	201724-003	135681	Soil	07-MAR-2008 10:05	1.0	45.05		5000		3:FE=366700
025	030708r	SAMPLE	201737-001	135681	Soil	07-MAR-2008 10:07	1.0	45.45		5000		4:FE=349046
026	030708r	ICSAB				07-MAR-2008 10:10	1.0	1.0		5000	8	5:AL=532811
027	030708r	CCV				07-MAR-2008 10:15	1.0	1.0		5000	9	
028	030708r	CCB				07-MAR-2008 10:19	1.0	1.0		5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8496 7=S8252 8=S8351 9=S8497

Analyst: _____ Date: 3/7/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 88096990001
Units : ug/L

Date : 07-MAR-2008 08:30
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	030708r	88096990002	CRIM08	07-MAR-2008 08:34	S8428
L2	030708r	88096990003	CS100	07-MAR-2008 08:38	S8350
L3	030708r	88096990004	CS1K	07-MAR-2008 08:42	S8349
L4	030708r	88096990005	CS10K	07-MAR-2008 08:44	S8393
L5	030708r	88096990006	CS100K	07-MAR-2008 08:48	S8370

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	49.033	37.462	36.990	36.942		LOR0	0.00000	0.02707		40.107	1.000	0.995	
Arsenic	A	29.562	25.923	25.485	25.518		LOR0	0.00000	0.03919		26.622	1.000	0.995	
Barium	A	375.59	390.17	388.84	379.40		LOR0	0.00000	0.00264		383.50	1.000	0.995	
Beryllium	A	3734.5	3642.5	3641.9			LOR0	0.00000	2.75E-4		3673.0	1.000	0.995	
Boron	A	167.45		172.30	176.13		LOR0	0.00000	0.00568		171.96	1.000	0.995	
Cadmium	A	406.67	414.50	413.94	399.02		LOR0	0.00000	0.00251		408.53	1.000	0.995	
Chromium	A	74.182	72.600	72.353	72.136		LOR0	0.00000	0.01386		72.818	1.000	0.995	
Cobalt	A	129.62	133.06	131.92	130.90		LOR0	0.00000	0.00764		131.38	1.000	0.995	
Copper	A	462.89	453.13	445.09	440.19		LOR0	0.00000	0.00227		450.33	1.000	0.995	
Lead	A	68.504	66.248	65.516	64.189		LOR0	0.00000	0.01558		66.114	1.000	0.995	
Manganese	A	1498.4	1507.8	1506.7	1463.5		LOR0	0.00000	6.83E-4		1494.1	1.000	0.995	
Molybdenum	A	38.202	40.407	40.062	39.711		LOR0	0.00000	0.02518		39.595	1.000	0.995	
Nickel	A	49.952	51.136	51.105	51.091		LOR0	0.00000	0.01957		50.821	1.000	0.995	
Selenium	A	37.573	38.981	38.403	38.914		LOR0	0.00000	0.02570		38.468	1.000	0.995	
Silver	A	458.41	511.79	508.92	524.82		LOR0	0.00000	0.00192		500.99	1.000	0.995	
Thallium	A	18.090	22.003	21.733	21.089		LOR0	0.00000	0.04740		20.729	1.000	0.995	
Tin	A	28.539	28.485	29.126	30.001		LOR0	0.00000	0.03334		29.038	1.000	0.995	
Titanium	A	1162.9	1196.6	1191.3	1141.9		LOR0	0.00000	8.75E-4		1173.2	1.000	0.995	
Vanadium	A	122.71	104.99	105.33	106.00		LOR0	0.00000	0.00943		109.76	1.000	0.995	
Zinc	A	209.55	135.28	129.17	127.15		LOR0	0.00000	0.00786		150.29	1.000	0.995	
Aluminum	R	0.9298		1.1222	1.1517	1.0710	LOR0	0.00000	0.93299		1.0687	1.000	0.995	
Calcium	R	22.629		17.993	15.589	14.590	LOR0	0.00000	0.06849		17.700	1.000	0.995	
Iron	R	6.4726		6.4648	6.4407	6.2267	LOR0	0.00000	0.16054		6.4012	1.000	0.995	
Magnesium	R	1.8642		1.8973	1.9061	1.8049	LOR0	0.00000	0.55372		1.8681	1.000	0.995	
Potassium	R	4.4532		5.3351	5.9244	6.2119	LOR0	0.00000	0.16106		5.4812	1.000	0.995	
Sodium	R	10.621		11.189	11.344	11.184	LOR0	0.00000	0.08940		11.084	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	33	100.0	1	1000	0	10000	0		
Arsenic	A	5.000	16	100.0	2	1000	0	10000	0		
Barium	A	5.000	-1	100.0	3	1000	2	10000	0		
Beryllium	A	2.000	3	100.0	0	1000	0				
Boron	A	100.0	-5			1000	-2	10000	0		
Cadmium	A	5.000	2	100.0	4	1000	4	10000	0		
Chromium	A	5.000	3	100.0	1	1000	0	10000	0		
Cobalt	A	5.000	-1	100.0	2	1000	1	10000	0		
Copper	A	5.000	5	100.0	3	1000	1	10000	0		
Lead	A	3.000	7	100.0	3	1000	2	10000	0		
Manganese	A	5.000	2	100.0	3	1000	3	10000	0		
Molybdenum	A	5.000	-4	100.0	2	1000	1	10000	0		
Nickel	A	5.000	-2	100.0	0	1000	0	10000	0		
Selenium	A	5.000	-3	100.0	0	1000	-1	10000	0		
Silver	A	5.000	-12	100.0	-2	1000	-2	2000	1		
Thallium	A	5.000	-14	100.0	4	1000	3	10000	0		
Tin	A	40.00	-5	100.0	-5	1000	-3	10000	0		
Titanium	A	10.00	2	100.0	5	1000	4	10000	0		
Vanadium	A	5.000	16	100.0	-1	1000	-1	10000	0		
Zinc	A	20.00	65	100.0	6	1000	2	10000	0		
Aluminum	R	100.0	-13			1000	5	10000	7	100000	0
Calcium	R	200.0	55			1000	23	10000	7	100000	0
Iron	R	100.0	4			1000	4	10000	3	100000	0
Magnesium	R	200.0	3			1000	5	10000	6	100000	0
Potassium	R	500.0	-28			1000	-14	10000	-5	100000	0
Sodium	R	500.0	-5			1000	0	10000	1	100000	0

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 3/7/2008 8:30:36 AM
Data Type: Reprocessed on 3/7/2008 9:05:08 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	5034.4	320.47	6.37%	[0.00]	ug/L
Al 308.215 R	61.8	0.88	1.42%	[0.00]	ug/L
As 188.979	77.8	38.02	48.89%	[0.00]	ug/L
B 249.677	5.1	17.19	336.41%	[0.00]	ug/L
Ba 233.527	-155.7	17.66	11.34%	[0.00]	ug/L
Be 313.107	5203.0	131.84	2.53%	[0.00]	ug/L
Ca 315.887 R	652.2	15.18	2.33%	[0.00]	ug/L
Cd 214.440	267.6	10.11	3.78%	[0.00]	ug/L
Co 228.616	-479.1	4.81	1.00%	[0.00]	ug/L
Cr 267.716	-527.5	18.86	3.57%	[0.00]	ug/L
Cu 324.752	6413.4	108.14	1.69%	[0.00]	ug/L
Fe 238.204 R	325.4	6.72	2.07%	[0.00]	ug/L
K 766.490 R	3676.8	216.51	5.89%	[0.00]	ug/L
Mg 279.077 R	-103.0	9.94	9.64%	[0.00]	ug/L
Mn 257.610	2735.0	7.17	0.26%	[0.00]	ug/L
Mo 202.031	12.8	6.20	48.41%	[0.00]	ug/L
Na 589.592 R	-14248.7	269.92	1.89%	[0.00]	ug/L
Ni 231.604	-640.5	7.55	1.18%	[0.00]	ug/L
Pb 220.353	4.8	64.30	>999.9%	[0.00]	ug/L
Sb 206.836	-167.3	30.80	18.41%	[0.00]	ug/L
Se 196.026	452.7	75.74	16.73%	[0.00]	ug/L
Ti 334.940 R	278.6	210.76	75.64%	[0.00]	ug/L
Tl 190.801	-51.4	18.36	35.75%	[0.00]	ug/L
V 292.402	111.0	48.90	44.06%	[0.00]	ug/L
Zn 206.200	-115.5	4.92	4.26%	[0.00]	ug/L
Sn 189.927	-33.3	15.09	45.34%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/7/2008 8:34:42 AM
Data Type: Reprocessed on 3/7/2008 9:05:10 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2870321.1	21053.62	0.73%	100.0	%
Y	214592.8	6598.67	3.07%	100.00	%
Ag 328.068†	2292.1	465.25	20.30%	[5.0]	ug/L
Al 308.215 R†	93.0	4.41	4.74%	[100]	ug/L
As 188.979†	147.8	22.89	15.49%	[5.0]	ug/L
B 249.677†	16744.9	62.46	0.37%	[100]	ug/L
Ba 233.527†	1877.9	17.28	0.92%	[5.0]	ug/L
Be 313.107†	7469.0	45.60	0.61%	[2.0]	ug/L
Ca 315.887 R†	4525.7	188.92	4.17%	[200]	ug/L
Cd 214.440†	2033.3	13.64	0.67%	[5.0]	ug/L
Co 228.616†	648.1	15.97	2.46%	[5.0]	ug/L
Cr 267.716†	370.9	28.63	7.72%	[5.0]	ug/L
Cu 324.752†	2314.5	149.70	6.47%	[5.0]	ug/L
Fe 238.204 R†	647.3	24.05	3.72%	[100]	ug/L
K 766.490 R†	2226.6	524.46	23.55%	[500]	ug/L
Mg 279.077 R†	372.8	18.71	5.02%	[200]	ug/L
Mn 257.610†	7492.2	64.44	0.86%	[5.0]	ug/L
Mo 202.031†	191.0	7.79	4.08%	[5.0]	ug/L
Na 589.592 R†	5310.3	314.83	5.93%	[500]	ug/L
Ni 231.604†	249.8	6.89	2.76%	[5.0]	ug/L
Pb 220.353†	205.5	54.39	26.46%	[3.0]	ug/L
Sb 206.836†	245.2	33.01	13.46%	[5.0]	ug/L
Se 196.026†	187.9	70.94	37.76%	[5.0]	ug/L
Ti 334.940 R†	11628.9	260.32	2.24%	[10]	ug/L
Tl 190.801†	90.4	36.87	40.77%	[5.0]	ug/L
V 292.402†	613.6	46.17	7.52%	[5.0]	ug/L
Zn 206.200†	4190.9	14.29	0.34%	[20]	ug/L
Sn 189.927†	1141.6	4.86	0.43%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/7/2008 8:38:51 AM
Data Type: Reprocessed on 3/7/2008 9:05:12 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	203.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Y 371.029	2833013.7	24412.45	0.86%	98.70	%
Y	206583.7	1714.65	0.83%	96.27	%
Ag 328.068†	51179.5	1146.19	2.24%	[100]	ug/L
As 188.979†	2592.3	55.73	2.15%	[100]	ug/L
Ba 233.527†	39016.6	785.27	2.01%	[100]	ug/L
Be 313.107†	364246.3	9566.87	2.63%	[100]	ug/L
Cd 214.440†	41449.8	805.42	1.94%	[100]	ug/L
Co 228.616†	13306.3	148.32	1.11%	[100]	ug/L
Cr 267.716†	7260.0	78.75	1.08%	[100]	ug/L
Cu 324.752†	45312.6	972.71	2.15%	[100]	ug/L
Mn 257.610†	150783.8	3400.38	2.26%	[100]	ug/L
Mo 202.031†	4040.7	58.75	1.45%	[100]	ug/L
Ni 231.604†	5113.6	66.32	1.30%	[100]	ug/L
Pb 220.353†	6624.8	44.93	0.68%	[100]	ug/L
Sb 206.836†	3746.2	61.74	1.65%	[100]	ug/L
Se 196.026†	3898.1	200.35	5.14%	[100]	ug/L
Ti 334.940 R†	119662.3	2904.34	2.43%	[100]	ug/L
Tl 190.801†	2200.3	13.53	0.61%	[100]	ug/L
V 292.402†	10498.5	297.96	2.84%	[100]	ug/L
Zn 206.200†	13528.2	169.96	1.26%	[100]	ug/L
Sn 189.927†	2848.5	36.84	1.29%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/7/2008 8:42:01 AM
Data Type: Reprocessed on 3/7/2008 9:05:13 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2903974.9	47366.32	1.63%	101.2	%
Y	206418.4	6903.52	3.34%	96.19	%
Ag 328.068†	508918.2	6033.34	1.19%	[1000]	ug/L
Al 308.215 R†	1122.2	45.52	4.06%	[1000]	ug/L
As 188.979†	25484.9	57.52	0.23%	[1000]	ug/L
B 249.677†	172298.5	863.04	0.50%	[1000]	ug/L
Ba 233.527†	388839.6	4257.66	1.09%	[1000]	ug/L
Be 313.107†	3641931.8	27408.67	0.75%	[1000]	ug/L
Ca 315.887 R†	17993.0	1126.32	6.26%	[1000]	ug/L
Cd 214.440†	413935.3	4472.49	1.08%	[1000]	ug/L
Co 228.616†	131922.0	1132.74	0.86%	[1000]	ug/L
Cr 267.716†	72353.1	657.90	0.91%	[1000]	ug/L
Cu 324.752†	445094.3	5172.81	1.16%	[1000]	ug/L
Fe 238.204 R†	6464.8	381.85	5.91%	[1000]	ug/L
K 766.490 R†	5335.1	299.13	5.61%	[1000]	ug/L
Mg 279.077 R†	1897.3	127.91	6.74%	[1000]	ug/L
Mn 257.610†	1506675.8	17014.43	1.13%	[1000]	ug/L
Mo 202.031†	40061.8	244.55	0.61%	[1000]	ug/L
Na 589.592 R†	11189.0	27.79	0.25%	[1000]	ug/L
Ni 231.604†	51105.1	346.62	0.68%	[1000]	ug/L
Pb 220.353†	65515.7	457.03	0.70%	[1000]	ug/L
Sb 206.836†	36989.7	436.55	1.18%	[1000]	ug/L
Se 196.026†	38403.1	397.24	1.03%	[1000]	ug/L
Ti 334.940 R†	1191304.4	13407.71	1.13%	[1000]	ug/L
Tl 190.801†	21732.9	199.32	0.92%	[1000]	ug/L
V 292.402†	105334.6	961.16	0.91%	[1000]	ug/L
Zn 206.200†	129169.7	1095.97	0.85%	[1000]	ug/L
Sn 189.927†	29126.2	308.80	1.06%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 3/7/2008 8:44:23 AM
Data Type: Reprocessed on 3/7/2008 9:05:14 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	206.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2843832.8	17373.02	0.61%	99.08	%
Y	208971.3	10136.82	4.85%	97.38	%
Ag 328.068†	1049634.9	1748.15	0.17%	[2000]	ug/L
Al 308.215 R†	11517.3	147.82	1.28%	[10000]	ug/L
As 188.979†	255180.5	1366.01	0.54%	[10000]	ug/L
B 249.677†	1761270.7	8547.57	0.49%	[10000]	ug/L
Ba 233.527†	3794013.0	18354.66	0.48%	[10000]	ug/L
Ca 315.887 R†	155891.9	1432.60	0.92%	[10000]	ug/L
Cd 214.440†	3990167.9	25476.20	0.64%	[10000]	ug/L
Co 228.616†	1309022.8	1618.82	0.12%	[10000]	ug/L
Cr 267.716†	721359.2	3139.79	0.44%	[10000]	ug/L
Cu 324.752†	4401898.1	21206.36	0.48%	[10000]	ug/L
Fe 238.204 R†	64406.9	565.62	0.88%	[10000]	ug/L
K 766.490 R†	59244.2	1148.09	1.94%	[10000]	ug/L
Mg 279.077 R†	19060.6	231.04	1.21%	[10000]	ug/L
Mn 257.610†	14635430.6	67597.06	0.46%	[10000]	ug/L
Mo 202.031†	397110.2	773.52	0.19%	[10000]	ug/L
Na 589.592 R†	113437.3	4886.11	4.31%	[10000]	ug/L
Ni 231.604†	510913.5	1205.53	0.24%	[10000]	ug/L
Pb 220.353†	641887.5	1564.44	0.24%	[10000]	ug/L
Sb 206.836†	369422.3	1962.61	0.53%	[10000]	ug/L
Se 196.026†	389139.5	3537.39	0.91%	[10000]	ug/L
Ti 334.940 R†	11418542.0	47689.81	0.42%	[10000]	ug/L
Tl 190.801†	210892.6	2059.82	0.98%	[10000]	ug/L
V 292.402†	1060005.8	1216.53	0.11%	[10000]	ug/L
Zn 206.200†	1271484.4	5996.15	0.47%	[10000]	ug/L
Sn 189.927†	300013.9	639.51	0.21%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 3/7/2008 8:48:54 AM
Data Type: Reprocessed on 3/7/2008 9:05:15 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	210.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2792588.6	53740.94	1.92%	97.29	%
Y	208191.9	1198.69	0.58%	97.02	%
Al 308.215 R†	107101.9	3757.27	3.51%	[100000]	ug/L
Ca 315.887 R†	1459015.1	47844.59	3.28%	[100000]	ug/L
Fe 238.204 R†	622667.4	19597.19	3.15%	[100000]	ug/L
K 766.490 R†	621190.5	16339.71	2.63%	[100000]	ug/L
Mg 279.077 R†	180494.9	5870.14	3.25%	[100000]	ug/L
Na 589.592 R†	1118444.5	32399.10	2.90%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	521.6	0.00000	0.999925	
Al 308.215 R	4	Lin Thru 0	0.0	1.072	0.00000	0.999972	
As 188.979	4	Lin Thru 0	0.0	25.52	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	176.1	0.00000	0.999998	
Ba 233.527	4	Lin Thru 0	0.0	379.5	0.00000	0.999997	
Be 313.107	3	Lin Thru 0	0.0	3642	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	14.60	0.00000	0.999974	
Cd 214.440	4	Lin Thru 0	0.0	399.2	0.00000	0.999993	
Co 228.616	4	Lin Thru 0	0.0	130.9	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	72.14	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	440.2	0.00000	0.999999	
Fe 238.204 R	4	Lin Thru 0	0.0	6.229	0.00000	0.999994	
K 766.490 R	4	Lin Thru 0	0.0	6.209	0.00000	0.999988	
Mg 279.077 R	4	Lin Thru 0	0.0	1.806	0.00000	0.999985	
Mn 257.610	4	Lin Thru 0	0.0	1464	0.00000	0.999996	
Mo 202.031	4	Lin Thru 0	0.0	39.71	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	11.19	0.00000	0.999999	
Ni 231.604	4	Lin Thru 0	0.0	51.09	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	64.20	0.00000	0.999998	
Sb 206.836	4	Lin Thru 0	0.0	36.94	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	38.91	0.00000	0.999999	
Ti 334.940 R	4	Lin Thru 0	0.0	1142	0.00000	0.999991	
Tl 190.801	4	Lin Thru 0	0.0	21.10	0.00000	0.999995	
V 292.402	4	Lin Thru 0	0.0	106.0	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	127.2	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	29.99	0.00000	0.999996	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08
Seqnum : 88096990007
Cal : 88096990001
Standards: S8496

File : 030708r
Caldate : 07-MAR-2008

IDF : 1.0
Time : 07-MAR-2008 08:53

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	40.107	36.597	5000	4953	ug/L	-1	10	
Arsenic	A	26.622	25.656	5000	5027	ug/L	1	10	
Barium	A	383.50	382.34	5000	5037	ug/L	1	10	
Beryllium	A	3673.0	3638.3	500.0	499.5	ug/L	0	10	
Boron	A	171.96	174.95	5000	4968	ug/L	-1	10	
Cadmium	A	408.53	404.56	5000	5068	ug/L	1	10	
Chromium	A	72.818	70.617	5000	4895	ug/L	-2	10	
Cobalt	A	131.38	128.12	5000	4884	ug/L	-2	10	
Copper	A	450.33	432.90	5000	4917	ug/L	-2	10	
Lead	A	66.114	62.730	5000	4885	ug/L	-2	10	
Manganese	A	1494.1	1460.4	5000	4988	ug/L	0	10	
Molybdenum	A	39.595	39.197	5000	4935	ug/L	-1	10	
Nickel	A	50.821	50.071	5000	4900	ug/L	-2	10	
Selenium	A	38.468	38.532	5000	4952	ug/L	-1	10	
Silver	A	500.99	533.21	1000	1022	ug/L	2	10	
Thallium	A	20.729	20.307	5000	4813	ug/L	-4	10	
Tin	A	29.038	28.982	5000	4832	ug/L	-3	10	
Titanium	A	1173.2	1128.0	5000	4937	ug/L	-1	10	
Vanadium	A	109.76	104.52	5000	4930	ug/L	-1	10	
Zinc	A	150.29	124.49	5000	4895	ug/L	-2	10	
Aluminum	R	1.0687	1.1120	20000	20750	ug/L	4	10	
Calcium	R	17.700	15.469	20000	21190	ug/L	6	10	
Iron	R	6.4012	6.5706	20000	21100	ug/L	5	10	
Magnesium	R	1.8681	1.9304	20000	21380	ug/L	7	10	
Potassium	R	5.4812	5.9368	20000	19120	ug/L	-4	10	
Sodium	R	11.084	11.668	20000	20860	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2870321	2824698	-1.59

88096990007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88096990008 File : 030708r IDF : 1.0
Cal : 88096990001 Caldate : 07-MAR-2008 Time : 07-MAR-2008 08:57

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2870321	2850564	-0.69

88096990008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08
Seqnum : 88096990009
Cal : 88096990001
Standards: S8252

File : 030708r
Caldate : 07-MAR-2008

IDF : 1.0
Time : 07-MAR-2008 09:01

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	6.202	5.000	ug/L	!a+
Arsenic	A	[1.590]	5.000	ug/L	
Barium	A	[-1.815]	5.000	ug/L	!a-
Beryllium	A	[-0.09577]	2.000	ug/L	
Boron	A	[-2.802]	100.0	ug/L	
Cadmium	A	[-0.9357]	5.000	ug/L	!a-
Cobalt	A	[1.984]	5.000	ug/L	!a+
Lead	A	[2.444]	3.000	ug/L	!a+
Molybdenum	A	[-3.209]	5.000	ug/L	!a-
Selenium	A	[0.8088]	5.000	ug/L	
Silver	A	[-0.2310]	5.000	ug/L	
Thallium	A	[3.432]	5.000	ug/L	!a+
Tin	A	[-13.43]	40.00	ug/L	!a-
Zinc	A	[17.01]	20.00	ug/L	!a+
Potassium	R	[-423.2]	500.0	ug/L	!a-
Sodium	R	[81.49]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18940	ug/L	95
Copper	A	20000	19780	ug/L	99
Manganese	A	20000	18280	ug/L	91
Nickel	A	20000	18430	ug/L	92
Titanium	A	20000	19340	ug/L	97
Vanadium	A	20000	19190	ug/L	96
Aluminum	R	500000	506600	ug/L	101
Calcium	R	500000	480400	ug/L	96
Iron	R	200000	193600	ug/L	97
Magnesium	R	500000	498800	ug/L	100

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2870321	2654514	-7.52

!=warning +=high bias -=low bias a=ICSA

88096990009

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 88096990010
Cal : 88096990001
Standards: S8351

File : 030708r
Caldate : 07-MAR-2008

IDF : 1.0
Time : 07-MAR-2008 09:06

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	490.2	ug/L	-2	20	
Arsenic	A	500.0	518.0	ug/L	4	20	
Barium	A	500.0	503.6	ug/L	1	20	
Beryllium	A	500.0	507.9	ug/L	2	20	
Cadmium	A	1000	980.6	ug/L	-2	20	
Chromium	A	500.0	489.9	ug/L	-2	20	
Cobalt	A	500.0	465.8	ug/L	-7	20	
Copper	A	500.0	467.5	ug/L	-6	20	
Lead	A	1000	931.8	ug/L	-7	20	
Manganese	A	500.0	458.4	ug/L	-8	20	
Molybdenum	A	500.0	484.4	ug/L	-3	20	
Nickel	A	1000	942.8	ug/L	-6	20	
Selenium	A	500.0	484.5	ug/L	-3	20	
Silver	A	1000	1023	ug/L	2	20	
Thallium	A	500.0	424.4	ug/L	-15	20	
Titanium	A	20000	19220	ug/L	-4		
Vanadium	A	500.0	507.6	ug/L	2	20	
Zinc	A	1000	952.4	ug/L	-5	20	
Aluminum	R	500000	512000	ug/L	2		
Calcium	R	500000	492200	ug/L	-2		
Iron	R	200000	194600	ug/L	-3		
Magnesium	R	500000	498800	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2870321	2684712	-6.47

88096990010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 88096990017
Cal : 88096990001
Standards: S8497

File : 030708r
Caldate : 07-MAR-2008

IDF : 1.0
Time : 07-MAR-2008 09:38

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.107	36.040	5000	4878	ug/L	-2	10	
Arsenic	A	26.622	24.143	5000	4731	ug/L	-5	10	
Barium	A	383.50	391.33	5000	5156	ug/L	3	10	
Beryllium	A	3673.0	3562.9	500.0	489.1	ug/L	-2	10	
Boron	A	171.96	170.97	5000	4855	ug/L	-3	10	
Cadmium	A	408.53	391.07	5000	4899	ug/L	-2	10	
Chromium	A	72.818	71.388	5000	4948	ug/L	-1	10	
Cobalt	A	131.38	126.79	5000	4832	ug/L	-3	10	
Copper	A	450.33	445.51	5000	5060	ug/L	1	10	
Lead	A	66.114	61.252	5000	4770	ug/L	-5	10	
Manganese	A	1494.1	1481.6	5000	5060	ug/L	1	10	
Molybdenum	A	39.595	39.561	5000	4981	ug/L	0	10	
Nickel	A	50.821	49.323	5000	4827	ug/L	-3	10	
Selenium	A	38.468	35.420	5000	4552	ug/L	-9	10	
Silver	A	500.99	548.40	1000	1051	ug/L	5	10	
Thallium	A	20.729	20.129	5000	4771	ug/L	-5	10	
Tin	A	29.038	28.288	5000	4716	ug/L	-6	10	
Titanium	A	1173.2	1164.9	5000	5099	ug/L	2	10	
Vanadium	A	109.76	106.95	5000	5045	ug/L	1	10	
Zinc	A	150.29	117.43	5000	4617	ug/L	-8	10	
Aluminum	R	1.0687	1.1808	20000	22030	ug/L	10	10	
Calcium	R	17.700	15.771	20000	21600	ug/L	8	10	
Iron	R	6.4012	6.6807	20000	21450	ug/L	7	10	
Magnesium	R	1.8681	1.8581	20000	20580	ug/L	3	10	
Potassium	R	5.4812	6.1349	20000	19760	ug/L	-1	10	
Sodium	R	11.084	11.895	20000	21270	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2870321	2297794	-19.95

88096990017

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88096990018
Cal : 88096990001
File : 030708r
Caldate : 07-MAR-2008
IDF : 1.0
Time : 07-MAR-2008 09:42

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	[0.3320]	2.000	0.2339	ug/L	!ib
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2870321	2463054	-14.19

!=warning ib=instrument blank

88096990018

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 88096990026
Cal : 88096990001
Standards: S8351

File : 030708r
Caldate : 07-MAR-2008

IDF : 1.0
Time : 07-MAR-2008 10:10

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	484.6	ug/L	-3	20	
Arsenic	A	500.0	504.7	ug/L	1	20	
Barium	A	500.0	530.2	ug/L	6	20	
Beryllium	A	500.0	513.8	ug/L	3	20	
Cadmium	A	1000	977.2	ug/L	-2	20	
Chromium	A	500.0	502.4	ug/L	0	20	
Cobalt	A	500.0	462.7	ug/L	-7	20	
Copper	A	500.0	495.2	ug/L	-1	20	
Lead	A	1000	924.8	ug/L	-8	20	
Manganese	A	500.0	475.0	ug/L	-5	20	
Molybdenum	A	500.0	503.4	ug/L	1	20	
Nickel	A	1000	934.0	ug/L	-7	20	
Selenium	A	500.0	495.9	ug/L	-1	20	
Silver	A	1000	1075	ug/L	7	20	
Thallium	A	500.0	423.2	ug/L	-15	20	
Titanium	A	20000	20500	ug/L	3		
Vanadium	A	500.0	540.8	ug/L	8	20	
Zinc	A	1000	926.9	ug/L	-7	20	
Aluminum	R	500000	532800	ug/L	7		
Calcium	R	500000	495600	ug/L	-1		
Iron	R	200000	196400	ug/L	-2		
Magnesium	R	500000	478500	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2870321	2118510	-26.19

88096990026

00200

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 88096990027 File : 030708r Time : 07-MAR-2008 10:15
Cal : 88096990001 Caldate : 07-MAR-2008
Standards: S8497

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.107	36.122	5000	4889	ug/L	-2	10	
Arsenic	A	26.622	24.051	5000	4713	ug/L	-6	10	
Barium	A	383.50	392.78	5000	5175	ug/L	3	10	
Beryllium	A	3673.0	3581.4	500.0	491.7	ug/L	-2	10	
Boron	A	171.96	171.65	5000	4874	ug/L	-3	10	
Cadmium	A	408.53	395.01	5000	4948	ug/L	-1	10	
Chromium	A	72.818	71.659	5000	4967	ug/L	-1	10	
Cobalt	A	131.38	127.57	5000	4862	ug/L	-3	10	
Copper	A	450.33	448.20	5000	5090	ug/L	2	10	
Lead	A	66.114	61.634	5000	4800	ug/L	-4	10	
Manganese	A	1494.1	1490.8	5000	5092	ug/L	2	10	
Molybdenum	A	39.595	39.760	5000	5006	ug/L	0	10	
Nickel	A	50.821	49.519	5000	4846	ug/L	-3	10	
Selenium	A	38.468	35.436	5000	4554	ug/L	-9	10	
Silver	A	500.99	550.02	1000	1054	ug/L	5	10	
Thallium	A	20.729	19.854	5000	4706	ug/L	-6	10	
Tin	A	29.038	28.471	5000	4746	ug/L	-5	10	
Titanium	A	1173.2	1170.0	5000	5121	ug/L	2	10	
Vanadium	A	109.76	107.46	5000	5069	ug/L	1	10	
Zinc	A	150.29	118.35	5000	4653	ug/L	-7	10	
Aluminum	R	1.0687	1.1783	20000	21990	ug/L	10	10	
Calcium	R	17.700	15.820	20000	21670	ug/L	8	10	
Iron	R	6.4012	6.6929	20000	21490	ug/L	7	10	
Magnesium	R	1.8681	1.8688	20000	20700	ug/L	3	10	
Potassium	R	5.4812	6.1349	20000	19760	ug/L	-1	10	
Sodium	R	11.084	11.635	20000	20800	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2870321	2291119	-20.18

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88096990028 File : 030708r IDF : 1.0
Cal : 88096990001 Caldate : 07-MAR-2008 Time : 07-MAR-2008 10:19

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	[0.4373]	2.000	0.2339	ug/L	!ib
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2870321	2422698	-15.59

!=warning ib=instrument blank

88096990028

00202

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 48101689 Instrument: MET04 HydraAA HG Analyzer Begun: 10-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	135785	ICALBLK	STD01REP1				10-MAR-2008 14:49	1.0	1.0									
002	135785	ICAL	STD02REP1				10-MAR-2008 14:51	1.0	1.0									
003	135785	ICAL	STD03REP1				10-MAR-2008 14:53	1.0	1.0									
004	135785	ICAL	STD04REP1				10-MAR-2008 14:55	1.0	1.0									
005	135785	ICAL	STD05REP1				10-MAR-2008 14:58	1.0	1.0									
006	135785	ICAL	STD06REP1				10-MAR-2008 15:00	1.0	1.0									
007	135785	ICV					10-MAR-2008 15:02	1.0	1.0	2	5.000	48101689001	5.200		ug/L	104		
008	135785	ICB					10-MAR-2008 15:05	1.0	1.0			48101689001	ND	0.20	ug/L			
009	135785	BLANK	QC432102		135785	Soil	10-MAR-2008 15:07	1.0	100.0			48101689001	ND	0.020	mg/Kg			u
010	135785	BS	QC432103		135785	Soil	10-MAR-2008 15:09	1.0	100.0		0.5000	48101689001	0.5170	0.020	mg/Kg	103		u
011	135785	BSD	QC432104		135785	Soil	10-MAR-2008 15:11	1.0	100.0		0.5000	48101689001	0.5000	0.020	mg/Kg	100	3	u
012	135785	MSS	201726-001		135785	Soil	10-MAR-2008 15:14	1.0	81.97			48101689001	0.032	0.020	mg/Kg			u
013	135785	SER	QC432105	201726-001	135785	Soil	10-MAR-2008 15:16	5.0	81.97			48101689001	ND	0.082	mg/Kg	--		u
014	135785	MS	QC432106	201726-001	135785	Soil	10-MAR-2008 15:18	1.0	83.33		0.4167	48101689001	0.4767	0.020	mg/Kg	107		u
015	135785	MSD	QC432107	201726-001	135785	Soil	10-MAR-2008 15:20	1.0	89.29		0.4464	48101689001	0.6205	0.020	mg/Kg	132	20	u
016	135785	SAMPLE	201703-001		135785	Soil	10-MAR-2008 15:23	1.0	90.91			48101689001	0.26	0.020	mg/Kg			u
017	135785	SAMPLE	201703-002		135785	Soil	10-MAR-2008 15:25	1.0	89.29			48101689001	1.1 >LR	0.020	mg/Kg			>LR ca
018	135785	SAMPLE	201711-001		135785	Miscel	10-MAR-2008 15:27	1.0	98.04			48101689001	1.5 >LR	0.020	mg/Kg			>LR ca
019	135785	CCV					10-MAR-2008 15:29	1.0	1.0	3	2.500	48101689001	2.510		ug/L	100		
020	135785	CCB					10-MAR-2008 15:31	1.0	1.0			48101689001	ND	0.20	ug/L			
021	135785	SAMPLE	201724-003		135785	Soil	10-MAR-2008 15:34	1.0	87.72			48101689001	0.13	0.020	mg/Kg			u
022	135785	SAMPLE	201726-002		135785	Soil	10-MAR-2008 15:36	1.0	86.21			48101689001	0.035	0.020	mg/Kg			u
023	135785	SAMPLE	201726-003		135785	Soil	10-MAR-2008 15:38	1.0	94.34			48101689001	0.056	0.020	mg/Kg			u
024	135785	SAMPLE	201737-001		135785	Soil	10-MAR-2008 15:41	1.0	86.21			48101689001	0.86	0.020	mg/Kg			u
025	135785	SAMPLE	201743-001		135785	Soil	10-MAR-2008 15:43	1.0	81.97			48101689001	0.13	0.020	mg/Kg			u
026	135785	SAMPLE	201743-002		135785	Soil	10-MAR-2008 15:45	1.0	92.59			48101689001	1.6 >LR	0.020	mg/Kg			>LR b*
027	135785	SAMPLE	201743-003		135785	Soil	10-MAR-2008 15:47	1.0	92.59			48101689001	0.074	0.020	mg/Kg			u
028	135785	SAMPLE	201743-004		135785	Soil	10-MAR-2008 15:50	1.0	92.59			48101689001	0.098	0.020	mg/Kg			u
029	135785	SAMPLE	201743-005		135785	Soil	10-MAR-2008 15:52	1.0	89.29			48101689001	0.19	0.020	mg/Kg			u
030	135785	SAMPLE	201743-006		135785	Soil	10-MAR-2008 15:54	1.0	104.2			48101689001	0.23	0.021	mg/Kg			u
031	135785	CCV					10-MAR-2008 15:56	1.0	1.0	4	5.000	48101689001	5.100		ug/L	102		
032	135785	CCB					10-MAR-2008 15:58	1.0	1.0			48101689001	ND	0.20	ug/L			
033	135785	SAMPLE	201743-007		135785	Soil	10-MAR-2008 16:01	1.0	76.92			48101689001	0.88 >LR	0.020	mg/Kg			>LR b*
034	135785	SAMPLE	201743-008		135785	Soil	10-MAR-2008 16:03	1.0	98.04			48101689001	0.28	0.020	mg/Kg			u
035	135785	SAMPLE	201743-009		135785	Soil	10-MAR-2008 16:05	1.0	80.65			48101689001	0.16	0.020	mg/Kg			u
036	135785	SAMPLE	201743-010		135785	Soil	10-MAR-2008 16:08	1.0	84.75			48101689001	0.97 >LR	0.020	mg/Kg			>LR b*
037	135785	SAMPLE	201773-001		135785	Miscel	10-MAR-2008 16:10	1.0	98.04			48101689001	ND	0.020	mg/Kg			u
038	135785	SAMPLE	201773-002		135785	Miscel	10-MAR-2008 16:12	1.0	87.72			48101689001	ND	0.020	mg/Kg			u
039	135785	SAMPLE	201703-002		135785	Soil	10-MAR-2008 16:15	2.0	89.29			48101689001	1.1	0.036	mg/Kg			u
040	135785	SAMPLE	201711-001		135785	Miscel	10-MAR-2008 16:17	2.0	98.04			48101689001	1.6	0.039	mg/Kg			u
041	135785	SAMPLE	201743-002		135785	Soil	10-MAR-2008 16:19	2.0	92.59			48101689001	1.6	0.037	mg/Kg			u
042	135785	SAMPLE	201743-007		135785	Soil	10-MAR-2008 16:22	2.0	76.92			48101689001	0.88	0.031	mg/Kg			u
043	135785	CCV					10-MAR-2008 16:24	1.0	1.0	5	7.500	48101689001	7.490		ug/L	100		

Stds used: 1=S8642 2=S8644 3=S8645 4=S8646 5=S8647
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 3/10/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 48101689 Instrument: MET04 HydraAA HG Analyzer Begun: 10-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
044	135785	CCB					10-MAR-2008 16:26	1.0	1.0			48101689001	ND	0.20	ug/L			
045	135785	SAMPLE	201743-010		135785	Soil	10-MAR-2008 16:29	2.0	84.75			48101689001	0.95	0.034	mg/Kg			u
046	135785	CCV					10-MAR-2008 16:32	1.0	1.0	4	5.000	48101689001	4.960		ug/L	99		
047	135785	CCB					10-MAR-2008 16:35	1.0	1.0			48101689001	ND	0.20	ug/L			

Stds used: 1=S8642 2=S8644 3=S8645 4=S8646 5=S8647
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 3/10/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 48101689001
Units : ug/L

Date : 10-MAR-2008 14:49
X Axis : R

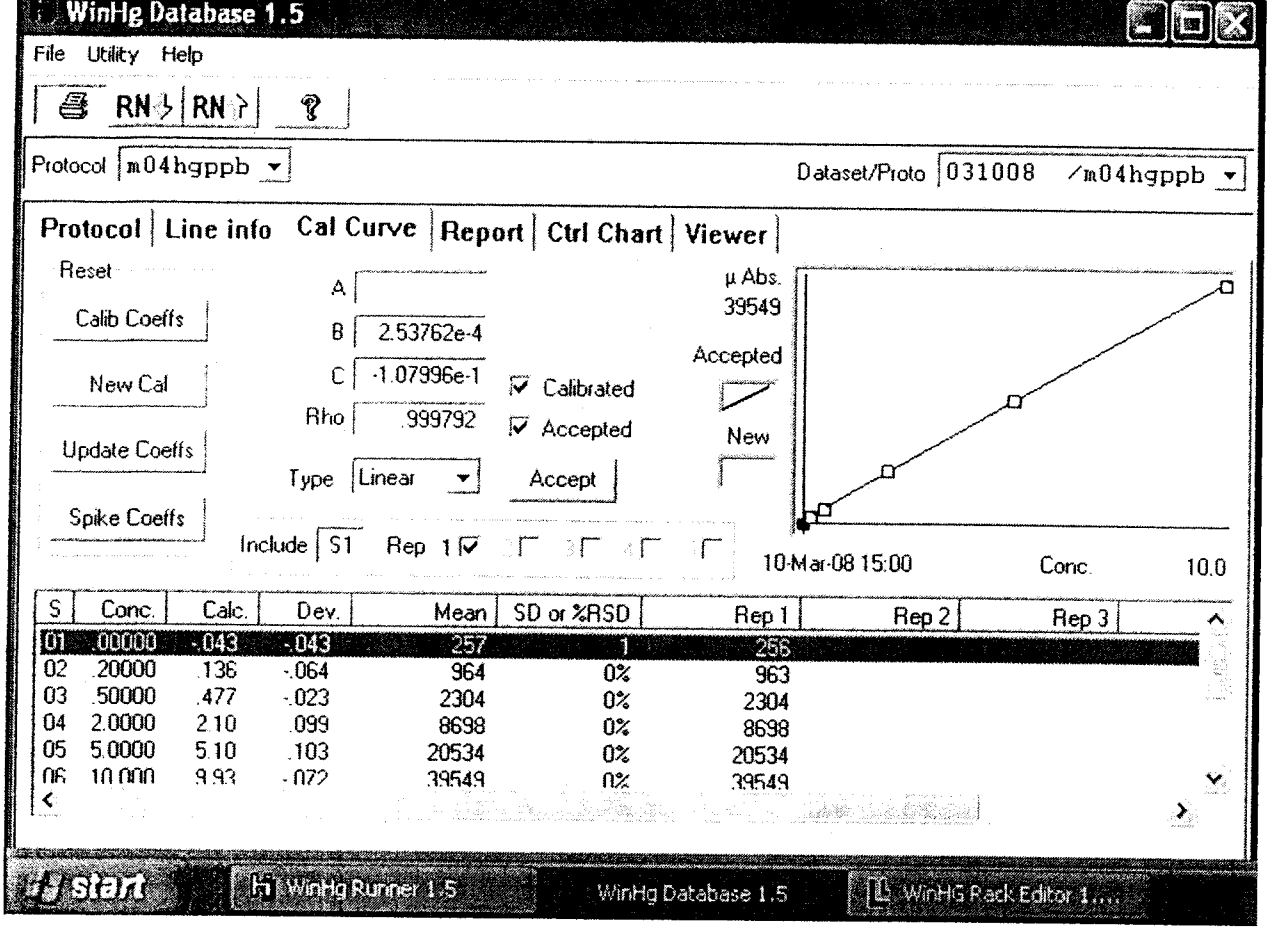
Reviewer : ---
Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	135785	48101689002	STD02REP1	10-MAR-2008 14:51	S8642 (500X)
L2	135785	48101689003	STD03REP1	10-MAR-2008 14:53	S8642 (200X)
L3	135785	48101689004	STD04REP1	10-MAR-2008 14:55	S8642 (50X)
L4	135785	48101689005	STD05REP1	10-MAR-2008 14:58	S8642 (20X)
L5	135785	48101689006	STD06REP1	10-MAR-2008 15:00	S8642 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	4815.0	4608.0	4349.0	4106.8	3954.9	LINR	-0.1080	2.54E-4		4366.7	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Mercury	0.200	-32	0.500	-5	2.000	5	5.000	2	10.00	-1

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression


WinHg Database 1.5
File Utility Help
RN RN
Protocol m04hgppb
Dataset/Proto 031008 /m04hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 2.53762e-4
C -1.07996e-1
Rho .999792
Calibrated
Accepted
Type Linear
Accept
Include S1 Rep 1
µ Abs.
39549
Accepted
New
10-Mar-08 15:00
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.043 -.043 257 1 256
02 .20000 .136 -.064 964 0% 963
03 .50000 .477 -.023 2304 0% 2304
04 2.0000 2.10 .099 8698 0% 8698
05 5.0000 5.10 .103 20534 0% 20534
06 10.000 9.93 -.072 39549 0% 39549
start
WinHg Runner 1.5
WinHg Database 1.5
WinHG Rack Editor 1....

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		14:49:31 10 Mar 08			HG
Hg	.000	ppb	256						
		Bkgd 1	19019919						
*** Standard: 2 Rep: 1				Seq: 2		14:51:47 10 Mar 08			HG
Hg	.200	ppb	963						
		Bkgd 1	19019659						
*** Standard: 3 Rep: 1				Seq: 3		14:53:51 10 Mar 08			HG
Hg	.500	ppb	2304						
		Bkgd 1	19018540						
*** Standard: 4 Rep: 1				Seq: 4		14:55:59 10 Mar 08			HG
Hg	2.00	ppb	8698						
		Bkgd 1	19017842						
*** Standard: 5 Rep: 1				Seq: 5		14:58:05 10 Mar 08			HG
Hg	5.00	ppb	20534						
		Bkgd 1	19016423						
*** Standard: 6 Rep: 1				Seq: 6		15:00:10 10 Mar 08			HG
Hg	10.0	ppb	39549						
		Bkgd 1	19012588						
*** Check Standard: 2			Ck2s8644	Seq: 7		15:02:16 10 Mar 08			HG
Line	Flag		Intensities						
Hg			20936						
		Bkgd 1	19008553						
*** Check Standard: 1			Ck1ICB	Seq: 8		15:05:01 10 Mar 08			HG
Line	Flag		Intensities						
Hg			156						
		Bkgd 1	19014909						
*** Sample ID: qc432102				Seq: 9		15:07:25 10 Mar 08			HG
			135785,1						
Hg	-.084	ppb	94						
		Bkgd 1	19017815						

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX303[7.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	201726-001	Batch#:	135681
Lab ID:	QC431687	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	mg/Kg	Analyzed:	03/07/08

Moisture: 16%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	0.2471	0.5952	1.158 J	1.365	NC	10
Arsenic	3.749	0.2976	4.031	1.365	8	10
Barium	82.42	0.2976	86.07	1.365	4	10
Beryllium	0.4109	0.1190	0.4346 J	0.5461	6	10
Cadmium	ND	0.2976	ND	1.365	NC	10
Chromium	63.69	0.2976	67.59	1.365	6	10
Cobalt	11.14	0.2976	11.74	1.365	5	10
Copper	12.59	0.2976	12.84	1.365	2	10
Lead	18.29	0.2504	19.05	1.252	4	10
Molybdenum	ND	0.2976	ND	1.365	NC	10
Nickel	39.31	0.2976	41.44	1.365	5	10
Selenium	1.759	0.5952	0.9094 J	1.365	NC	10
Silver	ND	0.2976	ND	1.365	NC	10
Thallium	ND	0.5952	ND	1.365	NC	10
Vanadium	53.58	0.2976	55.82	1.365	4	10
Zinc	43.34	1.190	45.46	5.461	5	10

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

27.0

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum : 88096354014
File : 030608br
IDF : 1.0
Lab ID : 201726-001
Matrix : Soil
Batch : 135681
Time : 07-MAR-2008 00:00
Cal : 88096354001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum : 88096354018
File : 030608br
IDF : 1.0
Lab ID : QC431688
Matrix : Soil
Batch : 135681
Time : 07-MAR-2008 00:11
Cal : 88096354001

MSS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF
PDS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	4.525	A	2000	1857	A	93	75-125	!<a+ !>ib u
Arsenic	68.65	A	1000	1013	A	94	75-125	!<a+ u
Barium	1509	A	2000	3353	A	92	75-125	!<a- u
Beryllium	7.525	A	50.00	56.29	A	98	75-125	u
Cadmium	ND	A	200.0	184.5	A	92	75-125	!<a- u
Calcium	50400	R	20000	68470	R	90	75-125	u
Chromium	1166	A	2000	2923	A	88	75-125	!>ib u
Cobalt	204.1	A	500.0	647.4	A	89	75-125	!<a+ u
Copper	230.5	A	250.0	462.1	A	93	75-125	u
Lead	335.0	A	2000	2096	A	88	75-125	u
Magnesium	72400	R	20000	89710	R	87	75-125	u
Manganese	6975	A	500.0	7170	A	39	75-125	: u
Molybdenum	ND	A	400.0	377.2	A	94	75-125	!<a- u
Nickel	719.8	A	500.0	1140	A	84	75-125	u
Potassium	12150	R	10000	21510	R	94	75-125	u
Silver	ND	A	200.0	145.0	A	**72***	75-125	!<a- u
Sodium	3904	R	20000	23380	R	97	75-125	u
Thallium	ND	A	1000	868.2	A	87	75-125	!<a- !<ib u
Vanadium	981.2	A	500.0	1408	A	85	75-125	u
Zinc	793.6	A	500.0	1218	A	85	75-125	u
Boron	30.46	A	1000	957.6	A	93	75-125	u
Tin	8.062	A	1000	919.8	A	91	75-125	!<a- u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3923233	3810093	-2.88

MISSING READINGS: **AL FE SE TI**

!=warning +=high bias -=low bias :=recovery not meaningful <=opening >=closing a=ICSA ib=instrument blank u=use

88096354018

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201726	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	1065EX303[7.0]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	135785
MSS Lab ID:	201726-001	Sampled:	03/06/08
Lab ID:	QC432105	Received:	03/06/08
Matrix:	Soil	Analyzed:	03/10/08
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.03835	0.02381	ND	0.09758	16%	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins Laboratories Sample Preparation Summary 06-MAR-2008 22:17

Batch Number	: 135681	Analysis	: N/A	Spike #1 ID	: S8385
Date Extracted	: 06-MAR-2008	Bgroup	: ICAP	Spike #2 ID	: S8386
Extracted by	: Chris Brock	Units	: g	Spike #3 ID	:
Prep Method	: 3050B	Clean-up	:	SOP Version	: 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
201665-002			LFR Levine Fricke	Soil	1.09	g	50	45.871560	1					CD, CR, NI, PB, ZN		
201703-001			Ninyo & Moore	Soil	1.12	g	50	44.642857	1					T26/ICP		
201703-002			Ninyo & Moore	Soil	1.07	g	50	46.728972	1					T26/ICP		
201710-001			ConocoPhillips Company	Miscell.	1.06	g	50	47.169811	1					V		
201710-002			ConocoPhillips Company	Miscell.	1.07	g	50	46.728972	1					V		
201711-001			ConocoPhillips Company	Miscell.	1.06	g	50	47.169811	1					T26/ICP		
201724-003			Stellar Environmental Solution	Soil	1.11	g	50	45.045045	1					T26/ICP		
201726-001			Mactec, Inc.	Soil	1.09	g	50	45.871560	1					T26/ICP		
201726-002			Mactec, Inc.	Soil	1.12	g	50	44.642857	1					T26/ICP		
201726-003			Mactec, Inc.	Soil	1.08	g	50	46.296296	1					T26/ICP		
201737-001			IMTT	Soil	1.1	g	50	45.454545	1					T26/ICP		
QC431682	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC431683	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC431684	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC431685	MS	of 201726-001		Soil	1.07	g	50	46.728972	1		.5	.5		ICAP		
QC431686	MSD	of 201726-001		Soil	1.04	g	50	48.076923	1		.5	.5		ICAP		
QC431687	SER	of 201726-001		Soil	1.09	g	50	45.871560	1					ICAP		
QC431688	PDS	of 201726-001		Soil	1.09	g	50	45.871560	1					ICAP		

Prep Chemist: Michael C Brock 3/6/08 Reviewed By: _____ Date: 3/7/08

Relinquished By: Michael C Brock 3/6/08 Received By: _____ Date: 3/7/08

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 135681
Date Digested: 3/6/05
Digested by: MCB III

Digestion Method
☒ EPA 3050b
☐ _____

BK 2624
Page 67

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	Ø	50	Y	
BS	↓	↓	↓	
BSD	↓			
MS-726-001 A	1.07			
MSD-726-001	1.04			
201726-001	1.09			
MCB III ↓ -002	1.12			
-003	1.08			
201665-002	1.09			
201703-001	1.12			
-002 ↓	1.07			
201710 -001 A,B,C	1.06			201710-001 IS A COMP OF 3 ARS 2 CRET.
-002 ↓	1.07			↓ -002 ↓ ↓ ↓
201711-001 A	1.06			
201724-003	1.11			
201737-001 ↓	1.10			

TIME = 8:45PM

	Reagent ID or LIMS #	Initials / Date
Class-A digestion tubes, lot#	4514-19426-261-216	MCB III 3/6/05
digestion temperature (90 - 95 degrees C)	95°C	
5 mL of spike solution was added to all spikes	S8385	
	S8386	
1:1 HNO3	E27027 J.T. BAKER	
concentrated HNO3	Y31024	
3mL 30% hydrogen peroxide	E31A08	
concentrated HCl	E40060	
☒ filtered thru' Whatman # 541	H11206690	
Relinquished to ICP group		

Michael C Buck III 3/6/05
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/6/05
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 10-MAR-2008 14:09

Batch Number : 135785
Date Extracted: 10-MAR-2008
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S8642
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
201703-001			Ninyo & Moore	Soil	.55	g	50	90.909091	1					T26/HG		
201703-002			Ninyo & Moore	Soil	.56	g	50	89.285714	1					T26/HG		
201711-001			ConocoPhillips Company	Miscell.	.51	g	50	98.039216	1					T26/HG		
201724-003			Stellar Environmental Solution	Soil	.57	g	50	87.719298	1					T26/HG		
201726-001			Mactec, Inc.	Soil	.61	g	50	81.967213	1					T26/HG		
201726-002			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		MSS
201726-003			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
201737-001			IMTT	Soil	.58	g	50	86.206897	1					T26/HG		
201743-001			CH2M Hill Constructors Inc.	Soil	.61	g	50	81.967213	1					T26/HG		
201743-002			CH2M Hill Constructors Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
201743-003			CH2M Hill Constructors Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
201743-004			CH2M Hill Constructors Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
201743-005			CH2M Hill Constructors Inc.	Soil	.56	g	50	89.285714	1					T26/HG		
201743-006			CH2M Hill Constructors Inc.	Soil	.48	g	50	104.166667	1					T26/HG		
201743-007			CH2M Hill Constructors Inc.	Soil	.65	g	50	76.923077	1					T26/HG		
201743-008			CH2M Hill Constructors Inc.	Soil	.51	g	50	98.039216	1					T26/HG		
201743-009			CH2M Hill Constructors Inc.	Soil	.62	g	50	80.645161	1					T26/HG		
201743-010			CH2M Hill Constructors Inc.	Soil	.59	g	50	84.745763	1					T26/HG		
201773-001			Owens Brockway	Miscell.	.51	g	50	98.039216	1					T26/HG		
201773-002			Owens Brockway	Miscell.	.57	g	50	87.719298	1					T26/HG		
QC432102	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC432103	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC432104	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC432105	SER	of 201726-001		Soil	.61	g	50	81.967213	1					HG		
QC432106	MS	of 201726-001		Soil	.6	g	50	83.333333	1		2.5			HG		
QC432107	MSD	of 201726-001		Soil	.56	g	50	89.285714	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 3/10-08

Relinquished By: _____ Received By: _____ Date: 3/10/08

SO213

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 135765

Date Digested: 3/10/08

Digestion Method

☒ EPA 7471A

☐ _____

BK 2680

Page 2

Sample #	container ID	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
201703-001	A	0.55	50.0	Y	
02		0.56			
201711-001		0.51			
201724-003		0.57			comped by MCB III
201726-001	A	0.61			MSS
02		0.58			
03		0.53			
201737-001		0.58			
201743-001	B	0.61			
02		0.54			
03		0.54			
04		0.54			
05		0.56			
06		0.48			
07		0.65			
08		0.51			
09		0.62			
10		0.51			
201773-001	A	0.51			
02		0.57			
MB QC132102		0.50			
BS 03					
BSD 04					
MS 06		0.60			
MSD 07		0.56			

	Reagent ID/ LIMS# / Time	Initials / Date
Digestion Tubes, Lot #	CV071202	
25 mL of spike standard was added to all spikes	58642	SXM 3/10/08
ICAL Source LIMS S#	↓	
ICV / CCV LIMS S#	58644/45/46/47	
Digestion Temperature (degrees C)	95°C	
Digestion Started at (time)	13:45	
Aqua Regia Acids (HNO3+ HCl)	AR031008	
5% $KMnO_4$	K030508	
NaCl.hydroxylamine hydrochloride	Hy021408	
Stannous Chloride	$SnCl_2$ 031008	
Digestion Completd at (time)	14:15	
☐ filtered thru' 0.45 um syringe filter (lot #)	R7CN29862	

3/10/08

Prep Chemist / Date

Continued from page _____

Continued on page _____

3/10/08

Reviewed by / Date

Curtis & Tompkins, Ltd.

Moisture Data

Percent Moisture Summary Report

Batch: 135730
Date: 03/07/08
Method: CLP SOW 390
Analyst: HO

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
201535-001	11.3703	17.9402	12.0046	10	90
201618-041	11.0723	19.5009	18.3209	86	14
201618-042	11.2501	19.0046	18.9177	99	1
201618-043	11.6278	19.5733	19.3935	98	2
201618-044	11.3167	18.9906	18.8908	99	1
201726-001	11.2836	19.4544	18.1838	84	16
201726-002	10.9190	18.5426	17.3811	85	15
201726-003	11.4784	18.9224	17.4142	80	20
QC431864	11.1482	18.8032	17.4519	82	18
of 201726-001			RPD:	2.5%	12.7%

3-7-08 BH 135730

Sample	SL	DISH#	Dish wt	Dish + Sample wt.	Final wt.	Comments
BIK	QC	~~CT6~~ CT26	11.~~8703~~	~~Ø~~	11.2824	Dish wt. 11.2821
201535-001	C	CT6	11.3783	~~11.2820~~	12.0046	Dish + Sample wt. 17.9402
201618-041	A	E8	11.0723	19.5009	18.3209	
.042		5RV	11.2501	19.0046	18.9177	
.043		LHR	11.6278	19.5733	19.3935	
.044		CT25	11.3167	18.9906	18.8908	
201726-001		A06	11.2836	19.4544	18.1838	
-002		12B	10.9190	18.5426	17.3811	
-003		B20	11.4784	18.9224	17.4142	
SDUP -001		HHB	11.1482	18.8032	~~18.4519~~ 17.4519	

#03.808

Time in 7:30p
at 9:30a
Room Temp 10/2

Continued on Page

Read and Understood By

Signed 3-7-08 Date

Signed 3.8.08 Date

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 8

Date	Initials	Temp (*C)
12-22-07	HO	105°C
12-23-07	HO	105°C
12-26-07	HO	105°C
12-27-07	VV	105°C
12-28-07	VV	103°C
12-29-07	HO	104°C
1-2-08	HO	104°C
1-3-08	VV	104°C
1-4-08	VV	103°C
1-5-08	HO	105°C
1-6-08	HO	105°C
1-9-08	VV	104°C
1-10-08	VV	103°C
1-11-08	VV	104°C
1-12-08	HO	105°C
1-13-08	HO	103°C
1-14-08	VV	103°C
1-15-08	VV	103°C
1-16-08	VV	105°C
1-17-08	VV	105°C
1-18-08	VV	105°C
1-19-08	HO	105°C
1-21-08	VV	105°C
1-22-08	VV	105°C
1-23-08	VV	104°C
1-24-08	VV	105.0°C
1-25-08	VV	103°C
1-27-08	HO	103°C
1-28-08	VV	104°C
1-29-08	VV	104°C
1-30-08	VV	104°C
1-31-08	VV	104°C
2-1-08	VV	103°C
2-2-08	HO	103°C
2-3-08	HO	103°C
2-4-08	VV	103°C
2-5-08	VV	103°C
2-6-08	VV	104°C
2-7-08	VV	103°C
2-8-08	VV	103°C
2-9-08	HO	103°C
2-10-08	HO	103°C

Date	Initials	Temp (*C)
2-11-08	VV	104°C
2-12-08	VV	104°C
2-13-08	VV	105°C
2-14-08	VV	105°C
2-15-08	VV	104°C
2-16-08	HO	103°C
2-19-08	VV	103°C
2-20-08	VV	104°C
2-21-08	HO	104°C
2-22-08	VV	104°C
2-24-08	HO	103°C
2-25-08	VV	104°C
2-26-08	VV	105°C
2-27-08	VV	105°C
2-28-08	VV	104°C
2-29-08	VV	103°C
~~3-1-08~~ HO	HO	103°C
3-1-08	HO	103°C
3-3-08	VV	103°C
3-4-08	VV	103°C
3-5-08	VV	104°C
3-6-08	VV	105°C
3-7-08	VV	104°C
3-8-08	HO	101°C

DATE	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	INIT	weight set
02-12-08	0-2000	0.5000	1.0000	5.0000	10.000	20.0000	50.0000	VV	10827
02-13-08	0.2000	0-5000	1-0000	5.0000	10.0000	20.0000	50.0000	VV	10827
02-14-08	0.2000	0-5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
02-15-08	0-2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-16-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	tb	10827
2-19-08	0-2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-20-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-21-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-22-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-24-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	tb	10827
2-25-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-26-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-27-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-28-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-29-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-1-08	0.2000	5.0001	1.0001	5.0001	10.0001	20.0001	50.0001	tb	10827
3.2.08	0.2000	5.0000	1.0000	5.0000	10.0000	20.0000	50.0000	tb	10827
3-3-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-4-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-5-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-6-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-7-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3.8.08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	tb	10827

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 135730
Date Started: 07-MAR-2008
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
201535-001		CH2M Hill Construc	Miscell.	MOISTURE	10-MAR-2008
201618-041		Arcadis G&M	Soil	MOISTURE	10-MAR-2008
201618-042		Arcadis G&M	Soil	MOISTURE	10-MAR-2008
201618-043		Arcadis G&M	Soil	MOISTURE	10-MAR-2008
201618-044		Arcadis G&M	Soil	MOISTURE	10-MAR-2008
201726-001		Mactec, Inc.	Soil	MOISTURE	10-MAR-2008
201726-002		Mactec, Inc.	Soil	MOISTURE	10-MAR-2008
201726-003		Mactec, Inc.	Soil	MOISTURE	10-MAR-2008
QC431864	SDUP of 201726-001		Soil	MOISTURE	

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 201748
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 Presidio Level : III

Sample ID	Lab ID
1065EX305[6.0]	201748-001
1065EX306[6.0]	201748-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 03/17/2008
Project Manager

Signature: _____ Date: 03/17/2008
Operations Manager

NELAP # 01107CA

00001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	201748
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065 Presidio
Request Date:	03/06/08
Samples Received:	03/06/08

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 03/06/08. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
5035 samples not analyzed within 48 hours were frozen. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 135798; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
5035 samples not analyzed within 48 hours were frozen. Low response was observed for Freon 12 in the ICV analyzed 02/28/08 19:47; this analyte was not detected at or above the RL in the associated samples. Low response was observed for Freon 12 in the CCV analyzed 03/07/08 11:46; this analyte met minimum response criteria. High responses were observed for acetone, n-butylbenzene, and 2-butanone; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b". Acetone and methylene chloride were detected between the MDL and the RL in the method blank for batch 135692; these analytes were not detected in samples at or above the RL. Methylene chloride was detected between the MDL and the RL in 1065EX305[6.0] (lab # 201748-001) and 1065EX306[6.0] (lab # 201748-002); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for barium and antimony in the MS/MSD for batch 135731; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. High RPD was observed for copper; the RPD was acceptable in the BS/BSD. High % differences were observed for many analytes in the serial dilution for batch 135731. Beryllium and cadmium were detected between the MDL and the RL in the method blank for batch 135731; these analytes were either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

34.0

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	201748
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065 Presidio
Request Date:	03/06/08
Samples Received:	03/06/08

Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

34.0

00003

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3834

201748

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Bldg 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Bldg 1065-Ex1
JOB NO.: 4084075115 02.4
SAMPLERS (SIGNATURE): Scott Bell
SAMPLERS INITIALS (PRINT): SRC
SAMPLING DATE: 3/6/08

	TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES including VOCs (8260B) & TEX & Naphthalene	TPHg	TPHd & TPHmo - silica gel	PAHs (8270 sim)	Title 22 metals	FOR LAB USE ONLY
1	945	X		SO	1065EX305[6.0]	55N61E-6.0		7	X	X	X	X	X	
2	1020	X		SO	1065EX306[6.0]	57N37E-6.0		7	X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	3/6/08 1220		3/6 1220			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Evaluation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 201748 Date Received 3/6/08 Number of coolers 1
Client MacTec Project Presidio Trust

Date Opened 3/6/08 By (print) K Wellbrock (sign) K Wellbrock
Date Logged in 3-7-08 By (print) F Nichols (sign) F Nichols

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? ..... YES NO (N/A)
3. Were custody papers dry and intact when received? ..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... (YES) NO N/A
Type of ice used: ☒ WET ☐ BLUE ☐ NONE Temp(°C) 6.0
☒ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... (YES) NO
If YES, what time were they transferred to freezer? 3/6 1400
9. Did all bottles arrive unbroken/unopened? ..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... YES NO N/A
15. Are bubbles absent in VOA samples? ..... (YES) NO N/A
16. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

_____

Curtis & Tompkins, Ltd.

TPH-Purgeable Data (EPA 8015/5035)

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	135798
Units:	mg/Kg	Sampled:	03/06/08
Diln Fac:	1.000	Received:	03/06/08

Field ID:	1065EX305[6.0]	Basis:	dry
Type:	SAMPLE	Moisture:	15%
Lab ID:	201748-001	Analyzed:	03/10/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.20	0.015

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	65-135
Bromofluorobenzene (FID)	88	65-135

Field ID:	1065EX306[6.0]	Basis:	dry
Type:	SAMPLE	Moisture:	20%
Lab ID:	201748-002	Analyzed:	03/11/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.12 J	0.22	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	100	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC432147	Analyzed:	03/10/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.027 J	0.20	0.015

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	65-135
Bromofluorobenzene (FID)	81	65-135

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC432148	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135798
Units:	mg/Kg	Analyzed:	03/10/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.006	100	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	65-135
Bromofluorobenzene (FID)	117	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	201617-008	Batch#:	135798
Matrix:	Soil	Sampled:	02/29/08
Units:	mg/Kg	Received:	02/29/08
Basis:	as received	Analyzed:	03/13/08

Type: MS Lab ID: QC432149

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.09115	10.42	9.142	87	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	65-135
Bromofluorobenzene (FID)	122	65-135

Type: MSD Lab ID: QC432150

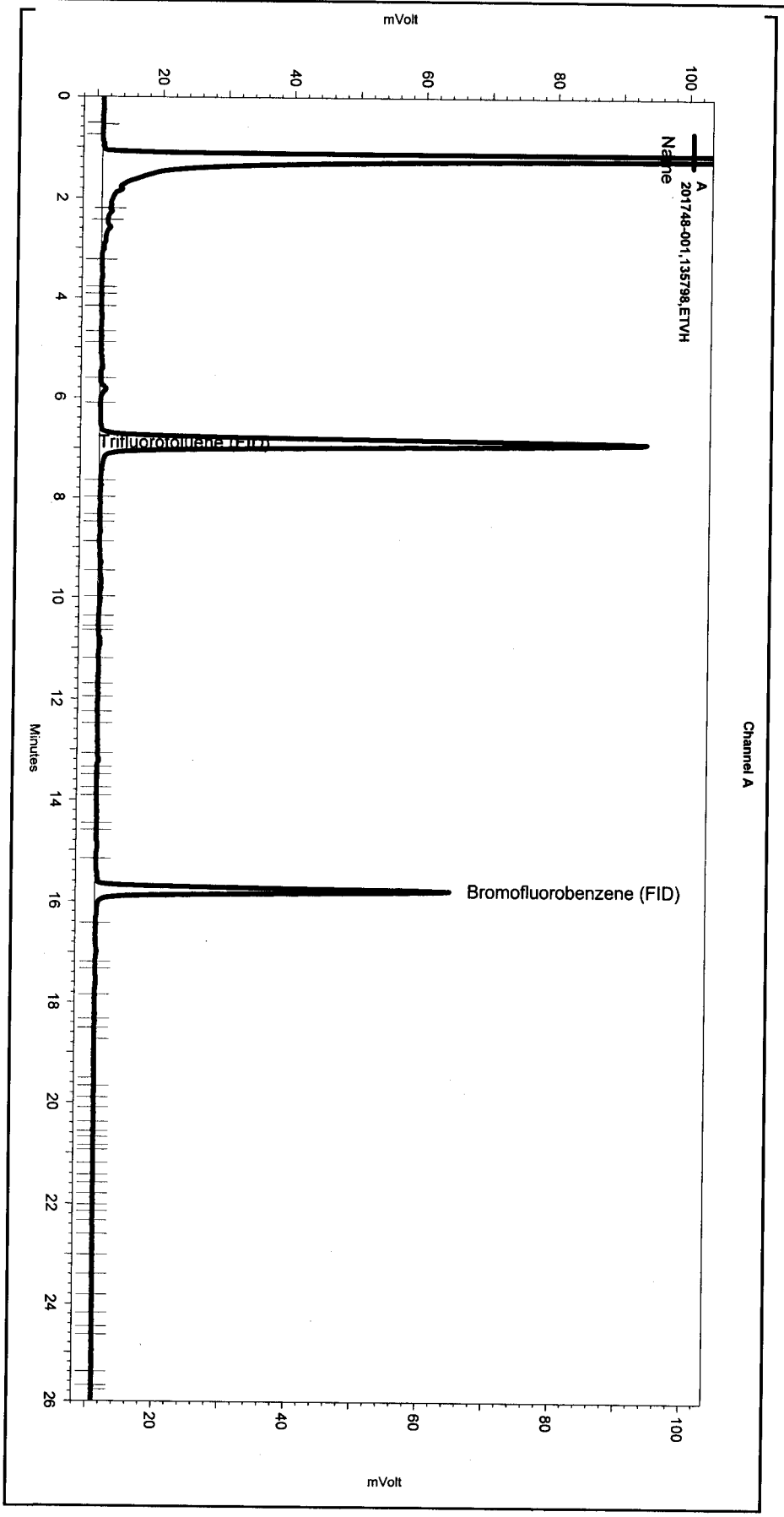
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.804	7.889	80	75-125	9	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	114	65-135

RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC19\Sequence\070.seq**
Sample Name: **201748-001,135798,ETVH**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC19\Data\070_008**
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe065.met

Software Version 3.1.7
Run Date: 3/10/2008 10:06:43 PM
Analysis Date: 3/11/2008 5:45:09 PM
Sample Amount: 5.9 Multiplier: 5.9
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

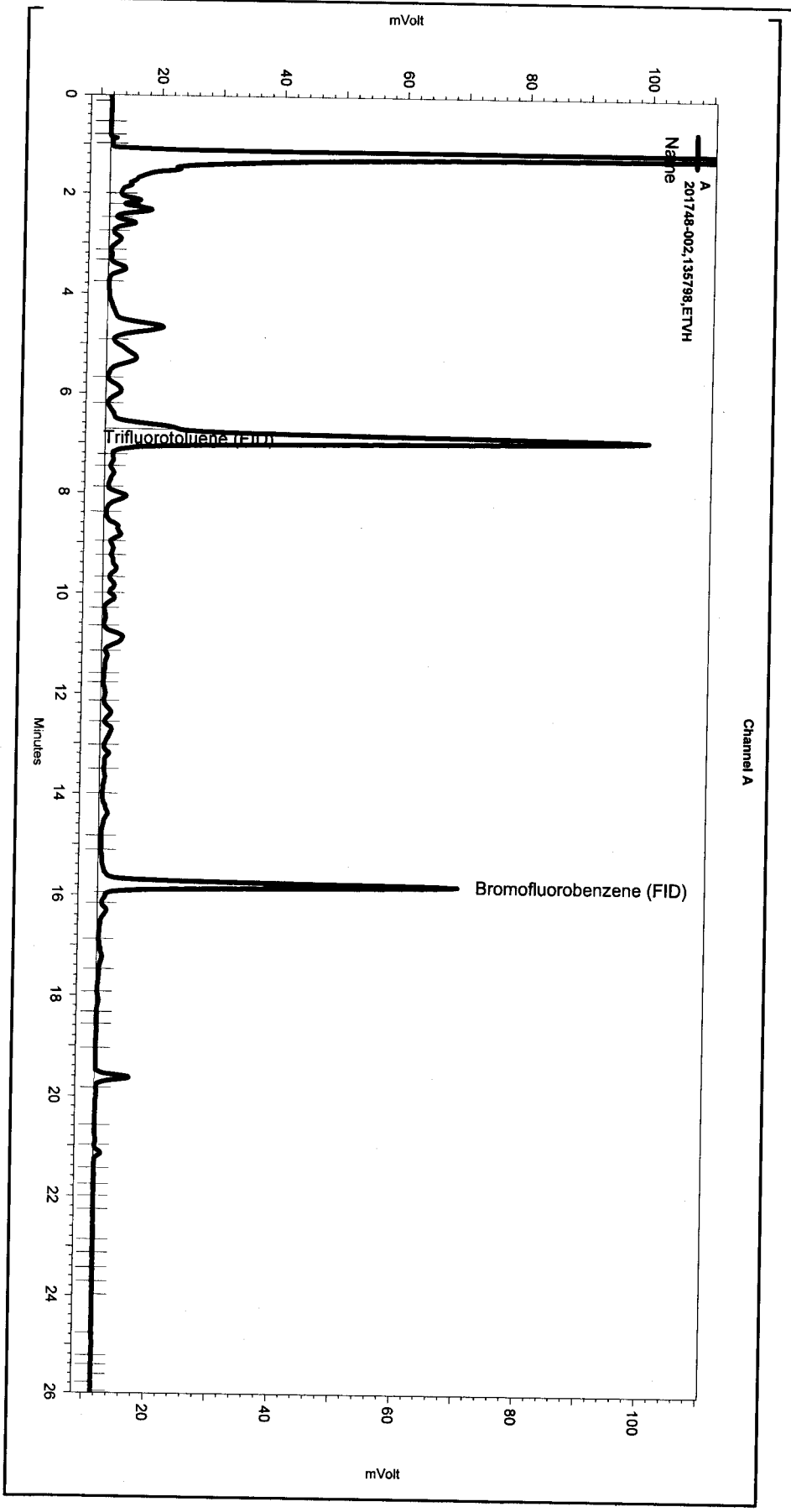
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\070_008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC19\Sequence\070.seq**
Sample Name: **201748-002,135798,ETVH**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC19\Data\070_009**
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe065.met

Software Version 3.1.7
Run Date: 3/11/2008 10:49:30 AM
Analysis Date: 3/11/2008 5:45:13 PM
Sample Amount: 5.6 Multiplier: 5.6
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

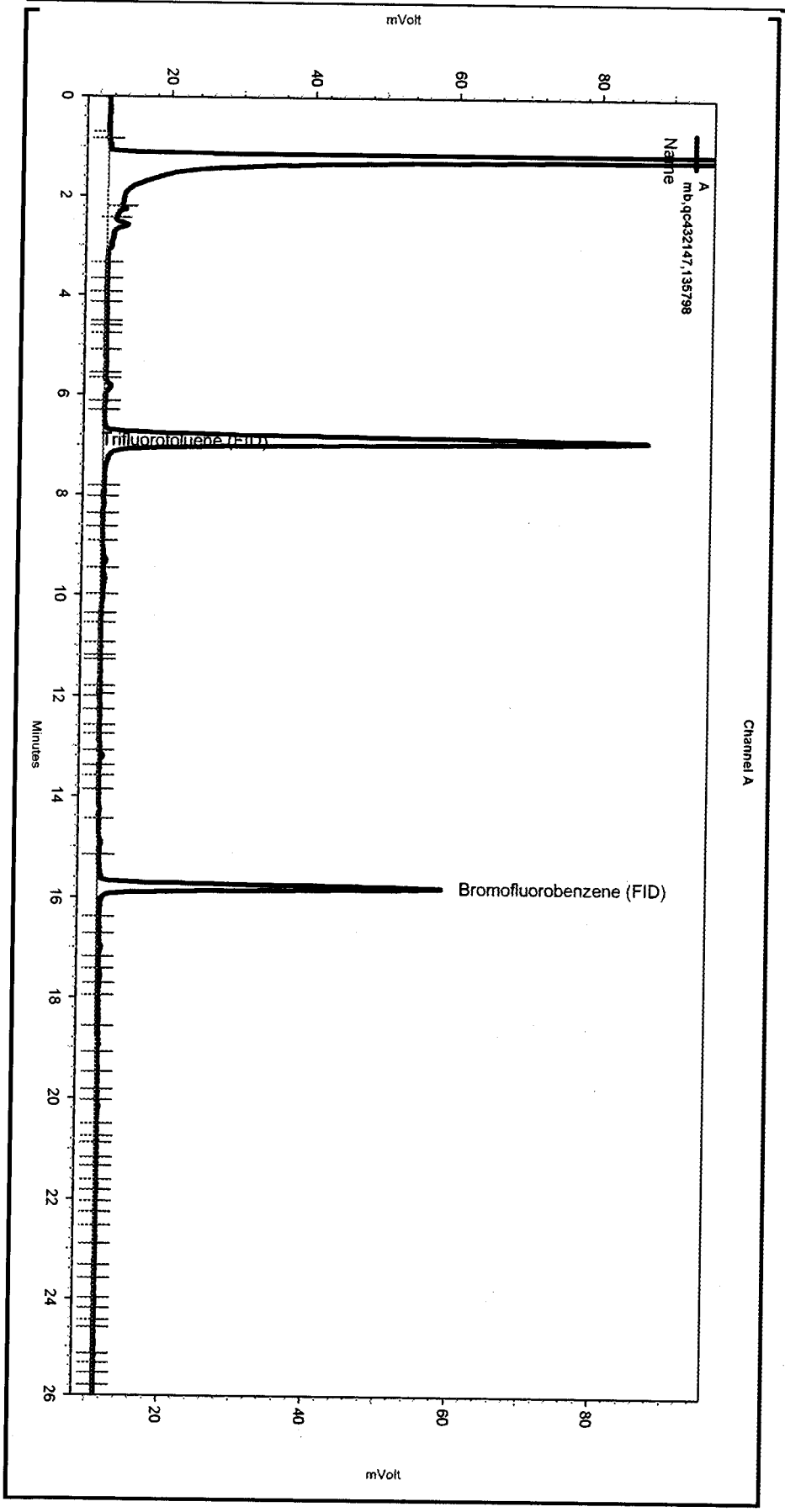
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\070_009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.721	0	0
Yes	Split Peak	15.953	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\070.seq
Sample Name: **mb,qc432147,135798**
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\070_005
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe065.met

Software Version 3.1.7
Run Date: 3/10/2008 2:57:54 PM
Analysis Date: 3/11/2008 12:13:08 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

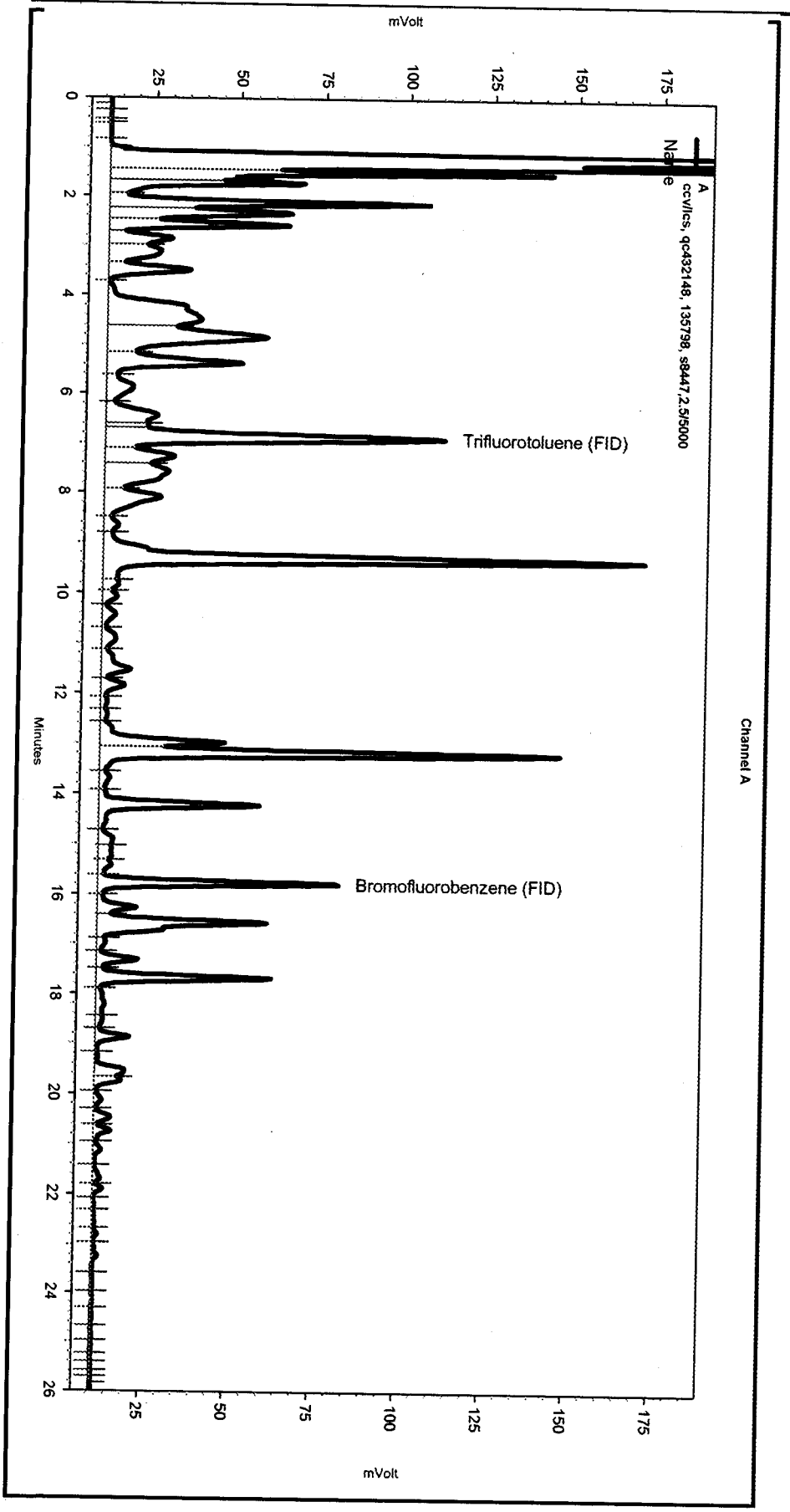
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\070_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC19\Sequence\070.seq**
Sample Name: **ccv/lcs, qc432148, 135798, s8447,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC19\Data\070_004**
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe065.met

Software Version 3.1.7
Run Date: 3/10/2008 1:28:43 PM
Analysis Date: 3/11/2008 3:07:33 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\070_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.689	0	0

Level III for 201748 GCVOA Soil

Generated on 03/13/08 13:30.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC19
Calnum : 348076830001
Units : ng

Name : GC19 MBTXE/SURR 053
Date : 23-FEB-2008 03:36
X Axis : R

Reviewer : LH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	053_028	348076830028	BTXE_1	23-FEB-2008 03:36	S7770 (1000X), S8275 (5000X)
L2	053_029	348076830029	MBTXE_2	23-FEB-2008 04:14	S7769 (1250X), S8275 (5000X)
L3	053_030	348076830030	MBTXE_3	23-FEB-2008 04:51	S7769 (500X), S8275 (5000X)
L4	053_031	348076830031	MBTXE_4	23-FEB-2008 05:29	S7769 (125X), S8275 (5000X)
L5	053_032	348076830032	MBTXE_5	23-FEB-2008 06:06	S7768 (1000X), S8275 (5000X)
L6	053_033	348076830033	MBTXE_6	23-FEB-2008 06:44	S7768 (500X), S8275 (5000X)
L7	053_034	348076830034	MBTXE_7	23-FEB-2008 07:21	S7768 (250X), S8275 (5000X)
L8	053_035	348076830035	MTBE_7	23-FEB-2008 07:59	S7767 (500X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	1996.9	2003.4	1893.6	1854.9	1881.6	1997.0	1865.0	1922.5	AVRG		5.19E-4		1926.9	3	0.995	20	
Bromofluorobenzene (FID)	A	889.56	908.38	822.03	822.56	889.57	957.03	945.06	858.88	AVRG		0.00113		886.63	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	4	450.0	4	450.0	-2	450.0	-4	450.0	-2	450.0	4	450.0	-3	450.0	0
Bromofluorobenzene (FID)	A	450.0	0	450.0	2	450.0	-7	450.0	-7	450.0	0	450.0	8	450.0	7	450.0	-3

PDM 02/23/08 : MTBE fails low on Channel C, this analyte will only be reported from Channel B

Analyst: PDM Date: 02/23/08 Reviewer: LH Date: 02/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

348076830001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCVOA Soil: EPA 8015B

Inst : GC19
Calnum : 348094534004
Units : ng

Name : tvh065
Date : 05-MAR-2008 18:42
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	065_006	348094534006	TVH 2	05-MAR-2008 18:42	S7783 (1000X), S8275 (5000X)
L2	065_007	348094534007	TVH 3	05-MAR-2008 19:20	S7782 (1000X), S8275 (5000X)
L3	065_008	348094534008	TVH 4	05-MAR-2008 19:57	S7781 (2000X), S8275 (5000X)
L4	065_009	348094534009	TVH 5	05-MAR-2008 20:35	S7781 (1000X), S8275 (5000X)
L5	065_015	348094534015	TVH 1	06-MAR-2008 10:40	S7784 (1000X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1581.3	1640.1	1661.5	1687.8	1735.6	AVRG		6.02E-4		1661.3	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	2500	-5	10000	-1	25000	0	50000	2	250.0	4

CP 03/06/08 : Use for C7-C12 ONLY

Analyst: CP Date: 03/06/08 Reviewer: RH Date: 03/07/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19
Calnum : 348094534004

Name : tvh065
Cal Date : 05-MAR-2008

ICV 348094534016 (065_016 06-MAR-2008) stds: S8283 (1000X), S8275 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1661.3	1635.6	10000	9845	ng	-2	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC432148 IDF : 1.0
Seqnum : 348101840004.5 File : 070_004 Time : 10-MAR-2008 13:28
Standards: S8447 (2000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1663.2	5000	5006	ng	0	15	u
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2253.2	504.0	589.4	ng	**17**	15	c+ u
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1033.2	504.0	587.3	ng	**17**	15	c+ u

PDM 03/11/08 [Trifluorotoluene (FID) A]: Passes control limits. [general version]

PDM 03/11/08 [Bromofluorobenzene (FID) A]: Passes control limits. [general version]

Analyst: PDM Date: 03/13/08 Reviewer: MMP Date: 03/13/08

+=high bias c=CCV u=use

348101840004.5

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 348101840013 File : 070_013 Time : 11-MAR-2008 16:52
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1587.0	10000	9553	ng	-4	15	
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2298.8	504.0	601.3	ng	**19**	15	c+
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1067.8	504.0	607.0	ng	**20**	15	c+

PDM 03/11/08 : PID surrogates are not applicable.

PDM 03/11/08 [Trifluorotoluene (FID) A]: Passes control limits.

PDM 03/11/08 [Bromofluorobenzene (FID) A]: Passes control limits.

PDM 03/11/08 : only Gas C7-C12 reported

Analyst: PDM Date: 03/11/08 Reviewer: LH Date: 03/11/08

+=high bias c=CCV

348101840013

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 348104696015 File : 072_015 Time : 13-MAR-2008 02:16
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1691.4	10000	10180	ng	2	15	
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2306.7	504.0	603.3	ng	**20**	15	c+
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1199.9	504.0	682.1	ng	**35**	15	c+

PDM 03/13/08 : PID surrogates are not applicable.

PDM 03/13/08 [Trifluorotoluene (FID) A]: Passes control limits.

PDM 03/13/08 [Bromofluorobenzene (FID) A]: Passes control limits.

PDM 03/13/08 : only Gas C7-C12 reported

Analyst: PDM Date: 03/13/08 Reviewer: MMP Date: 03/13/08

+=high bias c=CCV

348104696015

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 348104696025 File : 072_025 Time : 13-MAR-2008 08:31
Standards: S8447 (666.7X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1673.3	15000	15110	ng	1	15	
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2461.9	504.0	643.9	ng	**28**	15	c+
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1187.7	504.0	675.2	ng	**34**	15	c+

PDM 03/13/08 : PID surrogates are not applicable.

PDM 03/13/08 [Trifluorotoluene (FID) A]: Passes control limits.

PDM 03/13/08 [Bromofluorobenzene (FID) A]: Passes control limits.

PDM 03/13/08 : only Gas C7-C12 reported

Analyst: PDM Date: 03/13/08 Reviewer: MMP Date: 03/13/08

+=high bias c=CCV

348104696025

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348076830

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 02/22/08 08:30
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	053_001	X	CMARK			02/22/08 08:30	1.0	1 2	
002	053_002	CCV/LCS	QC429338	Soil	135092	02/22/08 09:07	1.0	3 2	2:BZME=5000
003	053_003	X	IB			02/22/08 09:59	1.0	2	
004	053_004	X	IB			02/22/08 10:48	1.0	2	
005	053_005	BLANK	QC429337	Soil	135092	02/22/08 11:26	1.0	2	
006	053_006	MSS	201306-002	Soil	135092	02/22/08 13:25	1.0	2	
007	053_007	SAMPLE	201331-001	Soil	135092	02/22/08 14:23	1.0	2	
008	053_008	SAMPLE	201331-002	Soil	135092	02/22/08 15:01	1.0	2	
009	053_009	SAMPLE	201331-003	Soil	135092	02/22/08 15:43	1.0	2	
010	053_010	SAMPLE	201331-004	Soil	135092	02/22/08 16:21	1.0	2	
011	053_011	MS	QC429339	Soil	135092	02/22/08 16:59	1.0	3 2	3:BZME=9000
012	053_012	MSD	QC429340	Soil	135092	02/22/08 17:36	1.0	3 2	3:BZME=8700
013	053_013	CCV	TVH			02/22/08 18:14	1.0	3 2	4:BZME=9900
014	053_014	X	CCV			02/22/08 18:51	1.0	3 2	
015	053_015	X	CMARK			02/22/08 19:29	1.0	1 2	
016	053_016	SAMPLE	201331-005	Soil	135092	02/22/08 20:06	1.0	2	
017	053_017	SAMPLE	201331-006	Soil	135092	02/22/08 20:44	1.0	2	
018	053_018	SAMPLE	201331-007	Soil	135092	02/22/08 21:21	1.0	2	
019	053_019	SAMPLE	201331-008	Soil	135092	02/22/08 21:59	1.0	2	
020	053_020	SAMPLE	201331-009	Soil	135092	02/22/08 22:36	1.0	2	
021	053_021	SAMPLE	201331-010	Soil	135092	02/22/08 23:14	1.0	2	
022	053_022	CCV	TVH			02/22/08 23:51	1.0	3 2	5:BZME=14000
023	053_023	X	CCV			02/23/08 00:29	1.0	3 2	
024	053_024	X	CMARK			02/23/08 01:06	1.0	1 2	
025	053_025	X	IB			02/23/08 01:44	1.0	2	
026	053_026	X	IB			02/23/08 02:21	1.0	2	
027	053_027	X	IB			02/23/08 02:59	1.0	2	
028	053_028	ICAL	BTXE_1			02/23/08 03:36	1.0	4 2	
029	053_029	ICAL	MBTXE_2			02/23/08 04:14	1.0	5 2	
030	053_030	ICAL	MBTXE_3			02/23/08 04:51	1.0	5 2	
031	053_031	ICAL	MBTXE_4			02/23/08 05:29	1.0	5 2	
032	053_032	ICAL	MBTXE_5			02/23/08 06:06	1.0	6 2	
033	053_033	ICAL	MBTXE_6			02/23/08 06:44	1.0	6 2	
034	053_034	ICAL	MBTXE_7			02/23/08 07:21	1.0	6 2	
035	053_035	ICAL	MTBE_7			02/23/08 07:59	1.0	7 2	
036	053_036	X	IB			02/23/08 08:36	1.0	2	
037	053_037	ICV	MBTXE			02/23/08 09:14	1.0	8 2	
038	053_038	X	MBTXE			02/23/08 10:46	1.0	8 2	
039	053_039	X	MBTXE			02/23/08 14:21	1.0	9 2	

Analyst: PDM Date: 02/23/08 Reviewer: LH Date: 02/25/08

Standards used: 1=S8201 2=S8275 3=S8391 4=S7770 5=S7769 6=S7768 7=S7767 8=S7868 9=S8465

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348094534

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 03/05/08 15:34
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	065_001	X	IB			03/05/08 15:34	1.0	1	
002	065_002	CMARKER				03/05/08 16:12	1.0	2 1	
003	065_003	IB	IB			03/05/08 16:50	1.0	1	
004	065_004	X	IB			03/05/08 17:27	1.0	1	
005	065_005	X	TVH 1			03/05/08 18:05	1.0	3 1	
006	065_006	ICAL	TVH 2			03/05/08 18:42	1.0	4 1	
007	065_007	ICAL	TVH 3			03/05/08 19:20	1.0	5 1	
008	065_008	ICAL	TVH 4			03/05/08 19:57	1.0	6 1	
009	065_009	ICAL	TVH 5			03/05/08 20:35	1.0	6 1	
010	065_010	X	IB			03/05/08 21:12	1.0	1	
011	065_011	X	TVH			03/05/08 21:50	1.0	7 1	
012	065_012	X	ICV			03/05/08 22:27	1.0	7 1	
013	065_013	X	TVH 1			03/06/08 08:27	1.0	3 1	
014	065_014	X	TVH			03/06/08 09:04	1.0	7 1	
015	065_015	ICAL	TVH 1			03/06/08 10:40	1.0	3 1	
016	065_016	ICV	TVH			03/06/08 11:18	1.0	7 1	

Analyst: PDM Date: 03/06/08 Reviewer: MMP Date: 03/06/08

Standards used: 1=S8275 2=S8201 3=S7784 4=S7783 5=S7782 6=S7781 7=S8283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348101840

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 03/10/08 10:48
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	070_001	X	IB			03/10/08 10:48	1.0	1
002	070_002	X	CMARK			03/10/08 12:13	1.0	2 1
003	070_003	X	CCV			03/10/08 12:51	1.0	3 1
004	070_004	CCV/LCS	QC432148	Soil	135798	03/10/08 13:28	1.0	4 1
005	070_005	BLANK	QC432147	Soil	135798	03/10/08 14:57	1.0	1
006	070_006	SAMPLE	201726-003	Soil	135798	03/10/08 17:20	1.0	1
007	070_007	MSS	201617-008	Soil	135798	03/10/08 20:53	1.0	1
008	070_008	SAMPLE	201748-001	Soil	135798	03/10/08 22:06	1.0	1
009	070_009	SAMPLE	201748-002	Soil	135798	03/11/08 10:49	1.0	1
012	070_012	SAMPLE	201743-003	Soil	135798	03/11/08 15:36	1.0	1
013	070_013	CCV	TVH			03/11/08 16:52	1.0	4 1

MRC 03/12/08 : This sequence did not finish. Instrument errors prevented running the 201660 job and the ms/msd in the subsequent bracket. There are no data files

Analyst: PDM Date: 03/11/08 Reviewer: MRC Date: 03/12/08

Standards used: 1=S8641 2=S8201 3=S8449 4=S8447

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348104696

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 03/12/08 16:56
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	072_001	X	IB			03/12/08 16:56	1.0	1
002	072_002	X	CMARK			03/12/08 17:48	1.0	2 1
003	072_003	X	CCV			03/12/08 18:44	1.0	3 1
004	072_004	X	CCV			03/12/08 19:22	1.0	4 1
005	072_005	CCV/LCS	QC432553	Soil	135902	03/12/08 20:00	1.0	4 1
006	072_006	X	IB			03/12/08 20:38	1.0	1
007	072_007	BLANK	QC432552	Soil	135902	03/12/08 21:15	1.0	1
008	072_008	MSS	201765-001	Soil	135902	03/12/08 21:53	1.0	1
009	072_009	SAMPLE	201859-001	Soil	135902	03/12/08 22:31	1.0	1
010	072_010	SAMPLE	201860-001	Soil	135902	03/12/08 23:08	1.0	1
011	072_011	SAMPLE	201861-001	Soil	135902	03/12/08 23:46	1.0	1
012	072_012	MS	QC432554	Soil	135902	03/13/08 00:23	1.0	4 1
013	072_013	MSD	QC432555	Soil	135902	03/13/08 01:01	1.0	4 1
014	072_014	X	CCV			03/13/08 01:38	1.0	4 1
015	072_015	CCV	TVH			03/13/08 02:16	1.0	4 1
016	072_016	X	CMARK			03/13/08 02:53	1.0	2 1
017	072_017	SAMPLE	201814-001	Soil	135902	03/13/08 03:31	1.0	1
018	072_018	SAMPLE	201814-002	Soil	135902	03/13/08 04:08	1.0	1
019	072_019	SAMPLE	201814-003	Soil	135902	03/13/08 04:46	1.0	1
020	072_020	SAMPLE	201814-004	Soil	135902	03/13/08 05:23	1.0	1
021	072_021	SAMPLE	201814-005	Soil	135902	03/13/08 06:01	1.0	1
022	072_022	SAMPLE	201814-006	Soil	135902	03/13/08 06:38	1.0	1
023	072_023	MS	QC432149	Soil	135798	03/13/08 07:16	1.0	4 1
024	072_024	MSD	QC432150	Soil	135798	03/13/08 07:53	1.0	4 1
025	072_025	CCV	TVH			03/13/08 08:31	1.0	4 1
026	072_026	SAMPLE	201814-006	Soil	135902	03/13/08 09:18	1.0	1
027	072_027	CCV	TVH			03/13/08 10:04	1.0	4 1

Analyst: PDM Date: 03/13/08 Reviewer: _____ Date: _____

Standards used: 1=S8641 2=S8201 3=S8449 4=S8447

Sample/Core/Jar ID	Weight (g)	H_2SO_4 (?)	Comp (?)	Comments
201743 -001 B	4.98	NO	NO	PdM 3/7/08
-002	3.55			
-003	5.58			
-004	3.75			
-005	4.93			
-006	4.92			
-007	5.61			
-008	5.05			
-009	5.08	5.52		
-010	PdM 3/7/08 5.52	4.18		
201726 -001 G	4.48	6.44		
MS F		7.18		
MSD H		6.22		
-002 C		5.59		
-003 C		5.80		
201629 -032A	1.1	NO	NO	PdM 3/8/08
201743 -003 D	5.8			
201726 -003 F	6.4			
MS 201726-001 I	6.3			
MSD J	6.7			
201535 -001 C	1.1			
201743 -008 C	3.9			
201743 -008 D	4.61			
201726 -003 G	5.80	No	No	MRC 3-10-08
201660 -001 A	4.94	No	No	MRC 3-10-08
002	5.21			
003	5.71			
004	5.86			
005	5.29			
006	5.65			
201748 -001 B	9.9	No	No	MRC 3-10-08
002 B	9.6			
201617-008	0.9			
~~201717 MRC 3-10-08~~				
MS 201617-008 A	0.9			
MSD A	1.0			

Continued on Page

PdM — Signed
3/7/08 — Date
Read and Understood By
Signed
Date

34

PROJECT MeOH Extract log

Notebook No. BK2246

Continued From Page —

PR

Date/Analyst	Sample ID/Core ID/Jar	Weight (g)	MeOH (ml)	Comments
PdM 3/1/08	201583-004 B	4.67	4.70	BJCT981 alias of 201488-011
	-005	5.40	5.40	PdM 4/01/08 -014
	-009	5.58	5.40	-016
	-010	5.26	5.30	-017
	MeOH MB	—	5.0	BJCT981
	201310-001 A	5.04	↓	↓
	200869-012 A	4.97	↓	↓
CP 3/2/08	MeOH MB	—	5.0	BJCT981
	201583-003 C	4.88	4.90	↓ alias of 201488-010
PdM 3/4/08	MeOH MB	—	5.0	BJCT981
	201381-009 D	4.33	4.30	↓
	201533-007 ↓	3.35	3.40	↓
MRC 3-7-08	201629-007 A	5.04	5.0	BJ CT981
	014	4.99	5.0	↓
	019	5.03	5.0	↓
	MeOH MB	—	5.0	↓
CP 3/7/08	MeOH MB	—	5.0	BJCT981
	201711-001 A	4.56	4.6	↓
PdM 3/8/08	201629-036 A	5.0	5.0	BJCT981
	MeOH MB	—	↓	↓
	201535-001 C	5.0	5.0	↓
	201726-001 K	6.7	6.70	↓
PdM 3/12/08	201660-001 C	6.68	6.70	BJCT981 PdM 3/12/08 BJCV200
	MeOH MB	—	5.0	↓ ↓

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
PdM	3/1/08		

Project TVH/BTXE Soil Weight Log Book Bk 2583

Continued from Page

Core / Sample / Jar ID	Weight (g)	Carb?	NaHSO4?	Comments
201726-001 N MS	6.3	No	No	MRC 3-10-08
MSD	6.6			
201834-001 B	1.01	No	No	MRC 3-10-08
MS	0.97			
MSD	0.96			
201617-008 A MS	0.91	No	No	MRC 3-11-08
MSD	0.98			
201660-001 B	5.82	NO	NO	PdM 3/12/08
-004 B	6.17			
201743-003 E	4.11	No	No	Visual checks to confirm - MRC 3-12-08
201814-001 B	6.49	NO	NO	JDG 3/12/08
002	3.92			
003	5.14			
004	5.20			
005	4.13			
006 C	5.47			
201859-001	5.72			Alias 201814-007B
201860-001	5.94			Alias 201814-008B
201861-001	4.89			Alias 201814-009B
MS 201617-008 A	0.96	No	No	MRC 3-12-08
MSD	1.02			
201765-001 A	0.96	No	No	MRC 3-12-08
MS	1.00			
MSD	0.98			

Continued on Page

PdM — Signed

3/12/08 — Date

Read and Understood By

Signed

Date

BLANK GC19 070_005 QC432147 was changed after signing.
Generated on 03/13/08 13:35.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC19 Name : GC19 MBTXE/SURR 053 Reviewer : LH
Calnum : 348076830001 Date : 23-FEB-2008 03:36
Units : ng X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	053_028	348076830028	BTXE_1	23-FEB-2008 03:36	S7770 (1000X), S8275 (5000X)
L2	053_029	348076830029	MBTXE_2	23-FEB-2008 04:14	S7769 (1250X), S8275 (5000X)
L3	053_030	348076830030	MBTXE_3	23-FEB-2008 04:51	S7769 (500X), S8275 (5000X)
L4	053_031	348076830031	MBTXE_4	23-FEB-2008 05:29	S7769 (125X), S8275 (5000X)
L5	053_032	348076830032	MBTXE_5	23-FEB-2008 06:06	S7768 (1000X), S8275 (5000X)
L6	053_033	348076830033	MBTXE_6	23-FEB-2008 06:44	S7768 (500X), S8275 (5000X)
L7	053_034	348076830034	MBTXE_7	23-FEB-2008 07:21	S7768 (250X), S8275 (5000X)
L8	053_035	348076830035	MTBE_7	23-FEB-2008 07:59	S7767 (500X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	1996.9	2003.4	1893.6	1854.9	1881.6	1997.0	1865.0	1922.5	AVRG		5.19E-4		1926.9	3	0.995	20	
Bromofluorobenzene (FID)	A	889.56	908.38	822.03	822.56	889.57	957.03	945.06	858.88	AVRG		0.00113		886.63	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	4	450.0	4	450.0	-2	450.0	-4	450.0	-2	450.0	4	450.0	-3	450.0	0
Bromofluorobenzene (FID)	A	450.0	0	450.0	2	450.0	-7	450.0	-7	450.0	0	450.0	8	450.0	7	450.0	-3

PDM 02/23/08 : MTBE fails low on Channel C, this analyte will only be reported from Channel B

Analyst: PDM Date: 02/23/08 Reviewer: LH Date: 02/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCVOA Soil: EPA 8015B

Inst : GC19
Calnum : 348094534004
Units : ng

Name : tvh065
Date : 05-MAR-2008 18:42
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	065_006	348094534006	TVH 2	05-MAR-2008 18:42	S7783 (1000X), S8275 (5000X)
L2	065_007	348094534007	TVH 3	05-MAR-2008 19:20	S7782 (1000X), S8275 (5000X)
L3	065_008	348094534008	TVH 4	05-MAR-2008 19:57	S7781 (2000X), S8275 (5000X)
L4	065_009	348094534009	TVH 5	05-MAR-2008 20:35	S7781 (1000X), S8275 (5000X)
L5	065_015	348094534015	TVH 1	06-MAR-2008 10:40	S7784 (1000X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1581.3	1640.1	1661.5	1687.8	1735.6	AVRG		6.02E-4		1661.3	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	2500	-5	10000	-1	25000	0	50000	2	250.0	4

CP 03/06/08 : Use for C7-C12 ONLY

9502

Analyst: CP Date: 03/06/08 Reviewer: RH Date: 03/07/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19 Name : tvh065
Calnum : 348094534004 Cal Date : 05-MAR-2008

ICV 348094534016 (065_016 06-MAR-2008) stds: S8283 (1000X), S8275 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1661.3	1635.6	10000	9845	ng	-2	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC432148 IDF : 1.0
Seqnum : 348101840004.5 File : 070_004 Time : 10-MAR-2008 13:28
Standards: S8447 (2000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1663.2	5000	5006	ng	0	15	u
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2253.2	504.0	589.4	ng	**17**	15	c+ u
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1033.2	504.0	587.3	ng	**17**	15	c+ u

PDM 03/11/08 [Trifluorotoluene (FID) A]: Passes control limits. [general version]

PDM 03/11/08 [Bromofluorobenzene (FID) A]: Passes control limits. [general version]

Analyst: PDM Date: 03/13/08 Reviewer: MMP Date: 03/13/08

+=high bias c=CCV u=use

348101840004.5

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 348101840013 File : 070_013 Time : 11-MAR-2008 16:52
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1587.0	10000	9553	ng	-4	15	
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2298.8	504.0	601.3	ng	**19**	15	c+
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1067.8	504.0	607.0	ng	**20**	15	c+

PDM 03/11/08 : PID surrogates are not applicable.

PDM 03/11/08 [Trifluorotoluene (FID) A]: Passes control limits.

PDM 03/11/08 [Bromofluorobenzene (FID) A]: Passes control limits.

PDM 03/11/08 : only Gas C7-C12 reported

Analyst: PDM Date: 03/11/08 Reviewer: LH Date: 03/11/08

+=high bias c=CCV

348101840013

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 348104696015 File : 072_015 Time : 13-MAR-2008 02:16
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1691.4	10000	10180	ng	2	15	
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2306.7	504.0	603.3	ng	**20**	15	c+
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1199.9	504.0	682.1	ng	**35**	15	c+

PDM 03/13/08 : PID surrogates are not applicable.

PDM 03/13/08 [Trifluorotoluene (FID) A]: Passes control limits.

PDM 03/13/08 [Bromofluorobenzene (FID) A]: Passes control limits.

PDM 03/13/08 : only Gas C7-C12 reported

Analyst: PDM Date: 03/13/08 Reviewer: MMP Date: 03/13/08

+=high bias c=CCV

348104696015

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 348104696025 File : 072_025 Time : 13-MAR-2008 08:31
Standards: S8447 (666.7X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348094534004	05-MAR-2008	1661.3	1673.3	15000	15110	ng	1	15	
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2461.9	504.0	643.9	ng	**28**	15	c+
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1187.7	504.0	675.2	ng	**34**	15	c+

PDM 03/13/08 : PID surrogates are not applicable.

PDM 03/13/08 [Trifluorotoluene (FID) A]: Passes control limits.

PDM 03/13/08 [Bromofluorobenzene (FID) A]: Passes control limits.

PDM 03/13/08 : only Gas C7-C12 reported

Analyst: PDM Date: 03/13/08 Reviewer: MMP Date: 03/13/08

+=high bias c=CCV

348104696025

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348076830

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 02/22/08 08:30
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	053_001	X	CMARK			02/22/08 08:30	1.0	1 2	
002	053_002	CCV/LCS	QC429338	Soil	135092	02/22/08 09:07	1.0	3 2	2:BZME=5000
003	053_003	X	IB			02/22/08 09:59	1.0	2	
004	053_004	X	IB			02/22/08 10:48	1.0	2	
005	053_005	BLANK	QC429337	Soil	135092	02/22/08 11:26	1.0	2	
006	053_006	MSS	201306-002	Soil	135092	02/22/08 13:25	1.0	2	
007	053_007	SAMPLE	201331-001	Soil	135092	02/22/08 14:23	1.0	2	
008	053_008	SAMPLE	201331-002	Soil	135092	02/22/08 15:01	1.0	2	
009	053_009	SAMPLE	201331-003	Soil	135092	02/22/08 15:43	1.0	2	
010	053_010	SAMPLE	201331-004	Soil	135092	02/22/08 16:21	1.0	2	
011	053_011	MS	QC429339	Soil	135092	02/22/08 16:59	1.0	3 2	3:BZME=9000
012	053_012	MSD	QC429340	Soil	135092	02/22/08 17:36	1.0	3 2	3:BZME=8700
013	053_013	CCV	TVH			02/22/08 18:14	1.0	3 2	4:BZME=9900
014	053_014	X	CCV			02/22/08 18:51	1.0	3 2	
015	053_015	X	CMARK			02/22/08 19:29	1.0	1 2	
016	053_016	SAMPLE	201331-005	Soil	135092	02/22/08 20:06	1.0	2	
017	053_017	SAMPLE	201331-006	Soil	135092	02/22/08 20:44	1.0	2	
018	053_018	SAMPLE	201331-007	Soil	135092	02/22/08 21:21	1.0	2	
019	053_019	SAMPLE	201331-008	Soil	135092	02/22/08 21:59	1.0	2	
020	053_020	SAMPLE	201331-009	Soil	135092	02/22/08 22:36	1.0	2	
021	053_021	SAMPLE	201331-010	Soil	135092	02/22/08 23:14	1.0	2	
022	053_022	CCV	TVH			02/22/08 23:51	1.0	3 2	5:BZME=14000
023	053_023	X	CCV			02/23/08 00:29	1.0	3 2	
024	053_024	X	CMARK			02/23/08 01:06	1.0	1 2	
025	053_025	X	IB			02/23/08 01:44	1.0	2	
026	053_026	X	IB			02/23/08 02:21	1.0	2	
027	053_027	X	IB			02/23/08 02:59	1.0	2	
028	053_028	ICAL	BTXE_1			02/23/08 03:36	1.0	4 2	
029	053_029	ICAL	MBTXE_2			02/23/08 04:14	1.0	5 2	
030	053_030	ICAL	MBTXE_3			02/23/08 04:51	1.0	5 2	
031	053_031	ICAL	MBTXE_4			02/23/08 05:29	1.0	5 2	
032	053_032	ICAL	MBTXE_5			02/23/08 06:06	1.0	6 2	
033	053_033	ICAL	MBTXE_6			02/23/08 06:44	1.0	6 2	
034	053_034	ICAL	MBTXE_7			02/23/08 07:21	1.0	6 2	
035	053_035	ICAL	MTBE_7			02/23/08 07:59	1.0	7 2	
036	053_036	X	IB			02/23/08 08:36	1.0	2	
037	053_037	ICV	MBTXE			02/23/08 09:14	1.0	8 2	
038	053_038	X	MBTXE			02/23/08 10:46	1.0	8 2	
039	053_039	X	MBTXE			02/23/08 14:21	1.0	9 2	

Analyst: PDM Date: 02/23/08 Reviewer: LH Date: 02/25/08

Standards used: 1=S8201 2=S8275 3=S8391 4=S7770 5=S7769 6=S7768 7=S7767 8=S7868 9=S8465

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348094534

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 03/05/08 15:34
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	065_001	X	IB			03/05/08 15:34	1.0	1
002	065_002	CMARKER				03/05/08 16:12	1.0	2 1
003	065_003	IB	IB			03/05/08 16:50	1.0	1
004	065_004	X	IB			03/05/08 17:27	1.0	1
005	065_005	X	TVH 1			03/05/08 18:05	1.0	3 1
006	065_006	ICAL	TVH 2			03/05/08 18:42	1.0	4 1
007	065_007	ICAL	TVH 3			03/05/08 19:20	1.0	5 1
008	065_008	ICAL	TVH 4			03/05/08 19:57	1.0	6 1
009	065_009	ICAL	TVH 5			03/05/08 20:35	1.0	6 1
010	065_010	X	IB			03/05/08 21:12	1.0	1
011	065_011	X	TVH			03/05/08 21:50	1.0	7 1
012	065_012	X	ICV			03/05/08 22:27	1.0	7 1
013	065_013	X	TVH 1			03/06/08 08:27	1.0	3 1
014	065_014	X	TVH			03/06/08 09:04	1.0	7 1
015	065_015	ICAL	TVH 1			03/06/08 10:40	1.0	3 1
016	065_016	ICV	TVH			03/06/08 11:18	1.0	7 1

Analyst: PDM Date: 03/06/08 Reviewer: MMP Date: 03/06/08

Standards used: 1=S8275 2=S8201 3=S7784 4=S7783 5=S7782 6=S7781 7=S8283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348101840

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 03/10/08 10:48
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	070_001	X	IB			03/10/08 10:48	1.0	1
002	070_002	X	CMARK			03/10/08 12:13	1.0	2 1
003	070_003	X	CCV			03/10/08 12:51	1.0	3 1
004	070_004	CCV/LCS	QC432148	Soil	135798	03/10/08 13:28	1.0	4 1
005	070_005	BLANK	QC432147	Soil	135798	03/10/08 14:57	1.0	1
006	070_006	SAMPLE	201726-003	Soil	135798	03/10/08 17:20	1.0	1
007	070_007	MSS	201617-008	Soil	135798	03/10/08 20:53	1.0	1
008	070_008	SAMPLE	201748-001	Soil	135798	03/10/08 22:06	1.0	1
009	070_009	SAMPLE	201748-002	Soil	135798	03/11/08 10:49	1.0	1
012	070_012	SAMPLE	201743-003	Soil	135798	03/11/08 15:36	1.0	1
013	070_013	CCV	TVH			03/11/08 16:52	1.0	4 1

MRC 03/12/08 : This sequence did not finish. Instrument errors prevented running the 201660 job and the ms/msd in the subsequent bracket. There are no data files

Analyst: PDM Date: 03/11/08 Reviewer: MRC Date: 03/12/08

Standards used: 1=S8641 2=S8201 3=S8449 4=S8447

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348104696

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 03/12/08 16:56
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	072_001	X	IB			03/12/08 16:56	1.0	1
002	072_002	X	CMARK			03/12/08 17:48	1.0	2 1
003	072_003	X	CCV			03/12/08 18:44	1.0	3 1
004	072_004	X	CCV			03/12/08 19:22	1.0	4 1
005	072_005	CCV/LCS	QC432553	Soil	135902	03/12/08 20:00	1.0	4 1
006	072_006	X	IB			03/12/08 20:38	1.0	1
007	072_007	BLANK	QC432552	Soil	135902	03/12/08 21:15	1.0	1
008	072_008	MSS	201765-001	Soil	135902	03/12/08 21:53	1.0	1
009	072_009	SAMPLE	201859-001	Soil	135902	03/12/08 22:31	1.0	1
010	072_010	SAMPLE	201860-001	Soil	135902	03/12/08 23:08	1.0	1
011	072_011	SAMPLE	201861-001	Soil	135902	03/12/08 23:46	1.0	1
012	072_012	MS	QC432554	Soil	135902	03/13/08 00:23	1.0	4 1
013	072_013	MSD	QC432555	Soil	135902	03/13/08 01:01	1.0	4 1
014	072_014	X	CCV			03/13/08 01:38	1.0	4 1
015	072_015	CCV	TVH			03/13/08 02:16	1.0	4 1
016	072_016	X	CMARK			03/13/08 02:53	1.0	2 1
017	072_017	SAMPLE	201814-001	Soil	135902	03/13/08 03:31	1.0	1
018	072_018	SAMPLE	201814-002	Soil	135902	03/13/08 04:08	1.0	1
019	072_019	SAMPLE	201814-003	Soil	135902	03/13/08 04:46	1.0	1
020	072_020	SAMPLE	201814-004	Soil	135902	03/13/08 05:23	1.0	1
021	072_021	SAMPLE	201814-005	Soil	135902	03/13/08 06:01	1.0	1
022	072_022	SAMPLE	201814-006	Soil	135902	03/13/08 06:38	1.0	1
023	072_023	MS	QC432149	Soil	135798	03/13/08 07:16	1.0	4 1
024	072_024	MSD	QC432150	Soil	135798	03/13/08 07:53	1.0	4 1
025	072_025	CCV	TVH			03/13/08 08:31	1.0	4 1
026	072_026	SAMPLE	201814-006	Soil	135902	03/13/08 09:18	1.0	1
027	072_027	CCV	TVH			03/13/08 10:04	1.0	4 1

Analyst: PDM Date: 03/13/08 Reviewer: _____ Date: _____

Standards used: 1=S8641 2=S8201 3=S8449 4=S8447

Project TVH/BTXE Soil Weight LogBook BX-258

Continued from Page ____

Sample / Core / Jar ID	Weight (g)	H2SO4 (?)	Comp (?)	Comments
201743 - 001 B	4.98	NO	NO	PdM 3/7/08
-002	3.85			
-003	5.58			
-004	3.75			
-005	4.93			
-006	4.92			
-007	5.61			
-008	5.05			
-009	5.05	5.52		
-010	5.52 PdM 3/7/08	4.18		
201726-001 G	4.48	6.44		
MS F		7.18		
MSD H		6.22		
-002 C		5.59		
-003 C		5.80		
201629 -032A	1.1	NO	NO	PdM 3/8/08
201743 -003 D	5.8			
201726 -003 F	6.4			
MS 201726-001 I	6.3			
MSD J	6.7			
201535 - 001 C	1.1			
201743-008 C	3.9			
201743-008 D	4.61			
201726-003 G	5.80	No	No	MRC 3-10-08
201660-001 A	4.94	No	No	MRC 3-10-08
002	5.21			
003	5.71			
004	5.86			
005	5.25			
006	5.65			
201748-001 B	9.9	No	No	MRC 3-10-08
002 B	9.6			
201617-008	0.9			
~~201717-MRC 3-10-08~~				
MS 201617-008 A	0.9			
MSD A	1.0			

Continued on Page

PdM — Signed
3/7/08 — Date

Read and Understood By

Signed — Date

Date/Analyst	Sample ID/Core ID/Jar	Weight (g)	MeOH (ml)	Comments
PdM 3/1/08	201583-004 B	4.67	4.70	BJCT981 alias of 201488-011
↓	-005	5.40	5.40	↓ ↓ -014
↓	-009	5.38	5.40	-016
↓	-010 ↓	5.26	5.30	↓ -017
↓	MeOH MB	—	5.0	BJCT981
↓	201310-001A	5.04	↓	↓
↓	200869-012A	4.97	↓	↓
CP 3/2/08	MeOH MB	—	5.0	BJCT981
↓	201583-003 C	4.88	4.90	↓ alias of 201488-010
PdM 3/4/08	MeOH MB	—	5.0	BJCT981
	201381-009 D	4.33	4.30	
↓	201533-007 ↓	5.35	3.40	↓
MRC 3-7-08	201629-007 A	5.04	5.0	BJ CT981
	014	4.99	5.0	
	019 ↓	5.03	5.0	
↓	MeOH MB	—	5.0	↓
CP 3/7/08	MeOH MB	—	5.0	BJCT981
↓	201711-001 A	4.56	4.6	↓
PdM 3/8/08	201629-036 A	5.0	5.0	BJCT981
↓	MeOH MB	—	↓	↓
↓	201535-001 C	5.0	5.0	↓
↓	201726-001 K	6.7	6.70	↓
PdM 3/12/08	201660-001 C	6.68	6.70	~~BJCT981~~ PdM 3/12/08 BJCV200
	MeOH MB	—	5.0	↓ ↓

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
PdM	3/1/08		

Project TVH/BTXE Soil Weight Log book Bk 2583

Continued from Page

Case / Sample / Jar ID	Weight (g)	Comp?	NaHSO4?	Comments
201726-001 N MS	6.3	No	No	MRC 3-10-08
MSD	6.6			
201834-001 B	1.01	No	No	MRC 3-10-08
MS	0.97			
MSD	0.96			
201617-008 A MS	0.91	No	No	MRC 3-11-08
MSD	0.96			
201660-001 B	5.82	NO	NO	PdM 3/12/08
-004 B	6.17			
201743-003 E	4.11	No	No	Vials labeled checked to conf. rpt - MRC 3-12-08
201814-001 B	6.49	NO	NO	JDG 3/12/08
002	3.92			
003	5.18			
004	5.20			
005	4.13			
006 C	5.47			
201859-001	5.72			Alias 201814-007 B
201860-001	5.94			Alias 201814-008 B
201861-001	4.89			Alias 201814-009 B
MS 201617-008 A	0.96	No	No	MRC 3-12-08
MSD	1.02			
201765-001 A	0.96	No	No	MRC 3-12-08
MS	1.00			
MSD	0.98			

Continued on Page

PdM
Signed

3/12/08
Date

Read and Understood By

Signed

Date

Curtis & Tompkins, Ltd.

TPH-Extractables Data (Soil)

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08
Diln Fac:	1.000	Prepared:	03/09/08
Batch#:	135756	Analyzed:	03/10/08

Field ID:	1065EX305[6.0]	Basis:	dry
Type:	SAMPLE	Moisture:	15%
Lab ID:	201748-001	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.2	0.20
Fuel Oil C24-C36	1.3 J	5.9	1.2

Surrogate	%REC	Limits
Hexacosane	81	65-135

Field ID:	1065EX306[6.0]	Basis:	dry
Type:	SAMPLE	Moisture:	20%
Lab ID:	201748-002	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.2	0.21
Fuel Oil C24-C36	ND	6.2	1.3

Surrogate	%REC	Limits
Hexacosane	71	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC431977	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.13
Fuel Oil C24-C36	ND	5.0	0.57

Surrogate	%REC	Limits
Hexacosane	93	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC431978	Batch#:	135756
Matrix:	Soil	Prepared:	03/09/08
Units:	mg/Kg	Analyzed:	03/10/08
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.59	43.74	88	65-135

Surrogate	%REC	Limits
Hexacosane	87	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	135756
MSS Lab ID:	201704-003	Sampled:	03/04/08
Matrix:	Soil	Received:	03/06/08
Units:	mg/Kg	Prepared:	03/09/08
Basis:	as received	Analyzed:	03/11/08
Diln Fac:	1.000		

Type: MS Lab ID: QC431979

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	3.903	50.02	47.28	87	65-135

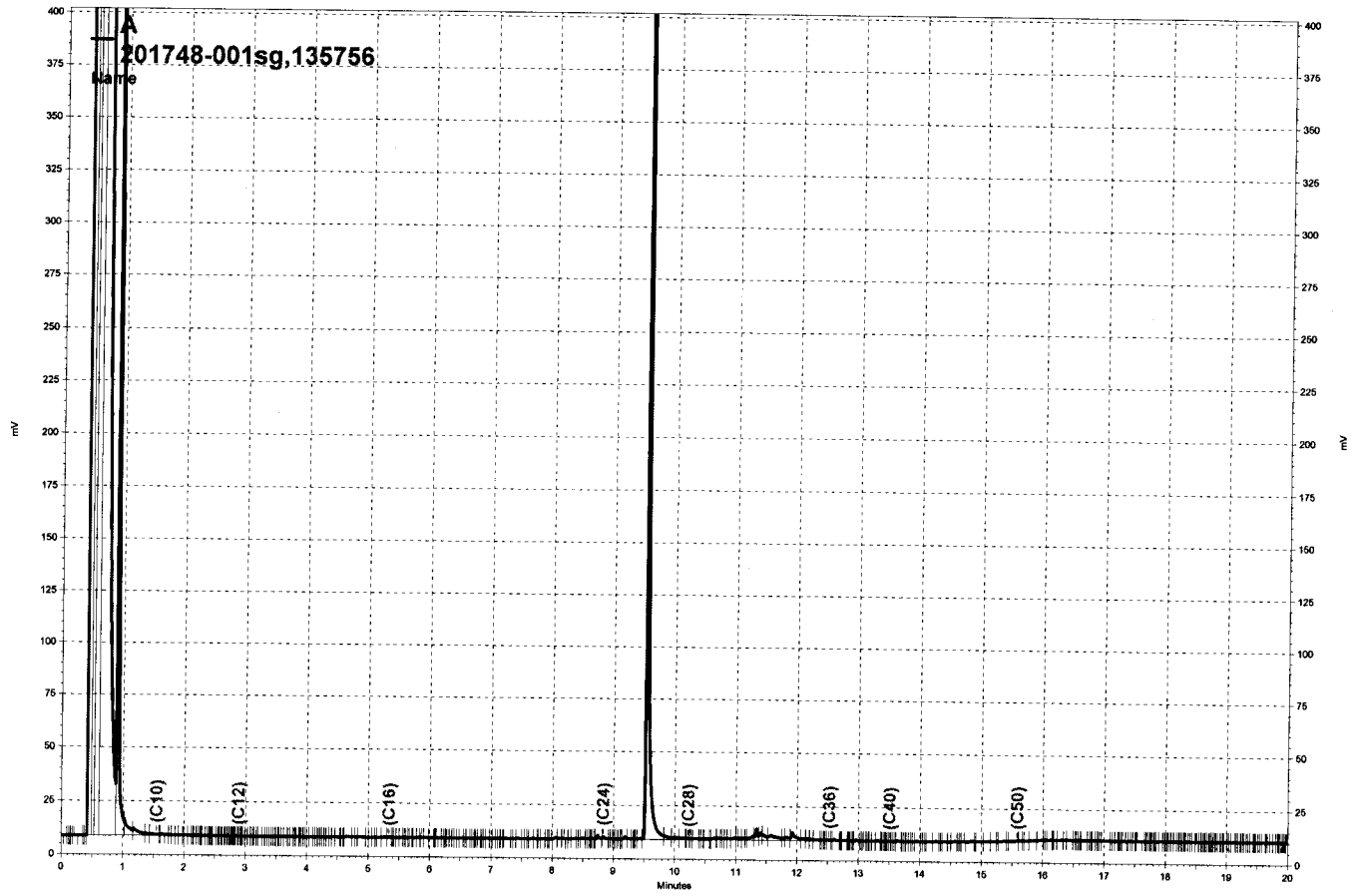
Surrogate	%REC	Limits
Hexacosane	96	65-135

Type: MSD Lab ID: QC431980

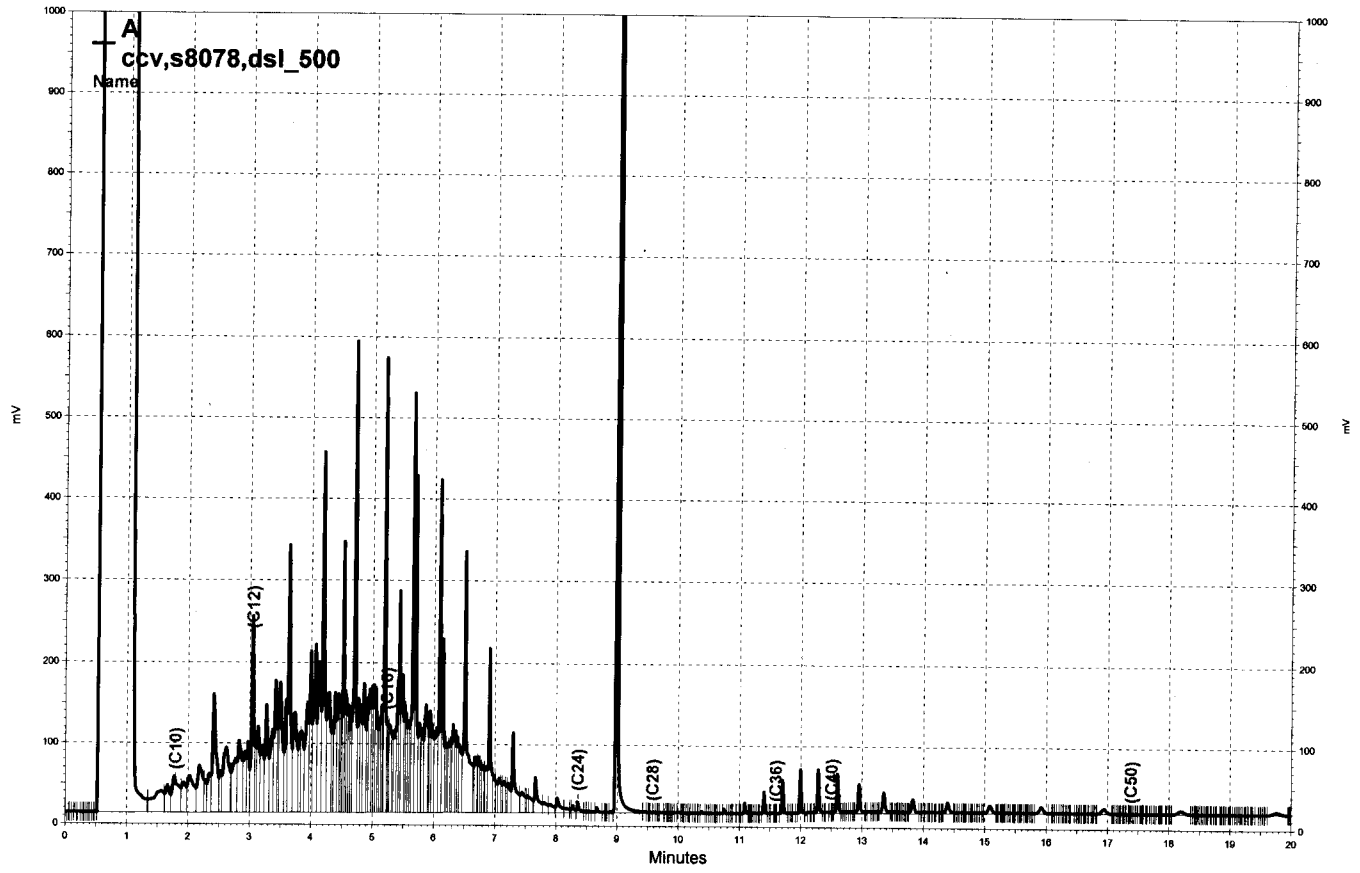
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	50.03	43.35	79	65-135	9	35

Surrogate	%REC	Limits
Hexacosane	88	65-135

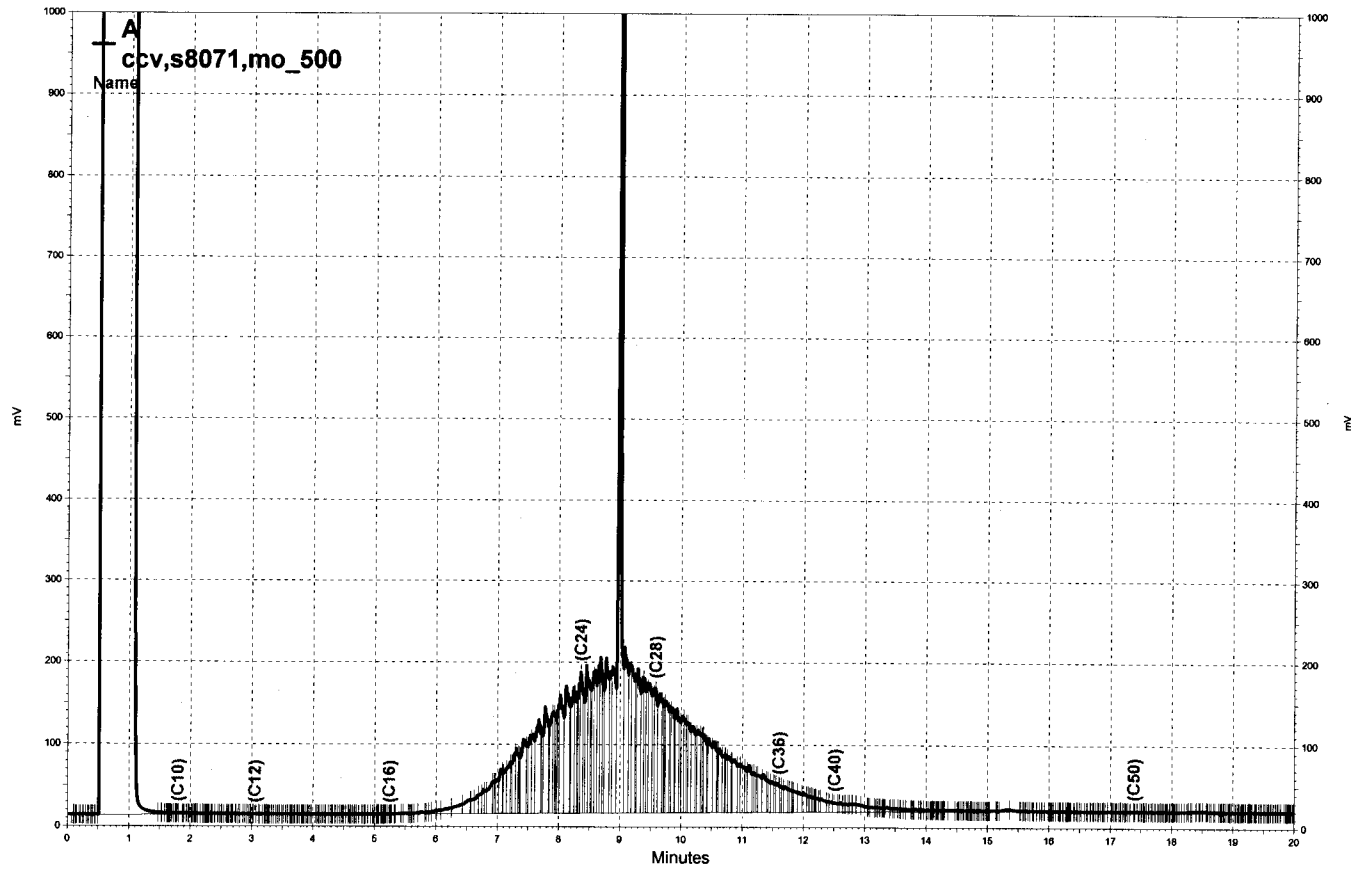
RPD= Relative Percent Difference



\\Lims\gdrive\ezchrom\Projects\GC26\Data\070a026, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\070a004, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\070a005, A

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178033862001
Units : mg/L

Name : DSL
Date : 23-JAN-2008 16:34
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	023a009	178033862009	DSL_10	23-JAN-2008 16:34	S7961
L2	023a010	178033862010	DSL_100	23-JAN-2008 17:01	S7962
L3	023a011	178033862011	DSL_500	23-JAN-2008 17:29	S7963
L4	023a012	178033862012	DSL_1000	23-JAN-2008 17:56	S7964
L5	023a013	178033862013	DSL_5000	23-JAN-2008 18:23	S7960
L6	023a014	178033862014	DSL_7500	23-JAN-2008 18:51	S7965

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60742	57877	58443	64970	61981	60320	AVRG		1.65E-5		60722	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	0	100.0	-5	500.0	-4	1000	7	5000	2	7500	-1

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201748 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178033862001

Name : DSL
Cal Date : 23-JAN-2008

ICV 178033862016 (023a016 23-JAN-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	60722	66286	500.0	545.8	mg/L	9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178035189001
Units : mg/L

Name : HEX_024
Date : 24-JAN-2008 13:37
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a007	178035189007	HEX_5	24-JAN-2008 13:37	S8093
L2	024a008	178035189008	HEX_10	24-JAN-2008 14:04	S8094
L3	024a009	178035189009	HEX_25	24-JAN-2008 14:32	S8095
L4	024a010	178035189010	HEX_50	24-JAN-2008 14:59	S8096
L5	024a011	178035189011	HEX_100	24-JAN-2008 15:26	S8097

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	66995	65277	66174	65324	65865	AVRG		1.52E-5		65927	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	0	50.00	-1	100.0	0

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

178035189001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 867497798001
Units : mg/L

Name : dsl 26a
Date : 11-DEC-2007 18:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345a011	867497798011	DSL_10	11-DEC-2007 18:30	S6612
L2	345a012	867497798012	DSL_100	11-DEC-2007 18:58	S6613
L3	345a013	867497798013	DSL_500	11-DEC-2007 19:26	S6614
L4	345a014	867497798014	DSL_1000	11-DEC-2007 19:55	S6615
L5	345a015	867497798015	DSL_5000	11-DEC-2007 20:23	S6611
L6	345a016	867497798016	DSL_7500	11-DEC-2007 20:51	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	28340	28690	29040	26736	23175	25343	AVRG		3.72E-5		26887	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	5	100.0	7	500.0	8	1000	-1	5000	-14	7500	-6

Analyst: JDG Date: 12/12/07 Reviewer: LH Date: 12/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

867497798001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 868030807001
Units : mg/L

Name : Motor Oil
Date : 21-JAN-2008 12:59
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	021a008	868030807008	MO_50	21-JAN-2008 12:59	S6848
L2	021a009	868030807009	MO_250	21-JAN-2008 13:27	S6849
L3	021a010	868030807010	MO_500	21-JAN-2008 13:56	S6850
L4	021a011	868030807011	MO_1000	21-JAN-2008 14:25	S6851
L5	021a012	868030807012	MO_5000	21-JAN-2008 14:53	S6846
L6	021a013	868030807013	MO_7500	21-JAN-2008 15:22	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	16990	22848	19942	19186	19926	18163	AVRG		5.13E-5		19509	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-13	250.0	17	500.0	2	1000	-2	5000	2	7500	-7

Analyst: ATL Date: 01/22/08 Reviewer: LH Date: 01/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 868030807002
Units : mg/L

Name : Hexacosane 26A
Date : 21-JAN-2008 16:19
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	021a015	868030807015	HEX_5	21-JAN-2008 16:19	S8093
L2	021a016	868030807016	HEX_10	21-JAN-2008 16:48	S8094
L3	021a017	868030807017	HEX_25	21-JAN-2008 17:17	S8095
L4	021a018	868030807018	HEX_50	21-JAN-2008 17:46	S8096
L5	021a019	868030807019	HEX_100	21-JAN-2008 18:14	S8097
L6	021a020	868030807020	HEX_200	21-JAN-2008 18:43	S8098

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	30571	28929	30046	32169	31206	31136	AVRG		3.26E-5		30676	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	0	10.00	-6	25.00	-2	50.00	5	100.0	2	200.0	1

S8095

Analyst: ATL Date: 01/22/08 Reviewer: LH Date: 01/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

868030807002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178035189001
Units : mg/L

Name : HEX_024
Date : 24-JAN-2008 13:37
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a007	178035189007	HEX_5	24-JAN-2008 13:37	S8093
L2	024a008	178035189008	HEX_10	24-JAN-2008 14:04	S8094
L3	024a009	178035189009	HEX_25	24-JAN-2008 14:32	S8095
L4	024a010	178035189010	HEX_50	24-JAN-2008 14:59	S8096
L5	024a011	178035189011	HEX_100	24-JAN-2008 15:26	S8097

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	66995	65277	66174	65324	65865	AVRG		1.52E-5		65927	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	0	50.00	-1	100.0	0

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178035189002
Units : mg/L

Name : MO_024
Date : 24-JAN-2008 16:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a014	178035189014	MO_50	24-JAN-2008 16:49	S6848
L2	024a016	178035189016	MO_500	24-JAN-2008 17:44	S6850
L3	024a017	178035189017	MO_1000	24-JAN-2008 18:11	S6851
L4	024a018	178035189018	MO_5000	24-JAN-2008 18:38	S6846
L5	024a019	178035189019	MO_7500	24-JAN-2008 19:06	S6847
L6	024a022	178035189022	MO_250	25-JAN-2008 12:03	S6849

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	41900	45900	44141	41943	40193	51101	AVRG		2.26E-5		44196	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-5	500.0	4	1000	0	5000	-5	7500	-9	250.0	16

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 867497798001
Units : mg/L

Name : dsl 26a
Date : 11-DEC-2007 18:30
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345a011	867497798011	DSL_10	11-DEC-2007 18:30	S6612
L2	345a012	867497798012	DSL_100	11-DEC-2007 18:58	S6613
L3	345a013	867497798013	DSL_500	11-DEC-2007 19:26	S6614
L4	345a014	867497798014	DSL_1000	11-DEC-2007 19:55	S6615
L5	345a015	867497798015	DSL_5000	11-DEC-2007 20:23	S6611
L6	345a016	867497798016	DSL_7500	11-DEC-2007 20:51	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	28340	28690	29040	26736	23175	25343	AVRG		3.72E-5		26887	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	5	100.0	7	500.0	8	1000	-1	5000	-14	7500	-6

Analyst: JDG Date: 12/12/07 Reviewer: LH Date: 12/12/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

867497798001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201748 GCSV Soil
EPA 8015B

Inst : GC26A
Calnum : 867497798001

Name : dsl 26a
Cal Date : 11-DEC-2007

ICV 867497798018 (345a018 11-DEC-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	26887	27514	500.0	511.7	mg/L	2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 868030807001
Units : mg/L

Name : Motor Oil
Date : 21-JAN-2008 12:59
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	021a008	868030807008	MO_50	21-JAN-2008 12:59	S6848
L2	021a009	868030807009	MO_250	21-JAN-2008 13:27	S6849
L3	021a010	868030807010	MO_500	21-JAN-2008 13:56	S6850
L4	021a011	868030807011	MO_1000	21-JAN-2008 14:25	S6851
L5	021a012	868030807012	MO_5000	21-JAN-2008 14:53	S6846
L6	021a013	868030807013	MO_7500	21-JAN-2008 15:22	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	16990	22848	19942	19186	19926	18163	AVRG		5.13E-5		19509	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-13	250.0	17	500.0	2	1000	-2	5000	2	7500	-7

Analyst: ATL Date: 01/22/08 Reviewer: LH Date: 01/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 868030807002
Units : mg/L

Name : Hexacosane 26A
Date : 21-JAN-2008 16:19
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	021a015	868030807015	HEX_5	21-JAN-2008 16:19	S8093
L2	021a016	868030807016	HEX_10	21-JAN-2008 16:48	S8094
L3	021a017	868030807017	HEX_25	21-JAN-2008 17:17	S8095
L4	021a018	868030807018	HEX_50	21-JAN-2008 17:46	S8096
L5	021a019	868030807019	HEX_100	21-JAN-2008 18:14	S8097
L6	021a020	868030807020	HEX_200	21-JAN-2008 18:43	S8098

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	30571	28929	30046	32169	31206	31136	AVRG		3.26E-5		30676	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	0	10.00	-6	25.00	-2	50.00	5	100.0	2	200.0	1

S8095

Analyst: ATL Date: 01/22/08 Reviewer: LH Date: 01/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

868030807002

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178101168004
Standards: S8078

Run Name : DSL_500
File : 070a004

IDF : 1.0
Time : 10-MAR-2008 07:29

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	59866	500.0	493.0	mg/L	-1	15	
Hexacosane	178035189001	24-JAN-2008	65927	72977	50.00	55.35	mg/L	11	15	

Analyst: JDG Date: 03/10/08 Reviewer: LH Date: 03/10/08

178101168004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178101168005
Standards: S8071

Run Name : MO_500
File : 070a005

IDF : 1.0
Time : 10-MAR-2008 07:55

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	42974	500.0	486.2	mg/L	-3	15	
Hexacosane	178035189001	24-JAN-2008	65927	69179	50.00	52.47	mg/L	5	15	

Analyst: JDG Date: 03/10/08 Reviewer: LH Date: 03/10/08

178101168005

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 178101168013 File : 070a013 Time : 10-MAR-2008 11:33
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	55889	1000	920.4	mg/L	-8	15	
Hexacosane	178035189001	24-JAN-2008	65927	68265	50.00	51.77	mg/L	4	15	

Analyst: JDG Date: 03/10/08 Reviewer: LH Date: 03/10/08

178101168013

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178101168014 File : 070a014 Time : 10-MAR-2008 12:01
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	44955	500.0	508.6	mg/L	2	15	
Hexacosane	178035189001	24-JAN-2008	65927	70229	50.00	53.26	mg/L	7	15	

Analyst: JDG Date: 03/10/08 Reviewer: LH Date: 03/10/08

178101168014

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 178102689004 File : 071a004 Time : 11-MAR-2008 08:50
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	57393	500.0	472.6	mg/L	-5	15	
Hexacosane	178035189001	24-JAN-2008	65927	71279	50.00	54.06	mg/L	8	15	

Analyst: JDG Date: 03/11/08 Reviewer: LH Date: 03/12/08

178102689004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178102689017
Standards: S8079

Run Name : DSL_1000
File : 071a017

IDF : 1.0
Time : 11-MAR-2008 14:54

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	58886	1000	969.8	mg/L	-3	15	
Hexacosane	178035189001	24-JAN-2008	65927	71379	50.00	54.13	mg/L	8	15	

Analyst: JDG Date: 03/11/08 Reviewer: LH Date: 03/12/08

178102689017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC26A
Seqnum : 868101345020
Standards: S8079

Run Name : DSL_1000
File : 070a020

IDF : 1.0
Time : 10-MAR-2008 18:53

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	867497798001	11-DEC-2007	26887	29229	1000	1087	mg/L	9	15	
Hexacosane	868030807002	21-JAN-2008	30676	31428	50.00	51.22	mg/L	2	15	

Analyst: ATL Date: 03/11/08 Reviewer: LH Date: 03/12/08

868101345020

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868101345021 File : 070a021 Time : 10-MAR-2008 19:22
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	868030807001	21-JAN-2008	19509	20247	500.0	518.9	mg/L	4	15	
Hexacosane	868030807002	21-JAN-2008	30676	32577	50.00	53.10	mg/L	6	15	

Analyst: ATL Date: 03/11/08 Reviewer: JDG Date: 03/12/08

868101345021

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868101345037 File : 070a037 Time : 11-MAR-2008 02:53
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	868030807001	21-JAN-2008	19509	18621	500.0	477.2	mg/L	-5	15	
Hexacosane	868030807002	21-JAN-2008	30676	32310	50.00	52.66	mg/L	5	15	

Analyst: ATL Date: 03/11/08 Reviewer: JDG Date: 03/12/08

868101345037

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868101345038 File : 070a038 Time : 11-MAR-2008 03:21
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	867497798001	11-DEC-2007	26887	29593	500.0	550.3	mg/L	10	15	
Hexacosane	868030807002	21-JAN-2008	30676	31625	50.00	51.55	mg/L	3	15	

Analyst: ATL Date: 03/11/08 Reviewer: JDG Date: 03/12/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178033862

Instrument : GC17A
Method : EPA 8015B

Begun : 01/23/08 12:22
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	023a001	X	PRIMER			01/23/08 12:22	1.0	
002	023a002	X	IB			01/23/08 12:49	1.0	
003	023a003	X	CMARKER			01/23/08 13:16	1.0	1
004	023a004	CCV	DSL_500			01/23/08 13:44	1.0	2
005	023a005	CCV	MO_500			01/23/08 14:11	1.0	3
006	023a006	IB	CALIB			01/23/08 15:11	1.0	
007	023a007	CMARKER	C8-C50			01/23/08 15:39	1.0	4
008	023a008	IB	CALIB			01/23/08 16:06	1.0	
009	023a009	ICAL	DSL_10			01/23/08 16:34	1.0	5
010	023a010	ICAL	DSL_100			01/23/08 17:01	1.0	6
011	023a011	ICAL	DSL_500			01/23/08 17:29	1.0	7
012	023a012	ICAL	DSL_1000			01/23/08 17:56	1.0	8
013	023a013	ICAL	DSL_5000			01/23/08 18:23	1.0	9
014	023a014	ICAL	DSL_7500			01/23/08 18:51	1.0	10
015	023a015	IB	CALIB			01/23/08 19:18	1.0	
016	023a016	ICV	DSL_500			01/23/08 19:46	1.0	11
017	023a017	X	DSL_500			01/23/08 20:13	1.0	11
018	023a018	IB	CALIB			01/23/08 20:40	1.0	

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S4049 5=S7961 6=S7962 7=S7963 8=S7964 9=S7960 10=S7965 11=S8069

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178035189

Instrument : GC17A
Method : EPA 8015B

Begun : 01/24/08 10:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	024a001	X	PRIMER			01/24/08 10:29	1.0	
002	024a002	X	IB			01/24/08 10:56	1.0	
003	024a003	X	CMARKER			01/24/08 11:24	1.0	1
004	024a004	CCV	DSL_500			01/24/08 11:52	1.0	2
005	024a005	CCV	MO_500			01/24/08 12:19	1.0	3
006	024a006	IB	CALIB			01/24/08 13:09	1.0	
007	024a007	ICAL	HEX_5			01/24/08 13:37	1.0	4
008	024a008	ICAL	HEX_10			01/24/08 14:04	1.0	5
009	024a009	ICAL	HEX_25			01/24/08 14:32	1.0	6
010	024a010	ICAL	HEX_50			01/24/08 14:59	1.0	7
011	024a011	ICAL	HEX_100			01/24/08 15:26	1.0	8
012	024a012	ICAL	HEX_200			01/24/08 15:54	1.0	9
013	024a013	IB	CALIB			01/24/08 16:21	1.0	
014	024a014	ICAL	MO_50			01/24/08 16:49	1.0	10
015	024a015	X	MO_250			01/24/08 17:16	1.0	11
016	024a016	ICAL	MO_500			01/24/08 17:44	1.0	12
017	024a017	ICAL	MO_1000			01/24/08 18:11	1.0	13
018	024a018	ICAL	MO_5000			01/24/08 18:38	1.0	14
019	024a019	ICAL	MO_7500			01/24/08 19:06	1.0	15
020	024a020	IB	CALIB			01/24/08 19:34	1.0	
021	024a021	X	IB			01/25/08 11:21	1.0	
022	024a022	ICAL	MO_250			01/25/08 12:03	1.0	11

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S8093 5=S8094 6=S8095 7=S8096 8=S8097 9=S8098 10=S6848 11=S6849 12=S6850 13=S6851 14=S6846 15=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178101168

Instrument : GC17A
Method : EPA 8015B

Begun : 03/10/08 06:08
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	070a001	X	PRIMER				03/10/08 06:08	1.0		
002	070a002	X	IB				03/10/08 06:35	1.0		
003	070a003	X	CMARKER				03/10/08 07:02	1.0	1	
004	070a004	CCV	DSL_500				03/10/08 07:29	1.0	2	
005	070a005	CCV	MO_500				03/10/08 07:55	1.0	3	
006	070a006	CCV	JP5_250				03/10/08 08:22	1.0	4	
007	070a007	SAMPLE	201485-010	S	Water	135549	03/10/08 08:49	1.0		
008	070a008	SAMPLE	201675-002	S	Soil	135640	03/10/08 09:17	100.0		
009	070a009	X	TANKCHECK				03/10/08 09:44	1.0		
010	070a010	SAMPLE	201752-001		Miscell.		03/10/08 10:11	250.0		
011	070a011	X	IB				03/10/08 10:39	1.0		
012	070a012	BLANK	QC431977	S	Soil	135756	03/10/08 11:06	1.0		
013	070a013	CCV	DSL_1000				03/10/08 11:33	1.0	5	
014	070a014	CCV	MO_500				03/10/08 12:01	1.0	3	
015	070a015	CCV	JP5_250				03/10/08 12:29	1.0	4	
016	070a016	CCV	JP8_250				03/10/08 12:56	1.0	6	
017	070a017	MSS	201726-001	S	Soil	135772	03/10/08 13:28	1.0		
018	070a018	SAMPLE	201618-038	S	Soil	135772	03/10/08 13:56	3.0		5:BUNKC:12-40=16000
019	070a019	X	IB				03/10/08 14:23	1.0		
020	070a020	CMARKER	CMARKER				03/10/08 14:51	1.0	1	
021	070a021	CCV	DSL_250				03/10/08 15:18	1.0	7	
022	070a022	CCV	MO_500				03/10/08 15:46	1.0	3	
023	070a023	SAMPLE	201618-003	S	Soil	135561	03/10/08 17:28	1.0		
024	070a024	X	IB				03/10/08 17:56	1.0		
025	070a025	LCS	QC432035	S	Soil	135772	03/10/08 18:23	1.0		
026	070a026	BLANK	QC431821		Water	135715	03/10/08 18:51	1.0		
027	070a027	SAMPLE	201746-001		Water	135715	03/10/08 19:18	1.0		
028	070a028	SAMPLE	201680-001		Water	135715	03/10/08 19:51	1.0		
029	070a029	SAMPLE	201746-002		Water	135715	03/10/08 20:19	1.0		
030	070a030	SAMPLE	201397-004		Soil	135567	03/10/08 20:46	1.0		1:BUNKC:12-40=5100
031	070a031	MS	QC431411	S	Soil	135612	03/10/08 21:14	3.0		
032	070a032	MSD	QC431412	S	Soil	135612	03/10/08 21:41	3.0		
033	070a033	X	IB				03/10/08 22:08	1.0		
034	070a034	BLANK	QC432034	S	Soil	135772	03/10/08 22:36	1.0		
035	070a035	X	CMARKER				03/10/08 23:03	1.0	1	
036	070a036	CCV	DSL_250				03/10/08 23:30	1.0	7	
037	070a037	CCV	MO_500				03/10/08 23:57	1.0	3	
038	070a038	X	CCV				03/11/08 00:24	1.0	7	
039	070a039	X	CCV				03/11/08 00:52	1.0	3	

Standards used: 1=S8590 2=S8078 3=S8071 4=S8100 5=S8079 6=S8117 7=S8077

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178102689

Instrument : GC17A
Method : EPA 8015B

Begun : 03/11/08 07:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	071a001	X	PRIMER				03/11/08 07:29	1.0		
002	071a002	X	IB				03/11/08 07:55	1.0		
003	071a003	X	CMARKER				03/11/08 08:23	1.0	1	
004	071a004	CCV	DSL_500				03/11/08 08:50	1.0	2	
005	071a005	CCV	MO_500				03/11/08 09:17	1.0	3	
006	071a006	BLANK	QC431977		Soil	135756	03/11/08 09:53	1.0		
007	071a007	SAMPLE	201781-002		Soil	135756	03/11/08 10:20	1.0		
008	071a008	SAMPLE	201765-001		Soil	135756	03/11/08 10:47	1.0		
009	071a009	MS	QC431979		Soil	135756	03/11/08 11:15	1.0		
010	071a010	MSD	QC431980		Soil	135756	03/11/08 11:42	1.0		
011	071a011	SAMPLE	201704-002		Soil	135756	03/11/08 12:09	1.0		
012	071a012	SAMPLE	201745-030	S	Soil	135756	03/11/08 12:37	1.0		2:BUNKC:12-40=12000
013	071a013	X	IB				03/11/08 13:04	1.0		
014	071a014	SAMPLE	201781-005		Soil	135756	03/11/08 13:31	1.0		
015	071a015	SAMPLE	201766-003		Water	135741	03/11/08 13:59	1.0		
016	071a016	SAMPLE	201766-004		Water	135741	03/11/08 14:26	1.0		
017	071a017	CCV	DSL_1000				03/11/08 14:54	1.0	4	
018	071a018	CCV	MO_500				03/11/08 15:22	1.0	3	
019	071a019	SAMPLE	201777-001		Water	135790	03/11/08 16:04	1.0		
020	071a020	SAMPLE	201777-002		Water	135790	03/11/08 16:31	1.0		
021	071a021	SAMPLE	201777-003		Water	135790	03/11/08 16:59	1.0		
022	071a022	BLANK	QC431974	S	Water	135755	03/11/08 17:26	1.0		
023	071a023	SAMPLE	201774-006	S	Water	135755	03/11/08 17:54	1.0		
024	071a024	BS	QC431975	S	Water	135755	03/11/08 18:22	1.0		
025	071a025	BSD	QC431976	S	Water	135755	03/11/08 18:49	1.0		
026	071a026	SAMPLE	201772-002		Water	135755	03/11/08 19:16	1.0		
027	071a027	SAMPLE	201771-001		Water	135755	03/11/08 19:44	1.0		
028	071a028	SAMPLE	201771-003		Water	135755	03/11/08 20:11	1.0		
029	071a029	CCV	DSL_250				03/11/08 20:38	1.0	5	
030	071a030	CCV	MO_500				03/11/08 21:06	1.0	3	
031	071a031	CCV	JET_250				03/11/08 21:33	1.0	6	
032	071a032	CCV	JP5_250				03/11/08 22:00	1.0	7	
033	071a033	CCV	JP8_250				03/11/08 22:27	1.0	8	
034	071a034	X	CCV				03/11/08 22:54	1.0	5	
035	071a035	X	CCV				03/11/08 23:22	1.0	3	
036	071a036	X	CCV				03/11/08 23:49	1.0	6	
037	071a037	X	CCV				03/12/08 00:16	1.0	7	
038	071a038	X	CCV				03/12/08 00:43	1.0	8	
039	071a039	BLANK	QC432034		Soil	135772	03/12/08 01:10	1.0		
040	071a040	MS	QC432036	S	Soil	135772	03/12/08 01:37	1.0		
041	071a041	MSD	QC432037	S	Soil	135772	03/12/08 02:04	1.0		
042	071a042	BLANK	QC431974		Water	135755	03/12/08 02:32	1.0		
043	071a043	BLANK	QC432121		Water	135790	03/12/08 02:59	1.0		
044	071a044	BLANK	QC432121	S	Water	135790	03/12/08 03:27	1.0		
045	071a045	SAMPLE	201772-001		Water	135755	03/12/08 03:54	1.0		
046	071a046	SAMPLE	201771-006		Water	135755	03/12/08 04:21	1.0		
047	071a047	SAMPLE	201783-004	S	Water	135790	03/12/08 04:48	1.0		
048	071a048	SAMPLE	201783-005	S	Water	135790	03/12/08 05:16	1.0		
049	071a049	X	CMARKER				03/12/08 05:43	1.0	1	
050	071a050	CCV	DSL_1000				03/12/08 06:09	1.0	4	
051	071a051	CCV	MO_500				03/12/08 06:37	1.0	3	
052	071a052	CCV	JET_250				03/12/08 07:04	1.0	6	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178102689

Instrument : GC17A
Method : EPA 8015B

Begun : 03/11/08 07:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	071a053	CCV	JP5_250				03/12/08 07:31	1.0	7	
054	071a054	CCV	JP8_250				03/12/08 07:58	1.0	8	
055	071a055	SAMPLE	201675-004		Soil	135640	03/12/08 08:29	1.0		
056	071a056	SAMPLE	201675-004	S	Soil	135640	03/12/08 08:57	1.0		
057	071a057	SAMPLE	201675-005		Soil	135640	03/12/08 09:24	1.0		
058	071a058	X	IB				03/12/08 09:51	1.0		
059	071a059	SAMPLE	201734-002		Water	135790	03/12/08 10:18	1.0		
060	071a060	SAMPLE	201675-006		Soil	135640	03/12/08 10:45	1.0		
061	071a061	SAMPLE	201675-006	S	Soil	135640	03/12/08 11:13	1.0		
062	071a062	SAMPLE	201675-008		Soil	135640	03/12/08 11:40	1.0		
063	071a063	SAMPLE	201675-008	S	Soil	135640	03/12/08 12:07	1.0		
064	071a064	SAMPLE	201675-009		Soil	135640	03/12/08 12:35	1.0		
065	071a065	SAMPLE	201675-009	S	Soil	135640	03/12/08 13:02	1.0		
066	071a066	X	CMARKER				03/12/08 13:29	1.0	1	
067	071a067	CCV	DSL_250				03/12/08 13:57	1.0	5	
068	071a068	CCV	MO_500				03/12/08 14:24	1.0	3	
069	071a069	CCV	JP5_250				03/12/08 14:52	1.0	7	
070	071a070	CCV	JP8_250				03/12/08 15:19	1.0	8	

Standards used: 1=S8590 2=S8078 3=S8071 4=S8079 5=S8077 6=S8251 7=S8100 8=S8117

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 867497798

Instrument : GC26A
Method : EPA 8015B

Begun : 12/11/07 16:38
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
007	345a007	X	IB			12/11/07 16:38	1.0	
008	345a008	IB	CALIB			12/11/07 17:06	1.0	
009	345a009	X	CMARKER			12/11/07 17:34	1.0	1
010	345a010	IB	CALIB			12/11/07 18:02	1.0	
011	345a011	ICAL	DSL_10			12/11/07 18:30	1.0	2
012	345a012	ICAL	DSL_100			12/11/07 18:58	1.0	3
013	345a013	ICAL	DSL_500			12/11/07 19:26	1.0	4
014	345a014	ICAL	DSL_1000			12/11/07 19:55	1.0	5
015	345a015	ICAL	DSL_5000			12/11/07 20:23	1.0	6
016	345a016	ICAL	DSL_7500			12/11/07 20:51	1.0	7
017	345a017	IB	CALIB			12/11/07 21:19	1.0	
018	345a018	ICV	DSL_500			12/11/07 21:47	1.0	8
019	345a019	X	DSL_500			12/11/07 22:15	1.0	8
020	345a020	IB	CALIB			12/11/07 22:43	1.0	
021	345a021	ICAL	MO_50			12/11/07 23:12	1.0	9
022	345a022	ICAL	MO_250			12/11/07 23:40	1.0	10
023	345a023	ICAL	MO_500			12/12/07 00:08	1.0	11
024	345a024	ICAL	MO_1000			12/12/07 00:36	1.0	12
025	345a025	ICAL	MO_5000			12/12/07 01:04	1.0	13
026	345a026	ICAL	MO_7500			12/12/07 01:32	1.0	14
027	345a027	IB	CALIB			12/12/07 02:00	1.0	
028	345a028	ICAL	HEX_5			12/12/07 02:28	1.0	15
029	345a029	ICAL	HEX_10			12/12/07 02:56	1.0	16
030	345a030	ICAL	HEX_25			12/12/07 03:25	1.0	17
031	345a031	ICAL	HEX_50			12/12/07 03:53	1.0	18
032	345a032	ICAL	HEX_100			12/12/07 04:21	1.0	19
033	345a033	ICAL	HEX_200			12/12/07 04:49	1.0	20
034	345a034	IB	CALIB			12/12/07 05:17	1.0	

Analyst: JDG Date: 12/12/07 Reviewer: LH Date: 12/12/07

Standards used: 1=S4049 2=S6612 3=S6613 4=S6614 5=S6615 6=S6611 7=S6616 8=S6617 9=S6848 10=S6849 11=S6850 12=S6851 13=S6846 14=S6847 15=S7036 16=S7037 17=S7038 18=S7039 19=S7040 20=S7041

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868030807

Instrument : GC26A
Method : EPA 8015B

Begun : 01/21/08 09:27
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	021a001	X	PRIMER			01/21/08 09:27	1.0	
002	021a002	X	IB			01/21/08 09:55	1.0	
003	021a003	X	IB			01/21/08 10:24	1.0	
004	021a004	X	CMARKER			01/21/08 10:52	1.0	1
005	021a005	CCV	DSL_500			01/21/08 11:20	1.0	2
006	021a006	CCV	MO_500			01/21/08 11:49	1.0	3
007	021a007	IB	CALIB			01/21/08 12:30	1.0	
008	021a008	ICAL	MO_50			01/21/08 12:59	1.0	4
009	021a009	ICAL	MO_250			01/21/08 13:27	1.0	5
010	021a010	ICAL	MO_500			01/21/08 13:56	1.0	6
011	021a011	ICAL	MO_1000			01/21/08 14:25	1.0	7
012	021a012	ICAL	MO_5000			01/21/08 14:53	1.0	8
013	021a013	ICAL	MO_7500			01/21/08 15:22	1.0	9
014	021a014	IB	CALIB			01/21/08 15:51	1.0	
015	021a015	ICAL	HEX_5			01/21/08 16:19	1.0	10
016	021a016	ICAL	HEX_10			01/21/08 16:48	1.0	11
017	021a017	ICAL	HEX_25			01/21/08 17:17	1.0	12
018	021a018	ICAL	HEX_50			01/21/08 17:46	1.0	13
019	021a019	ICAL	HEX_100			01/21/08 18:14	1.0	14
020	021a020	ICAL	HEX_200			01/21/08 18:43	1.0	15
021	021a021	IB	CALIB			01/21/08 19:11	1.0	

Analyst: ATL Date: 01/22/08 Reviewer: LH Date: 01/22/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S6848 5=S6849 6=S6850 7=S6851 8=S6846 9=S6847 10=S8093 11=S8094 12=S8095 13=S8096 14=S8097 15=S8098

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868101345

Instrument : GC26A
Method : EPA 8015B
Begun : 03/10/08 09:05
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	070a001	X	PRIMER				03/10/08 09:05	1.0	
002	070a002	X	IB				03/10/08 09:33	1.0	
003	070a003	X	IB				03/10/08 10:00	1.0	
004	070a004	CMARKER	C8-C50				03/10/08 10:28	1.0	1
005	070a005	CCV	DSL_250				03/10/08 10:57	1.0	2
006	070a006	CCV	MO_500				03/10/08 11:25	1.0	3
007	070a007	X	IB				03/10/08 12:43	1.0	
008	070a008	SAMPLE	201715-006	S	Water	135715	03/10/08 13:11	1.0	
009	070a009	SAMPLE	201715-007	S	Water	135715	03/10/08 13:40	1.0	
010	070a010	SAMPLE	201715-005	S	Water	135715	03/10/08 14:08	1.0	
011	070a011	SAMPLE	201715-008	S	Water	135715	03/10/08 14:36	1.0	
012	070a012	SAMPLE	201715-009	S	Water	135715	03/10/08 15:05	1.0	
013	070a013	X	IB				03/10/08 15:34	1.0	
014	070a014	SAMPLE	201715-010	S	Water	135715	03/10/08 16:02	1.0	
015	070a015	SAMPLE	201715-011	S	Water	135715	03/10/08 16:31	1.0	
016	070a016	MS	QC431979		Soil	135756	03/10/08 16:59	1.0	
017	070a017	MSD	QC431980		Soil	135756	03/10/08 17:28	1.0	
018	070a018	X	IB				03/10/08 17:56	1.0	
019	070a019	SAMPLE	201716-005	S	Water	135715	03/10/08 18:25	1.0	
020	070a020	CCV	DSL_1000				03/10/08 18:53	1.0	4
021	070a021	CCV	MO_500				03/10/08 19:22	1.0	3
022	070a022	X	CCV				03/10/08 19:50	1.0	4
023	070a023	X	CCV				03/10/08 20:19	1.0	3
024	070a024	LCS	QC431978	S	Soil	135756	03/10/08 20:47	1.0	
025	070a025	SAMPLE	201748-002	S	Soil	135756	03/10/08 21:15	1.0	
026	070a026	SAMPLE	201748-001	S	Soil	135756	03/10/08 21:44	1.0	
027	070a027	SAMPLE	201745-029	S	Soil	135756	03/10/08 22:12	1.0	
028	070a028	SAMPLE	201745-032	S	Soil	135756	03/10/08 22:40	1.0	
029	070a029	SAMPLE	201704-002		Soil	135756	03/10/08 23:08	1.0	
030	070a030	SAMPLE	201745-030	S	Soil	135756	03/10/08 23:36	1.0	
031	070a031	SAMPLE	201745-031	S	Soil	135756	03/11/08 00:05	1.0	
032	070a032	SAMPLE	201704-001		Soil	135756	03/11/08 00:33	2.0	
033	070a033	X	IB				03/11/08 01:01	1.0	
034	070a034	BLANK	QC431977		Soil	135756	03/11/08 01:29	1.0	
035	070a035	X	CMARKER				03/11/08 01:57	1.0	5
036	070a036	X	CCV				03/11/08 02:25	1.0	6
037	070a037	CCV	MO_500				03/11/08 02:53	1.0	3
038	070a038	CCV	DSL_500				03/11/08 03:21	1.0	6
039	070a039	X	CCV				03/11/08 03:49	1.0	3
040	070a040	SAMPLE	201781-003		Soil	135756	03/11/08 04:17	1.0	
041	070a041	SAMPLE	201781-004		Soil	135756	03/11/08 04:45	1.0	
042	070a042	SAMPLE	201781-005		Soil	135756	03/11/08 05:12	1.0	
043	070a043	SAMPLE	201781-006		Soil	135756	03/11/08 05:40	1.0	
044	070a044	SAMPLE	201781-007		Soil	135756	03/11/08 06:08	1.0	
045	070a045	SAMPLE	201781-001		Soil	135756	03/11/08 06:36	1.0	
046	070a046	MSS	201704-003		Soil	135756	03/11/08 07:04	1.0	
047	070a047	SAMPLE	201765-001		Soil	135756	03/11/08 07:32	1.0	
048	070a048	SAMPLE	201704-004		Soil	135756	03/11/08 08:00	1.0	
049	070a049	X	IB				03/11/08 08:28	1.0	
050	070a050	SAMPLE	201781-002		Soil	135756	03/11/08 08:56	1.0	
051	070a051	X	CMARKER				03/11/08 09:24	1.0	5
052	070a052	CCV	DSL_250				03/11/08 09:52	1.0	2

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868101345

Instrument : GC26A
Method : EPA 8015B

Begun : 03/10/08 09:05
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	070a053	CCV	MO_500				03/11/08 10:20	1.0	3	
054	070a054	X	CCV				03/11/08 10:48	1.0	2	
055	070a055	X	CCV				03/11/08 11:16	1.0	3	

Standards used: 1=S8067 2=S8077 3=S8071 4=S8079 5=S8590 6=S8078

SAMPLE PREPARATION SUMMARY

Batch # : 135756
Started By : JJB
Method : 3550B
Spike #1 ID : S8587

Prep Date : 09-MAR-2008

Spike #2 ID : S8463

Analysis : TEH
Finished By : JJB
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
201704-001		Soil	50.43	5	1	0.09915		1				TEH	
201704-002		Soil	50.21	5	1	0.09958		1				(rebatched)	
201704-003		Soil	50.03	5	1	0.09994		1				TEH	mss
201704-004		Soil	49.94	5	1	0.1001		1				TEH	
201745-029		Soil	50	5	1	0.1000		1			3630C	TEH	
201745-030		Soil	50	5	1	0.1000		1			3630C	TEH	
201745-031		Soil	50	5	1	0.1000		1			3630C	TEH	
201745-032		Soil	50	5	1	0.1000		1			3630C	TEH	
201748-001		Soil	50.12	5	1	0.09976		1			3630C	TEHM	
201748-002		Soil	50.37	5	1	0.09927		1			3630C	TEHM	
201765-001		Soil	50.07	5	1	0.09986		1				TEHM	
201781-001		Soil	50.05	5	1	0.0999		1				TEHM	
201781-002		Soil	50.32	5	1	0.09936		1				TEHM	
201781-003		Soil	50.07	5	1	0.09986		1				TEHM	
201781-004		Soil	50.06	5	1	0.09988		1				TEHM	
201781-005		Soil	50.2	5	1	0.0996		1				TEHM	
201781-006		Soil	50.31	5	1	0.09938		1				TEHM	
201781-007		Soil	50.1	5	1	0.0998		1				TEHM	
201781-008		Soil	50.37	5	1	0.09927		1				TEHM	
201781-009		Soil	50.08	5	1	0.09984		1				TEHM	
QC431977	BLANK	Soil	50.12	5	1	0.09976		1			3630C		
QC431978	LCS	Soil	50.41	5	1	0.09919		1	1		3630C		
QC431979	MS	Soil	49.98	5	1	0.1000		1	1				
QC431980	MSD	Soil	49.97	5	1	0.1001		1	1				

Analyst: JDG Date: 03/12/08 Reviewer: LH Date: 03/12/08

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2628 Page 85

LIMS Batch No: 135756
LIMS Analysis TEH/m
Date Extracted: 3/9/08

Extraction Method:
☐ Shaker Table
☒ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	201704-001 A	50.43	5.0		
	2	50.21			
	3	50.03			MSS
	4	49.94			
5	~~X~~ 201745-029	50.00		X	
	30	50.00			
	31	50.00			
	32	50.00			
	201748-001 G	50.12		X	
10	2	50.37		X	
	201765-001A	50.07			
	201781-001B	50.05			
	2	50.32			
	3	50.07			
15	4	50.06			
	5	50.20			
	6	50.31			
	7	50.10			
	8	50.37			
20	9	50.08			
	MB QC 431977	50.8		X	
	LCS 8	50.41		X	
	MS 9	49.98			
	MSD 80	49.97			
					JJB 3/9/08

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47281748	JJB 3/9/08
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47281804	
1.0 mL of Surrogate solution was added to all samples	58587A	
1.0 mL of Matrix Spiking solution was added to all spikes	58463C	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM48028	
Acetone	EM47142	
Samples were: ☒ sonicated 3 times ☐ placed on shaker table at:	V	
taken off shaker table at:	NA	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47281804	
Concentrated to volumes as noted above	V	
Relinquished to TEH Department	V	

3/9/08
Extraction Chemist / Date

Continued from page _____
Continued on page _____

3/11/08
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: JSB
Cleanup Date: 3/9/08

Benchbook # **BK 2679**
Page 26

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
201745-029	135756	1.0	1.0	
30	↓	↓	↓	
31				
32				
201748-001				
2				
MBQC431977				
LCS 8				
			JSB 3/9/08	

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ~ g columns	MB	JSB 3/9/08
☐ Extracts were cleaned up using 1.0 g cartridges	SP [redacted] 9/17	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	FM418028	
Concentrated to volumes as noted above	✓	

3/9/08
Extraction Chemist / Date

Continued from page /
Continued on page /

3/11/08
Reviewed by / Date

Project SOIL ALIQUOT BK2627

Continued from Page 143

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
201722-014A	30.11	HGB		
↓ 15	30.06	↓		
↓ 16 ↓	30.18			
				KR 3/6/08
201737-001A	50.37	TEHM		
201743-001G	49.72			
002 ↓	49.85			
003H	50.05			MSS
004	50.23			
005	50.48			
006	49.96			
007	49.75			
008	50.49			
009	49.58			
010 ↓	49.52			
MB	49.59			EM47281718
LCS	49.94			↓
MS	49.95			201743-003H
MSD	49.82	↓		↓
				MJD 3/6/08
201721-001A	30.25	PCB		
002	30.37			
003	30.30			
004	30.28			MSS
005	30.48			
MB	30.20			EM47281748
LCS	30.04			↓
MS	30.35			201721-004A
MSD	30.25			↓
				SFL 3/7/08
201677-004E KB 3/7/08 D	50.11	TEHM		
				CLP 3/7/08
201748-001G	50.12	TEHM	135756	
↓ 2 ↓	50.37	↓	↓	
201748-001G	30.25	8270-SIM		
↓ 2 ↓	30.05	↓		

Continued on Page

KR — Signed

3/7/08 — Date

Read and Understood By

Signed

Date

Project SOIL ALIQUOT BK 2627 145

Continued from Page —

SAMPLE ID		WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
201758-001	A	30.03	8100		
	2	30.09			
	3	30.16			
	4	30.23			
201758-001	A	30.06	8081		
	2	30.02			
	3	30.29			
	4	30.31			
201781-001	B	30.35	8270		
	2	30.09			
	3	30.09			
	4	30.09			
	5	30.47			
	6	30.05			
	7	30.07			
	8	30.04			
	9	30.13			
	10	30.31			
	11	30.08			
201781-001	B	50.05	TPHM	135756	
	2	50.32			
	3	50.07			
	4	50.06			
	5	50.20			
	6	50.31			
	7	50.10			
	8	50.37			
	9	50.08			
	10	50.04			
	11	50.25			
201781-001	B	30.42	PCB		
	2	30.07			
	3	30.05			
	4	30.08			
	5	30.00			
	6	30.06			

Continued on Page 146

Signed — Date 3/7/08 — Read and Understood By — Signed — Date

Project SOIL ALIQUOT BK2627

Continued from Page 145

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
201781-007B	30.28	PCB		
8	30.05			
9	30.34			
10	30.12			
11	30.14			
				VR 3/7/08
201722-013A	30.02	PCB		mss
MB	30.03			EM47281748
LCS	30.20			201722-013A
MS	30.31			
MSD	30.07			
201617-008	30.17	8270		mss; Aliased 201606-038A
MB	30.20			EM47281748
LCS	30.46			201617-008
MS	30.19			
MSD	30.18			MFC 3/9/08
201704-001A	50.43	TEHM	135756	
2	50.21			
3	50.03			MSS
4	49.94			
201745-029	50.00			COMP 13,14,15,16 @ 12.5g EACH
30	50.00			COMP 17,18,19,20 @ 12.5g EACH
31	50.00			COMP 21,22,23,24 @ 12.5g EACH
32	50.00			COMP 25,26,27,28 @ 12.5g EACH
201765-001A	50.07			
MB	50.12			EM47281748
LCS	50.41			201704-003A
MS	49.98			
MSD	49.97			JJB 3/9/08

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Curtis & Tompkins, Ltd.

Volatile Organics Data (EPA 5035 Soil)

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX305[6.0]	Diln Fac:	0.7143
Lab ID:	201748-001	Batch#:	135692
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/07/08

Moisture: 15%

Analyte	Result	RL	MDL
Freon 12	ND	8.4	0.45
Chloromethane	ND	8.4	0.53
Vinyl Chloride	ND	8.4	0.47
Bromomethane	ND	8.4	0.37
Chloroethane	ND	8.4	0.38
Trichlorofluoromethane	ND	4.2	0.43
Acetone	4.8 J b	17	0.78
Freon 113	ND	4.2	0.52
1,1-Dichloroethene	ND	4.2	0.37
Methylene Chloride	0.59 J	17	0.34
Carbon Disulfide	ND	4.2	0.42
MTBE	ND	4.2	0.38
trans-1,2-Dichloroethene	ND	4.2	0.34
Vinyl Acetate	ND	42	0.30
1,1-Dichloroethane	ND	4.2	0.32
2-Butanone	1.3 J b	8.4	0.42
cis-1,2-Dichloroethene	ND	4.2	0.34
2,2-Dichloropropane	ND	4.2	0.32
Chloroform	ND	4.2	0.31
Bromochloromethane	ND	4.2	0.20
1,1,1-Trichloroethane	ND	4.2	0.29
1,1-Dichloropropene	ND	4.2	0.30
Carbon Tetrachloride	ND	4.2	0.34
1,2-Dichloroethane	ND	4.2	0.31
Benzene	ND	4.2	0.26
Trichloroethene	ND	4.2	0.36
1,2-Dichloropropane	ND	4.2	0.33
Bromodichloromethane	ND	4.2	0.34
Dibromomethane	ND	4.2	0.30
4-Methyl-2-Pentanone	ND	8.4	0.21
cis-1,3-Dichloropropene	ND	4.2	0.26
Toluene	ND	4.2	0.35
trans-1,3-Dichloropropene	ND	4.2	0.22
1,1,2-Trichloroethane	ND	4.2	0.34
2-Hexanone	ND	8.4	0.36
1,3-Dichloropropane	ND	4.2	0.24
Tetrachloroethene	ND	4.2	0.42
Dibromochloromethane	ND	4.2	0.26
1,2-Dibromoethane	ND	4.2	0.20
Chlorobenzene	ND	4.2	0.23
1,1,1,2-Tetrachloroethane	ND	4.2	0.30
Ethylbenzene	ND	4.2	0.34
m,p-Xylenes	ND	4.2	0.78
o-Xylene	ND	4.2	0.43
Styrene	ND	4.2	0.39
Bromoform	ND	4.2	0.17
Isopropylbenzene	ND	4.2	0.51
1,1,2,2-Tetrachloroethane	ND	4.2	0.23
1,2,3-Trichloropropane	ND	4.2	0.37

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.1

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX305[6.0]	Diln Fac:	0.7143
Lab ID:	201748-001	Batch#:	135692
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/07/08

Analyte	Result	RL	MDL
Propylbenzene	ND	4.2	0.54
Bromobenzene	ND	4.2	0.35
1,3,5-Trimethylbenzene	ND	4.2	0.56
2-Chlorotoluene	ND	4.2	0.48
4-Chlorotoluene	ND	4.2	0.28
tert-Butylbenzene	ND	4.2	0.66
1,2,4-Trimethylbenzene	ND	4.2	0.44
sec-Butylbenzene	ND	4.2	0.76
para-Isopropyl Toluene	ND	4.2	0.65
1,3-Dichlorobenzene	ND	4.2	0.46
1,4-Dichlorobenzene	ND	4.2	0.38
n-Butylbenzene	ND	4.2	0.68
1,2-Dichlorobenzene	ND	4.2	0.32
1,2-Dibromo-3-Chloropropane	ND	4.2	0.51
1,2,4-Trichlorobenzene	ND	4.2	0.52
Hexachlorobutadiene	ND	4.2	0.75
Naphthalene	ND	4.2	0.40
1,2,3-Trichlorobenzene	ND	4.2	0.48

Surrogate	%REC	Limits
Dibromofluoromethane	102	78-126
1,2-Dichloroethane-d4	100	76-137
Toluene-d8	108	80-120
Bromofluorobenzene	104	80-121

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX306[6.0]	Diln Fac:	0.7692
Lab ID:	201748-002	Batch#:	135692
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/07/08

Moisture: 20%

Analyte	Result	RL	MDL
Freon 12	ND	9.6	0.52
Chloromethane	ND	9.6	0.61
Vinyl Chloride	ND	9.6	0.53
Bromomethane	ND	9.6	0.42
Chloroethane	ND	9.6	0.44
Trichlorofluoromethane	ND	4.8	0.49
Acetone	3.3 J b	19	0.89
Freon 113	ND	4.8	0.59
1,1-Dichloroethene	ND	4.8	0.42
Methylene Chloride	0.70 J	19	0.39
Carbon Disulfide	ND	4.8	0.49
MTBE	ND	4.8	0.43
trans-1,2-Dichloroethene	ND	4.8	0.39
Vinyl Acetate	ND	48	0.35
1,1-Dichloroethane	ND	4.8	0.36
2-Butanone	ND	9.6	0.48
cis-1,2-Dichloroethene	ND	4.8	0.39
2,2-Dichloropropane	ND	4.8	0.36
Chloroform	ND	4.8	0.35
Bromochloromethane	ND	4.8	0.23
1,1,1-Trichloroethane	ND	4.8	0.33
1,1-Dichloropropene	ND	4.8	0.35
Carbon Tetrachloride	ND	4.8	0.39
1,2-Dichloroethane	ND	4.8	0.36
Benzene	ND	4.8	0.29
Trichloroethene	ND	4.8	0.41
1,2-Dichloropropane	ND	4.8	0.38
Bromodichloromethane	ND	4.8	0.39
Dibromomethane	ND	4.8	0.34
4-Methyl-2-Pentanone	ND	9.6	0.24
cis-1,3-Dichloropropene	ND	4.8	0.30
Toluene	ND	4.8	0.40
trans-1,3-Dichloropropene	ND	4.8	0.25
1,1,2-Trichloroethane	ND	4.8	0.38
2-Hexanone	ND	9.6	0.41
1,3-Dichloropropane	ND	4.8	0.27
Tetrachloroethene	ND	4.8	0.48
Dibromochloromethane	ND	4.8	0.30
1,2-Dibromoethane	ND	4.8	0.22
Chlorobenzene	ND	4.8	0.27
1,1,1,2-Tetrachloroethane	ND	4.8	0.34
Ethylbenzene	ND	4.8	0.39
m,p-Xylenes	ND	4.8	0.89
o-Xylene	ND	4.8	0.49
Styrene	ND	4.8	0.45
Bromoform	ND	4.8	0.19
Isopropylbenzene	ND	4.8	0.58
1,1,2,2-Tetrachloroethane	ND	4.8	0.26
1,2,3-Trichloropropane	ND	4.8	0.42

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX306[6.0]	Diln Fac:	0.7692
Lab ID:	201748-002	Batch#:	135692
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	dry	Analyzed:	03/07/08

Analyte	Result	RL	MDL
Propylbenzene	ND	4.8	0.62
Bromobenzene	ND	4.8	0.40
1,3,5-Trimethylbenzene	ND	4.8	0.64
2-Chlorotoluene	ND	4.8	0.55
4-Chlorotoluene	ND	4.8	0.31
tert-Butylbenzene	ND	4.8	0.76
1,2,4-Trimethylbenzene	ND	4.8	0.51
sec-Butylbenzene	ND	4.8	0.87
para-Isopropyl Toluene	ND	4.8	0.75
1,3-Dichlorobenzene	ND	4.8	0.53
1,4-Dichlorobenzene	ND	4.8	0.44
n-Butylbenzene	ND	4.8	0.78
1,2-Dichlorobenzene	ND	4.8	0.36
1,2-Dibromo-3-Chloropropane	ND	4.8	0.59
1,2,4-Trichlorobenzene	ND	4.8	0.60
Hexachlorobutadiene	ND	4.8	0.85
Naphthalene	ND	4.8	0.46
1,2,3-Trichlorobenzene	ND	4.8	0.55

Surrogate	%REC	Limits
Dibromofluoromethane	101	78-126
1,2-Dichloroethane-d4	101	76-137
Toluene-d8	106	80-120
Bromofluorobenzene	104	80-121

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC431727	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135692
Units:	ug/Kg	Analyzed:	03/07/08

Analyte	Result	RL	MDL
Freon 12	ND	10	0.54
Chloromethane	ND	10	0.63
Vinyl Chloride	ND	10	0.56
Bromomethane	ND	10	0.44
Chloroethane	ND	10	0.46
Trichlorofluoromethane	ND	5.0	0.51
Acetone	1.8 J b	20	0.92
Freon 113	ND	5.0	0.61
1,1-Dichloroethene	ND	5.0	0.44
Methylene Chloride	0.41 J	20	0.41
Carbon Disulfide	ND	5.0	0.51
MTBE	ND	5.0	0.45
trans-1,2-Dichloroethene	ND	5.0	0.41
Vinyl Acetate	ND	50	0.36
1,1-Dichloroethane	ND	5.0	0.38
2-Butanone	ND	10	0.50
cis-1,2-Dichloroethene	ND	5.0	0.40
2,2-Dichloropropane	ND	5.0	0.38
Chloroform	ND	5.0	0.37
Bromochloromethane	ND	5.0	0.24
1,1,1-Trichloroethane	ND	5.0	0.34
1,1-Dichloropropene	ND	5.0	0.36
Carbon Tetrachloride	ND	5.0	0.41
1,2-Dichloroethane	ND	5.0	0.37
Benzene	ND	5.0	0.30
Trichloroethene	ND	5.0	0.43
1,2-Dichloropropane	ND	5.0	0.40
Bromodichloromethane	ND	5.0	0.40
Dibromomethane	ND	5.0	0.35
4-Methyl-2-Pentanone	ND	10	0.25
cis-1,3-Dichloropropene	ND	5.0	0.32
Toluene	ND	5.0	0.41
trans-1,3-Dichloropropene	ND	5.0	0.26
1,1,2-Trichloroethane	ND	5.0	0.40
2-Hexanone	ND	10	0.43
1,3-Dichloropropane	ND	5.0	0.29
Tetrachloroethene	ND	5.0	0.50
Dibromochloromethane	ND	5.0	0.31
1,2-Dibromoethane	ND	5.0	0.23
Chlorobenzene	ND	5.0	0.28
1,1,1,2-Tetrachloroethane	ND	5.0	0.36
Ethylbenzene	ND	5.0	0.40
m,p-Xylenes	ND	5.0	0.93
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.47
Bromoform	ND	5.0	0.20
Isopropylbenzene	ND	5.0	0.60
1,1,2,2-Tetrachloroethane	ND	5.0	0.27
1,2,3-Trichloropropane	ND	5.0	0.44
Propylbenzene	ND	5.0	0.65
Bromobenzene	ND	5.0	0.41

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC431727	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135692
Units:	ug/Kg	Analyzed:	03/07/08

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	5.0	0.67
2-Chlorotoluene	ND	5.0	0.57
4-Chlorotoluene	ND	5.0	0.33
tert-Butylbenzene	ND	5.0	0.79
1,2,4-Trimethylbenzene	ND	5.0	0.53
sec-Butylbenzene	ND	5.0	0.90
para-Isopropyl Toluene	ND	5.0	0.78
1,3-Dichlorobenzene	ND	5.0	0.55
1,4-Dichlorobenzene	ND	5.0	0.45
n-Butylbenzene	ND	5.0	0.81
1,2-Dichlorobenzene	ND	5.0	0.37
1,2-Dibromo-3-Chloropropane	ND	5.0	0.61
1,2,4-Trichlorobenzene	ND	5.0	0.62
Hexachlorobutadiene	ND	5.0	0.89
Naphthalene	ND	5.0	0.48
1,2,3-Trichlorobenzene	ND	5.0	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	102	78-126
1,2-Dichloroethane-d4	107	76-137
Toluene-d8	106	80-120
Bromofluorobenzene	105	80-121

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC431728	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135692
Units:	ug/Kg	Analyzed:	03/07/08

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	29.64	119	71-133
Benzene	25.00	27.40	110	79-123
Trichloroethene	25.00	27.38	110	79-124
Toluene	25.00	27.33	109	80-123
Chlorobenzene	25.00	26.19	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	78-126
1,2-Dichloroethane-d4	101	76-137
Toluene-d8	104	80-120
Bromofluorobenzene	101	80-121

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9804
MSS Lab ID:	201745-029	Batch#:	135692
Matrix:	Soil	Sampled:	03/06/08
Units:	ug/Kg	Received:	03/06/08
Basis:	as received	Analyzed:	03/07/08

Type: MS Lab ID: QC431830

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4287	49.02	43.50	89	55-139
Benzene	<0.2988	49.02	33.49	68	55-120
Trichloroethene	<0.4220	49.02	34.52	70	47-140
Toluene	<0.4049	49.02	32.33	66	52-121
Chlorobenzene	<0.2737	49.02	24.90	51	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	107	78-126
1,2-Dichloroethane-d4	109	76-137
Toluene-d8	106	80-120
Bromofluorobenzene	102	80-121

Type: MSD Lab ID: QC431831

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.02	42.14	86	55-139	3	29
Benzene	49.02	35.03	71	55-120	5	26
Trichloroethene	49.02	35.14	72	47-140	2	28
Toluene	49.02	33.43	68	52-121	3	29
Chlorobenzene	49.02	28.13	57	47-120	12	29

Surrogate	%REC	Limits
Dibromofluoromethane	106	78-126
1,2-Dichloroethane-d4	106	76-137
Toluene-d8	107	80-120
Bromofluorobenzene	100	80-121

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 201748 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 888085442012 File : lbs12 Time : 28-FEB-2008 12:45

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	4490	19.31	
75	30% - 60% of mass 95	11656	50.13	
95		23252		
96	5% - 9% of mass 95	1740	7.48	
173	< 2% of mass 174	194	1.06	
174	> 50% and < 100% of mass 95	18270	78.57	
175	5% - 9% of mass 174	1420	7.77	
176	> 95% and < 101% of mass 174	17465	95.59	
177	5% - 9% of mass 176	1298	7.43	

Analyst: BO Date: 02/29/08 Reviewer: LW Date: 03/03/08

888085442012

CURTIS & TOMPKINS BFB TUNE FOR 201748 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 888097070002 File : lc702 Time : 07-MAR-2008 10:46

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	5986	20.64	
75	30% - 60% of mass 95	14857	51.23	
95		29000		
96	5% - 9% of mass 95	1991	6.87	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	21304	73.46	
175	5% - 9% of mass 174	1598	7.50	
176	> 95% and < 101% of mass 174	21080	98.95	
177	5% - 9% of mass 176	1251	5.93	

WNH: 03/10/08 EAH: 03/10/08 LW: 03/10/08

888097070002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 MSVOA Soil: EPA 8260B

Inst : MSVOA12
Calnum : 888085442001
Units : ug/L

Name : 8260GX12
Date : 28-FEB-2008 15:29
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	lbs16	888085442016	2.5PPB	28-FEB-2008 15:29	S8368 (200000X), S8294 (200000X), S8073 (5000X)
L2	lbs17	888085442017	5PPB	28-FEB-2008 16:02	S8368 (100000X), S8294 (100000X), S8073 (5000X)
L3	lbs18	888085442018	10PPB	28-FEB-2008 16:34	S8368 (50000X), S8294 (50000X), S8073 (5000X)
L4	lbs19	888085442019	20PPB	28-FEB-2008 17:06	S8368 (25000X), S8294 (25000X), S8073 (5000X)
L5	lbs20	888085442020	50PPB	28-FEB-2008 17:38	S8368 (10000X), S8294 (10000X), S8073 (5000X)
L6	lbs21	888085442021	60PPB	28-FEB-2008 18:10	S8368 (8333X), S8294 (8333X), S8073 (5000X)
L7	lbs22	888085442022	75PPB	28-FEB-2008 18:43	S8368 (6667X), S8294 (6667X), S8073 (5000X)
L8	lbs23	888085442023	100PPB	28-FEB-2008 19:15	S8368 (5000X), S8294 (5000X), S8073 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	1.3762	0.7574	1.2431	1.1168	1.3754	1.2451	1.2220		LINR	0.82189	0.78215		1.1908	0.993	15	0.05	0.99	
Chloromethane		1.4944	1.6320	1.4511	1.6348	1.5098	1.4272	1.4224	AVRG		0.66215		1.5102	6	15	0.10	0.99	
Vinyl Chloride	1.6243	1.1107	1.4454	1.2788	1.5564	1.4338	1.3686	1.3348	AVRG		0.71732		1.3941	12	15	0.05	0.99	
Bromomethane		0.7606	0.7576	0.6901	0.7970	0.7703	0.6977	0.7187	AVRG		1.34821		0.7417	5	15	0.05	0.99	
Chloroethane		0.7675	0.8392	0.7535	0.8773	0.8137	0.7656	0.7589	AVRG		1.25545		0.7965	6	15	0.05	0.99	
Trichlorofluoromethane	1.4154	0.7776	1.1987	1.1257	1.3880	1.2406	1.2687	1.2467	LINR	0.65468	0.78223		1.2077	0.996	15	0.05	0.99	
Acetone				0.2416	0.2563	0.2337	0.1914	0.1992	AVRG		4.45531		0.2245	12	15	0.05	0.99	
Freon 113	0.6344	0.2949	0.6003	0.5158	0.6152	0.6984			QUAD	0.03600	2.05590	-0.01472	0.5598	0.997	15	0.05	0.99	
1,1-Dichloroethene		0.4294	0.5508	0.5186	0.5821	0.6201	0.5677	0.5680	AVRG		1.82445		0.5481	11	15	0.05	0.99	
Methylene Chloride		0.8268	0.7412	0.7196	0.7355	0.7127	0.6686	0.7000	AVRG		1.37135		0.7292	7	15	0.05	0.99	
Carbon Disulfide		1.9474	2.3254	2.1752	2.4101	2.4573	2.2498	2.2581	AVRG		0.44239		2.2605	7	15	0.05	0.99	
MTBE		2.1105	1.9513	1.9146	1.9571	1.8983	1.7305	1.8474	AVRG		0.52201		1.9157	6	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6354	0.6521	0.6210	0.6539	0.6455	0.6000	0.6231	AVRG		1.57979		0.6330	3	15	0.05	0.99	
Vinyl Acetate		1.2765	1.1964	1.2395	1.2836	1.2361	1.1688	1.2435	AVRG		0.80978		1.2349	3	15	0.05	0.99	
1,1-Dichloroethane		1.2375	1.3187	1.2509	1.3333	1.3053	1.2239	1.3135	AVRG		0.77923		1.2833	3	15	0.10	0.99	
2-Butanone		0.4034	0.3401	0.3177	0.3410	0.3131	0.2725	0.2969	AVRG		3.06401		0.3264	13	15	0.05	0.99	
2,2-Dichloropropane		0.9511	1.1160	1.0445	1.1234	1.1406	1.0269	1.0302	AVRG		0.94179		1.0618	6	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6756	0.6776	0.6552	0.6946	0.6833	0.6374	0.6860	AVRG		1.48631		0.6728	3	15	0.05	0.99	
Chloroform		1.0891	1.1150	1.0870	1.1488	1.1265	1.0482	1.1090	AVRG		0.90630		1.1034	3	15	0.05	0.99	
Bromochloromethane		0.3099	0.2983	0.2933	0.3228	0.3210	0.2948	0.3191	AVRG		3.24227		0.3084	4	15	0.05	0.99	
1,1,1-Trichloroethane		0.8153	0.9773	0.9364	1.0219	1.0641	0.9525	0.9496	AVRG		1.04209		0.9596	8	15	0.05	0.99	
1,1-Dichloropropene		0.5072	0.6585	0.6092	0.6433	0.6787	0.6140	0.5928	AVRG		1.62654		0.6148	9	15	0.05	0.99	
Carbon Tetrachloride		0.4081	0.5661	0.5139	0.5701	0.6045	0.5449	0.5243	AVRG		1.87568		0.5331	12	15	0.05	0.99	
1,2-Dichloroethane		0.5832	0.5737	0.5657	0.5734	0.5575	0.5243	0.5564	AVRG		1.77930		0.5620	3	15	0.05	0.99	
Benzene		1.8548	1.9306	1.8787	1.9318	1.8906	1.7714	1.8044	AVRG		0.53590		1.8660	3	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4037	0.4576	0.4459	0.4662	0.4647	0.4267	0.4265	AVRG		2.26450		0.4416	5	15	0.05	0.99	
1,2-Dichloropropane		0.4738	0.4726	0.4729	0.4871	0.4689	0.4448	0.4608	AVRG		2.13353		0.4687	3	15	0.05	0.99	
Bromodichloromethane		0.5623	0.5556	0.5586	0.5631	0.5440	0.5186	0.5448	AVRG		1.81956		0.5496	3	15	0.05	0.99	
Dibromomethane		0.2186	0.2119	0.2153	0.2173	0.2134	0.1992	0.2127	AVRG		4.70276		0.2126	3	15	0.05	0.99	
4-Methyl-2-Pentanone		0.5854	0.5257	0.5191	0.5319	0.5123	0.4725	0.4985	AVRG		1.92026		0.5208	7	15	0.05	0.99	
cis-1,3-Dichloropropene		0.7503	0.7311	0.7350	0.7510	0.7285	0.6720	0.7149	AVRG		1.37723		0.7261	4	15	0.05	0.99	
Toluene		1.2947	1.3538	1.2655	1.3401	1.3404	1.2345	1.2272	AVRG		0.77295		1.2937	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.7102	0.6974	0.6769	0.6976	0.6811	0.6411	0.6708	AVRG		1.46594		0.6822	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.1986	0.1884	0.1824	0.1872	0.1800	0.1703	0.1791	AVRG		5.44334		0.1837	5	15	0.05	0.99	
2-Hexanone		0.4620	0.3997	0.4059	0.4197	0.3899	0.3529	0.3801	AVRG		2.49091		0.4015	8	15	0.05	0.99	
1,3-Dichloropropane		0.7185	0.6757	0.6978	0.7133	0.6752	0.6298	0.6632	AVRG		1.46640		0.6819	5	15	0.05	0.99	
Tetrachloroethene		0.3931	0.5174	0.4798	0.5390	0.5411	0.4842	0.4586	AVRG		2.05084		0.4876	11	15	0.05	0.99	
Dibromochloromethane		0.4064	0.3765	0.3952	0.4181	0.3994	0.3739	0.4006	AVRG		2.52700		0.3957	4	15	0.05	0.99	
1,2-Dibromoethane		0.3452	0.3256	0.3231	0.3327	0.3292	0.3071	0.3304	AVRG		3.05238		0.3276	4	15	0.05	0.99	
Chlorobenzene		1.5128	1.5162	1.5154	1.6007	1.5378	1.4346	1.4595	AVRG		0.66182		1.5110	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4958	0.4922	0.4849	0.5109	0.4880	0.4560	0.4764	AVRG		2.05629		0.4863	4	15	0.05	0.99	
Ethylbenzene		2.6988	2.8819	2.7902	2.9855	2.9383	2.6876	2.6283	AVRG		0.35695		2.8015	5	15	0.05	0.99	
m,p-Xylenes	1.2817	1.0989	1.1389	1.1256	1.2194	1.1979	1.1020	1.0894	AVRG		0.86451		1.1567	6	15	0.05	0.99	
o-Xylene		1.0858	1.1107	1.1166	1.1961	1.1693	1.0758	1.0934	AVRG		0.89198		1.1211	4	15	0.05	0.99	
Styrene		1.8771	1.8506	1.8379	1.9824	1.9004	1.7889	1.8261	AVRG		0.53584		1.8662	3	15	0.05	0.99	
Bromoform		0.2783	0.2679	0.2859	0.3018	0.2915	0.2782	0.2953	AVRG		3.50188		0.2856	4	15	0.10	0.99	
Isopropylbenzene		4.2878	5.0173	4.7781	5.1055	5.1358	4.5225	4.4859	AVRG		0.21000		4.7619	7	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9834	0.9169	0.9256	0.9473	0.8990	0.8300	0.8943	AVRG		1.09435		0.9138	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.0238	0.9806	0.9780	1.0112	0.9617	0.8885	0.9523	AVRG		1.03001		0.9709	5	15	0.05	0.99	
Propylbenzene		5.3196	6.2539	5.9060	6.3299	6.3636	5.5749	5.4150	AVRG		0.17006		5.8804	8	15	0.05	0.99	
Bromobenzene		1.1129	1.0734	1.0748	1.1267	1.0695	0.9944	1.0448	AVRG		0.93376		1.0709	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		4.0848	4.4360	4.3058	4.5874	4.5522	4.0857	4.0503	AVRG		0.23254		4.3003	5	15	0.05	0.99	
2-Chlorotoluene		3.9989	4.1454	4.0571	4.2226	4.0846	3.7165	3.7608	AVRG		0.25013		3.9980	5	15	0.05	0.99	
4-Chlorotoluene		3.8002	3.8101	3.6966	3.8796	3.7144	3.3875	3.4177	AVRG		0.27231		3.6723	5	15	0.05	0.99	
tert-Butylbenzene		3.0991	3.9034	3.6311	3.9888	4.0595	3.5740	3.4566	AVRG		0.27224		3.6732	9	15	0.05	0.99	
1,2,4-Trimethylbenzene		4.3686	4.4845	4.3760	4.6206	4.5136	4.0885	4.0705	AVRG		0.22934		4.3603	5	15	0.05	0.99	
sec-Butylbenzene		4.3696	5.8166	5.3049	5.9196	6.1307	5.2921	5.0447	AVRG		0.18480		5.4112	11	15	0.05	0.99	
para-Isopropyl Toluene		4.0722	5.0202	4.6425	5.1362	5.2202	4.5789	4.3981	AVRG		0.21168		4.7240	9	15	0.05	0.99	
1,3-Dichlorobenzene		2.3135	2.3145	2.2602	2.3776	2.2604	2.0857	2.1295	AVRG		0.44469		2.2488	5	15	0.05	0.99	
1,4-Dichlorobenzene		2.3935	2.3156	2.2877	2.4151	2.2877	2.1057	2.1625	AVRG		0.43838		2.2811	5	15	0.05	0.99	
n-Butylbenzene		3.7739	4.8225	4.3913	4.8920	5.0190	4.3418	4.1416	AVRG		0.22306		4.4831	10	15	0.05	0.99	
1,2-Dichlorobenzene		2.1305	2.0848	2.0544	2.1528	2.0739	1.8935	1.9535	AVRG		0.48803		2.0491	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2661	0.2386	0.2326	0.2374	0.2266	0.2000	0.2182	AVRG		4.32255		0.2313	9	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.5821	1.5593	1.5574	1.6818	1.6090	1.4729	1.4902	AVRG		0.63911		1.5647	5	15	0.05	0.99	
Hexachlorobutadiene		0.6665	0.9518	0.8584	0.9920	1.0493	0.8998	0.8865	AVRG		1.11035		0.9006	14	15	0.05	0.99	
Naphthalene		2.9807	3.0510	3.1825	3.4387	3.3124	3.0212	3.2029	AVRG		0.31547		3.1699	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		1.3800	1.4127	1.4141	1.5117	1.4507	1.3299	1.3774	AVRG		0.70875		1.4109	4	15	0.05	0.99	
Dibromofluoromethane					0.4184				AVRG		2.39031		0.4184	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.3496				AVRG		2.86021		0.3496	0	15	0.05	0.99	
Trifluorotoluene	0.8543	0.5426	0.8200	0.7408	0.8171	0.8735	0.7713	0.7121	AVRG		1.30471		0.7665	14	15	0.05	0.99	
Toluene-d8					1.2307				AVRG		0.81256		1.2307	0	15	0.05	0.99	
Bromofluorobenzene					0.9479				AVRG		1.05498		0.9479	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12	2.500	41	5.000	-24	10.00	5	20.00	-9	50.00	9	60.00	-1	75.00	-3		
Chloromethane			5.000	-1	10.00	8	20.00	-4	50.00	8	60.00	0	75.00	-5	100.0	-6
Vinyl Chloride	2.500	17	5.000	-20	10.00	4	20.00	-8	50.00	12	60.00	3	75.00	-2	100.0	-4
Bromomethane			5.000	3	10.00	2	20.00	-7	50.00	7	60.00	4	75.00	-6	100.0	-3
Chloroethane			5.000	-4	10.00	5	20.00	-5	50.00	10	60.00	2	75.00	-4	100.0	-5
Trichlorofluoromethane	2.500	37	5.000	-26	10.00	0	20.00	-9	50.00	10	60.00	-2	75.00	0	100.0	-2
Acetone							20.00	8	50.00	14	60.00	4	75.00	-15	100.0	-11
Freon 113	2.500	30	5.000	-39	10.00	18	20.00	-2	50.00	-1	60.00	1				
1,1-Dichloroethene			5.000	-22	10.00	0	20.00	-5	50.00	6	60.00	13	75.00	4	100.0	4
Methylene Chloride			5.000	13	10.00	2	20.00	-1	50.00	1	60.00	-2	75.00	-8	100.0	-4
Carbon Disulfide			5.000	-14	10.00	3	20.00	-4	50.00	7	60.00	9	75.00	0	100.0	0
MTBE			5.000	10	10.00	2	20.00	0	50.00	2	60.00	-1	75.00	-10	100.0	-4
trans-1,2-Dichloroethene			5.000	0	10.00	3	20.00	-2	50.00	3	60.00	2	75.00	-5	100.0	-2
Vinyl Acetate			5.000	3	10.00	-3	20.00	0	50.00	4	60.00	0	75.00	-5	100.0	1
1,1-Dichloroethane			5.000	-4	10.00	3	20.00	-3	50.00	4	60.00	2	75.00	-5	100.0	2
2-Butanone			5.000	24	10.00	4	20.00	-3	50.00	4	60.00	-4	75.00	-17	100.0	-9
2,2-Dichloropropane			5.000	-10	10.00	5	20.00	-2	50.00	6	60.00	7	75.00	-3	100.0	-3
cis-1,2-Dichloroethene			5.000	0	10.00	1	20.00	-3	50.00	3	60.00	2	75.00	-5	100.0	2
Chloroform			5.000	-1	10.00	1	20.00	-1	50.00	4	60.00	2	75.00	-5	100.0	1
Bromochloromethane			5.000	0	10.00	-3	20.00	-5	50.00	5	60.00	4	75.00	-4	100.0	3
1,1,1-Trichloroethane			5.000	-15	10.00	2	20.00	-2	50.00	6	60.00	11	75.00	-1	100.0	-1
1,1-Dichloropropene			5.000	-17	10.00	7	20.00	-1	50.00	5	60.00	10	75.00	0	100.0	-4
Carbon Tetrachloride			5.000	-23	10.00	6	20.00	-4	50.00	7	60.00	13	75.00	2	100.0	-2
1,2-Dichloroethane			5.000	4	10.00	2	20.00	1	50.00	2	60.00	-1	75.00	-7	100.0	-1
Benzene			5.000	-1	10.00	3	20.00	1	50.00	4	60.00	1	75.00	-5	100.0	-3
Trichloroethene			5.000	-9	10.00	4	20.00	1	50.00	6	60.00	5	75.00	-3	100.0	-3
1,2-Dichloropropane			5.000	1	10.00	1	20.00	1	50.00	4	60.00	0	75.00	-5	100.0	-2
Bromodichloromethane			5.000	2	10.00	1	20.00	2	50.00	2	60.00	-1	75.00	-6	100.0	-1
Dibromomethane			5.000	3	10.00	0	20.00	1	50.00	2	60.00	0	75.00	-6	100.0	0
4-Methyl-2-Pentanone			5.000	12	10.00	1	20.00	0	50.00	2	60.00	-2	75.00	-9	100.0	-4
cis-1,3-Dichloropropene			5.000	3	10.00	1	20.00	1	50.00	3	60.00	0	75.00	-7	100.0	-2
Toluene			5.000	0	10.00	5	20.00	-2	50.00	4	60.00	4	75.00	-5	100.0	-5
trans-1,3-Dichloropropene			5.000	4	10.00	2	20.00	-1	50.00	2	60.00	0	75.00	-6	100.0	-2
1,1,2-Trichloroethane			5.000	8	10.00	3	20.00	-1	50.00	2	60.00	-2	75.00	-7	100.0	-3
2-Hexanone			5.000	15	10.00	0	20.00	1	50.00	5	60.00	-3	75.00	-12	100.0	-5
1,3-Dichloropropane			5.000	5	10.00	-1	20.00	2	50.00	5	60.00	-1	75.00	-8	100.0	-3
Tetrachloroethene			5.000	-19	10.00	6	20.00	-2	50.00	11	60.00	11	75.00	-1	100.0	-6
Dibromochloromethane			5.000	3	10.00	-5	20.00	0	50.00	6	60.00	1	75.00	-6	100.0	1
1,2-Dibromoethane			5.000	5	10.00	-1	20.00	-1	50.00	2	60.00	0	75.00	-6	100.0	1
Chlorobenzene			5.000	0	10.00	0	20.00	0	50.00	6	60.00	2	75.00	-5	100.0	-3
1,1,1,2-Tetrachloroethane			5.000	2	10.00	1	20.00	0	50.00	5	60.00	0	75.00	-6	100.0	-2
Ethylbenzene			5.000	-4	10.00	3	20.00	0	50.00	7	60.00	5	75.00	-4	100.0	-6

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	11	10.00	-5	20.00	-2	40.00	-3	100.0	5	120.0	4	150.0	-5	200.0	-6
o-Xylene			5.000	-3	10.00	-1	20.00	0	50.00	7	60.00	4	75.00	-4	100.0	-2
Styrene			5.000	1	10.00	-1	20.00	-2	50.00	6	60.00	2	75.00	-4	100.0	-2
Bromoform			5.000	-3	10.00	-6	20.00	0	50.00	6	60.00	2	75.00	-3	100.0	3
Isopropylbenzene			5.000	-10	10.00	5	20.00	0	50.00	7	60.00	8	75.00	-5	100.0	-6
1,1,2,2-Tetrachloroethane			5.000	8	10.00	0	20.00	1	50.00	4	60.00	-2	75.00	-9	100.0	-2
1,2,3-Trichloropropane			5.000	5	10.00	1	20.00	1	50.00	4	60.00	-1	75.00	-8	100.0	-2
Propylbenzene			5.000	-10	10.00	6	20.00	0	50.00	8	60.00	8	75.00	-5	100.0	-8
Bromobenzene			5.000	4	10.00	0	20.00	0	50.00	5	60.00	0	75.00	-7	100.0	-2
1,3,5-Trimethylbenzene			5.000	-5	10.00	3	20.00	0	50.00	7	60.00	6	75.00	-5	100.0	-6
2-Chlorotoluene			5.000	0	10.00	4	20.00	1	50.00	6	60.00	2	75.00	-7	100.0	-6
4-Chlorotoluene			5.000	3	10.00	4	20.00	1	50.00	6	60.00	1	75.00	-8	100.0	-7
tert-Butylbenzene			5.000	-16	10.00	6	20.00	-1	50.00	9	60.00	11	75.00	-3	100.0	-6
1,2,4-Trimethylbenzene			5.000	0	10.00	3	20.00	0	50.00	6	60.00	4	75.00	-6	100.0	-7
sec-Butylbenzene			5.000	-19	10.00	7	20.00	-2	50.00	9	60.00	13	75.00	-2	100.0	-7
para-Isopropyl Toluene			5.000	-14	10.00	6	20.00	-2	50.00	9	60.00	11	75.00	-3	100.0	-7
1,3-Dichlorobenzene			5.000	3	10.00	3	20.00	1	50.00	6	60.00	1	75.00	-7	100.0	-5
1,4-Dichlorobenzene			5.000	5	10.00	2	20.00	0	50.00	6	60.00	0	75.00	-8	100.0	-5
n-Butylbenzene			5.000	-16	10.00	8	20.00	-2	50.00	9	60.00	12	75.00	-3	100.0	-8
1,2-Dichlorobenzene			5.000	4	10.00	2	20.00	0	50.00	5	60.00	1	75.00	-8	100.0	-5
1,2-Dibromo-3-Chloropropane			5.000	15	10.00	3	20.00	1	50.00	3	60.00	-2	75.00	-14	100.0	-6
1,2,4-Trichlorobenzene			5.000	1	10.00	0	20.00	0	50.00	7	60.00	3	75.00	-6	100.0	-5
Hexachlorobutadiene			5.000	-26	10.00	6	20.00	-5	50.00	10	60.00	17	75.00	0	100.0	-2
Naphthalene			5.000	-6	10.00	-4	20.00	0	50.00	8	60.00	4	75.00	-5	100.0	1
1,2,3-Trichlorobenzene			5.000	-2	10.00	0	20.00	0	50.00	7	60.00	3	75.00	-6	100.0	-2
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene	2.500	11	5.000	-29	10.00	7	20.00	-3	50.00	7	60.00	14	75.00	1	100.0	-7
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 02/29/08 Reviewer: LW Date: 03/03/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

888085442001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201748 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 888085442001 Cal Date : 28-FEB-2008 Type : SOIL

ICV 888085442024 (lbs24 28-FEB-2008) stds: S8297 (10000X), S8073 (5000X)
ICV 888085442025 (lbs25 28-FEB-2008) stds: S8260 (10000X), S8170 (10000X), S8073 (5000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	888085442024	1.1908	0.8264	25.00	16.98	ug/L	**-32**	20	v- ***
Chloromethane	888085442024	1.5102	1.2972	25.00	21.47	ug/L	-14	20	
Vinyl Chloride	888085442024	1.3941	1.2300	25.00	22.06	ug/L	-12	20	
Bromomethane	888085442024	0.7417	0.6439	25.00	21.70	ug/L	-13	20	
Chloroethane	888085442024	0.7965	0.7250	25.00	22.75	ug/L	-9	20	
Trichlorofluoromethane	888085442024	1.2077	1.1707	25.00	23.55	ug/L	-6	20	
Acetone	888085442025	0.2245	0.2814	25.00	31.34	ug/L	25	30	
Freon 113	888085442025	0.5598	0.6099	25.00	27.96	ug/L	12	20	
1,1-Dichloroethene	888085442025	0.5481	0.6077	25.00	27.72	ug/L	11	20	
Methylene Chloride	888085442025	0.7292	0.7763	25.00	26.61	ug/L	6	20	
Carbon Disulfide	888085442025	2.2605	1.9940	25.00	22.05	ug/L	-12	20	
MTBE	888085442025	1.9157	2.0280	25.00	26.47	ug/L	6	20	
trans-1,2-Dichloroethene	888085442025	0.6330	0.6724	25.00	26.56	ug/L	6	20	
Vinyl Acetate	888085442025	1.2349	0.9537	25.00	19.31	ug/L	-23	30	
1,1-Dichloroethane	888085442025	1.2833	1.3781	25.00	26.85	ug/L	7	20	
2-Butanone	888085442025	0.3264	0.3524	25.00	26.99	ug/L	8	30	
2,2-Dichloropropane	888085442025	1.0618	1.1502	25.00	27.08	ug/L	8	20	
cis-1,2-Dichloroethene	888085442025	0.6728	0.7429	25.00	27.60	ug/L	10	20	
Chloroform	888085442025	1.1034	1.1964	25.00	27.11	ug/L	8	20	
Bromochloromethane	888085442025	0.3084	0.3141	25.00	25.46	ug/L	2	20	
1,1,1-Trichloroethane	888085442025	0.9596	1.0876	25.00	28.33	ug/L	13	20	
1,1-Dichloropropene	888085442025	0.6148	0.6894	25.00	28.03	ug/L	12	20	
Carbon Tetrachloride	888085442025	0.5331	0.6080	25.00	28.51	ug/L	14	20	
1,2-Dichloroethane	888085442025	0.5620	0.6116	25.00	27.21	ug/L	9	20	
Benzene	888085442025	1.8660	2.0188	25.00	27.05	ug/L	8	20	
Trichloroethene	888085442025	0.4416	0.4931	25.00	27.91	ug/L	12	20	
1,2-Dichloropropane	888085442025	0.4687	0.5146	25.00	27.45	ug/L	10	20	
Bromodichloromethane	888085442025	0.5496	0.6132	25.00	27.89	ug/L	12	20	
Dibromomethane	888085442025	0.2126	0.2256	25.00	26.53	ug/L	6	20	
4-Methyl-2-Pentanone	888085442025	0.5208	0.5144	25.00	24.69	ug/L	-1	30	
cis-1,3-Dichloropropene	888085442025	0.7261	0.7789	25.00	26.82	ug/L	7	20	
Toluene	888085442025	1.2937	1.3586	25.00	26.25	ug/L	5	20	
trans-1,3-Dichloropropene	888085442025	0.6822	0.6515	25.00	23.88	ug/L	-4	20	
1,1,2-Trichloroethane	888085442025	0.1837	0.1975	25.00	26.88	ug/L	8	20	
2-Hexanone	888085442025	0.4015	0.4147	25.00	25.82	ug/L	3	30	
1,3-Dichloropropane	888085442025	0.6819	0.7538	25.00	27.64	ug/L	11	20	
Tetrachloroethene	888085442025	0.4876	0.5493	25.00	28.16	ug/L	13	20	
Dibromochloromethane	888085442025	0.3957	0.4209	25.00	26.59	ug/L	6	20	
1,2-Dibromoethane	888085442025	0.3276	0.3527	25.00	26.91	ug/L	8	20	
Chlorobenzene	888085442025	1.5110	1.5859	25.00	26.24	ug/L	5	20	
1,1,1,2-Tetrachloroethane	888085442025	0.4863	0.5233	25.00	26.90	ug/L	8	20	
Ethylbenzene	888085442025	2.8015	3.0555	25.00	27.27	ug/L	9	20	
m,p-Xylenes	888085442025	1.1567	1.2054	50.00	52.10	ug/L	4	20	
o-Xylene	888085442025	1.1211	1.1646	25.00	25.97	ug/L	4	20	
Styrene	888085442025	1.8662	1.9502	25.00	26.13	ug/L	5	20	
Bromoform	888085442025	0.2856	0.2949	25.00	25.82	ug/L	3	20	
IsopropylBenzene	888085442025	4.7619	4.7616	25.00	25.00	ug/L	0	20	

888085442001 ICVs

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	888085442025	0.9138	0.9630	25.00	26.35	ug/L	5	20	
1,2,3-Trichloropropane	888085442025	0.9709	1.0348	25.00	26.65	ug/L	7	20	
Propylbenzene	888085442025	5.8804	6.5355	25.00	27.78	ug/L	11	20	
Bromobenzene	888085442025	1.0709	1.1652	25.00	27.20	ug/L	9	20	
1,3,5-Trimethylbenzene	888085442025	4.3003	4.7323	25.00	27.51	ug/L	10	20	
2-Chlorotoluene	888085442025	3.9980	4.3311	25.00	27.08	ug/L	8	20	
4-Chlorotoluene	888085442025	3.6723	3.8716	25.00	26.36	ug/L	5	20	
tert-Butylbenzene	888085442025	3.6732	4.1742	25.00	28.41	ug/L	14	20	
1,2,4-Trimethylbenzene	888085442025	4.3603	4.8892	25.00	28.03	ug/L	12	20	
sec-Butylbenzene	888085442025	5.4112	6.2369	25.00	28.81	ug/L	15	20	
para-Isopropyl Toluene	888085442025	4.7240	5.1518	25.00	27.26	ug/L	9	20	
1,3-Dichlorobenzene	888085442025	2.2488	2.3552	25.00	26.18	ug/L	5	20	
1,4-Dichlorobenzene	888085442025	2.2811	2.3657	25.00	25.93	ug/L	4	20	
n-Butylbenzene	888085442025	4.4831	5.1594	25.00	28.77	ug/L	15	20	
1,2-Dichlorobenzene	888085442025	2.0491	2.1624	25.00	26.38	ug/L	6	20	
1,2-Dibromo-3-Chloropropane	888085442025	0.2313	0.2264	25.00	24.47	ug/L	-2	20	
1,2,4-Trichlorobenzene	888085442025	1.5647	1.6129	25.00	25.77	ug/L	3	20	
Hexachlorobutadiene	888085442025	0.9006	1.0439	25.00	28.98	ug/L	16	20	
Naphthalene	888085442025	3.1699	3.3486	25.00	26.41	ug/L	6	20	
1,2,3-Trichlorobenzene	888085442025	1.4109	1.5033	25.00	26.64	ug/L	7	20	

-=low bias v=ICV

888085442001 ICVs

CURTIS & TOMPKINS SPIKE USER REPORT FOR 201748 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : QC431728 IDF : 1.0
Seqnum : 888097070004.1 File : lc704 Time : 07-MAR-2008 11:46
Cal : 888085442001 Caldate : 28-FEB-2008 Caltype : SOIL
Standards: S8260 (10000X), S8534 (10000X), S8170 (10000X), S8549 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	1.1908	0.9370	25.00	19.14	ug/L	**-23**	20	0.0500	c- u v- ***
Chloromethane	1.5102	1.6043	25.00	26.56	ug/L	6	20	0.1000	u
Vinyl Chloride	1.3941	1.4415	25.00	25.85	ug/L	3	20	0.0500	u
Bromomethane	0.7417	0.8678	25.00	29.25	ug/L	17	20	0.0500	u
Chloroethane	0.7965	0.8302	25.00	26.06	ug/L	4	20	0.0500	u
Trichlorofluoromethane	1.2077	1.2831	25.00	25.75	ug/L	3	20	0.0500	u
Acetone	0.2245	0.4350	25.00	48.45	ug/L	**94**	30	0.0500	c+ m u ***
Freon 113	0.5598	0.6535	25.00	29.69	ug/L	19	20	0.0500	u
1,1-Dichloroethene	0.5481	0.6497	25.00	29.64	ug/L	19	20	0.0500	u
Methylene Chloride	0.7292	0.8625	25.00	29.57	ug/L	18	20	0.0500	u
Carbon Disulfide	2.2605	2.1656	25.00	23.95	ug/L	-4	20	0.0500	u
MTBE	1.9157	2.0742	25.00	27.07	ug/L	8	20	0.0500	u
trans-1,2-Dichloroethene	0.6330	0.7039	25.00	27.80	ug/L	11	20	0.0500	u
Vinyl Acetate	1.2349	1.0173	25.00	20.59	ug/L	-18	30	0.0500	u
1,1-Dichloroethane	1.2833	1.4785	25.00	28.80	ug/L	15	20	0.1000	u
2-Butanone	0.3264	0.4804	25.00	36.80	ug/L	**47**	30	0.0500	c+ u ***
cis-1,2-Dichloroethene	0.6728	0.7777	25.00	28.90	ug/L	16	20	0.0500	u
2,2-Dichloropropane	1.0618	1.2364	25.00	29.11	ug/L	16	20	0.0500	u
Chloroform	1.1034	1.2396	25.00	28.09	ug/L	12	20	0.0500	u
Bromochloromethane	0.3084	0.3225	25.00	26.14	ug/L	5	20	0.0500	u
1,1,1-Trichloroethane	0.9596	1.1394	25.00	29.69	ug/L	19	20	0.0500	u
1,1-Dichloropropene	0.6148	0.7025	25.00	28.57	ug/L	14	20	0.0500	u
Carbon Tetrachloride	0.5331	0.6198	25.00	29.06	ug/L	16	20	0.0500	u
1,2-Dichloroethane	0.5620	0.6010	25.00	26.73	ug/L	7	20	0.0500	u
Benzene	1.8660	2.0452	25.00	27.40	ug/L	10	20	0.0500	u
Trichloroethene	0.4416	0.4837	25.00	27.38	ug/L	10	20	0.0500	u
1,2-Dichloropropane	0.4687	0.5238	25.00	27.94	ug/L	12	20	0.0500	u
Bromodichloromethane	0.5496	0.5989	25.00	27.24	ug/L	9	20	0.0500	u
Dibromomethane	0.2126	0.2165	25.00	25.46	ug/L	2	20	0.0500	u
4-Methyl-2-Pentanone	0.5208	0.5547	25.00	26.63	ug/L	7	30	0.0500	u
cis-1,3-Dichloropropene	0.7261	0.7853	25.00	27.04	ug/L	8	20	0.0500	u
Toluene	1.2937	1.4145	25.00	27.33	ug/L	9	20	0.0500	u
trans-1,3-Dichloropropene	0.6822	0.6750	25.00	24.74	ug/L	-1	20	0.0500	u
1,1,2-Trichloroethane	0.1837	0.1991	25.00	27.09	ug/L	8	20	0.0500	u
2-Hexanone	0.4015	0.4969	25.00	30.94	ug/L	24	30	0.0500	u
1,3-Dichloropropane	0.6819	0.7490	25.00	27.46	ug/L	10	20	0.0500	u
Tetrachloroethene	0.4876	0.5237	25.00	26.85	ug/L	7	20	0.0500	u
Dibromochloromethane	0.3957	0.3953	25.00	24.97	ug/L	0	20	0.0500	u
1,2-Dibromoethane	0.3276	0.3452	25.00	26.34	ug/L	5	20	0.0500	u
Chlorobenzene	1.5110	1.5830	25.00	26.19	ug/L	5	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4863	0.5037	25.00	25.89	ug/L	4	20	0.0500	u
Ethylbenzene	2.8015	3.1286	25.00	27.92	ug/L	12	20	0.0500	u
m,p-Xylenes	1.1567	1.2494	50.00	54.01	ug/L	8	20	0.0500	u
o-Xylene	1.1211	1.1926	25.00	26.59	ug/L	6	20	0.0500	u
Styrene	1.8662	1.9498	25.00	26.12	ug/L	4	20	0.0500	u
Bromoform	0.2856	0.2786	25.00	24.39	ug/L	-2	20	0.1000	u
Isopropylbenzene	4.7619	4.7985	25.00	25.19	ug/L	1	20	0.0500	u
1,1,2,2-Tetrachloroethane	0.9138	0.9799	25.00	26.81	ug/L	7	20	0.3000	u

00103

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9709	1.0395	25.00	26.77	ug/L	7	20	0.0500	u
Propylbenzene	5.8804	6.7801	25.00	28.82	ug/L	15	20	0.0500	u
Bromobenzene	1.0709	1.1087	25.00	25.88	ug/L	4	20	0.0500	u
1,3,5-Trimethylbenzene	4.3003	4.7600	25.00	27.67	ug/L	11	20	0.0500	u
2-Chlorotoluene	3.9980	4.4002	25.00	27.52	ug/L	10	20	0.0500	u
4-Chlorotoluene	3.6723	3.9675	25.00	27.01	ug/L	8	20	0.0500	u
tert-Butylbenzene	3.6732	4.1838	25.00	28.47	ug/L	14	20	0.0500	u
1,2,4-Trimethylbenzene	4.3603	4.9651	25.00	28.47	ug/L	14	20	0.0500	u
sec-Butylbenzene	5.4112	6.4256	25.00	29.69	ug/L	19	20	0.0500	u
para-Isopropyl Toluene	4.7240	5.2950	25.00	28.02	ug/L	12	20	0.0500	u
1,3-Dichlorobenzene	2.2488	2.4195	25.00	26.90	ug/L	8	20	0.0500	u
1,4-Dichlorobenzene	2.2811	2.4224	25.00	26.55	ug/L	6	20	0.0500	u
n-Butylbenzene	4.4831	5.5260	25.00	30.82	ug/L	**23**	20	0.0500	c+ u ***
1,2-Dichlorobenzene	2.0491	2.1916	25.00	26.74	ug/L	7	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.2313	0.2090	25.00	22.58	ug/L	-10	20	0.0500	u
1,2,4-Trichlorobenzene	1.5647	1.7211	25.00	27.50	ug/L	10	20	0.0500	u
Hexachlorobutadiene	0.9006	1.0132	25.00	28.13	ug/L	13	20	0.0500	u
Naphthalene	3.1699	3.4475	25.00	27.19	ug/L	9	20	0.0500	u
1,2,3-Trichlorobenzene	1.4109	1.5384	25.00	27.26	ug/L	9	20	0.0500	u
Dibromofluoromethane	0.4184	0.4340	50.00	51.87	ug/L	4	20	0.0500	u
1,2-Dichloroethane-d4	0.3496	0.3536	50.00	50.57	ug/L	1	20	0.0500	u
Toluene-d8	1.2307	1.2772	50.00	51.89	ug/L	4	20	0.0500	u
Bromofluorobenzene	0.9479	0.9594	50.00	50.61	ug/L	1	20	0.0500	u

ISTD (ICAL lbs20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	229974	194213	-15.55	9.75	9.75	0.00
1,4-Difluorobenzene	342851	304611	-11.15	10.60	10.60	0.00
Chlorobenzene-d5	324559	297486	-8.34	13.72	13.72	0.00
1,4-Dichlorobenzene-d4	197781	182068	-7.94	16.22	16.21	-0.01

WNH: 03/10/08 EAH: 03/11/08 LW: 03/13/08

+=high bias -=low bias c=CCV m=manual integration u=use v=ICV

888097070004.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 888097070

Date : 03/07/08
Sequence : MSVOA12 lc7

Reference : lbs20
Analyzed : 02/28/08 17:38

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	229974	9.75	342851	10.60	324559	13.72	197781	16.22
		LOWER LIMIT	114987	9.25	171426	10.10	162280	13.22	98891	15.72
		UPPER LIMIT	459948	10.25	685702	11.10	649118	14.22	395562	16.72
004	CCV/LCS	QC431728	194213	9.75	304611	10.60	297486	13.72	182068	16.21
006	BLANK	QC431727	173003	9.74	266000	10.60	263880	13.72	148587	16.21
007	SAMPLE	201748-002	206806	9.74	325352	10.60	325237	13.72	187151	16.21
008	SAMPLE	201748-001	205902	9.74	320722	10.60	329441	13.72	184941	16.21
009	SAMPLE	201333-001	185784	9.74	292483	10.60	292646	13.72	174834	16.21
010	SAMPLE	201740-001	220958	9.74	337447	10.60	347844	13.72	202123	16.22
011	SAMPLE	201740-002	226210	9.74	350153	10.60	350659	13.72	201823	16.22
012	SAMPLE	201740-003	206458	9.75	321979	10.60	322438	13.72	182099	16.21
013	SAMPLE	201740-004	192723	9.74	318730	10.60	270732	13.72	98512 *	16.21
014	MSS	201745-029	248527	9.74	378921	10.60	383973	13.72	219443	16.21
015	SAMPLE	201745-030	232570	9.75	354950	10.60	349594	13.72	197606	16.21
016	SAMPLE	201745-031	228346	9.75	345662	10.60	347807	13.72	194668	16.21
017	SAMPLE	201745-032	209112	9.74	324994	10.60	321740	13.72	180389	16.21
018	SAMPLE	201737-001	205927	9.74	320263	10.60	326793	13.72	186294	16.21
019	MS	QC431830	203993	9.75	321943	10.60	322120	13.72	191004	16.22
020	MSD	QC431831	216838	9.75	340749	10.60	337212	13.72	204711	16.22

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 888085442

Instrument : MSVOA12
Method : EPA 8260B

Begun : 02/28/08 08:02
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	lbs01	TUN	BFB			02/28/08 08:02	1.0	1	
002	lbs02	TUN	BFB			02/28/08 09:24	1.0	1	
003	lbs03	TUN	BFB			02/28/08 09:53	1.0	1	
004	lbs04	TUN	BFB			02/28/08 10:19	1.0	1	
005	lbs05	TUN	BFB			02/28/08 10:31	1.0	1	
006	lbs06	TUN	BFB			02/28/08 10:42	1.0	1	
007	lbs07	TUN	BFB			02/28/08 11:04	1.0	1	
008	lbs08	TUN	BFB			02/28/08 11:18	1.0	1	
009	lbs09	TUN	BFB			02/28/08 11:33	1.0	1	
010	lbs10	TUN	BFB			02/28/08 11:45	1.0	1	
011	lbs11	TUN	BFB			02/28/08 12:04	1.0	1	
012	lbs12	TUN	BFB			02/28/08 12:45	1.0	1	
013	lbs13	X	IB			02/28/08 13:53	1.0	2	
014	lbs14	X	IB			02/28/08 14:25	1.0	2	
015	lbs15	IB	CALIB IB			02/28/08 14:57	1.0	2	
016	lbs16	ICAL	2.5PPB			02/28/08 15:29	1.0	3 4 2	
017	lbs17	ICAL	5PPB			02/28/08 16:02	1.0	3 4 2	
018	lbs18	ICAL	10PPB			02/28/08 16:34	1.0	3 4 2	
019	lbs19	ICAL	20PPB			02/28/08 17:06	1.0	3 4 2	
020	lbs20	ICAL	50PPB			02/28/08 17:38	1.0	3 4 2	
021	lbs21	ICAL	60PPB			02/28/08 18:10	1.0	3 4 2	
022	lbs22	ICAL	75PPB			02/28/08 18:43	1.0	3 4 2	
023	lbs23	ICAL	100PPB			02/28/08 19:15	1.0	3 4 2	
024	lbs24	ICV	25PPB			02/28/08 19:47	1.0	5 2	
025	lbs25	ICV	25PPB			02/28/08 20:20	1.0	6 7 2	
026	lbs26	X	IB			02/28/08 20:52	1.0	2	
027	lbs27	X	IB			02/28/08 21:24	1.0	2	
028	lbs28	X	IB			02/28/08 21:56	1.0	2	

Analyst: BO Date: 02/29/08 Reviewer: LW Date: 03/03/08

Standards used: 1=S7916 2=S8073 3=S8368 4=S8294 5=S8297 6=S8260 7=S8170

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 888097070

Instrument : MSVOA12
Method : EPA 8260B

Begun : 03/07/08 09:50
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	lc701	X	IB			03/07/08 09:50	1.0	1	
002	lc702	TUN	BFB			03/07/08 10:46	1.0	2	
003	lc703	X	30PPB			03/07/08 11:14	1.0	3 4 1	
004	lc704	CCV/LCS	QC431728	Soil	135692	03/07/08 11:46	1.0	5 6 7 1	
005	lc705	X	IB			03/07/08 12:19	1.0	1	
006	lc706	BLANK	QC431727	Soil	135692	03/07/08 13:25	1.0	1	
007	lc707	SAMPLE	201748-002	Soil	135692	03/07/08 13:58	0.7692	1	
008	lc708	SAMPLE	201748-001	Soil	135692	03/07/08 14:31	0.7143	1	
009	lc709	SAMPLE	201333-001	TCLP Leachate	135692	03/07/08 15:03	0.95	1	3:HXO2=950
010	lc710	SAMPLE	201740-001	Soil	135692	03/07/08 15:35	1.111	1	
011	lc711	SAMPLE	201740-002	Soil	135692	03/07/08 16:07	0.9804	1	
012	lc712	SAMPLE	201740-003	Soil	135692	03/07/08 16:40	1.19	1	
013	lc713	SAMPLE	201740-004	Soil	135692	03/07/08 17:12	1.0	1	
014	lc714	MSS	201745-029	Soil	135692	03/07/08 17:44	0.9804	1	
015	lc715	SAMPLE	201745-030	Soil	135692	03/07/08 18:17	0.9091	1	
016	lc716	SAMPLE	201745-031	Soil	135692	03/07/08 18:49	0.9259	1	
017	lc717	SAMPLE	201745-032	Soil	135692	03/07/08 19:21	0.9259	1	
018	lc718	SAMPLE	201737-001	Soil	135692	03/07/08 19:53	1.0	1	
019	lc719	MS	QC431830	Soil	135692	03/07/08 20:26	0.9804	5 6 7 1	1:ACE=190
020	lc720	MSD	QC431831	Soil	135692	03/07/08 20:58	0.9804	5 6 7 1	1:ACE=180
021	lc721	X	IB			03/07/08 21:30	1.0	1	
022	lc722	X	12A			03/07/08 22:02	1.0	1	
023	lc723	X	12B			03/07/08 22:34	1.0	1	

Analyst: WNH Date: 03/10/08 Reviewer: LW Date: 03/10/08

Standards used: 1=S8549 2=S7916 3=S8368 4=S8400 5=S8260 6=S8534 7=S8170

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 3/7/05
Prepped by: jw

(4) 12
135693/135692

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	201745-029	5.1	A		12	comp 13-16 MSS/MSD/DUP	10.0 each	
2	030	5.5				17-20	5.0 grade	
3	031	5.4				21-24		
4	032	5.4				25-28		
5	201737-001	5.0						
6								
7	201333-001		A		4			
8	201333-001				12			
9								
10	201681-002	5.1	A		4	RR MS/MSD only		
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	201583-011	0.206	D		4	RR 25x 2bot		
2	201748-001	7.0	A		12			
3	002	6.5			12			
4	201740-001	4.5	A					
5	002	5.1						
6	003	4.2						
7	004	5.0						
8	201743-001	5.8	A		4			
9	002	4.6						
10	003	5.7						
11	004	5.4						
12	005	5.4						
13	006	4.6						
14	007	5.8						
15	008	5.6						
16	009	5.3						
17	010	4.7						

F:/home/terri/templates/Soilprepsheet.xls

TCLP ZHE EXTRACTION SHEET

SAMPLE #	JAR BEFORE	JAR + SAMPLE	JAR AFTER	WEIGHT DELIVERED	WEIGHT INTENDED	DILUTION FACTOR
201333-001 A	83.1	109.6	83-2	26.4	25	0.95
201357-081 A	84.1	110.1	85.1	25	25	1.00
201357-082 A	83.3	108.9	83.5	25.4	25	0.98
201458-001 AB	84.3	99.2	84.6	14.6	25	1.71
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
				0	25	#DIV/0!
PREPPED BY:	ZIA	DATE:	2/28/2008	TIME	4:10 PM	

PROJECT TCLP ZHE Ext. Cos

Notebook No. BK 1639

Continued From Page

Date/initial & Sample Coy #	Fluid pH	Jar (g) (before)	Jar + sample wt. (g)	Jar (after) sample wt. (g)	Sample wt. (g)	Vessel #	Pressure initial	Pressure final	Comments
~~2/18/08 Blank~~									
2/18/08 ZE BLANK	4.94	—	—	—	—	1	20	10	
201131-1 G		83.1	108.2	83.6	24.6	2	20	16	
-2		83.2	108.4	83.2	25.2	3	22	22	
-3		83.9	109.4	84.0	25.4	4	21	17	
-4		84.0	109.2	84.0	25.2	5	20	20	
-5		84.0	109.4	84.0	25.4	6	20	20	
-6		84.3	109.5	84.4	25.1	7	20	18	
-7		83.9	109.1	84.1	25.0	8	20	12	
-8	4.92	83.2	108.4	83.3	25.1	9	19	16	
201200-2 B		121.9	151.9	121.9	30.0	10	20	12	
201163-4		83.9	110.7	84.7	26.0	11	22	15	
	Temp = min = 21°C			Start time =		14:45		2/18/08 ZE	
	" = max = 24°C			Stop time =		09:25		2/19/08 ZE	
2/28/08 ZE Blank	4.93	—	—	—	—	8	22	22	
201333-1 A		83.1	109.6	83.2	26.4	7	22	22	
201357-81		84.1	110.1	85.1	25.0	5	18	12	comp. 83-86
-82		83.3	108.9	83.5	25.4	2	21	20	87-90
201458-1 AB		84.3	99.2	84.6	14.6	1	19	18	Carbon
	Temp = min = 22°C			Start time =		16:10		2/28/08 ZE	
	" = max = 26°C			Stop time =		09:45		2/29/08 ZE	

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

Curtis & Tompkins, Ltd.

Semivolatile Organics Data By 8270-SIM

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX305[6.0]	Batch#:	135797
Lab ID:	201748-001	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	ug/Kg	Prepared:	03/10/08
Basis:	dry	Analyzed:	03/12/08
Diln Fac:	1.000		

Moisture: 15%

Analyte	Result	RL	MDL
Naphthalene	ND	5.8	0.80
2-Methylnaphthalene	ND	5.8	0.82
Acenaphthylene	ND	5.8	0.75
Acenaphthene	ND	5.8	1.1
Fluorene	ND	5.8	0.99
Phenanthrene	1.3 J	5.8	0.94
Anthracene	ND	5.8	0.72
Fluoranthene	1.2 J	5.8	1.0
Pyrene	1.6 J	5.8	0.91
Benzo(a)anthracene	ND	5.8	0.82
Chrysene	0.88 J	5.8	0.84
Benzo(b)fluoranthene	ND	5.8	0.96
Benzo(k)fluoranthene	ND	5.8	1.4
Benzo(a)pyrene	ND	5.8	0.66
Indeno(1,2,3-cd)pyrene	ND	5.8	0.84
Dibenz(a,h)anthracene	ND	5.8	0.80
Benzo(g,h,i)perylene	ND	5.8	0.81

Surrogate	%REC	Limits
Nitrobenzene-d5	83	23-120
2-Fluorobiphenyl	66	30-115
Terphenyl-d14	90	18-137

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX306[6.0]	Batch#:	135797
Lab ID:	201748-002	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	ug/Kg	Prepared:	03/10/08
Basis:	dry	Analyzed:	03/12/08
Diln Fac:	1.000		

Moisture: 20%

Analyte	Result	RL	MDL
Naphthalene	ND	12	1.7
2-Methylnaphthalene	ND	12	1.8
Acenaphthylene	ND	12	1.6
Acenaphthene	ND	12	2.3
Fluorene	ND	12	2.1
Phenanthrene	ND	12	2.0
Anthracene	ND	12	1.5
Fluoranthene	ND	12	2.2
Pyrene	ND	12	1.9
Benzo(a)anthracene	ND	12	1.8
Chrysene	ND	12	1.8
Benzo(b)fluoranthene	ND	12	2.0
Benzo(k)fluoranthene	ND	12	3.1
Benzo(a)pyrene	ND	12	1.4
Indeno(1,2,3-cd)pyrene	ND	12	1.8
Dibenz(a,h)anthracene	ND	12	1.7
Benzo(g,h,i)perylene	ND	12	1.7

Surrogate	%REC	Limits
Nitrobenzene-d5	101	23-120
2-Fluorobiphenyl	73	30-115
Terphenyl-d14	103	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC432141	Batch#:	135797
Matrix:	Soil	Prepared:	03/10/08
Units:	ug/Kg	Analyzed:	03/11/08
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.68
2-Methylnaphthalene	ND	5.0	0.70
Acenaphthylene	ND	5.0	0.63
Acenaphthene	ND	5.0	0.93
Fluorene	ND	5.0	0.84
Phenanthrene	ND	5.0	0.80
Anthracene	ND	5.0	0.61
Fluoranthene	ND	5.0	0.88
Pyrene	ND	5.0	0.77
Benzo(a)anthracene	ND	5.0	0.70
Chrysene	ND	5.0	0.71
Benzo(b)fluoranthene	ND	5.0	0.81
Benzo(k)fluoranthene	ND	5.0	1.2
Benzo(a)pyrene	ND	5.0	0.56
Indeno(1,2,3-cd)pyrene	ND	5.0	0.72
Dibenz(a,h)anthracene	ND	5.0	0.68
Benzo(g,h,i)perylene	ND	5.0	0.69

Surrogate	%REC	Limits
Nitrobenzene-d5	69	23-120
2-Fluorobiphenyl	69	30-115
Terphenyl-d14	104	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

30.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC432142	Batch#:	135797
Matrix:	Soil	Prepared:	03/10/08
Units:	ug/Kg	Analyzed:	03/11/08
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.20	23.12	70	31-137
Pyrene	33.20	22.60	68	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	72	30-115
Terphenyl-d14	87	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	135797
MSS Lab ID:	201740-002	Sampled:	03/04/08
Matrix:	Soil	Received:	03/05/08
Units:	ug/Kg	Prepared:	03/10/08
Basis:	as received	Analyzed:	03/11/08
Diln Fac:	1.000		

Type: MS Lab ID: QC432143

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<0.9384	33.29	24.93	75	31-137
Pyrene	0.9629	33.29	23.18	67	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	92	23-120
2-Fluorobiphenyl	69	30-115
Terphenyl-d14	87	18-137

Type: MSD Lab ID: QC432144

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.12	23.61	71	31-137	5	19
Pyrene	33.12	23.04	67	35-142	0	36

Surrogate	%REC	Limits
Nitrobenzene-d5	79	23-120
2-Fluorobiphenyl	64	30-115
Terphenyl-d14	87	18-137

RPD= Relative Percent Difference

Level III for 201748 MSSIM Soil

Generated on 03/13/08 16:33.

CURTIS & TOMPKINS DFTPP TUNE FOR 201748 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518081271003 File : ubp03 Time : 25-FEB-2008 12:10

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	32573	40.77	
68	< 2% of mass 69	0	0.00	
69		42253		
70	< 2% of mass 69	83	0.20	
127	40% - 60% of mass 198	39152	49.00	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5281	6.61	
275	10% - 30% of mass 198	12998	16.27	
365	> 1% of mass 198	1031	1.29	
441	Present, < mass 443	7734	67.38	
442	> 40% and < 100% of mass 198	57033	71.38	
443	17% - 23% of mass 442	11478	20.13	

Analyst: AD Date: 02/25/08 Reviewer: LW Date: 02/26/08

518081271003

CURTIS & TOMPKINS DFTPP TUNE FOR 201748 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518081271013 File : ubp13 Time : 25-FEB-2008 18:48

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	36480	42.07	
68	< 2% of mass 69	0	0.00	
69		46496		
70	< 2% of mass 69	70	0.15	
127	40% - 60% of mass 198	43013	49.61	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5519	6.36	
275	10% - 30% of mass 198	13795	15.91	
365	> 1% of mass 198	1022	1.18	
441	Present, < mass 443	718	5.91	
442	> 40% and < 100% of mass 198	60524	69.80	
443	17% - 23% of mass 442	12139	20.06	

Analyst: AD Date: 02/26/08 Reviewer: LW Date: 02/26/08

518081271013

CURTIS & TOMPKINS DFTPP TUNE FOR 201748 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518102839002 File : ucb02 Time : 11-MAR-2008 11:21

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	28307	44.27	
68	< 2% of mass 69	0	0.00	
69		30367		
70	< 2% of mass 69	152	0.50	
127	40% - 60% of mass 198	27026	42.26	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	4329	6.77	
275	10% - 30% of mass 198	11948	18.68	
365	> 1% of mass 198	1181	1.85	
441	Present, < mass 443	5089	42.09	
442	> 40% and < 100% of mass 198	62256	97.36	
443	17% - 23% of mass 442	12091	19.42	

Analyst: AD Date: 03/11/08 Reviewer: LW Date: 03/11/08

518102839002

CURTIS & TOMPKINS DFTPP TUNE FOR 201748 MSSIM Soil
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518102839011 File : ucb11 Time : 11-MAR-2008 18:07

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	28128	59.20	
68	< 2% of mass 69	0	0.00	
69		31629		
70	< 2% of mass 69	103	0.33	
127	40% - 60% of mass 198	23595	49.66	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	3117	6.56	
275	10% - 30% of mass 198	8761	18.44	
365	> 1% of mass 198	826	1.74	
441	Present, < mass 443	3442	46.84	
442	> 40% and < 100% of mass 198	37881	79.73	
443	17% - 23% of mass 442	7349	19.40	

Analyst: LLH Date: 03/13/08 Reviewer: AD Date: 03/13/08

518102839011

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201748 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 518081271001
Units : ug/mL

Name : 2PAHSIM
Date : 25-FEB-2008 13:48
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ubp05	518081271005	0.2/1.0UG/ML	25-FEB-2008 13:48	S8085
L2	ubp06	518081271006	0.5/2.5UG/ML	25-FEB-2008 14:26	S8087
L3	ubp07	518081271007	1.0/5.0UG/ML	25-FEB-2008 15:00	S8088
L4	ubp08	518081271008	2.0/10UG/ML	25-FEB-2008 15:36	S8089
L5	ubp09	518081271009	5.0/25UG/ML	25-FEB-2008 16:12	S8090
L6	ubp10	518081271010	10/50UG/ML	25-FEB-2008 16:51	S8091
L7	ubp12	518081271012	0.1/0.5UG/ML	25-FEB-2008 18:00	S8142

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1450	1.0183	1.0420	1.0575	1.0842	1.0927	1.0758	AVRG		0.93140		1.0737	4	15	0.05	0.99	
2-Methylnaphthalene	0.5675	0.5115	0.5280	0.5613	0.5845	0.5948	0.4965	AVRG		1.82100		0.5491	7	15	0.05	0.99	
Acenaphthylene	1.8829	1.6972	1.8830	1.9212	2.0231	2.0018	1.7204	AVRG		0.53314		1.8757	7	15	0.05	0.99	
Acenaphthene	1.1708	1.0423	1.1392	1.1423	1.1760	1.1765	1.0525	AVRG		0.88613		1.1285	5	15	0.05	0.99	
Fluorene	1.2682	1.1046	1.2600	1.2542	1.2856	1.2913	1.1021	AVRG		0.81719		1.2237	7	15	0.05	0.99	
Phenanthrene	1.2721	1.1376	1.2144	1.2409	1.2380	1.2099	1.1981	AVRG		0.82247		1.2158	3	15	0.05	0.99	
Anthracene	1.2909m	1.2015m	1.3014m	1.3351m	1.3061	1.2797	1.1698m	AVRG		0.78788		1.2692	5	15	0.05	0.99	
Fluoranthene	1.2734	1.1561	1.2482	1.2721	1.2586	1.2242	1.1572	AVRG		0.81492		1.2271	4	15	0.05	0.99	
Pyrene	1.8465	1.6204	1.6740	1.5833	1.5662	1.5227	1.8731m	AVRG		0.59900		1.6695	8	15	0.05	0.99	
Benzo(a)anthracene	1.2267	1.1095	1.1696	1.1820	1.2471	1.2268	1.1075	AVRG		0.84650		1.1813	5	15	0.05	0.99	
Chrysene	1.4241m	1.2715m	1.3117m	1.2995m	1.2888m	1.2683m	1.3795m	AVRG		0.75729		1.3205	4	15	0.05	0.99	
Benzo(b)fluoranthene	1.2834	1.0788	1.1846	1.1499	1.2536	1.1426	1.1181	AVRG		0.85252		1.1730	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.3386m	1.2606m	1.3471	1.4121	1.2660	1.0884	1.3716	AVRG		0.77055		1.2978	8	15	0.05	0.99	
Benzo(a)pyrene	1.1525m	0.9856m	1.0206	1.0774	1.1392	1.1207	1.0093m	AVRG		0.93267		1.0722	6	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.8543m	0.7550m	0.7874	0.8588	1.0313	1.0240	0.7634m	AVRG		1.15242		0.8677	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6683m	0.6197m	0.6489m	0.7116m	0.8675	0.8588	0.6394m	AVRG		1.39602		0.7163	15	15	0.05	0.99	
Benzo(g,h,i)perylene	0.8814m	0.7478m	0.7548m	0.7966m	0.9277m	0.9095m	0.8330m	AVRG		1.19641		0.8358	9	15	0.05	0.99	
Nitrobenzene-d5	0.2847m	0.2358m	0.2430m	0.2571	0.2750	0.2946		AVRG		3.77315		0.2650	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2416	1.1075	1.2439	1.2425	1.2954	1.2603		AVRG		0.81178		1.2319	5	15	0.05	0.99	
Terphenyl-d14	1.1255	0.9774	1.0157	0.9876	0.9865	0.9533		AVRG		0.99240		1.0077	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.200	7	0.500	-5	1.000	-3	2.000	-2	5.000	1	10.00	2	0.100	0
2-Methylnaphthalene	0.200	3	0.500	-7	1.000	-4	2.000	2	5.000	6	10.00	8	0.100	-10
Acenaphthylene	0.200	0	0.500	-10	1.000	0	2.000	2	5.000	8	10.00	7	0.100	-8
Acenaphthene	0.200	4	0.500	-8	1.000	1	2.000	1	5.000	4	10.00	4	0.100	-7
Fluorene	0.200	4	0.500	-10	1.000	3	2.000	2	5.000	5	10.00	6	0.100	-10
Phenanthrene	0.200	5	0.500	-6	1.000	0	2.000	2	5.000	2	10.00	0	0.100	-1
Anthracene	0.200	2	0.500	-5	1.000	3	2.000	5	5.000	3	10.00	1	0.100	-8
Fluoranthene	0.200	4	0.500	-6	1.000	2	2.000	4	5.000	3	10.00	0	0.100	-6
Pyrene	0.200	11	0.500	-3	1.000	0	2.000	-5	5.000	-6	10.00	-9	0.100	12
Benzo(a)anthracene	0.200	4	0.500	-6	1.000	-1	2.000	0	5.000	6	10.00	4	0.100	-6
Chrysene	0.200	8	0.500	-4	1.000	-1	2.000	-2	5.000	-2	10.00	-4	0.100	4
Benzo(b)fluoranthene	0.200	9	0.500	-8	1.000	1	2.000	-2	5.000	7	10.00	-3	0.100	-5
Benzo(k)fluoranthene	0.200	3	0.500	-3	1.000	4	2.000	9	5.000	-2	10.00	-16	0.100	6
Benzo(a)pyrene	0.200	7	0.500	-8	1.000	-5	2.000	0	5.000	6	10.00	5	0.100	-6
Indeno(1,2,3-cd)pyrene	0.200	-2	0.500	-13	1.000	-9	2.000	-1	5.000	19	10.00	18	0.100	-12
Dibenz(a,h)anthracene	0.200	-7	0.500	-13	1.000	-9	2.000	-1	5.000	21	10.00	20	0.100	-11
Benzo(g,h,i)perylene	0.200	5	0.500	-11	1.000	-10	2.000	-5	5.000	11	10.00	9	0.100	0
Nitrobenzene-d5	0.200	7	0.500	-11	1.000	-8	2.000	-3	5.000	4	10.00	11		
2-Fluorobiphenyl	0.200	1	0.500	-10	1.000	1	2.000	1	5.000	5	10.00	2		
Terphenyl-d14	0.200	12	0.500	-3	1.000	1	2.000	-2	5.000	-2	10.00	-5		

AD 02/26/08 : Manual integrations due to tailing/splitting of peaks.

AD 02/26/08 [Nitrobenzene-d5]: Baseline does not display because the integration ends outside the RT window. Integration is appropriate.

Analyst: AD Date: 02/26/08 Reviewer: LW Date: 02/26/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201748 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 518081271001 Cal Date : 25-FEB-2008

ICV 518081271014 (ubp14 25-FEB-2008) stds: S8092

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0737	1.1041	1.000	1.028	ug/mL	3	20	
2-Methylnaphthalene	0.5491	0.5980	1.000	1.089	ug/mL	9	20	
Acenaphthylene	1.8757	1.9289	1.000	1.028	ug/mL	3	20	
Acenaphthene	1.1285	1.1849	1.000	1.050	ug/mL	5	20	
Fluorene	1.2237	1.2723	1.000	1.040	ug/mL	4	20	
Phenanthrene	1.2158	1.2796	1.000	1.052	ug/mL	5	20	
Anthracene	1.2692	1.2256	1.000	0.9656	ug/mL	-3	20	m
Fluoranthene	1.2271	1.2987	1.000	1.058	ug/mL	6	20	
Pyrene	1.6695	1.6186	1.000	0.9695	ug/mL	-3	20	
Benzo(a)anthracene	1.1813	1.2560	1.000	1.063	ug/mL	6	20	
Chrysene	1.3205	1.3871	1.000	1.050	ug/mL	5	20	m
Benzo(b)fluoranthene	1.1730	1.2125	1.000	1.034	ug/mL	3	20	
Benzo(k)fluoranthene	1.2978	1.3240	1.000	1.020	ug/mL	2	20	
Benzo(a)pyrene	1.0722	1.0328	1.000	0.9632	ug/mL	-4	20	
Indeno(1,2,3-cd)pyrene	0.8677	0.8774	1.000	1.011	ug/mL	1	20	
Dibenz(a,h)anthracene	0.7163	0.6982	1.000	0.9747	ug/mL	-3	20	
Benzo(g,h,i)perylene	0.8358	0.7940	1.000	0.9499	ug/mL	-5	20	m

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 0.5/2.5UG/ML IDF : 1.0
Seqnum : 518102839003.1 File : ucb03 Time : 11-MAR-2008 11:47
Cal : 518081271001 Caldate : 25-FEB-2008
Standards: S8087

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0737	0.9529	0.5000	0.4438	ug/mL	-11	20	0.0500	
2-Methylnaphthalene	0.5491	0.5032	0.5000	0.4581	ug/mL	-8	20	0.0500	
Acenaphthylene	1.8757	1.6930	0.5000	0.4513	ug/mL	-10	20	0.0500	
Acenaphthene	1.1285	1.0085	0.5000	0.4468	ug/mL	-11	20	0.0500	
Fluorene	1.2237	1.0763	0.5000	0.4398	ug/mL	-12	20	0.0500	
Phenanthrene	1.2158	1.1157	0.5000	0.4588	ug/mL	-8	20	0.0500	
Anthracene	1.2692	1.1640	0.5000	0.4585	ug/mL	-8	20	0.0500	m
Fluoranthene	1.2271	1.1261	0.5000	0.4588	ug/mL	-8	20	0.0500	
Pyrene	1.6695	1.4781	0.5000	0.4427	ug/mL	-11	20	0.0500	
Benzo(a)anthracene	1.1813	1.1129	0.5000	0.4711	ug/mL	-6	20	0.0500	
Chrysene	1.3205	1.3590	0.5000	0.5146	ug/mL	3	20	0.0500	m
Benzo(b)fluoranthene	1.1730	0.9971	0.5000	0.4250	ug/mL	-15	20	0.0500	
Benzo(k)fluoranthene	1.2978	1.1031	0.5000	0.4250	ug/mL	-15	20	0.0500	m
Benzo(a)pyrene	1.0722	0.8955	0.5000	0.4176	ug/mL	-16	20	0.0500	m
Indeno(1,2,3-cd)pyrene	0.8677	1.0107	0.5000	0.5824	ug/mL	16	20	0.0500	m
Dibenz(a,h)anthracene	0.7163	0.7946	0.5000	0.5546	ug/mL	11	20	0.0500	m
Benzo(g,h,i)perylene	0.8358	0.9644	0.5000	0.5769	ug/mL	15	20	0.0500	
Nitrobenzene-d5	0.2650	0.2388	0.5000	0.4506	ug/mL	-10	20	0.0500	m
2-Fluorobiphenyl	1.2319	1.0771	0.5000	0.4372	ug/mL	-13	20	0.0500	
Terphenyl-d14	1.0077	1.1136	0.5000	0.5526	ug/mL	11	20	0.0500	

Analyst: LLH Date: 03/13/08 Reviewer: AD Date: 03/13/08

m=manual integration

518102839003.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201748 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 0.5/2.5UG/ML IDF : 1.0
Seqnum : 518102839012.1 File : ucb12 Time : 11-MAR-2008 18:28
Cal : 518081271001 Caldate : 25-FEB-2008
Standards: S8087

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0737	0.9885	0.5000	0.4604	ug/mL	-8	20	0.0500	
2-Methylnaphthalene	0.5491	0.5278	0.5000	0.4806	ug/mL	-4	20	0.0500	
Acenaphthylene	1.8757	1.7555	0.5000	0.4680	ug/mL	-6	20	0.0500	
Acenaphthene	1.1285	1.0214	0.5000	0.4525	ug/mL	-10	20	0.0500	
Fluorene	1.2237	1.1211	0.5000	0.4581	ug/mL	-8	20	0.0500	
Phenanthrene	1.2158	1.2445	0.5000	0.5118	ug/mL	2	20	0.0500	
Anthracene	1.2692	1.3433	0.5000	0.5292	ug/mL	6	20	0.0500	m
Fluoranthene	1.2271	1.1244	0.5000	0.4581	ug/mL	-8	20	0.0500	
Pyrene	1.6695	1.5065	0.5000	0.4512	ug/mL	-10	20	0.0500	
Benzo(a)anthracene	1.1813	1.1906	0.5000	0.5039	ug/mL	1	20	0.0500	
Chrysene	1.3205	1.3502	0.5000	0.5113	ug/mL	2	20	0.0500	m
Benzo(b)fluoranthene	1.1730	1.0395	0.5000	0.4431	ug/mL	-11	20	0.0500	
Benzo(k)fluoranthene	1.2978	1.1636	0.5000	0.4483	ug/mL	-10	20	0.0500	
Benzo(a)pyrene	1.0722	0.8609	0.5000	0.4015	ug/mL	-20	20	0.0500	
Indeno(1,2,3-cd)pyrene	0.8677	1.0040	0.5000	0.5785	ug/mL	16	20	0.0500	
Dibenz(a,h)anthracene	0.7163	0.7978	0.5000	0.5569	ug/mL	11	20	0.0500	
Benzo(g,h,i)perylene	0.8358	0.9452	0.5000	0.5654	ug/mL	13	20	0.0500	
Nitrobenzene-d5	0.2650	0.2671	0.5000	0.5040	ug/mL	1	20	0.0500	m
2-Fluorobiphenyl	1.2319	0.9467	0.5000	0.3843	ug/mL	**-23**	20	0.0500	c-
Terphenyl-d14	1.0077	1.1188	0.5000	0.5551	ug/mL	11	20	0.0500	

Analyst: LLH Date: 03/13/08 Reviewer: AD Date: 03/13/08

-=low bias c=CCV m=manual integration

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 518102839

Date : 03/11/08
Sequence : MSBNA02 ucb

Reference : ucb03
Analyzed : 03/11/08 11:47

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	10279	7.88	48244	9.43	23152	11.69	31460	13.64	25243	17.19	21213	19.11
		LOWER LIMIT	5140	7.38	24122	8.93	11576	11.19	15730	13.14	12622	16.69	10607	18.61
		UPPER LIMIT	20558	8.38	96488	9.93	46304	12.19	62920	14.14	50486	17.69	42426	19.61
003	CCV	0.5/2.5UG/ML	10279	7.88	48244	9.43	23152	11.69	31460	13.64	25243	17.19	21213	19.11
004	BLANK	QC432141	9360	7.88	39764	9.44	18343	11.69	26031	13.65	17855	17.19	14424	19.12
005	LCS	QC432142	9434	7.87	39501	9.43	17963	11.69	27653	13.65	21664	17.19	18049	19.12

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 518102839

Date : 03/11/08
Sequence : MSBNA02 ucb

Reference : ucb12
Analyzed : 03/11/08 18:28

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	9456	7.88	43948	9.44	21312	11.70	27848	13.65	21958	17.19	18367	19.12
		LOWER LIMIT	4728	7.38	21974	8.94	10656	11.20	13924	13.15	10979	16.69	9184	18.62
		UPPER LIMIT	18912	8.38	87896	9.94	42624	12.20	55696	14.15	43916	17.69	36734	19.62
012	CCV	0.5/2.5UG/ML	9456	7.88	43948	9.44	21312	11.70	27848	13.65	21958	17.19	18367	19.12
013	BLANK	QC432141	10906	7.88	45240	9.44	21003	11.70	27968	13.65	19390	17.19	16092	19.12
014	LCS	QC432142	11156	7.88	46879	9.44	22394	11.70	29376	13.65	23256	17.19	20059	19.12
015	MSS	201740-002	10232	7.88	42686	9.44	20379	11.70	27374	13.65	20686	17.19	20338	19.12
016	MS	QC432143	10233	7.87	42502	9.44	20629	11.70	27735	13.65	21830	17.19	22224	19.12
017	MSD	QC432144	10751	7.86	47121	9.43	22399	11.69	31066	13.65	24184	17.19	24290	19.12
018	SAMPLE	201740-001	10116	7.88	44102	9.44	21623	11.70	29785	13.65	23427	17.19	23161	19.12
019	SAMPLE	201740-003	10472	7.87	44231	9.43	21264	11.69	30312	13.65	24195	17.19	23032	19.12
020	SAMPLE	201740-004	10975	7.87	46950	9.43	22298	11.70	30574	13.65	22915	17.19	17898	19.13
021	SAMPLE	201748-001	10503	7.87	47279	9.43	22333	11.69	30936	13.65	22207	17.19	19810	19.12
022	SAMPLE	201748-002	10094	7.88	44143	9.44	20915	11.70	28507	13.65	21003	17.19	18910	19.12
023	SAMPLE	201772-002	11936	7.87	54976	9.43	27516	11.70	42129	13.65	35912	17.20	27777	19.13
024	SAMPLE	201749-001	11778	7.88	53719	9.44	25991	11.70	35380	13.65	26568	17.19	23428	19.12

:00128

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 518081271

Instrument : MSBNA02 Begun : 02/25/08 10:31
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ubp01	CCV	RT UPDATE			02/25/08 10:31	1.0	1	3:NO2BZD5=12
002	ubp02	CCV	RT CHECK			02/25/08 11:34	1.0	1	3:NO2BZD5=10
003	ubp03	TUN	DFTPP/PEM 50UG/ML			02/25/08 12:10	1.0	2	
004	ubp04	ICAL	0.1/0.5UG/ML			02/25/08 13:11	1.0	3	
005	ubp05	ICAL	0.2/1.0UG/ML			02/25/08 13:48	1.0	4	
006	ubp06	ICAL	0.5/2.5UG/ML			02/25/08 14:26	1.0	5	
007	ubp07	ICAL	1.0/5.0UG/ML			02/25/08 15:00	1.0	6	
008	ubp08	ICAL	2.0/10UG/ML			02/25/08 15:36	1.0	7	
009	ubp09	ICAL	5.0/25UG/ML			02/25/08 16:12	1.0	1	
010	ubp10	ICAL	10/50UG/ML			02/25/08 16:51	1.0	8	
011	ubp11	IB	INSTRUMENT BLANK			02/25/08 17:25	1.0		
012	ubp12	ICAL	0.1/0.5UG/ML			02/25/08 18:00	1.0	9	
013	ubp13	TUN	DFTPP/PEM 50UG/ML			02/25/08 18:48	1.0	2	
014	ubp14	ICV/CCV	1/10 ICV/CCV			02/25/08 19:08	1.0	10	
015	ubp15	BLANK	QC429749	Soil	135194	02/25/08 19:50	1.0	11	
016	ubp16	LCS	QC429750	Soil	135194	02/25/08 20:24	1.0	11	
017	ubp17	SAMPLE	201371-008	Water	135182	02/25/08 21:00	1.0	11	
018	ubp18	SAMPLE	201371-009	Water	135182	02/25/08 21:35	1.0	11	
019	ubp19	SAMPLE	201371-010	Water	135182	02/25/08 22:10	1.0	11	
020	ubp20	SAMPLE	201371-011	Water	135182	02/25/08 22:45	1.0	11	
021	ubp21	SAMPLE	201197-021	Soil	135194	02/25/08 23:21	1.0	11	
022	ubp22	SAMPLE	201400-002	Soil	135194	02/25/08 23:57	1.0	11	
023	ubp23	SAMPLE	201400-003	Soil	135194	02/26/08 00:34	1.0	11	
024	ubp24	SAMPLE	201197-011	Soil	135194	02/26/08 01:10	2.0	11	8:PHAN=43
025	ubp25	SAMPLE	201197-012	Soil	135194	02/26/08 01:47	2.0	11	
026	ubp26	MSS	201197-013	Soil	135194	02/26/08 02:23	1.0	11	6:BZBF=17
027	ubp27	SAMPLE	201197-014	Soil	135194	02/26/08 02:59	1.0	11	6:BZBF=19
028	ubp28	SAMPLE	201197-015	Soil	135194	02/26/08 03:35	5.0	11	5:BZBF=21
029	ubp29	SAMPLE	201197-016	Soil	135194	02/26/08 04:12	5.0	11	
030	ubp30	SAMPLE	201197-017	Soil	135194	02/26/08 04:48	5.0	11	
031	ubp31	SAMPLE	201197-018	Soil	135194	02/26/08 05:24	1.0	11	
032	ubp32	SAMPLE	201197-019	Soil	135194	02/26/08 06:00	10.0	11	7:PYR=34
033	ubp33	SAMPLE	201197-020	Soil	135194	02/26/08 06:37	2.0	11	

AD 02/25/08 : S8084, ran as ubp04 ICAL point was not prepared properly. Use S8142, ubp12.

Standards used: 1=S8090 2=S7771 3=S8084 4=S8085 5=S8087 6=S8088 7=S8089 8=S8091 9=S8142 10=S8092 11=S8083

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 518102839

Instrument : MSBNA02 Begun : 03/11/08 09:59
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ucb01	TUN	DFTPP/PEM 50 UG/ML			03/11/08 09:59	1.0	1	
002	ucb02	TUN	DFTPP/PEM 50UG/ML			03/11/08 11:21	1.0	1	
003	ucb03	CCV	0.5/2.5UG/ML			03/11/08 11:47	1.0	2	
004	ucb04	BLANK	QC432141	Soil	135797	03/11/08 12:24	1.0	3	
005	ucb05	LCS	QC432142	Soil	135797	03/11/08 13:00	1.0	3	
006	ucb06	TUN	DFTPP/PEM 50UG/ML			03/11/08 15:06	1.0	1	
007	ucb07	CCV	0.5/2.5UG/ML			03/11/08 15:34	1.0	2	
008	ucb08	BLANK	QC432141	Soil	135797	03/11/08 16:14	1.0	3	
009	ucb09	LCS	QC432142	Soil	135797	03/11/08 16:49	1.0	3	
010	ucb10	TUN	DFTPP/PEM 50UG/ML			03/11/08 17:36	1.0	1	
011	ucb11	TUN	DFTPP/PEM 50UG/ML			03/11/08 18:07	1.0	1	
012	ucb12	CCV	0.5/2.5UG/ML			03/11/08 18:28	1.0	2	
013	ucb13	BLANK	QC432141	Soil	135797	03/11/08 19:23	1.0	3	
014	ucb14	LCS	QC432142	Soil	135797	03/11/08 19:59	1.0	3	
015	ucb15	MSS	201740-002	Soil	135797	03/11/08 20:36	1.0	3	
016	ucb16	MS	QC432143	Soil	135797	03/11/08 21:13	1.0	3	
017	ucb17	MSD	QC432144	Soil	135797	03/11/08 21:50	1.0	3	
018	ucb18	SAMPLE	201740-001	Soil	135797	03/11/08 22:32	1.0	3	
019	ucb19	SAMPLE	201740-003	Soil	135797	03/11/08 23:10	1.0	3	
020	ucb20	SAMPLE	201740-004	Soil	135797	03/11/08 23:47	1.0	3	
021	ucb21	SAMPLE	201748-001	Soil	135797	03/12/08 00:24	1.0	3	
022	ucb22	SAMPLE	201748-002	Soil	135797	03/12/08 01:00	1.0	3	
023	ucb23	SAMPLE	201772-002	Water	135752	03/12/08 01:36	1.0	3	1:MTNPH1=21
024	ucb24	SAMPLE	201749-001	Water	135752	03/12/08 02:12	1.0	3	

Standards used: 1=S7771 2=S8087 3=S8540

SAMPLE PREPARATION SUMMARY

Batch # : 135797
Started By : MFC
Method : 3550B
Spike #1 ID : S8575
Prep Date : 10-MAR-2008
SOP Version : 8270_SIM_rv1
Spike #2 ID : S8508
Analysis : 8270-SIM
Finished By : MFC
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
201740-001		Soil	30.27	1	1	0.03304		1				8270-SIM	
201740-002		Soil	29.91	1	1	0.03343		1				8270-SIM	mss
201740-003		Soil	30.12	1	1	0.0332		1				8270-SIM	
201740-004		Soil	30.11	1	1	0.03321		1				8270-SIM	See comment 1 below
201748-001		Soil	30.25	1	1	0.03306		1				8270-SIM	
201748-002		Soil	30.05	2	1	0.06656		1				8270-SIM	See comment 2 below
201802-001		Soil	30.16	1	1	0.03316		1				8270-SIM	
QC432141	BLANK	Soil	30.28	1	1	0.03303		1				8270-SIM	
QC432142	LCS	Soil	30.12	1	1	0.0332		1	1			8270-SIM	
QC432143	MS	Soil	30.04	1	1	0.03329		1	1			8270-SIM	
QC432144	MSD	Soil	30.19	1	1	0.03312		1	1			8270-SIM	

Comment 1: sample went dry less than 5 seconds
Comment 2: sample wouldn't concentrate further

JAJ 03/11/08 : reviewed paperwork

Analyst: LLH Date: 03/13/08 Reviewer: AD Date: 03/13/08

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 27 **BK2665**

LIMS Batch No: 135797
LIMS Analysis 8270-SIM
Date Extracted: 3/10/08

Extraction Method:
☒ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
201740-001	E	30.27	1.0		
2		29.91			MSS
3		30.12			
4		30.11			went dry < 5 seconds
201748-001	G	30.25			
2		30.05	2.0		sample wouldn't conc. further
201802-001	A	30.16	1.0		
MB QC432141		30.28			
LCS 2		30.12			
MS 3		30.04			
MSD 4		30.19			

MFC 3/10/08

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM4728178	MFC 3/10/08
1.0 mL of surrogate solution was added to all samples	S8575B	
1.0 mL of matrix spiking solution was added to all spikes	S8508B	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM48045	
Acetone	EM47156	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM4728180Y	
Concentrated to final volume at temperature (degrees C)	70	
Relinquished to BNA department	✓	

3/10/08
Extraction Chemist / Date

Continued from page _____
Continued on page _____

3/10/08
Reviewed by / Date

Project SOIL ALIQUOT BK 2627

Continued from Page

SAMPLE I.D	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
201719-001A	29.87	8270-SIM		
02	30.13			
201722-001	30.08			
03	30.07			
04	30.33			
05	30.47			
06	29.92			
07	30.31			
08	29.85			
09	30.43			
10	30.17			
11	29.66			
12	30.25			
13	30.24			
14	29.68			
15	30.08			
16	30.12			
201726-001	30.15			MSS
02	30.00			
03	30.39			EM47281748
MB	29.82			
LCS	30.39			201726-001A
MS	30.24			
MSD	30.12			SPL 3/6/08
201740-001E	30.27	8270 SIM	135797	MSS
2	29.9			
3	30.12			
4	30.11			EM47281748
BLANK	30.28			
LCS	30.12			201740-002E
MS	30.04			
MSD	30.19			

KR 3/6/08

Continued on Page

Signed Date

Read and Understood By

Signed Date

144 Project SOIL ALIQUOT BK2627

Continued from Page 143

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
201722-001A	30.11	PCB		
002	30.06			
003	30.18			
				KR 3/6/08
201737-001A	50.37	TEHM		
201743-001G	49.72			
002	49.85			
003H	50.05			MSS
004	50.23			
005	50.48			
006	49.96			
007	49.75			
008	50.49			
009	49.58			
010	49.52			
MB	49.59			EM47281748
LCS	49.94			
MS	49.95			201743-003H
MSD	49.82			
				MJD 3/6/08
201724-001A	30.25	PCB		
002	30.37			
003	30.30			
004	30.28			MSS
005	30.48			
MB	30.20			EM47281748
LCS	30.04			
MS	30.35			201721-004A
MSD	30.25			
				SFL 3/7/08
201677-004ED CLB 3/7/08	50.11	TEHM		
				CLB 3/7/08
201748-001G	50.12	TEHM		
002	50.37			
201748-001G	30.25	8270-SIM	135797	
002	20.05			

Continued on Page

KR 3/7/08

Signed Date

Read and Understood By

Signed Date

00134

Sample ID	Weight(g)	Analysis	Batch #	Comments
201618-038A	50.18	TEH		
201726-001A	50.49			MSS
MB	50.31			EM472817448
LCS	50.49			↓
MS	50.09			201726-001A
MSD	50.14	↓		↓
				KML 3/10/08
201802-001A	30.16	SIM-8270	135797	
				MFC 3/10/08

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd.

Metals Data (Soil)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	201748	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX305[6.0]	Basis:	dry
Lab ID:	201748-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08

Moisture: 15%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.12 J	0.59	0.029	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Arsenic	2.9	0.29	0.052	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Barium	84	0.29	0.0049	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Beryllium	0.27	0.12	0.0022	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Cadmium	0.043 J	0.29	0.0028	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Chromium	79	0.29	0.017	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Cobalt	12	0.29	0.0082	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Copper	7.4	0.29	0.029	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Lead	37	0.24	0.080	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Mercury	0.025	0.024	0.0048	135836	03/11/08	03/11/08	METHOD	EPA 7471A
Molybdenum	ND	0.29	0.023	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Nickel	58	0.29	0.019	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Selenium	0.96	0.59	0.082	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Silver	0.066 J	0.29	0.019	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Thallium	ND	0.59	0.036	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Vanadium	50	0.29	0.022	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Zinc	41	1.2	0.030	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	201748	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX306[6.0]	Basis:	dry
Lab ID:	201748-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/06/08
Units:	mg/Kg	Received:	03/06/08

Moisture: 20%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.63	0.034	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Arsenic	3.8	0.31	0.062	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Barium	90	0.31	0.0058	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Beryllium	0.40	0.13	0.0026	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Cadmium	0.021 J	0.31	0.0033	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Chromium	64	0.31	0.021	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Cobalt	11	0.31	0.0098	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Copper	10	0.31	0.035	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Lead	8.3	0.29	0.096	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Mercury	0.038	0.025	0.0061	135836	03/11/08	03/11/08	METHOD	EPA 7471A
Molybdenum	ND	0.31	0.028	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Nickel	38	0.31	0.022	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Selenium	ND	0.63	0.097	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Silver	0.067 J	0.31	0.023	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Thallium	ND	0.63	0.043	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Vanadium	53	0.31	0.026	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B
Zinc	33	1.3	0.035	135731	03/07/08	03/10/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

12.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC431869	Batch#:	135731
Matrix:	Soil	Prepared:	03/07/08
Units:	mg/Kg	Analyzed:	03/10/08
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.027
Arsenic	ND	0.25	0.050
Barium	ND	0.25	0.0047
Beryllium	0.0061 J	0.10	0.0021
Cadmium	0.0042 J	0.25	0.0027
Chromium	ND	0.25	0.017
Cobalt	ND	0.25	0.0078
Copper	ND	0.25	0.028
Lead	ND	0.23	0.076
Molybdenum	ND	0.25	0.022
Nickel	ND	0.25	0.018
Selenium	ND	0.50	0.078
Silver	ND	0.25	0.018
Thallium	ND	0.50	0.034
Vanadium	ND	0.25	0.021
Zinc	ND	1.0	0.028

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

13.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC432298	Batch#:	135836
Matrix:	Soil	Prepared:	03/11/08
Units:	mg/Kg	Analyzed:	03/11/08

Result	RL	MDL
ND	0.020	0.0052

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

14.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	135731
Units:	mg/Kg	Prepared:	03/07/08
Basis:	as received	Analyzed:	03/10/08
Diln Fac:	1.000		

Type: BS Lab ID: QC431870

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.91	96	75-125
Arsenic	50.00	48.19	96	75-125
Barium	100.0	94.08	94	75-125
Beryllium	2.500	2.390	96	75-125
Cadmium	10.00	9.705	97	75-125
Chromium	100.0	90.93	91	75-125
Cobalt	25.00	22.87	91	75-125
Copper	12.50	11.52	92	75-125
Lead	100.0	93.31	93	75-125
Molybdenum	20.00	18.98	95	75-125
Nickel	25.00	23.04	92	75-125
Selenium	50.00	47.80	96	75-125
Silver	10.00	8.783	88	75-125
Thallium	50.00	45.87	92	75-125
Vanadium	25.00	22.66	91	75-125
Zinc	25.00	23.26	93	75-125

Type: BSD Lab ID: QC431871

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	97.13	97	75-125	1	30
Arsenic	50.00	48.76	98	75-125	1	30
Barium	100.0	95.60	96	75-125	2	30
Beryllium	2.500	2.426	97	75-125	2	30
Cadmium	10.00	9.918	99	75-125	2	30
Chromium	100.0	92.31	92	75-125	1	30
Cobalt	25.00	23.21	93	75-125	2	30
Copper	12.50	11.74	94	75-125	2	30
Lead	100.0	95.19	95	75-125	2	30
Molybdenum	20.00	19.24	96	75-125	1	30
Nickel	25.00	23.45	94	75-125	2	30
Selenium	50.00	48.49	97	75-125	1	30
Silver	10.00	8.938	89	75-125	2	30
Thallium	50.00	46.69	93	75-125	2	30
Vanadium	25.00	22.99	92	75-125	1	30
Zinc	25.00	23.69	95	75-125	2	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	135731
MSS Lab ID:	201743-001	Sampled:	03/05/08
Matrix:	Soil	Received:	03/06/08
Units:	mg/Kg	Prepared:	03/07/08
Basis:	dry	Analyzed:	03/10/08
Diln Fac:	1.000		

Type: MS Moisture: 16%
Lab ID: QC431872

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.177	114.5	47.48	40 *	75-125
Arsenic	9.918	57.23	62.31	92	75-125
Barium	243.8	114.5	384.9	123 P	75-125
Beryllium	0.5127	2.862	3.228	95	75-125
Cadmium	0.4506	11.45	10.53	88	75-125
Chromium	47.12	114.5	160.4	99	75-125
Cobalt	12.98	28.62	37.49	86	75-125
Copper	153.4	14.31	217.4	447 NM	75-125
Lead	36.39	114.5	135.3	86	75-125
Molybdenum	0.06497	22.89	19.00	83	75-125
Nickel	47.67	28.62	72.40	86 P	75-125
Selenium	0.8980	57.23	51.98	89	75-125
Silver	0.1817	11.45	9.890	85	75-125
Thallium	<0.03751	57.23	44.46	78	75-125
Vanadium	50.65	28.62	82.40	111 P	75-125
Zinc	145.4	28.62	174.4	101 NM	75-125

Type: MSD Moisture: 16%
Lab ID: QC431873

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	119.0	50.49	41 *	75-125	2	30
Arsenic	59.52	63.11	89	75-125	2	30
Barium	119.0	326.1	69 * P	75-125	18	30
Beryllium	2.976	3.225	91	75-125	3	30
Cadmium	11.90	10.79	87	75-125	1	30
Chromium	119.0	179.8	111	75-125	9	30
Cobalt	29.76	38.44	86	75-125	0	30
Copper	14.88	154.2	5 NM	75-125	34 *	30
Lead	119.0	134.0	82	75-125	4	30
Molybdenum	23.81	19.74	83	75-125	0	30
Nickel	29.76	78.17	102 P	75-125	6	30
Selenium	59.52	52.87	87	75-125	2	30
Silver	11.90	10.31	85	75-125	0	30
Thallium	59.52	46.32	78	75-125	0	30
Vanadium	29.76	86.26	120 P	75-125	3	30
Zinc	29.76	154.9	32 NM	75-125	12	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	135836
Units:	mg/Kg	Prepared:	03/11/08
Basis:	as received	Analyzed:	03/11/08

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC432299	0.5000	0.5360	107	75-125		
BSD	QC432300	0.5000	0.5280	106	75-125	2	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	1065EX305[6.0]	Batch#:	135836
MSS Lab ID:	201748-001	Sampled:	03/06/08
Matrix:	Soil	Received:	03/06/08
Units:	mg/Kg	Prepared:	03/11/08
Basis:	dry	Analyzed:	03/11/08

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC432302	0.02549	0.5160	0.6037	112	75-125	15%		
MSD	QC432303		0.5549	0.6238	108	75-125	15%	4	35

RPD= Relative Percent Difference

20.0

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 201748 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
201748-001	MET08	03/10/08 12:35	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
201748-001	MET08	03/10/08 13:34	1.0																	
201748-001	MET14	03/11/08 16:51	1.0										+							
201748-002	MET08	03/10/08 12:50	1.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
201748-002	MET08	03/10/08 13:43	1.0													+				
201748-002	MET14	03/11/08 17:01	1.0										+							
QC431869	MET08	03/10/08 11:32	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431870	MET08	03/10/08 11:37	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431871	MET08	03/10/08 11:40	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431872	MET08	03/10/08 11:46	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431873	MET08	03/10/08 11:48	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC431874	MET08	03/10/08 11:53	5.0	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+
QC431874	MET08	03/10/08 12:14	5.0													+				
QC431875	MET08	03/10/08 11:55	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC432298	MET14	03/11/08 16:45	1.0										+							
QC432299	MET14	03/11/08 16:47	1.0										+							
QC432300	MET14	03/11/08 16:49	1.0										+							
QC432301	MET14	03/11/08 16:54	5.0										+							
QC432302	MET14	03/11/08 16:56	1.0										+							
QC432303	MET14	03/11/08 16:58	1.0										+							

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 88101354 Instrument: MET08 PE ICP Begun: 10-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	031008r	ICALBLK				10-MAR-2008 09:14	1.0	1.0				
002	031008r	ICAL	CRIM08			10-MAR-2008 09:19	1.0	1.0			1	
003	031008r	ICAL	CS100			10-MAR-2008 09:23	1.0	1.0			2	
004	031008r	ICAL	CS1K			10-MAR-2008 09:26	1.0	1.0			3	
005	031008r	ICAL	CS10K			10-MAR-2008 09:29	1.0	1.0			4	
006	031008r	ICAL	CS100K			10-MAR-2008 09:34	1.0	1.0			5	
007	031008r	ICV				10-MAR-2008 09:38	1.0	1.0		5000	6	
008	031008r	ICB				10-MAR-2008 09:42	1.0	1.0		5000		
009	031008r	ICSA				10-MAR-2008 09:46	1.0	1.0		5000	7	10:AL=502051
010	031008r	ICSAB				10-MAR-2008 09:55	1.0	1.0		5000	8	5:AL=501559
011	031008r	BLANK	QC431967	135754	WET Le	10-MAR-2008 10:00	10.0	5.0	1	5000		1:NA=161832
012	031008r	BS	QC431968	135754	WET Le	10-MAR-2008 10:04	1.0	1.0		5000		
013	031008r	BSD	QC431969	135754	WET Le	10-MAR-2008 10:07	1.0	1.0		5000		
014	031008r	MSS	201743-004	135754	WET Le	10-MAR-2008 10:11	10.0	5.0	1	5000		1:NA=164638
015	031008r	MS	QC431970	135754	WET Le	10-MAR-2008 10:14	10.0	5.0		5000		1:NA=164569
016	031008r	MSD	QC431971	135754	WET Le	10-MAR-2008 10:17	10.0	5.0		5000		1:NA=156334
017	031008r	SER	QC431972	135754	WET Le	10-MAR-2008 10:20	50.0	5.0		5000		
018	031008r	PDS	QC431973	135754	WET Le	10-MAR-2008 10:24	10.0	5.0	1	5000	9 10	1:NA=176462
019	031008r	CCV				10-MAR-2008 10:27	1.0	1.0		5000	11	
020	031008r	CCB				10-MAR-2008 10:31	1.0	1.0		5000		
021	031008r	SAMPLE	201743-001	135754	WET Le	10-MAR-2008 10:35	10.0	5.0		5000		1:NA=146588
022	031008r	SAMPLE	201743-002	135754	WET Le	10-MAR-2008 10:39	10.0	5.0		5000		1:NA=153818
023	031008r	SAMPLE	201743-003	135754	WET Le	10-MAR-2008 10:42	10.0	5.0		5000		1:NA=150329
024	031008r	SAMPLE	201743-005	135754	WET Le	10-MAR-2008 10:45	10.0	5.0		5000		1:NA=162427
025	031008r	SAMPLE	201743-006	135754	WET Le	10-MAR-2008 10:48	10.0	5.0		5000		1:NA=170238
026	031008r	SAMPLE	201743-007	135754	WET Le	10-MAR-2008 10:52	10.0	5.0		5000		1:NA=154205
027	031008r	SAMPLE	201743-008	135754	WET Le	10-MAR-2008 10:55	10.0	5.0		5000		1:NA=174450
028	031008r	SAMPLE	201743-009	135754	WET Le	10-MAR-2008 10:58	10.0	5.0		5000		1:NA=159443
029	031008r	SAMPLE	201743-010	135754	WET Le	10-MAR-2008 11:02	10.0	5.0		5000		1:NA=162080
030	031008r	SAMPLE	201640-001	135754	WET Le	10-MAR-2008 11:05	10.0	5.0		5000		2:FE=198925
031	031008r	CCV				10-MAR-2008 11:07	1.0	1.0		5000	11	

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8252 8=S8351 9=S6918 10=S6919 11=S8614

Analyst: _____ Date: 3/10/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 88101354 Instrument: MET08 PE ICP Begun: 10-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	031008r	CCB				10-MAR-2008 11:11	1.0	1.0			5000		
033	031008r	SAMPLE	201735-001	135754	WET Le	10-MAR-2008 11:16	10.0	5.0			5000		1:NA=147991
034	031008r	ICSAB				10-MAR-2008 11:20	1.0	1.0			5000	8	5:AL=536427
035	031008r	CCV				10-MAR-2008 11:24	1.0	1.0			5000	11	
036	031008r	CCB				10-MAR-2008 11:29	1.0	1.0			5000		
037	031008r	BLANK	QC431869	135731	Soil	10-MAR-2008 11:32	1.0	50.0			5000		
038	031008r	BS	QC431870	135731	Soil	10-MAR-2008 11:37	1.0	50.0		1	5000		
039	031008r	BSD	QC431871	135731	Soil	10-MAR-2008 11:40	1.0	50.0			5000		
040	031008r	MSS	201743-001	135731	Soil	10-MAR-2008 11:43	1.0	45.87	5		5000		5:FE=460003
041	031008r	MS	QC431872	135731	Soil	10-MAR-2008 11:46	1.0	48.08			5000		5:FE=460026
042	031008r	MSD	QC431873	135731	Soil	10-MAR-2008 11:48	1.0	50.0		1	5000		5:FE=451986
043	031008r	MSS	201743-001	135731	Soil	10-MAR-2008 11:50	1.0	45.87	5		5000		5:FE=471227
044	031008r	SER	QC431874	135731	Soil	10-MAR-2008 11:53	5.0	45.87		14	5000		1:FE=122773
045	031008r	PDS	QC431875	135731	Soil	10-MAR-2008 11:55	1.0	45.87		2	5000	9 10	5:FE=453119
046	031008r	SAMPLE	201743-002	135731	Soil	10-MAR-2008 11:58	1.0	47.17	1		5000		6:FE=515327
047	031008r	CCV				10-MAR-2008 12:00	1.0	1.0			5000	11	
048	031008r	CCB				10-MAR-2008 12:04	1.0	1.0			5000		
049	031008r	SAMPLE	201743-003	135731	Soil	10-MAR-2008 12:09	1.0	48.08			5000		5:FE=458299
050	031008r	SAMPLE	201743-004	135731	Soil	10-MAR-2008 12:11	1.0	48.54			5000		5:FE=490405
051	031008r	SER	QC431874	135731	Soil	10-MAR-2008 12:14	5.0	45.87	1	14	5000		1:FE=117550
052	031008r	SAMPLE	201743-005	135731	Soil	10-MAR-2008 12:16	1.0	48.54			5000		3:FE=635760
053	031008r	SAMPLE	201743-006	135731	Soil	10-MAR-2008 12:19	1.0	49.50			5000		6:FE=483125
054	031008r	SAMPLE	201743-007	135731	Soil	10-MAR-2008 12:21	1.0	48.08			5000		5:FE=416651
055	031008r	SAMPLE	201743-008	135731	Soil	10-MAR-2008 12:23	1.0	50.0	1		5000		5:FE=457150
056	031008r	SAMPLE	201743-009	135731	Soil	10-MAR-2008 12:28	1.0	48.08			5000		5:FE=539170
057	031008r	SAMPLE	201743-010	135731	Soil	10-MAR-2008 12:30	1.0	47.62			5000		6:FE=614233
058	031008r	SAMPLE	201748-001	135731	Soil	10-MAR-2008 12:35	1.0	44.64			5000		3:FE=330797
059	031008r	X				10-MAR-2008 12:37	1.0					11	
060	031008r	X				10-MAR-2008 12:39	1.0					11	
061	031008r	CCV				10-MAR-2008 12:41	1.0	1.0			5000	11	
062	031008r	CCB				10-MAR-2008 12:46	1.0	1.0			5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8252 8=S8351 9=S6918 10=S6919 11=S8614

Analyst: _____ Date: 3/10/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 88101354 Instrument: MET08 PE ICP Begun: 10-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	031008r	SAMPLE	201748-002	135731	Soil	10-MAR-2008 12:50	1.0	50.0	1	5000	3:FE=312423	
064	031008r	SAMPLE	201763-001	135731	Miscel	10-MAR-2008 12:53	1.0	49.50	1	5000	2:NA=308961	
065	031008r	SAMPLE	201764-001	135731	Miscel	10-MAR-2008 12:56	1.0	50.0	3	5000	4:FE=2357688	
066	031008r	SAMPLE	201765-001	135731	Soil	10-MAR-2008 12:59	1.0	48.54	1	5000	6:FE=514786	
067	031008r	SAMPLE	201743-002	135731	Soil	10-MAR-2008 13:01	1.0	47.17	1	5000	6:FE=539273	
068	031008r	SAMPLE	201743-003	135731	Soil	10-MAR-2008 13:03	1.0	48.08		5000	5:FE=438635	
069	031008r	SAMPLE	201743-004	135731	Soil	10-MAR-2008 13:06	1.0	48.54		5000	5:FE=463598	
070	031008r	SAMPLE	201743-005	135731	Soil	10-MAR-2008 13:08	1.0	48.54		5000	3:FE=594869	
071	031008r	SAMPLE	201743-007	135731	Soil	10-MAR-2008 13:11	1.0	48.08		5000	5:FE=393553	
072	031008r	SAMPLE	201743-008	135731	Soil	10-MAR-2008 13:13	1.0	50.0	1	5000	5:FE=423726	
073	031008r	X				10-MAR-2008 13:18	1.0				11	
074	031008r	CCV				10-MAR-2008 13:19	1.0	1.0	2	5000	11	
075	031008r	CCB				10-MAR-2008 13:23	1.0	1.0		5000		
076	031008r	SAMPLE	201743-009	135731	Soil	10-MAR-2008 13:27	1.0	48.08		5000	5:FE=536575	
077	031008r	SAMPLE	201743-010	135731	Soil	10-MAR-2008 13:30	1.0	47.62		5000	6:FE=576869	
078	031008r	SAMPLE	201748-001	135731	Soil	10-MAR-2008 13:34	1.0	44.64		5000	3:FE=301722	
079	031008r	SAMPLE	201743-002	135731	Soil	10-MAR-2008 13:37	10.0	47.17		5000		
080	031008r	SAMPLE	201743-008	135731	Soil	10-MAR-2008 13:40	10.0	50.0		5000		
081	031008r	SAMPLE	201748-002	135731	Soil	10-MAR-2008 13:43	1.0	50.0		5000	3:FE=285602	
082	031008r	SAMPLE	201763-001	135731	Miscel	10-MAR-2008 13:46	10.0	49.50		5000		
083	031008r	SAMPLE	201764-001	135731	Miscel	10-MAR-2008 13:49	1.0	50.0	3	5000	4:FE=2133799	
084	031008r	SAMPLE	201765-001	135731	Soil	10-MAR-2008 13:53	1.0	48.54		5000	5:FE=460294	
085	031008r	SAMPLE	201764-001	135731	Miscel	10-MAR-2008 13:55	10.0	50.0	1	5000	1:FE=299866	
086	031008r	ICSAB				10-MAR-2008 13:57	1.0	1.0		5000	8 5:AL=494081	
087	031008r	X				10-MAR-2008 14:02	1.0	1.0	2	5000	11	
088	031008r	CCV				10-MAR-2008 14:03	1.0	1.0	2	5000	11	
089	031008r	CCB				10-MAR-2008 14:07	1.0	1.0		5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8252 8=S8351 9=S6918 10=S6919 11=S8614

Analyst: _____ Date: 3/10/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 88101354001
Units : ug/L

Date : 10-MAR-2008 09:14
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	031008r	88101354002	CRIM08	10-MAR-2008 09:19	S8428
L2	031008r	88101354003	CS100	10-MAR-2008 09:23	S8350
L3	031008r	88101354004	CS1K	10-MAR-2008 09:26	S8349
L4	031008r	88101354005	CS10K	10-MAR-2008 09:29	S8393
L5	031008r	88101354006	CS100K	10-MAR-2008 09:34	S8370

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	28.842	31.252	31.645	31.864		LOR0	0.00000	0.03139		30.901	1.000	0.995	
Arsenic	A	18.637	20.854	21.146	21.328		LOR0	0.00000	0.04689		20.491	1.000	0.995	
Barium	A	306.13	342.95	347.25	338.74		LOR0	0.00000	0.00295		333.77	1.000	0.995	
Beryllium	A	3126.2	3161.2	3163.3			LOR0	0.00000	3.16E-4		3150.3	1.000	0.995	
Boron	A	138.69		148.41	151.82		LOR0	0.00000	0.00659		146.30	1.000	0.995	
Cadmium	A	341.45	348.47	352.79	343.47		LOR0	0.00000	0.00291		346.54	1.000	0.995	
Chromium	A	62.219	65.112	67.076	67.375		LOR0	0.00000	0.01484		65.446	1.000	0.995	
Cobalt	A	103.99	111.39	114.87	114.50		LOR0	0.00000	0.00873		111.19	1.000	0.995	
Copper	A	397.99	390.31	389.26	389.66		LOR0	0.00000	0.00257		391.80	1.000	0.995	
Lead	A	51.451	56.740	56.704	57.040		LOR0	0.00000	0.01753		55.484	1.000	0.995	
Manganese	A	1254.6	1314.2	1314.3	1293.0		LOR0	0.00000	7.73E-4		1294.0	1.000	0.995	
Molybdenum	A	35.017	35.477	35.851	36.145		LOR0	0.00000	0.02767		35.623	1.000	0.995	
Nickel	A	43.204	43.750	45.413	45.467		LOR0	0.00000	0.02199		44.459	1.000	0.995	
Selenium	A	13.412	30.091	31.084	31.731		LOR0	0.00000	0.03152		26.579	1.000	0.995	
Silver	A	436.81	460.02	468.04	484.94		LOR0	0.00000	0.00208		462.45	1.000	0.995	
Thallium	A	14.256	18.455	18.854	18.413		LOR0	0.00000	0.05430		17.495	1.000	0.995	
Tin	A	24.537	24.195	24.879	26.655		LOR0	0.00000	0.03754		25.067	1.000	0.995	
Titanium	A	957.09	1048.3	1044.3	1016.8		LOR0	0.00000	9.83E-4		1016.6	1.000	0.995	
Vanadium	A	89.018	96.489	97.955	99.618		LOR0	0.00000	0.01004		95.770	1.000	0.995	
Zinc	A	130.82	106.63	108.96	108.48		LOR0	0.00000	0.00922		113.72	1.000	0.995	
Aluminum	R	1.0083		1.0021	0.9393	0.9311	LOR0	0.00000	1.07388		0.9702	1.000	0.995	
Calcium	R	13.739		14.240	12.477	12.638	LOR0	0.00000	0.07913		13.274	1.000	0.995	
Iron	R	5.0244		5.4931	5.0895	5.2997	LOR0	0.00000	0.18876		5.2267	1.000	0.995	
Magnesium	R	1.5227		1.6063	1.4764	1.5125	LOR0	0.00000	0.66129		1.5295	1.000	0.995	
Potassium	R	5.5358		5.3510	4.8626	5.3788	LOR0	0.00000	0.18609		5.2821	1.000	0.995	
Sodium	R	8.9694		9.7850	9.5258	9.7906	LOR0	0.00000	0.10217		9.5177	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-9	100.0	-2	1000	-1	10000	0		
Arsenic	A	5.000	-13	100.0	-2	1000	-1	10000	0		
Barium	A	5.000	-10	100.0	1	1000	2	10000	0		
Beryllium	A	2.000	-1	100.0	0	1000	0				
Boron	A	100.0	-9			1000	-2	10000	0		
Cadmium	A	5.000	-1	100.0	1	1000	3	10000	0		
Chromium	A	5.000	-8	100.0	-3	1000	0	10000	0		
Cobalt	A	5.000	-9	100.0	-3	1000	0	10000	0		
Copper	A	5.000	2	100.0	0	1000	0	10000	0		
Lead	A	3.000	-10	100.0	-1	1000	-1	10000	0		
Manganese	A	5.000	-3	100.0	2	1000	2	10000	0		
Molybdenum	A	5.000	-3	100.0	-2	1000	-1	10000	0		
Nickel	A	5.000	-5	100.0	-4	1000	0	10000	0		
Selenium	A	5.000	-58	100.0	-5	1000	-2	10000	0		
Silver	A	5.000	-9	100.0	-4	1000	-3	2000	1		
Thallium	A	5.000	-23	100.0	0	1000	2	10000	0		
Tin	A	40.00	-8	100.0	-9	1000	-7	10000	0		
Titanium	A	10.00	-6	100.0	3	1000	3	10000	0		
Vanadium	A	5.000	-11	100.0	-3	1000	-2	10000	0		
Zinc	A	20.00	21	100.0	-2	1000	0	10000	0		
Aluminum	R	100.0	8			1000	8	10000	1	100000	0
Calcium	R	200.0	9			1000	13	10000	-1	100000	0
Iron	R	100.0	-5			1000	4	10000	-4	100000	0
Magnesium	R	200.0	1			1000	6	10000	-2	100000	0
Potassium	R	500.0	3			1000	0	10000	-10	100000	0
Sodium	R	500.0	-8			1000	0	10000	-3	100000	0

0015

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 3/10/2008 9:14:57 AM
Data Type: Reprocessed on 3/10/2008 9:54:31 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	117.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	4084.0	233.69	5.72%	[0.00]	ug/L
Al 308.215 R	17.4	6.99	40.14%	[0.00]	ug/L
As 188.979	57.6	31.36	54.46%	[0.00]	ug/L
B 249.677	122.4	22.40	18.31%	[0.00]	ug/L
Ba 233.527	-156.9	22.56	14.38%	[0.00]	ug/L
Be 313.107	5286.6	101.75	1.92%	[0.00]	ug/L
Ca 315.887 R	587.0	18.97	3.23%	[0.00]	ug/L
Cd 214.440	180.7	4.95	2.74%	[0.00]	ug/L
Co 228.616	-358.7	13.40	3.74%	[0.00]	ug/L
Cr 267.716	-479.2	2.75	0.57%	[0.00]	ug/L
Cu 324.752	5948.2	107.82	1.81%	[0.00]	ug/L
Fe 238.204 R	295.6	4.19	1.42%	[0.00]	ug/L
K 766.490 R	2943.1	423.98	14.41%	[0.00]	ug/L
Mg 279.077 R	-75.2	3.29	4.37%	[0.00]	ug/L
Mn 257.610	2599.4	13.27	0.51%	[0.00]	ug/L
Mo 202.031	13.0	16.72	128.30%	[0.00]	ug/L
Na 589.592 R	-12106.1	153.81	1.27%	[0.00]	ug/L
Ni 231.604	-606.1	11.06	1.82%	[0.00]	ug/L
Pb 220.353	32.5	7.50	23.10%	[0.00]	ug/L
Sb 206.836	-17.2	15.21	88.41%	[0.00]	ug/L
Se 196.026	347.6	201.89	58.08%	[0.00]	ug/L
Ti 334.940 R	451.9	68.73	15.21%	[0.00]	ug/L
Tl 190.801	-66.8	9.62	14.40%	[0.00]	ug/L
V 292.402	131.6	0.40	0.30%	[0.00]	ug/L
Zn 206.200	-50.0	8.04	16.07%	[0.00]	ug/L
Sn 189.927	-46.8	12.11	25.85%	[0.00]	ug/L

Sequence No.: 2 Autosampler Location: 2
Sample ID: ICAL,CRIM08 Date Collected: 3/10/2008 9:19:03 AM
Analyst: Data Type: Reprocessed on 3/10/2008 9:54:32 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	117.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Y 371.029	2536520.1	11152.75	0.44%	100.0	%
Y	166619.9	11053.55	6.63%	100.0	%
Ag 328.068†	2184.0	226.39	10.37%	[5.0]	ug/L
Al 308.215 R†	100.8	20.65	20.48%	[100]	ug/L
As 188.979†	93.2	36.40	39.06%	[5.0]	ug/L
B 249.677†	13868.7	185.47	1.34%	[100]	ug/L
Ba 233.527†	1530.7	10.39	0.68%	[5.0]	ug/L
Be 313.107†	6252.4	135.13	2.16%	[2.0]	ug/L
Ca 315.887 R†	2747.9	229.30	8.34%	[200]	ug/L
Cd 214.440†	1707.2	23.79	1.39%	[5.0]	ug/L
Co 228.616†	520.0	11.55	2.22%	[5.0]	ug/L
Cr 267.716†	311.1	13.38	4.30%	[5.0]	ug/L
Cu 324.752†	1990.0	173.88	8.74%	[5.0]	ug/L
Fe 238.204 R†	502.4	56.18	11.18%	[100]	ug/L
K 766.490 R†	2767.9	300.05	10.84%	[500]	ug/L
Mg 279.077 R†	304.5	17.39	5.71%	[200]	ug/L
Mn 257.610†	6273.0	100.25	1.60%	[5.0]	ug/L
Mo 202.031†	175.1	11.52	6.58%	[5.0]	ug/L
Na 589.592 R†	4484.7	453.10	10.10%	[500]	ug/L
Ni 231.604†	216.0	3.28	1.52%	[5.0]	ug/L
Pb 220.353†	154.4	12.01	7.78%	[3.0]	ug/L
Sb 206.836†	144.2	66.24	45.93%	[5.0]	ug/L
Se 196.026†	67.1	66.26	98.80%	[5.0]	ug/L
Ti 334.940 R†	9570.9	64.05	0.67%	[10]	ug/L
Tl 190.801†	71.3	16.25	22.79%	[5.0]	ug/L
V 292.402†	445.1	17.11	3.84%	[5.0]	ug/L
Zn 206.200†	2616.4	61.62	2.35%	[20]	ug/L
Sn 189.927†	981.5	8.56	0.87%	[40]	ug/L

Sequence No.: 3 Autosampler Location: 3
Sample ID: ICAL,CS100 Date Collected: 3/10/2008 9:23:12 AM
Analyst: Data Type: Reprocessed on 3/10/2008 9:54:33 AM
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	117.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2513782.0	91957.20	3.66%	99.10	%
Y	159774.7	704.07	0.44%	95.89	%
Ag 328.068†	46002.3	2101.88	4.57%	[100]	ug/L
As 188.979†	2085.4	72.18	3.46%	[100]	ug/L
Ba 233.527†	34294.5	1337.43	3.90%	[100]	ug/L
Be 313.107†	316124.3	11678.57	3.69%	[100]	ug/L
Cd 214.440†	34846.9	1216.80	3.49%	[100]	ug/L
Co 228.616†	11138.6	429.80	3.86%	[100]	ug/L
Cr 267.716†	6511.2	233.25	3.58%	[100]	ug/L
Cu 324.752†	39030.5	1836.99	4.71%	[100]	ug/L
Mn 257.610†	131415.1	4924.40	3.75%	[100]	ug/L
Mo 202.031†	3547.7	117.86	3.32%	[100]	ug/L
Ni 231.604†	4375.0	147.70	3.38%	[100]	ug/L
Pb 220.353†	5674.0	187.82	3.31%	[100]	ug/L
Sb 206.836†	3125.2	84.69	2.71%	[100]	ug/L
Se 196.026†	3009.1	90.79	3.02%	[100]	ug/L
Ti 334.940 R†	104830.5	3479.33	3.32%	[100]	ug/L
Tl 190.801†	1845.5	76.02	4.12%	[100]	ug/L
V 292.402†	9648.9	418.69	4.34%	[100]	ug/L
Zn 206.200†	10662.7	386.33	3.62%	[100]	ug/L
Sn 189.927†	2419.5	71.75	2.97%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/10/2008 9:26:23 AM
Data Type: Reprocessed on 3/10/2008 9:54:34 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	117.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2516493.7	24945.49	0.99%	99.21	%
Y	162538.2	3195.49	1.97%	97.55	%
Ag 328.068†	468041.1	7693.07	1.64%	[1000]	ug/L
Al 308.215 R†	1002.1	67.77	6.76%	[1000]	ug/L
As 188.979†	21145.7	240.12	1.14%	[1000]	ug/L
B 249.677†	148405.8	2308.41	1.56%	[1000]	ug/L
Ba 233.527†	347247.5	6835.81	1.97%	[1000]	ug/L
Be 313.107†	3163332.4	73794.94	2.33%	[1000]	ug/L
Ca 315.887 R†	14240.2	503.76	3.54%	[1000]	ug/L
Cd 214.440†	352790.0	6066.79	1.72%	[1000]	ug/L
Co 228.616†	114868.9	2081.15	1.81%	[1000]	ug/L
Cr 267.716†	67076.4	1232.25	1.84%	[1000]	ug/L
Cu 324.752†	389255.1	7141.26	1.83%	[1000]	ug/L
Fe 238.204 R†	5493.1	170.25	3.10%	[1000]	ug/L
K 766.490 R†	5351.0	239.64	4.48%	[1000]	ug/L
Mg 279.077 R†	1606.3	67.61	4.21%	[1000]	ug/L
Mn 257.610†	1314329.7	32770.60	2.49%	[1000]	ug/L
Mo 202.031†	35851.1	429.05	1.20%	[1000]	ug/L
Na 589.592 R†	9785.0	204.33	2.09%	[1000]	ug/L
Ni 231.604†	45413.0	710.55	1.56%	[1000]	ug/L
Pb 220.353†	56703.9	705.51	1.24%	[1000]	ug/L
Sb 206.836†	31644.7	360.30	1.14%	[1000]	ug/L
Se 196.026†	31083.5	514.02	1.65%	[1000]	ug/L
Ti 334.940 R†	1044251.5	26069.30	2.50%	[1000]	ug/L
Tl 190.801†	18854.4	254.63	1.35%	[1000]	ug/L
V 292.402†	97955.3	1446.38	1.48%	[1000]	ug/L
Zn 206.200†	108955.4	1994.66	1.83%	[1000]	ug/L
Sn 189.927†	24878.9	317.30	1.28%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 3/10/2008 9:29:41 AM
Data Type: Reprocessed on 3/10/2008 9:54:36 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	118.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2499542.3	23325.04	0.93%	98.54	%
Y	168095.1	3174.84	1.89%	100.9	%
Ag 328.068†	969885.4	16081.18	1.66%	[2000]	ug/L
Al 308.215 R†	9392.7	185.76	1.98%	[10000]	ug/L
As 188.979†	213278.6	3950.46	1.85%	[10000]	ug/L
B 249.677†	1518204.5	23254.16	1.53%	[10000]	ug/L
Ba 233.527†	3387384.8	49775.01	1.47%	[10000]	ug/L
Ca 315.887 R†	124769.9	2170.62	1.74%	[10000]	ug/L
Cd 214.440†	3434674.9	52648.95	1.53%	[10000]	ug/L
Co 228.616†	1145028.3	16873.29	1.47%	[10000]	ug/L
Cr 267.716†	673753.6	11002.96	1.63%	[10000]	ug/L
Cu 324.752†	3896561.5	55729.30	1.43%	[10000]	ug/L
Fe 238.204 R†	50894.9	910.56	1.79%	[10000]	ug/L
K 766.490 R†	48626.3	252.57	0.52%	[10000]	ug/L
Mg 279.077 R†	14763.6	168.91	1.14%	[10000]	ug/L
Mn 257.610†	12929798.2	180846.63	1.40%	[10000]	ug/L
Mo 202.031†	361447.9	5868.26	1.62%	[10000]	ug/L
Na 589.592 R†	95258.3	1046.18	1.10%	[10000]	ug/L
Ni 231.604†	454674.1	8649.09	1.90%	[10000]	ug/L
Pb 220.353†	570395.6	9480.45	1.66%	[10000]	ug/L
Sb 206.836†	318641.7	5517.50	1.73%	[10000]	ug/L
Se 196.026†	317312.6	6432.33	2.03%	[10000]	ug/L
Ti 334.940 R†	10167988.2	132412.72	1.30%	[10000]	ug/L
Tl 190.801†	184134.7	2978.11	1.62%	[10000]	ug/L
V 292.402†	996183.0	17893.21	1.80%	[10000]	ug/L
Zn 206.200†	1084795.7	16568.17	1.53%	[10000]	ug/L
Sn 189.927†	266554.7	4351.01	1.63%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 3/10/2008 9:34:08 AM
Data Type: Reprocessed on 3/10/2008 9:54:36 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	119.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2400517.7	48343.21	2.01%	94.64	%
Y	165623.3	4715.47	2.85%	99.40	%
Al 308.215 R†	93111.6	1658.50	1.78%	[100000]	ug/L
Ca 315.887 R†	1263829.5	17282.96	1.37%	[100000]	ug/L
Fe 238.204 R†	529968.6	6853.96	1.29%	[100000]	ug/L
K 766.490 R†	537875.4	8580.15	1.60%	[100000]	ug/L
Mg 279.077 R†	151253.7	1993.49	1.32%	[100000]	ug/L
Na 589.592 R†	979058.4	16005.02	1.63%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	481.5	0.00000	0.999900	
Al 308.215 R	4	Lin Thru 0	0.0	0.9312	0.00000	0.999999	
As 188.979	4	Lin Thru 0	0.0	21.33	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	151.8	0.00000	0.999997	
Ba 233.527	4	Lin Thru 0	0.0	338.8	0.00000	0.999997	
Be 313.107	3	Lin Thru 0	0.0	3163	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	12.64	0.00000	0.999998	
Cd 214.440	4	Lin Thru 0	0.0	343.6	0.00000	0.999996	
Co 228.616	4	Lin Thru 0	0.0	114.5	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	67.37	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	389.7	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	5.298	0.00000	0.999992	
K 766.490 R	4	Lin Thru 0	0.0	5.374	0.00000	0.999955	
Mg 279.077 R	4	Lin Thru 0	0.0	1.512	0.00000	0.999997	
Mn 257.610	4	Lin Thru 0	0.0	1293	0.00000	0.999999	
Mo 202.031	4	Lin Thru 0	0.0	36.14	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	9.788	0.00000	0.999996	
Ni 231.604	4	Lin Thru 0	0.0	45.47	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	57.04	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	31.86	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	31.72	0.00000	0.999998	
Ti 334.940 R	4	Lin Thru 0	0.0	1017	0.00000	0.999996	
Tl 190.801	4	Lin Thru 0	0.0	18.42	0.00000	0.999997	
V 292.402	4	Lin Thru 0	0.0	99.60	0.00000	0.999999	
Zn 206.200	4	Lin Thru 0	0.0	108.5	0.00000	1.000000	
Sn 189.927	4	Lin Thru 0	0.0	26.64	0.00000	0.999978	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08
Seqnum : 88101354007
Cal : 88101354001
Standards: S8613

File : 031008r
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 09:38

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	30.901	31.917	5000	5009	ug/L	0	10	
Arsenic	A	20.491	21.684	5000	5084	ug/L	2	10	
Barium	A	333.77	345.26	5000	5095	ug/L	2	10	
Beryllium	A	3150.3	3250.4	500.0	513.8	ug/L	3	10	
Boron	A	146.30	150.87	5000	4970	ug/L	-1	10	
Cadmium	A	346.54	347.50	5000	5057	ug/L	1	10	
Chromium	A	65.446	65.438	5000	4856	ug/L	-3	10	
Cobalt	A	111.19	112.20	5000	4889	ug/L	-2	10	
Copper	A	391.80	385.96	5000	4953	ug/L	-1	10	
Lead	A	55.484	55.817	5000	4893	ug/L	-2	10	
Manganese	A	1294.0	1296.9	5000	5014	ug/L	0	10	
Molybdenum	A	35.623	35.665	5000	4934	ug/L	-1	10	
Nickel	A	44.459	44.245	5000	4866	ug/L	-3	10	
Selenium	A	26.579	31.880	5000	5025	ug/L	0	10	
Silver	A	462.45	488.84	1000	1015	ug/L	2	10	
Thallium	A	17.495	18.288	5000	4965	ug/L	-1	10	
Tin	A	25.067	25.848	5000	4852	ug/L	-3	10	
Titanium	A	1016.6	1014.6	5000	4988	ug/L	0	10	
Vanadium	A	95.770	97.549	5000	4897	ug/L	-2	10	
Zinc	A	113.72	106.25	5000	4897	ug/L	-2	10	
Aluminum	R	0.9702	0.8967	20000	19260	ug/L	-4	10	
Calcium	R	13.274	12.423	20000	19660	ug/L	-2	10	
Iron	R	5.2267	5.1829	20000	19570	ug/L	-2	10	
Magnesium	R	1.5295	1.5014	20000	19860	ug/L	-1	10	
Potassium	R	5.2821	4.8387	20000	18010	ug/L	-10	10	
Sodium	R	9.5177	9.5947	20000	19610	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2484249	-2.06

88101354007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88101354008 File : 031008r
Cal : 88101354001 Caldate : 10-MAR-2008
IDF : 1.0
Time : 10-MAR-2008 09:42

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2568164	1.25

88101354008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 88101354009 File : 031008r Time : 10-MAR-2008 09:46
Cal : 88101354001 Caldate : 10-MAR-2008
Standards: S8252

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[-8.657]	5.000	ug/L	!a-
Arsenic	A	[2.371]	5.000	ug/L	
Barium	A	[-1.744]	5.000	ug/L	!a-
Beryllium	A	[-0.2762]	2.000	ug/L	!a-
Boron	A	[-1.749]	100.0	ug/L	
Cadmium	A	[-0.9010]	5.000	ug/L	!a-
Cobalt	A	[1.278]	5.000	ug/L	!a+
Lead	A	[-2.945]	3.000	ug/L	!a-
Molybdenum	A	[-1.515]	5.000	ug/L	
Selenium	A	7.945	5.000	ug/L	!a+
Silver	A	[0.1878]	5.000	ug/L	
Thallium	A	[4.027]	5.000	ug/L	!a+
Tin	A	[-16.92]	40.00	ug/L	!a-
Zinc	A	[8.805]	20.00	ug/L	!a+
Potassium	R	[-299.4]	500.0	ug/L	!a-
Sodium	R	[74.74]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19150	ug/L	96
Copper	A	20000	20500	ug/L	102
Manganese	A	20000	18830	ug/L	94
Nickel	A	20000	18640	ug/L	93
Titanium	A	20000	20030	ug/L	100
Vanadium	A	20000	19450	ug/L	97
Aluminum	R	500000	502100	ug/L	100
Calcium	R	500000	490900	ug/L	98
Iron	R	200000	191300	ug/L	96
Magnesium	R	500000	494000	ug/L	99

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2279010	-10.15

!=warning +=high bias -=low bias a=ICSA

88101354009

00159

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 88101354010 File : 031008r Time : 10-MAR-2008 09:55
Cal : 88101354001 Caldate : 10-MAR-2008
Standards: S8351

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	519.3	ug/L	4	20	
Arsenic	A	500.0	530.2	ug/L	6	20	
Barium	A	500.0	530.0	ug/L	6	20	
Beryllium	A	500.0	537.9	ug/L	8	20	
Cadmium	A	1000	1005	ug/L	0	20	
Chromium	A	500.0	484.5	ug/L	-3	20	
Cobalt	A	500.0	467.2	ug/L	-7	20	
Copper	A	500.0	493.4	ug/L	-1	20	
Lead	A	1000	933.3	ug/L	-7	20	
Manganese	A	500.0	476.7	ug/L	-5	20	
Molybdenum	A	500.0	491.2	ug/L	-2	20	
Nickel	A	1000	966.6	ug/L	-3	20	
Selenium	A	500.0	507.7	ug/L	2	20	
Silver	A	1000	1046	ug/L	5	20	
Thallium	A	500.0	438.0	ug/L	-12	20	
Titanium	A	20000	20150	ug/L	1		
Vanadium	A	500.0	527.0	ug/L	5	20	
Zinc	A	1000	976.5	ug/L	-2	20	
Aluminum	R	500000	501600	ug/L	0		
Calcium	R	500000	486700	ug/L	-3		
Iron	R	200000	191700	ug/L	-4		
Magnesium	R	500000	490600	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2310773	-8.90

88101354010

00160

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 88101354019 File : 031008r
Cal : 88101354001 Caldate : 10-MAR-2008
Standards: S8614

IDF : 1.0
Time : 10-MAR-2008 10:27

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.901	32.675	5000	5128	ug/L	3	10	
Arsenic	A	20.491	22.076	5000	5176	ug/L	4	10	
Barium	A	333.77	350.94	5000	5179	ug/L	4	10	
Beryllium	A	3150.3	3282.0	500.0	518.8	ug/L	4	10	
Boron	A	146.30	151.94	5000	5005	ug/L	0	10	
Cadmium	A	346.54	359.64	5000	5234	ug/L	5	10	
Chromium	A	65.446	66.363	5000	4925	ug/L	-1	10	
Cobalt	A	111.19	114.53	5000	4991	ug/L	0	10	
Copper	A	391.80	392.96	5000	5042	ug/L	1	10	
Lead	A	55.484	56.715	5000	4972	ug/L	-1	10	
Manganese	A	1294.0	1322.1	5000	5112	ug/L	2	10	
Molybdenum	A	35.623	36.383	5000	5033	ug/L	1	10	
Nickel	A	44.459	45.384	5000	4991	ug/L	0	10	
Selenium	A	26.579	32.519	5000	5125	ug/L	3	10	
Silver	A	462.45	496.58	1000	1031	ug/L	3	10	
Thallium	A	17.495	18.177	5000	4935	ug/L	-1	10	
Tin	A	25.067	26.082	5000	4896	ug/L	-2	10	
Titanium	A	1016.6	1031.5	5000	5071	ug/L	1	10	
Vanadium	A	95.770	99.244	5000	4982	ug/L	0	10	
Zinc	A	113.72	108.91	5000	5020	ug/L	0	10	
Aluminum	R	0.9702	0.9384	20000	20150	ug/L	1	10	
Calcium	R	13.274	13.000	20000	20570	ug/L	3	10	
Iron	R	5.2267	5.4490	20000	20570	ug/L	3	10	
Magnesium	R	1.5295	1.5826	20000	20930	ug/L	5	10	
Potassium	R	5.2821	4.9767	20000	18520	ug/L	-7	10	
Sodium	R	9.5177	9.6190	20000	19650	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2496531	-1.58

88101354019

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88101354020 File : 031008r IDF : 1.0
Cal : 88101354001 Caldate : 10-MAR-2008 Time : 10-MAR-2008 10:31

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2585769	1.94

88101354020

00162

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 88101354031
Cal : 88101354001
Standards: S8614

File : 031008r
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 11:07

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.901	33.392	5000	5240	ug/L	5	10	
Arsenic	A	20.491	22.617	5000	5303	ug/L	6	10	
Barium	A	333.77	355.97	5000	5253	ug/L	5	10	
Beryllium	A	3150.3	3329.7	500.0	526.3	ug/L	5	10	
Boron	A	146.30	153.83	5000	5067	ug/L	1	10	
Cadmium	A	346.54	368.20	5000	5359	ug/L	7	10	
Chromium	A	65.446	67.348	5000	4998	ug/L	0	10	
Cobalt	A	111.19	116.54	5000	5079	ug/L	2	10	
Copper	A	391.80	399.42	5000	5125	ug/L	3	10	
Lead	A	55.484	57.790	5000	5066	ug/L	1	10	
Manganese	A	1294.0	1344.5	5000	5198	ug/L	4	10	
Molybdenum	A	35.623	36.935	5000	5110	ug/L	2	10	
Nickel	A	44.459	46.177	5000	5078	ug/L	2	10	
Selenium	A	26.579	33.209	5000	5234	ug/L	5	10	
Silver	A	462.45	503.87	1000	1046	ug/L	5	10	
Thallium	A	17.495	18.353	5000	4982	ug/L	0	10	
Tin	A	25.067	26.610	5000	4995	ug/L	0	10	
Titanium	A	1016.6	1045.6	5000	5140	ug/L	3	10	
Vanadium	A	95.770	100.59	5000	5050	ug/L	1	10	
Zinc	A	113.72	111.23	5000	5127	ug/L	3	10	
Aluminum	R	0.9702	0.9465	20000	20330	ug/L	2	10	
Calcium	R	13.274	13.104	20000	20740	ug/L	4	10	
Iron	R	5.2267	5.5073	20000	20790	ug/L	4	10	
Magnesium	R	1.5295	1.5813	20000	20910	ug/L	5	10	
Potassium	R	5.2821	5.0342	20000	18740	ug/L	-6	10	
Sodium	R	9.5177	9.4453	20000	19300	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2463952	-2.86

88101354031

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 88101354032 File : 031008r Time : 10-MAR-2008 11:11
Cal : 88101354001 Caldate : 10-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2626179	3.53

88101354032

00164

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 88101354034
Cal : 88101354001
Standards: S8351

File : 031008r
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 11:20

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	547.6	ug/L	10	20	
Arsenic	A	500.0	572.0	ug/L	14	20	
Barium	A	500.0	553.2	ug/L	11	20	
Beryllium	A	500.0	559.0	ug/L	12	20	
Cadmium	A	1000	1080	ug/L	8	20	
Chromium	A	500.0	518.7	ug/L	4	20	
Cobalt	A	500.0	501.9	ug/L	0	20	
Copper	A	500.0	515.2	ug/L	3	20	
Lead	A	1000	1006	ug/L	1	20	
Manganese	A	500.0	501.0	ug/L	0	20	
Molybdenum	A	500.0	525.6	ug/L	5	20	
Nickel	A	1000	1021	ug/L	2	20	
Selenium	A	500.0	550.2	ug/L	10	20	
Silver	A	1000	1090	ug/L	9	20	
Thallium	A	500.0	473.2	ug/L	-5	20	
Titanium	A	20000	21070	ug/L	5		
Vanadium	A	500.0	549.5	ug/L	10	20	
Zinc	A	1000	1042	ug/L	4	20	
Aluminum	R	500000	536400	ug/L	7		
Calcium	R	500000	508900	ug/L	2		
Iron	R	200000	205500	ug/L	3		
Magnesium	R	500000	526000	ug/L	5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2233335	-11.95

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 88101354035 File : 031008r Time : 10-MAR-2008 11:24
Cal : 88101354001 Caldate : 10-MAR-2008
Standards: S8614

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.901	33.026	5000	5183	ug/L	4	10	
Arsenic	A	20.491	22.311	5000	5231	ug/L	5	10	
Barium	A	333.77	354.12	5000	5226	ug/L	5	10	
Beryllium	A	3150.3	3297.2	500.0	521.2	ug/L	4	10	
Boron	A	146.30	152.48	5000	5023	ug/L	0	10	
Cadmium	A	346.54	363.95	5000	5297	ug/L	6	10	
Chromium	A	65.446	66.725	5000	4952	ug/L	-1	10	
Cobalt	A	111.19	115.58	5000	5037	ug/L	1	10	
Copper	A	391.80	396.54	5000	5088	ug/L	2	10	
Lead	A	55.484	57.717	5000	5060	ug/L	1	10	
Manganese	A	1294.0	1335.1	5000	5162	ug/L	3	10	
Molybdenum	A	35.623	36.705	5000	5078	ug/L	2	10	
Nickel	A	44.459	45.816	5000	5038	ug/L	1	10	
Selenium	A	26.579	32.930	5000	5190	ug/L	4	10	
Silver	A	462.45	499.41	1000	1037	ug/L	4	10	
Thallium	A	17.495	18.225	5000	4948	ug/L	-1	10	
Tin	A	25.067	26.599	5000	4993	ug/L	0	10	
Titanium	A	1016.6	1040.3	5000	5114	ug/L	2	10	
Vanadium	A	95.770	99.911	5000	5016	ug/L	0	10	
Zinc	A	113.72	109.80	5000	5061	ug/L	1	10	
Aluminum	R	0.9702	0.9451	20000	20300	ug/L	1	10	
Calcium	R	13.274	13.089	20000	20720	ug/L	4	10	
Iron	R	5.2267	5.4961	20000	20750	ug/L	4	10	
Magnesium	R	1.5295	1.5760	20000	20840	ug/L	4	10	
Potassium	R	5.2821	5.0168	20000	18670	ug/L	-7	10	
Sodium	R	9.5177	9.5065	20000	19420	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2462831	-2.91

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 88101354036 File : 031008r Time : 10-MAR-2008 11:29
Cal : 88101354001 Caldate : 10-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2632233	3.77

88101354036

00167

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 88101354047
Cal : 88101354001
Standards: S8614

File : 031008r
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 12:00

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.901	33.224	5000	5214	ug/L	4	10	
Arsenic	A	20.491	22.469	5000	5268	ug/L	5	10	
Barium	A	333.77	358.08	5000	5284	ug/L	6	10	
Beryllium	A	3150.3	3355.7	500.0	530.4	ug/L	6	10	
Boron	A	146.30	155.21	5000	5113	ug/L	2	10	
Cadmium	A	346.54	369.29	5000	5375	ug/L	7	10	
Chromium	A	65.446	67.465	5000	5007	ug/L	0	10	
Cobalt	A	111.19	117.31	5000	5112	ug/L	2	10	
Copper	A	391.80	400.96	5000	5145	ug/L	3	10	
Lead	A	55.484	57.637	5000	5053	ug/L	1	10	
Manganese	A	1294.0	1353.1	5000	5232	ug/L	5	10	
Molybdenum	A	35.623	37.120	5000	5135	ug/L	3	10	
Nickel	A	44.459	46.339	5000	5096	ug/L	2	10	
Selenium	A	26.579	33.181	5000	5230	ug/L	5	10	
Silver	A	462.45	504.21	1000	1047	ug/L	5	10	
Thallium	A	17.495	18.374	5000	4988	ug/L	0	10	
Tin	A	25.067	26.582	5000	4990	ug/L	0	10	
Titanium	A	1016.6	1052.5	5000	5174	ug/L	3	10	
Vanadium	A	95.770	100.87	5000	5063	ug/L	1	10	
Zinc	A	113.72	111.81	5000	5153	ug/L	3	10	
Aluminum	R	0.9702	0.9544	20000	20500	ug/L	2	10	
Calcium	R	13.274	13.113	20000	20750	ug/L	4	10	
Iron	R	5.2267	5.5159	20000	20820	ug/L	4	10	
Magnesium	R	1.5295	1.5837	20000	20950	ug/L	5	10	
Potassium	R	5.2821	5.0355	20000	18740	ug/L	-6	10	
Sodium	R	9.5177	9.2981	20000	19000	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2484465	-2.05

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88101354048
Cal : 88101354001
File : 031008r
Caldate : 10-MAR-2008
IDF : 1.0
Time : 10-MAR-2008 12:04

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2546948	0.41

88101354048

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 88101354061 File : 031008r Time : 10-MAR-2008 12:41
Cal : 88101354001 Caldate : 10-MAR-2008
Standards: S8614

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.901	32.432	5000	5089	ug/L	2	10	
Arsenic	A	20.491	21.905	5000	5136	ug/L	3	10	
Barium	A	333.77	341.18	5000	5035	ug/L	1	10	
Beryllium	A	3150.3	3169.2	500.0	500.9	ug/L	0	10	
Boron	A	146.30	148.60	5000	4895	ug/L	-2	10	
Cadmium	A	346.54	360.13	5000	5241	ug/L	5	10	
Chromium	A	65.446	64.153	5000	4761	ug/L	-5	10	
Cobalt	A	111.19	112.20	5000	4889	ug/L	-2	10	
Copper	A	391.80	382.75	5000	4911	ug/L	-2	10	
Lead	A	55.484	56.286	5000	4934	ug/L	-1	10	
Manganese	A	1294.0	1293.7	5000	5002	ug/L	0	10	
Molybdenum	A	35.623	35.647	5000	4932	ug/L	-1	10	
Nickel	A	44.459	44.572	5000	4902	ug/L	-2	10	
Selenium	A	26.579	32.454	5000	5115	ug/L	2	10	
Silver	A	462.45	465.78	1000	967.3	ug/L	-3	10	
Thallium	A	17.495	17.451	5000	4738	ug/L	-5	10	
Tin	A	25.067	26.130	5000	4905	ug/L	-2	10	
Titanium	A	1016.6	1011.0	5000	4970	ug/L	-1	10	
Vanadium	A	95.770	96.302	5000	4834	ug/L	-3	10	
Zinc	A	113.72	107.65	5000	4961	ug/L	-1	10	
Aluminum	R	0.9702	0.9595	20000	20610	ug/L	3	10	
Calcium	R	13.274	13.114	20000	20760	ug/L	4	10	
Iron	R	5.2267	5.5508	20000	20960	ug/L	5	10	
Magnesium	R	1.5295	1.5903	20000	21030	ug/L	5	10	
Potassium	R	5.2821	4.9619	20000	18470	ug/L	-8	10	
Sodium	R	9.5177	9.0396	20000	18470	ug/L	-8	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2530910	-0.22

88101354061

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 88101354062 File : 031008r Time : 10-MAR-2008 12:46
Cal : 88101354001 Caldate : 10-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	[0.2935]	2.000	0.2339	ug/L	!ib
Boron	A	[34.13]	100.0	30.00	ug/L	!ib
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2521558	-0.59

!=warning ib=instrument blank

88101354062

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 88101354074
Cal : 88101354001
Standards: S8614

File : 031008r
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 13:19

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.901	32.469	5000	5095	ug/L	2	10	
Arsenic	A	20.491	22.099	5000	5181	ug/L	4	10	
Barium	A	333.77	343.66	5000	5071	ug/L	1	10	
Beryllium	A	3150.3	3185.7	500.0	503.5	ug/L	1	10	
Boron	A	146.30	149.80	5000	4935	ug/L	-1	10	
Cadmium	A	346.54	360.32	5000	5244	ug/L	5	10	
Chromium	A	65.446	64.620	5000	4796	ug/L	-4	10	
Cobalt	A	111.19	112.82	5000	4916	ug/L	-2	10	
Copper	A	391.80	383.76	5000	4924	ug/L	-2	10	
Lead	A	55.484	56.619	5000	4963	ug/L	-1	10	
Manganese	A	1294.0	1299.8	5000	5026	ug/L	1	10	
Molybdenum	A	35.623	35.941	5000	4972	ug/L	-1	10	
Nickel	A	44.459	44.913	5000	4939	ug/L	-1	10	
Selenium	A	26.579	32.884	5000	5183	ug/L	4	10	
Silver	A	462.45	468.71	1000	973.4	ug/L	-3	10	
Thallium	A	17.495	17.805	5000	4834	ug/L	-3	10	
Tin	A	25.067	26.411	5000	4958	ug/L	-1	10	
Titanium	A	1016.6	1015.6	5000	4993	ug/L	0	10	
Vanadium	A	95.770	96.893	5000	4864	ug/L	-3	10	
Zinc	A	113.72	108.28	5000	4991	ug/L	0	10	
Aluminum	R	0.9702	0.8677	20000	18640	ug/L	-7	10	
Calcium	R	13.274	11.954	20000	18920	ug/L	-5	10	
Iron	R	5.2267	5.0592	20000	19100	ug/L	-5	10	
Magnesium	R	1.5295	1.4538	20000	19230	ug/L	-4	10	
Potassium	R	5.2821	4.5079	20000	16780	ug/L	**-16**	10	c- ***
Sodium	R	9.5177	8.4739	20000	17320	ug/L	**-13**	10	c- ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2522745	-0.54

-=low bias c=CCV

88101354074

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88101354075
Cal : 88101354001
File : 031008r
Caldate : 10-MAR-2008
IDF : 1.0
Time : 10-MAR-2008 13:23

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2616536	3.15

88101354075

00173

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 88101354086
Cal : 88101354001
Standards: S8351

File : 031008r
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 13:57

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	549.2	ug/L	10	20	
Arsenic	A	500.0	573.6	ug/L	15	20	
Barium	A	500.0	537.1	ug/L	7	20	
Beryllium	A	500.0	534.7	ug/L	7	20	
Cadmium	A	1000	1076	ug/L	8	20	
Chromium	A	500.0	504.5	ug/L	1	20	
Cobalt	A	500.0	497.5	ug/L	0	20	
Copper	A	500.0	499.1	ug/L	0	20	
Lead	A	1000	1005	ug/L	1	20	
Manganese	A	500.0	489.3	ug/L	-2	20	
Molybdenum	A	500.0	518.5	ug/L	4	20	
Nickel	A	1000	1003	ug/L	0	20	
Selenium	A	500.0	549.6	ug/L	10	20	
Silver	A	1000	1052	ug/L	5	20	
Thallium	A	500.0	452.3	ug/L	-10	20	
Titanium	A	20000	20900	ug/L	5		
Vanadium	A	500.0	532.0	ug/L	6	20	
Zinc	A	1000	1023	ug/L	2	20	
Aluminum	R	500000	494100	ug/L	-1		
Calcium	R	500000	469300	ug/L	-6		
Iron	R	200000	188300	ug/L	-6		
Magnesium	R	500000	479300	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2368288	-6.63

88101354086

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 88101354088
Cal : 88101354001
Standards: S8614

File : 031008r
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 14:03

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.901	31.955	5000	5015	ug/L	0	10	
Arsenic	A	20.491	21.684	5000	5084	ug/L	2	10	
Barium	A	333.77	339.80	5000	5014	ug/L	0	10	
Beryllium	A	3150.3	3144.3	500.0	497.0	ug/L	-1	10	
Boron	A	146.30	148.39	5000	4888	ug/L	-2	10	
Cadmium	A	346.54	361.48	5000	5261	ug/L	5	10	
Chromium	A	65.446	63.679	5000	4726	ug/L	-5	10	
Cobalt	A	111.19	112.05	5000	4883	ug/L	-2	10	
Copper	A	391.80	380.32	5000	4880	ug/L	-2	10	
Lead	A	55.484	55.580	5000	4872	ug/L	-3	10	
Manganese	A	1294.0	1289.1	5000	4984	ug/L	0	10	
Molybdenum	A	35.623	35.739	5000	4944	ug/L	-1	10	
Nickel	A	44.459	44.710	5000	4917	ug/L	-2	10	
Selenium	A	26.579	32.353	5000	5099	ug/L	2	10	
Silver	A	462.45	461.66	1000	958.7	ug/L	-4	10	
Thallium	A	17.495	17.325	5000	4703	ug/L	-6	10	
Tin	A	25.067	25.821	5000	4847	ug/L	-3	10	
Titanium	A	1016.6	1004.8	5000	4939	ug/L	-1	10	
Vanadium	A	95.770	95.786	5000	4808	ug/L	-4	10	
Zinc	A	113.72	108.13	5000	4984	ug/L	0	10	
Aluminum	R	0.9702	0.8716	20000	18720	ug/L	-6	10	
Calcium	R	13.274	11.916	20000	18860	ug/L	-6	10	
Iron	R	5.2267	5.0391	20000	19020	ug/L	-5	10	
Magnesium	R	1.5295	1.4474	20000	19140	ug/L	-4	10	
Potassium	R	5.2821	4.4632	20000	16610	ug/L	**-17**	10	c- ***
Sodium	R	9.5177	8.1970	20000	16750	ug/L	**-16**	10	c- ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2584972	1.91

-=low bias c=CCV

88101354088

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 88101354089 File : 031008r IDF : 1.0
Cal : 88101354001 Caldate : 10-MAR-2008 Time : 10-MAR-2008 14:07

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	1.927	ug/L	
Arsenic	A	ND	5.000	2.774	ug/L	
Barium	A	ND	5.000	0.6424	ug/L	
Beryllium	A	ND	2.000	0.2339	ug/L	
Boron	A	ND	100.0	30.00	ug/L	
Cadmium	A	ND	5.000	0.7109	ug/L	
Chromium	A	ND	5.000	0.6597	ug/L	
Cobalt	A	ND	5.000	0.6224	ug/L	
Copper	A	ND	5.000	3.155	ug/L	
Lead	A	ND	3.000	2.299	ug/L	
Manganese	A	ND	5.000	1.156	ug/L	
Molybdenum	A	ND	5.000	2.768	ug/L	
Nickel	A	ND	5.000	1.293	ug/L	
Selenium	A	ND	5.000	3.972	ug/L	
Silver	A	ND	5.000	1.500	ug/L	
Thallium	A	ND	5.000	2.262	ug/L	
Tin	A	ND	40.00	5.545	ug/L	
Titanium	A	ND	10.00	2.025	ug/L	
Vanadium	A	ND	5.000	1.213	ug/L	
Zinc	A	ND	20.00	6.111	ug/L	
Aluminum	R	ND	100.0	49.72	ug/L	
Calcium	R	ND	200.0	127.4	ug/L	
Iron	R	ND	100.0	16.11	ug/L	
Magnesium	R	ND	200.0	24.40	ug/L	
Potassium	R	ND	500.0	92.87	ug/L	
Sodium	R	ND	500.0	138.0	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2536520	2581468	1.77

88101354089

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 848103223 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 11-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	135836	ICALBLK	STD01REP1				11-MAR-2008 16:23	1.0	1.0									
002	135836	ICAL	STD02REP1				11-MAR-2008 16:26	1.0	1.0									
003	135836	ICAL	STD03REP1				11-MAR-2008 16:28	1.0	1.0									
004	135836	ICAL	STD04REP1				11-MAR-2008 16:31	1.0	1.0									
005	135836	ICAL	STD05REP1				11-MAR-2008 16:33	1.0	1.0									
006	135836	ICAL	STD06REP1				11-MAR-2008 16:35	1.0	1.0									
007	135836	ICV					11-MAR-2008 16:41	1.0	1.0	2	5.000	848103223001	5.080		ug/L	102		
008	135836	ICB					11-MAR-2008 16:43	1.0	1.0			848103223001	ND	0.20	ug/L			
009	135836	BLANK	QC432298		135836	Soil	11-MAR-2008 16:45	1.0	100.0			848103223001	ND	0.020	mg/Kg			u
010	135836	BS	QC432299		135836	Soil	11-MAR-2008 16:47	1.0	100.0		0.5000	848103223001	0.5360	0.020	mg/Kg	107		u
011	135836	BSD	QC432300		135836	Soil	11-MAR-2008 16:49	1.0	100.0		0.5000	848103223001	0.5280	0.020	mg/Kg	106	2	u
012	135836	MSS	201748-001		135836	Soil	11-MAR-2008 16:51	1.0	79.37			848103223001	0.022	0.020	mg/Kg			u
013	135836	SER	QC432301	201748-001	135836	Soil	11-MAR-2008 16:54	5.0	79.37			848103223001	ND	0.079	mg/Kg	--		u
014	135836	MS	QC432302	201748-001	135836	Soil	11-MAR-2008 16:56	1.0	87.72		0.4386	848103223001	0.5132	0.020	mg/Kg	112		u
015	135836	MSD	QC432303	201748-001	135836	Soil	11-MAR-2008 16:58	1.0	94.34		0.4717	848103223001	0.5302	0.020	mg/Kg	108	4	u
016	135836	SAMPLE	201748-002		135836	Soil	11-MAR-2008 17:01	1.0	94.34			848103223001	0.031	0.020	mg/Kg			u
017	135836	SAMPLE	201764-001		135836	Miscel	11-MAR-2008 17:03	1.0	98.04			848103223001	ND	0.020	mg/Kg			u
018	135836	SAMPLE	201781-001		135836	Soil	11-MAR-2008 17:05	1.0	89.29			848103223001	0.12	0.020	mg/Kg			u
019	135836	CCV					11-MAR-2008 17:08	1.0	1.0	3	2.500	848103223001	2.690		ug/L	108		
020	135836	CCB					11-MAR-2008 17:10	1.0	1.0			848103223001	ND	0.20	ug/L			
021	135836	SAMPLE	201781-002		135836	Soil	11-MAR-2008 17:12	1.0	75.76			848103223001	0.045	0.020	mg/Kg			u
022	135836	SAMPLE	201781-003		135836	Soil	11-MAR-2008 17:14	1.0	84.75			848103223001	0.042	0.020	mg/Kg			u
023	135836	SAMPLE	201781-004		135836	Soil	11-MAR-2008 17:16	1.0	89.29			848103223001	ND	0.020	mg/Kg			u
024	135836	SAMPLE	201781-005		135836	Soil	11-MAR-2008 17:18	1.0	100.0			848103223001	ND	0.020	mg/Kg			u
025	135836	SAMPLE	201781-006		135836	Soil	11-MAR-2008 17:20	1.0	92.59			848103223001	ND	0.020	mg/Kg			u
026	135836	SAMPLE	201781-007		135836	Soil	11-MAR-2008 17:22	1.0	86.21			848103223001	0.022	0.020	mg/Kg			u
027	135836	SAMPLE	201781-008		135836	Soil	11-MAR-2008 17:24	1.0	89.29			848103223001	0.026	0.020	mg/Kg			u
028	135836	SAMPLE	201781-009		135836	Soil	11-MAR-2008 17:26	1.0	74.63			848103223001	0.042	0.020	mg/Kg			u
029	135836	SAMPLE	201781-010		135836	Soil	11-MAR-2008 17:29	1.0	87.72			848103223001	ND	0.020	mg/Kg			u
030	135836	SAMPLE	201781-011		135836	Soil	11-MAR-2008 17:31	1.0	89.29			848103223001	ND	0.020	mg/Kg			u
031	135836	CCV					11-MAR-2008 17:33	1.0	1.0	4	5.000	848103223001	5.350		ug/L	107		
032	135836	CCB					11-MAR-2008 17:35	1.0	1.0			848103223001	ND	0.20	ug/L			

Stds used: 1=S8642 2=S8644 3=S8645 4=S8646
Flags used: u=use

Analyst: _____ Date: 3/12/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET14
Calnum : 848103223001
Units : ug/L

Date : 11-MAR-2008 16:23
X Axis : R

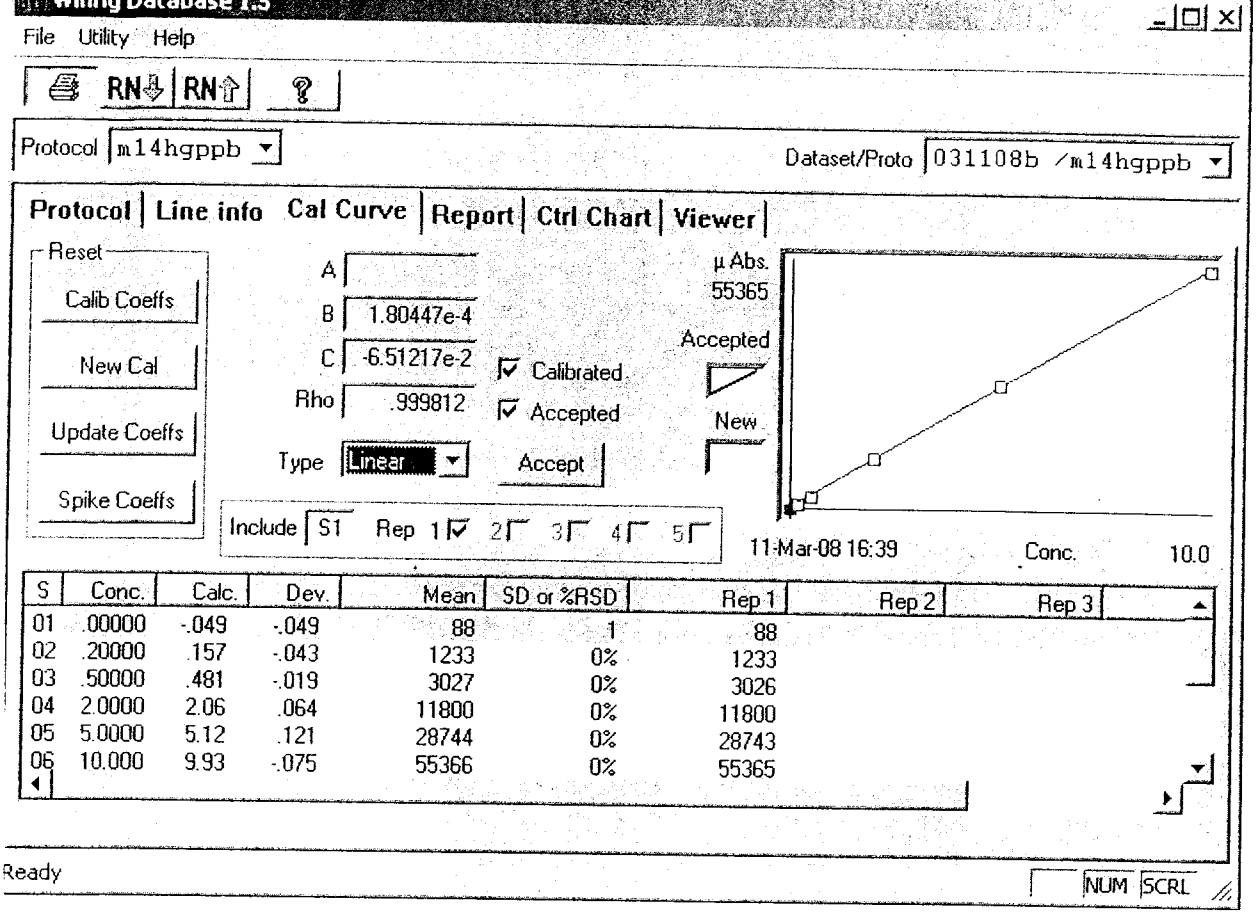
Reviewer : ---
Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	135836	848103223002	STD02REP1	11-MAR-2008 16:26	S8642 (500X)
L2	135836	848103223003	STD03REP1	11-MAR-2008 16:28	S8642 (200X)
L3	135836	848103223004	STD04REP1	11-MAR-2008 16:31	S8642 (50X)
L4	135836	848103223005	STD05REP1	11-MAR-2008 16:33	S8642 (20X)
L5	135836	848103223006	STD06REP1	11-MAR-2008 16:35	S8642 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	6165.0	6052.0	5900.0	5748.6	5536.5	LINR	-0.0651	1.80E-4		5880.4	1.000	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Mercury	0.200	-21	0.500	-4	2.000	3	5.000	2	10.00	-1

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression


Wiring Database 1.5
File Utility Help
RN RN
Protocol m14hgppb
Dataset/Proto 031108b /m14hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 1.80447e-4
C -6.51217e-2
Rho .999812
Type Linear
Calibrated
Accepted
Accept
µ Abs.
55365
Accepted
New
Include S1 Rep 1 2 3 4 5
11-Mar-08 16:39
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.049 -.049 88 1 88
02 .20000 .157 -.043 1233 0% 1233
03 .50000 .481 -.019 3027 0% 3026
04 2.0000 2.06 .064 11800 0% 11800
05 5.0000 5.12 .121 28744 0% 28743
06 10.000 9.93 -.075 55366 0% 55365
Ready
NUM SCRL

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		16:23:45 11 Mar 08			HG
Hg	.000	ppb	88						
		Bkgd 1	8605724						
*** Standard: 2 Rep: 1				Seq: 2		16:26:12 11 Mar 08			HG
Hg	.200	ppb	1233						
		Bkgd 1	8612120						
*** Standard: 3 Rep: 1				Seq: 3		16:28:35 11 Mar 08			HG
Hg	.500	ppb	3026						
		Bkgd 1	8613893						
*** Standard: 4 Rep: 1				Seq: 4		16:31:00 11 Mar 08			HG
Hg	2.00	ppb	11800						
		Bkgd 1	8618087						
*** Standard: 5 Rep: 1				Seq: 5		16:33:06 11 Mar 08			HG
Hg	5.00	ppb	28743						
		Bkgd 1	8618622						
*** Standard: 6 Rep: 1				Seq: 6		16:35:11 11 Mar 08			HG
Hg	10.0	ppb	55365						
		Bkgd 1	8619407						
*** Check Standard: 2			Ck2s8644	Seq: 7		16:41:09 11 Mar 08			HG
Line	Flag		Intensities						
Hg			28539						
		Bkgd 1	8631186						
*** Check Standard: 1			Ck1ICB	Seq: 8		16:43:24 11 Mar 08			HG
Line	Flag		Intensities						
Hg			17						
		Bkgd 1	8632443						
*** Sample ID: qc432298				Seq: 9		16:45:37 11 Mar 08			HG
			135836,1						
Hg	-.039	ppb	143						
		Bkgd 1	8635220						

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	201743-001	Batch#:	135731
Lab ID:	QC431874	Sampled:	03/05/08
Matrix:	Soil	Received:	03/06/08
Units:	mg/Kg	Analyzed:	03/10/08

Moisture: 16%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	1.177	0.5952	ND	1.365	NC	10
Arsenic	9.918	0.2976	12.76	1.365	29 *	10
Barium	243.8	0.2976	292.1	1.365	20 *	10
Beryllium	0.5127	0.1190	0.6906	0.5461	35 *	10
Cadmium	0.4506	0.2976	0.5386 J	1.365	20 *	10
Chromium	47.12	0.2976	55.46	1.365	18 *	10
Cobalt	12.98	0.2976	15.55	1.365	20 *	10
Copper	153.4	0.2976	177.2	1.365	16 *	10
Lead	36.39	0.2504	43.51	1.252	20 *	10
Molybdenum	0.06497	0.2976	ND	1.365	NC	10
Nickel	47.67	0.2976	57.18	1.365	20 *	10
Selenium	0.8980	0.5952	2.679	1.365	NC	10
Silver	0.1817	0.2976	0.4654 J	1.365	NC	10
Thallium	ND	0.5952	0.8055 J	1.365	NC	10
Vanadium	50.65	0.2976	58.87	1.365	16 *	10
Zinc	145.4	1.190	176.5	5.461	21 *	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

17.0

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : PDS
Inst : MET08
Seqnum : 88101354045
File : 031008r
IDF : 1.0
Lab ID : QC431875
Matrix : Soil
Batch : 135731
Time : 10-MAR-2008 11:55
Cal : 88101354001
MSS : 201743-001
Units : ug/L

PDS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF

PDS standards: S6918 (100X), S6919 (100X)

Analyte	MSS Seqnum	Result	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	88101354040	21.55	A	2000	1785	A	88	75-125	!<a- u
Arsenic	88101354040	181.6	A	1000	1074	A	89	75-125	u
Barium	88101354040	4465	A	2000	6092	A	81	75-125	!<a- u
Beryllium	88101354040	9.389	A	50.00	53.75	A	89	75-125	!<a- u
Cadmium	88101354040	8.251	A	200.0	180.9	A	86	75-125	!<a- u
Chromium	88101354040	862.9	A	2000	2476	A	81	75-125	u
Cobalt	88101354040	237.7	A	500.0	635.1	A	79	75-125	!<a+ u
Copper	88101354040	2809	A	250.0	2979	A	68	75-125	: u
Lead	88101354040	666.4	A	2000	2261	A	80	75-125	!<a- u
Molybdenum	88101354040	1.190	A	400.0	347.9	A	87	75-125	u
Nickel	88101354040	872.9	A	500.0	1241	A	**74***	75-125	u
Potassium	88101354040	27430	R	10000	35080	R	76	75-125	!<a- u
Selenium	88101354043	16.44	A	1000	904.2	A	89	75-125	!<a+ u
Silver	88101354040	3.327	A	200.0	133.1	A	**65***	75-125	u
Sodium	88101354040	10530	R	20000	26130	R	78	75-125	u
Thallium	88101354040	ND	A	1000	766.3	A	77	75-125	!<a+ u
Vanadium	88101354040	927.4	A	500.0	1327	A	80	75-125	u
Zinc	88101354040	2663	A	500.0	3035	A	75	75-125	!<a+ : u
Boron	88101354040	108.2	A	1000	951.8	A	84	75-125	u
Tin	88101354040	131.1	A	1000	964.2	A	83	75-125	!<a- u
Titanium	88101354040	7792	A	1000	8514	A	72	75-125	: u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2536520	2798830	10.34

!=warning +=high bias -=low bias :=recovery not meaningful <=opening a=ICSA u=use

881 01354045

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201748	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	1065EX305[6.0]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	135836
MSS Lab ID:	201748-001	Sampled:	03/06/08
Lab ID:	QC432301	Received:	03/06/08
Matrix:	Soil	Analyzed:	03/11/08
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.02549	0.02353	ND	0.09337	15%	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

19.0

Curtis & Tompkins Laboratories Sample Preparation Summary 07-MAR-2008 20:27

Batch Number : 135731
Date Extracted: 07-MAR-2008
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S8385
Spike #2 ID : S8386
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
201743-001			CH2M Hill Constructors Inc.	Soil	1.09	g	50	45.871560	1				T26/ICP		
201743-002			CH2M Hill Constructors Inc.	Soil	1.06	g	50	47.169811	1				T26/ICP		
201743-003			CH2M Hill Constructors Inc.	Soil	1.04	g	50	48.076923	1				T26/ICP		
201743-004			CH2M Hill Constructors Inc.	Soil	1.03	g	50	48.543689	1				T26/ICP		
201743-005			CH2M Hill Constructors Inc.	Soil	1.03	g	50	48.543689	1				T26/ICP		
201743-006			CH2M Hill Constructors Inc.	Soil	1.01	g	50	49.504950	1				T26/ICP		
201743-007			CH2M Hill Constructors Inc.	Soil	1.04	g	50	48.076923	1				T26/ICP		
201743-008			CH2M Hill Constructors Inc.	Soil	1	g	50	50.000000	1				T26/ICP		
201743-009			CH2M Hill Constructors Inc.	Soil	1.04	g	50	48.076923	1				T26/ICP		
201743-010			CH2M Hill Constructors Inc.	Soil	1.05	g	50	47.619048	1				T26/ICP		
201748-001			Mactec, Inc.	Soil	1.12	g	50	44.642857	1				T26/ICP		
201748-002			Mactec, Inc.	Soil	1	g	50	50.000000	1				T26/ICP		
201763-001			ConocoPhillips Company	Miscell.	1.01	g	50	49.504950	1				V		
201764-001			ConocoPhillips Company	Miscell.	1	g	50	50.000000	1				T26/ICP		
201765-001			ConocoPhillips Company	Soil	1.03	g	50	48.543689	1				T26/ICP		
QC431869	BLANK			Soil	1	g	50	50.000000	1				ICAP		
QC431870	BS			Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC431871	BSD			Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC431872	MS	of 201743-001		Soil	1.04	g	50	48.076923	1	.5	.5		ICAP		
QC431873	MSD	of 201743-001		Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC431874	SER	of 201743-001		Soil	1.09	g	50	45.871560	1				ICAP		
QC431875	PDS	of 201743-001		Soil	1.09	g	50	45.871560	1				ICAP		

Prep Chemist: Michael Crockett 3/7/08 Reviewed By: [signature] Date: 3/10/08

Relinquished By: Michael Crockett 3/7/08 Received By: [signature] Date: 3/10/08

[signature] 3/10/08

135731

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 135731
Date Digested: 3/7/08
Digested by: MCB III

Digestion Method
☒ EPA 3050b
☐ _____

BK 2624
Page 69

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLANK	Ø	50	Y	
BS	↓	↓	↓	
BSD	↓	↓	↓	
MS-743-001H	1.04			
MSD-743-001	1.00			
201743-001	1.09			
-002	1.06			
-003	1.04			
-004	1.03			
-005	1.03			
-006	1.01			
-007	1.04			
-008	1.00			
-009	1.04			
-010	1.05			
201748-001 G	1.12			
-002	1.00			
201763-001 A.B.C.	1.01			201763-001 IS A COMPOSITE 3 JARS 2.0GR
201765-001 A	1.03			
201764-001	1.00			

TIME 8:00PM

	Reagent ID or LIMS #	Initials / Date
Class-A digestion tubes, lot#	4514-19426-261-216	MCB III 3/7/08
digestion temperature (90 - 95 degrees C)	95°C	
.5 mL of spike solution was added to all spikes	S8385	
	S8386	
1:1 HNO3	E27027 HDAMER	
concentrated HNO3	Y81024	
3mL 30% hydrogen peroxide	E31A08	
concentrated HCl	E40060	
☒ filtered thru' Whatman # 541	H11206690	
Relinquished to ICP group		

Michael Brock III 3/7/08
Extraction Chemist / Date

Continued from page _____
Continued on page 4

Dan Dunn 3/7/2008
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 12-MAR-2008 08:54

Batch Number : 135836
Date Extracted: 11-MAR-2008
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S8642
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
201748-001			Mactec, Inc.	Soil	.63	g	50	79.365079	1					T26/HG		
201748-002			Mactec, Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
201764-001			ConocoPhillips Company	Miscell.	.51	g	50	98.039216	1					T26/HG		
201781-001			Willdan Resources	Soil	.56	g	50	89.285714	1					RCRA/HG		
201781-002			Willdan Resources	Soil	.66	g	50	75.757576	1					RCRA/HG		
201781-003			Willdan Resources	Soil	.59	g	50	84.745763	1					RCRA/HG		
201781-004			Willdan Resources	Soil	.56	g	50	89.285714	1					RCRA/HG		
201781-005			Willdan Resources	Soil	.5	g	50	100.000000	1					RCRA/HG		
201781-006			Willdan Resources	Soil	.54	g	50	92.592593	1					RCRA/HG		
201781-007			Willdan Resources	Soil	.58	g	50	86.206897	1					RCRA/HG		
201781-008			Willdan Resources	Soil	.56	g	50	89.285714	1					RCRA/HG		
201781-009			Willdan Resources	Soil	.67	g	50	74.626866	1					RCRA/HG		
201781-010			Willdan Resources	Soil	.57	g	50	87.719298	1					RCRA/HG		
201781-011			Willdan Resources	Soil	.56	g	50	89.285714	1					RCRA/HG		
QC432298	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC432299	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC432300	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC432301	SER	of 201748-001		Soil	.63	g	50	79.365079	1					HG		
QC432302	MS	of 201748-001		Soil	.57	g	50	87.719298	1		2.5			HG		
QC432303	MSD	of 201748-001		Soil	.53	g	50	94.339623	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 3/12/08

Relinquished By: _____ Received By: _____ Date: 3/11/08

9015

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 135836

Date Digested: 3/11/08

Digestion Method

☒ EPA 7471A

☐ _____

BK 2680

Sample #	container ID	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
201748-001	6	0.63	50.0	Y	MSS
02	6	0.53			
201764-001	A	0.51			
201781-001		0.56			
02		0.66			
03		0.54			
04		0.56			
05		0.50			
06		0.51			
07		0.58			
08		0.56			
09		0.67			
10		0.57			
11		0.56			
201800-001		0.56			Data Not Used SXM 3/11/08
MB QC432295		0.50			
BS 299					
BSD 300					
MS 02		0.57			
MSD 03		0.53			

SXM 3/11/08

	Reagent ID/ LIMS# /Time	Initials / Date
Digestion Tubes, Lot #	CU071202	
25 mL of spike standard was added to all spikes	88642	SXM 3/11/08
ICAL Source LIMS S#	↓	
ICV / CCV LIMS S#	88644/45/46/47	
Digestion Temperature (degrees C)	95°C SXM 3/11/08	
Digestion Started at (time)	~~AR031108~~ 13:45	
Aqua Regia Acids (HNO3+ HCl)	AR031108	
5% $KMnO_4$	KO30508	
NaCl.hydroxylamine hydrochloride	Hy_{031108}	
Stannous Chloride	$SnCl_2$ 031008	
Digestion Completd at (time)	14:15	
☒ filtered thru' 0.45 um syringe filter (lot #)	RTCN29862	

3/11/08

Prep Chemist / Date

Continued from page ____

Continued on page ____

3/11/08

Reviewed by / Date

Curtis & Tompkins, Ltd.

Moisture Data

Percent Moisture Summary Report

Batch: 135880
Date: 03/12/08
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
201581-001	11.3285	17.2250	16.3133	85	15
201581-005	11.3786	18.0838	17.3194	89	11
201581-006	11.0573	17.3092	16.2234	83	17
201583-001	11.1037	17.5429	15.5853	70	30
201583-002	11.3675	16.6879	15.2363	73	27
201583-003	10.9545	17.2449	15.3531	70	30
201583-004	10.9233	19.9407	14.6565	41	59
201583-005	11.2491	18.1785	15.7170	64	36
201583-006	11.3831	18.4695	15.6995	61	39
201583-007	11.3583	17.1625	15.5947	73	27
201583-008	11.3846	17.0334	15.0310	65	35
201583-009	11.0382	18.9714	17.1791	77	23
201583-010	11.4058	16.8731	15.2867	71	29
201583-011	11.2953	18.0910	15.3020	59	41
201602-001	11.2671	17.0938	14.4857	55	45
201748-001	11.0985	17.6544	16.6855	85	15
201748-002	11.1489	17.5090	16.2196	80	20
QC432465	11.3720	18.2559	15.1558	55	45
of 201602-001			RPD:	0.5%	0.6%

PROJECT Moisture

Notebook No. 2682

Continued From Page 0

3/11/2008

B# 135880

SAMPLE	SL	DISH	DISH WT	SAMPLE WT	FINAL WT	Comments
BLK	—	I09	11.2673	0	11.2652	
201583-001	G	BCH	11.1037	17.5429	15.5853	
-002	G	B18	11.3675	16.6879	15.2363	
-003	G	DEW	10.9545	17.2449	15.3531	
-004	G	10G	10.9233	19.9407	14.6565	
-005	G	K10	11.2491	18.1785	15.7170	
-006	G	CI2	11.3831	18.4695	15.6995	
-007	G	A05	11.3583	17.1625	15.5947	
-008	G	B13	11.3846	17.0339	15.0310	
-009	G	B113	11.0582	18.9714	17.1791	
-010	G	M3	11.4058	16.8731	15.2867	
-011	G	E04	11.2953	18.0910	15.3020	
201581-001	B	CT7	11.3285	17.2250	16.3133	
-005	B	C25	11.3786	18.0838	17.3194	
-006	B	B19	11.0573	17.3092	16.2234	
201748-001	G	2BM	11.0985	17.6544	16.6855	
-002	G	HNZ	11.1489	17.5090	16.2196	
201602-001	D	A01	11.2671	17.0938	14.4857	
SDUP	D	CT24	11.3720	18.2559	15.1558	

Time IN 6:35 pm

" OUT 12 PM

Oven Temp 103 C

Continued on Page

Read and Understood By

AA for PHD 3/11/08

Signed Date Signed

3-12-08

PROJECT METTLER AE 2000 Balance calibration

Notebook No. 0752 8

Continued From Page

DATE	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	INIT	weight set
02-12-08	0-2000	0-5000	1-0000	5.0000	10.0000	20.0000	50.0000	VV	10827
02-13-08	0-2000	0-5000	1-0000	5.0000	10.0000	20.0000	50.0000	VV	10827
02-14-08	0-2000	0-5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
02-15-08	0-2000	0.5000	1-0000	5.0000	10.0000	20-0000	50-0000	VV	10827
2-16-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.000	50.0000	HO	10827
2-19-08	0-2000	0.5000	1-0000	5.0000	10-0000	20-0000	50.0000	VV	10827
2-20-08	0.2000	0.5000	1-0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-21-08	0.2000	0.5000	1.0001	5.0001	10.0001	20.0000	50.0000	VV	10827
2-22-08	0.2000	0-5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-24-08	0.2000	0-5000	1.0000	5.0000	10.0000	20.0000	50.0000	HO	10827
2-25-08	0-2000	0-5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-26-08	0-2000	0-5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-27-08	0.2000	0-5000	1-0000	5.0000	10-0000	20.0000	50.0000	VV	10827
2-28-08	0.2000	0.5000	1.0000	5.0001	10.0001	20.0001	50.0002	V	10827
2.29-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3.1.08	0.2000	5.0001	1.0001	5.0001	10.0001	20.0001	50.0001	HO	10827
3.2.08	0.2000	5.0000	1.0000	5.0000	10.0000	20.0000	50.0000	HO	10827
3.3.08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3.4.08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-5-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-6-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3.7-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3.8.08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	HO	10827
3.9.08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	HO	10827
2-6-08	0.2000	0.5000	1.0001	5.0000	10.0002	20.0001	50.0001	V	10827
3.11.08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	V	10827
3-12-08	0-2000	0-5000	1-0000	5.0000	10.0000	20.0000	50.0000	VV	10827

Continued on Page

Read and Understood By

Signed Date Signed Date

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 8

Date	Initials	Temp (*C)
12-22-07	HO	105°C
12-23-07	HO	105°C
12-26-07	HO	105°C
12-27-07	VV	105°C
12-28-07	VV	103°C
12-29-07	HO	104°C
1-2-08	HO	104°C
1-3-08	VV	104°C
1-4-08	VV	103°C
1-5-08	HO	105°C
1-6-08	HO	105°C
1-9-08	VV	104°C
1-10-08	VV	103°C
1-11-08	VV	104°C
1-12-08	HO	103°C
1-13-08	HO	103°C
1-14-08	VV	103°C
1-15-08	VV	103°C
1-16-08	VV	105°C
1-17-08	VV	105°C
1-18-08	VV	105°C
1-19-08	HO	105°C
1-21-08	VV	105°C
1-22-08	VV	105°C
1-23-08	VV	104°C
1-24-08	VV	105°C
1-25-08	VV	103°C
1-27-08	HO	103°C
1-28-08	VV	104°C
1-29-08	VV	104°C
1-30-08	VV	104°C
1-31-08	VV	104°C
2-1-08	VV	103°C
2-2-08	HO	103°C
2-3-08	HO	103°C
2-4-08	VV	103°C
2-5-08	VV	105°C
2-6-08	VV	104°C
2-7-08	VV	103°C
2-8-08	VV	103°C
2-9-08	HO	103°C
2-10-08	HO	103°C

Date	Initials	Temp (*C)
2-11-08	VV	104°C
2-12-08	VV	104°C
2-13-08	VV	105°C
2-14-08	VV	105°C
2-15-08	VV	104°C
2-16-08	HO	103°C
2-19-08	VV	103°C
2-20-08	VV	104°C
2-21-08	HO	104°C
2-22-08	VV	104°C
2-24-08	HO	103°C
2-25-08	VV	104°C
2-26-08	VV	105°C
2-27-08	VV	105°C
2-28-08	VV	104°C
2-29-08	VV	103°C
~~3-1-08~~	HO	103°C
3-2-08	HO	103°C
3-3-08	VV	103°C
3-4-08	VV	103°C
3-5-08	VV	104°C
3-6-08	VV	105°C
3-7-08	VV	104°C
3-8-08	HO	101°C
3-9-08	HO	103°C
3-11-08	DHD	105°C
3-12-08	VV	103°C

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 135880
Date Started: 12-MAR-2008
Batched by : Victor Vergara

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
201581-001		URS Corporation	Soil	MOISTURE	12-MAR-2008
201581-005		URS Corporation	Soil	MOISTURE	12-MAR-2008
201581-006		URS Corporation	Soil	MOISTURE	12-MAR-2008
201583-001		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-002		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-003		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-004		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-005		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-006		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-007		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-008		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-009		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-010		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201583-011		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201602-001		CH2M Hill Construc	Soil	MOISTURE	12-MAR-2008
201748-001		Mactec, Inc.	Soil	MOISTURE	13-MAR-2008
201748-002		Mactec, Inc.	Soil	MOISTURE	13-MAR-2008
QC432465	SDUP of 201602-001		Soil	MOISTURE	

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 201749
ANALYTICAL REPORT

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065 Presidio
Petaluma, CA 94954	Level : III

Sample ID	Lab ID
1065EX303RB304	201749-001
TB030608	201749-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 03/19/2008
Project Manager

Signature: _____ Date: 03/24/2008
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	201749
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065 Presidio
Request Date:	03/06/08
Samples Received:	03/06/08

This hardcopy data package contains sample and QC results for two water samples, requested for the above referenced project on 03/06/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recoveries were observed for trifluorotoluene (FID) in the MS/MSD for batch 136003; the corresponding bromofluorobenzene (FID) surrogate recoveries were within limits, and the parent sample was not a project sample. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 136003; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
Diesel C12-C24 was detected between the MDL and the RL in the method blank for batch 135755; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High responses were observed for acetone and 2,2-dichloropropane in the ICV analyzed 03/05/08 11:15; these analytes were not detected at or above the RL in the associated samples. Low response was observed for Freon 12 in the ICV analyzed 03/05/08 22:30; this analyte was not detected at or above the RL in the associated samples. Low response was observed for Freon 12 in the ICV analyzed 03/04/08 22:37; this analyte was not detected at or above the RL in the associated samples. Low responses were observed for bromomethane, chloromethane, and Freon 12 in the CCV analyzed 03/13/08 10:37; these analytes met minimum response criteria. High responses were observed for n-butylbenzene and hexachlorobutadiene; these analytes were not detected at or above the RL in the associated samples. Low response was observed for Freon 12 in the CCV analyzed 03/11/08 10:33; this analyte met minimum response criteria. High response was observed for acetone; this analyte was not detected at or above the RL in the associated samples. Sec-butylbenzene was detected between the MDL and the RL in the method blank for batch 135935; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):
Many analytes were detected between the MDL and the RL in the method blank

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**201749**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**03/06/08**
Samples Received:	**03/06/08**

Metals (EPA 6010B and EPA 7470A):
for batch 135773; these analytes were not detected in the sample at or above the RL. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

3832

201749

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: ~~Bldg 1063 Ex 1~~ Presidio Trust
STREET ADDRESS: Bldg 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Bldg 1065 - Ex 1
JOB NO.: 408407515 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE:

	TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) BTEX & Naphthalene	TPHg	TPHd & TPHmo-w-silica gel	PAHs (8270SIM)	Title 22 Metals	FOR LAB USE ONLY
1	845	X		W	1065EX303RB304	EB		12	X	X	X	X	X	
2	NA	X		W	TB030608	TB		2	X	X				

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	3/6/08 1220		3/8/08 1220			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
5 day TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

F1008 (05/00)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 201749 Date Received 3/6/08 Number of coolers 1
Client MacTec Project Presidio Trust

Date Opened 3/6/08 By (print) KWellbrock (sign) KWellbrock
Date Logged in 3-7-08 By (print) FNichols (sign) FNichols

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? ..... YES NO (N/A)
3. Were custody papers dry and intact when received? ..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... (YES) NO N/A
Type of ice used: ☒ WET ☐ BLUE ☐ NONE Temp(°C) 6.0
☒ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... (YES) NO
If YES, what time were they transferred to freezer? 3/6 1400
9. Did all bottles arrive unbroken/unopened? ..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... (YES) NO N/A
15. Are bubbles absent in VOA samples? ..... (YES) NO N/A
16. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

TPH-Purgeables
Data
(Water)

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/06/08
Units:	ug/L	Received:	03/06/08
Diln Fac:	1.000	Analyzed:	03/15/08
Batch#:	136003		

Field ID: 1065EX303RB304 Lab ID: 201749-001
Type: SAMPLE

Analyte	Result	RL	MDL
Gasoline C7-C12	16 J	50	4.9

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	65-135
Bromofluorobenzene (FID)	94	65-135

Field ID: TB030608 Lab ID: 201749-002
Type: SAMPLE

Analyte	Result	RL	MDL
Gasoline C7-C12	13 J	50	4.9

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	65-135
Bromofluorobenzene (FID)	95	65-135

Type: BLANK Lab ID: QC432968

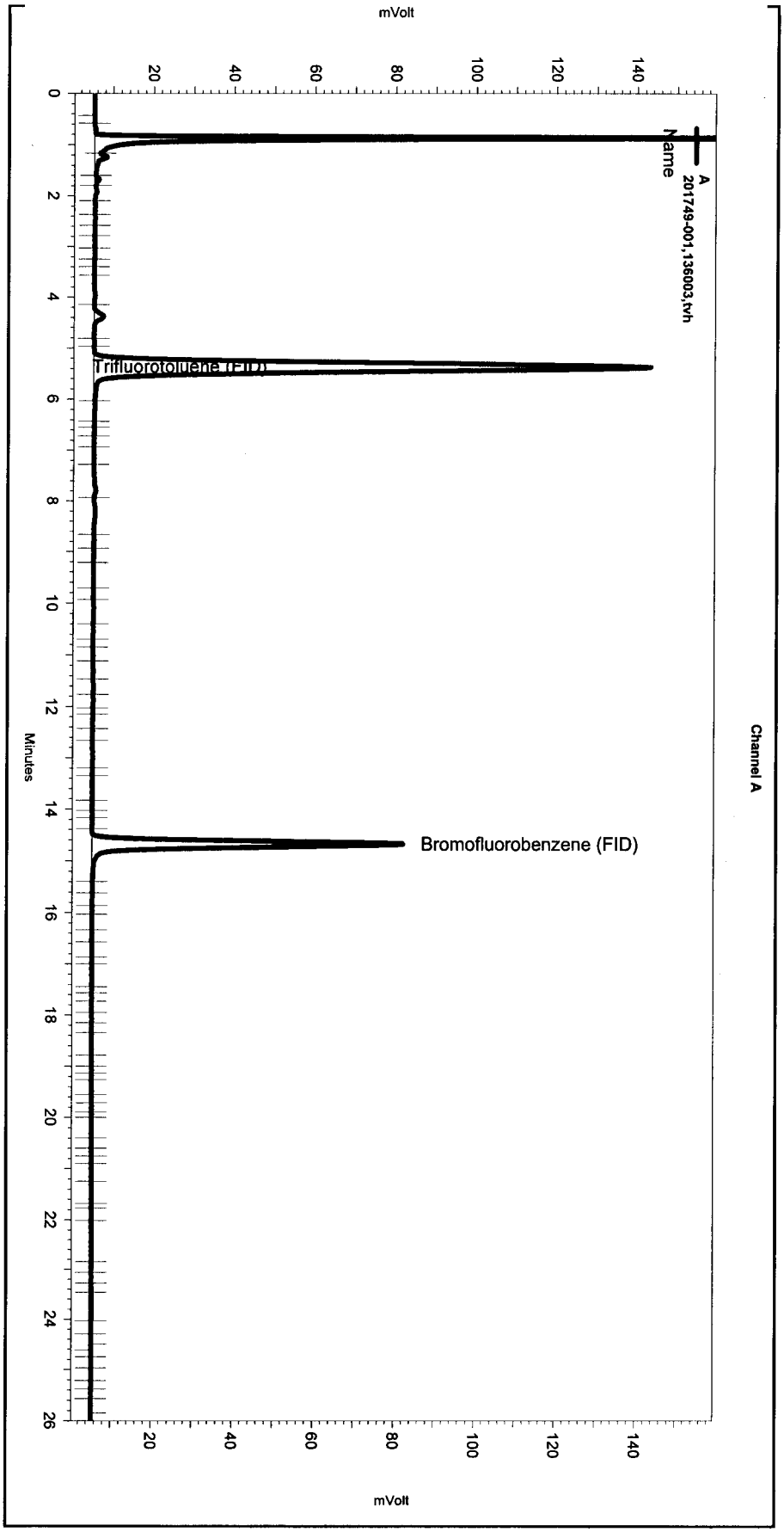
Analyte	Result	RL	MDL
Gasoline C7-C12	14 J	50	4.9

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	83	65-135

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\074.seq**
Sample Name: **201749-001,136003,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\074_039**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe047.met

Software Version 3.1.7
Run Date: 3/15/2008 4:30:00 PM
Analysis Date: 3/16/2008 4:45:04 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: g1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

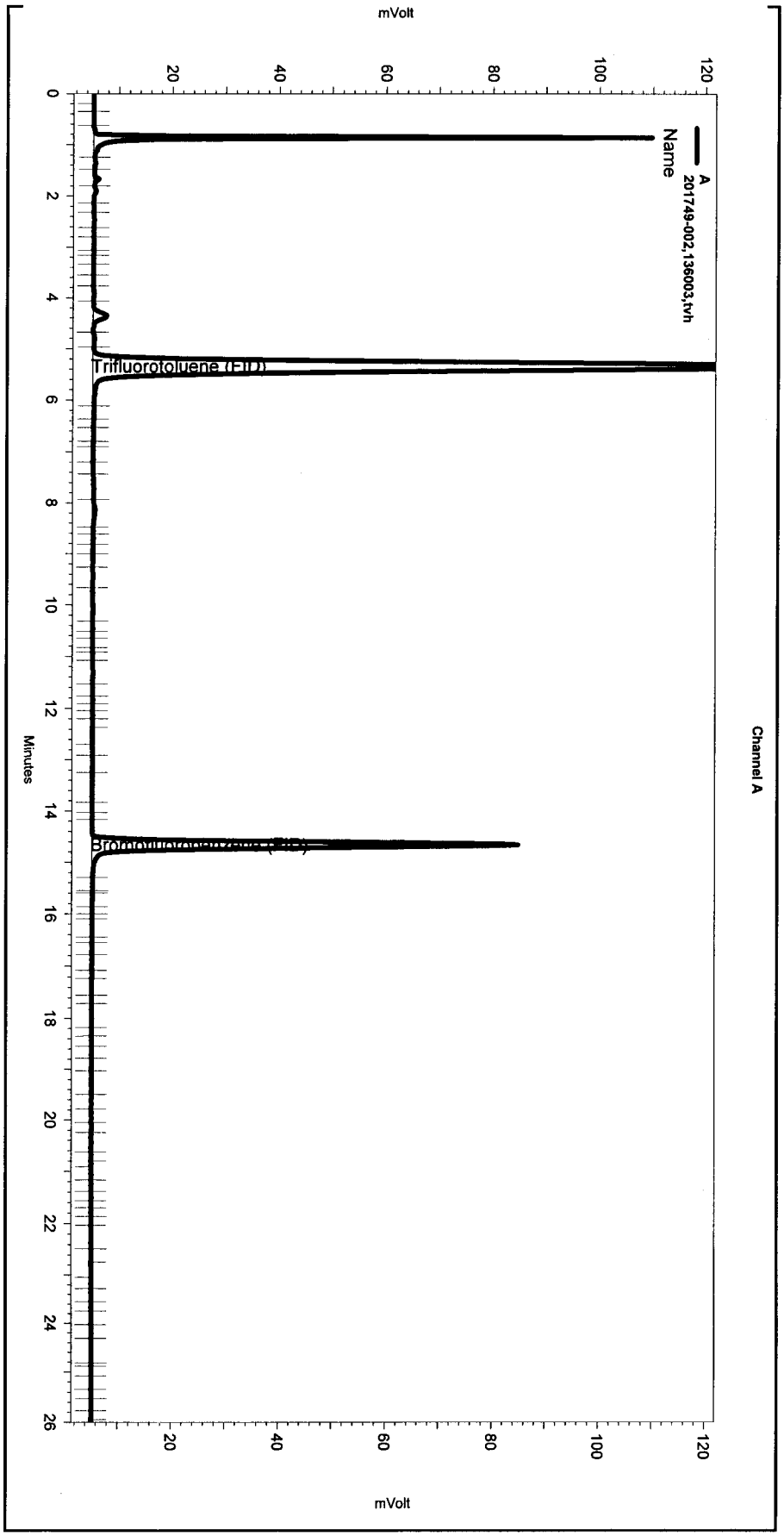
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\074_039

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\074.seq**
Sample Name: **201749-002,136003,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\074_040**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe047.met

Software Version 3.1.7
Run Date: 3/15/2008 5:05:32 PM
Analysis Date: 3/16/2008 4:45:08 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

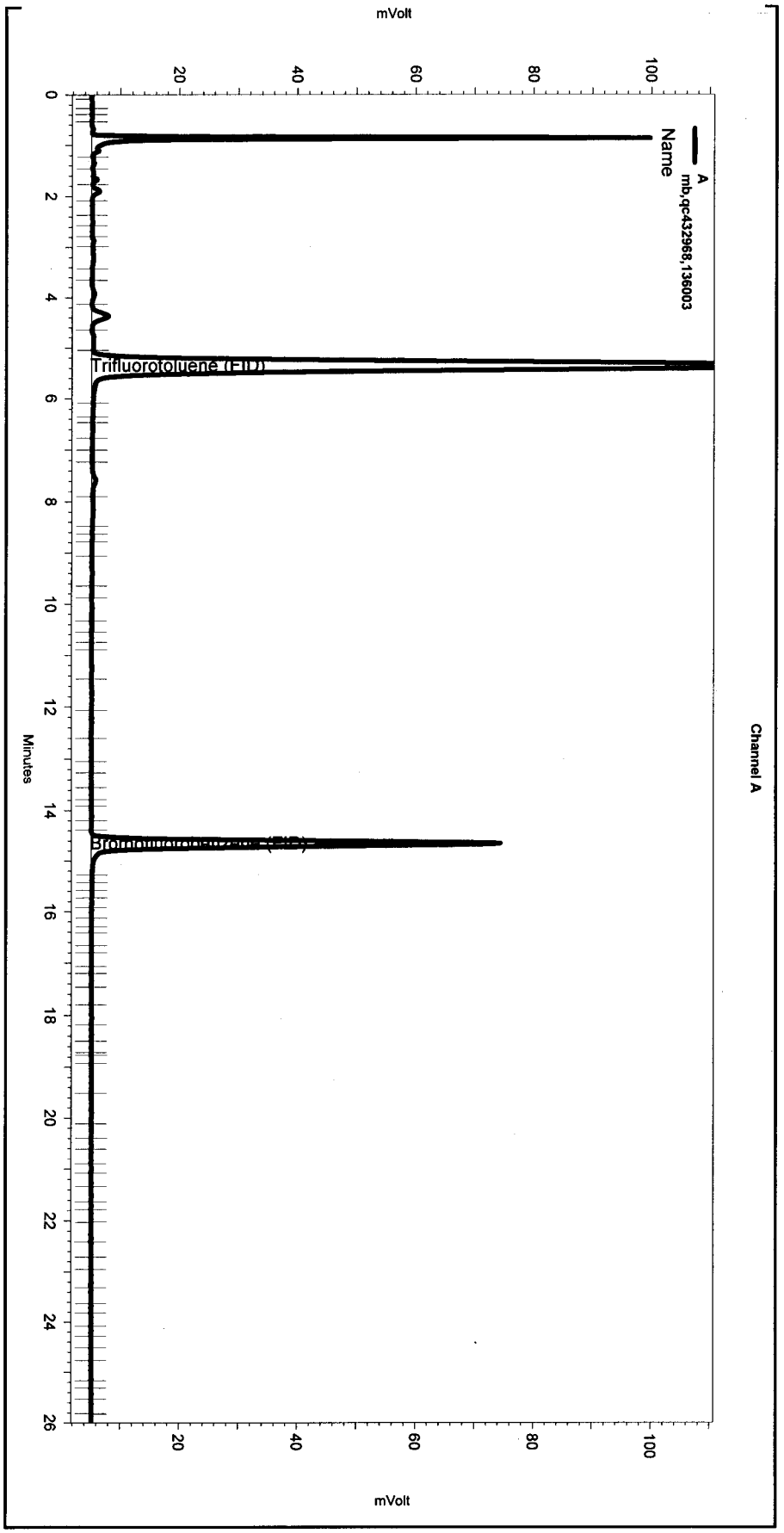
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\074_040

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\074.seq**
Sample Name: **mb,qc432968,136003**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\074_042**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe047.met

Software Version 3.1.7
Run Date: 3/15/2008 6:16:41 PM
Analysis Date: 3/16/2008 4:45:15 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

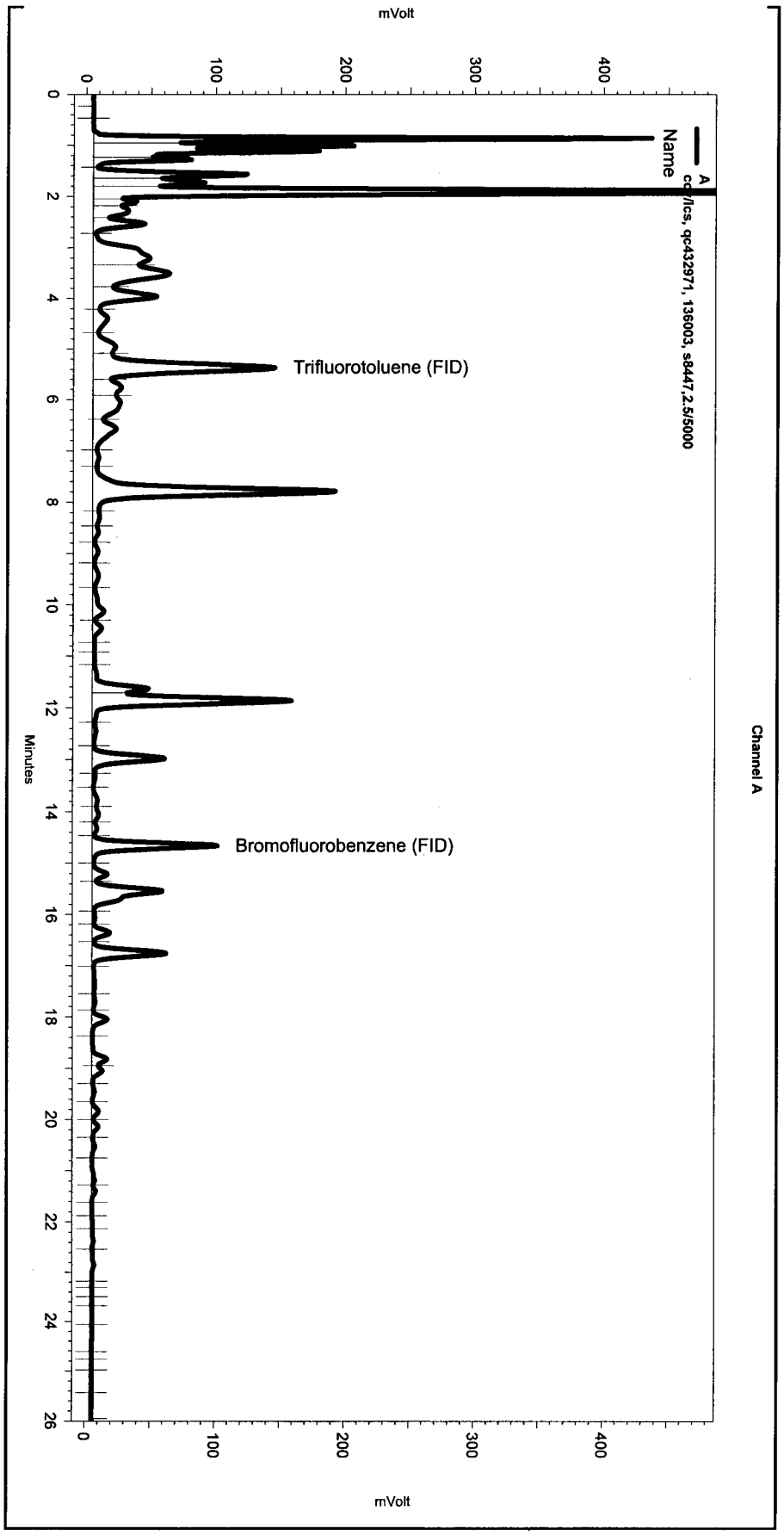
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\074_042

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\074.seq**
Sample Name: **ccv/lcs, qc432971, 136003, s8447,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\074_002**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe047.met

Software Version 3.1.7
Run Date: 3/14/2008 3:15:05 PM
Analysis Date: 3/15/2008 9:45:55 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\074_002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC432971	Batch#:	136003
Matrix:	Water	Analyzed:	03/14/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	867.2	87	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	119	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	136003
MSS Lab ID:	201695-001	Sampled:	03/04/08
Matrix:	Water	Received:	03/05/08
Units:	ug/L	Analyzed:	03/14/08
Diln Fac:	1.000		

Type: MS Lab ID: QC432972

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	20.06	2,000	1,737	86	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137 *	65-135
Bromofluorobenzene (FID)	135	65-135

Type: MSD Lab ID: QC432973

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,832	91	65-135	5	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137 *	65-135
Bromofluorobenzene (FID)	133	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 318055208001
Units : ng

Name : GC05 TVH 038
Date : 07-FEB-2008 16:59
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	038_008	318055208008	TVH 1	07-FEB-2008 16:59	S7784 (1000X), S8275 (5000X)
L2	038_009	318055208009	TVH 2	07-FEB-2008 17:35	S7783 (1000X), S8275 (5000X)
L3	038_010	318055208010	TVH 3	07-FEB-2008 18:10	S7782 (1000X), S8275 (5000X)
L4	038_011	318055208011	TVH 4	07-FEB-2008 18:46	S7781 (2000X), S8275 (5000X)
L5	038_012	318055208012	TVH 5	07-FEB-2008 19:22	S7781 (1000X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2653.3	2184.1	2331.7	2369.7	2301.4	AVRG		4.22E-4		2368.0	7	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	12	2500	-8	10000	-2	25000	0	50000	-3

Analyst: PDM Date: 02/08/08 Reviewer: LH Date: 02/08/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201749 GCVOA Water
EPA 8015B

Inst : GC05 Name : GC05 TVH 038
Calnum : 318055208001 Cal Date : 07-FEB-2008

ICV 318055208015 (038_015 07-FEB-2008) stds: S8283 (1000X), S8275 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	2368.0	2298.0	10000	9704	ng	-3	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 318068312001
Units : ng

Name : TVHBTXE049
Date : 16-FEB-2008 10:32
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	047_003	318068312003	BTXE_1	16-FEB-2008 10:32	S7770 (1000X), S8275 (5000X)
L2	047_004	318068312004	MBTXE_2	16-FEB-2008 11:08	S7769 (1250X), S8275 (5000X)
L3	047_005	318068312005	MBTXE_3	16-FEB-2008 11:44	S7769 (500X), S8275 (5000X)
L4	047_006	318068312006	MBTXE_4	16-FEB-2008 12:19	S7769 (125X), S8275 (5000X)
L5	047_007	318068312007	MBTXE_5	16-FEB-2008 12:55	S7768 (1000X), S8275 (5000X)
L6	047_008	318068312008	MBTXE_6	16-FEB-2008 13:30	S7768 (500X), S8275 (5000X)
L7	047_009	318068312009	MBTXE_7	16-FEB-2008 14:06	S7768 (250X), S8275 (5000X)
L8	047_010	318068312010	MTBE_7	16-FEB-2008 14:41	S7767 (500X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2864.1	2889.4	2930.9	2812.3	2912.6	2941.5	2760.5	2917.6	AVRG		3.47E-4		2878.6	2	0.995	20	
Bromofluorobenzene (FID)	A	1234.2	1255.3	1342.8	1365.3	1482.5	1509.4	1535.1	1343.0	AVRG		7.23E-4		1383.4	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	-1	450.0	0	450.0	2	450.0	-2	450.0	1	450.0	2	450.0	-4	450.0	1
Bromofluorobenzene (FID)	A	450.0	-11	450.0	-9	450.0	-3	450.0	-1	450.0	7	450.0	9	450.0	11	450.0	-3

MRC 02/19/08 : MTBE will only be reported (if at all) from CH C

Analyst: MRC Date: 02/19/08 Reviewer: EAH Date: 02/19/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS SPIKE USER REPORT FOR 201749 GCVOA Water
EPA 8015B

Inst : GC05 Run Name : QC432971 IDF : 1.0
Seqnum : 318107475002.7 File : 074_002 Time : 14-MAR-2008 15:15
Standards: S8447 (2000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	318055208001	07-FEB-2008	2368.0	2053.6	5000	4336	ng	-13	15	u
Trifluorotoluene (FID)	A	318068312001	16-FEB-2008	2878.6	3624.9	504.0	634.7	ng	**26**	15	c+ u
Bromofluorobenzene (FID)	A	318068312001	16-FEB-2008	1383.4	1646.3	504.0	599.8	ng	**19**	15	c+ u

MRC 03/17/08 : Surrogates within control limits. [general version]

Analyst: PDM Date: 03/18/08 Reviewer: LH Date: 03/18/08

+=high bias c=CCV u=use

318107475002.7

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCVOA Water
EPA 8015B

Inst : GC05 Run Name : BTXE IDF : 1.0
Seqnum : 318107475012 File : 074_012 Time : 14-MAR-2008 23:39
Cal : 318068312001 Caldate : 16-FEB-2008
Standards: S8449 (1000X), S8641 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	2878.6	2974.2	504.0	520.7	ng	3	15	
Bromofluorobenzene (FID)	A	1383.4	1235.2	504.0	450.0	ng	-11	15	

MRC 03/17/08 : MTBE may only be reported from C

LH 03/18/08 : BFB (B&C) passes control limits

Analyst: MRC Date: 03/17/08 Reviewer: LH Date: 03/18/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCVOA Water
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
Seqnum : 318107475015 File : 074_015 Time : 15-MAR-2008 01:25
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	318055208001	07-FEB-2008	2368.0	2009.0	10000	8484	ng	-15	15	
Trifluorotoluene (FID)	A	318068312001	16-FEB-2008	2878.6	3873.3	504.0	678.1	ng	**35**	15	c+
Bromofluorobenzene (FID)	A	318068312001	16-FEB-2008	1383.4	1708.1	504.0	622.3	ng	**23**	15	c+

MRC 03/17/08 : Surrogates within control limits.

Analyst: MRC Date: 03/17/08 Reviewer: LH Date: 03/18/08

+=high bias c=CCV

318107475015

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCVOA Water
EPA 8015B

Inst : GC05 Run Name : BTXE IDF : 1.0
Seqnum : 318107475030 File : 074_030 Time : 15-MAR-2008 10:29
Cal : 318068312001 Caldate : 16-FEB-2008
Standards: S8140 (666.7X), S8641 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	2878.6	3068.0	504.0	537.2	ng	7	15	
Bromofluorobenzene (FID)	A	1383.4	1224.7	504.0	446.2	ng	-11	15	

MRC 03/17/08 : MTBE may only be reported from C

MRC 03/17/08 : Surrogates within control limits.

MRC 03/17/08 : MTBE data will not match EZChrom raw data because there is a LIMS-only MTBE single point. MTBE will be reported from Ch "C"

Analyst: MRC Date: 03/17/08 Reviewer: LH Date: 03/18/08

318107475030

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCVOA Water
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
Seqnum : 318107475031 File : 074_031 Time : 15-MAR-2008 11:11
Standards: S8283 (666.7X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	318055208001	07-FEB-2008	2368.0	2161.4	15000	13690	ng	-9	15	
Trifluorotoluene (FID)	A	318068312001	16-FEB-2008	2878.6	4232.1	504.0	741.0	ng	**47**	15	c+
Bromofluorobenzene (FID)	A	318068312001	16-FEB-2008	1383.4	1796.6	504.0	654.5	ng	**30**	15	c+

MRC 03/17/08 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

MRC 03/17/08 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: MRC Date: 03/17/08 Reviewer: LH Date: 03/18/08

+=high bias c=CCV

318107475031

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCVOA Water
EPA 8015B

Inst : GC05 Run Name : BTXE IDF : 1.0
Seqnum : 318107475043 File : 074_043 Time : 15-MAR-2008 18:52
Cal : 318068312001 Caldate : 16-FEB-2008
Standards: S8449 (1000X), S8641 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	2878.6	3051.4	504.0	534.2	ng	6	15	
Bromofluorobenzene (FID)	A	1383.4	1299.7	504.0	473.5	ng	-6	15	

MRC 03/17/08 : MTBE data will not match EZChrom raw data because there is a LIMS-only MTBE single point. MTBE will be reported from Ch "C"

Analyst: MRC Date: 03/17/08 Reviewer: LH Date: 03/18/08

318107475043

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCVOA Water
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
Seqnum : 318107475044 File : 074_044 Time : 15-MAR-2008 19:27
Standards: S8283 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	318055208001	07-FEB-2008	2368.0	2223.1	10000	9388	ng	-6	15	
Trifluorotoluene (FID)	A	318068312001	16-FEB-2008	2878.6	3928.9	504.0	687.9	ng	**36**	15	c+
Bromofluorobenzene (FID)	A	318068312001	16-FEB-2008	1383.4	1732.6	504.0	631.2	ng	**25**	15	c+

MRC 03/17/08 : Surrogates within control limits.

Analyst: MRC Date: 03/17/08 Reviewer: LH Date: 03/18/08

+=high bias c=CCV

318107475044

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318055208

Instrument : GC05
Method : EPA 8015B, EPA 8021B
Begun : 02/07/08 08:08
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	038_001	X	IB			02/07/08 08:08	1.0	1
002	038_002	X	CMARK			02/07/08 08:44	1.0	2 1
003	038_003	X	CCV			02/07/08 09:19	1.0	3 1
004	038_004	X	CCV			02/07/08 09:55	1.0	3 1
005	038_005	X	CCV			02/07/08 10:30	1.0	4 1
006	038_006	X	IB			02/07/08 15:48	1.0	1
007	038_007	X	IB			02/07/08 16:24	1.0	1
008	038_008	ICAL	TVH 1			02/07/08 16:59	1.0	5 1
009	038_009	ICAL	TVH 2			02/07/08 17:35	1.0	6 1
010	038_010	ICAL	TVH 3			02/07/08 18:10	1.0	7 1
011	038_011	ICAL	TVH 4			02/07/08 18:46	1.0	8 1
012	038_012	ICAL	TVH 5			02/07/08 19:22	1.0	8 1
013	038_013	X	IB			02/07/08 19:57	1.0	1
014	038_014	X	ICV			02/07/08 20:33	1.0	4 1
015	038_015	ICV	TVH			02/07/08 21:08	1.0	4 1
016	038_016	X	IB			02/07/08 21:44	1.0	1
017	038_017	CMARKER				02/07/08 22:19	1.0	9 1

Analyst: PDM Date: 02/08/08 Reviewer: LH Date: 02/08/08

Standards used: 1=S8275 2=S8201 3=S8140 4=S8283 5=S7784 6=S7783 7=S7782 8=S7781 9=S7569

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318068312

Instrument : GC05
Method : EPA 8015B, EPA 8021B

Begun : 02/16/08 09:21
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	047_001	X	IB			02/16/08 09:21	1.0	1	
002	047_002	IB	BEFORE ICAL			02/16/08 09:57	1.0	1	
003	047_003	ICAL	BTXE_1			02/16/08 10:32	1.0	2 1	
004	047_004	ICAL	MBTXE_2			02/16/08 11:08	1.0	3 1	
005	047_005	ICAL	MBTXE_3			02/16/08 11:44	1.0	3 1	
006	047_006	ICAL	MBTXE_4			02/16/08 12:19	1.0	3 1	
007	047_007	ICAL	MBTXE_5			02/16/08 12:55	1.0	4 1	
008	047_008	ICAL	MBTXE_6			02/16/08 13:30	1.0	4 1	
009	047_009	ICAL	MBTXE_7			02/16/08 14:06	1.0	4 1	
010	047_010	ICAL	MTBE_7			02/16/08 14:41	1.0	5 1	
011	047_011	IB	AFTER ICAL HIGH POIN			02/16/08 15:17	1.0	1	
012	047_012	X	MBTXE			02/16/08 15:53	1.0	6 1	
013	047_013	ICV	MBTXE			02/16/08 16:28	1.0	6 1	

Analyst: MRC Date: 02/19/08 Reviewer: EAH Date: 02/19/08

Standards used: 1=S8275 2=S7770 3=S7769 4=S7768 5=S7767 6=S7868

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318107475

Instrument : GC05
Method : EPA 8015B, EPA 8021B
Begun : 03/14/08 14:39
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	074_001	X	CMARK			03/14/08 14:39	1.0	1 2
002	074_002	CCV/LCS	QC432971	Water	136003	03/14/08 15:15	1.0	3 2
003	074_003	CCV/BS	QC432969	Water	136003	03/14/08 15:50	1.0	4 2
004	074_004	BSD	QC432970	Water	136003	03/14/08 16:26	1.0	4 2
005	074_005	X	CCV			03/14/08 19:30	1.0	3 2
006	074_006	X	IB			03/14/08 20:05	1.0	2
007	074_007	BLANK	QC432968	Water	136003	03/14/08 20:41	1.0	2
008	074_008	MSS	201695-001	Water	136003	03/14/08 21:16	1.0	2
009	074_009	MS	QC432972	Water	136003	03/14/08 21:52	1.0	3 2
010	074_010	MSD	QC432973	Water	136003	03/14/08 22:28	1.0	3 2
011	074_011	SAMPLE	201695-002	Water	136003	03/14/08 23:03	1.0	2
012	074_012	CCV	BTXE			03/14/08 23:39	1.0	4 2
013	074_013	X	TVH			03/15/08 00:14	1.0	3 2
014	074_014	X	CCV			03/15/08 00:50	1.0	4 2
015	074_015	CCV	TVH			03/15/08 01:25	1.0	3 2
016	074_016	SAMPLE	201695-003	Water	136003	03/15/08 02:01	1.0	2
017	074_017	SAMPLE	201715-002	Water	136003	03/15/08 02:36	1.0	2
018	074_018	SAMPLE	201715-003	Water	136003	03/15/08 03:12	1.0	2
019	074_019	SAMPLE	201715-004	Water	136003	03/15/08 03:48	1.0	2
020	074_020	SAMPLE	201715-005	Water	136003	03/15/08 04:23	1.0	2
021	074_021	SAMPLE	201715-006	Water	136003	03/15/08 04:59	1.0	2
022	074_022	X	IB			03/15/08 05:34	1.0	2
023	074_023	SAMPLE	201705-001	Water	136003	03/15/08 06:10	1.0	2
024	074_024	SAMPLE	201706-001	Water	136003	03/15/08 06:45	1.0	2
025	074_025	X	CMARK			03/15/08 07:21	1.0	1 2
026	074_026	X	CCV			03/15/08 07:56	1.0	4 2
027	074_027	X	CCV			03/15/08 08:32	1.0	3 2
028	074_028	X	CCV			03/15/08 09:07	1.0	4 2
029	074_029	X	CCV			03/15/08 09:43	1.0	3 2
030	074_030	CCV	BTXE			03/15/08 10:29	1.0	5 2
031	074_031	CCV	TVH			03/15/08 11:11	1.0	6 2
032	074_032	X	IB	Water	136003	03/15/08 11:47	1.0	2
033	074_033	SAMPLE	201825-001	Water	136003	03/15/08 12:40	1.0	2
034	074_034	SAMPLE	201826-001	Water	136003	03/15/08 13:15	1.0	2
035	074_035	SAMPLE	201826-002	Water	136003	03/15/08 13:51	1.0	2
036	074_036	SAMPLE	201813-001	Water	136003	03/15/08 14:27	1.0	2
037	074_037	SAMPLE	201813-002	Water	136003	03/15/08 15:18	1.0	2
038	074_038	SAMPLE	201813-006	Water	136003	03/15/08 15:54	1.0	2
039	074_039	SAMPLE	201749-001	Water	136003	03/15/08 16:30	1.0	2
040	074_040	SAMPLE	201749-002	Water	136003	03/15/08 17:05	1.0	2
041	074_041	X	IB			03/15/08 17:41	1.0	2
042	074_042	BLANK	QC432968	Water	136003	03/15/08 18:16	1.0	2
043	074_043	CCV	BTXE			03/15/08 18:52	1.0	4 2
044	074_044	CCV	TVH			03/15/08 19:27	1.0	6 2
045	074_045	X	BTXE			03/15/08 20:03	1.0	4 2
046	074_046	X				03/15/08 20:38	1.0	6 2
047	074_047	X	CMARK			03/15/08 21:14	1.0	1 2
048	074_048	LCS	QC433035	Water	136016	03/15/08 21:50	1.0	6 2
049	074_049	X	IB			03/15/08 22:25	1.0	2
050	074_050	BLANK	QC433034	Water	136016	03/15/08 23:01	1.0	2
051	074_051	SAMPLE	201804-001	Water	136016	03/15/08 23:36	1.0	2
052	074_052	SAMPLE	201804-002	Water	136016	03/16/08 00:12	1.0	2

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318107475

Instrument : GC05
Method : EPA 8015B, EPA 8021B

Begun : 03/14/08 14:39
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	074_053	SAMPLE	201804-003	Water	136016	03/16/08 00:47	1.0	2	
054	074_054	SAMPLE	201855-001	Water	136016	03/16/08 01:23	1.0	2	
055	074_055	SAMPLE	201855-002	Water	136016	03/16/08 01:58	1.0	2	
056	074_056	SAMPLE	201855-003	Water	136016	03/16/08 02:34	1.0	2	
057	074_057	SAMPLE	201855-005	Water	136016	03/16/08 03:09	1.0	2	
058	074_058	SAMPLE	201855-006	Water	136016	03/16/08 03:45	1.0	2	
059	074_059	CCV	TVH			03/16/08 04:20	1.0	6 2	
060	074_060	X	TVH			03/16/08 04:56	1.0	6 2	
061	074_061	X	CMARK			03/16/08 05:31	1.0	1 2	
062	074_062	MSS	201855-008	Water	136016	03/16/08 06:07	1.0	2	
063	074_063	MS	QC433036	Water	136016	03/16/08 06:43	1.0	3 2	
064	074_064	MSD	QC433037	Water	136016	03/16/08 07:18	1.0	3 2	
065	074_065	CCV	TVH			03/16/08 07:53	1.0	6 2	
066	074_066	X				03/16/08 08:29	1.0	6 2	
067	074_067	X	CMARK			03/16/08 09:05	1.0	1 2	
068	074_068	X	IB			03/16/08 17:41	1.0	2	
069	074_069	CCV/LCS	QC433087	Water	136016	03/16/08 18:17	1.0	4 2	
070	074_070	CCV	TVH			03/16/08 18:52	1.0	6 2	
071	074_071	X	BTXE			03/16/08 19:28	1.0	4 2	
072	074_072	CCV	TVH			03/16/08 20:04	1.0	6 2	
073	074_073	BLANK	QC433034	Water	136016	03/16/08 20:39	1.0	2	
074	074_074	BLANK	QC433034	Water	136016	03/16/08 21:15	1.0	2	
075	074_075	SAMPLE	201669-004	Water	136016	03/16/08 21:50	1.0	2	5:GAS:7-12=59000
076	074_076	SAMPLE	201669-016	Water	136016	03/16/08 22:26	1.0	2	4:GAS:7-12=62000
077	074_077	SAMPLE	201669-025	Water	136016	03/16/08 23:01	1.0	2	1:BZ=3400
078	074_078	SAMPLE	201669-032	Water	136016	03/16/08 23:37	1.0	2	
079	074_079	SAMPLE	201669-036	Water	136016	03/17/08 00:13	1.0	2	
080	074_080	SAMPLE	201669-037	Water	136016	03/17/08 00:48	1.0	2	
081	074_081	X	CMARK			03/17/08 01:24	1.0	1 2	
082	074_082	CCV	BTXE			03/17/08 01:59	1.0	5 2	
083	074_083	X	TVH			03/17/08 02:35	1.0	6 2	
084	074_084	X	BTXE			03/17/08 03:10	1.0	5 2	
085	074_085	X	TVH			03/17/08 03:46	1.0	6 2	
086	074_086	SAMPLE	201669-004	Water	136016	03/17/08 10:28	5.0	2	
087	074_087	SAMPLE	201669-016	Water	136016	03/17/08 11:04	5.0	2	
088	074_088	SAMPLE	201669-025	Water	136016	03/17/08 11:40	5.0	2	
089	074_089	SAMPLE	201669-036	Water	136016	03/17/08 12:15	1.0	2	
090	074_090	SAMPLE	201669-037	Water	136016	03/17/08 12:51	1.0	2	
091	074_091	BLANK	QC433034	Water	136016	03/17/08 13:26	1.0	2	
092	074_092	CCV	BTXE			03/17/08 14:02	1.0	5 2	
093	074_093	CCV	TVH			03/17/08 14:37	1.0	6 2	
094	074_094	X	CCV			03/17/08 15:13	1.0	5 2	
095	074_095	X	CCV			03/17/08 15:48	1.0	6 2	
096	074_096	X	IB			03/17/08 17:51	1.0	2	
097	074_097	BLANK	QC433034	Water	136016	03/17/08 18:27	1.0	2	
098	074_098	CCV	BTXE			03/17/08 19:02	1.0	4 2	
099	074_099	X	TVH			03/17/08 19:38	1.0	3 2	
100	074_100	CCV/LCS	QC433232	Water	136062	03/17/08 20:13	1.0	4 2	
101	074_101	CCV/LCS	QC433233	Water	136062	03/17/08 20:49	1.0	3 2	
102	074_102	X	IB			03/17/08 21:24	1.0	2	
103	074_103	BLANK	QC433231	Water	136062	03/17/08 22:00	1.0	2	
104	074_104	MSS	201934-002	Water	136062	03/17/08 22:36	1.0	2	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318107475

Instrument : GC05
Method : EPA 8015B, EPA 8021B

Begun : 03/14/08 14:39
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	074_105	MS	QC433234	Water	136062	03/17/08 23:11	1.0	2	
106	074_106	MSD	QC433235	Water	136062	03/17/08 23:47	1.0	2	
107	074_107	SAMPLE	201826-001	Water	136062	03/18/08 00:22	1.0	2	
108	074_108	SAMPLE	201826-002	Water	136062	03/18/08 00:58	1.0	2	
109	074_109	SAMPLE	201772-001	Water	136062	03/18/08 01:33	1.0	2	
110	074_110	CCV	BTXE			03/18/08 02:09	1.0	4 2	
111	074_111	CCV	TVH			03/18/08 02:45	1.0	3 2	
112	074_112	X	CCV			03/18/08 03:20	1.0	4 2	
113	074_113	X	CCV			03/18/08 03:56	1.0	3 2	
114	074_114	SAMPLE	201772-002	Water	136062	03/18/08 04:31	1.0	2	
115	074_115	SAMPLE	201766-001	Water	136062	03/18/08 05:07	1.0	2	
116	074_116	SAMPLE	201766-002	Water	136062	03/18/08 05:42	1.0	2	
117	074_117	SAMPLE	201766-003	Water	136062	03/18/08 06:18	1.0	2	
118	074_118	SAMPLE	201766-004	Water	136062	03/18/08 06:53	1.0	2	
119	074_119	SAMPLE	201766-005	Water	136062	03/18/08 07:29	1.0	2	
120	074_120	SAMPLE	201766-006	Water	136062	03/18/08 08:04	1.0	2	
121	074_121	SAMPLE	201766-007	Water	136062	03/18/08 08:40	1.0	2	
122	074_122	SAMPLE	201766-008	Water	136062	03/18/08 09:15	1.0	2	
123	074_123	SAMPLE	201766-009	Water	136062	03/18/08 09:51	1.0	2	6:GAS:7-12=96000
124	074_124	X	CMARK			03/18/08 10:27	1.0	1 2	
125	074_125	CCV	BTXE			03/18/08 11:02	1.0	4 2	
126	074_126	CCV	TVH			03/18/08 11:38	1.0	3 2	

Analyst: MRC Date: 03/17/08 Reviewer: LH Date: 03/17/08

Standards used: 1=S8201 2=S8641 3=S8447 4=S8449 5=S8140 6=S8283

Curtis & Tompkins, Ltd.

TPH-Extractables Data (Water)

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX303RB304	Sampled:	03/06/08
Matrix:	Water	Received:	03/06/08
Units:	ug/L	Prepared:	03/09/08
Diln Fac:	1.000	Analyzed:	03/11/08
Batch#:	135755		

Type: SAMPLE
Lab ID: 201749-001

Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	35 J	50	15
Fuel Oil C24-C36	ND	300	56

Surrogate	%REC	Limits
Hexacosane	115	65-135

Type: BLANK
Lab ID: QC431974

Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	12 J	50	12
Fuel Oil C24-C36	ND	300	56

Surrogate	%REC	Limits
Hexacosane	117	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	135755
Units:	ug/L	Prepared:	03/09/08
Diln Fac:	1.000	Analyzed:	03/11/08

Type: BS
Lab ID: QC431975
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,321	93	65-135

Surrogate	%REC	Limits
Hexacosane	106	65-135

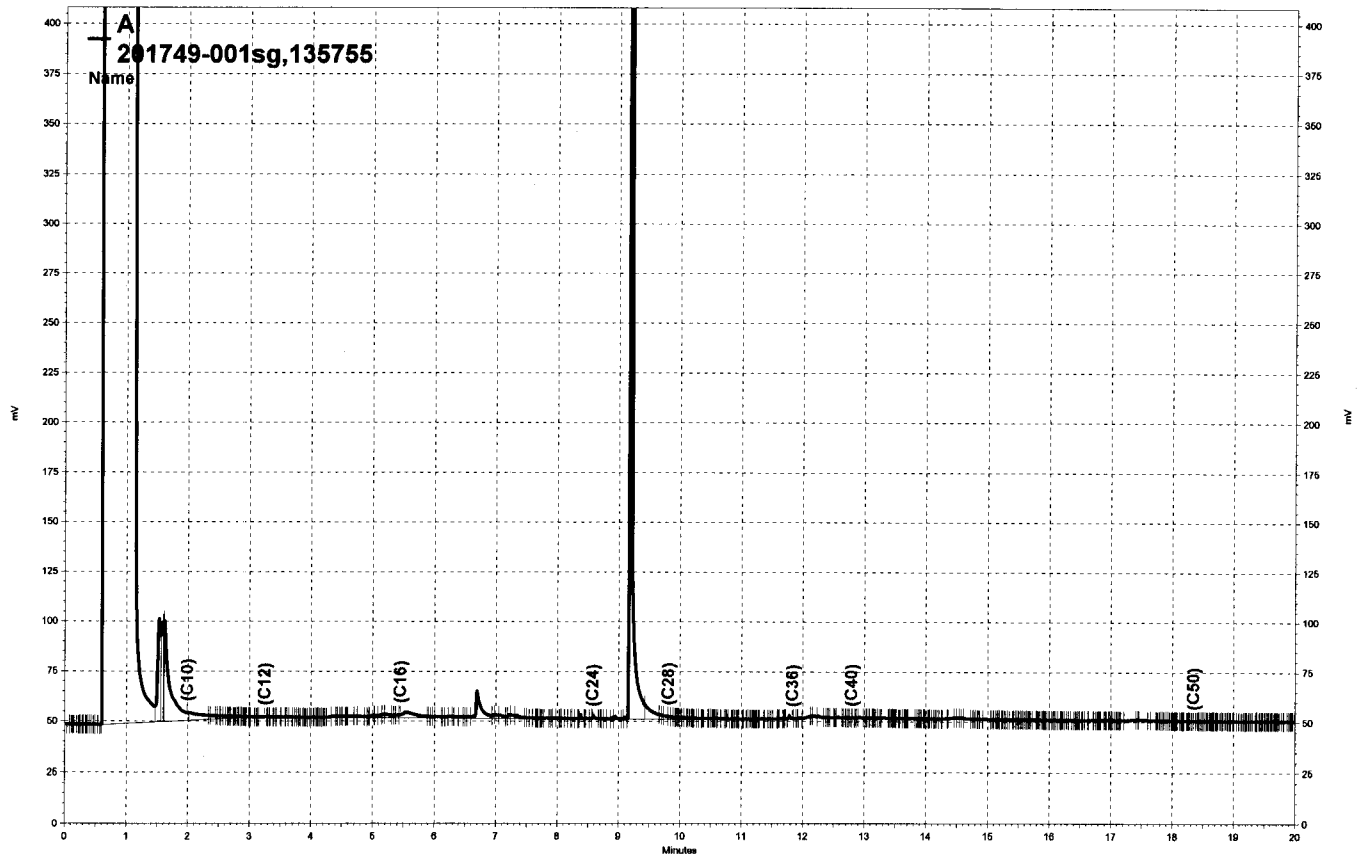
Type: BSD
Lab ID: QC431976
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,526	101	65-135	8	35

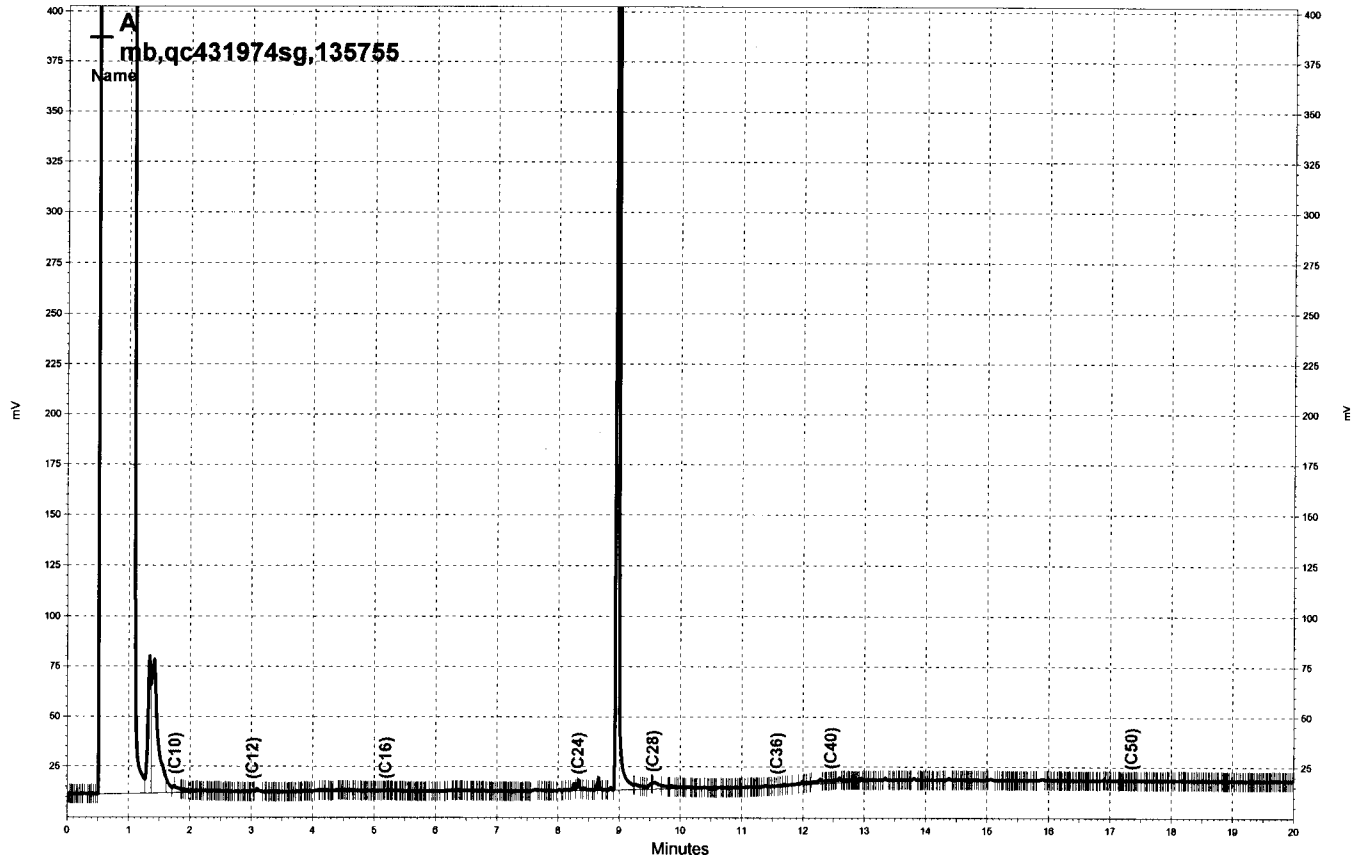
Surrogate	%REC	Limits
Hexacosane	112	65-135

RPD= Relative Percent Difference

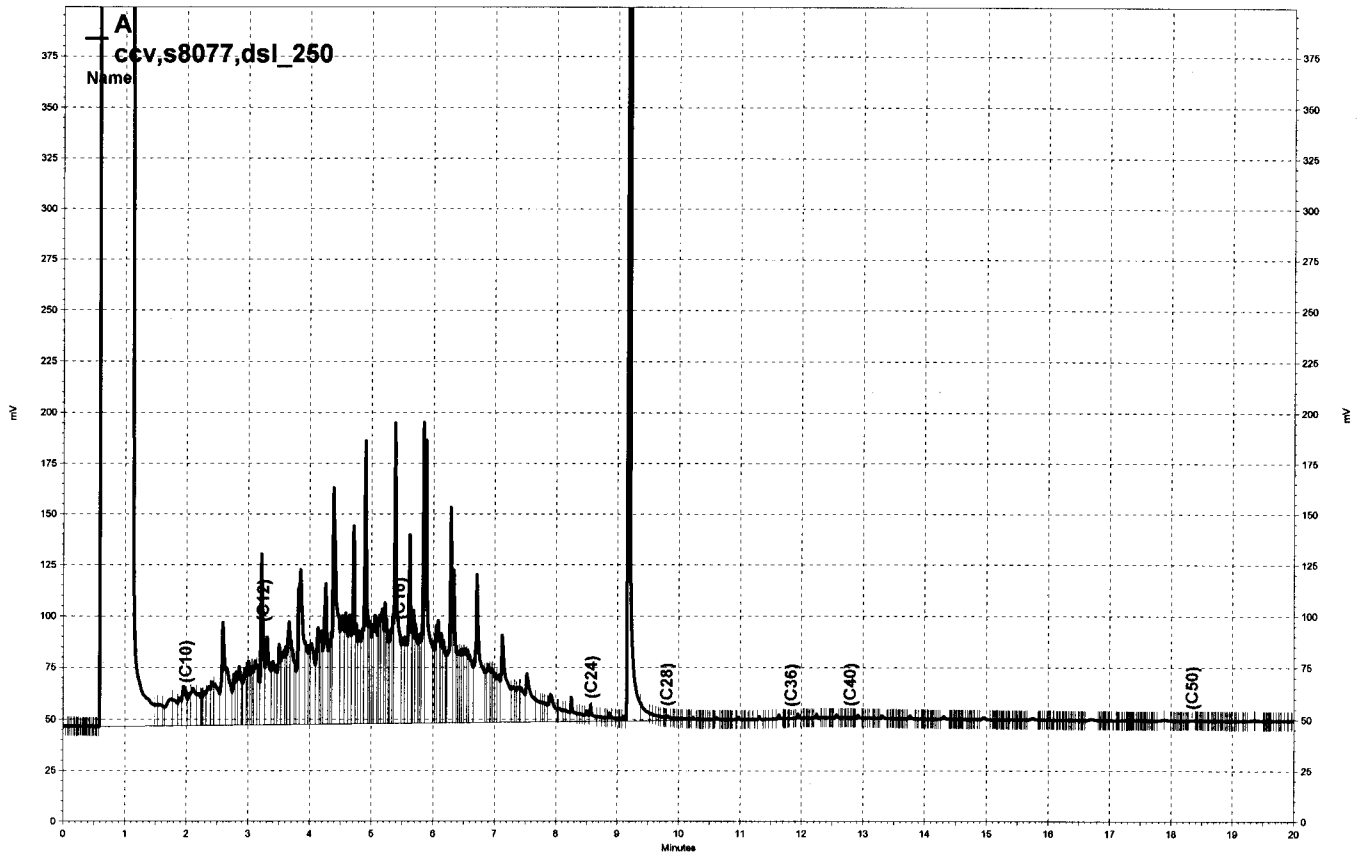
12.0



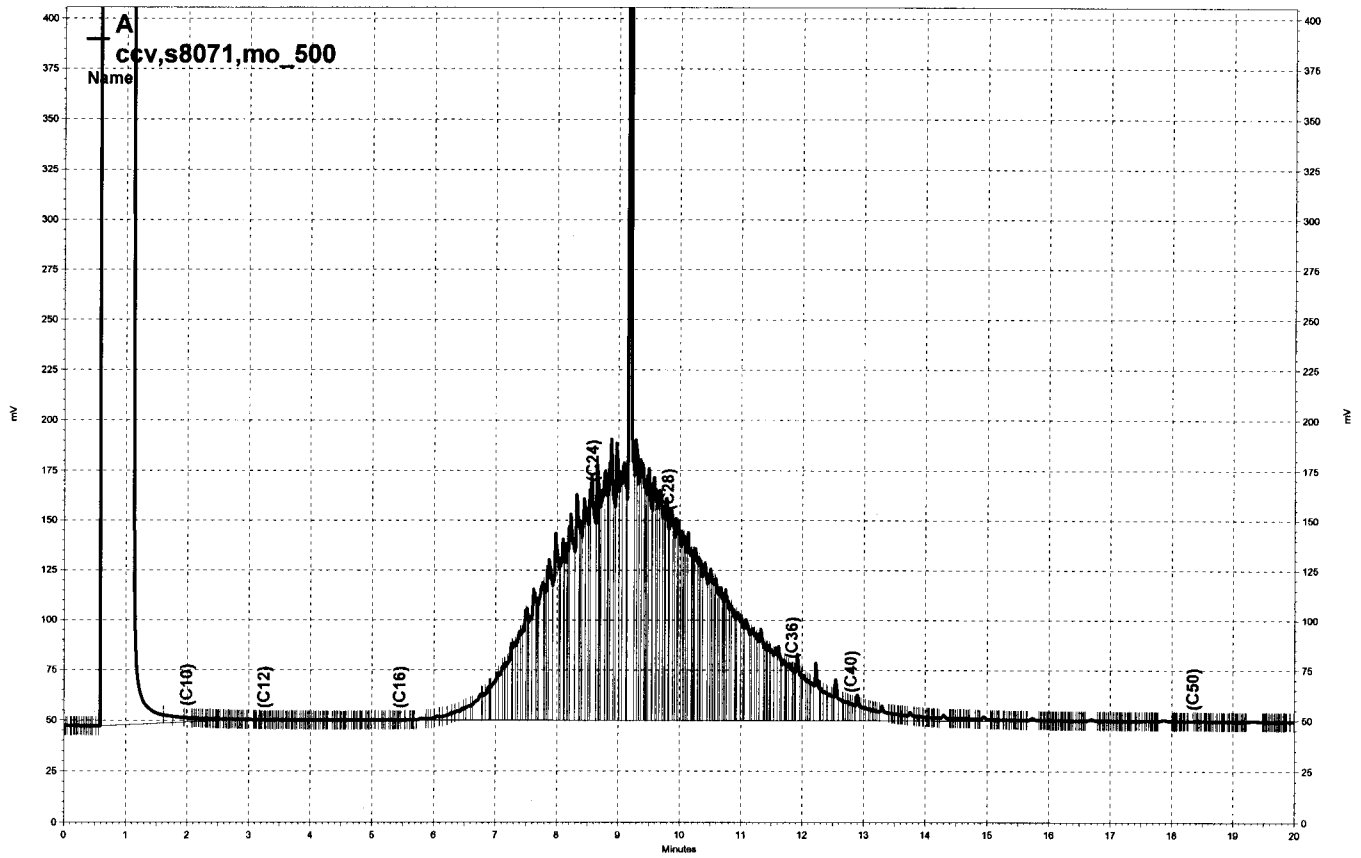
\\Lims\gdrive\ezchrom\Projects\GC11A\Data\071a010, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\071a022, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\071a004, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\071a005, A

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117485208002
Units : mg/L

Name : mo
Date : 03-DEC-2007 10:59
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	336a019	117485208019	MO_50	03-DEC-2007 10:59	S6848
L2	336a020	117485208020	MO_250	03-DEC-2007 11:27	S6849
L3	336a021	117485208021	MO_500	03-DEC-2007 11:55	S6850
L4	336a022	117485208022	MO_1000	03-DEC-2007 12:22	S6851
L5	336a023	117485208023	MO_5000	03-DEC-2007 12:50	S6846
L6	336a024	117485208024	MO_7500	03-DEC-2007 13:18	S6847

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	30633	32953	34564	33746	33000	33191	AVRG		3.03E-5		33014	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-7	250.0	0	500.0	5	1000	2	5000	0	7500	1

Analyst: ZA Date: 12/04/07 Reviewer: LH Date: 12/05/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 117485208003
Units : mg/L

Name : hex 5 pt.
Date : 03-DEC-2007 14:15
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	336a026	117485208026	HEX_5	03-DEC-2007 14:15	S7036
L2	336a027	117485208027	HEX_10	03-DEC-2007 14:43	S7037
L3	336a028	117485208028	HEX_25	03-DEC-2007 15:10	S7038
L4	336a029	117485208029	HEX_50	03-DEC-2007 15:39	S7039
L5	336a030	117485208030	HEX_100	03-DEC-2007 16:07	S7040

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	51772	50835	49957	51984	51023	AVRG		1.96E-5		51114	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	1	10.00	-1	25.00	-2	50.00	2	100.0	0

Analyst: ZA Date: 12/04/07 Reviewer: LH Date: 12/05/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 118030621001
Units : mg/L

Name : Diesel
Date : 21-JAN-2008 14:15
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	021a015	118030621015	DSL_100	21-JAN-2008 14:15	S7962
L2	021a016	118030621016	DSL_500	21-JAN-2008 14:43	S7963
L3	021a017	118030621017	DSL-1000	21-JAN-2008 15:12	S7964
L4	021a018	118030621018	DSL_5000	21-JAN-2008 15:40	S7960
L5	021a019	118030621019	DSL_7500	21-JAN-2008 16:09	S7965
L6	021a024	118030621024	DSL_10	21-JAN-2008 18:32	S7961

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	41129	42801	42843	44229	42562	31359	AVRG		2.45E-5		40820	12	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	100.0	1	500.0	5	1000	5	5000	8	7500	4	10.00	-23

Analyst: CP Date: 01/22/08 Reviewer: LH Date: 01/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201749 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 118030621001

Name : Diesel
Cal Date : 21-JAN-2008

ICV 118030621025 (021a025 21-JAN-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	40820	41655	500.0	510.2	mg/L	2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 178033862001
Units : mg/L

Name : DSL
Date : 23-JAN-2008 16:34
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	023a009	178033862009	DSL_10	23-JAN-2008 16:34	S7961
L2	023a010	178033862010	DSL_100	23-JAN-2008 17:01	S7962
L3	023a011	178033862011	DSL_500	23-JAN-2008 17:29	S7963
L4	023a012	178033862012	DSL_1000	23-JAN-2008 17:56	S7964
L5	023a013	178033862013	DSL_5000	23-JAN-2008 18:23	S7960
L6	023a014	178033862014	DSL_7500	23-JAN-2008 18:51	S7965

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60742	57877	58443	64970	61981	60320	AVRG		1.65E-5		60722	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	0	100.0	-5	500.0	-4	1000	7	5000	2	7500	-1

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201749 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 178033862001

Name : DSL
Cal Date : 23-JAN-2008

ICV 178033862016 (023a016 23-JAN-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	60722	66286	500.0	545.8	mg/L	9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 178035189001
Units : mg/L

Name : HEX_024
Date : 24-JAN-2008 13:37
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a007	178035189007	HEX_5	24-JAN-2008 13:37	S8093
L2	024a008	178035189008	HEX_10	24-JAN-2008 14:04	S8094
L3	024a009	178035189009	HEX_25	24-JAN-2008 14:32	S8095
L4	024a010	178035189010	HEX_50	24-JAN-2008 14:59	S8096
L5	024a011	178035189011	HEX_100	24-JAN-2008 15:26	S8097

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	66995	65277	66174	65324	65865	AVRG		1.52E-5		65927	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	0	50.00	-1	100.0	0

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 178035189002
Units : mg/L

Name : MO_024
Date : 24-JAN-2008 16:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a014	178035189014	MO_50	24-JAN-2008 16:49	S6848
L2	024a016	178035189016	MO_500	24-JAN-2008 17:44	S6850
L3	024a017	178035189017	MO_1000	24-JAN-2008 18:11	S6851
L4	024a018	178035189018	MO_5000	24-JAN-2008 18:38	S6846
L5	024a019	178035189019	MO_7500	24-JAN-2008 19:06	S6847
L6	024a022	178035189022	MO_250	25-JAN-2008 12:03	S6849

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	41900	45900	44141	41943	40193	51101	AVRG		2.26E-5		44196	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-5	500.0	4	1000	0	5000	-5	7500	-9	250.0	16

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCSV Water
EPA 8015B

Inst : GC11A Run Name : DSL_250 IDF : 1.0
Seqnum : 118103019004 File : 071a004 Time : 11-MAR-2008 14:25
Standards: S8077

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	118030621001	21-JAN-2008	40820	44081	250.0	270.0	mg/L	8	15	
Hexacosane	117485208003	03-DEC-2007	51114	51782	50.00	50.65	mg/L	1	15	

Analyst: ATL Date: 03/13/08 Reviewer: MMP Date: 03/13/08

118103019004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCSV Water
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 118103019005 File : 071a005 Time : 11-MAR-2008 14:54
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117485208002	03-DEC-2007	33014	31108	500.0	471.1	mg/L	-6	15	
Hexacosane	117485208003	03-DEC-2007	51114	49735	50.00	48.65	mg/L	-3	15	

Analyst: ATL Date: 03/13/08 Reviewer: MMP Date: 03/13/08

118103019005

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCSV Water
EPA 8015B

Inst : GC11A Run Name : DSL_500 IDF : 1.0
Seqnum : 118103019014 File : 071a014 Time : 11-MAR-2008 19:43
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	118030621001	21-JAN-2008	40820	45578	500.0	558.3	mg/L	12	15	
Hexacosane	117485208003	03-DEC-2007	51114	55658	50.00	54.44	mg/L	9	15	

Analyst: ATL Date: 03/12/08 Reviewer: MMP Date: 03/13/08

118103019014

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCSV Water
EPA 8015B

Inst : GC11A Run Name : MO_500 IDF : 1.0
Seqnum : 118103019015 File : 071a015 Time : 11-MAR-2008 20:12
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117485208002	03-DEC-2007	33014	36883	500.0	558.6	mg/L	12	15	
Hexacosane	117485208003	03-DEC-2007	51114	56845	50.00	55.61	mg/L	11	15	

Analyst: ATL Date: 03/12/08 Reviewer: MMP Date: 03/13/08

118103019015

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 178102689017 File : 071a017 Time : 11-MAR-2008 14:54
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	58886	1000	969.8	mg/L	-3	15	
Hexacosane	178035189001	24-JAN-2008	65927	71379	50.00	54.13	mg/L	8	15	

Analyst: JDG Date: 03/11/08 Reviewer: LH Date: 03/12/08

178102689017

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178102689018 File : 071a018 Time : 11-MAR-2008 15:22
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	40265	500.0	455.5	mg/L	-9	15	
Hexacosane	178035189001	24-JAN-2008	65927	64513	50.00	48.93	mg/L	-2	15	

Analyst: JDG Date: 03/11/08 Reviewer: LH Date: 03/12/08

178102689018

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
Seqnum : 178102689029 File : 071a029 Time : 11-MAR-2008 20:38
Standards: S8077

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	57813	250.0	238.0	mg/L	-5	15	
Hexacosane	178035189001	24-JAN-2008	65927	71572	50.00	54.28	mg/L	9	15	

Analyst: ATL Date: 03/12/08 Reviewer: JDG Date: 03/12/08

178102689029

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178102689030 File : 071a030 Time : 11-MAR-2008 21:06
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	45233	500.0	511.7	mg/L	2	15	
Hexacosane	178035189001	24-JAN-2008	65927	72770	50.00	55.19	mg/L	10	15	

Analyst: ATL Date: 03/12/08 Reviewer: JDG Date: 03/12/08

178102689030

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117485208

Instrument : GC11A
Method : EPA 8015B

Begun : 12/02/07 22:48
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	336a001	X	PRIMER			12/02/07 22:48	1.0	
002	336a002	X	IB			12/02/07 23:16	1.0	
003	336a003	CCV	DSL_500			12/02/07 23:44	1.0	1
004	336a004	CCV	MO_500			12/03/07 00:12	1.0	2
005	336a005	CCV	DSL_500			12/03/07 03:22	1.0	1
006	336a006	CCV	MO_500			12/03/07 03:50	1.0	2
007	336a007	CMARKER	C8-C-50			12/03/07 05:22	1.0	3
008	336a008	IB	CALIB			12/03/07 05:50	1.0	
009	336a009	ICAL	DSL_10			12/03/07 06:18	1.0	4
010	336a010	ICAL	DSL_100			12/03/07 06:46	1.0	5
011	336a011	ICAL	DSL_500			12/03/07 07:14	1.0	6
012	336a012	ICAL	DSL-1000			12/03/07 07:42	1.0	7
013	336a013	ICAL	DSL_5000			12/03/07 08:10	1.0	8
014	336a014	ICAL	DSL_7500			12/03/07 08:39	1.0	9
015	336a015	IB	CALIB			12/03/07 09:07	1.0	
016	336a016	ICV	DSL_500			12/03/07 09:35	1.0	10
017	336a017	X	ICV			12/03/07 10:03	1.0	10
018	336a018	IB	CALIB			12/03/07 10:31	1.0	
019	336a019	ICAL	MO_50			12/03/07 10:59	1.0	11
020	336a020	ICAL	MO_250			12/03/07 11:27	1.0	12
021	336a021	ICAL	MO_500			12/03/07 11:55	1.0	13
022	336a022	ICAL	MO_1000			12/03/07 12:22	1.0	14
023	336a023	ICAL	MO_5000			12/03/07 12:50	1.0	15
024	336a024	ICAL	MO_7500			12/03/07 13:18	1.0	16
025	336a025	IB	CALIB			12/03/07 13:46	1.0	
026	336a026	ICAL	HEX_5			12/03/07 14:15	1.0	17
027	336a027	ICAL	HEX_10			12/03/07 14:43	1.0	18
028	336a028	ICAL	HEX_25			12/03/07 15:10	1.0	19
029	336a029	ICAL	HEX_50			12/03/07 15:39	1.0	20
030	336a030	ICAL	HEX_100			12/03/07 16:07	1.0	21
031	336a031	X	HEX_200			12/03/07 16:35	1.0	22

ZA: 12/04/07 EAH: 12/05/07 LH: 12/06/07

Standards used: 1=S7541 2=S7310 3=S4049 4=S6612 5=S6613 6=S6614 7=S6615 8=S6611 9=S6616 10=S6617 11=S6848 12=S6849 13=S6850 14=S6851 15=S6846 16=S6847 17=S7036 18=S7037 19=S7038 20=S7039 21=S7040 22=S7041

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 118030621

Instrument : GC11A
Method : EPA 8015B
Begun : 01/21/08 06:21
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	021a001	X	PRIMER			01/21/08 06:21	1.0	
002	021a002	X	IB			01/21/08 06:49	1.0	
003	021a003	X	CMARKER			01/21/08 07:17	1.0	1
004	021a004	CCV	DSL_250			01/21/08 07:45	1.0	2
005	021a005	CCV	MO_500			01/21/08 08:14	1.0	3
006	021a006	X	IB			01/21/08 09:29	1.0	
007	021a007	X	CMARKER			01/21/08 09:58	1.0	1
008	021a008	CCV	DSL_250			01/21/08 10:26	1.0	2
009	021a009	CCV	MO_500			01/21/08 10:54	1.0	3
010	021a010	CCV	DSL_250			01/21/08 11:23	1.0	2
011	021a011	CCV	DSL_500			01/21/08 11:54	1.0	4
012	021a012	CCV	DSL_1000			01/21/08 12:22	1.0	5
013	021a013	IB	CALIB			01/21/08 13:18	1.0	
014	021a014	X	DSL_10			01/21/08 13:46	1.0	6
015	021a015	ICAL	DSL_100			01/21/08 14:15	1.0	7
016	021a016	ICAL	DSL_500			01/21/08 14:43	1.0	8
017	021a017	ICAL	DSL-1000			01/21/08 15:12	1.0	9
018	021a018	ICAL	DSL_5000			01/21/08 15:40	1.0	10
019	021a019	ICAL	DSL_7500			01/21/08 16:09	1.0	11
020	021a020	IB	CALIB			01/21/08 16:38	1.0	
021	021a021	X	DSL_500			01/21/08 17:06	10.0	12
022	021a022	X	ICV			01/21/08 17:35	1.0	12
023	021a023	IB	CALIB			01/21/08 18:04	1.0	
024	021a024	ICAL	DSL_10			01/21/08 18:32	1.0	6
025	021a025	ICV	DSL_500			01/21/08 19:01	1.0	12
026	021a026	X	ICV			01/21/08 19:29	1.0	12
027	021a027	X	IB			01/21/08 19:58	1.0	

CP 01/22/08 : The dsl_10 was re-run at end of ICAL because first run had septa contamination.

Analyst: CP Date: 01/22/08 Reviewer: LH Date: 01/22/08

Standards used: 1=S8067 2=S8077 3=S8071 4=S8078 5=S8079 6=S7961 7=S7962 8=S7963 9=S7964 10=S7960 11=S7965 12=S8069

00054

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 118103019

Instrument : GC11A
Method : EPA 8015B
Begun : 03/11/08 12:59
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	071a001	X	IB				03/11/08 12:59	1.0	
002	071a002	X	IB				03/11/08 13:27	1.0	
003	071a003	X	CMARKER				03/11/08 13:56	1.0	1
004	071a004	CCV	DSL_250				03/11/08 14:25	1.0	2
005	071a005	CCV	MO_500				03/11/08 14:54	1.0	3
006	071a006	SAMPLE	201695-001	S	Water	135755	03/11/08 15:53	1.0	
007	071a007	SAMPLE	201695-002	S	Water	135755	03/11/08 16:21	1.0	
008	071a008	SAMPLE	201695-003	S	Water	135755	03/11/08 16:50	1.0	
009	071a009	SAMPLE	201695-004	S	Water	135755	03/11/08 17:19	1.0	
010	071a010	SAMPLE	201749-001	S	Water	135755	03/11/08 17:48	1.0	
011	071a011	SAMPLE	201774-002	S	Water	135755	03/11/08 18:17	1.0	
012	071a012	SAMPLE	201774-003	S	Water	135755	03/11/08 18:45	1.0	
013	071a013	X	CMARKER				03/11/08 19:14	1.0	1
014	071a014	CCV	DSL_500				03/11/08 19:43	1.0	4
015	071a015	CCV	MO_500				03/11/08 20:12	1.0	3
016	071a016	X	CCV				03/11/08 20:40	1.0	4
017	071a017	X	CCV				03/11/08 21:09	1.0	3
018	071a018	CCV	JP5_250				03/11/08 21:37	1.0	5
019	071a019	CCV	JETA_250				03/11/08 22:05	1.0	6
020	071a020	CCV	JP8_250				03/11/08 22:34	1.0	7
021	071a021	X	CCV				03/11/08 23:02	1.0	5
022	071a022	X	CCV				03/11/08 23:30	1.0	6
023	071a023	X	CCV				03/11/08 23:58	1.0	7
024	071a024	SAMPLE	201734-002		Water	135790	03/12/08 00:26	1.0	
025	071a025	SAMPLE	201734-003		Water	135790	03/12/08 00:54	1.0	
026	071a026	SAMPLE	201734-004		Water	135790	03/12/08 01:23	1.0	
027	071a027	SAMPLE	201734-005		Water	135790	03/12/08 01:51	1.0	
028	071a028	SAMPLE	201759-001	S	Water	135790	03/12/08 02:19	1.0	
029	071a029	SAMPLE	201759-002	S	Water	135790	03/12/08 02:47	1.0	
030	071a030	SAMPLE	201783-006	S	Water	135790	03/12/08 03:15	1.0	
031	071a031	SAMPLE	201781-010		Soil	135772	03/12/08 03:43	1.0	
032	071a032	SAMPLE	201781-011		Soil	135772	03/12/08 04:11	1.0	
033	071a033	X	CMARKER				03/12/08 04:39	1.0	1
034	071a034	CCV	DSL_1000				03/12/08 05:07	1.0	8
035	071a035	CCV	MO_500				03/12/08 05:35	1.0	3
036	071a036	CCV	JP5_250				03/12/08 06:03	1.0	5
037	071a037	CCV	JETA_250				03/12/08 06:31	1.0	6
038	071a038	CCV	JP8_250				03/12/08 06:59	1.0	7

Standards used: 1=S8590 2=S8077 3=S8071 4=S8078 5=S8100 6=S8251 7=S8117 8=S8079

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178033862

Instrument : GC17A
Method : EPA 8015B

Begun : 01/23/08 12:22
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	023a001	X	PRIMER			01/23/08 12:22	1.0	
002	023a002	X	IB			01/23/08 12:49	1.0	
003	023a003	X	CMARKER			01/23/08 13:16	1.0	1
004	023a004	CCV	DSL_500			01/23/08 13:44	1.0	2
005	023a005	CCV	MO_500			01/23/08 14:11	1.0	3
006	023a006	IB	CALIB			01/23/08 15:11	1.0	
007	023a007	CMARKER	C8-C50			01/23/08 15:39	1.0	4
008	023a008	IB	CALIB			01/23/08 16:06	1.0	
009	023a009	ICAL	DSL_10			01/23/08 16:34	1.0	5
010	023a010	ICAL	DSL_100			01/23/08 17:01	1.0	6
011	023a011	ICAL	DSL_500			01/23/08 17:29	1.0	7
012	023a012	ICAL	DSL_1000			01/23/08 17:56	1.0	8
013	023a013	ICAL	DSL_5000			01/23/08 18:23	1.0	9
014	023a014	ICAL	DSL_7500			01/23/08 18:51	1.0	10
015	023a015	IB	CALIB			01/23/08 19:18	1.0	
016	023a016	ICV	DSL_500			01/23/08 19:46	1.0	11
017	023a017	X	DSL_500			01/23/08 20:13	1.0	11
018	023a018	IB	CALIB			01/23/08 20:40	1.0	

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S4049 5=S7961 6=S7962 7=S7963 8=S7964 9=S7960 10=S7965 11=S8069

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178035189

Instrument : GC17A
Method : EPA 8015B
Begun : 01/24/08 10:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	024a001	X	PRIMER			01/24/08 10:29	1.0	
002	024a002	X	IB			01/24/08 10:56	1.0	
003	024a003	X	CMARKER			01/24/08 11:24	1.0	1
004	024a004	CCV	DSL_500			01/24/08 11:52	1.0	2
005	024a005	CCV	MO_500			01/24/08 12:19	1.0	3
006	024a006	IB	CALIB			01/24/08 13:09	1.0	
007	024a007	ICAL	HEX_5			01/24/08 13:37	1.0	4
008	024a008	ICAL	HEX_10			01/24/08 14:04	1.0	5
009	024a009	ICAL	HEX_25			01/24/08 14:32	1.0	6
010	024a010	ICAL	HEX_50			01/24/08 14:59	1.0	7
011	024a011	ICAL	HEX_100			01/24/08 15:26	1.0	8
012	024a012	ICAL	HEX_200			01/24/08 15:54	1.0	9
013	024a013	IB	CALIB			01/24/08 16:21	1.0	
014	024a014	ICAL	MO_50			01/24/08 16:49	1.0	10
015	024a015	X	MO_250			01/24/08 17:16	1.0	11
016	024a016	ICAL	MO_500			01/24/08 17:44	1.0	12
017	024a017	ICAL	MO_1000			01/24/08 18:11	1.0	13
018	024a018	ICAL	MO_5000			01/24/08 18:38	1.0	14
019	024a019	ICAL	MO_7500			01/24/08 19:06	1.0	15
020	024a020	IB	CALIB			01/24/08 19:34	1.0	
021	024a021	X	IB			01/25/08 11:21	1.0	
022	024a022	ICAL	MO_250			01/25/08 12:03	1.0	11

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S8093 5=S8094 6=S8095 7=S8096 8=S8097 9=S8098 10=S6848 11=S6849 12=S6850 13=S6851 14=S6846 15=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178102689

Instrument : GC17A
Method : EPA 8015B
Begun : 03/11/08 07:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	071a001	X	PRIMER				03/11/08 07:29	1.0		
002	071a002	X	IB				03/11/08 07:55	1.0		
003	071a003	X	CMARKER				03/11/08 08:23	1.0	1	
004	071a004	CCV	DSL_500				03/11/08 08:50	1.0	2	
005	071a005	CCV	MO_500				03/11/08 09:17	1.0	3	
006	071a006	BLANK	QC431977		Soil	135756	03/11/08 09:53	1.0		
007	071a007	SAMPLE	201781-002		Soil	135756	03/11/08 10:20	1.0		
008	071a008	SAMPLE	201765-001		Soil	135756	03/11/08 10:47	1.0		
009	071a009	MS	QC431979		Soil	135756	03/11/08 11:15	1.0		
010	071a010	MSD	QC431980		Soil	135756	03/11/08 11:42	1.0		
011	071a011	SAMPLE	201704-002		Soil	135756	03/11/08 12:09	1.0		
012	071a012	SAMPLE	201745-030	S	Soil	135756	03/11/08 12:37	1.0		2:BUNKC:12-40=12000
013	071a013	X	IB				03/11/08 13:04	1.0		
014	071a014	SAMPLE	201781-005		Soil	135756	03/11/08 13:31	1.0		
015	071a015	SAMPLE	201766-003		Water	135741	03/11/08 13:59	1.0		
016	071a016	SAMPLE	201766-004		Water	135741	03/11/08 14:26	1.0		
017	071a017	CCV	DSL_1000				03/11/08 14:54	1.0	4	
018	071a018	CCV	MO_500				03/11/08 15:22	1.0	3	
019	071a019	SAMPLE	201777-001		Water	135790	03/11/08 16:04	1.0		
020	071a020	SAMPLE	201777-002		Water	135790	03/11/08 16:31	1.0		
021	071a021	SAMPLE	201777-003		Water	135790	03/11/08 16:59	1.0		
022	071a022	BLANK	QC431974	S	Water	135755	03/11/08 17:26	1.0		
023	071a023	SAMPLE	201774-006	S	Water	135755	03/11/08 17:54	1.0		
024	071a024	BS	QC431975	S	Water	135755	03/11/08 18:22	1.0		
025	071a025	BSD	QC431976	S	Water	135755	03/11/08 18:49	1.0		
026	071a026	SAMPLE	201772-002		Water	135755	03/11/08 19:16	1.0		
027	071a027	SAMPLE	201771-001		Water	135755	03/11/08 19:44	1.0		
028	071a028	SAMPLE	201771-003		Water	135755	03/11/08 20:11	1.0		
029	071a029	CCV	DSL_250				03/11/08 20:38	1.0	5	
030	071a030	CCV	MO_500				03/11/08 21:06	1.0	3	
031	071a031	CCV	JET_250				03/11/08 21:33	1.0	6	
032	071a032	CCV	JP5_250				03/11/08 22:00	1.0	7	
033	071a033	CCV	JP8_250				03/11/08 22:27	1.0	8	
034	071a034	X	CCV				03/11/08 22:54	1.0	5	
035	071a035	X	CCV				03/11/08 23:22	1.0	3	
036	071a036	X	CCV				03/11/08 23:49	1.0	6	
037	071a037	X	CCV				03/12/08 00:16	1.0	7	
038	071a038	X	CCV				03/12/08 00:43	1.0	8	
039	071a039	BLANK	QC432034		Soil	135772	03/12/08 01:10	1.0		
040	071a040	MS	QC432036	S	Soil	135772	03/12/08 01:37	1.0		
041	071a041	MSD	QC432037	S	Soil	135772	03/12/08 02:04	1.0		
042	071a042	BLANK	QC431974		Water	135755	03/12/08 02:32	1.0		
043	071a043	BLANK	QC432121		Water	135790	03/12/08 02:59	1.0		
044	071a044	BLANK	QC432121	S	Water	135790	03/12/08 03:27	1.0		
045	071a045	SAMPLE	201772-001		Water	135755	03/12/08 03:54	1.0		
046	071a046	SAMPLE	201771-006		Water	135755	03/12/08 04:21	1.0		
047	071a047	SAMPLE	201783-004	S	Water	135790	03/12/08 04:48	1.0		
048	071a048	SAMPLE	201783-005	S	Water	135790	03/12/08 05:16	1.0		
049	071a049	X	CMARKER				03/12/08 05:43	1.0	1	
050	071a050	CCV	DSL_1000				03/12/08 06:09	1.0	4	
051	071a051	CCV	MO_500				03/12/08 06:37	1.0	3	
052	071a052	CCV	JET_250				03/12/08 07:04	1.0	6	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178102689

Instrument : GC17A
Method : EPA 8015B
Begun : 03/11/08 07:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	071a053	CCV	JP5_250				03/12/08 07:31	1.0	7	
054	071a054	CCV	JP8_250				03/12/08 07:58	1.0	8	
055	071a055	SAMPLE	201675-004		Soil	135640	03/12/08 08:29	1.0		
056	071a056	SAMPLE	201675-004	S	Soil	135640	03/12/08 08:57	1.0		
057	071a057	SAMPLE	201675-005		Soil	135640	03/12/08 09:24	1.0		
058	071a058	X	IB				03/12/08 09:51	1.0		
059	071a059	SAMPLE	201734-002		Water	135790	03/12/08 10:18	1.0		
060	071a060	SAMPLE	201675-006		Soil	135640	03/12/08 10:45	1.0		
061	071a061	SAMPLE	201675-006	S	Soil	135640	03/12/08 11:13	1.0		
062	071a062	SAMPLE	201675-008		Soil	135640	03/12/08 11:40	1.0		
063	071a063	SAMPLE	201675-008	S	Soil	135640	03/12/08 12:07	1.0		
064	071a064	SAMPLE	201675-009		Soil	135640	03/12/08 12:35	1.0		
065	071a065	SAMPLE	201675-009	S	Soil	135640	03/12/08 13:02	1.0		
066	071a066	X	CMARKER				03/12/08 13:29	1.0	1	
067	071a067	CCV	DSL_250				03/12/08 13:57	1.0	5	
068	071a068	CCV	MO_500				03/12/08 14:24	1.0	3	
069	071a069	CCV	JP5_250				03/12/08 14:52	1.0	7	
070	071a070	CCV	JP8_250				03/12/08 15:19	1.0	8	

Standards used: 1=S8590 2=S8078 3=S8071 4=S8079 5=S8077 6=S8251 7=S8100 8=S8117

SAMPLE PREPARATION SUMMARY

Batch # : 135755
Started By : DJT
Method : 3520C
Spike #1 ID : S8587
Prep Date : 09-MAR-2008
SOP Version : TEH_3520_rv12
Spike #2 ID : S8463
Analysis : TEH
Finished By : ECB
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
201695-001		Water	500	2.5	1	0.005	7	.5			3630C	TEH	
201695-002		Water	500	2.5	1	0.005	7	.5			3630C	TEH	
201695-003		Water	500	2.5	1	0.005	7	.5			3630C	TEH	
201695-004		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
201749-001		Water	500	2.5	1	0.005	6	.5			3630C	TEHM	
201771-001		Water	500	2.5	1	0.005	2	.5				TEH	hcl preserved bottle
201771-003		Water	500	2.5	1	0.005	2	.5				TEH	hcl preserved bottle
201771-004		Water	500	2.5	1	0.005	2	.5				TEH	hcl preserved bottle
201771-005		Water	500	2.5	1	0.005	2	.5				TEH	hcl preserved bottle
201771-006		Water	500	2.5	1	0.005	2	.5				TEH	hcl preserved bottle
201772-001		Water	500	2.5	1	0.005	7	.5				TEH	
201772-002		Water	500	2.5	1	0.005	7	.5				TEH	
201774-002		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
201774-003		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
201774-006		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
QC431974	BLANK	Water	500	2.5	1	0.005		.5			3630C		
QC431975	BS	Water	500	2.5	1	0.005		.5	.5		3630C		
QC431976	BSD	Water	500	2.5	1	0.005		.5	.5		3630C		

Analyst: ATL Date: 03/13/08 Reviewer: MMP Date: 03/13/08

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

Page 94 BK 2642

LIMS Batch No: 135755
LIMS Analysis: TEH/M
Date Extracted: 3/9/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☒ EPA 3630c Silica Gel

	Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
	201695-001 L	500	7	2.5	X	
	002					
	003					
	004 F					
5	201749-001 H		6			
	201771-001 E		2			HCL PRESERVED BOTTLE
	003					
	004					
	005					
10	006					
	201772-001		7			RFW 3/12/08
	002					
	201774-002 A				X	
	003					
15	006					
	MB QC 431974		NA			
	BS 5					
	BSD 6					
20						
						RFW 3/12/08

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S8587A	DT 3/9/08
0.5 mL of TEH_SP was added to all spikes	S8463A	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS 073967	
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM148028	
Extraction Start Time:	1545	
Extraction End Time:	1030	SFH 3/10/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	ELB 3/11/08
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM47281748	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	

3/9/08
Extraction Chemist **Date**

Contined from Page /
Continued on Page /

3/12/08
Reviewed by **Date**

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: ECB
Cleanup Date: 3/11/08

Benchbook # **BK 2679**
Page 30

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
201695-001	135755	1.0	1.0	
-002				
-003				
-004				
201749-001				
201774-002				
-003				
-006				
BLANK QC431974				
BS 5				
BSD 6				

RFW 3/12/08

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	NA	GEB 3/11/08
☒ Extracts were cleaned up using 1.0 g cartridges	SP9742	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM48028	
Concentrated to volumes as noted above	✓	

3/11/08
Extraction Chemist / Date

Continued from page —
Continued on page —

3/12/08
Reviewed by / Date

Curtis & Tompkins, Ltd.

Volatile Organics
Data
(Water)

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX303RB304	Batch#:	135935
Lab ID:	201749-001	Sampled:	03/06/08
Matrix:	Water	Received:	03/06/08
Units:	ug/L	Analyzed:	03/13/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.0
Freon 113	ND	2.0	0.4
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	2.0
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	2.0
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	0.2 J	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	2.0
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.2
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

19.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX303RB304	Batch#:	135935
Lab ID:	201749-001	Sampled:	03/06/08
Matrix:	Water	Received:	03/06/08
Units:	ug/L	Analyzed:	03/13/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-123
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	103	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

19.0

00065

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	TB030608	Batch#:	135809
Lab ID:	201749-002	Sampled:	03/06/08
Matrix:	Water	Received:	03/06/08
Units:	ug/L	Analyzed:	03/11/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.0
Freon 113	ND	2.0	0.4
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	2.0
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.1 J	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	2.0
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	2.0
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

20.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	TB030608	Batch#:	135809
Lab ID:	201749-002	Sampled:	03/06/08
Matrix:	Water	Received:	03/06/08
Units:	ug/L	Analyzed:	03/11/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-123
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	103	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

20.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC432200	Batch#:	135809
Matrix:	Water	Analyzed:	03/11/08
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.0
Freon 113	ND	2.0	0.4
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	2.0
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	2.0
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	2.0
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

21.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC432200	Batch#:	135809
Matrix:	Water	Analyzed:	03/11/08
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-123
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	104	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

21.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC432669	Batch#:	135935
Matrix:	Water	Analyzed:	03/13/08
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.0
Freon 113	ND	2.0	0.4
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	2.0
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	2.0
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	2.0
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.2
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

22.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Dil'n Fac:	1.000
Lab ID:	QC432669	Batch#:	135935
Matrix:	Water	Analyzed:	03/13/08
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	0.4 J	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-123
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	104	80-120

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

22.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	135809
Units:	ug/L	Analyzed:	03/11/08
Diln Fac:	1.000		

Type: BS Lab ID: QC432201

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	30.00	31.32	104	77-132
Benzene	30.00	29.87	100	80-120
Trichloroethene	30.00	29.84	99	80-120
Toluene	30.00	29.56	99	80-121
Chlorobenzene	30.00	27.63	92	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-123
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	99	80-120

Type: BSD Lab ID: QC432202

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	30.00	32.27	108	77-132	3	20
Benzene	30.00	30.47	102	80-120	2	20
Trichloroethene	30.00	30.54	102	80-120	2	20
Toluene	30.00	29.80	99	80-121	1	20
Chlorobenzene	30.00	28.28	94	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-123
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5030B
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	135935
Units:	ug/L	Analyzed:	03/13/08
Diln Fac:	1.000		

Type: BS Lab ID: QC432667

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	21.85	109	77-132
Benzene	20.00	20.69	103	80-120
Trichloroethene	20.00	21.36	107	80-120
Toluene	20.00	21.68	108	80-121
Chlorobenzene	20.00	21.06	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-123
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	91	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC432668

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	22.07	110	77-132	1	20
Benzene	20.00	19.11	96	80-120	8	20
Trichloroethene	20.00	19.99	100	80-120	7	20
Toluene	20.00	20.26	101	80-121	7	20
Chlorobenzene	20.00	19.96	100	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-123
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-120

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 201749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458092640017 File : fc417 Time : 04-MAR-2008 16:23

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	65237	19.52	
75	30% - 60% of mass 95	143552	42.96	
95		334122		
96	5% - 9% of mass 95	21794	6.52	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	300053	89.80	
175	5% - 9% of mass 174	23538	7.84	
176	> 95% and < 101% of mass 174	285162	95.04	
177	5% - 9% of mass 176	18664	6.55	

BO: 03/05/08 EAH: 03/05/08 LW: 03/06/08

458092640017

CURTIS & TOMPKINS BFB TUNE FOR 201749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458094087002 File : fc502 Time : 05-MAR-2008 08:41

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	23869	20.13	
75	30% - 60% of mass 95	50253	42.39	
95		118546		
96	5% - 9% of mass 95	8191	6.91	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	98309	82.93	
175	5% - 9% of mass 174	7848	7.98	
176	> 95% and < 101% of mass 174	95034	96.67	
177	5% - 9% of mass 176	5815	6.12	

BO: 03/05/08 EAH: 03/05/08 LW: 03/06/08

458094087002

CURTIS & TOMPKINS BFB TUNE FOR 201749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458105593005 File : fcd05 Time : 13-MAR-2008 09:31

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	85514	19.98	
75	30% - 60% of mass 95	186858	43.65	
95		428096		
96	5% - 9% of mass 95	29916	6.99	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	369088	86.22	
175	5% - 9% of mass 174	27469	7.44	
176	> 95% and < 101% of mass 174	365013	98.90	
177	5% - 9% of mass 176	23656	6.48	

Analyst: BO Date: 03/13/08 Reviewer: LW Date: 03/13/08

458105593005

CURTIS & TOMPKINS BFB TUNE FOR 201749 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838094261011 File : kc511 Time : 05-MAR-2008 16:51

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11969	18.29	
75	30% - 60% of mass 95	28947	44.23	
95		65453		
96	5% - 9% of mass 95	4482	6.85	
173	< 2% of mass 174	279	0.55	
174	> 50% and < 100% of mass 95	50461	77.10	
175	5% - 9% of mass 174	3677	7.29	
176	> 95% and < 101% of mass 174	49936	98.96	
177	5% - 9% of mass 176	3323	6.65	

Analyst: ACM Date: 03/06/08 Reviewer: LW Date: 03/06/08

838094261011

CURTIS & TOMPKINS BFB TUNE FOR 201749 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838102705005 File : kcb05 Time : 11-MAR-2008 10:10

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	14933	20.23	
75	30% - 60% of mass 95	35464	48.04	
95		73824		
96	5% - 9% of mass 95	4658	6.31	
173	< 2% of mass 174	341	0.64	
174	> 50% and < 100% of mass 95	53594	72.60	
175	5% - 9% of mass 174	3917	7.31	
176	> 95% and < 101% of mass 174	51696	96.46	
177	5% - 9% of mass 176	3414	6.60	

Analyst: ACM Date: 03/12/08 Reviewer: LW Date: 03/12/08

838102705005

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 MSVOA Water: EPA 8260B

Inst : MSVOA06
Calnum : 458092640002
Units : ug/L

Name : 826GOX6W
Date : 04-MAR-2008 17:26
X Axis : R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fc419	458092640019	0.25/0.5PPB	04-MAR-2008 17:26	S8368 (2000000X), S8400 (1000000X), S8151 (2000000X), S8559 (1000X)
L2	fc420	458092640020	0.5/1PPB	04-MAR-2008 18:00	S8368 (1000000X), S8400 (500000X), S8151 (1000000X), S8559 (1000X)
L3	fc421	458092640021	2PPB	04-MAR-2008 18:35	S8368 (250000X), S8400 (250000X), S8151 (500000X), S8559 (1000X)
L4	fc422	458092640022	5PPB	04-MAR-2008 19:09	S8368 (100000X), S8400 (100000X), S8151 (200000X), S8559 (1000X)
L5	fc423	458092640023	10PPB	04-MAR-2008 19:43	S8368 (50000X), S8400 (50000X), S8151 (100000X), S8559 (1000X)
L6	fc424	458092640024	20PPB	04-MAR-2008 20:18	S8368 (25000X), S8400 (25000X), S8151 (50000X), S8559 (1000X)
L7	fc425	458092640025	50PPB	04-MAR-2008 20:53	S8368 (10000X), S8400 (10000X), S8151 (20000X), S8559 (1000X)
L8	fc426	458092640026	75PPB	04-MAR-2008 21:28	S8368 (6667X), S8400 (6667X), S8151 (13330X), S8559 (1000X)
L9	fc427	458092640027	100PPB	04-MAR-2008 22:02	S8368 (5000X), S8400 (5000X), S8151 (10000X), S8559 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.7487	0.9571m	0.9495	0.9172	0.9679	0.9811	0.8919	0.9755	AVRG		1.08272		0.9236	8	15	0.05	0.99	
Chloromethane		1.3532	1.4292	1.3110	1.3469	1.2913	1.2901	1.2261	1.2721	AVRG		0.76046		1.3150	5	15	0.10	0.99	
Vinyl Chloride	0.8249	0.8313	0.9667	0.9173	0.9450	0.9508	0.9468	0.8887	0.9371	AVRG		1.09639		0.9121	6	15	0.05	0.99	
Bromomethane		0.4796	0.4826	0.4055	0.4547	0.4542	0.4787	0.4609	0.4713	AVRG		2.16948		0.4609	5	15	0.05	0.99	
Chloroethane		0.4574m	0.4942m	0.4545	0.4580	0.4568	0.4552	0.4373	0.4516	AVRG		2.18286		0.4581	4	15	0.05	0.99	
Trichlorofluoromethane		0.5948	0.6941	0.7733	0.7510	0.7311	0.7002	0.6572	0.7143	AVRG		1.42451		0.7020	8	15	0.05	0.99	
Acetone			0.3924	0.4337m	0.4487	0.3950	0.4333	0.4016	0.4311	AVRG		2.38431		0.4194	5	15	0.05	0.99	
Freon 113	0.2269	0.2977m	0.1633	0.4065	0.5575	0.4407	0.5556	0.5222	0.5540	QUAD	0.70822	1.93777	-0.00247	0.4138	0.998	15	0.05	0.99	
1,1-Dichloroethene		0.4308	0.3798	0.4398	0.5316	0.4512	0.5208	0.4950	0.5061	AVRG		2.13048		0.4694	11	15	0.05	0.99	
Methylene Chloride			0.8552	0.7309	0.7998	0.7770	0.7911	0.7595	0.7626	AVRG		1.27826		0.7823	5	15	0.05	0.99	
Carbon Disulfide		1.9549	1.6103	1.8811	2.2031	1.9335	2.1635	2.0145	2.0838	AVRG		0.50490		1.9806	9	15	0.05	0.99	
MTBE		1.8649	1.7762	1.7853	1.9068	1.9115	1.9361	1.8371	1.8734	AVRG		0.53723		1.8614	3	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5883	0.5397	0.5563	0.6385	0.5756	0.6126	0.5761	0.5838	AVRG		1.71274		0.5839	5	15	0.05	0.99	
Vinyl Acetate			1.2733	1.0994	1.3784	1.5938	1.6697	1.5228	1.4198	AVRG		0.70302		1.4224	14	15	0.05	0.99	
1,1-Dichloroethane		1.2472	1.2294	1.1472	1.2885	1.2098	1.2740	1.1834	1.1966	AVRG		0.81831		1.2220	4	15	0.10	0.99	
2-Butanone			0.4742	0.4665	0.4880	0.4968	0.5363	0.5031	0.5239	AVRG		2.00642		0.4984	5	15	0.05	0.99	
2,2-Dichloropropane		0.5560	0.5035	0.5823	0.6541	0.5960	0.6752	0.6288	0.6355	AVRG		1.65586		0.6039	9	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7712	0.6861	0.6408	0.6982	0.6810	0.6991	0.6621	0.6640	AVRG		1.45386		0.6878	6	15	0.05	0.99	
Chloroform		1.1928	1.1043	1.0190	1.1063	1.0748	1.0995	1.0432	1.0373	AVRG		0.92196		1.0846	5	15	0.05	0.99	
Bromochloromethane		0.3722	0.3741	0.3618	0.3991	0.3844	0.3906	0.3755	0.3703	AVRG		2.64196		0.3785	3	15	0.05	0.99	
1,1,1-Trichloroethane		0.5629	0.5059	0.5843	0.7218	0.6374	0.7164	0.6737	0.6935	AVRG		1.56986		0.6370	12	15	0.05	0.99	
1,1-Dichloropropene		0.3699	0.3363	0.3910	0.4826	0.4252	0.4826	0.4504	0.4774	AVRG		2.34228		0.4269	13	15	0.05	0.99	
Carbon Tetrachloride	0.2072	0.2609	0.2170	0.2693	0.3353	0.2978	0.3568			QUAD	0.13371	3.42739	-0.03533	0.2778	0.999	15	0.05	0.99	
1,2-Dichloroethane		0.4939m	0.5214	0.4899	0.5312	0.5196	0.5330	0.5011	0.5128	AVRG		1.94985		0.5129	3	15	0.05	0.99	

458092640002

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.5455	1.4737	1.3629	1.5584	1.4538	1.5302	1.4198	1.4591	AVRG		0.67777		1.4754	5	15	0.05	0.99	
Trichloroethene		0.2894	0.3036	0.3272	0.3731	0.3278	0.3572	0.3479	0.3607	AVRG		2.97739		0.3359	9	15	0.05	0.99	
1,2-Dichloropropane		0.4685	0.4294	0.4166	0.4664	0.4554	0.4637	0.4360	0.4418	AVRG		2.23604		0.4472	4	15	0.05	0.99	
Bromodichloromethane		0.4725	0.4817	0.4522	0.5020	0.5037	0.5138	0.5046	0.4978	AVRG		2.03647		0.4910	4	15	0.05	0.99	
Dibromomethane		0.2597	0.2782	0.2612	0.2902	0.2927	0.3024	0.2863	0.2921	AVRG		3.53557		0.2828	5	15	0.05	0.99	
4-Methyl-2-Pentanone			0.4901	0.5337	0.5395	0.5754	0.6446	0.5964	0.6355	AVRG		1.74337		0.5736	10	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5631	0.6044	0.5787	0.6355	0.6355	0.6490	0.6266	0.6274	AVRG		1.62592		0.6150	5	15	0.05	0.99	
Toluene		0.7557	0.7932	0.7482	0.8852	0.8184	0.8680	0.8073	0.8084	AVRG		1.23373		0.8106	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5403	0.5372	0.5007	0.5776	0.5737	0.5933	0.5760	0.5849	AVRG		1.78423		0.5605	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.2295	0.2130	0.1983	0.2182	0.2104	0.2126	0.2043	0.2070	AVRG		4.72427		0.2117	4	15	0.05	0.99	
2-Hexanone			0.3896	0.4116	0.4916	0.4727	0.5436	0.4973	0.5512	AVRG		2.08487		0.4796	13	15	0.05	0.99	
1,3-Dichloropropane		0.7577	0.7159	0.6782	0.7626	0.7682	0.7761	0.7302	0.7580	AVRG		1.34523		0.7434	4	15	0.05	0.99	
Tetrachloroethene		0.3307	0.3034	0.3157	0.3960	0.3506	0.3971	0.3790	0.4058	AVRG		2.77925		0.3598	11	15	0.05	0.99	
Dibromochloromethane		0.4320	0.4728	0.4505	0.5093	0.5003	0.5412	0.5083	0.5170	AVRG		2.03487		0.4914	7	15	0.05	0.99	
1,2-Dibromoethane		0.3710	0.4006	0.3729	0.4228	0.4181	0.4389	0.4129	0.4235	AVRG		2.45354		0.4076	6	15	0.05	0.99	
Chlorobenzene		1.0566	1.1060	0.9804	1.1270	1.0958	1.0960	1.0307	1.0583	AVRG		0.93558		1.0689	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3876	0.3953	0.3598	0.4097	0.4074	0.4166	0.3898	0.4073	AVRG		2.52088		0.3967	5	15	0.05	0.99	
Ethylbenzene		1.5704	1.6197	1.5216	1.8506	1.6977	1.8086	1.6343	1.7098	AVRG		0.59646		1.6766	7	15	0.05	0.99	
m,p-Xylenes	0.4945	0.5499	0.6160	0.5828	0.6809	0.6426	0.6699	0.6045	0.6043	AVRG		1.65279		0.6050	10	15	0.05	0.99	
o-Xylene		0.5705	0.6378	0.5983	0.6820	0.6660	0.6960	0.6408	0.6584	AVRG		1.55348		0.6437	7	15	0.05	0.99	
Styrene		1.0351	1.1588	1.0785	1.2394	1.2287	1.2582	1.1751	1.1961	AVRG		0.85380		1.1712	7	15	0.05	0.99	
Bromoform		0.3200	0.3593	0.3487	0.3922	0.3835	0.4234	0.3950	0.4160	AVRG		2.63317		0.3798	9	15	0.10	0.99	
Isopropylbenzene		2.3330	2.3010	2.3466	3.1554	2.6759	2.9946	2.7777	2.7785	AVRG		0.37448		2.6703	12	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.0508	1.1229	1.1072	1.2892	1.2128	1.2483	1.1626	1.1578	AVRG		0.85547		1.1690	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9929	0.9506	0.9170	1.0567	0.9557	1.0240	0.9490	0.9730	AVRG		1.02317		0.9774	5	15	0.05	0.99	
Propylbenzene		2.8669	2.9470	2.9924	3.9631	3.3531	3.5977	3.3733	3.4442	AVRG		0.30146		3.3172	11	15	0.05	0.99	
Bromobenzene		0.8715	0.9813	0.8496	1.0356	0.9578	0.9807	0.9433	0.9593	AVRG		1.05552		0.9474	6	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.1161	2.0669	1.9989	2.6512	2.3539	2.5032	2.3190	2.3237	AVRG		0.43637		2.2916	10	15	0.05	0.99	
2-Chlorotoluene		2.1890	2.4890	2.1070	2.6999	2.4353	2.5475	2.3755	2.4415	AVRG		0.41484		2.4106	8	15	0.05	0.99	
4-Chlorotoluene		2.2423	2.3744	2.1034	2.5418	2.3243	2.4358	2.2479	2.2764	AVRG		0.43135		2.3183	6	15	0.05	0.99	
tert-Butylbenzene		1.6055	1.4849	1.6434	2.1445	1.8025	1.9711	1.8981	1.9188	AVRG		0.55291		1.8086	12	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.2005	2.3376	2.2433	2.7520	2.4983	2.5893	2.4285	2.4103	AVRG		0.41111		2.4325	7	15	0.05	0.99	
sec-Butylbenzene	1.6100	2.2039	2.0387	2.3193	3.1915	2.6821	3.0151	2.8347	2.9370	QUAD	0.32392	0.34376	-8.52E-6	2.5369	0.999	15	0.05	0.99	
para-Isopropyl Toluene		1.9797	1.9759	2.0197	2.7008	2.2796	2.5101	2.3832	2.4129	AVRG		0.43807		2.2827	12	15	0.05	0.99	
1,3-Dichlorobenzene		1.5363	1.6145	1.4715	1.7343	1.6639	1.6449	1.5835	1.6233	AVRG		0.62150		1.6090	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.6617	1.7268	1.5308	1.8271	1.7346	1.7262	1.6679	1.6927	AVRG		0.58963		1.6960	5	15	0.05	0.99	
n-Butylbenzene		1.5463m	1.6837	1.7950	2.3578	2.0249	2.2833	2.1501	2.2441	AVRG		0.49735		2.0107	15	15	0.05	0.99	
1,2-Dichlorobenzene		1.3151	1.6164	1.4465	1.7585	1.6202	1.6761	1.6091	1.6266	AVRG		0.63149		1.5836	9	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2443	0.2001	0.1761	0.2143	0.1953	0.2302	0.2145	0.2277	AVRG		4.69898		0.2128	10	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8721	0.8518	0.8256	0.9268	0.9218	0.9752	0.9426	0.9807	AVRG		1.09641		0.9121	6	15	0.05	0.99	
Hexachlorobutadiene	0.1718	0.2046	0.2417	0.2750	0.3652	0.3052	0.3474	0.3368	0.3674	QUAD	0.07758	3.20059	-0.01264	0.2906	0.999	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.9527m	2.2736	2.2578	2.7121	2.7111	3.0055	2.8534	2.9705	AVRG		0.38579		2.5921	15	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.7742	0.8006	0.7505	0.9172	0.8898	0.9539	0.9189	0.9567	AVRG		1.14913		0.8702	9	15	0.05	0.99	
Dibromofluoromethane							0.5866			AVRG		1.70488		0.5866	0	15	0.05	0.99	
1,2-Dichloroethane-d4							0.3696			AVRG		2.70579		0.3696	0	15	0.05	0.99	
Toluene-d8							1.0162			AVRG		0.98408		1.0162	0	15	0.05	0.99	
Bromofluorobenzene							0.9204			AVRG		1.08643		0.9204	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	-19	2.000	4	5.000	3	10.00	-1	20.00	5	50.00	6	75.00	-3	100.0	6
Chloromethane			1.000	3	2.000	9	5.000	0	10.00	2	20.00	-2	50.00	-2	75.00	-7	100.0	-3
Vinyl Chloride	0.500	-10	1.000	-9	2.000	6	5.000	1	10.00	4	20.00	4	50.00	4	75.00	-3	100.0	3
Bromomethane			1.000	4	2.000	5	5.000	-12	10.00	-1	20.00	-1	50.00	4	75.00	0	100.0	2
Chloroethane			1.000	0	2.000	8	5.000	-1	10.00	0	20.00	0	50.00	-1	75.00	-5	100.0	-1
Trichlorofluoromethane			1.000	-15	2.000	-1	5.000	10	10.00	7	20.00	4	50.00	0	75.00	-6	100.0	2
Acetone					2.000	-6	5.000	3	10.00	7	20.00	-6	50.00	3	75.00	-4	100.0	3
Freon 113	0.250	227	0.500	99	2.000	-33	5.000	-7	10.00	14	20.00	-12	50.00	5	75.00	-3	100.0	0
1,1-Dichloroethene			0.500	-8	2.000	-19	5.000	-6	10.00	13	20.00	-4	50.00	11	75.00	5	100.0	8
Methylene Chloride					2.000	9	5.000	-7	10.00	2	20.00	-1	50.00	1	75.00	-3	100.0	-3
Carbon Disulfide			0.500	-1	2.000	-19	5.000	-5	10.00	11	20.00	-2	50.00	9	75.00	2	100.0	5
MTBE			0.500	0	2.000	-5	5.000	-4	10.00	2	20.00	3	50.00	4	75.00	-1	100.0	1
trans-1,2-Dichloroethene			0.500	1	2.000	-8	5.000	-5	10.00	9	20.00	-1	50.00	5	75.00	-1	100.0	0
Vinyl Acetate					2.000	-10	5.000	-23	10.00	-3	20.00	12	50.00	17	75.00	7	100.0	0
1,1-Dichloroethane			0.500	2	2.000	1	5.000	-6	10.00	5	20.00	-1	50.00	4	75.00	-3	100.0	-2
2-Butanone					2.000	-5	5.000	-6	10.00	-2	20.00	0	50.00	8	75.00	1	100.0	5
2,2-Dichloropropane			0.500	-8	2.000	-17	5.000	-4	10.00	8	20.00	-1	50.00	12	75.00	4	100.0	5
cis-1,2-Dichloroethene			0.500	12	2.000	0	5.000	-7	10.00	2	20.00	-1	50.00	2	75.00	-4	100.0	-3
Chloroform			0.500	10	2.000	2	5.000	-6	10.00	2	20.00	-1	50.00	1	75.00	-4	100.0	-4
Bromochloromethane			0.500	-2	2.000	-1	5.000	-4	10.00	5	20.00	2	50.00	3	75.00	-1	100.0	-2
1,1,1-Trichloroethane			0.500	-12	2.000	-21	5.000	-8	10.00	13	20.00	0	50.00	12	75.00	6	100.0	9
1,1-Dichloropropene			0.500	-13	2.000	-21	5.000	-8	10.00	13	20.00	0	50.00	13	75.00	5	100.0	12
Carbon Tetrachloride	0.250	24	0.500	16	2.000	-19	5.000	-6	10.00	12	20.00	-4	50.00	0				
1,2-Dichloroethane			0.500	-4	2.000	2	5.000	-4	10.00	4	20.00	1	50.00	4	75.00	-2	100.0	0
Benzene			0.500	5	2.000	0	5.000	-8	10.00	6	20.00	-1	50.00	4	75.00	-4	100.0	-1
Trichloroethene			0.500	-14	2.000	-10	5.000	-3	10.00	11	20.00	-2	50.00	6	75.00	4	100.0	7
1,2-Dichloropropane			0.500	5	2.000	-4	5.000	-7	10.00	4	20.00	2	50.00	4	75.00	-3	100.0	-1
Bromodichloromethane			0.500	-4	2.000	-2	5.000	-8	10.00	2	20.00	3	50.00	5	75.00	3	100.0	1
Dibromomethane			0.500	-8	2.000	-2	5.000	-8	10.00	3	20.00	3	50.00	7	75.00	1	100.0	3
4-Methyl-2-Pentanone					2.000	-15	5.000	-7	10.00	-6	20.00	0	50.00	12	75.00	4	100.0	11
cis-1,3-Dichloropropene			0.500	-8	2.000	-2	5.000	-6	10.00	3	20.00	3	50.00	6	75.00	2	100.0	2
Toluene			0.500	-7	2.000	-2	5.000	-8	10.00	9	20.00	1	50.00	7	75.00	0	100.0	0
trans-1,3-Dichloropropene			0.500	-4	2.000	-4	5.000	-11	10.00	3	20.00	2	50.00	6	75.00	3	100.0	4
1,1,2-Trichloroethane			0.500	8	2.000	1	5.000	-6	10.00	3	20.00	-1	50.00	0	75.00	-4	100.0	-2
2-Hexanone					2.000	-19	5.000	-14	10.00	2	20.00	-1	50.00	13	75.00	4	100.0	15
1,3-Dichloropropane			0.500	2	2.000	-4	5.000	-9	10.00	3	20.00	3	50.00	4	75.00	-2	100.0	2
Tetrachloroethene			0.500	-8	2.000	-16	5.000	-12	10.00	10	20.00	-3	50.00	10	75.00	5	100.0	13
Dibromochloromethane			0.500	-12	2.000	-4	5.000	-8	10.00	4	20.00	2	50.00	10	75.00	3	100.0	5
1,2-Dibromoethane			0.500	-9	2.000	-2	5.000	-9	10.00	4	20.00	3	50.00	8	75.00	1	100.0	4
Chlorobenzene			0.500	-1	2.000	3	5.000	-8	10.00	5	20.00	3	50.00	3	75.00	-4	100.0	-1
1,1,1,2-Tetrachloroethane			0.500	-2	2.000	0	5.000	-9	10.00	3	20.00	3	50.00	5	75.00	-2	100.0	3
Ethylbenzene			0.500	-6	2.000	-3	5.000	-9	10.00	10	20.00	1	50.00	8	75.00	-3	100.0	2

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-18	1.000	-9	4.000	2	10.00	-4	20.00	13	40.00	6	100.0	11	150.0	0	200.0	0
o-Xylene			0.500	-11	2.000	-1	5.000	-7	10.00	6	20.00	3	50.00	8	75.00	0	100.0	2
Styrene			0.500	-12	2.000	-1	5.000	-8	10.00	6	20.00	5	50.00	7	75.00	0	100.0	2
Bromoform			0.500	-16	2.000	-5	5.000	-8	10.00	3	20.00	1	50.00	11	75.00	4	100.0	10
Isopropylbenzene			0.500	-13	2.000	-14	5.000	-12	10.00	18	20.00	0	50.00	12	75.00	4	100.0	4
1,1,2,2-Tetrachloroethane			0.500	-10	2.000	-4	5.000	-5	10.00	10	20.00	4	50.00	7	75.00	-1	100.0	-1
1,2,3-Trichloropropane			0.500	2	2.000	-3	5.000	-6	10.00	8	20.00	-2	50.00	5	75.00	-3	100.0	0
Propylbenzene			0.500	-14	2.000	-11	5.000	-10	10.00	19	20.00	1	50.00	8	75.00	2	100.0	4
Bromobenzene			0.500	-8	2.000	4	5.000	-10	10.00	9	20.00	1	50.00	4	75.00	0	100.0	1
1,3,5-Trimethylbenzene			0.500	-8	2.000	-10	5.000	-13	10.00	16	20.00	3	50.00	9	75.00	1	100.0	1
2-Chlorotoluene			0.500	-9	2.000	3	5.000	-13	10.00	12	20.00	1	50.00	6	75.00	-1	100.0	1
4-Chlorotoluene			0.500	-3	2.000	2	5.000	-9	10.00	10	20.00	0	50.00	5	75.00	-3	100.0	-2
tert-Butylbenzene			0.500	-11	2.000	-18	5.000	-9	10.00	19	20.00	0	50.00	9	75.00	5	100.0	6
1,2,4-Trimethylbenzene			0.500	-10	2.000	-4	5.000	-8	10.00	13	20.00	3	50.00	6	75.00	0	100.0	-1
sec-Butylbenzene	0.250	85	0.500	41	2.000	-14	5.000	-14	10.00	13	20.00	-6	50.00	4	75.00	-3	100.0	1
para-Isopropyl Toluene			0.500	-13	2.000	-13	5.000	-12	10.00	18	20.00	0	50.00	10	75.00	4	100.0	6
1,3-Dichlorobenzene			0.500	-5	2.000	0	5.000	-9	10.00	8	20.00	3	50.00	2	75.00	-2	100.0	1
1,4-Dichlorobenzene			0.500	-2	2.000	2	5.000	-10	10.00	8	20.00	2	50.00	2	75.00	-2	100.0	0
n-Butylbenzene			0.500	-23	2.000	-16	5.000	-11	10.00	17	20.00	1	50.00	14	75.00	7	100.0	12
1,2-Dichlorobenzene			0.500	-17	2.000	2	5.000	-9	10.00	11	20.00	2	50.00	6	75.00	2	100.0	3
1,2-Dibromo-3-Chloropropane			0.500	15	2.000	-6	5.000	-17	10.00	1	20.00	-8	50.00	8	75.00	1	100.0	7
1,2,4-Trichlorobenzene			0.500	-4	2.000	-7	5.000	-9	10.00	2	20.00	1	50.00	7	75.00	3	100.0	8
Hexachlorobutadiene	0.250	-14	0.500	-19	2.000	-19	5.000	-11	10.00	16	20.00	-4	50.00	4	75.00	-3	100.0	1
Naphthalene			0.500	-25	2.000	-12	5.000	-13	10.00	5	20.00	5	50.00	16	75.00	10	100.0	15
1,2,3-Trichlorobenzene			0.500	-11	2.000	-8	5.000	-14	10.00	5	20.00	2	50.00	10	75.00	6	100.0	10
Dibromofluoromethane													50.00	0				
1,2-Dichloroethane-d4													50.00	0				
Toluene-d8													50.00	0				
Bromofluorobenzene													50.00	0				

Analyst: BO Date: 03/05/08 Reviewer: LW Date: 03/06/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

458092640002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458092640002 Cal Date : 04-MAR-2008 Type : WATER

ICV 458092640028 (fc428 04-MAR-2008) stds: S8534 (10000X), S8559 (1000X)
ICV 458094087006 (fc506 05-MAR-2008) stds: S8260 (10000X), S8538 (10000X), S8559 (1000X)

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	458092640028	04-MAR-2008	0.9236	0.6321	25.00	17.11	ug/L	**-32**	20	v- ***
Chloromethane	458092640028	04-MAR-2008	1.3150	1.0856	25.00	20.64	ug/L	-17	20	
Vinyl Chloride	458092640028	04-MAR-2008	0.9121	0.8093	25.00	22.18	ug/L	-11	20	
Bromomethane	458092640028	04-MAR-2008	0.4609	0.3932	25.00	21.32	ug/L	-15	20	
Chloroethane	458092640028	04-MAR-2008	0.4581	0.4119	25.00	22.48	ug/L	-10	20	
Trichlorofluoromethane	458092640028	04-MAR-2008	0.7020	0.6675	25.00	23.77	ug/L	-5	20	
Acetone	458094087006	05-MAR-2008	0.4194	0.6352	25.00	37.87	ug/L	**51**	30	v+ ***
Freon 113	458094087006	05-MAR-2008	0.4138	0.5191	25.00	25.44	ug/L	2	20	
1,1-Dichloroethene	458094087006	05-MAR-2008	0.4694	0.5340	25.00	28.44	ug/L	14	20	
Methylene Chloride	458094087006	05-MAR-2008	0.7823	0.8122	25.00	25.96	ug/L	4	20	
Carbon Disulfide	458094087006	05-MAR-2008	1.9806	1.7373	25.00	21.93	ug/L	-12	20	
MTBE	458094087006	05-MAR-2008	1.8614	1.9095	25.00	25.65	ug/L	3	20	
trans-1,2-Dichloroethene	458094087006	05-MAR-2008	0.5839	0.5845	25.00	25.03	ug/L	0	20	
Vinyl Acetate	458094087006	05-MAR-2008	1.4224	1.3842	25.00	24.33	ug/L	-3	30	
1,1-Dichloroethane	458094087006	05-MAR-2008	1.2220	1.2082	25.00	24.72	ug/L	-1	20	
2-Butanone	458094087006	05-MAR-2008	0.4984	0.6395	25.00	32.08	ug/L	28	30	
2,2-Dichloropropane	458094087006	05-MAR-2008	0.6039	0.7339	25.00	30.38	ug/L	**22**	20	v+ ***
cis-1,2-Dichloroethene	458094087006	05-MAR-2008	0.6878	0.6677	25.00	24.27	ug/L	-3	20	
Chloroform	458094087006	05-MAR-2008	1.0846	1.0489	25.00	24.18	ug/L	-3	20	
Bromochloromethane	458094087006	05-MAR-2008	0.3785	0.3759	25.00	24.83	ug/L	-1	20	
1,1,1-Trichloroethane	458094087006	05-MAR-2008	0.6370	0.7065	25.00	27.73	ug/L	11	20	
1,1-Dichloropropene	458094087006	05-MAR-2008	0.4269	0.4811	25.00	28.17	ug/L	13	20	
Carbon Tetrachloride	458094087006	05-MAR-2008	0.2778	0.3544	25.00	27.73	ug/L	11	20	
1,2-Dichloroethane	458094087006	05-MAR-2008	0.5129	0.5266	25.00	25.67	ug/L	3	20	
Benzene	458094087006	05-MAR-2008	1.4754	1.4390	25.00	24.38	ug/L	-2	20	
Trichloroethene	458094087006	05-MAR-2008	0.3359	0.3507	25.00	26.10	ug/L	4	20	
1,2-Dichloropropane	458094087006	05-MAR-2008	0.4472	0.4408	25.00	24.64	ug/L	-1	20	
Bromodichloromethane	458094087006	05-MAR-2008	0.4910	0.5062	25.00	25.77	ug/L	3	20	
Dibromomethane	458094087006	05-MAR-2008	0.2828	0.2819	25.00	24.91	ug/L	0	20	
4-Methyl-2-Pentanone	458094087006	05-MAR-2008	0.5736	0.5972	25.00	26.03	ug/L	4	30	
cis-1,3-Dichloropropene	458094087006	05-MAR-2008	0.6150	0.6322	25.00	25.70	ug/L	3	20	
Toluene	458094087006	05-MAR-2008	0.8106	0.8340	25.00	25.72	ug/L	3	20	
trans-1,3-Dichloropropene	458094087006	05-MAR-2008	0.5605	0.5307	25.00	23.67	ug/L	-5	20	
1,1,2-Trichloroethane	458094087006	05-MAR-2008	0.2117	0.2131	25.00	25.17	ug/L	1	20	
2-Hexanone	458094087006	05-MAR-2008	0.4796	0.5855	25.00	30.52	ug/L	22	30	
1,3-Dichloropropane	458094087006	05-MAR-2008	0.7434	0.7501	25.00	25.23	ug/L	1	20	
Tetrachloroethene	458094087006	05-MAR-2008	0.3598	0.3848	25.00	26.74	ug/L	7	20	
Dibromochloromethane	458094087006	05-MAR-2008	0.4914	0.4866	25.00	24.75	ug/L	-1	20	
1,2-Dibromoethane	458094087006	05-MAR-2008	0.4076	0.4217	25.00	25.87	ug/L	3	20	
Chlorobenzene	458094087006	05-MAR-2008	1.0689	1.0443	25.00	24.43	ug/L	-2	20	
1,1,1,2-Tetrachloroethane	458094087006	05-MAR-2008	0.3967	0.3883	25.00	24.47	ug/L	-2	20	
Ethylbenzene	458094087006	05-MAR-2008	1.6766	1.7055	25.00	25.43	ug/L	2	20	
m,p-Xylenes	458094087006	05-MAR-2008	0.6050	0.6275	50.00	51.85	ug/L	4	20	
o-Xylene	458094087006	05-MAR-2008	0.6437	0.6489	25.00	25.20	ug/L	1	20	
Styrene	458094087006	05-MAR-2008	1.1712	1.1775	25.00	25.13	ug/L	1	20	
Bromoform	458094087006	05-MAR-2008	0.3798	0.3862	25.00	25.42	ug/L	2	20	
Isopropylbenzene	458094087006	05-MAR-2008	2.6703	2.6169	25.00	24.50	ug/L	-2	20	

458092640002 ICVs

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	458094087006	05-MAR-2008	1.1690	1.2293	25.00	26.29	ug/L	5	20	
1,2,3-Trichloropropane	458094087006	05-MAR-2008	0.9774	0.9912	25.00	25.35	ug/L	1	20	
Propylbenzene	458094087006	05-MAR-2008	3.3172	3.6528	25.00	27.53	ug/L	10	20	
Bromobenzene	458094087006	05-MAR-2008	0.9474	0.9675	25.00	25.53	ug/L	2	20	
1,3,5-Trimethylbenzene	458094087006	05-MAR-2008	2.2916	2.4903	25.00	27.17	ug/L	9	20	
2-Chlorotoluene	458094087006	05-MAR-2008	2.4106	2.4916	25.00	25.84	ug/L	3	20	
4-Chlorotoluene	458094087006	05-MAR-2008	2.3183	2.3106	25.00	24.92	ug/L	0	20	
tert-Butylbenzene	458094087006	05-MAR-2008	1.8086	2.0247	25.00	27.99	ug/L	12	20	
1,2,4-Trimethylbenzene	458094087006	05-MAR-2008	2.4325	2.6105	25.00	26.83	ug/L	7	20	
sec-Butylbenzene	458094087006	05-MAR-2008	2.5369	3.0252	25.00	26.27	ug/L	5	20	
para-Isopropyl Toluene	458094087006	05-MAR-2008	2.2827	2.4241	25.00	26.55	ug/L	6	20	
1,3-Dichlorobenzene	458094087006	05-MAR-2008	1.6090	1.6031	25.00	24.91	ug/L	0	20	
1,4-Dichlorobenzene	458094087006	05-MAR-2008	1.6960	1.6767	25.00	24.72	ug/L	-1	20	
n-Butylbenzene	458094087006	05-MAR-2008	2.0107	2.3393	25.00	29.09	ug/L	16	20	
1,2-Dichlorobenzene	458094087006	05-MAR-2008	1.5836	1.6247	25.00	25.65	ug/L	3	20	
1,2-Dibromo-3-Chloropropane	458094087006	05-MAR-2008	0.2128	0.2160	25.00	25.37	ug/L	1	20	
1,2,4-Trichlorobenzene	458094087006	05-MAR-2008	0.9121	0.9328	25.00	25.57	ug/L	2	20	
Hexachlorobutadiene	458094087006	05-MAR-2008	0.2906	0.3747	25.00	28.95	ug/L	16	20	
Naphthalene	458094087006	05-MAR-2008	2.5921	2.7879	25.00	26.89	ug/L	8	20	
1,2,3-Trichlorobenzene	458094087006	05-MAR-2008	0.8702	0.9095	25.00	26.13	ug/L	5	20	

+=high bias -=low bias v=ICV

458092640002 ICVs

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 MSVOA Water: EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838094261002 Date : 05-MAR-2008 18:16 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	kc514	838094261014	0.25/0.5P	05-MAR-2008 18:16	S8294 (1000000X), S8368 (2000000X), S8151 (2000000X), S8552 (2500X)
L2	kc515	838094261015	0.5/1PPB	05-MAR-2008 18:44	S8294 (500000X), S8368 (1000000X), S8151 (1000000X), S8552 (2500X)
L3	kc516	838094261016	2PPB	05-MAR-2008 19:12	S8294 (250000X), S8368 (250000X), S8151 (500000X), S8552 (2500X)
L4	kc517	838094261017	5PPB	05-MAR-2008 19:40	S8294 (100000X), S8368 (100000X), S8151 (200000X), S8552 (2500X)
L5	kc518	838094261018	10PPB	05-MAR-2008 20:08	S8294 (50000X), S8368 (50000X), S8151 (100000X), S8552 (2500X)
L6	kc519	838094261019	20PPB	05-MAR-2008 20:38	S8294 (25000X), S8368 (25000X), S8151 (50000X), S8552 (2500X)
L7	kc520	838094261020	50PPB	05-MAR-2008 21:06	S8294 (10000X), S8368 (10000X), S8151 (20000X), S8552 (2500X)
L8	kc521	838094261021	75PPB	05-MAR-2008 21:34	S8294 (6667X), S8368 (6667X), S8151 (13330X), S8552 (2500X)
L9	kc522	838094261022	100PPB	05-MAR-2008 22:02	S8294 (5000X), S8368 (5000X), S8151 (10000X), S8552 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.4497	0.4003	0.5617	0.5040	0.5515	0.5419	0.5227	0.4993	AVRG		1.98455		0.5039	11	15	0.05	0.99	
Chloromethane		0.6920	0.6476	0.6958	0.6552	0.3801	0.6612	0.6293	0.6060	LINR	0.81352	1.59834		0.6209	0.993	15	0.10	0.99	
Vinyl Chloride	0.5172	0.5216	0.4861	0.5946	0.5387	0.5034	0.5683	0.5424	0.5207	AVRG		1.87772		0.5326	6	15	0.05	0.99	
Bromomethane		0.2832	0.2419	0.2831	0.2676	0.2456	0.3001	0.3082	0.3031	AVRG		3.58286		0.2791	9	15	0.05	0.99	
Chloroethane		0.3580	0.3428	0.3990	0.3705	0.3606	0.3886	0.3699	0.3537	AVRG		2.71824		0.3679	5	15	0.05	0.99	
Trichlorofluoromethane		0.4999	0.4519	0.6229	0.5731	0.6175	0.6297	0.6043	0.5843	AVRG		1.74529		0.5730	11	15	0.05	0.99	
Acetone			0.2605	0.2667	0.2240	0.2331m	0.2622	0.2626	0.2469	AVRG		3.98607		0.2509	7	15	0.05	0.99	
Freon 113		0.2886	0.2363	0.2963	0.3298	0.3067	0.3839	0.3788	0.4131	QUAD	0.72686	2.90836	-0.01208	0.3292	0.999	15	0.05	0.99	
1,1-Dichloroethene		0.3132m	0.2878m	0.3352	0.3326	0.3201	0.3542	0.3571	0.3681	AVRG		2.99818		0.3335	8	15	0.05	0.99	
Methylene Chloride			0.4718	0.4702	0.4504	0.4446	0.4578	0.4533	0.4456	AVRG		2.19175		0.4563	2	15	0.05	0.99	
Carbon Disulfide		1.3079	1.1035	1.2308	1.2494	1.2454	1.3658	1.3880	1.4081	AVRG		0.77679		1.2874	8	15	0.05	0.99	
MTBE		1.4530	1.2496	1.4699	1.4135	1.4590	1.5033	1.4929	1.4684	AVRG		0.69508		1.4387	6	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4889m	0.4026	0.4207	0.4069	0.4075	0.4345	0.4324	0.4345	AVRG		2.33370		0.4285	6	15	0.05	0.99	
Vinyl Acetate			0.9115m	1.1807	1.2803	1.1900	1.0718	1.1159	1.1466	AVRG		0.88645		1.1281	10	15	0.05	0.99	
1,1-Dichloroethane		0.8738	0.7975	0.8610	0.8397	0.8466	0.8735	0.8721	0.8657	AVRG		1.17134		0.8537	3	15	0.10	0.99	
2-Butanone			0.2401	0.2806m	0.2694	0.2550	0.2971	0.2954	0.2814	AVRG		3.64779		0.2741	8	15	0.05	0.99	
2,2-Dichloropropane		0.6405	0.5314	0.5808	0.5803	0.5726	0.6222	0.6173	0.6284	AVRG		1.67588		0.5967	6	15	0.05	0.99	
cis-1,2-Dichloroethene		0.4831m	0.4612m	0.5037	0.4625	0.4667	0.4803	0.4833	0.4762	AVRG		2.09590		0.4771	3	15	0.05	0.99	
Chloroform		0.8009	0.6825	0.7574	0.7360	0.7503	0.7681	0.7619	0.7530	AVRG		1.33110		0.7513	4	15	0.05	0.99	
Bromochloromethane		0.1990	0.1970	0.2255	0.2140	0.2113	0.2271	0.2270	0.2196	AVRG		4.64982		0.2151	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.6310	0.5106	0.5535	0.5580	0.5476	0.6104	0.6097	0.6307	AVRG		1.71985		0.5814	8	15	0.05	0.99	
1,1-Dichloropropene		0.3873	0.3157	0.3424	0.3520	0.3412	0.3862	0.3825	0.4021	AVRG		2.74980		0.3637	8	15	0.05	0.99	
Carbon Tetrachloride		0.2784	0.2338	0.2585	0.2699	0.2624	0.3098	0.3112	0.3355	AVRG		3.54059		0.2824	12	15	0.05	0.99	
1,2-Dichloroethane		0.3777	0.3333	0.3782	0.3735	0.3768	0.3953	0.4017	0.4026	AVRG		2.63238		0.3799	6	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.3284	1.1034	1.2272	1.1720	1.1865	1.2144	1.1989	1.1925	AVRG		0.83129		1.2029	5	15	0.05	0.99	
Trichloroethene		0.2709	0.2480	0.2746	0.2623	0.2626	0.2858	0.2813	0.2872	AVRG		3.68225		0.2716	5	15	0.05	0.99	
1,2-Dichloropropane		0.3416	0.2949	0.3367	0.3226	0.3295	0.3358	0.3326	0.3340	AVRG		3.04452		0.3285	4	15	0.05	0.99	
Bromodichloromethane		0.3379	0.3027	0.3540	0.3460	0.3626	0.3750	0.3784	0.3801	AVRG		2.82023		0.3546	7	15	0.05	0.99	
Dibromomethane		0.1486	0.1401	0.1631	0.1626	0.1594	0.1689	0.1711	0.1698	AVRG		6.23247		0.1605	7	15	0.05	0.99	
4-Methyl-2-Pentanone		0.3835	0.2889	0.3511	0.3456	0.3650	0.3818	0.3762	0.3649	AVRG		2.80015		0.3571	9	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4686	0.4244	0.5020	0.4905	0.4971	0.5201	0.5211	0.5211	AVRG		2.02799		0.4931	7	15	0.05	0.99	
Toluene		0.7639	0.6665	0.7532	0.7088	0.7144	0.7494	0.7360	0.7432	AVRG		1.37091		0.7294	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4353	0.3901	0.4664	0.4552	0.4517	0.4929	0.4969	0.4968	AVRG		2.17083		0.4607	8	15	0.05	0.99	
1,1,2-Trichloroethane		0.1381	0.1222	0.1462	0.1390	0.1432	0.1449	0.1450	0.1450	AVRG		7.11931		0.1405	6	15	0.05	0.99	
2-Hexanone			0.2716	0.2856	0.2788	0.3038	0.3159	0.3144	0.3041	AVRG		3.37490		0.2963	6	15	0.05	0.99	
1,3-Dichloropropane		0.5996	0.5107	0.5980	0.5844	0.6100	0.6082	0.6046	0.6026	AVRG		1.69562		0.5898	6	15	0.05	0.99	
Tetrachloroethene		0.3025	0.2770	0.3007	0.2962	0.2939	0.3310	0.3205	0.3403	AVRG		3.24929		0.3078	7	15	0.05	0.99	
Dibromochloromethane		0.2619	0.2303	0.2854	0.2832	0.3052	0.3212	0.3259	0.3314	AVRG		3.41221		0.2931	12	15	0.05	0.99	
1,2-Dibromoethane		0.2603	0.2182	0.2646	0.2575	0.2613	0.2746	0.2750	0.2739	AVRG		3.83618		0.2607	7	15	0.05	0.99	
Chlorobenzene		0.9750	0.8725	0.9786	0.9144	0.9392	0.9586	0.9435	0.9515	AVRG		1.06198		0.9416	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2887	0.2729	0.3116	0.3000	0.3182	0.3222	0.3247	0.3284	AVRG		3.24305		0.3084	6	15	0.05	0.99	
Ethylbenzene		1.6934	1.4855	1.6432	1.5426	1.5733	1.6668	1.6151	1.6444	AVRG		0.62187		1.6080	4	15	0.05	0.99	
m,p-Xylenes	0.8043	0.6571	0.5794	0.6398	0.6011	0.6045	0.6536	0.6338	0.6457	AVRG		1.54654		0.6466	10	15	0.05	0.99	
o-Xylene		0.6430	0.5672	0.6454	0.5991	0.6076	0.6474	0.6338	0.6379	AVRG		1.60598		0.6227	5	15	0.05	0.99	
Styrene		1.0265	0.9433	1.0880	1.0426	1.0455	1.1238	1.1046	1.1001	AVRG		0.94403		1.0593	5	15	0.05	0.99	
Bromoform		0.1551	0.1459	0.1810	0.1855	0.2014	0.2245	0.2299	0.2330	QUAD	0.93176	4.55656	-0.01363	0.1945	1.000	15	0.10	0.99	
Isopropylbenzene		3.3037	2.7909	3.1059	2.9677	3.1588	3.2613	3.1414	3.2617	AVRG		0.32011		3.1239	6	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.8024	0.6994	0.8442	0.8205	0.9157	0.8271	0.8291	0.8182	AVRG		1.22015		0.8196	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9177	0.7130	0.8508	0.8218	0.9259	0.8656	0.8573	0.8433	AVRG		1.17726		0.8494	8	15	0.05	0.99	
Propylbenzene		4.0172	3.4303	3.7860	3.6255	3.6532	3.9842	3.8046	3.9160	AVRG		0.26475		3.7771	5	15	0.05	0.99	
Bromobenzene		0.8168	0.7534	0.8265	0.8044	0.8727	0.8267	0.8150	0.8045	AVRG		1.22701		0.8150	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.7146	2.3347	2.5756	2.4558	2.3685	2.6921	2.5914	2.6377	AVRG		0.39273		2.5463	6	15	0.05	0.99	
2-Chlorotoluene		2.7018	2.4585	2.7101	2.5617	2.7265	2.7210	2.6376	2.6363	AVRG		0.37819		2.6442	4	15	0.05	0.99	
4-Chlorotoluene		2.5184	2.2661	2.5811	2.3825	2.5087	2.5244	2.4765	2.4930	AVRG		0.40505		2.4689	4	15	0.05	0.99	
tert-Butylbenzene		2.3976	1.9413	2.1485	2.0521	2.0410	2.3300	2.2427	2.3401	AVRG		0.45732		2.1867	8	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.7410	2.2645	2.5312	2.3998	2.1871	2.6283	2.5548	2.6180	AVRG		0.40151		2.4906	8	15	0.05	0.99	
sec-Butylbenzene		3.4192	2.7974	3.0947	3.0759	2.9495	3.5010	3.3275	3.5348	AVRG		0.31128		3.2125	8	15	0.05	0.99	
para-Isopropyl Toluene		2.8113	2.3278	2.5562	2.4761	2.2964	2.8430	2.7261	2.8884	AVRG		0.38231		2.6157	9	15	0.05	0.99	
1,3-Dichlorobenzene		1.5819	1.4258	1.5870	1.4811	1.5363	1.5514	1.5342	1.5463	AVRG		0.65338		1.5305	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.6806	1.4399	1.6505	1.5447	1.5577	1.6028	1.5679	1.5766	AVRG		0.63388		1.5776	5	15	0.05	0.99	
n-Butylbenzene		2.5261	2.0209	2.2463	2.2363	1.8884	2.5604	2.4569	2.6189	AVRG		0.43117		2.3193	11	15	0.05	0.99	
1,2-Dichlorobenzene		1.4763	1.3151	1.5325	1.4342	1.4986	1.4815	1.4671	1.4773	AVRG		0.68479		1.4603	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1371m	0.1665	0.1596m	0.1493	0.1570	0.1603	0.1617	0.1584	AVRG		6.40122		0.1562	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8601	0.7410	0.8960	0.8315	0.6811	0.9084	0.9004	0.9131	AVRG		1.18842		0.8415	10	15	0.05	0.99	
Hexachlorobutadiene		0.4052	0.3512	0.3680	0.3778	0.3541	0.4521	0.4314	0.4692	AVRG		2.49295		0.4011	11	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.7874	1.4431	1.8950	1.8635	1.4571	2.0816	2.0851	2.0441	AVRG		0.54582		1.8321	14	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.8311	0.6821	0.8110	0.7835	0.6478	0.8526	0.8486	0.8495	AVRG		1.26860		0.7883	10	15	0.05	0.99	
Dibromofluoromethane							0.4469			AVRG		2.23779		0.4469	0	15	0.05	0.99	
1,2-Dichloroethane-d4							0.3648			AVRG		2.74152		0.3648	0	15	0.05	0.99	
Toluene-d8							1.1453			AVRG		0.87315		1.1453	0	15	0.05	0.99	
Bromofluorobenzene							1.0796			AVRG		0.92628		1.0796	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	-11	2.000	-21	5.000	11	10.00	0	20.00	9	50.00	8	75.00	4	100.0	-1
Chloromethane			1.000	92	2.000	44	5.000	27	10.00	13	20.00	-35	50.00	7	75.00	2	100.0	-2
Vinyl Chloride	0.500	-3	1.000	-2	2.000	-9	5.000	12	10.00	1	20.00	-5	50.00	7	75.00	2	100.0	-2
Bromomethane			1.000	1	2.000	-13	5.000	1	10.00	-4	20.00	-12	50.00	8	75.00	10	100.0	9
Chloroethane			1.000	-3	2.000	-7	5.000	8	10.00	1	20.00	-2	50.00	6	75.00	1	100.0	-4
Trichlorofluoromethane			1.000	-13	2.000	-21	5.000	9	10.00	0	20.00	8	50.00	10	75.00	5	100.0	2
Acetone					2.000	4	5.000	6	10.00	-11	20.00	-7	50.00	5	75.00	5	100.0	-2
Freon 113			0.500	129	2.000	5	5.000	0	10.00	2	20.00	-9	50.00	4	75.00	-2	100.0	0
1,1-Dichloroethene			0.500	-6	2.000	-14	5.000	0	10.00	0	20.00	-4	50.00	6	75.00	7	100.0	10
Methylene Chloride					2.000	3	5.000	3	10.00	-1	20.00	-3	50.00	0	75.00	-1	100.0	-2
Carbon Disulfide			0.500	2	2.000	-14	5.000	-4	10.00	-3	20.00	-3	50.00	6	75.00	8	100.0	9
MTBE			0.500	1	2.000	-13	5.000	2	10.00	-2	20.00	1	50.00	4	75.00	4	100.0	2
trans-1,2-Dichloroethene			0.500	14	2.000	-6	5.000	-2	10.00	-5	20.00	-5	50.00	1	75.00	1	100.0	1
Vinyl Acetate					2.000	-19	5.000	5	10.00	13	20.00	5	50.00	-5	75.00	-1	100.0	2
1,1-Dichloroethane			0.500	2	2.000	-7	5.000	1	10.00	-2	20.00	-1	50.00	2	75.00	2	100.0	1
2-Butanone					2.000	-12	5.000	2	10.00	-2	20.00	-7	50.00	8	75.00	8	100.0	3
2,2-Dichloropropane			0.500	7	2.000	-11	5.000	-3	10.00	-3	20.00	-4	50.00	4	75.00	3	100.0	5
cis-1,2-Dichloroethene			0.500	1	2.000	-3	5.000	6	10.00	-3	20.00	-2	50.00	1	75.00	1	100.0	0
Chloroform			0.500	7	2.000	-9	5.000	1	10.00	-2	20.00	0	50.00	2	75.00	1	100.0	0
Bromochloromethane			0.500	-7	2.000	-8	5.000	5	10.00	0	20.00	-2	50.00	6	75.00	6	100.0	2
1,1,1-Trichloroethane			0.500	9	2.000	-12	5.000	-5	10.00	-4	20.00	-6	50.00	5	75.00	5	100.0	8
1,1-Dichloropropene			0.500	6	2.000	-13	5.000	-6	10.00	-3	20.00	-6	50.00	6	75.00	5	100.0	11
Carbon Tetrachloride			0.500	-1	2.000	-17	5.000	-8	10.00	-4	20.00	-7	50.00	10	75.00	10	100.0	19
1,2-Dichloroethane			0.500	-1	2.000	-12	5.000	0	10.00	-2	20.00	-1	50.00	4	75.00	6	100.0	6
Benzene			0.500	10	2.000	-8	5.000	2	10.00	-3	20.00	-1	50.00	1	75.00	0	100.0	-1
Trichloroethene			0.500	0	2.000	-9	5.000	1	10.00	-3	20.00	-3	50.00	5	75.00	4	100.0	6
1,2-Dichloropropane			0.500	4	2.000	-10	5.000	2	10.00	-2	20.00	0	50.00	2	75.00	1	100.0	2
Bromodichloromethane			0.500	-5	2.000	-15	5.000	0	10.00	-2	20.00	2	50.00	6	75.00	7	100.0	7
Dibromomethane			0.500	-7	2.000	-13	5.000	2	10.00	1	20.00	-1	50.00	5	75.00	7	100.0	6
4-Methyl-2-Pentanone			0.500	7	2.000	-19	5.000	-2	10.00	-3	20.00	2	50.00	7	75.00	5	100.0	2
cis-1,3-Dichloropropene			0.500	-5	2.000	-14	5.000	2	10.00	-1	20.00	1	50.00	5	75.00	6	100.0	6
Toluene			0.500	5	2.000	-9	5.000	3	10.00	-3	20.00	-2	50.00	3	75.00	1	100.0	2
trans-1,3-Dichloropropene			0.500	-6	2.000	-15	5.000	1	10.00	-1	20.00	-2	50.00	7	75.00	8	100.0	8
1,1,2-Trichloroethane			0.500	-2	2.000	-13	5.000	4	10.00	-1	20.00	2	50.00	3	75.00	3	100.0	3
2-Hexanone					2.000	-8	5.000	-4	10.00	-6	20.00	3	50.00	7	75.00	6	100.0	3
1,3-Dichloropropane			0.500	2	2.000	-13	5.000	1	10.00	-1	20.00	3	50.00	3	75.00	3	100.0	2
Tetrachloroethene			0.500	-2	2.000	-10	5.000	-2	10.00	-4	20.00	-4	50.00	8	75.00	4	100.0	11
Dibromochloromethane			0.500	-11	2.000	-21	5.000	-3	10.00	-3	20.00	4	50.00	10	75.00	11	100.0	13
1,2-Dibromoethane			0.500	0	2.000	-16	5.000	1	10.00	-1	20.00	0	50.00	5	75.00	6	100.0	5
Chlorobenzene			0.500	4	2.000	-7	5.000	4	10.00	-3	20.00	0	50.00	2	75.00	0	100.0	1
1,1,1,2-Tetrachloroethane			0.500	-6	2.000	-12	5.000	1	10.00	-3	20.00	3	50.00	5	75.00	5	100.0	7
Ethylbenzene			0.500	5	2.000	-8	5.000	2	10.00	-4	20.00	-2	50.00	4	75.00	0	100.0	2

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	24	1.000	2	4.000	-10	10.00	-1	20.00	-7	40.00	-7	100.0	1	150.0	-2	200.0	0
o-Xylene			0.500	3	2.000	-9	5.000	4	10.00	-4	20.00	-2	50.00	4	75.00	2	100.0	2
Styrene			0.500	-3	2.000	-11	5.000	3	10.00	-2	20.00	-1	50.00	6	75.00	4	100.0	4
Bromoform			0.500	157	2.000	13	5.000	1	10.00	-7	20.00	-5	50.00	1	75.00	1	100.0	0
Isopropylbenzene			0.500	6	2.000	-11	5.000	-1	10.00	-5	20.00	1	50.00	4	75.00	1	100.0	4
1,1,2,2-Tetrachloroethane			0.500	-2	2.000	-15	5.000	3	10.00	0	20.00	12	50.00	1	75.00	1	100.0	0
1,2,3-Trichloropropane			0.500	8	2.000	-16	5.000	0	10.00	-3	20.00	9	50.00	2	75.00	1	100.0	-1
Propylbenzene			0.500	6	2.000	-9	5.000	0	10.00	-4	20.00	-3	50.00	5	75.00	1	100.0	4
Bromobenzene			0.500	0	2.000	-8	5.000	1	10.00	-1	20.00	7	50.00	1	75.00	0	100.0	-1
1,3,5-Trimethylbenzene			0.500	7	2.000	-8	5.000	1	10.00	-4	20.00	-7	50.00	6	75.00	2	100.0	4
2-Chlorotoluene			0.500	2	2.000	-7	5.000	2	10.00	-3	20.00	3	50.00	3	75.00	0	100.0	0
4-Chlorotoluene			0.500	2	2.000	-8	5.000	5	10.00	-3	20.00	2	50.00	2	75.00	0	100.0	1
tert-Butylbenzene			0.500	10	2.000	-11	5.000	-2	10.00	-6	20.00	-7	50.00	7	75.00	3	100.0	7
1,2,4-Trimethylbenzene			0.500	10	2.000	-9	5.000	2	10.00	-4	20.00	-12	50.00	6	75.00	3	100.0	5
sec-Butylbenzene			0.500	6	2.000	-13	5.000	-4	10.00	-4	20.00	-8	50.00	9	75.00	4	100.0	10
para-Isopropyl Toluene			0.500	7	2.000	-11	5.000	-2	10.00	-5	20.00	-12	50.00	9	75.00	4	100.0	10
1,3-Dichlorobenzene			0.500	3	2.000	-7	5.000	4	10.00	-3	20.00	0	50.00	1	75.00	0	100.0	1
1,4-Dichlorobenzene			0.500	7	2.000	-9	5.000	5	10.00	-2	20.00	-1	50.00	2	75.00	-1	100.0	0
n-Butylbenzene			0.500	9	2.000	-13	5.000	-3	10.00	-4	20.00	-19	50.00	10	75.00	6	100.0	13
1,2-Dichlorobenzene			0.500	1	2.000	-10	5.000	5	10.00	-2	20.00	3	50.00	1	75.00	0	100.0	1
1,2-Dibromo-3-Chloropropane			0.500	-12	2.000	7	5.000	2	10.00	-4	20.00	0	50.00	3	75.00	3	100.0	1
1,2,4-Trichlorobenzene			0.500	2	2.000	-12	5.000	6	10.00	-1	20.00	-19	50.00	8	75.00	7	100.0	9
Hexachlorobutadiene			0.500	1	2.000	-12	5.000	-8	10.00	-6	20.00	-12	50.00	13	75.00	8	100.0	17
Naphthalene			0.500	-2	2.000	-21	5.000	3	10.00	2	20.00	-20	50.00	14	75.00	14	100.0	12
1,2,3-Trichlorobenzene			0.500	5	2.000	-13	5.000	3	10.00	-1	20.00	-18	50.00	8	75.00	8	100.0	8
Dibromofluoromethane													50.00	0				
1,2-Dichloroethane-d4													50.00	0				
Toluene-d8													50.00	0				
Bromofluorobenzene													50.00	0				

Analyst: ACM Date: 03/06/08 Reviewer: LW Date: 03/06/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

838094261002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201749 MSVOA Water
EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838094261002 Cal Date : 05-MAR-2008 Type : WATER

ICV 838094261023 (kc523 05-MAR-2008) stds: S8534 (10000X), S8552 (2500X)
ICV 838094261024 (kc524 05-MAR-2008) stds: S8260 (10000X), S8538 (10000X), S8552 (2500X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	838094261023	0.5039	0.3766	25.00	18.68	ug/L	**-25**	20	v- ***
Chloromethane	838094261023	0.6209	0.5473	25.00	22.68	ug/L	-9	20	
Vinyl Chloride	838094261023	0.5326	0.4756	25.00	22.33	ug/L	-11	20	
Bromomethane	838094261023	0.2791	0.2653	25.00	23.76	ug/L	-5	20	
Chloroethane	838094261023	0.3679	0.3429	25.00	23.30	ug/L	-7	20	
Trichlorofluoromethane	838094261023	0.5730	0.5797	25.00	25.29	ug/L	1	20	
Acetone	838094261024	0.2509	0.2972	25.00	29.62	ug/L	18	30	
Freon 113	838094261024	0.3292	0.2943	25.00	21.47	ug/L	-14	20	
1,1-Dichloroethene	838094261024	0.3335	0.3448	25.00	25.85	ug/L	3	20	
Methylene Chloride	838094261024	0.4563	0.4637	25.00	25.41	ug/L	2	20	
Carbon Disulfide	838094261024	1.2874	1.0747	25.00	20.87	ug/L	-17	20	
MTBE	838094261024	1.4387	1.4665	25.00	25.48	ug/L	2	20	
trans-1,2-Dichloroethene	838094261024	0.4285	0.4195	25.00	24.48	ug/L	-2	20	
Vinyl Acetate	838094261024	1.1281	0.9122	25.00	20.21	ug/L	-19	30	
1,1-Dichloroethane	838094261024	0.8537	0.8533	25.00	24.99	ug/L	0	20	
2-Butanone	838094261024	0.2741	0.3156	25.00	28.78	ug/L	15	30	
2,2-Dichloropropane	838094261024	0.5967	0.5682	25.00	23.81	ug/L	-5	20	
cis-1,2-Dichloroethene	838094261024	0.4771	0.4857	25.00	25.45	ug/L	2	20	
Chloroform	838094261024	0.7513	0.7469	25.00	24.86	ug/L	-1	20	
Bromochloromethane	838094261024	0.2151	0.2164	25.00	25.15	ug/L	1	20	
1,1,1-Trichloroethane	838094261024	0.5814	0.5753	25.00	24.74	ug/L	-1	20	
1,1-Dichloropropene	838094261024	0.3637	0.3642	25.00	25.04	ug/L	0	20	
Carbon Tetrachloride	838094261024	0.2824	0.2900	25.00	25.67	ug/L	3	20	
1,2-Dichloroethane	838094261024	0.3799	0.3953	25.00	26.01	ug/L	4	20	
Benzene	838094261024	1.2029	1.1963	25.00	24.86	ug/L	-1	20	
Trichloroethene	838094261024	0.2716	0.2722	25.00	25.06	ug/L	0	20	
1,2-Dichloropropane	838094261024	0.3285	0.3280	25.00	24.96	ug/L	0	20	
Bromodichloromethane	838094261024	0.3546	0.3722	25.00	26.25	ug/L	5	20	
Dibromomethane	838094261024	0.1605	0.1660	25.00	25.86	ug/L	3	20	
4-Methyl-2-Pentanone	838094261024	0.3571	0.3691	25.00	25.84	ug/L	3	30	
cis-1,3-Dichloropropene	838094261024	0.4931	0.5051	25.00	25.61	ug/L	2	20	
Toluene	838094261024	0.7294	0.7219	25.00	24.74	ug/L	-1	20	
trans-1,3-Dichloropropene	838094261024	0.4607	0.4296	25.00	23.32	ug/L	-7	20	
1,1,2-Trichloroethane	838094261024	0.1405	0.1434	25.00	25.52	ug/L	2	20	
2-Hexanone	838094261024	0.2963	0.3266	25.00	27.56	ug/L	10	30	
1,3-Dichloropropane	838094261024	0.5898	0.6031	25.00	25.57	ug/L	2	20	
Tetrachloroethene	838094261024	0.3078	0.3088	25.00	25.08	ug/L	0	20	
Dibromochloromethane	838094261024	0.2931	0.3052	25.00	26.04	ug/L	4	20	
1,2-Dibromoethane	838094261024	0.2607	0.2660	25.00	25.51	ug/L	2	20	
Chlorobenzene	838094261024	0.9416	0.9156	25.00	24.31	ug/L	-3	20	
1,1,1,2-Tetrachloroethane	838094261024	0.3084	0.3135	25.00	25.42	ug/L	2	20	
Ethylbenzene	838094261024	1.6080	1.6089	25.00	25.01	ug/L	0	20	
m,p-Xylenes	838094261024	0.6466	0.6225	50.00	48.13	ug/L	-4	20	
o-Xylene	838094261024	0.6227	0.6143	25.00	24.66	ug/L	-1	20	
Styrene	838094261024	1.0593	1.0752	25.00	25.38	ug/L	2	20	
Bromoform	838094261024	0.1945	0.2070	25.00	24.15	ug/L	-3	20	
Isopropylbenzene	838094261024	3.1239	2.7606	25.00	22.09	ug/L	-12	20	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	838094261024	0.8196	0.8345	25.00	25.45	ug/L	2	20	
1,2,3-Trichloropropane	838094261024	0.8494	0.8513	25.00	25.06	ug/L	0	20	
Propylbenzene	838094261024	3.7771	3.7495	25.00	24.82	ug/L	-1	20	
Bromobenzene	838094261024	0.8150	0.8206	25.00	25.17	ug/L	1	20	
1,3,5-Trimethylbenzene	838094261024	2.5463	2.5793	25.00	25.32	ug/L	1	20	
2-Chlorotoluene	838094261024	2.6442	2.6332	25.00	24.90	ug/L	0	20	
4-Chlorotoluene	838094261024	2.4689	2.4122	25.00	24.43	ug/L	-2	20	
tert-Butylbenzene	838094261024	2.1867	2.2001	25.00	25.15	ug/L	1	20	
1,2,4-Trimethylbenzene	838094261024	2.4906	2.5759	25.00	25.86	ug/L	3	20	
sec-Butylbenzene	838094261024	3.2125	3.2736	25.00	25.48	ug/L	2	20	
para-Isopropyl Toluene	838094261024	2.6157	2.5736	25.00	24.60	ug/L	-2	20	
1,3-Dichlorobenzene	838094261024	1.5305	1.4818	25.00	24.21	ug/L	-3	20	
1,4-Dichlorobenzene	838094261024	1.5776	1.5127	25.00	23.97	ug/L	-4	20	
n-Butylbenzene	838094261024	2.3193	2.3863	25.00	25.72	ug/L	3	20	
1,2-Dichlorobenzene	838094261024	1.4603	1.4411	25.00	24.67	ug/L	-1	20	
1,2-Dibromo-3-Chloropropane	838094261024	0.1562	0.1532	25.00	24.51	ug/L	-2	20	
1,2,4-Trichlorobenzene	838094261024	0.8415	0.8539	25.00	25.37	ug/L	1	20	
Hexachlorobutadiene	838094261024	0.4011	0.4359	25.00	27.17	ug/L	9	20	
Naphthalene	838094261024	1.8321	1.9418	25.00	26.50	ug/L	6	20	
1,2,3-Trichlorobenzene	838094261024	0.7883	0.8115	25.00	25.74	ug/L	3	20	

-=low bias v=ICV

838094261002 ICVs

CURTIS & TOMPKINS SPIKE USER REPORT FOR 201749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC432667 IDF : 1.0
Seqnum : 458105593007.3 File : fcd07 Time : 13-MAR-2008 10:37
Cal : 458092640002 Caldate : 04-MAR-2008 Caltype : WATER
Standards: S8648 (12500X), S8534 (12500X), S8538 (12500X), S8559 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.9236	0.5535	20.00	11.99	ug/L	**-40**	20	0.0500	c- u v- ***
Chloromethane	1.3150	0.9713	20.00	14.77	ug/L	**-26**	20	0.1000	c- u ***
Vinyl Chloride	0.9121	0.7501	20.00	16.45	ug/L	-18	20	0.0500	u
Bromomethane	0.4609	0.3566	20.00	15.47	ug/L	**-23**	20	0.0500	c- u ***
Chloroethane	0.4581	0.4440	20.00	19.38	ug/L	-3	20	0.0500	u
Trichlorofluoromethane	0.7020	0.6436	20.00	18.34	ug/L	-8	20	0.0500	u
Acetone	0.4194	0.4338	20.00	20.69	ug/L	3	30	0.0500	u v+ ***
Freon 113	0.4138	0.5085	20.00	20.16	ug/L	1	20	0.0500	u
1,1-Dichloroethene	0.4694	0.5127	20.00	21.85	ug/L	9	20	0.0500	u
Methylene Chloride	0.7823	0.8704	20.00	22.25	ug/L	11	20	0.0500	u
Carbon Disulfide	1.9806	2.0291	20.00	20.49	ug/L	2	20	0.0500	u
MTBE	1.8614	1.7342	20.00	18.63	ug/L	-7	20	0.0500	u
trans-1,2-Dichloroethene	0.5839	0.6317	20.00	21.64	ug/L	8	20	0.0500	u
Vinyl Acetate	1.4224	1.4049	20.00	19.75	ug/L	-1	30	0.0500	u
1,1-Dichloroethane	1.2220	1.3026	20.00	21.32	ug/L	7	20	0.1000	u
2-Butanone	0.4984	0.4966	20.00	19.93	ug/L	0	30	0.0500	u
cis-1,2-Dichloroethene	0.6878	0.7158	20.00	20.81	ug/L	4	20	0.0500	u
2,2-Dichloropropane	0.6039	0.7275	20.00	24.09	ug/L	20	20	0.0500	u v+ ***
Chloroform	1.0846	1.1207	20.00	20.66	ug/L	3	20	0.0500	u
Bromochloromethane	0.3785	0.4080	20.00	21.56	ug/L	8	20	0.0500	u
1,1,1-Trichloroethane	0.6370	0.7080	20.00	22.23	ug/L	11	20	0.0500	u
1,1-Dichloropropene	0.4269	0.4699	20.00	22.01	ug/L	10	20	0.0500	u
Carbon Tetrachloride	0.2778	0.3618	20.00	23.09	ug/L	15	20	0.0500	u
1,2-Dichloroethane	0.5129	0.5458	20.00	21.29	ug/L	6	20	0.0500	u
Benzene	1.4754	1.5264	20.00	20.69	ug/L	3	20	0.0500	u
Trichloroethene	0.3359	0.3588	20.00	21.36	ug/L	7	20	0.0500	u
1,2-Dichloropropane	0.4472	0.4540	20.00	20.30	ug/L	2	20	0.0500	u
Bromodichloromethane	0.4910	0.5241	20.00	21.34	ug/L	7	20	0.0500	u
Dibromomethane	0.2828	0.2946	20.00	20.83	ug/L	4	20	0.0500	u
4-Methyl-2-Pentanone	0.5736	0.5208	20.00	18.16	ug/L	-9	30	0.0500	u
cis-1,3-Dichloropropene	0.6150	0.6550	20.00	21.30	ug/L	7	20	0.0500	u
Toluene	0.8106	0.8787	20.00	21.68	ug/L	8	20	0.0500	u
trans-1,3-Dichloropropene	0.5605	0.5354	20.00	19.11	ug/L	-4	20	0.0500	u
1,1,2-Trichloroethane	0.2117	0.2141	20.00	20.23	ug/L	1	20	0.0500	u
2-Hexanone	0.4796	0.4428	20.00	18.46	ug/L	-8	30	0.0500	u
1,3-Dichloropropane	0.7434	0.7669	20.00	20.63	ug/L	3	20	0.0500	u
Tetrachloroethene	0.3598	0.3948	20.00	21.95	ug/L	10	20	0.0500	u
Dibromochloromethane	0.4914	0.5130	20.00	20.88	ug/L	4	20	0.0500	u
1,2-Dibromoethane	0.4076	0.4303	20.00	21.12	ug/L	6	20	0.0500	u
Chlorobenzene	1.0689	1.1256	20.00	21.06	ug/L	5	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.3967	0.4172	20.00	21.03	ug/L	5	20	0.0500	u
Ethylbenzene	1.6766	1.8132	20.00	21.63	ug/L	8	20	0.0500	u
m,p-Xylenes	0.6050	0.7153	40.00	47.29	ug/L	18	20	0.0500	u
o-Xylene	0.6437	0.6892	20.00	21.41	ug/L	7	20	0.0500	u
Styrene	1.1712	1.2658	20.00	21.61	ug/L	8	20	0.0500	u
Bromoform	0.3798	0.3945	20.00	20.77	ug/L	4	20	0.1000	u
Isopropylbenzene	2.6703	2.4833	20.00	18.60	ug/L	-7	20	0.0500	u
1,1,2,2-Tetrachloroethane	1.1690	1.2195	20.00	20.87	ug/L	4	20	0.3000	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9774	0.9841	20.00	20.14	ug/L	1	20	0.0500	u
Propylbenzene	3.3172	3.6087	20.00	21.76	ug/L	9	20	0.0500	u
Bromobenzene	0.9474	0.9685	20.00	20.44	ug/L	2	20	0.0500	u
1,3,5-Trimethylbenzene	2.2916	2.5529	20.00	22.28	ug/L	11	20	0.0500	u
2-Chlorotoluene	2.4106	2.4848	20.00	20.62	ug/L	3	20	0.0500	u
4-Chlorotoluene	2.3183	2.3975	20.00	20.68	ug/L	3	20	0.0500	u
tert-Butylbenzene	1.8086	2.0021	20.00	22.14	ug/L	11	20	0.0500	u
1,2,4-Trimethylbenzene	2.4325	2.7753	20.00	22.82	ug/L	14	20	0.0500	u
sec-Butylbenzene	2.5369	3.1929	20.00	22.24	ug/L	11	20	0.0500	u
para-Isopropyl Toluene	2.2827	2.6116	20.00	22.88	ug/L	14	20	0.0500	u
1,3-Dichlorobenzene	1.6090	1.6414	20.00	20.40	ug/L	2	20	0.0500	u
1,4-Dichlorobenzene	1.6960	1.7236	20.00	20.33	ug/L	2	20	0.0500	u
n-Butylbenzene	2.0107	2.4965	20.00	24.83	ug/L	**24**	20	0.0500	c+ u ***
1,2-Dichlorobenzene	1.5836	1.6656	20.00	21.04	ug/L	5	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.2128	0.2042	20.00	19.19	ug/L	-4	20	0.0500	u
1,2,4-Trichlorobenzene	0.9121	0.9827	20.00	21.55	ug/L	8	20	0.0500	u
Hexachlorobutadiene	0.2906	0.4298	20.00	26.66	ug/L	**33**	20	0.0500	c+ u ***
Naphthalene	2.5921	2.7170	20.00	20.96	ug/L	5	20	0.0500	u
1,2,3-Trichlorobenzene	0.8702	0.9242	20.00	21.24	ug/L	6	20	0.0500	u
Dibromofluoromethane	0.5866	0.6026	50.00	51.36	ug/L	3	20	0.0500	u
1,2-Dichloroethane-d4	0.3696	0.3878	50.00	52.46	ug/L	5	20	0.0500	u
Toluene-d8	1.0162	0.9266	50.00	45.59	ug/L	-9	20	0.0500	u
Bromofluorobenzene	0.9204	0.9332	50.00	50.69	ug/L	1	20	0.0500	u

ISTD (ICAL fc425)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	908555	896745	-1.30	11.86	11.86	0.00
1,4-Difluorobenzene	1482658	1473278	-0.63	13.18	13.17	-0.01
Chlorobenzene-d5	1248754	1275452	2.14	17.92	17.91	-0.01
1,4-Dichlorobenzene-d4	684181	722858	5.65	20.76	20.76	0.00

Analyst: BO Date: 03/14/08 Reviewer: LW Date: 03/14/08

+=high bias -=low bias c=CCV u=use v=ICV

458105593007.3

CURTIS & TOMPKINS SPIKE USER REPORT FOR 201749 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : QC432201 IDF : 1.0
Seqnum : 838102705006.9 File : kcb06 Time : 11-MAR-2008 10:33
Cal : 838094261002 Caldate : 05-MAR-2008 Caltype : WATER
Standards: S8260 (8333X), S8534 (8333X), S8538 (8333X), S8552 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5039	0.3399	30.00	20.24	ug/L	**-33**	20	0.0500	c- u v- ***
Chloromethane	0.6209	0.6517	30.00	32.06	ug/L	7	20	0.1000	u
Vinyl Chloride	0.5326	0.6373	30.00	35.90	ug/L	20	20	0.0500	u
Bromomethane	0.2791	0.3040	30.00	32.67	ug/L	9	20	0.0500	u
Chloroethane	0.3679	0.3850	30.00	31.40	ug/L	5	20	0.0500	u
Trichlorofluoromethane	0.5730	0.6341	30.00	33.20	ug/L	11	20	0.0500	u
Acetone	0.2509	0.3533	30.00	42.25	ug/L	**41**	30	0.0500	c+ u ***
Freon 113	0.3292	0.3348	30.00	28.72	ug/L	-4	20	0.0500	u
1,1-Dichloroethene	0.3335	0.3482	30.00	31.32	ug/L	4	20	0.0500	u
Methylene Chloride	0.4563	0.4730	30.00	31.10	ug/L	4	20	0.0500	u
Carbon Disulfide	1.2874	1.0505	30.00	24.48	ug/L	-18	20	0.0500	u
MTBE	1.4387	1.5319	30.00	31.94	ug/L	6	20	0.0500	u
trans-1,2-Dichloroethene	0.4285	0.4342	30.00	30.40	ug/L	1	20	0.0500	u
Vinyl Acetate	1.1281	1.0256	30.00	27.28	ug/L	-9	30	0.0500	u
1,1-Dichloroethane	0.8537	0.9014	30.00	31.67	ug/L	6	20	0.1000	u
2-Butanone	0.2741	0.3486	30.00	38.14	ug/L	27	30	0.0500	u
cis-1,2-Dichloroethene	0.4771	0.4951	30.00	31.13	ug/L	4	20	0.0500	u
2,2-Dichloropropane	0.5967	0.7113	30.00	35.76	ug/L	19	20	0.0500	u
Chloroform	0.7513	0.8087	30.00	32.29	ug/L	8	20	0.0500	u
Bromochloromethane	0.2151	0.2296	30.00	32.03	ug/L	7	20	0.0500	u
1,1,1-Trichloroethane	0.5814	0.6407	30.00	33.06	ug/L	10	20	0.0500	u
1,1-Dichloropropene	0.3637	0.3828	30.00	31.58	ug/L	5	20	0.0500	u
Carbon Tetrachloride	0.2824	0.3199	30.00	33.98	ug/L	13	20	0.0500	u
1,2-Dichloroethane	0.3799	0.4140	30.00	32.69	ug/L	9	20	0.0500	u
Benzene	1.2029	1.1977	30.00	29.87	ug/L	0	20	0.0500	u
Trichloroethene	0.2716	0.2701	30.00	29.84	ug/L	-1	20	0.0500	u
1,2-Dichloropropane	0.3285	0.3245	30.00	29.64	ug/L	-1	20	0.0500	u
Bromodichloromethane	0.3546	0.3752	30.00	31.74	ug/L	6	20	0.0500	u
Dibromomethane	0.1605	0.1647	30.00	30.80	ug/L	3	20	0.0500	u
4-Methyl-2-Pentanone	0.3571	0.3704	30.00	31.11	ug/L	4	30	0.0500	u
cis-1,3-Dichloropropene	0.4931	0.5060	30.00	30.79	ug/L	3	20	0.0500	u
Toluene	0.7294	0.7188	30.00	29.56	ug/L	-1	20	0.0500	u
trans-1,3-Dichloropropene	0.4607	0.4410	30.00	28.72	ug/L	-4	20	0.0500	u
1,1,2-Trichloroethane	0.1405	0.1422	30.00	30.36	ug/L	1	20	0.0500	u
2-Hexanone	0.2963	0.3397	30.00	34.39	ug/L	15	30	0.0500	u
1,3-Dichloropropane	0.5898	0.5827	30.00	29.64	ug/L	-1	20	0.0500	u
Tetrachloroethene	0.3078	0.2936	30.00	28.62	ug/L	-5	20	0.0500	u
Dibromochloromethane	0.2931	0.2992	30.00	30.63	ug/L	2	20	0.0500	u
1,2-Dibromoethane	0.2607	0.2563	30.00	29.50	ug/L	-2	20	0.0500	u
Chlorobenzene	0.9416	0.8671	30.00	27.63	ug/L	-8	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.3084	0.3007	30.00	29.26	ug/L	-2	20	0.0500	u
Ethylbenzene	1.6080	1.5668	30.00	29.23	ug/L	-3	20	0.0500	u
m,p-Xylenes	0.6466	0.6078	60.00	56.40	ug/L	-6	20	0.0500	u
o-Xylene	0.6227	0.5825	30.00	28.06	ug/L	-6	20	0.0500	u
Styrene	1.0593	1.0059	30.00	28.49	ug/L	-5	20	0.0500	u
Bromoform	0.1945	0.1934	30.00	26.90	ug/L	-10	20	0.1000	u
Isopropylbenzene	3.1239	2.6673	30.00	25.61	ug/L	-15	20	0.0500	u
1,1,2,2-Tetrachloroethane	0.8196	0.7976	30.00	29.19	ug/L	-3	20	0.3000	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.8494	0.8328	30.00	29.41	ug/L	-2	20	0.0500	u
Propylbenzene	3.7771	3.6085	30.00	28.66	ug/L	-4	20	0.0500	u
Bromobenzene	0.8150	0.7385	30.00	27.19	ug/L	-9	20	0.0500	u
1,3,5-Trimethylbenzene	2.5463	2.3887	30.00	28.14	ug/L	-6	20	0.0500	u
2-Chlorotoluene	2.6442	2.4921	30.00	28.27	ug/L	-6	20	0.0500	u
4-Chlorotoluene	2.4689	2.1865	30.00	26.57	ug/L	-11	20	0.0500	u
tert-Butylbenzene	2.1867	2.0391	30.00	27.98	ug/L	-7	20	0.0500	u
1,2,4-Trimethylbenzene	2.4906	2.2986	30.00	27.69	ug/L	-8	20	0.0500	u
sec-Butylbenzene	3.2125	3.1099	30.00	29.04	ug/L	-3	20	0.0500	u
para-Isopropyl Toluene	2.6157	2.3634	30.00	27.11	ug/L	-10	20	0.0500	u
1,3-Dichlorobenzene	1.5305	1.3342	30.00	26.15	ug/L	-13	20	0.0500	u
1,4-Dichlorobenzene	1.5776	1.3719	30.00	26.09	ug/L	-13	20	0.0500	u
n-Butylbenzene	2.3193	2.1875	30.00	28.30	ug/L	-6	20	0.0500	u
1,2-Dichlorobenzene	1.4603	1.2924	30.00	26.55	ug/L	-11	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1562	0.1496	30.00	28.74	ug/L	-4	20	0.0500	u
1,2,4-Trichlorobenzene	0.8415	0.7269	30.00	25.92	ug/L	-14	20	0.0500	u
Hexachlorobutadiene	0.4011	0.3804	30.00	28.45	ug/L	-5	20	0.0500	u
Naphthalene	1.8321	1.8976	30.00	31.07	ug/L	4	20	0.0500	u
1,2,3-Trichlorobenzene	0.7883	0.6971	30.00	26.53	ug/L	-12	20	0.0500	u
Dibromofluoromethane	0.4469	0.4762	50.00	53.29	ug/L	7	20	0.0500	u
1,2-Dichloroethane-d4	0.3648	0.3926	50.00	53.82	ug/L	8	20	0.0500	u
Toluene-d8	1.1453	1.2057	50.00	52.64	ug/L	5	20	0.0500	u
Bromofluorobenzene	1.0796	1.0658	50.00	49.36	ug/L	-1	20	0.0500	u

ISTD (ICAL kc520)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1029758	843269	-18.11	9.69	9.69	0.00
1,4-Difluorobenzene	1647210	1407796	-14.53	10.76	10.76	0.00
Chlorobenzene-d5	1410706	1233145	-12.59	14.30	14.30	0.00
1,4-Dichlorobenzene-d4	687699	596973	-13.19	16.73	16.73	0.00

Analyst: BO Date: 03/14/08 Reviewer: LW Date: 03/14/08

+=high bias -=low bias c=CCV u=use v=ICV

838102705006.9

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458105593

Date : 03/13/08 Reference : fc425
Sequence : MSVOA06 fcd Analyzed : 03/04/08 20:53

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	908555	11.86	1482658	13.18	1248754	17.92	684181	20.76
		LOWER LIMIT	454278	11.36	741329	12.68	624377	17.42	342091	20.26
		UPPER LIMIT	1817110	12.36	2965316	13.68	2497508	18.42	1368362	21.26
007	CCV/BS	QC432667	896745	11.86	1473278	13.17	1275452	17.91	722858	20.76
008	BSD	QC432668	917982	11.86	1627846	13.17	1388551	17.91	760524	20.76
010	BLANK	QC432669	900680	11.86	1577910	13.16	1337733	17.90	696819	20.76
011	SAMPLE	201887-001	901126	11.86	1518480	13.17	1307213	17.91	711519	20.76
012	SAMPLE	201887-002	919158	11.86	1544168	13.17	1332261	17.91	719809	20.76
013	SAMPLE	201887-003	933946	11.86	1581801	13.17	1365996	17.91	729618	20.76
014	SAMPLE	201887-001	985690	11.87	1664519	13.17	1408802	17.91	751477	20.76
015	SAMPLE	201887-002	957080	11.85	1642301	13.16	1428236	17.90	764410	20.76
016	SAMPLE	201645-009	996225	11.86	1679190	13.18	1449881	17.91	768895	20.76
017	SAMPLE	201783-002	929182	11.86	1591754	13.17	1377319	17.91	712003	20.76
018	SAMPLE	201783-007	936562	11.85	1586781	13.16	1359232	17.91	724708	20.76
019	SAMPLE	201664-002	959161	11.86	1624734	13.17	1390290	17.90	735501	20.76
020	SAMPLE	201749-001	884156	11.86	1547317	13.17	1325258	17.91	693642	20.76
021	SAMPLE	201783-001	902031	11.86	1593766	13.17	1362923	17.91	698893	20.76
022	SAMPLE	201783-003	916891	11.85	1578795	13.16	1342358	17.90	705223	20.76
023	SAMPLE	201783-004	937102	11.86	1624095	13.17	1392389	17.91	742249	20.76
024	SAMPLE	201783-005	903993	11.86	1533908	13.17	1322354	17.90	716426	20.76
025	SAMPLE	201783-006	904962	11.85	1565010	13.16	1329300	17.91	713453	20.76

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 838102705

Date : 03/11/08
Sequence : MSVOA11 kcb

Reference : kc520
Analyzed : 03/05/08 21:06

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1029758	9.69	1647210	10.76	1410706	14.30	687699	16.73
		LOWER LIMIT	514879	9.19	823605	10.26	705353	13.80	343850	16.23
		UPPER LIMIT	2059516	10.19	3294420	11.26	2821412	14.80	1375398	17.23
006	CCV/BS	QC432201	843269	9.69	1407796	10.76	1233145	14.30	596973	16.73
007	BSD	QC432202	882955	9.69	1467285	10.76	1271117	14.30	605351	16.73
009	BLANK	QC432200	851558	9.69	1428664	10.76	1215064	14.30	543678	16.73
010	SAMPLE	201715-001	820442	9.69	1389742	10.76	1178238	14.30	523043	16.73
011	SAMPLE	201602-002	795489	9.69	1351387	10.76	1158569	14.30	522954	16.73
012	SAMPLE	201749-002	763295	9.69	1305456	10.76	1122853	14.30	500693	16.73
013	SAMPLE	201659-001	761819	9.69	1302513	10.76	1112605	14.29	496203	16.73
014	SAMPLE	201715-002	733899	9.69	1261293	10.76	1081324	14.30	479412	16.73
015	SAMPLE	201715-003	723367	9.69	1248691	10.76	1090230	14.30	486595	16.73
016	SAMPLE	201715-004	741149	9.69	1289389	10.76	1126653	14.30	511564	16.73
017	SAMPLE	201715-005	762075	9.69	1313750	10.76	1147902	14.30	529232	16.73
018	SAMPLE	201715-006	790673	9.69	1349456	10.76	1191044	14.30	541062	16.73
019	SAMPLE	201787-001	833356	9.69	1403078	10.76	1224288	14.30	548286	16.73
020	SAMPLE	201749-001	846849	9.69	1428444	10.76	1229775	14.30	550128	16.73
021	SAMPLE	201777-001	817186	9.69	1377851	10.76	1190878	14.30	537645	16.73
022	SAMPLE	201777-004	794301	9.69	1353606	10.76	1174919	14.30	516553	16.73
023	SAMPLE	201777-005	771420	9.69	1322457	10.76	1143056	14.30	501174	16.73
024	SAMPLE	201585-010	760156	9.69	1307373	10.76	1131306	14.29	508967	16.73
025	SAMPLE	201538-001	748348	9.69	1282728	10.76	1116986	14.30	502843	16.73
026	SAMPLE	201777-003	719132	9.69	1247910	10.76	1087615	14.29	490684	16.73
027	SAMPLE	201777-002	712087	9.69	1231302	10.76	1062899	14.30	475533	16.73
028	SAMPLE	201639-001	695340	9.69	1215310	10.76	1056721	14.30	477920	16.73
029	SAMPLE	201639-002	695464	9.69	1209430	10.76	1047429	14.30	468265	16.73

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458092640

Instrument : MSVOA06
Method : EPA 8260B

Begun : 03/04/08 08:00
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	fc401	X	IB			03/04/08 08:00	1.0	1
002	fc402	X	LOW PT			03/04/08 08:57	1.0	1
003	fc403	X	BFB			03/04/08 09:36	1.0	2
004	fc404	X	BFB			03/04/08 09:53	1.0	2
005	fc405	X	BFB			03/04/08 10:12	1.0	2
006	fc406	X	20PPB			03/04/08 10:29	1.0	3 4 1
007	fc407	X	BFB			03/04/08 11:08	1.0	2
008	fc408	X	BFB			03/04/08 11:21	1.0	2
009	fc409	X	20PPB			03/04/08 11:38	1.0	3 4 1
010	fc410	X	IB			03/04/08 13:21	1.0	1
011	fc411	X	IB			03/04/08 13:56	1.0	1
012	fc412	X	IB			03/04/08 14:31	1.0	1
013	fc413	X	IB			03/04/08 15:06	1.0	1
014	fc414	X	BFB			03/04/08 15:38	1.0	2
015	fc415	X	BFB			03/04/08 15:51	1.0	2
016	fc416	X	BFB			03/04/08 16:08	1.0	2
017	fc417	TUN	BFB			03/04/08 16:23	1.0	2
018	fc418	IB	CALIB IB			03/04/08 16:52	1.0	1
019	fc419	ICAL	0.25/0.5PPB			03/04/08 17:26	1.0	3 5 6 1
020	fc420	ICAL	0.5/1PPB			03/04/08 18:00	1.0	3 5 6 1
021	fc421	ICAL	2PPB			03/04/08 18:35	1.0	3 5 6 1
022	fc422	ICAL	5PPB			03/04/08 19:09	1.0	3 5 6 1
023	fc423	ICAL	10PPB			03/04/08 19:43	1.0	3 5 6 1
024	fc424	ICAL	20PPB			03/04/08 20:18	1.0	3 5 6 1
025	fc425	ICAL	50PPB			03/04/08 20:53	1.0	3 5 6 1
026	fc426	ICAL	75PPB			03/04/08 21:28	1.0	3 5 6 1
027	fc427	ICAL	100PPB			03/04/08 22:02	1.0	3 5 6 1
028	fc428	ICV	25PPB			03/04/08 22:37	1.0	7 1
029	fc429	ICV	25PPB			03/04/08 23:12	1.0	8 9 1
030	fc430	X	IB			03/04/08 23:47	1.0	1
031	fc431	X	IB			03/05/08 00:22	1.0	1
032	fc432	X	IB			03/05/08 00:57	1.0	1

BO 03/05/08 : fc416, fc417, adjusted tune

Analyst: BO Date: 03/05/08 Reviewer: LW Date: 03/06/08

Standards used: 1=S8559 2=S7916 3=S8368 4=S8294 5=S8400 6=S8151 7=S8534 8=S8260 9=S8538

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458094087

Instrument : MSVOA06
Method : EPA 8260B

Begun : 03/05/08 08:07
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fc501	X	IB			03/05/08 08:07	1.0	1	
002	fc502	TUN	BFB			03/05/08 08:41	1.0	2	
003	fc503	CCV	30PPB			03/05/08 09:10	1.0	3 4 5 1	
004	fc504	X	QC431244	Water	135575	03/05/08 10:05	1.0	6 7 8 1	
005	fc505	X	IB			03/05/08 10:40	1.0	1	
006	fc506	ICV	25PPB			03/05/08 11:15	1.0	6 8 1	
007	fc507	ICAL	IODO25PPB			03/05/08 12:03	1.0	6 1	
008	fc508	LCS	QC431244	Water	135575	03/05/08 12:38	1.0	6 7 8 1	
009	fc509	TUN	BFB			03/05/08 13:20	1.0	2	
010	fc510	CCV	25PPB			03/05/08 13:44	1.0	6 7 8 1	
011	fc511	X	IB			03/05/08 14:36	1.0	1	
012	fc512	BLANK	QC431245	Water	135575	03/05/08 15:10	1.0	1	
013	fc513	SAMPLE	201609-013	Water	135575	03/05/08 15:45	1.0	1	
014	fc514	SAMPLE	201609-014	Water	135575	03/05/08 16:19	1.0	1	pH > 2
015	fc515	SAMPLE	201405-003	Water	135575	03/05/08 16:54	1.0	1	
016	fc516	MSS	201405-001	Water	135575	03/05/08 17:28	1.0	1	
017	fc517	SAMPLE	201405-002	Water	135575	03/05/08 18:02	1.0	1	
018	fc518	SAMPLE	201597-002	Water	135575	03/05/08 18:37	1.0	1	pH > 2
019	fc519	SAMPLE	201597-003	Water	135575	03/05/08 19:11	1.0	1	pH > 2
020	fc520	SAMPLE	201597-006	Water	135575	03/05/08 19:46	1.0	1	pH > 2
021	fc521	SAMPLE	201597-007	Water	135575	03/05/08 20:21	1.0	1	pH > 2
022	fc522	SAMPLE	201597-008	Water	135575	03/05/08 20:56	1.0	1	pH > 2
023	fc523	SAMPLE	201609-016	Water	135575	03/05/08 21:30	1.0	1	pH > 2
024	fc524	SAMPLE	201597-001	Water	135575	03/05/08 22:05	2.0	1	pH > 2
025	fc525	SAMPLE	201597-005	Water	135575	03/05/08 22:40	10.0	1	pH > 2
026	fc526	SAMPLE	201597-004	Water	135575	03/05/08 23:15	25.0	1	pH > 2
027	fc527	SAMPLE	201597-009	Water	135575	03/05/08 23:50	4.0	1	
028	fc528	MS	QC431351	Water	135575	03/06/08 00:24	1.0	1 6 7 8	
029	fc529	MSD	QC431352	Water	135575	03/06/08 00:59	1.0	1 6 7 8	
030	fc530	X	IB			03/06/08 01:34	1.0	1	
031	fc531	X	IB			03/06/08 02:09	1.0	1	
032	fc532	X	IB			03/06/08 02:43	1.0	1	

Analyst: BO Date: 03/06/08 Reviewer: LW Date: 03/06/08

Standards used: 1=S8559 2=S7916 3=S8368 4=S8400 5=S8151 6=S8260 7=S8534 8=S8538

00100

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458105593

Instrument : MSVOA06 Begun : 03/13/08 07:53
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fcd01	X	IB			03/13/08 07:53	1.0	1	
002	fcd02	X	BFB			03/13/08 08:25	1.0	2	
003	fcd03	X	BFB			03/13/08 08:39	1.0	2	
004	fcd04	X	BFB			03/13/08 09:18	1.0	2	
005	fcd05	TUN	BFB			03/13/08 09:31	1.0	2	
006	fcd06	X	20PPB			03/13/08 09:48	1.0	3 4 5 1	
007	fcd07	CCV/BS	QC432667	Water	135935	03/13/08 10:37	1.0	6 7 8 1	
008	fcd08	BSD	QC432668	Water	135935	03/13/08 11:11	1.0	6 7 8 1	
009	fcd09	X	IB			03/13/08 12:06	1.0	1	
010	fcd10	BLANK	QC432669	Water	135935	03/13/08 12:40	1.0	1	
011	fcd11	SAMPLE	201887-001	Water	135935	03/13/08 13:15	14.29	1	headspace > 1 mL
012	fcd12	SAMPLE	201887-002	Water	135935	03/13/08 13:50	10.0	1	headspace > 1 mL
013	fcd13	SAMPLE	201887-003	Water	135935	03/13/08 14:24	1.0	1	headspace > 1 mL, 2:ISOPROH=1700
014	fcd14	SAMPLE	201887-001	Water	135935	03/13/08 14:59	2.0	1	headspace > 1 mL
015	fcd15	SAMPLE	201887-002	Water	135935	03/13/08 15:34	3.333	1	headspace > 1 mL
016	fcd16	SAMPLE	201645-009	Water	135935	03/13/08 16:08	1.0	1	headspace > 1 mL
017	fcd17	SAMPLE	201783-002	Water	135935	03/13/08 16:43	1.0	1	
018	fcd18	SAMPLE	201783-007	Water	135935	03/13/08 17:17	1.0	1	
019	fcd19	SAMPLE	201664-002	Water	135935	03/13/08 17:52	1.0	1	
020	fcd20	SAMPLE	201749-001	Water	135935	03/13/08 18:26	1.0	1	
021	fcd21	SAMPLE	201783-001	Water	135935	03/13/08 19:00	1.0	1	
022	fcd22	SAMPLE	201783-003	Water	135935	03/13/08 19:35	1.0	1	
023	fcd23	SAMPLE	201783-004	Water	135935	03/13/08 20:10	1.0	1	pH > 2
024	fcd24	SAMPLE	201783-005	Water	135935	03/13/08 20:44	1.0	1	
025	fcd25	SAMPLE	201783-006	Water	135935	03/13/08 21:19	1.0	1	
026	fcd26	X	IB			03/13/08 21:54	1.0	1	
027	fcd27	X	IB			03/13/08 22:28	1.0	1	
028	fcd28	X	IB			03/13/08 23:03	1.0	1	

BO 03/13/08 : fcd04 adjusted tune

Analyst: BO Date: 03/14/08 Reviewer: LW Date: 03/14/08

Standards used: 1=S8559 2=S7916 3=S8368 4=S8400 5=S8151 6=S8648 7=S8534 8=S8538

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838094261

Instrument : MSVOA11 Begun : 03/05/08 11:01
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	kc501	X	IB			03/05/08 11:01	1.0	1
002	kc502	X	IB			03/05/08 11:30	1.0	1
003	kc503	X	LOW PT			03/05/08 11:58	1.0	1
004	kc504	TUN	BFB			03/05/08 12:31	1.0	2
005	kc505	TUN	BFB			03/05/08 12:42	1.0	2
006	kc506	TUN	BFB			03/05/08 13:02	1.0	2
007	kc507	X	IB			03/05/08 13:38	1.0	1
008	kc508	X	IB			03/05/08 14:06	1.0	1
009	kc509	X	IB			03/05/08 14:34	1.0	1
010	kc510	X	IB			03/05/08 15:03	1.0	1
011	kc511	TUN	BFB			03/05/08 16:51	1.0	2
012	kc512	X	IB			03/05/08 17:19	1.0	3
013	kc513	IB	CALIB			03/05/08 17:47	1.0	3
014	kc514	ICAL	0.25/0.5P			03/05/08 18:16	1.0	4 5 6 3
015	kc515	ICAL	0.5/1PPB			03/05/08 18:44	1.0	4 5 6 3
016	kc516	ICAL	2PPB			03/05/08 19:12	1.0	4 5 6 3
017	kc517	ICAL	5PPB			03/05/08 19:40	1.0	4 5 6 3
018	kc518	ICAL	10PPB			03/05/08 20:08	1.0	4 5 6 3
019	kc519	ICAL	20PPB			03/05/08 20:38	1.0	4 5 6 3
020	kc520	ICAL	50PPB			03/05/08 21:06	1.0	4 5 6 3
021	kc521	ICAL	75PPB			03/05/08 21:34	1.0	4 5 6 3
022	kc522	ICAL	100PPB			03/05/08 22:02	1.0	4 5 6 3
023	kc523	ICV	ICVGAS25PPB			03/05/08 22:30	1.0	7 3
024	kc524	ICV	ICV25PPB			03/05/08 22:58	1.0	8 9 3
025	kc525	X	IB			03/05/08 23:27	1.0	3
026	kc526	X	IB			03/05/08 23:55	1.0	3
027	kc527	X	IB			03/06/08 00:23	1.0	10

Analyst: ACM Date: 03/06/08 Reviewer: LW Date: 03/06/08

Standards used: 1=S8080 2=S7916 3=S8552 4=S8294 5=S8368 6=S8151 7=S8534 8=S8260 9=S8538 10=S8080S8552

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838102705

Instrument : MSVOA11 Begun : 03/11/08 07:45
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kcb01	X	IB			03/11/08 07:45	1.0	1	
002	kcb02	X	BFB			03/11/08 09:07	1.0	2	
004	kcb04	X	QC432201	Water	135809	03/11/08 09:30	1.0	3 4 5 1	
005	kcb05	TUN	BFB			03/11/08 10:10	1.0	2	
006	kcb06	CCV/BS	QC432201	Water	135809	03/11/08 10:33	1.0	3 4 5 1	
007	kcb07	BSD	QC432202	Water	135809	03/11/08 11:10	1.0	3 4 5 1	
008	kcb08	X	IB			03/11/08 11:38	1.0	1	
009	kcb09	BLANK	QC432200	Water	135809	03/11/08 12:06	1.0	1	
010	kcb10	SAMPLE	201715-001	Water	135809	03/11/08 12:34	1.0	1	
011	kcb11	SAMPLE	201602-002	Water	135809	03/11/08 13:03	1.0	1	
012	kcb12	SAMPLE	201749-002	Water	135809	03/11/08 13:31	1.0	1	
013	kcb13	SAMPLE	201659-001	Water	135809	03/11/08 13:59	1.0	1	
014	kcb14	SAMPLE	201715-002	Water	135809	03/11/08 14:27	1.0	1	
015	kcb15	SAMPLE	201715-003	Water	135809	03/11/08 14:55	1.0	1	
016	kcb16	SAMPLE	201715-004	Water	135809	03/11/08 15:24	1.0	1	
017	kcb17	SAMPLE	201715-005	Water	135809	03/11/08 15:52	1.0	1	
018	kcb18	SAMPLE	201715-006	Water	135809	03/11/08 16:20	1.0	1	
019	kcb19	SAMPLE	201787-001	Water	135809	03/11/08 16:48	1.0	1	
020	kcb20	SAMPLE	201749-001	Water	135809	03/11/08 17:16	1.0	1	
021	kcb21	SAMPLE	201777-001	Water	135809	03/11/08 17:45	1.0	1	
022	kcb22	SAMPLE	201777-004	Water	135809	03/11/08 18:13	1.0	1	
023	kcb23	SAMPLE	201777-005	Water	135809	03/11/08 18:41	1.0	1	
024	kcb24	SAMPLE	201585-010	Water	135809	03/11/08 19:09	1.0	1	
025	kcb25	SAMPLE	201538-001	Water	135809	03/11/08 19:37	20.0	1	
026	kcb26	SAMPLE	201777-003	Water	135809	03/11/08 20:05	3.333	1	
027	kcb27	SAMPLE	201777-002	Water	135809	03/11/08 20:34	7.143	1	
028	kcb28	SAMPLE	201639-001	Water	135809	03/11/08 21:02	125.0	1	1:MTLNCL=120
029	kcb29	SAMPLE	201639-002	Water	135809	03/11/08 21:30	714.3	1	
030	kcb30	X	IB			03/11/08 21:58	1.0	1	
031	kcb31	X	IB			03/11/08 22:26	1.0	1	
032	kcb32	X	IB			03/11/08 22:55	1.0	1	
033	kcb33	X	IB			03/11/08 23:23	1.0	1	
034	kcb34	X	IB			03/11/08 23:51	1.0	1	

Analyst: ACM Date: 03/12/08 Reviewer: LW Date: 03/12/08

Standards used: 1=S8552 2=S7916 3=S8260 4=S8534 5=S8538

GC/MS VOLATILE ORGANICS **Batch #:** 135809 **Water Sample Prep Sheet**

(20)

	Sample Number	Vial	pH	Head space?	Shelf	MS#	Comments	Initials & Date
1	201659-1	C	<2			11	~~MA~~ 1x, Fr 113 curve +	
2	201538-001	C	<2				~~MA~~ 20x on (7CE)	
3	~~201547-005~~		↓				~~MA 125x Ace, Tol 7 LA~~	
4	201639-1	B	2.2				125x Cool Last	
5	2	B	<2				714X ↓	
6	201715-1	A					~~TX~~ TB	
7	2	↓					~~1X~~ 1X	
8	3							
9	4						~~4~~ ↓	
10	5						~~5~~ ~~TB~~ 1X	
11	6	↓					~~TB~~ 1X	
12	201787-001	B					1X	
13	201749-1	A					1X	
14	2	B	↓				TB	
15	201774-1	B					1X Put off	
16	4	↓					↓ on ms-9	
17	5	↓					↓	
18	7	A	↓			↓	EB ~~TB~~	
19	201602-2	A	<2			11	TB ~~EB~~	
20								
21	201777-1	B	<2			11	1x	
22	2	↓	<2				7.14x	
23	3		↓				3.3x	
24	4		<2				1x	
25	5	↓	↓			↓	↓	
26	201585-010	C	<2			11	~~MA~~ 1x ~~Hex~~ ~~PM~~	
27								
28								
29								
30								
31								
32								
33								
34								
35								

GC/MS VOLATILE ORGANICS **Batch #: 135935** **Water Sample Prep Sheet**

	Sample Number	Vial	pH	Head space?	Shelf	MS#	Comments	Initials & Date
1	201664-2	C	<2			6	MS 1x, OK, clear,	2nd 3/13/08
2	201645-9	A	↓	10 mL			MS 1x, MB contaminated TB	
3	201844-1	C	<2				MS 4x, TCE 2 ul PUT OFF	
4	-2	F	↓				MS 1x, TCE ok clear	
5	201887-1x	A	<2	2mL			14.2x ~FOAM	
6	-2x	↓	↓	↓			10x	
7	-3x	↓	↓	↓			~~23x~~ 1x	
8	201783-1	A	<2				1x	
9	-2	↓	↓				TB	
10	-3	↓	+				1x	
11	-4	↓	8				1x	
12	-5	B	<2				1x	
13	-6	↓	↓				1x	
14	-7	A	↓				TB	
15	201749-1	B	↓			↓	MS 1x, Clear Correct	
16	201887-1	A	<2	6mL		6	MS 2x FOAM	
17	-2	↓	↓	8mL		↓	MS 7.3x	
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

GS135935

Curtis & Tompkins, Ltd.

Semivolatile Organics
Data
By 8270-SIM

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX303RB304	Batch#:	135752
Lab ID:	201749-001	Sampled:	03/06/08
Matrix:	Water	Received:	03/06/08
Units:	ug/L	Prepared:	03/09/08
Diln Fac:	1.000	Analyzed:	03/12/08

Analyte	Result	RL	MDL
Naphthalene	ND	0.09	0.02
2-Methylnaphthalene	ND	0.09	0.02
Acenaphthylene	ND	0.09	0.02
Acenaphthene	ND	0.09	0.02
Fluorene	ND	0.09	0.02
Phenanthrene	ND	0.09	0.02
Anthracene	ND	0.09	0.02
Fluoranthene	ND	0.09	0.02
Pyrene	ND	0.09	0.02
Benzo(a)anthracene	ND	0.09	0.02
Chrysene	ND	0.09	0.02
Benzo(b)fluoranthene	ND	0.09	0.02
Benzo(k)fluoranthene	ND	0.09	0.02
Benzo(a)pyrene	ND	0.09	0.02
Indeno(1,2,3-cd)pyrene	ND	0.09	0.02
Dibenz(a,h)anthracene	ND	0.09	0.02
Benzo(g,h,i)perylene	ND	0.09	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	91	46-129
2-Fluorobiphenyl	69	50-120
Terphenyl-d14	91	33-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

15.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC431961	Batch#:	135752
Matrix:	Water	Prepared:	03/09/08
Units:	ug/L	Analyzed:	03/10/08

Analyte	Result	RL	MDL
Naphthalene	ND	0.1	0.02
2-Methylnaphthalene	ND	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	ND	0.1	0.02
Phenanthrene	ND	0.1	0.02
Anthracene	ND	0.1	0.02
Fluoranthene	ND	0.1	0.02
Pyrene	ND	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.03
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	ND	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	78	46-129
2-Fluorobiphenyl	88	50-120
Terphenyl-d14	87	33-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

16.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3520C
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	135752
Units:	ug/L	Prepared:	03/09/08
Diln Fac:	1.000	Analyzed:	03/10/08

Type: BS Lab ID: QC431962

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	0.9006	90	49-120
Pyrene	1.000	0.8540	85	40-120

Surrogate	%REC	Limits
Nitrobenzene-d5	79	46-129
2-Fluorobiphenyl	87	50-120
Terphenyl-d14	83	33-120

Type: BSD Lab ID: QC431963

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	0.8139	81	49-120	10	28
Pyrene	1.000	0.7778	78	40-120	9	27

Surrogate	%REC	Limits
Nitrobenzene-d5	72	46-129
2-Fluorobiphenyl	79	50-120
Terphenyl-d14	75	33-120

RPD= Relative Percent Difference

Level III for 201749 MSSIM Water

Generated on 03/13/08 16:38.

00110

CURTIS & TOMPKINS DFTPP TUNE FOR 201749 MSSIM Water
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518081271003 File : ubp03 Time : 25-FEB-2008 12:10

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	32573	40.77	
68	< 2% of mass 69	0	0.00	
69		42253		
70	< 2% of mass 69	83	0.20	
127	40% - 60% of mass 198	39152	49.00	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5281	6.61	
275	10% - 30% of mass 198	12998	16.27	
365	> 1% of mass 198	1031	1.29	
441	Present, < mass 443	7734	67.38	
442	> 40% and < 100% of mass 198	57033	71.38	
443	17% - 23% of mass 442	11478	20.13	

Analyst: AD Date: 02/25/08 Reviewer: LW Date: 02/26/08

518081271003

CURTIS & TOMPKINS DFTPP TUNE FOR 201749 MSSIM Water
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518081271013 File : ubp13 Time : 25-FEB-2008 18:48

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	36480	42.07	
68	< 2% of mass 69	0	0.00	
69		46496		
70	< 2% of mass 69	70	0.15	
127	40% - 60% of mass 198	43013	49.61	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	5519	6.36	
275	10% - 30% of mass 198	13795	15.91	
365	> 1% of mass 198	1022	1.18	
441	Present, < mass 443	718	5.91	
442	> 40% and < 100% of mass 198	60524	69.80	
443	17% - 23% of mass 442	12139	20.06	

Analyst: AD Date: 02/26/08 Reviewer: LW Date: 02/26/08

518081271013

CURTIS & TOMPKINS DFTPP TUNE FOR 201749 MSSIM Water
EPA 8270C

Inst : MSBNA02 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 518102839011 File : ucb11 Time : 11-MAR-2008 18:07

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	28128	59.20	
68	< 2% of mass 69	0	0.00	
69		31629		
70	< 2% of mass 69	103	0.33	
127	40% - 60% of mass 198	23595	49.66	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	3117	6.56	
275	10% - 30% of mass 198	8761	18.44	
365	> 1% of mass 198	826	1.74	
441	Present, < mass 443	3442	46.84	
442	> 40% and < 100% of mass 198	37881	79.73	
443	17% - 23% of mass 442	7349	19.40	

Analyst: LLH Date: 03/13/08 Reviewer: AD Date: 03/13/08

518102839011

CURTIS & TOMPKINS DFTPP TUNE FOR 201749 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528094338009 File : vc509 Time : 05-MAR-2008 19:47

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	381042	46.52	
68	< 2% of mass 69	0	0.00	
69		408451		
70	< 2% of mass 69	2294	0.56	
127	40% - 60% of mass 198	444117	54.22	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	55965	6.83	
275	10% - 30% of mass 198	221184	27.00	
365	> 1% of mass 198	20030	2.45	
441	Present, < mass 443	103344	95.60	
442	> 40% and < 100% of mass 198	578965	70.68	
443	17% - 23% of mass 442	108104	18.67	

AD: 03/06/08 EAH: 03/06/08 LW: 03/07/08

528094338009

CURTIS & TOMPKINS DFTPP TUNE FOR 201749 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528101512003 File : vca03 Time : 10-MAR-2008 16:44

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	247813	48.41	
68	< 2% of mass 69	0	0.00	
69		243584		
70	< 2% of mass 69	1275	0.52	
127	40% - 60% of mass 198	291882	57.02	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	36114	7.05	
275	10% - 30% of mass 198	140213	27.39	
365	> 1% of mass 198	13216	2.58	
441	Present, < mass 443	71826	93.67	
442	> 40% and < 100% of mass 198	391402	76.46	
443	17% - 23% of mass 442	76677	19.59	

Analyst: AD Date: 03/10/08 Reviewer: LW Date: 03/11/08

528101512003

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA02
Calnum : 518081271001
Units : ug/mL

Name : 2PAHSIM
Date : 25-FEB-2008 13:48
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ubp05	518081271005	0.2/1.0UG/ML	25-FEB-2008 13:48	S8085
L2	ubp06	518081271006	0.5/2.5UG/ML	25-FEB-2008 14:26	S8087
L3	ubp07	518081271007	1.0/5.0UG/ML	25-FEB-2008 15:00	S8088
L4	ubp08	518081271008	2.0/10UG/ML	25-FEB-2008 15:36	S8089
L5	ubp09	518081271009	5.0/25UG/ML	25-FEB-2008 16:12	S8090
L6	ubp10	518081271010	10/50UG/ML	25-FEB-2008 16:51	S8091
L7	ubp12	518081271012	0.1/0.5UG/ML	25-FEB-2008 18:00	S8142

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1450	1.0183	1.0420	1.0575	1.0842	1.0927	1.0758	AVRG		0.93140		1.0737	4	15	0.05	0.99	
2-Methylnaphthalene	0.5675	0.5115	0.5280	0.5613	0.5845	0.5948	0.4965	AVRG		1.82100		0.5491	7	15	0.05	0.99	
Acenaphthylene	1.8829	1.6972	1.8830	1.9212	2.0231	2.0018	1.7204	AVRG		0.53314		1.8757	7	15	0.05	0.99	
Acenaphthene	1.1708	1.0423	1.1392	1.1423	1.1760	1.1765	1.0525	AVRG		0.88613		1.1285	5	15	0.05	0.99	
Fluorene	1.2682	1.1046	1.2600	1.2542	1.2856	1.2913	1.1021	AVRG		0.81719		1.2237	7	15	0.05	0.99	
Phenanthrene	1.2721	1.1376	1.2144	1.2409	1.2380	1.2099	1.1981	AVRG		0.82247		1.2158	3	15	0.05	0.99	
Anthracene	1.2909m	1.2015m	1.3014m	1.3351m	1.3061	1.2797	1.1698m	AVRG		0.78788		1.2692	5	15	0.05	0.99	
Fluoranthene	1.2734	1.1561	1.2482	1.2721	1.2586	1.2242	1.1572	AVRG		0.81492		1.2271	4	15	0.05	0.99	
Pyrene	1.8465	1.6204	1.6740	1.5833	1.5662	1.5227	1.8731m	AVRG		0.59900		1.6695	8	15	0.05	0.99	
Benzo(a)anthracene	1.2267	1.1095	1.1696	1.1820	1.2471	1.2268	1.1075	AVRG		0.84650		1.1813	5	15	0.05	0.99	
Chrysene	1.4241m	1.2715m	1.3117m	1.2995m	1.2888m	1.2683m	1.3795m	AVRG		0.75729		1.3205	4	15	0.05	0.99	
Benzo(b)fluoranthene	1.2834	1.0788	1.1846	1.1499	1.2536	1.1426	1.1181	AVRG		0.85252		1.1730	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.3386m	1.2606m	1.3471	1.4121	1.2660	1.0884	1.3716	AVRG		0.77055		1.2978	8	15	0.05	0.99	
Benzo(a)pyrene	1.1525m	0.9856m	1.0206	1.0774	1.1392	1.1207	1.0093m	AVRG		0.93267		1.0722	6	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.8543m	0.7550m	0.7874	0.8588	1.0313	1.0240	0.7634m	AVRG		1.15242		0.8677	13	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6683m	0.6197m	0.6489m	0.7116m	0.8675	0.8588	0.6394m	AVRG		1.39602		0.7163	15	15	0.05	0.99	
Benzo(g,h,i)perylene	0.8814m	0.7478m	0.7548m	0.7966m	0.9277m	0.9095m	0.8330m	AVRG		1.19641		0.8358	9	15	0.05	0.99	
Nitrobenzene-d5	0.2847m	0.2358m	0.2430m	0.2571	0.2750	0.2946		AVRG		3.77315		0.2650	9	15	0.05	0.99	
2-Fluorobiphenyl	1.2416	1.1075	1.2439	1.2425	1.2954	1.2603		AVRG		0.81178		1.2319	5	15	0.05	0.99	
Terphenyl-d14	1.1255	0.9774	1.0157	0.9876	0.9865	0.9533		AVRG		0.99240		1.0077	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.200	7	0.500	-5	1.000	-3	2.000	-2	5.000	1	10.00	2	0.100	0
2-Methylnaphthalene	0.200	3	0.500	-7	1.000	-4	2.000	2	5.000	6	10.00	8	0.100	-10
Acenaphthylene	0.200	0	0.500	-10	1.000	0	2.000	2	5.000	8	10.00	7	0.100	-8
Acenaphthene	0.200	4	0.500	-8	1.000	1	2.000	1	5.000	4	10.00	4	0.100	-7
Fluorene	0.200	4	0.500	-10	1.000	3	2.000	2	5.000	5	10.00	6	0.100	-10
Phenanthrene	0.200	5	0.500	-6	1.000	0	2.000	2	5.000	2	10.00	0	0.100	-1
Anthracene	0.200	2	0.500	-5	1.000	3	2.000	5	5.000	3	10.00	1	0.100	-8
Fluoranthene	0.200	4	0.500	-6	1.000	2	2.000	4	5.000	3	10.00	0	0.100	-6
Pyrene	0.200	11	0.500	-3	1.000	0	2.000	-5	5.000	-6	10.00	-9	0.100	12
Benzo(a)anthracene	0.200	4	0.500	-6	1.000	-1	2.000	0	5.000	6	10.00	4	0.100	-6
Chrysene	0.200	8	0.500	-4	1.000	-1	2.000	-2	5.000	-2	10.00	-4	0.100	4
Benzo(b)fluoranthene	0.200	9	0.500	-8	1.000	1	2.000	-2	5.000	7	10.00	-3	0.100	-5
Benzo(k)fluoranthene	0.200	3	0.500	-3	1.000	4	2.000	9	5.000	-2	10.00	-16	0.100	6
Benzo(a)pyrene	0.200	7	0.500	-8	1.000	-5	2.000	0	5.000	6	10.00	5	0.100	-6
Indeno(1,2,3-cd)pyrene	0.200	-2	0.500	-13	1.000	-9	2.000	-1	5.000	19	10.00	18	0.100	-12
Dibenz(a,h)anthracene	0.200	-7	0.500	-13	1.000	-9	2.000	-1	5.000	21	10.00	20	0.100	-11
Benzo(g,h,i)perylene	0.200	5	0.500	-11	1.000	-10	2.000	-5	5.000	11	10.00	9	0.100	0
Nitrobenzene-d5	0.200	7	0.500	-11	1.000	-8	2.000	-3	5.000	4	10.00	11		
2-Fluorobiphenyl	0.200	1	0.500	-10	1.000	1	2.000	1	5.000	5	10.00	2		
Terphenyl-d14	0.200	12	0.500	-3	1.000	1	2.000	-2	5.000	-2	10.00	-5		

AD 02/26/08 : Manual integrations due to tailing/splitting of peaks.

AD 02/26/08 [Nitrobenzene-d5]: Baseline does not display because the integration ends outside the RT window. Integration is appropriate.

Analyst: AD Date: 02/26/08 Reviewer: LW Date: 02/26/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201749 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA02 Name : 2PAHSIM
Calnum : 518081271001 Cal Date : 25-FEB-2008

ICV 518081271014 (ubp14 25-FEB-2008) stds: S8092

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0737	1.1041	1.000	1.028	ug/mL	3	20	
2-Methylnaphthalene	0.5491	0.5980	1.000	1.089	ug/mL	9	20	
Acenaphthylene	1.8757	1.9289	1.000	1.028	ug/mL	3	20	
Acenaphthene	1.1285	1.1849	1.000	1.050	ug/mL	5	20	
Fluorene	1.2237	1.2723	1.000	1.040	ug/mL	4	20	
Phenanthrene	1.2158	1.2796	1.000	1.052	ug/mL	5	20	
Anthracene	1.2692	1.2256	1.000	0.9656	ug/mL	-3	20	m
Fluoranthene	1.2271	1.2987	1.000	1.058	ug/mL	6	20	
Pyrene	1.6695	1.6186	1.000	0.9695	ug/mL	-3	20	
Benzo(a)anthracene	1.1813	1.2560	1.000	1.063	ug/mL	6	20	
Chrysene	1.3205	1.3871	1.000	1.050	ug/mL	5	20	m
Benzo(b)fluoranthene	1.1730	1.2125	1.000	1.034	ug/mL	3	20	
Benzo(k)fluoranthene	1.2978	1.3240	1.000	1.020	ug/mL	2	20	
Benzo(a)pyrene	1.0722	1.0328	1.000	0.9632	ug/mL	-4	20	
Indeno(1,2,3-cd)pyrene	0.8677	0.8774	1.000	1.011	ug/mL	1	20	
Dibenz(a,h)anthracene	0.7163	0.6982	1.000	0.9747	ug/mL	-3	20	
Benzo(g,h,i)perylene	0.8358	0.7940	1.000	0.9499	ug/mL	-5	20	m

m=manual integration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 201749 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528094338001
Units : ug/mL

Name : 3PAHSIM
Date : 05-MAR-2008 20:11
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vc510	528094338010	0.1/0.5UG/ML	05-MAR-2008 20:11	S8142
L2	vc511	528094338011	0.2/1.0UG/ML	05-MAR-2008 20:47	S8085
L3	vc512	528094338012	0.5/2.5UG/ML	05-MAR-2008 21:23	S8087
L4	vc513	528094338013	1.0/5.0UG/ML	05-MAR-2008 21:58	S8088
L5	vc514	528094338014	2.0/10UG/ML	05-MAR-2008 22:32	S8089
L6	vc515	528094338015	5.0/25UG/ML	05-MAR-2008 23:07	S8090
L7	vc516	528094338016	10/50UG/ML	05-MAR-2008 23:41	S8091

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1158	1.1510	1.0247	1.0822	1.1025	1.1146	1.1072	AVRG		0.90934		1.0997	4	15	0.05	0.99	
2-Methylnaphthalene	0.6934	0.7553	0.6782	0.7213	0.7409	0.7625	0.7692	AVRG		1.36699		0.7315	5	15	0.05	0.99	
Acenaphthylene	1.4361	1.6467	1.5513	1.6935	1.7837	1.8597	1.8781	AVRG		0.59076		1.6927	10	15	0.05	0.99	
Acenaphthene	1.0339	1.1462	1.0269	1.0865	1.1092	1.1509	1.1537	AVRG		0.90824		1.1010	5	15	0.05	0.99	
Fluorene	1.1700	1.3120	1.2058	1.2927	1.3467	1.4032	1.4193	AVRG		0.76506		1.3071	7	15	0.05	0.99	
Phenanthrene	1.1555	1.2584	1.1390	1.1997	1.2176	1.2293	1.1879	AVRG		0.83460		1.1982	3	15	0.05	0.99	
Anthracene	0.9588	1.0434	1.0103	1.1083	1.1667	1.2206	1.1756	AVRG		0.91102		1.0977	9	15	0.05	0.99	
Fluoranthene	1.1111	1.2501	1.1755	1.2688	1.3165	1.3492	1.3068	AVRG		0.79745		1.2540	7	15	0.05	0.99	
Pyrene	1.3108	1.4269	1.3111	1.3713	1.4109	1.4443	1.4185	AVRG		0.72212		1.3848	4	15	0.05	0.99	
Benzo(a)anthracene	1.0522	1.1631	1.0795	1.1519	1.1999	1.2496	1.2200	AVRG		0.86248		1.1594	6	15	0.05	0.99	
Chrysene	1.2072	1.3172	1.1725	1.2255	1.2240	1.2468	1.2044	AVRG		0.81419		1.2282	4	15	0.05	0.99	
Benzo(b)fluoranthene	1.2353	1.3446	1.2719	1.3370	1.3612	1.4548	1.3892	AVRG		0.74516		1.3420	5	15	0.05	0.99	
Benzo(k)fluoranthene	1.2575m	1.4054m	1.2854m	1.3537	1.4028	1.4328	1.4188	AVRG		0.73249		1.3652	5	15	0.05	0.99	
Benzo(a)pyrene	1.0509	1.1154	1.0558	1.1525	1.2145	1.2984	1.2972	AVRG		0.85525		1.1692	9	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.8045m	0.8984m	0.8356	0.9285m	0.9877	1.0688	1.1025	AVRG		1.05645		0.9466	12	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6895m	0.7691m	0.7191	0.7934	0.8418	0.9146	0.9463	AVRG		1.23371		0.8106	12	15	0.05	0.99	
Benzo(g,h,i)perylene	0.7035m	0.7826m	0.7127	0.7725	0.8169	0.8638	0.8868	AVRG		1.26383		0.7912	9	15	0.05	0.99	
Nitrobenzene-d5	0.1108	0.1138	0.1084	0.1229	0.1446			AVRG		8.32639		0.1201	12	15	0.05	0.99	
2-Fluorobiphenyl	1.2998	1.3927	1.2443	1.3021	1.3188	1.3503	1.3474	AVRG		0.75631		1.3222	4	15	0.05	0.99	
Terphenyl-d14	0.9323	1.0450	0.9371	0.9758	0.9976	1.0245	0.9960	AVRG		1.01327		0.9869	4	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	1	0.200	5	0.500	-7	1.000	-2	2.000	0	5.000	1	10.00	1
2-Methylnaphthalene	0.100	-5	0.200	3	0.500	-7	1.000	-1	2.000	1	5.000	4	10.00	5
Acenaphthylene	0.100	-15	0.200	-3	0.500	-8	1.000	0	2.000	5	5.000	10	10.00	11
Acenaphthene	0.100	-6	0.200	4	0.500	-7	1.000	-1	2.000	1	5.000	5	10.00	5
Fluorene	0.100	-10	0.200	0	0.500	-8	1.000	-1	2.000	3	5.000	7	10.00	9
Phenanthrene	0.100	-4	0.200	5	0.500	-5	1.000	0	2.000	2	5.000	3	10.00	-1
Anthracene	0.100	-13	0.200	-5	0.500	-8	1.000	1	2.000	6	5.000	11	10.00	7
Fluoranthene	0.100	-11	0.200	0	0.500	-6	1.000	1	2.000	5	5.000	8	10.00	4
Pyrene	0.100	-5	0.200	3	0.500	-5	1.000	-1	2.000	2	5.000	4	10.00	2
Benzo(a)anthracene	0.100	-9	0.200	0	0.500	-7	1.000	-1	2.000	3	5.000	8	10.00	5
Chrysene	0.100	-2	0.200	7	0.500	-5	1.000	0	2.000	0	5.000	2	10.00	-2
Benzo(b)fluoranthene	0.100	-8	0.200	0	0.500	-5	1.000	0	2.000	1	5.000	8	10.00	4
Benzo(k)fluoranthene	0.100	-8	0.200	3	0.500	-6	1.000	-1	2.000	3	5.000	5	10.00	4
Benzo(a)pyrene	0.100	-10	0.200	-5	0.500	-10	1.000	-1	2.000	4	5.000	11	10.00	11
Indeno(1,2,3-cd)pyrene	0.100	-15	0.200	-5	0.500	-12	1.000	-2	2.000	4	5.000	13	10.00	16
Dibenz(a,h)anthracene	0.100	-15	0.200	-5	0.500	-11	1.000	-2	2.000	4	5.000	13	10.00	17
Benzo(g,h,i)perylene	0.100	-11	0.200	-1	0.500	-10	1.000	-2	2.000	3	5.000	9	10.00	12
Nitrobenzene-d5	0.100	-8	0.200	-5	0.500	-10	1.000	2	2.000	20				
2-Fluorobiphenyl	0.100	-2	0.200	5	0.500	-6	1.000	-2	2.000	0	5.000	2	10.00	2
Terphenyl-d14	0.100	-6	0.200	6	0.500	-5	1.000	-1	2.000	1	5.000	4	10.00	1

AD 03/06/08 : Manual integrations to correct baseline for isomeric pairs/tailing peaks.

Analyst: AD Date: 03/06/08 Reviewer: LW Date: 03/07/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 201749 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Name : 3PAHSIM
Calnum : 528094338001 Cal Date : 05-MAR-2008

ICV 528094338017 (vc517 06-MAR-2008) stds: S8092

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0997	1.1425	1.000	1.039	ug/mL	4	20	
2-Methylnaphthalene	0.7315	0.7871	1.000	1.076	ug/mL	8	20	
Acenaphthylene	1.6927	1.7725	1.000	1.047	ug/mL	5	20	
Acenaphthene	1.1010	1.1307	1.000	1.027	ug/mL	3	20	
Fluorene	1.3071	1.3497	1.000	1.033	ug/mL	3	20	
Phenanthrene	1.1982	1.2672	1.000	1.058	ug/mL	6	20	
Anthracene	1.0977	1.0788	1.000	0.9828	ug/mL	-2	20	
Fluoranthene	1.2540	1.3263	1.000	1.058	ug/mL	6	20	
Pyrene	1.3848	1.4042	1.000	1.014	ug/mL	1	20	
Benzo(a)anthracene	1.1594	1.2164	1.000	1.049	ug/mL	5	20	
Chrysene	1.2282	1.2681	1.000	1.033	ug/mL	3	20	
Benzo(b)fluoranthene	1.3420	1.4290	1.000	1.065	ug/mL	6	20	
Benzo(k)fluoranthene	1.3652	1.3463	1.000	0.9861	ug/mL	-1	20	
Benzo(a)pyrene	1.1692	1.1868	1.000	1.015	ug/mL	2	20	
Indeno(1,2,3-cd)pyrene	0.9466	1.0174	1.000	1.075	ug/mL	7	20	
Dibenz(a,h)anthracene	0.8106	0.8389	1.000	1.035	ug/mL	3	20	
Benzo(g,h,i)perylene	0.7912	0.8255	1.000	1.043	ug/mL	4	20	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA02 Run Name : 0.5/2.5UG/ML IDF : 1.0
Seqnum : 518102839012.1 File : ucb12 Time : 11-MAR-2008 18:28
Cal : 518081271001 Caldate : 25-FEB-2008
Standards: S8087

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0737	0.9885	0.5000	0.4604	ug/mL	-8	20	0.0500	
2-Methylnaphthalene	0.5491	0.5278	0.5000	0.4806	ug/mL	-4	20	0.0500	
Acenaphthylene	1.8757	1.7555	0.5000	0.4680	ug/mL	-6	20	0.0500	
Acenaphthene	1.1285	1.0214	0.5000	0.4525	ug/mL	-10	20	0.0500	
Fluorene	1.2237	1.1211	0.5000	0.4581	ug/mL	-8	20	0.0500	
Phenanthrene	1.2158	1.2445	0.5000	0.5118	ug/mL	2	20	0.0500	
Anthracene	1.2692	1.3433	0.5000	0.5292	ug/mL	6	20	0.0500	m
Fluoranthene	1.2271	1.1244	0.5000	0.4581	ug/mL	-8	20	0.0500	
Pyrene	1.6695	1.5065	0.5000	0.4512	ug/mL	-10	20	0.0500	
Benzo(a)anthracene	1.1813	1.1906	0.5000	0.5039	ug/mL	1	20	0.0500	
Chrysene	1.3205	1.3502	0.5000	0.5113	ug/mL	2	20	0.0500	m
Benzo(b)fluoranthene	1.1730	1.0395	0.5000	0.4431	ug/mL	-11	20	0.0500	
Benzo(k)fluoranthene	1.2978	1.1636	0.5000	0.4483	ug/mL	-10	20	0.0500	
Benzo(a)pyrene	1.0722	0.8609	0.5000	0.4015	ug/mL	-20	20	0.0500	
Indeno(1,2,3-cd)pyrene	0.8677	1.0040	0.5000	0.5785	ug/mL	16	20	0.0500	
Dibenz(a,h)anthracene	0.7163	0.7978	0.5000	0.5569	ug/mL	11	20	0.0500	
Benzo(g,h,i)perylene	0.8358	0.9452	0.5000	0.5654	ug/mL	13	20	0.0500	
Nitrobenzene-d5	0.2650	0.2671	0.5000	0.5040	ug/mL	1	20	0.0500	m
2-Fluorobiphenyl	1.2319	0.9467	0.5000	0.3843	ug/mL	**-23**	20	0.0500	c-
Terphenyl-d14	1.0077	1.1188	0.5000	0.5551	ug/mL	11	20	0.0500	

Analyst: LLH Date: 03/13/08 Reviewer: AD Date: 03/13/08

-=low bias c=CCV m=manual integration

518102839012.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 201749 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 528101512005.1 File : vca05 Time : 10-MAR-2008 17:43
Cal : 528094338001 Caldate : 05-MAR-2008
Standards: S8088

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0997	1.0874	1.000	0.9888	ug/mL	-1	20	0.0500	
2-Methylnaphthalene	0.7315	0.7254	1.000	0.9916	ug/mL	-1	20	0.0500	
Acenaphthylene	1.6927	1.7004	1.000	1.005	ug/mL	0	20	0.0500	
Acenaphthene	1.1010	1.0937	1.000	0.9934	ug/mL	-1	20	0.0500	
Fluorene	1.3071	1.3341	1.000	1.021	ug/mL	2	20	0.0500	
Phenanthrene	1.1982	1.2013	1.000	1.003	ug/mL	0	20	0.0500	
Anthracene	1.0977	1.1485	1.000	1.046	ug/mL	5	20	0.0500	
Fluoranthene	1.2540	1.3017	1.000	1.038	ug/mL	4	20	0.0500	
Pyrene	1.3848	1.3857	1.000	1.001	ug/mL	0	20	0.0500	
Benzo(a)anthracene	1.1594	1.1996	1.000	1.035	ug/mL	3	20	0.0500	
Chrysene	1.2282	1.2164	1.000	0.9903	ug/mL	-1	20	0.0500	
Benzo(b)fluoranthene	1.3420	1.3855	1.000	1.032	ug/mL	3	20	0.0500	
Benzo(k)fluoranthene	1.3652	1.3258	1.000	0.9711	ug/mL	-3	20	0.0500	
Benzo(a)pyrene	1.1692	1.1633	1.000	0.9949	ug/mL	-1	20	0.0500	
Indeno(1,2,3-cd)pyrene	0.9466	0.8987	1.000	0.9494	ug/mL	-5	20	0.0500	
Dibenz(a,h)anthracene	0.8106	0.7502	1.000	0.9255	ug/mL	-7	20	0.0500	
Benzo(g,h,i)perylene	0.7912	0.7608	1.000	0.9615	ug/mL	-4	20	0.0500	
Nitrobenzene-d5	0.1201	0.1043	1.000	0.8682	ug/mL	-13	20	0.0500	
2-Fluorobiphenyl	1.3222	1.2794	1.000	0.9676	ug/mL	-3	20	0.0500	
Terphenyl-d14	0.9869	0.9637	1.000	0.9765	ug/mL	-2	20	0.0500	

Analyst: LLH Date: 03/13/08 Reviewer: AD Date: 03/13/08

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 518102839

Date : 03/11/08
Sequence : MSBNA02 ucb

Reference : ucb12
Analyzed : 03/11/08 18:28

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	9456	7.88	43948	9.44	21312	11.70	27848	13.65	21958	17.19	18367	19.12
		LOWER LIMIT	4728	7.38	21974	8.94	10656	11.20	13924	13.15	10979	16.69	9184	18.62
		UPPER LIMIT	18912	8.38	87896	9.94	42624	12.20	55696	14.15	43916	17.69	36734	19.62
012	CCV	0.5/2.5UG/ML	9456	7.88	43948	9.44	21312	11.70	27848	13.65	21958	17.19	18367	19.12
013	BLANK	QC432141	10906	7.88	45240	9.44	21003	11.70	27968	13.65	19390	17.19	16092	19.12
014	LCS	QC432142	11156	7.88	46879	9.44	22394	11.70	29376	13.65	23256	17.19	20059	19.12
015	MSS	201740-002	10232	7.88	42686	9.44	20379	11.70	27374	13.65	20686	17.19	20338	19.12
016	MS	QC432143	10233	7.87	42502	9.44	20629	11.70	27735	13.65	21830	17.19	22224	19.12
017	MSD	QC432144	10751	7.86	47121	9.43	22399	11.69	31066	13.65	24184	17.19	24290	19.12
018	SAMPLE	201740-001	10116	7.88	44102	9.44	21623	11.70	29785	13.65	23427	17.19	23161	19.12
019	SAMPLE	201740-003	10472	7.87	44231	9.43	21264	11.69	30312	13.65	24195	17.19	23032	19.12
020	SAMPLE	201740-004	10975	7.87	46950	9.43	22298	11.70	30574	13.65	22915	17.19	17898	19.13
021	SAMPLE	201748-001	10503	7.87	47279	9.43	22333	11.69	30936	13.65	22207	17.19	19810	19.12
022	SAMPLE	201748-002	10094	7.88	44143	9.44	20915	11.70	28507	13.65	21003	17.19	18910	19.12
023	SAMPLE	201772-002	11936	7.87	54976	9.43	27516	11.70	42129	13.65	35912	17.20	27777	19.13
024	SAMPLE	201749-001	11778	7.88	53719	9.44	25991	11.70	35380	13.65	26568	17.19	23428	19.12

00124

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528101512

Date : 03/10/08 Reference : vca05
Sequence : MSBNA03 vca Analyzed : 03/10/08 17:43

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	80062	7.57	260897	9.20	184020	11.51	312946	13.46	300270	16.91	237072	18.64
		LOWER LIMIT	40031	7.07	130449	8.70	92010	11.01	156473	12.96	150135	16.41	118536	18.14
		UPPER LIMIT	160124	8.07	521794	9.70	368040	12.01	625892	13.96	600540	17.41	474144	19.14
005	CCV	1/5UG/ML	80062	7.57	260897	9.20	184020	11.51	312946	13.46	300270	16.91	237072	18.64
006	BLANK	QC431961	80446	7.57	258147	9.20	180474	11.51	329878	13.46	289807	16.91	243968	18.64
007	BS	QC431962	80564	7.57	260146	9.20	186713	11.51	332646	13.46	308858	16.91	260565	18.64
008	BSD	QC431963	85883	7.57	276447	9.20	197368	11.51	351887	13.46	326179	16.91	274756	18.64
009	SAMPLE	201772-001	81231	7.57	270863	9.20	196006	11.51	354970	13.46	301570	16.91	247975	18.64
010	SAMPLE	201772-002	84584	7.57	272816	9.20	196720	11.51	323281	13.46	272356	16.92	252510	18.64
011	SAMPLE	201749-001	127 *	7.58	254 *	9.20	0 *	0.00 *	0 *	0.00 *	0 *	0.00 *	329 *	18.45
012	SAMPLE	201742-003	99699	7.57	329998	9.20	229396	11.51	408881	13.46	349026	16.91	304357	18.64
013	SAMPLE	201676-001	94669	7.57	318572	9.20	221112	11.51	395009	13.46	327843	16.91	288381	18.64
014	SAMPLE	201676-002	83448	7.57	285499	9.20	191935	11.51	329817	13.46	246559	16.91	220332	18.64
015	SAMPLE	201676-003	94687	7.57	320177	9.20	221646	11.51	392502	13.46	321756	16.91	282078	18.64
016	SAMPLE	201676-004	91751	7.57	309512	9.20	213236	11.51	382405	13.46	315739	16.91	275114	18.64
017	SAMPLE	201676-005	94916	7.57	319907	9.20	219301	11.51	396921	13.46	326324	16.91	281080	18.64
018	SAMPLE	201676-006	94184	7.57	309359	9.20	175102	11.51	281293	13.47	261202	16.91	267104	18.64
019	SAMPLE	201676-009	94021	7.57	309608	9.20	216201	11.51	383265	13.46	318562	16.91	287307	18.64
020	SAMPLE	201676-011	82026	7.57	322058	9.20	212262	11.51	372130	13.46	307021	16.91	285772	18.64
021	BLANK	QC432141	88974	7.58	303323	9.20	210066	11.50	377698	13.46	328033	16.91	306284	18.64
022	LCS	QC432142	87356	7.58	299327	9.20	206637	11.51	365245	13.46	331025	16.91	301208	18.64
023	SAMPLE	201802-001	85003	7.57	276648	9.20	186692	11.50	311107	13.46	189788	16.92	167914	18.65

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 518081271

Instrument : MSBNA02 Begun : 02/25/08 10:31
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ubp01	CCV	RT UPDATE			02/25/08 10:31	1.0	1	3:NO2BZD5=12
002	ubp02	CCV	RT CHECK			02/25/08 11:34	1.0	1	3:NO2BZD5=10
003	ubp03	TUN	DFTPP/PEM 50UG/ML			02/25/08 12:10	1.0	2	
004	ubp04	ICAL	0.1/0.5UG/ML			02/25/08 13:11	1.0	3	
005	ubp05	ICAL	0.2/1.0UG/ML			02/25/08 13:48	1.0	4	
006	ubp06	ICAL	0.5/2.5UG/ML			02/25/08 14:26	1.0	5	
007	ubp07	ICAL	1.0/5.0UG/ML			02/25/08 15:00	1.0	6	
008	ubp08	ICAL	2.0/10UG/ML			02/25/08 15:36	1.0	7	
009	ubp09	ICAL	5.0/25UG/ML			02/25/08 16:12	1.0	1	
010	ubp10	ICAL	10/50UG/ML			02/25/08 16:51	1.0	8	
011	ubp11	IB	INSTRUMENT BLANK			02/25/08 17:25	1.0		
012	ubp12	ICAL	0.1/0.5UG/ML			02/25/08 18:00	1.0	9	
013	ubp13	TUN	DFTPP/PEM 50UG/ML			02/25/08 18:48	1.0	2	
014	ubp14	ICV/CCV	1/10 ICV/CCV			02/25/08 19:08	1.0	10	
015	ubp15	BLANK	QC429749	Soil	135194	02/25/08 19:50	1.0	11	
016	ubp16	LCS	QC429750	Soil	135194	02/25/08 20:24	1.0	11	
017	ubp17	SAMPLE	201371-008	Water	135182	02/25/08 21:00	1.0	11	
018	ubp18	SAMPLE	201371-009	Water	135182	02/25/08 21:35	1.0	11	
019	ubp19	SAMPLE	201371-010	Water	135182	02/25/08 22:10	1.0	11	
020	ubp20	SAMPLE	201371-011	Water	135182	02/25/08 22:45	1.0	11	
021	ubp21	SAMPLE	201197-021	Soil	135194	02/25/08 23:21	1.0	11	
022	ubp22	SAMPLE	201400-002	Soil	135194	02/25/08 23:57	1.0	11	
023	ubp23	SAMPLE	201400-003	Soil	135194	02/26/08 00:34	1.0	11	
024	ubp24	SAMPLE	201197-011	Soil	135194	02/26/08 01:10	2.0	11	8:PHAN=43
025	ubp25	SAMPLE	201197-012	Soil	135194	02/26/08 01:47	2.0	11	
026	ubp26	MSS	201197-013	Soil	135194	02/26/08 02:23	1.0	11	6:BZBF=17
027	ubp27	SAMPLE	201197-014	Soil	135194	02/26/08 02:59	1.0	11	6:BZBF=19
028	ubp28	SAMPLE	201197-015	Soil	135194	02/26/08 03:35	5.0	11	5:BZBF=21
029	ubp29	SAMPLE	201197-016	Soil	135194	02/26/08 04:12	5.0	11	
030	ubp30	SAMPLE	201197-017	Soil	135194	02/26/08 04:48	5.0	11	
031	ubp31	SAMPLE	201197-018	Soil	135194	02/26/08 05:24	1.0	11	
032	ubp32	SAMPLE	201197-019	Soil	135194	02/26/08 06:00	10.0	11	7:PYR=34
033	ubp33	SAMPLE	201197-020	Soil	135194	02/26/08 06:37	2.0	11	

AD 02/25/08 : S8084, ran as ubp04 ICAL point was not prepared properly. Use S8142, ubp12.

Standards used: 1=S8090 2=S7771 3=S8084 4=S8085 5=S8087 6=S8088 7=S8089 8=S8091 9=S8142 10=S8092 11=S8083

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 518102839

Instrument : MSBNA02
Method : EPA 8270C, EPA 8270C-SIM
Begun : 03/11/08 09:59
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ucb01	TUN	DFTPP/PEM 50 UG/ML			03/11/08 09:59	1.0	1	
002	ucb02	TUN	DFTPP/PEM 50UG/ML			03/11/08 11:21	1.0	1	
003	ucb03	CCV	0.5/2.5UG/ML			03/11/08 11:47	1.0	2	
004	ucb04	BLANK	QC432141	Soil	135797	03/11/08 12:24	1.0	3	
005	ucb05	LCS	QC432142	Soil	135797	03/11/08 13:00	1.0	3	
006	ucb06	TUN	DFTPP/PEM 50UG/ML			03/11/08 15:06	1.0	1	
007	ucb07	CCV	0.5/2.5UG/ML			03/11/08 15:34	1.0	2	
008	ucb08	BLANK	QC432141	Soil	135797	03/11/08 16:14	1.0	3	
009	ucb09	LCS	QC432142	Soil	135797	03/11/08 16:49	1.0	3	
010	ucb10	TUN	DFTPP/PEM 50UG/ML			03/11/08 17:36	1.0	1	
011	ucb11	TUN	DFTPP/PEM 50UG/ML			03/11/08 18:07	1.0	1	
012	ucb12	CCV	0.5/2.5UG/ML			03/11/08 18:28	1.0	2	
013	ucb13	BLANK	QC432141	Soil	135797	03/11/08 19:23	1.0	3	
014	ucb14	LCS	QC432142	Soil	135797	03/11/08 19:59	1.0	3	
015	ucb15	MSS	201740-002	Soil	135797	03/11/08 20:36	1.0	3	
016	ucb16	MS	QC432143	Soil	135797	03/11/08 21:13	1.0	3	
017	ucb17	MSD	QC432144	Soil	135797	03/11/08 21:50	1.0	3	
018	ucb18	SAMPLE	201740-001	Soil	135797	03/11/08 22:32	1.0	3	
019	ucb19	SAMPLE	201740-003	Soil	135797	03/11/08 23:10	1.0	3	
020	ucb20	SAMPLE	201740-004	Soil	135797	03/11/08 23:47	1.0	3	
021	ucb21	SAMPLE	201748-001	Soil	135797	03/12/08 00:24	1.0	3	
022	ucb22	SAMPLE	201748-002	Soil	135797	03/12/08 01:00	1.0	3	
023	ucb23	SAMPLE	201772-002	Water	135752	03/12/08 01:36	1.0	3	1:MTNPH1=21
024	ucb24	SAMPLE	201749-001	Water	135752	03/12/08 02:12	1.0	3	

Standards used: 1=S7771 2=S8087 3=S8540

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528094338

Instrument : MSBNA03 Begun : 03/05/08 12:18
Method : EPA 8270C, EPA 8270C-SIM, GC/MS SIM SOP Version : 8270-SIM_rv0, OPP

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vc501	TUN	DFTPP/PEM 50UG/ML			03/05/08 12:18	1.0	1	
002	vc502	TUN	DFTPP/PEM 50UG/ML			03/05/08 12:38	1.0	1	
003	vc503	CCV	1UG/ML			03/05/08 12:58	1.0	2	
004	vc504	LCS	QC429255	Soil	135073	03/05/08 13:30	1.0	3	
005	vc505	MS	QC429256	Soil	135073	03/05/08 13:59	1.0	3	
006	vc506	MSD	QC429257	Soil	135073	03/05/08 14:28	1.0	3	
007	vc507	CCV	RT UPDATE 10/50PPM			03/05/08 18:28	1.0	4	2:MTNPH2=4900
008	vc508	CCV	RT CHECK 10/50PPM			03/05/08 19:06	1.0	4	15:ANTH=20000
009	vc509	TUN	DFTPP/PEM 50UG/ML			03/05/08 19:47	1.0	1	
010	vc510	ICAL	0.1/0.5UG/ML			03/05/08 20:11	1.0	5	
011	vc511	ICAL	0.2/1.0UG/ML			03/05/08 20:47	1.0	6	
012	vc512	ICAL	0.5/2.5UG/ML			03/05/08 21:23	1.0	7	
013	vc513	ICAL	1.0/5.0UG/ML			03/05/08 21:58	1.0	8	
014	vc514	ICAL	2.0/10UG/ML			03/05/08 22:32	1.0	9	
015	vc515	ICAL	5.0/25UG/ML			03/05/08 23:07	1.0	4	
016	vc516	ICAL	10/50UG/ML			03/05/08 23:41	1.0	10	
017	vc517	ICV	1.0/10UG/ML			03/06/08 00:16	1.0	11	

Standards used: 1=S7771 2=S8545 3=S8083 4=S8090 5=S8142 6=S8085 7=S8087 8=S8088 9=S8089 10=S8091 11=S8092

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528101512

Instrument : MSBNA03 Begun : 03/10/08 11:52
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vca01	TUN	DFTPP/PEM 50UG/ML			03/10/08 11:52	1.0	1	
002	vca02	TUN	DFTPP/PEM 50UG/ML			03/10/08 15:45	1.0	1	
003	vca03	TUN	DFTPP/PEM 50UG/ML			03/10/08 16:44	1.0	1	
004	vca04	CCV	2/10UG/ML			03/10/08 17:06	1.0	2	1:NO2BZD5=2.2
005	vca05	CCV	1/5UG/ML			03/10/08 17:43	1.0	3	
006	vca06	BLANK	QC431961	Water	135752	03/10/08 18:36	1.0	4	
007	vca07	BS	QC431962	Water	135752	03/10/08 19:10	1.0	4	
008	vca08	BSD	QC431963	Water	135752	03/10/08 19:43	1.0	4	
009	vca09	SAMPLE	201772-001	Water	135752	03/10/08 20:16	1.0	4	
010	vca10	SAMPLE	201772-002	Water	135752	03/10/08 20:50	1.0	4	1:MTNPH1=23
011	vca11	SAMPLE	201749-001	Water	135752	03/10/08 21:25	1.0	4	
012	vca12	SAMPLE	201742-003	Water	135752	03/10/08 22:00	1.0	4	
013	vca13	SAMPLE	201676-001	Water	135752	03/10/08 22:34	1.0	4	
014	vca14	SAMPLE	201676-002	Water	135752	03/10/08 23:06	1.0	4	
015	vca15	SAMPLE	201676-003	Water	135752	03/10/08 23:39	1.0	4	
016	vca16	SAMPLE	201676-004	Water	135752	03/11/08 00:14	1.0	4	
017	vca17	SAMPLE	201676-005	Water	135752	03/11/08 00:48	1.0	4	
018	vca18	SAMPLE	201676-006	Water	135752	03/11/08 01:22	1.0	4	
019	vca19	SAMPLE	201676-009	Water	135752	03/11/08 01:55	1.0	4	
020	vca20	SAMPLE	201676-011	Water	135752	03/11/08 02:28	1.0	4	
021	vca21	BLANK	QC432141	Soil	135797	03/11/08 03:02	1.0	4	
022	vca22	LCS	QC432142	Soil	135797	03/11/08 03:37	1.0	4	
023	vca23	SAMPLE	201802-001	Soil	135797	03/11/08 04:11	10.0	4	

Standards used: 1=S7771 2=S8089 3=S8088 4=S8540

SAMPLE PREPARATION SUMMARY

Batch # : 135752
Started By : DJT
Method : 3520C
Spike #1 ID : S8575

Prep Date : 09-MAR-2008

Spike #2 ID : S8508

Analysis : 14DIOXANE
Finished By : SFH
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
201676-001		Water	1020	1	1	0.0009804	7	1				8270-SIM	See comment 1 below
201676-002		Water	1020	1	1	0.0009804	7	1				8270-SIM	
201676-003		Water	1020	1	1	0.0009804	7	1				8270-SIM	
201676-004		Water	1020	1	1	0.0009804	7	1				8270-SIM	
201676-005		Water	1050	1	1	0.0009524	7	1				8270-SIM	
201676-006		Water	1040	1	1	0.0009615	7	1				8270-SIM	
201676-009		Water	1020	1	1	0.0009804	7	1				8270-SIM	
201676-011		Water	1020	1	1	0.0009804	7	1				8270-SIM	
201742-003		Water	1020	1	1	0.0009804	7	1				14DIOXANE	See comment 1 below
201749-001		Water	1060	1	1	0.0009434	6	1				8270-SIM	
201772-001		Water	1060	1	1	0.0009434	7	1				8270-SIM	
201772-002		Water	1050	1	1	0.0009524	7	1				8270-SIM	
QC431961	BLANK	Water	1000	1	1	0.001		1				8270-SIM	
QC431962	BS	Water	1000	1	1	0.001		1	1			8270-SIM	
QC431963	BSD	Water	1000	1	1	0.001		1	1			8270-SIM	

Comment 1: small spill pouring into L/L, poss loss surr

Analyst: JAJ Date: 03/11/08 Reviewer: LLH Date: 03/13/08

BNA (8270 & 625) Water Prep Log — **Curtis & Tompkins, Ltd.**

Page 24 **BK 2666**

LIMS Analysis: 8270-SIM/14D10X — Extraction Method: — Cleanup Method (if needed):

LIMS Batch No: 135752 — ☒ mod.EPA 3520c cont.L/L — ☐ EPA 3640a GPC

Date Extracted: 3/9/08 — ☐ _____ — ☐ _____

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
201676-001	B	1020	7	1.0		SMALL SPILL POURING INTO L/L POSS LOSS SURR
002						
003						
004						
005		1050				
006		1040				
009		1020				
011						
201742-003	G					SMALL SPILL POURING INTO L/L POSS LESS SURR
201749-001	L	1060	6			
201772-001	F		7			
002		1050				
MB QC431961		1000	NA			
BS 2						
BSD 3						

RFW 3/11/08

	Lot# / LIMS # / Time	Date/ Initials
1.0 mL of surrogate solution was added to all samples	S8575B	DT 3/9/08
1.0 mL of matrix spiking solution was added to all spikes	S8508B	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS073967	
Cont. L/L extracted with 450mL of CH_2Cl_2	EM48028	
Extraction Start Time:	1130	
Extraction End Time:	0700	SFH 3/10/08
pH of all samples adjusted to pH ≥ 11 with 10 N NaOH	NA	
Extraction Start Time:		
Extraction End Time:		
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM47281748	
Concentrated to final volume at temperature (degrees C)	70	
Relinquished to BNA department	✓	

3/9/08
Extraction Chemist / Date

Contined from Page ___
Continued on Page ___

3/11/08
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Metals
Data
(Water)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	201749	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX303RB304	Diln Fac:	1.000
Lab ID:	201749-001	Sampled:	03/06/08
Matrix:	Water	Received:	03/06/08
Units:	ug/L	Prepared:	03/10/08

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	10	1.1	135773	03/11/08	EPA 3010A	EPA 6010B
Arsenic	ND	6.1	2.0	135773	03/11/08	EPA 3010A	EPA 6010B
Barium	0.20 J	5.0	0.11	135773	03/11/08	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	0.042	135773	03/11/08	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	0.11	135773	03/11/08	EPA 3010A	EPA 6010B
Chromium	ND	5.0	0.24	135773	03/11/08	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	0.30	135773	03/11/08	EPA 3010A	EPA 6010B
Copper	ND	5.0	0.85	135773	03/11/08	EPA 3010A	EPA 6010B
Lead	ND	3.0	0.69	135773	03/11/08	EPA 3010A	EPA 6010B
Mercury	ND	0.20	0.045	135774	03/10/08	METHOD	EPA 7470A
Molybdenum	ND	5.0	0.41	135773	03/11/08	EPA 3010A	EPA 6010B
Nickel	ND	5.0	0.37	135773	03/11/08	EPA 3010A	EPA 6010B
Selenium	ND	10	1.5	135773	03/11/08	EPA 3010A	EPA 6010B
Silver	ND	5.0	0.75	135773	03/11/08	EPA 3010A	EPA 6010B
Thallium	ND	10	1.6	135773	03/11/08	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	1.0	135773	03/11/08	EPA 3010A	EPA 6010B
Zinc	0.97 J	20	0.84	135773	03/11/08	EPA 3010A	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC432038	Batch#:	135773
Matrix:	Water	Prepared:	03/10/08
Units:	ug/L	Analyzed:	03/11/08

Analyte	Result	RL	MDL
Antimony	ND	10	1.1
Arsenic	ND	6.1	2.0
Barium	ND	5.0	0.11
Beryllium	0.058 J	2.0	0.042
Cadmium	ND	5.0	0.11
Chromium	1.4 J	5.0	0.24
Cobalt	ND	5.0	0.30
Copper	3.3 J	5.0	0.85
Lead	ND	3.0	0.69
Molybdenum	ND	5.0	0.41
Nickel	0.70 J	5.0	0.37
Selenium	ND	10	1.5
Silver	ND	5.0	0.75
Thallium	ND	10	1.6
Vanadium	1.1 J	5.0	1.0
Zinc	1.1 J	20	0.84

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

3.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	135774
Lab ID:	QC432045	Prepared:	03/10/08
Matrix:	Water	Analyzed:	03/10/08
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.045

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

4.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX303RB304	Batch#:	135773
MSS Lab ID:	201749-001	Sampled:	03/06/08
Matrix:	Water	Received:	03/06/08
Units:	ug/L	Prepared:	03/10/08
Diln Fac:	1.000	Analyzed:	03/11/08

Type: MS Lab ID: QC432041

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<1.074	500.0	454.3	91	80-120
Arsenic	<2.042	100.0	96.83	97	80-120
Barium	0.2050	2,000	1,898	95	80-120
Beryllium	<0.04231	50.00	50.65	101	80-120
Cadmium	<0.1091	50.00	48.95	98	80-120
Chromium	<0.2448	200.0	186.2	93	80-120
Cobalt	<0.3034	500.0	454.9	91	80-120
Copper	<0.8535	250.0	231.7	93	80-120
Lead	<0.6892	100.0	92.49	92	80-120
Molybdenum	<0.4140	400.0	398.0	100	80-120
Nickel	<0.3660	500.0	465.3	93	80-120
Selenium	<1.469	100.0	93.85	94	80-120
Silver	<0.7459	50.00	45.24	90	80-120
Thallium	<1.616	100.0	96.90	97	80-120
Vanadium	<1.034	500.0	462.0	92	80-120
Zinc	0.9673	500.0	472.5	94	80-120

Type: MSD Lab ID: QC432042

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	451.3	90	80-120	1	20
Arsenic	100.0	96.23	96	80-120	1	20
Barium	2,000	1,883	94	80-120	1	20
Beryllium	50.00	50.18	100	80-120	1	20
Cadmium	50.00	48.27	97	80-120	1	20
Chromium	200.0	183.8	92	80-120	1	20
Cobalt	500.0	448.2	90	80-120	1	20
Copper	250.0	228.6	91	80-120	1	20
Lead	100.0	91.47	91	80-120	1	20
Molybdenum	400.0	395.1	99	80-120	1	20
Nickel	500.0	459.7	92	80-120	1	20
Selenium	100.0	93.49	93	80-120	0	20
Silver	50.00	44.02	88	80-120	3	20
Thallium	100.0	96.32	96	80-120	1	20
Vanadium	500.0	457.1	91	80-120	1	20
Zinc	500.0	467.8	93	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	135774
Field ID:	ZZZZZZZZZZ	Sampled:	02/27/08
MSS Lab ID:	201606-018	Received:	02/29/08
Matrix:	Water	Prepared:	03/10/08
Units:	ug/L	Analyzed:	03/10/08
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC432049	1.320	5.000	5.320	80	80-120		
MSD	QC432050		5.000	5.420	82	80-120	2	20

RPD= Relative Percent Difference

10.0

00137

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	135773
Units:	ug/L	Prepared:	03/10/08
Diln Fac:	1.000	Analyzed:	03/11/08

Type: BS Lab ID: QC432039

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	442.8	89	80-120
Arsenic	100.0	93.86	94	80-120
Barium	2,000	1,878	94	80-120
Beryllium	50.00	50.23	100	80-120
Cadmium	50.00	48.22	96	80-120
Chromium	200.0	183.6	92	80-120
Cobalt	500.0	445.7	89	80-120
Copper	250.0	230.2	92	80-120
Lead	100.0	91.43	91	80-120
Molybdenum	400.0	389.9	97	80-120
Nickel	500.0	460.2	92	80-120
Selenium	100.0	93.35	93	80-120
Silver	50.00	44.15	88	80-120
Thallium	100.0	93.65	94	80-120
Vanadium	500.0	456.3	91	80-120
Zinc	500.0	468.5	94	80-120

Type: BSD Lab ID: QC432040

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	465.4	93	80-120	5	20
Arsenic	100.0	96.25	96	80-120	3	20
Barium	2,000	1,921	96	80-120	2	20
Beryllium	50.00	51.39	103	80-120	2	20
Cadmium	50.00	49.27	99	80-120	2	20
Chromium	200.0	187.5	94	80-120	2	20
Cobalt	500.0	455.7	91	80-120	2	20
Copper	250.0	233.3	93	80-120	1	20
Lead	100.0	93.14	93	80-120	2	20
Molybdenum	400.0	399.4	100	80-120	2	20
Nickel	500.0	470.5	94	80-120	2	20
Selenium	100.0	93.37	93	80-120	0	20
Silver	50.00	45.74	91	80-120	4	20
Thallium	100.0	97.34	97	80-120	4	20
Vanadium	500.0	465.8	93	80-120	2	20
Zinc	500.0	477.1	95	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	135774
Matrix:	Water	Prepared:	03/10/08
Units:	ug/L	Analyzed:	03/10/08
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC432046	5.000	4.460	89	80-120		
BSD	QC432047	5.000	4.580	92	80-120	3	20

RPD= Relative Percent Difference

8.0

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 201749 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN	
201749-001	MET14	03/10/08 17:02	1.0										+								
201749-001	MET09	03/11/08 00:34	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC432038	MET09	03/11/08 00:23	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC432039	MET09	03/11/08 00:28	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC432040	MET09	03/11/08 00:31	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC432041	MET09	03/11/08 00:38	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC432042	MET09	03/11/08 00:42	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC432043	MET09	03/11/08 00:45	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC432044	MET09	03/11/08 00:49	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC432045	MET14	03/10/08 15:55	1.0										+								
QC432046	MET14	03/10/08 15:57	1.0										+								
QC432047	MET14	03/10/08 15:59	1.0										+								
QC432048	MET14	03/10/08 17:13	5.0										+								
QC432049	MET14	03/10/08 16:07	1.0										+								
QC432050	MET14	03/10/08 16:09	1.0										+								

: 00140

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98102159 Instrument: MET09 PE ICP MET09 Begun: 10-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	031008ar	ICALBLK				10-MAR-2008 22:39	1.0	1.0				
002	031008ar	ICAL	CRIM08			10-MAR-2008 22:43	1.0	1.0			1	
003	031008ar	ICAL	CS100			10-MAR-2008 22:47	1.0	1.0			2	
004	031008ar	ICAL	CS1K			10-MAR-2008 22:50	1.0	1.0			3	
005	031008ar	ICAL	CS10K			10-MAR-2008 22:53	1.0	1.0			4	
006	031008ar	ICAL	CS100K			10-MAR-2008 22:58	1.0	1.0			5	
007	031008ar	ICV				10-MAR-2008 23:02	1.0	1.0		5000	6	
008	031008ar	ICB				10-MAR-2008 23:07	1.0	1.0		5000		
009	031008ar	ICSA				10-MAR-2008 23:11	1.0	1.0	1	5000	7	10:CA=476852
010	031008ar	ICSAB				11-MAR-2008 00:19	1.0	1.0		5000	8	5:AL=477868
011	031008ar	BLANK	QC432038	135773	Water	11-MAR-2008 00:23	1.0	1.0	2	5000		
012	031008ar	BS	QC432039	135773	Water	11-MAR-2008 00:28	1.0	1.0	1	5000		
013	031008ar	BSD	QC432040	135773	Water	11-MAR-2008 00:31	1.0	1.0	1	5000		
014	031008ar	MSS	201749-001	135773	Water	11-MAR-2008 00:34	1.0	1.0	1	5000		
015	031008ar	MS	QC432041	135773	Water	11-MAR-2008 00:38	1.0	1.0		5000		
016	031008ar	MSD	QC432042	135773	Water	11-MAR-2008 00:42	1.0	1.0		5000		
017	031008ar	SER	QC432043	135773	Water	11-MAR-2008 00:45	5.0	1.0		5000		
018	031008ar	PDS	QC432044	135773	Water	11-MAR-2008 00:49	1.0	1.0	1	5000	9 10	
019	031008ar	CCV				11-MAR-2008 00:53	1.0	1.0		5000	11	
020	031008ar	CCB				11-MAR-2008 00:57	1.0	1.0		5000		
021	031008ar	SAMPLE	201686-001	135773	Water	11-MAR-2008 01:01	1.0	1.0	2	5000		1:CA=590058
022	031008ar	SAMPLE	201686-002	135773	Water	11-MAR-2008 01:06	1.0	1.0	2	5000		1:CA=712011
023	031008ar	SAMPLE	201686-003	135773	Water	11-MAR-2008 01:10	1.0	1.0	2	5000		2:CA=455993
024	031008ar	SAMPLE	201686-004	135773	Water	11-MAR-2008 01:14	1.0	1.0	2	5000		2:NA=448065
025	031008ar	SAMPLE	201691-001	135773	Water	11-MAR-2008 01:19	1.0	1.0	2	5000		1:CA=702411
026	031008ar	SAMPLE	201691-002	135773	Water	11-MAR-2008 01:23	1.0	1.0	2	5000		1:CA=494804
027	031008ar	SAMPLE	201691-003	135773	Water	11-MAR-2008 01:27	1.0	1.0	3	5000		2:CA=385783
028	031008ar	SAMPLE	201770-001	135773	Water	11-MAR-2008 01:32	1.0	1.0		5000		
029	031008ar	SAMPLE	201774-001	135773	Water	11-MAR-2008 01:36	1.0	1.0		5000		3:MG=472062
030	031008ar	SAMPLE	201774-004	135773	Water	11-MAR-2008 01:41	1.0	1.0		5000		4:MG=747805
031	031008ar	CCV				11-MAR-2008 01:47	1.0	1.0	1	5000	11	

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8252 8=S8351 9=S6920 10=S6921 11=S8614

Analyst: _____ Date: 3/14/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98102159 Instrument: MET09 PE ICP MET09 Begun: 10-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	031008ar	X				11-MAR-2008 01:48	1.0	1.0	2	5000	11	
033	031008ar	X				11-MAR-2008 01:52	1.0	1.0	3	5000		
034	031008ar	CCB				11-MAR-2008 01:55	1.0	1.0		5000		
035	031008ar	SAMPLE	201779-002	135773	Filtra	11-MAR-2008 02:00	1.0	1.0		5000		
036	031008ar	SAMPLE	201785-001	135773	Water	11-MAR-2008 02:04	1.0	1.0		5000		1:NA=101343
037	031008ar	SAMPLE	201785-002	135773	Water	11-MAR-2008 02:08	1.0	1.0		5000		
038	031008ar	SAMPLE	201785-003	135773	Water	11-MAR-2008 02:12	1.0	1.0	2	5000		4:MG=1256846
039	031008ar	SAMPLE	201785-004	135773	Water	11-MAR-2008 02:18	1.0	1.0		5000		1:NA=457100
040	031008ar	ICSAB				11-MAR-2008 02:22	1.0	1.0		5000	8	5:AL=496993
041	031008ar	CCV				11-MAR-2008 02:27	1.0	1.0		5000	11	
042	031008ar	X				11-MAR-2008 02:31	1.0	1.0	5	5000		
043	031008ar	CCB				11-MAR-2008 02:34	1.0	1.0		5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8252 8=S8351 9=S6920 10=S6921 11=S8614

Analyst: _____ Date: 3/11/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98102159 Instrument: MET09 PE ICP MET09 Begun: 10-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	031008ar	ICALBLK				10-MAR-2008 22:39	1.0	1.0				
002	031008ar	ICAL	CRIM08			10-MAR-2008 22:43	1.0	1.0			1	
003	031008ar	ICAL	CS100			10-MAR-2008 22:47	1.0	1.0			2	
004	031008ar	ICAL	CS1K			10-MAR-2008 22:50	1.0	1.0			3	
005	031008ar	ICAL	CS10K			10-MAR-2008 22:53	1.0	1.0			4	
006	031008ar	ICAL	CS100K			10-MAR-2008 22:58	1.0	1.0			5	
007	031008ar	ICV				10-MAR-2008 23:02	1.0	1.0		5000	6	
008	031008ar	ICB				10-MAR-2008 23:07	1.0	1.0		5000		
009	031008ar	ICSA				10-MAR-2008 23:11	1.0	1.0	1	5000	7	10:CA=476852
010	031008ar	ICSAB				11-MAR-2008 00:19	1.0	1.0		5000	8	5:AL=477868
011	031008ar	BLANK	QC432038	135773	Water	11-MAR-2008 00:23	1.0	1.0	2	5000		
012	031008ar	BS	QC432039	135773	Water	11-MAR-2008 00:28	1.0	1.0	1	5000		
013	031008ar	BSD	QC432040	135773	Water	11-MAR-2008 00:31	1.0	1.0	1	5000		
014	031008ar	MSS	201749-001	135773	Water	11-MAR-2008 00:34	1.0	1.0	1	5000		
015	031008ar	MS	QC432041	135773	Water	11-MAR-2008 00:38	1.0	1.0		5000		
016	031008ar	MSD	QC432042	135773	Water	11-MAR-2008 00:42	1.0	1.0		5000		
017	031008ar	SER	QC432043	135773	Water	11-MAR-2008 00:45	5.0	1.0		5000		
018	031008ar	PDS	QC432044	135773	Water	11-MAR-2008 00:49	1.0	1.0	1	5000	9 10	
019	031008ar	CCV				11-MAR-2008 00:53	1.0	1.0		5000	11	
020	031008ar	CCB				11-MAR-2008 00:57	1.0	1.0		5000		
021	031008ar	SAMPLE	201686-001	135773	Water	11-MAR-2008 01:01	1.0	1.0	2	5000		1:CA=590058
022	031008ar	SAMPLE	201686-002	135773	Water	11-MAR-2008 01:06	1.0	1.0	2	5000		1:CA=712011
023	031008ar	SAMPLE	201686-003	135773	Water	11-MAR-2008 01:10	1.0	1.0	2	5000		2:CA=455993
024	031008ar	SAMPLE	201686-004	135773	Water	11-MAR-2008 01:14	1.0	1.0	2	5000		2:NA=448065
025	031008ar	SAMPLE	201691-001	135773	Water	11-MAR-2008 01:19	1.0	1.0	2	5000		1:CA=702411
026	031008ar	SAMPLE	201691-002	135773	Water	11-MAR-2008 01:23	1.0	1.0	2	5000		1:CA=494804
027	031008ar	SAMPLE	201691-003	135773	Water	11-MAR-2008 01:27	1.0	1.0	3	5000		2:CA=385783
028	031008ar	SAMPLE	201770-001	135773	Water	11-MAR-2008 01:32	1.0	1.0		5000		
029	031008ar	SAMPLE	201774-001	135773	Water	11-MAR-2008 01:36	1.0	1.0		5000		3:MG=472062
030	031008ar	SAMPLE	201774-004	135773	Water	11-MAR-2008 01:41	1.0	1.0		5000		4:MG=747805
031	031008ar	CCV				11-MAR-2008 01:47	1.0	1.0	1	5000	11	

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8252 8=S8351 9=S6920 10=S6921 11=S8614

Analyst: _____ Date: 3/14/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98102159 Instrument: MET09 PE ICP MET09 Begun: 10-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	031008ar	ICALBLK				10-MAR-2008 22:39	1.0	1.0				
002	031008ar	ICAL	CRIM08			10-MAR-2008 22:43	1.0	1.0			1	
003	031008ar	ICAL	CS100			10-MAR-2008 22:47	1.0	1.0			2	
004	031008ar	ICAL	CS1K			10-MAR-2008 22:50	1.0	1.0			3	
005	031008ar	ICAL	CS10K			10-MAR-2008 22:53	1.0	1.0			4	
006	031008ar	ICAL	CS100K			10-MAR-2008 22:58	1.0	1.0			5	
007	031008ar	ICV				10-MAR-2008 23:02	1.0	1.0		5000	6	
008	031008ar	ICB				10-MAR-2008 23:07	1.0	1.0		5000		
009	031008ar	ICSA				10-MAR-2008 23:11	1.0	1.0	1	5000	7	10:CA=476852
010	031008ar	ICSAB				11-MAR-2008 00:19	1.0	1.0		5000	8	5:AL=477868
011	031008ar	BLANK	QC432038	135773	Water	11-MAR-2008 00:23	1.0	1.0	2	5000		
012	031008ar	BS	QC432039	135773	Water	11-MAR-2008 00:28	1.0	1.0	1	5000		
013	031008ar	BSD	QC432040	135773	Water	11-MAR-2008 00:31	1.0	1.0	1	5000		
014	031008ar	MSS	201749-001	135773	Water	11-MAR-2008 00:34	1.0	1.0	1	5000		
015	031008ar	MS	QC432041	135773	Water	11-MAR-2008 00:38	1.0	1.0		5000		
016	031008ar	MSD	QC432042	135773	Water	11-MAR-2008 00:42	1.0	1.0		5000		
017	031008ar	SER	QC432043	135773	Water	11-MAR-2008 00:45	5.0	1.0		5000		
018	031008ar	PDS	QC432044	135773	Water	11-MAR-2008 00:49	1.0	1.0	1	5000	9 10	
019	031008ar	CCV				11-MAR-2008 00:53	1.0	1.0		5000	11	
020	031008ar	CCB				11-MAR-2008 00:57	1.0	1.0		5000		
021	031008ar	SAMPLE	201686-001	135773	Water	11-MAR-2008 01:01	1.0	1.0	2	5000		1:CA=590058
022	031008ar	SAMPLE	201686-002	135773	Water	11-MAR-2008 01:06	1.0	1.0	2	5000		1:CA=712011
023	031008ar	SAMPLE	201686-003	135773	Water	11-MAR-2008 01:10	1.0	1.0	2	5000		2:CA=455993
024	031008ar	SAMPLE	201686-004	135773	Water	11-MAR-2008 01:14	1.0	1.0	2	5000		2:NA=448065
025	031008ar	SAMPLE	201691-001	135773	Water	11-MAR-2008 01:19	1.0	1.0	2	5000		1:CA=702411
026	031008ar	SAMPLE	201691-002	135773	Water	11-MAR-2008 01:23	1.0	1.0	2	5000		1:CA=494804
027	031008ar	SAMPLE	201691-003	135773	Water	11-MAR-2008 01:27	1.0	1.0	3	5000		2:CA=385783
028	031008ar	SAMPLE	201770-001	135773	Water	11-MAR-2008 01:32	1.0	1.0		5000		
029	031008ar	SAMPLE	201774-001	135773	Water	11-MAR-2008 01:36	1.0	1.0		5000		3:MG=472062
030	031008ar	SAMPLE	201774-004	135773	Water	11-MAR-2008 01:41	1.0	1.0		5000		4:MG=747805
031	031008ar	CCV				11-MAR-2008 01:47	1.0	1.0	1	5000	11	

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8252 8=S8351 9=S6920 10=S6921 11=S8614

Analyst: _____ Date: 3/14/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98102159 Instrument: MET09 PE ICP MET09 Begun: 10-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	031008ar	X				11-MAR-2008 01:48	1.0	1.0	2	5000	11	
033	031008ar	X				11-MAR-2008 01:52	1.0	1.0	3	5000		
034	031008ar	CCB				11-MAR-2008 01:55	1.0	1.0		5000		
035	031008ar	SAMPLE	201779-002	135773	Filtra	11-MAR-2008 02:00	1.0	1.0		5000		
036	031008ar	SAMPLE	201785-001	135773	Water	11-MAR-2008 02:04	1.0	1.0		5000		1:NA=101343
037	031008ar	SAMPLE	201785-002	135773	Water	11-MAR-2008 02:08	1.0	1.0		5000		
038	031008ar	SAMPLE	201785-003	135773	Water	11-MAR-2008 02:12	1.0	1.0	2	5000		4:MG=1256846
039	031008ar	SAMPLE	201785-004	135773	Water	11-MAR-2008 02:18	1.0	1.0		5000		1:NA=457100
040	031008ar	ICSAB				11-MAR-2008 02:22	1.0	1.0		5000	8	5:AL=496993
041	031008ar	CCV				11-MAR-2008 02:27	1.0	1.0		5000	11	
042	031008ar	X				11-MAR-2008 02:31	1.0	1.0	5	5000		
043	031008ar	CCB				11-MAR-2008 02:34	1.0	1.0		5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8252 8=S8351 9=S6920 10=S6921 11=S8614

Analyst: _____ Date: 3/11/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98102159 Instrument: MET09 PE ICP MET09 Begun: 10-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	031008ar	X				11-MAR-2008 01:48	1.0	1.0	2	5000	11	
033	031008ar	X				11-MAR-2008 01:52	1.0	1.0	3	5000		
034	031008ar	CCB				11-MAR-2008 01:55	1.0	1.0		5000		
035	031008ar	SAMPLE	201779-002	135773	Filtra	11-MAR-2008 02:00	1.0	1.0		5000		
036	031008ar	SAMPLE	201785-001	135773	Water	11-MAR-2008 02:04	1.0	1.0		5000		1:NA=101343
037	031008ar	SAMPLE	201785-002	135773	Water	11-MAR-2008 02:08	1.0	1.0		5000		
038	031008ar	SAMPLE	201785-003	135773	Water	11-MAR-2008 02:12	1.0	1.0	2	5000		4:MG=1256846
039	031008ar	SAMPLE	201785-004	135773	Water	11-MAR-2008 02:18	1.0	1.0		5000		1:NA=457100
040	031008ar	ICSAB				11-MAR-2008 02:22	1.0	1.0		5000	8	5:AL=496993
041	031008ar	CCV				11-MAR-2008 02:27	1.0	1.0		5000	11	
042	031008ar	X				11-MAR-2008 02:31	1.0	1.0	5	5000		
043	031008ar	CCB				11-MAR-2008 02:34	1.0	1.0		5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8252 8=S8351 9=S6920 10=S6921 11=S8614

Analyst: _____ Date: 3/11/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 98102159001
Units : ug/L

Reviewer : ---
Date : 10-MAR-2008 22:39
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	031008ar	98102159002	CRIM08	10-MAR-2008 22:43	S8428
L2	031008ar	98102159003	CS100	10-MAR-2008 22:47	S8350
L3	031008ar	98102159004	CS1K	10-MAR-2008 22:50	S8349
L4	031008ar	98102159005	CS10K	10-MAR-2008 22:53	S8393
L5	031008ar	98102159006	CS100K	10-MAR-2008 22:58	S8370

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	18.639	30.450	30.989	32.470		LOR0	0.00000	0.03081		28.137	1.000	0.995	
Arsenic	A	10.272	11.498	11.257	11.709		LOR0	0.00000	0.08544		11.184	1.000	0.995	
Barium	A	93.551	106.26	103.63	104.30		LOR0	0.00000	0.00959		101.94	1.000	0.995	
Beryllium	A	4064.4	4356.5	4346.2			LOR0	0.00000	2.30E-4		4255.7	1.000	0.995	
Boron	A	197.72		207.42	221.92		LOR0	0.00000	0.00451		209.02	1.000	0.995	
Cadmium	A	219.24	250.63	249.29	250.17		LOR0	0.00000	0.00400		242.33	1.000	0.995	
Chromium	A	165.71	193.39	191.34	195.29		LOR0	0.00000	0.00512		186.43	1.000	0.995	
Cobalt	A	49.440	58.492	58.566	59.531		LOR0	0.00000	0.01680		56.507	1.000	0.995	
Copper	A	142.77	176.12	176.38	178.95		LOR0	0.00000	0.00559		168.55	1.000	0.995	
Lead	A	44.699	62.682	61.373	61.210		LOR0	0.00000	0.01634		57.491	1.000	0.995	
Manganese	A	482.21	620.10	610.88	601.73		LOR0	0.00000	0.00166		578.73	1.000	0.995	
Molybdenum	A	38.909	46.856	45.116	45.620		LOR0	0.00000	0.02192		44.125	1.000	0.995	
Nickel	A	88.492	101.05	100.38	103.07		LOR0	0.00000	0.00970		98.248	1.000	0.995	
Selenium	A	15.163	15.543	15.822	16.572		LOR0	0.00000	0.06037		15.775	1.000	0.995	
Silver	A	507.18	554.53	558.25	588.08		LOR0	0.00000	0.00172		552.01	0.999	0.995	
Thallium	A	12.452	13.005	12.762	12.778		LOR0	0.00000	0.07826		12.749	1.000	0.995	
Tin	A	22.109	22.872	22.724	24.540		LOR0	0.00000	0.04078		23.061	1.000	0.995	
Titanium	A	615.19	790.81	788.75	781.47		LOR0	0.00000	0.00128		744.06	1.000	0.995	
Vanadium	A	183.39	214.15	215.82	226.44		LOR0	0.00000	0.00442		209.95	1.000	0.995	
Zinc	A	121.33	90.935	85.174	88.762		LOR0	0.00000	0.01127		96.551	1.000	0.995	
Aluminum	R	0.3515		0.5429	0.5777	0.5892	LOR0	0.00000	1.69754		0.5153	1.000	0.995	
Calcium	R	7.1264		6.0311	6.2682	6.1787	LOR0	0.00000	0.16182		6.4011	1.000	0.995	
Iron	R	2.1184		3.0275	3.1652	3.1373	LOR0	0.00000	0.31872		2.8621	1.000	0.995	
Magnesium	R	0.5904		0.6593	0.7004	0.6884	LOR0	0.00000	1.45236		0.6596	1.000	0.995	
Potassium	R	2.6295		2.7946	2.8247	2.9627	LOR0	0.00000	0.33769		2.8029	1.000	0.995	
Sodium	R	302.07		314.20	307.08	305.81	LOR0	0.00000	0.00327		307.29	1.000	0.995	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 98102159001
Units : ug/L

Reviewer : ---
Date : 10-MAR-2008 22:39
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	031008ar	98102159002	CRIM08	10-MAR-2008 22:43	S8428
L2	031008ar	98102159003	CS100	10-MAR-2008 22:47	S8350
L3	031008ar	98102159004	CS1K	10-MAR-2008 22:50	S8349
L4	031008ar	98102159005	CS10K	10-MAR-2008 22:53	S8393
L5	031008ar	98102159006	CS100K	10-MAR-2008 22:58	S8370

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	18.639	30.450	30.989	32.470		LOR0	0.00000	0.03081		28.137	1.000	0.995	
Arsenic	A	10.272	11.498	11.257	11.709		LOR0	0.00000	0.08544		11.184	1.000	0.995	
Barium	A	93.551	106.26	103.63	104.30		LOR0	0.00000	0.00959		101.94	1.000	0.995	
Beryllium	A	4064.4	4356.5	4346.2			LOR0	0.00000	2.30E-4		4255.7	1.000	0.995	
Boron	A	197.72		207.42	221.92		LOR0	0.00000	0.00451		209.02	1.000	0.995	
Cadmium	A	219.24	250.63	249.29	250.17		LOR0	0.00000	0.00400		242.33	1.000	0.995	
Chromium	A	165.71	193.39	191.34	195.29		LOR0	0.00000	0.00512		186.43	1.000	0.995	
Cobalt	A	49.440	58.492	58.566	59.531		LOR0	0.00000	0.01680		56.507	1.000	0.995	
Copper	A	142.77	176.12	176.38	178.95		LOR0	0.00000	0.00559		168.55	1.000	0.995	
Lead	A	44.699	62.682	61.373	61.210		LOR0	0.00000	0.01634		57.491	1.000	0.995	
Manganese	A	482.21	620.10	610.88	601.73		LOR0	0.00000	0.00166		578.73	1.000	0.995	
Molybdenum	A	38.909	46.856	45.116	45.620		LOR0	0.00000	0.02192		44.125	1.000	0.995	
Nickel	A	88.492	101.05	100.38	103.07		LOR0	0.00000	0.00970		98.248	1.000	0.995	
Selenium	A	15.163	15.543	15.822	16.572		LOR0	0.00000	0.06037		15.775	1.000	0.995	
Silver	A	507.18	554.53	558.25	588.08		LOR0	0.00000	0.00172		552.01	0.999	0.995	
Thallium	A	12.452	13.005	12.762	12.778		LOR0	0.00000	0.07826		12.749	1.000	0.995	
Tin	A	22.109	22.872	22.724	24.540		LOR0	0.00000	0.04078		23.061	1.000	0.995	
Titanium	A	615.19	790.81	788.75	781.47		LOR0	0.00000	0.00128		744.06	1.000	0.995	
Vanadium	A	183.39	214.15	215.82	226.44		LOR0	0.00000	0.00442		209.95	1.000	0.995	
Zinc	A	121.33	90.935	85.174	88.762		LOR0	0.00000	0.01127		96.551	1.000	0.995	
Aluminum	R	0.3515		0.5429	0.5777	0.5892	LOR0	0.00000	1.69754		0.5153	1.000	0.995	
Calcium	R	7.1264		6.0311	6.2682	6.1787	LOR0	0.00000	0.16182		6.4011	1.000	0.995	
Iron	R	2.1184		3.0275	3.1652	3.1373	LOR0	0.00000	0.31872		2.8621	1.000	0.995	
Magnesium	R	0.5904		0.6593	0.7004	0.6884	LOR0	0.00000	1.45236		0.6596	1.000	0.995	
Potassium	R	2.6295		2.7946	2.8247	2.9627	LOR0	0.00000	0.33769		2.8029	1.000	0.995	
Sodium	R	302.07		314.20	307.08	305.81	LOR0	0.00000	0.00327		307.29	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	-43	100.0	-6	1000	-5	10000	0		
Arsenic	A	5.000	-12	100.0	-2	1000	-4	10000	0		
Barium	A	5.000	-10	100.0	2	1000	-1	10000	0		
Beryllium	A	2.000	-6	100.0	0	1000	0				
Boron	A	100.0	-11			1000	-6	10000	0		
Cadmium	A	5.000	-12	100.0	0	1000	0	10000	0		
Chromium	A	5.000	-15	100.0	-1	1000	-2	10000	0		
Cobalt	A	5.000	-17	100.0	-2	1000	-2	10000	0		
Copper	A	5.000	-20	100.0	-2	1000	-1	10000	0		
Lead	A	3.000	-27	100.0	2	1000	0	10000	0		
Manganese	A	5.000	-20	100.0	3	1000	2	10000	0		
Molybdenum	A	5.000	-15	100.0	3	1000	-1	10000	0		
Nickel	A	5.000	-14	100.0	-2	1000	-3	10000	0		
Selenium	A	5.000	-8	100.0	-6	1000	-4	10000	0		
Silver	A	5.000	-13	100.0	-5	1000	-4	2000	1		
Thallium	A	5.000	-3	100.0	2	1000	0	10000	0		
Tin	A	40.00	-10	100.0	-7	1000	-7	10000	0		
Titanium	A	10.00	-21	100.0	1	1000	1	10000	0		
Vanadium	A	5.000	-19	100.0	-5	1000	-5	10000	0		
Zinc	A	20.00	37	100.0	2	1000	-4	10000	0		
Aluminum	R	100.0	-40			1000	-8	10000	-2	100000	0
Calcium	R	200.0	15			1000	-2	10000	1	100000	0
Iron	R	100.0	-32			1000	-4	10000	1	100000	0
Magnesium	R	200.0	-14			1000	-4	10000	2	100000	0
Potassium	R	500.0	-11			1000	-6	10000	-5	100000	0
Sodium	R	500.0	-1			1000	3	10000	0	100000	0

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 3/10/2008 10:39:22 PM
Data Type: Reprocessed on 3/10/2008 11:32:08 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	144.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1845.8	383.27	20.76%	[0.00]	ug/L
Al 308.215 R	93.6	2.05	2.19%	[0.00]	ug/L
As 188.979	-17.9	15.82	88.37%	[0.00]	ug/L
B 249.677	2842.5	131.23	4.62%	[0.00]	ug/L
Ba 233.527	55.2	4.62	8.37%	[0.00]	ug/L
Be 313.107	714.5	95.54	13.37%	[0.00]	ug/L
Ca 315.887 R	828.3	44.29	5.35%	[0.00]	ug/L
Cd 214.440	146.9	8.07	5.50%	[0.00]	ug/L
Co 228.616	34.5	3.60	10.44%	[0.00]	ug/L
Cr 267.716	-28.1	34.56	122.86%	[0.00]	ug/L
Cu 324.752	2852.7	70.23	2.46%	[0.00]	ug/L
Fe 238.204 R	91.7	7.19	7.84%	[0.00]	ug/L
K 766.490 R	-533.9	111.13	20.82%	[0.00]	ug/L
Mg 279.077 R	-173.7	7.78	4.48%	[0.00]	ug/L
Mn 257.610	109.1	26.17	24.00%	[0.00]	ug/L
Mo 202.031	58.8	3.54	6.02%	[0.00]	ug/L
Na 589.592 R	96235.1	3455.16	3.59%	[0.00]	ug/L
Ni 231.604	915.5	14.81	1.62%	[0.00]	ug/L
Pb 220.353	-261.3	47.33	18.11%	[0.00]	ug/L
Sb 206.836	485.8	107.02	22.03%	[0.00]	ug/L
Se 196.026	70.6	9.97	14.13%	[0.00]	ug/L
Ti 334.940 R	2682.6	135.80	5.06%	[0.00]	ug/L
Tl 190.801	38.2	8.13	21.27%	[0.00]	ug/L
V 292.402	-1204.9	49.10	4.07%	[0.00]	ug/L
Zn 206.200	23.3	1.71	7.34%	[0.00]	ug/L
Sn 189.927	18.5	8.40	45.47%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/10/2008 10:43:32 PM
Data Type: Reprocessed on 3/10/2008 11:32:10 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	144.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3093915.8	45274.61	1.46%	100.000	%
Y	185988.3	16899.95	9.09%	100.000	%
Ag 328.068†	2535.9	125.14	4.93%	[5.0]	ug/L
Al 308.215 Rt	35.1	14.66	41.73%	[100]	ug/L
As 188.979†	51.4	7.26	14.13%	[5.0]	ug/L
B 249.677†	19772.0	331.76	1.68%	[100]	ug/L
Ba 233.527†	467.8	15.83	3.38%	[5.0]	ug/L
Be 313.107†	8128.8	82.23	1.01%	[2.0]	ug/L
Ca 315.887 Rt	1425.3	255.79	17.95%	[200]	ug/L
Cd 214.440†	1096.2	37.08	3.38%	[5.0]	ug/L
Co 228.616†	247.2	15.71	6.35%	[5.0]	ug/L
Cr 267.716†	828.5	42.86	5.17%	[5.0]	ug/L
Cu 324.752†	713.8	42.09	5.90%	[5.0]	ug/L
Fe 238.204 Rt	211.8	34.94	16.49%	[100]	ug/L
K 766.490 Rt	1314.7	118.94	9.05%	[500]	ug/L
Mg 279.077 Rt	118.1	3.13	2.65%	[200]	ug/L
Mn 257.610†	2411.0	82.22	3.41%	[5.0]	ug/L
Mo 202.031†	194.5	5.07	2.61%	[5.0]	ug/L
Na 589.592 Rt	151034.9	24524.68	16.24%	[500]	ug/L
Ni 231.604†	442.5	28.11	6.35%	[5.0]	ug/L
Pb 220.353†	134.1	6.73	5.02%	[3.0]	ug/L
Sb 206.836†	93.2	42.07	45.15%	[5.0]	ug/L
Se 196.026†	75.8	21.27	28.05%	[5.0]	ug/L
Ti 334.940 Rt	6151.9	290.25	4.72%	[10]	ug/L
Tl 190.801†	62.3	2.36	3.80%	[5.0]	ug/L
V 292.402†	916.9	98.91	10.79%	[5.0]	ug/L
Zn 206.200†	2426.6	45.46	1.87%	[20]	ug/L
Sn 189.927†	884.4	12.58	1.42%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/10/2008 10:47:47 PM
Data Type: Reprocessed on 3/10/2008 11:32:11 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	144.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2981046.0	123137.98	4.13%	96.3519	%
Y	172612.5	4663.69	2.70%	92.8083	%
Ag 328.068†	55453.5	2948.26	5.32%	[100]	ug/L
As 188.979†	1149.8	60.82	5.29%	[100]	ug/L
Ba 233.527†	10626.2	457.36	4.30%	[100]	ug/L
Be 313.107†	435653.5	21511.65	4.94%	[100]	ug/L
Cd 214.440†	25062.8	1047.34	4.18%	[100]	ug/L
Co 228.616†	5849.2	259.64	4.44%	[100]	ug/L
Cr 267.716†	19338.7	868.79	4.49%	[100]	ug/L
Cu 324.752†	17612.0	1068.86	6.07%	[100]	ug/L
Mn 257.610†	62010.4	3294.02	5.31%	[100]	ug/L
Mo 202.031†	4685.6	188.60	4.03%	[100]	ug/L
Ni 231.604†	10104.9	491.94	4.87%	[100]	ug/L
Pb 220.353†	6268.2	208.93	3.33%	[100]	ug/L
Sb 206.836†	3045.0	189.46	6.22%	[100]	ug/L
Se 196.026†	1554.3	77.35	4.98%	[100]	ug/L
Ti 334.940 R†	79080.9	4025.32	5.09%	[100]	ug/L
Tl 190.801†	1300.5	65.55	5.04%	[100]	ug/L
V 292.402†	21414.9	990.93	4.63%	[100]	ug/L
Zn 206.200†	9093.5	383.42	4.22%	[100]	ug/L
Sn 189.927†	2287.2	96.96	4.24%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/10/2008 10:50:59 PM
Data Type: Reprocessed on 3/10/2008 11:32:13 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	144.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3050890.4	25612.82	0.84%	98.6094	%
Y	179060.7	5335.87	2.98%	96.2753	%
Ag 328.068†	558245.2	4580.58	0.82%	[1000]	ug/L
Al 308.215 Rt	542.9	35.29	6.50%	[1000]	ug/L
As 188.979†	11256.7	264.01	2.35%	[1000]	ug/L
B 249.677†	207424.8	1561.12	0.75%	[1000]	ug/L
Ba 233.527†	103632.4	1210.39	1.17%	[1000]	ug/L
Be 313.107†	4346214.5	40622.67	0.93%	[1000]	ug/L
Ca 315.887 Rt	6031.1	123.19	2.04%	[1000]	ug/L
Cd 214.440†	249286.7	2555.24	1.03%	[1000]	ug/L
Co 228.616†	58565.6	639.07	1.09%	[1000]	ug/L
Cr 267.716†	191341.1	1684.53	0.88%	[1000]	ug/L
Cu 324.752†	176381.7	2193.90	1.24%	[1000]	ug/L
Fe 238.204 Rt	3027.5	61.21	2.02%	[1000]	ug/L
K 766.490 Rt	2794.6	103.40	3.70%	[1000]	ug/L
Mg 279.077 Rt	659.3	17.21	2.61%	[1000]	ug/L
Mn 257.610†	610883.3	5761.44	0.94%	[1000]	ug/L
Mo 202.031†	45116.0	800.04	1.77%	[1000]	ug/L
Na 589.592 Rt	314195.5	10211.23	3.25%	[1000]	ug/L
Ni 231.604†	100383.9	1006.17	1.00%	[1000]	ug/L
Pb 220.353†	61373.4	1258.26	2.05%	[1000]	ug/L
Sb 206.836†	30989.1	575.60	1.86%	[1000]	ug/L
Se 196.026†	15822.2	382.09	2.41%	[1000]	ug/L
Ti 334.940 Rt	788753.0	8148.29	1.03%	[1000]	ug/L
Tl 190.801†	12761.6	388.08	3.04%	[1000]	ug/L
V 292.402†	215817.3	1915.98	0.89%	[1000]	ug/L
Zn 206.200†	85173.9	777.92	0.91%	[1000]	ug/L
Sn 189.927†	22723.9	340.83	1.50%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 3/10/2008 10:53:50 PM
Data Type: Reprocessed on 3/10/2008 11:32:14 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	144.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2888656.6	95687.40	3.31%	93.3657	%
Y	170595.6	6431.07	3.77%	91.7239	%
Ag 328.068†	1176150.2	17738.10	1.51%	[2000]	ug/L
Al 308.215 Rt	5777.4	163.32	2.83%	[10000]	ug/L
As 188.979†	117091.1	2495.85	2.13%	[10000]	ug/L
B 249.677†	2219154.2	30939.15	1.39%	[10000]	ug/L
Ba 233.527†	1043041.1	18576.52	1.78%	[10000]	ug/L
Ca 315.887 Rt	62681.7	1972.76	3.15%	[10000]	ug/L
Cd 214.440†	2501658.6	50647.11	2.02%	[10000]	ug/L
Co 228.616†	595309.1	9574.44	1.61%	[10000]	ug/L
Cr 267.716†	1952926.0	31051.76	1.59%	[10000]	ug/L
Cu 324.752†	1789495.4	29818.24	1.67%	[10000]	ug/L
Fe 238.204 Rt	31652.0	881.42	2.78%	[10000]	ug/L
K 766.490 Rt	28247.4	822.70	2.91%	[10000]	ug/L
Mg 279.077 Rt	7004.0	255.23	3.64%	[10000]	ug/L
Mn 257.610†	6017319.0	211329.58	3.51%	[10000]	ug/L
Mo 202.031†	456195.9	7557.96	1.66%	[10000]	ug/L
Na 589.592 Rt	3070798.8	152851.46	4.98%	[10000]	ug/L
Ni 231.604†	1030672.0	16340.93	1.59%	[10000]	ug/L
Pb 220.353†	612104.8	13206.31	2.16%	[10000]	ug/L
Sb 206.836†	324701.1	7464.72	2.30%	[10000]	ug/L
Se 196.026†	165718.7	3342.91	2.02%	[10000]	ug/L
Ti 334.940 Rt	7814711.1	272309.38	3.48%	[10000]	ug/L
Tl 190.801†	127776.4	2985.11	2.34%	[10000]	ug/L
V 292.402†	2264429.5	37151.35	1.64%	[10000]	ug/L
Zn 206.200†	887615.7	11504.16	1.30%	[10000]	ug/L
Sn 189.927†	245405.0	5515.34	2.25%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 3/10/2008 10:58:21 PM
Data Type: Reprocessed on 3/10/2008 11:32:15 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	144.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2594071.9	6778.42	0.26%	83.8443	%
Y	164679.0	7559.76	4.59%	88.5427	%
Al 308.215 Rt	58920.5	2124.19	3.61%	[100000]	ug/L
Ca 315.887 Rt	617868.7	18653.69	3.02%	[100000]	ug/L
Fe 238.204 Rt	313732.9	9378.97	2.99%	[100000]	ug/L
K 766.490 Rt	296268.1	9022.58	3.05%	[100000]	ug/L
Mg 279.077 Rt	68842.0	2064.38	3.00%	[100000]	ug/L
Na 589.592 Rt	30580966.4	1224055.32	4.00%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	582.1	0.00000	0.999788	
Al 308.215 R	4	Lin Thru 0	0.0	0.5891	0.00000	0.999998	
As 188.979	4	Lin Thru 0	0.0	11.70	0.00000	0.999993	
B 249.677	3	Lin Thru 0	0.0	221.8	0.00000	0.999978	
Ba 233.527	4	Lin Thru 0	0.0	104.3	0.00000	1.000000	
Be 313.107	3	Lin Thru 0	0.0	4346	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	6.180	0.00000	0.999999	
Cd 214.440	4	Lin Thru 0	0.0	250.2	0.00000	1.000000	
Co 228.616	4	Lin Thru 0	0.0	59.52	0.00000	0.999999	
Cr 267.716	4	Lin Thru 0	0.0	195.3	0.00000	0.999998	
Cu 324.752	4	Lin Thru 0	0.0	178.9	0.00000	0.999999	
Fe 238.204 R	4	Lin Thru 0	0.0	3.138	0.00000	1.000000	
K 766.490 R	4	Lin Thru 0	0.0	2.961	0.00000	0.999989	
Mg 279.077 R	4	Lin Thru 0	0.0	0.6885	0.00000	0.999998	
Mn 257.610	4	Lin Thru 0	0.0	601.8	0.00000	0.999999	
Mo 202.031	4	Lin Thru 0	0.0	45.61	0.00000	0.999999	
Na 589.592 R	4	Lin Thru 0	0.0	305.8	0.00000	1.000000	
Ni 231.604	4	Lin Thru 0	0.0	103.0	0.00000	0.999997	
Pb 220.353	4	Lin Thru 0	0.0	61.21	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	32.46	0.00000	0.999990	
Se 196.026	4	Lin Thru 0	0.0	16.56	0.00000	0.999990	
Ti 334.940 R	4	Lin Thru 0	0.0	781.5	0.00000	1.000000	
Tl 190.801	4	Lin Thru 0	0.0	12.78	0.00000	1.000000	
V 292.402	4	Lin Thru 0	0.0	226.3	0.00000	0.999989	
Zn 206.200	4	Lin Thru 0	0.0	88.73	0.00000	0.999992	
Sn 189.927	4	Lin Thru 0	0.0	24.52	0.00000	0.999973	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09
Seqnum : 98102159007
Cal : 98102159001
Standards: S8613

File : 031008ar
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 23:02

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	28.137	32.119	5000	4948	ug/L	-1	10	
Arsenic	A	11.184	11.949	5000	5104	ug/L	2	10	
Barium	A	101.94	105.20	5000	5043	ug/L	1	10	
Beryllium	A	4255.7	4568.7	500.0	525.6	ug/L	5	10	
Boron	A	209.02	223.45	5000	5038	ug/L	1	10	
Cadmium	A	242.33	253.12	5000	5059	ug/L	1	10	
Chromium	A	186.43	191.15	5000	4895	ug/L	-2	10	
Cobalt	A	56.507	57.759	5000	4841	ug/L	-3	10	
Copper	A	168.55	175.78	5000	4912	ug/L	-2	10	
Lead	A	57.491	60.230	5000	4920	ug/L	-2	10	
Manganese	A	578.73	598.60	5000	4973	ug/L	-1	10	
Molybdenum	A	44.125	45.793	5000	5020	ug/L	0	10	
Nickel	A	98.248	100.51	5000	4877	ug/L	-2	10	
Selenium	A	15.775	16.566	5000	5001	ug/L	0	10	
Silver	A	552.01	567.89	1000	975.7	ug/L	-2	10	
Thallium	A	12.749	12.610	5000	4935	ug/L	-1	10	
Tin	A	23.061	24.521	5000	5000	ug/L	0	10	
Titanium	A	744.06	788.32	5000	5043	ug/L	1	10	
Vanadium	A	209.95	222.92	5000	4924	ug/L	-2	10	
Zinc	A	96.551	86.900	5000	4897	ug/L	-2	10	
Aluminum	R	0.5153	0.5849	20000	19860	ug/L	-1	10	
Calcium	R	6.4011	6.3317	20000	20490	ug/L	2	10	
Iron	R	2.8621	3.2301	20000	20590	ug/L	3	10	
Magnesium	R	0.6596	0.7159	20000	20800	ug/L	4	10	
Potassium	R	2.8029	2.8678	20000	19370	ug/L	-3	10	
Sodium	R	307.29	312.45	20000	20430	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	2852649	-7.80

98102159007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98102159008
Cal : 98102159001

File : 031008ar
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 23:07

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	[1.836]	5.000	0.2225	ug/L	!ib
Beryllium	A	[0.6483]	2.000	0.08461	ug/L	!ib
Boron	A	[7.965]	100.0	7.698	ug/L	!ib
Cadmium	A	[1.897]	5.000	0.2182	ug/L	!ib
Chromium	A	[3.548]	5.000	0.4895	ug/L	!ib
Cobalt	A	[1.601]	5.000	0.6067	ug/L	!ib
Copper	A	[2.017]	5.000	1.707	ug/L	!ib
Lead	A	[1.418]	3.000	1.378	ug/L	!ib
Manganese	A	[1.794]	5.000	0.8777	ug/L	!ib
Molybdenum	A	[3.191]	5.000	0.8281	ug/L	!ib
Nickel	A	[1.995]	5.000	0.7319	ug/L	!ib
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	[2.225]	10.00	2.036	ug/L	!ib
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	[2.009]	20.00	1.675	ug/L	!ib
Aluminum	R	[46.55]	100.0	21.23	ug/L	!ib
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	[73.50]	100.0	12.17	ug/L	!ib
Magnesium	R	[40.86]	200.0	20.94	ug/L	!ib
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	[126.4]	500.0	34.37	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	3108423	0.47

!=warning ib=instrument blank

98102159008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09
Seqnum : 98102159009
Cal : 98102159001
Standards: S8252

File : 031008ar
Caldate : 10-MAR-2008

IDF : 1.0
Time : 10-MAR-2008 23:11

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[0.7406]	5.000	ug/L	
Arsenic	A	[-1.564]	5.000	ug/L	
Barium	A	[-1.288]	5.000	ug/L	!a-
Beryllium	A	[0.2290]	2.000	ug/L	!a+
Boron	A	209.9	100.0	ug/L	a+ ***
Cadmium	A	[-1.037]	5.000	ug/L	!a-
Cobalt	A	[3.527]	5.000	ug/L	!a+
Lead	A	[0.1459]	3.000	ug/L	
Molybdenum	A	[1.613]	5.000	ug/L	!a+
Selenium	A	6.682	5.000	ug/L	!a+
Silver	A	[2.857]	5.000	ug/L	!a+
Thallium	A	[4.390]	5.000	ug/L	!a+
Tin	A	[-23.42]	40.00	ug/L	!a-
Zinc	A	[-13.31]	20.00	ug/L	!a-
Potassium	R	[137.4]	500.0	ug/L	!a+
Sodium	R	[135.5]	500.0	ug/L	!a+

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18920	ug/L	95
Copper	A	20000	20170	ug/L	101
Manganese	A	20000	18370	ug/L	92
Nickel	A	20000	17810	ug/L	89
Titanium	A	20000	19700	ug/L	99
Vanadium	A	20000	19620	ug/L	98
Aluminum	R	500000	473300	ug/L	95
Calcium	R	500000	476900	ug/L	95
Iron	R	200000	185300	ug/L	93
Magnesium	R	500000	476000	ug/L	95

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	2489175	-19.55

!=warning +=high bias -=low bias a=ICSA

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98102159010
Cal : 98102159001
Standards: S8351

File : 031008ar
Caldate : 10-MAR-2008

IDF : 1.0
Time : 11-MAR-2008 00:19

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	512.0	ug/L	2	20	
Arsenic	A	500.0	506.0	ug/L	1	20	
Barium	A	500.0	491.3	ug/L	-2	20	
Beryllium	A	500.0	524.9	ug/L	5	20	
Cadmium	A	1000	949.7	ug/L	-5	20	
Chromium	A	500.0	476.8	ug/L	-5	20	
Cobalt	A	500.0	426.7	ug/L	-15	20	
Copper	A	500.0	499.8	ug/L	0	20	
Lead	A	1000	863.2	ug/L	-14	20	
Manganese	A	500.0	489.9	ug/L	-2	20	
Molybdenum	A	500.0	491.1	ug/L	-2	20	
Nickel	A	1000	887.2	ug/L	-11	20	
Selenium	A	500.0	470.0	ug/L	-6	20	
Silver	A	1000	1012	ug/L	1	20	
Thallium	A	500.0	409.1	ug/L	-18	20	
Titanium	A	20000	19220	ug/L	-4		
Vanadium	A	500.0	500.2	ug/L	0	20	
Zinc	A	1000	917.3	ug/L	-8	20	
Aluminum	R	500000	477900	ug/L	-4		
Calcium	R	500000	476700	ug/L	-5		
Iron	R	200000	185000	ug/L	-8		
Magnesium	R	500000	472600	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	2590805	-16.26

98102159010

00154

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98102159019
Cal : 98102159001
Standards: S8614

File : 031008ar
Caldate : 10-MAR-2008

IDF : 1.0
Time : 11-MAR-2008 00:53

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.137	32.949	5000	5076	ug/L	2	10	
Arsenic	A	11.184	11.942	5000	5101	ug/L	2	10	
Barium	A	101.94	104.96	5000	5032	ug/L	1	10	
Beryllium	A	4255.7	4563.6	500.0	525.0	ug/L	5	10	
Boron	A	209.02	222.84	5000	5024	ug/L	0	10	
Cadmium	A	242.33	255.31	5000	5103	ug/L	2	10	
Chromium	A	186.43	191.22	5000	4897	ug/L	-2	10	
Cobalt	A	56.507	57.800	5000	4844	ug/L	-3	10	
Copper	A	168.55	174.70	5000	4882	ug/L	-2	10	
Lead	A	57.491	60.467	5000	4939	ug/L	-1	10	
Manganese	A	578.73	601.55	5000	4998	ug/L	0	10	
Molybdenum	A	44.125	45.388	5000	4975	ug/L	0	10	
Nickel	A	98.248	100.45	5000	4875	ug/L	-3	10	
Selenium	A	15.775	16.465	5000	4970	ug/L	-1	10	
Silver	A	552.01	566.83	1000	973.8	ug/L	-3	10	
Thallium	A	12.749	12.657	5000	4953	ug/L	-1	10	
Tin	A	23.061	24.584	5000	5013	ug/L	0	10	
Titanium	A	744.06	788.42	5000	5044	ug/L	1	10	
Vanadium	A	209.95	223.74	5000	4943	ug/L	-1	10	
Zinc	A	96.551	86.393	5000	4868	ug/L	-3	10	
Aluminum	R	0.5153	0.5710	20000	19390	ug/L	-3	10	
Calcium	R	6.4011	6.1747	20000	19980	ug/L	0	10	
Iron	R	2.8621	3.1473	20000	20060	ug/L	0	10	
Magnesium	R	0.6596	0.6940	20000	20160	ug/L	1	10	
Potassium	R	2.8029	2.8252	20000	19080	ug/L	-5	10	
Sodium	R	307.29	300.14	20000	19630	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	2803007	-9.40

98102159019

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98102159020
Cal : 98102159001
File : 031008ar
Caldate : 10-MAR-2008
IDF : 1.0
Time : 11-MAR-2008 00:57

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	[0.6043]	5.000	0.2225	ug/L	!ib
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	ND	100.0	7.698	ug/L	
Cadmium	A	[0.5167]	5.000	0.2182	ug/L	!ib
Chromium	A	[0.8253]	5.000	0.4895	ug/L	!ib
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	[1.299]	5.000	0.8281	ug/L	!ib
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	ND	500.0	34.37	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	3024455	-2.25

=warning ib=instrument blank

98102159020

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98102159031
Cal : 98102159001
Standards: S8614

File : 031008ar
Caldate : 10-MAR-2008

IDF : 1.0
Time : 11-MAR-2008 01:47

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.137	32.122	5000	4949	ug/L	-1	10	
Arsenic	A	11.184	11.517	5000	4920	ug/L	-2	10	
Barium	A	101.94	103.36	5000	4955	ug/L	-1	10	
Beryllium	A	4255.7	4512.2	500.0	519.1	ug/L	4	10	
Boron	A	209.02	220.42	5000	4970	ug/L	-1	10	
Cadmium	A	242.33	251.79	5000	5033	ug/L	1	10	
Chromium	A	186.43	188.71	5000	4833	ug/L	-3	10	
Cobalt	A	56.507	55.765	5000	4674	ug/L	-7	10	
Copper	A	168.55	172.69	5000	4826	ug/L	-3	10	
Lead	A	57.491	58.095	5000	4745	ug/L	-5	10	
Manganese	A	578.73	595.38	5000	4946	ug/L	-1	10	
Molybdenum	A	44.125	43.963	5000	4819	ug/L	-4	10	
Nickel	A	98.248	98.804	5000	4794	ug/L	-4	10	
Selenium	A	15.775	15.979	5000	4823	ug/L	-4	10	
Silver	A	552.01	556.00	1000	955.2	ug/L	-4	10	
Thallium	A	12.749	12.197	5000	4773	ug/L	-5	10	
Tin	A	23.061	23.667	5000	4826	ug/L	-3	10	
Titanium	A	744.06	779.93	5000	4990	ug/L	0	10	
Vanadium	A	209.95	221.32	5000	4889	ug/L	-2	10	
Zinc	A	96.551	84.868	5000	4783	ug/L	-4	10	
Aluminum	R	0.5153	0.5710	20000	19390	ug/L	-3	10	
Calcium	R	6.4011	6.3801	20000	20650	ug/L	3	10	
Iron	R	2.8621	3.1439	20000	20040	ug/L	0	10	
Magnesium	R	0.6596	0.7107	20000	20640	ug/L	3	10	
Potassium	R	2.8029	2.8808	20000	19460	ug/L	-3	10	
Sodium	R	307.29	407.31	20000	26640	ug/L	**33**	10	c+ ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	2813695	-9.06

=high bias c=CCV

98102159031

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98102159034
Cal : 98102159001
File : 031008ar
Caldate : 10-MAR-2008
IDF : 1.0
Time : 11-MAR-2008 01:55

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	ND	5.000	0.2225	ug/L	
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	ND	100.0	7.698	ug/L	
Cadmium	A	ND	5.000	0.2182	ug/L	
Chromium	A	ND	5.000	0.4895	ug/L	
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	ND	5.000	0.8281	ug/L	
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	[106.4]	500.0	79.42	ug/L	!ib
Sodium	R	[477.0]	500.0	34.37	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	3119391	0.82

!=warning ib=instrument blank

98102159034

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98102159040
Cal : 98102159001
Standards: S8351

File : 031008ar
Caldate : 10-MAR-2008

IDF : 1.0
Time : 11-MAR-2008 02:22

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	542.5	ug/L	8	20	
Arsenic	A	500.0	511.6	ug/L	2	20	
Barium	A	500.0	509.0	ug/L	2	20	
Beryllium	A	500.0	546.6	ug/L	9	20	
Cadmium	A	1000	994.2	ug/L	-1	20	
Chromium	A	500.0	495.2	ug/L	-1	20	
Cobalt	A	500.0	443.9	ug/L	-11	20	
Copper	A	500.0	517.2	ug/L	3	20	
Lead	A	1000	898.7	ug/L	-10	20	
Manganese	A	500.0	510.3	ug/L	2	20	
Molybdenum	A	500.0	521.1	ug/L	4	20	
Nickel	A	1000	922.6	ug/L	-8	20	
Selenium	A	500.0	491.2	ug/L	-2	20	
Silver	A	1000	1049	ug/L	5	20	
Thallium	A	500.0	425.6	ug/L	-15	20	
Titanium	A	20000	19780	ug/L	-1		
Vanadium	A	500.0	519.3	ug/L	4	20	
Zinc	A	1000	954.6	ug/L	-5	20	
Aluminum	R	500000	497000	ug/L	-1		
Calcium	R	500000	485300	ug/L	-3		
Iron	R	200000	186800	ug/L	-7		
Magnesium	R	500000	486000	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	2470558	-20.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98102159041
Cal : 98102159001
Standards: S8614

File : 031008ar
Caldate : 10-MAR-2008

IDF : 1.0
Time : 11-MAR-2008 02:27

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	28.137	31.321	5000	4825	ug/L	-3	10	
Arsenic	A	11.184	11.263	5000	4811	ug/L	-4	10	
Barium	A	101.94	100.46	5000	4816	ug/L	-4	10	
Beryllium	A	4255.7	4384.7	500.0	504.4	ug/L	1	10	
Boron	A	209.02	213.49	5000	4813	ug/L	-4	10	
Cadmium	A	242.33	245.17	5000	4900	ug/L	-2	10	
Chromium	A	186.43	183.56	5000	4701	ug/L	-6	10	
Cobalt	A	56.507	54.670	5000	4582	ug/L	-8	10	
Copper	A	168.55	167.32	5000	4676	ug/L	-6	10	
Lead	A	57.491	57.061	5000	4661	ug/L	-7	10	
Manganese	A	578.73	579.38	5000	4814	ug/L	-4	10	
Molybdenum	A	44.125	43.143	5000	4729	ug/L	-5	10	
Nickel	A	98.248	96.044	5000	4660	ug/L	-7	10	
Selenium	A	15.775	15.626	5000	4717	ug/L	-6	10	
Silver	A	552.01	547.41	1000	940.5	ug/L	-6	10	
Thallium	A	12.749	11.960	5000	4680	ug/L	-6	10	
Tin	A	23.061	23.220	5000	4735	ug/L	-5	10	
Titanium	A	744.06	760.68	5000	4867	ug/L	-3	10	
Vanadium	A	209.95	215.35	5000	4757	ug/L	-5	10	
Zinc	A	96.551	82.129	5000	4628	ug/L	-7	10	
Aluminum	R	0.5153	0.5489	20000	18640	ug/L	-7	10	
Calcium	R	6.4011	5.9624	20000	19300	ug/L	-4	10	
Iron	R	2.8621	2.9951	20000	19090	ug/L	-5	10	
Magnesium	R	0.6596	0.6713	20000	19500	ug/L	-2	10	
Potassium	R	2.8029	2.7280	20000	18420	ug/L	-8	10	
Sodium	R	307.29	303.39	20000	19840	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	2868687	-7.28

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98102159043
Cal : 98102159001

File : 031008ar
Caldate : 10-MAR-2008

IDF : 1.0
Time : 11-MAR-2008 02:34

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	[0.5887]	5.000	0.2225	ug/L	!ib
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	ND	100.0	7.698	ug/L	
Cadmium	A	[0.4827]	5.000	0.2182	ug/L	!ib
Chromium	A	[0.4970]	5.000	0.4895	ug/L	!ib
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	[1.311]	5.000	0.8281	ug/L	!ib
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	[24.07]	200.0	20.94	ug/L	!ib
Potassium	R	[107.9]	500.0	79.42	ug/L	!ib
Sodium	R	[330.7]	500.0	34.37	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3093916	3024399	-2.25

!=warning ib=instrument blank

98102159043

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 848101639 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 10-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	135775	ICALBLK	STD01REP1				10-MAR-2008 13:59	1.0	1.0									
002	135775	ICAL	STD02REP1				10-MAR-2008 14:01	1.0	1.0									
003	135775	ICAL	STD03REP1				10-MAR-2008 14:03	1.0	1.0									
004	135775	ICAL	STD04REP1				10-MAR-2008 14:05	1.0	1.0									
005	135775	ICAL	STD05REP1				10-MAR-2008 14:07	1.0	1.0									
006	135775	ICAL	STD06REP1				10-MAR-2008 14:10	1.0	1.0									
007	135775	ICV					10-MAR-2008 14:12	1.0	1.0	2	5.000	848101639001	5.230		ug/L	105		
008	135775	ICB					10-MAR-2008 14:14	1.0	1.0			848101639001	ND	0.20	ug/L			
009	135775	BLANK	QC432051		135775	Water	10-MAR-2008 14:16	1.0	1.0			848101639001	ND	0.20	ug/L			u
010	135775	BS	QC432052		135775	Water	10-MAR-2008 14:18	1.0	1.0		5.000	848101639001	4.800	0.20	ug/L	96		u
011	135775	BSD	QC432053		135775	Water	10-MAR-2008 14:20	1.0	1.0		5.000	848101639001	5.070	0.20	ug/L	101	5	u
012	135775	MSS	201640-001		135775	TCLP L	10-MAR-2008 14:22	1.0	1.0			848101639001	ND	2.0	ug/L			u
013	135775	SER	QC432054	201640-001	135775	TCLP L	10-MAR-2008 14:25	5.0	1.0			848101639001	ND	1.0	ug/L		--	u
014	135775	MS	QC432055	201640-001	135775	TCLP L	10-MAR-2008 14:27	1.0	1.0		5.000	848101639001	5.360	0.20	ug/L	107		u
015	135775	MSD	QC432056	201640-001	135775	TCLP L	10-MAR-2008 14:29	1.0	1.0		5.000	848101639001	5.320	0.20	ug/L	106	1	u
016	135775	MSS	201741-001		135775	Water	10-MAR-2008 14:31	1.0	1.0			848101639001	ND	0.20	ug/L			u
017	135775	SER	QC432057	201741-001	135775	Water	10-MAR-2008 14:33	5.0	1.0			848101639001	ND	1.0	ug/L		--	u
018	135775	MS	QC432058	201741-001	135775	Water	10-MAR-2008 14:36	1.0	1.0		5.000	848101639001	5.300	0.20	ug/L	105		u
019	135775	CCV					10-MAR-2008 14:38	1.0	1.0	3	2.500	848101639001	2.520		ug/L	101		
020	135775	CCB					10-MAR-2008 14:40	1.0	1.0			848101639001	ND	0.20	ug/L			
021	135775	MSD	QC432059	201741-001	135775	Water	10-MAR-2008 14:42	1.0	1.0		5.000	848101639001	5.260	0.20	ug/L	104	1	u
022	135775	MSS	201743-001		135775	WET Le	10-MAR-2008 14:45	1.0	5.0			848101639001	ND	2.0	ug/L			u
023	135775	SER	QC432060	201743-001	135775	WET Le	10-MAR-2008 14:47	5.0	5.0			848101639001	ND	5.0	ug/L		--	u
024	135775	MS	QC432061	201743-001	135775	WET Le	10-MAR-2008 14:49	1.0	5.0		25.00	848101639001	20.20	1.0	ug/L	81		u
025	135775	MSD	QC432062	201743-001	135775	WET Le	10-MAR-2008 14:52	1.0	5.0		25.00	848101639001	19.55	1.0	ug/L	78	3	u
026	135775	PREPBLK	QC432063		135775	WET Le	10-MAR-2008 14:54	1.0	5.0			848101639001	ND	1.0	ug/L			u
027	135775	PREPBLK	QC432064		135775	TCLP L	10-MAR-2008 14:56	1.0	1.0			848101639001	ND	0.20	ug/L			u
028	135775	SAMPLE	201640-001		135775	WET Le	10-MAR-2008 14:58	1.0	5.0			848101639001	ND	2.0	ug/L			u
029	135775	SAMPLE	201704-001		135775	TCLP L	10-MAR-2008 15:00	1.0	1.0			848101639001	ND	2.0	ug/L			u
030	135775	SAMPLE	201704-002		135775	TCLP L	10-MAR-2008 15:03	1.0	1.0			848101639001	ND	2.0	ug/L			u
031	135775	CCV					10-MAR-2008 15:05	1.0	1.0	4	7.500	848101639001	7.170		ug/L	96		
032	135775	CCB					10-MAR-2008 15:07	1.0	1.0			848101639001	ND	0.20	ug/L			
033	135775	SAMPLE	201704-003		135775	TCLP L	10-MAR-2008 15:09	1.0	1.0			848101639001	ND	2.0	ug/L			u
034	135775	SAMPLE	201704-004		135775	TCLP L	10-MAR-2008 15:12	1.0	1.0			848101639001	ND	2.0	ug/L			u
035	135775	SAMPLE	201741-002		135775	Water	10-MAR-2008 15:14	1.0	1.0			848101639001	0.84	0.20	ug/L			u
036	135775	SAMPLE	201741-003		135775	Water	10-MAR-2008 15:16	1.0	1.0			848101639001	1.6	0.20	ug/L			u
037	135775	SAMPLE	201741-004		135775	Water	10-MAR-2008 15:18	1.0	1.0			848101639001	0.30	0.20	ug/L			u
038	135775	SAMPLE	201743-002		135775	WET Le	10-MAR-2008 15:20	1.0	5.0			848101639001	ND	2.0	ug/L			u
039	135775	SAMPLE	201743-003		135775	WET Le	10-MAR-2008 15:22	1.0	5.0			848101639001	ND	2.0	ug/L			u
040	135775	SAMPLE	201743-004		135775	WET Le	10-MAR-2008 15:24	1.0	5.0			848101639001	ND	2.0	ug/L			u
041	135775	SAMPLE	201743-005		135775	WET Le	10-MAR-2008 15:27	1.0	5.0			848101639001	ND	2.0	ug/L			u
042	135775	SAMPLE	201743-006		135775	WET Le	10-MAR-2008 15:29	1.0	5.0			848101639001	ND	2.0	ug/L			u
043	135775	CCV					10-MAR-2008 15:32	1.0	1.0	5	5.000	848101639001	4.780		ug/L	96		

Stds used: 1=S8642 2=S8644 3=S8645 4=S8647 5=S8646
Flags used: u=use

Analyst: _____ Date: 3/10/08

VXM 3/10/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 848101639 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 10-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

3/10/08

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
044	135775	CCB					10-MAR-2008 15:34	1.0	1.0			848101639001	ND	0.20	ug/L			
045	135775	SAMPLE	201743-007		135775	WET Le	10-MAR-2008 15:36	1.0	5.0			848101639001	ND	2.0	ug/L			u
046	135775	SAMPLE	201743-008		135775	WET Le	10-MAR-2008 15:38	1.0	5.0			848101639001	ND	2.0	ug/L			u
047	135775	SAMPLE	201743-009		135775	WET Le	10-MAR-2008 15:40	1.0	5.0			848101639001	ND	2.0	ug/L			u
048	135775	SAMPLE	201743-010		135775	WET Le	10-MAR-2008 15:43	1.0	5.0			848101639001	ND	2.0	ug/L			u
049	135775	CCV					10-MAR-2008 15:45	1.0	1.0	4	7.500	848101639001	7.110		ug/L	95		
050	135775	CCB					10-MAR-2008 15:47	1.0	1.0			848101639001	ND	0.20	ug/L			

Stds used: 1=S8643 2=S8644 3=S8645 4=S8647 5=S8646
Flags used: u=use

Analyst: _____ Date: 3/10/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 848101750 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 10-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	135774	CCV					10-MAR-2008 15:50	1.0	1.0	1	2.500	848101639001	2.390		ug/L	96		
002	135774	ICB					10-MAR-2008 15:53	1.0	1.0			848101639001	[0.006000]	0.20	ug/L			
003	135774	BLANK	QC432045		135774	Water	10-MAR-2008 15:55	1.0	1.0			848101639001	ND	0.20	ug/L			u
004	135774	BS	QC432046		135774	Water	10-MAR-2008 15:57	1.0	1.0		5.000	848101639001	4.460	0.20	ug/L	89		u
005	135774	BSD	QC432047		135774	Water	10-MAR-2008 15:59	1.0	1.0		5.000	848101639001	4.580	0.20	ug/L	92	3	u
006	135774	MSS	201606-018		135774	Water	10-MAR-2008 16:02	1.0	1.0			848101639001	1.3	0.20	ug/L			u
007	135774	MS	QC432049	201606-018	135774	Water	10-MAR-2008 16:07	1.0	1.0		5.000	848101639001	5.320	0.20	ug/L	80		u
008	135774	MSD	QC432050	201606-018	135774	Water	10-MAR-2008 16:09	1.0	1.0		5.000	848101639001	5.420	0.20	ug/L	82	2	u
009	135774	SAMPLE	201606-001		135774	Water	10-MAR-2008 16:12	1.0	1.0			848101639001	3.9	0.20	ug/L			u
010	135774	SAMPLE	201606-002		135774	Water	10-MAR-2008 16:14	1.0	1.0			848101639001	ND	0.20	ug/L			u
011	135774	SAMPLE	201606-003		135774	Water	10-MAR-2008 16:17	1.0	1.0			848101639001	ND	0.20	ug/L			u
012	135774	CCV					10-MAR-2008 16:19	1.0	1.0	2	7.500	848101639001	7.120		ug/L	95		
013	135774	CCB					10-MAR-2008 16:21	1.0	1.0			848101639001	ND	0.20	ug/L			
014	135774	SAMPLE	201606-004		135774	Water	10-MAR-2008 16:24	1.0	1.0			848101639001	8.6	0.20	ug/L			u
015	135774	SAMPLE	201606-005		135774	Water	10-MAR-2008 16:26	1.0	1.0			848101639001	1.1	0.20	ug/L			u
016	135774	SAMPLE	201606-006		135774	Water	10-MAR-2008 16:28	1.0	1.0			848101639001	0.57	0.20	ug/L			u
017	135774	SAMPLE	201606-007		135774	Water	10-MAR-2008 16:30	1.0	1.0			848101639001	1.3	0.20	ug/L			u
018	135774	SAMPLE	201606-008		135774	Water	10-MAR-2008 16:32	1.0	1.0			848101639001	0.48	0.20	ug/L			u
019	135774	SAMPLE	201606-009		135774	Water	10-MAR-2008 16:35	1.0	1.0			848101639001	0.73	0.20	ug/L			u
020	135774	SAMPLE	201606-010		135774	Water	10-MAR-2008 16:37	1.0	1.0			848101639001	1.2	0.20	ug/L			u
021	135774	SAMPLE	201606-011		135774	Water	10-MAR-2008 16:39	1.0	1.0			848101639001	ND	0.20	ug/L			u
022	135774	SAMPLE	201606-013		135774	Water	10-MAR-2008 16:41	1.0	1.0			848101639001	1.8	0.20	ug/L			u
023	135774	SAMPLE	201606-014		135774	Water	10-MAR-2008 16:44	1.0	1.0			848101639001	0.27	0.20	ug/L			u
024	135774	CCV					10-MAR-2008 16:46	1.0	1.0	3	5.000	848101639001	4.670		ug/L	93		
025	135774	CCB					10-MAR-2008 16:48	1.0	1.0			848101639001	ND	0.20	ug/L			
026	135774	SAMPLE	201606-015		135774	Water	10-MAR-2008 16:50	1.0	1.0			848101639001	0.82	0.20	ug/L			u
027	135774	SAMPLE	201606-016		135774	Water	10-MAR-2008 16:52	1.0	1.0			848101639001	0.24	0.20	ug/L			u
028	135774	SAMPLE	201606-017		135774	Water	10-MAR-2008 16:55	1.0	1.0			848101639001	0.45	0.20	ug/L			u
029	135774	SAMPLE	201606-019		135774	Water	10-MAR-2008 16:57	1.0	1.0			848101639001	ND	0.20	ug/L			u
030	135774	SAMPLE	201606-020		135774	Water	10-MAR-2008 17:00	1.0	1.0			848101639001	ND	0.20	ug/L			u
031	135774	SAMPLE	201749-001		135774	Water	10-MAR-2008 17:02	1.0	1.0			848101639001	ND	0.20	ug/L			u
032	135774	CCV					10-MAR-2008 17:04	1.0	1.0	2	7.500	848101639001	7.140		ug/L	95		
033	135774	CCB					10-MAR-2008 17:06	1.0	1.0			848101639001	ND	0.20	ug/L			
034	135774	MSS	201606-018		135774	Water	10-MAR-2008 17:09	1.0	1.0			848101639001	1.4	0.20	ug/L			
035	135774	SER	QC432048	201606-018	135774	Water	10-MAR-2008 17:13	5.0	1.0			848101639001	0.95 J	1.0	ug/L		--	u
036	135774	CCV					10-MAR-2008 17:15	1.0	1.0	3	5.000	848101639001	4.670		ug/L	93		
037	135774	CCB					10-MAR-2008 17:17	1.0	1.0			848101639001	ND	0.20	ug/L			

Stds used: 1=S8645 2=S8647 3=S8646
Flags used: u=use

Analyst: _____ Date: 3/10/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET14
Calnum : 848101639001
Units : ug/L

Date : 10-MAR-2008 13:59
X Axis : R

Reviewer : ---
Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	135775	848101639002	STD02REP1	10-MAR-2008 14:01	S8642 (500X)
L2	135775	848101639003	STD03REP1	10-MAR-2008 14:03	S8642 (200X)
L3	135775	848101639004	STD04REP1	10-MAR-2008 14:05	S8642 (50X)
L4	135775	848101639005	STD05REP1	10-MAR-2008 14:07	S8642 (20X)
L5	135775	848101639006	STD06REP1	10-MAR-2008 14:10	S8642 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	6320.0	5424.0	4775.5	4644.2	4383.9	LINR	-0.1363	2.29E-4		5109.5	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Mercury	0.200	-23	0.500	-3	2.000	2	5.000	4	10.00	-1

6615

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

WinHg Database 1.5

File Utility Help

RN RN

Protocol m14hgppb

Dataset/Proto 031008 /m14hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 2.28876e-4

C -1.36281e-1

Rho .999667

Type Linear

Calibrated

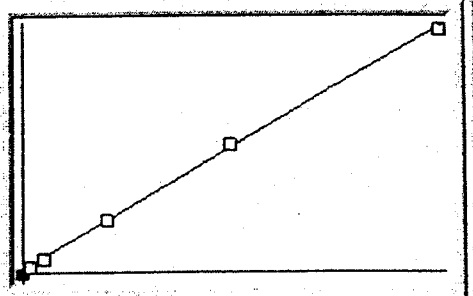
Accepted

Accept

µ Abs. 43839

Accepted

New



10-Mar-08 14:10 Conc. 10.0

Include S1 Rep 1 2 3 4 5

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.063	-.063	320	0	320		
02	.20000	.153	-.047	1264	0%	1264		
03	.50000	.484	-.016	2712	0%	2712		
04	2.0000	2.05	.050	9552	0%	9551		
05	5.0000	5.18	.178	23222	0%	23221		
06	10.000	9.90	-.103	43839	0%	43839		

Ready

NUM SCRL

Protocol: m14hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1		13:59:04 10 Mar 08	HG	
Hg	.000	ppb	320					
		Bkgd 1	9348185					
*** Standard: 2 Rep: 1				Seq: 2		14:01:14 10 Mar 08	HG	
Hg	.200	ppb	1264					
		Bkgd 1	9348577					
*** Standard: 3 Rep: 1				Seq: 3		14:03:19 10 Mar 08	HG	
Hg	.500	ppb	2712					
		Bkgd 1	9344607					
*** Standard: 4 Rep: 1				Seq: 4		14:05:54 10 Mar 08	HG	
Hg	2.00	ppb	9551					
		Bkgd 1	9342614					
*** Standard: 5 Rep: 1				Seq: 5		14:07:59 10 Mar 08	HG	
Hg	5.00	ppb	23221					
		Bkgd 1	9336843					
*** Standard: 6 Rep: 1				Seq: 6		14:10:04 10 Mar 08	HG	
Hg	10.0	ppb	43839					
		Bkgd 1	9324636					
*** Check Standard: 2			Ck2s8644	Seq: 7		14:12:08 10 Mar 08	HG	
Line	Flag		Intensities					
Hg			23453					
		Bkgd 1	9309916					
*** Check Standard: 1			Ck1ICB	Seq: 8		14:14:15 10 Mar 08	HG	
Line	Flag		Intensities					
Hg			32					
		Bkgd 1	9305609					
*** Sample ID: qc432051				Seq: 9		14:16:29 10 Mar 08	HG	
			135775,1					
Hg	-.149	ppb	-56					
		Bkgd 1	9313490					

SXM 3/10/08

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3010A
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX303RB304	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	135773
MSS Lab ID:	201749-001	Sampled:	03/06/08
Lab ID:	QC432043	Received:	03/06/08
Matrix:	Water	Analyzed:	03/11/08
Units:	ug/L		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	ND	10.00	7.924 J	25.00	NC	10
Arsenic	ND	6.126	ND	30.63	NC	10
Barium	0.2050	5.000	1.245 J	25.00	NC	10
Beryllium	ND	2.000	ND	10.00	NC	10
Cadmium	ND	5.000	ND	25.00	NC	10
Chromium	ND	5.000	ND	25.00	NC	10
Cobalt	ND	5.000	ND	25.00	NC	10
Copper	ND	5.000	ND	25.00	NC	10
Lead	ND	3.000	ND	15.00	NC	10
Molybdenum	ND	5.000	ND	25.00	NC	10
Nickel	ND	5.000	ND	25.00	NC	10
Selenium	ND	10.00	ND	25.00	NC	10
Silver	ND	5.000	ND	25.00	NC	10
Thallium	ND	10.00	ND	25.00	NC	10
Vanadium	ND	5.000	ND	25.00	NC	10
Zinc	0.9673	20.00	ND	100.0	NC	10

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

7.0

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum : 98102159014
File : 031008ar
IDF : 1.0
Lab ID : 201749-001
Matrix : Water
Batch : 135773
Time : 11-MAR-2008 00:34
Cal : 98102159001
Units : ug/L

Type : PDS
Inst : MET09
Seqnum : 98102159018
File : 031008ar
IDF : 1.0
Lab ID : QC432044
Matrix : Water
Batch : 135773
Time : 11-MAR-2008 00:49
Cal : 98102159001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S6920 (100X), S6921 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	2000	1791	R	90	75-125	!<ib u
Antimony	ND	A	500.0	470.9	A	94	75-125	u
Arsenic	ND	A	100.0	98.00	A	98	75-125	u **y**
Barium	0.2050	A	2000	1961	A	98	75-125	!<a- !<ib !>ib u
Beryllium	ND	A	50.00	52.54	A	105	75-125	!<a+ !<ib u
Cadmium	ND	A	50.00	49.78	A	100	75-125	!<a- !<ib !>ib u
Calcium	ND	R	20000	19220	R	96	75-125	u
Chromium	ND	A	200.0	193.4	A	97	75-125	!<ib !>ib u
Cobalt	ND	A	500.0	460.4	A	92	75-125	!<a+ !<ib u
Copper	ND	A	250.0	237.2	A	95	75-125	!<ib u
Iron	ND	R	1000	935.7	R	94	75-125	!<ib u
Lead	ND	A	100.0	94.91	A	95	75-125	!<ib u
Magnesium	ND	R	20000	19150	R	96	75-125	!<ib u
Manganese	ND	A	50.00	49.01	A	98	75-125	!<ib u
Molybdenum	ND	A	400.0	409.3	A	102	75-125	!<a+ !<ib !>ib u
Nickel	ND	A	500.0	478.3	A	96	75-125	!<ib u
Potassium	ND	R	10000	9055	R	91	75-125	!<a+ u
Selenium	ND	A	100.0	97.54	A	98	75-125	!<a+ u
Silver	ND	A	50.00	37.11	A	**74***	75-125	!<a+ u
Sodium	116.6	R	20000	19130	R	95	75-125	!<a+ !<ib u
Thallium	ND	A	100.0	97.62	A	98	75-125	!<a+ u
Vanadium	ND	A	500.0	479.3	A	96	75-125	u
Zinc	0.9673	A	500.0	489.8	A	98	75-125	!<a- !<ib u
Tin	ND	A	1000	986.2	A	99	75-125	!<a- u
Titanium	ND	A	1000	1016	A	102	75-125	!<ib u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3093916	2967244	-4.09

MISSING READINGS: **B**

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

98102159018

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	201749	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7470A
Analyte:	Mercury	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	135774
MSS Lab ID:	201606-018	Sampled:	02/27/08
Lab ID:	QC432048	Received:	02/29/08
Matrix:	Water	Analyzed:	03/10/08

MSS Result	MSS RL	Result	RL	% Diff	Lim
1.320	0.2000	0.9500 J	1.000	NC	10

J= Estimated value
NC= Not Calculated
RL= Reporting Limit

9.0

Curtis & Tompkins Laboratories Sample Preparation Summary 11-MAR-2008 07:36

Batch Number : 135773
Date Extracted: 10-MAR-2008
Extracted by : Kevin Gaines
Prep Method : 3010A

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S6920
Spike #2 ID : S6921
Spike #3 ID :
SOP Version : 3010A_ICP_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
201686-001			SECOR	Water	50	mL	50	1.000000	1				TAL/ICP		
201686-002			SECOR	Water	50	mL	50	1.000000	1				TAL/ICP		
201686-003			SECOR	Water	50	mL	50	1.000000	1				TAL/ICP		
201686-004			SECOR	Water	50	mL	50	1.000000	1				TAL/ICP		
201691-001			SECOR	Water	50	mL	50	1.000000	1				TAL/ICP		
201691-002			SECOR	Water	50	mL	50	1.000000	1				TAL/ICP		
201691-003			SECOR	Water	50	mL	50	1.000000	1				TAL/ICP		
201749-001			Mactec, Inc.	Water	50	mL	50	1.000000	1				T26/ICP		
201770-001			K.Healy	Water	50	mL	50	1.000000	1				CU, FE		
201774-001			Brown and Caldwell	Water	50	mL	50	1.000000	1				FE		
201774-004			Brown and Caldwell	Water	50	mL	50	1.000000	1				FE		
201779-002			Aerojet	Filtrate	50	mL	50	1.000000	1				T26/ICP		
201785-001			New Logic Research	Water	50	mL	50	1.000000	1				HARDNESS		
201785-002			New Logic Research	Water	50	mL	50	1.000000	1				HARDNESS		
201785-003			New Logic Research	Water	50	mL	50	1.000000	1				HARDNESS		
201785-004			New Logic Research	Water	50	mL	50	1.000000	1				HARDNESS		
QC432038	BLANK			Water	50	mL	50	1.000000	1				ICAP		
QC432039	BS			Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC432040	BSD			Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC432041	MS	of 201749-001		Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC432042	MSD	of 201749-001		Water	50	mL	50	1.000000	1	.5	.5		ICAP		
QC432043	SER	of 201749-001		Water	50	mL	50	1.000000	1				ICAP		
QC432044	PDS	of 201749-001		Water	50	mL	50	1.000000	1				ICAP		

Prep Chemist: for RG 3/11/08 Reviewed By: Date: 3/11/08

Relinquished By: Received By: Date: 3/11/08

135773

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 135773
Digested by: MA
Date Digested: 3/10/08

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK 2651
Page 92
Continued From: /
Continued On: /

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50		
BS				
BSD				
MS -01 K				
MSD -01				
201744-01				
-686-01 B				
02				
03				
04				
-691-01				
02				
03				
-710-01C				
-724-01K				
L 04J				
729-03E				FIELD FILTERED
735-01A				
-02				
-03				
-04A1				

MA 3/10/08

4514-19426-261-216

	Reagent ID or LIMS #	Initials / Date
Digestion Tube Lot #		
.5 mL of spike solution (Std1) was added to all spikes	560920	MA 3/10
.5 mL of spike solution (Std2) was added to all spikes	560921	
Digestion temperature (90-95 degrees C)	95	
Digestion started at (time)	8:00	
☐ 1:1 HNO3, ☐ concentrated HNO3, added to all samples	43004 Baker	
1:1 HCl added to all samples	E40000	
Digestion ended at (time)	12:30	
☐ filtered thru' Whatman # 541	NA	
Relinquished to ICP group	OES	

MA 3/10/08
Prep Chemist Signature / Date

3/10/08
Reviewer Signature / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 10-MAR-2008 11:30

Batch Number : 135774
Date Extracted: 10-MAR-2008
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S8642
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
201606-001			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-002			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-003			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-004			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-005			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-006			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-007			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-008			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-009			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-010			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-011			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-013			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-014			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-015			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-016			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-017			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		MSS
201606-018			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-019			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201606-020			Battelle Environmental Restora	Water	50	mL	50	1.000000	1					TAL/HG		
201749-001			Mactec, Inc.	Water	50	mL	50	1.000000	1					T26/HG		
QC432045	BLANK			Water	50	mL	50	1.000000	1					HG		
QC432046	BS			Water	50	mL	50	1.000000	1		2.5			HG		
QC432047	BSD			Water	50	mL	50	1.000000	1		2.5			HG		
QC432048	SER	of 201606-018		Water	50	mL	50	1.000000	1					HG		
QC432049	MS	of 201606-018		Water	50	mL	50	1.000000	1		2.5			HG		
QC432050	MSD	of 201606-018		Water	50	mL	50	1.000000	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 3/11/08

Relinquished By: _____ Received By: _____ Date: 3/10/08

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 135774
Date Digested: 3/10/08

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2670
Page 21

Sample #	container ID	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
201606-001	D	50.0	50.0	N	H_2O
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
13					
14					
15					
16					
17	↓				
18	J				MS
19	D				
20	↓				
201749-001	K				
MB QC432045					
BS 46					
BSD 47					
MS 49					
MSD 50					

Reagent ID/ LIMS# / Time	Initials / Date
Digestion Tube Lot # SV071202	
25 mL of spike solution was added to all spikes: S8642	JXM 3/10/08
ICAL Source LIMS S#	↓
ICV / CCV LIMS S#	S8644/45/46/47
Digestion Temperature (degrees C)	95°C
Digestion Started at (time)	11:15
concentrated H_2SO_4	STBY05036
concentrated HNO_3	STBY31024
5% $KMnO_4$	K030508
5% $K_2S_2O_8$	K_2 021308
NaCl.hydroxylamine hydrochloride	H_4 021408
Stannous Chloride	$SnCl_2$ 022908
Digestion Completed at (time)	13:15
☐ filtered thru' 0.45 um syringe filter (lot #)	—

3/10/08
Prep Chemist / Date

Continued from page _____

Continued on page _____

3/11/08
Reviewed by / Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 202043
ANALYTICAL REPORT
TPH-Purgeables and/or BTXE by GC

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065-EX1 Presidio
Petaluma, CA 94954	Level : IV

Sample ID	Lab ID
1065EX307[6.0]	202043-001
1065EX308[6.0]	202043-002
1065EX309[6.5]	202043-003
1065EX310[7.0]	202043-004
1065EX311[8.5]	202043-005
DUP031908	202043-006
1065EX312[6.0]	202043-007
1065EX313[4.5]	202043-008
1065EX314[5.5]	202043-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/03/2008
Project Manager

Signature: _____ Date: 04/03/2008
Operations Manager

NELAP # 01107CA

: 00001

Curtis & Tompkins, Ltd.

CASE NARRATIVE
TPH-PURGEABLES AND/OR BTXE BY GC (EPA 8015B)

Laboratory number:	**202043**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065-EX1 Presidio**
Request Date:	**03/19/08**
Samples Received:	**03/19/08**

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

5035 samples not analyzed within 48 hours were frozen.

Low recovery was observed for gasoline C7-C12 in the MS for batch 136270; the parent sample was not a project sample, and the LCS was within limits. High recovery was also observed for gasoline C7-C12 in the MSD for batch 136270; the LCS was within limits. High RPD was also observed for gasoline C7-C12 in the MS/MSD for batch 136270.

High surrogate recovery was observed for trifluorotoluene (FID) in the MS for batch 136270; the parent sample was not a project sample.

High surrogate recoveries were observed for bromofluorobenzene (FID) in 1065EX313[4.5] (lab # 202043-008) and the MS/MSD for batch 136270.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 136219; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 136270; this analyte was detected in the sample at a level at least 10 times that of the blank.

No other analytical problems were encountered.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

202043

3835

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065-Ex 1
JOB NO.: 408807511.5 07.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 3/19/08

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) BTEX & 2-methoxyethanol; TPHg (5015M); TPHd to TPHo-w-silica gel; PAHs (8270-SIM); Title 22 Metals	FOR LAB USE ONLY
1005	X		SO	1065EX307[6.0]	SW 5IN7GE		14	X X X X X	
1025	X		SO	1065EX308[6.0]	SW 50N32E		7	X X X X X	
1040	X		SO	1065EX309[6.5]	SW 30N31E		7	X X X X X	
1105	X		SO	1065EX310[7.0]	SW 12N31E		7	X X X X X	
1125	X		SO	1065EX311[8.5]	B 21N44E		7	X X X X X	
1125	X		SO	DUP031908	B		7	X X X X X	
1150	X		SO	1065EX312[6.0]	B 26N66E		7	X X X X X	
1200	X		SO	1065EX313[4.5]	SW 3N80E		7	X X X X X	
1215	X		SO	1065EX314[5.5]	SW 29N71E		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	3/19/08 1230		3/19/08 1230			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data validation
48-hr TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

Anna Pajarillo

From: "Carlyon, Kristen" <KACARLYON@mactec.com>
To: "Anna M. Pajarillo" <anna@ctberk.com>
Cc: "Hart, Mary" <MCHART@mactec.com>; "Heassler, Mary Jo" <MHeassler@mactec.com>
Sent: Friday, March 21, 2008 1:06 PM
Subject: RE: 4084075115 - C&T Login Summary (202043)

Anna,

Please change this job to a level IV.

Kristen

From: Anna M. Pajarillo [mailto:anna@ctberk.com]
Sent: Friday, March 21, 2008 11:56 AM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Evans, Kathleen; Hart, Mary; Albrecht, Frederic
Subject: 4084075115 - C&T Login Summary (202043)

Status: Results will be emailed late today. TVH gas department is running on hold times, but are trying to fit these in today. I may not have ending CCVs, so results will be draft. -Anna

C&T Login Summary for 202043

Project: 4084075115 **Site:** Bldg 1065-EX1 Presidio **Lab Login #:** 202043 **Report Due:** 03/21/08 **PO#:** 200704465 **C&T Proj Mgr:** Anna M. Pajarillo	**Report To:** Mactec, Inc. 5341 Old Redwood Hwy Suite 300 Petaluma, CA 94954 ATTN: Mary Jo Heassler (707) 793-3800	**Bill To:** Mactec, Inc. 1105 Sanctu Suite 300 Alpharetta, (ATTN: Acc (415) 278-2

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	
1065EX307[6.0]	001	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		MS/MSD
				Soil	E8260		MS/MSD
				Soil	ETVH		MS/MSD
				Soil	MOISTURE		MS/MSD
				Soil	T26 MET		MS/MSD
				Soil	TEHM		MS/MSD, S.GEL
1065EX308[6.0]	002	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 202043 Date Received 3/19/08 Number of coolers 1
Client MACTEC Project BUILDING 1065-EX1

Date Opened 3/19/08 By (print) M. VILLANUEVA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ (NO)
How many Name Date
2B. Were custody seals intact upon arrival? ..... YES NO N/A
3. Were custody papers dry and intact when received? ..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A
Type of ice used: ☑ WET ☐ BLUE ☐ NONE Temp(°C) NO TEMP BLANK
☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... (YES) NO
If YES, what time were they transferred to freezer? 16:30
9. Did all bottles arrive unbroken/unopened? ..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... YES NO (N/A)
15. Are bubbles absent in VOA samples? ..... YES NO (N/A)
16. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins, Ltd.

Results & QC Summary

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/19/08
Units:	mg/Kg	Received:	03/19/08

Field ID:	1065EX307[6.0]	Moisture:	22%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	202043-001	Batch#:	136219
Basis:	dry	Analyzed:	03/20/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	86	65-135
Bromofluorobenzene (FID)	88	65-135

Field ID:	1065EX308[6.0]	Moisture:	15%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	202043-002	Batch#:	136219
Basis:	dry	Analyzed:	03/20/08

Analyte	Result	RL	MDL
Gasoline C7-C12	4.1 Y	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	134	65-135
Bromofluorobenzene (FID)	115	65-135

Field ID:	1065EX309[6.5]	Moisture:	16%
Type:	SAMPLE	Diln Fac:	5.000
Lab ID:	202043-003	Batch#:	136270
Basis:	dry	Analyzed:	03/23/08

Analyte	Result	RL	MDL
Gasoline C7-C12	8.5 Y	6.0	0.47

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	100	65-135

Field ID:	1065EX310[7.0]	Moisture:	16%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	202043-004	Batch#:	136219
Basis:	dry	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.23 Y	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	92	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/19/08
Units:	mg/Kg	Received:	03/19/08

Field ID:	1065EX311[8.5]	Moisture:	21%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	202043-005	Batch#:	136219
Basis:	dry	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.87 Y	0.23	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	65-135
Bromofluorobenzene (FID)	96	65-135

Field ID:	DUP031908	Moisture:	21%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	202043-006	Batch#:	136219
Basis:	dry	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Gasoline C7-C12	1.7 Y	0.24	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	65-135
Bromofluorobenzene (FID)	105	65-135

Field ID:	1065EX312[6.0]	Moisture:	16%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	202043-007	Batch#:	136219
Basis:	dry	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.040 J	0.21	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	86	65-135
Bromofluorobenzene (FID)	92	65-135

Field ID:	1065EX313[4.5]	Moisture:	15%
Type:	SAMPLE	Diln Fac:	50.00
Lab ID:	202043-008	Batch#:	136219
Basis:	dry	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Gasoline C7-C12	2,200 Y	59	4.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	65-135
Bromofluorobenzene (FID)	171 *	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/19/08
Units:	mg/Kg	Received:	03/19/08

Field ID:	1065EX314[5.5]	Moisture:	18%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	202043-009	Batch#:	136219
Basis:	dry	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.12 J	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	65-135
Bromofluorobenzene (FID)	91	65-135

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC433865	Batch#:	136219
Basis:	as received	Analyzed:	03/20/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.018 J	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	65-135
Bromofluorobenzene (FID)	84	65-135

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC434086	Batch#:	136270
Basis:	as received	Analyzed:	03/22/08

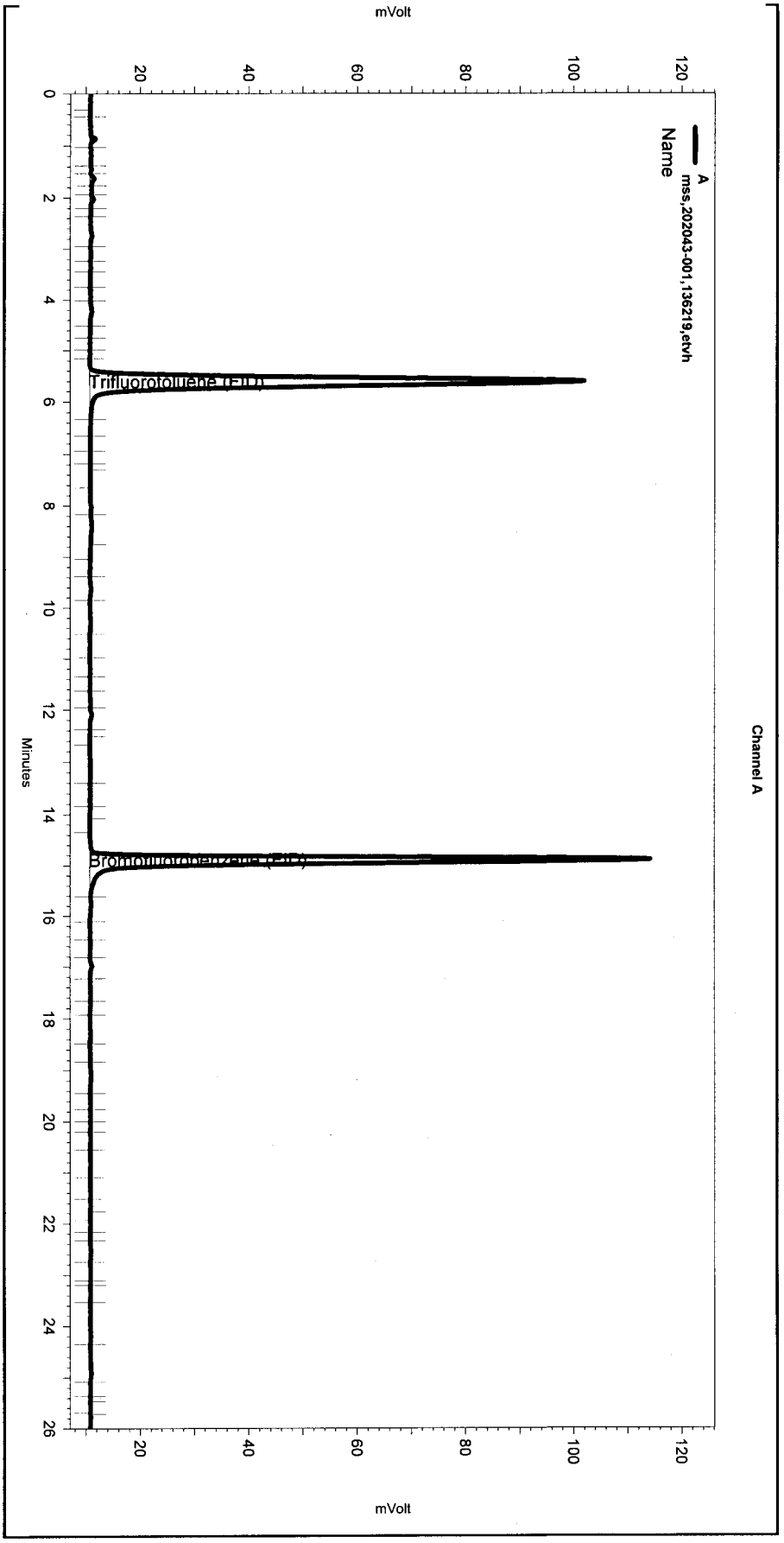
Analyte	Result	RL	MDL
Gasoline C7-C12	0.098 J	1.0	0.080

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	65-135
Bromofluorobenzene (FID)	100	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **mss,202043-001,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_011**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 9:09:13 PM
Analysis Date: 3/21/2008 8:00:39 AM
Sample Amount: 6.49 Multiplier: 6.49
Vial & pH or Core ID: d



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

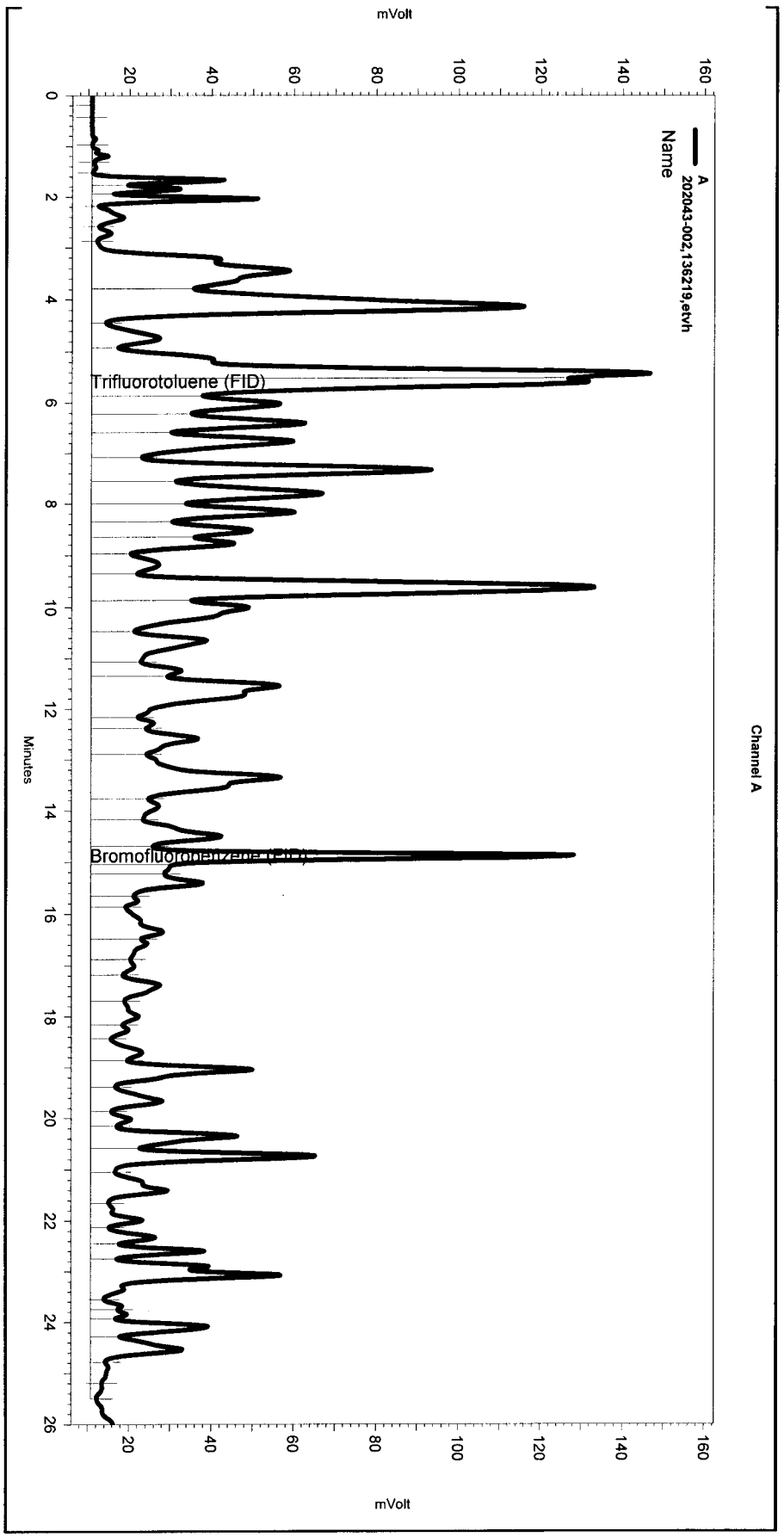
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-002,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_012**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 9:45:04 PM
Analysis Date: 3/21/2008 8:00:42 AM
Sample Amount: 5.83 Multiplier: 5.83
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

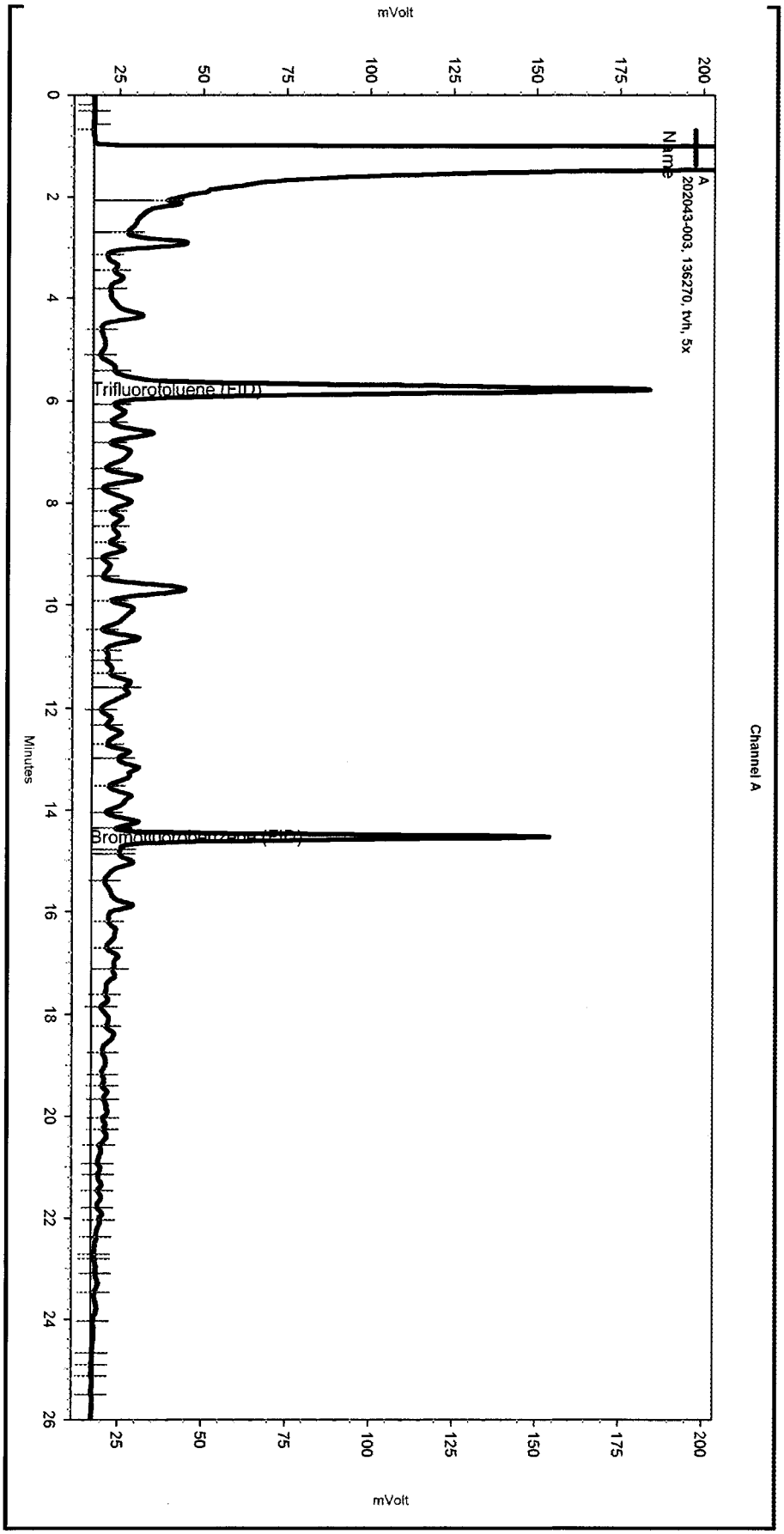
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.441	25.914	0
Yes	Split Peak	5.521	0	0
Yes	Split Peak	15.054	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **202043-003, 136270, tvh, 5x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_063**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/23/2008 10:54:51 AM
Analysis Date: 3/24/2008 12:39:36 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: d



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

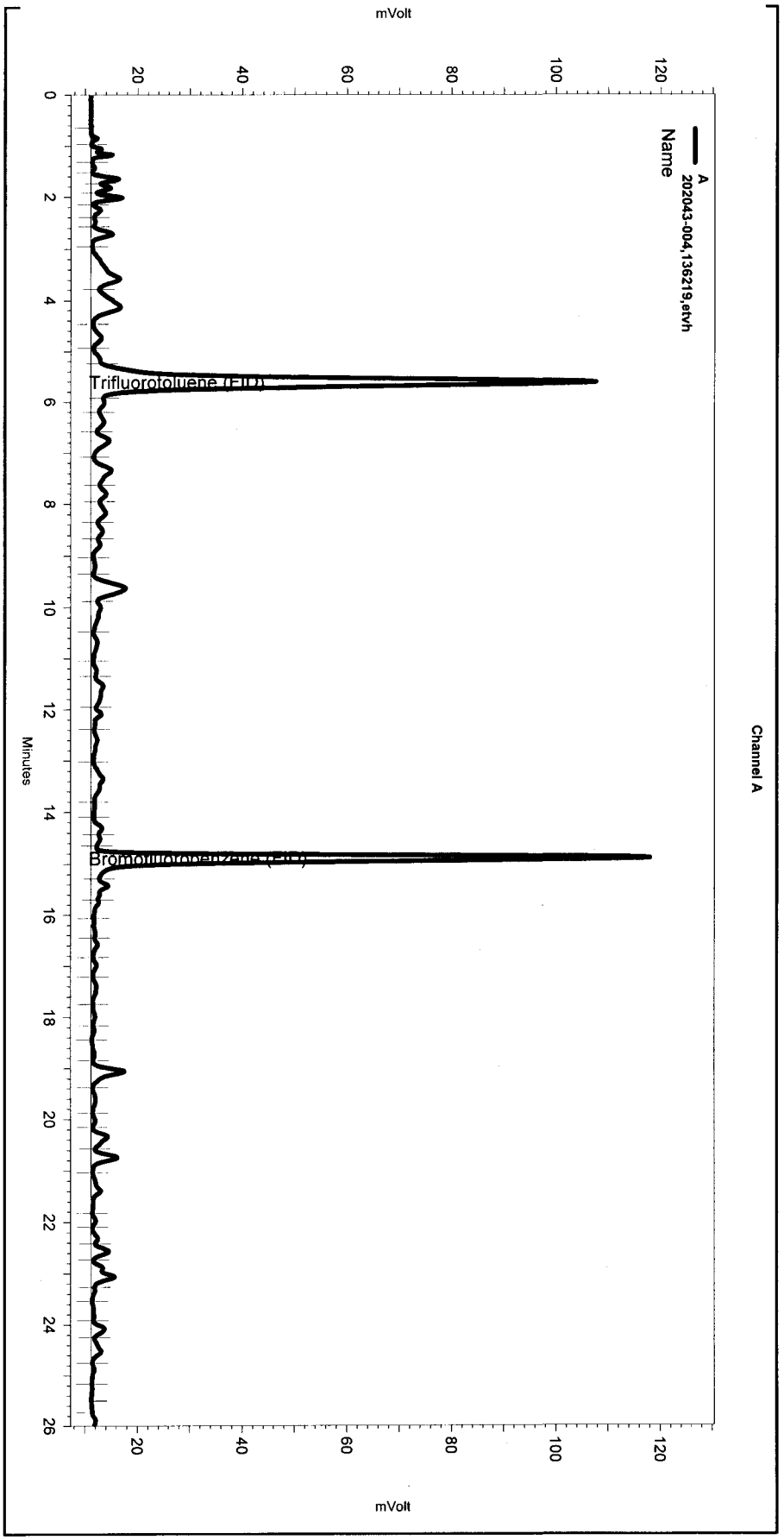
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_063

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.416	0	0
Yes	Split Peak	14.779	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-004,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_019**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 1:55:46 AM
Analysis Date: 3/21/2008 11:12:20 AM
Sample Amount: 5.95 Multiplier: 5.95
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

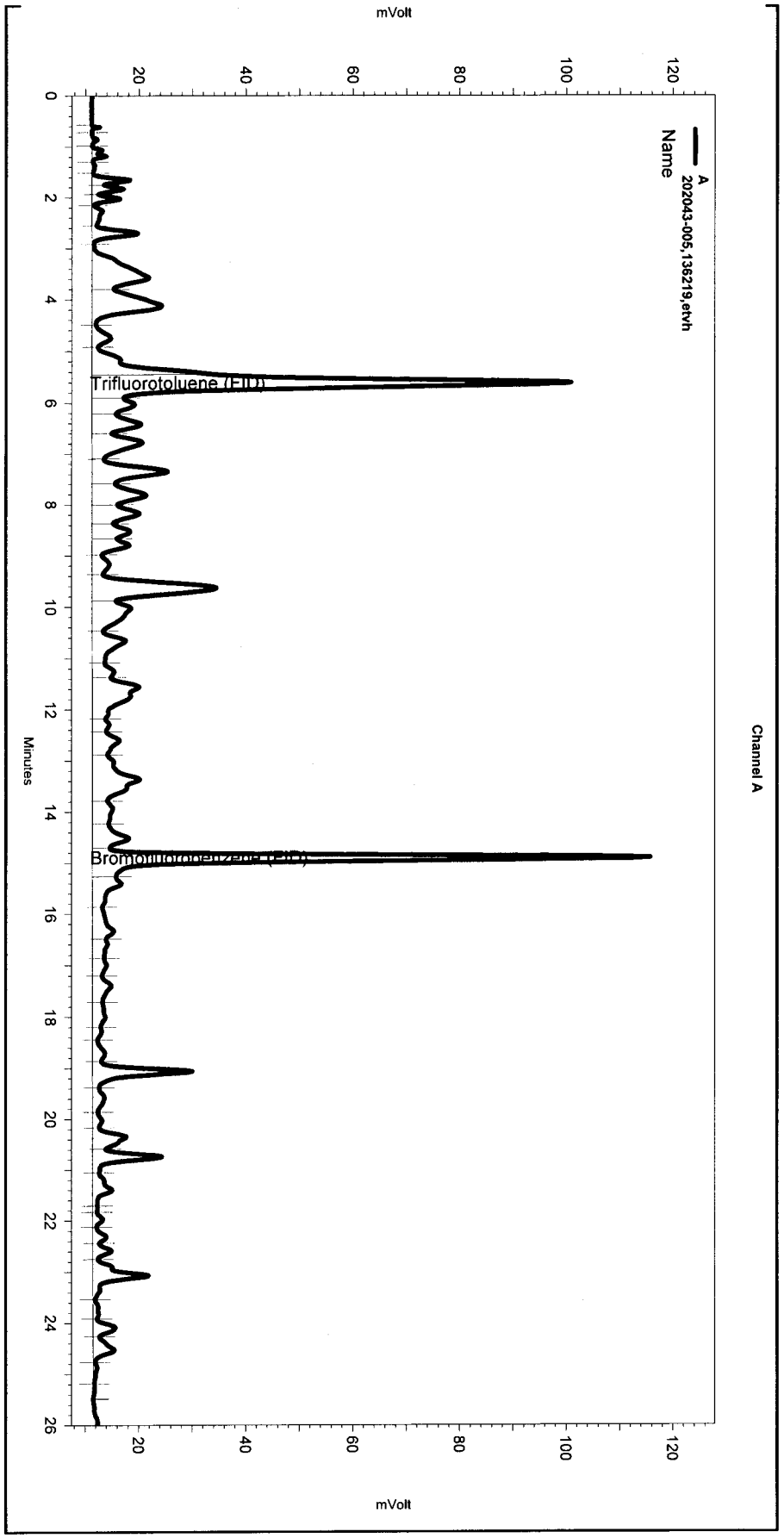
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.251	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-005,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_020**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 2:31:32 AM
Analysis Date: 3/21/2008 11:12:49 AM
Sample Amount: 5.57 Multiplier: 5.57
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

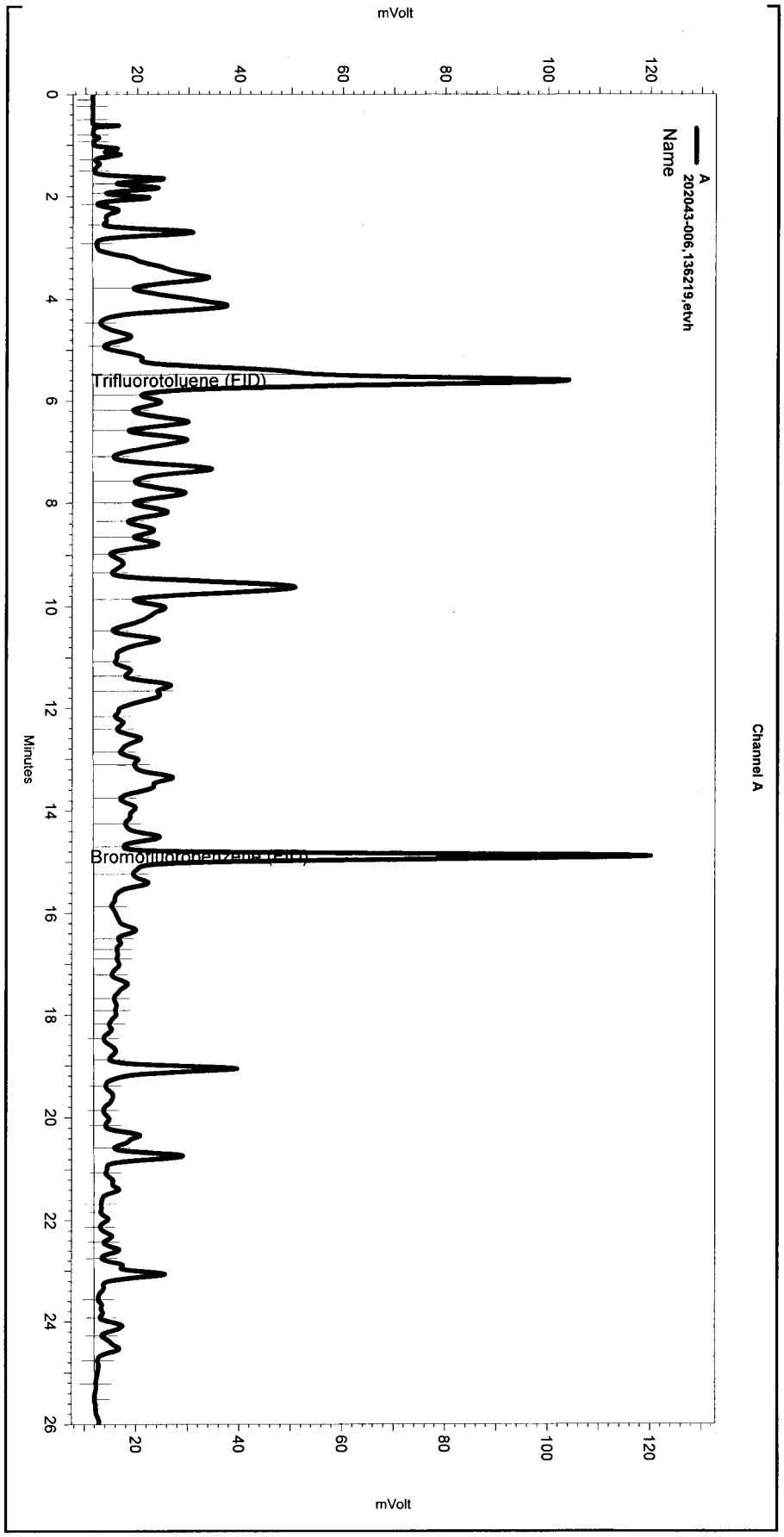
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.457	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-006,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_021**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 3:07:25 AM
Analysis Date: 3/21/2008 11:13:21 AM
Sample Amount: 5.31 Multiplier: 5.31
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

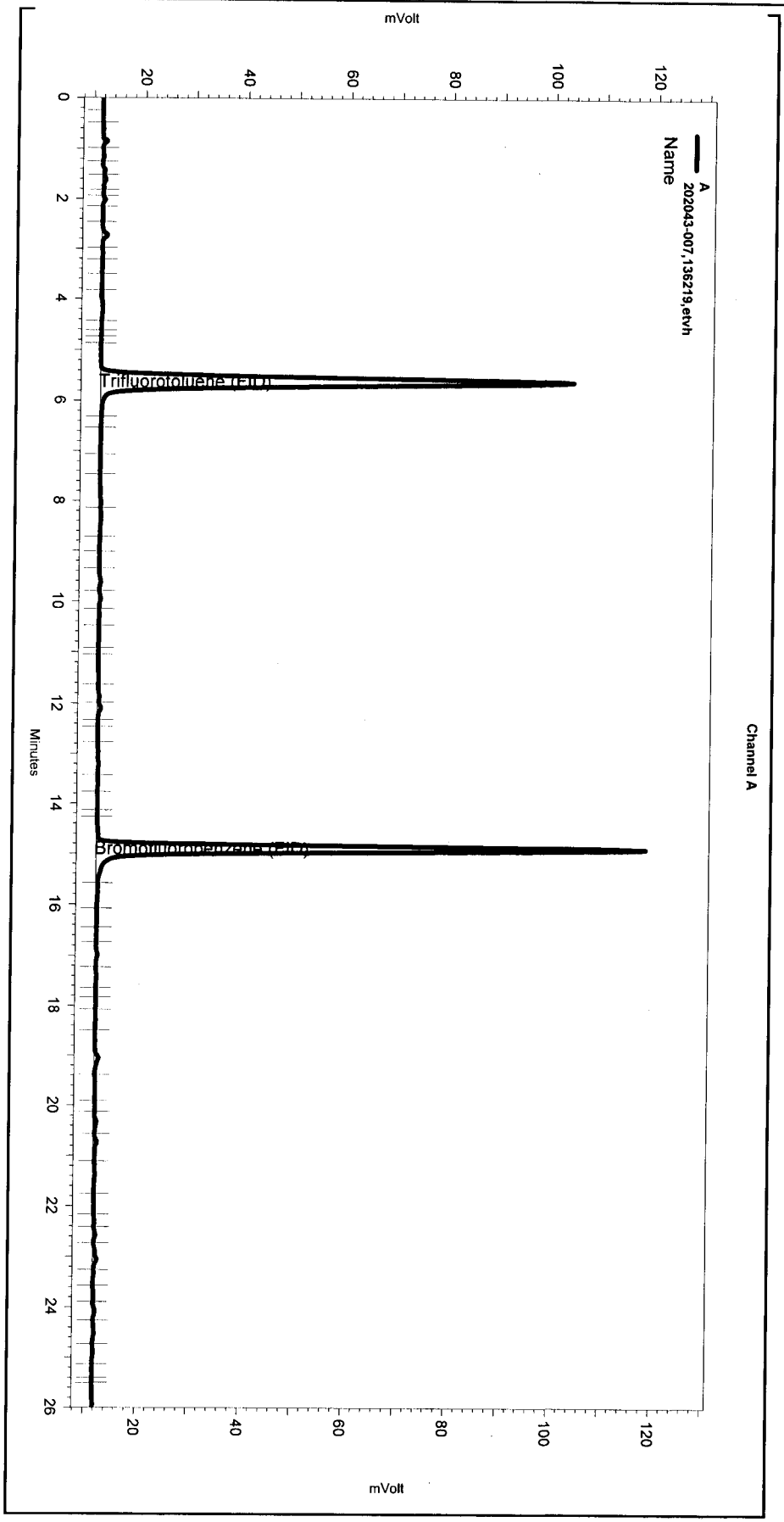
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.478	0	0

00015

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-007,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_022**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 3:43:13 AM
Analysis Date: 3/21/2008 8:01:19 AM
Sample Amount: 5.69 Multiplier: 5.69
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

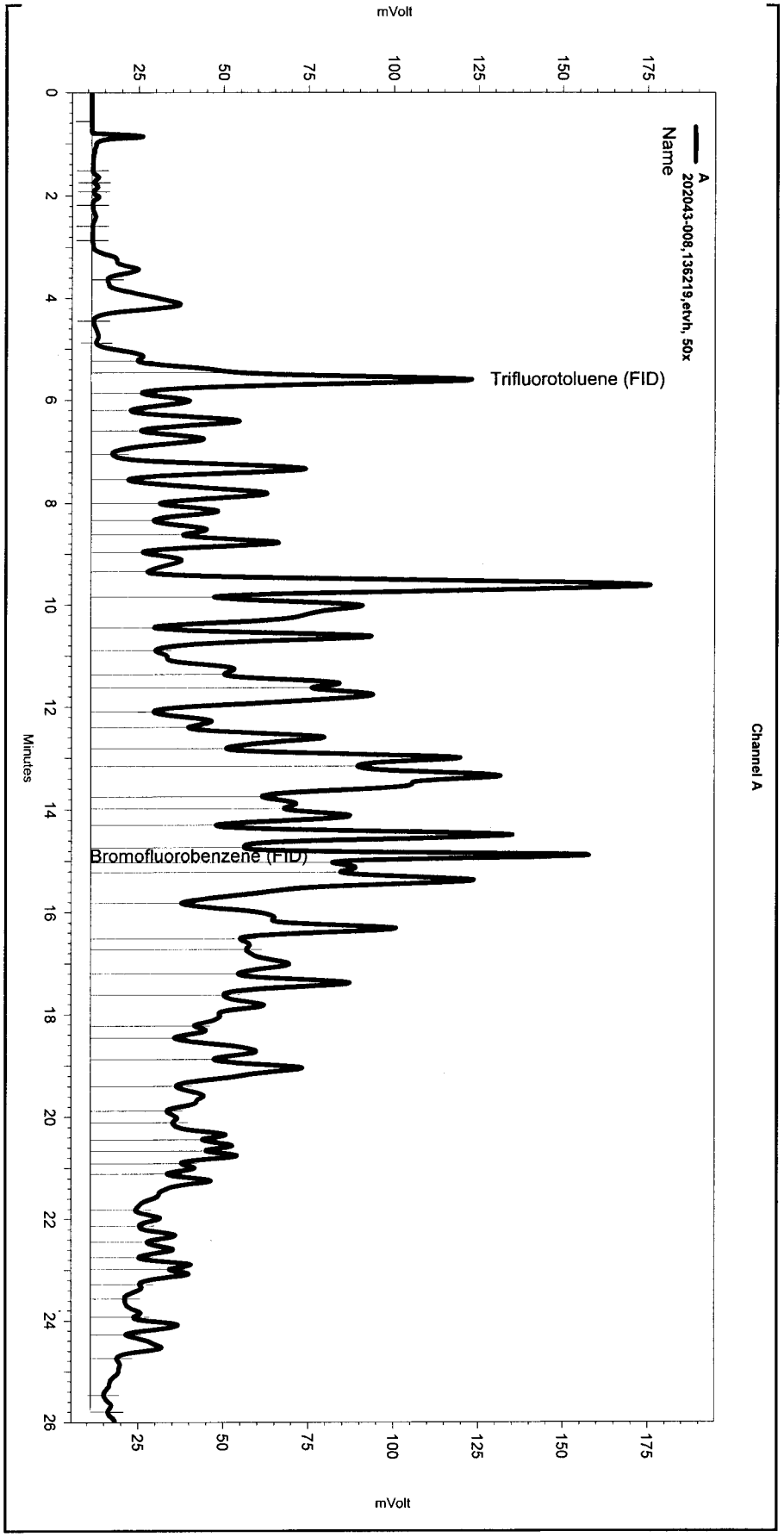
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-008,136219,etvh, 50x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_032**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 10:05:36 AM
Analysis Date: 3/21/2008 11:10:10 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

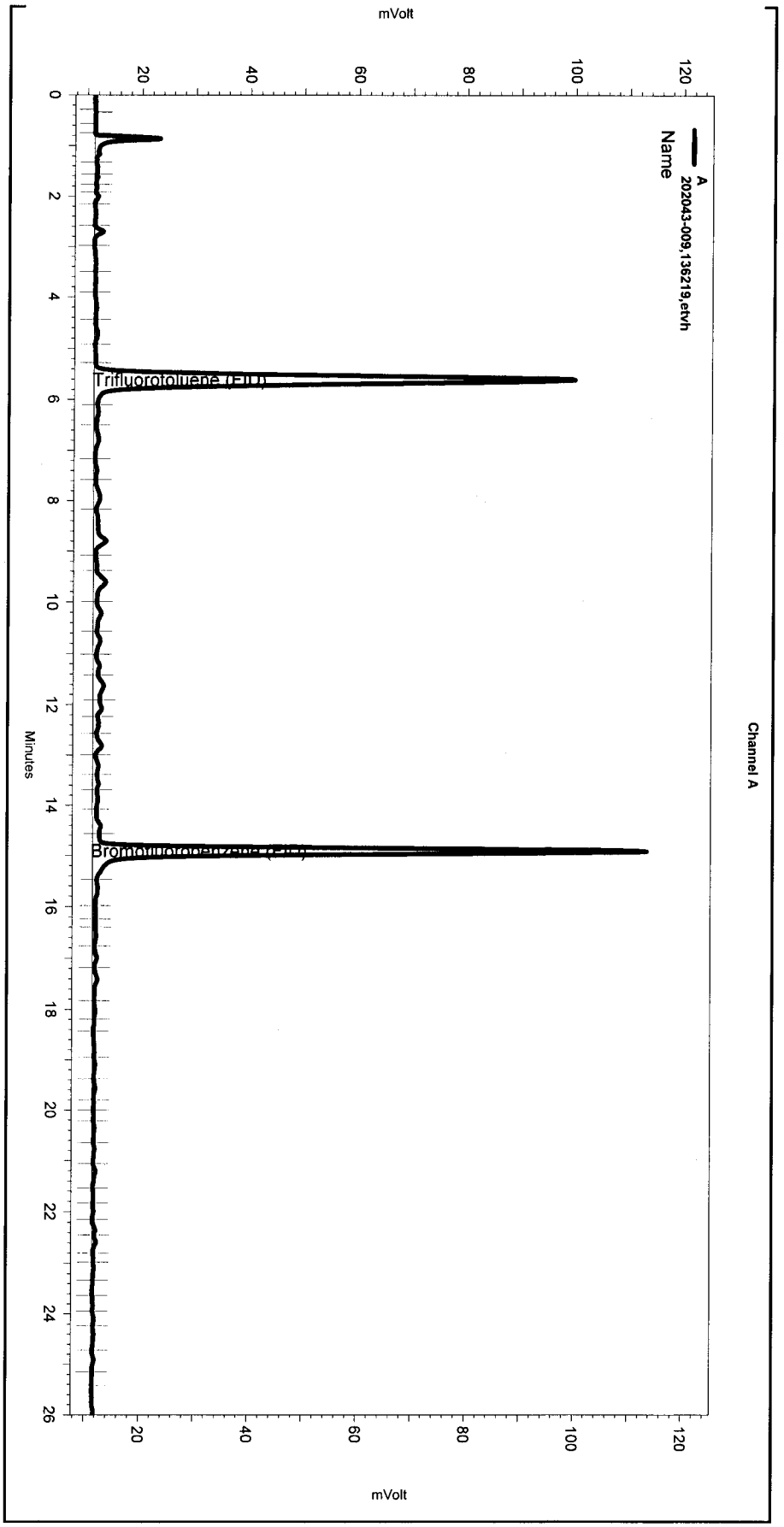
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.491	25.762	0
Yes	Split Peak	5.46	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-009,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_030**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 8:52:36 AM
Analysis Date: 3/21/2008 9:45:31 AM
Sample Amount: 6.05 Multiplier: 6.05
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

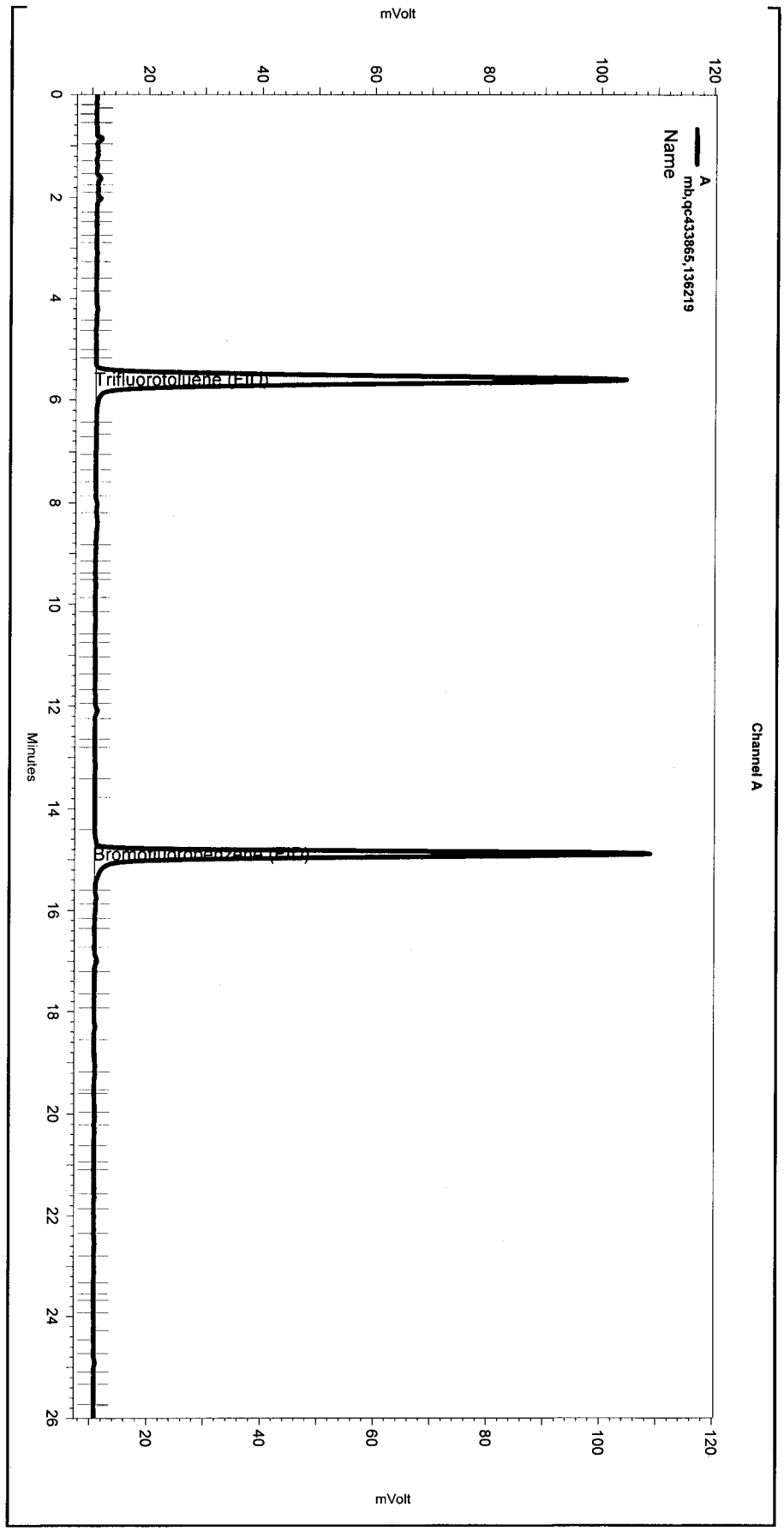
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **mb,qc433865,136219**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_010**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 8:33:19 PM
Analysis Date: 3/21/2008 8:00:35 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

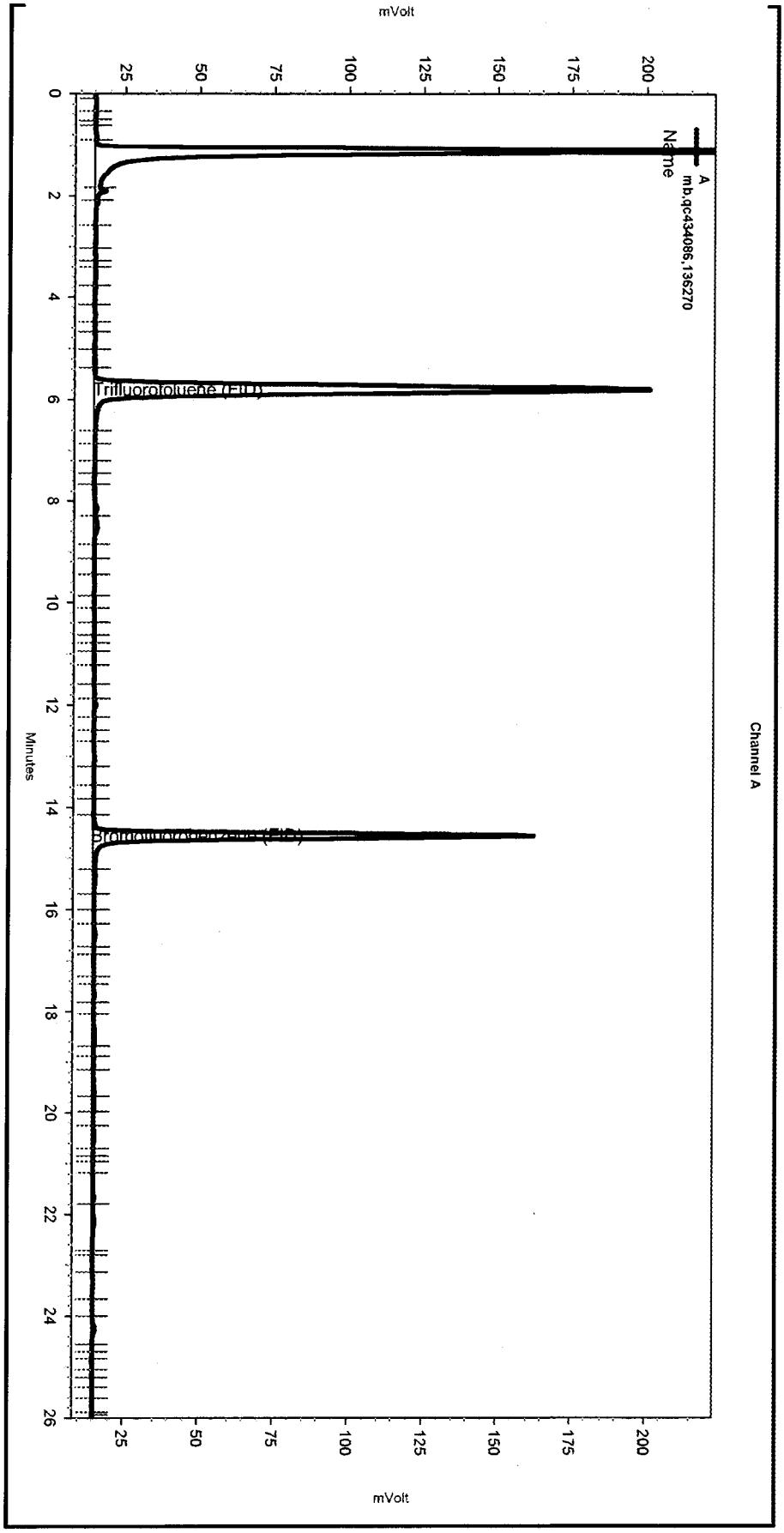
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **mb,qc434086,136270**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_041**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 8:51:14 PM
Analysis Date: 3/24/2008 12:42:08 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

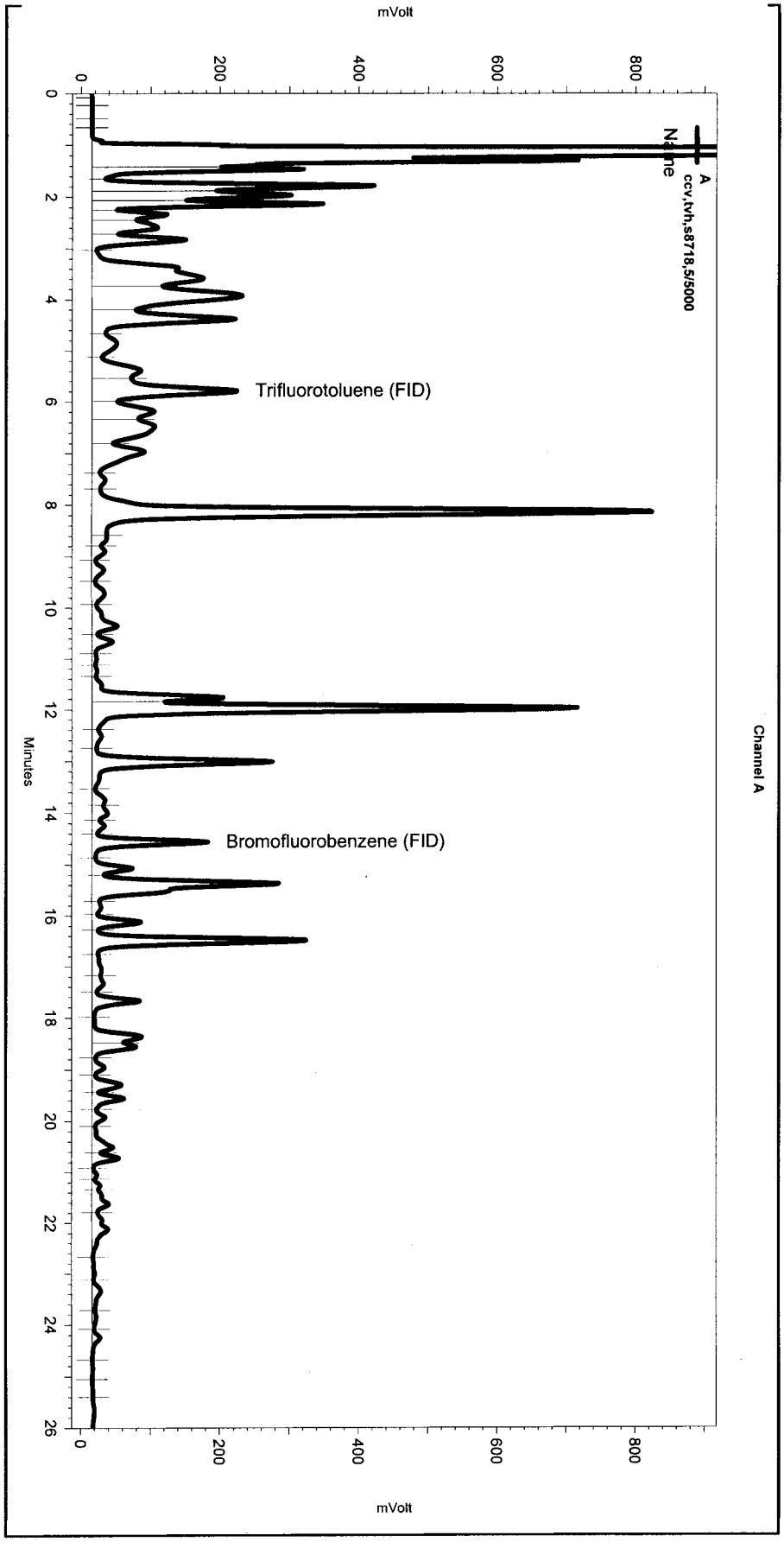
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_041

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_039**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 7:36:00 PM
Analysis Date: 3/24/2008 10:12:07 AM
Sample Amount: 1.03 Multiplier: 1.03
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_039

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC433866	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136219
Units:	mg/Kg	Analyzed:	03/20/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.639	113	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	86	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC434087	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136270
Units:	mg/Kg	Analyzed:	03/23/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.8578	86	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	96	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX307[6.0]	Diln Fac:	1.000
MSS Lab ID:	202043-001	Batch#:	136219
Matrix:	Soil	Sampled:	03/19/08
Units:	mg/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/20/08

Type: MS
Lab ID: QC433867

Moisture: 22%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.01525	2.000	2.274	113	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	65-135
Bromofluorobenzene (FID)	88	65-135

Type: MSD
Lab ID: QC433868

Moisture: 22%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.894	2.048	107	75-125	5	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	65-135
Bromofluorobenzene (FID)	86	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	201977-003	Batch#:	136270
Matrix:	Soil	Sampled:	03/14/08
Units:	mg/Kg	Received:	03/17/08
Basis:	as received	Analyzed:	03/24/08

Type: MS Lab ID: QC434088

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	19.03	10.75	19.51	4 * P	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	184 *	65-135
Bromofluorobenzene (FID)	190 *	65-135

Type: MSD Lab ID: QC434089

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.87	51.50	299 * P	75-125	90 *	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	127	65-135
Bromofluorobenzene (FID)	379 *	65-135

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

59.0

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCVOA Soil: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Name : GC04 TVH 166
Calnum : 307240439001 Cal Date : 16-JUN-2007

ICV 307240439025 (166_025 16-JUN-2007) stds: S6393 (1000X), S6435 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	4397.8	4535.9	10000	10310	ng	3	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 308079642001
Units : ng

Name : tvhBTXE055
Date : 24-FEB-2008 10:44
X Axis : R

Reviewer : LH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	055_005	308079642005	BTXE_1	24-FEB-2008 10:44	S7770 (1000X), S8275 (5000X)
L2	055_006	308079642006	MBTXE_2	24-FEB-2008 11:22	S7769 (1250X), S8275 (5000X)
L3	055_007	308079642007	MBTXE_3	24-FEB-2008 12:00	S7769 (500X), S8275 (5000X)
L4	055_008	308079642008	MBTXE_4	24-FEB-2008 12:37	S7769 (125X), S8275 (5000X)
L5	055_009	308079642009	MBTXE_5	24-FEB-2008 13:21	S7768 (1000X), S8275 (5000X)
L6	055_010	308079642010	MBTXE_6	24-FEB-2008 13:59	S7768 (500X), S8275 (5000X)
L7	055_011	308079642011	MBTXE_7	24-FEB-2008 14:37	S7768 (250X), S8275 (5000X)
L8	055_012	308079642012	MTBE_7	24-FEB-2008 15:15	S7767 (500X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3717.3	3557.5	3599.1	3511.1	3726.8	3635.7	3796.3	3565.2	AVRG		2.75E-4		3638.6	3	0.995	20	
Bromofluorobenzene (FID)	A	2198.7	2097.3	2130.9	2126.8	2431.8	2264.4	2423.6	2130.4	AVRG		4.49E-4		2225.5	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	2	450.0	-2	450.0	-1	450.0	-4	450.0	2	450.0	0	450.0	4	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-1	450.0	-6	450.0	-4	450.0	-4	450.0	9	450.0	2	450.0	9	450.0	-4

MRC 02/25/08 : MTBE Fails RSD on C; only B will be used to report MTBE.

Analyst: MRC Date: 02/25/08 Reviewer: LH Date: 02/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 328028223001
Units : ng

Name : GC07 MBTXE/SURR 019
Date : 19-JAN-2008 15:34
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	019_003	328028223003	BTXE_1	19-JAN-2008 15:34	S7770 (1000X), S7874 (5000X)
L2	019_004	328028223004	MBTXE_2	19-JAN-2008 16:10	S7769 (1250X), S7874 (5000X)
L3	019_005	328028223005	MBTXE_3	19-JAN-2008 16:46	S7769 (500X), S7874 (5000X)
L4	019_006	328028223006	MBTXE_4	19-JAN-2008 17:22	S7769 (125X), S7874 (5000X)
L5	019_007	328028223007	MBTXE_5	19-JAN-2008 17:58	S7768 (1000X), S7874 (5000X)
L6	019_008	328028223008	MBTXE_6	19-JAN-2008 18:34	S7768 (500X), S7874 (5000X)
L7	019_009	328028223009	MBTXE_7	19-JAN-2008 19:09	S7768 (250X), S7874 (5000X)
L8	019_010	328028223010	MTBE_7	19-JAN-2008 19:45	S7767 (500X), S7874 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2373.6	2349.2	2369.6	2370.6	2326.7	2556.5	2410.0	2318.5	AVRG		4.19E-4		2384.3	3	0.995	20	
Bromofluorobenzene (FID)	A	1918.3	1961.0	1916.0	1938.8	1908.2	2054.9	1954.9	1889.1	AVRG		5.15E-4		1942.6	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-1	450.0	-1	450.0	-1	450.0	-2	450.0	7	450.0	1	450.0	-3
Bromofluorobenzene (FID)	A	450.0	-1	450.0	1	450.0	-1	450.0	0	450.0	-2	450.0	6	450.0	1	450.0	-3

Analyst: MJM Date: 01/21/08 Reviewer: EAH Date: 01/21/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

328028223001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCVOA Soil: EPA 8015B

Inst : GC07
Calnum : 328095970001
Units : ng

Name : tvh066
Date : 07-MAR-2008 03:41
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	066_017	328095970017	TVH 1	07-MAR-2008 03:41	S7784 (1000X), S8275 (5000X)
L2	066_018	328095970018	TVH 2	07-MAR-2008 04:17	S7783 (1000X), S8275 (5000X)
L3	066_019	328095970019	TVH 3	07-MAR-2008 04:52	S7782 (1000X), S8275 (5000X)
L4	066_020	328095970020	TVH 4	07-MAR-2008 05:28	S7781 (2000X), S8275 (5000X)
L5	066_021	328095970021	TVH 5	07-MAR-2008 06:04	S7781 (1000X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1265.6	1125.0	1190.0	977.63	1213.5	AVRG		8.66E-4		1154.3	10	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	10	2500	-3	10000	3	25000	-15	50000	5

Analyst: PDM Date: 03/07/08 Reviewer: LH Date: 03/07/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Name : tvh066
Calnum : 328095970001 Cal Date : 07-MAR-2008

ICV 328095970023 (066_023 07-MAR-2008) stds: S8283 (1000X), S8275 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1154.3	1265.1	10000	10960	ng	10	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308117094039 File : 081_039 Time : 22-MAR-2008 19:36
Standards: S8718 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4152.9	10000	9443	ng	-6	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	5731.2	504.0	793.8	ng	**58**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2639.3	504.0	597.7	ng	**19**	15	c+

MRC 03/24/08 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

MRC 03/24/08 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: MRC Date: 03/24/08 Reviewer: LH Date: 03/25/08

+=high bias c=CCV

308117094039

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : QC434087 IDF : 1.0
Seqnum : 308117094052.1 File : 081_052 Time : 23-MAR-2008 03:52
Standards: S8718 (2000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3772.6	5000	4289	ng	-14	15	u
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	3899.0	504.0	540.1	ng	7	15	u
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2127.4	504.0	481.8	ng	-4	15	u

MRC 03/24/08 : Integrations checked by MRC. [general version]

CP 03/24/08 : sample name should read: ccv/lcs,qc434087,136270,s8718,2.5/5000. [general version]

Analyst: CP Date: 03/24/08 Reviewer: LH Date: 03/24/08

u=use

308117094052.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308117094065 File : 081_065 Time : 23-MAR-2008 12:10
Standards: S8718 (666.7X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3849.5	15000	13130	ng	-12	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	4700.3	504.0	651.1	ng	**29**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2304.3	504.0	521.8	ng	4	15	

MRC 03/24/08 [Trifluorotoluene (FID) A]: Passes control limits.

Analyst: MRC Date: 03/24/08 Reviewer: LH Date: 03/25/08

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308117094067 File : 081_067 Time : 24-MAR-2008 13:05
Standards: S8718 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3825.5	10000	8699	ng	-13	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	5225.6	504.0	723.8	ng	**44**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2422.5	504.0	548.6	ng	9	15	

MRC 03/24/08 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

MRC 03/24/08 : PID surrogates are not applicable.

Analyst: MRC Date: 03/24/08 Reviewer: LH Date: 03/25/08

+=high bias c=CCV

308117094067

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308117094075 File : 081_075 Time : 24-MAR-2008 19:47
Standards: S8718 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3985.0	10000	9061	ng	-9	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	4995.8	504.0	692.0	ng	**37**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2440.4	504.0	552.7	ng	10	15	

MRC 03/25/08 [Trifluorotoluene (FID) A]: Passes control limits.

MRC 03/25/08 : PID surrogates are not applicable.

Analyst: MRC Date: 03/25/08 Reviewer: LH Date: 03/25/08

+=high bias c=CCV

308117094075

00037

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC433866 IDF : 1.0
Seqnum : 328115877008.1 File : 080_008 Time : 20-MAR-2008 17:51
Standards: S8447 (2000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	328095970001	07-MAR-2008	1154.3	1302.0	5000	5639	ng	13	15	u
Trifluorotoluene (FID)	A	328028223001	19-JAN-2008	2384.3	2301.5	504.0	486.5	ng	-3	15	u
Bromofluorobenzene (FID)	A	328028223001	19-JAN-2008	1942.6	1677.1	504.0	435.1	ng	-14	15	u

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

328115877008.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 328115877017 File : 080_017 Time : 21-MAR-2008 00:43
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	328095970001	07-MAR-2008	1154.3	1235.0	10000	10700	ng	7	15	
Trifluorotoluene (FID)	A	328028223001	19-JAN-2008	2384.3	2557.2	504.0	540.5	ng	7	15	
Bromofluorobenzene (FID)	A	328028223001	19-JAN-2008	1942.6	1846.5	504.0	479.1	ng	-5	15	

PDM 03/21/08 : PID surrogates are not applicable.

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 328115877027 File : 080_027 Time : 21-MAR-2008 06:42
Standards: S8447 (666.7X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	328095970001	07-MAR-2008	1154.3	1183.0	15000	15370	ng	2	15	
Trifluorotoluene (FID)	A	328028223001	19-JAN-2008	2384.3	2538.2	504.0	536.5	ng	6	15	
Bromofluorobenzene (FID)	A	328028223001	19-JAN-2008	1942.6	1695.4	504.0	439.8	ng	-13	15	

PDM 03/21/08 : PID surrogates are not applicable.

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

328115877027

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 328115877035 File : 080_035 Time : 21-MAR-2008 13:57
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	328095970001	07-MAR-2008	1154.3	1306.0	10000	11310	ng	13	15	
Trifluorotoluene (FID)	A	328028223001	19-JAN-2008	2384.3	2522.8	504.0	533.3	ng	6	15	
Bromofluorobenzene (FID)	A	328028223001	19-JAN-2008	1942.6	1735.5	504.0	450.2	ng	-11	15	

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

328115877035

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 307240439

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 06/15/07 10:59
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	166_001	X	CMARK			06/15/07 10:59	1.0	1 2
002	166_002	CCV	TVH			06/15/07 11:37	1.0	3 2
003	166_003	X	CCV			06/15/07 12:15	1.0	4 2
004	166_004	X	IB			06/15/07 13:08	1.0	2
005	166_005	IB	CALIB			06/15/07 15:44	1.0	2
006	166_006	ICAL	BTXE_1			06/15/07 16:22	1.0	5 2
007	166_007	ICAL	BTXE_2			06/15/07 17:00	1.0	6 2
008	166_008	ICAL	BTXE_3			06/15/07 17:38	1.0	6 2
009	166_009	X	ICAL			06/15/07 18:16	1.0	6 2
010	166_010	ICAL	BTXE_5			06/15/07 18:54	1.0	7 2
011	166_011	ICAL	BTXE_6			06/15/07 19:31	1.0	7 2
012	166_012	ICAL	BTXE_7			06/15/07 20:09	1.0	7 2
013	166_013	ICAL	MTBE_7			06/15/07 20:47	1.0	8 2
014	166_014	X	IB			06/15/07 21:25	1.0	2
015	166_015	X	ICV			06/15/07 22:03	1.0	9 2
016	166_016	X	ICV			06/15/07 22:41	1.0	9 2
017	166_017	X	IB			06/15/07 23:19	1.0	2
018	166_018	IB	CALIB			06/15/07 23:57	1.0	2
019	166_019	ICAL	TVH 1			06/16/07 00:35	1.0	10 2
020	166_020	ICAL	TVH 2			06/16/07 01:13	1.0	11 2
021	166_021	ICAL	TVH 3			06/16/07 01:51	1.0	12 2
022	166_022	ICAL	TVH 4			06/16/07 02:29	1.0	13 2
023	166_023	ICAL	TVH 5			06/16/07 03:07	1.0	13 2
024	166_024	X	IB			06/16/07 03:45	1.0	2
025	166_025	ICV	TVH			06/16/07 04:23	1.0	3 2
026	166_026	ICV	TVH			06/16/07 05:01	1.0	3 2
027	166_027	X	IB			06/16/07 05:39	1.0	2
028	166_028	CMARKER				06/16/07 06:17	1.0	1 2
030	166_030	ICAL	BTXE_4			06/18/07 11:26	1.0	6 2
031	166_031	X	IB			06/18/07 12:04	1.0	2
032	166_032	ICV	MBTXE			06/18/07 12:42	1.0	9 2
033	166_033	IB	CALIB			06/18/07 13:30	1.0	2
034	166_034	ICAL	TFT/BFB_1			06/18/07 14:14	1.0	14
035	166_035	ICAL	TFT/BFB_2			06/18/07 14:54	1.0	15
036	166_036	ICAL	TFT/BFB_3			06/18/07 15:48	1.0	16
037	166_037	ICAL	TFT/BFB_4			06/18/07 16:37	1.0	17
038	166_038	ICAL	TFT/BFB_5			06/18/07 17:20	1.0	18

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Standards used: 1=S6383 2=S6435 3=S6393 4=S5943 5=S6305 6=S6304 7=S6303 8=S6302 9=S6204 10=S5937 11=S5936 12=S5935 13=S5934 14=S5951 15=S5952 16=S5953 17=S5954 18=S5955

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 308079642

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 02/24/08 07:22
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	055_001	X	CMARK			02/24/08 07:22	1.0	1 2
002	055_002	CCV	TVH			02/24/08 08:00	1.0	3 2
003	055_003	X	IB			02/24/08 08:50	1.0	2
004	055_004	IB	IB			02/24/08 10:07	1.0	2
005	055_005	ICAL	BTXE_1			02/24/08 10:44	1.0	4 2
006	055_006	ICAL	MBTXE_2			02/24/08 11:22	1.0	5 2
007	055_007	ICAL	MBTXE_3			02/24/08 12:00	1.0	5 2
008	055_008	ICAL	MBTXE_4			02/24/08 12:37	1.0	5 2
009	055_009	ICAL	MBTXE_5			02/24/08 13:21	1.0	6 2
010	055_010	ICAL	MBTXE_6			02/24/08 13:59	1.0	6 2
011	055_011	ICAL	MBTXE_7			02/24/08 14:37	1.0	6 2
012	055_012	ICAL	MTBE_7			02/24/08 15:15	1.0	7 2
013	055_013	IB	IB			02/24/08 15:52	1.0	2
014	055_014	X	MBTXE			02/24/08 16:30	1.0	8 2
015	055_015	ICV	MBTXE			02/24/08 17:08	1.0	8 2

Analyst: MRC Date: 02/25/08 Reviewer: LH Date: 02/25/08

Standards used: 1=S8201 2=S8275 3=S8391 4=S7770 5=S7769 6=S7768 7=S7767 8=S8465

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 308117094

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 03/21/08 07:34
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	081_001	X	CMARK			03/21/08 07:34	1.0	1 2	
002	081_002	X	CCV			03/21/08 08:12	1.0	3 2	
003	081_003	X	CCV			03/21/08 08:49	1.0	3 2	
004	081_004	X	CCV			03/21/08 09:27	1.0	4 2	
005	081_005	X	CCV			03/21/08 10:45	1.0	3 2	
006	081_006	CCV/BS	QC434005	Soil	136249	03/21/08 11:23	1.0	4 2	
007	081_007	X	IB			03/21/08 12:18	1.0	2	
008	081_008	BLANK	QC434004	Soil	136249	03/21/08 13:24	1.0	2	
009	081_009	X	QC434006		136249	03/21/08 15:31	2000	2	
010	081_010	SAMPLE	202019-005	Soil	136249	03/21/08 16:08	1.0	2	
011	081_011	SAMPLE	202019-004	Soil	136249	03/21/08 16:46	1.0	2	
012	081_012	SAMPLE	202019-003	Soil	136249	03/21/08 17:24	1.0	2	
013	081_013	SAMPLE	202019-002	Soil	136249	03/21/08 18:01	1.0	2	
014	081_014	SAMPLE	202019-001	Soil	136249	03/21/08 18:39	1.0	2	
015	081_015	X	IB			03/21/08 19:16	1.0	2	
016	081_016	SAMPLE	202019-006	Soil	136249	03/21/08 19:54	1.0	2	
017	081_017	SAMPLE	202019-007	Soil	136249	03/21/08 20:32	1.0	2	
018	081_018	CCV	TVH			03/21/08 21:10	1.0	4 2	
019	081_019	BSD	QC434006	Soil	136249	03/21/08 21:50	1.0	4 2	
020	081_020	SAMPLE	202019-009	Soil	136249	03/21/08 22:28	1.0	2	
021	081_021	SAMPLE	202019-010	Soil	136249	03/21/08 23:05	1.0	2	
022	081_022	SAMPLE	202019-008	Soil	136249	03/21/08 23:43	1.0	2	
023	081_023	SAMPLE	202019-011	Soil	136249	03/22/08 00:21	1.0	2	
024	081_024	X	IB			03/22/08 00:58	1.0	2	
025	081_025	X	CMARK			03/22/08 01:36	1.0	5 2	
026	081_026	CCV	TVH			03/22/08 02:13	1.0	4 2	
027	081_027	X	CCV			03/22/08 02:51	1.0	4 2	
028	081_028	SAMPLE	202019-007	Soil	136249	03/22/08 11:15	1.0	2	
029	081_029	SAMPLE	202019-008	Soil	136249	03/22/08 11:53	1.0	2	
030	081_030	SAMPLE	202019-009	Soil	136249	03/22/08 12:30	1.0	2	
031	081_031	SAMPLE	202019-010	Soil	136249	03/22/08 13:08	1.0	2	
032	081_032	SAMPLE	202019-011	Soil	136249	03/22/08 13:46	1.0	2	
033	081_033	X	IB			03/22/08 14:40	1.0	2	
034	081_034	CCV	TVH			03/22/08 15:27	1.0	4 2	
035	081_035	MSS	201977-003	Soil	136270	03/22/08 17:03	1.0	2	
036	081_036	MS	QC434088	Soil	136270	03/22/08 17:43	1.0	4 2	3:GAS:7-12=84000
037	081_037	MSD	QC434089	Soil	136270	03/22/08 18:20	1.0	4 2	3:GAS:7-12=60000
038	081_038	SAMPLE	201977-004	Soil	136270	03/22/08 18:58	1.0	2	
039	081_039	CCV	TVH			03/22/08 19:36	1.0	4 2	
040	081_040	X	CCV			03/22/08 20:13	1.0	4 2	
041	081_041	BLANK	QC434086	Soil	136270	03/22/08 20:51	1.0	2	
042	081_042	SAMPLE	201865-001	Soil	136270	03/22/08 21:28	1.0	2	
043	081_043	SAMPLE	201865-002	Soil	136270	03/22/08 22:06	1.0	2	
044	081_044	SAMPLE	201865-003	Soil	136270	03/22/08 22:51	1.0	2	
045	081_045	SAMPLE	201865-004	Soil	136270	03/22/08 23:28	1.0	2	
046	081_046	SAMPLE	201865-005	Soil	136270	03/23/08 00:06	1.0	2	
047	081_047	SAMPLE	201875-005	Soil	136270	03/23/08 00:44	1.0	2	
048	081_048	SAMPLE	201875-004	Soil	136270	03/23/08 01:21	1.0	2	
049	081_049	SAMPLE	201875-003	Soil	136270	03/23/08 01:59	1.0	2	
050	081_050	X	IB			03/23/08 02:37	1.0	2	
051	081_051	X	CMARK			03/23/08 03:14	1.0	5 2	
052	081_052	CCV/LCS	QC434087	Soil	136270	03/23/08 03:52	1.0	4 2	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 308117094

Instrument : GC04
Method : EPA 8015B, EPA 8021B

Begun : 03/21/08 07:34
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	081_053	X	CCV			03/23/08 04:30	1.0	4 2	
054	081_054	SAMPLE	201876-002	Soil	136270	03/23/08 05:07	1.0	2	
055	081_055	SAMPLE	201876-003	Soil	136270	03/23/08 05:45	1.0	2	
056	081_056	SAMPLE	201876-004	Soil	136270	03/23/08 06:22	1.0	2	
057	081_057	SAMPLE	201876-005	Soil	136270	03/23/08 07:00	1.0	2	
058	081_058	SAMPLE	201876-006	Soil	136270	03/23/08 07:40	1.0	2	
059	081_059	SAMPLE	201876-001	Soil	136270	03/23/08 08:18	1.0	2	
060	081_060	X	IB			03/23/08 08:59	1.0	2	
061	081_061	SAMPLE	201875-001	Soil	136270	03/23/08 09:38	1.0	2	
062	081_062	SAMPLE	201875-002	Soil	136270	03/23/08 10:16	1.0	2	
063	081_063	SAMPLE	202043-003	Soil	136270	03/23/08 10:54	5.0	2	
064	081_064	X	CMARK			03/23/08 11:32	1.0	5 2	
065	081_065	CCV	TVH			03/23/08 12:10	1.0	4 2	
066	081_066	X	CCV			03/23/08 12:47	1.0	4 2	
067	081_067	CCV	TVH			03/24/08 13:05	1.0	4 2	
068	081_068	SAMPLE	201876-002	Soil	136270	03/24/08 13:58	1.0	2	
069	081_069	SAMPLE	201876-003	Soil	136270	03/24/08 14:36	1.0	2	
070	081_070	SAMPLE	201875-003	Soil	136270	03/24/08 15:14	1.0	2	
071	081_071	MS	QC434088	Soil	136270	03/24/08 15:52	1.0	4 2	
072	081_072	MSD	QC434089	Soil	136270	03/24/08 16:29	1.0	4 2	
073	081_073	MS	QC434088	Soil	136270	03/24/08 18:19	1.0	4 2	
074	081_074	MSD	QC434089	Soil	136270	03/24/08 18:57	1.0	4 2	3:GAS:7-12=92000
075	081_075	CCV	TVH			03/24/08 19:47	1.0	4 2	
076	081_076	X	CCV			03/24/08 20:27	1.0	4 2	
077	081_077	X	CMARK			03/24/08 21:05	1.0	5 2	
078	081_078	X	IB			03/24/08 21:42	1.0	2	
079	081_079	BLANK	QC434348	Soil	136338	03/24/08 22:20	1.0	2	
080	081_080	SAMPLE	202038-001	Soil	136338	03/24/08 22:58	1.0	2	
081	081_081	SAMPLE	202038-002	Soil	136338	03/24/08 23:35	1.0	2	
082	081_082	BS	QC434349	Soil	136338	03/25/08 00:13	1.0	4 2	
083	081_083	BSD	QC434350	Soil	136338	03/25/08 00:52	1.0	4 2	
084	081_084	CCV	TVH			03/25/08 01:31	1.0	4 2	
085	081_085	X	CMARK			03/25/08 02:09	1.0	5 2	

Analyst: MRC Date: 03/24/08 Reviewer: _____ Date: _____

Standards used: 1=S8201 2=S8641 3=S8449 4=S8718 5=S8671

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328028223

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 01/19/08 14:23
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	019_001	X	IB			01/19/08 14:23	1.0	1
002	019_002	IB	CALIB			01/19/08 14:58	1.0	1
003	019_003	ICAL	BTXE_1			01/19/08 15:34	1.0	2 1
004	019_004	ICAL	MBTXE_2			01/19/08 16:10	1.0	3 1
005	019_005	ICAL	MBTXE_3			01/19/08 16:46	1.0	3 1
006	019_006	ICAL	MBTXE_4			01/19/08 17:22	1.0	3 1
007	019_007	ICAL	MBTXE_5			01/19/08 17:58	1.0	4 1
008	019_008	ICAL	MBTXE_6			01/19/08 18:34	1.0	4 1
009	019_009	ICAL	MBTXE_7			01/19/08 19:09	1.0	4 1
010	019_010	ICAL	MTBE_7			01/19/08 19:45	1.0	5 1
011	019_011	X	IB			01/19/08 20:21	1.0	1
012	019_012	X	ICV			01/19/08 20:57	1.0	6 1
013	019_013	ICV	MBTXE			01/19/08 21:33	1.0	6 1

Analyst: MJM Date: 01/21/08 Reviewer: EAH Date: 01/21/08

Standards used: 1=S7874 2=S7770 3=S7769 4=S7768 5=S7767 6=S7868

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328095970

Instrument : GC07 Begun : 03/06/08 15:30
Method : EPA 8015B, EPA 8021B SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	066_001	X	BTXE			03/06/08 15:30	1.0	1 2
002	066_002	CCV/BS	QC431678	Water	135680	03/06/08 16:06	1.0	1 2
003	066_003	BSD	QC431679	Water	135680	03/06/08 16:42	1.0	1 2
004	066_004	X	IB			03/06/08 19:02	1.0	2
005	066_005	BLANK	QC431677	Water	135680	03/06/08 20:29	1.0	2
006	066_006	SAMPLE	201479-010	Water	135680	03/06/08 21:05	1.0	2
007	066_007	SAMPLE	201479-011	Water	135680	03/06/08 21:41	1.0	2
008	066_008	SAMPLE	201479-012	Water	135680	03/06/08 22:17	1.0	2
009	066_009	SAMPLE	201479-013	Water	135680	03/06/08 22:53	1.0	2
010	066_010	SAMPLE	201479-014	Water	135680	03/06/08 23:29	1.0	2
011	066_011	CCV	BTXE			03/07/08 00:04	1.0	1 2
012	066_012	X	BTXE			03/07/08 00:40	1.0	1 2
013	066_013	CMARKER	CMARK			03/07/08 01:16	1.0	3 2
014	066_014	X	IB			03/07/08 01:52	1.0	2
015	066_015	X	IB			03/07/08 02:28	1.0	2
016	066_016	X	IB			03/07/08 03:04	1.0	2
017	066_017	ICAL	TVH 1			03/07/08 03:41	1.0	4 2
018	066_018	ICAL	TVH 2			03/07/08 04:17	1.0	5 2
019	066_019	ICAL	TVH 3			03/07/08 04:52	1.0	6 2
020	066_020	ICAL	TVH 4			03/07/08 05:28	1.0	7 2
021	066_021	ICAL	TVH 5			03/07/08 06:04	1.0	7 2
022	066_022	X	IB			03/07/08 06:40	1.0	2
023	066_023	ICV	TVH			03/07/08 07:16	1.0	8 2
024	066_024	X	ICV			03/07/08 07:52	1.0	8 2
025	066_025	X	ICV			03/07/08 08:51	1.0	9 2

Analyst: PDM Date: 03/07/08 Reviewer: LH Date: 03/07/08

Standards used: 1=S8449 2=S8275 3=S8201 4=S7784 5=S7783 6=S7782 7=S7781 8=S8283 9=S7780

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328115877

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 03/20/08 11:17
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	080_001	X	CMARK			03/20/08 11:17	1.0	1 2	
002	080_002	X	TEST RUN OF POSSIBLY			03/20/08 11:53	1.0	2	
003	080_003	X	BTXE			03/20/08 12:29	1.0	3 2	
004	080_004	X	CCV			03/20/08 14:14	1.0	4 2	
005	080_005	X	CCV			03/20/08 15:11	1.0	4 2	
006	080_006	X	CCV			03/20/08 16:24	1.0	5 2	
007	080_007	X	CCV			03/20/08 17:00	1.0	5 2	
008	080_008	CCV/LCS	QC433866	Soil	136219	03/20/08 17:51	1.0	5 2	
009	080_009	X	IB			03/20/08 19:57	1.0	2	
010	080_010	BLANK	QC433865	Soil	136219	03/20/08 20:33	1.0	2	
011	080_011	MSS	202043-001	Soil	136219	03/20/08 21:09	1.0	2	
012	080_012	SAMPLE	202043-002	Soil	136219	03/20/08 21:45	1.0	2	
013	080_013	SAMPLE	202043-003	Soil	136219	03/20/08 22:20	1.0	2	3:GAS:7-12=440000
014	080_014	MS	QC433867	Soil	136219	03/20/08 22:56	1.0	5 2	
015	080_015	MSD	QC433868	Soil	136219	03/20/08 23:32	1.0	5 2	
016	080_016	X	CCV			03/21/08 00:08	1.0	5 2	
017	080_017	CCV	TVH			03/21/08 00:43	1.0	5 2	
018	080_018	X	CMARK			03/21/08 01:19	1.0	1 2	
019	080_019	SAMPLE	202043-004	Soil	136219	03/21/08 01:55	1.0	2	
020	080_020	SAMPLE	202043-005	Soil	136219	03/21/08 02:31	1.0	2	
021	080_021	SAMPLE	202043-006	Soil	136219	03/21/08 03:07	1.0	2	
022	080_022	SAMPLE	202043-007	Soil	136219	03/21/08 03:43	1.0	2	
023	080_023	SAMPLE	202043-008	Soil	136219	03/21/08 04:19	1.0	2	3:GAS:7-12=160000
024	080_024	SAMPLE	202043-009	Soil	136219	03/21/08 04:54	1.0	2	
025	080_025	IB	POSSIBLE CARRYOVER			03/21/08 05:30	1.0	2	
026	080_026	X	CCV			03/21/08 06:06	1.0	5 2	
027	080_027	CCV	TVH			03/21/08 06:42	1.0	5 2	
028	080_028	X	CMARK			03/21/08 07:19	1.0	1 2	
029	080_029	X	MEOH MB			03/21/08 08:16	5.0	2	
030	080_030	SAMPLE	202043-009	Soil	136219	03/21/08 08:52	1.0	2	
031	080_031	SAMPLE	202043-003	Soil	136219	03/21/08 09:29	50.0	2	
032	080_032	SAMPLE	202043-008	Soil	136219	03/21/08 10:05	50.0	2	
033	080_033	SAMPLE	202043-003	Soil	136219	03/21/08 10:58	25.0	2	
034	080_034	SAMPLE	202043-003	Soil	136219	03/21/08 12:19	10.0	2	
035	080_035	CCV	TVH			03/21/08 13:57	1.0	5 2	
036	080_036	X	CCV			03/21/08 16:47	1.0	5 2	
037	080_037	X	IB			03/21/08 17:23	1.0	2	
038	080_038	CCV	TVH			03/21/08 17:59	1.0	5 2	
039	080_039	MSS	201841-002	Water	136250	03/21/08 18:35	1.0	2	
040	080_040	MS	QC434011	Water	136250	03/21/08 19:11	1.0	4 2	
041	080_041	MSD	QC434012	Water	136250	03/21/08 19:47	1.0	4 2	
042	080_042	X	IB			03/21/08 20:22	1.0	2	
043	080_043	SAMPLE	201841-001	Water	136250	03/21/08 20:58	1.0	2	
044	080_044	SAMPLE	201841-003	Water	136250	03/21/08 21:34	1.0	2	
045	080_045	SAMPLE	201835-040	Water	136250	03/21/08 22:10	1.0	2	
046	080_046	SAMPLE	201835-039	Water	136250	03/21/08 22:46	1.0	2	
047	080_047	SAMPLE	201835-036	Water	136250	03/21/08 23:22	1.0	2	
048	080_048	CCV/LCS	QC434010	Water	136250	03/21/08 23:57	1.0	4 2	
049	080_049	X	CCV			03/22/08 00:33	1.0	5 2	
050	080_050	SAMPLE	201886-001	Water	136250	03/22/08 01:09	1.0	2	
051	080_051	SAMPLE	201886-002	Water	136250	03/22/08 01:45	1.0	2	
052	080_052	SAMPLE	201886-003	Water	136250	03/22/08 02:21	1.0	2	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328115877

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 03/20/08 11:17
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	080_053	SAMPLE	201886-004	Water	136250	03/22/08 02:57	1.0	2	
054	080_054	SAMPLE	201886-005	Water	136250	03/22/08 03:33	1.0	2	
055	080_055	SAMPLE	201886-006	Water	136250	03/22/08 04:08	1.0	2	
056	080_056	SAMPLE	201886-007	Water	136250	03/22/08 04:44	1.0	2	
057	080_057	SAMPLE	201886-008	Water	136250	03/22/08 05:20	1.0	2	
058	080_058	BLANK	QC434009	Water	136250	03/22/08 05:56	1.0	2	
059	080_059	X	CMARK			03/22/08 06:32	1.0	1 2	
060	080_060	CCV	TVH			03/22/08 07:07	1.0	5 2	

Analyst: PDM Date: 03/25/08 Reviewer: _____ Date: _____

Standards used: 1=S8201 2=S8641 3=S8449 4=S8718 5=S8447

00045

34
PROJECT MeOH Extract log

Notebook No. BK2246
Continued From Page —

Date/Analyst	Sample ID/Core ID/Jar	Weight (g)	MeOH (ml)	Comments
PdM 3/1/08	201583-004 B	4.67	4.70	BJCT981 alias of 201488-011
	-005	5.40	5.40	PdM 3/12/08 -014
	-009	5.38	5.40	-016
	-010	5.26	5.50	-017
	MeOH MB	—	5.0	BJCT981
	201310-001A	5.04	↓	↓
	200869-012A	4.97	↓	↓
CP 3/2/08	MeOH MB	—	5.0	BJCT981
	201583-003 C	4.88	4.90	↓ alias of 201488-010
PdM 3/4/08	MeOH MB	—	5.0	BJCT981
	201381-009 D	4.33	4.30	↓
	201533-007 ↓	3.35	3.40	↓
MRC 3-7-08	201629-007 A	5.04	5.0	BJ CT981
	014	4.99	5.0	↓
	019	5.03	5.0	↓
	MeOH MB	—	5.0	↓
CP 3/7/08	MeOH MB	—	5.0	BJCT981
	201711-001 A	4.56	4.6	↓
PdM 3/8/08	201629-036 A	5.0	5.0	BJCT981
	MeOH MB	—	↓	↓
	201535-001 C	5.0	5.0	↓
	201726-001 K	6.7	6.70	↓
PdM 3/12/08	201660-001 C	6.68	6.70	BJCT981 / PdM 3/12/08 BJCV200
	MeOH MB	—	5.0	↓ ↓
PdM 3/14/08	MeOH MB	—	5.0	BJCV200
	201618-001A	4.98	↓	↓
PdM post dated 3/14/08	201800-001A	4.98	5.0	↓
MRC 3-17-08	201618-035A	5.04	5.0	BJ CT981
	MeOH MB	—	5.0	↓
ATL 3/18/08	MeOH MB	—	5.0	BJ CT981
	201665-01B	5.00	5.0	↓
	201665-02A	4.99	5.0	↓
3/21/08 PdM	MeOH MB	—	5.0	BJCV200
	202043-003 C	6.04	6.0	↓
	↓ -008 ↓	4.98	5.0	↓

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
PdM	3/1/08		

Date/Analyst	Sample ID/Code ID/Jar	Weight (g)	MeOH (mV)	Comments
3/31/08 MB	MeOH MB	—	5.00	BJCV200
	201962-002 C	5.28	5.30	
	-003 D	5.02	5.00	
	-005 F	5.06	5.10	
	-006 C	4.91	4.90	
	-007 C	3.90	3.90	
	-008 C	5.18	5.20	
	-010 C	4.70	4.70	
	-011 C	5.11	5.10	
	-012 D	4.89	4.90	
	-013 A	5.30	5.30	
	-015 E	5.44	5.40	
	-016 C	4.87	4.90	
3/31/08 PdM	202043-003 D	5.69	5.70	BJCV200

Continued on Page

Read and Understood By

PdM — Signed — 3/31/08 — Date — Signed — Date

66 Project TVH / BTXE Soil Weight Log BK2583

Continued from Page

Core/Sample/Jar ID	Weight(g)	Comp?	NaHSO4?	Comments
202043-001 D	6.49	NO	NO	JLM 3/20/08
-002 B	5.83			
-003	6.27			
-004	5.95			
-005 C	5.57			
-006 B	5.31			
-007	5.69			
-008	4.77			
-009	JLM 3/20/08 ~~5.45~~ 5.54			
MS 202043-001 F	6.41			
MSD E	6.77			
202043-009 C	6.05	NO	NO	PdM 3/21/08
202019-01 A	5.492	NO	NO	ATL 3/21/08 Encores already in vials. Measured vial minus the weight written on vial and minus 0.200g to get actual weight.
-02	5.139			
-03	4.369			
-04	4.913			
-05 B	4.896			
-06 A	5.013			
-07	4.614			
-08	4.641			
-09	4.152			
-10	4.849			
-11	5.231			
201835-033 A	0.92	NO	NO	ATL 3/21/2008, MSS
-034	0.94			201835-34 = 201835-35
-035	1.06			FD of 201835-~~35~~ 34 ATL 3/21/08
-037	1.02			ATL 3/21/2008
-038	1.08			
MS of 201835-33 A	0.94			
MSD A	0.95			

Continued on Page

Read and Understood By

Signed Date Signed Date

Project TVH/BTXE Soil Weight Log ATL 3/22/08 BK2583

Continued from Page 66

CORE/SAMPLE/JAR ID	WEIGHT(g)	COMP?	NaHSO4?	Comments
201865-04 A	1.08	NO	NO	ATL 3/22/2008
-05 A	0.96	↓	↓	FD of 201865-03 ATL 3/22/2008
201876-01 B	1.00	NO	NO	ATL 3/22/2008
-02 B	1.02			
-03 B	1.06			
-04 A	1.03			
-05 A	1.04			
-06 A	1.08	↓	↓	
201875-01 A	1.00	NO	NO	
-02 B	1.00			
-03 B	1.08			
-04 B	0.97			
-05 A	0.97	↓	↓	ATL 3/22/08
201977-03 A	0.94	NO	NO	MSS, ATL 3/22/08
MS of 201977-03A	0.96			
MSD of 201977-03A	1.01	↓	↓	
201977-04A	1.03	NO	NO	
201819-09D	4.134	NO	NO	ENCORE ATL 3/22/08
-07E	4.508	NO		
-08	4.541			
-10	4.005			
-11 D	4.197	↓	↓	
MS 201835-033A	1.08	NO	NO	PdM 3/22/08
MSD	1.07	NO	NO	
MS	0.95			
MSD	0.97	↓	↓	
201962-002 B	5.53	NO	NO	PdM 3/23/08 post dated (for MTB)
-003 C	5.14			
-005 C	5.62			
-006 D	5.19			
-007 B	5.15			
-008 B	4.10			
-010 B	5.40			
-011 B	5.22			
-012 C	5.02	↓	↓	↓

Continued on Page

ATL
Signed

3/22/08
Date

Read and Understood By

Signed

Date

Project TVH/BTXE Soil Weight Log Book BK2583

Continued from Page

Core / Sample / Jar ID	Weight (g)	Comp (?)	NaHSO4 (?)	Comments
201962 - 013 B	5.18	NO	NO	PdM 3/23/08 post dated (for MJB)
- 015 D	5.53			
- 016 D	4.73			
MS: 201977 A-003	0.93	No	No	MRC 3-24-08
MSD: " -003	0.92			
201875 -003 B	1.00			
201876 -002 B	1.01			
003 B	0.93			
MS: 201977 A -003	0.98	No	No	MRC 3-24-08
MSD: " "	0.94			

Continued on Page

PdM — Signed

3/23/08 — Date

Read and Understood By

Signed

Date

Project TVH / BTXE Soil Weight Log BK2583

Continued from Page

Core/Sample/Jar	ID	Weight(g)	Comp?	NaHSO4?	Comments
202043-001	D	6.49	NO	NO	JLM 3/20/08
-002	B	5.88			
-003		6.27			
-004		5.95			
-005	C	5.57			
-006	B	5.31			
-007		5.69			
-008		4.77			
-009		JLM 3/20/08 5.54			
MS 202043-001	F	6.41			
MSD	E	6.77			
202043-009	C	6.05	NO	NO	PdM 3/21/08
202019-01	A	5.492	NO	NO	ATL 3/21/08 Encores already in vials. Measured vial minus the weight written on vial and minus 0.200g to get actual weight.
-02		5.139			
-03		4.369			
-04		4.913			
-05	B	4.896			
-06	A	5.013			
-07		4.614			
-08		4.411			
-09		4.152			
-10		4.849			
-11		5.231			
201835-033	A	0.92	NO	NO	ATL 3/21/2008, MSS
-034		0.94			201835-34 = 201835-35
-035		1.06			FD of 201835-~~35~~ 34 ATL 3/21/08
-037		1.02			ATL 3/21/2008
-038		1.08			
MS of 201835-33	A	0.94			
MSD	A	0.95			
201954-005	B	4.32	NO	NO	PdM 3/21/08 Also 201954-19
-010		5.13			-21
-015		3.86			-22
201865-01	A	1.05	NO	NO	ATL 3/22/08
-02		0.92			
-03		0.93			

Continued on Page

PdM — Signed — 3/21/08 — Date

Read and Understood By

ATL — Signed — 3/22/08 — Date

Continued from Page 66

CORE/SAMPLE/JAR ID	WEIGHT(g)	COMP?	NaHSO4 ?	Comments
201865-04 A	1.08	NO	NO	ATL 3/22/2008
↓ -05 A	0.96	↓	↓	FD of 201865-03 ATL 3/22/2008
201876-01 B	1.00	NO	NO	ATL 3/22/2008
-02 B	1.02			
-03 B	1.06			
-04 A	1.03			
-05 A	1.04			
↓ -06 A	1.08	↓	↓	
201875-01 A	1.00	NO	NO	
-02 B	1.00			
-03 B	1.08			
-04 B	0.97			
-05 A	0.97	↓	↓	
				ATL 3/22/08
201977-03 A	0.94	NO	NO	MSS, ATL 3/22/08
MS of 201977-03A	0.96			
MSD of 201977-03A	1.01	↓	↓	
201977-04A	1.03	NO	NO	
201977-09D	4.134	NO	NO	ENCORE ATL 3/22/08
-07E	4.508	NO		
-08 ↓	4.541			
-10 ↓	4.005			
↓ -11 D	4.197	↓	↓	
MS 201835-033A	1.08	NO	NO	PdM 3/22/08
MSD ↓	1.07	NO	NO	↓
MS	0.95	↓	↓	↓
MSD ↓	0.97			
201962-002 B	5.53	NO	NO	PdM 3/23/08 posl dated (for MTB)
-003 C	5.14			
-005 C	5.62			
-006 B	5.19			
-007 B	5.15			
-008 B	4.10			
-010 B	5.40			
-011 B	5.22			
↓ -012 C	5.02	↓	↓	↓

Continued on Page

ATL — Signed

3/22/08 — Date

Read and Understood By

Signed

Date

Project TVH / BTXE Soil Weight Log BK2583

Continued from Page

Core/Sample/Jar	ID	Weight(g)	Comp?	NaHSO4?	Comments
202043-001	D	6.49	NO	NO	JLM 3/20/08
-002	B	5.83			
-003		6.27			
-004		5.95			
-005	C	5.57			
-006	B	5.31			
-007		5.69			
-008		4.77			
-009		JLM 3/20/08 5.54			
MS 202043-001	F	6.41			
MSD	E	6.77			
202043-009	C	6.05	NO	NO	P&M 3/21/08
202019-01	A	5.492	NO	NO	ATL 3/21/08 Encores already in vials. Measured vial minus the weight written on vial, and minus 0.200g to get actual weight.
-02		5.139			
-03		4.369			
-04		4.913			
-05	B	4.896			
-06	A	5.013			
-07		4.614			
-08		4.441			
-09		4.152			
-10		4.849			
-11		5.231			
201835-033	A	0.92	NO	NO	ATL 3/21/2008 MSS
-034		0.94			201835-34 = 201835-35
-035		1.06			FD of 201835-35 34 ATL 3/21/08
-037		1.02			ATL 3/21/2008
-038		1.08			
MS of 201835-33	A	0.94			
MSD	A	0.95			
201954-005	B	4.32	NO	NO	P&M 3/21/08 aliquot of 201954-19
-010		5.13			-21
-015		3.86			-22
201865-01	A	1.05	NO	NO	ATL 3/22/08
-02		0.92			
-03		0.93			

Continued on Page

P&M
Signed

3/21/08
Date

Read and Understood By

ATL
Signed

3/22/08
Date

Curtis & Tompkins, Ltd.

Sample Raw Data

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC07	Lab ID	: 202043-001	Client ID	: 1065EX307[6.0]
Seqnum	: 328115877011	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 080_011	Batch	: 136219	Time	: 20-MAR-2008 21:09
IDF	: 1.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 0.7704				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	328095970001	77.22	0.012 J	0.15	0.018	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	328028223001	431.4	0.07766	0.06647	86	65-135	u
Bromofluorobenzene (FID)	A	328028223001	443.8	0.07766	0.06838	88	65-135	u

Analyst: LH Date: 03/21/08 Reviewer: PDM Date: 03/21/08

u=use

328115877011

00059

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **mss,202043-001,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_011**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 9:09:13 PM
Analysis Date: 3/21/2008 8:00:39 AM
Sample Amount: 6.49 Multiplier: 6.49
Vial & pH or Core ID: d

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.600	1028630	431.413
Bromofluorobenzene (FID)	14.900	14.900	862142	443.798
GAS:6-8			43177	0.000
GAS:6-10			74192	68.384
GAS:8-10			31015	0.000
GAS:6-12			116318	83.103
GAS:7-12			89135	77.217
JP4:7-12			89135	53.022

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.833	4158	1.067
Benzene		4.167		0.000 BDL
Trifluorotoluene (PID)	5.617	5.550	1272046	412.709
Toluene		7.967		0.000 BDL
Ethylbenzene	11.867	11.817	1862	0.302
m,p-Xylenes	12.100	12.033	6037	0.703
o-Xylene	13.217	13.150	2080	0.291
Bromofluorobenzene (PID)	14.900	14.833	3453974	423.492

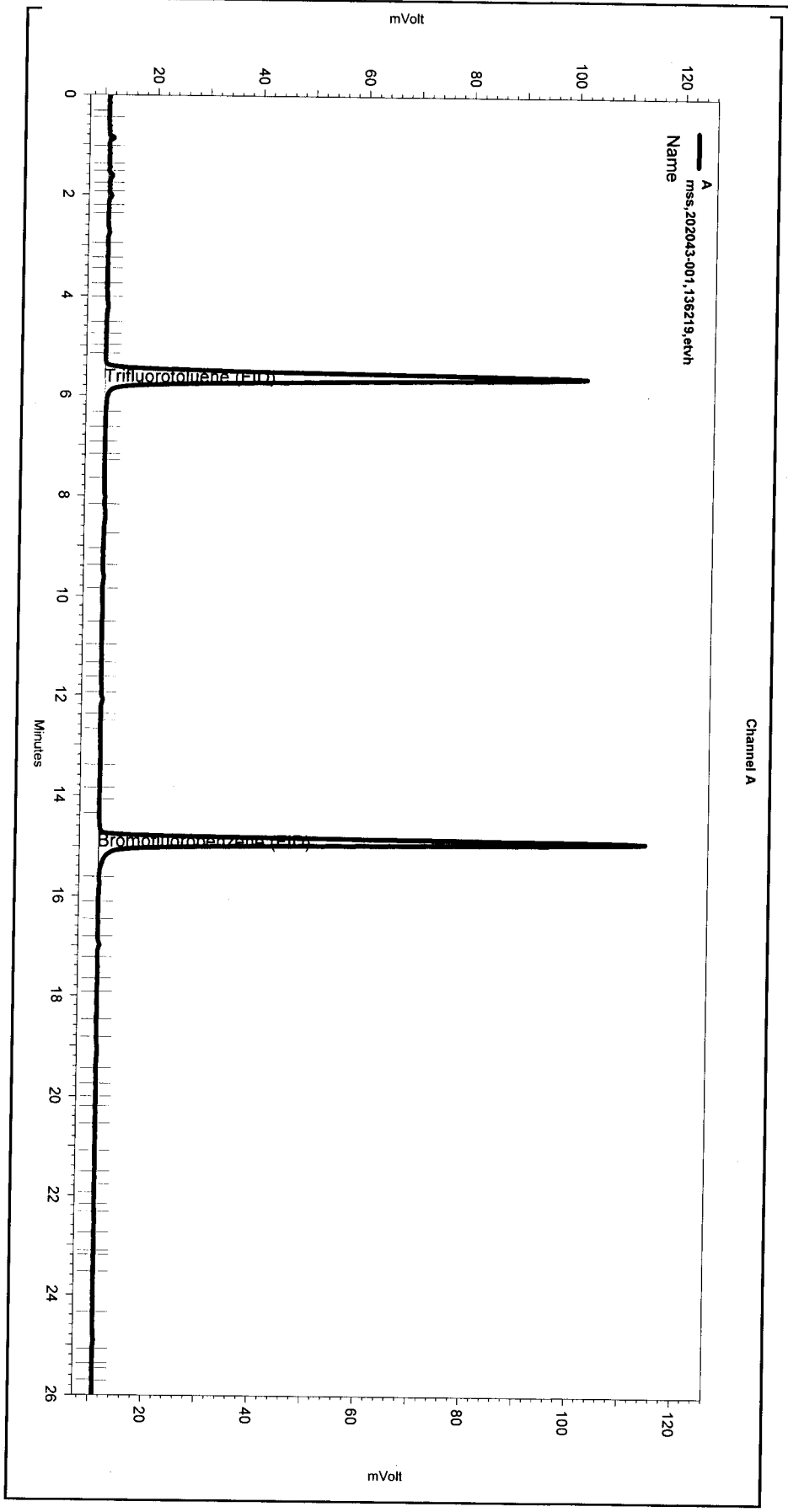
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.750		0.000 BDL
Benzene	3.200	3.133	1005	0.311
Trifluorotoluene (PID)	4.516	4.466	543978	421.477
Toluene	6.533	6.483	709	0.218
Ethylbenzene	10.133	10.099	2314	0.907
m,p-Xylenes	10.466	10.466	5255	1.579
o-Xylene	11.333	11.316	1904	0.673
Bromofluorobenzene (PID)	12.249	12.216	1540931	425.582

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **mss,202043-001,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_011**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 9:09:13 PM
Analysis Date: 3/21/2008 8:00:39 AM
Sample Amount: 6.49 Multiplier: 6.49
Vial & pH or Core ID: d



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC07	Lab ID	: 202043-002	Client ID	: 1065EX308[6.0]
Seqnum	: 328115877012	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 080_012	Batch	: 136219	Time	: 20-MAR-2008 21:45
IDF	: 1.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 0.8576				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	328095970001	20130	3.5	0.17	0.018	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	328028223001	677.5	0.08645	0.1162	134	65-135	u
Bromofluorobenzene (FID)	A	328028223001	581.9	0.08645	0.09981	115	65-135	u

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

Y=does not resemble standard u=use

328115877012

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq
Sample Name: **202043-002,136219,etvh**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_012
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 9:45:04 PM
Analysis Date: 3/21/2008 8:00:42 AM
Sample Amount: 5.83 Multiplier: 5.83
Vial & pH or Core ID: b

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.583	5.600	1615490	677.545
Bromofluorobenzene (FID)	14.883	14.900	1130390	581.882
GAS:6-8			10904462	0.000
GAS:6-10			22075072	20346.902
GAS:8-10			12190410	0.000
GAS:6-12			27104978	19364.948
GAS:7-12			23231650	20125.326
JP4:7-12			23231650	13819.325

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.833	1.833	29727	7.630
Benzene	4.133	4.167	514435	62.605
Trifluorotoluene (PID)	5.600	5.550	1684029	546.374
Toluene		7.967		0.000 BDL
Ethylbenzene		11.817		0.000 BDL
m,p-Xylenes	12.067	12.033	186034	21.672
o-Xylene	13.200	13.150	238663	33.429
Bromofluorobenzene (PID)	14.883	14.833	3928796	481.710

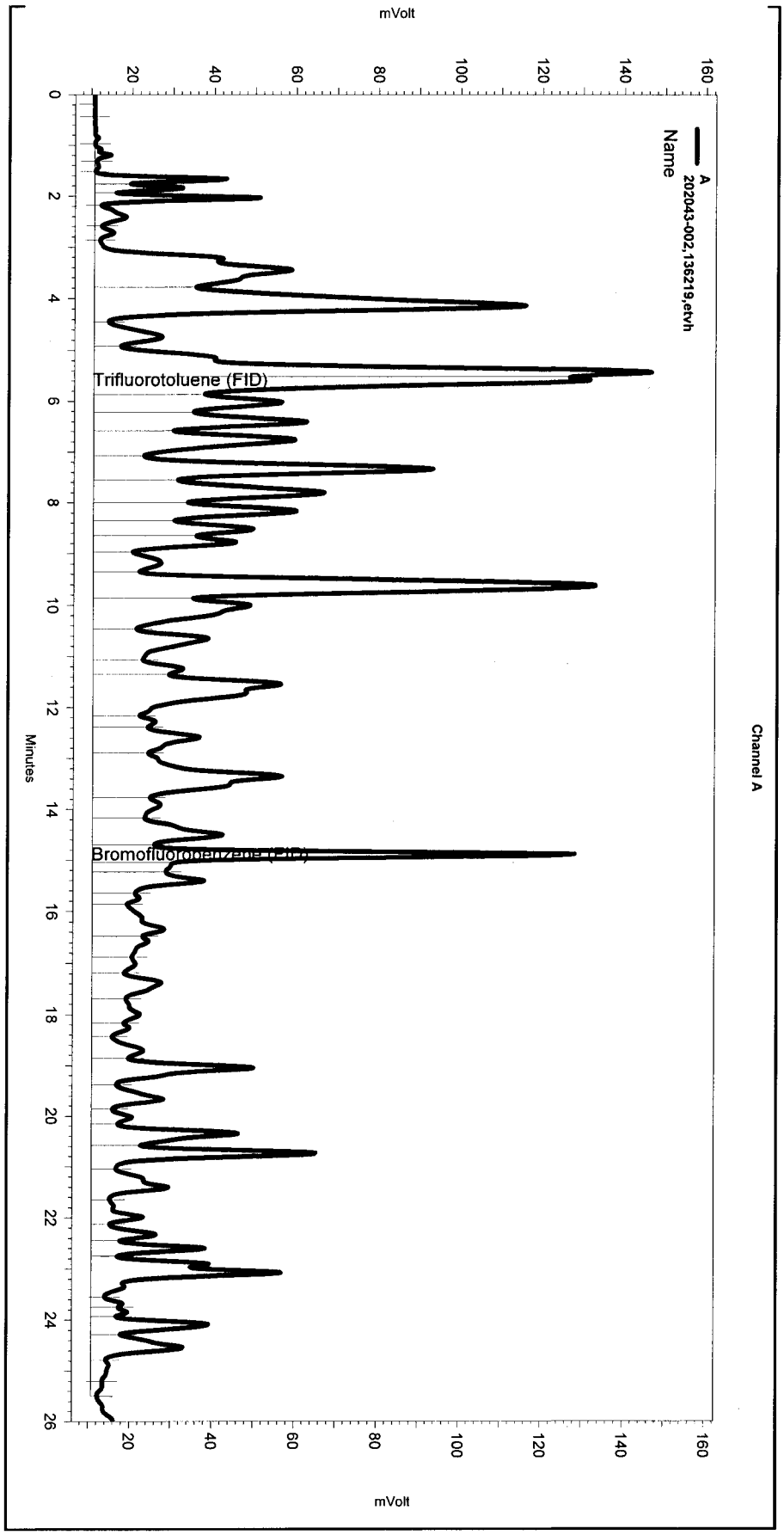
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.750		0.000 BDL
Benzene	3.200	3.133	7870	2.436
Trifluorotoluene (PID)	4.516	4.466	636486	493.152
Toluene		6.483		0.000 BDL
Ethylbenzene		10.099		0.000 BDL
m,p-Xylenes	10.499	10.466	144942	43.548
o-Xylene	11.366	11.316	91644	32.402
Bromofluorobenzene (PID)	12.249	12.216	1800272	497.209

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-002,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_012**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 9:45:04 PM
Analysis Date: 3/21/2008 8:00:42 AM
Sample Amount: 5.83 Multiplier: 5.83
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.441	25.914	0
Yes	Split Peak	5.521	0	0
Yes	Split Peak	15.054	0	0

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC04	Lab ID	: 202043-003	Client ID	: 1065EX309[6.5]
Seqnum	: 308117094063	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 081_063	Batch	: 136270	Time	: 23-MAR-2008 10:54
IDF	: 5.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 5.0				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	307240439001	1435	7.2	5.0	0.49	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	308079642001	548.0	2.520	2.740	109	65-135	>c+ u
Bromofluorobenzene (FID)	A	308079642001	503.8	2.520	2.519	100	65-135	u

CP 03/24/08 : report.

LH 03/24/08 : MeOH Prep Blank can be found at GC07 080_029.

Analyst: MRC Date: 03/24/08 Reviewer: LH Date: 03/24/08

+=high bias >=closing Y=does not resemble standard c=CCV u=use

308117094063

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **202043-003, 136270, tvh, 5x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_063**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/23/2008 10:54:51 AM
Analysis Date: 3/24/2008 12:39:36 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: d

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.783	5.833	1994052	548.025
Bromofluorobenzene (FID)	14.550	14.600	1121276	503.833
GAS:6-8			2279895	0.000
GAS:6-10			5572405	1218.579
GAS:8-10			3292510	0.000
GAS:6-12			7335772	1295.442
GAS:7-12			6310189	1434.848
JP4:7-12			6310189	1367.476

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.000	2.050	963	0.146
Benzene		4.433		0.000 BDL
Trifluorotoluene (PID)	5.783	5.833	1960052	386.554
Toluene		8.167		0.000 BDL
Ethylbenzene		11.800		0.000 BDL
m,p-Xylenes		12.017		0.000 BDL
o-Xylene		13.050		0.000 BDL
Bromofluorobenzene (PID)	14.550	14.600	3810815	367.872

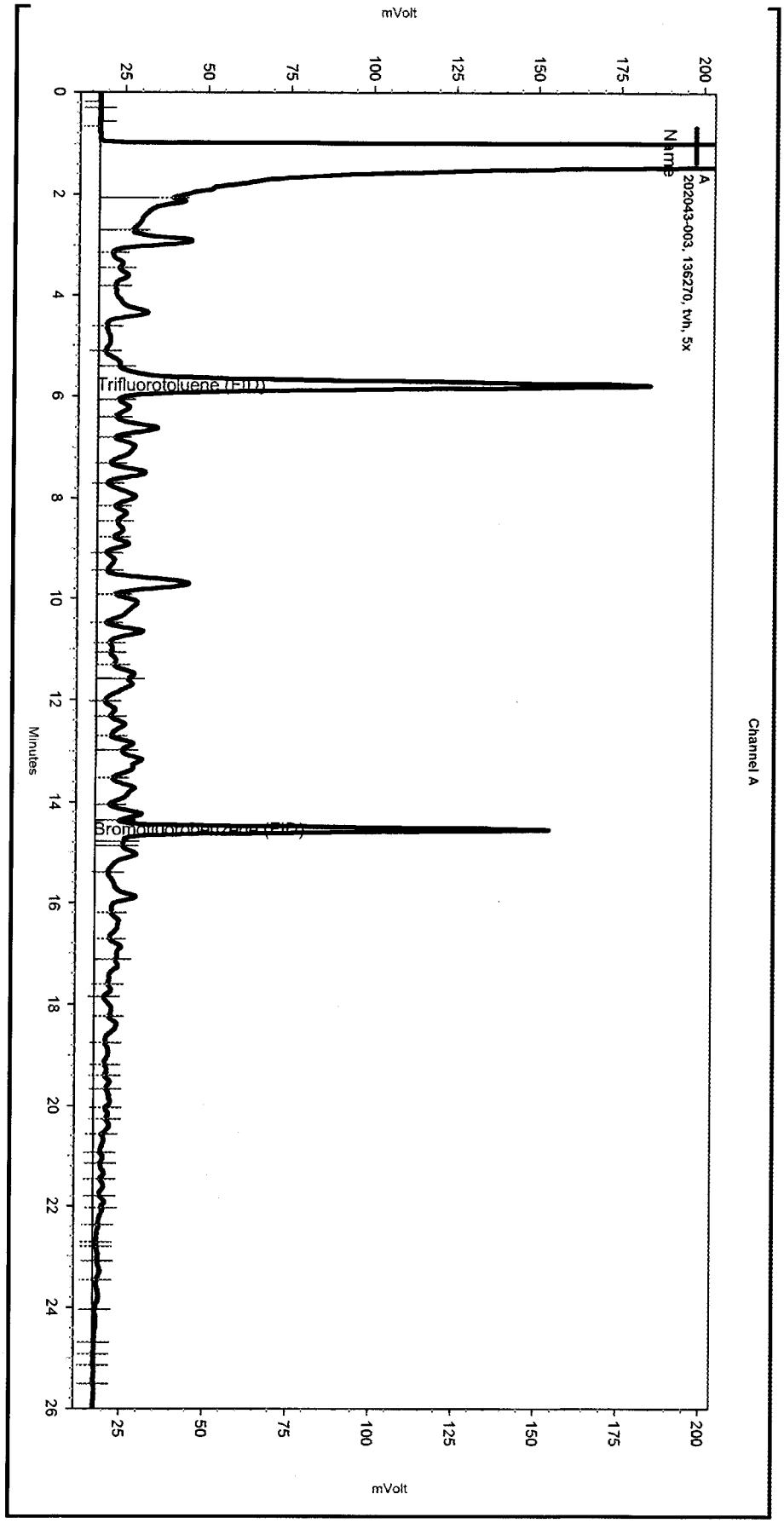
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	601	3.271
Benzene		4.016		0.000 BDL
Trifluorotoluene (PID)	5.450	5.500	67909	450.500
Toluene	7.500	7.566	950	1.719
Ethylbenzene	11.083	11.066	4054	8.382
m,p-Xylenes	11.349	11.399	2304	3.801
o-Xylene	12.183	12.199	1545	3.193
Bromofluorobenzene (PID)	12.983	13.032	131823	434.589

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **202043-003, 136270, tvh, 5x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_063**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1, Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/23/2008 10:54:51 AM
Analysis Date: 3/24/2008 12:39:36 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: d



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_063

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.416	0	0
Yes	Split Peak	14.779	0	0

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC07	Lab ID	: 202043-004	Client ID	: 1065EX310[7.0]
Seqnum	: 328115877019	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 080_019	Batch	: 136219	Time	: 21-MAR-2008 01:55
IDF	: 1.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 0.8403				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	328095970001	1169	0.20	0.17	0.018	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	328028223001	503.0	0.08471	0.08454	100	65-135	u
Bromofluorobenzene (FID)	A	328028223001	465.8	0.08471	0.07829	92	65-135	u

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

Y=does not resemble standard u=use

328115877019

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-004,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_019**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 1:55:46 AM
Analysis Date: 3/21/2008 11:12:20 AM
Sample Amount: 5.95 Multiplier: 5.95
Vial & pH or Core ID: b

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.600	1199293	502.990
Bromofluorobenzene (FID)	14.900	14.900	904979	465.849
GAS:6-8			644323	0.000
GAS:6-10			1278697	1178.593
GAS:8-10			679482	0.000
GAS:6-12			1667151	1191.084
GAS:7-12			1348960	1168.590
JP4:7-12			1348960	802.428

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.817	1.833	12106	3.107
Benzene	4.200	4.167	43439	5.286
Trifluorotoluene (PID)	5.617	5.550	1446908	469.442
Toluene		7.967		0.000 BDL
Ethylbenzene		11.817		0.000 BDL
m,p-Xylenes	12.083	12.033	38150	4.444
o-Xylene		13.150		0.000 BDL
Bromofluorobenzene (PID)	14.900	14.833	3584354	439.478

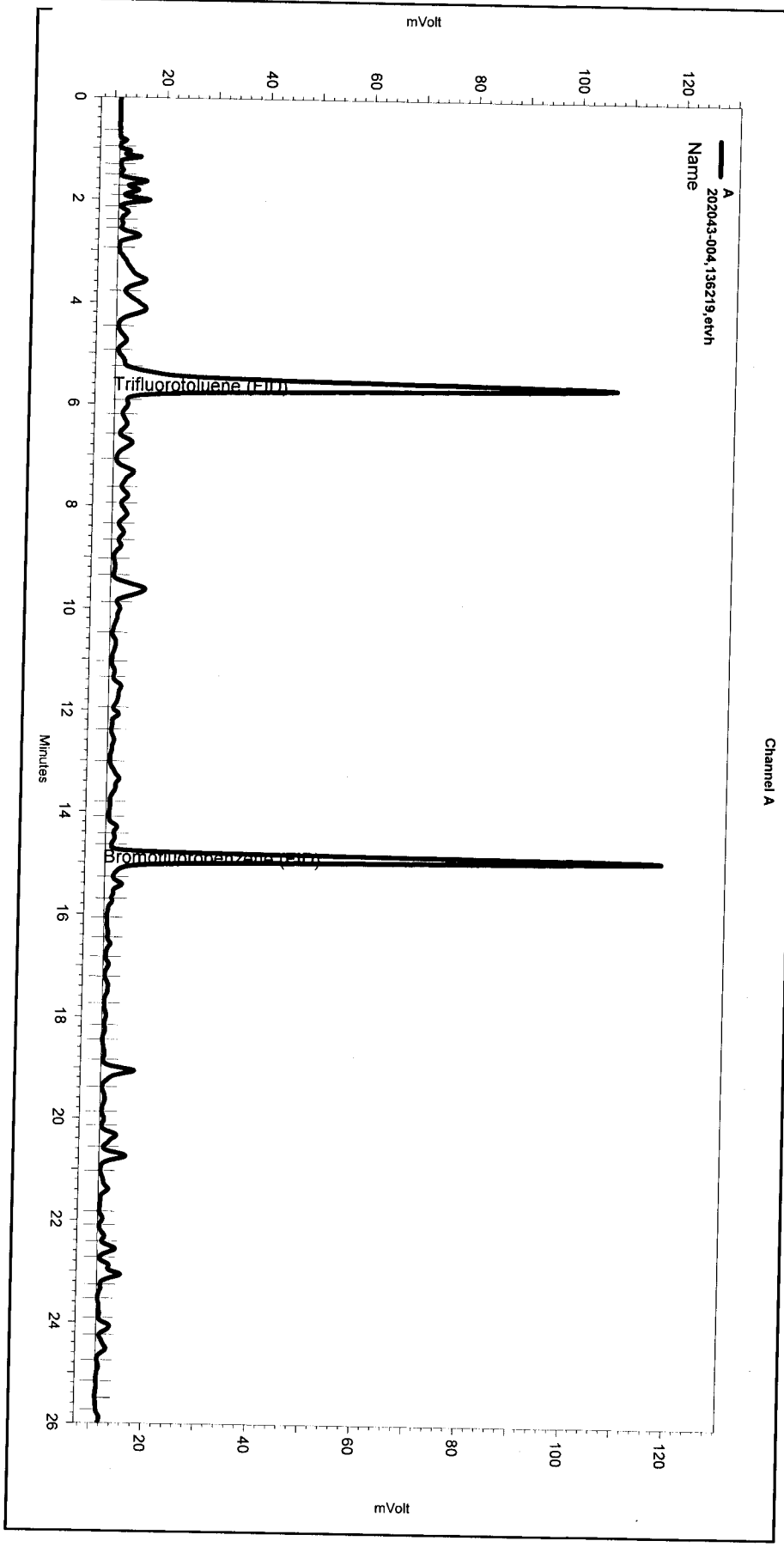
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.750		0.000 BDL
Benzene	3.183	3.133	7149	2.213
Trifluorotoluene (PID)	4.533	4.466	563246	436.405
Toluene	6.533	6.483	5637	1.736
Ethylbenzene		10.099		0.000 BDL
m,p-Xylenes	10.516	10.466	16695	5.016
o-Xylene	11.366	11.316	6459	2.284
Bromofluorobenzene (PID)	12.266	12.216	1546194	427.036

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-004,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_019**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 1:55:46 AM
Analysis Date: 3/21/2008 11:12:20 AM
Sample Amount: 5.95 Multiplier: 5.95
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.251	0	0

00070

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC07	Lab ID	: 202043-005	Client ID	: 1065EX311[8.5]
Seqnum	: 328115877020	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 080_020	Batch	: 136219	Time	: 21-MAR-2008 02:31
IDF	: 1.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 0.8977				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	328095970001	3815	0.68	0.18	0.018	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	328028223001	475.0	0.09048	0.08527	94	65-135	u
Bromofluorobenzene (FID)	A	328028223001	481.8	0.09048	0.08650	96	65-135	u

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

Y=does not resemble standard u=use

328115877020

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-005,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_020**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 2:31:32 AM
Analysis Date: 3/21/2008 11:12:49 AM
Sample Amount: 5.57 Multiplier: 5.57
Vial & pH or Core ID: c

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.600	1132500	474.976
Bromofluorobenzene (FID)	14.900	14.900	936025	481.830
GAS:6-8			1686249	0.000
GAS:6-10			4061306	3743.363
GAS:8-10			2375057	0.000
GAS:6-12			5124161	3660.920
GAS:7-12			4404279	3815.380
JP4:7-12			4404279	2619.882

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.817	1.833	10297	2.643
Benzene	4.150	4.167	89466	10.888
Trifluorotoluene (PID)	5.617	5.550	1410608	457.664
Toluene		7.967		0.000 BDL
Ethylbenzene		11.817		0.000 BDL
m,p-Xylenes	12.100	12.033	44542	5.189
o-Xylene		13.150		0.000 BDL
Bromofluorobenzene (PID)	14.900	14.833	3506626	429.948

Channel C: RTX-1 PID

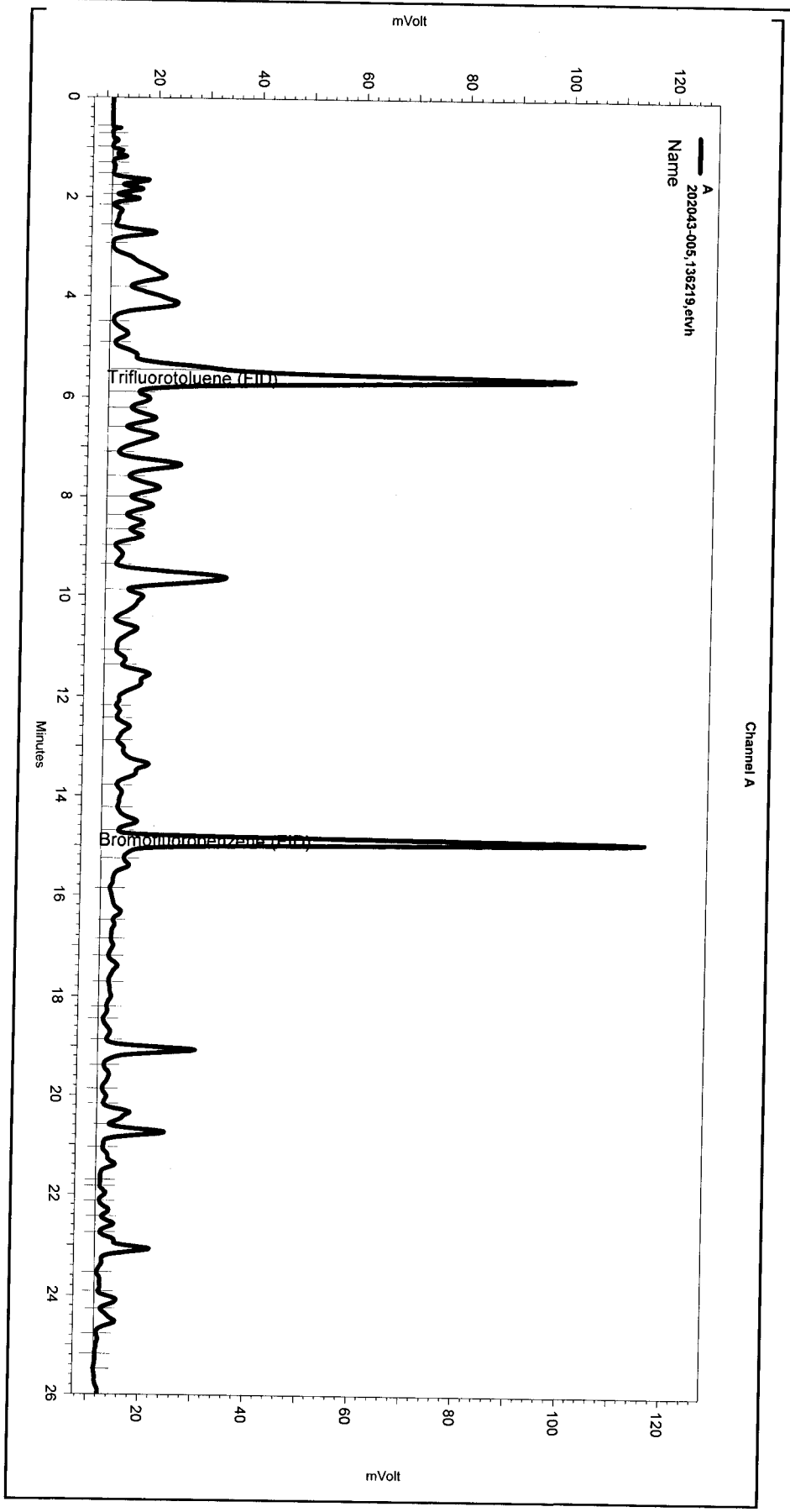
C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.750		0.000 BDL
Benzene	3.166	3.133	7464	2.310
Trifluorotoluene (PID)	4.533	4.466	505749	391.857
Toluene	6.416	6.483	33743	10.393
Ethylbenzene		10.099		0.000 BDL
m,p-Xylenes	10.516	10.466	35293	10.604
o-Xylene	11.383	11.316	21045	7.441
Bromofluorobenzene (PID)	12.266	12.216	1544085	426.454

: 00072

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-005,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_020**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 2:31:32 AM
Analysis Date: 3/21/2008 11:12:49 AM
Sample Amount: 5.57 Multiplier: 5.57
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.457	0	0

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC07	Lab ID	: 202043-006	Client ID	: DUP031908
Seqnum	: 328115877021	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 080_021	Batch	: 136219	Time	: 21-MAR-2008 03:07
IDF	: 1.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 0.9416				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	328095970001	6931	1.3	0.19	0.018	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	328028223001	492.6	0.09492	0.09276	98	65-135	u
Bromofluorobenzene (FID)	A	328028223001	527.2	0.09492	0.09928	105	65-135	u

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

Y=does not resemble standard u=use

328115877021

: 00074

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-006,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_021**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 3:07:25 AM
Analysis Date: 3/21/2008 11:13:21 AM
Sample Amount: 5.31 Multiplier: 5.31
Vial & pH or Core ID: b

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1174426	492.560
Bromofluorobenzene (FID)	14.900	14.900	1024151	527.194
GAS:6-8			3567757	0.000
GAS:6-10			7553654	6962.309
GAS:8-10			4301397	0.000
GAS:6-12			9360357	6687.439
GAS:7-12			8001117	6931.282
JP4:7-12			8001117	4759.458

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.833		0.000 BDL
Benzene	4.133	4.167	132505	16.125
Trifluorotoluene (PID)	5.600	5.550	1370839	444.762
Toluene		7.967		0.000 BDL
Ethylbenzene		11.817		0.000 BDL
m,p-Xylenes	12.083	12.033	30710	3.578
o-Xylene		13.150		0.000 BDL
Bromofluorobenzene (PID)	14.900	14.833	3540662	434.121

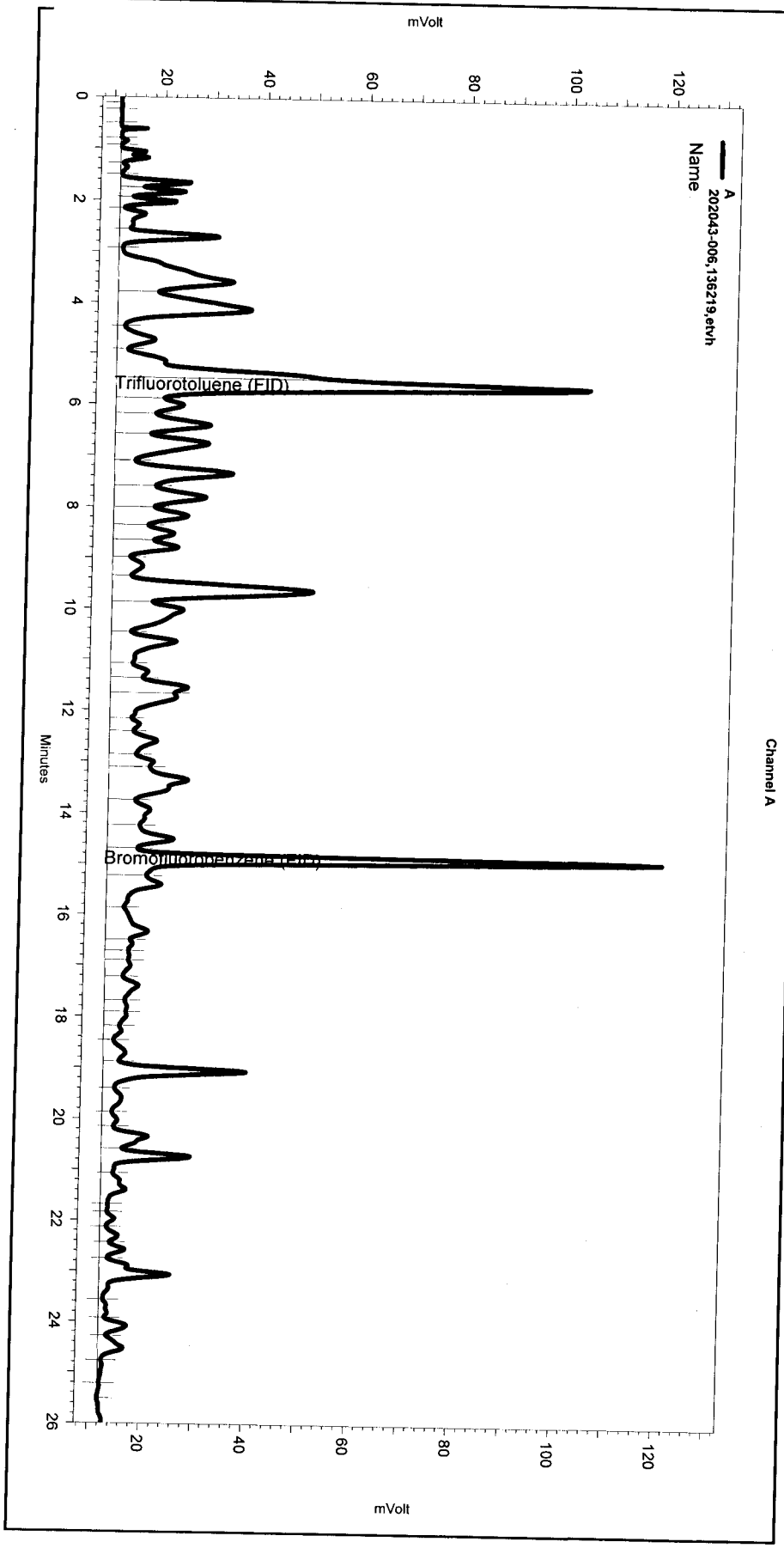
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.750		0.000 BDL
Benzene	3.166	3.133	19244	5.957
Trifluorotoluene (PID)	4.516	4.466	535891	415.211
Toluene		6.483		0.000 BDL
Ethylbenzene		10.099		0.000 BDL
m,p-Xylenes	10.516	10.466	47735	14.342
o-Xylene	11.366	11.316	24543	8.677
Bromofluorobenzene (PID)	12.266	12.216	1531846	423.073

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-006,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_021**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 3:07:25 AM
Analysis Date: 3/21/2008 11:13:21 AM
Sample Amount: 5.31 Multiplier: 5.31
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.478	0	0

00076

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC07	Lab ID	: 202043-007	Client ID	: 1065EX312[6.0]
Seqnum	: 328115877022	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 080_022	Batch	: 136219	Time	: 21-MAR-2008 03:43
IDF	: 1.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 0.8787				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	328095970001	191.8	0.034 J	0.18	0.018	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	328028223001	435.3	0.08858	0.07651	86	65-135	u
Bromofluorobenzene (FID)	A	328028223001	463.2	0.08858	0.08140	92	65-135	u

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

328115877022

00077

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-007,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_022**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 3:43:13 AM
Analysis Date: 3/21/2008 8:01:19 AM
Sample Amount: 5.69 Multiplier: 5.69
Vial & pH or Core ID: b

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.600	1037982	435.335
Bromofluorobenzene (FID)	14.900	14.900	899787	463.176
GAS:6-8			45166	0.000
GAS:6-10			131187	120.917
GAS:8-10			86021	0.000
GAS:6-12			251495	179.679
GAS:7-12			221393	191.790
JP4:7-12			221393	131.695

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.800	1.833	3297	0.846
Benzene	4.233	4.167	6039	0.735
Trifluorotoluene (PID)	5.617	5.550	1282184	415.998
Toluene	8.033	7.967	6322	0.777
Ethylbenzene	11.867	11.817	5552	0.902
m,p-Xylenes	12.100	12.033	14418	1.680
o-Xylene	13.217	13.150	7627	1.068
Bromofluorobenzene (PID)	14.900	14.833	3581639	439.145

Channel C: RTX-1 PID

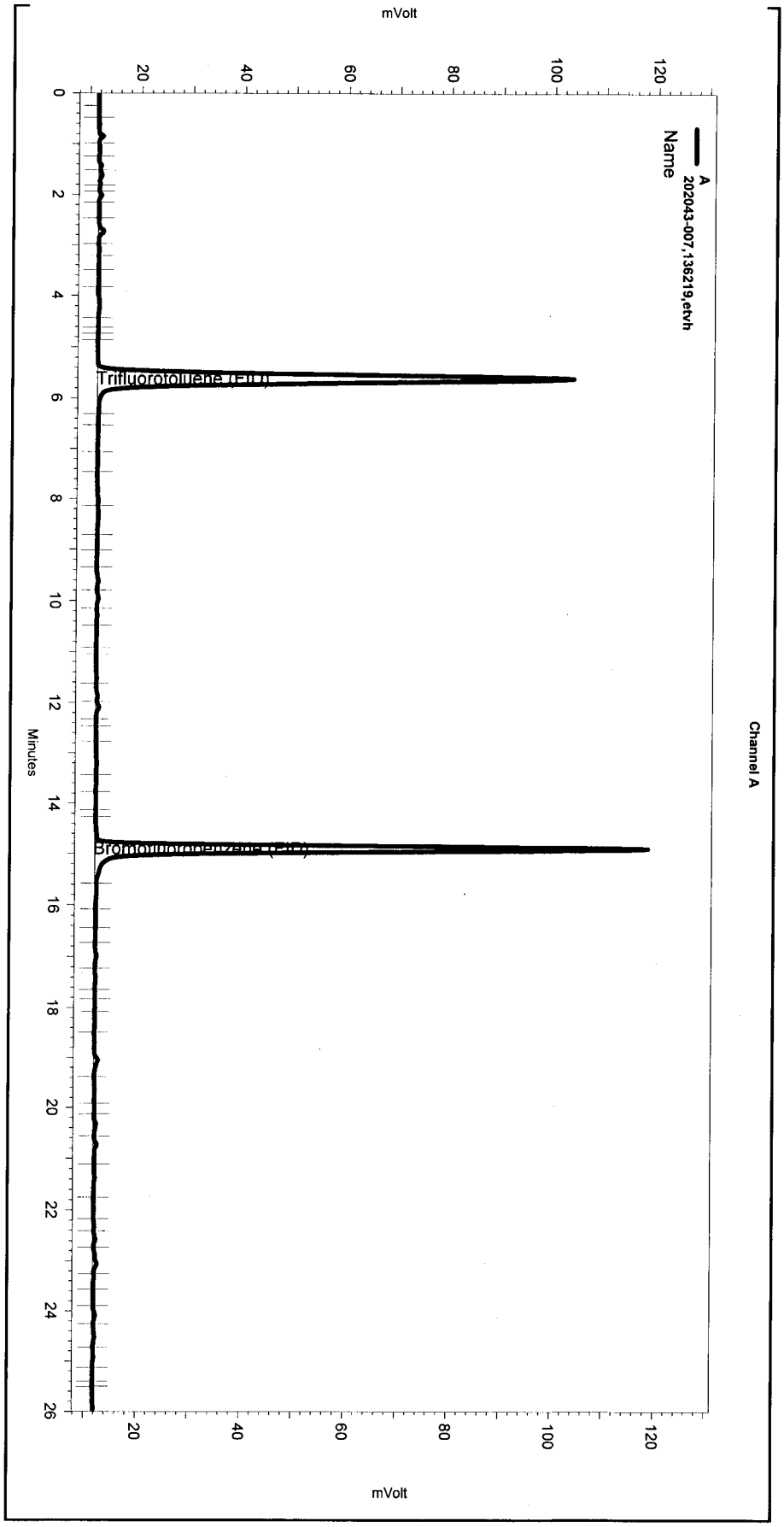
C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.750		0.000 BDL
Benzene	3.183	3.133	1540	0.477
Trifluorotoluene (PID)	4.533	4.466	541574	419.614
Toluene	6.550	6.483	1908	0.588
Ethylbenzene	10.166	10.099	2441	0.956
m,p-Xylenes	10.516	10.466	4739	1.424
o-Xylene	11.366	11.316	1324	0.468
Bromofluorobenzene (PID)	12.266	12.216	1578536	435.968

00078

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-007,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_022**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 3:43:13 AM
Analysis Date: 3/21/2008 8:01:19 AM
Sample Amount: 5.69 Multiplier: 5.69
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

: 00879

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC07	Lab ID	: 202043-008	Client ID	: 1065EX313[4.5]
Seqnum	: 328115877032	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 080_032	Batch	: 136219	Time	: 21-MAR-2008 10:05
IDF	: 50.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 5.0				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	328095970001	38120	1900	50	0.92	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	328028223001	615.6	25.20	30.78	122	65-135	u
Bromofluorobenzene (FID)	A	328028223001	859.7	25.20	42.98	**171***	65-135	u

PDM 03/21/08 [Bromofluorobenzene (FID) A]: Fails high due to coelution with sample hydrocarbons.

LH 03/21/08 : MeOH Prep Blank can be found at GC07 080_029.

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

Y=does not resemble standard u=use

328115877032

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq** Sample Name: **202043-008,136219,etvh, 50x** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_032** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met	Software Version 3.1.7 Run Date: 3/21/2008 10:05:36 AM Analysis Date: 3/21/2008 11:10:10 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: c

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1467899	615.645
Bromofluorobenzene (FID)	14.900	14.900	1669998	859.652
GAS:6-8			3998954	0.000
GAS:6-10			30120788	27762.754
GAS:8-10			26121832	0.000
GAS:6-12			44889104	32070.692
GAS:7-12			44001688	38118.195
JP4:7-12			44001688	26174.370

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.833	1.833	2714	0.697
Benzene	4.117	4.167	140531	17.102
Trifluorotoluene (PID)	5.600	5.550	1643973	533.378
Toluene		7.967		0.000 BDL
Ethylbenzene	11.750	11.817	1730095	280.963
m,p-Xylenes		12.033		0.000 BDL
o-Xylene		13.150		0.000 BDL
Bromofluorobenzene (PID)	14.883	14.833	4259148	522.215

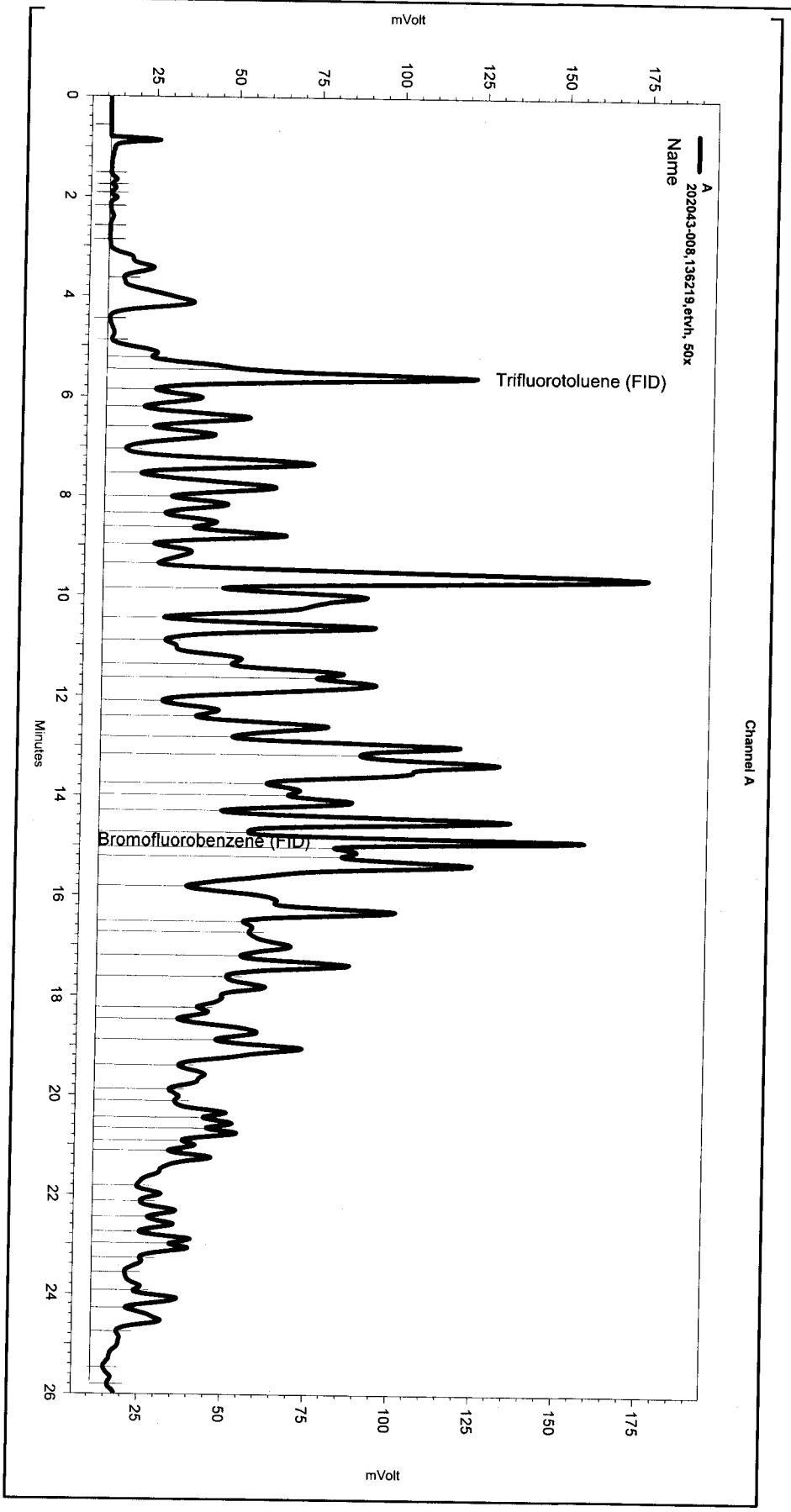
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.750		0.000 BDL
Benzene	3.200	3.133	1967	0.609
Trifluorotoluene (PID)	4.533	4.466	588060	455.631
Toluene		6.483		0.000 BDL
Ethylbenzene		10.099		0.000 BDL
m,p-Xylenes	10.533	10.466	260479	78.261
o-Xylene	11.366	11.316	166253	58.780
Bromofluorobenzene (PID)	12.249	12.216	2313652	638.997

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-008,136219,etvh, 50x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_032**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 10:05:36 AM
Analysis Date: 3/21/2008 11:10:10 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.491	25.762	0
Yes	Split Peak	5.46	0	0

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC07	Lab ID	: 202043-009	Client ID	: 1065EX314[5.5]
Seqnum	: 328115877030	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 080_030	Batch	: 136219	Time	: 21-MAR-2008 08:52
IDF	: 1.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 0.8264				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	328095970001	613.2	0.10 J	0.17	0.018	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	328028223001	427.5	0.08331	0.07065	85	65-135	u
Bromofluorobenzene (FID)	A	328028223001	458.2	0.08331	0.07573	91	65-135	u

PDM 03/21/08 : reporting from this run; first run has CO

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

328115877030

: 00083

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-009,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_030**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 8:52:36 AM
Analysis Date: 3/21/2008 9:45:31 AM
Sample Amount: 6.05 Multiplier: 6.05
Vial & pH or Core ID: c

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.600	1019209	427.462
Bromofluorobenzene (FID)	14.917	14.900	890109	458.194
GAS:6-8			114860	0.000
GAS:6-10			550326	507.243
GAS:8-10			435466	0.000
GAS:6-12			738980	527.959
GAS:7-12			707877	613.226
JP4:7-12			707877	421.080

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.833	1.833	4471	1.148
Benzene	4.233	4.167	4532	0.552
Trifluorotoluene (PID)	5.617	5.550	1297809	421.067
Toluene	8.017	7.967	25441	3.128
Ethylbenzene		11.817		0.000 BDL
m,p-Xylenes	12.100	12.033	28978	3.376
o-Xylene		13.150		0.000 BDL
Bromofluorobenzene (PID)		14.833		0.000 BDL

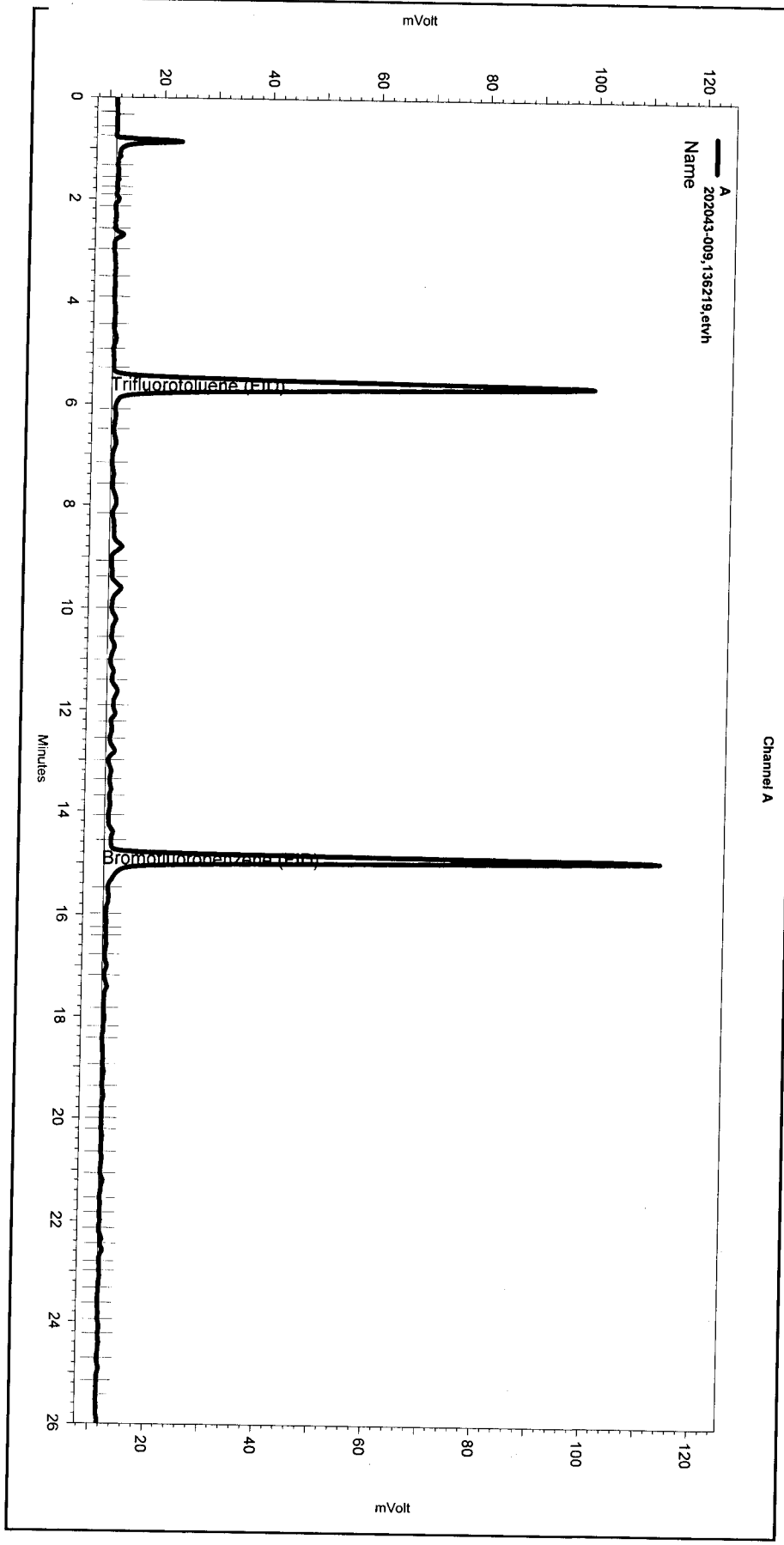
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.750		0.000 BDL
Benzene	3.150	3.133	505	0.156
Trifluorotoluene (PID)	4.516	4.466	576491	446.668
Toluene	6.533	6.483	9698	2.987
Ethylbenzene		10.099		0.000 BDL
m,p-Xylenes	10.516	10.466	29847	8.968
o-Xylene	11.383	11.316	18243	6.450
Bromofluorobenzene (PID)	12.283	12.216	1586564	438.186

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **202043-009,136219,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_030**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 8:52:36 AM
Analysis Date: 3/21/2008 9:45:31 AM
Sample Amount: 6.05 Multiplier: 6.05
Vial & pH or Core ID: c



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

00085

Curtis & Tompkins, Ltd.

QC RAW DATA

CURTIS & TOMPKINS BLANK USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Inst	: GC07	Lab ID	: QC433865		
Seqnum	: 328115877010.1	Matrix	: Soil		
File	: 080_010	Batch	: 136219	Time	: 20-MAR-2008 20:33
IDF	: 1.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 1.0				

Analyte	Ch	Cal	Raw	Result	RL	Flags
Gasoline C7-C12	A	328095970001	92.10	0.018 J	0.20	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	328028223001	443.6	0.1008	0.08872	88	65-135	u
Bromofluorobenzene (FID)	A	328028223001	423.3	0.1008	0.08467	84	65-135	u

PDM 03/21/08 : <1/2 RL [general version]

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

328115877010.1

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **mb,qc433865,136219**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_010**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 8:33:19 PM
Analysis Date: 3/21/2008 8:00:35 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1057720	443.613
Bromofluorobenzene (FID)	14.900	14.900	822389	423.335
GAS:6-8			26742	0.000
GAS:6-10			65006	59.917
GAS:8-10			38264	0.000
GAS:6-12			118308	84.524
GAS:7-12			106311	92.096
JP4:7-12			106311	63.239

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.833	3981	1.022
Benzene	4.233	4.167	4096	0.498
Trifluorotoluene (PID)	5.600	5.550	1311547	425.525
Toluene	8.033	7.967	5692	0.700
Ethylbenzene	11.867	11.817	1809	0.294
m,p-Xylenes	12.083	12.033	8261	0.962
o-Xylene	13.200	13.150	2887	0.404
Bromofluorobenzene (PID)	14.900	14.833	3312095	406.097

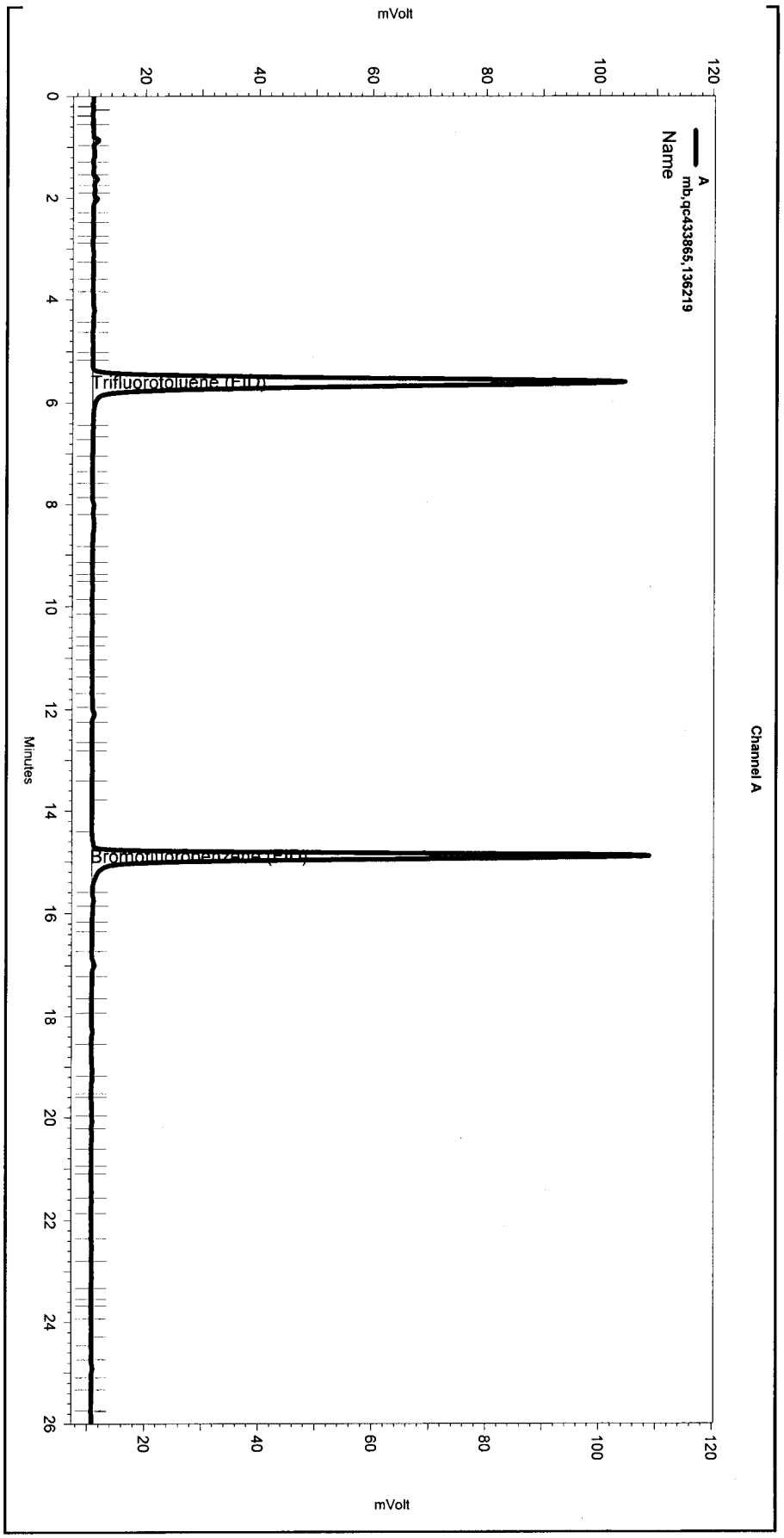
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.767	1.750	820	0.528
Benzene	3.166	3.133	2072	0.641
Trifluorotoluene (PID)	4.500	4.466	563059	436.261
Toluene	6.533	6.483	1428	0.440
Ethylbenzene	10.149	10.099	2580	1.011
m,p-Xylenes	10.483	10.466	5250	1.577
o-Xylene	11.349	11.316	2106	0.745
Bromofluorobenzene (PID)	12.249	12.216	1481058	409.046

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq
Sample Name: **mb,qc433865,136219**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_010
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 8:33:19 PM
Analysis Date: 3/21/2008 8:00:35 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS BLANK USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04
Seqnum : 308117094041.1
File : 081_041
IDF : 1.0
PDF : 5.0

Lab ID : QC434086
Matrix : Soil
Batch : 136270
Raw Units : ng

Time : 22-MAR-2008 20:51
Units : mg/Kg

Analyte	Ch	Cal	Raw	Result	RL	Flags
Gasoline C7-C12	A	307240439001	98.21	0.098 J	1.0	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	308079642001	552.4	0.5040	0.5524	110	65-135	<c+ u
Bromofluorobenzene (FID)	A	308079642001	505.4	0.5040	0.5054	100	65-135	<c+ u

MRC 03/24/08 : < 1/2 RL [general version]

Analyst: CP Date: 03/24/08 Reviewer: LH Date: 03/24/08

+=high bias <=opening c=CCV u=use

308117094041.1

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq
Sample Name: **mb,qc434086,136270**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_041
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 8:51:14 PM
Analysis Date: 3/24/2008 12:42:08 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.800	5.833	2010090	552.432
Bromofluorobenzene (FID)	14.567	14.600	1124663	505.355
GAS:6-8			66792	0.000
GAS:6-10			224397	49.071
GAS:8-10			157605	0.000
GAS:6-12			463042	81.770
GAS:7-12			431887	98.205
JP4:7-12			431887	93.594

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.100	2.050	482	0.073
Benzene	4.400	4.433	5398	0.255
Trifluorotoluene (PID)	5.800	5.833	2074700	409.164
Toluene	8.150	8.167	14392	0.719
Ethylbenzene	11.750	11.800	2625	0.158
m,p-Xylenes	11.983	12.017	11539	0.541
o-Xylene	13.033	13.050	5197	0.309
Bromofluorobenzene (PID)	14.567	14.600	3874228	373.993

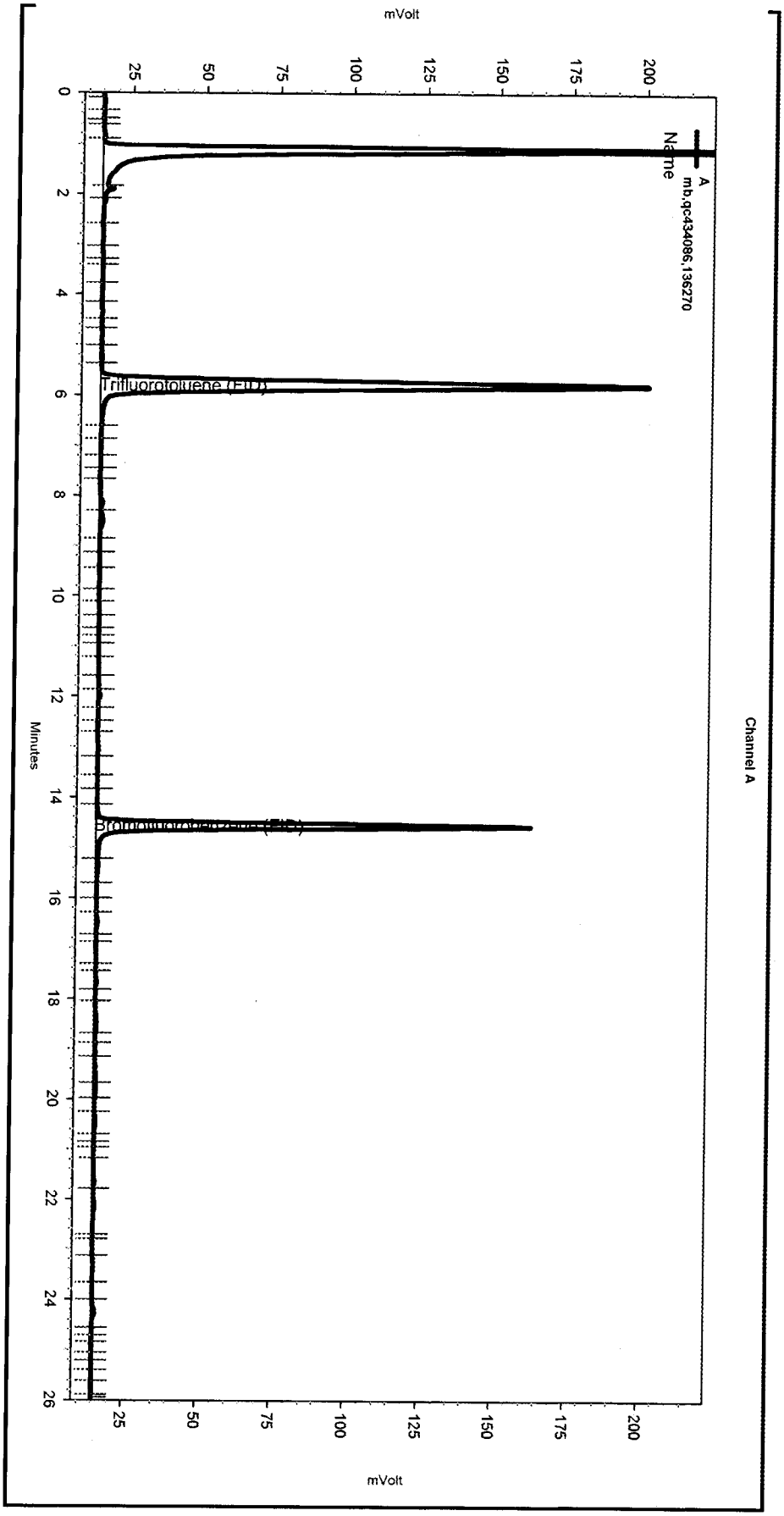
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		2.333		0.000 BDL
Benzene		4.016		0.000 BDL
Trifluorotoluene (PID)	5.466	5.500	77768	515.903
Toluene		7.566		0.000 BDL
Ethylbenzene		11.066		0.000 BDL
m,p-Xylenes	11.366	11.399	366	0.604
o-Xylene	12.183	12.199	520	1.075
Bromofluorobenzene (PID)	13.016	13.032	141250	465.668

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **mb,qc434086,136270**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_041**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 8:51:14 PM
Analysis Date: 3/24/2008 12:42:08 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_041

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

: 00092

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq Sample Name: **x, MeOH mb, 5x, BJCV200** Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_029 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met	Software Version 3.1.7 Run Date: 3/21/2008 8:16:41 AM Analysis Date: 3/21/2008 11:14:24 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: 3/21/08

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.633	5.600	1103653	462.878
Bromofluorobenzene (FID)	14.917	14.900	837830	431.283
GAS:6-8			102941	0.000
GAS:6-10			157131	144.830
GAS:8-10			59051	0.000
GAS:6-12			239272	170.946
GAS:7-12			183538	158.997
JP4:7-12			183538	109.177

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.833	9088	2.333
Benzene		4.167		0.000 BDL
Trifluorotoluene (PID)		5.550		0.000 BDL
Toluene		7.967		0.000 BDL
Ethylbenzene	11.883	11.817	3144	0.511
m,p-Xylenes	12.100	12.033	18672	2.175
o-Xylene	13.217	13.150	7275	1.019
Bromofluorobenzene (PID)		14.833		0.000 BDL

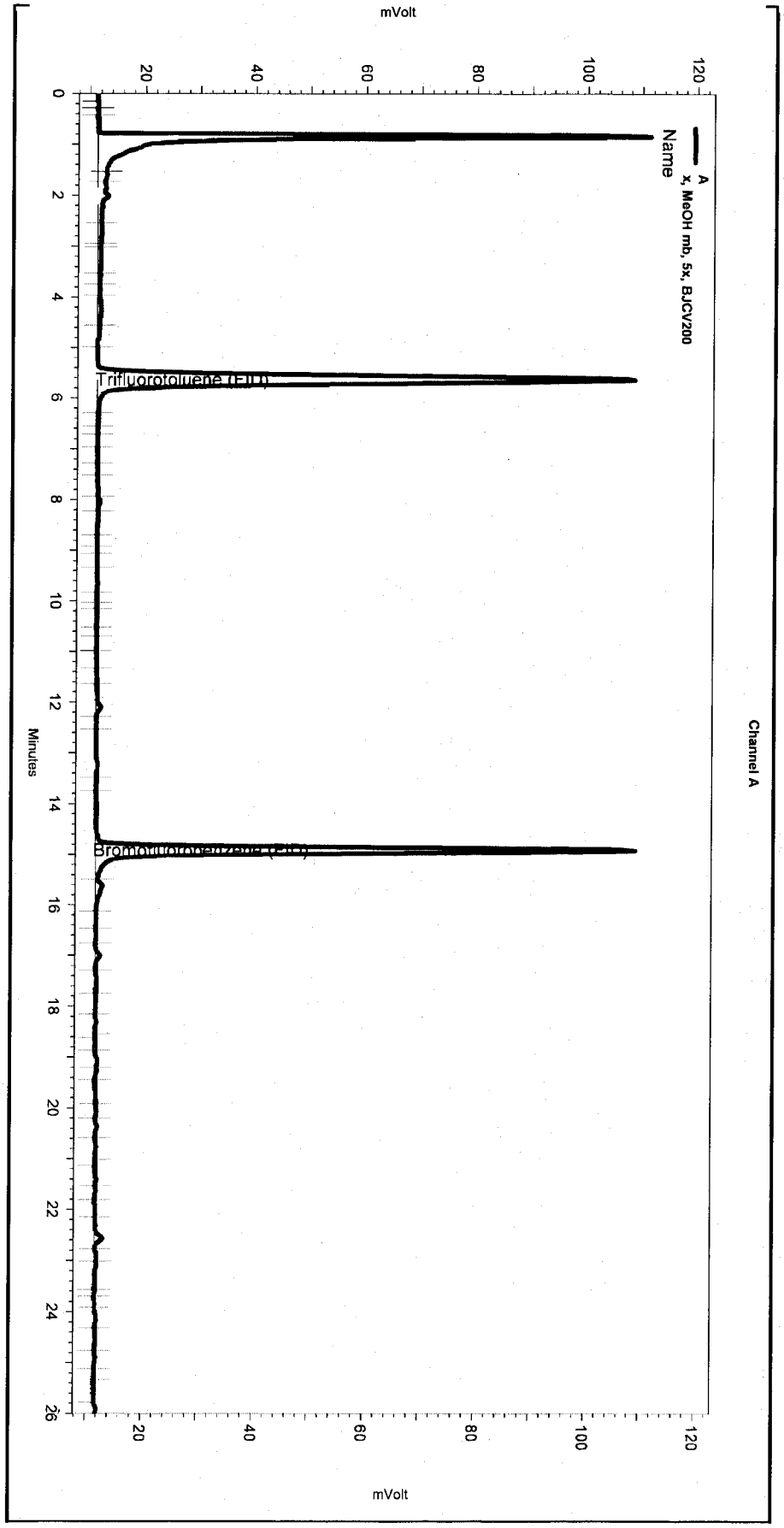
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.750	1.750	2291	1.474
Benzene	3.183	3.133	2363	0.731
Trifluorotoluene (PID)	4.533	4.466	566173	438.673
Toluene	6.550	6.483	6072	1.870
Ethylbenzene	10.149	10.099	1868	0.732
m,p-Xylenes	10.516	10.466	8222	2.470
o-Xylene	11.349	11.316	4310	1.524
Bromofluorobenzene (PID)	12.266	12.216	1450811	400.693

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq
Sample Name: **x, MeOH mb, 5x, BJCV200**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_029**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 8:16:41 AM
Analysis Date: 3/21/2008 11:14:24 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: 3/21/08



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Type : CCV/LCS
Inst : GC07
Seqnum : 328115877008.1
File : 080_008
IDF : 1.0
PDF : 5.0
Lab ID : QC433866
Matrix : Soil
Batch : 136219
Time : 20-MAR-2008 17:51
Cal : 328028223001
Cal : 328095970001
Units : mg/Kg

Analyte	Spiked	On Col	CCV/LCS	Ch	%Rec	Limits	Flags
Gasoline C7-C12	5.000	5639	5.639	A	113	75-125	u
Trifluorotoluene (FID)	0.5040	486.5	0.4865	A	97	65-135	u
Bromofluorobenzene (FID)	0.5040	435.1	0.4351	A	86	65-135	u

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

328115877008.1

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq** Sample Name: **ccv/lcs,qc433866,136219,s8447,2.5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_008** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met	Software Version 3.1.7 Run Date: 3/20/2008 5:51:14 PM Analysis Date: 3/21/2008 8:00:28 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1159972	486.498
Bromofluorobenzene (FID)	14.883	14.900	845260	435.108
GAS:6-8			2351683	0.000
GAS:6-10			5781037	5328.463
GAS:8-10			3429354	0.000
GAS:6-12			7684706	5490.282
GAS:7-12			6509878	5639.438
JP4:7-12			6509878	3872.396

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.833	359289	92.224
Benzene	4.233	4.167	454984	55.370
Trifluorotoluene (PID)	5.600	5.550	1455887	472.355
Toluene	8.017	7.967	2558447	314.554
Ethylbenzene	11.850	11.817	421966	68.526
m,p-Xylenes	12.083	12.033	2182327	254.227
o-Xylene	13.200	13.150	776719	108.793
Bromofluorobenzene (PID)	14.883	14.833	3574029	438.212

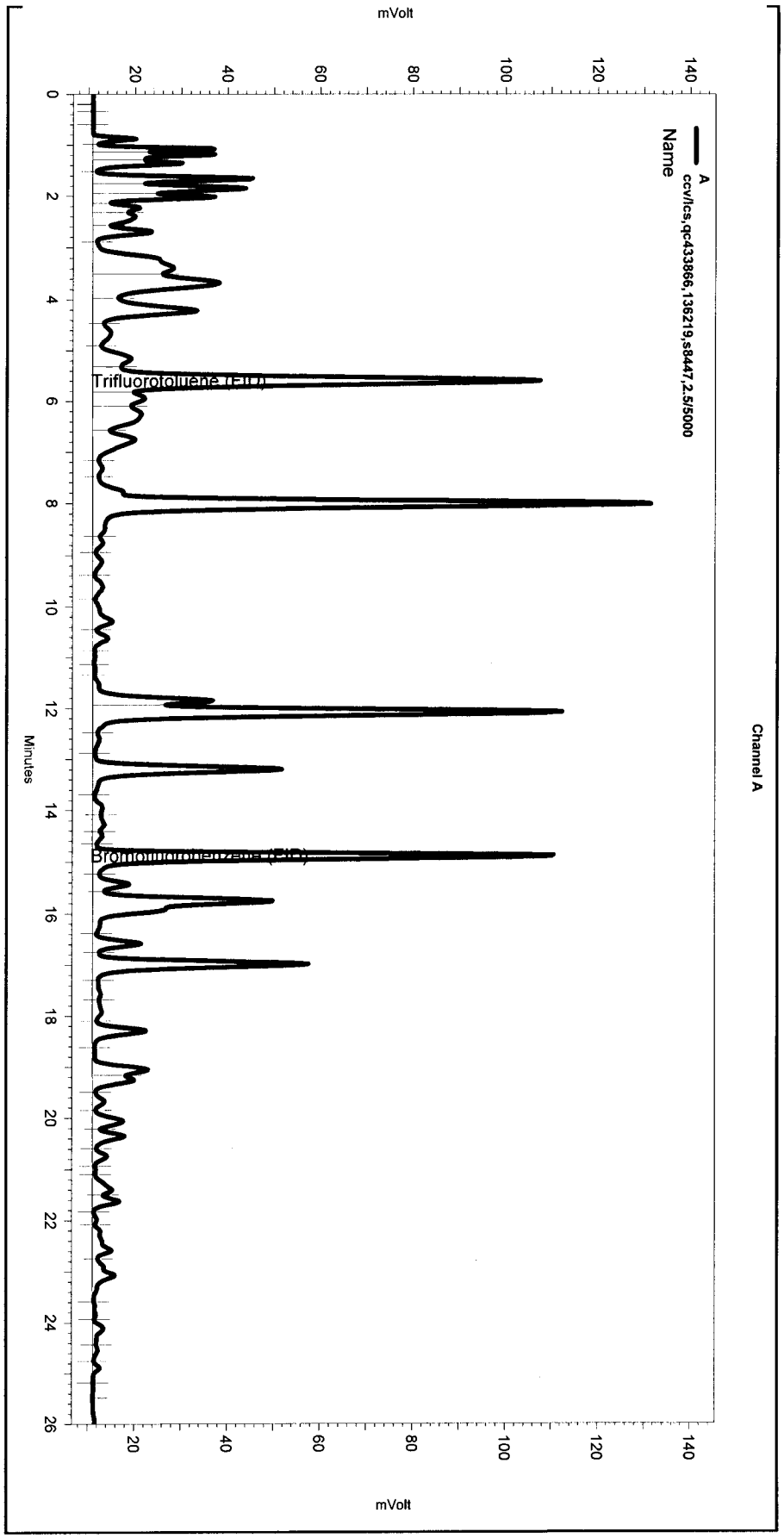
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.750	149545	96.218
Benzene	3.183	3.133	191904	59.402
Trifluorotoluene (PID)	4.516	4.466	723364	560.466
Toluene	6.516	6.483	1248821	384.648
Ethylbenzene	10.133	10.099	184524	72.288
m,p-Xylenes	10.483	10.466	996877	299.512
o-Xylene	11.333	11.316	356003	125.868
Bromofluorobenzene (PID)	12.233	12.216	1691037	467.040

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **ccv/lcs,qc433866,136219,s8447,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_008**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 5:51:14 PM
Analysis Date: 3/21/2008 8:00:28 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

00097

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Type : CCV/LCS
Inst : GC04
Seqnum : 308117094052.1
File : 081_052
IDF : 1.0
PDF : 1.0
Lab ID : QC434087
Matrix : Soil
Batch : 136270
Time : 23-MAR-2008 03:52
Cal : 307240439001
Cal : 308079642001
Units : mg/Kg

Analyte	Spiked	On Col	CCV/LCS	Ch	%Rec	Limits	Flags
Gasoline C7-C12	1.000	4289	0.8578	A	86	75-125	u
Trifluorotoluene (FID)	0.1008	540.1	0.1080	A	107	65-135	u
Bromofluorobenzene (FID)	0.1008	481.8	0.09636	A	96	65-135	u

MRC 03/24/08 : Integrations checked by MRC. [general version]

CP 03/24/08 : sample name should read: ccv/lcs,qc434087,136270,s8718,2.5/5000. [general version]

Analyst: CP Date: 03/24/08 Reviewer: LH Date: 03/24/08

u=use

308117094052.1

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_052**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/23/2008 3:52:23 AM
Analysis Date: 3/24/2008 10:26:16 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.767	5.833	1965097	540.067
Bromofluorobenzene (FID)	14.533	14.600	1072209	481.785
GAS:6-8			9507843	0.000
GAS:6-10			19627402	4292.141
GAS:8-10			10119562	0.000
GAS:6-12			25022794	4418.837
GAS:7-12			18862786	4289.131
JP4:7-12			18862786	4087.738

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.017	2.050	361860	54.987
Benzene	4.383	4.433	1042507	49.197
Trifluorotoluene (PID)	5.767	5.833	1988496	392.163
Toluene	8.117	8.167	5941127	296.772
Ethylbenzene	11.750	11.800	1062161	64.031
m,p-Xylenes	11.950	12.017	5056442	237.037
o-Xylene	12.983	13.050	1645503	97.806
Bromofluorobenzene (PID)	14.533	14.600	3796989	366.537

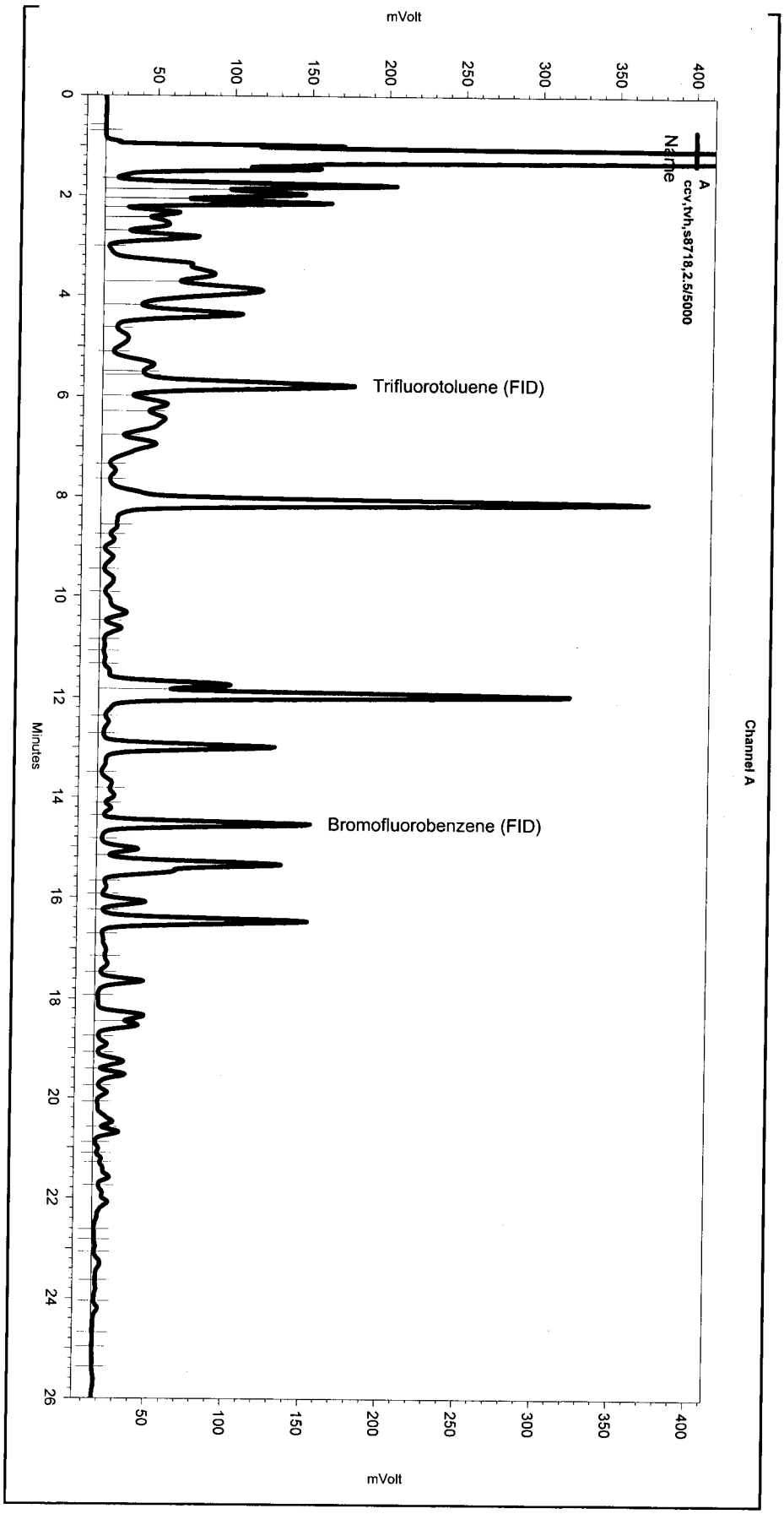
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	10031	54.602
Benzene	3.966	4.016	34264	57.018
Trifluorotoluene (PID)	5.450	5.500	77778	515.970
Toluene	7.516	7.566	222346	402.230
Ethylbenzene	10.999	11.066	36459	75.383
m,p-Xylenes	11.333	11.399	180737	298.207
o-Xylene	12.133	12.199	55885	115.493
Bromofluorobenzene (PID)	12.983	13.032	130640	430.689

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_052**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/23/2008 3:52:23 AM
Analysis Date: 3/24/2008 10:26:16 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_052

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Horizontal Baseline	0.742	24.988	0
Yes	Split Peak	5.572	0	0

: 99199

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Type	: MSS	Type	: MS	Type	: MSD
Inst	: GC07	Inst	: GC07	Inst	: GC07
Seqnum	: 328115877011	Seqnum	: 328115877014.1	Seqnum	: 328115877015.1
File	: 080_011	File	: 080_014	File	: 080_015
IDF	: 1.0	IDF	: 1.0	IDF	: 1.0
PDF	: 0.7704	PDF	: 0.78	PDF	: 0.7386
Lab ID	: 202043-001	Lab ID	: QC433867	Lab ID	: QC433868
Matrix	: Soil	Matrix	: Soil	Matrix	: Soil
Batch	: 136219	Batch	: 136219	Batch	: 136219
Time	: 20-MAR-2008 21:09	Time	: 20-MAR-2008 22:56	Time	: 20-MAR-2008 23:32
Cal	: 328028223001	Cal	: 328028223001	Cal	: 328028223001
Cal	: 328095970001	Cal	: 328095970001	Cal	: 328095970001
Units	: mg/Kg				

Analyte	MSS	Ch	Spiked	MS On Col	MS Result	Ch	%Rec	Spiked	MSD On Col	MSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Gasoline C7-C12	0.01190 J	A	1.560	11370	1.774	A	113	1.477	10810	1.597	A	107	75-125	5	35	u
Trifluorotoluene (FID)			0.07863	450.3	0.07024	A	89	0.07445	472.0	0.06972	A	94	65-135			u
Bromofluorobenzene (FID)			0.07863	441.1	0.06881	A	88	0.07445	431.3	0.06370	A	86	65-135			u

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

328115877015.1

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **ms,qc433867,136219,s8447,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_014**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 10:56:42 PM
Analysis Date: 3/21/2008 8:00:50 AM
Sample Amount: 6.41 Multiplier: 6.41
Vial & pH or Core ID: f

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1073549	450.252
Bromofluorobenzene (FID)	14.883	14.900	856859	441.079
GAS:6-8			4182012	0.000
GAS:6-10			10979125	10119.614
GAS:8-10			6797113	0.000
GAS:6-12			15209503	10866.319
GAS:7-12			13124859	11369.925
JP4:7-12			13124859	7807.312

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.833	393861	101.098
Benzene	4.233	4.167	798816	97.214
Trifluorotoluene (PID)	5.600	5.550	1178024	382.204
Toluene	8.017	7.967	4722502	580.619
Ethylbenzene	11.867	11.817	744639	120.928
m,p-Xylenes	12.083	12.033	3973470	462.884
o-Xylene	13.200	13.150	1389396	194.609
Bromofluorobenzene (PID)	14.883	14.833	3300569	404.683

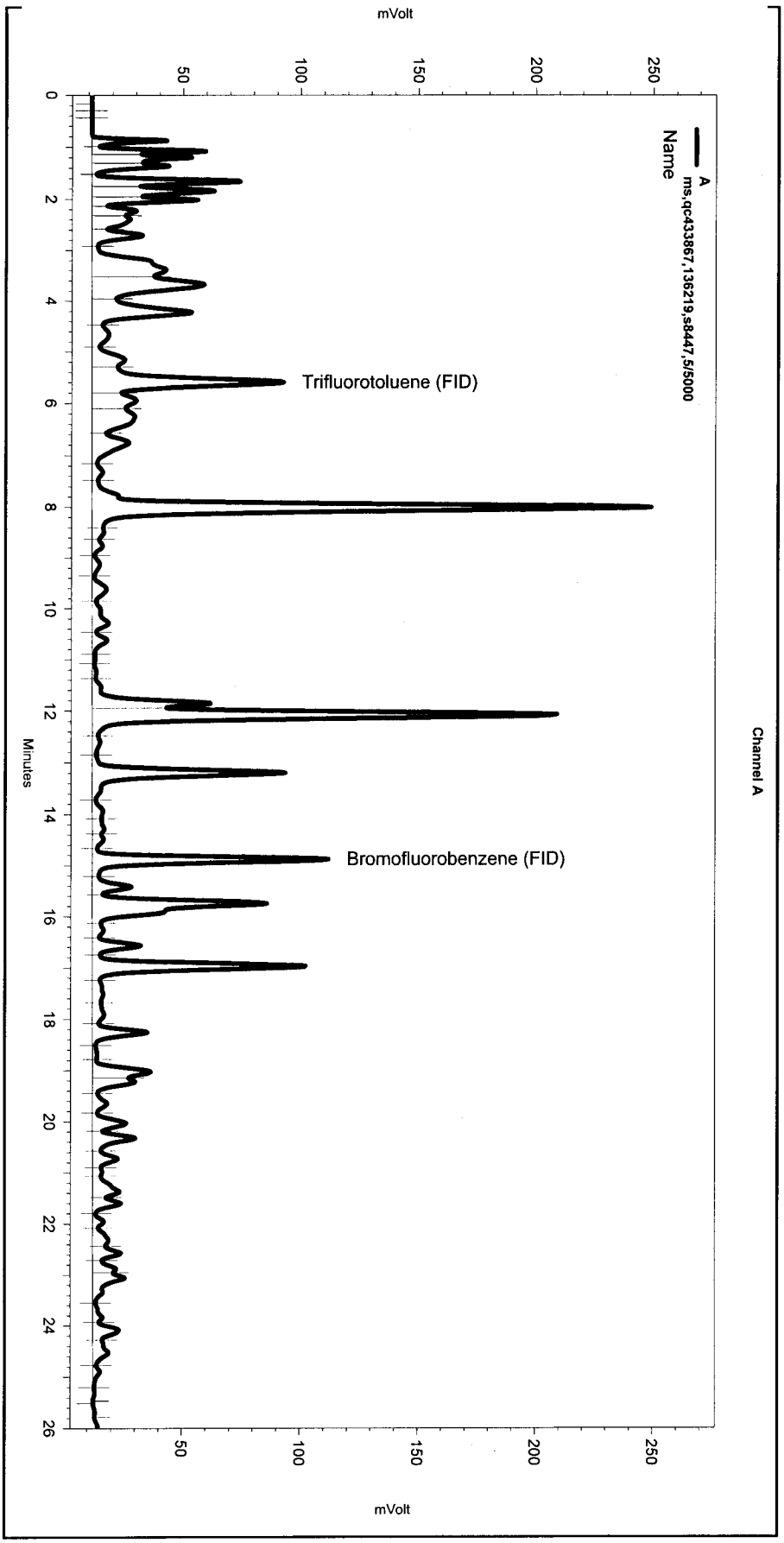
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.800	1.750	131870	84.846
Benzene	3.200	3.133	285320	88.318
Trifluorotoluene (PID)	4.516	4.466	504618	390.980
Toluene	6.533	6.483	2164188	666.589
Ethylbenzene	10.149	10.099	315175	123.471
m,p-Xylenes	10.499	10.466	1742900	523.654
o-Xylene	11.349	11.316	586387	207.323
Bromofluorobenzene (PID)	12.249	12.216	1448978	400.186

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **ms,qc433867,136219,s8447,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_014**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 10:56:42 PM
Analysis Date: 3/21/2008 8:00:50 AM
Sample Amount: 6.41 Multiplier: 6.41
Vial & pH or Core ID: f



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **msd,qc433868,136219,s8447,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_015**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 11:32:28 PM
Analysis Date: 3/21/2008 8:00:54 AM
Sample Amount: 6.77 Multiplier: 6.77
Vial & pH or Core ID: e

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1125348	471.977
Bromofluorobenzene (FID)	14.900	14.900	837825	431.281
GAS:6-8			4661061	0.000
GAS:6-10			11331229	10444.154
GAS:8-10			6670168	0.000
GAS:6-12			14989008	10708.788
GAS:7-12			12484098	10814.841
JP4:7-12			12484098	7426.155

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.833	389860	100.071
Benzene		4.167		0.000 BDL
Trifluorotoluene (PID)	5.600	5.550	1237154	401.388
Toluene	8.017	7.967	4712348	579.371
Ethylbenzene	11.867	11.817	776776	126.147
m,p-Xylenes	12.083	12.033	3944161	459.470
o-Xylene	13.200	13.150	1399545	196.031
Bromofluorobenzene (PID)	14.900	14.833	3281441	402.338

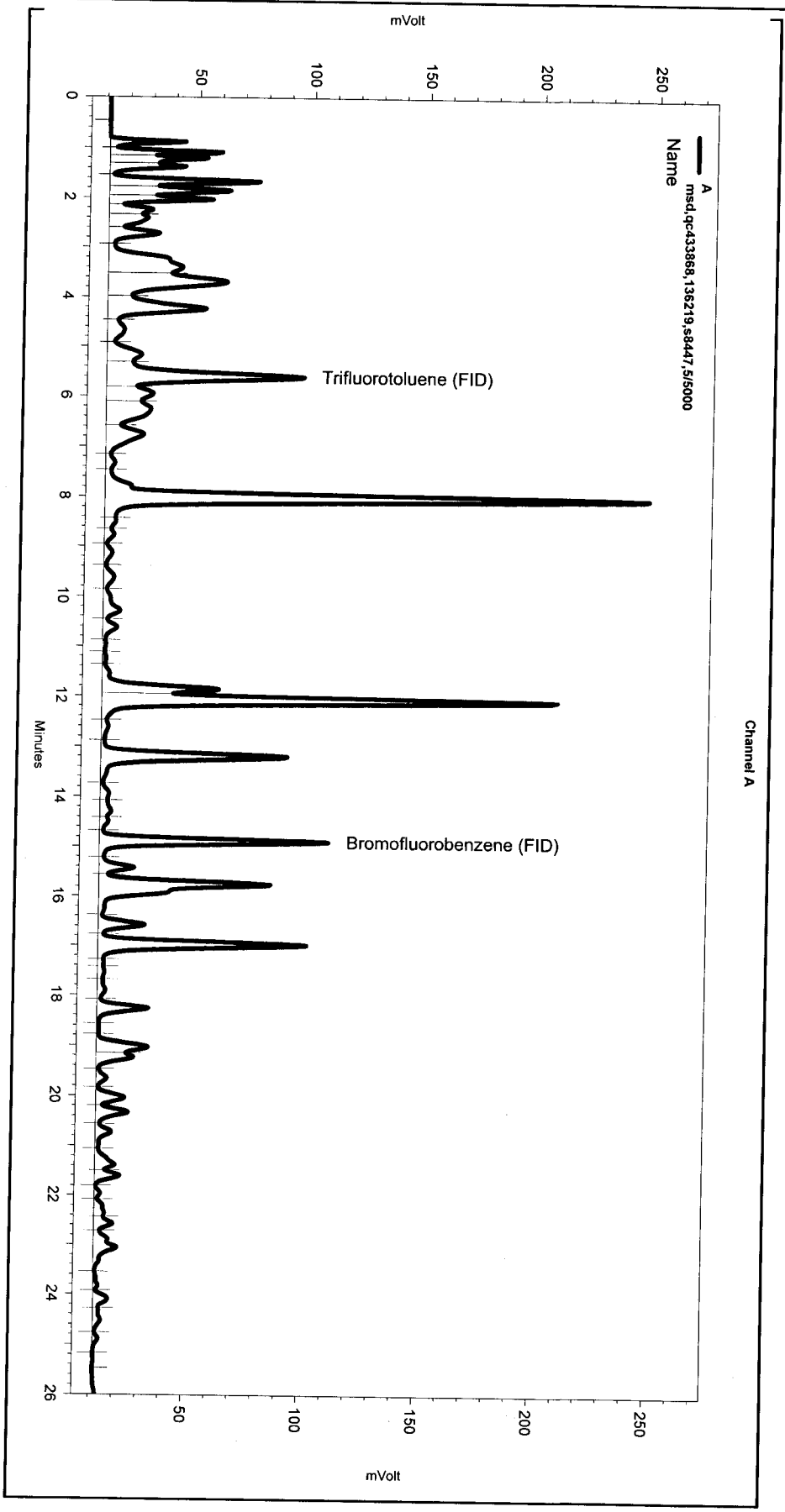
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.800	1.750	159078	102.352
Benzene	3.200	3.133	314627	97.390
Trifluorotoluene (PID)	4.516	4.466	559778	433.718
Toluene	6.533	6.483	2182349	672.183
Ethylbenzene	10.149	10.099	335254	131.338
m,p-Xylenes	10.499	10.466	1782604	535.583
o-Xylene	11.349	11.316	620689	219.450
Bromofluorobenzene (PID)	12.249	12.216	1465170	404.658

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **msd,qc433868,136219,s8447,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_015**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 11:32:28 PM
Analysis Date: 3/21/2008 8:00:54 AM
Sample Amount: 6.77 Multiplier: 6.77
Vial & pH or Core ID: e



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

00105

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Type	: MSS	Type	: MS	Type	: MSD
Inst	: GC04	Inst	: GC04	Inst	: GC04
Seqnum	: 308117094035	Seqnum	: 308117094071.5	Seqnum	: 308117094072.5
File	: 081_035	File	: 081_071	File	: 081_072
IDF	: 1.0	IDF	: 1.0	IDF	: 1.0
PDF	: 5.319	PDF	: 5.376	PDF	: 5.435
Lab ID	: 201977-003	Lab ID	: QC434088	Lab ID	: QC434089
Matrix	: Soil	Matrix	: Soil	Matrix	: Soil
Batch	: 136270	Batch	: 136270	Batch	: 136270
Time	: 22-MAR-2008 17:03	Time	: 24-MAR-2008 15:52	Time	: 24-MAR-2008 16:29
Cal	: 307240439001	Cal	: 307240439001	Cal	: 307240439001
Cal	: 308079642001	Cal	: 308079642001	Cal	: 308079642001
Units	: mg/Kg				

Analyte	MSS	Ch	Spiked	MS On Col	MS Result	Ch	%Rec	Spiked	MSD On Col	MSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Gasoline C7-C12	19.03	A	10.75	18140	19.51	A	**4***	10.87	47380	51.50	A	**299***	75-125	**90***	35	u
Trifluorotoluene (FID)			0.5419	926.5	0.9963	A	**184***	0.5478	639.2	0.6948	A	127	65-135			<c+ >c+ u
Bromofluorobenzene (FID)			0.5419	955.8	1.028	A	**190***	0.5478	1908	2.074	A	**379***	65-135			u

MRC 03/24/08 : Recovery fails do to sample non-homogeneity. All four runs look consistent, but the recovery varies too much to pass. Surrogates are failing high due to co-elution with the sample hydrocarbons. [general version]

LH 03/25/08 [Trifluorotoluene (FID) A]: Fails high due to coelution with sample hydrocarbons. [general version]

LH 03/25/08 [Bromofluorobenzene (FID) A]: Fails high due to coelution with sample hydrocarbons. [general version]

Analyst: PDM Date: 03/27/08 Reviewer: CW Date: 03/28/08

+=high bias <=opening >=closing c=CCV u=use

308117094072.5

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ms,qc434088,136270,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_071**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/24/2008 3:52:02 PM
Analysis Date: 3/24/2008 5:46:40 PM
Sample Amount: 0.93 Multiplier: 0.93
Vial & pH or Core ID: a

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.817	5.833	3371302	926.534
Bromofluorobenzene (FID)	14.567	14.600	2127119	955.797
GAS:6-8			26157622	0.000
GAS:6-10			68078632	14887.503
GAS:8-10			41921008	0.000
GAS:6-12			94577480	16701.669
GAS:7-12			79780968	18141.065
JP4:7-12			79780968	17289.263

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		2.050		0.000 BDL
Benzene	4.433	4.433	2490674	117.538
Trifluorotoluene (PID)	5.817	5.833	2905176	572.947
Toluene	8.167	8.167	13895011	694.085
Ethylbenzene	11.783	11.800	3341084	201.413
m,p-Xylenes	12.000	12.017	11099004	520.301
o-Xylene	13.017	13.050	4456280	264.873
Bromofluorobenzene (PID)	14.567	14.600	5472425	528.273

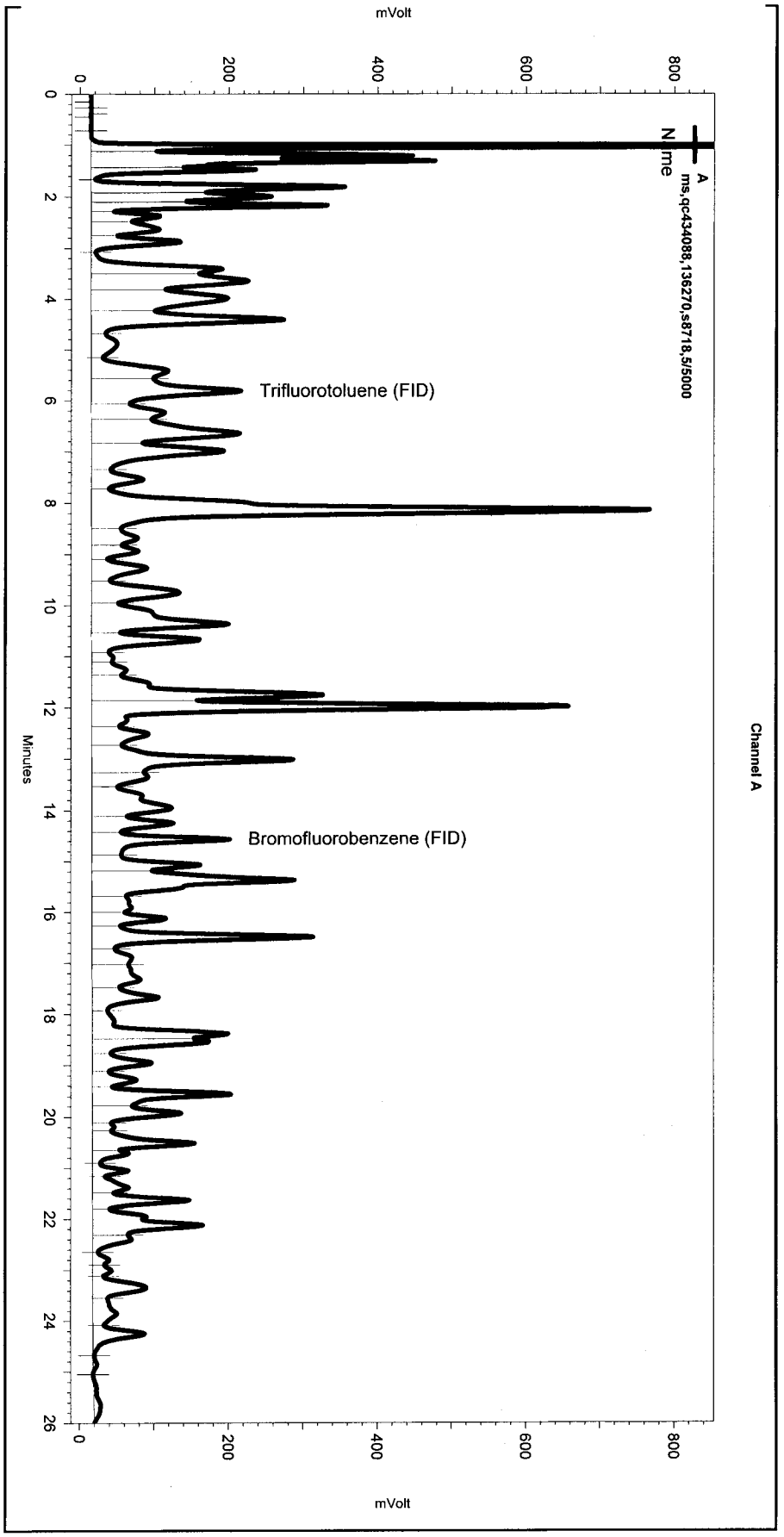
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.383	2.333	47573	258.956
Benzene	4.016	4.016	81643	135.861
Trifluorotoluene (PID)	5.483	5.500	97107	644.196
Toluene	7.550	7.566	507033	917.237
Ethylbenzene	11.033	11.066	93667	193.668
m,p-Xylenes	11.366	11.399	388680	641.302
o-Xylene	12.166	12.199	127774	264.060
Bromofluorobenzene (PID)	12.999	13.032	189445	624.555

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ms,qc434088,136270,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_071**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/24/2008 3:52:02 PM
Analysis Date: 3/24/2008 5:46:40 PM
Sample Amount: 0.93 Multiplier: 0.93
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_071

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **msd,qc434089,136270,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_072**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/24/2008 4:29:44 PM
Analysis Date: 3/24/2008 5:46:43 PM
Sample Amount: 0.92 Multiplier: 0.92
Vial & pH or Core ID: a

GC04
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.767	5.833	2325729	639.179
Bromofluorobenzene (FID)	14.567	14.600	4245484	1907.661
GAS:6-8			69406600	0.000
GAS:6-10			183121184	40045.123
GAS:8-10			113714568	0.000
GAS:6-12			240498800	42470.263
GAS:7-12			208348736	47375.559
JP4:7-12			208348736	45151.069

BTXE Instrument Results
Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.100	2.050	763465	116.013
Benzene	4.433	4.433	3066977	144.734
Trifluorotoluene (PID)	5.800	5.833	2873752	566.750
Toluene	8.167	8.167	15917027	795.089
Ethylbenzene	11.767	11.800	5063377	305.239
m,p-Xylenes	12.000	12.017	11172126	523.729
o-Xylene	13.017	13.050	5019596	298.355
Bromofluorobenzene (PID)	14.567	14.600	4845148	467.719

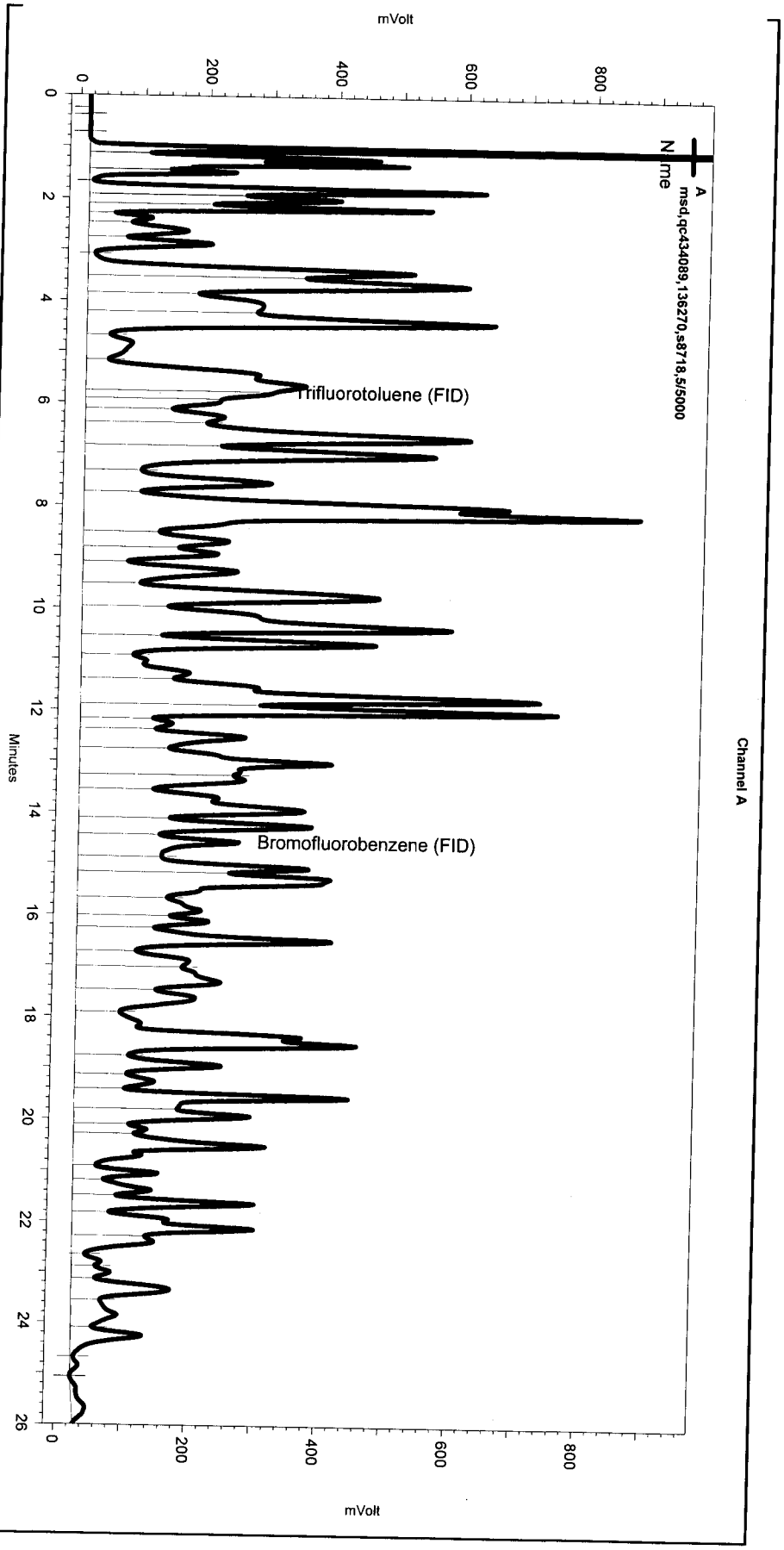
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.400	2.333	64394	350.518
Benzene	4.016	4.016	92331	153.647
Trifluorotoluene (PID)	5.500	5.500	101808	675.382
Toluene	7.550	7.566	586592	1061.161
Ethylbenzene	11.049	11.066	214664	443.844
m,p-Xylenes	11.366	11.399	502917	829.788
o-Xylene	12.166	12.199	215274	444.890
Bromofluorobenzene (PID)	12.999	13.032	373941	1232.795

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **msd,qc434089,136270,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_072**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/24/2008 4:29:44 PM
Analysis Date: 3/24/2008 5:46:43 PM
Sample Amount: 0.92 Multiplier: 0.92
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_072

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.767	0	0
Yes	Split Peak	5.923	0	0

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Type	: MSS	Type	: MS	Type	: MSD
Inst	: GC04	Inst	: GC04	Inst	: GC04
Seqnum	: 308117094035	Seqnum	: 308117094036.1	Seqnum	: 308117094037.1
File	: 081_035	File	: 081_036	File	: 081_037
IDF	: 1.0	IDF	: 1.0	IDF	: 1.0
PDF	: 5.319	PDF	: 5.208	PDF	: 4.95
Lab ID	: 201977-003	Lab ID	: QC434088	Lab ID	: QC434089
Matrix	: Soil	Matrix	: Soil	Matrix	: Soil
Batch	: 136270	Batch	: 136270	Batch	: 136270
Time	: 22-MAR-2008 17:03	Time	: 22-MAR-2008 17:43	Time	: 22-MAR-2008 18:20
Cal	: 307240439001	Cal	: 307240439001	Cal	: 307240439001
Cal	: 308079642001	Cal	: 308079642001	Cal	: 308079642001
Units	: mg/Kg				

Analyte	MSS	Ch	Spiked	MS On Col	MS Result	Ch	%Rec	Spiked	MSD On Col	MSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Gasoline C7-C12	19.03	A	10.42	83960 >LR	**87.46 >LR**	A	657	9.901	60200 >LR	**59.60 >LR**	A	410	75-125		35	>LR **b***
Trifluorotoluene (FID)			0.5250	890.6	0.9277	A	**177***	0.4990	760.7	0.7532	A	**151***	65-135			<C+ >C+
Bromofluorobenzene (FID)			0.5250	1823	1.899	A	**362***	0.4990	2479	2.455	A	**492***	65-135			>C+

Analyst: PDM Date: 03/27/08 Reviewer: CW Date: 03/28/08

+=high bias <=opening >=closing >LR=overrange b=noncompliant c=CCV

308117094037.1

: 20111

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq
Sample Name: **ms,qc434088,136270,s8718,5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_036
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 5:43:01 PM
Analysis Date: 3/25/2008 5:25:44 PM
Sample Amount: 0.96 Multiplier: 0.96
Vial & pH or Core ID: a

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.750	5.833	3240505	890.587
Bromofluorobenzene (FID)	14.567	14.600	4056660	1822.815
GAS:6-8			152082464	0.000
GAS:6-10			326628416	71427.448
GAS:8-10			174546032	0.000
GAS:6-12			423260672	74744.654
GAS:7-12			369242624	83960.581
JP4:7-12			369242624	80018.265

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.000	2.050	639690	97.204
Benzene	4.383	4.433	4626934	218.351
Trifluorotoluene (PID)		5.833		0.000 BDL
Toluene	8.150	8.167	17135986	855.978
Ethylbenzene	11.750	11.800	9694216	584.402
m,p-Xylenes	12.000	12.017	13154787	616.673
o-Xylene	13.017	13.050	8973927	533.393
Bromofluorobenzene (PID)	14.567	14.600	9123048	880.680

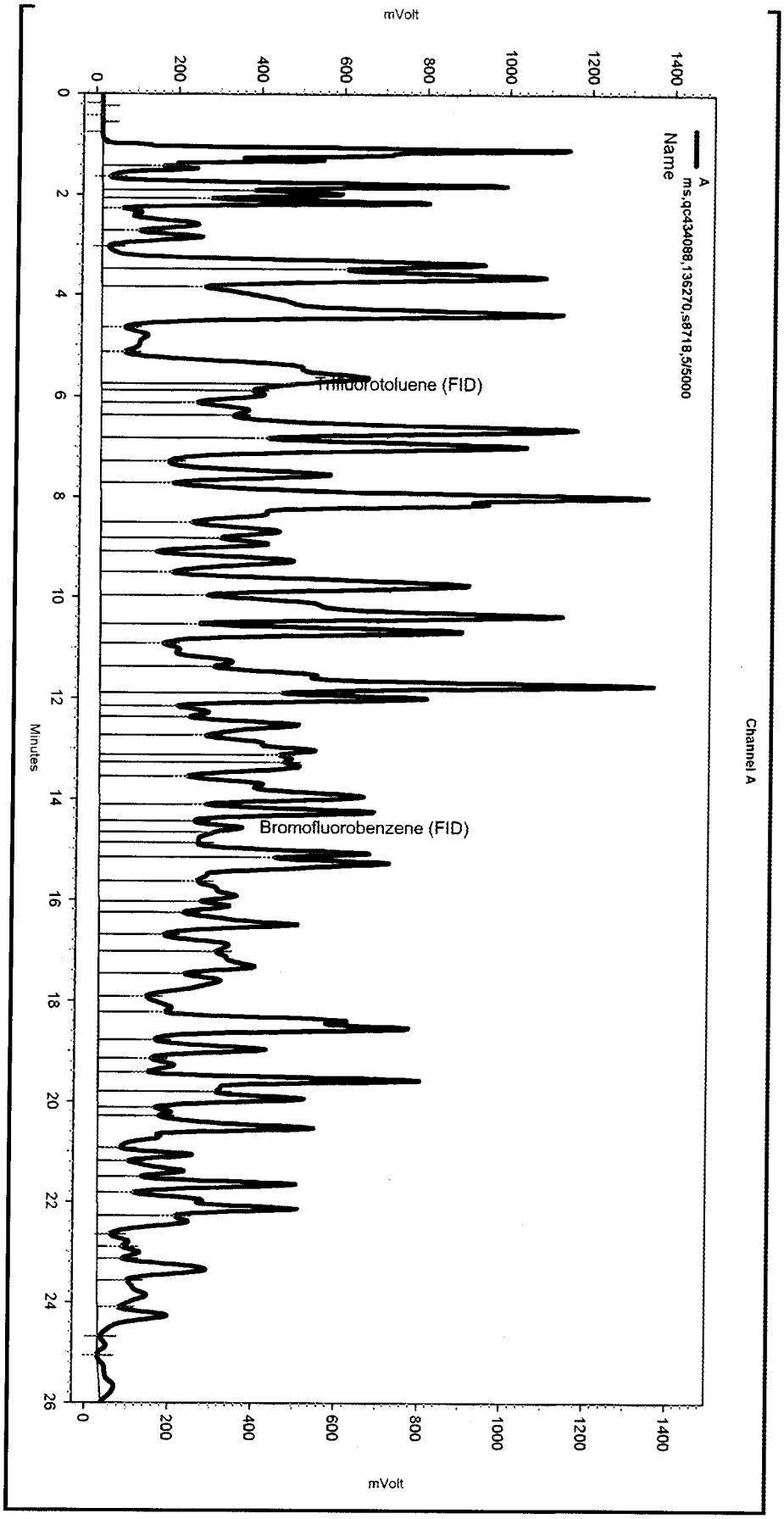
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.367	2.333	29699	161.662
Benzene	3.983	4.016	82712	137.640
Trifluorotoluene (PID)	5.466	5.500	112416	745.754
Toluene	7.533	7.566	552458	999.412
Ethylbenzene	11.049	11.066	298714	617.628
m,p-Xylenes	11.366	11.399	506488	835.680
o-Xylene	12.166	12.199	256017	529.090
Bromofluorobenzene (PID)	12.999	13.032	469916	1549.202

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ms,qc434088,136270,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_036**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 5:43:01 PM
Analysis Date: 3/25/2008 5:25:44 PM
Sample Amount: 0.96 Multiplier: 0.96
Vial & pH or Core ID: a



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.749	0	0
Yes	Split Peak	14.667	0	0

0013

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **msd,qc434089,136270,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_037**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 6:20:42 PM
Analysis Date: 3/25/2008 5:25:48 PM
Sample Amount: 1.01 Multiplier: 1.01
Vial & pH or Core ID: a

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.750	5.833	2767851	760.687
Bromofluorobenzene (FID)	14.567	14.600	5517575	2479.261
GAS:6-8			97233536	0.000
GAS:6-10			231707824	50670.107
GAS:8-10			134474304	0.000
GAS:6-12			303136224	53531.574
GAS:7-12			264739104	60197.946
JP4:7-12			264739104	57371.389

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.000	2.050	489561	74.391
Benzene	4.400	4.433	2868148	135.351
Trifluorotoluene (PID)	5.767	5.833	3189799	629.079
Toluene	8.150	8.167	13162556	657.497
Ethylbenzene	11.750	11.800	6136308	369.919
m,p-Xylenes	11.983	12.017	9453381	443.157
o-Xylene	13.017	13.050	4926988	292.851
Bromofluorobenzene (PID)	14.567	14.600	4997518	482.428

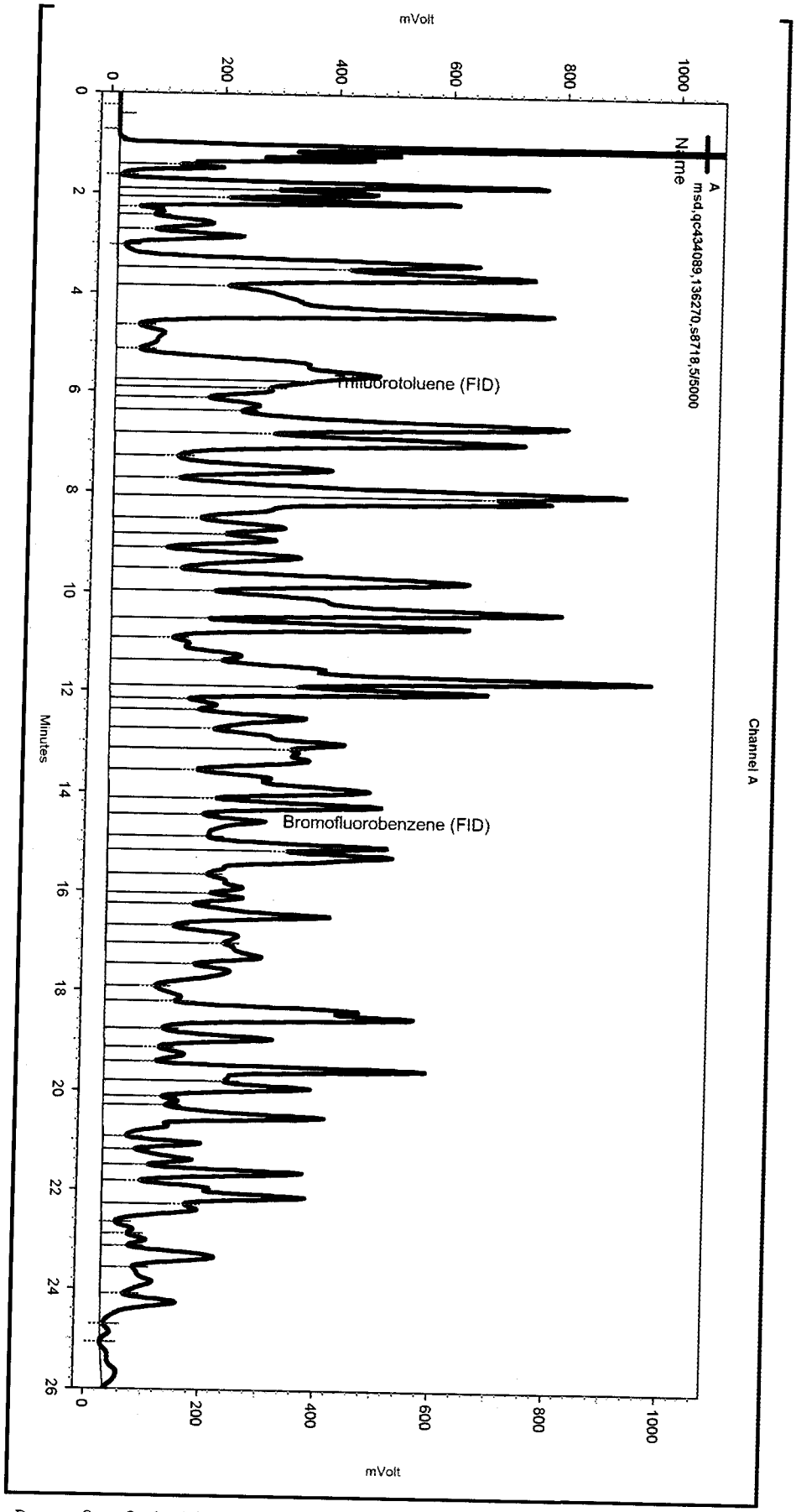
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.367	2.333	21601	117.582
Benzene	3.983	4.016	69299	115.320
Trifluorotoluene (PID)	5.466	5.500	101460	673.073
Toluene	7.533	7.566	510996	924.406
Ethylbenzene	11.049	11.066	254947	527.134
m,p-Xylenes	11.366	11.399	470574	776.423
o-Xylene	12.166	12.199	230439	476.230
Bromofluorobenzene (PID)	12.999	13.032	453888	1496.361

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **msd,qc434089,136270,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_037**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 6:20:42 PM
Analysis Date: 3/25/2008 5:25:48 PM
Sample Amount: 1.01 Multiplier: 1.01
Vial & pH or Core ID: a



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_037

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.751	0	0
Yes	Split Peak	5.892	0	0

0215

Curtis & Tompkins, Ltd.

Initial Calibration Data

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCVOA Soil: EPA 8015B

Inst : GC04
Calnum : 307240439001
Units : ng

Name : GC04 TVH 166
Date : 16-JUN-2007 00:35
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	166_019	307240439019	TVH 1	16-JUN-2007 00:35	S5937 (1000X), S6435 (5000X)
L2	166_020	307240439020	TVH 2	16-JUN-2007 01:13	S5936 (1000X), S6435 (5000X)
L3	166_021	307240439021	TVH 3	16-JUN-2007 01:51	S5935 (1000X), S6435 (5000X)
L4	166_022	307240439022	TVH 4	16-JUN-2007 02:29	S5934 (2000X), S6435 (5000X)
L5	166_023	307240439023	TVH 5	16-JUN-2007 03:07	S5934 (1000X), S6435 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	4967.9	4373.2	4212.1	4371.4	4064.4	AVRG		2.27E-4		4397.8	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	13	2500	-1	10000	-4	25000	-1	50000	-8

Analyst: MJM Date: 06/18/07 Reviewer: CW Date: 06/19/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04
Calnum : 307240439001

Name : GC04 TVH 166
Cal Date : 16-JUN-2007

ICV 307240439025 (166_025 16-JUN-2007) stds: S6393 (1000X), S6435 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	4397.8	4535.9	10000	10310	ng	3	

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**	Software Version 3.1.7
Sample Name: **ical,tvh 1,s5937,5/5000**	Run Date: 6/16/2007 12:35:27 AM
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_019**	Analysis Date: 6/18/2007 10:39:41 AM
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)	Sample Amount: 1 Multiplier: 1
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met	Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.850	5.850	1641124	0.000 CAL
Bromofluorobenzene (FID)	14.633	14.617	1016740	0.000 CAL
GAS:6-8			647079	0.000 CAL
GAS:6-10			1252417	250.000 CAL
GAS:8-10			605338	0.000 CAL
GAS:6-12			1550917	250.000 CAL
GAS:7-12			1241978	250.000 CAL
JP4:7-12			1241978	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.117	2.050	14048	0.000 CAL
Benzene	4.467	4.450	21061	0.000 CAL
Trifluorotoluene (PID)	5.850	5.850	572976	0.000 CAL
Toluene	8.200	8.200	124052	0.000 CAL
Ethylbenzene	11.833	11.833	26829	0.000 CAL
m,p-Xylenes	12.050	12.033	100595	0.000 CAL
o-Xylene	13.067	13.067	35513	0.000 CAL
Bromofluorobenzene (PID)	14.633	14.617	1216810	0.000 CAL

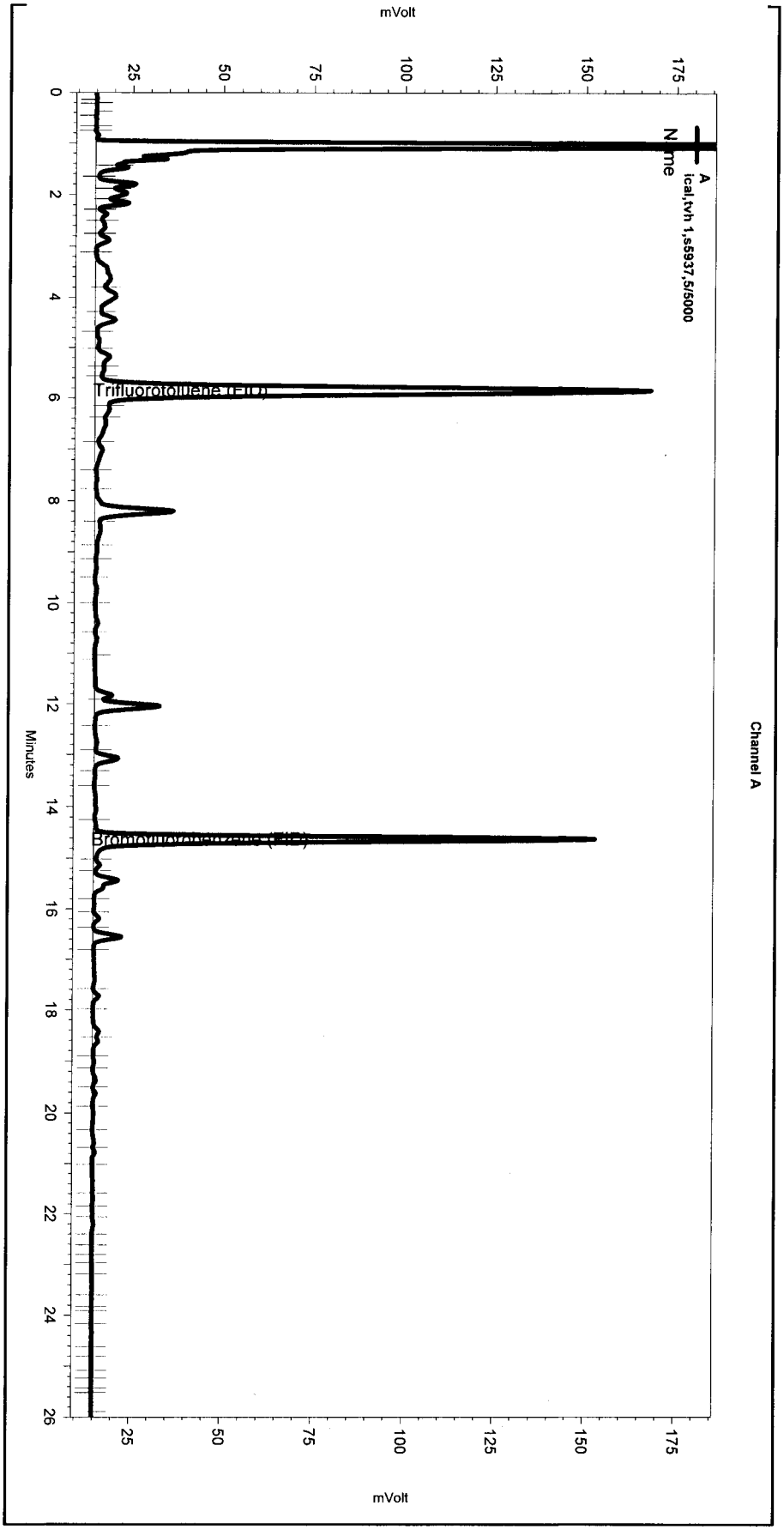
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	2770	0.000 CAL
Benzene	4.033	4.016	3876	0.000 CAL
Trifluorotoluene (PID)	5.516	5.500	150413	0.000 CAL
Toluene	7.583	7.566	26139	0.000 CAL
Ethylbenzene	11.083	11.083	3089	0.000 CAL
m,p-Xylenes	11.416	11.416	19132	0.000 CAL
o-Xylene	12.216	12.216	5250	0.000 CAL
Bromofluorobenzene (PID)	13.066	13.049	308400	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**
Sample Name: **ical,tvh 1,s5937,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_019**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met

Software Version 3.1.7
Run Date: 6/16/2007 12:35:27 AM
Analysis Date: 6/18/2007 10:39:41 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\166_019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq
Sample Name: **ical,tvh 2,s5936,5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\166_020
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met

Software Version 3.1.7
Run Date: 6/16/2007 1:13:22 AM
Analysis Date: 6/18/2007 10:39:47 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.867	5.850	1782418	0.000 CAL
Bromofluorobenzene (FID)	14.633	14.617	1040550	0.000 CAL
GAS:6-8			5824447	0.000 CAL
GAS:6-10			11505906	2500.000 CAL
GAS:8-10			5681459	0.000 CAL
GAS:6-12			14315682	2500.000 CAL
GAS:7-12			10933110	2500.000 CAL
JP4:7-12			10933110	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.983	2.050	44898	0.000 CAL
Benzene	4.467	4.450	216252	0.000 CAL
Trifluorotoluene (PID)	5.867	5.850	596991	0.000 CAL
Toluene	8.217	8.200	1222235	0.000 CAL
Ethylbenzene	11.850	11.833	206801	0.000 CAL
m,p-Xylenes	12.050	12.033	986587	0.000 CAL
o-Xylene	13.083	13.067	333359	0.000 CAL
Bromofluorobenzene (PID)	14.633	14.617	1263797	0.000 CAL

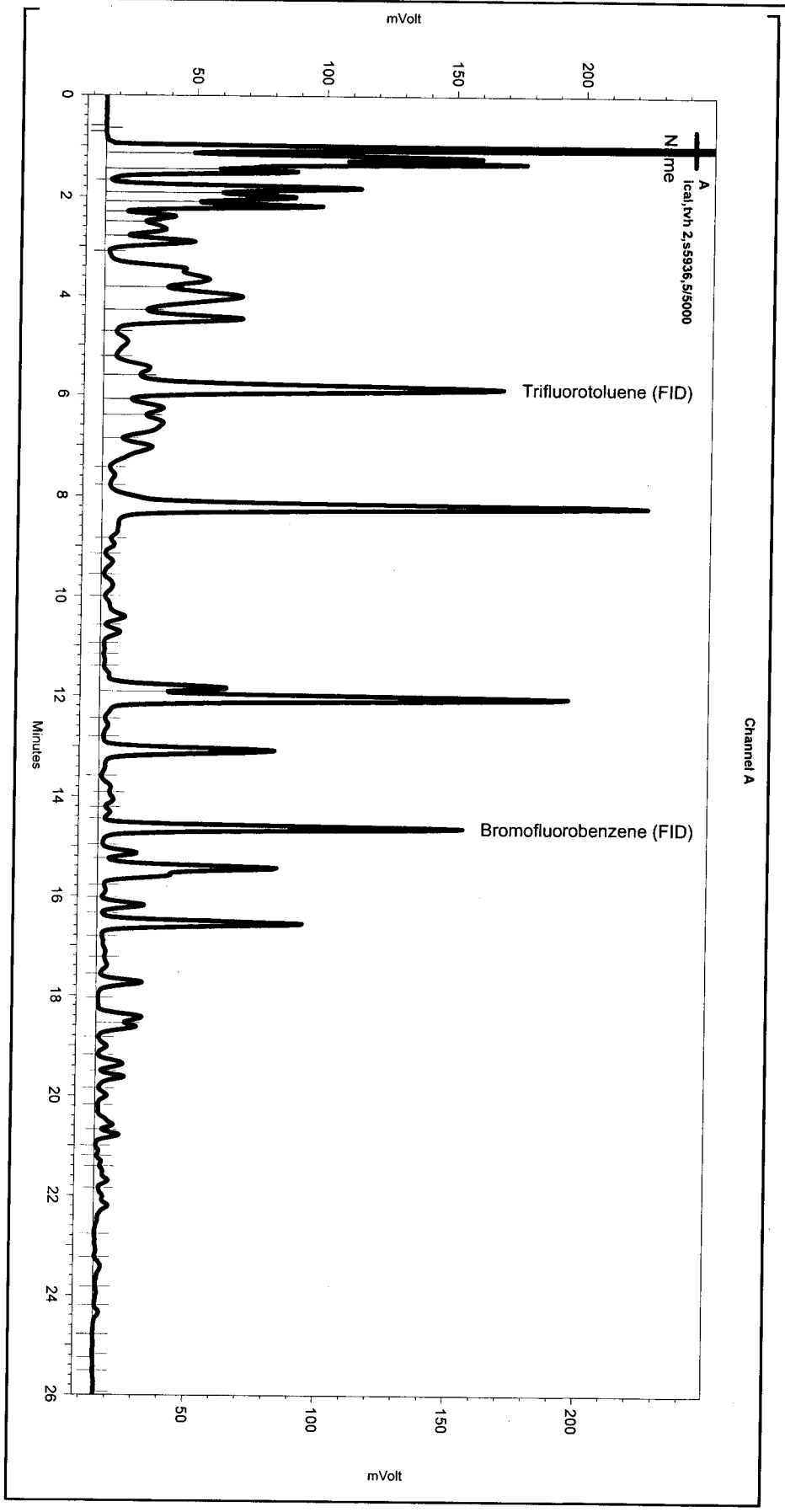
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.400	2.333	31669	0.000 CAL
Benzene	4.050	4.016	50737	0.000 CAL
Trifluorotoluene (PID)	5.533	5.500	172753	0.000 CAL
Toluene	7.600	7.566	325820	0.000 CAL
Ethylbenzene	11.099	11.083	51559	0.000 CAL
m,p-Xylenes	11.416	11.416	252281	0.000 CAL
o-Xylene	12.233	12.216	78311	0.000 CAL
Bromofluorobenzene (PID)	13.066	13.049	321461	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**
Sample Name: **ical,tvh 2,s5936,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_020**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met

Software Version 3.1.7
Run Date: 6/16/2007 1:13:22 AM
Analysis Date: 6/18/2007 10:39:47 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\166_020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**	Software Version 3.1.7
Sample Name: **ical,tvh 3,s5935,5/5000**	Run Date: 6/16/2007 1:51:19 AM
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_021**	Analysis Date: 6/18/2007 10:39:53 AM
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)	Sample Amount: 1 Multiplier: 1
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met	Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.867	5.850	1976990	0.000 CAL
Bromofluorobenzene (FID)	14.633	14.617	1118247	0.000 CAL
GAS:6-8			23508488	0.000 CAL
GAS:6-10			45183016	10000.000 CAL
GAS:8-10			21674536	0.000 CAL
GAS:6-12			55540488	10000.000 CAL
GAS:7-12			42120768	10000.000 CAL
JP4:7-12			42120768	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		2.050		0.000 BDL
Benzene	4.467	4.450	872674	0.000 CAL
Trifluorotoluene (PID)	5.867	5.850	765153	0.000 CAL
Toluene	8.217	8.200	4603046	0.000 CAL
Ethylbenzene	11.850	11.833	755746	0.000 CAL
m,p-Xylenes	12.050	12.033	3772442	0.000 CAL
o-Xylene	13.083	13.067	1214427	0.000 CAL
Bromofluorobenzene (PID)	14.633	14.617	1390361	0.000 CAL

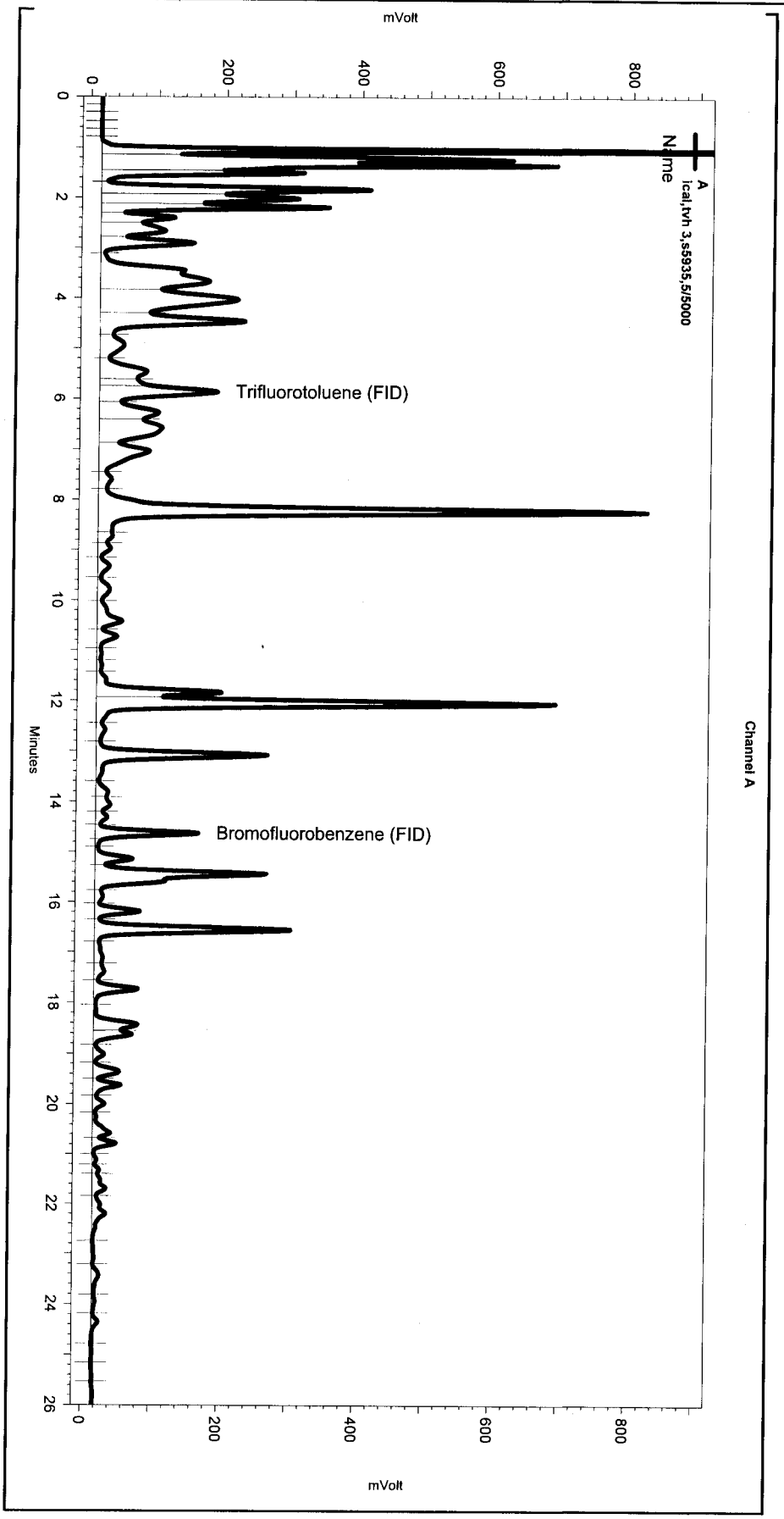
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.400	2.333	152648	0.000 CAL
Benzene	4.050	4.016	232418	0.000 CAL
Trifluorotoluene (PID)	5.533	5.500	234816	0.000 CAL
Toluene	7.600	7.566	1333849	0.000 CAL
Ethylbenzene	11.099	11.083	224359	0.000 CAL
m,p-Xylenes	11.416	11.416	1018491	0.000 CAL
o-Xylene	12.233	12.216	330748	0.000 CAL
Bromofluorobenzene (PID)	13.066	13.049	378672	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**
Sample Name: **ical,tvh 3,s5935,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_021**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met

Software Version 3.1.7
Run Date: 6/16/2007 1:51:19 AM
Analysis Date: 6/18/2007 10:39:53 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\166_021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.745	0	0
Yes	Split Peak	14.751	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**
Sample Name: **ical,tvh 4,s5934,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_022**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met

Software Version 3.1.7
Run Date: 6/16/2007 2:29:15 AM
Analysis Date: 6/18/2007 10:39:59 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.850	5.850	2469722	0.000 CAL
Bromofluorobenzene (FID)	14.633	14.617	1205679	0.000 CAL
GAS:6-8			54849332	0.000 CAL
GAS:6-10			110691608	25000.000 CAL
GAS:8-10			55842276	0.000 CAL
GAS:6-12			137979904	25000.000 CAL
GAS:7-12			109286000	25000.000 CAL
JP4:7-12			109286000	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		2.050		0.000 BDL
Benzene	4.467	4.450	2278407	0.000 CAL
Trifluorotoluene (PID)	5.850	5.850	1043350	0.000 CAL
Toluene	8.217	8.200	11835766	0.000 CAL
Ethylbenzene	11.850	11.833	1985360	0.000 CAL
m,p-Xylenes	12.050	12.033	9792834	0.000 CAL
o-Xylene	13.083	13.067	3171008	0.000 CAL
Bromofluorobenzene (PID)	14.633	14.617	1460099	0.000 CAL

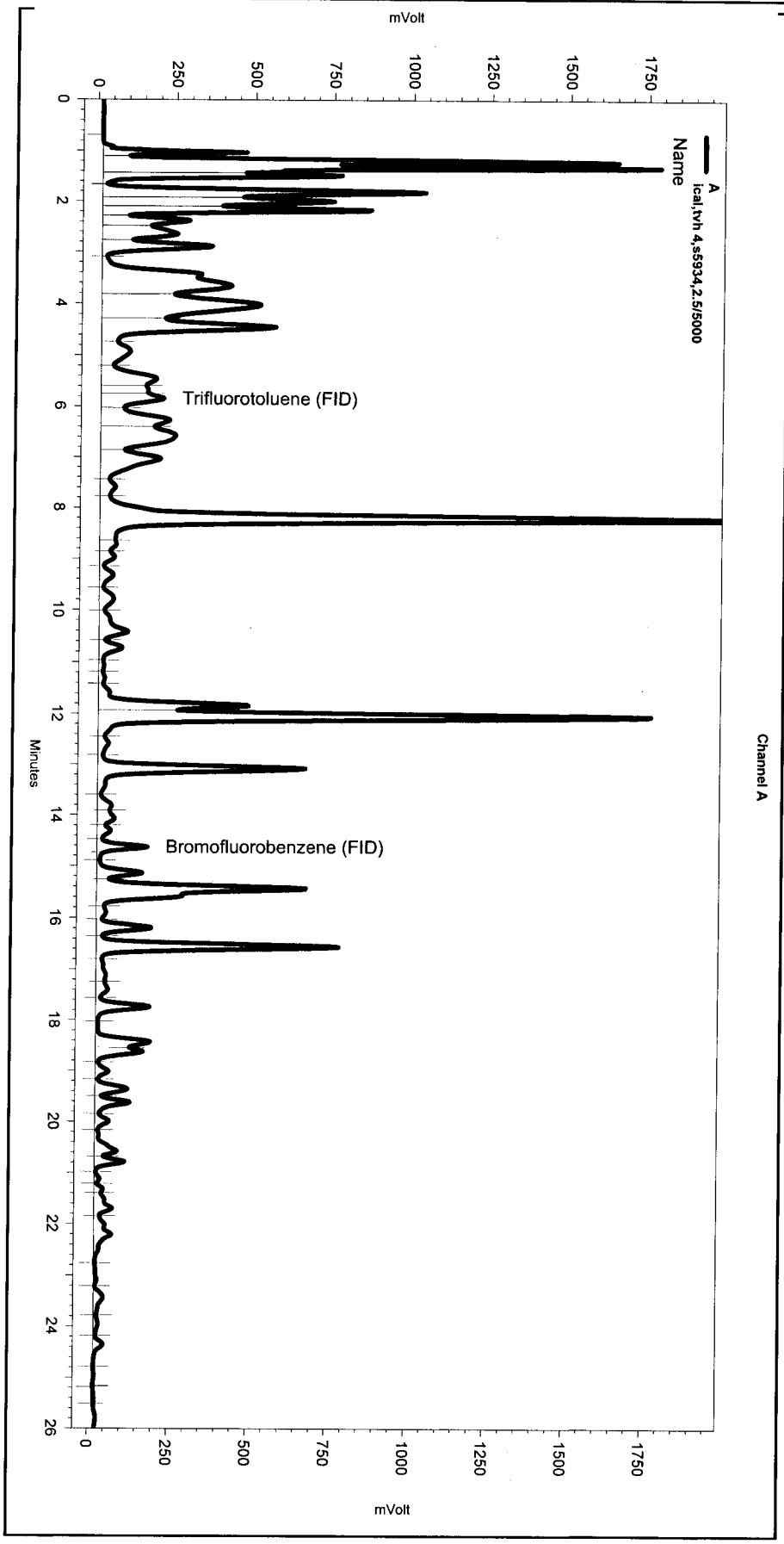
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.383	2.333	413923	0.000 CAL
Benzene	4.033	4.016	631856	0.000 CAL
Trifluorotoluene (PID)	5.533	5.500	336278	0.000 CAL
Toluene	7.600	7.566	3412671	0.000 CAL
Ethylbenzene	11.099	11.083	608893	0.000 CAL
m,p-Xylenes	11.416	11.416	2683597	0.000 CAL
o-Xylene	12.233	12.216	901026	0.000 CAL
Bromofluorobenzene (PID)	13.066	13.049	413617	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**
Sample Name: **ical,tvh 4,s5934,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_022**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met

Software Version 3.1.7
Run Date: 6/16/2007 2:29:15 AM
Analysis Date: 6/18/2007 10:39:59 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\166_022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.75	0	0
Yes	Split Peak	14.735	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**	Software Version 3.1.7
Sample Name: **ical,tvh 5,s5934,5/5000**	Run Date: 6/16/2007 3:07:14 AM
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_023**	Analysis Date: 6/18/2007 10:40:05 AM
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)	Sample Amount: 1 Multiplier: 1
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met	Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.800	5.850	2476725	0.000 CAL
Bromofluorobenzene (FID)	14.633	14.617	1353113	0.000 CAL
GAS:6-8			112105400	0.000 CAL
GAS:6-10			215317776	50000.000 CAL
GAS:8-10			103212416	0.000 CAL
GAS:6-12			265529808	50000.000 CAL
GAS:7-12			203218896	50000.000 CAL
JP4:7-12			203218896	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.000	2.050	977955	0.000 CAL
Benzene	4.467	4.450	4278477	0.000 CAL
Trifluorotoluene (PID)	5.850	5.850	947791	0.000 CAL
Toluene	8.217	8.200	21623846	0.000 CAL
Ethylbenzene	11.850	11.833	3869446	0.000 CAL
m,p-Xylenes	12.067	12.033	17637798	0.000 CAL
o-Xylene	13.083	13.067	5809672	0.000 CAL
Bromofluorobenzene (PID)	14.633	14.617	1476723	0.000 CAL

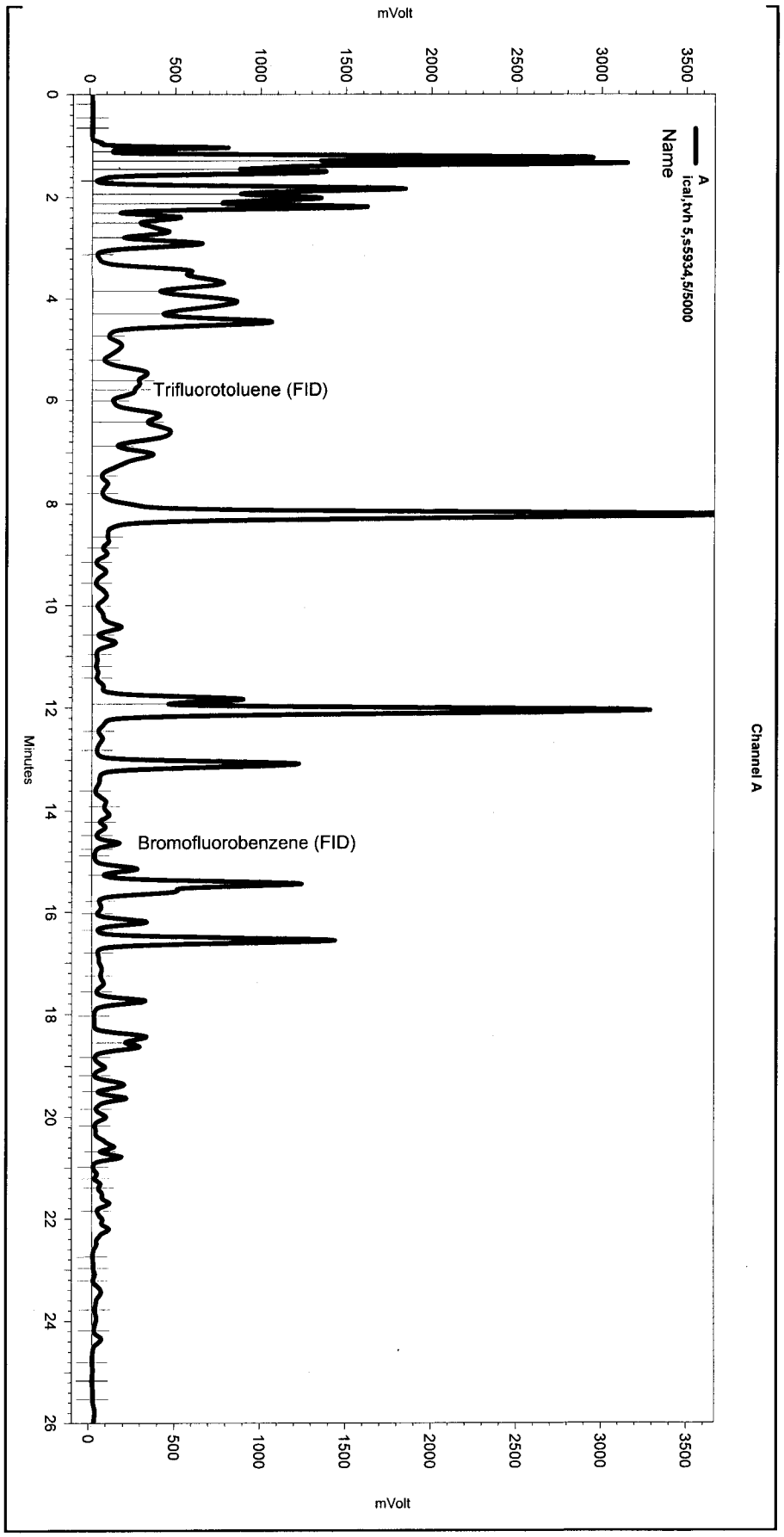
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.400	2.333	778988	0.000 CAL
Benzene	4.050	4.016	1222099	0.000 CAL
Trifluorotoluene (PID)	5.533	5.500	416468	0.000 CAL
Toluene	7.600	7.566	6219001	0.000 CAL
Ethylbenzene	11.099	11.083	1153785	0.000 CAL
m,p-Xylenes	11.433	11.416	4899972	0.000 CAL
o-Xylene	12.233	12.216	1682244	0.000 CAL
Bromofluorobenzene (PID)	13.066	13.049	432794	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**
Sample Name: **ical,tvh 5,s5934,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_023**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met

Software Version 3.1.7
Run Date: 6/16/2007 3:07:14 AM
Analysis Date: 6/18/2007 10:40:05 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\166_023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.793	0	0
Yes	Split Peak	14.742	0	0

: 00128

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**
Sample Name: **icv,tvh,s6393,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_025**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met

Software Version 3.1.7
Run Date: 6/16/2007 4:23:14 AM
Analysis Date: 6/18/2007 10:40:15 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.867	5.850	2072356	576.197
Bromofluorobenzene (FID)	14.633	14.617	1198245	536.763
GAS:6-8			24090608	0.000
GAS:6-10			47486360	10384.365
GAS:8-10			23395752	0.000
GAS:6-12			59157948	10446.845
GAS:7-12			45359316	10314.068
JP4:7-12			45359316	9829.777

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		2.050		0.000 BDL
Benzene	4.467	4.450	921296	163.746
Trifluorotoluene (PID)	5.867	5.850	777992	462.057
Toluene	8.217	8.200	4969725	901.652
Ethylbenzene	11.850	11.833	836468	177.574
m,p-Xylenes	12.050	12.033	4186362	730.921
o-Xylene	13.083	13.067	1358428	285.988
Bromofluorobenzene (PID)	14.633	14.617	1405862	397.436

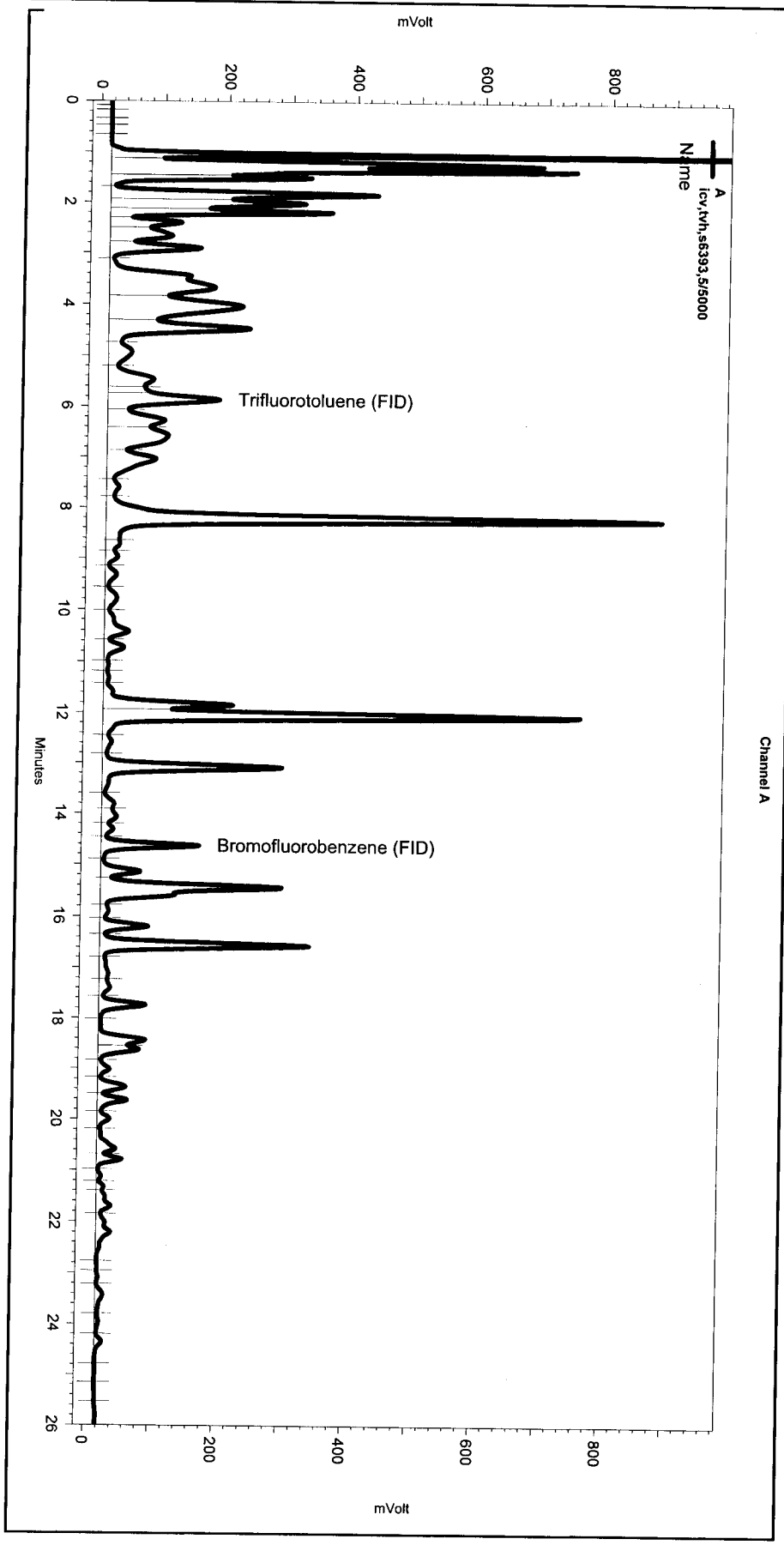
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.400	2.333	151996	313.347
Benzene	4.050	4.016	234333	173.885
Trifluorotoluene (PID)	5.533	5.500	234998	1172.718
Toluene	7.600	7.566	1445602	1116.383
Ethylbenzene	11.099	11.083	241364	217.751
m,p-Xylenes	11.416	11.416	1141149	846.033
o-Xylene	12.233	12.216	369445	335.698
Bromofluorobenzene (PID)	13.066	13.049	379597	947.596

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**
Sample Name: **icv,tvh,s6393,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_025**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe166.met

Software Version 3.1.7
Run Date: 6/16/2007 4:23:14 AM
Analysis Date: 6/18/2007 10:40:15 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\166_025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.736	0	0

00130

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 308079642001
Units : ng

Name : tvhBTXE055
Date : 24-FEB-2008 10:44
X Axis : R

Reviewer : LH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	055_005	308079642005	BTXE_1	24-FEB-2008 10:44	S7770 (1000X), S8275 (5000X)
L2	055_006	308079642006	MBTXE_2	24-FEB-2008 11:22	S7769 (1250X), S8275 (5000X)
L3	055_007	308079642007	MBTXE_3	24-FEB-2008 12:00	S7769 (500X), S8275 (5000X)
L4	055_008	308079642008	MBTXE_4	24-FEB-2008 12:37	S7769 (125X), S8275 (5000X)
L5	055_009	308079642009	MBTXE_5	24-FEB-2008 13:21	S7768 (1000X), S8275 (5000X)
L6	055_010	308079642010	MBTXE_6	24-FEB-2008 13:59	S7768 (500X), S8275 (5000X)
L7	055_011	308079642011	MBTXE_7	24-FEB-2008 14:37	S7768 (250X), S8275 (5000X)
L8	055_012	308079642012	MTBE_7	24-FEB-2008 15:15	S7767 (500X), S8275 (5000X)

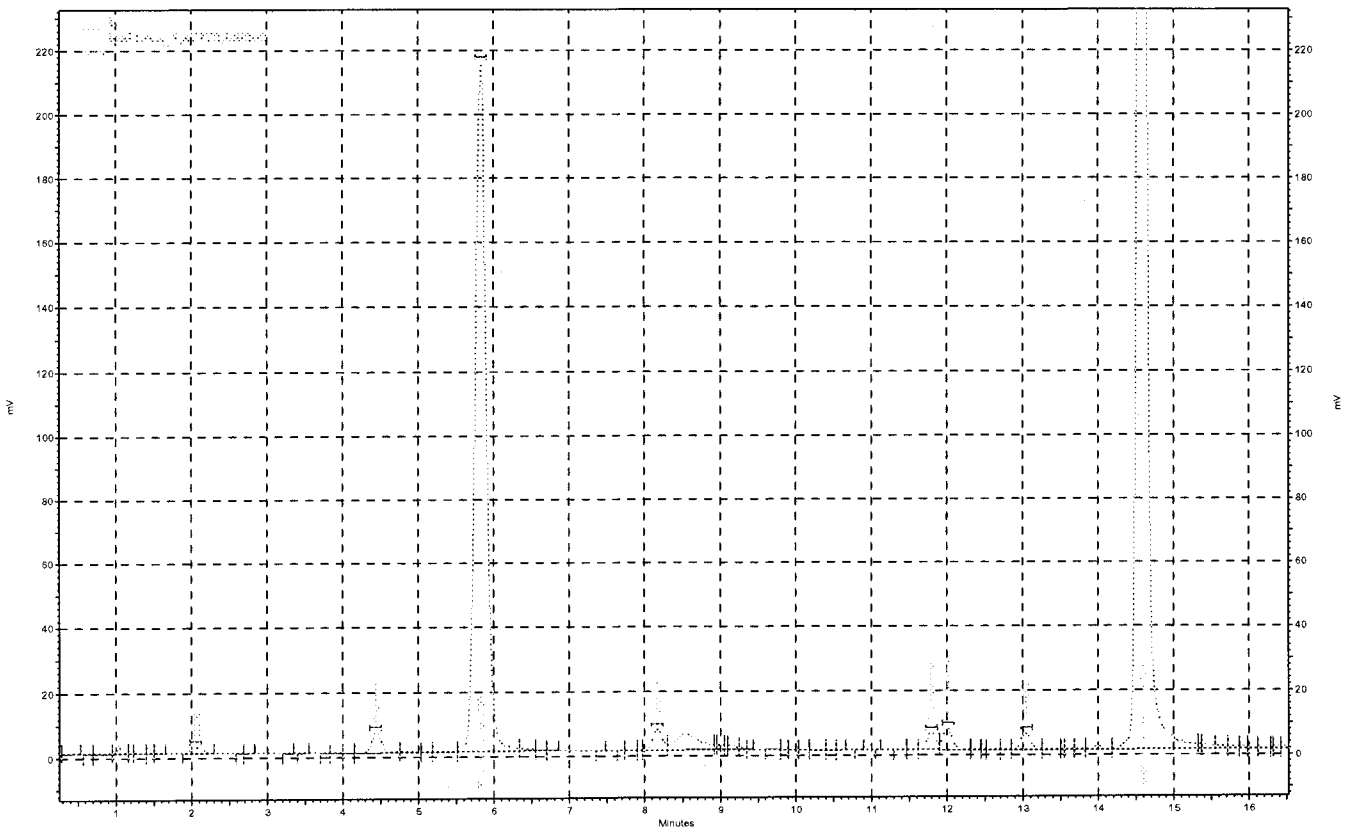
Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3717.3	3557.5	3599.1	3511.1	3726.8	3635.7	3796.3	3565.2	AVRG		2.75E-4		3638.6	3	0.995	20	
Bromofluorobenzene (FID)	A	2198.7	2097.3	2130.9	2126.8	2431.8	2264.4	2423.6	2130.4	AVRG		4.49E-4		2225.5	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	2	450.0	-2	450.0	-1	450.0	-4	450.0	2	450.0	0	450.0	4	450.0	-2
Bromofluorobenzene (FID)	A	450.0	-1	450.0	-6	450.0	-4	450.0	-4	450.0	9	450.0	2	450.0	9	450.0	-4

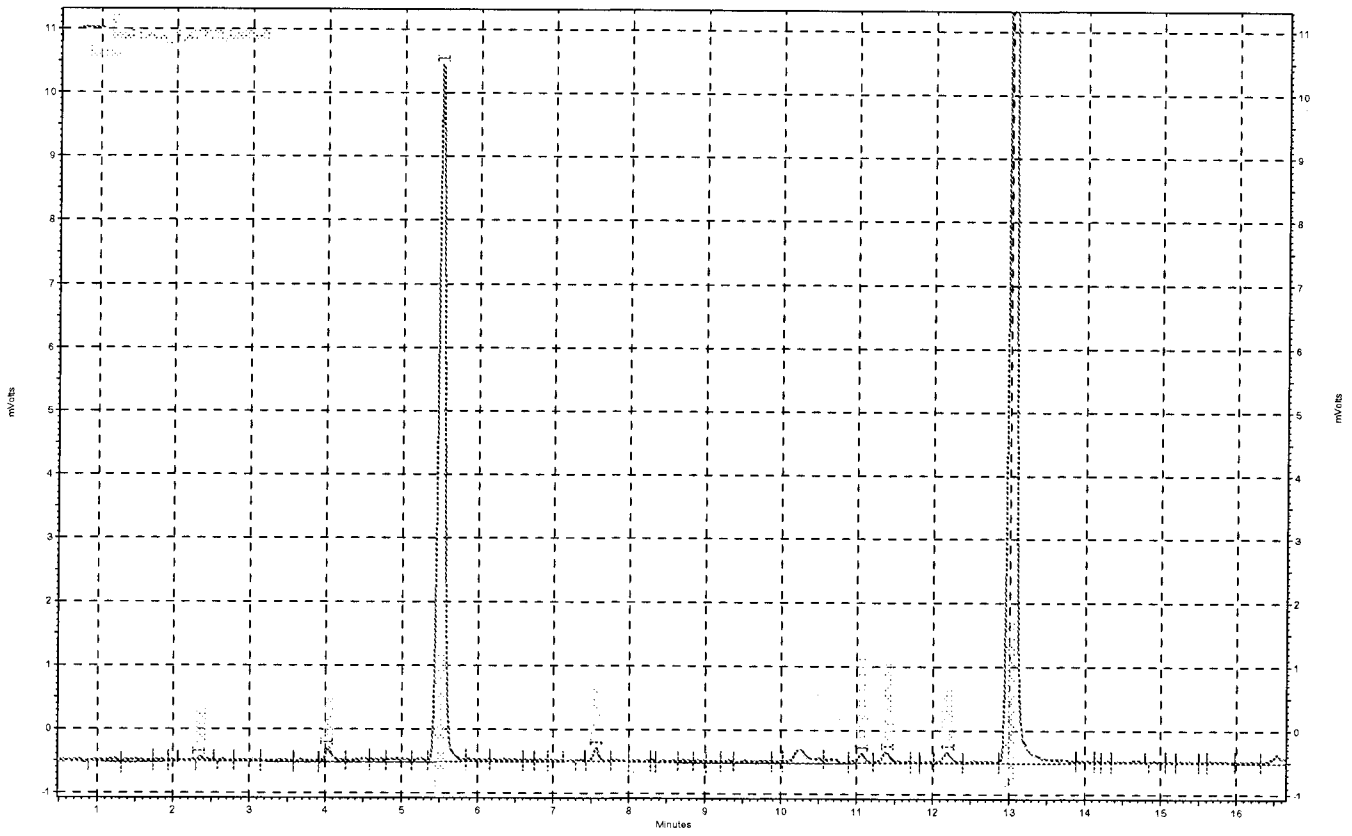
MRC 02/25/08 : MTBE Fails RSD on C; only B will be used to report MTBE.

Analyst: MRC Date: 02/25/08 Reviewer: LH Date: 02/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_005, B



\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_005, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq
Sample Name: **ical,btxe_1,s7770,5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_005
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 10:44:49 AM
Analysis Date: 2/25/2008 12:03:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.833	5.833	1672766	450.000 CAL
Bromofluorobenzene (FID)	14.583	14.600	989403	450.000 CAL
GAS:6-8			84253	0.000 CAL
GAS:6-10			239661	0.000 CAL
GAS:8-10			155408	0.000 CAL
GAS:6-12			308619	0.000 CAL
GAS:7-12			285478	0.000 CAL
JP4:7-12			285478	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.083	2.050	20909	0.000 CAL
Benzene	4.450	4.433	58884	2.500 CAL
Trifluorotoluene (PID)	5.833	5.833	2225032	450.000 CAL
Toluene	8.167	8.167	56160	2.500 CAL
Ethylbenzene	11.800	11.800	42606	2.500 CAL
m,p-Xylenes	12.000	12.017	59574	2.500 CAL
o-Xylene	13.033	13.050	45488	2.500 CAL
Bromofluorobenzene (PID)	14.583	14.600	4566562	450.000 CAL

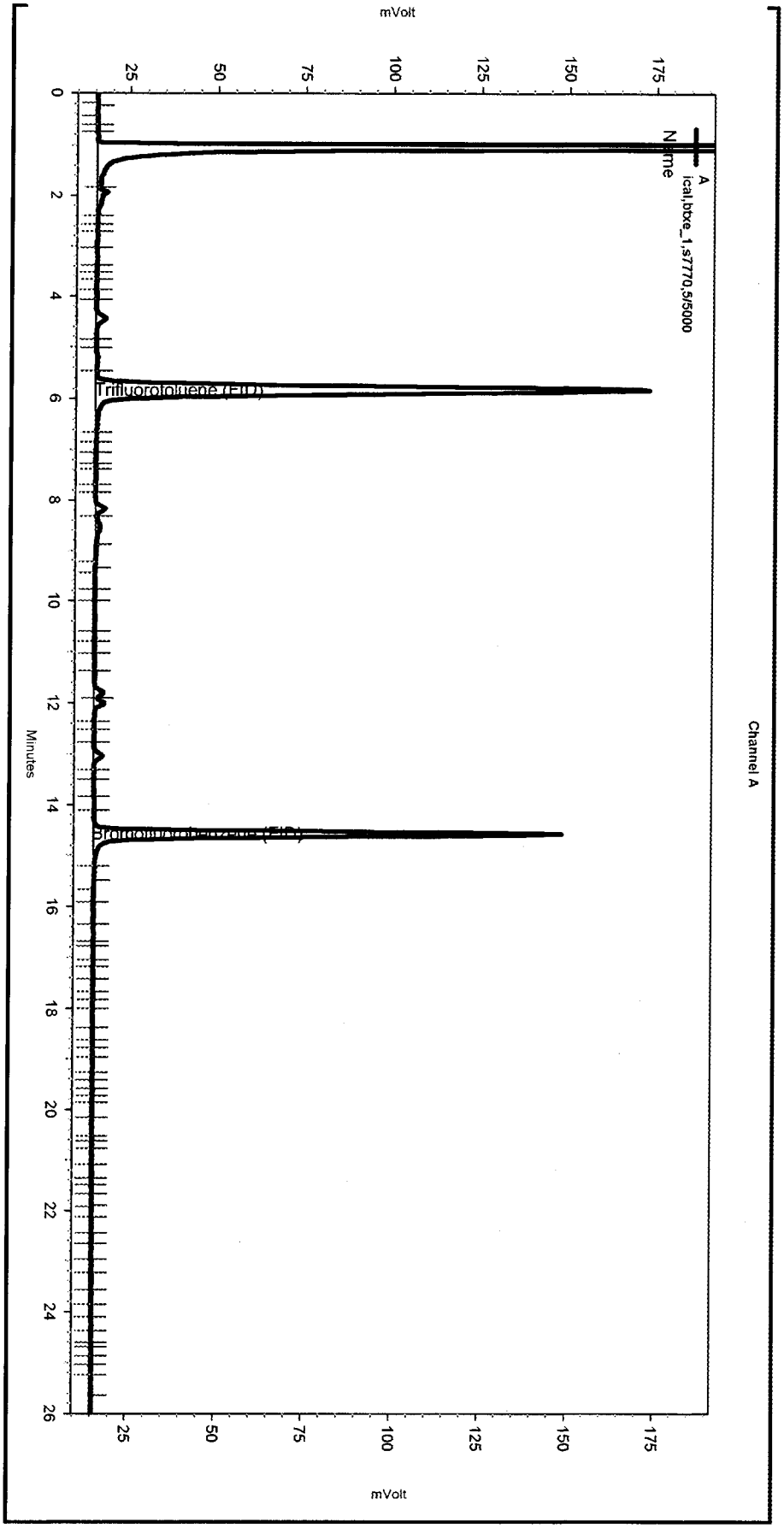
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.367	2.333	411	0.000 CAL
Benzene	4.033	4.016	1540	2.500 CAL
Trifluorotoluene (PID)	5.500	5.500	67593	450.000 CAL
Toluene	7.566	7.566	1158	2.500 CAL
Ethylbenzene	11.049	11.066	1091	2.500 CAL
m,p-Xylenes	11.399	11.399	1624	2.500 CAL
o-Xylene	12.183	12.199	1197	2.500 CAL
Bromofluorobenzene (PID)	13.016	13.032	132047	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,btxe_1,s7770,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_005**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 10:44:49 AM
Analysis Date: 2/25/2008 12:03:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq
Sample Name: **ical,mbtxe_2,s7769,4/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_006
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 11:22:30 AM
Analysis Date: 2/25/2008 12:03:30 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.833	5.833	1600870	450.000 CAL
Bromofluorobenzene (FID)	14.583	14.600	943792	450.000 CAL
GAS:6-8			175949	0.000 CAL
GAS:6-10			648921	0.000 CAL
GAS:8-10			472972	0.000 CAL
GAS:6-12			749127	0.000 CAL
GAS:7-12			708556	0.000 CAL
JP4:7-12			708556	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.067	2.050	73087	10.000 CAL
Benzene	4.450	4.433	210180	10.000 CAL
Trifluorotoluene (PID)	5.833	5.833	2154024	450.000 CAL
Toluene	8.167	8.167	199329	10.000 CAL
Ethylbenzene	11.800	11.800	165937	10.000 CAL
m,p-Xylenes	12.000	12.017	212130	10.000 CAL
o-Xylene	13.033	13.050	167276	10.000 CAL
Bromofluorobenzene (PID)	14.583	14.600	4250232	450.000 CAL

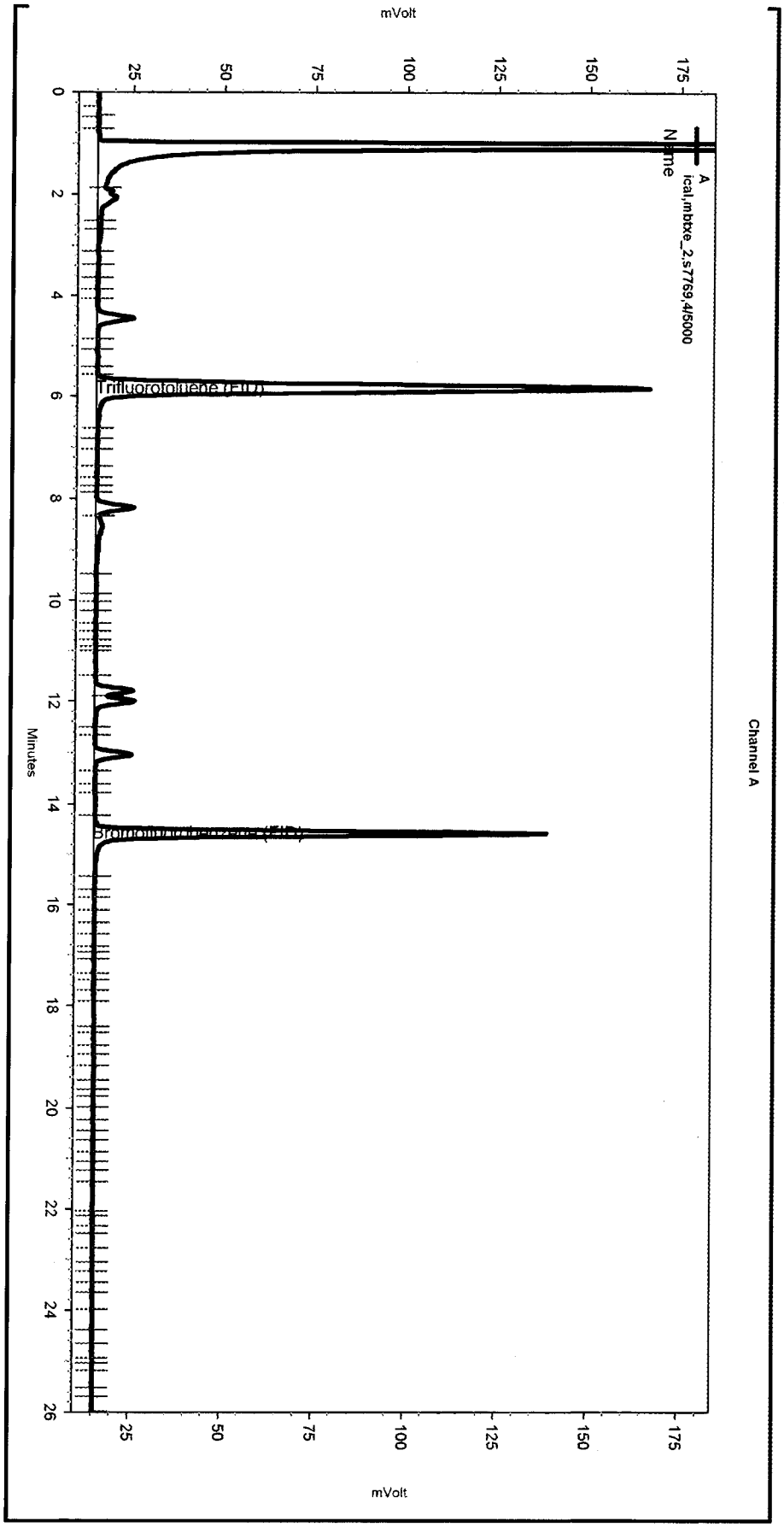
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.367	2.333	1644	10.000 CAL
Benzene	4.033	4.016	4993	10.000 CAL
Trifluorotoluene (PID)	5.500	5.500	63779	450.000 CAL
Toluene	7.566	7.566	4940	10.000 CAL
Ethylbenzene	11.049	11.066	4352	10.000 CAL
m,p-Xylenes	11.383	11.399	5265	10.000 CAL
o-Xylene	12.183	12.199	4274	10.000 CAL
Bromofluorobenzene (PID)	13.016	13.032	123324	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mbtxe_2,s7769,4/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_006**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 11:22:30 AM
Analysis Date: 2/25/2008 12:03:30 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



< General Method Parameters >

No items selected for this section

< A >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

00137

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mbtxe_3,s7769,10/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_007**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 12:00:10 PM
Analysis Date: 2/25/2008 12:03:34 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.833	5.833	1619617	450.000 CAL
Bromofluorobenzene (FID)	14.583	14.600	958891	450.000 CAL
GAS:6-8			309918	0.000 CAL
GAS:6-10			1249493	0.000 CAL
GAS:8-10			939575	0.000 CAL
GAS:6-12			1333386	0.000 CAL
GAS:7-12			1292620	0.000 CAL
JP4:7-12			1292620	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.067	2.050	174170	25.000 CAL
Benzene	4.450	4.433	518614	25.000 CAL
Trifluorotoluene (PID)	5.833	5.833	2188594	450.000 CAL
Toluene	8.167	8.167	483619	25.000 CAL
Ethylbenzene	11.800	11.800	404675	25.000 CAL
m,p-Xylenes	12.000	12.017	517344	25.000 CAL
o-Xylene	13.033	13.050	403217	25.000 CAL
Bromofluorobenzene (PID)	14.583	14.600	4405137	450.000 CAL

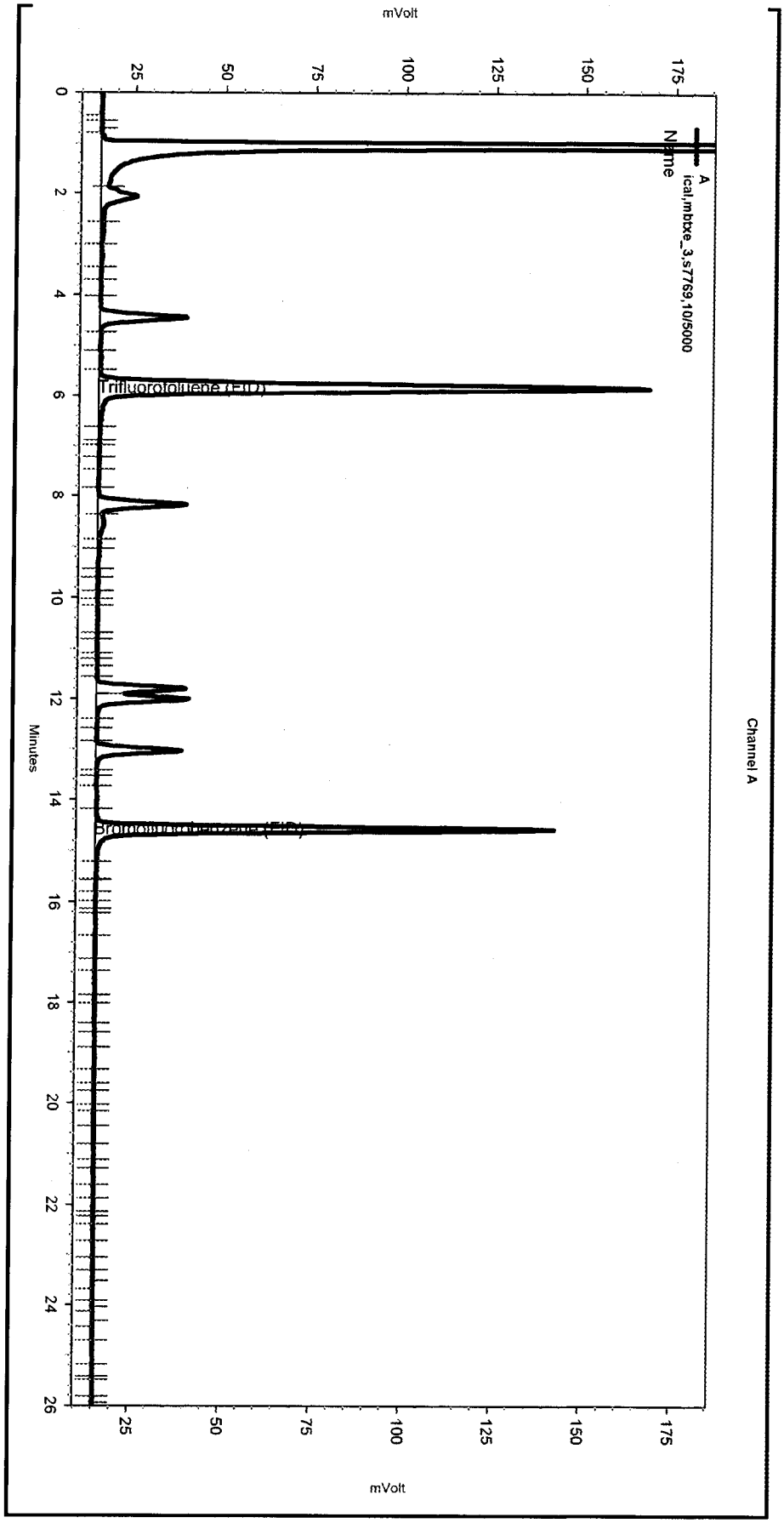
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	4355	25.000 CAL
Benzene	4.033	4.016	13466	25.000 CAL
Trifluorotoluene (PID)	5.500	5.500	65421	450.000 CAL
Toluene	7.566	7.566	12448	25.000 CAL
Ethylbenzene	11.049	11.066	10592	25.000 CAL
m,p-Xylenes	11.383	11.399	13121	25.000 CAL
o-Xylene	12.183	12.199	10270	25.000 CAL
Bromofluorobenzene (PID)	13.016	13.032	125329	450.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq
Sample Name: **ical,mbtxe_3,s7769,10/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_007
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 12:00:10 PM
Analysis Date: 2/25/2008 12:03:34 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mbtxe_4,s7769,40/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_008**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 12:37:49 PM
Analysis Date: 2/25/2008 12:03:38 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.833	5.833	1579999	450.000 CAL
Bromofluorobenzene (FID)	14.583	14.600	957050	450.000 CAL
GAS:6-8			1078893	0.000 CAL
GAS:6-10			4358879	0.000 CAL
GAS:8-10			3279986	0.000 CAL
GAS:6-12			4438269	0.000 CAL
GAS:7-12			4287391	0.000 CAL
JP4:7-12			4287391	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.067	2.050	707920	100.000 CAL
Benzene	4.450	4.433	2046290	100.000 CAL
Trifluorotoluene (PID)	5.833	5.833	2196112	450.000 CAL
Toluene	8.167	8.167	1873171	100.000 CAL
Ethylbenzene	11.800	11.800	1590456	100.000 CAL
m,p-Xylenes	12.000	12.017	2014154	100.000 CAL
o-Xylene	13.033	13.050	1611348	100.000 CAL
Bromofluorobenzene (PID)	14.583	14.600	4497205	450.000 CAL

Channel C: RTX-1 PID

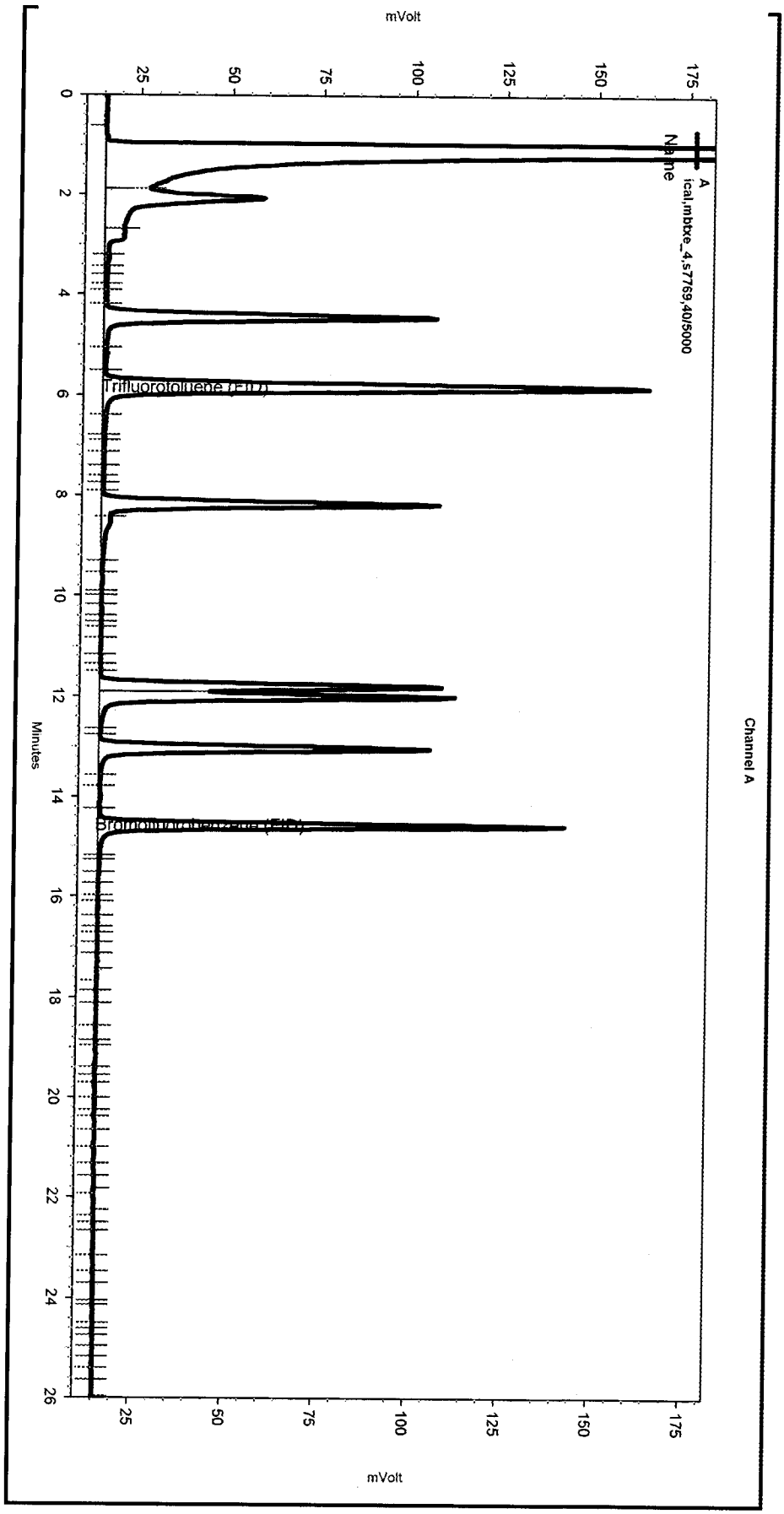
C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	19120	100.000 CAL
Benzene	4.033	4.016	58622	100.000 CAL
Trifluorotoluene (PID)	5.500	5.500	64957	450.000 CAL
Toluene	7.550	7.566	54640	100.000 CAL
Ethylbenzene	11.049	11.066	46133	100.000 CAL
m,p-Xylenes	11.383	11.399	56403	100.000 CAL
o-Xylene	12.183	12.199	45411	100.000 CAL
Bromofluorobenzene (PID)	13.016	13.032	128404	450.000 CAL

: 0010

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq
Sample Name: **ical,mbtxe_4,s7769,40/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_008
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 12:37:49 PM
Analysis Date: 2/25/2008 12:03:38 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mbtxe_5,s7768,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_009**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 1:21:19 PM
Analysis Date: 2/25/2008 12:03:43 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.817	5.833	1677054	450.000 CAL
Bromofluorobenzene (FID)	14.583	14.600	1094322	450.000 CAL
GAS:6-8			4116306	0.000 CAL
GAS:6-10			20384986	0.000 CAL
GAS:8-10			16268680	0.000 CAL
GAS:6-12			20547808	0.000 CAL
GAS:7-12			16476252	0.000 CAL
JP4:7-12			16476252	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.050	2.050	1838810	500.000 CAL
Benzene	4.417	4.433	10405066	500.000 CAL
Trifluorotoluene (PID)	5.817	5.833	2360088	450.000 CAL
Toluene	8.167	8.167	10073356	500.000 CAL
Ethylbenzene	11.800	11.800	8539111	500.000 CAL
m,p-Xylenes	12.000	12.017	10813384	500.000 CAL
o-Xylene	13.033	13.050	8661339	500.000 CAL
Bromofluorobenzene (PID)	14.583	14.600	5221110	450.000 CAL

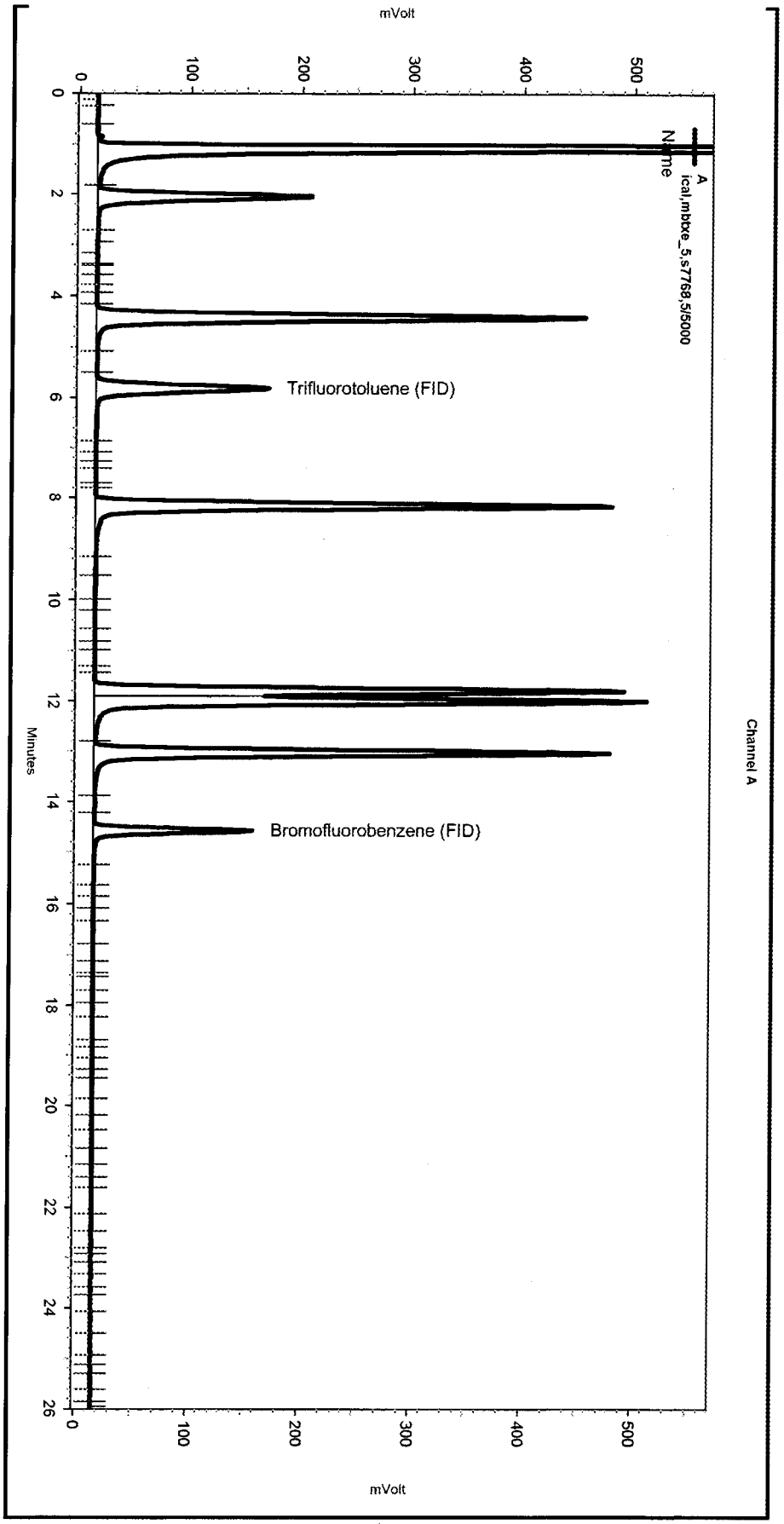
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.333	2.333	39901	500.000 CAL
Benzene	4.000	4.016	325709	500.000 CAL
Trifluorotoluene (PID)	5.483	5.500	70273	450.000 CAL
Toluene	7.550	7.566	308492	500.000 CAL
Ethylbenzene	11.049	11.066	266830	500.000 CAL
m,p-Xylenes	11.383	11.399	325619	500.000 CAL
o-Xylene	12.183	12.199	266574	500.000 CAL
Bromofluorobenzene (PID)	13.016	13.032	152738	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mbtxe_5,s7768,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_009**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 1:21:19 PM
Analysis Date: 2/25/2008 12:03:43 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq
Sample Name: **ical,mbtxe_6,s7768,10/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_010
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 1:59:57 PM
Analysis Date: 2/25/2008 12:03:47 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.833	5.833	1636056	450.000 CAL
Bromofluorobenzene (FID)	14.583	14.600	1019000	450.000 CAL
GAS:6-8			7919448	0.000 CAL
GAS:6-10			39411088	0.000 CAL
GAS:8-10			31491636	0.000 CAL
GAS:6-12			39543648	0.000 CAL
GAS:7-12			39526312	0.000 CAL
JP4:7-12			39526312	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.067	2.050	7000546	1000.000 CAL
Benzene	4.450	4.433	21025289	1000.000 CAL
Trifluorotoluene (PID)	5.833	5.833	2388146	450.000 CAL
Toluene	8.167	8.167	19949701	1000.000 CAL
Ethylbenzene	11.800	11.800	16890927	1000.000 CAL
m,p-Xylenes	12.000	12.017	21151424	1000.000 CAL
o-Xylene	13.033	13.050	16824694	1000.000 CAL
Bromofluorobenzene (PID)	14.583	14.600	4873916	450.000 CAL

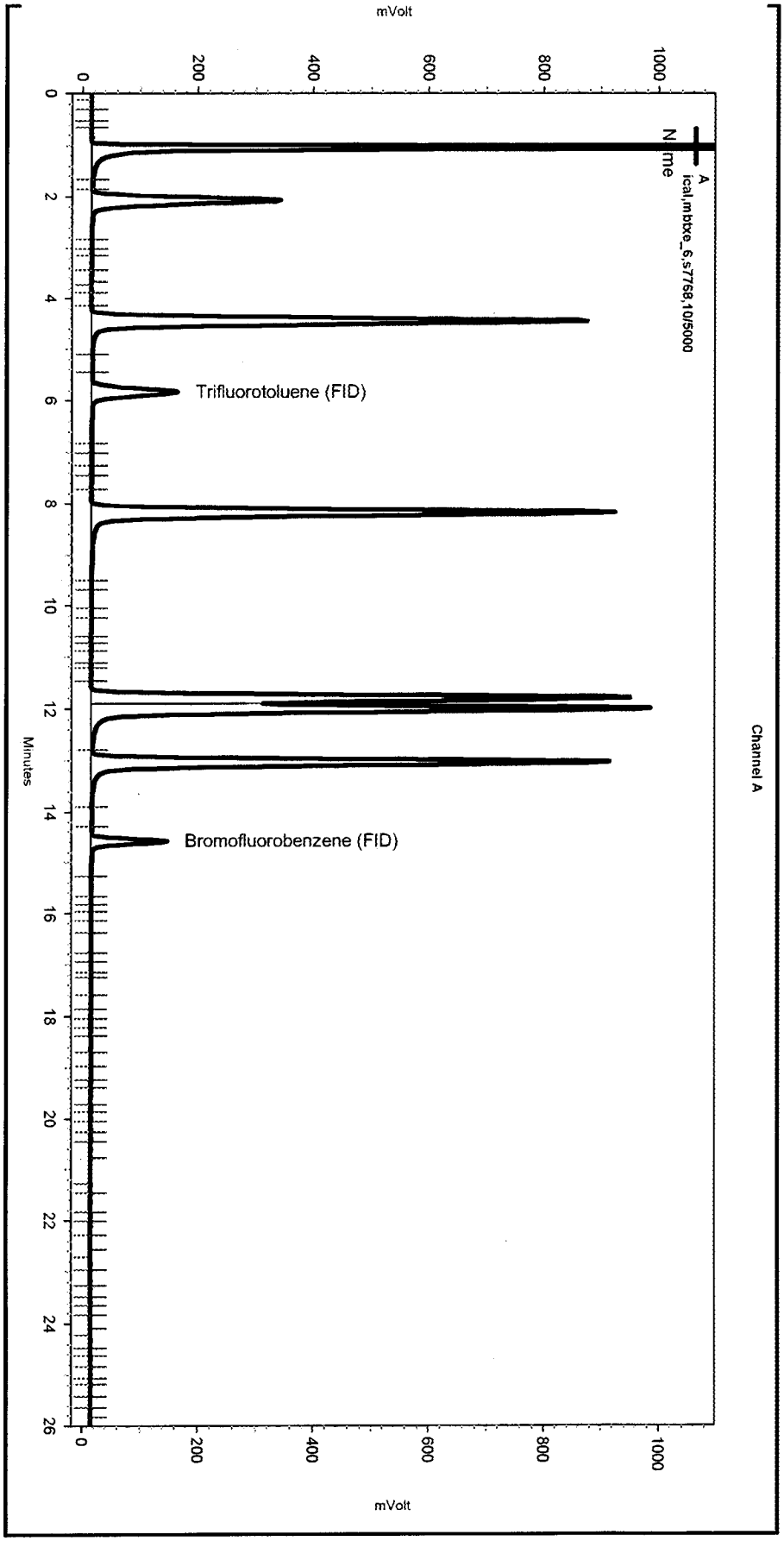
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	219837	1000.000 CAL
Benzene	4.033	4.016	657443	1000.000 CAL
Trifluorotoluene (PID)	5.500	5.500	69258	450.000 CAL
Toluene	7.550	7.566	624188	1000.000 CAL
Ethylbenzene	11.049	11.066	545362	1000.000 CAL
m,p-Xylenes	11.383	11.399	658120	1000.000 CAL
o-Xylene	12.183	12.199	535918	1000.000 CAL
Bromofluorobenzene (PID)	13.016	13.032	144967	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mbtxe_6,s7768,10/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_010**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 1:59:57 PM
Analysis Date: 2/25/2008 12:03:47 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mbtxe_7,s7768,20/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_011**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 2:37:34 PM
Analysis Date: 2/25/2008 12:03:52 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.833	5.833	1708339	450.000 CAL
Bromofluorobenzene (FID)	14.583	14.600	1090615	450.000 CAL
GAS:6-8			15685019	0.000 CAL
GAS:6-10			78060056	0.000 CAL
GAS:8-10			62375040	0.000 CAL
GAS:6-12			78254528	0.000 CAL
GAS:7-12			78211648	0.000 CAL
JP4:7-12			78211648	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.067	2.050	13863241	2000.000 CAL
Benzene	4.450	4.433	41436193	2000.000 CAL
Trifluorotoluene (PID)	5.833	5.833	2479770	450.000 CAL
Toluene	8.167	8.167	39129006	2000.000 CAL
Ethylbenzene	11.800	11.800	32842034	2000.000 CAL
m,p-Xylenes	12.000	12.017	41334109	2000.000 CAL
o-Xylene	13.033	13.050	32914487	2000.000 CAL
Bromofluorobenzene (PID)	14.583	14.600	5037405	450.000 CAL

Channel C: RTX-1 PID

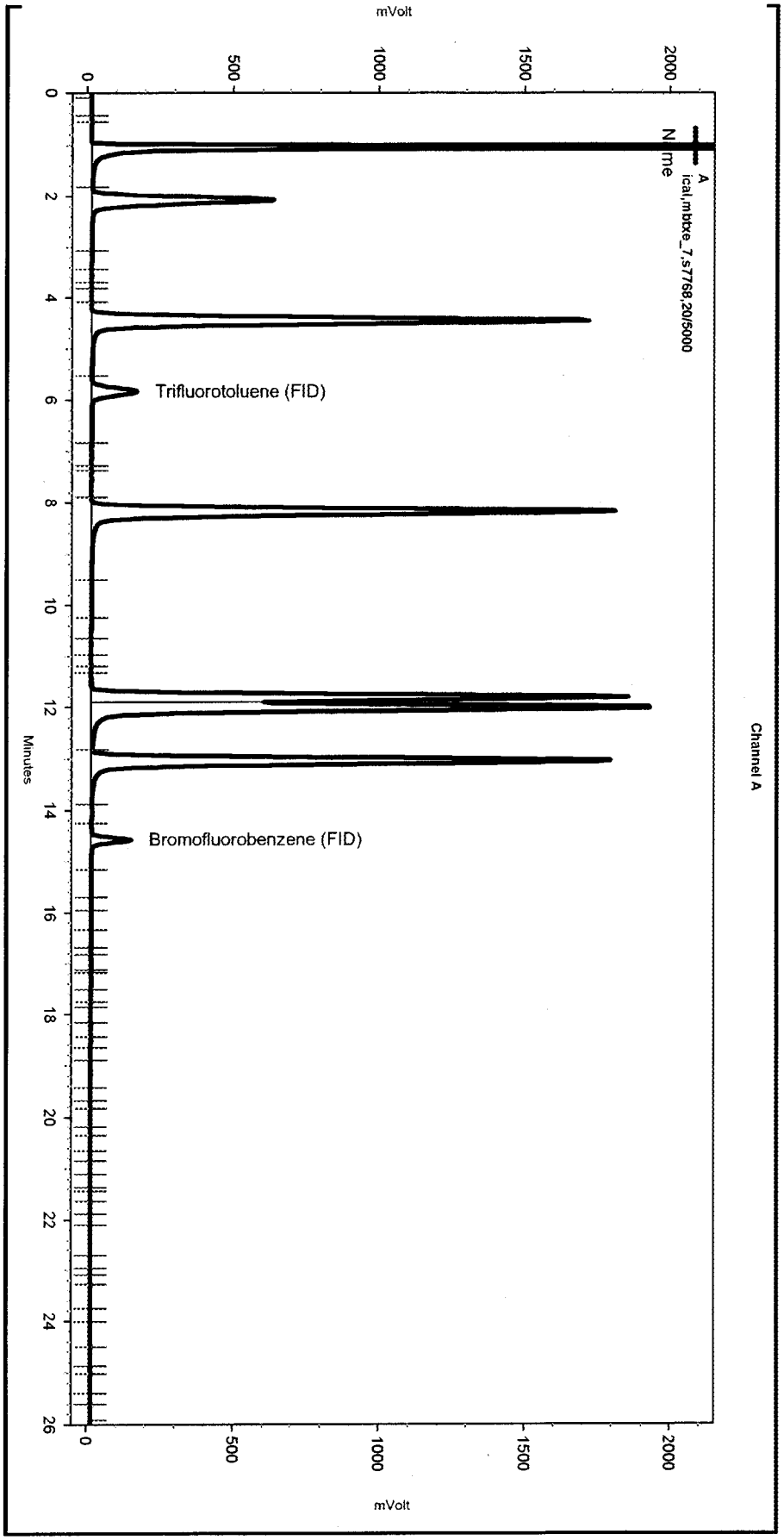
C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	446315	2000.000 CAL
Benzene	4.033	4.016	1314960	2000.000 CAL
Trifluorotoluene (PID)	5.500	5.500	72440	450.000 CAL
Toluene	7.566	7.566	1253579	2000.000 CAL
Ethylbenzene	11.066	11.066	1099797	2000.000 CAL
m,p-Xylenes	11.399	11.399	1336452	2000.000 CAL
o-Xylene	12.199	12.199	1093993	2000.000 CAL
Bromofluorobenzene (PID)	13.016	13.032	151330	450.000 CAL

00146

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mbtxe_7,s7768,20/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_011**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1, Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 2:37:34 PM
Analysis Date: 2/25/2008 12:03:52 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

: 00147

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mtbe_7,s7767,10/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_012**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 3:15:11 PM
Analysis Date: 2/25/2008 12:03:56 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.833	5.833	1604325	450.000 CAL
Bromofluorobenzene (FID)	14.583	14.600	958697	450.000 CAL
GAS:6-8			74467	0.000 CAL
GAS:6-10			280525	0.000 CAL
GAS:8-10			206058	0.000 CAL
GAS:6-12			375958	0.000 CAL
GAS:7-12			342111	0.000 CAL
JP4:7-12			342111	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.067	2.050	35508407	5000.000 CAL
Benzene	4.433	4.433	39864	0.000 CAL
Trifluorotoluene (PID)	5.833	5.833	2262331	450.000 CAL
Toluene	8.167	8.167	109869	0.000 CAL
Ethylbenzene	11.800	11.800	20578	0.000 CAL
m,p-Xylenes	12.000	12.017	33740	0.000 CAL
o-Xylene	13.033	13.050	22504	0.000 CAL
Bromofluorobenzene (PID)	14.583	14.600	4441164	450.000 CAL

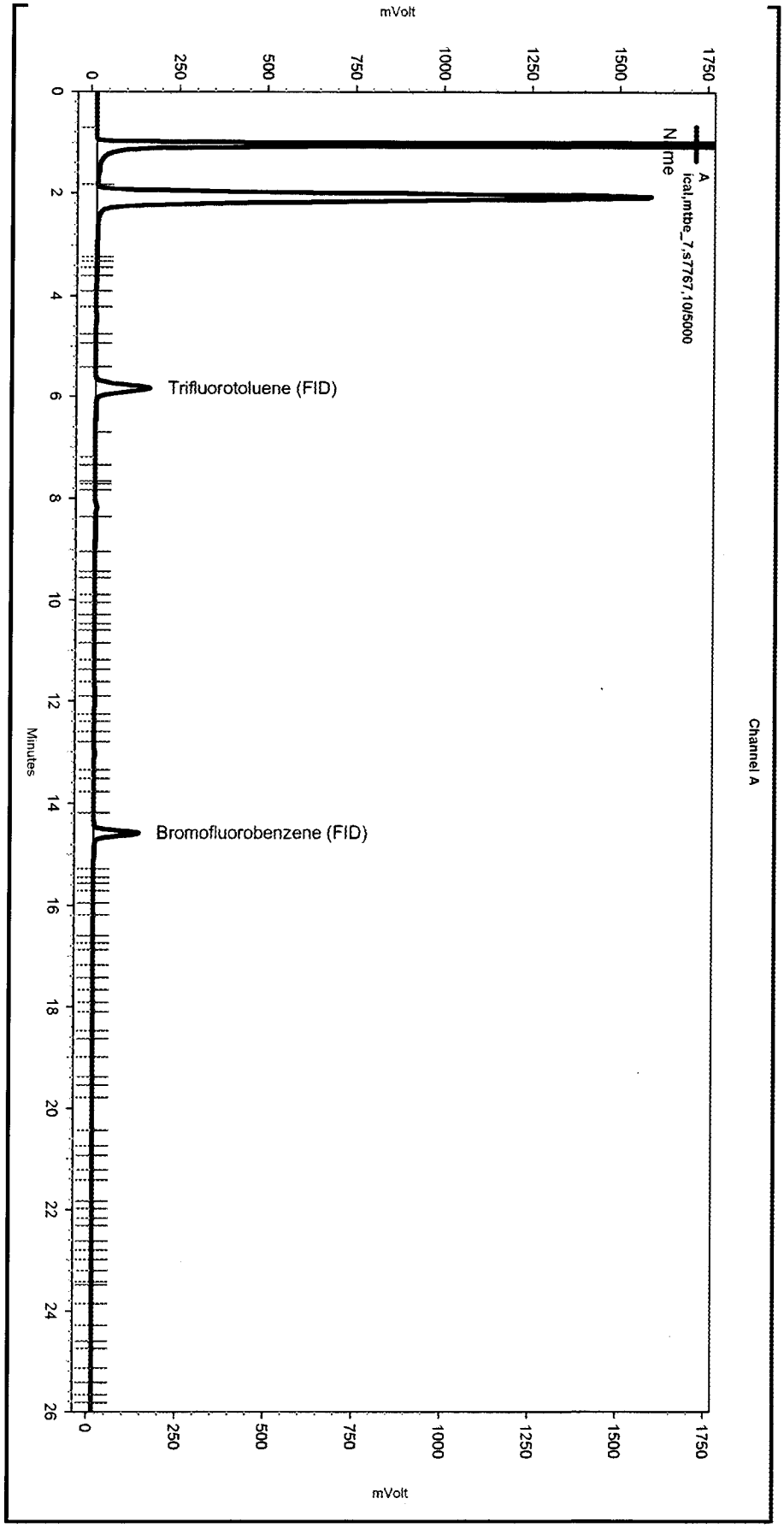
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	1166896	5000.000 CAL
Benzene	4.033	4.016	261	0.000 CAL
Trifluorotoluene (PID)	5.516	5.500	68948	450.000 CAL
Toluene	7.566	7.566	1785	0.000 CAL
Ethylbenzene	11.033	11.066	629	0.000 CAL
m,p-Xylenes	11.366	11.399	553	0.000 CAL
o-Xylene	12.166	12.199	748	0.000 CAL
Bromofluorobenzene (PID)	13.016	13.032	133841	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **ical,mtbe_7,s7767,10/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_012**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 3:15:11 PM
Analysis Date: 2/25/2008 12:03:56 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **icv,mbtxe,s8465,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_015**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 5:08:14 PM
Analysis Date: 2/25/2008 1:25:29 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.833	5.833	1564396	429.942
Bromofluorobenzene (FID)	14.583	14.600	943959	424.158
GAS:6-8			966978	0.000
GAS:6-10			5299732	1158.951
GAS:8-10			4332754	0.000
GAS:6-12			5402634	954.064
GAS:7-12			5362662	1219.394
JP4:7-12			5362662	1162.138

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.067	2.050	619479	94.133
Benzene	4.450	4.433	2145999	101.272
Trifluorotoluene (PID)	5.833	5.833	2164064	426.788
Toluene	8.183	8.167	1971307	98.471
Ethylbenzene	11.800	11.800	1623144	97.849
m,p-Xylenes	12.000	12.017	4330234	202.994
o-Xylene	13.033	13.050	1692780	100.616
Bromofluorobenzene (PID)	14.583	14.600	4414214	426.120

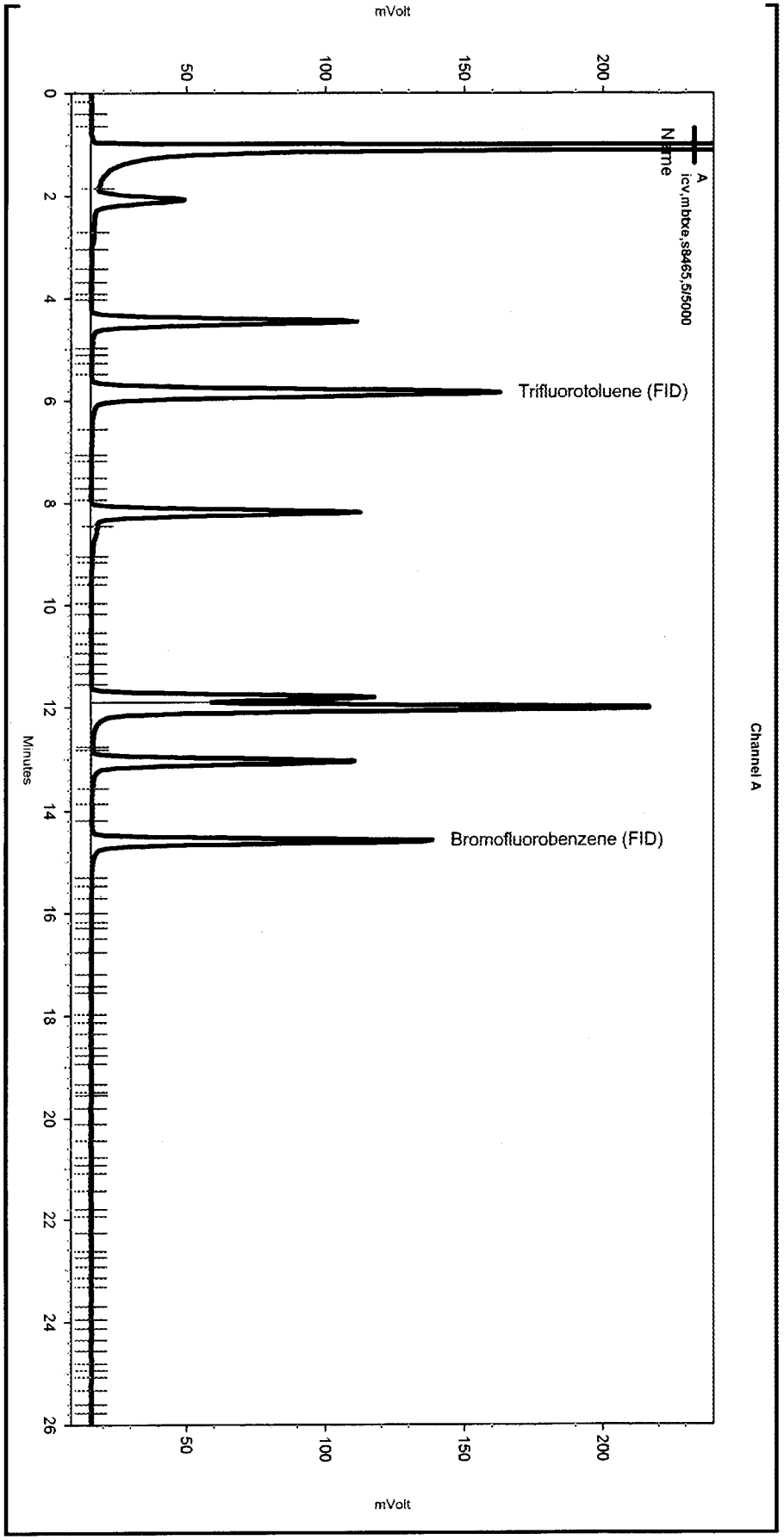
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	17045	92.782
Benzene	4.033	4.016	66232	110.216
Trifluorotoluene (PID)	5.516	5.500	67397	447.103
Toluene	7.566	7.566	61038	110.419
Ethylbenzene	11.049	11.066	53259	110.120
m,p-Xylenes	11.399	11.399	133036	219.503
o-Xylene	12.183	12.199	51897	107.251
Bromofluorobenzene (PID)	13.032	13.032	133529	440.214

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\055.seq**
Sample Name: **icv,mbtxe,s8465,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\055_015**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 2/24/2008 5:08:14 PM
Analysis Date: 2/25/2008 1:25:29 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

—< A >—

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\055_015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 328028223001
Units : ng

Name : GC07 MBTXE/SURR 019
Date : 19-JAN-2008 15:34
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	019_003	328028223003	BTXE_1	19-JAN-2008 15:34	S7770 (1000X), S7874 (5000X)
L2	019_004	328028223004	MBTXE_2	19-JAN-2008 16:10	S7769 (1250X), S7874 (5000X)
L3	019_005	328028223005	MBTXE_3	19-JAN-2008 16:46	S7769 (500X), S7874 (5000X)
L4	019_006	328028223006	MBTXE_4	19-JAN-2008 17:22	S7769 (125X), S7874 (5000X)
L5	019_007	328028223007	MBTXE_5	19-JAN-2008 17:58	S7768 (1000X), S7874 (5000X)
L6	019_008	328028223008	MBTXE_6	19-JAN-2008 18:34	S7768 (500X), S7874 (5000X)
L7	019_009	328028223009	MBTXE_7	19-JAN-2008 19:09	S7768 (250X), S7874 (5000X)
L8	019_010	328028223010	MTBE_7	19-JAN-2008 19:45	S7767 (500X), S7874 (5000X)

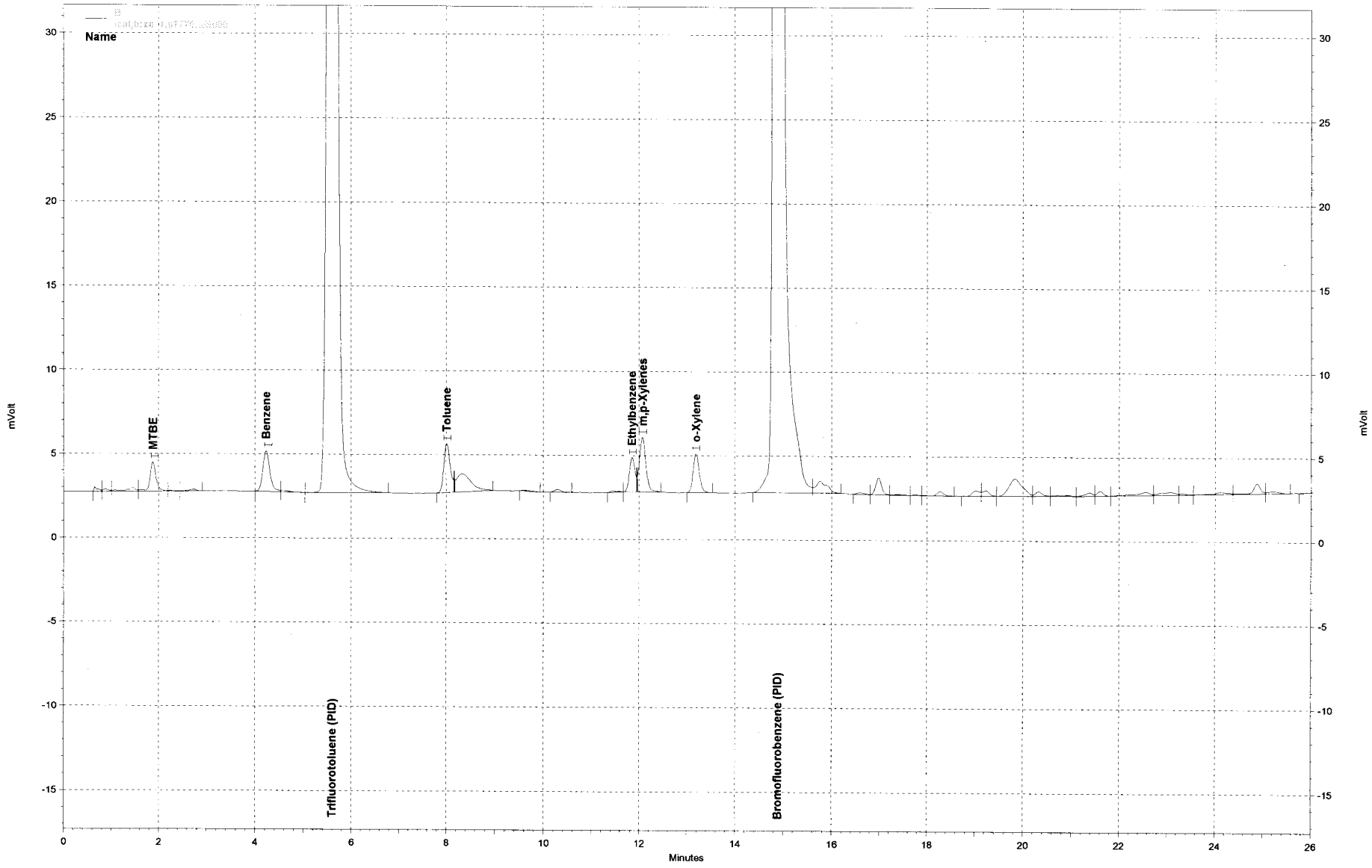
Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2373.6	2349.2	2369.6	2370.6	2326.7	2556.5	2410.0	2318.5	AVRG		4.19E-4		2384.3	3	0.995	20	
Bromofluorobenzene (FID)	A	1918.3	1961.0	1916.0	1938.8	1908.2	2054.9	1954.9	1889.1	AVRG		5.15E-4		1942.6	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	0	450.0	-1	450.0	-1	450.0	-1	450.0	-2	450.0	7	450.0	1	450.0	-3
Bromofluorobenzene (FID)	A	450.0	-1	450.0	1	450.0	-1	450.0	0	450.0	-2	450.0	6	450.0	1	450.0	-3

Analyst: MJM Date: 01/21/08 Reviewer: EAH Date: 01/21/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

328028223001



\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_003, B

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,btxe_1,s7770,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_003**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 3:34:54 PM
Analysis Date: 1/21/2008 10:52:53 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1068126	450.000 CAL
Bromofluorobenzene (FID)	14.883	14.900	863217	450.000 CAL
GAS:6-8			36512	0.000 CAL
GAS:6-10			143863	0.000 CAL
GAS:8-10			107351	0.000 CAL
GAS:6-12			237818	0.000 CAL
GAS:7-12			232300	0.000 CAL
JP4:7-12			232300	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.917	15752	0.000 CAL
Benzene	4.233	4.283	24969	2.500 CAL
Trifluorotoluene (PID)	5.600	5.617	1383666	450.000 CAL
Toluene	8.017	8.033	28325	2.500 CAL
Ethylbenzene	11.850	11.867	17498	2.500 CAL
m,p-Xylenes	12.083	12.083	29828	2.500 CAL
o-Xylene	13.200	13.200	21338	2.500 CAL
Bromofluorobenzene (PID)	14.883	14.900	3639835	450.000 CAL

Channel C: RTX-1 PID

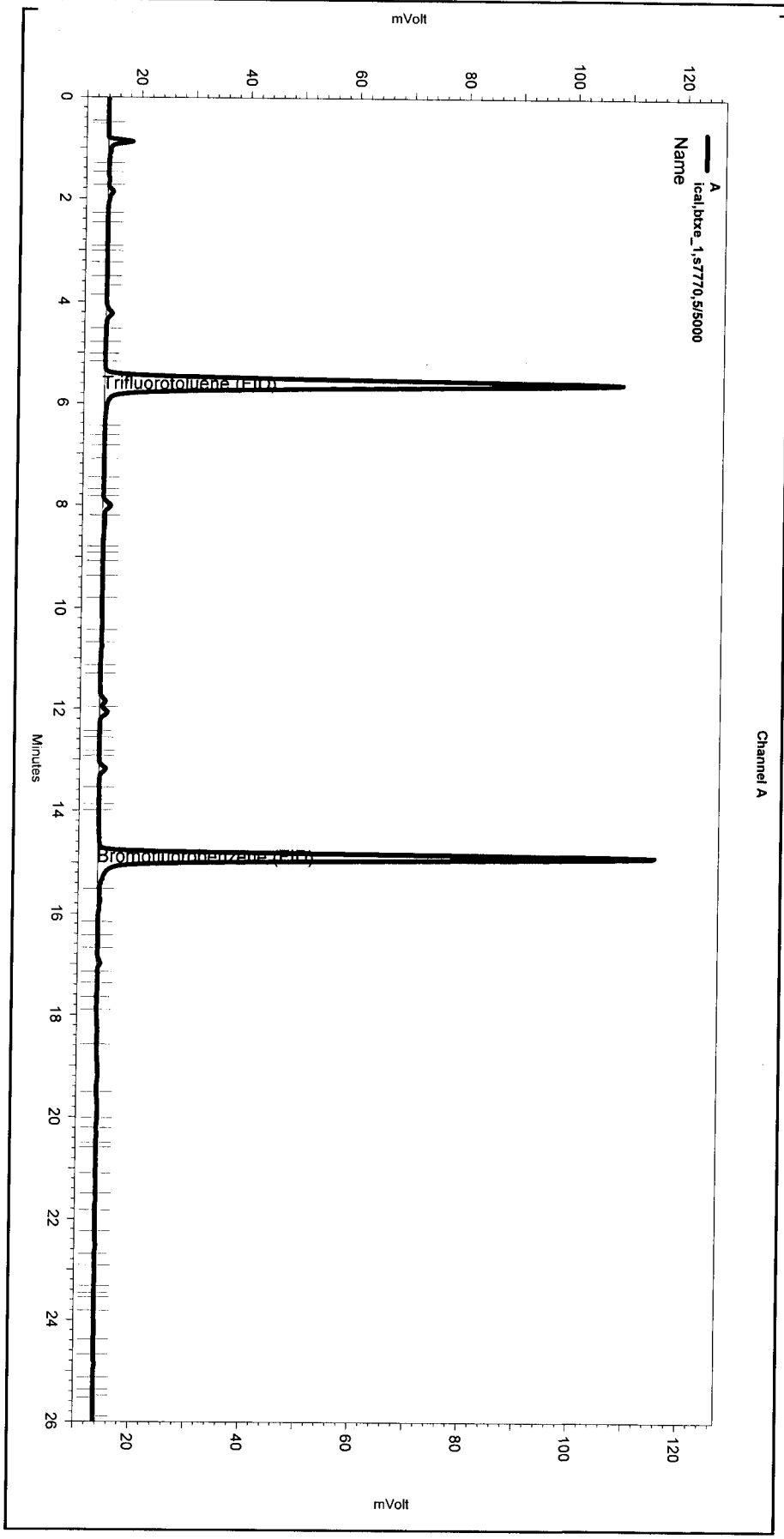
C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.800	5044	0.000 CAL
Benzene	3.183	3.216	7141	2.500 CAL
Trifluorotoluene (PID)	4.516	4.533	607761	450.000 CAL
Toluene	6.533	6.533	10098	2.500 CAL
Ethylbenzene	10.133	10.149	6033	2.500 CAL
m,p-Xylenes	10.483	10.499	8831	2.500 CAL
o-Xylene	11.333	11.349	6486	2.500 CAL
Bromofluorobenzene (PID)	12.233	12.249	1646591	450.000 CAL

0015U

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,btxe_1,s7770,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_003**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 3:34:54 PM
Analysis Date: 1/21/2008 10:52:53 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq** Sample Name: **ical,mbtxe_2,s7769,4/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_004** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met	Software Version 3.1.7 Run Date: 1/19/2008 4:10:45 PM Analysis Date: 1/21/2008 10:52:58 AM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1057129	450.000 CAL
Bromofluorobenzene (FID)	14.883	14.900	882443	450.000 CAL
GAS:6-8			76217	0.000 CAL
GAS:6-10			277327	0.000 CAL
GAS:8-10			201110	0.000 CAL
GAS:6-12			390813	0.000 CAL
GAS:7-12			374578	0.000 CAL
JP4:7-12			374578	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.917	40686	10.000 CAL
Benzene	4.233	4.283	83689	10.000 CAL
Trifluorotoluene (PID)	5.600	5.617	1351360	450.000 CAL
Toluene	8.017	8.033	84290	10.000 CAL
Ethylbenzene	11.850	11.867	64248	10.000 CAL
m,p-Xylenes	12.067	12.083	94545	10.000 CAL
o-Xylene	13.183	13.200	76018	10.000 CAL
Bromofluorobenzene (PID)	14.883	14.900	3680306	450.000 CAL

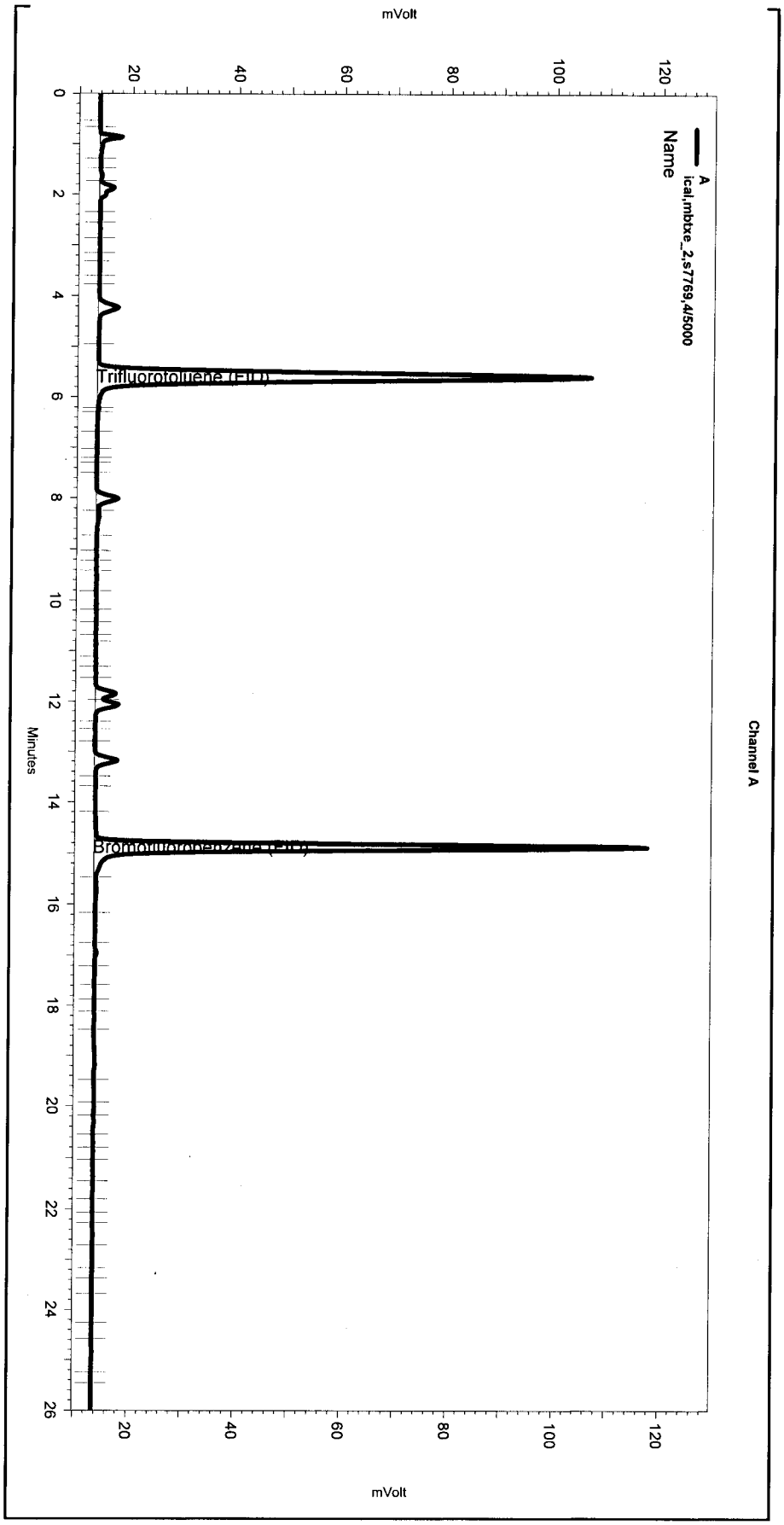
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.800	13089	10.000 CAL
Benzene	3.200	3.216	30170	10.000 CAL
Trifluorotoluene (PID)	4.516	4.533	583624	450.000 CAL
Toluene	6.533	6.533	26288	10.000 CAL
Ethylbenzene	10.149	10.149	22924	10.000 CAL
m,p-Xylenes	10.499	10.499	31050	10.000 CAL
o-Xylene	11.349	11.349	23880	10.000 CAL
Bromofluorobenzene (PID)	12.249	12.249	1682969	450.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq
Sample Name: **ical,mbtxe_2,s7769,4/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_004
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 4:10:45 PM
Analysis Date: 1/21/2008 10:52:58 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

: 00157

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,mbtxe_3,s7769,10/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_005**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 4:46:34 PM
Analysis Date: 1/21/2008 10:53:03 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1066313	450.000 CAL
Bromofluorobenzene (FID)	14.883	14.900	862196	450.000 CAL
GAS:6-8			115921	0.000 CAL
GAS:6-10			502827	0.000 CAL
GAS:8-10			386906	0.000 CAL
GAS:6-12			544192	0.000 CAL
GAS:7-12			527715	0.000 CAL
JP4:7-12			527715	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.917	95525	25.000 CAL
Benzene	4.250	4.283	202661	25.000 CAL
Trifluorotoluene (PID)	5.600	5.617	1388972	450.000 CAL
Toluene	8.033	8.033	191291	25.000 CAL
Ethylbenzene	11.850	11.867	154614	25.000 CAL
m,p-Xylenes	12.067	12.083	203837	25.000 CAL
o-Xylene	13.183	13.200	175112	25.000 CAL
Bromofluorobenzene (PID)	14.883	14.900	3670570	450.000 CAL

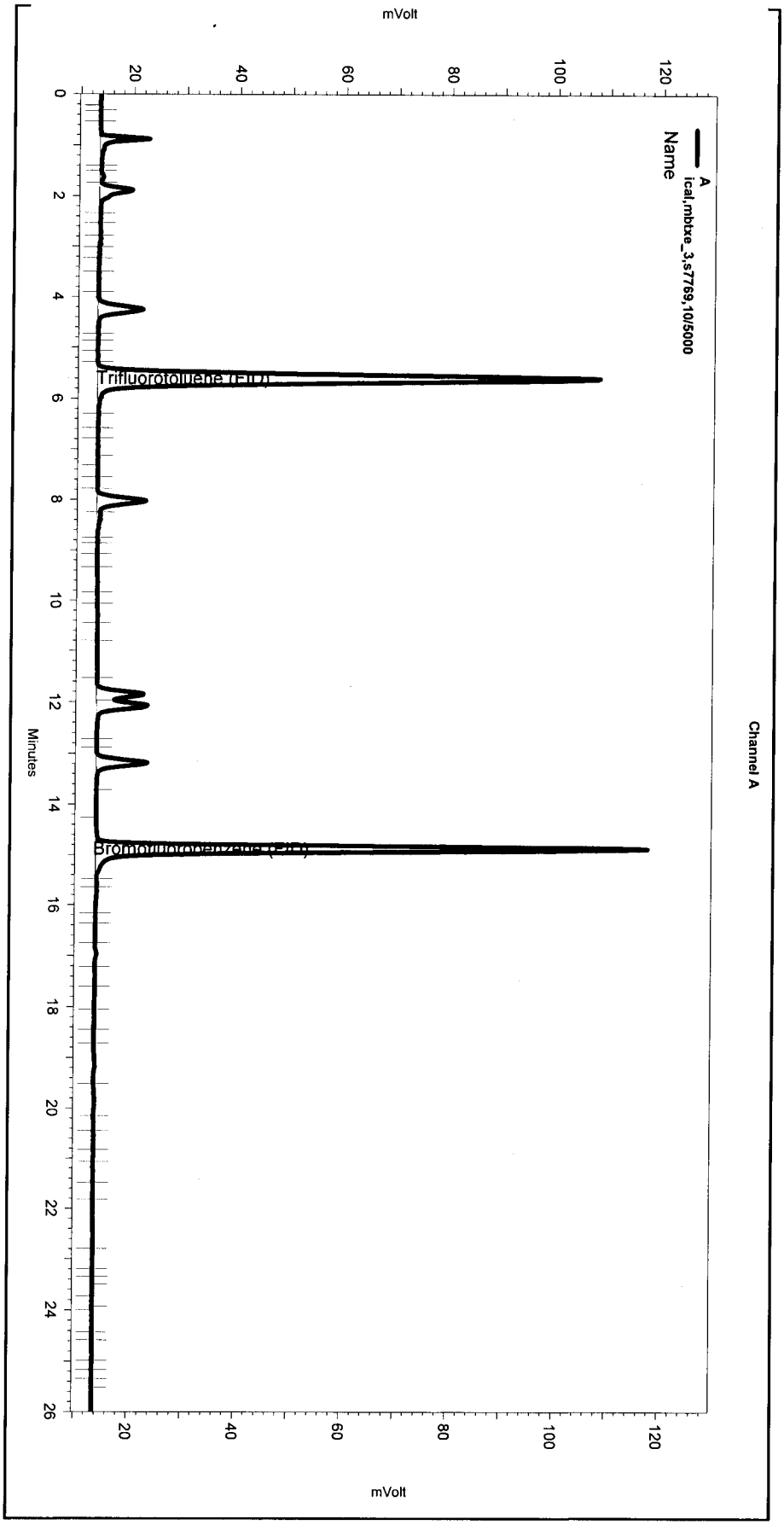
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.800	31907	25.000 CAL
Benzene	3.200	3.216	69602	25.000 CAL
Trifluorotoluene (PID)	4.516	4.533	599700	450.000 CAL
Toluene	6.533	6.533	76325	25.000 CAL
Ethylbenzene	10.149	10.149	57555	25.000 CAL
m,p-Xylenes	10.499	10.499	74843	25.000 CAL
o-Xylene	11.349	11.349	68006	25.000 CAL
Bromofluorobenzene (PID)	12.249	12.249	1690463	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,mbtxe_3,s7769,10/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_005**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 4:46:34 PM
Analysis Date: 1/21/2008 10:53:03 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

80159

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**	Software Version 3.1.7
Sample Name: **ical,mbtxe_4,s7769,40/5000**	Run Date: 1/19/2008 5:22:32 PM
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_006**	Analysis Date: 1/21/2008 10:53:08 AM
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met	Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	1066756	450.000 CAL
Bromofluorobenzene (FID)	14.900	14.900	872453	450.000 CAL
GAS:6-8			372681	0.000 CAL
GAS:6-10			1778013	0.000 CAL
GAS:8-10			1405332	0.000 CAL
GAS:6-12			1856762	0.000 CAL
GAS:7-12			1840395	0.000 CAL
JP4:7-12			1840395	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.917	353781	100.000 CAL
Benzene	4.267	4.283	774495	100.000 CAL
Trifluorotoluene (PID)	5.617	5.617	1372771	450.000 CAL
Toluene	8.033	8.033	781620	100.000 CAL
Ethylbenzene	11.867	11.867	576289	100.000 CAL
m,p-Xylenes	12.083	12.083	785654	100.000 CAL
o-Xylene	13.200	13.200	672855	100.000 CAL
Bromofluorobenzene (PID)	14.900	14.900	3624293	450.000 CAL

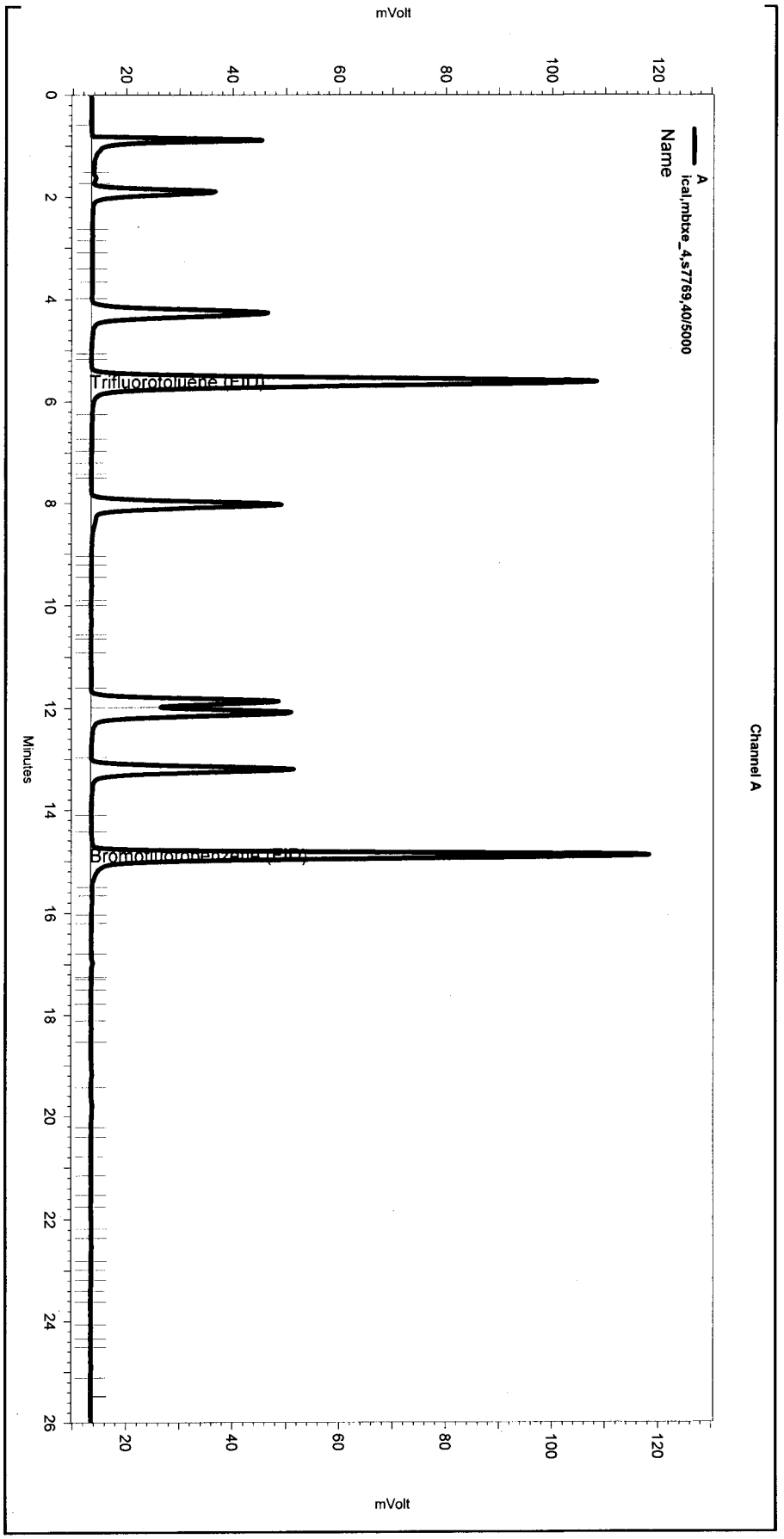
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.800	1.800	141420	100.000 CAL
Benzene	3.200	3.216	322674	100.000 CAL
Trifluorotoluene (PID)	4.516	4.533	592991	450.000 CAL
Toluene	6.533	6.533	300236	100.000 CAL
Ethylbenzene	10.133	10.149	248743	100.000 CAL
m,p-Xylenes	10.499	10.499	319341	100.000 CAL
o-Xylene	11.349	11.349	280528	100.000 CAL
Bromofluorobenzene (PID)	12.249	12.249	1608963	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,mbtxe_4,s7769,40/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_006**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 5:22:32 PM
Analysis Date: 1/21/2008 10:53:08 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**	Software Version 3.1.7
Sample Name: **ical,mbtxe_5,s7768,5/5000**	Run Date: 1/19/2008 5:58:18 PM
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_007**	Analysis Date: 1/21/2008 10:53:13 AM
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met	Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	1047035	450.000 CAL
Bromofluorobenzene (FID)	14.900	14.900	858674	450.000 CAL
GAS:6-8			1703998	0.000 CAL
GAS:6-10			8464475	0.000 CAL
GAS:8-10			6760477	0.000 CAL
GAS:6-12			8518314	0.000 CAL
GAS:7-12			8509695	0.000 CAL
JP4:7-12			8509695	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.917	1.917	1954805	500.000 CAL
Benzene	4.283	4.283	3882756	500.000 CAL
Trifluorotoluene (PID)	5.617	5.617	1352570	450.000 CAL
Toluene	8.033	8.033	3639701	500.000 CAL
Ethylbenzene	11.867	11.867	2951968	500.000 CAL
m,p-Xylenes	12.083	12.083	3749847	500.000 CAL
o-Xylene	13.200	13.200	3342559	500.000 CAL
Bromofluorobenzene (PID)	14.900	14.900	3588028	450.000 CAL

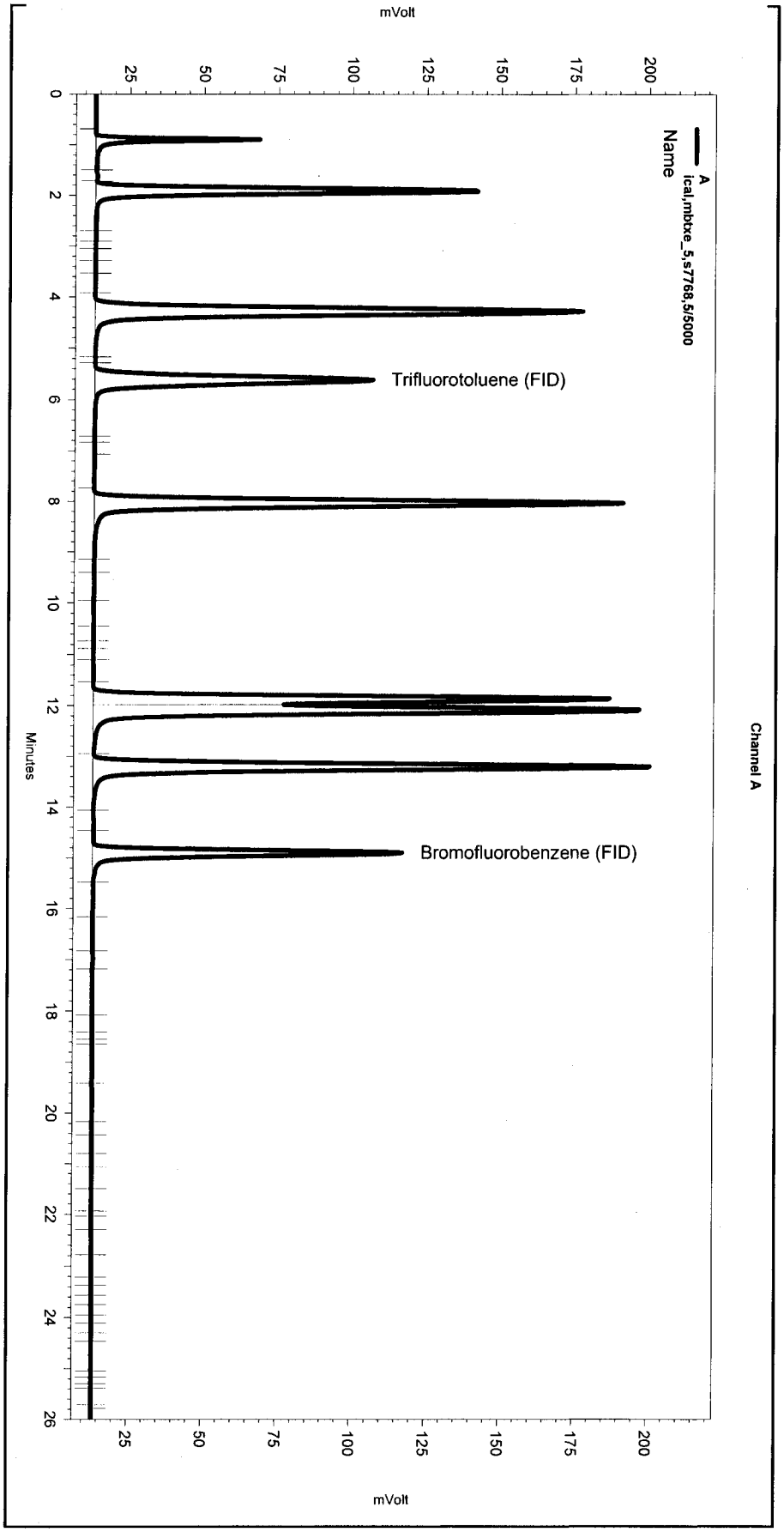
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.800	1.800	870317	500.000 CAL
Benzene	3.216	3.216	1746795	500.000 CAL
Trifluorotoluene (PID)	4.533	4.533	573651	450.000 CAL
Toluene	6.533	6.533	1625609	500.000 CAL
Ethylbenzene	10.149	10.149	1351230	500.000 CAL
m,p-Xylenes	10.499	10.499	1696951	500.000 CAL
o-Xylene	11.349	11.349	1503459	500.000 CAL
Bromofluorobenzene (PID)	12.249	12.249	1585166	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,mbtxe_5,s7768,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_007**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 5:58:18 PM
Analysis Date: 1/21/2008 10:53:13 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

00163

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,mbtxe_6,s7768,10/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_008**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 6:34:04 PM
Analysis Date: 1/21/2008 10:53:19 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	1150442	450.000 CAL
Bromofluorobenzene (FID)	14.900	14.900	924726	450.000 CAL
GAS:6-8			3487342	0.000 CAL
GAS:6-10			17345912	0.000 CAL
GAS:8-10			13858569	0.000 CAL
GAS:6-12			17405126	0.000 CAL
GAS:7-12			17390618	0.000 CAL
JP4:7-12			17390618	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.917	3911710	1000.000 CAL
Benzene	4.283	4.283	7901787	1000.000 CAL
Trifluorotoluene (PID)	5.617	5.617	1482517	450.000 CAL
Toluene	8.033	8.033	7352497	1000.000 CAL
Ethylbenzene	11.867	11.867	5962998	1000.000 CAL
m,p-Xylenes	12.083	12.083	7828081	1000.000 CAL
o-Xylene	13.200	13.200	6837980	1000.000 CAL
Bromofluorobenzene (PID)	14.900	14.900	3880763	450.000 CAL

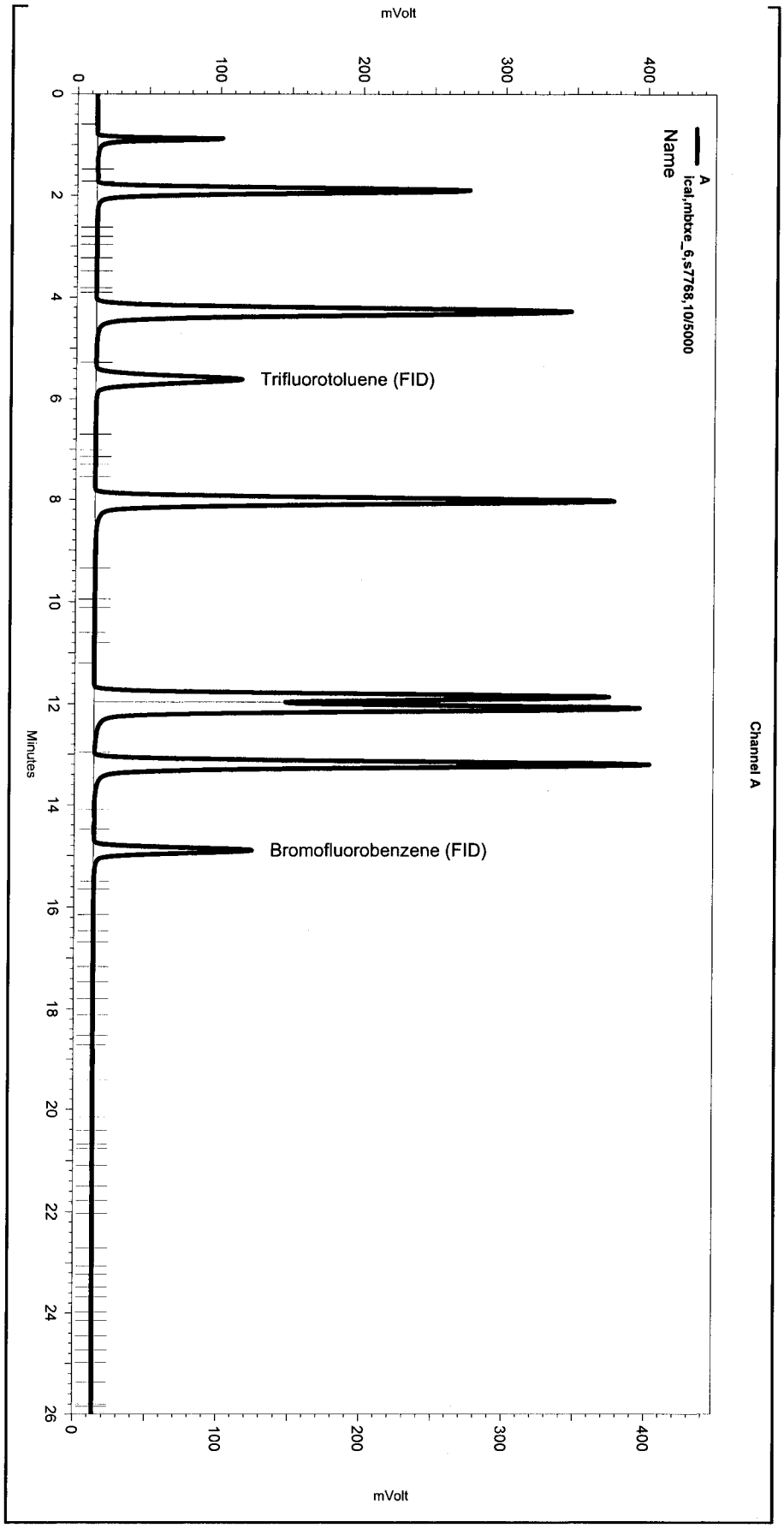
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.817	1.800	1793991	1000.000 CAL
Benzene	3.233	3.216	3642559	1000.000 CAL
Trifluorotoluene (PID)	4.533	4.533	630962	450.000 CAL
Toluene	6.533	6.533	3402412	1000.000 CAL
Ethylbenzene	10.149	10.149	2856903	1000.000 CAL
m,p-Xylenes	10.499	10.499	3567112	1000.000 CAL
o-Xylene	11.349	11.349	3166413	1000.000 CAL
Bromofluorobenzene (PID)	12.249	12.249	1710738	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,mbtxe_6,s7768,10/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_008**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 6:34:04 PM
Analysis Date: 1/21/2008 10:53:19 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

0165

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq** Sample Name: **ical,mbtxe_7,s7768,20/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_009** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met	Software Version 3.1.7 Run Date: 1/19/2008 7:09:44 PM Analysis Date: 1/21/2008 10:53:24 AM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	1084479	450.000 CAL
Bromofluorobenzene (FID)	14.900	14.900	879724	450.000 CAL
GAS:6-8			6840845	0.000 CAL
GAS:6-10			33723352	0.000 CAL
GAS:8-10			26882512	0.000 CAL
GAS:6-12			33785176	0.000 CAL
GAS:7-12			33760896	0.000 CAL
JP4:7-12			33760896	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.917	1.917	7856570	2000.000 CAL
Benzene	4.283	4.283	15289288	2000.000 CAL
Trifluorotoluene (PID)	5.617	5.617	1420010	450.000 CAL
Toluene	8.033	8.033	14152402	2000.000 CAL
Ethylbenzene	11.867	11.867	11731382	2000.000 CAL
m,p-Xylenes	12.083	12.083	14731261	2000.000 CAL
o-Xylene	13.200	13.200	13165546	2000.000 CAL
Bromofluorobenzene (PID)	14.900	14.900	3698469	450.000 CAL

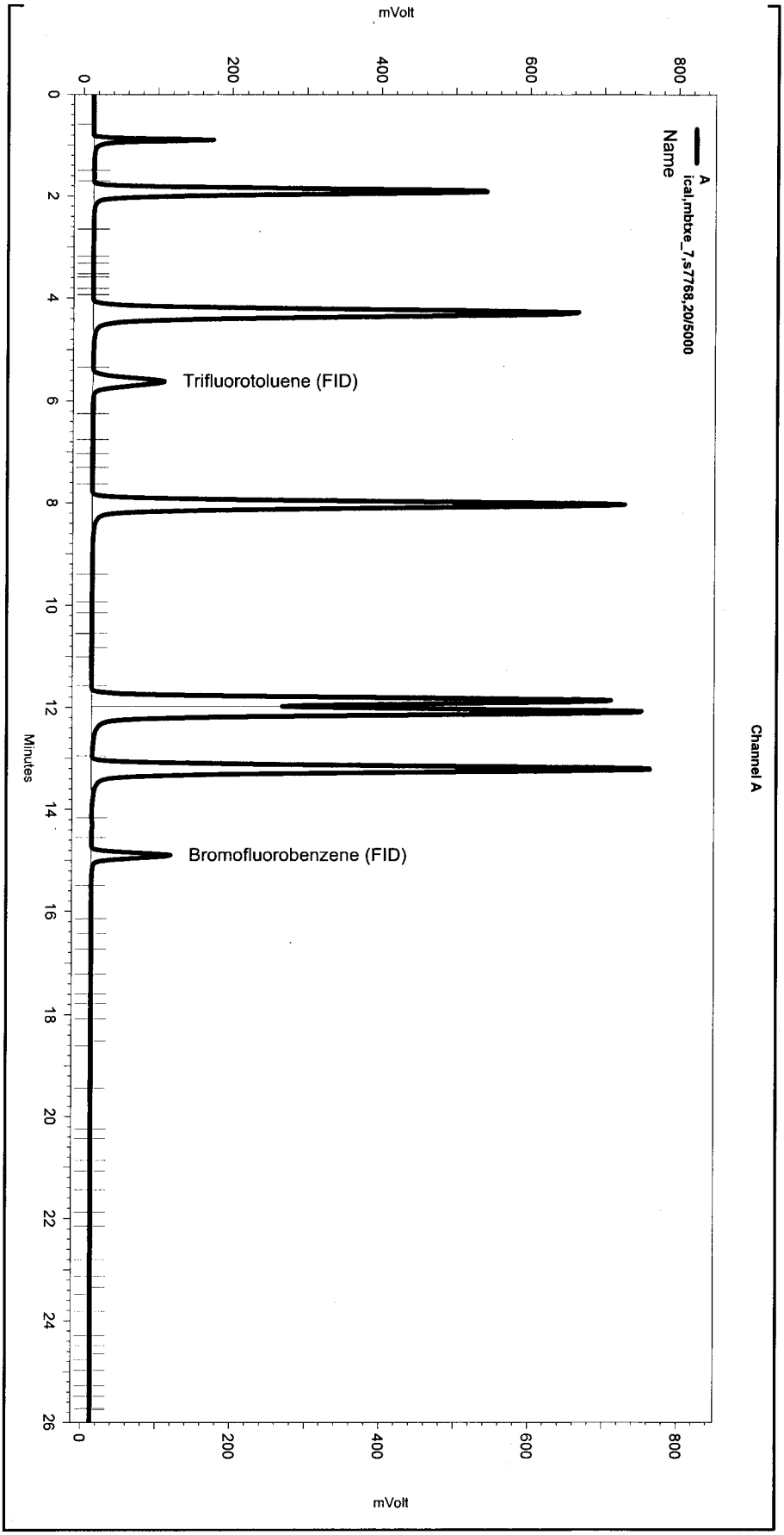
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.800	1.800	3656573	2000.000 CAL
Benzene	3.233	3.216	7187617	2000.000 CAL
Trifluorotoluene (PID)	4.533	4.533	562349	450.000 CAL
Toluene	6.533	6.533	6699265	2000.000 CAL
Ethylbenzene	10.149	10.149	5627407	2000.000 CAL
m,p-Xylenes	10.499	10.499	7025676	2000.000 CAL
o-Xylene	11.349	11.349	6234807	2000.000 CAL
Bromofluorobenzene (PID)	12.249	12.249	1579679	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,mbtxe_7,s7768,20/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_009**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 7:09:44 PM
Analysis Date: 1/21/2008 10:53:24 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

20167

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq** Sample Name: **ical,mtbe_7,s7767,10/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_010** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met	Software Version 3.1.7 Run Date: 1/19/2008 7:45:36 PM Analysis Date: 1/21/2008 10:53:29 AM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.633	5.617	1043303	450.000 CAL
Bromofluorobenzene (FID)	14.900	14.900	850088	450.000 CAL
GAS:6-8			41032	0.000 CAL
GAS:6-10			263347	0.000 CAL
GAS:8-10			222315	0.000 CAL
GAS:6-12			311765	0.000 CAL
GAS:7-12			304510	0.000 CAL
JP4:7-12			304510	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.917	1.917	20469016	5000.000 CAL
Benzene	4.283	4.283	38442	0.000 CAL
Trifluorotoluene (PID)	5.633	5.617	1344013	450.000 CAL
Toluene	8.033	8.033	86112	0.000 CAL
Ethylbenzene	11.883	11.867	86718	0.000 CAL
m,p-Xylenes	12.100	12.083	131530	0.000 CAL
o-Xylene	13.217	13.200	112065	0.000 CAL
Bromofluorobenzene (PID)	14.900	14.900	3579078	450.000 CAL

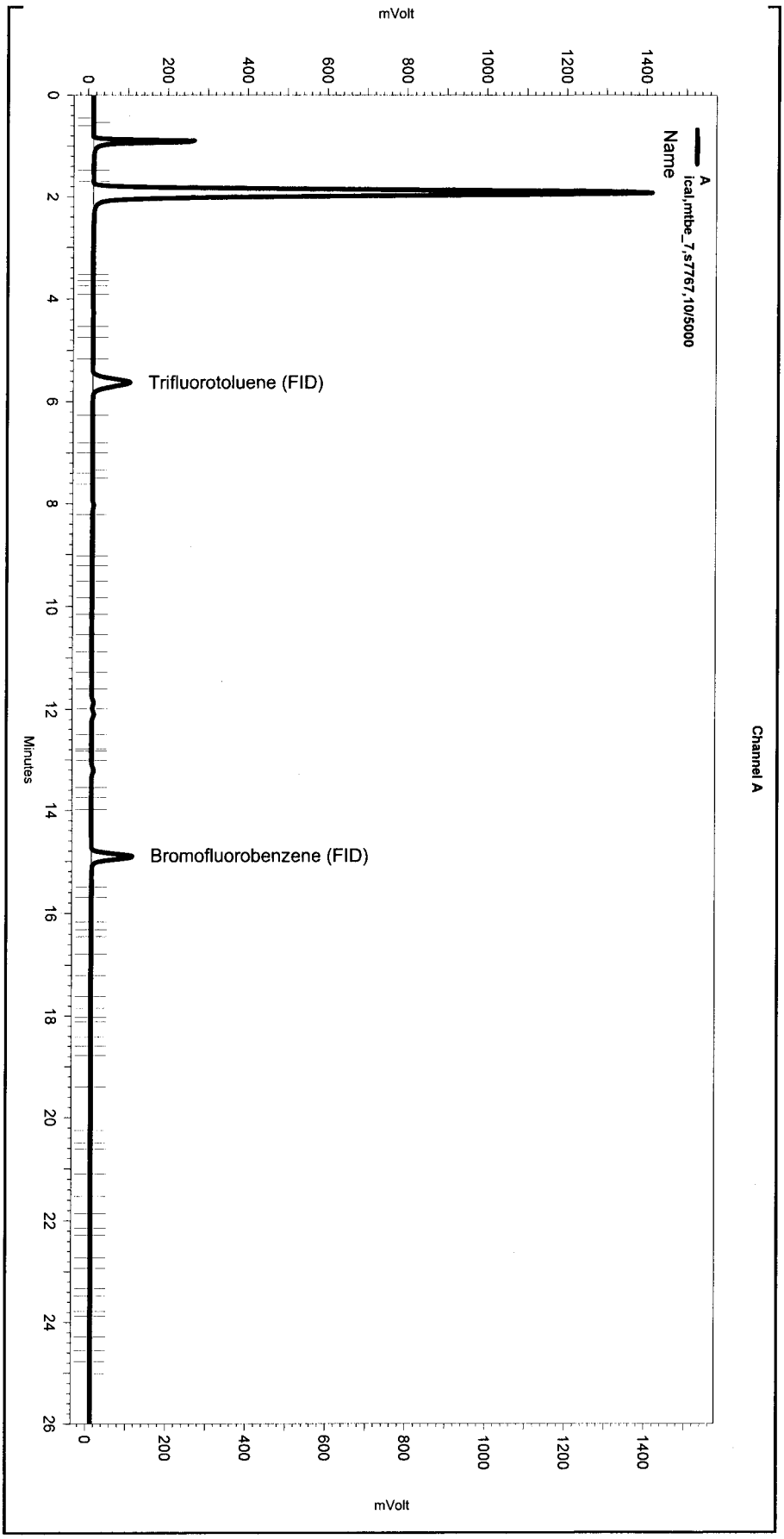
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.817	1.800	7586499	5000.000 CAL
Benzene	3.200	3.216	3979	0.000 CAL
Trifluorotoluene (PID)	4.533	4.533	495296	450.000 CAL
Toluene	6.533	6.533	16095	0.000 CAL
Ethylbenzene	10.149	10.149	18129	0.000 CAL
m,p-Xylenes	10.516	10.499	28941	0.000 CAL
o-Xylene	11.349	11.349	26170	0.000 CAL
Bromofluorobenzene (PID)	12.249	12.249	1530159	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **ical,mtbe_7,s7767,10/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_010**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 7:45:36 PM
Analysis Date: 1/21/2008 10:53:29 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq** Sample Name: **icv,mbtxe,s7868,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_013** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met	Software Version 3.1.7 Run Date: 1/19/2008 9:33:30 PM Analysis Date: 1/21/2008 10:53:40 AM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1089753	457.048
Bromofluorobenzene (FID)	14.883	14.900	895486	460.962
GAS:6-8			378554	0.000
GAS:6-10			2183866	1376.534
GAS:8-10			1805312	0.000
GAS:6-12			2232213	1087.276
GAS:7-12			2222564	1315.068
JP4:7-12			2222564	1322.090

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.917	422502	108.450
Benzene	4.250	4.283	835656	101.697
Trifluorotoluene (PID)	5.600	5.617	1399288	453.992
Toluene	8.017	8.033	813766	100.050
Ethylbenzene	11.867	11.867	607469	98.652
m,p-Xylenes	12.083	12.083	1622175	188.973
o-Xylene	13.200	13.200	712770	99.836
Bromofluorobenzene (PID)	14.883	14.900	3743935	459.045

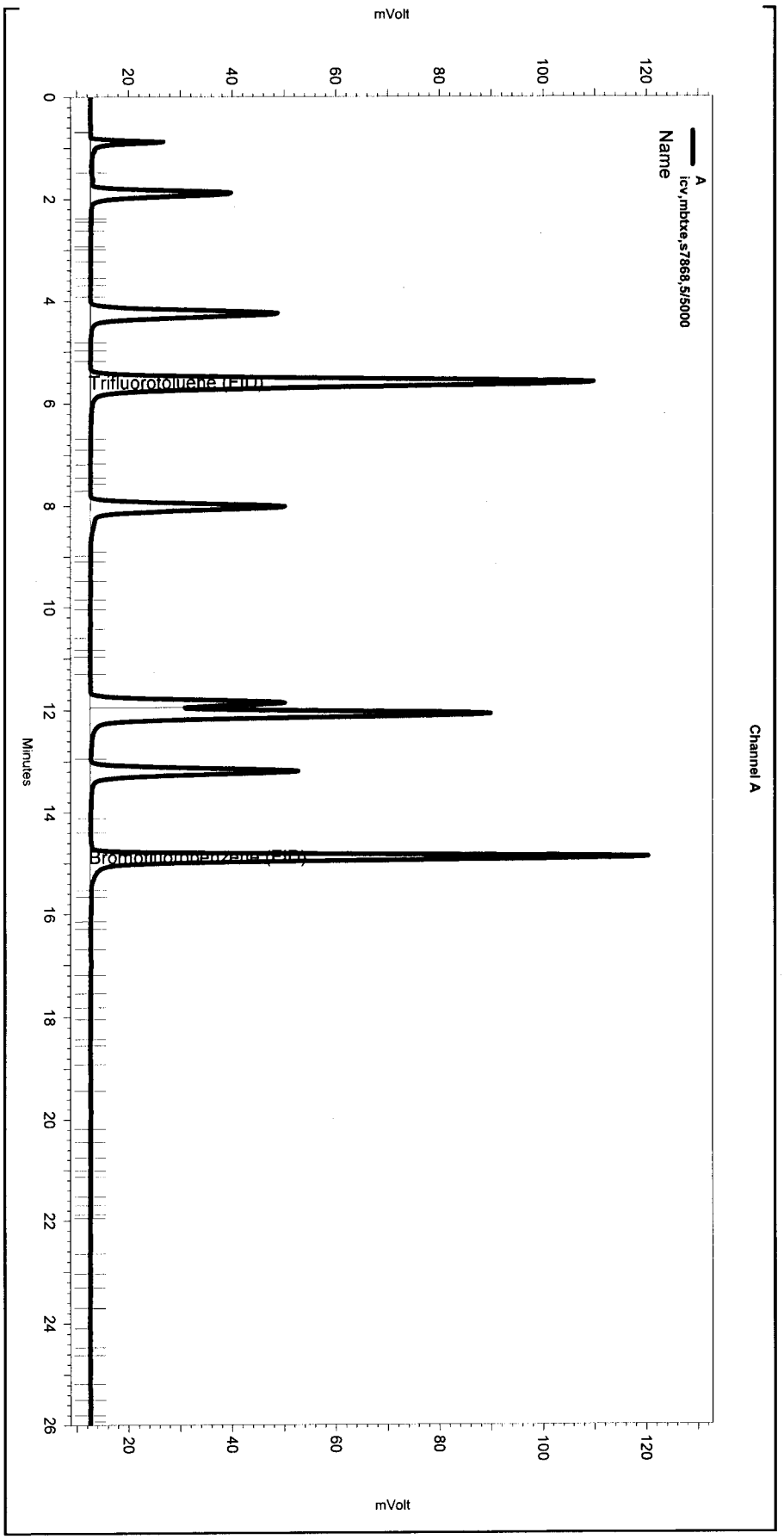
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.800	1.800	158943	102.265
Benzene	3.200	3.216	337434	104.449
Trifluorotoluene (PID)	4.516	4.533	582810	451.564
Toluene	6.533	6.533	305505	94.098
Ethylbenzene	10.149	10.149	256277	100.398
m,p-Xylenes	10.499	10.499	671464	201.741
o-Xylene	11.349	11.349	288746	102.089
Bromofluorobenzene (PID)	12.249	12.249	1642277	453.573

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\019.seq**
Sample Name: **icv,mbtxe,s7868,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\019_013**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe019.met

Software Version 3.1.7
Run Date: 1/19/2008 9:33:30 PM
Analysis Date: 1/21/2008 10:53:40 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\019_013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCVOA Soil: EPA 8015B

Inst : GC07
Calnum : 328095970001
Units : ng

Name : tvh066
Date : 07-MAR-2008 03:41
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	066_017	328095970017	TVH 1	07-MAR-2008 03:41	S7784 (1000X), S8275 (5000X)
L2	066_018	328095970018	TVH 2	07-MAR-2008 04:17	S7783 (1000X), S8275 (5000X)
L3	066_019	328095970019	TVH 3	07-MAR-2008 04:52	S7782 (1000X), S8275 (5000X)
L4	066_020	328095970020	TVH 4	07-MAR-2008 05:28	S7781 (2000X), S8275 (5000X)
L5	066_021	328095970021	TVH 5	07-MAR-2008 06:04	S7781 (1000X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1265.6	1125.0	1190.0	977.63	1213.5	AVRG		8.66E-4		1154.3	10	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	10	2500	-3	10000	3	25000	-15	50000	5

Analyst: PDM Date: 03/07/08 Reviewer: LH Date: 03/07/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Name : tvh066
Calnum : 328095970001 Cal Date : 07-MAR-2008

ICV 328095970023 (066_023 07-MAR-2008) stds: S8283 (1000X), S8275 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1154.3	1265.1	10000	10960	ng	10	

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq** Sample Name: **ical,tvh 1,s7784,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_017** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met	Software Version 3.1.7 Run Date: 3/7/2008 3:41:01 AM Analysis Date: 3/7/2008 9:24:36 AM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.583	5.600	881340	0.000 CAL
Bromofluorobenzene (FID)	14.900	14.900	764816	0.000 CAL
GAS:6-8			120867	0.000 CAL
GAS:6-10			299226	250.000 CAL
GAS:8-10			178359	0.000 CAL
GAS:6-12			383315	250.000 CAL
GAS:7-12			316392	250.000 CAL
JP4:7-12			316392	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.883	20683	0.000 CAL
Benzene	4.217	4.233	22150	0.000 CAL
Trifluorotoluene (PID)	5.583	5.600	1093639	0.000 CAL
Toluene	8.000	8.017	120544	0.000 CAL
Ethylbenzene	11.850	11.850	21215	0.000 CAL
m,p-Xylenes	12.083	12.067	101317	0.000 CAL
o-Xylene	13.200	13.183	34754	0.000 CAL
Bromofluorobenzene (PID)	14.900	14.883	3111955	0.000 CAL

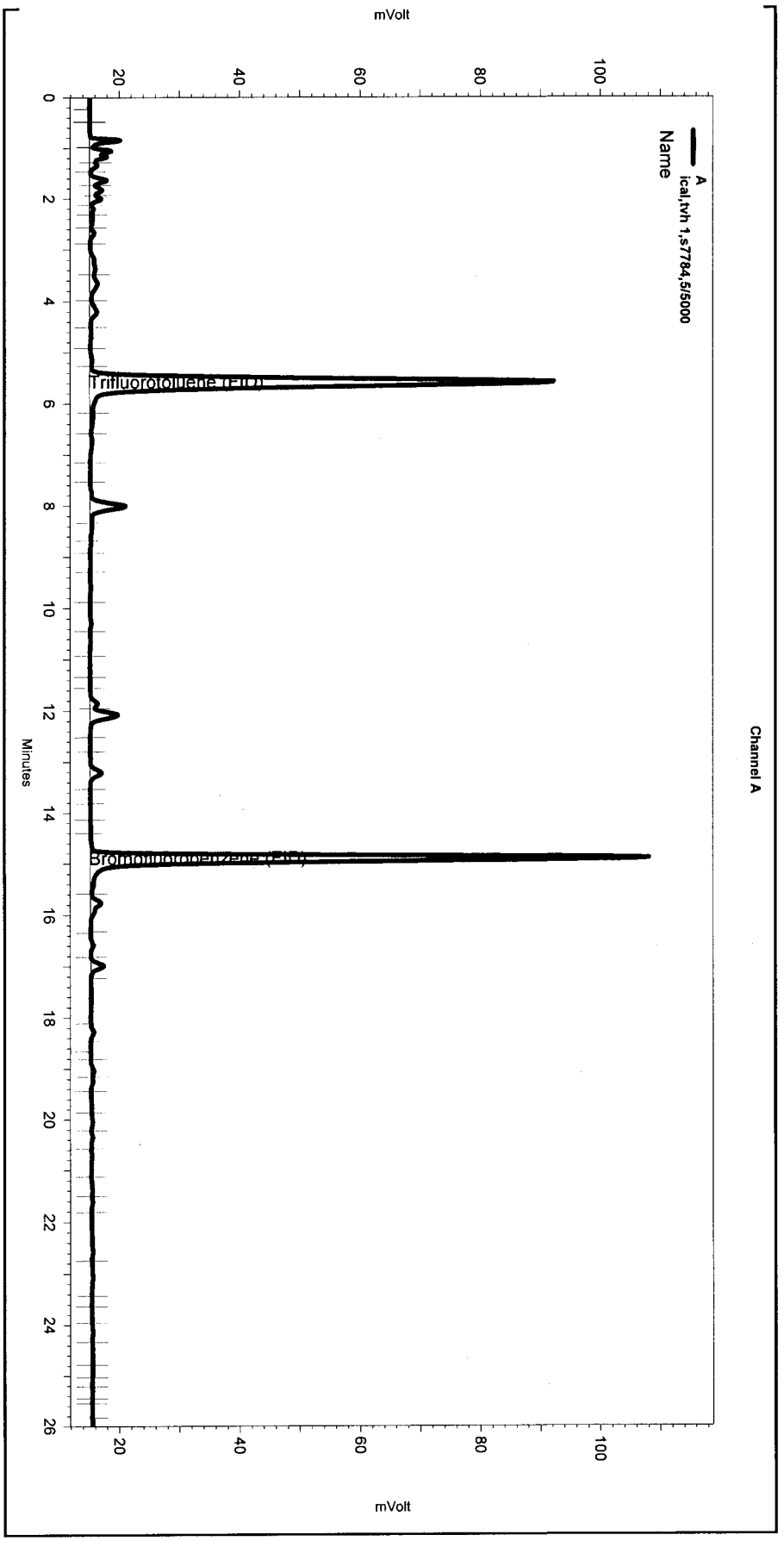
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.767	1.767	6599	0.000 CAL
Benzene	3.166	3.166	8142	0.000 CAL
Trifluorotoluene (PID)	4.500	4.500	468809	0.000 CAL
Toluene	6.516	6.500	50081	0.000 CAL
Ethylbenzene	10.133	10.116	6602	0.000 CAL
m,p-Xylenes	10.483	10.483	35838	0.000 CAL
o-Xylene	11.333	11.316	13761	0.000 CAL
Bromofluorobenzene (PID)	12.249	12.233	1439543	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**
Sample Name: **ical,tvh 1,s7784,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_017**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met

Software Version 3.1.7
Run Date: 3/7/2008 3:41:01 AM
Analysis Date: 3/7/2008 9:24:36 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\066_017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq** Sample Name: **ical,tvh 2,s7783,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_018** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met	Software Version 3.1.7 Run Date: 3/7/2008 4:17:01 AM Analysis Date: 3/7/2008 9:24:41 AM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1017743	0.000 CAL
Bromofluorobenzene (FID)	14.900	14.900	800905	0.000 CAL
GAS:6-8			1090137	0.000 CAL
GAS:6-10			2629601	2500.000 CAL
GAS:8-10			1539464	0.000 CAL
GAS:6-12			3390818	2500.000 CAL
GAS:7-12			2812455	2500.000 CAL
JP4:7-12			2812455	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.883	122851	0.000 CAL
Benzene	4.233	4.233	216207	0.000 CAL
Trifluorotoluene (PID)	5.600	5.600	1238822	0.000 CAL
Toluene	8.017	8.017	1188289	0.000 CAL
Ethylbenzene	11.850	11.850	187618	0.000 CAL
m,p-Xylenes	12.083	12.067	943354	0.000 CAL
o-Xylene	13.183	13.183	330844	0.000 CAL
Bromofluorobenzene (PID)	14.900	14.883	3350287	0.000 CAL

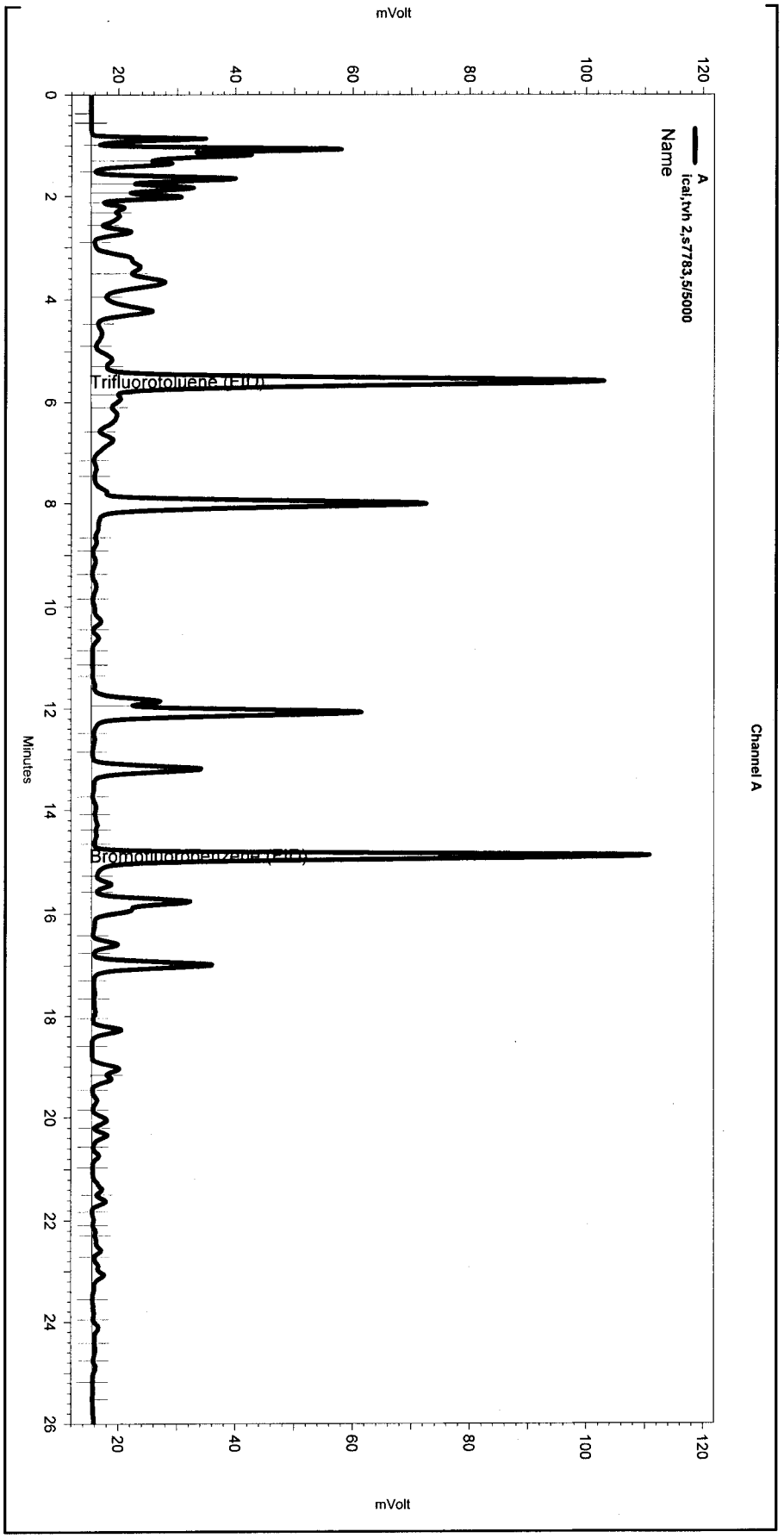
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.767	49971	0.000 CAL
Benzene	3.183	3.166	78872	0.000 CAL
Trifluorotoluene (PID)	4.516	4.500	551774	0.000 CAL
Toluene	6.516	6.500	531013	0.000 CAL
Ethylbenzene	10.133	10.116	74086	0.000 CAL
m,p-Xylenes	10.483	10.483	406112	0.000 CAL
o-Xylene	11.333	11.316	140660	0.000 CAL
Bromofluorobenzene (PID)	12.233	12.233	1507425	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**
Sample Name: **ical,tvh 2,s7783,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_018**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met

Software Version 3.1.7
Run Date: 3/7/2008 4:17:01 AM
Analysis Date: 3/7/2008 9:24:41 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\066_018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**	Software Version 3.1.7
Sample Name: **ical,tvh 3,s7782,5/5000**	Run Date: 3/7/2008 4:52:51 AM
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_019**	Analysis Date: 3/7/2008 9:24:46 AM
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met	Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1131757	0.000 CAL
Bromofluorobenzene (FID)	14.883	14.900	793916	0.000 CAL
GAS:6-8			4498474	0.000 CAL
GAS:6-10			11000791	10000.000 CAL
GAS:8-10			6502317	0.000 CAL
GAS:6-12			14280455	10000.000 CAL
GAS:7-12			11900434	10000.000 CAL
JP4:7-12			11900434	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.883	439482	0.000 CAL
Benzene	4.267	4.233	931414	0.000 CAL
Trifluorotoluene (PID)	5.600	5.600	1309550	0.000 CAL
Toluene	8.017	8.017	4881262	0.000 CAL
Ethylbenzene	11.850	11.850	783173	0.000 CAL
m,p-Xylenes	12.067	12.067	3976157	0.000 CAL
o-Xylene	13.183	13.183	1418076	0.000 CAL
Bromofluorobenzene (PID)	14.883	14.883	3210435	0.000 CAL

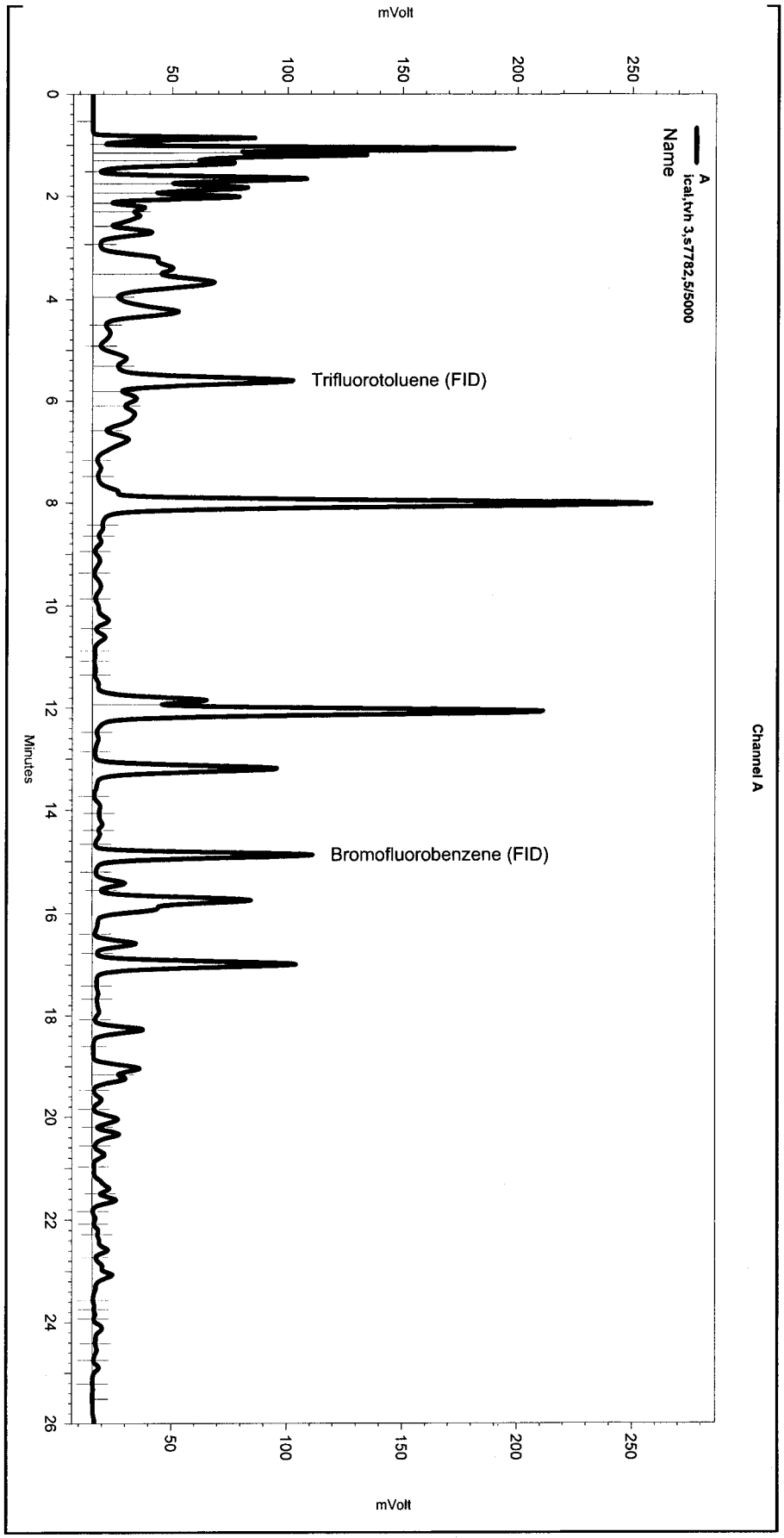
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.767	205033	0.000 CAL
Benzene	3.183	3.166	370830	0.000 CAL
Trifluorotoluene (PID)	4.516	4.500	638692	0.000 CAL
Toluene	6.533	6.500	2401305	0.000 CAL
Ethylbenzene	10.133	10.116	365457	0.000 CAL
m,p-Xylenes	10.483	10.483	1898289	0.000 CAL
o-Xylene	11.333	11.316	666677	0.000 CAL
Bromofluorobenzene (PID)	12.233	12.233	1512423	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**
Sample Name: **ical,tvh 3,s7782,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_019**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met

Software Version 3.1.7
Run Date: 3/7/2008 4:52:51 AM
Analysis Date: 3/7/2008 9:24:46 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\066_019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**
Sample Name: **ical,tvh 4,s7781,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_020**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met

Software Version 3.1.7
Run Date: 3/7/2008 5:28:38 AM
Analysis Date: 3/7/2008 9:24:52 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.583	5.600	1271427	0.000 CAL
Bromofluorobenzene (FID)	14.883	14.900	802562	0.000 CAL
GAS:6-8			9223573	0.000 CAL
GAS:6-10			22558748	25000.000 CAL
GAS:8-10			13335175	0.000 CAL
GAS:6-12			29330150	25000.000 CAL
GAS:7-12			24440690	25000.000 CAL
JP4:7-12			24440690	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.850	1.883	975587	0.000 CAL
Benzene	4.233	4.233	1910216	0.000 CAL
Trifluorotoluene (PID)	5.583	5.600	1416338	0.000 CAL
Toluene	8.000	8.017	10011706	0.000 CAL
Ethylbenzene	11.850	11.850	1541308	0.000 CAL
m,p-Xylenes	12.067	12.067	8233481	0.000 CAL
o-Xylene	13.183	13.183	2926512	0.000 CAL
Bromofluorobenzene (PID)	14.883	14.883	3206804	0.000 CAL

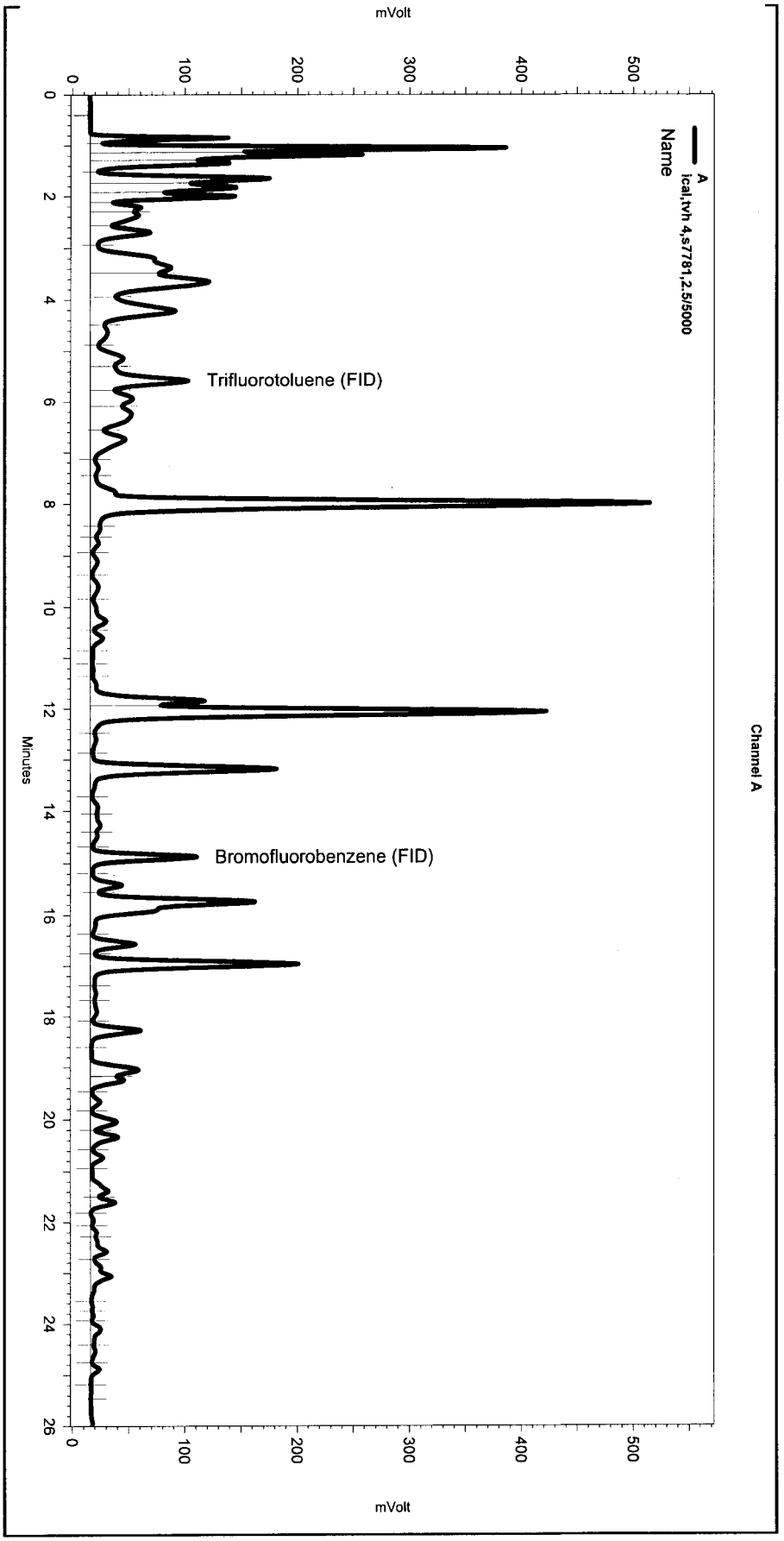
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.767	1.767	435492	0.000 CAL
Benzene	3.183	3.166	843871	0.000 CAL
Trifluorotoluene (PID)	4.500	4.500	753663	0.000 CAL
Toluene	6.516	6.500	5145950	0.000 CAL
Ethylbenzene	10.133	10.116	807111	0.000 CAL
m,p-Xylenes	10.483	10.483	4052764	0.000 CAL
o-Xylene	11.333	11.316	1402152	0.000 CAL
Bromofluorobenzene (PID)	12.233	12.233	1537143	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**
Sample Name: **ical,tvh 4,s7781,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_020**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met

Software Version 3.1.7
Run Date: 3/7/2008 5:28:38 AM
Analysis Date: 3/7/2008 9:24:52 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\066_020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq** Sample Name: **ical,tvh 5,s7781,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_021** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met	Software Version 3.1.7 Run Date: 3/7/2008 6:04:31 AM Analysis Date: 3/7/2008 9:24:58 AM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1780156	0.000 CAL
Bromofluorobenzene (FID)	14.883	14.900	867603	0.000 CAL
GAS:6-8			25683540	0.000 CAL
GAS:6-10			58675104	50000.000 CAL
GAS:8-10			32991568	0.000 CAL
GAS:6-12			75381136	50000.000 CAL
GAS:7-12			60676152	50000.000 CAL
JP4:7-12			60676152	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.883	2262571	0.000 CAL
Benzene	4.267	4.233	4735277	0.000 CAL
Trifluorotoluene (PID)	5.600	5.600	1814146	0.000 CAL
Toluene	8.017	8.017	24100632	0.000 CAL
Ethylbenzene	11.867	11.850	3877441	0.000 CAL
m,p-Xylenes	12.083	12.067	19922664	0.000 CAL
o-Xylene	13.200	13.183	7041107	0.000 CAL
Bromofluorobenzene (PID)	14.883	14.883	3307197	0.000 CAL

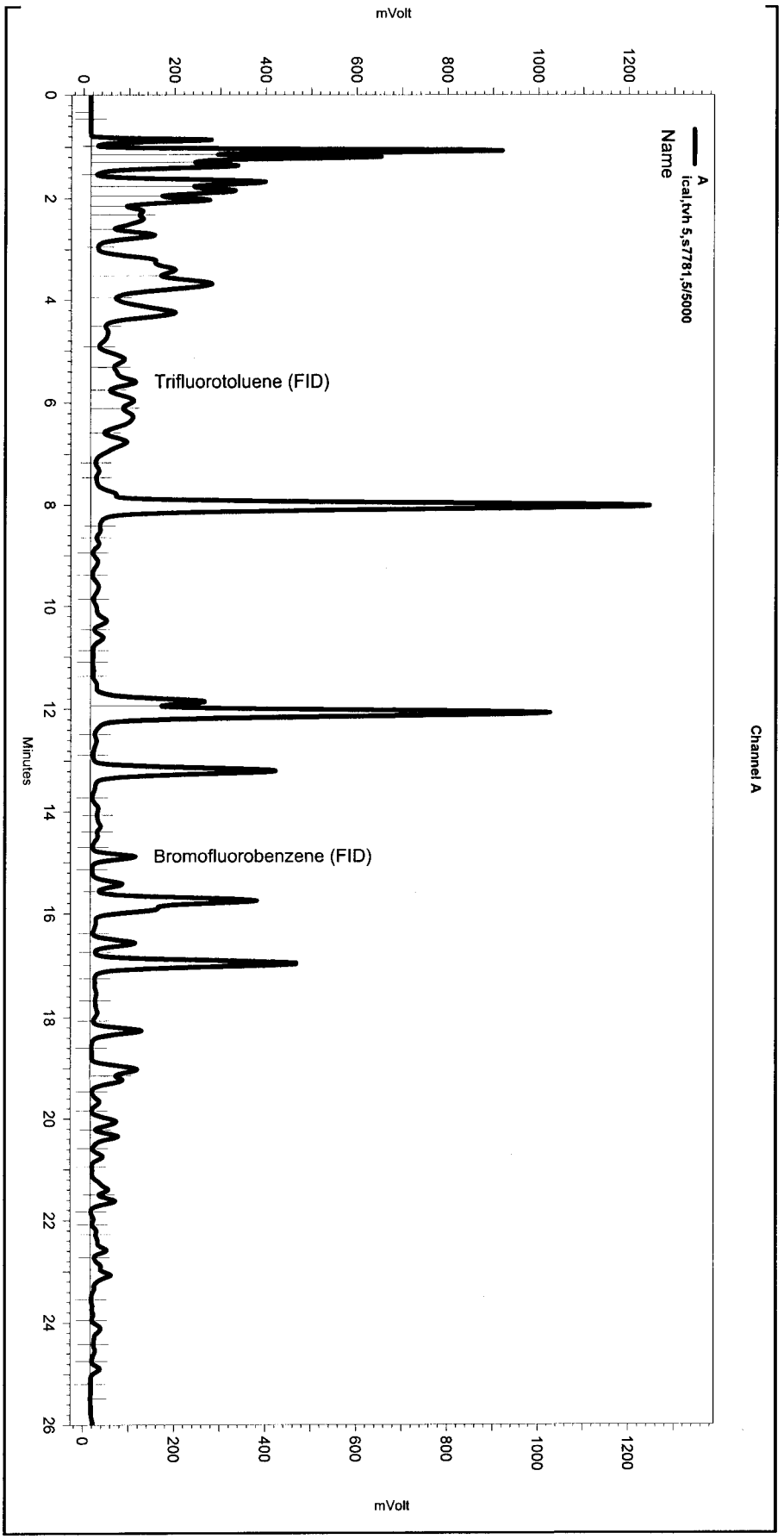
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.767	1068717	0.000 CAL
Benzene	3.200	3.166	2196523	0.000 CAL
Trifluorotoluene (PID)	4.516	4.500	821397	0.000 CAL
Toluene	6.550	6.500	10890772	0.000 CAL
Ethylbenzene	10.133	10.116	2052441	0.000 CAL
m,p-Xylenes	10.483	10.483	10004000	0.000 CAL
o-Xylene	11.349	11.316	3514801	0.000 CAL
Bromofluorobenzene (PID)	12.249	12.233	1601423	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**
Sample Name: **ical,tvh 5,s7781,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_021**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met

Software Version 3.1.7
Run Date: 3/7/2008 6:04:31 AM
Analysis Date: 3/7/2008 9:24:58 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\066_021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq** Sample Name: **x, icv,tvh,s8283,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_023** Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met	Software Version 3.1.7 Run Date: 3/7/2008 7:16:22 AM Analysis Date: 3/7/2008 9:25:06 AM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1131691	474.637
Bromofluorobenzene (FID)	14.900	14.900	797300	410.420
GAS:6-8			4789537	0.000
GAS:6-10			11686522	10771.632
GAS:8-10			6896985	0.000
GAS:6-12			15192741	10854.344
GAS:7-12			12650945	10959.378
JP4:7-12			12650945	7525.404

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.883	499801	128.291
Benzene	4.233	4.233	979732	119.231
Trifluorotoluene (PID)	5.600	5.600	1327129	430.580
Toluene	8.017	8.017	5206086	640.074
Ethylbenzene	11.867	11.850	830140	134.813
m,p-Xylenes	12.100	12.067	4252052	495.337
o-Xylene	13.200	13.183	1501321	210.286
Bromofluorobenzene (PID)	14.900	14.883	3258301	399.501

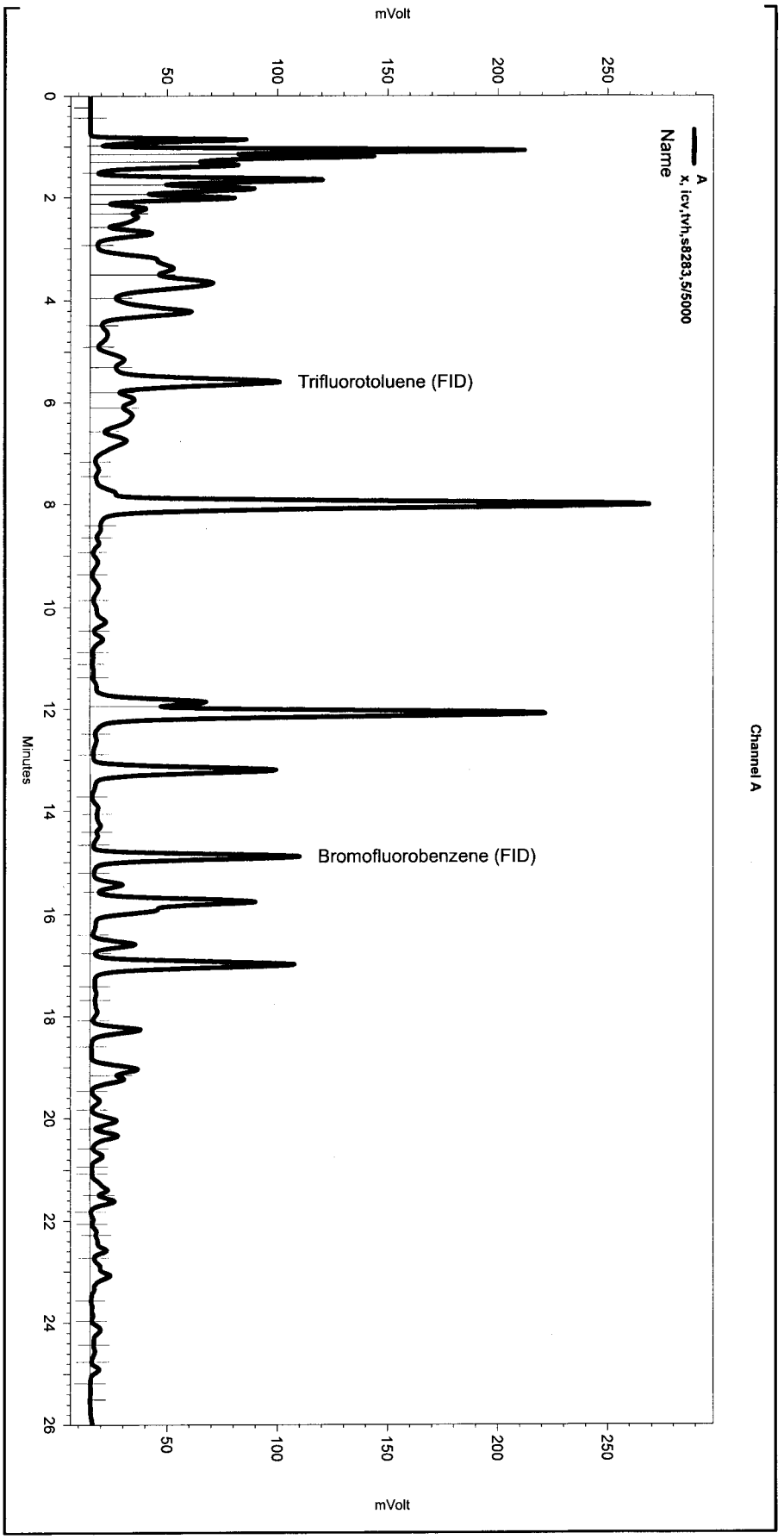
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.767	233400	150.171
Benzene	3.183	3.166	419340	129.803
Trifluorotoluene (PID)	4.500	4.500	659712	511.148
Toluene	6.516	6.500	2630380	810.180
Ethylbenzene	10.133	10.116	414621	162.430
m,p-Xylenes	10.483	10.483	2101462	631.384
o-Xylene	11.349	11.316	719008	254.212
Bromofluorobenzene (PID)	12.249	12.233	1555568	429.625

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**
Sample Name: **x, icv,tvh,s8283,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_023**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe066.met

Software Version 3.1.7
Run Date: 3/7/2008 7:16:22 AM
Analysis Date: 3/7/2008 9:25:06 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\066_023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\166.seq**
Sample Name: **cmark,s6383,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\166_028**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\CM145.met

Software Version 3.1.7
Run Date: 6/16/2007 6:17:02 AM
Analysis Date: 6/18/2007 10:40:28 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

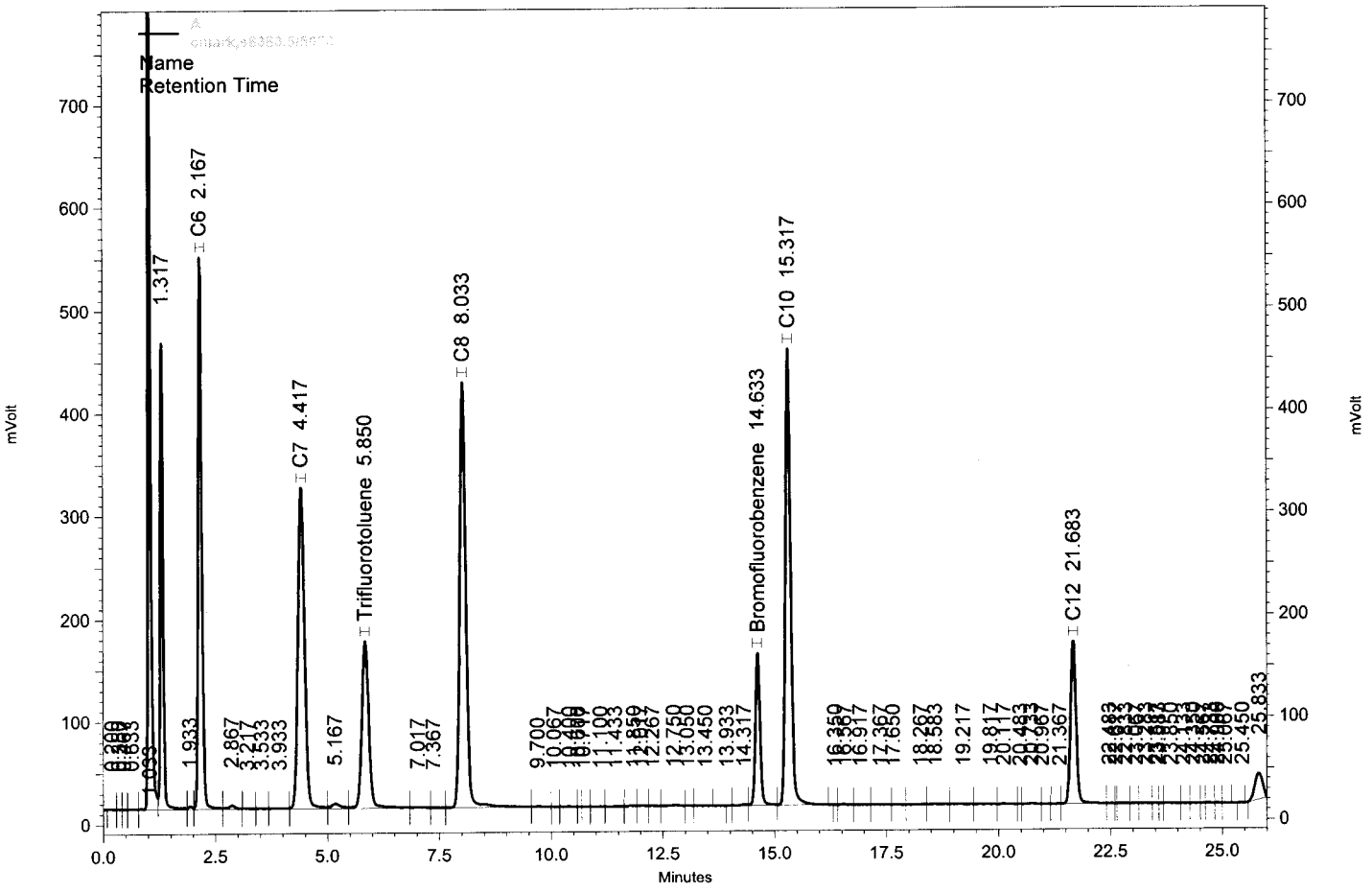
GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
C6	2.167	2.183	3128010	0.000
C7	4.417	4.433	3209112	0.000
Trifluorotoluene	5.850	5.850	1771265	0.000
C8	8.033	8.033	3993723	0.000
Bromofluorobenzene	14.633	14.617	1088933	0.000
C10	15.317	15.317	3652984	0.000
C12	21.683	21.683	1385324	0.000



Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**
Sample Name: **x,cmark,s8201,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_013**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\CM040.met

Software Version 3.1.7
Run Date: 3/7/2008 1:16:38 AM
Analysis Date: 3/7/2008 7:50:58 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

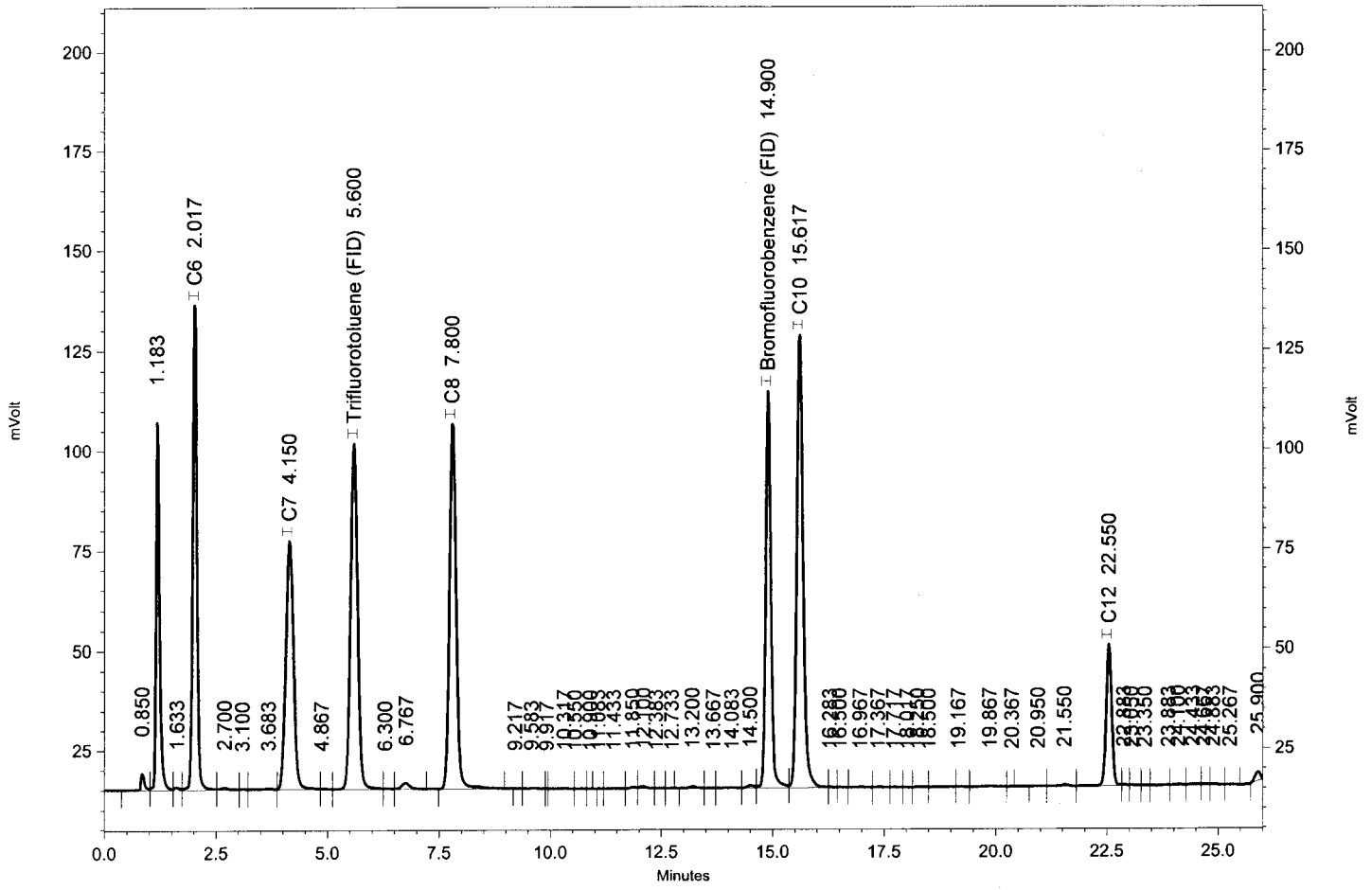
GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
C6	2.017	2.000	793412	0.000
C7	4.150	4.100	747134	0.000
Trifluorotoluene (FID)	5.600	5.567	964308	0.000
C8	7.800	7.750	968818	0.000
Bromofluorobenzene (FID)	14.900	14.850	816883	0.000
C10	15.617	15.567	1135284	0.000
C12	22.550	22.500	311539	0.000



Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\066.seq**
Sample Name: **x,cmark,s8201,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\066_013**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\CM066.met

Software Version 3.1.7
Run Date: 3/7/2008 1:16:38 AM
Analysis Date: 3/7/2008 9:24:21 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

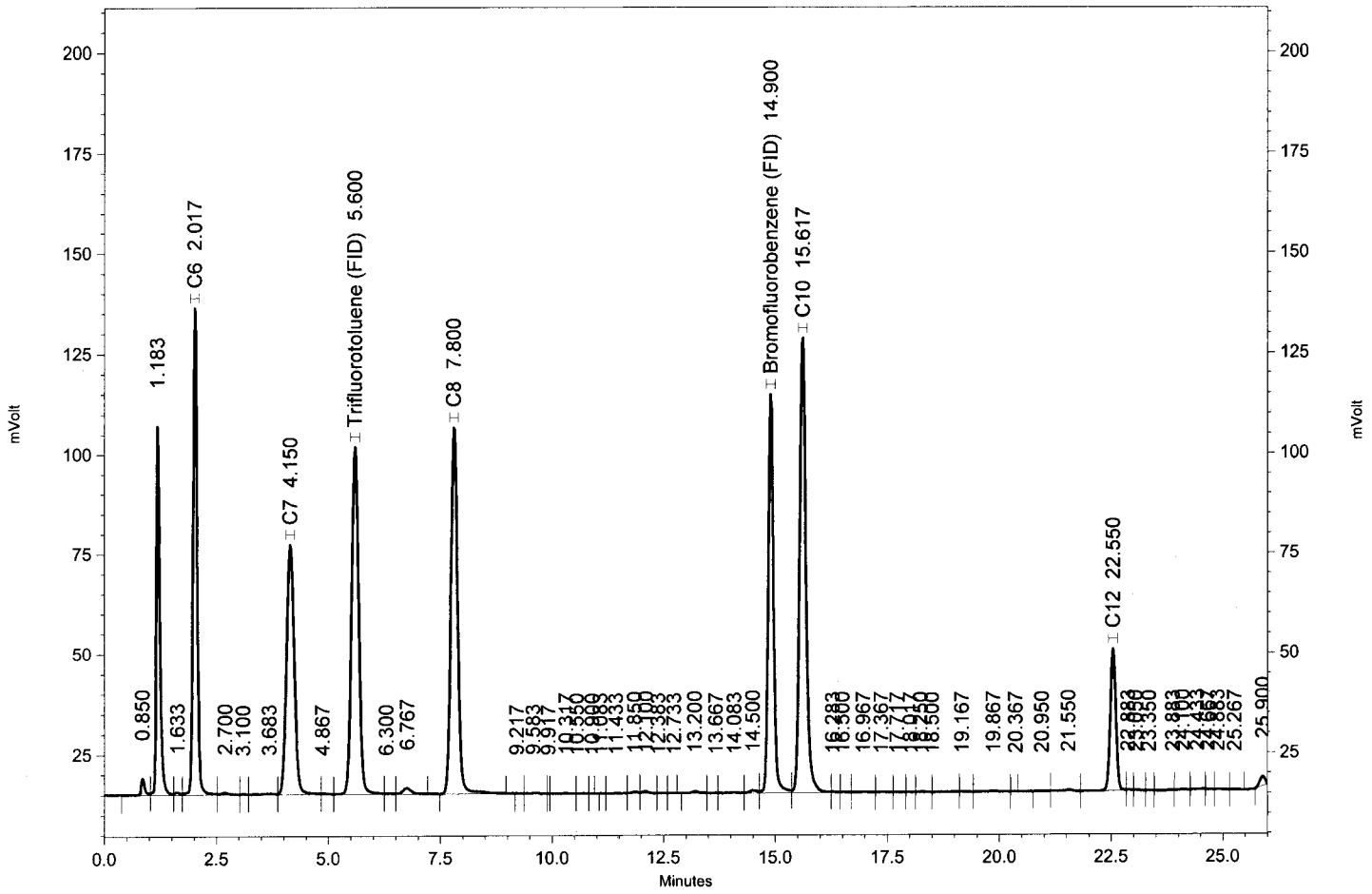
GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
C6	2.017	2.017	793412	0.000
C7	4.150	4.150	747134	0.000
Trifluorotoluene (FID)	5.600	5.600	964308	0.000
C8	7.800	7.800	968818	0.000
Bromofluorobenzene (FID)	14.900	14.900	816883	0.000
C10	15.617	15.617	1135284	0.000
C12	22.550	22.550	311539	0.000



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308117094039 File : 081_039 Time : 22-MAR-2008 19:36
Standards: S8718 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	4152.9	10000	9443	ng	-6	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	5731.2	504.0	793.8	ng	**58**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2639.3	504.0	597.7	ng	**19**	15	c+

MRC 03/24/08 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

MRC 03/24/08 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: MRC Date: 03/24/08 Reviewer: LH Date: 03/25/08

+=high bias c=CCV

308117094039

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_039**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 7:36:00 PM
Analysis Date: 3/24/2008 10:12:07 AM
Sample Amount: 1.03 Multiplier: 1.03
Vial & pH or Core ID: a

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.783	5.833	2888503	793.846
Bromofluorobenzene (FID)	14.567	14.600	1330184	597.703
GAS:6-8			20891152	0.000
GAS:6-10			43371084	9484.434
GAS:8-10			22479936	0.000
GAS:6-12			55309464	9767.235
GAS:7-12			41529128	9443.139
JP4:7-12			41529128	8999.742

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.100	2.050	722904	109.849
Benzene	4.400	4.433	2480577	117.062
Trifluorotoluene (PID)	5.800	5.833	2729766	538.354
Toluene	8.150	8.167	14200348	709.337
Ethylbenzene	11.783	11.800	2354366	141.930
m,p-Xylenes	11.983	12.017	12068388	565.744
o-Xylene	13.017	13.050	3846275	228.615
Bromofluorobenzene (PID)	14.567	14.600	4725330	456.153

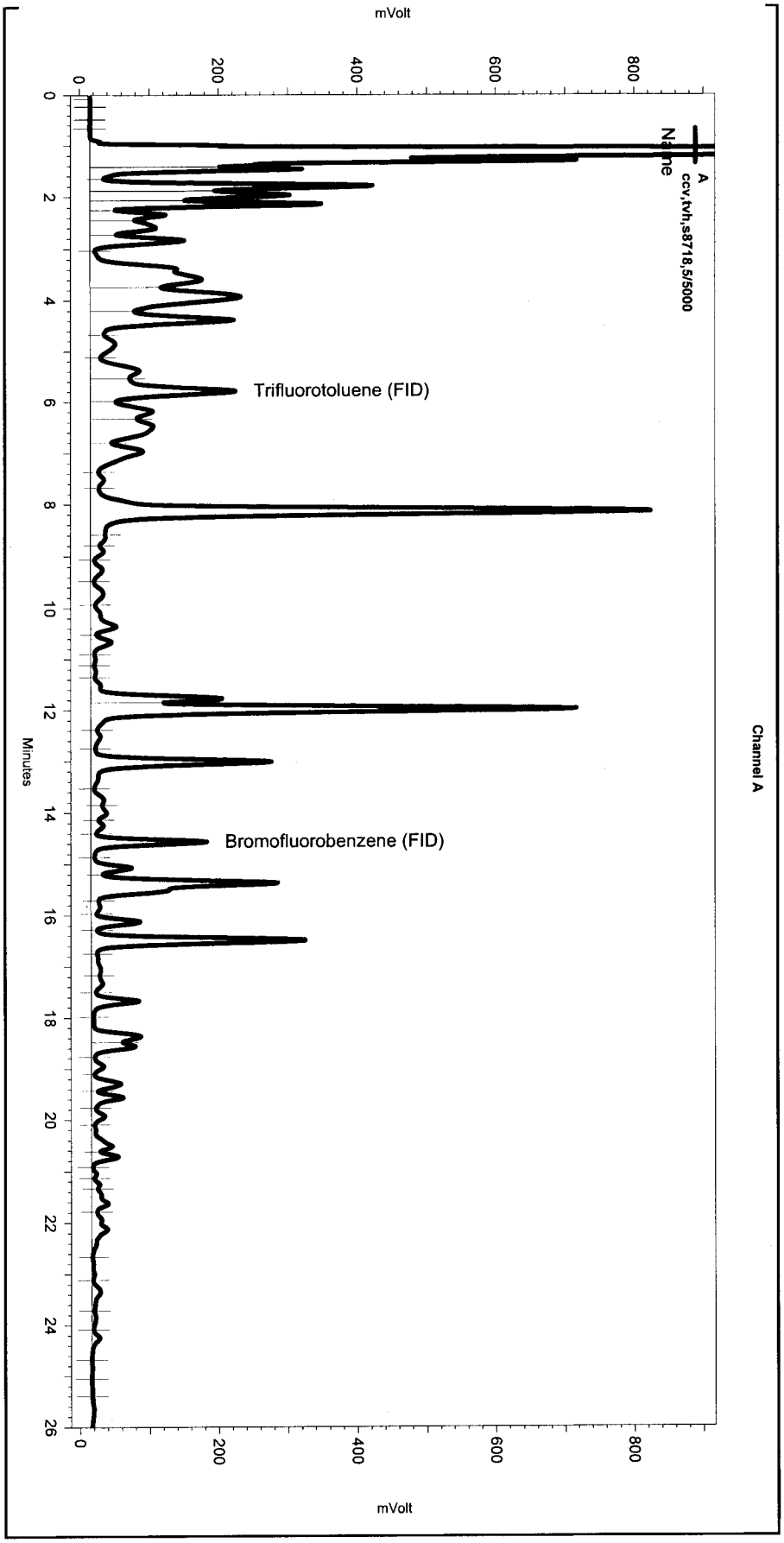
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	20897	113.749
Benzene	3.983	4.016	94513	157.278
Trifluorotoluene (PID)	5.466	5.500	126470	838.987
Toluene	7.533	7.566	594988	1076.350
Ethylbenzene	11.033	11.066	95715	197.903
m,p-Xylenes	11.366	11.399	462445	763.011
o-Xylene	12.166	12.199	144517	298.662
Bromofluorobenzene (PID)	13.016	13.032	175640	579.044

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_039**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/22/2008 7:36:00 PM
Analysis Date: 3/24/2008 10:12:07 AM
Sample Amount: 1.03 Multiplier: 1.03
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_039

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : QC434087 IDF : 1.0
Seqnum : 308117094052.1 File : 081_052 Time : 23-MAR-2008 03:52
Standards: S8718 (2000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3772.6	5000	4289	ng	-14	15	u
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	3899.0	504.0	540.1	ng	7	15	u
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2127.4	504.0	481.8	ng	-4	15	u

MRC 03/24/08 : Integrations checked by MRC. [general version]

CP 03/24/08 : sample name should read: ccv/lcs,qc434087,136270,s8718,2.5/5000. [general version]

Analyst: CP Date: 03/24/08 Reviewer: LH Date: 03/24/08

u=use

308117094052.1

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_052**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/23/2008 3:52:23 AM
Analysis Date: 3/24/2008 10:26:16 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.767	5.833	1965097	540.067
Bromofluorobenzene (FID)	14.533	14.600	1072209	481.785
GAS:6-8			9507843	0.000
GAS:6-10			19627402	4292.141
GAS:8-10			10119562	0.000
GAS:6-12			25022794	4418.837
GAS:7-12			18862786	4289.131
JP4:7-12			18862786	4087.738

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.017	2.050	361860	54.987
Benzene	4.383	4.433	1042507	49.197
Trifluorotoluene (PID)	5.767	5.833	1988496	392.163
Toluene	8.117	8.167	5941127	296.772
Ethylbenzene	11.750	11.800	1062161	64.031
m,p-Xylenes	11.950	12.017	5056442	237.037
o-Xylene	12.983	13.050	1645503	97.806
Bromofluorobenzene (PID)	14.533	14.600	3796989	366.537

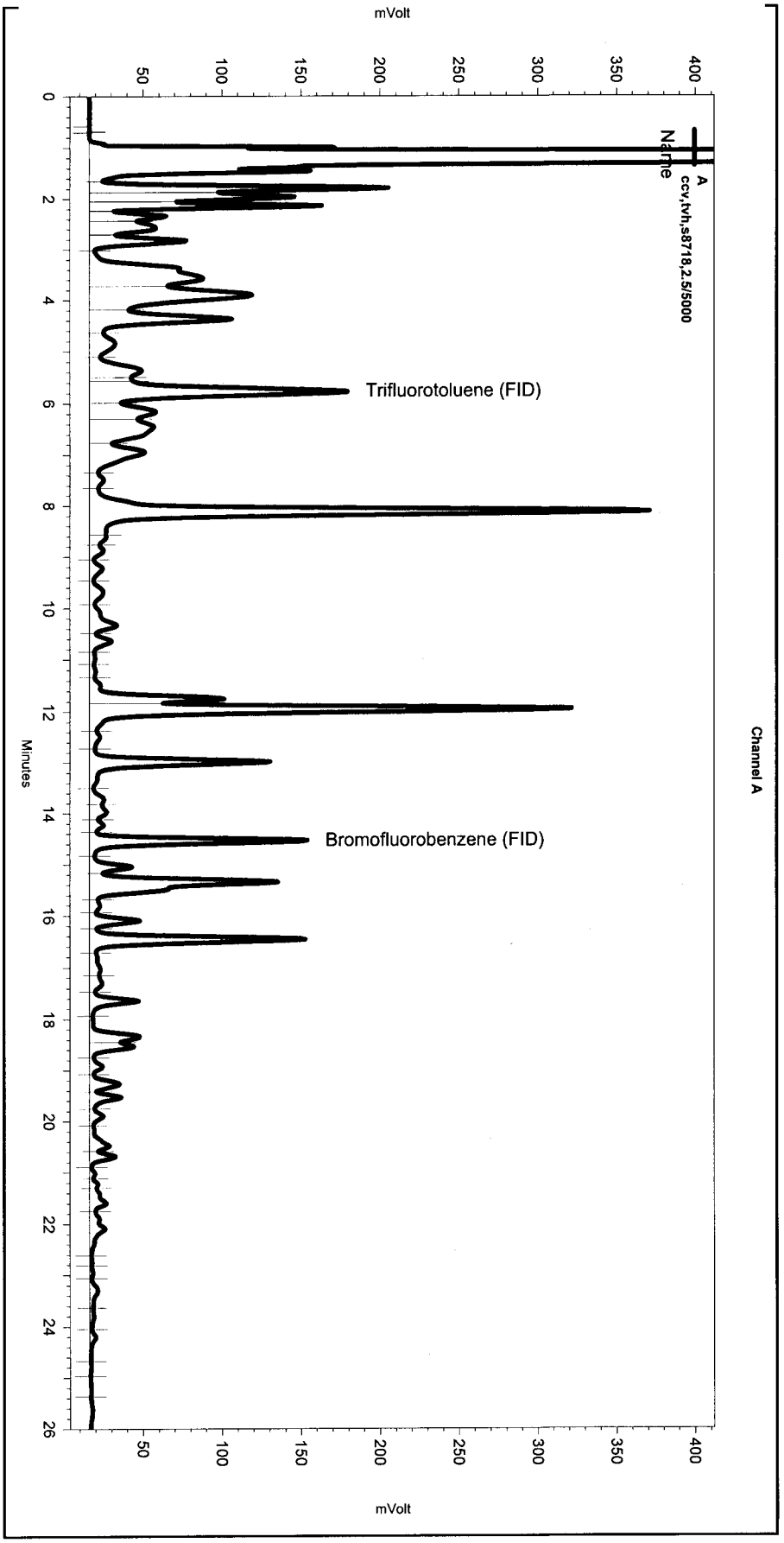
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	10031	54.602
Benzene	3.966	4.016	34264	57.018
Trifluorotoluene (PID)	5.450	5.500	77778	515.970
Toluene	7.516	7.566	222346	402.230
Ethylbenzene	10.999	11.066	36459	75.383
m,p-Xylenes	11.333	11.399	180737	298.207
o-Xylene	12.133	12.199	55885	115.493
Bromofluorobenzene (PID)	12.983	13.032	130640	430.689

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_052**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/23/2008 3:52:23 AM
Analysis Date: 3/24/2008 10:26:16 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_052

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Horizontal Baseline	0.742	24.988	0
Yes	Split Peak	5.572	0	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308117094065 File : 081_065 Time : 23-MAR-2008 12:10
Standards: S8718 (666.7X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3849.5	15000	13130	ng	-12	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	4700.3	504.0	651.1	ng	**29**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2304.3	504.0	521.8	ng	4	15	

MRC 03/24/08 [Trifluorotoluene (FID) A]: Passes control limits.

Analyst: MRC Date: 03/24/08 Reviewer: LH Date: 03/25/08

+=high bias c=CCV

308117094065

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,7.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_065**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/23/2008 12:10:13 PM
Analysis Date: 3/24/2008 11:37:37 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.783	5.833	2368952	651.058
Bromofluorobenzene (FID)	14.550	14.600	1161364	521.846
GAS:6-8			30917720	0.000
GAS:6-10			61909992	13538.541
GAS:8-10			30992276	0.000
GAS:6-12			77730880	13726.689
GAS:7-12			57742732	13129.886
JP4:7-12			57742732	12513.380

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.100	2.050	1057173	160.643
Benzene	4.383	4.433	3583345	169.103
Trifluorotoluene (PID)	5.783	5.833	2616158	515.948
Toluene	8.133	8.167	19486629	973.398
Ethylbenzene	11.767	11.800	3487499	210.239
m,p-Xylenes	11.983	12.017	16088787	754.213
o-Xylene	13.000	13.050	5203121	309.264
Bromofluorobenzene (PID)	14.550	14.600	3971422	383.375

Channel C: RTX-1 PID

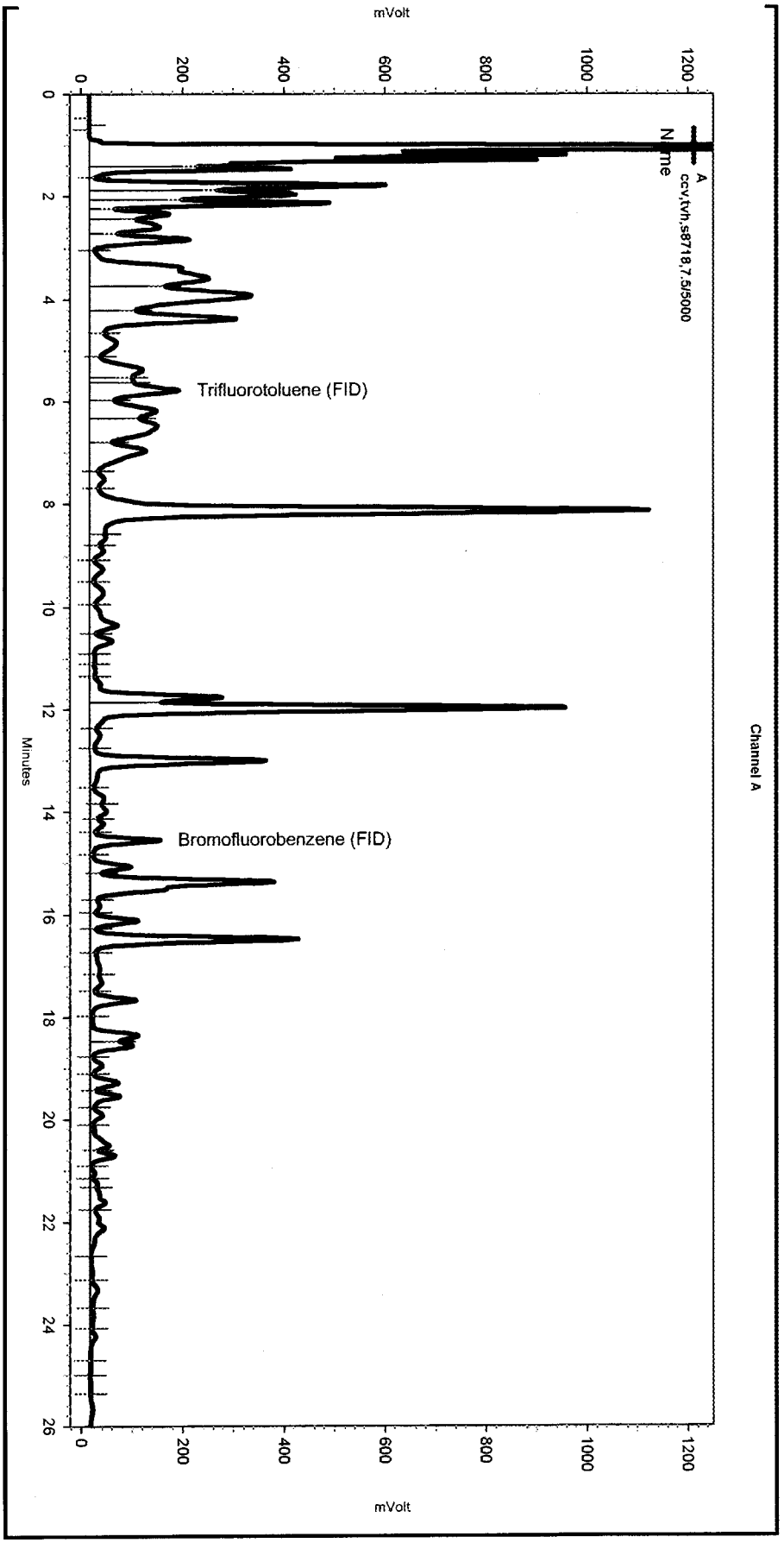
C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.350	2.333	28654	155.973
Benzene	3.966	4.016	124943	207.917
Trifluorotoluene (PID)	5.466	5.500	95962	636.600
Toluene	7.516	7.566	751901	1360.210
Ethylbenzene	11.016	11.066	129280	267.302
m,p-Xylenes	11.349	11.399	588634	971.216
o-Xylene	12.149	12.199	186612	385.656
Bromofluorobenzene (PID)	12.983	13.032	142127	468.559

: 02157

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,7.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_065**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/23/2008 12:10:13 PM
Analysis Date: 3/24/2008 11:37:37 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



—< General Method Parameters >—

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_065

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.618	0	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308117094067 File : 081_067 Time : 24-MAR-2008 13:05
Standards: S8718 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3825.5	10000	8699	ng	-13	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	5225.6	504.0	723.8	ng	**44**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2422.5	504.0	548.6	ng	9	15	

MRC 03/24/08 [Trifluorotoluene (FID) A]: Fails high due to coelution with standard.

MRC 03/24/08 : PID surrogates are not applicable.

Analyst: MRC Date: 03/24/08 Reviewer: LH Date: 03/25/08

+=high bias c=CCV

308117094067

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,5/5000, new opening ccvs to stay within 12hrwindow**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_067**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/24/2008 1:05:44 PM
Analysis Date: 3/24/2008 1:38:17 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.817	5.833	2633716	723.823
Bromofluorobenzene (FID)	14.567	14.600	1220958	548.624
GAS:6-8			19254124	0.000
GAS:6-10			40167280	8783.820
GAS:8-10			20913152	0.000
GAS:6-12			50934776	8994.695
GAS:7-12			38255216	8698.698
JP4:7-12			38255216	8290.256

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		2.050		0.000 BDL
Benzene	4.433	4.433	2297321	108.413
Trifluorotoluene (PID)	5.817	5.833	2391203	471.583
Toluene	8.167	8.167	13098447	654.295
Ethylbenzene	11.783	11.800	2220608	133.866
m,p-Xylenes	12.000	12.017	11064043	518.662
o-Xylene	13.017	13.050	3517775	209.090
Bromofluorobenzene (PID)	14.567	14.600	4348896	419.814

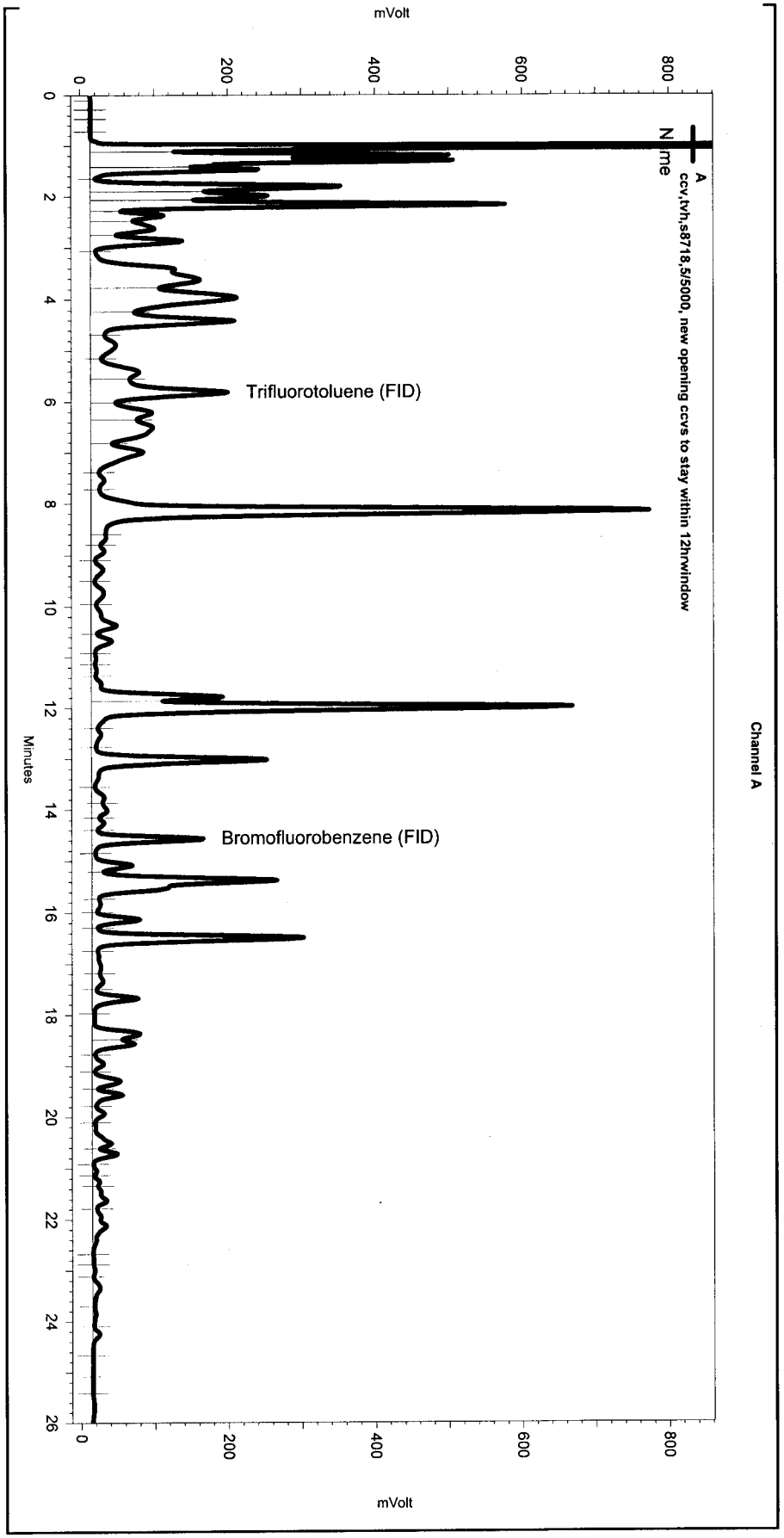
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.367	2.333	42223	229.834
Benzene	4.000	4.016	77511	128.985
Trifluorotoluene (PID)	5.483	5.500	102898	682.613
Toluene	7.533	7.566	510253	923.062
Ethylbenzene	11.033	11.066	85239	176.242
m,p-Xylenes	11.349	11.399	406171	670.162
o-Xylene	12.149	12.199	128199	264.939
Bromofluorobenzene (PID)	12.999	13.032	153534	506.165

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,5/5000, new opening ccvs to stay within 12hrwindow**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_067**
Instrument: GC04 Vial: N/A Operator: Tvh 3. Analyst (lims2k3\tvh3)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/24/2008 1:05:44 PM
Analysis Date: 3/24/2008 1:38:17 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_067

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC04 Run Name : TVH IDF : 1.0
Seqnum : 308117094075 File : 081_075 Time : 24-MAR-2008 19:47
Standards: S8718 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	307240439001	16-JUN-2007	4397.8	3985.0	10000	9061	ng	-9	15	
Trifluorotoluene (FID)	A	308079642001	24-FEB-2008	3638.6	4995.8	504.0	692.0	ng	**37**	15	c+
Bromofluorobenzene (FID)	A	308079642001	24-FEB-2008	2225.5	2440.4	504.0	552.7	ng	10	15	

MRC 03/25/08 [Trifluorotoluene (FID) A]: Passes control limits.

MRC 03/25/08 : PID surrogates are not applicable.

Analyst: MRC Date: 03/25/08 Reviewer: LH Date: 03/25/08

+=high bias c=CCV

308117094075

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq
Sample Name: **ccv,tvh,s8718,5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_075
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/24/2008 7:47:33 PM
Analysis Date: 3/25/2008 6:52:12 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC04

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.817	5.833	2517902	691.994
Bromofluorobenzene (FID)	14.567	14.600	1229985	552.680
GAS:6-8			19080008	0.000
GAS:6-10			40637584	8886.668
GAS:8-10			21557576	0.000
GAS:6-12			52308688	9237.321
GAS:7-12			39850016	9061.334
JP4:7-12			39850016	8635.865

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.033	2.050	693679	105.408
Benzene	4.417	4.433	2280184	107.605
Trifluorotoluene (PID)	5.817	5.833	2283401	450.323
Toluene	8.150	8.167	13233720	661.052
Ethylbenzene	11.783	11.800	2265395	136.566
m,p-Xylenes	12.000	12.017	11297170	529.591
o-Xylene	13.017	13.050	3614061	214.813
Bromofluorobenzene (PID)	14.567	14.600	4239241	409.229

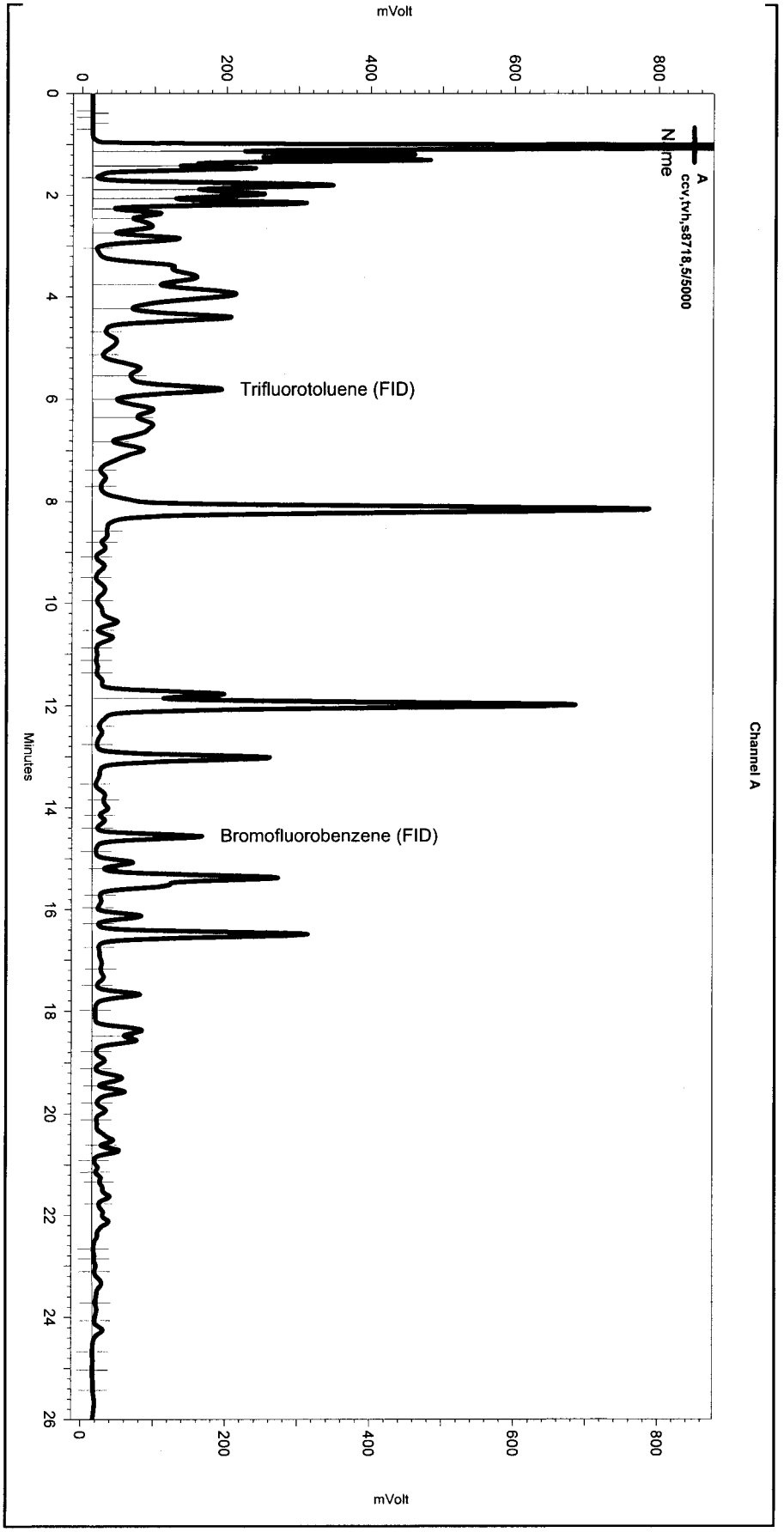
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.367	2.333	17945	97.681
Benzene	3.983	4.016	85601	142.448
Trifluorotoluene (PID)	5.466	5.500	108526	719.948
Toluene	7.533	7.566	579775	1048.829
Ethylbenzene	11.033	11.066	92174	190.581
m,p-Xylenes	11.349	11.399	456654	753.456
o-Xylene	12.166	12.199	141887	293.227
Bromofluorobenzene (PID)	12.999	13.032	165242	544.764

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq**
Sample Name: **ccv,tvh,s8718,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\081_075**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055.met

Software Version 3.1.7
Run Date: 3/24/2008 7:47:33 PM
Analysis Date: 3/25/2008 6:52:12 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081_075

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC433866 IDF : 1.0
Seqnum : 328115877008.1 File : 080_008 Time : 20-MAR-2008 17:51
Standards: S8447 (2000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	328095970001	07-MAR-2008	1154.3	1302.0	5000	5639	ng	13	15	u
Trifluorotoluene (FID)	A	328028223001	19-JAN-2008	2384.3	2301.5	504.0	486.5	ng	-3	15	u
Bromofluorobenzene (FID)	A	328028223001	19-JAN-2008	1942.6	1677.1	504.0	435.1	ng	-14	15	u

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

328115877008.1

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq Sample Name: **ccv/lcs,qc433866,136219,s8447,2.5/5000** Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_008 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met	Software Version 3.1.7 Run Date: 3/20/2008 5:51:14 PM Analysis Date: 3/21/2008 8:00:28 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.600	1159972	486.498
Bromofluorobenzene (FID)	14.883	14.900	845260	435.108
GAS:6-8			2351683	0.000
GAS:6-10			5781037	5328.463
GAS:8-10			3429354	0.000
GAS:6-12			7684706	5490.282
GAS:7-12			6509878	5639.438
JP4:7-12			6509878	3872.396

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.833	359289	92.224
Benzene	4.233	4.167	454984	55.370
Trifluorotoluene (PID)	5.600	5.550	1455887	472.355
Toluene	8.017	7.967	2558447	314.554
Ethylbenzene	11.850	11.817	421966	68.526
m,p-Xylenes	12.083	12.033	2182327	254.227
o-Xylene	13.200	13.150	776719	108.793
Bromofluorobenzene (PID)	14.883	14.833	3574029	438.212

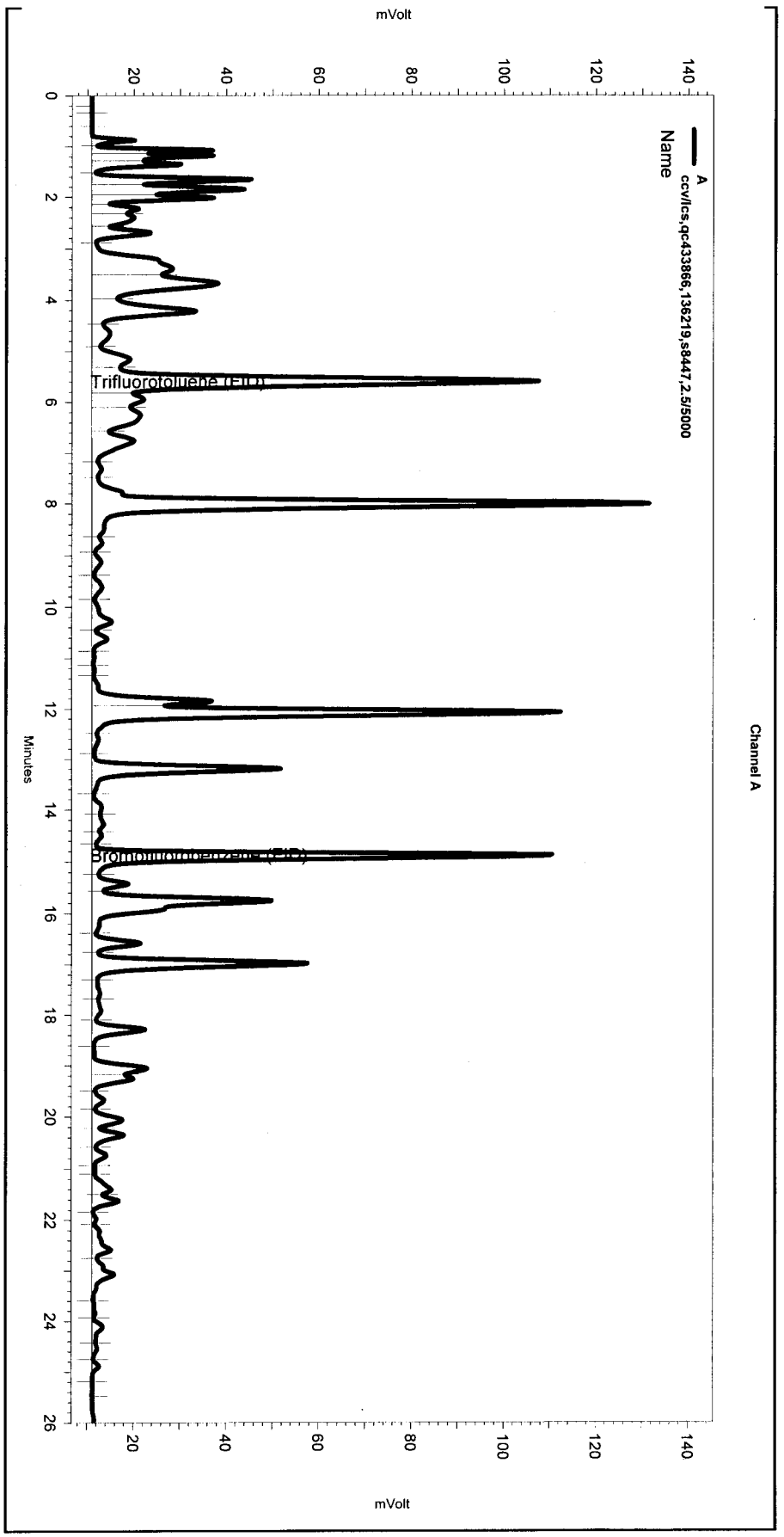
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.750	149545	96.218
Benzene	3.183	3.133	191904	59.402
Trifluorotoluene (PID)	4.516	4.466	723364	560.466
Toluene	6.516	6.483	1248821	384.648
Ethylbenzene	10.133	10.099	184524	72.288
m,p-Xylenes	10.483	10.466	996877	299.512
o-Xylene	11.333	11.316	356003	125.868
Bromofluorobenzene (PID)	12.233	12.216	1691037	467.040

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **ccv/lcs,qc433866,136219,s8447,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_008**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/20/2008 5:51:14 PM
Analysis Date: 3/21/2008 8:00:28 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 328115877017 File : 080_017 Time : 21-MAR-2008 00:43
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	328095970001	07-MAR-2008	1154.3	1235.0	10000	10700	ng	7	15	
Trifluorotoluene (FID)	A	328028223001	19-JAN-2008	2384.3	2557.2	504.0	540.5	ng	7	15	
Bromofluorobenzene (FID)	A	328028223001	19-JAN-2008	1942.6	1846.5	504.0	479.1	ng	-5	15	

PDM 03/21/08 : PID surrogates are not applicable.

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

328115877017

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **ccv,tvh,s8447,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_017**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 12:43:57 AM
Analysis Date: 3/21/2008 11:22:06 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.633	5.600	1288817	540.537
Bromofluorobenzene (FID)	14.917	14.900	930648	479.062
GAS:6-8			4263611	0.000
GAS:6-10			10948253	10091.159
GAS:8-10			6684642	0.000
GAS:6-12			14622599	10447.010
GAS:7-12			12349606	10698.332
JP4:7-12			12349606	7346.153

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.833	426875	109.572
Benzene		4.167		0.000 BDL
Trifluorotoluene (PID)		5.550		0.000 BDL
Toluene		7.967		0.000 BDL
Ethylbenzene	11.883	11.817	787531	127.893
m,p-Xylenes	12.100	12.033	4051995	472.032
o-Xylene	13.217	13.150	1429560	200.235
Bromofluorobenzene (PID)		14.833		0.000 BDL

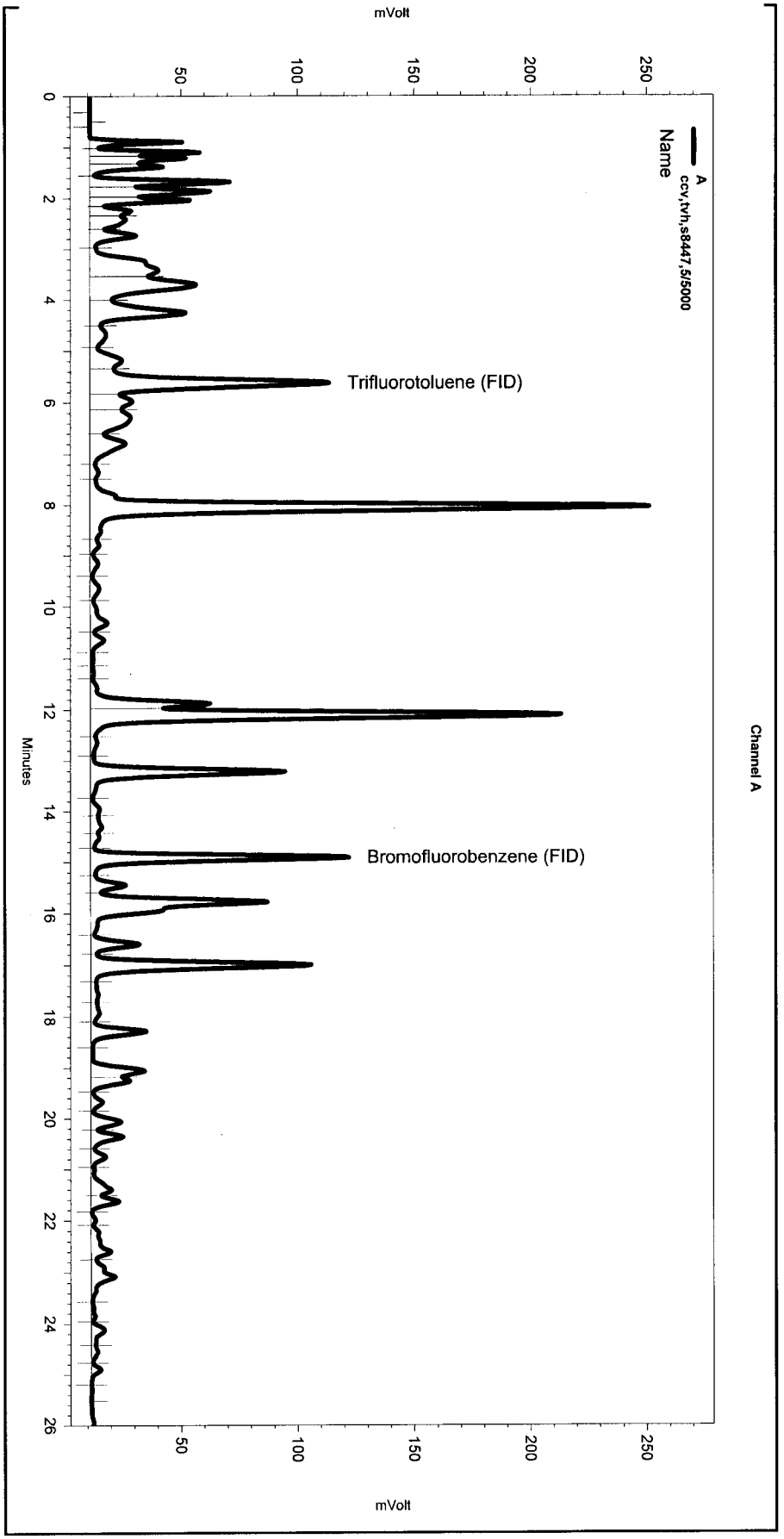
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.800	1.750	177755	114.369
Benzene	3.200	3.133	323711	100.202
Trifluorotoluene (PID)	4.533	4.466	681548	528.066
Toluene	6.533	6.483	2255885	694.832
Ethylbenzene	10.149	10.099	348133	136.383
m,p-Xylenes	10.499	10.466	1848409	555.355
o-Xylene	11.349	11.316	645205	228.118
Bromofluorobenzene (PID)	12.249	12.216	1672541	461.931

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **ccv,tvh,s8447,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_017**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 12:43:57 AM
Analysis Date: 3/21/2008 11:22:06 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 328115877027 File : 080_027 Time : 21-MAR-2008 06:42
Standards: S8447 (666.7X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	328095970001	07-MAR-2008	1154.3	1183.0	15000	15370	ng	2	15	
Trifluorotoluene (FID)	A	328028223001	19-JAN-2008	2384.3	2538.2	504.0	536.5	ng	6	15	
Bromofluorobenzene (FID)	A	328028223001	19-JAN-2008	1942.6	1695.4	504.0	439.8	ng	-13	15	

PDM 03/21/08 : PID surrogates are not applicable.

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

328115877027

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq
Sample Name: **ccv,tvh,s8447,7.5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_027
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 6:42:11 AM
Analysis Date: 3/21/2008 8:01:38 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.600	1279244	536.522
Bromofluorobenzene (FID)	14.900	14.900	854465	439.846
GAS:6-8			5773036	0.000
GAS:6-10			15440467	14231.696
GAS:8-10			9667431	0.000
GAS:6-12			20622320	14733.464
GAS:7-12			17745508	15372.741
JP4:7-12			17745508	10555.899

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.833	591664	151.871
Benzene		4.167		0.000 BDL
Trifluorotoluene (PID)	5.617	5.550	1411202	457.857
Toluene	8.033	7.967	7034390	864.860
Ethylbenzene	11.867	11.817	1161307	188.594
m,p-Xylenes	12.083	12.033	5936849	691.605
o-Xylene	13.200	13.150	2092859	293.142
Bromofluorobenzene (PID)	14.900	14.833	3398706	416.716

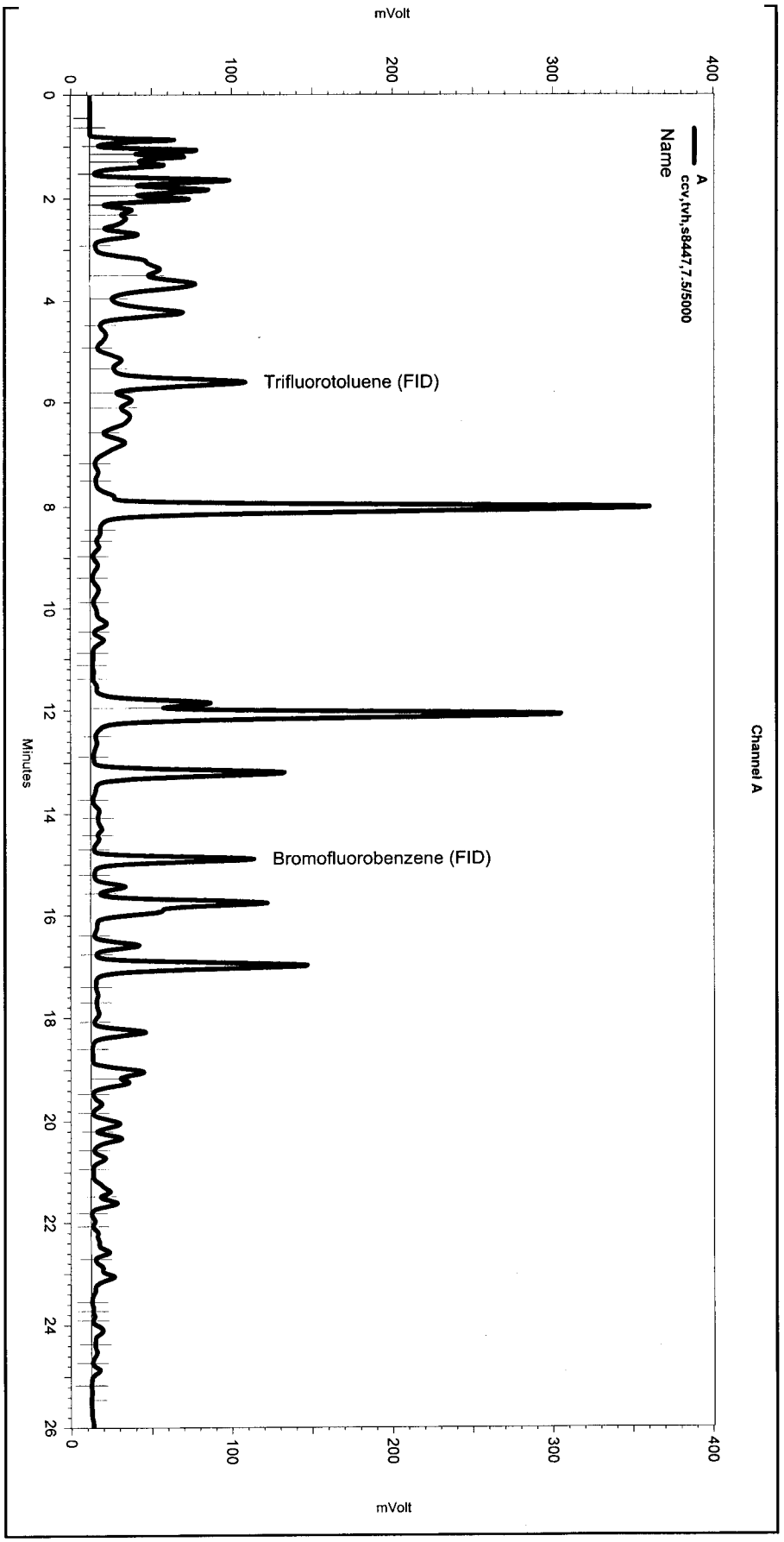
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.783	1.750	262509	168.900
Benzene	3.200	3.133	501120	155.117
Trifluorotoluene (PID)	4.533	4.466	694648	538.216
Toluene	6.533	6.483	3368451	1037.513
Ethylbenzene	10.149	10.099	533218	208.891
m,p-Xylenes	10.499	10.466	2759051	828.957
o-Xylene	11.366	11.316	947728	335.078
Bromofluorobenzene (PID)	12.266	12.216	1553193	428.969

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **ccv,tvh,s8447,7.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_027**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 6:42:11 AM
Analysis Date: 3/21/2008 8:01:38 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
Seqnum : 328115877035 File : 080_035 Time : 21-MAR-2008 13:57
Standards: S8447 (1000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	328095970001	07-MAR-2008	1154.3	1306.0	10000	11310	ng	13	15	
Trifluorotoluene (FID)	A	328028223001	19-JAN-2008	2384.3	2522.8	504.0	533.3	ng	6	15	
Bromofluorobenzene (FID)	A	328028223001	19-JAN-2008	1942.6	1735.5	504.0	450.2	ng	-11	15	

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

328115877035

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **ccv,tvh,s8447,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_035**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 1:57:49 PM
Analysis Date: 3/21/2008 2:56:47 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.633	5.600	1271516	533.281
Bromofluorobenzene (FID)	14.917	14.900	874673	450.249
GAS:6-8			5403559	0.000
GAS:6-10			12587033	11601.646
GAS:8-10			7183474	0.000
GAS:6-12			16162163	11546.940
GAS:7-12			13059559	11313.356
JP4:7-12			13059559	7768.468

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.833	607884	156.034
Benzene		4.167		0.000 BDL
Trifluorotoluene (PID)		5.550		0.000 BDL
Toluene		7.967		0.000 BDL
Ethylbenzene		11.817		0.000 BDL
m,p-Xylenes		12.033		0.000 BDL
o-Xylene		13.150		0.000 BDL
Bromofluorobenzene (PID)		14.833		0.000 BDL

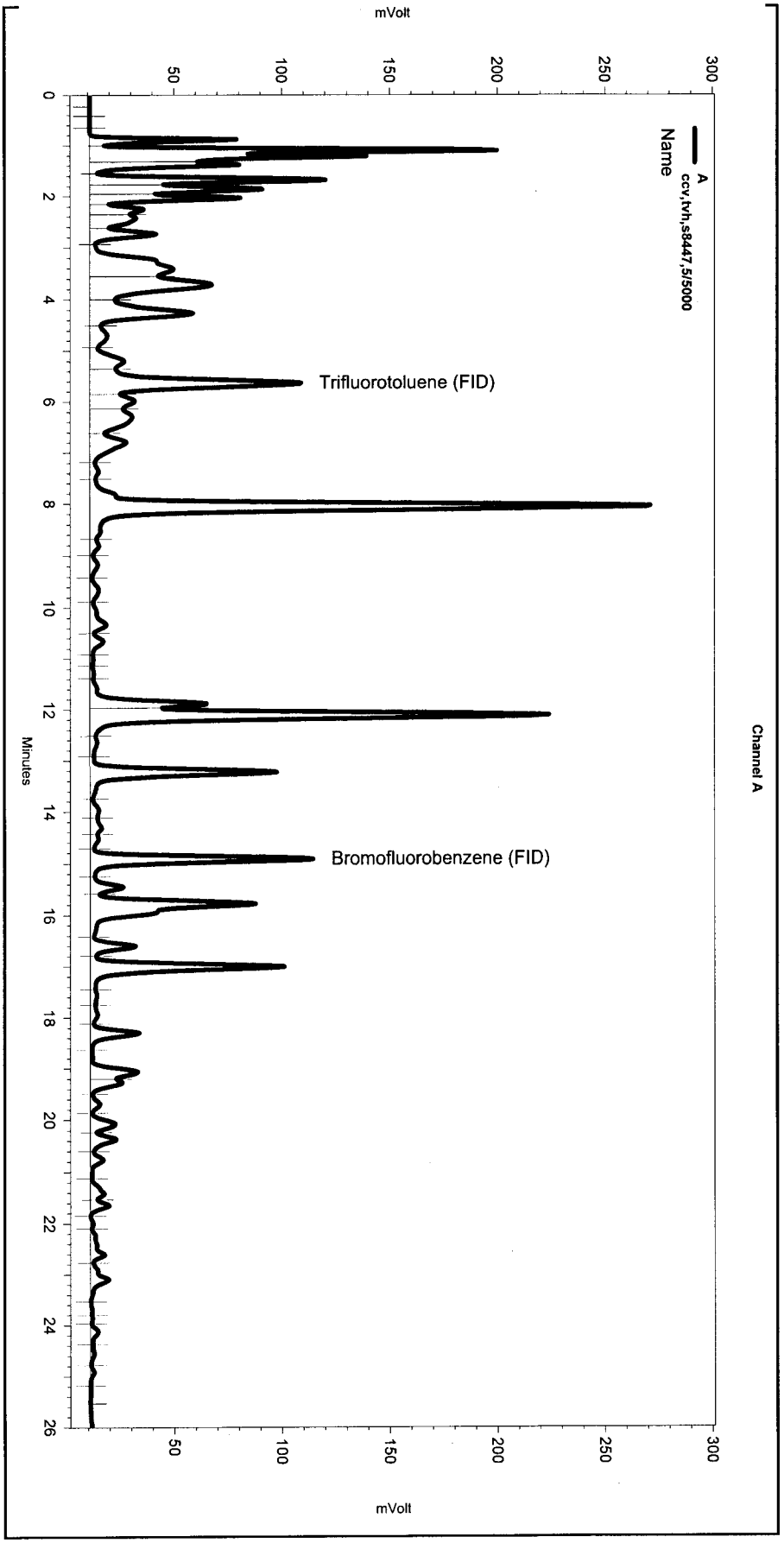
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.800	1.750	245114	157.708
Benzene		3.133		0.000 BDL
Trifluorotoluene (PID)	4.533	4.466	734404	569.019
Toluene	6.550	6.483	2702584	832.420
Ethylbenzene	10.166	10.099	444203	174.019
m,p-Xylenes	10.516	10.466	2219713	666.913
o-Xylene	11.366	11.316	814208	287.871
Bromofluorobenzene (PID)	12.266	12.216	1770905	489.098

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\080.seq**
Sample Name: **ccv,tvh,s8447,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\080_035**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe074rtupdate.met

Software Version 3.1.7
Run Date: 3/21/2008 1:57:49 PM
Analysis Date: 3/21/2008 2:56:47 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\080_035

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 202043
ANALYTICAL REPORT
TPH-Extractables by GC

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065-EX1 Presidio Level : IV

Sample ID	Lab ID
1065EX307[6.0]	202043-001
1065EX308[6.0]	202043-002
1065EX309[6.5]	202043-003
1065EX310[7.0]	202043-004
1065EX311[8.5]	202043-005
DUP031908	202043-006
1065EX312[6.0]	202043-007
1065EX313[4.5]	202043-008
1065EX314[5.5]	202043-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/03/2008
Project Manager

Signature: _____ Date: 04/03/2008
Operations Manager

NELAP # 01107CA

00001

Curtis & Tompkins, Ltd.

CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)

Laboratory number:	**202043**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065-EX1 Presidio**
Request Date:	**03/19/08**
Samples Received:	**03/19/08**

TPH-Extractables by GC (EPA 8015B):

Fuel oil C24-C36 was detected between the MDL and the RL in the method blank for batch 136175.

No other analytical problems were encountered.

62.0

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

202043

3835

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065-Ex 1
JOB NO.: 408807.5115.07.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 3/19/08

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) BTEX & naphthalene; TPHd (SGCSM); TPHg (SGCSM); PAHs (8270-SIM) Title 22 Metals	FOR LAB USE ONLY
1005	X		SO	1065EX307[6.0]	SW 5N76E		14	X X X X X	
1025	X		SO	1065EX308[6.0]	SW 50N32E		7	X X X X X	
1040	X		SO	1065EX309[6.5]	SW 30N31E		7	X X X X X	
1105	X		SO	1065EX310[7.0]	SW 12N31E		7	X X X X X	
1125	X		SO	1065EX311[8.5]	B 21N44E		7	X X X X X	
1125	X		SO	DUP031908	B		7	X X X X X	
1150	X		SO	1065EX312[6.0]	B 26N66E		7	X X X X X	
1200	X		SO	1065EX313[4.5]	SW 3N80E		7	X X X X X	
1215	X		SO	1065EX314[5.5]	SW 29N71E		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	3/19/08 1230		3/19/08 1230			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS: Lvl 3 Data Validation
48-hr TAT

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

Anna Pajarillo

From: "Carlyon, Kristen" <KACARLYON@mactec.com>
To: "Anna M. Pajarillo" <anna@ctberk.com>
Cc: "Hart, Mary" <MCHART@mactec.com>; "Heassler, Mary Jo" <MHeassler@mactec.com>
Sent: Friday, March 21, 2008 1:06 PM
Subject: RE: 4084075115 - C&T Login Summary (202043)

Anna,

Please change this job to a level IV.

Kristen

From: Anna M. Pajarillo [mailto:anna@ctberk.com]
Sent: Friday, March 21, 2008 11:56 AM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Evans, Kathleen; Hart, Mary; Albrecht, Frederic
Subject: 4084075115 - C&T Login Summary (202043)

Status: Results will be emailed late today. TVH gas department is running on hold times, but are trying to fit these in today. I may not have ending CCVs, so results will be draft. -Anna

C&T Login Summary for 202043

Project: 4084075115 **Site:** Bldg 1065-EX1 Presidio **Lab Login #:** 202043 **Report Due:** 03/21/08 **PO#:** 200704465 **C&T Proj Mgr:** Anna M. Pajarillo	**Report To:** Mactec, Inc. 5341 Old Redwood Hwy Suite 300 Petaluma, CA 94954 ATTN: Mary Jo Heassler (707) 793-3800	**Bill To:** Mactec, Inc. 1105 Sanctu Suite 300 Alpharetta, (ATTN: Acc (415) 278-2

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	
1065EX307[6.0]	001	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		MS/MSD
				Soil	E8260		MS/MSD
				Soil	ETVH		MS/MSD
				Soil	MOISTURE		MS/MSD
				Soil	T26 MET		MS/MSD
				Soil	TEHM		MS/MSD, S.GEL
1065EX308[6.0]	002	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login #202043 Date Received 3/19/08 Number of coolers 1
Client MACTEC Project BUILDING 1065-EX1

Date Opened 3/19/08 By (print) M. VILLANUEVA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ (NO)
How many Name Date
2B. Were custody seals intact upon arrival? ..... YES NO (N/A)
3. Were custody papers dry and intact when received? ..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None

☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A

Type of ice used: ☑ WET ☐ BLUE ☐ NONE Temp(°C) NO TEMP BLANK

☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... (YES) NO
If YES, what time were they transferred to freezer? 16:30
9. Did all bottles arrive unbroken/unopened? ..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... YES NO (N/A)
15. Are bubbles absent in VOA samples? ..... YES NO (N/A)
16. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, Who was called? By Date:

COMMENTS

Results & QC Summary

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/19/08
Units:	mg/Kg	Received:	03/19/08
Diln Fac:	1.000	Prepared:	03/19/08
Batch#:	136175		

Field ID: 1065EX307[6.0]
Type: SAMPLE
Lab ID: 202043-001
Basis: dry

Moisture: 22%
Analyzed: 03/21/08
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	0.69 J	1.3	0.27
Fuel Oil C24-C36	5.3 J	6.4	0.84

Surrogate	%REC	Limits
Hexacosane	86	65-135

Field ID: 1065EX308[6.0]
Type: SAMPLE
Lab ID: 202043-002
Basis: dry

Moisture: 15%
Analyzed: 03/21/08
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	1.7 Y	1.2	0.24
Fuel Oil C24-C36	5.9	5.8	0.77

Surrogate	%REC	Limits
Hexacosane	80	65-135

Field ID: 1065EX309[6.5]
Type: SAMPLE
Lab ID: 202043-003
Basis: dry

Moisture: 16%
Analyzed: 03/21/08
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	0.57 J	1.2	0.25
Fuel Oil C24-C36	1.2 J	6.0	0.78

Surrogate	%REC	Limits
Hexacosane	74	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/19/08
Units:	mg/Kg	Received:	03/19/08
Diln Fac:	1.000	Prepared:	03/19/08
Batch#:	136175		

Field ID:	1065EX310[7.0]	Moisture:	16%
Type:	SAMPLE	Analyzed:	03/21/08
Lab ID:	202043-004	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	0.27 J	1.2	0.25
Fuel Oil C24-C36	ND	5.9	0.78

Surrogate	%REC	Limits
Hexacosane	75	65-135

Field ID:	1065EX311[8.5]	Moisture:	21%
Type:	SAMPLE	Analyzed:	03/21/08
Lab ID:	202043-005	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	11 Y	1.3	0.26
Fuel Oil C24-C36	73	6.3	0.82

Surrogate	%REC	Limits
Hexacosane	76	65-135

Field ID:	DUP031908	Moisture:	21%
Type:	SAMPLE	Analyzed:	03/21/08
Lab ID:	202043-006	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	0.47 J	1.3	0.26
Fuel Oil C24-C36	2.9 J	6.3	0.83

Surrogate	%REC	Limits
Hexacosane	93	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/19/08
Units:	mg/Kg	Received:	03/19/08
Diln Fac:	1.000	Prepared:	03/19/08
Batch#:	136175		

Field ID:	1065EX312[6.0]	Moisture:	16%
Type:	SAMPLE	Analyzed:	03/21/08
Lab ID:	202043-007	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	0.49 J	1.2	0.25
Fuel Oil C24-C36	2.9 J	5.9	0.77

Surrogate	%REC	Limits
Hexacosane	65	65-135

Field ID:	1065EX313[4.5]	Moisture:	15%
Type:	SAMPLE	Analyzed:	03/21/08
Lab ID:	202043-008	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	200 Y	1.2	0.24
Fuel Oil C24-C36	140	5.9	0.77

Surrogate	%REC	Limits
Hexacosane	79	65-135

Field ID:	1065EX314[5.5]	Moisture:	18%
Type:	SAMPLE	Analyzed:	03/21/08
Lab ID:	202043-009	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	21 Y	1.2	0.20
Fuel Oil C24-C36	180	6.1	0.69

Surrogate	%REC	Limits
Hexacosane	70	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

35.1

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/19/08
Units:	mg/Kg	Received:	03/19/08
Diln Fac:	1.000	Prepared:	03/19/08
Batch#:	136175		

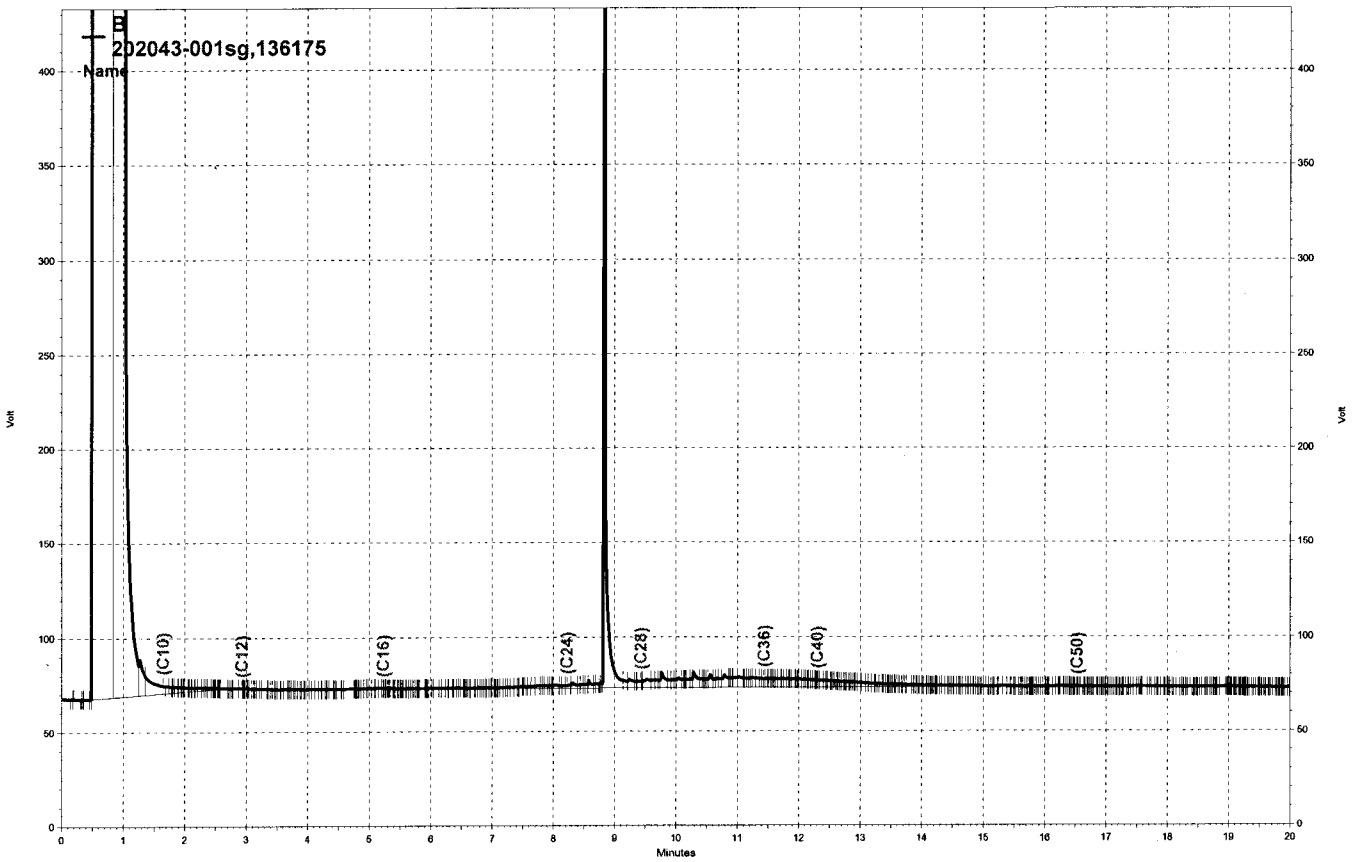
Type:	BLANK	Analyzed:	03/20/08
Lab ID:	QC433676	Cleanup Method:	EPA 3630C
Basis:	as received		

Analyte	Result	RL	MDL
Diesel C12-C24	ND	0.99	0.21
Fuel Oil C24-C36	0.83 J	5.0	0.65

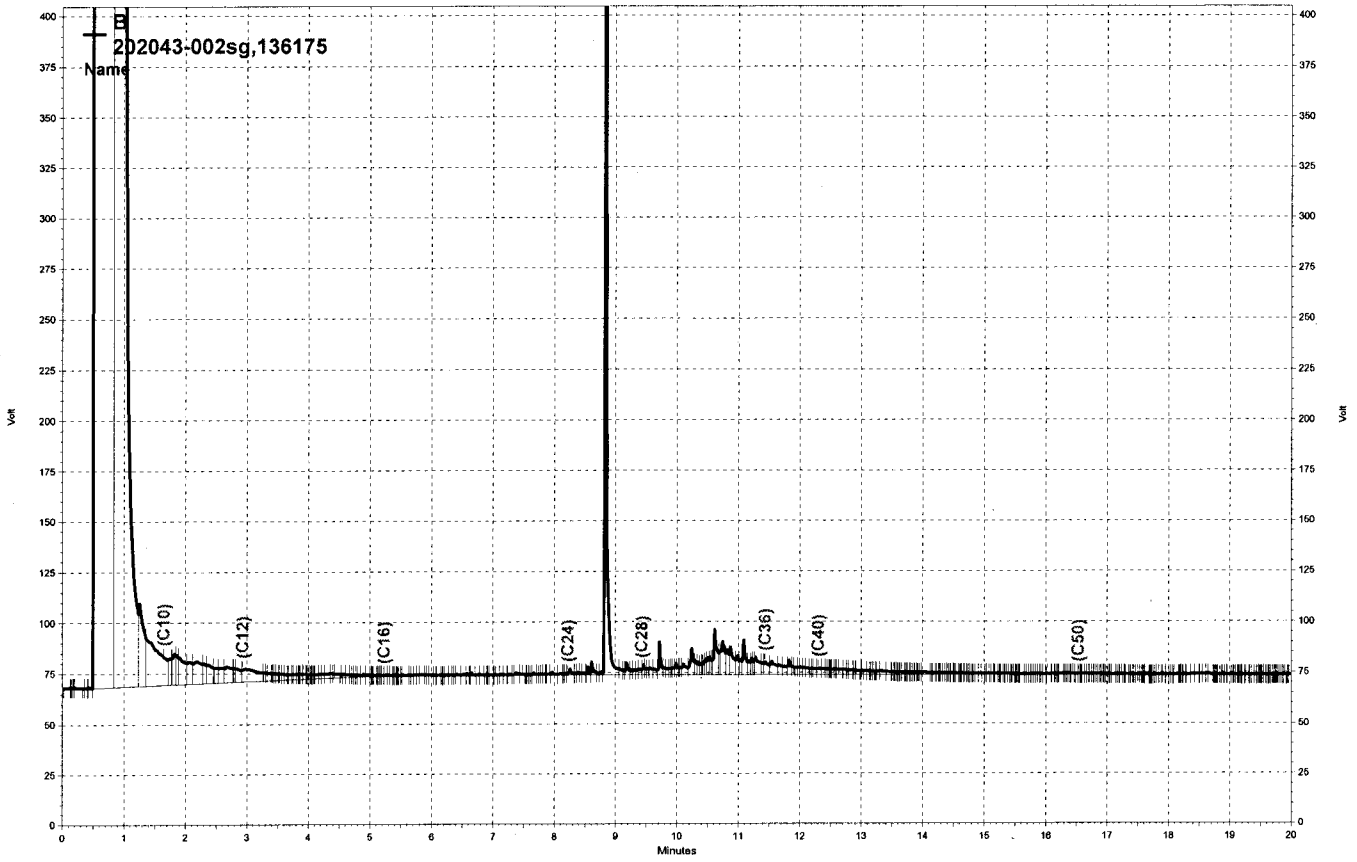
Surrogate	%REC	Limits
Hexacosane	70	65-135

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

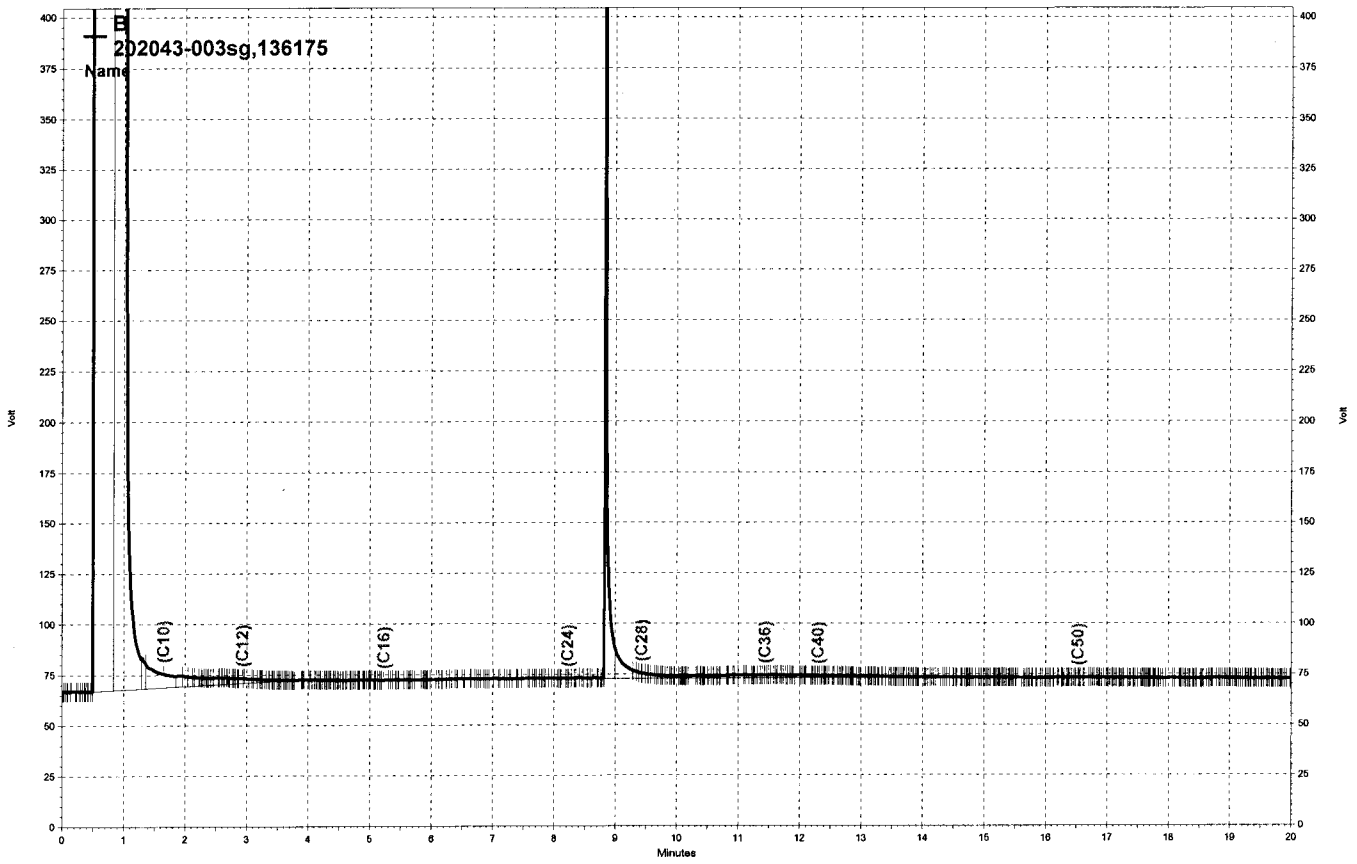
35.1



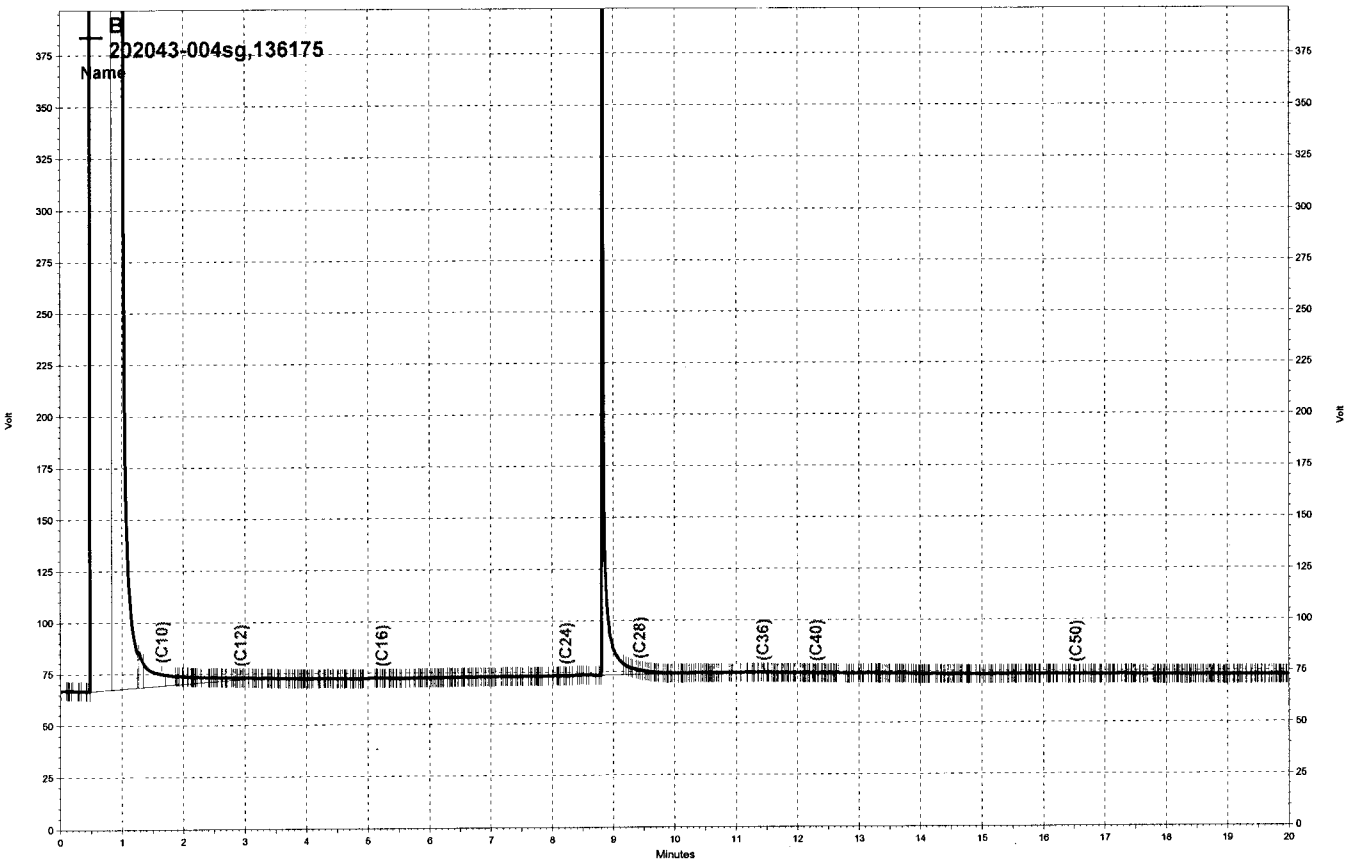
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b090, B



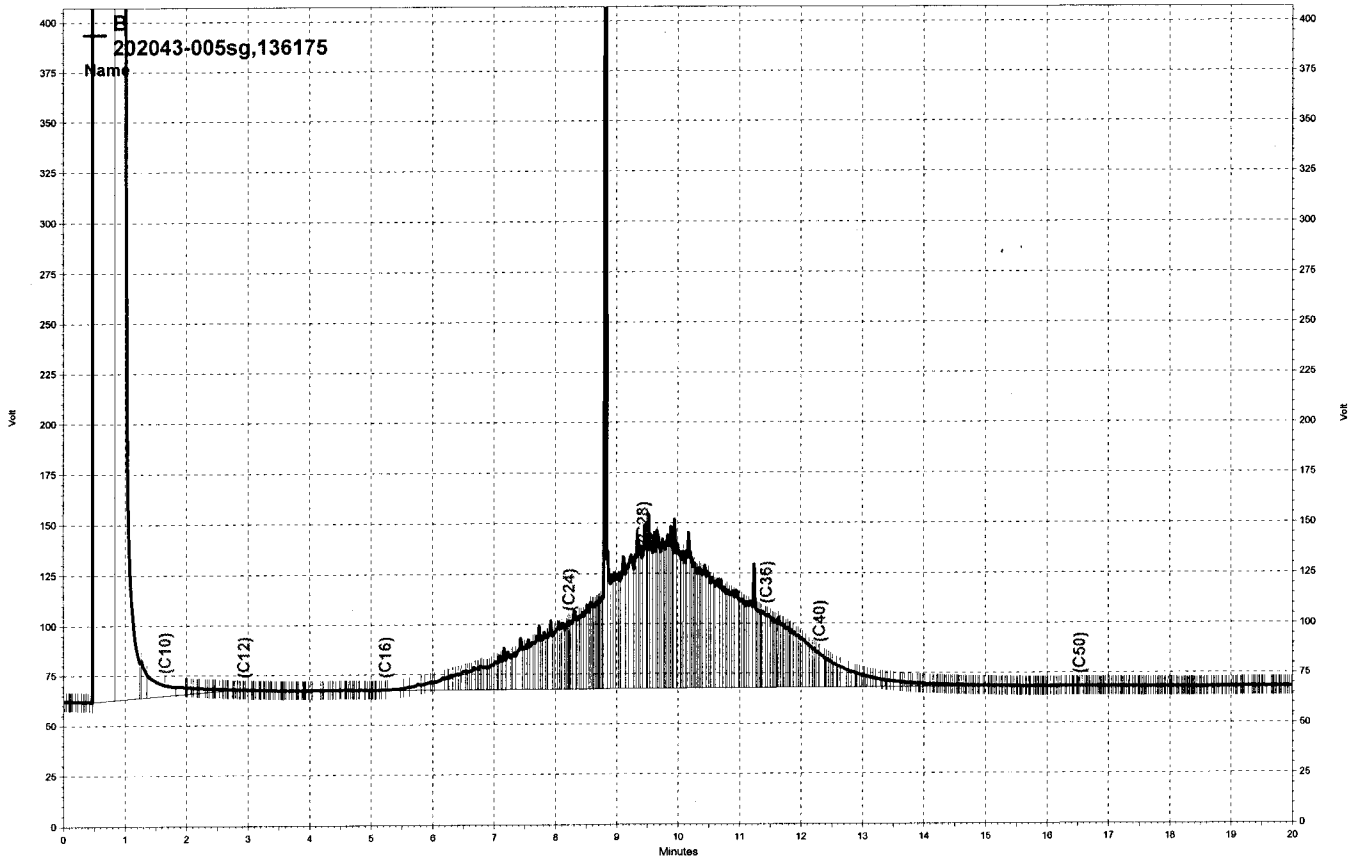
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b094, B



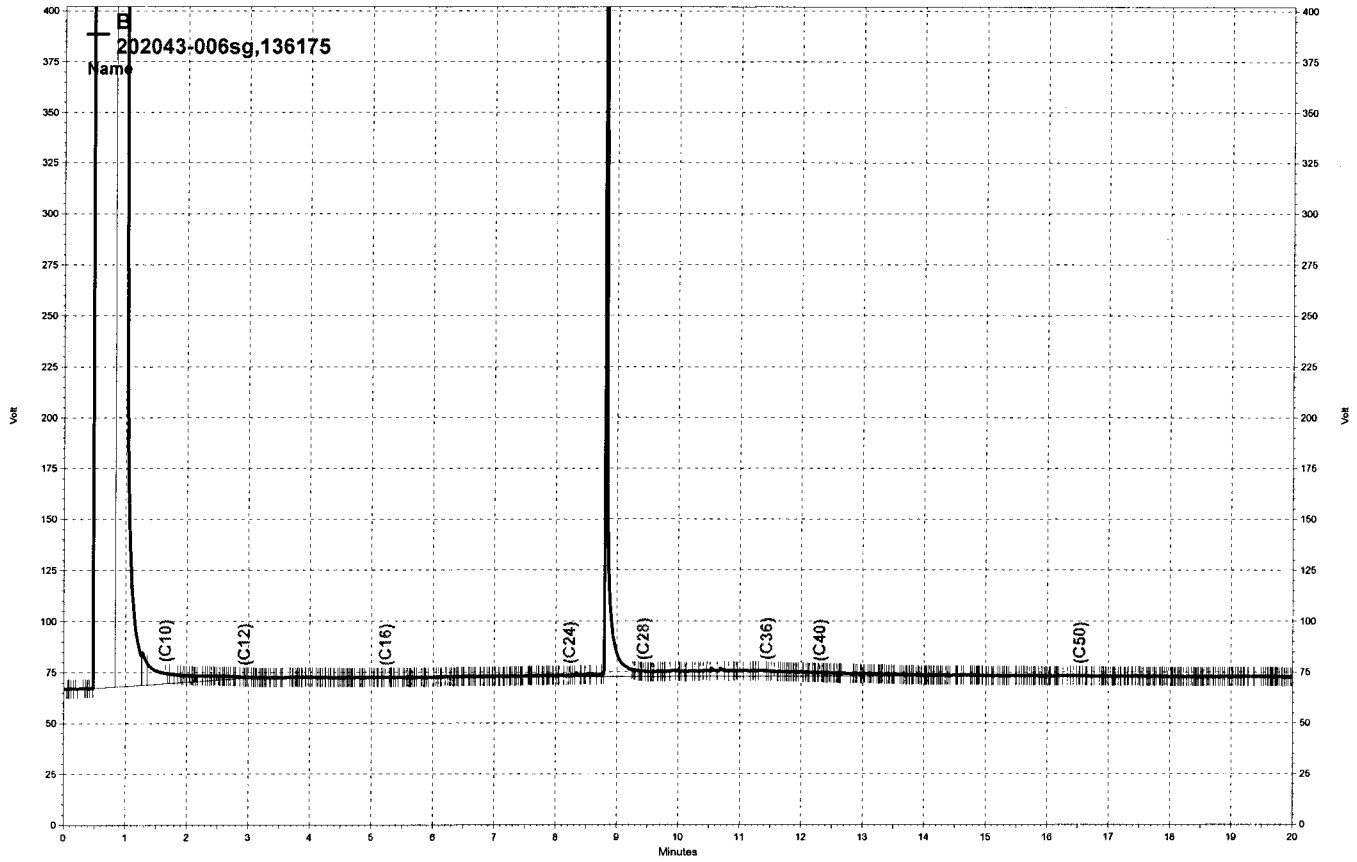
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b086, B



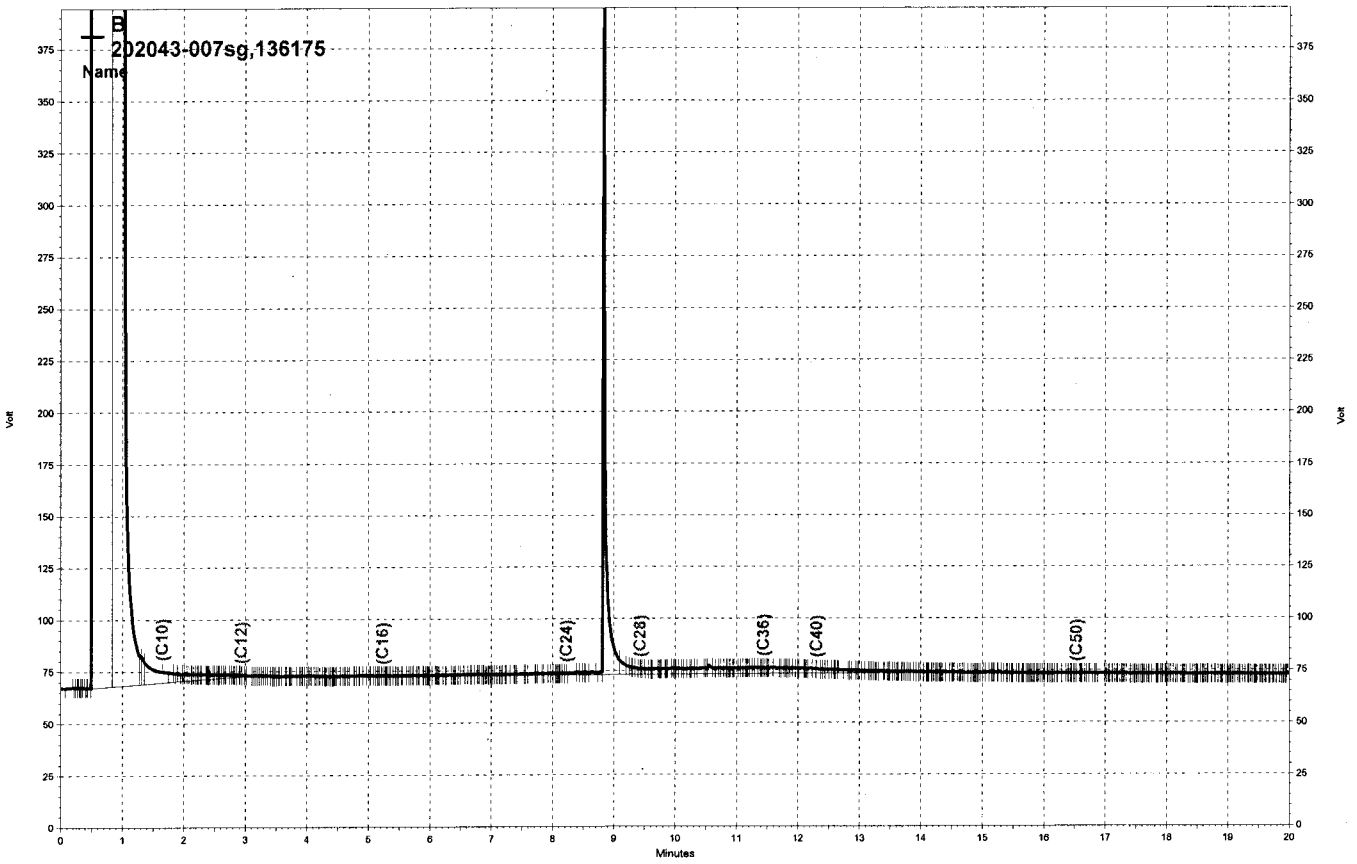
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b087, B



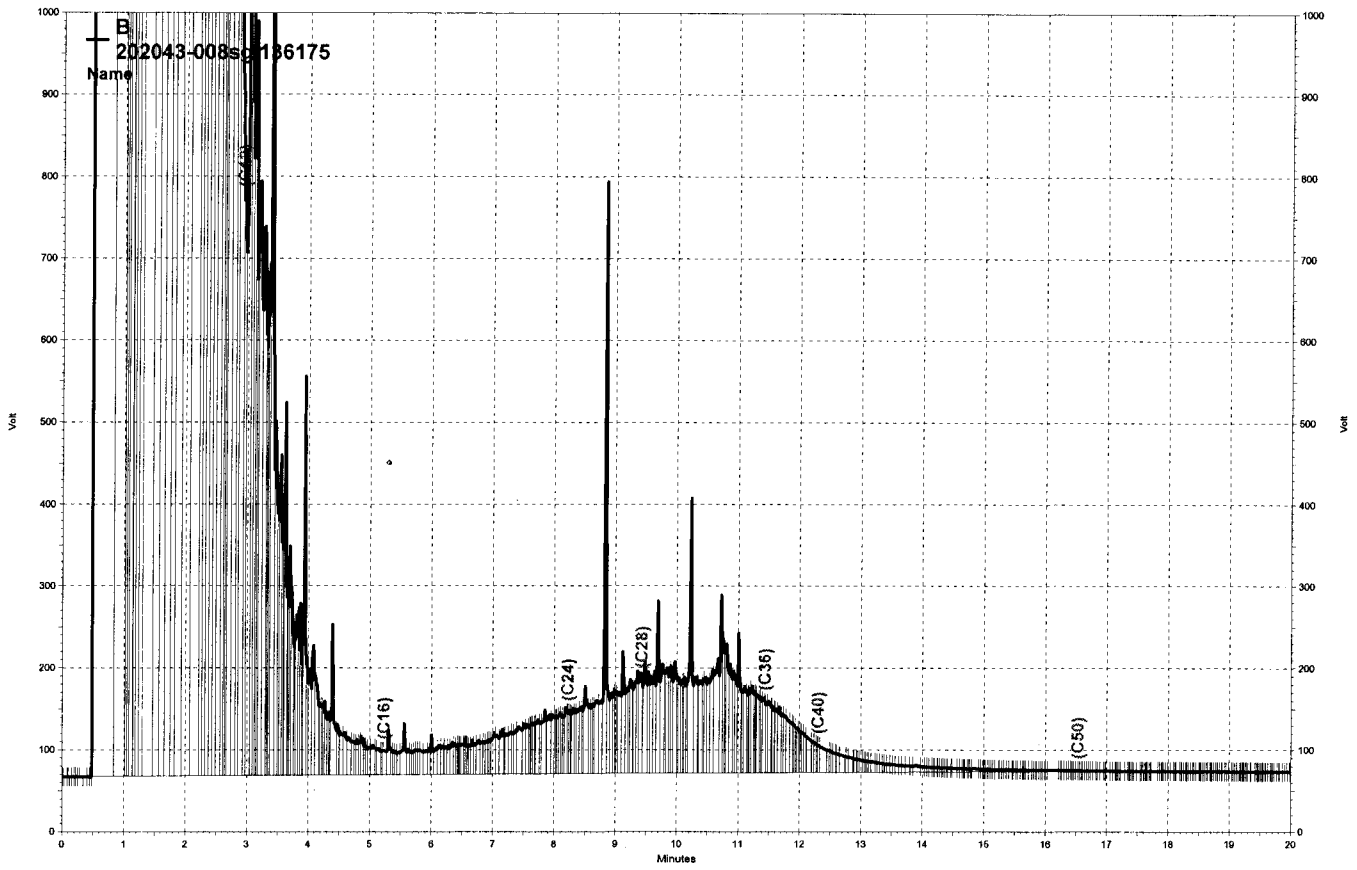
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b005, B



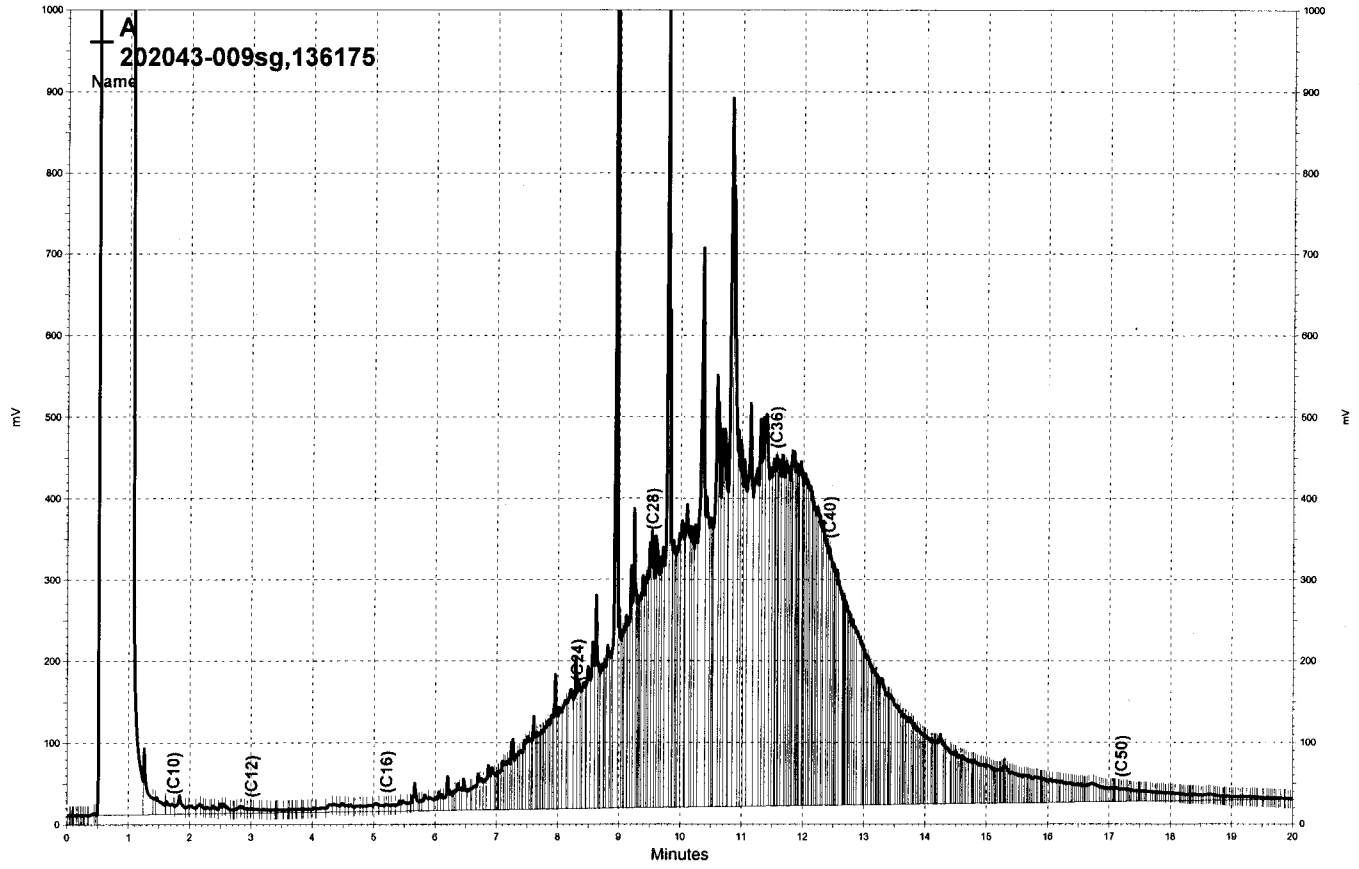
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b088, B



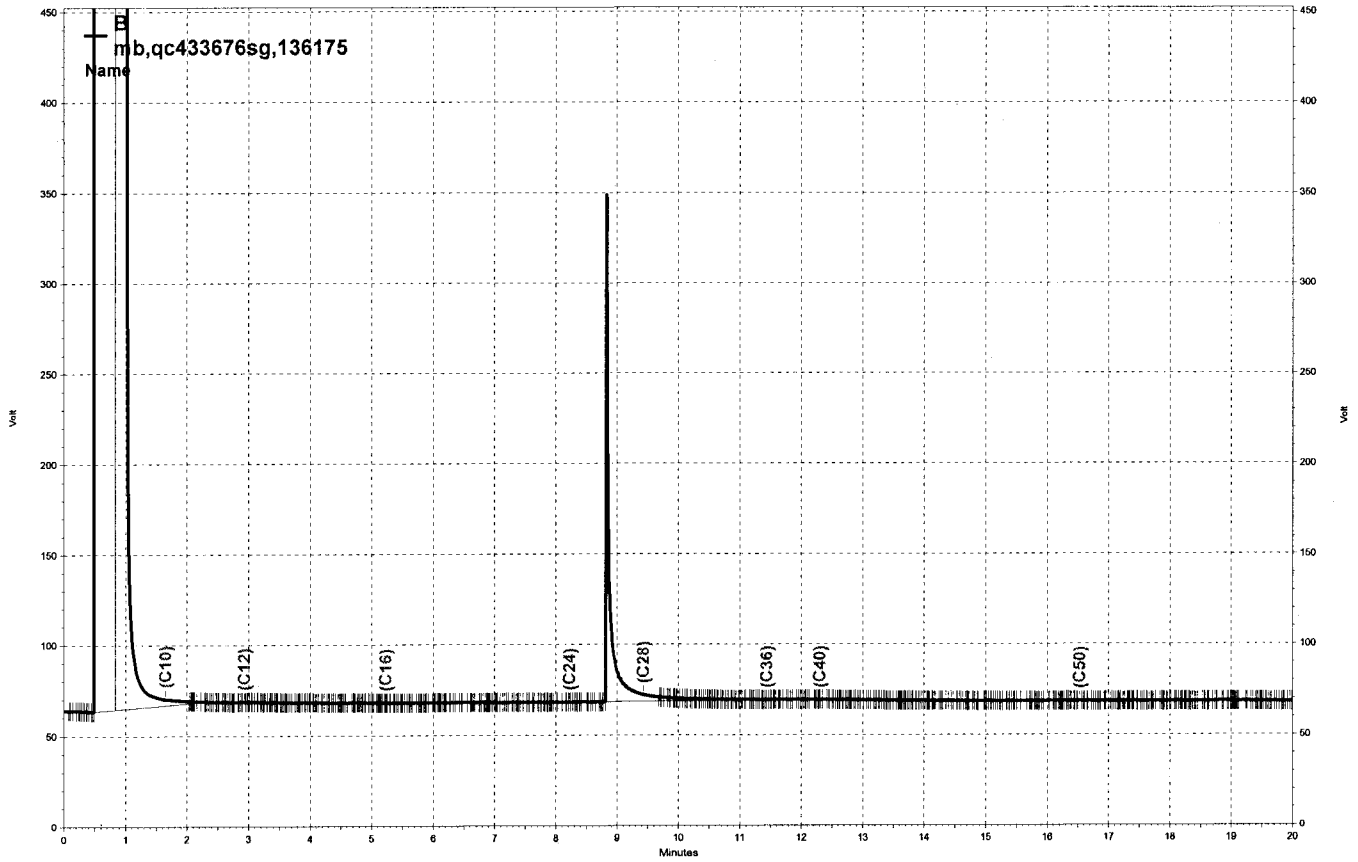
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b089, B



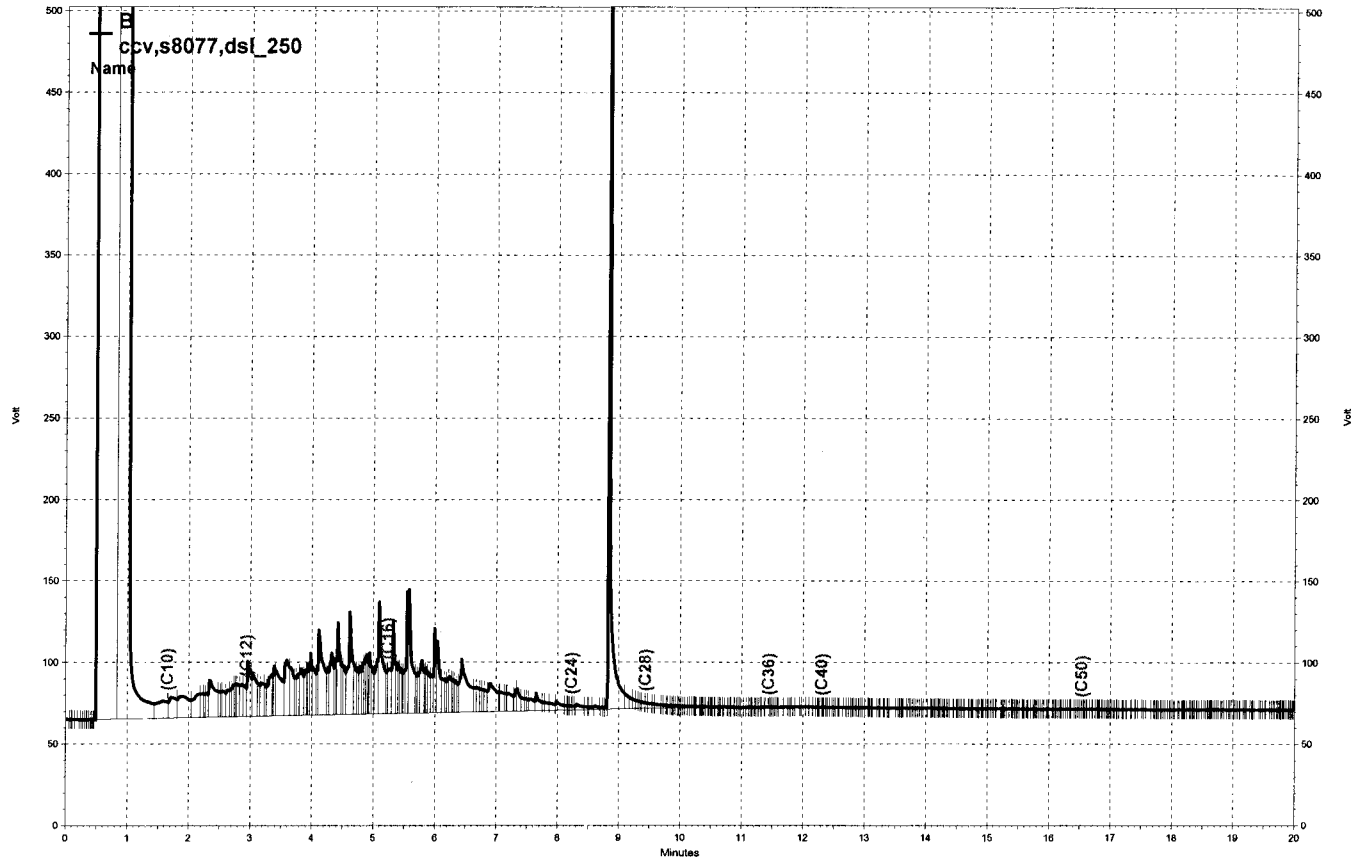
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b092, B



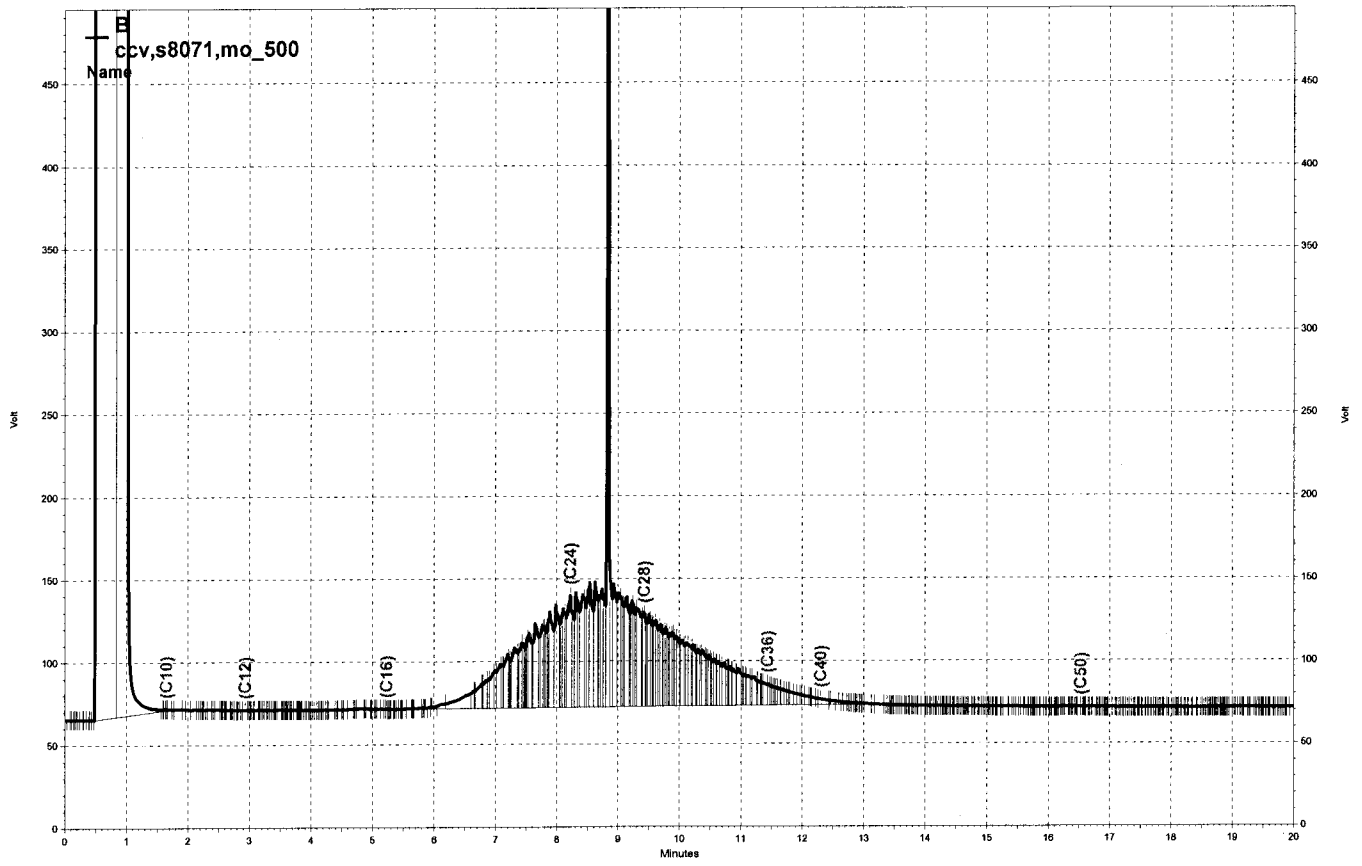
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a011, A



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b055, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b048, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b049, B

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC433677	Batch#:	136175
Matrix:	Soil	Prepared:	03/19/08
Units:	mg/Kg	Analyzed:	03/21/08
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.99	36.34	73	65-135

Surrogate	%REC	Limits
Hexacosane	70	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX307[6.0]	Batch#:	136175
MSS Lab ID:	202043-001	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/21/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC433678

Moisture: 22%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	0.6938	63.94	55.92	86	65-135

Surrogate	%REC	Limits
Hexacosane	88	65-135

Type: MSD
Lab ID: QC433679

Moisture: 22%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	63.90	56.46	87	65-135	1	35

Surrogate	%REC	Limits
Hexacosane	90	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763001
Units : mg/L

Name : DSL
Date : 18-OCT-2007 02:40
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b017	167416763017	DSL_10	18-OCT-2007 02:40	S6612
L2	289b018	167416763018	DSL_100	18-OCT-2007 03:07	S6613
L3	289b019	167416763019	DSL_500	18-OCT-2007 03:35	S6614
L4	289b020	167416763020	DSL_1000	18-OCT-2007 04:03	S6615
L5	289b021	167416763021	DSL_5000	18-OCT-2007 04:31	S6611
L6	289b022	167416763022	DSL_7500	18-OCT-2007 04:58	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	23294	26355	25904	26080	28152	26566	AVRG		3.84E-5		26059	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-11	100.0	1	500.0	-1	1000	0	5000	8	7500	2

Analyst: ATL Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B
Calnum : 167416763001
Name : DSL
Cal Date : 18-OCT-2007

ICV 167416763024 (289b024 18-OCT-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	26059	27062	500.0	519.3	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763002
Units : mg/L

Name : mo 5pt.
Date : 18-OCT-2007 07:18
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b027	167416763027	MO_50	18-OCT-2007 07:18	S6848
L2	289b028	167416763028	MO_250	18-OCT-2007 07:46	S6849
L3	289b029	167416763029	MO_500	18-OCT-2007 08:14	S6850
L4	289b030	167416763030	MO_1000	18-OCT-2007 08:42	S6851
L5	289b031	167416763031	MO_5000	18-OCT-2007 09:10	S6846

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	17688	20401	19302	18899	14749	AVRG		5.49E-5		18208	12	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	12	500.0	6	1000	4	5000	-19

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167479943001
Units : mg/L

Name : Hexacosane
Date : 30-NOV-2007 05:07
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	333b012	167479943012	HEX_5	30-NOV-2007 05:07	S7036
L2	333b013	167479943013	HEX_10	30-NOV-2007 05:35	S7037
L3	333b014	167479943014	HEX_25	30-NOV-2007 06:03	S7038
L4	333b015	167479943015	HEX_50	30-NOV-2007 06:30	S7039
L5	333b016	167479943016	HEX_100	30-NOV-2007 06:58	S7040
L6	333b017	167479943017	HEX_200	30-NOV-2007 07:26	S7041

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	25619	27078	26344	27012	26744	25833	AVRG		3.78E-5		26439	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-3	10.00	2	25.00	0	50.00	2	100.0	1	200.0	-2

Analyst: ATL Date: 11/30/07 Reviewer: LH Date: 11/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178033862001
Units : mg/L

Name : DSL
Date : 23-JAN-2008 16:34
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	023a009	178033862009	DSL_10	23-JAN-2008 16:34	S7961
L2	023a010	178033862010	DSL_100	23-JAN-2008 17:01	S7962
L3	023a011	178033862011	DSL_500	23-JAN-2008 17:29	S7963
L4	023a012	178033862012	DSL_1000	23-JAN-2008 17:56	S7964
L5	023a013	178033862013	DSL_5000	23-JAN-2008 18:23	S7960
L6	023a014	178033862014	DSL_7500	23-JAN-2008 18:51	S7965

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60742	57877	58443	64970	61981	60320	AVRG		1.65E-5		60722	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	0	100.0	-5	500.0	-4	1000	7	5000	2	7500	-1

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178033862001

Name : DSL
Cal Date : 23-JAN-2008

ICV 178033862016 (023a016 23-JAN-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	60722	66286	500.0	545.8	mg/L	9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178035189001
Units : mg/L

Name : HEX_024
Date : 24-JAN-2008 13:37
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a007	178035189007	HEX_5	24-JAN-2008 13:37	S8093
L2	024a008	178035189008	HEX_10	24-JAN-2008 14:04	S8094
L3	024a009	178035189009	HEX_25	24-JAN-2008 14:32	S8095
L4	024a010	178035189010	HEX_50	24-JAN-2008 14:59	S8096
L5	024a011	178035189011	HEX_100	24-JAN-2008 15:26	S8097

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	66995	65277	66174	65324	65865	AVRG		1.52E-5		65927	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	0	50.00	-1	100.0	0

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178035189002
Units : mg/L

Name : MO_024
Date : 24-JAN-2008 16:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a014	178035189014	MO_50	24-JAN-2008 16:49	S6848
L2	024a016	178035189016	MO_500	24-JAN-2008 17:44	S6850
L3	024a017	178035189017	MO_1000	24-JAN-2008 18:11	S6851
L4	024a018	178035189018	MO_5000	24-JAN-2008 18:38	S6846
L5	024a019	178035189019	MO_7500	24-JAN-2008 19:06	S6847
L6	024a022	178035189022	MO_250	25-JAN-2008 12:03	S6849

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	41900	45900	44141	41943	40193	51101	AVRG		2.26E-5		44196	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-5	500.0	4	1000	0	5000	-5	7500	-9	250.0	16

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_250 IDF : 1.0
Seqnum : 168114200048 File : 079b048 Time : 20-MAR-2008 06:27
Standards: S8077

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	28056	250.0	269.2	mg/L	8	15	
Hexacosane	167479943001	30-NOV-2007	26439	23078	50.00	43.64	mg/L	-13	15	

Analyst: JDG Date: 03/20/08 Reviewer: LH Date: 03/20/08

168114200048

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168114200049 File : 079b049 Time : 20-MAR-2008 06:55
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	16489	500.0	452.8	mg/L	-9	15	
Hexacosane	167479943001	30-NOV-2007	26439	22043	50.00	41.69	mg/L	**-17**	15	c-

JDG 03/20/08 : Hexacosane taken from previous CCV.

Analyst: JDG Date: 03/20/08 Reviewer: LH Date: 03/20/08

-=low bias c=CCV

168114200049

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 168114200058 File : 079b058 Time : 20-MAR-2008 12:06
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	22648	1000	869.1	mg/L	-13	15	
Hexacosane	167479943001	30-NOV-2007	26439	25895	50.00	48.97	mg/L	-2	15	

Analyst: DNT Date: 03/20/08 Reviewer: LH Date: 03/20/08

168114200058

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168114200059.1 File : 079b059 Time : 20-MAR-2008 12:34
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	18182	500.0	499.3	mg/L	0	15	
Hexacosane	167479943001	30-NOV-2007	26439	23895	50.00	45.19	mg/L	-10	15	

DNT 03/20/08 : hexacosane page incorrect; standard should read s8716

Analyst: DNT Date: 03/20/08 Reviewer: LH Date: 03/20/08

168114200059.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_500 IDF : 1.0
Seqnum : 168114200078 File : 079b078 Time : 20-MAR-2008 21:48
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	23994	500.0	460.4	mg/L	-8	15	
Hexacosane	167479943001	30-NOV-2007	26439	25026	50.00	47.33	mg/L	-5	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168114200078

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168114200079 File : 079b079 Time : 20-MAR-2008 22:16
Standards: S8731

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	15886	500.0	436.2	mg/L	-13	15	
Hexacosane	167479943001	30-NOV-2007	26439	24322	50.00	46.00	mg/L	-8	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168114200079

00039

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 168114200096 File : 079b096 Time : 21-MAR-2008 06:05
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	22431	1000	860.8	mg/L	-14	15	
Hexacosane	167479943001	30-NOV-2007	26439	25186	50.00	47.63	mg/L	-5	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168114200097 File : 079b097 Time : 21-MAR-2008 06:32
Standards: S8731

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17373	500.0	477.1	mg/L	-5	15	
Hexacosane	167479943001	30-NOV-2007	26439	26330	50.00	49.79	mg/L	0	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168114200097

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_500 IDF : 1.0
Seqnum : 168117153003 File : 081b003 Time : 21-MAR-2008 09:28
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	24849	500.0	476.8	mg/L	-5	15	
Hexacosane	167479943001	30-NOV-2007	26439	26276	50.00	49.69	mg/L	-1	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168117153003

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B
Seqnum : 168117153004
Standards: S8072

Run Name : MO_500
File : 081b004

IDF : 1.0
Time : 21-MAR-2008 09:56

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17030	500.0	467.6	mg/L	-6	15	
Hexacosane	167479943001	30-NOV-2007	26439	25615	50.00	48.44	mg/L	-3	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168117153004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 168117153010.1 File : 081b010 Time : 21-MAR-2008 12:48
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	23412	1000	898.4	mg/L	-10	15	
Hexacosane	167479943001	30-NOV-2007	26439	26246	50.00	49.64	mg/L	-1	15	

Analyst: LH Date: 03/21/08 Reviewer: JDG Date: 03/24/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B
Seqnum : 168117153011
Standards: S8072

Run Name : MO_500
File : 081b011

IDF : 1.0
Time : 21-MAR-2008 13:16

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17550	500.0	481.9	mg/L	-4	15	
Hexacosane	167479943001	30-NOV-2007	26439	26516	50.00	50.15	mg/L	0	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168117153011

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 178117121004 File : 081a004 Time : 21-MAR-2008 09:23
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	61841	500.0	509.2	mg/L	2	15	
Hexacosane	178035189001	24-JAN-2008	65927	70560	50.00	53.51	mg/L	7	15	

Analyst: ATL Date: 03/21/08 Reviewer: LH Date: 03/21/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178117121005 File : 081a005 Time : 21-MAR-2008 09:50
Standards: S8072

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	41683	500.0	471.6	mg/L	-6	15	
Hexacosane	178035189001	24-JAN-2008	65927	61641	50.00	46.75	mg/L	-7	15	

Analyst: ATL Date: 03/21/08 Reviewer: LH Date: 03/21/08

178117121005

: 00047

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC17A
Seqnum : 178117121013
Standards: S8072

Run Name : MO_500
File : 081a013

IDF : 1.0
Time : 21-MAR-2008 14:31

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	45683	500.0	516.8	mg/L	3	15	
Hexacosane	178035189001	24-JAN-2008	65927	68205	50.00	51.73	mg/L	3	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

178117121013

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 178117121014.1 File : 081a014 Time : 21-MAR-2008 14:59
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	61514	500.0	506.5	mg/L	1	15	
Hexacosane	178035189001	24-JAN-2008	65927	69029	50.00	52.35	mg/L	5	15	

Analyst: JDG Date: 03/21/08 * Reviewer: LH Date: 03/24/08

178117121014.1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167416763

Instrument : GC15B
Method : EPA 8015B

Begun : 10/16/07 10:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	289b001	X	PRIMER			10/16/07 10:03	1.0	
002	289b002	X	IB			10/16/07 10:30	1.0	
003	289b003	X	CMARKER			10/16/07 10:58	1.0	1
004	289b004	CCV	DSL_250			10/16/07 11:26	1.0	2
005	289b005	CCV	MO_500			10/16/07 11:53	1.0	3
006	289b006	CCV	DSL_250			10/16/07 12:47	1.0	2
007	289b007	X	IB			10/17/07 14:25	1.0	
009	289b009	X	IB			10/17/07 16:54	1.0	
010	289b010	X	IB			10/17/07 17:22	1.0	
011	289b011	CMARKER	C10-C50			10/17/07 17:50	1.0	1
012	289b012	CCV	DSL_500			10/17/07 18:17	1.0	4
013	289b013	CCV	MO_500			10/17/07 18:45	1.0	3
014	289b014	CCV	OTP_50			10/17/07 19:12	1.0	5
015	289b015	X	IB			10/18/07 01:44	1.0	
016	289b016	IB	CALIB			10/18/07 02:12	1.0	
017	289b017	ICAL	DSL_10			10/18/07 02:40	1.0	6
018	289b018	ICAL	DSL_100			10/18/07 03:07	1.0	7
019	289b019	ICAL	DSL_500			10/18/07 03:35	1.0	8
020	289b020	ICAL	DSL_1000			10/18/07 04:03	1.0	9
021	289b021	ICAL	DSL_5000			10/18/07 04:31	1.0	10
022	289b022	ICAL	DSL_7500			10/18/07 04:58	1.0	11
023	289b023	IB	CALIB			10/18/07 05:26	1.0	
024	289b024	ICV	DSL_500			10/18/07 05:54	10.0	12
025	289b025	X	ICV			10/18/07 06:22	1.0	12
026	289b026	IB	CALIB			10/18/07 06:50	1.0	
027	289b027	ICAL	MO_50			10/18/07 07:18	1.0	13
028	289b028	ICAL	MO_250			10/18/07 07:46	1.0	14
029	289b029	ICAL	MO_500			10/18/07 08:14	1.0	15
030	289b030	ICAL	MO_1000			10/18/07 08:42	1.0	16
031	289b031	ICAL	MO_5000			10/18/07 09:10	1.0	17
032	289b032	ICAL	MO_7500			10/18/07 09:38	1.0	18
033	289b033	IB	CALIB			10/18/07 10:06	1.0	
034	289b034	IB	CALIB			10/18/07 10:34	1.0	
035	289b035	ICAL	HEX_5			10/18/07 11:02	1.0	19
036	289b036	ICAL	HEX_10			10/18/07 11:30	1.0	20
037	289b037	ICAL	HEX_25			10/18/07 11:57	1.0	21
038	289b038	ICAL	HEX_50			10/18/07 12:25	1.0	22
039	289b039	ICAL	HEX_100			10/18/07 12:53	1.0	23
040	289b040	ICAL	HEX_200			10/18/07 13:21	1.0	24
041	289b041	IB	CALIB			10/18/07 13:48	1.0	
042	289b042	ICAL	OTP_5			10/18/07 14:16	1.0	25
043	289b043	ICAL	OTP_10			10/18/07 14:44	1.0	26
044	289b044	ICAL	OTP_25			10/18/07 15:12	1.0	27
045	289b045	ICAL	OTP_50			10/18/07 15:39	1.0	28
046	289b046	ICAL	OTP_100			10/18/07 16:07	1.0	29
047	289b047	ICAL	OTP_200			10/18/07 16:34	1.0	30
048	289b048	IB	CALIB			10/18/07 17:02	1.0	

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Standards used: 1=S6952 2=S6807 3=S7310 4=S6808 5=S6922 6=S6612 7=S6613 8=S6614 9=S6615 10=S6611 11=S6616 12=S6617 13=S6848 14=S6849 15=S6850 16=S6851 17=S6846 18=S6847 19=S7036 20=S7037 21=S7038 22=S7039 23=S7040 24=S7041 25=S6397 26=S6398 27=S6399 28=S6400 29=S6401 30=S6402

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 167479943

Instrument : GC15B
Method : EPA 8015B

Begun : 11/29/07 07:03
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	333b001	X	PRIMER				11/29/07 07:03	1.0		
002	333b002	X	IB				11/29/07 07:31	1.0		
003	333b003	X	CMARKER				11/29/07 07:58	1.0	1	
004	333b004	CCV	DSL_250				11/29/07 08:26	1.0	2	
005	333b005	CCV	MO_500				11/29/07 08:54	1.0	3	
006	333b006	X	IB				11/29/07 11:32	1.0		
007	333b007	X	CMARKER				11/29/07 12:00	1.0	1	
008	333b008	CCV	DSL_500				11/29/07 12:27	1.0	4	
009	333b009	CCV	MO_500				11/29/07 12:55	1.0	3	
010	333b010	X	IB				11/30/07 04:12	1.0		
011	333b011	IB	CALIB				11/30/07 04:39	1.0		
012	333b012	ICAL	HEX_5				11/30/07 05:07	1.0	5	
013	333b013	ICAL	HEX_10				11/30/07 05:35	1.0	6	
014	333b014	ICAL	HEX_25				11/30/07 06:03	1.0	7	
015	333b015	ICAL	HEX_50				11/30/07 06:30	1.0	8	
016	333b016	ICAL	HEX_100				11/30/07 06:58	1.0	9	
017	333b017	ICAL	HEX_200				11/30/07 07:26	1.0	10	
018	333b018	X	IB				11/30/07 07:54	1.0		
019	333b019	X	CMARKER				11/30/07 08:22	1.0	1	
020	333b020	CCV	DSL_500				11/30/07 08:50	1.0	4	
021	333b021	CCV	MO_500				11/30/07 09:18	1.0	3	
022	333b022	SAMPLE	199531-002	S	Soil	132225	11/30/07 09:58	1.0		
023	333b023	SAMPLE	199531-004	S	Soil	132225	11/30/07 10:26	1.0		1:BUNKC:12-40=6100
024	333b024	X	IB				11/30/07 10:54	1.0		
025	333b025	SAMPLE	199484-002	S	Soil	132190	11/30/07 11:21	1.0		
026	333b026	SAMPLE	199484-003	S	Soil	132190	11/30/07 11:49	1.0		
027	333b027	SAMPLE	199440-002	S	Soil	132140	11/30/07 12:27	10.0		
028	333b028	SAMPLE	199440-008	S	Soil	132140	11/30/07 12:59	10.0		
029	333b029	SAMPLE	199440-014	S	Soil	132140	11/30/07 13:30	10.0		
030	333b030	X	IB				11/30/07 14:48	1.0		
031	333b031	MSS	199483-002	S	Soil	132190	11/30/07 15:28	1.0		
032	333b032	SAMPLE	199483-004	S	Soil	132190	11/30/07 15:56	1.0		
033	333b033	X	IB				11/30/07 16:24	1.0		
034	333b034	SAMPLE	199483-003	S	Soil	132190	11/30/07 16:52	1.0		
035	333b035	X	DSL_250				11/30/07 17:20	1.0	2	
036	333b036	X	MO_500				11/30/07 17:48	1.0	3	
037	333b037	CCV	DSL_250				11/30/07 18:24	1.0	2	
038	333b038	CCV	MO_500				11/30/07 18:52	1.0	3	

Standards used: 1=S6952 2=S7540 3=S7310 4=S7541 5=S7036 6=S7037 7=S7038 8=S7039 9=S7040 10=S7041

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168114200

Instrument : GC15B
Method : EPA 8015B

Begun : 03/19/08 07:20
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	079b001	X	PRIMER				03/19/08 07:20	1.0	
002	079b002	X	IB				03/19/08 07:48	1.0	
003	079b003	X	CMARKER				03/19/08 08:16	1.0	1
004	079b004	CCV	DSL_250				03/19/08 08:43	1.0	2
005	079b005	CCV	MO_500				03/19/08 09:11	1.0	3
006	079b006	SAMPLE	201760-021	S	Water	136032	03/19/08 09:41	1.0	
007	079b007	SAMPLE	201755-005		Water	136001	03/19/08 10:09	1.0	
008	079b008	SAMPLE	201956-004		Water	136058	03/19/08 10:37	1.0	
009	079b009	BLANK	QC433424	S	Water	136108	03/19/08 11:05	1.0	
010	079b010	LCS	QC433425	S	Water	136108	03/19/08 11:33	1.0	
011	079b011	CCV	DSL_500				03/19/08 12:04	1.0	4
012	079b012	X	CCV				03/19/08 12:32	1.0	3
013	079b013	X	IB				03/19/08 13:25	1.0	
014	079b014	CCV	MO_500				03/19/08 13:53	1.0	3
015	079b015	CCV	JET_250				03/19/08 14:21	1.0	5
016	079b016	CCV	JP5_250				03/19/08 14:49	1.0	6
017	079b017	X	MO_500				03/19/08 15:23	1.0	7
018	079b018	BLANK	QC433424		Water	136108	03/19/08 16:36	1.0	
019	079b019	BLANK	QC433424	S	Water	136108	03/19/08 17:04	1.0	
020	079b020	SAMPLE	201901-001	S	Water	136108	03/19/08 17:31	1.0	
021	079b021	SAMPLE	201901-003	S	Water	136108	03/19/08 18:00	1.0	
022	079b022	SAMPLE	201901-004	S	Water	136108	03/19/08 18:27	1.0	
023	079b023	SAMPLE	201901-006	S	Water	136108	03/19/08 18:55	1.0	
024	079b024	SAMPLE	201901-007	S	Water	136108	03/19/08 19:23	1.0	
025	079b025	SAMPLE	201901-009	S	Water	136108	03/19/08 19:51	1.0	
026	079b026	SAMPLE	201938-001	S	Water	136108	03/19/08 20:19	1.0	
027	079b027	SAMPLE	201938-002	S	Water	136108	03/19/08 20:47	1.0	
028	079b028	X	CMARKER				03/19/08 21:15	1.0	1
029	079b029	CCV	DSL_1000				03/19/08 21:43	1.0	8
030	079b030	CCV	MO_500				03/19/08 22:10	1.0	3
031	079b031	CCV	JET_250				03/19/08 22:38	1.0	5
033	079b033	X	CCV				03/19/08 23:33	1.0	8
034	079b034	X	CCV				03/20/08 00:01	1.0	3
035	079b035	X	CCV				03/20/08 00:29	1.0	5
036	079b036	CCV	JP5_250				03/20/08 00:56	1.0	6
037	079b037	SAMPLE	201938-003	S	Water	136108	03/20/08 01:24	1.0	
038	079b038	SAMPLE	201938-004	S	Water	136108	03/20/08 01:51	1.0	
039	079b039	SAMPLE	201938-005	S	Water	136108	03/20/08 02:19	1.0	
040	079b040	SAMPLE	201917-001		Water	136108	03/20/08 02:47	1.0	
041	079b041	SAMPLE	201917-002		Water	136108	03/20/08 03:14	1.0	
042	079b042	SAMPLE	201917-003		Water	136108	03/20/08 03:42	1.0	
043	079b043	SAMPLE	201977-001		Water	136108	03/20/08 04:10	1.0	
044	079b044	SAMPLE	201977-002		Water	136108	03/20/08 04:37	1.0	
045	079b045	SAMPLE	201841-001	S	Water	136108	03/20/08 05:05	1.0	
046	079b046	SAMPLE	201841-002	S	Water	136108	03/20/08 05:32	1.0	
047	079b047	X	CMARKER				03/20/08 06:00	1.0	1
048	079b048	CCV	DSL_250				03/20/08 06:27	1.0	2
049	079b049	CCV	MO_500				03/20/08 06:55	1.0	3
050	079b050	CCV	JP5_250				03/20/08 07:22	1.0	6
051	079b051	X	CCV				03/20/08 07:49	1.0	2
052	079b052	X	CCV				03/20/08 08:17	1.0	3
053	079b053	X	CCV				03/20/08 08:44	1.0	6

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168114200

Instrument : GC15B
Method : EPA 8015B

Begun : 03/19/08 07:20
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
054	079b054	X	MO_500				03/20/08 09:12	1.0	9	
055	079b055	BLANK	QC433676	S	Soil	136175	03/20/08 09:40	1.0		
056	079b056	LCS	QC433677	S	Soil	136175	03/20/08 10:07	1.0		
057	079b057	SAMPLE	202038-003	S	Soil	136175	03/20/08 10:35	1.0		
058	079b058	CCV	DSL_1000				03/20/08 12:06	1.0	8	
059	079b059	CCV	MO_500				03/20/08 12:34	1.0	3	
060	079b060	MSS	201914-006	S	Water	136108	03/20/08 13:02	1.0		
061	079b061	MS	QC433052	S	Water	136020	03/20/08 13:30	1.0		
062	079b062	MSD	QC433053	S	Water	136020	03/20/08 13:58	1.0		
063	079b063	MS	QC433210	S	Water	136058	03/20/08 14:26	1.0		
064	079b064	MSD	QC433211	S	Water	136058	03/20/08 14:54	1.0		
065	079b065	X	CMARKER				03/20/08 15:21	1.0	1	
066	079b066	CCV	DSL_250				03/20/08 15:49	1.0	2	
067	079b067	CCV	MO_500				03/20/08 16:23	1.0	7	
068	079b068	SAMPLE	201913-001	S	Water	136167	03/20/08 17:08	1.0		
069	079b069	BLANK	QC433642	S	Water	136167	03/20/08 17:36	1.0		
070	079b070	LCS	QC433643	S	Water	136167	03/20/08 18:03	1.0		
071	079b071	BLANK	QC433498		Soil	136132	03/20/08 18:31	1.0		
072	079b072	SAMPLE	201962-003	S	Soil	136132	03/20/08 19:00	1.0		
073	079b073	SAMPLE	201962-005	S	Soil	136132	03/20/08 19:28	1.0		
074	079b074	SAMPLE	201962-012	S	Soil	136132	03/20/08 19:56	1.0		
075	079b075	SAMPLE	201962-015	S	Soil	136132	03/20/08 20:24	1.0		
076	079b076	SAMPLE	201760-021		Water	136032	03/20/08 20:52	1.0		
077	079b077	SAMPLE	201841-003	S	Water	136108	03/20/08 21:20	1.0		
078	079b078	CCV	DSL_500				03/20/08 21:48	1.0	4	
079	079b079	CCV	MO_500				03/20/08 22:16	1.0	10	
080	079b080	CCV	OTP				03/20/08 22:43	1.0	11	
081	079b081	X	CCV				03/20/08 23:11	1.0	4	
082	079b082	X	CCV				03/20/08 23:39	1.0	10	
083	079b083	X	CCV				03/21/08 00:06	1.0	11	
084	079b084	BLANK	QC433676	S	Soil	136175	03/21/08 00:34	1.0		
085	079b085	LCS	QC433677	S	Soil	136175	03/21/08 01:02	1.0		
086	079b086	SAMPLE	202043-003	S	Soil	136175	03/21/08 01:29	1.0		
087	079b087	SAMPLE	202043-004	S	Soil	136175	03/21/08 01:57	1.0		
088	079b088	SAMPLE	202043-006	S	Soil	136175	03/21/08 02:24	1.0		
089	079b089	SAMPLE	202043-007	S	Soil	136175	03/21/08 02:51	1.0		
090	079b090	MSS	202043-001	S	Soil	136175	03/21/08 03:19	1.0		
091	079b091	SAMPLE	202043-005	S	Soil	136175	03/21/08 03:47	1.0		
092	079b092	SAMPLE	202043-008	S	Soil	136175	03/21/08 04:15	1.0		5:BUNKC:12-40=7300
093	079b093	X	IB				03/21/08 04:42	1.0		
094	079b094	SAMPLE	202043-002	S	Soil	136175	03/21/08 05:10	1.0		
095	079b095	X	CMARKER				03/21/08 05:37	1.0	1	
096	079b096	CCV	DSL_1000				03/21/08 06:05	1.0	8	
097	079b097	CCV	MO_500				03/21/08 06:32	1.0	10	
098	079b098	CCV	OTP				03/21/08 07:00	1.0	11	
099	079b099	X	CCV				03/21/08 07:27	1.0	8	
100	079b100	X	CCV				03/21/08 07:54	1.0	10	

Standards used: 1=S8590 2=S8077 3=S8071 4=S8078 5=S8251 6=S8100 7=S8716 8=S8079 9=S8717 10=S8731 11=S8227

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168117153

Instrument : GC15B
Method : EPA 8015B

Begun : 03/21/08 08:33
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	081b001	X	IB				03/21/08 08:33	1.0	
002	081b002	X	CMARKER				03/21/08 09:01	1.0	1
003	081b003	CCV	DSL_500				03/21/08 09:28	1.0	2
004	081b004	CCV	MO_500				03/21/08 09:56	1.0	3
005	081b005	SAMPLE	202043-005	S	Soil	136175	03/21/08 10:26	1.0	
006	081b006	SAMPLE	201977-003		Soil	136132	03/21/08 10:57	1.0	
007	081b007	SAMPLE	201977-004		Soil	136132	03/21/08 11:25	1.0	
008	081b008	MS	QC433678	S	Soil	136175	03/21/08 11:53	1.0	
009	081b009	MSD	QC433679	S	Soil	136175	03/21/08 12:20	1.0	
010	081b010	CCV	DSL_1000				03/21/08 12:48	1.0	4
011	081b011	CCV	MO_500				03/21/08 13:16	1.0	3
012	081b012	MS	QC433477	S	Soil	136121	03/21/08 14:00	1.0	
013	081b013	MSD	QC433478	S	Soil	136121	03/21/08 14:28	1.0	
014	081b014	CCV	DSL_250				03/21/08 15:10	1.0	5
015	081b015	CCV	MO_500				03/21/08 15:37	1.0	3
016	081b016	X	TANKCHECK				03/21/08 16:05	1.0	
017	081b017	X	TANKCHECK				03/21/08 16:48	1.0	
018	081b018	X	TANKCHECK				03/21/08 17:16	1.0	
019	081b019	SAMPLE	201918-002		Water	136167	03/21/08 18:06	1.0	
020	081b020	SAMPLE	201918-003		Water	136167	03/21/08 18:35	1.0	
021	081b021	SAMPLE	201918-004		Water	136167	03/21/08 19:02	1.0	
022	081b022	SAMPLE	201918-005		Water	136167	03/21/08 19:30	1.0	
023	081b023	MS	QC433644	S	Water	136167	03/21/08 19:58	1.0	
024	081b024	MSD	QC433645	S	Water	136167	03/21/08 20:26	1.0	
025	081b025	MS	QC433646	S	Water	136167	03/21/08 20:54	1.0	
026	081b026	X	IB				03/22/08 07:36	1.0	
027	081b027	MSD	QC433647	S	Water	136167	03/22/08 08:03	1.0	
028	081b028	SAMPLE	201870-001	S	Water	136167	03/22/08 08:31	1.0	
029	081b029	MSS	201870-002	S	Water	136167	03/22/08 08:59	1.0	
030	081b030	X	CMARKER				03/22/08 09:27	1.0	1
031	081b031	CCV	DSL_500				03/22/08 09:55	1.0	2
032	081b032	CCV	MO_500				03/22/08 10:22	1.0	3
033	081b033	X	CCV				03/22/08 10:50	1.0	2
034	081b034	X	CCV				03/22/08 11:17	1.0	3
035	081b035	SAMPLE	201870-003	S	Water	136167	03/22/08 11:45	1.0	
036	081b036	SAMPLE	201870-004	S	Water	136167	03/22/08 12:13	1.0	
037	081b037	SAMPLE	201870-005	S	Water	136167	03/22/08 12:40	1.0	
038	081b038	SAMPLE	201870-006	S	Water	136167	03/22/08 13:08	1.0	
039	081b039	SAMPLE	201870-008	S	Water	136167	03/22/08 13:36	1.0	
040	081b040	SAMPLE	201870-010	S	Water	136167	03/22/08 14:04	1.0	
041	081b041	SAMPLE	201870-011	S	Water	136167	03/22/08 14:32	1.0	
042	081b042	SAMPLE	201870-012	S	Water	136167	03/22/08 15:00	1.0	
043	081b043	SAMPLE	201870-013	S	Water	136167	03/22/08 15:28	1.0	
044	081b044	MSS	201870-014	S	Water	136167	03/22/08 15:56	1.0	
045	081b045	X	CMARKER				03/22/08 16:24	1.0	1
046	081b046	CCV	DSL_1000				03/22/08 16:52	1.0	4
047	081b047	CCV	MO_500				03/22/08 17:20	1.0	3
048	081b048	X	CCV				03/22/08 17:48	1.0	4
049	081b049	X	CCV				03/22/08 18:16	1.0	3

Standards used: 1=S8590 2=S8078 3=S8072 4=S8079 5=S8077

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178033862

Instrument : GC17A
Method : EPA 8015B

Begun : 01/23/08 12:22
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	023a001	X	PRIMER			01/23/08 12:22	1.0	
002	023a002	X	IB			01/23/08 12:49	1.0	
003	023a003	X	CMARKER			01/23/08 13:16	1.0	1
004	023a004	CCV	DSL_500			01/23/08 13:44	1.0	2
005	023a005	CCV	MO_500			01/23/08 14:11	1.0	3
006	023a006	IB	CALIB			01/23/08 15:11	1.0	
007	023a007	CMARKER	C8-C50			01/23/08 15:39	1.0	4
008	023a008	IB	CALIB			01/23/08 16:06	1.0	
009	023a009	ICAL	DSL_10			01/23/08 16:34	1.0	5
010	023a010	ICAL	DSL_100			01/23/08 17:01	1.0	6
011	023a011	ICAL	DSL_500			01/23/08 17:29	1.0	7
012	023a012	ICAL	DSL_1000			01/23/08 17:56	1.0	8
013	023a013	ICAL	DSL_5000			01/23/08 18:23	1.0	9
014	023a014	ICAL	DSL_7500			01/23/08 18:51	1.0	10
015	023a015	IB	CALIB			01/23/08 19:18	1.0	
016	023a016	ICV	DSL_500			01/23/08 19:46	1.0	11
017	023a017	X	DSL_500			01/23/08 20:13	1.0	11
018	023a018	IB	CALIB			01/23/08 20:40	1.0	

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S4049 5=S7961 6=S7962 7=S7963 8=S7964 9=S7960 10=S7965 11=S8069

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178035189

Instrument : GC17A
Method : EPA 8015B

Begun : 01/24/08 10:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	024a001	X	PRIMER			01/24/08 10:29	1.0		
002	024a002	X	IB			01/24/08 10:56	1.0		
003	024a003	X	CMARKER			01/24/08 11:24	1.0	1	
004	024a004	CCV	DSL_500			01/24/08 11:52	1.0	2	
005	024a005	CCV	MO_500			01/24/08 12:19	1.0	3	
006	024a006	IB	CALIB			01/24/08 13:09	1.0		
007	024a007	ICAL	HEX_5			01/24/08 13:37	1.0	4	
008	024a008	ICAL	HEX_10			01/24/08 14:04	1.0	5	
009	024a009	ICAL	HEX_25			01/24/08 14:32	1.0	6	
010	024a010	ICAL	HEX_50			01/24/08 14:59	1.0	7	
011	024a011	ICAL	HEX_100			01/24/08 15:26	1.0	8	
012	024a012	ICAL	HEX_200			01/24/08 15:54	1.0	9	
013	024a013	IB	CALIB			01/24/08 16:21	1.0		
014	024a014	ICAL	MO_50			01/24/08 16:49	1.0	10	
015	024a015	X	MO_250			01/24/08 17:16	1.0	11	
016	024a016	ICAL	MO_500			01/24/08 17:44	1.0	12	
017	024a017	ICAL	MO_1000			01/24/08 18:11	1.0	13	
018	024a018	ICAL	MO_5000			01/24/08 18:38	1.0	14	
019	024a019	ICAL	MO_7500			01/24/08 19:06	1.0	15	
020	024a020	IB	CALIB			01/24/08 19:34	1.0		
021	024a021	X	IB			01/25/08 11:21	1.0		
022	024a022	ICAL	MO_250			01/25/08 12:03	1.0	11	

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S8093 5=S8094 6=S8095 7=S8096 8=S8097 9=S8098 10=S6848 11=S6849 12=S6850 13=S6851 14=S6846 15=S6847

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178117121

Instrument : GC17A
Method : EPA 8015B

Begun : 03/21/08 08:01
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	081a001	X	IB				03/21/08 08:01	1.0	
002	081a002	X	IB				03/21/08 08:28	1.0	
003	081a003	CMARKER	C8-C50				03/21/08 08:56	1.0	1
004	081a004	CCV	DSL_500				03/21/08 09:23	1.0	2
005	081a005	CCV	MO_500				03/21/08 09:50	1.0	3
006	081a006	CCV	JET_250				03/21/08 10:51	1.0	4
007	081a007	CCV	JP5_250				03/21/08 11:19	1.0	5
008	081a008	SAMPLE	201760-021	S	Water	136032	03/21/08 11:46	1.0	
009	081a009	LCS	QC433476	S	Soil	136121	03/21/08 12:13	1.0	
010	081a010	SAMPLE	201958-021	S	Soil	136121	03/21/08 12:41	1.0	
011	081a011	SAMPLE	202043-009	S	Soil	136175	03/21/08 13:20	1.0	
012	081a012	X	DSL_500				03/21/08 14:04	1.0	2
013	081a013	CCV	MO_500				03/21/08 14:31	1.0	3
014	081a014	CCV	DSL_500				03/21/08 14:59	1.0	2
015	081a015	CCV	JET_250				03/21/08 15:26	1.0	4
016	081a016	BLANK	QC433434		Water	136111	03/21/08 16:34	1.0	
017	081a017	MS	QC433436		Water	136111	03/21/08 17:02	1.0	
018	081a018	MSD	QC433437		Water	136111	03/21/08 17:29	1.0	
019	081a019	SAMPLE	201891-006	S	Water	136111	03/21/08 17:56	1.0	
020	081a020	SAMPLE	201891-011	S	Water	136111	03/21/08 18:24	1.0	
021	081a021	SAMPLE	201868-004	S	Water	136111	03/21/08 18:52	1.0	
022	081a022	SAMPLE	201868-005	S	Water	136111	03/21/08 19:19	1.0	
023	081a023	SAMPLE	201891-001	S	Water	136111	03/21/08 19:47	1.0	
024	081a024	SAMPLE	201891-002	S	Water	136111	03/21/08 20:14	1.0	
025	081a025	SAMPLE	201891-005	S	Water	136111	03/21/08 20:41	1.0	
026	081a026	CCV	DSL_1000				03/21/08 21:08	1.0	6
027	081a027	CCV	MO_500				03/21/08 21:36	1.0	7
028	081a028	CCV	JET_250				03/21/08 22:03	1.0	4
029	081a029	CCV	JP5_250				03/21/08 22:30	1.0	5
030	081a030	X	CCV				03/21/08 22:57	1.0	6
031	081a031	X	CCV				03/21/08 23:24	1.0	7
032	081a032	X	CCV				03/21/08 23:52	1.0	4
033	081a033	X	CCV				03/22/08 00:19	1.0	5
034	081a034	BLANK	QC433434	S	Water	136111	03/22/08 00:46	1.0	
035	081a035	LCS	QC433435	S	Water	136111	03/22/08 01:13	1.0	
036	081a036	SAMPLE	201868-001	S	Water	136111	03/22/08 01:40	1.0	
037	081a037	SAMPLE	201868-002	S	Water	136111	03/22/08 02:07	1.0	
038	081a038	SAMPLE	201868-003	S	Water	136111	03/22/08 02:34	1.0	
039	081a039	SAMPLE	201938-003	S	Water	136108	03/22/08 03:02	1.0	
040	081a040	SAMPLE	201870-015	S	Water	136167	03/22/08 03:28	1.0	
041	081a041	X	CMARKER				03/22/08 03:55	1.0	1
042	081a042	CCV	DSL_500				03/22/08 04:22	1.0	2
043	081a043	CCV	MO_500				03/22/08 04:49	1.0	7
044	081a044	CCV	JET_250				03/22/08 05:17	1.0	4
045	081a045	CCV	JP5_250				03/22/08 05:44	1.0	5
046	081a046	X	CCV				03/22/08 06:11	1.0	2
047	081a047	X	CCV				03/22/08 06:38	1.0	7
048	081a048	X	CCV				03/22/08 07:05	1.0	4
049	081a049	X	CCV				03/22/08 07:33	1.0	5

Standards used: 1=S8590 2=S8078 3=S8072 4=S8251 5=S8100 6=S8079 7=S8731

00057

SAMPLE PREPARATION SUMMARY

Batch # : 136175
Started By : MFC
Method : SHAKER TABLE
Spike #1 ID : S8587
Prep Date : 19-MAR-2008
SOP Version : TEH1_rv9
Spike #2 ID : S8651
Analysis : TEH
Finished By : MFC
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
201858-001		Soil	50.03	5	1	0.09994		1			3630C	(rebatched)	
201858-002		Soil	50.38	5	1	0.09925		1			3630C	(rebatched)	
201858-003		Soil	50.03	5	1	0.09994		1			3630C	(rebatched)	
201858-004		Soil	50.29	5	1	0.09942		1			3630C	(rebatched)	
201858-005		Soil	50.32	5	1	0.09936		1			3630C	(rebatched)	
201858-006		Soil	50.17	5	1	0.09966		1			3630C	(rebatched)	
201858-007		Soil	50.23	5	1	0.09954		1			3630C	(rebatched)	
201858-008		Soil	50.45	5	1	0.09911		1			3630C	(rebatched)	
201858-009		Soil	50.24	5	1	0.09952		1			3630C	(rebatched)	
201858-010		Soil	50.17	5	1	0.09966		1			3630C	(rebatched)	
202038-003		Soil	50.09	5	1	0.09982		1			3630C	TEHM	
202043-001		Soil	50.27	5	1	0.09946		1			3630C	TEHM	mss
202043-002		Soil	50.35	5	1	0.0993		1			3630C	TEHM	
202043-003		Soil	50.01	5	1	0.09998		1			3630C	TEHM	
202043-004		Soil	50.21	5	1	0.09958		1			3630C	TEHM	
202043-005		Soil	50.43	5	1	0.09915		1			3630C	TEHM	
202043-006		Soil	50.22	5	1	0.09956		1			3630C	TEHM	
202043-007		Soil	50.32	5	1	0.09936		1			3630C	TEHM	
202043-008		Soil	50.11	5	1	0.09978		1			3630C	TEHM	See comment 1 below
202043-009		Soil	50.19	5	1	0.09962		1			3630C	TEHM	
QC433676	BLANK	Soil	50.26	5	1	0.09948		1			3630C		
QC433677	LCS	Soil	50.01	5	1	0.09998		1	1		3630C		
QC433678	MS	Soil	50.13	5	1	0.09974		1	1		3630C		
QC433679	MSD	Soil	50.16	5	1	0.09968		1	1		3630C		

Comment 1: small spill while pouring into funnel <1mL

JDG 03/21/08 : CAR 3826.

LH 03/21/08 : All weights have been reviewed and match the scanned documents.

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2628 Page 93

LIMS Batch No: 136175
LIMS Analysis TEH/M
Date Extracted: 3/19/08

Extraction Method:
☒ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
201858-001 A	50.03	5.0	X	
2	50.38			
3	50.03			
4	50.24			
5	50.32			
6	50.17			
7	50.23			
8	50.45			
9	50.24			
10	50.17			
202038-003 A	50.09			
202043-001 M	50.27			m ss
2 G	50.35			
3	50.01			
4	50.43 21 MFC 3/19/08			
5	50.22 43			
6	50.32 22			
7	50.11 32			
8	50.11 11			small spill while pouring into funnel <1mL
9	50.26 19			
MB QC 433676	50.26			
LCS 7	50.01			
MS 8	50.13			
MSD 9	50.16			
				MFC 3/19/08

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47281748	MFC 3/19/08
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47281804	
1.0 mL of Surrogate solution was added to all samples	S8587C	
1.0 mL of Matrix Spiking solution was added to all spikes	S86518	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM48028	
Acetone	EM47190	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	1800	
taken off shaker table at:	2000	MFC 3/19/08
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47281809	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	

3/19/08
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/19/08
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: MFC
Cleanup Date: 3/19/08

Benchbook # **BK 2679**
Page 46

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
201858-001	136775	1.0	1.0	
2				
3				
4				
5				
6				
7				
8				
9				
10				
202038-003				
202043-001				MSS
2				
3				
4				
5				
6				
7				
8				
9				
MB QC433676				
LCS 7				
MS 8				
MSD 9				
				MFC 3/19/08

☐ Extracts were cleaned up using C&T assembled ___ g columns
☑ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 4.0 mL CH_2Cl_2
Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
NA	MFC 3/19/08
SP9742	
EM48028	
✓	

3/19/08
Extraction Chemist / Date

Continued from page ___
Continued on page ___

3/14/08
Reviewed by / Date

Project SOIL ALIQUOT BK2627 151

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	BATCH#	COMMENTS
201858-001A	30.02	8081		
002	30.31			
003	30.41			
004	30.15			
005	30.16			
006	30.10			
007	30.32			
008	30.06			
009	30.30			
010	30.23			
011	30.35			
012	30.17			
013	30.17			
014	30.08			
015	30.10			
016	30.24			
017	30.16			
018	30.26			
019	30.07			
028	30.32			MS EM472817148 ↓ 201858-028A
MB	30.30			
LCS	30.11			
MS	30.27			
MSD	30.29			
201858-001A	50.03	TEHM	136175	
002	50.38			
003	50.03			
004	50.29			
005	50.32			
006	50.17			
007	50.23			
008	50.45			
009	50.29			
010	50.17			
011	50.07			
012	50.03			

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL ALIQUOT BK2627

Continued from Page 163

SAMPLE ID		WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
LCS		50.06	TEHM		EM47281748
MS		50.24	↓		201962-01GD
MSD		50.45	↓		↓
				MFC 3/18/08	
202001A-001A		30.21	8081		MSS
MB		30.04			EM47281748
LCS		30.05			↓
MS		30.09			202001A-001A
MSD		30.05	↓		↓
				MFC 3/18/08	
202024-001A		30.41	PCB		
202038-001A		30.18	↓		
↓	2	30.01			
↓	3 ↓	30.43			
202038-001A		30.02	8270		
↓	2	30.07	↓		
↓	3 ↓	30.04			
202038-001A		50.17	TEHM		
↓	2	50.16	↓		
↓	3 ↓	50.09		136175	
				SFH 3/19/08	
202043-001M		50.27	TEHM	136175	MSS
↓	2G	50.35	↓	↓	
↓	3	50.01 MFC 3/18/08			
↓	4	50.27 21			
↓	5	50.43			
↓	6	50.22			
↓	7	50.32			
↓	8	50.11			
↓	9 ↓	50.19			
MB		50.26			EM47281748
LCS		50.01			↓
MS		50.13			202043-001M
MSD		50.16	↓	↓	↓
					MFC 3/18/08

Continued on Page

Read and Understood By

Signed Date Signed Date

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2628 Page 93

LIMS Batch No: 136175
LIMS Analysis TEH/M
Date Extracted: 3/19/08

Extraction Method:
☑ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	201858-001 A	50.03	5.0	X	
	2	50.38			
	3	50.03			
	4	50.24			
5	5	50.32			
	6	50.17			
	7	50.23			
	8	50.45			
	9	50.24			
10	10	50.17			
	202038-003 A	50.09			
	202043-001 M	50.27			m ss
	2 G	50.35			
	3	50.01			
15	4	50.43 21 MFC 3/19/08			
	5	50.22 43			
	6	50.32 22			
	7	50.44 32			
	8	50.44 11			small spill while pouring into funnel <1mL
20	9	50.26 19			
	MB QC 433676	50.26			
	LCS 7	50.01			
	MS 8	50.13			
	MSD 9	50.16			
					MFC 3/19/08

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM47281748	MFC 3/19/08
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM47281804	
1.0 mL of Surrogate solution was added to all samples	S8587C	
1.0 mL of Matrix Spiking solution was added to all spikes	S86518	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM48028	
Acetone	EM47190	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	1800	
taken off shaker table at:	2000	MFC 3/19/08
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47281804	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	

3/19/08
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/19/08
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: SFH
Cleanup Date: 3/19/08

Benchbook # **BK 2679**
Page 44

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
201959-010	136132	1.0	1.0	
11				
12				
13				
14				
15				
201962-002				
3				
5				
6				
7				
8				
10				
11				
12				
13				
15				
16				MSS
MB QC433498				
LCS	499			
MS	500			
MSD	501			
				SFH 3/19/08

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ___ g columns	NA	SFH 3/19/08
☒ Extracts were cleaned up using 1.0 g cartridges	SP 9742	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM 48028	
Concentrated to volumes as noted above	✓	

3/19/08
Extraction Chemist / Date

Continued from page ___
Continued on page ___

3/20/08
Reviewed by / Date

00065

Project Soil Aliquot BK2627

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH#	COMMENTS
201959-001 A	30.26	PCB		
2	30.42			
3	30.17			
4	30.05			
5 MPC 3/18/08	~~30.~~ 29.90			
6	30.18			
7	30.22			
8	30.18			
9	30.06			
10	30.25			
11	30.08			
12	29.97			mgs EM472817748 → 201959-012A
MB	30.22			
LCS	30.12			
MS	29.92			
MSD	30.25			
201959-013 D	30.21			
14 G	30.01			
15 D MPC 3/18/08	~~25.~~ 30.19			
201959-010 A	50.37	TEHM	36132	
11	50.45			
12	50.45			
13 D	50.04			
14 G	50.48			
15 D	25.24			Limited Sample MPC 3/18/08

Continued on Page

Read and Understood By

Signed Date Signed Date

SAMPLE ID		WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
202004-014A		50.13	TEHM		
MB		50.11			EM4728174B
LCS		50.16			↓
MS		50.08			202004-001A
MSD		50.22			↓
202004-004A		30.21	PCB		
↓	5	30.08			
	6	30.04			
	8	30.04			
	10	30.37			
	12	30.07			MSS
	13	30.05			
↓	14 ↓	30.07			
MB		30.01			EM4728174B
LCS		30.10			↓
MS		30.27			202004-012A
MSD		30.04			↓
					MFC 3/13/08
201962-001A		30.16	8081		
↓	9	30.00			
	14 ↓	30.01	↓		
201962-002D		50.35	TEHM	136132	
↓	3G	50.13			
	5G	50.05			
	6D	50.09			
	7G	50.02			
	8D	50.25			
	10G	50.37			
	11D	50.04			
	12G	50.38			
	13D	50.07			
	15G	50.46			
↓	16D	50.24	↓		MSS
201977-003A		50.23	TEH		
↓	4 ↓	50.33	↓		
MB		50.00	TEHM	↓	EM4728174B

Continued on Page 163

MFC 3/13/08

164

Read and Understood By

Signed Date Signed Date

Project SOIL ALIQUOT

BK2627

Continued from Page 163

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
LCS	50.06	TEHM	136132	EM47281748
MS	50.24	↓	↓	201962-016D
MSD	50.45	↓	↓	↓
				MFC 3/18/08

Continued on Page

Read and Understood By

Signed Date Signed Date

Sample Raw Data

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC15B	Lab ID	: 202043-001 (S)	Client ID	: 1065EX307[6.0]
Seqnum	: 168114200090	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 079b090	Batch	: 136175	Time	: 21-MAR-2008 03:19
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.27 g --> 5.0 ml = 0.09946 ml/g PDF

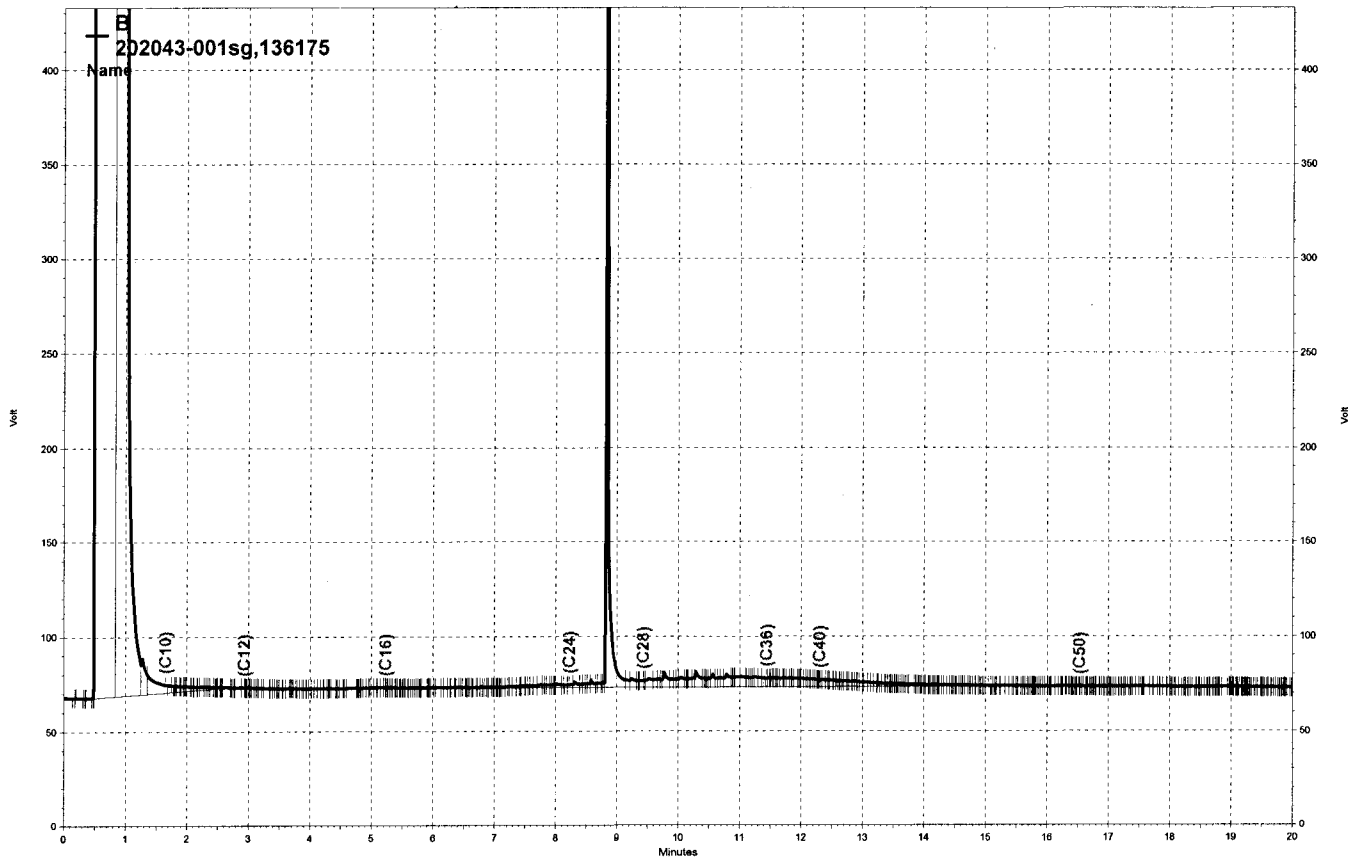
Analyte	Cal	Raw	Result	RL	Blank	Quanted As	Flags
Diesel C12-C24	167416763001	5.441	0.54 J	0.99			u
Fuel Oil C24-C36	167416763002	41.36	4.1 J	5.0	0.83	MO:24-36	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	167479943001	43.14	4.973	4.291	86	65-135	u

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

168114200090



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b090, B

Sample Name: **202043-001sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b090**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 3:19:58 AM
Analysis Date: 3/21/2008 8:27:06 AM
Instrument: GC15B Vial: 90 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	135701	6.064
JP8:10-16	135701	5.974
KER:10-16	135701	5.071
JP5:10-16	135701	5.175
DSL:10-20	171802	6.273
DSL:10-22	196815	6.830
DSL:10-24	249396	8.529
DSL:12-22	89202	3.480
DSL:10-28	1583906	53.697
DSL:12-24	141783	5.441
DSL:12-32	1759487	66.728
BUNKC:12-40	2259926	241.565
TROIL:12-40	2259926	78.027
HYFL:12-40	2259926	92.669
MO:20-36	1971367	77.951
MO:22-36	1946354	85.758
MO:24-36	1893773	104.008
BUNKC:12-50	2508156	0.000
DSL:10-12	107613	0.000
DSL:12-16	28088	0.000
DSL:16-24	113695	0.000
MO:28-36	559263	69.978
MO:28-40	783633	92.841
MO:22-32	1670285	80.729
DSL:12-14	9705	0.000
DSL:14-16	18383	0.000
DSL:16-18	16948	0.000
DSL:18-20	19153	0.000
DSL:20-22	25013	0.000
DSL:22-24	52581	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

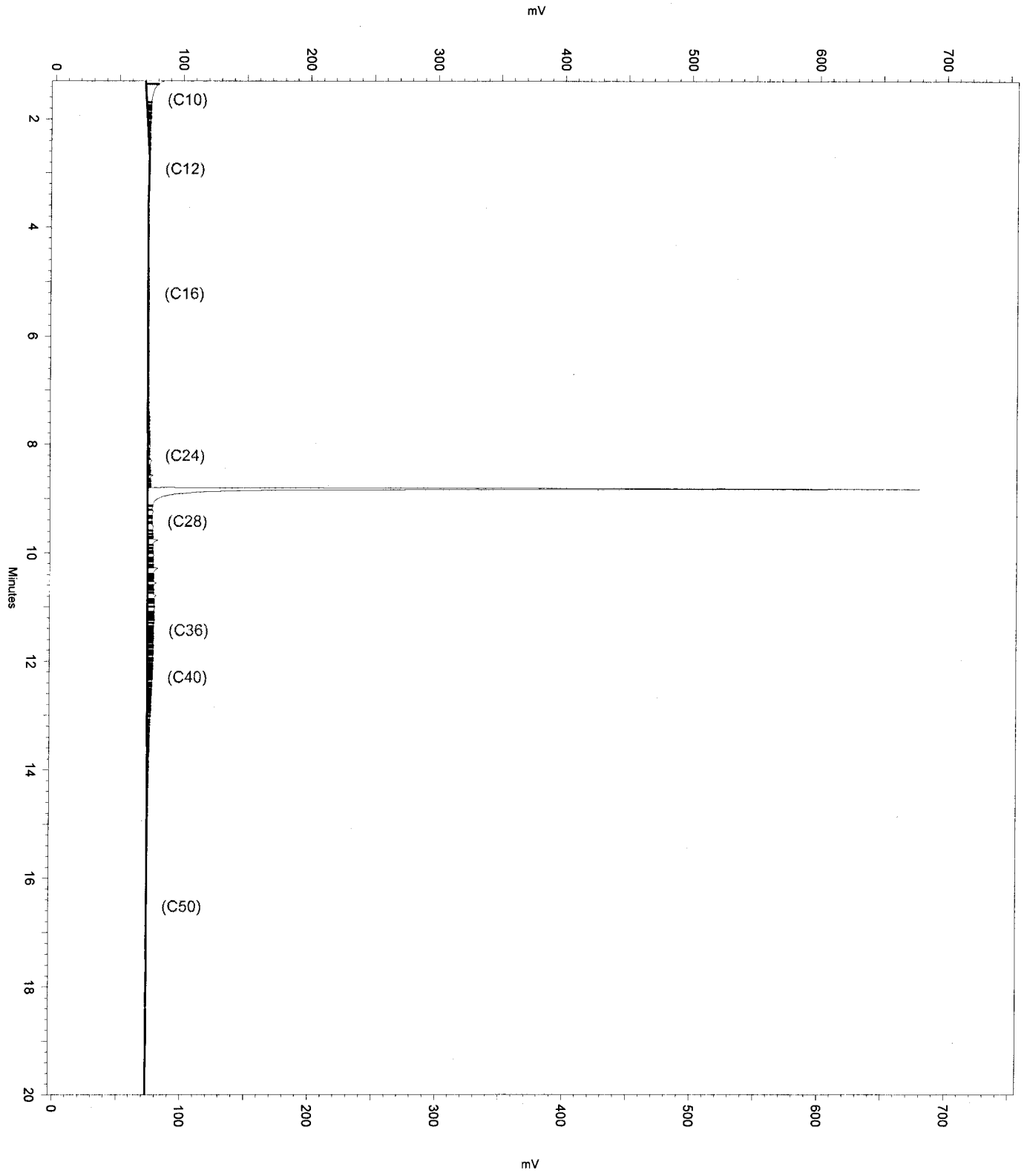
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b090

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	2.118	0.487	0
Yes	Move BL Start	15.167	3.943	0

Sample Name: **202043-001sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b090**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 3:19:58 AM
Analysis Date: 3/21/2008 8:27:06 AM
Instrument: GC15B Vial: 90 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

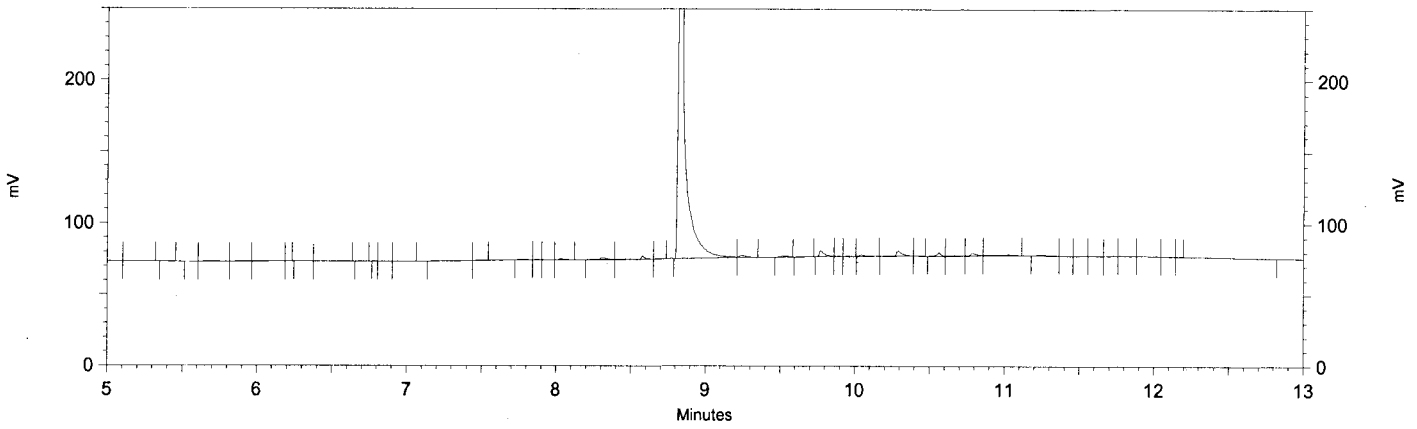
Sample Name: **202043-001sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b090**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 3:19:58 AM
Analysis Date: 3/21/2008 8:16:59 AM
Instrument: GC15B Vial: 90 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.837	1140662	43.144



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b090

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC15B	Lab ID	: 202043-002 (S)	Client ID	: 1065EX308[6.0]
Seqnum	: 168114200094.1	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 079b094	Batch	: 136175	Time	: 21-MAR-2008 05:10
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.35 g --> 5.0 ml = 0.0993 ml/g PDF

Analyte	Cal	Raw	Result	RL	Blank	Quanted As	Flags
Diesel C12-C24	167416763001	14.85	1.5	0.99			Y u
Fuel Oil C24-C36	167416763002	50.28	5.0	5.0	0.83	MO:24-36	u

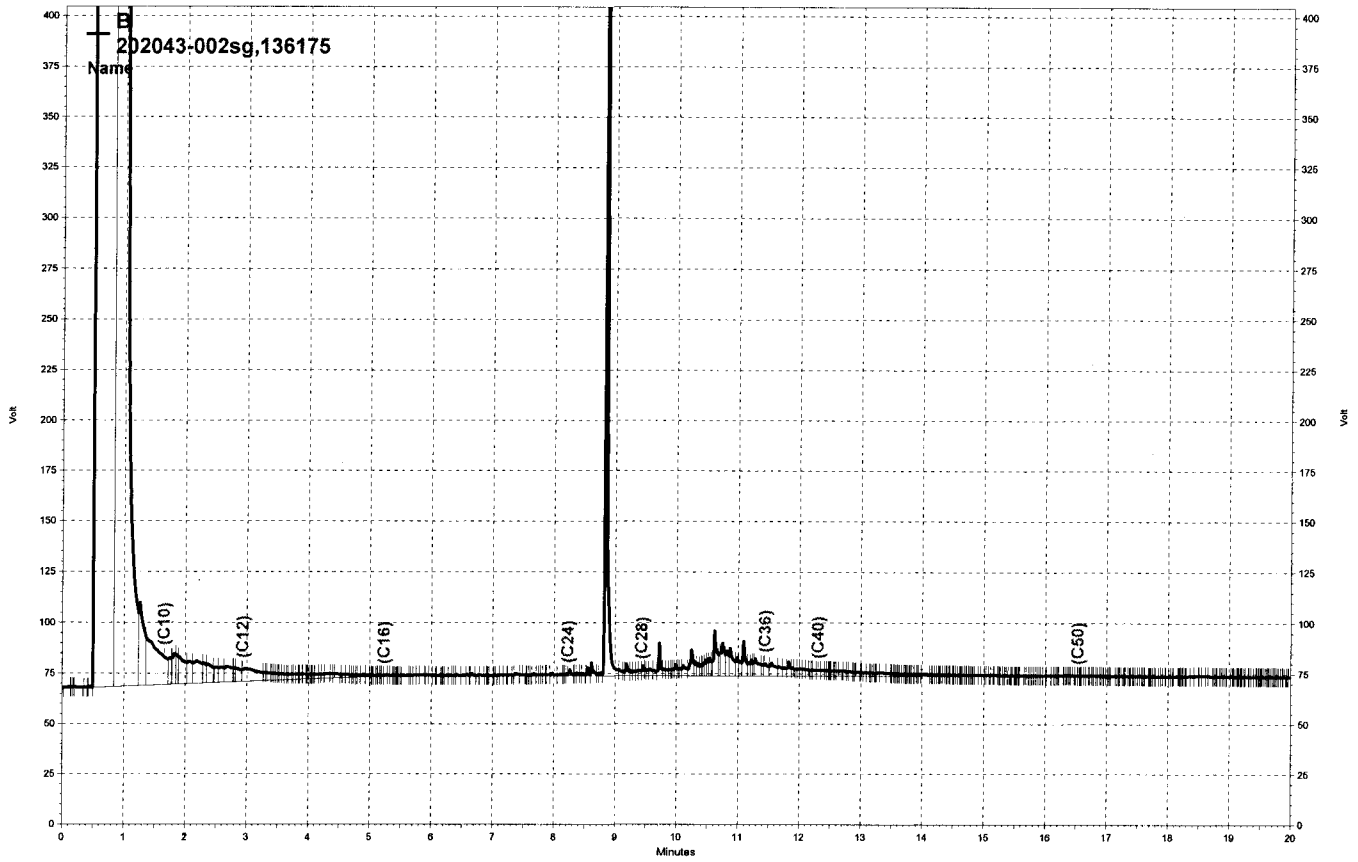
Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	167479943001	39.82	4.965	3.954	80	65-135	u

LH 03/21/08 [Fuel Oil C24-C36 B]: removed Y flag

Analyst: LH Date: 03/21/08 Reviewer: JDG Date: 03/24/08

Y=does not resemble standard u=use

168114200094.1



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b094, B

Sample Name: **202043-002sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b094**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 5:10:26 AM
Analysis Date: 3/21/2008 8:29:48 AM
Instrument: GC15B Vial: 94 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	1014101	45.315
JP8:10-16	1014101	44.641
KER:10-16	1014101	37.899
JP5:10-16	1014101	38.674
DSL:10-20	1031947	37.681
DSL:10-22	1042625	36.182
DSL:10-24	1063445	36.367
DSL:12-22	366063	14.281
DSL:10-28	2245523	76.127
DSL:12-24	386883	14.847
DSL:12-32	1850229	70.169
BUNKC:12-40	2561091	273.757
TROIL:12-40	2561091	88.425
HYFL:12-40	2561091	105.018
MO:20-36	1999801	79.075
MO:22-36	1989123	87.643
MO:24-36	1968303	108.101
BUNKC:12-50	2826328	0.000
DSL:10-12	676562	0.000
DSL:12-16	337539	0.000
DSL:16-24	49344	0.000
MO:28-36	786225	98.377
MO:28-40	992130	117.542
MO:22-32	1484166	71.733
DSL:12-14	277718	0.000
DSL:14-16	59821	0.000
DSL:16-18	9941	0.000
DSL:18-20	7905	0.000
DSL:20-22	10678	0.000
DSL:22-24	20820	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

Manual Integration Fixes

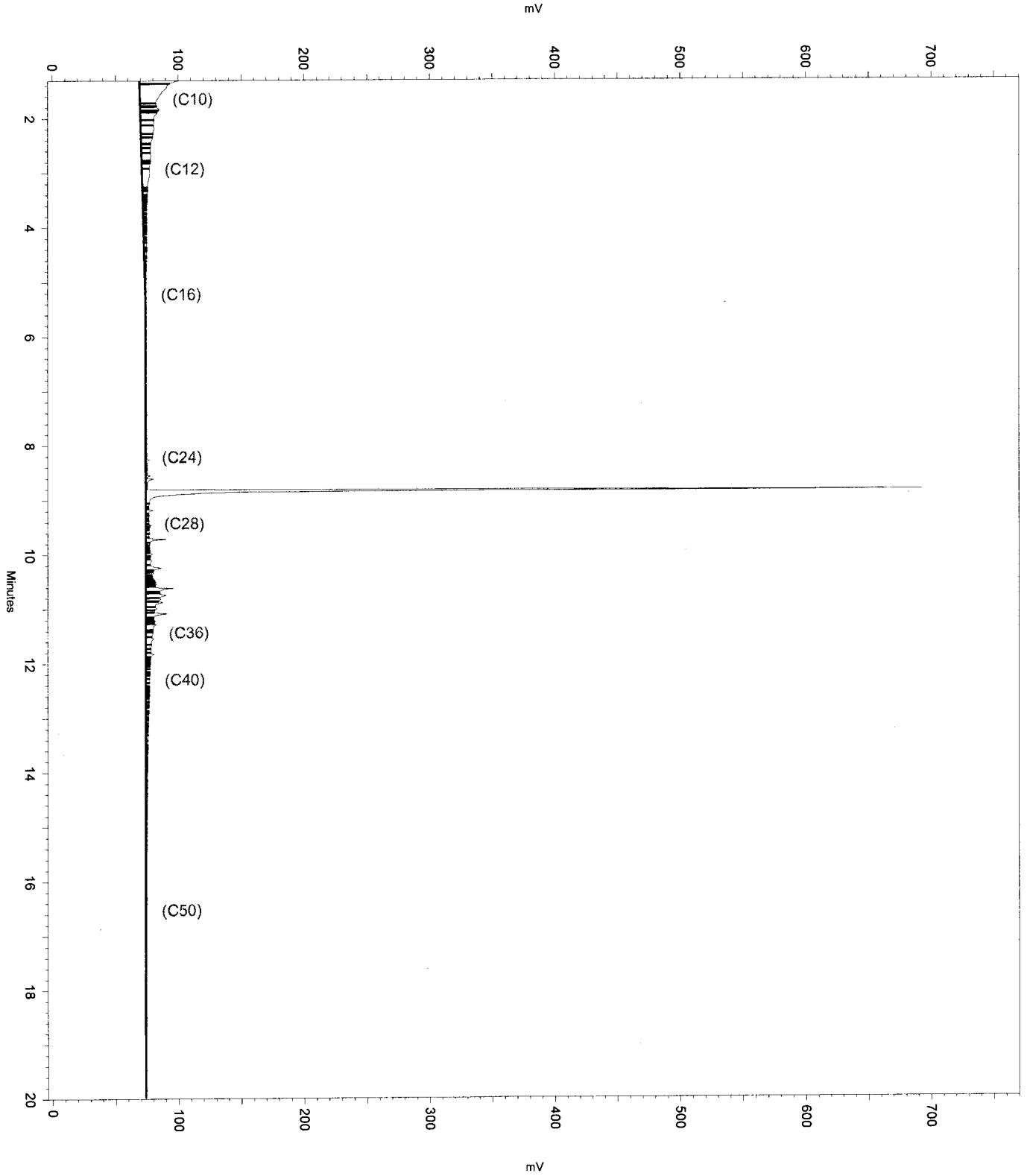
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b094

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

: 00077

Yes	Move BL Start	5.058	0.497	0
Yes	Move BL Stop	7.043	17.707	0

Sample Name: **202043-002sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b094**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 5:10:26 AM
Analysis Date: 3/21/2008 8:29:48 AM
Instrument: GC15B Vial: 94 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

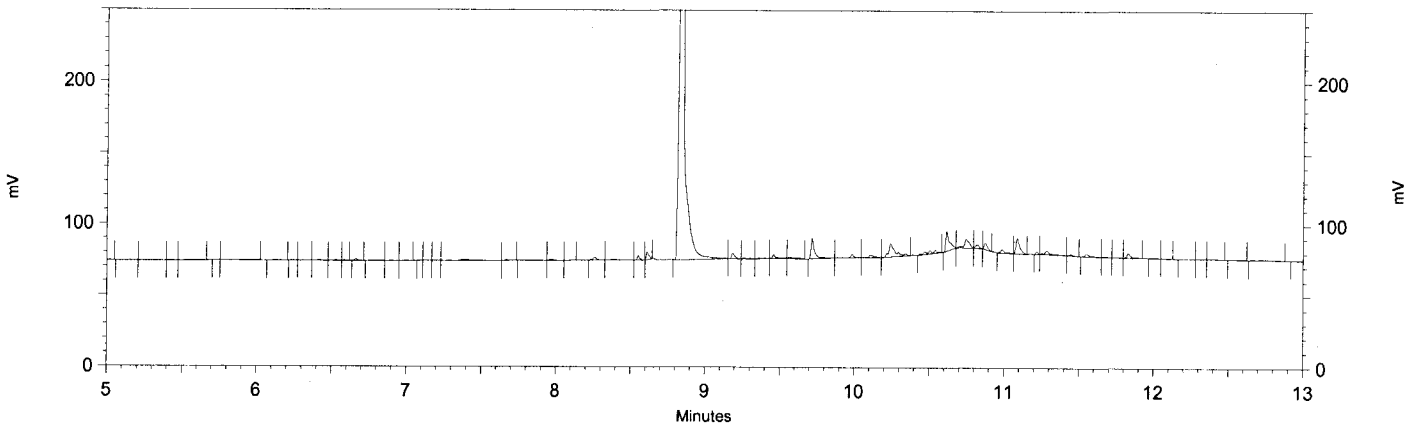
Sample Name: **202043-002sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b094**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 5:10:26 AM
Analysis Date: 3/21/2008 8:17:09 AM
Instrument: GC15B Vial: 94 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.843	1052796	39.821



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b094

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC15B	Lab ID	: 202043-003 (S)	Client ID	: 1065EX309[6.5]
Seqnum	: 168114200086	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 079b086	Batch	: 136175	Time	: 21-MAR-2008 01:29
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.01 g --> 5.0 ml = 0.09998 ml/g PDF

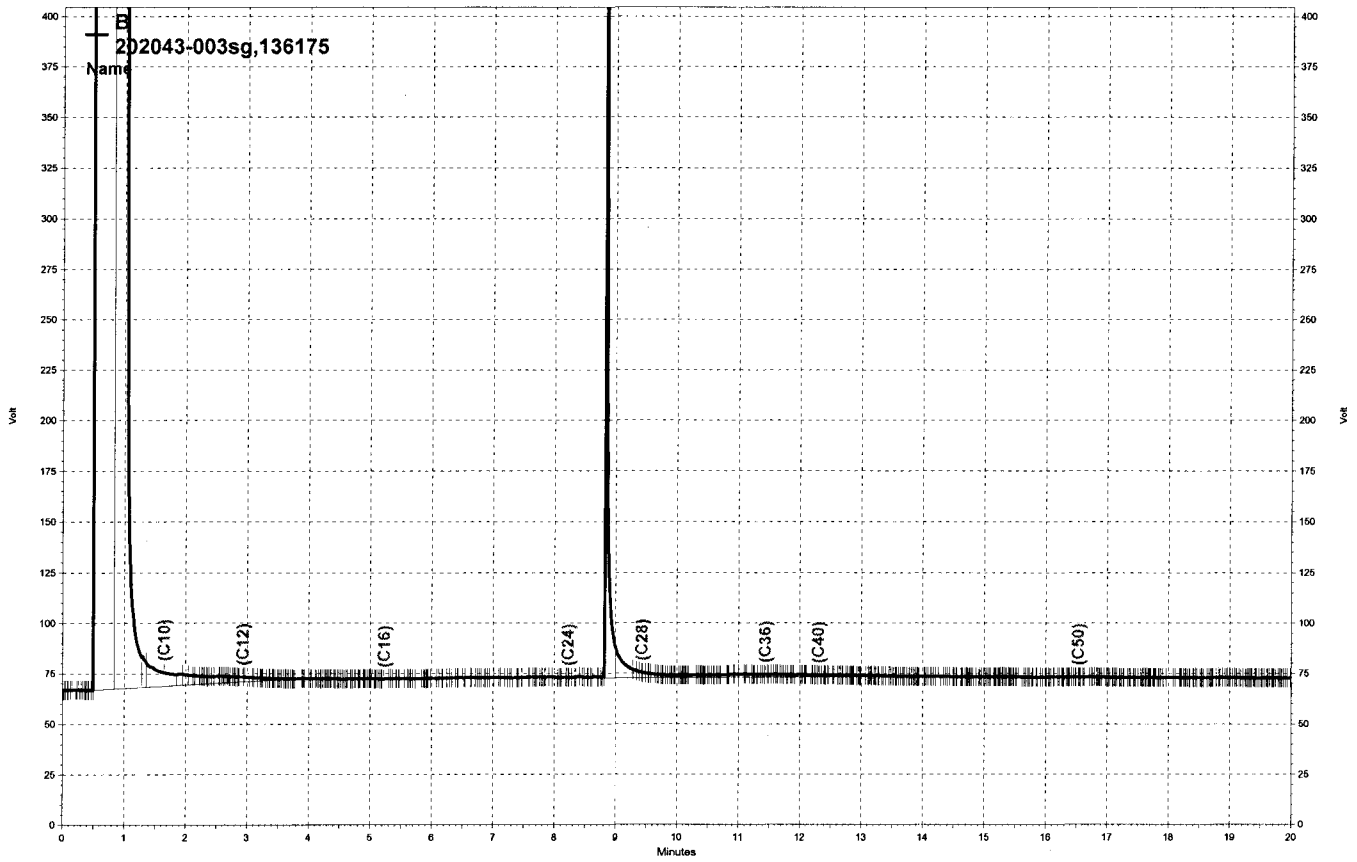
Analyte	Cal	Raw	Result	RL	Blank	Quanted As	Flags
Diesel C12-C24	167416763001	4.792	0.48 J	1.0			u
Fuel Oil C24-C36	167416763002	10.45	1.0 J	5.0	0.83	MO:24-36	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	167479943001	37.17	4.999	3.716	74	65-135	u

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

168114200086



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b086, B

Sample Name: **202043-003sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b086**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 1:29:38 AM
Analysis Date: 3/21/2008 8:24:01 AM
Instrument: GC15B Vial: 86 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	297257	13.283
JP8:10-16	297257	13.085
KER:10-16	297257	11.109
JP5:10-16	297257	11.336
DSL:10-20	326988	11.940
DSL:10-22	342044	11.870
DSL:10-24	366271	12.526
DSL:12-22	100646	3.926
DSL:10-28	1370386	46.458
DSL:12-24	124873	4.792
DSL:12-32	1223774	46.411
BUNKC:12-40	1360383	145.412
TROIL:12-40	1360383	46.969
HYFL:12-40	1360383	55.783
MO:20-36	1212096	47.928
MO:22-36	1197040	52.743
MO:24-36	1172813	64.412
BUNKC:12-50	1427725	0.000
DSL:10-12	241398	0.000
DSL:12-16	55859	0.000
DSL:16-24	69014	0.000
MO:28-36	168698	21.109
MO:28-40	231395	27.414
MO:22-32	1123128	54.283
DSL:12-14	47791	0.000
DSL:14-16	8068	0.000
DSL:16-18	9878	0.000
DSL:18-20	19853	0.000
DSL:20-22	15056	0.000
DSL:22-24	24227	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

Manual Integration Fixes

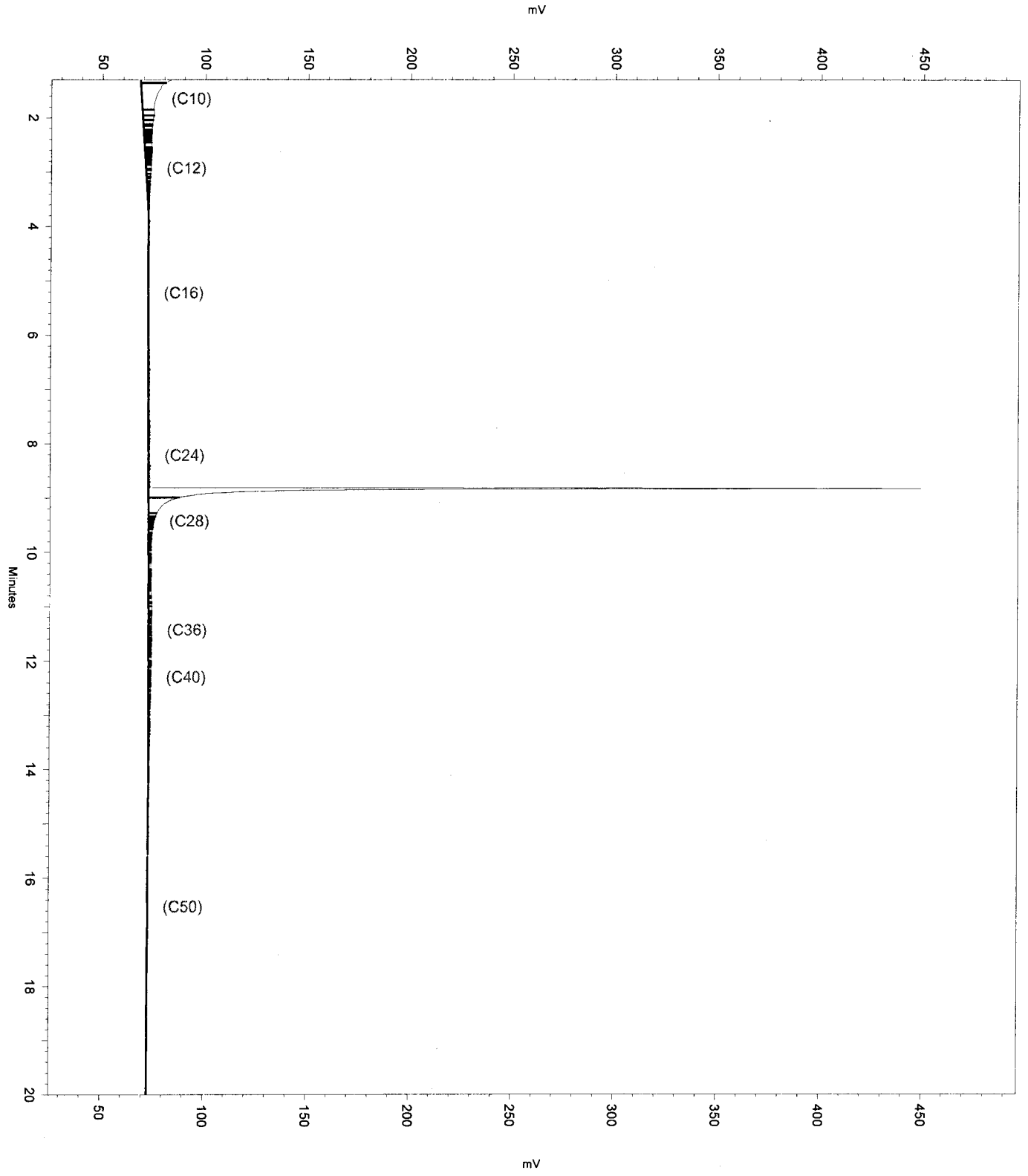
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b086

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

00093

Yes	Move BL Start	3.592	0.497	0
Yes	Move BL Stop	4.04	4.576	0
Yes	Move BL Stop	5.028	5.193	0
Yes	Move BL Stop	5.977	13.937	0

Sample Name: **202043-003sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b086**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 1:29:38 AM
Analysis Date: 3/21/2008 8:24:01 AM
Instrument: GC15B Vial: 86 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

00085

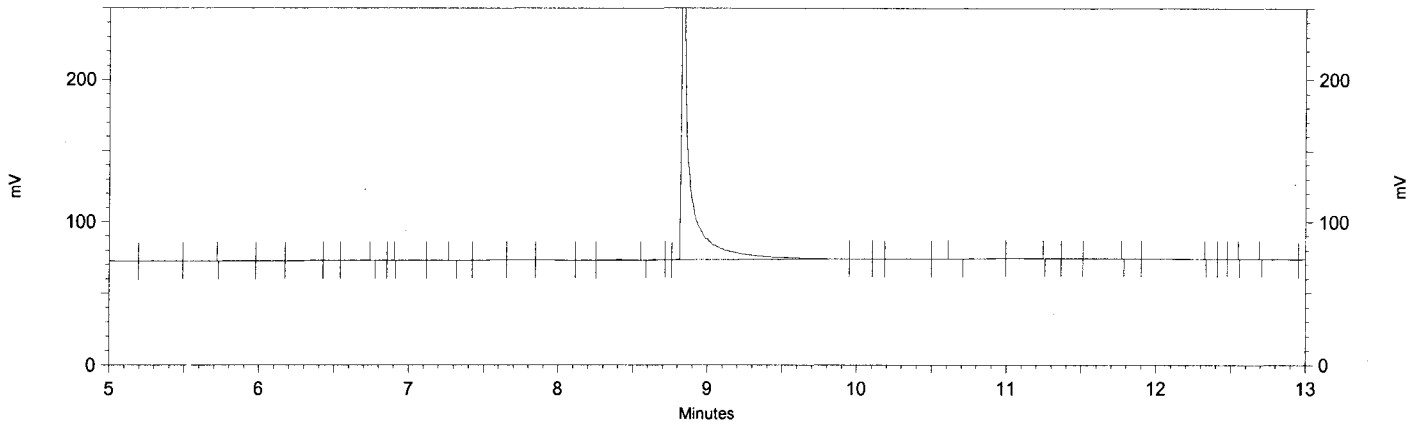
Sample Name: **202043-003sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b086**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 1:29:38 AM
Analysis Date: 3/21/2008 8:16:50 AM
Instrument: GC15B Vial: 86 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.837	982597	37.165



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b086

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC15B	Lab ID	: 202043-004 (S)	Client ID	: 1065EX310[7.0]
Seqnum	: 168114200087	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 079b087	Batch	: 136175	Time	: 21-MAR-2008 01:57
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.21 g --> 5.0 ml = 0.09958 ml/g PDF

Analyte	Cal	Raw	Result	RL	Blank	Quanted As	Flags
Diesel C12-C24	167416763001	2.317	0.23 J	1.0			u
Fuel Oil C24-C36	167416763002	1.768	ND	5.0	0.83	MO:24-36	u

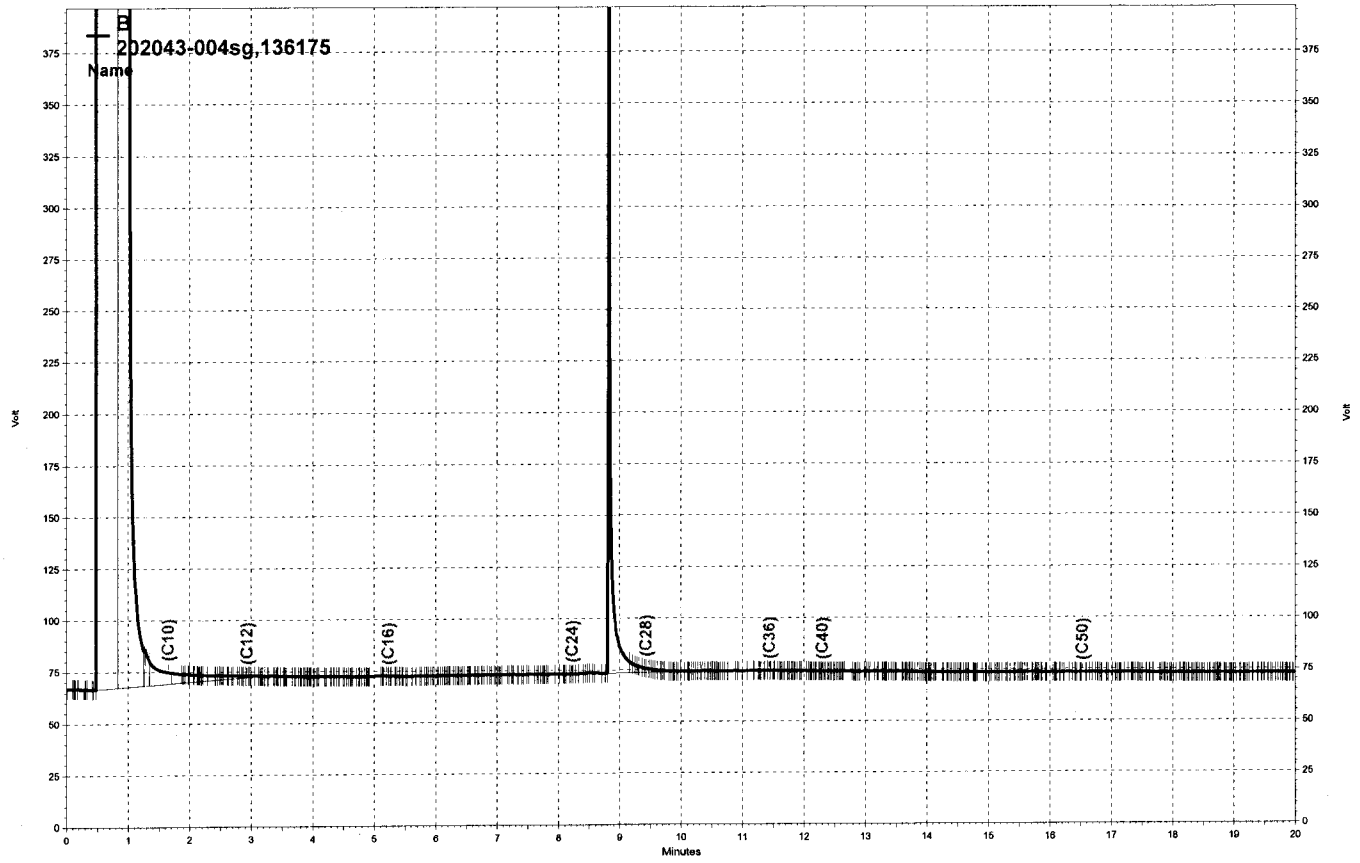
Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	167479943001	37.38	4.979	3.722	75	65-135	u

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

168114200087

: 00087



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b087, B

Sample Name: **202043-004sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b087**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 1:57:05 AM
Analysis Date: 3/21/2008 8:24:25 AM
Instrument: GC15B Vial: 87 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	218435	9.761
JP8:10-16	218435	9.616
KER:10-16	218435	8.163
JP5:10-16	218435	8.330
DSL:10-20	236936	8.652
DSL:10-22	245758	8.529
DSL:10-24	252351	8.630
DSL:12-22	53795	2.099
DSL:10-28	1227663	41.620
DSL:12-24	60388	2.317
DSL:12-32	1074115	40.736
BUNKC:12-40	1083604	115.827
TROIL:12-40	1083604	37.413
HYFL:12-40	1083604	44.433
MO:20-36	1035836	40.959
MO:22-36	1027014	45.251
MO:24-36	1020421	56.042
BUNKC:12-50	1108520	0.000
DSL:10-12	191963	0.000
DSL:12-16	26472	0.000
DSL:16-24	33916	0.000
MO:28-36	45109	5.644
MO:28-40	47904	5.675
MO:22-32	1020320	49.314
DSL:12-14	17075	0.000
DSL:14-16	9397	0.000
DSL:16-18	9077	0.000
DSL:18-20	9424	0.000
DSL:20-22	8822	0.000
DSL:22-24	6593	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

Manual Integration Fixes

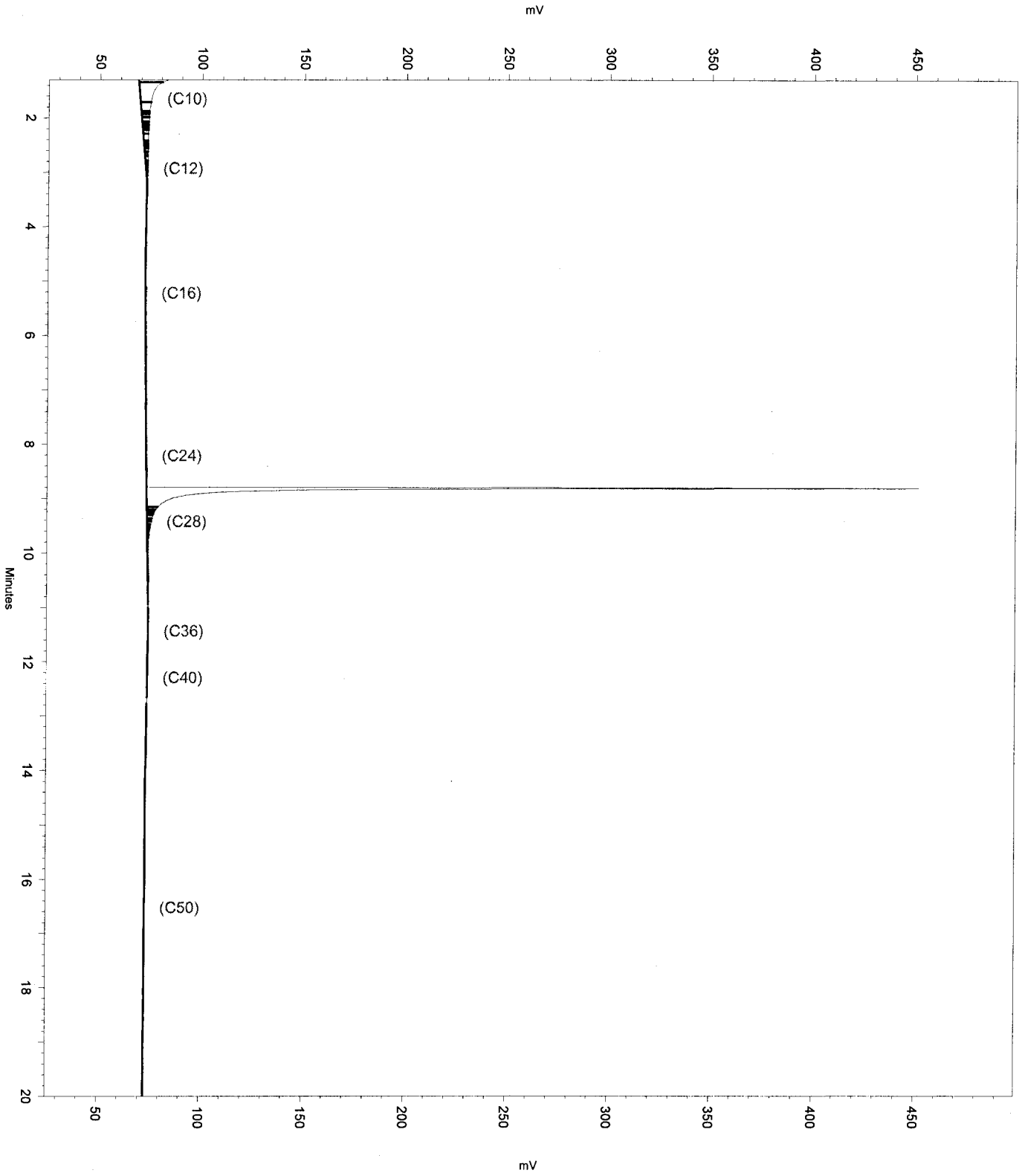
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b087

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

00089

Yes	Move BL Start	2.683	0.483	0

Sample Name: **202043-004sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b087**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 1:57:05 AM
Analysis Date: 3/21/2008 8:24:25 AM
Instrument: GC15B Vial: 87 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

: 00091

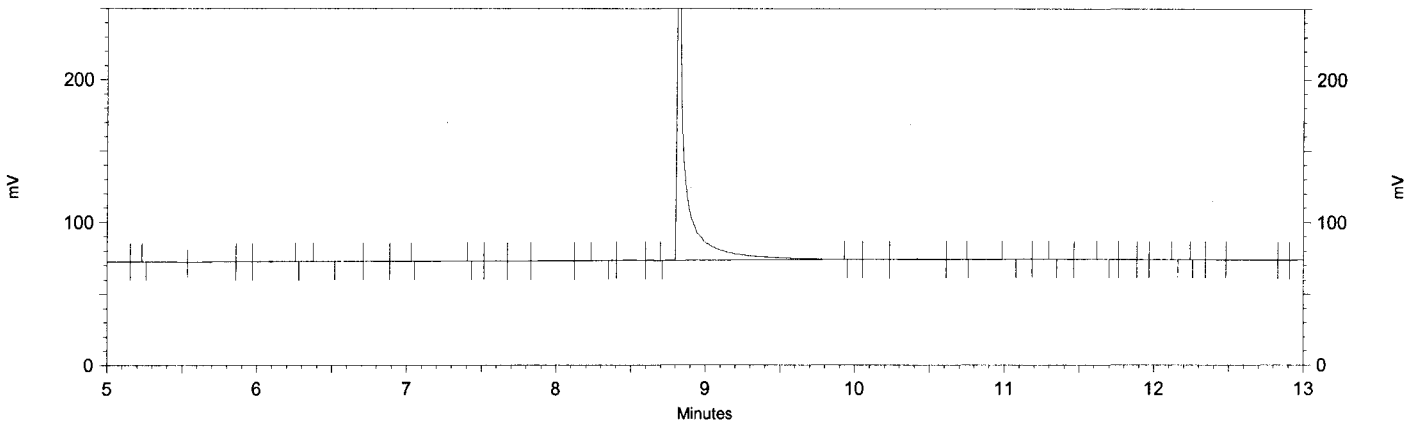
Sample Name: **202043-004sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b087**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 1:57:05 AM
Analysis Date: 3/21/2008 8:16:52 AM
Instrument: GC15B Vial: 87 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.822	988237	37.379



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b087

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC15B	Lab ID	: 202043-005 (S)	Client ID	: 1065EX311[8.5]
Seqnum	: 168117153005	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 081b005	Batch	: 136175	Time	: 21-MAR-2008 10:26
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.43 g --> 5.0 ml = 0.09915 ml/g PDF

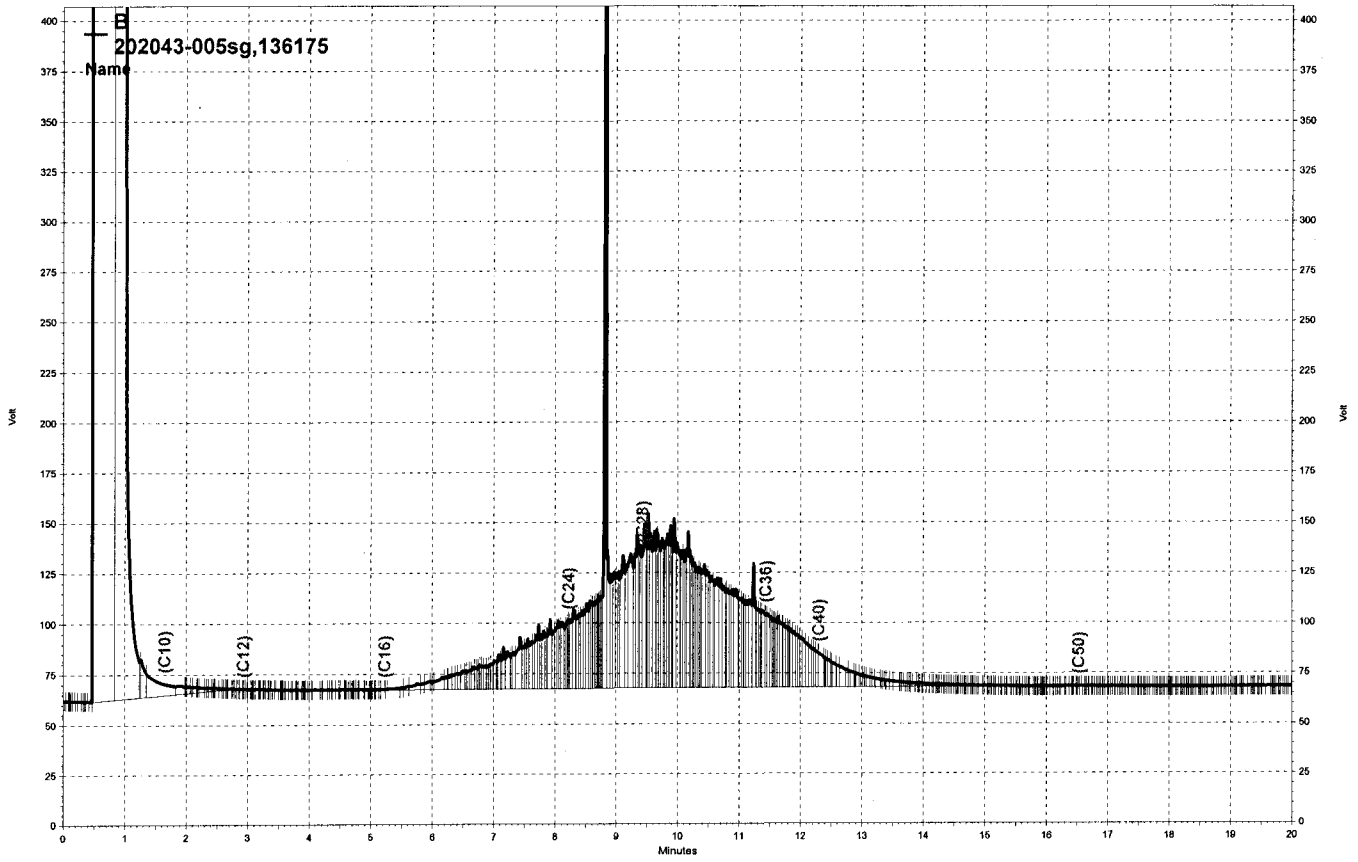
Analyte	Cal	Raw	Result	RL	Blank	Quanted As	Flags
Diesel C12-C24	167416763001	87.21	8.6	0.99			Y u
Fuel Oil C24-C36	167416763002	579.0	57	5.0	0.83	MO:24-36	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	167479943001	37.83	4.957	3.751	76	65-135	u

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

Y=does not resemble standard u=use

168117153005



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b005, B

Sample Name: **202043-005sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b005**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 10:26:40 AM
Analysis Date: 3/21/2008 10:48:47 AM
Instrument: GC15B Vial: 5 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	128692	5.751
JP8:10-16	128692	5.665
KER:10-16	128692	4.810
JP5:10-16	128692	4.908
DSL:10-20	578183	21.112
DSL:10-22	1248858	43.339
DSL:10-24	2388607	81.685
DSL:12-22	1132817	44.194
DSL:10-28	6954769	235.779
DSL:12-24	2272566	87.210
DSL:12-32	11202330	424.845
BUNKC:12-40	15253414	1630.448
TROIL:12-40	15253414	526.643
HYFL:12-40	15253414	625.470
MO:20-36	13352361	527.974
MO:22-36	12681686	558.768
MO:24-36	11541937	633.894
BUNKC:12-50	15687540	0.000
DSL:10-12	116041	0.000
DSL:12-16	12651	0.000
DSL:16-24	2259915	0.000
MO:28-36	6975775	872.853
MO:28-40	8414686	996.928
MO:22-32	10069513	486.682
DSL:12-14	4968	0.000
DSL:14-16	7683	0.000
DSL:16-18	77679	0.000
DSL:18-20	371812	0.000
DSL:20-22	670675	0.000
DSL:22-24	1139749	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

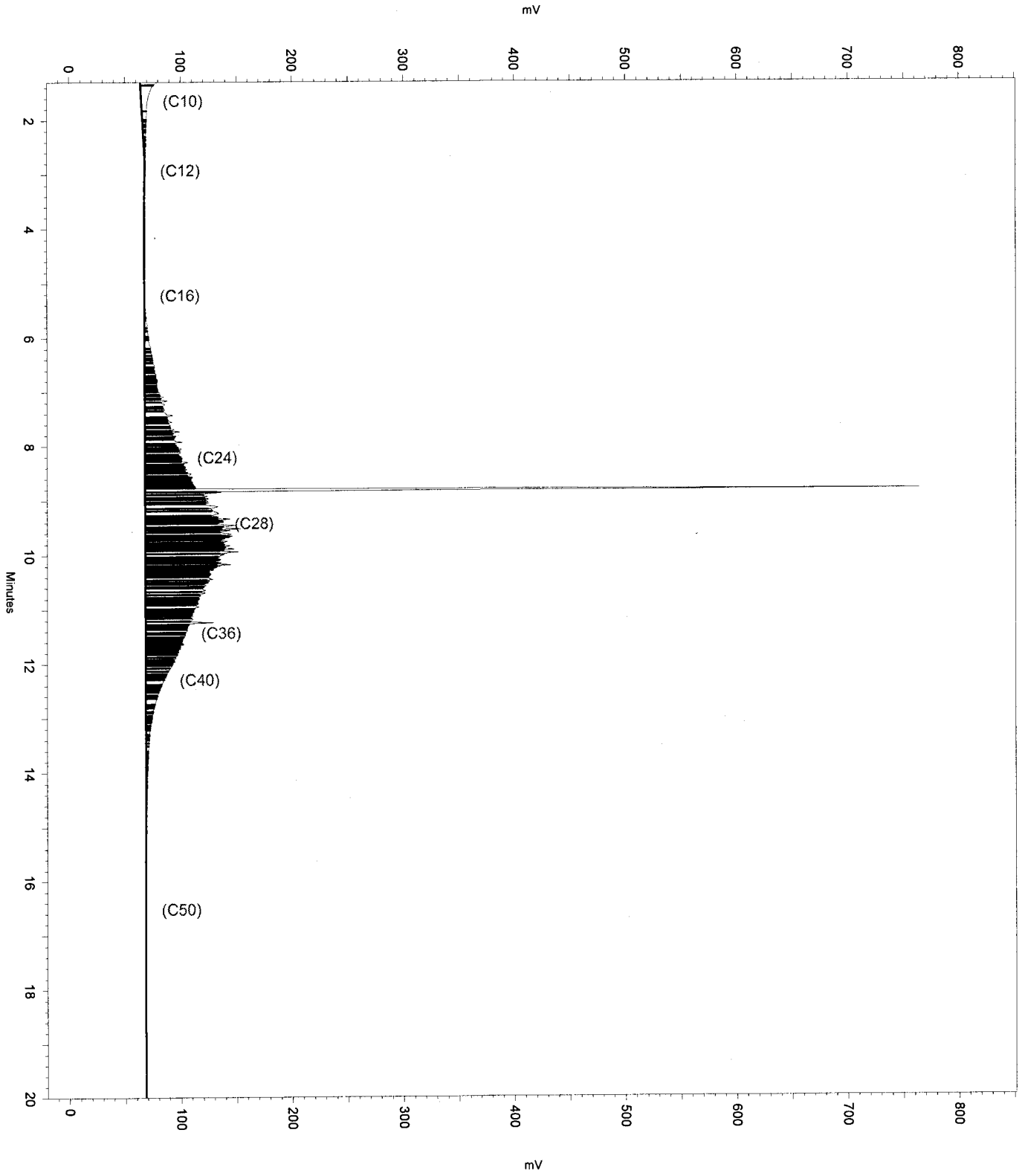
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	2.603	0.475	0
Yes	Move BL Start	14.897	4.993	0

Sample Name: **202043-005sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b005**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 10:26:40 AM
Analysis Date: 3/21/2008 10:48:47 AM
Instrument: GC15B Vial: 5 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

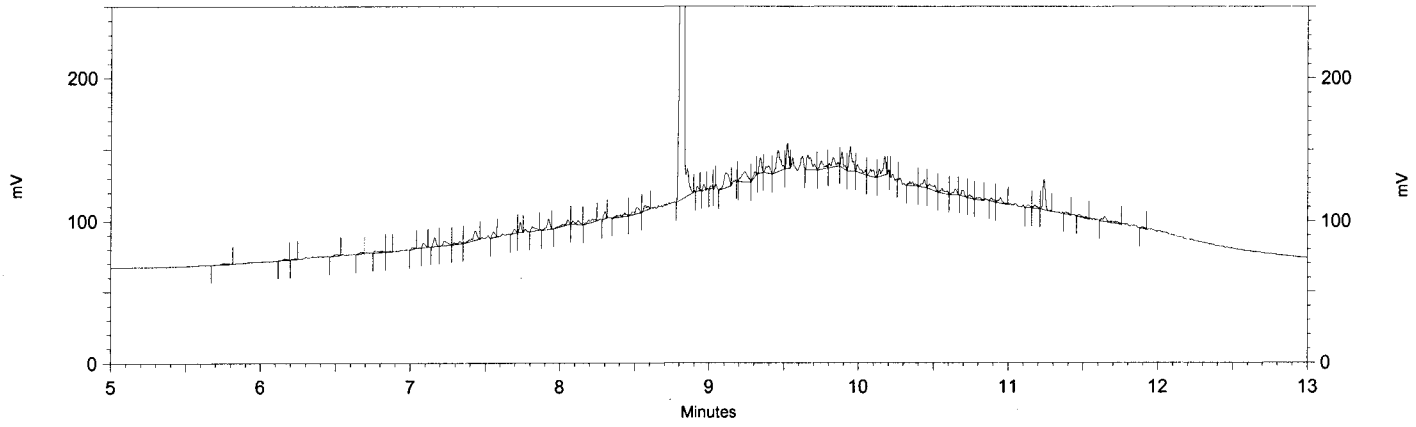
Sample Name: **202043-005sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b005**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 10:26:40 AM
Analysis Date: 3/21/2008 10:46:49 AM
Instrument: GC15B Vial: 5 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.825	1000258	37.833



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\081b005_7A05.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC15B	Lab ID	: 202043-006 (S)	Client ID	: DUP031908
Seqnum	: 168114200088	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 079b088	Batch	: 136175	Time	: 21-MAR-2008 02:24
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.22 g --> 5.0 ml = 0.09956 ml/g PDF

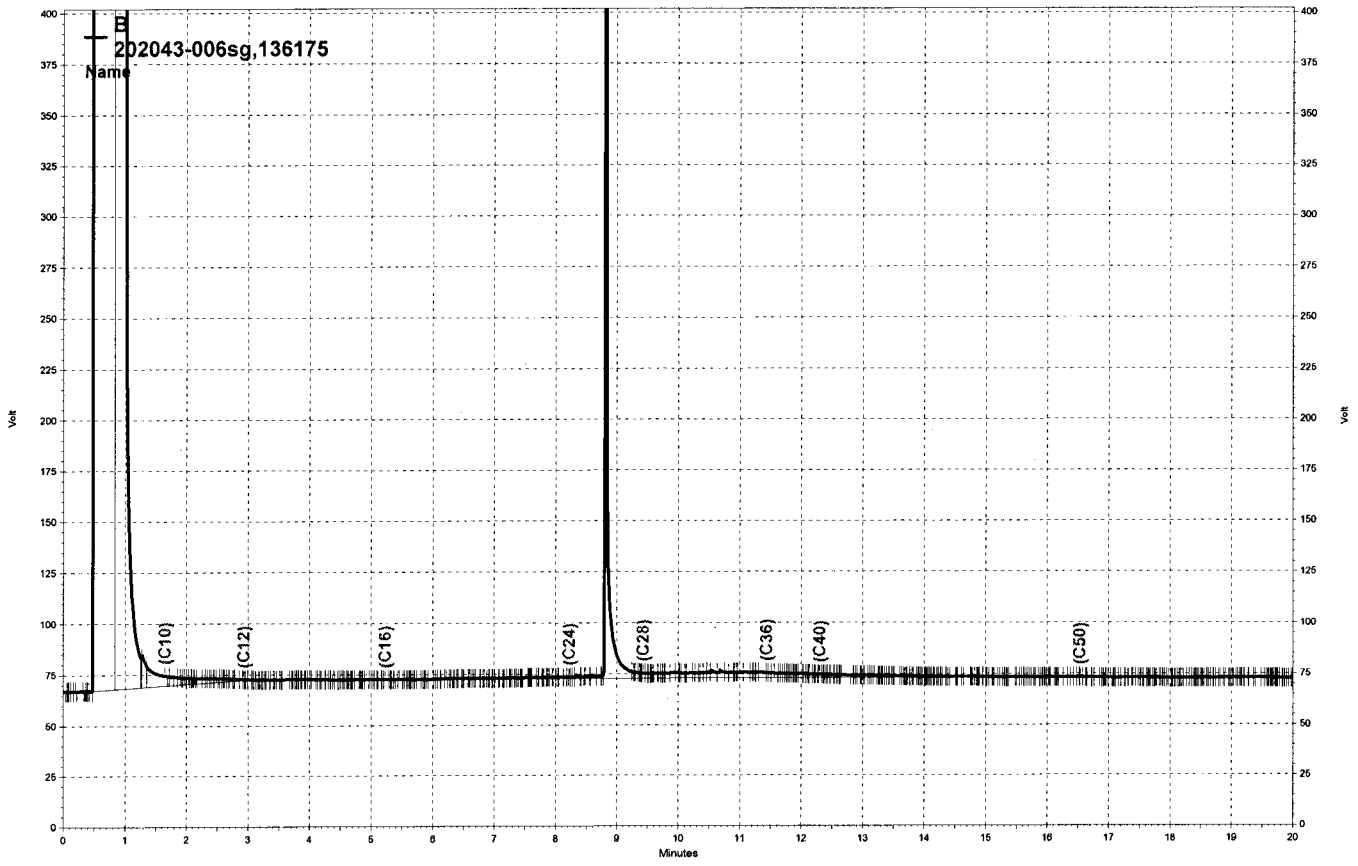
Analyte	Cal	Raw	Result	RL	Blank	Quanted As	Flags
Diesel C12-C24	167416763001	3.766	0.37 J	1.0			u
Fuel Oil C24-C36	167416763002	23.22	2.3 J	5.0	0.83	MO:24-36	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	167479943001	46.69	4.978	4.649	93	65-135	u

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

168114200088



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b088, B

Sample Name: **202043-006sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b088**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 2:24:34 AM
Analysis Date: 3/21/2008 8:25:15 AM
Instrument: GC15B Vial: 88 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	168850	7.545
JP8:10-16	168850	7.433
KER:10-16	168850	6.310
JP5:10-16	168850	6.439
DSL:10-20	190474	6.955
DSL:10-22	212216	7.365
DSL:10-24	244637	8.366
DSL:12-22	65722	2.564
DSL:10-28	1580588	53.585
DSL:12-24	98143	3.766
DSL:12-32	1595807	60.521
BUNKC:12-40	1857126	198.509
TROIL:12-40	1857126	64.120
HYFL:12-40	1857126	76.152
MO:20-36	1711339	67.669
MO:22-36	1689597	74.445
MO:24-36	1657176	91.014
BUNKC:12-50	1988981	0.000
DSL:10-12	146494	0.000
DSL:12-16	22356	0.000
DSL:16-24	75787	0.000
MO:28-36	321225	40.194
MO:28-40	423032	50.119
MO:22-32	1530085	73.952
DSL:12-14	17072	0.000
DSL:14-16	5284	0.000
DSL:16-18	5277	0.000
DSL:18-20	16347	0.000
DSL:20-22	21742	0.000
DSL:22-24	32421	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

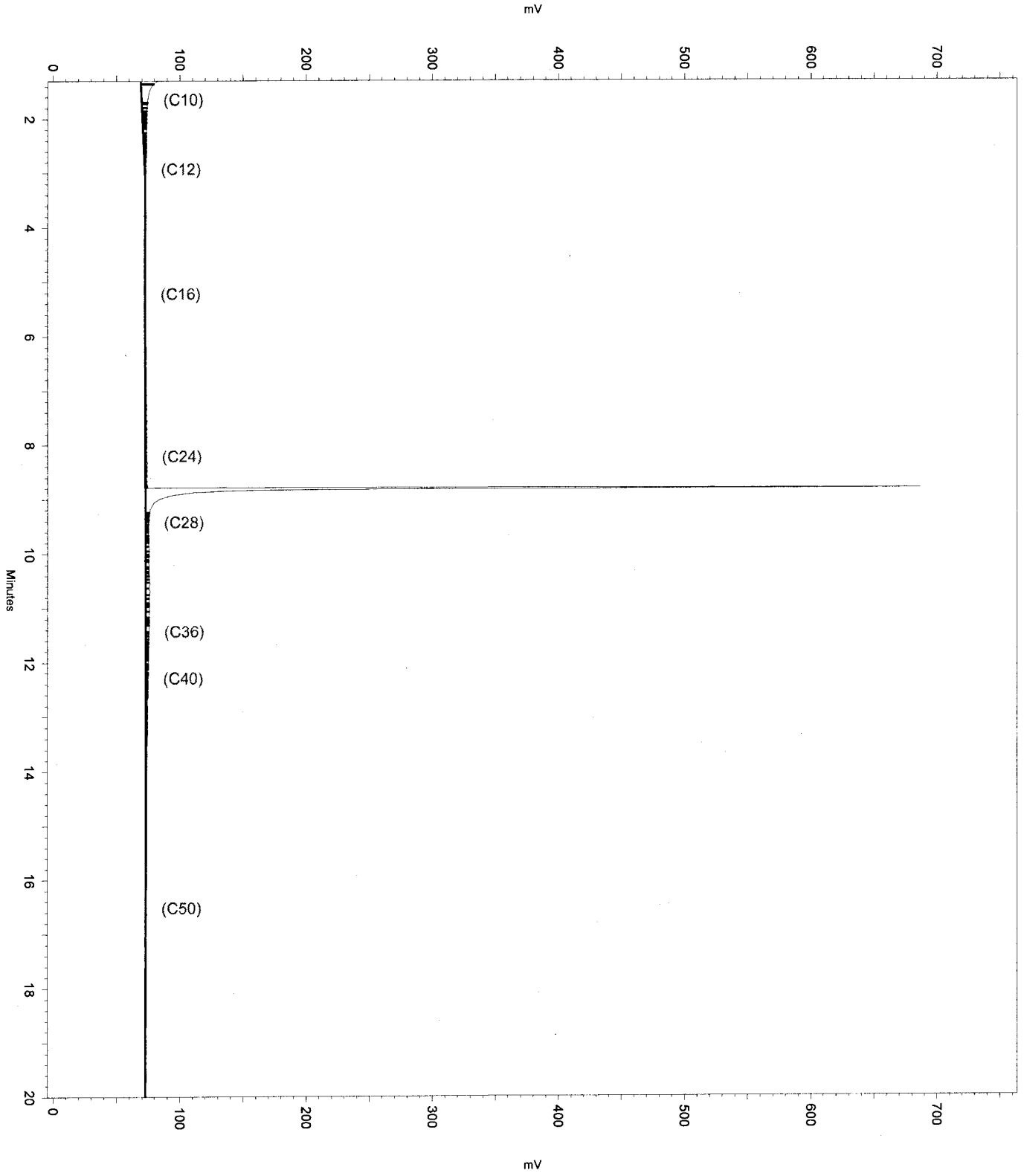
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b088

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	2.945	0.474	0
Yes	Move BL Stop	4.848	15.352	0

Sample Name: **202043-006sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b088**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 2:24:34 AM
Analysis Date: 3/21/2008 8:25:15 AM
Instrument: GC15B Vial: 88 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

DB103

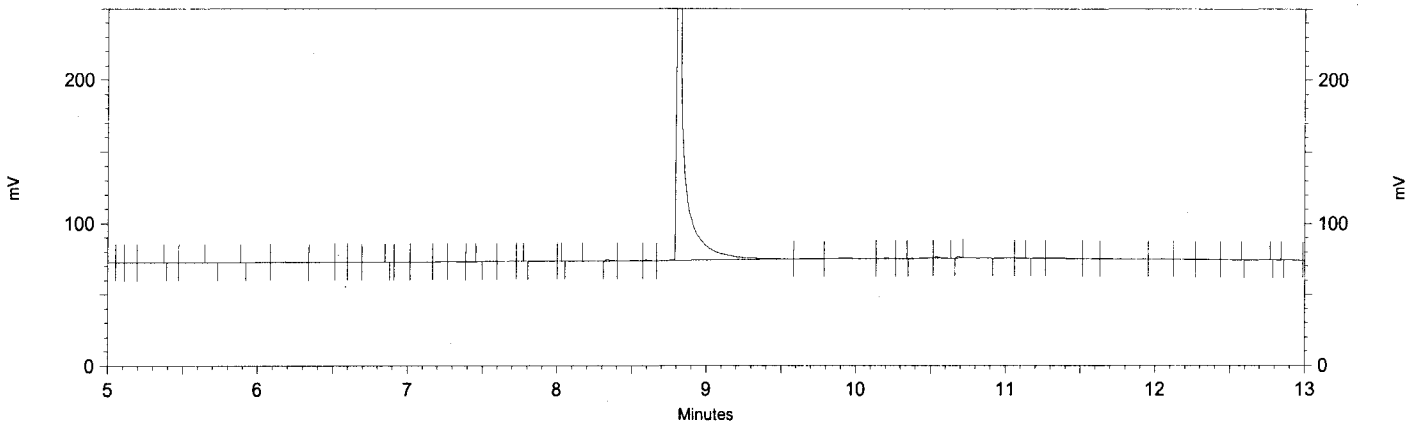
Sample Name: **202043-006sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b088**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 2:24:34 AM
Analysis Date: 3/21/2008 8:16:55 AM
Instrument: GC15B Vial: 88 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.823	1234432	46.691



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b088

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC15B	Lab ID	: 202043-007 (S)	Client ID	: 1065EX312[6.0]
Seqnum	: 168114200089	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 079b089	Batch	: 136175	Time	: 21-MAR-2008 02:51
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.32 g --> 5.0 ml = 0.09936 ml/g PDF

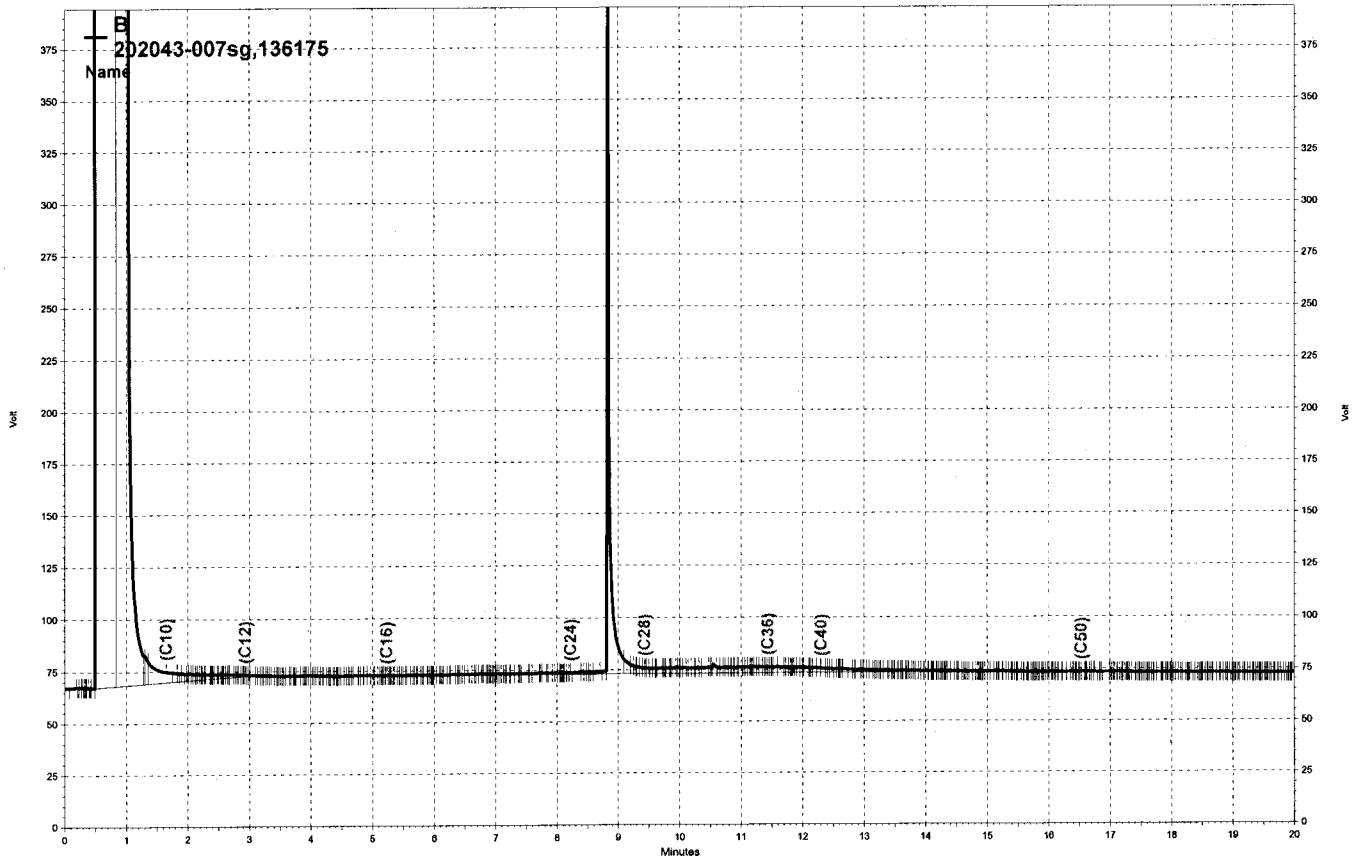
Analyte	Cal	Raw	Result	RL	Blank	Quanted As	Flags
Diesel C12-C24	167416763001	4.153	0.41 J	0.99			u
Fuel Oil C24-C36	167416763002	24.16	2.4 J	5.0	0.83	MO:24-36	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	167479943001	32.51	4.968	3.231	65	65-135	u

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

168114200089



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b089, B

Sample Name: **202043-007sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b089**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 2:51:58 AM
Analysis Date: 3/21/2008 8:26:17 AM
Instrument: GC15B Vial: 89 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	175220	7.830
JP8:10-16	175220	7.713
KER:10-16	175220	6.548
JP5:10-16	175220	6.682
DSL:10-20	206883	7.554
DSL:10-22	227085	7.881
DSL:10-24	257570	8.808
DSL:12-22	77746	3.033
DSL:10-28	1219809	41.354
DSL:12-24	108231	4.153
DSL:12-32	1241914	47.099
BUNKC:12-40	1553001	166.001
TROIL:12-40	1553001	53.619
HYFL:12-40	1553001	63.681
MO:20-36	1350299	53.393
MO:22-36	1330097	58.605
MO:24-36	1299612	71.376
BUNKC:12-50	1685493	0.000
DSL:10-12	149339	0.000
DSL:12-16	25881	0.000
DSL:16-24	82350	0.000
MO:28-36	337373	42.214
MO:28-40	482531	57.168
MO:22-32	1164168	56.267
DSL:12-14	14056	0.000
DSL:14-16	11825	0.000
DSL:16-18	12416	0.000
DSL:18-20	19247	0.000
DSL:20-22	20202	0.000
DSL:22-24	30485	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b089

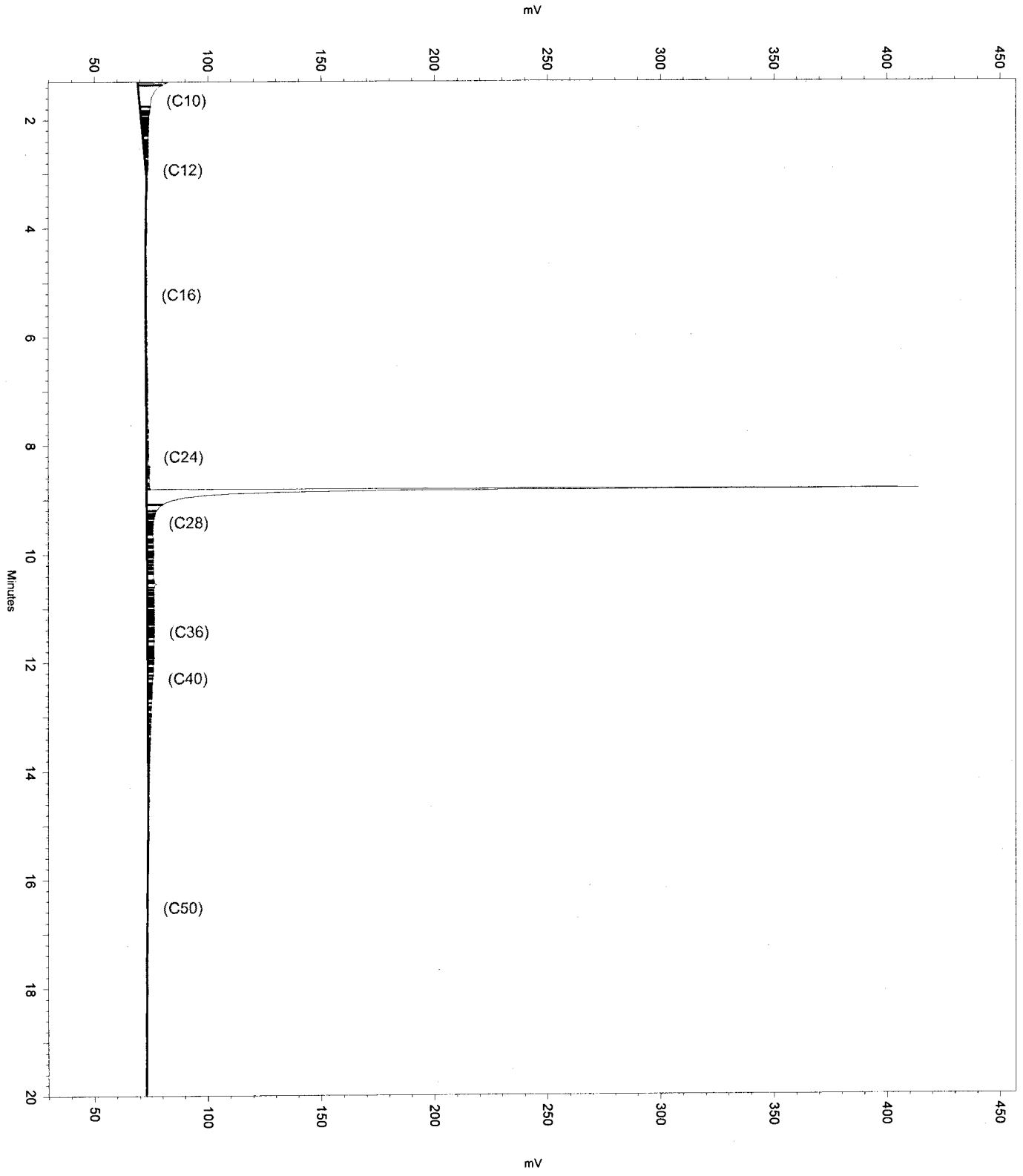
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

00107

Yes	Move BL Start	2.377	0.493	0
Yes	Move BL Stop	3.753	4.46	0
Yes	Move BL Start	13.967	4.46	0

00109

Sample Name: **202043-007sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b089**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 2:51:58 AM
Analysis Date: 3/21/2008 8:26:17 AM
Instrument: GC15B Vial: 89 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

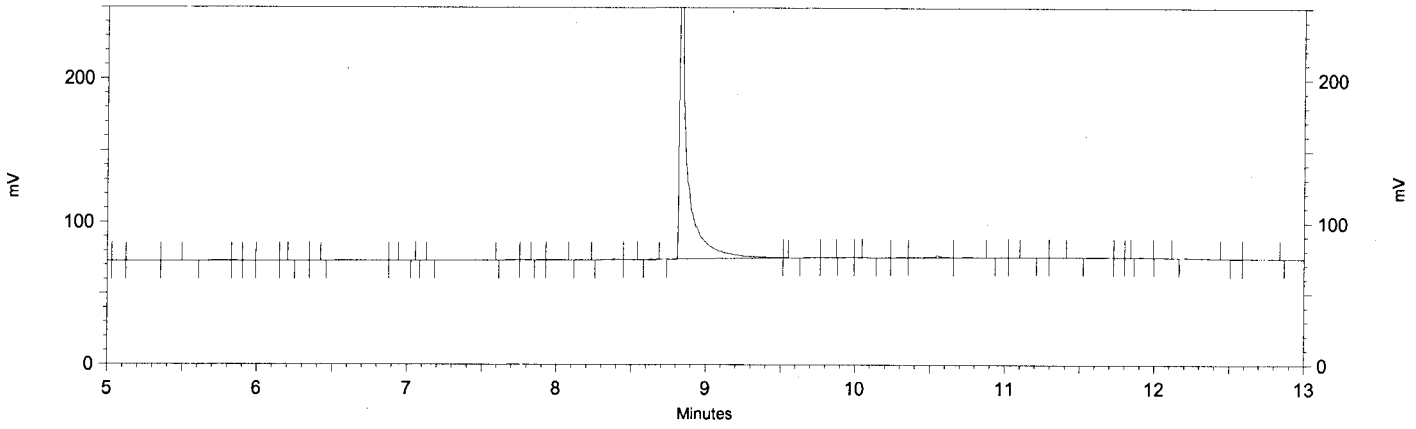
Sample Name: **202043-007sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b089**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 2:51:58 AM
Analysis Date: 3/21/2008 8:16:57 AM
Instrument: GC15B Vial: 89 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.833	859631	32.514



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b089

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC15B	Lab ID	: 202043-008 (S)	Client ID	: 1065EX313[4.5]
Seqnum	: 168114200092	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 079b092	Batch	: 136175	Time	: 21-MAR-2008 04:15
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.11 g --> 5.0 ml = 0.09978 ml/g PDF

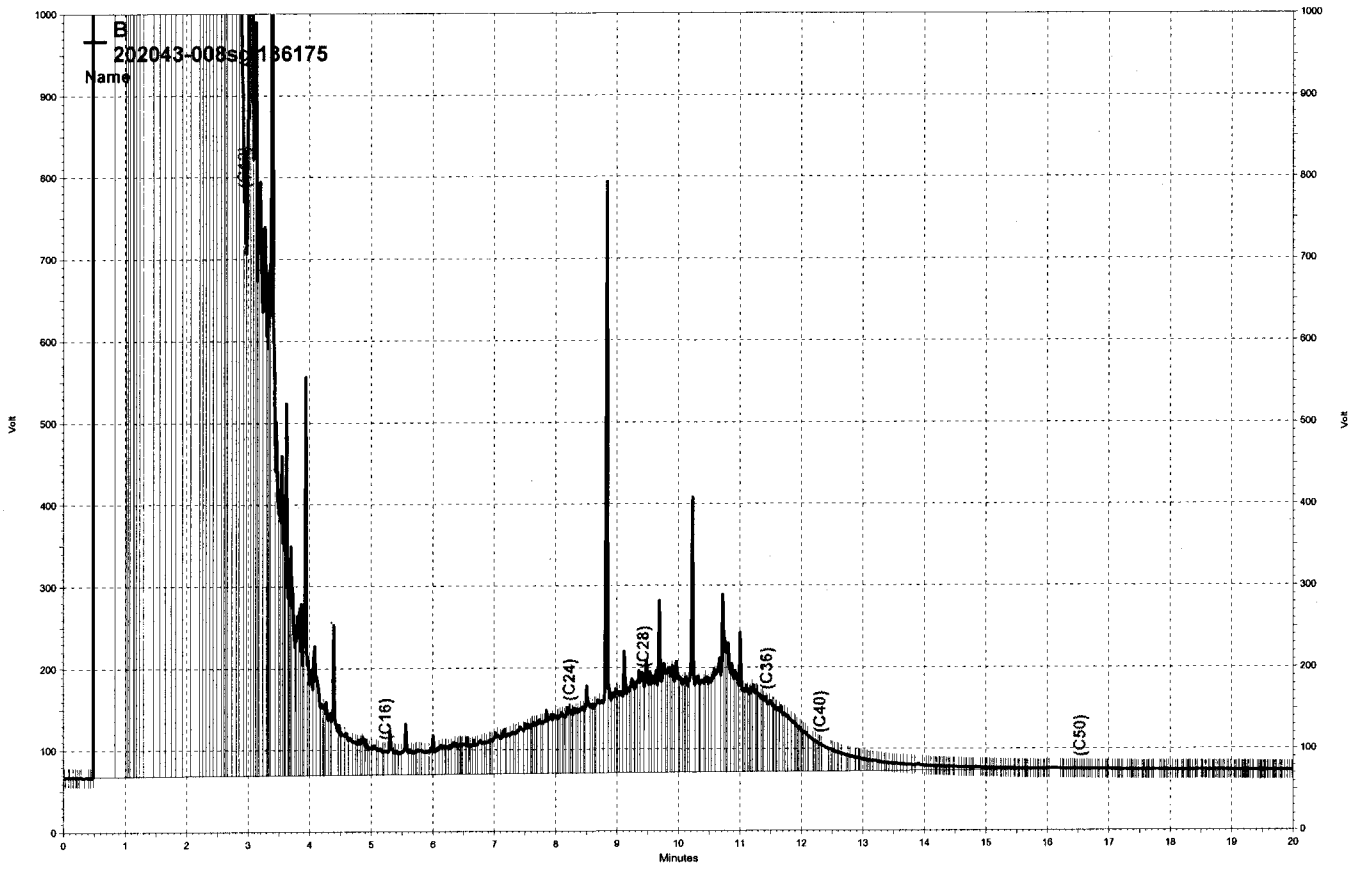
Analyte	Cal	Raw	Result	RL	Blank	Quanted As	Flags
Diesel C12-C24	167416763001	1678	170	1.0			Y u
Fuel Oil C24-C36	167416763002	1159	120	5.0	0.83	MO:24-36	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	167479943001	39.50	4.989	3.941	79	65-135	u

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

Y=does not resemble standard u=use

168114200092



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b092, B

Sample Name: **202043-008sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b092**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 4:15:14 AM
Analysis Date: 3/21/2008 8:28:14 AM
Instrument: GC15B Vial: 92 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	149958336	6700.812
JP8:10-16	149958336	6601.261
KER:10-16	149958336	5604.271
JP5:10-16	149958336	5718.797
DSL:10-20	152958256	5585.220
DSL:10-22	155076304	5381.630
DSL:10-24	157891120	5399.494
DSL:12-22	40918464	1596.341
DSL:10-28	165674240	5616.645
DSL:12-24	43733268	1678.264
DSL:12-32	59169348	2243.982
BUNKC:12-40	68899528	7364.717
TROIL:12-40	68899528	2378.840
HYFL:12-40	68899528	2825.240
MO:20-36	27085234	1070.994
MO:22-36	24967194	1100.079
MO:24-36	22152386	1216.629
BUNKC:12-50	70529056	0.000
DSL:10-12	114157840	0.000
DSL:12-16	35800492	0.000
DSL:16-24	7932766	0.000
MO:28-36	14369304	1797.977
MO:28-40	17383192	2059.470
MO:22-32	18250900	882.107
DSL:12-14	33156960	0.000
DSL:14-16	2643529	0.000
DSL:16-18	1397311	0.000
DSL:18-20	1602605	0.000
DSL:20-22	2118044	0.000
DSL:22-24	2814806	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

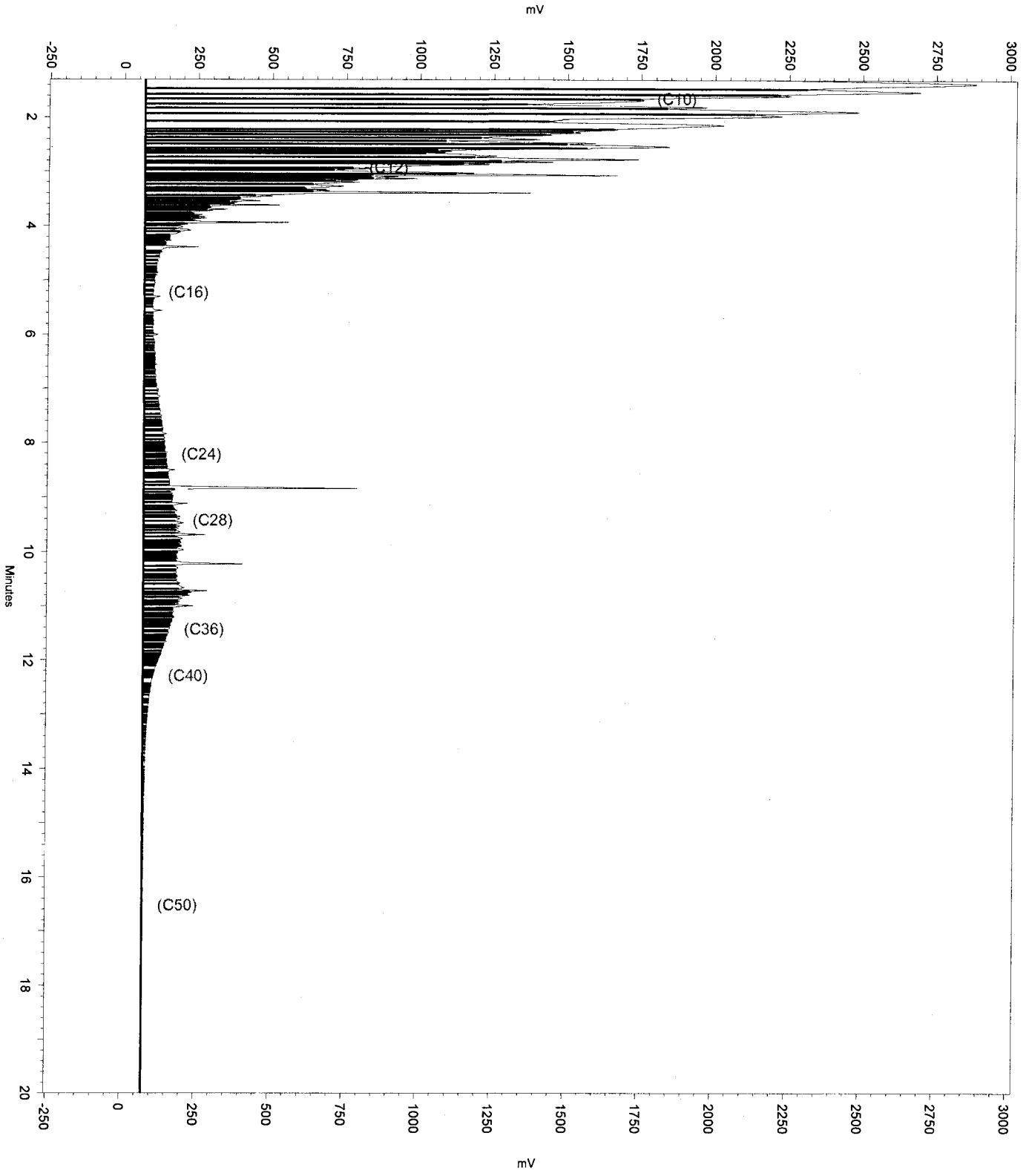
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b092

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	16.825	0.48	0

Sample Name: **202043-008sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b092**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 4:15:14 AM
Analysis Date: 3/21/2008 8:28:14 AM
Instrument: GC15B Vial: 92 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

2215

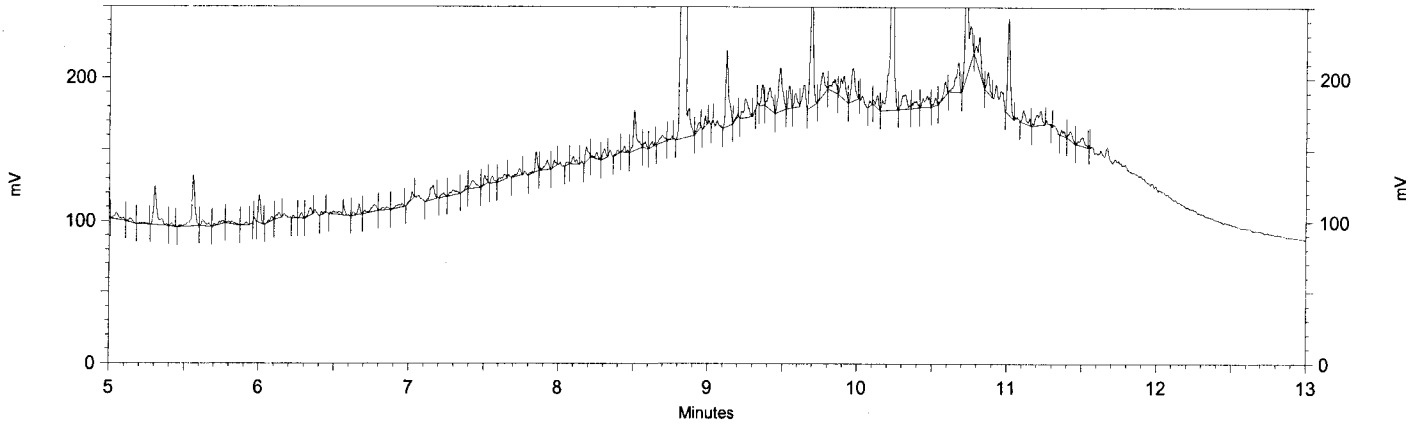
Sample Name: **202043-008sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b092**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 4:15:14 AM
Analysis Date: 3/21/2008 8:17:04 AM
Instrument: GC15B Vial: 92 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.843	1044322	39.500



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b092

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC17A	Lab ID	: 202043-009 (S)	Client ID	: 1065EX314[5.5]
Seqnum	: 178117121011	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 081a011	Batch	: 136175	Time	: 21-MAR-2008 13:20
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.19 g --> 5.0 ml = 0.09962 ml/g PDF

Analyte	Cal	Raw	Result	RL	Blank	Quanted As	Flags
Diesel C12-C24	178033862001	173.8	17	1.0			Y u
Fuel Oil C24-C36	178035189002	1473	150	5.0	0.83	MO:24-36	u

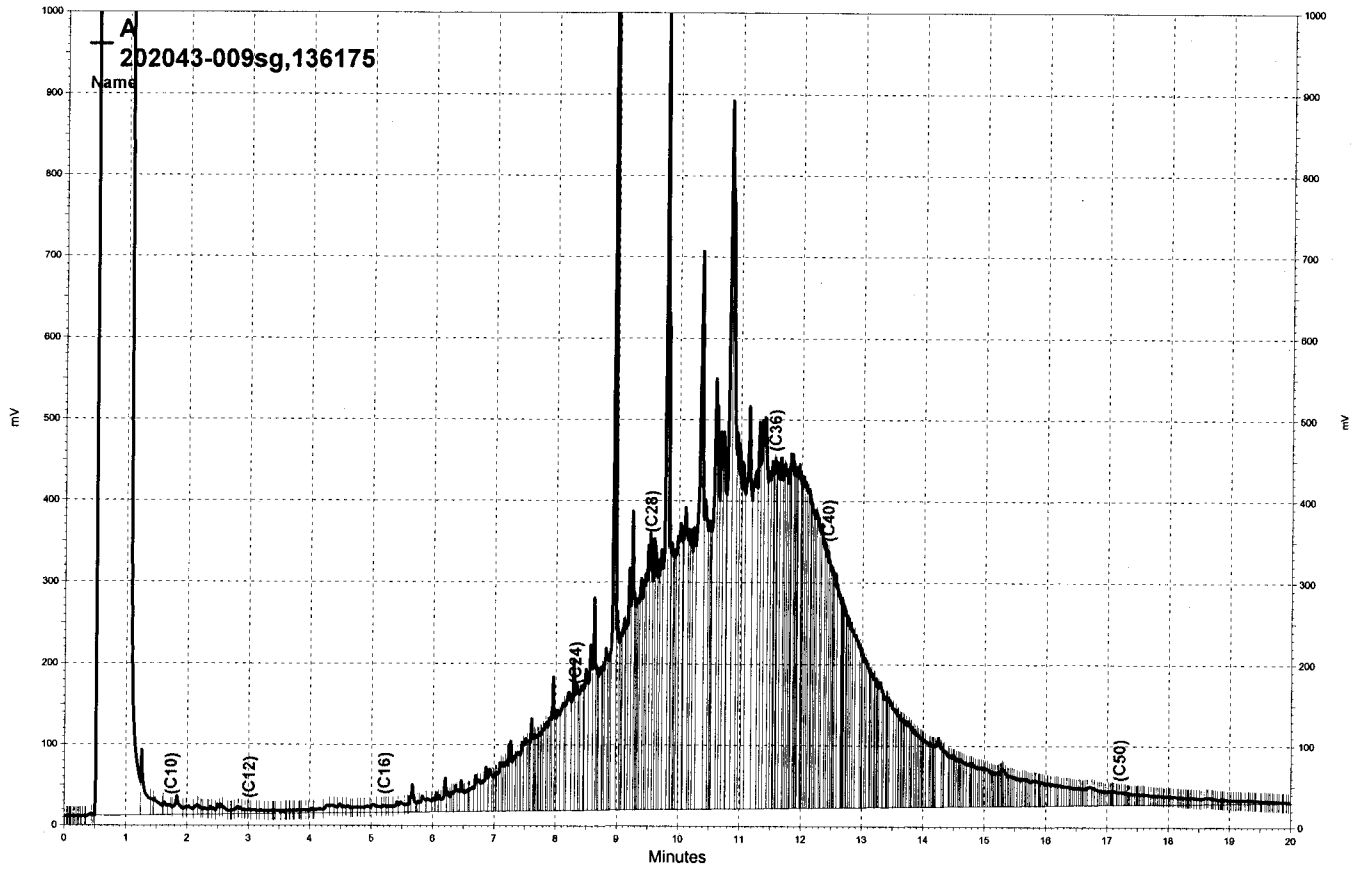
Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	178035189001	35.17	4.981	3.504	70	65-135	u

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

Y=does not resemble standard u=use

178117121011

: 80117



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a011, A

Sample Name: **202043-009sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 1:20:15 PM
Analysis Date: 3/21/2008 1:59:27 PM
Instrument: GC17A Vial: 11 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	1362903	27.116
JP8:10-16	1362903	29.347
KER:10-16	1362903	22.252
JP5:10-16	1362903	21.716
DSL:10-20	3401147	52.251
DSL:10-22	6311137	92.362
DSL:10-24	11146862	161.136
DSL:12-22	5717749	95.493
DSL:10-28	29467760	423.748
DSL:12-24	10553474	173.800
DSL:12-32	53312316	871.181
BUNKC:12-40	98887184	4032.620
HYFL:12-40	98887184	1358.430
MO:22-32	47594572	972.732
MO:20-36	75184952	1232.052
MO:22-36	72274968	1323.199
MO:24-36	67439248	1525.901
BUNKC:12-50	122107832	4285.361
MO:28-36	49118352	2478.028
MO:28-40	70012832	3170.979
DSL:10-12	593388	0.000
DSL:12-16	769515	0.000
DSL:16-24	9783959	0.000
TROIL:12-40	98887184	1477.408

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

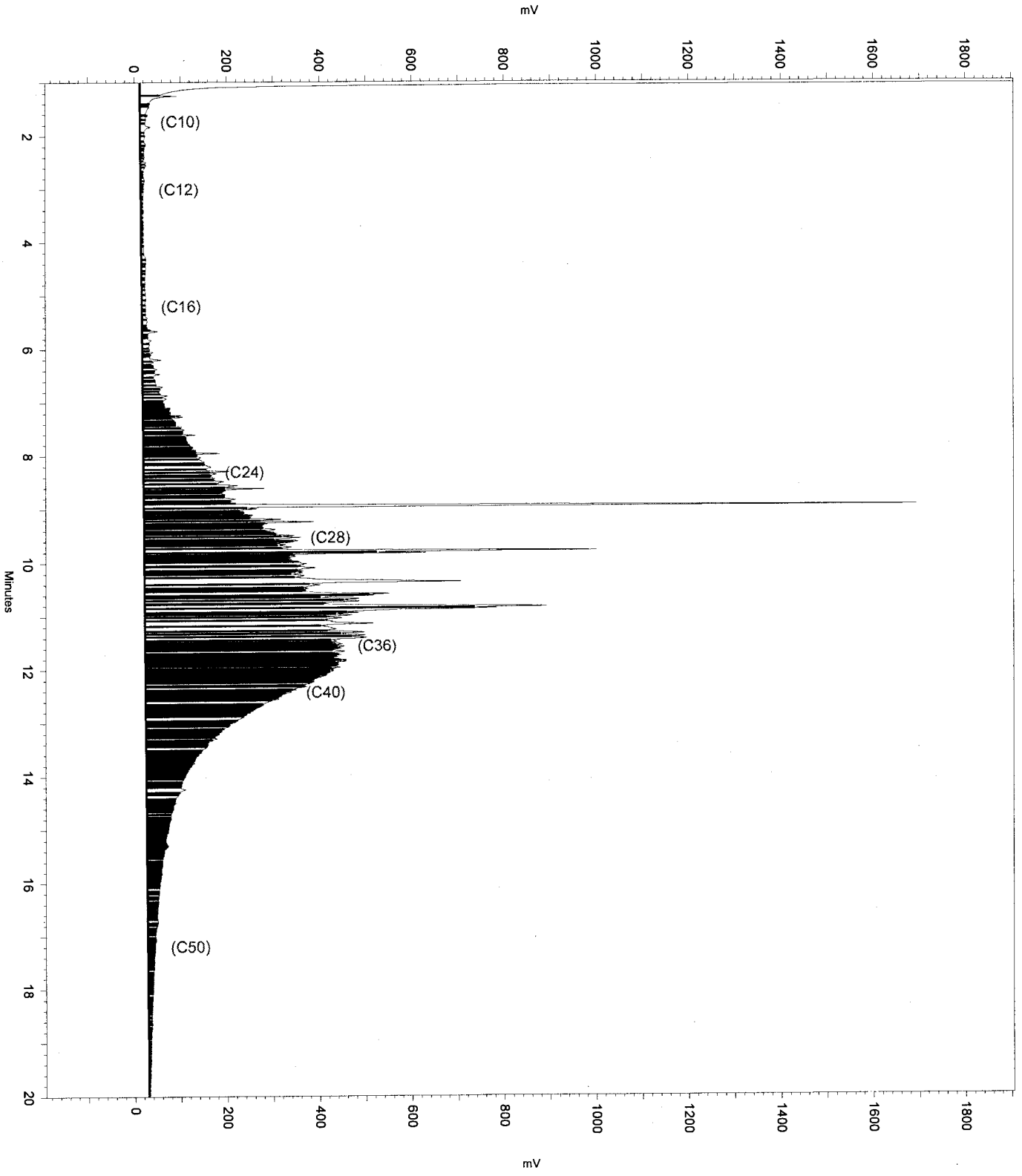
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.898	8.981	0
Yes	Move BL Start	19.005	0.287	0

Sample Name: **202043-009sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 1:20:15 PM
Analysis Date: 3/21/2008 1:59:27 PM
Instrument: GC17A Vial: 11 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



 Curtis & Tompkins Ltd.

09120

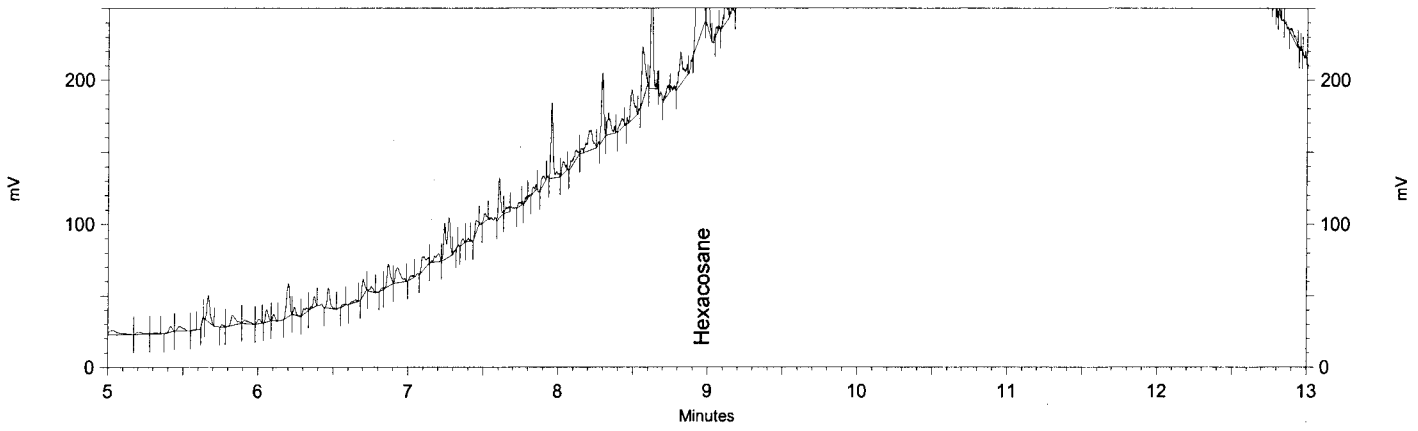
Sample Name: **202043-009sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur081.met
Run Date: 3/21/2008 1:20:15 PM
Analysis Date: 3/21/2008 1:58:52 PM
Instrument: GC17A Vial: 11 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.963	2318631	35.170



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.898	8.981	0

Curtis & Tompkins, Ltd.

QC Raw Data

CURTIS & TOMPKINS BLANK USER REPORT FOR 202043 GCSV Soil
EPA 8015B

Inst	: GC15B	Lab ID	: QC433676 (S)		
Seqnum	: 168114200055.2	Matrix	: Soil		
File	: 079b055	Batch	: 136175	Time	: 20-MAR-2008 09:40
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

50.26 g --> 5.0 ml = 0.09948 ml/g PDF

Analyte	Cal	Raw	Result	RL	Quanted As	Flags
Diesel C12-C24	167416763001	0.7910	ND	0.99		u
Fuel Oil C24-C36	167416763002	8.311	0.83 J	5.0	MO:24-36	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	167479943001	34.96	4.974	3.478	70	65-135	u

JDG 03/20/08 : Integrated. [general version]

JDG 03/20/08 : Use for RUSHjob 202038.Does not need OTP. [general version]

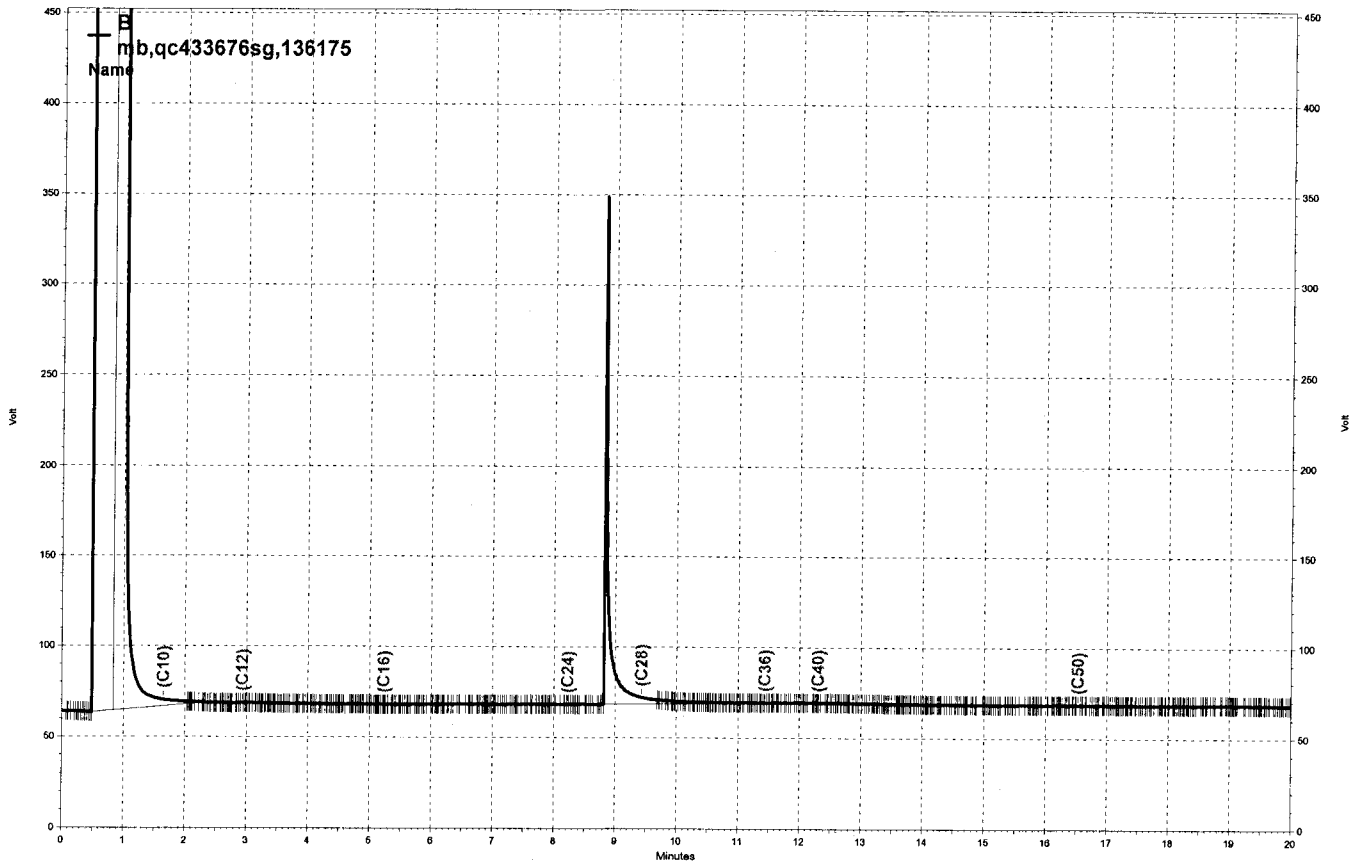
LH 03/21/08 [Motor Oil C24-C36 B]: < ⇓ RL [general version]

LH 03/21/08 [Fuel Oil C24-C36 B]: < ⇓ RL [general version]

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

168114200055.2



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b055, B

Sample Name: **mb,qc433676sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b055**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 9:40:13 AM
Analysis Date: 3/20/2008 11:21:21 AM
Instrument: GC15B Vial: 55 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	23433	1.047
JP8:10-16	23433	1.032
KER:10-16	23433	0.876
JP5:10-16	23433	0.894
DSL:10-20	29778	1.087
DSL:10-22	32031	1.112
DSL:10-24	35698	1.221
DSL:12-22	16945	0.661
DSL:10-28	1024690	34.739
DSL:12-24	20612	0.791
DSL:12-32	1072308	40.667
BUNKC:12-40	1104068	118.015
TROIL:12-40	1104068	38.119
HYFL:12-40	1104068	45.273
MO:20-36	1081475	42.763
MO:22-36	1079222	47.552
MO:24-36	1075555	59.070
BUNKC:12-50	1128382	0.000
DSL:10-12	15086	0.000
DSL:12-16	8347	0.000
DSL:16-24	12265	0.000
MO:28-36	86563	10.831
MO:28-40	94464	11.192
MO:22-32	1055363	51.008
DSL:12-14	5641	0.000
DSL:14-16	2706	0.000
DSL:16-18	2564	0.000
DSL:18-20	3781	0.000
DSL:20-22	2253	0.000
DSL:22-24	3667	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

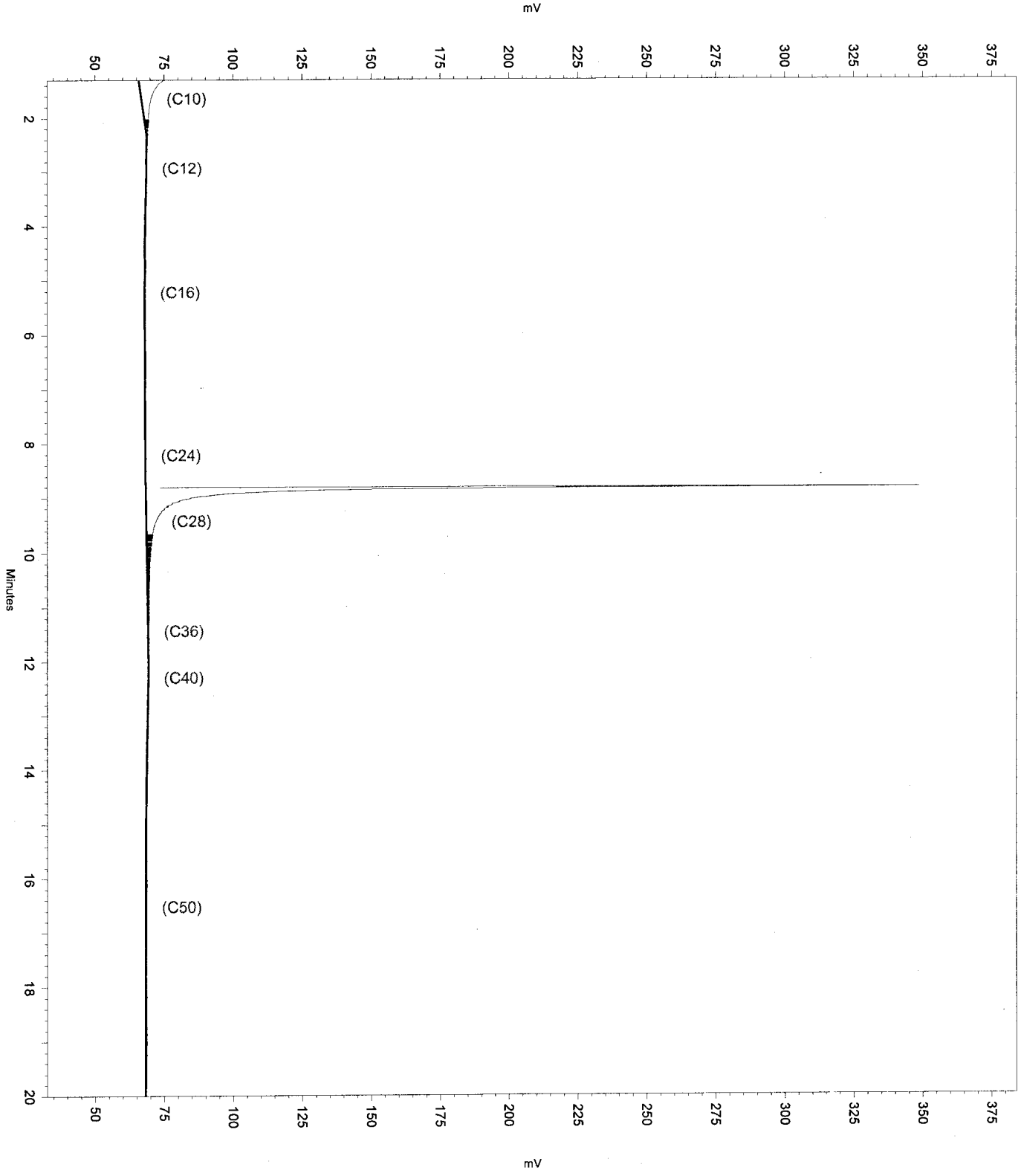
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b055

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	2.045	0.485	0
Yes	Manual Peak	8.807	9.687	0
Yes	Move BL Start	11.858	8.75	0

Sample Name: **mb,qc433676sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b055**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 9:40:13 AM
Analysis Date: 3/20/2008 11:21:21 AM
Instrument: GC15B Vial: 55 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

: 80127

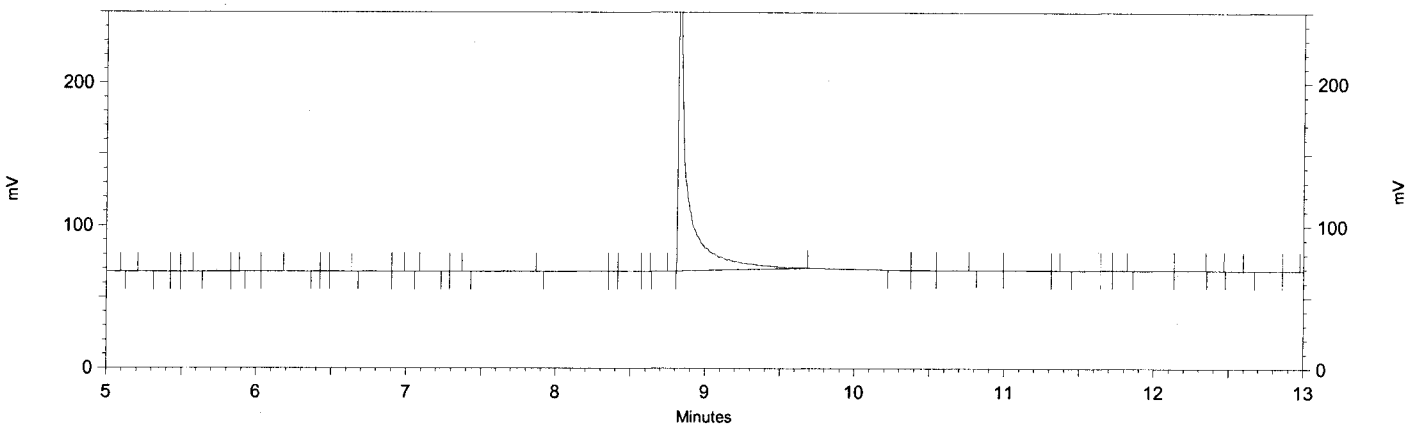
Sample Name: **mb,qc433676sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b055**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/20/2008 9:40:13 AM
Analysis Date: 3/20/2008 10:58:13 AM
Instrument: GC15B Vial: 55 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.828	924224	34.957



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b055

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.807	9.687	0

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCSV Soil
EPA 8015B

Type : LCS
Inst : GC15B
Seqnum : 168114200085.1
File : 079b085
IDF : 1.0
Lab ID : QC433677 (S)
Matrix : Soil
Batch : 136175
Time : 21-MAR-2008 01:02
Cal : 167416763001
Cal : 167479943001
Units : mg/Kg

LCS: 50.01 g --> 5.0 ml = 0.09998 ml/g PDF

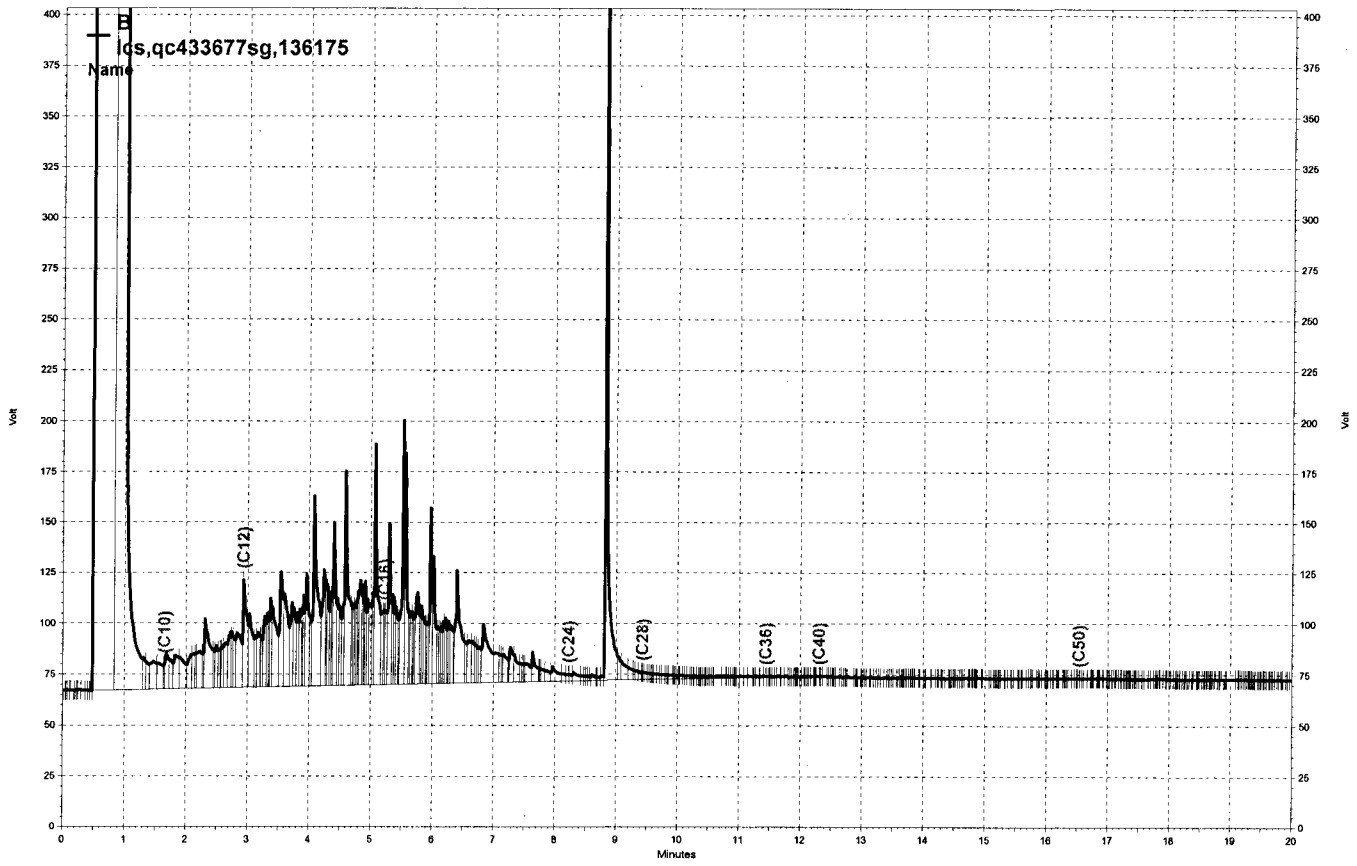
Analyte	Spiked	On Col	LCS	%Rec	Limits	Flags
Diesel C12-C24	49.99	363.5	36.34	73	65-135	u
Hexacosane	4.999	34.97	3.496	70	65-135	u

JDG 03/21/08 : No use. [general version]

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

u=use

168114200085.1



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b085, B

Sample Name: **lcs,qc433677sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b085**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 1:02:08 AM
Analysis Date: 3/21/2008 8:22:55 AM
Instrument: GC15B Vial: 85 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	7004898	313.010
JP8:10-16	7004898	308.360
KER:10-16	7004898	261.788
JP5:10-16	7004898	267.138
DSL:10-20	10248769	374.230
DSL:10-22	10902269	378.343
DSL:10-24	11105662	379.787
DSL:12-22	9268066	361.573
DSL:10-28	12163570	412.366
DSL:12-24	9471459	363.467
DSL:12-32	10649326	403.873
BUNKC:12-40	10697473	1143.460
TROIL:12-40	10697473	369.343
HYFL:12-40	10697473	438.652
MO:20-36	2075502	82.069
MO:22-36	1422002	62.655
MO:24-36	1218609	66.927
BUNKC:12-50	10735557	0.000
DSL:10-12	1634203	0.000
DSL:12-16	5370695	0.000
DSL:16-24	4100764	0.000
MO:28-36	160701	20.108
MO:28-40	168106	19.916
MO:22-32	1381260	66.759
DSL:12-14	2935997	0.000
DSL:14-16	2434698	0.000
DSL:16-18	2148622	0.000
DSL:18-20	1095249	0.000
DSL:20-22	653500	0.000
DSL:22-24	203393	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

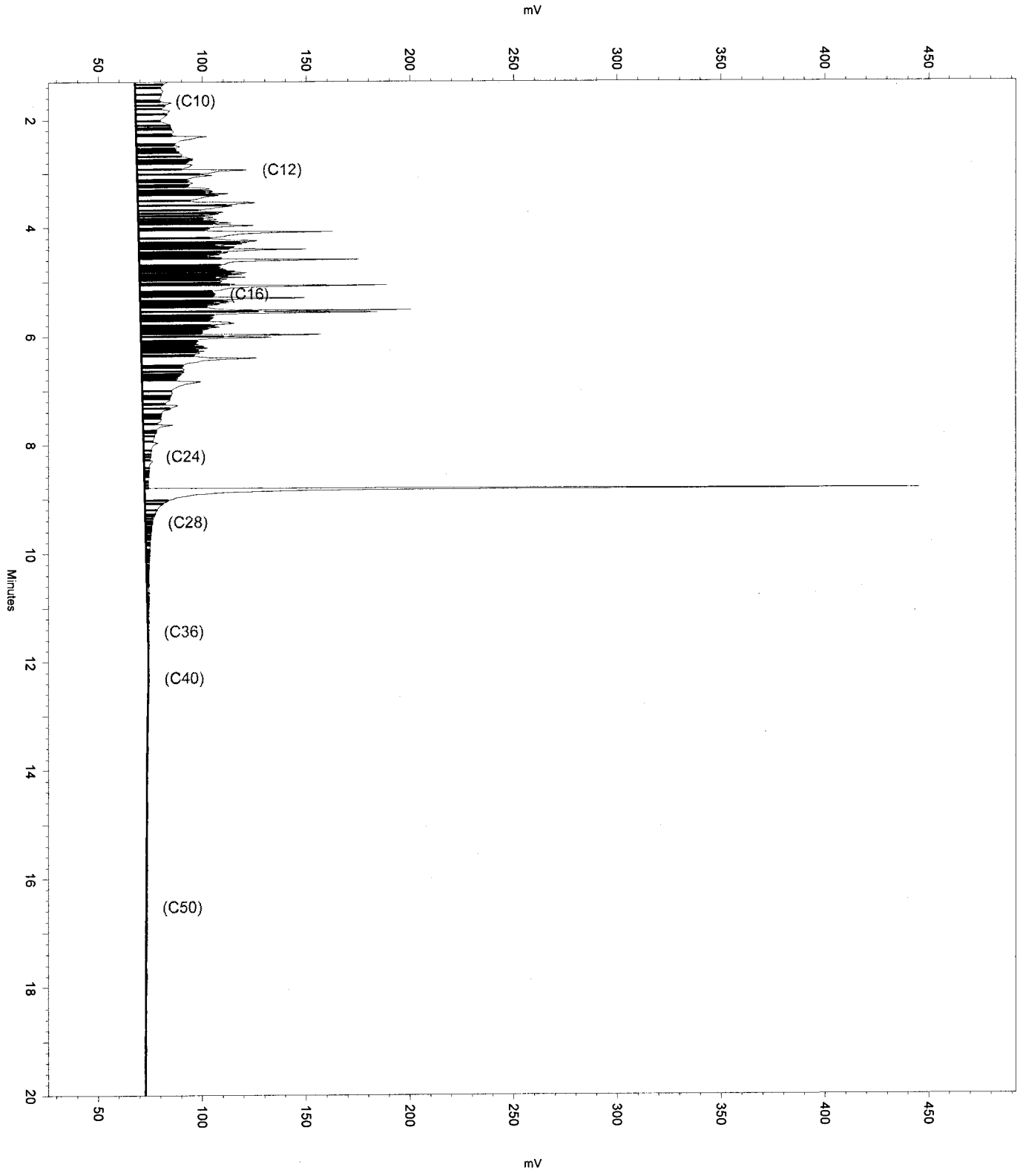
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b085

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	8.688	0.483	0

Sample Name: **lcs,qc433677sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b085**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 1:02:08 AM
Analysis Date: 3/21/2008 8:22:55 AM
Instrument: GC15B Vial: 85 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

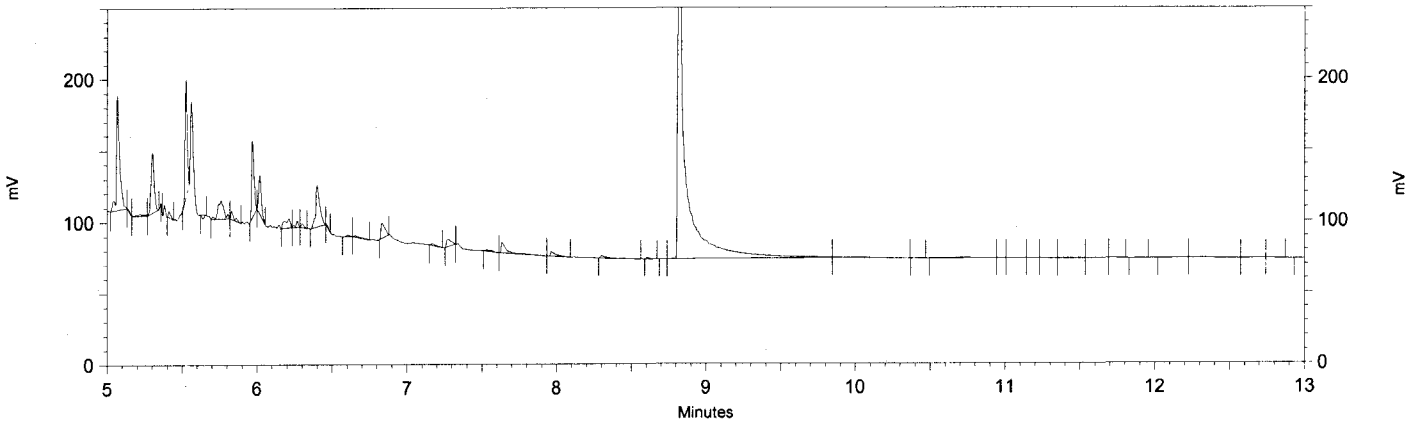
Sample Name: **lcs,qc433677sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b085**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 1:02:08 AM
Analysis Date: 3/21/2008 8:16:48 AM
Instrument: GC15B Vial: 85 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.823	924482	34.967



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b085

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

2013

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 GCSV Soil
EPA 8015B

Type	: MSS	Type	: MS	Type	: MSD
Inst	: GC15B	Inst	: GC15B	Inst	: GC15B
Seqnum	: 168114200090	Seqnum	: 168117153008.4	Seqnum	: 168117153009.3
File	: 079b090	File	: 081b008	File	: 081b009
IDF	: 1.0	IDF	: 1.0	IDF	: 1.0
Lab ID	: 202043-001 (S)	Lab ID	: QC433678 (S)	Lab ID	: QC433679 (S)
Matrix	: Soil	Matrix	: Soil	Matrix	: Soil
Batch	: 136175	Batch	: 136175	Batch	: 136175
Time	: 21-MAR-2008 03:19	Time	: 21-MAR-2008 11:53	Time	: 21-MAR-2008 12:20
Cal	: 167416763001	Cal	: 167416763001	Cal	: 167416763001
Cal	: 167479943001	Cal	: 167479943001	Cal	: 167479943001
Units	: mg/Kg				

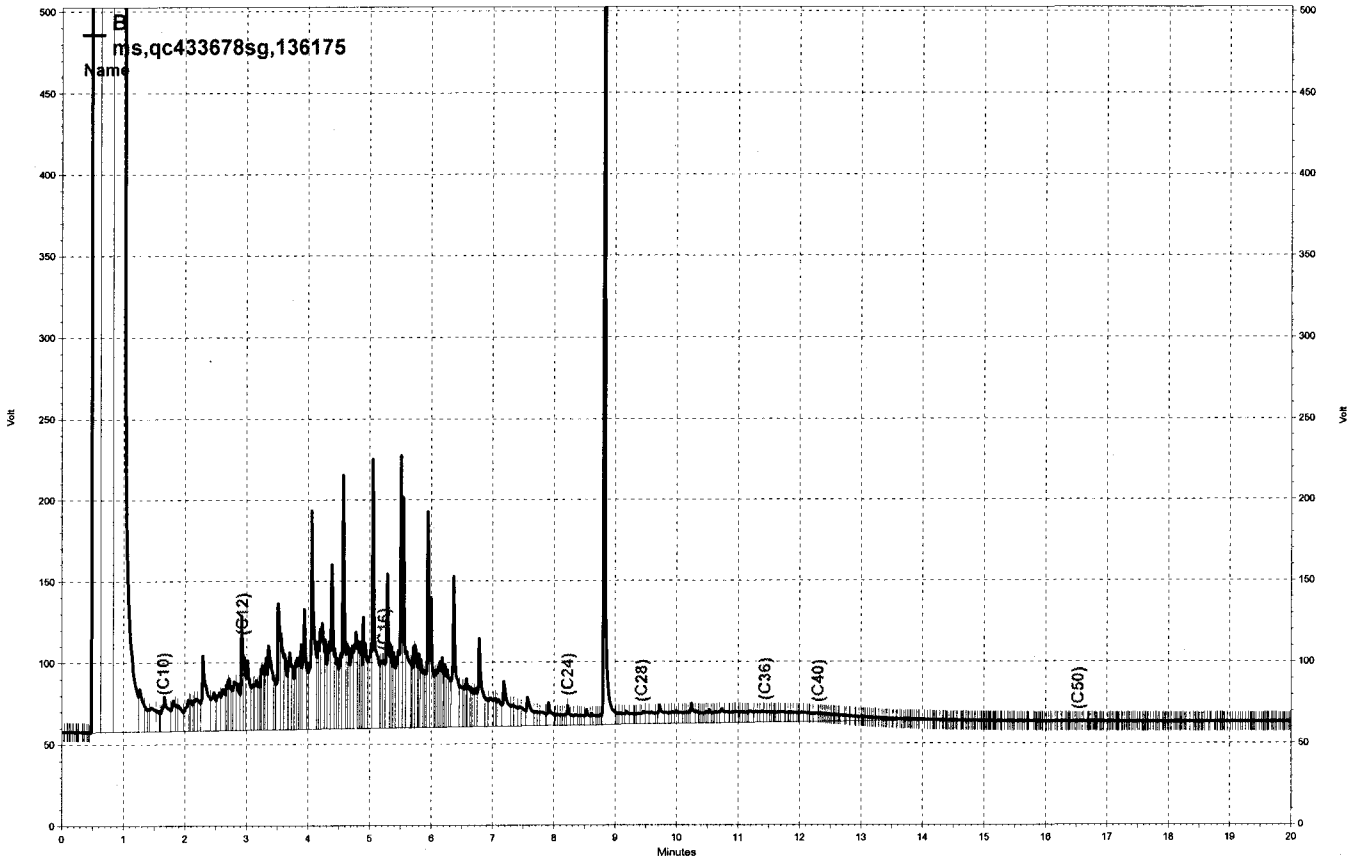
MSS: 50.27 g --> 5.0 ml = 0.09946 ml/g PDF
MS: 50.13 g --> 5.0 ml = 0.09974 ml/g PDF
MSD: 50.16 g --> 5.0 ml = 0.09968 ml/g PDF

Analyte	MSS	Spiked	MS On Col	MS Result	%Rec	Spiked	MSD On Col	MSD Result	%Rec	Limits	RPD	Lim	Flags
Diesel C12-C24	0.5412 J	49.87	437.3	43.62	86	49.84	441.8	44.04	87	65-135	1	35	u
Hexacosane		4.987	44.03	4.391	88	4.984	44.90	4.476	90	65-135			u

Analyst: JDG Date: 03/24/08 Reviewer: LH Date: 03/24/08

u=use

168117153009.3



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b008, B

Sample Name: **ms,qc433678sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 11:53:00 AM
Analysis Date: 3/21/2008 4:33:40 PM
Instrument: GC15B Vial: 8 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	8167285	364.951
JP8:10-16	8167285	359.529
KER:10-16	8167285	305.229
JP5:10-16	8167285	311.467
DSL:10-20	12142235	443.370
DSL:10-22	12745405	442.305
DSL:10-24	13103598	448.111
DSL:12-22	11037248	430.593
DSL:10-28	14764638	500.547
DSL:12-24	11395441	437.300
DSL:12-32	13566452	514.504
BUNKC:12-40	14357873	1534.723
TROIL:12-40	14357873	495.723
HYFL:12-40	14357873	588.748
MO:20-36	3584447	141.735
MO:22-36	2981277	131.358
MO:24-36	2623084	144.062
BUNKC:12-50	14794220	0.000
DSL:10-12	1708157	0.000
DSL:12-16	6459128	0.000
DSL:16-24	4936313	0.000
MO:28-36	962044	120.377
MO:28-40	1301392	154.182
MO:22-32	2529204	122.242
DSL:12-14	3493766	0.000
DSL:14-16	2965362	0.000
DSL:16-18	2478436	0.000
DSL:18-20	1496514	0.000
DSL:20-22	603170	0.000
DSL:22-24	358193	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

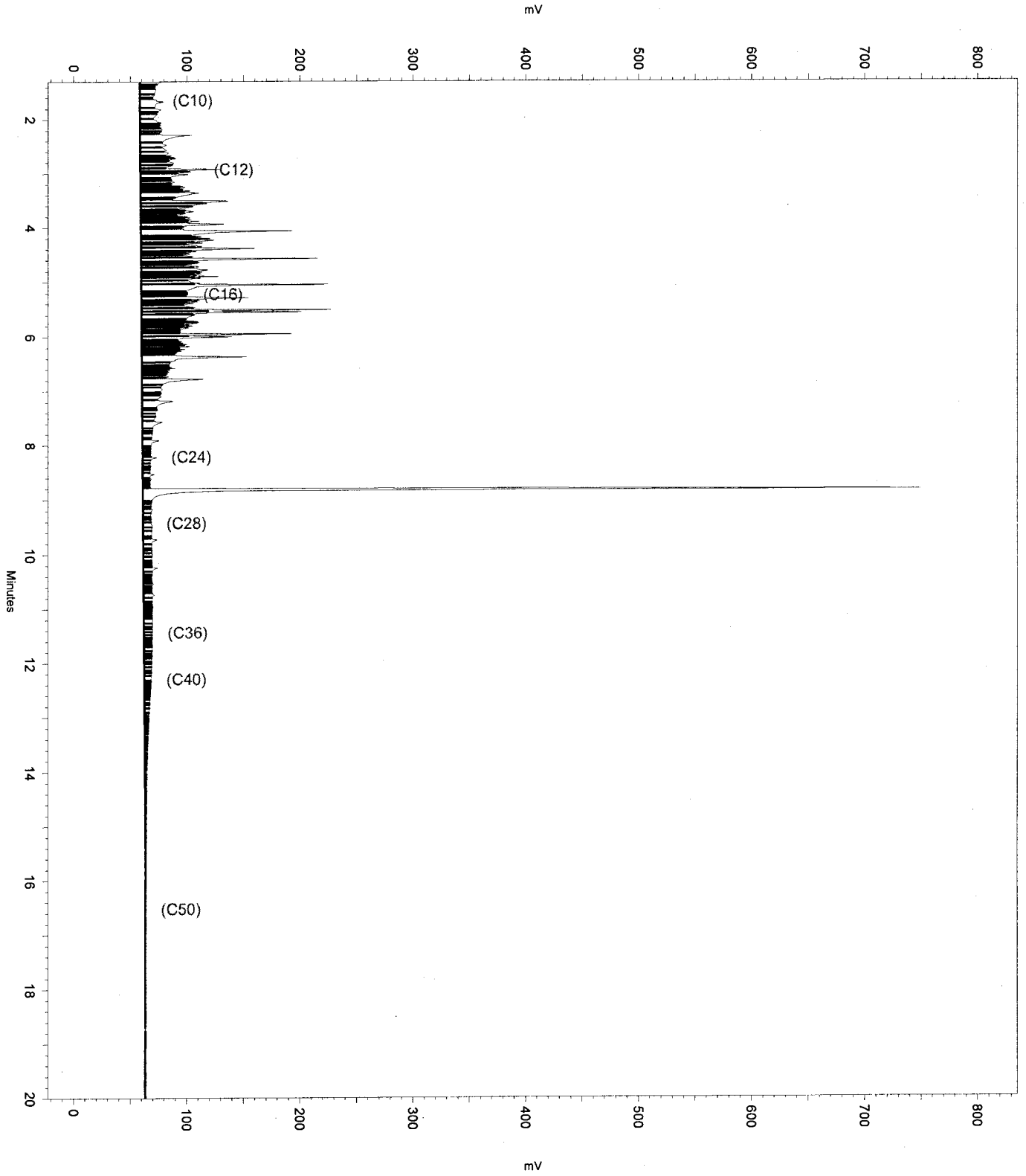
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Stop	0.478	14.18	0
Yes	Manual Peak	8.779	9.01	0
Yes	Move BL Stop	14.18	15.934	0

Sample Name: **ms,qc433678sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 11:53:00 AM
Analysis Date: 3/21/2008 4:33:40 PM
Instrument: GC15B Vial: 8 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

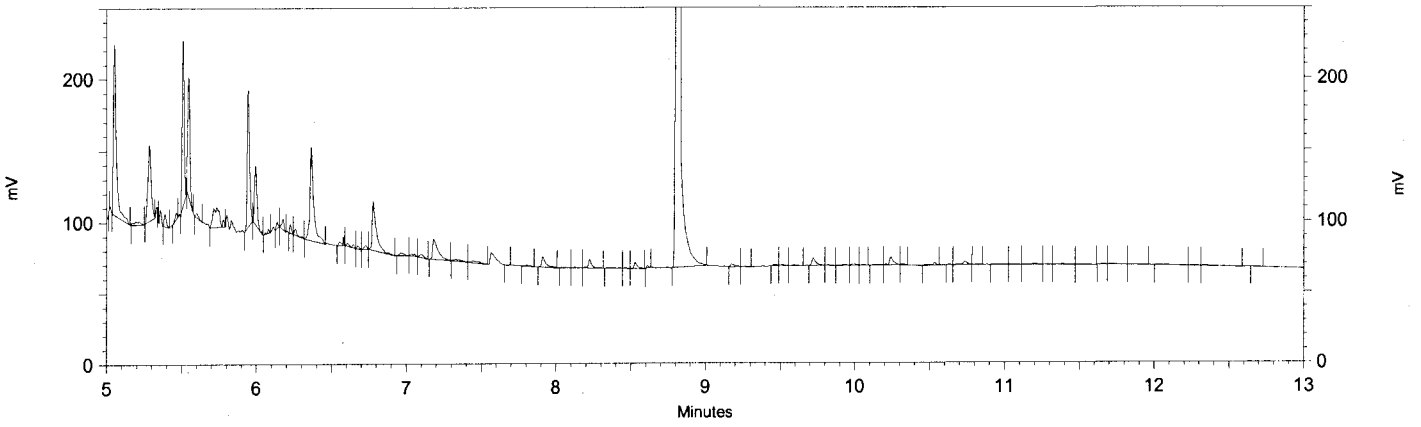
Sample Name: **ms,qc433678sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 11:53:00 AM
Analysis Date: 3/21/2008 12:42:06 PM
Instrument: GC15B Vial: 8 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.828	1163986	44.026



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

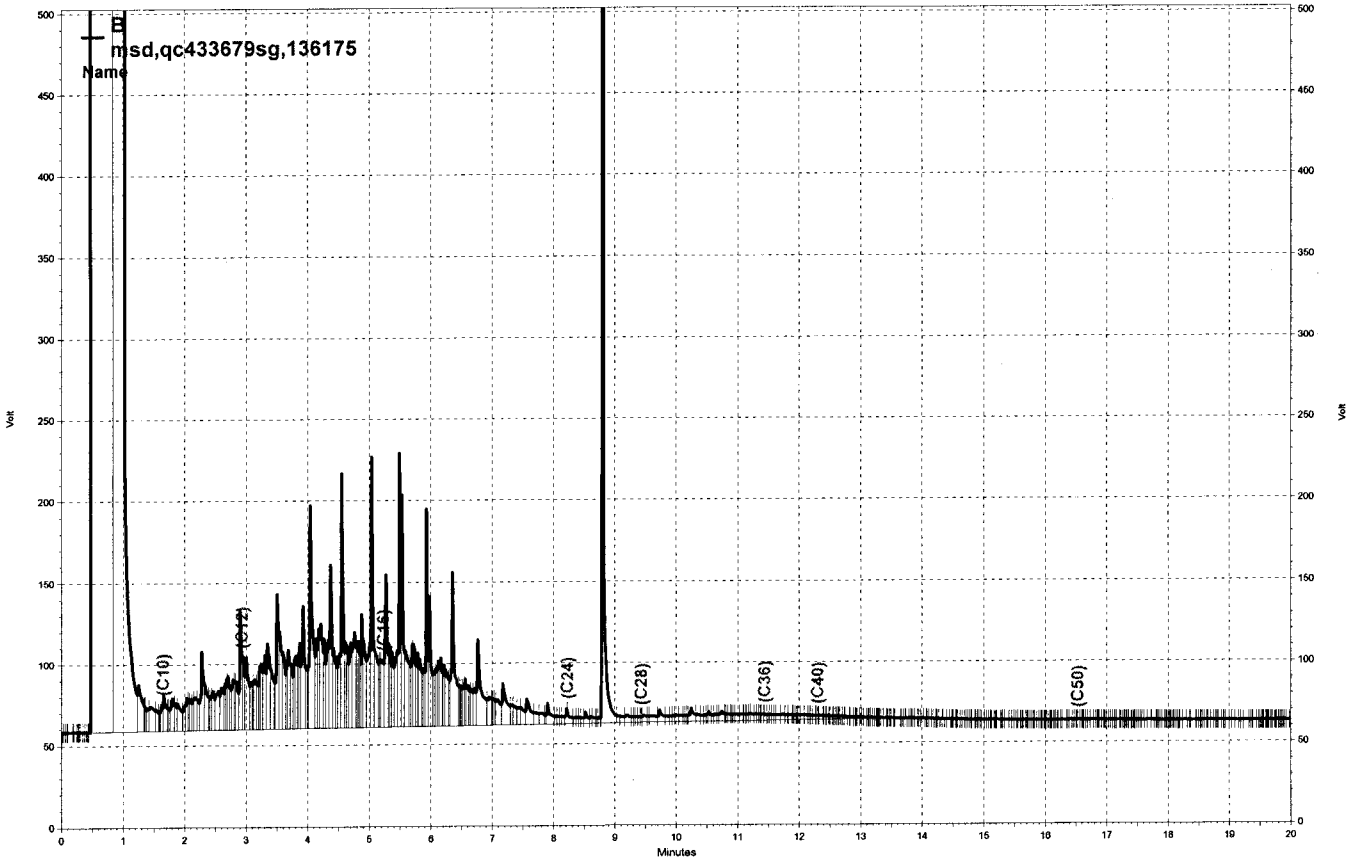
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.779	9.01	0



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b009, B

Sample Name: **msd,qc433679sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 12:20:56 PM
Analysis Date: 3/21/2008 4:33:59 PM
Instrument: GC15B Vial: 9 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	8314497	371.529
JP8:10-16	8314497	366.009
KER:10-16	8314497	310.731
JP5:10-16	8314497	317.081
DSL:10-20	12354569	451.123
DSL:10-22	12897908	447.598
DSL:10-24	13250662	453.141
DSL:12-22	11159939	435.380
DSL:10-28	14736429	499.591
DSL:12-24	11512693	441.800
DSL:12-32	13333230	505.659
BUNKC:12-40	13889204	1484.626
TROIL:12-40	13889204	479.542
HYFL:12-40	13889204	569.530
MO:20-36	3031961	119.889
MO:22-36	2488622	109.651
MO:24-36	2135868	117.304
BUNKC:12-50	14183019	0.000
DSL:10-12	1737969	0.000
DSL:12-16	6576528	0.000
DSL:16-24	4936165	0.000
MO:28-36	650101	81.345
MO:28-40	890744	105.531
MO:22-32	2173291	105.040
DSL:12-14	3555717	0.000
DSL:14-16	3020811	0.000
DSL:16-18	2544034	0.000
DSL:18-20	1550713	0.000
DSL:20-22	543339	0.000
DSL:22-24	352754	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

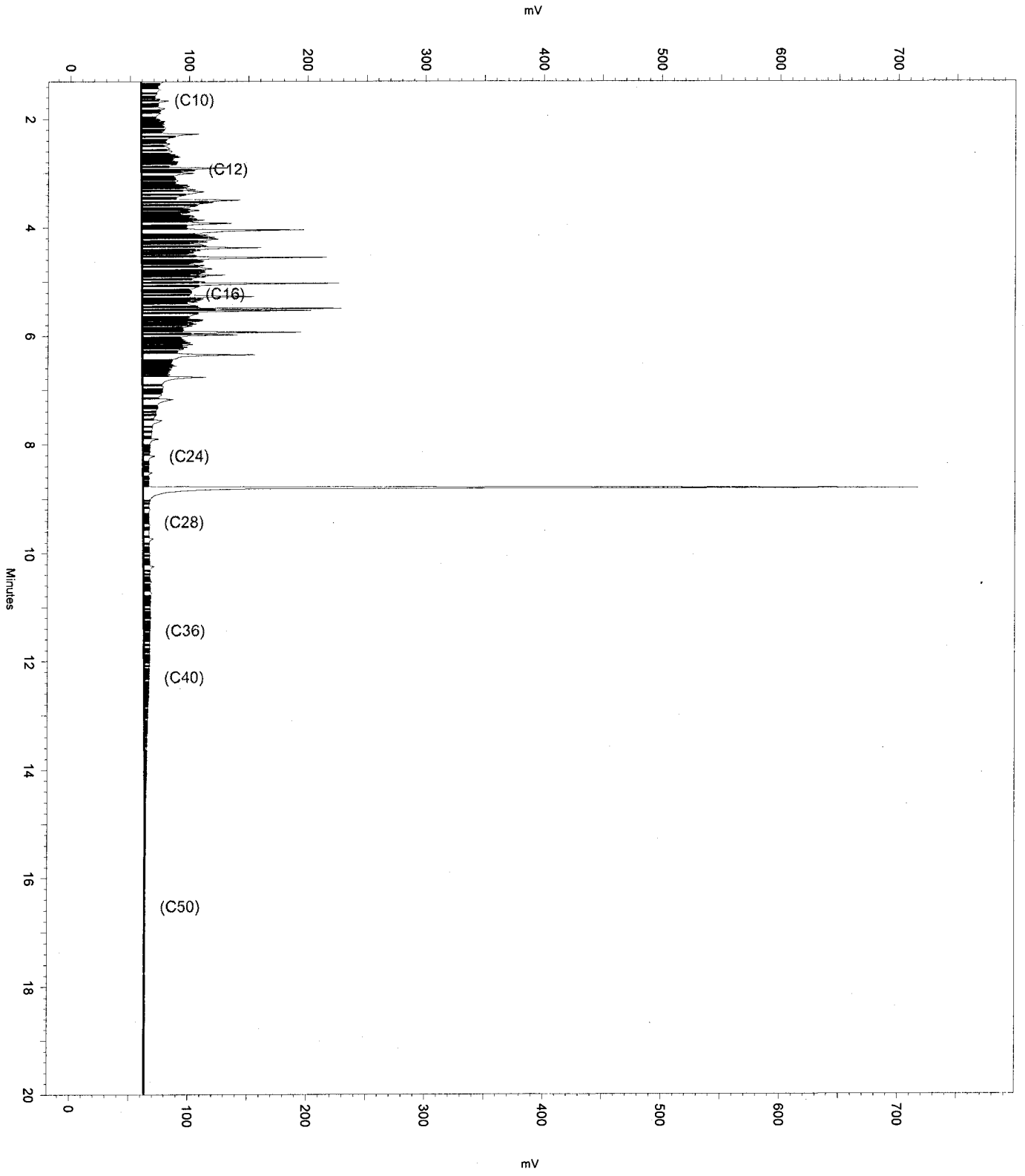
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Stop	0.453	13.723	0
Yes	Manual Peak	8.756	9.028	0
Yes	Move BL Stop	13.723	15.328	0

Sample Name: **msd,qc433679sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 12:20:56 PM
Analysis Date: 3/21/2008 4:33:59 PM
Instrument: GC15B Vial: 9 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

00149

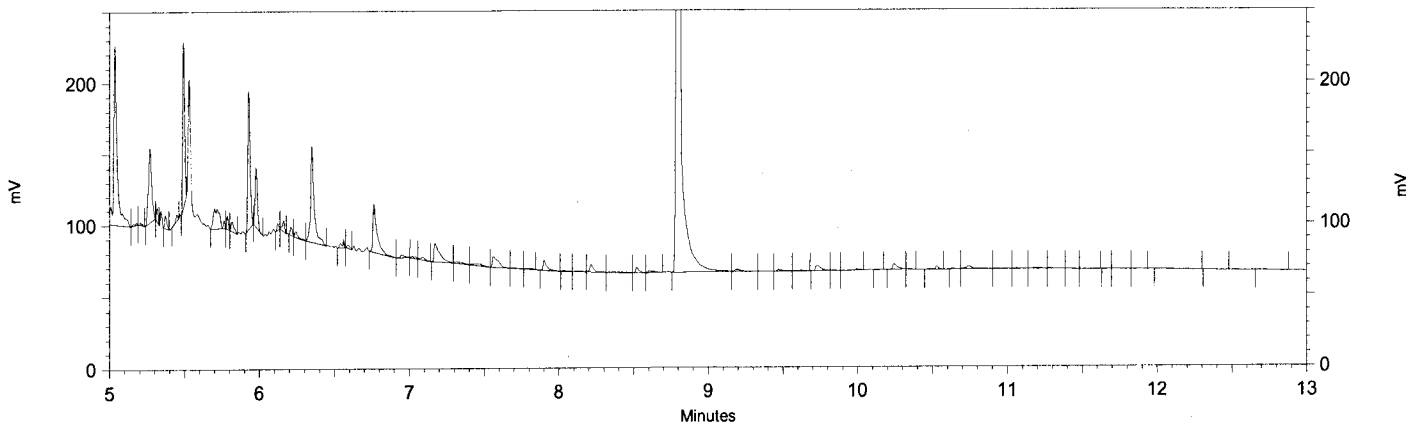
Sample Name: **msd,qc433679sg,136175**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 12:20:56 PM
Analysis Date: 3/21/2008 12:41:04 PM
Instrument: GC15B Vial: 9 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.812	1187175	44.903



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\081b009_7A09.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Curtis & Tompkins, Ltd.

Initial Calibration Raw Data

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763001
Units : mg/L

Name : DSL
Date : 18-OCT-2007 02:40
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b017	167416763017	DSL_10	18-OCT-2007 02:40	S6612
L2	289b018	167416763018	DSL_100	18-OCT-2007 03:07	S6613
L3	289b019	167416763019	DSL_500	18-OCT-2007 03:35	S6614
L4	289b020	167416763020	DSL_1000	18-OCT-2007 04:03	S6615
L5	289b021	167416763021	DSL_5000	18-OCT-2007 04:31	S6611
L6	289b022	167416763022	DSL_7500	18-OCT-2007 04:58	S6616

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	23294	26355	25904	26080	28152	26566	AVRG		3.84E-5		26059	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-11	100.0	1	500.0	-1	1000	0	5000	8	7500	2

Analyst: ATL Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

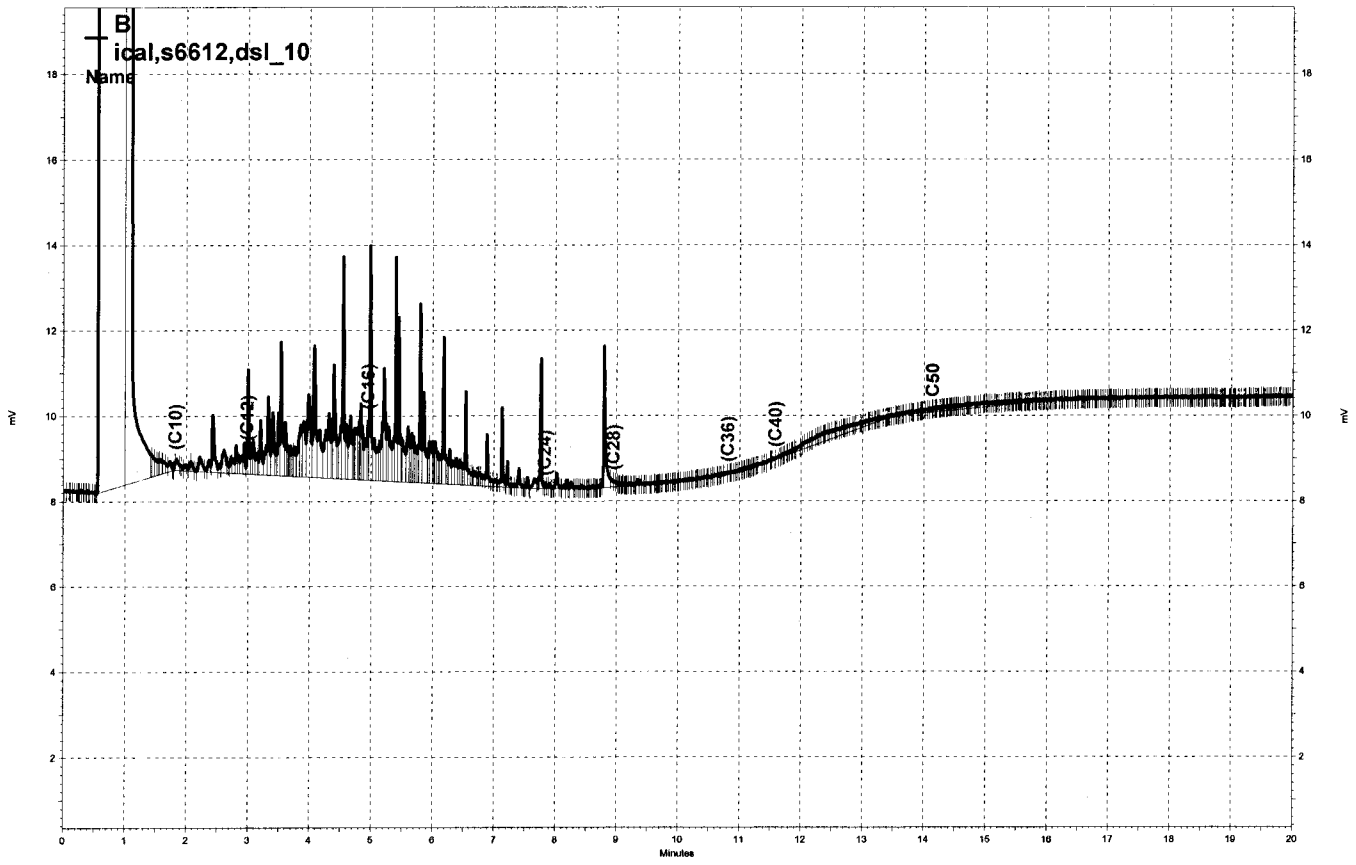
CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B
Calnum : 167416763001

Name : DSL
Cal Date : 18-OCT-2007

ICV 167416763024 (289b024 18-OCT-2007) stds: S6617 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	26059	27062	500.0	519.3	mg/L	4	



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b017, B

Sample Name: **ical,s6612,dsl_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 2:40:03 AM
Analysis Date: 10/20/2007 10:47:27 AM
Instrument: GC15B Vial: 17 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	137062	0.000 CAL
JP8:10-16	137062	0.000 CAL
KER:10-16	137062	0.000 CAL
JP5:10-16	137062	0.000 CAL
DSL:10-20	230093	10.000 CAL
DSL:10-22	242980	10.000 CAL
DSL:10-24	250308	10.000 CAL
DSL:12-22	225614	10.000 CAL
DSL:10-28	260585	10.000 CAL
DSL:12-24	232942	10.000 CAL
DSL:12-32	245830	10.000 CAL
BUNKC:12-40	248676	0.000 CAL
HYFL:12-40	248676	0.000 CAL
MO:20-36	34630	0.000 CAL
MO:22-36	21743	0.000 CAL
MO:24-36	14415	0.000 CAL
BUNKC:12-50	263895	0.000 CAL
DSL:10-12	17366	0.000 CAL
DSL:12-16	119696	0.000 CAL
DSL:16-24	113246	0.000 CAL
MO:28-36	4138	0.000 CAL
MO:28-40	5457	0.000 CAL
MO:22-32	20216	0.000 CAL
DSL:12-14	53805	0.000 CAL
DSL:14-16	65891	0.000 CAL
DSL:16-18	57351	0.000 CAL
DSL:18-20	35680	0.000 CAL
DSL:20-22	12887	0.000 CAL
DSL:22-24	7328	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

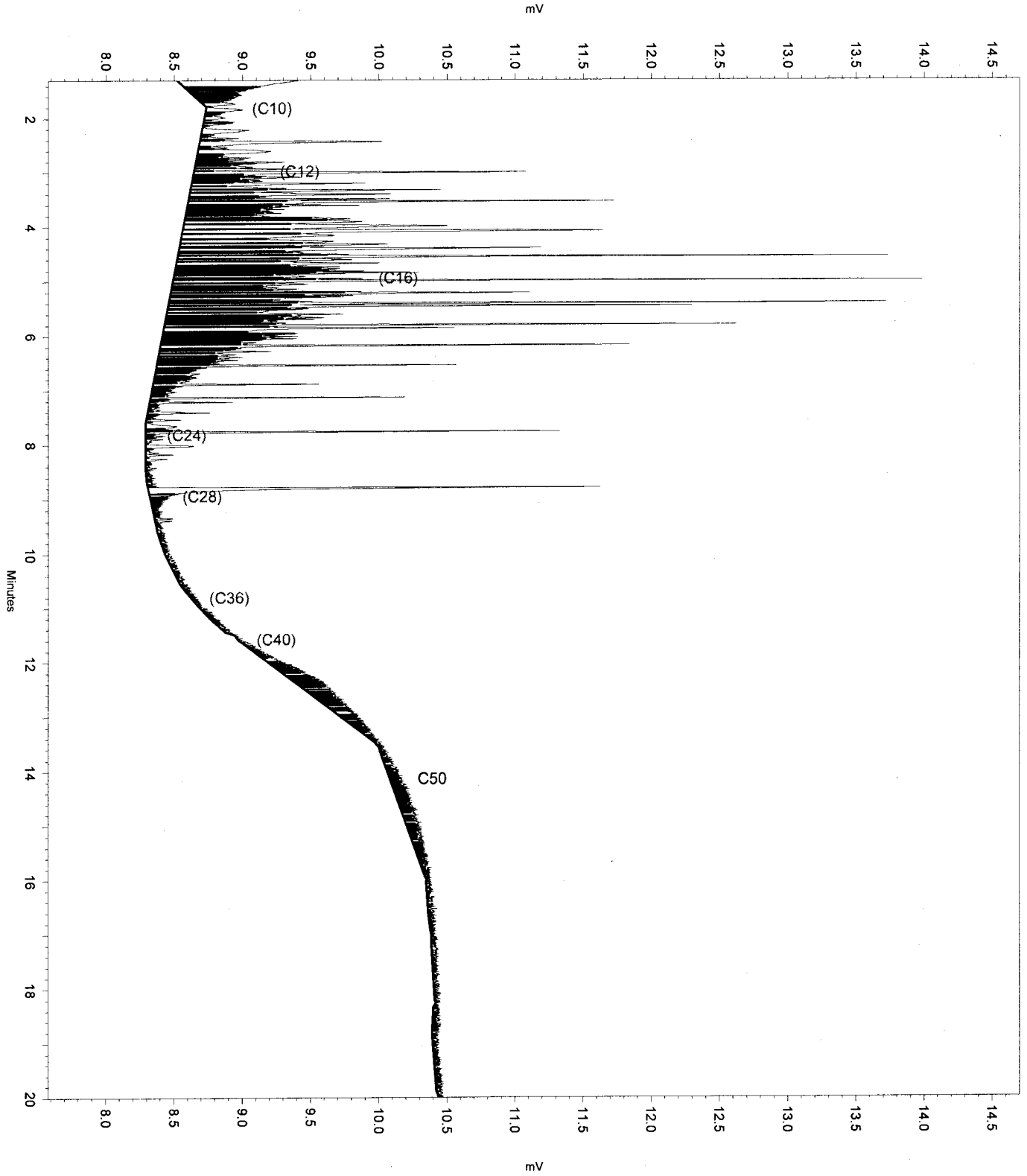
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	1.792	0	0
Yes	Move BL Stop	1.792	1.793	0
Yes	Move BL Start	7.477	1.793	0

Sample Name: **ical,s6612,dsl_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 2:40:03 AM
Analysis Date: 10/20/2007 10:47:27 AM
Instrument: GC15B Vial: 17 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

09151

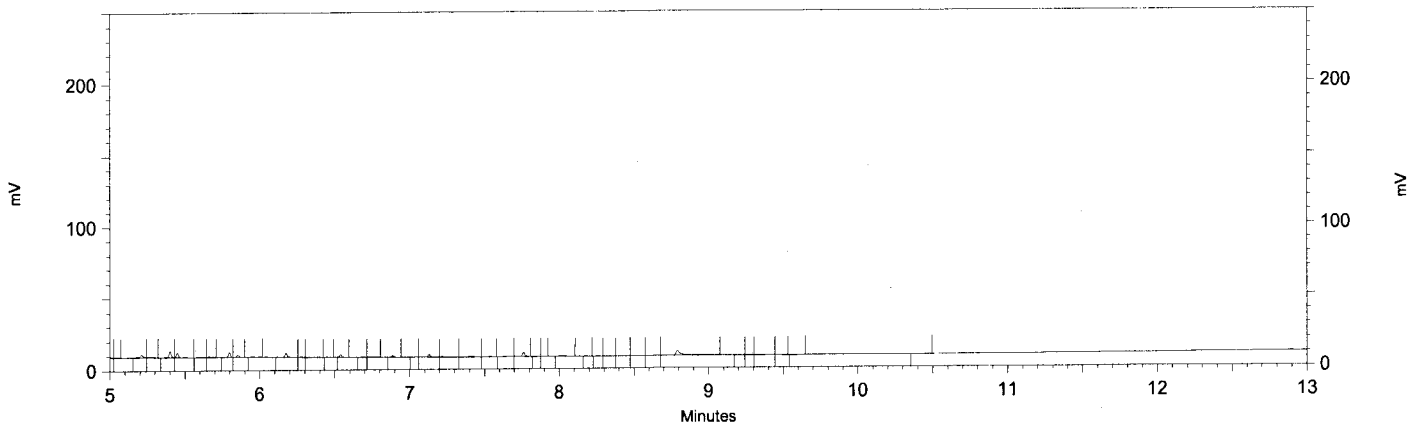
Sample Name: **ical,s6612,dsl_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 2:40:03 AM
Analysis Date: 10/18/2007 3:00:13 AM
Instrument: GC15B Vial: 17 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.418	185	0.005



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

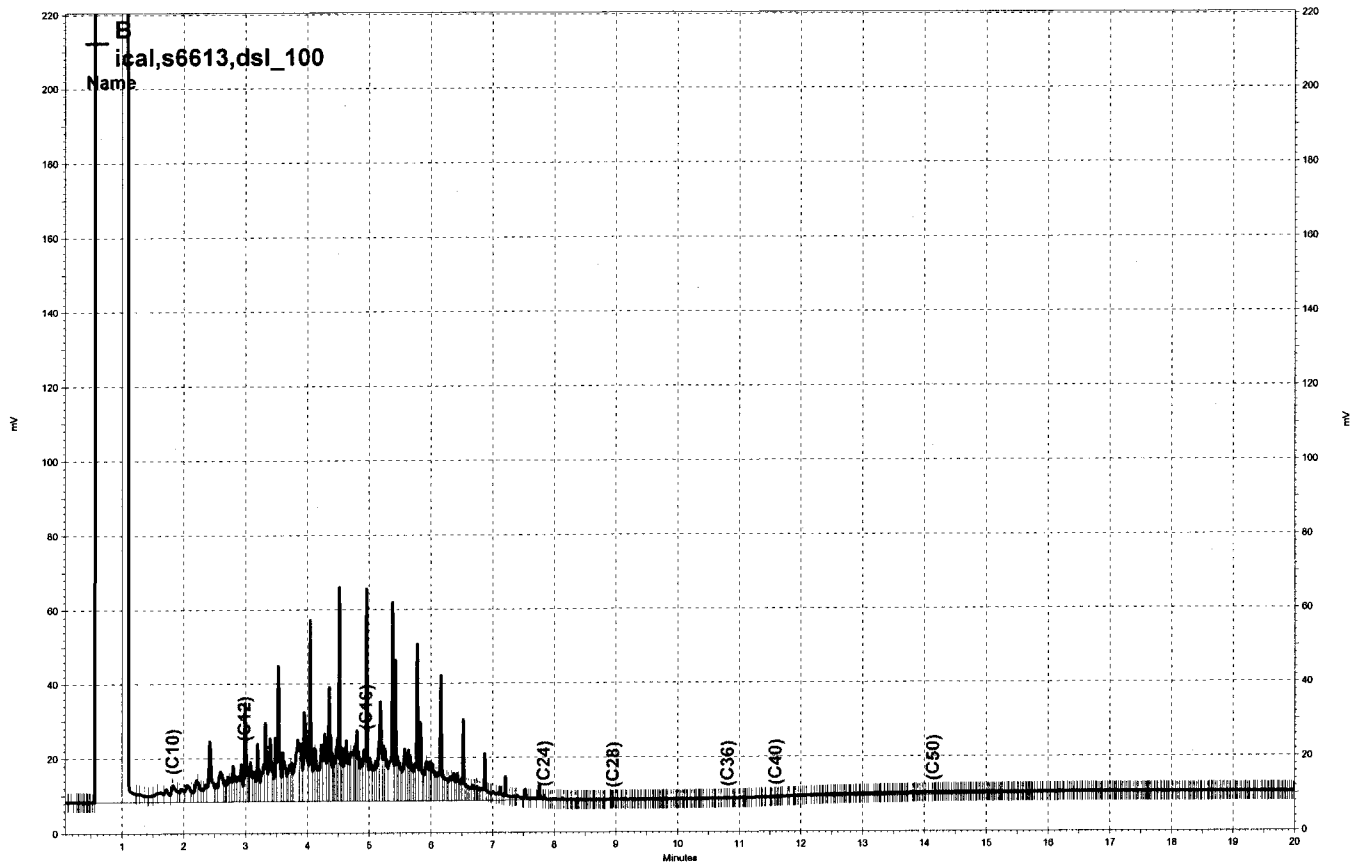
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b017_9E6B.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b018, B

Sample Name: **ical,s6613,dsl_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 3:07:49 AM
Analysis Date: 10/20/2007 10:47:50 AM
Instrument: GC15B Vial: 18 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	1798160	0.000 CAL
JP8:10-16	1798160	0.000 CAL
KER:10-16	1798160	0.000 CAL
JP5:10-16	1798160	0.000 CAL
DSL:10-20	2805721	100.000 CAL
DSL:10-22	2945771	100.000 CAL
DSL:10-24	2983911	100.000 CAL
DSL:12-22	2597383	100.000 CAL
DSL:10-28	2993167	100.000 CAL
DSL:12-24	2635523	100.000 CAL
DSL:12-32	2646988	100.000 CAL
BUNKC:12-40	2653399	0.000 CAL
HYFL:12-40	2653399	0.000 CAL
MO:20-36	191490	0.000 CAL
MO:22-36	51440	0.000 CAL
MO:24-36	13300	0.000 CAL
BUNKC:12-50	2739002	0.000 CAL
DSL:10-12	348388	0.000 CAL
DSL:12-16	1449772	0.000 CAL
DSL:16-24	1185751	0.000 CAL
MO:28-36	4044	0.000 CAL
MO:28-40	8620	0.000 CAL
MO:22-32	49605	0.000 CAL
DSL:12-14	693506	0.000 CAL
DSL:14-16	756266	0.000 CAL
DSL:16-18	618154	0.000 CAL
DSL:18-20	389407	0.000 CAL
DSL:20-22	140050	0.000 CAL
DSL:22-24	38140	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

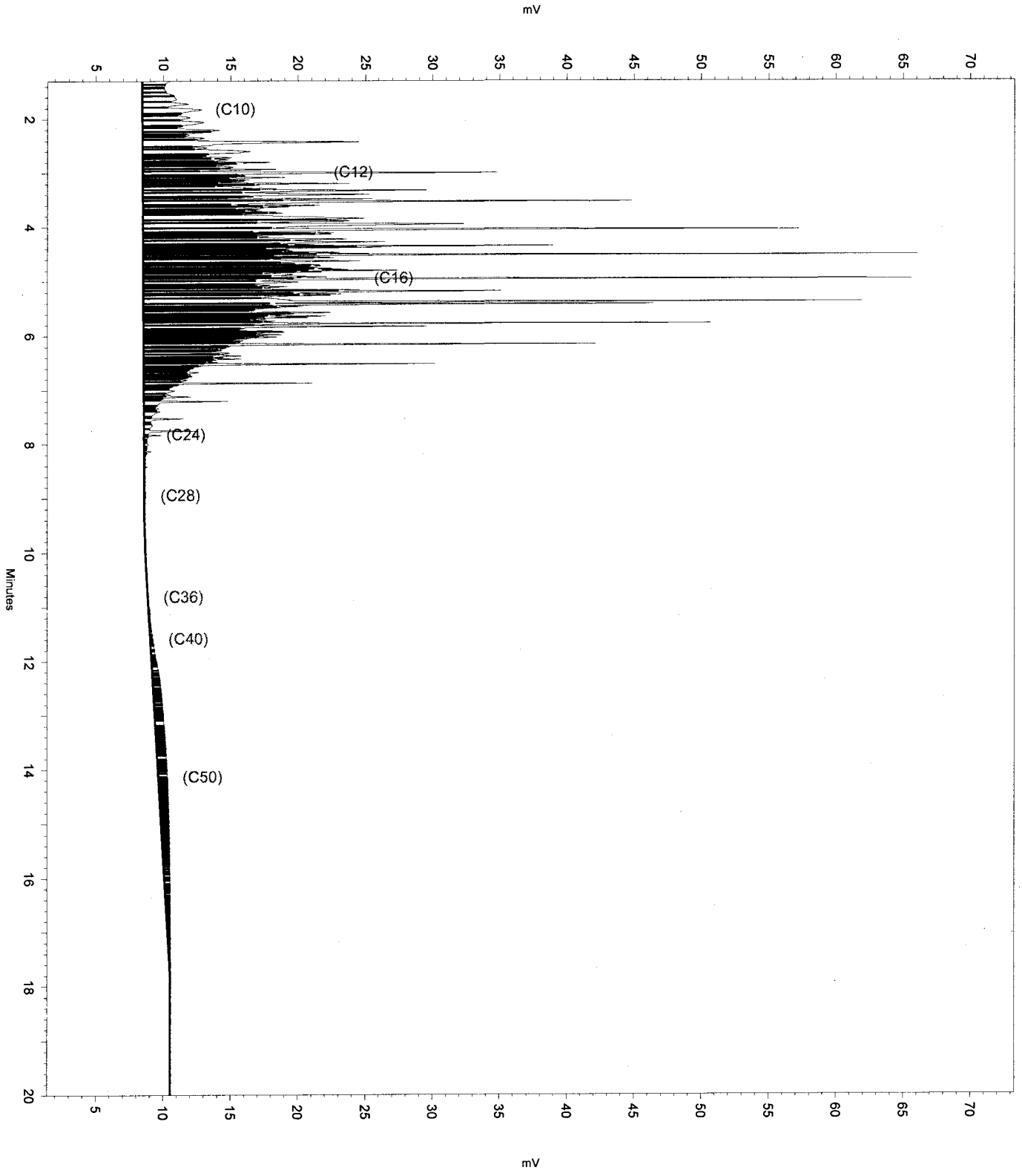
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	1.363	9.42	0

: 28154

Sample Name: **ical,s6613,dsl_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 3:07:49 AM
Analysis Date: 10/20/2007 10:47:50 AM
Instrument: GC15B Vial: 18 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

00155

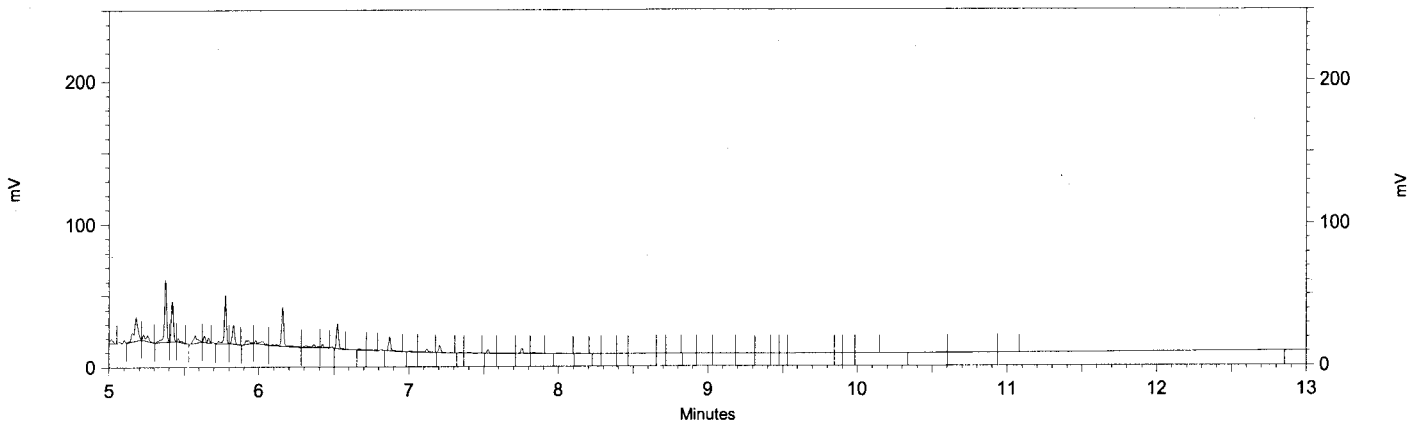
Sample Name: **ical,s6613,dsl_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 3:07:49 AM
Analysis Date: 10/18/2007 3:27:57 AM
Instrument: GC15B Vial: 18 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.417	316	0.009



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

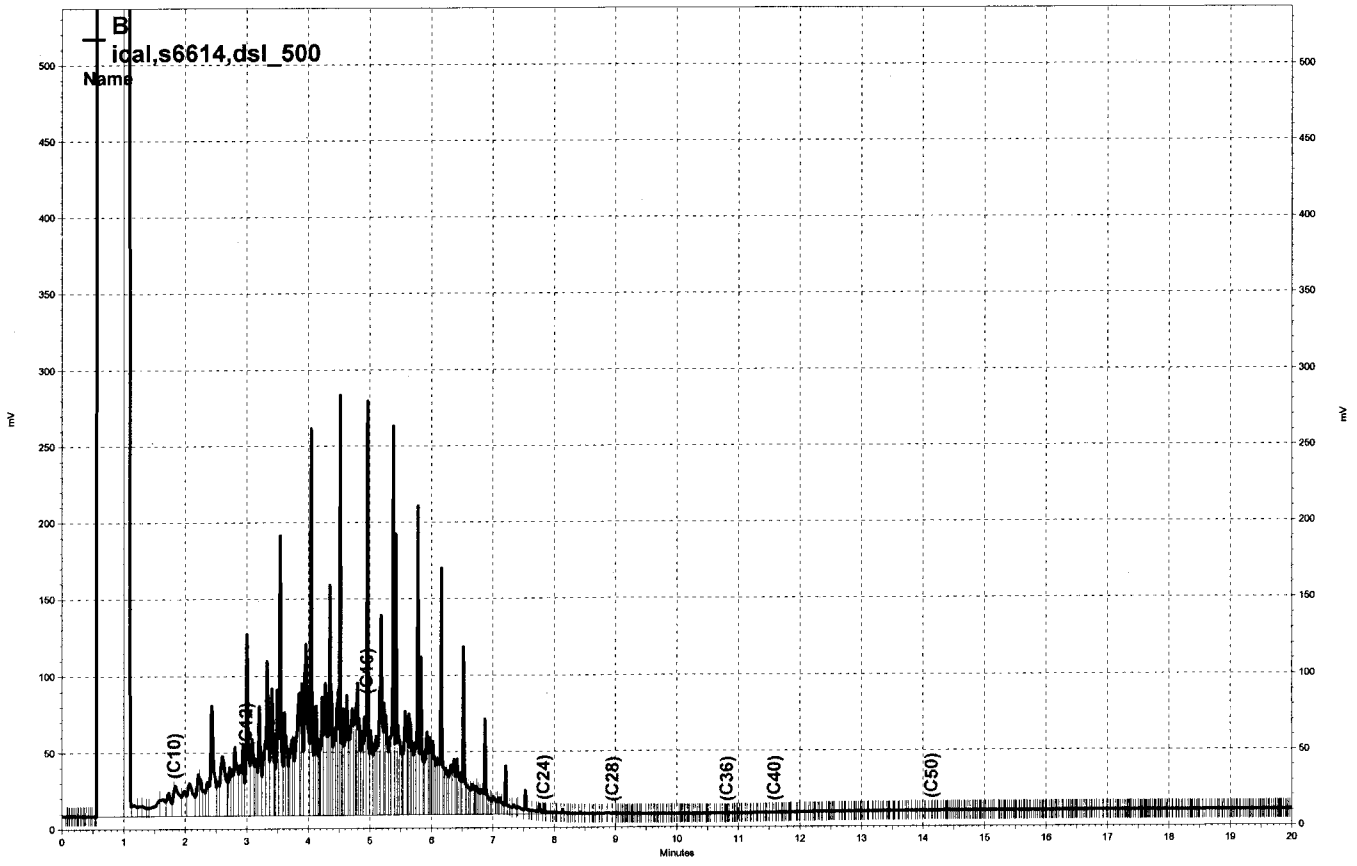
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b018_9E6C.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b019, B

Sample Name: **ical,s6614,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 3:35:30 AM
Analysis Date: 10/20/2007 10:47:59 AM
Instrument: GC15B Vial: 19 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	8824260	0.000 CAL
JP8:10-16	8824260	0.000 CAL
KER:10-16	8824260	0.000 CAL
JP5:10-16	8824260	0.000 CAL
DSL:10-20	13770061	500.000 CAL
DSL:10-22	14464747	500.000 CAL
DSL:10-24	14641481	500.000 CAL
DSL:12-22	12775305	500.000 CAL
DSL:10-28	14691820	500.000 CAL
DSL:12-24	12952039	500.000 CAL
DSL:12-32	13007391	500.000 CAL
BUNKC:12-40	13010936	0.000 CAL
HYFL:12-40	13010936	0.000 CAL
MO:20-36	928318	0.000 CAL
MO:22-36	233632	0.000 CAL
MO:24-36	56898	0.000 CAL
BUNKC:12-50	13063919	0.000 CAL
DSL:10-12	1689442	0.000 CAL
DSL:12-16	7134818	0.000 CAL
DSL:16-24	5817221	0.000 CAL
MO:28-36	6559	0.000 CAL
MO:28-40	8558	0.000 CAL
MO:22-32	232086	0.000 CAL
DSL:12-14	3431715	0.000 CAL
DSL:14-16	3703103	0.000 CAL
DSL:16-18	3038783	0.000 CAL
DSL:18-20	1907018	0.000 CAL
DSL:20-22	694686	0.000 CAL
DSL:22-24	176734	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

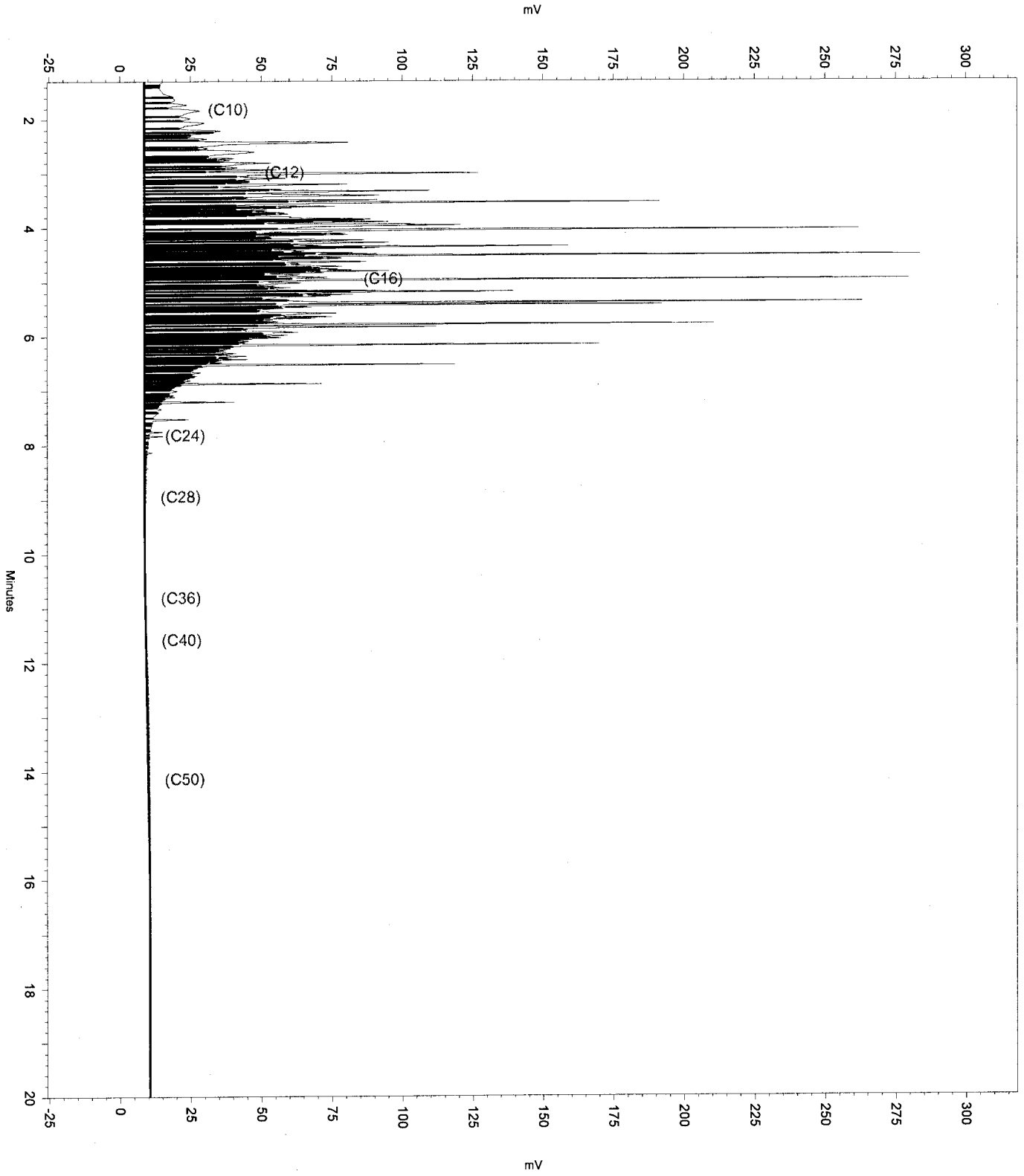
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s6614,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 3:35:30 AM
Analysis Date: 10/20/2007 10:47:59 AM
Instrument: GC15B Vial: 19 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

0159

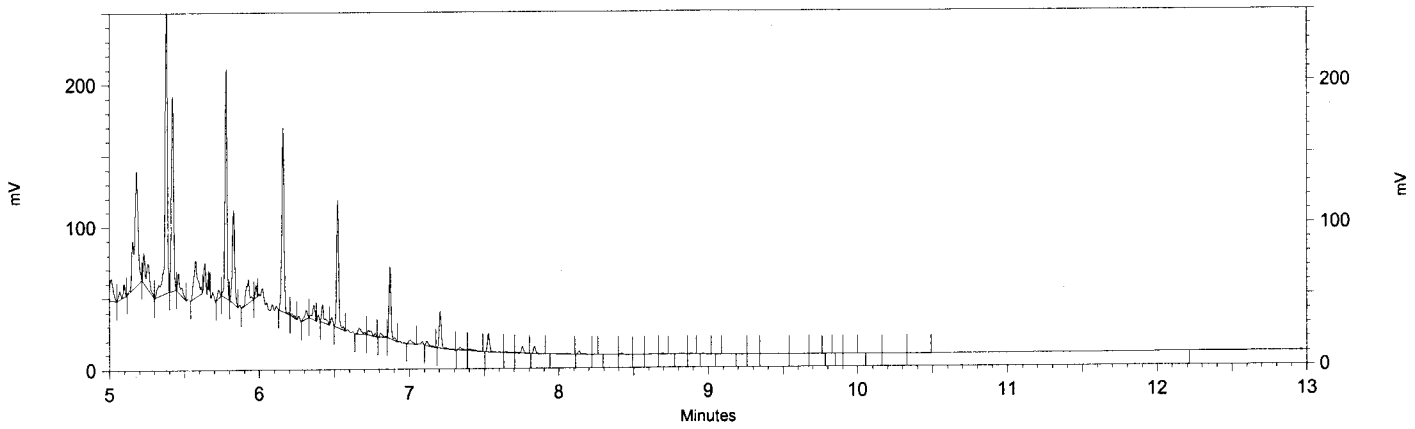
Sample Name: **ical,s6614,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 3:35:30 AM
Analysis Date: 10/18/2007 3:55:40 AM
Instrument: GC15B Vial: 19 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.420	1272	0.037



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

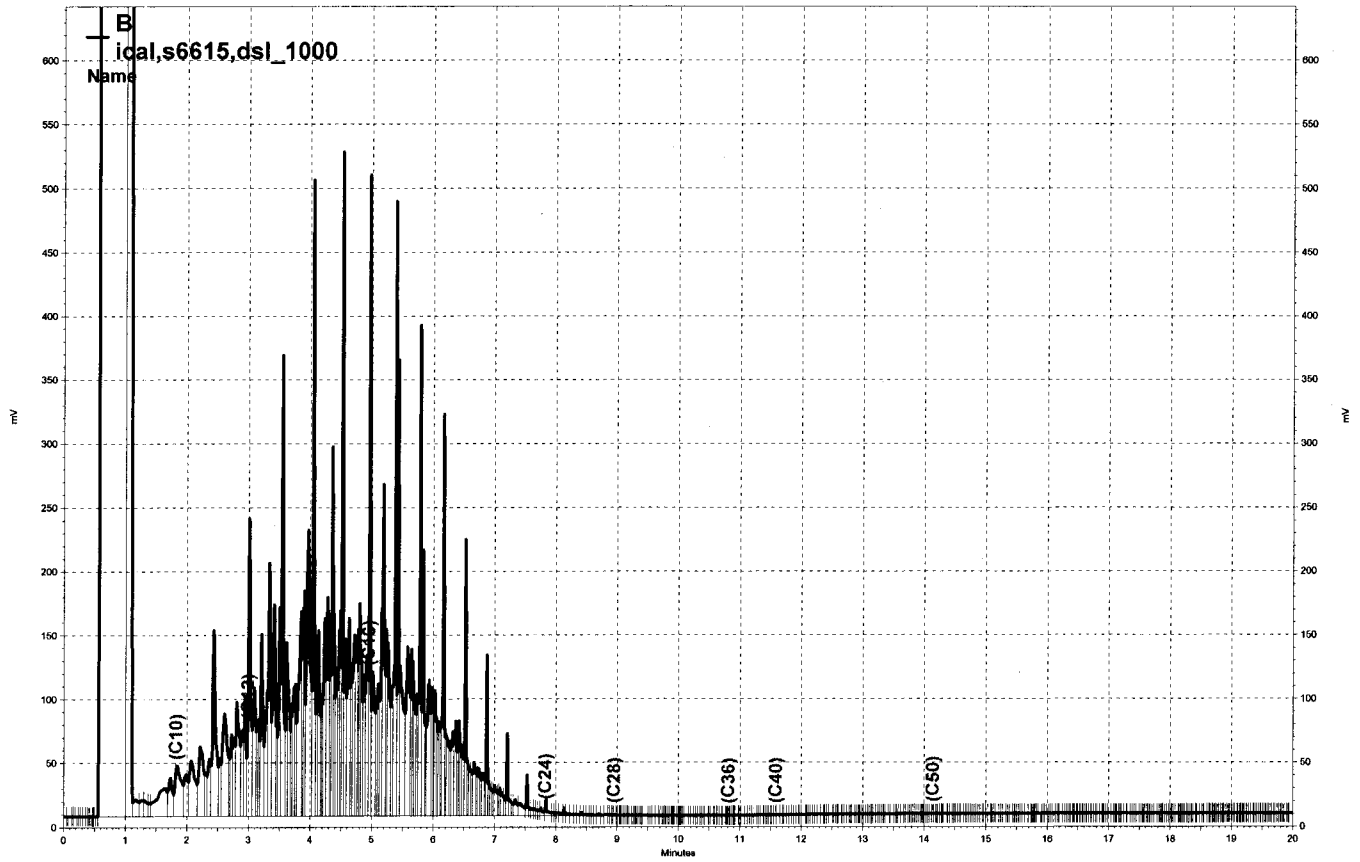
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b019_9E6D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b020, B

Sample Name: **ical,s6615,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 4:03:11 AM
Analysis Date: 10/20/2007 10:48:11 AM
Instrument: GC15B Vial: 20 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	17851156	0.000 CAL
JP8:10-16	17851156	0.000 CAL
KER:10-16	17851156	0.000 CAL
JP5:10-16	17851156	0.000 CAL
DSL:10-20	27780412	1000.000 CAL
DSL:10-22	29156428	1000.000 CAL
DSL:10-24	29504872	1000.000 CAL
DSL:12-22	25732024	1000.000 CAL
DSL:10-28	29600854	1000.000 CAL
DSL:12-24	26080468	1000.000 CAL
DSL:12-32	26183924	1000.000 CAL
BUNKC:12-40	26186912	0.000 CAL
HYFL:12-40	26186912	0.000 CAL
MO:20-36	1829413	0.000 CAL
MO:22-36	453396	0.000 CAL
MO:24-36	104955	0.000 CAL
BUNKC:12-50	26195100	0.000 CAL
DSL:10-12	3424408	0.000 CAL
DSL:12-16	14426747	0.000 CAL
DSL:16-24	11653717	0.000 CAL
MO:28-36	8972	0.000 CAL
MO:28-40	10462	0.000 CAL
MO:22-32	451898	0.000 CAL
DSL:12-14	6969544	0.000 CAL
DSL:14-16	7457203	0.000 CAL
DSL:16-18	6105273	0.000 CAL
DSL:18-20	3823986	0.000 CAL
DSL:20-22	1376017	0.000 CAL
DSL:22-24	348441	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

Manual Integration Fixes

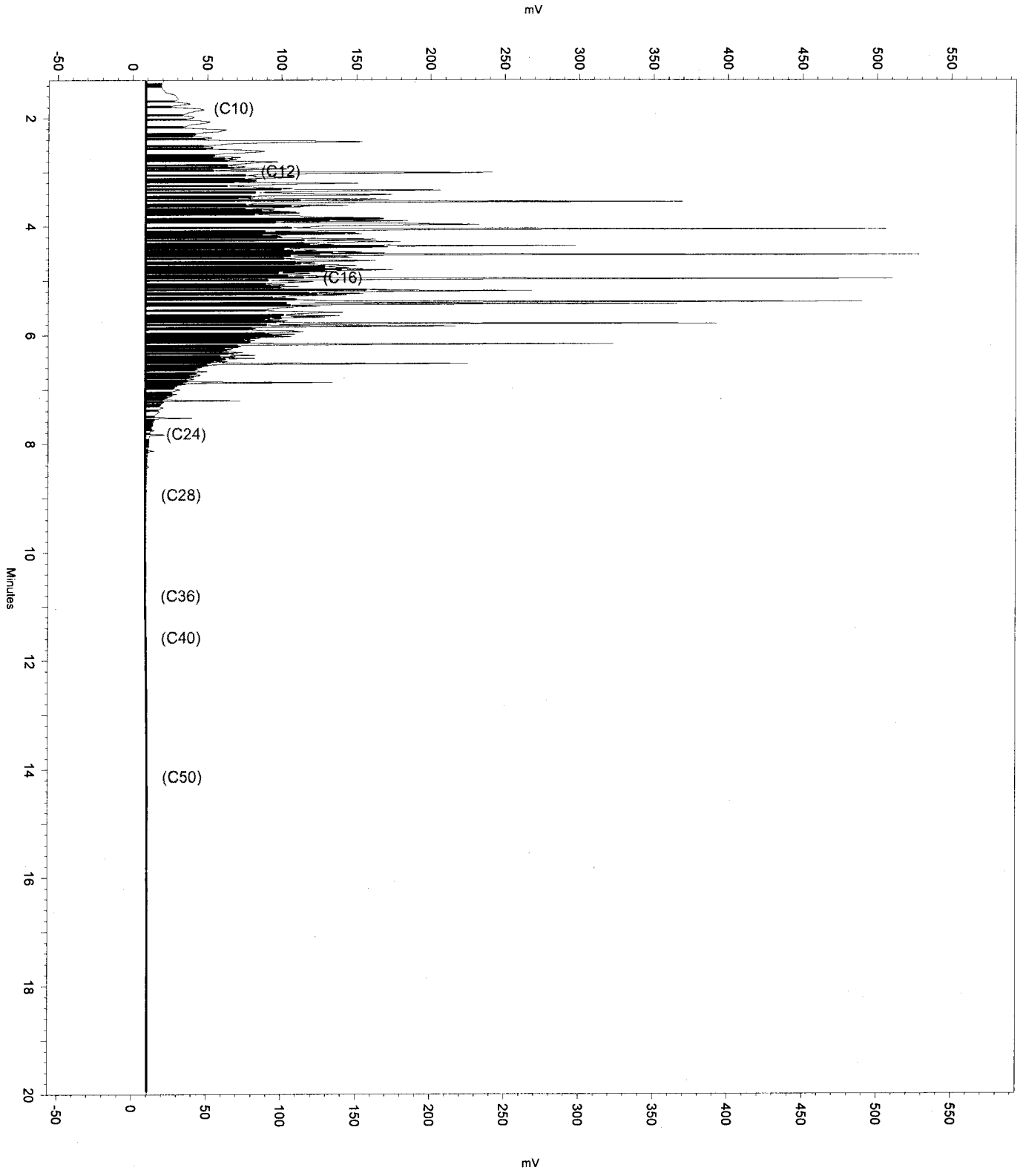
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

 Curtis & Tompkins Ltd.

Sample Name: **ical,s6615,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 4:03:11 AM
Analysis Date: 10/20/2007 10:48:11 AM
Instrument: GC15B Vial: 20 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

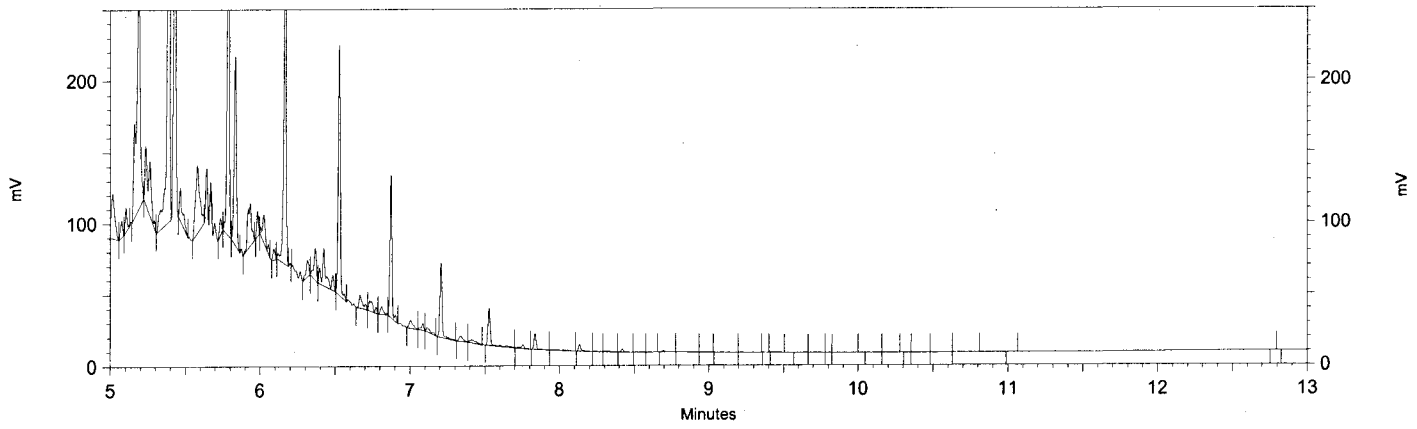
Sample Name: **ical,s6615,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 4:03:11 AM
Analysis Date: 10/18/2007 4:23:21 AM
Instrument: GC15B Vial: 20 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.420	2363	0.069



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

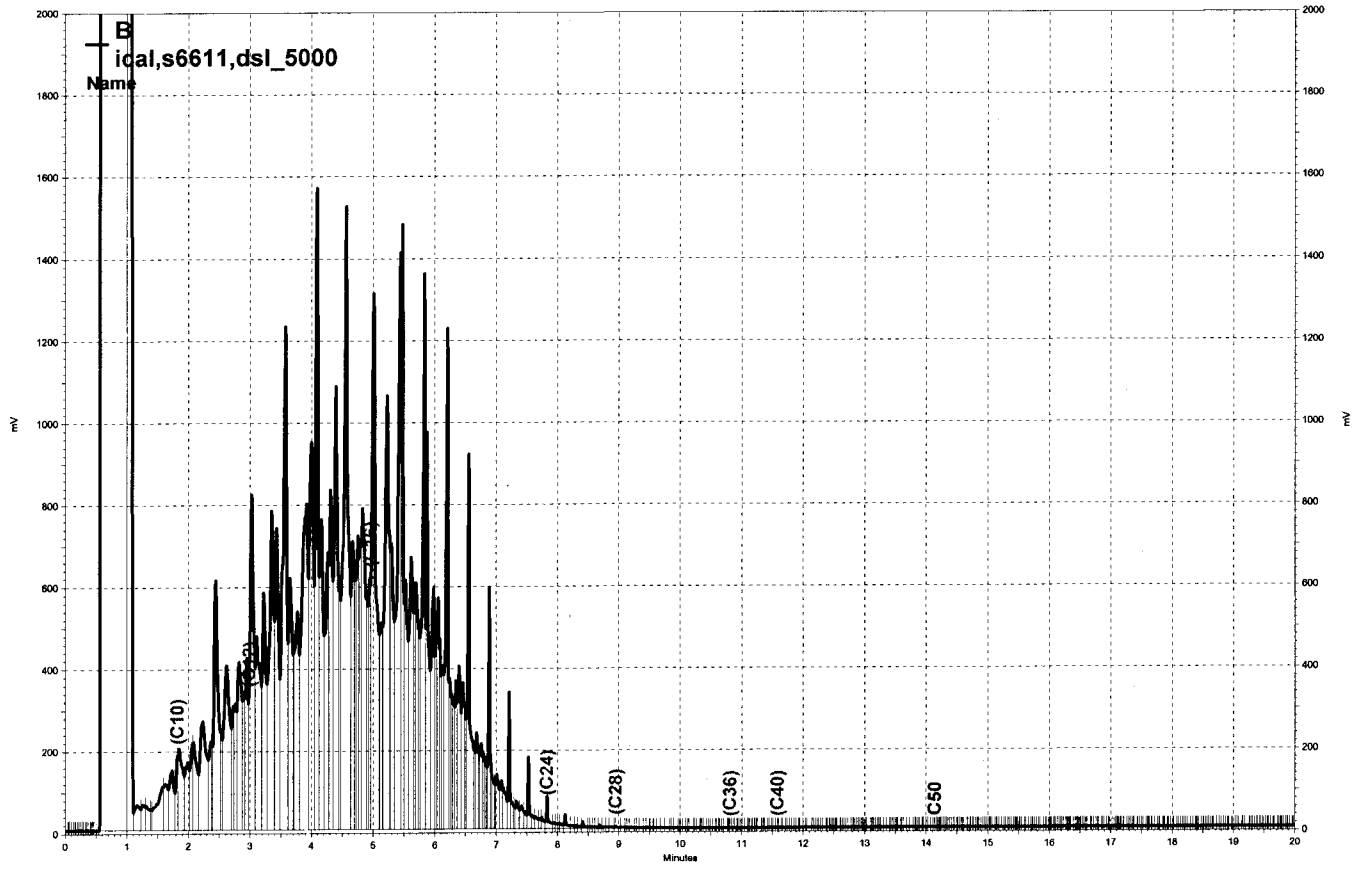
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b020_9E6E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b021, B

Sample Name: **ical,s6611,dsl_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b021**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 4:31:00 AM
Analysis Date: 10/20/2007 10:48:22 AM
Instrument: GC15B Vial: 21 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	93741312	0.000 CAL
JP8:10-16	93741312	0.000 CAL
KER:10-16	93741312	0.000 CAL
JP5:10-16	93741312	0.000 CAL
DSL:10-20	149289840	5000.000 CAL
DSL:10-22	157059104	5000.000 CAL
DSL:10-24	158970704	5000.000 CAL
DSL:12-22	138846784	5000.000 CAL
DSL:10-28	159520688	5000.000 CAL
DSL:12-24	140758384	5000.000 CAL
DSL:12-32	141369600	5000.000 CAL
BUNKC:12-40	141379296	0.000 CAL
HYFL:12-40	141379296	0.000 CAL
MO:20-36	10300428	0.000 CAL
MO:22-36	2531168	0.000 CAL
MO:24-36	619587	0.000 CAL
BUNKC:12-50	141390672	0.000 CAL
DSL:10-12	18212272	0.000 CAL
DSL:12-16	75529024	0.000 CAL
DSL:16-24	65229328	0.000 CAL
MO:28-36	69594	0.000 CAL
MO:28-40	70831	0.000 CAL
MO:22-32	2522772	0.000 CAL
DSL:12-14	37206828	0.000 CAL
DSL:14-16	38322192	0.000 CAL
DSL:16-18	34181280	0.000 CAL
DSL:18-20	21367202	0.000 CAL
DSL:20-22	7769260	0.000 CAL
DSL:22-24	1911581	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

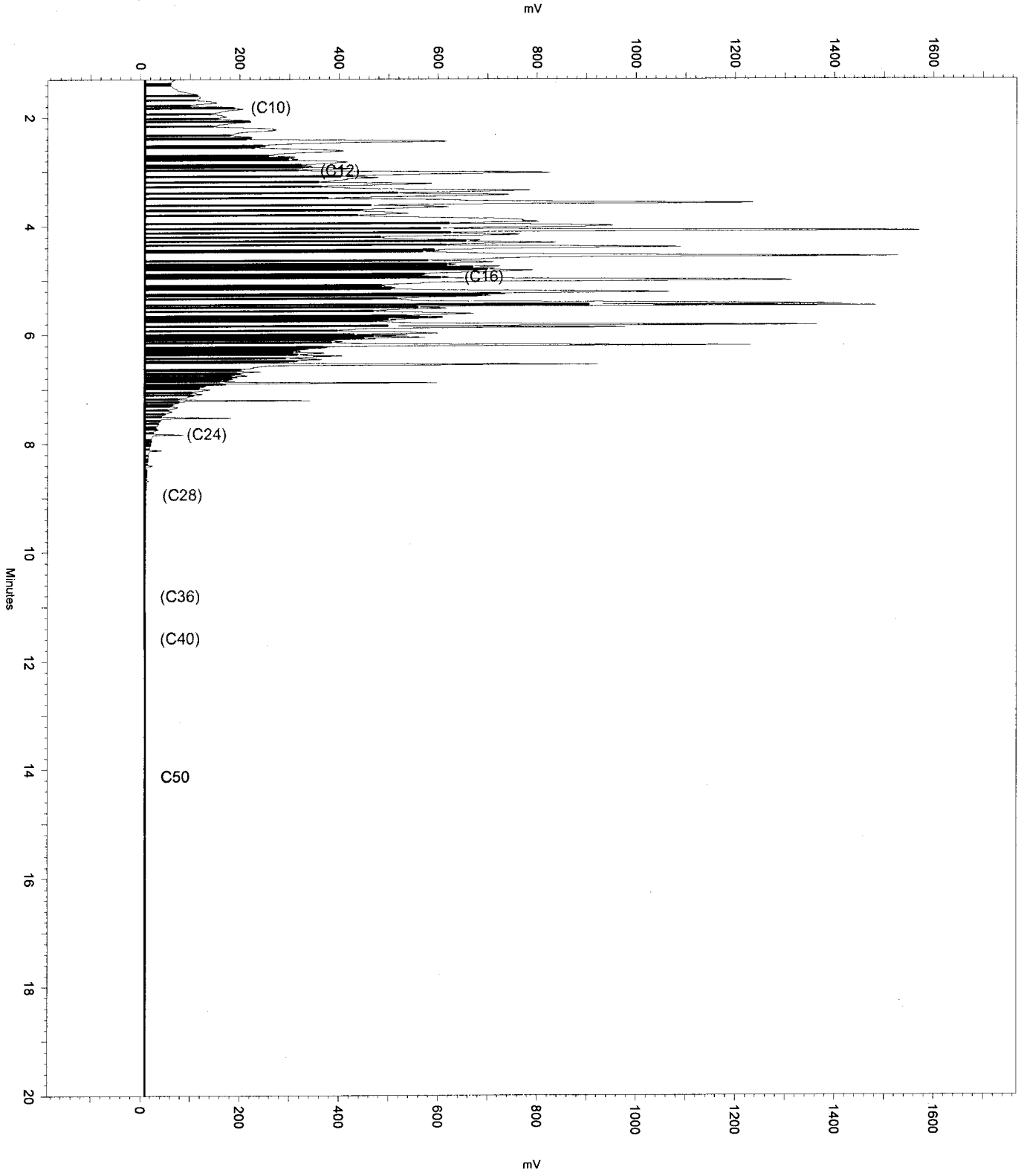
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

00156

Sample Name: **ical,s6611,dsl_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b021**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 4:31:00 AM
Analysis Date: 10/20/2007 10:48:22 AM
Instrument: GC15B Vial: 21 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

00167

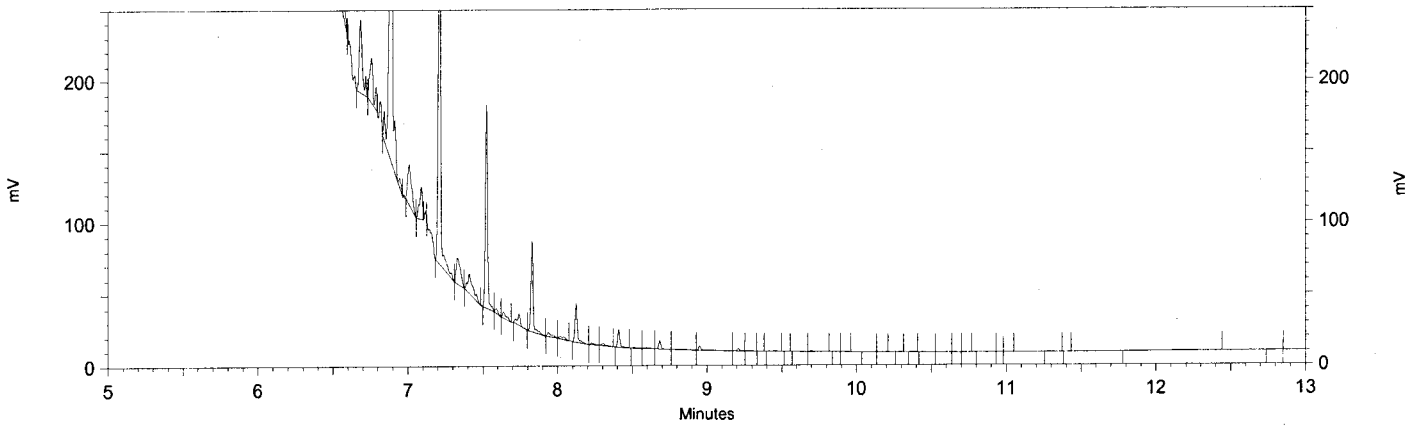
Sample Name: **ical,s6611,dsl_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b021**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 4:31:00 AM
Analysis Date: 10/18/2007 4:51:11 AM
Instrument: GC15B Vial: 21 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.408	13277	0.389



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

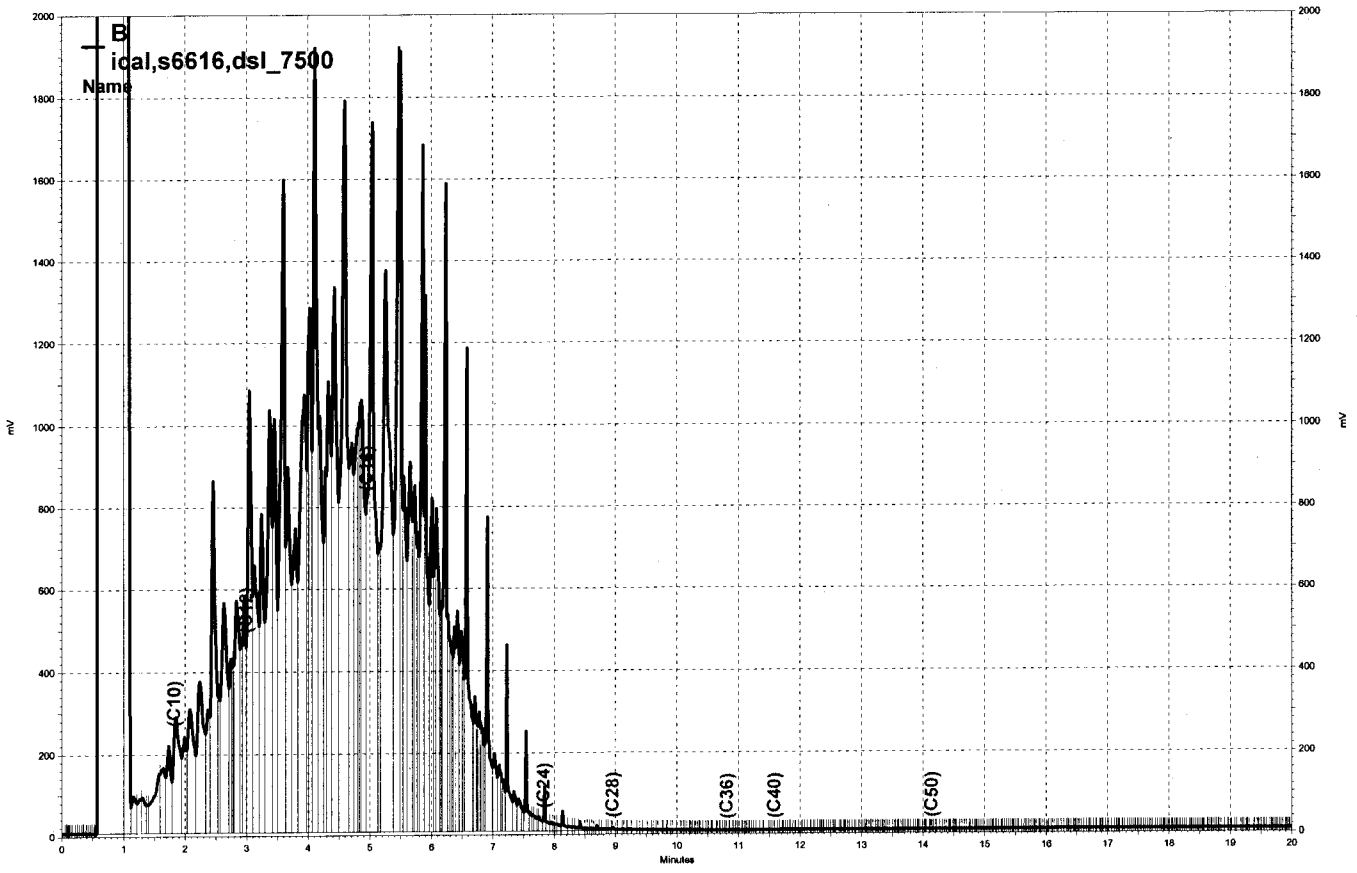
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b021_9E6F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b022, B

Sample Name: **ical,s6616,dsl_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b022**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 4:58:55 AM
Analysis Date: 10/20/2007 10:48:31 AM
Instrument: GC15B Vial: 22 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	132456720	0.000 CAL
JP8:10-16	132456720	0.000 CAL
KER:10-16	132456720	0.000 CAL
JP5:10-16	132456720	0.000 CAL
DSL:10-20	210543840	7500.000 CAL
DSL:10-22	222312832	7500.000 CAL
DSL:10-24	224993488	7500.000 CAL
DSL:12-22	196565120	7500.000 CAL
DSL:10-28	225774128	7500.000 CAL
DSL:12-24	199245776	7500.000 CAL
DSL:12-32	200119584	7500.000 CAL
BUNKC:12-40	200134848	0.000 CAL
HYFL:12-40	200134848	0.000 CAL
MO:20-36	15336881	0.000 CAL
MO:22-36	3567889	0.000 CAL
MO:24-36	887236	0.000 CAL
BUNKC:12-50	200148000	0.000 CAL
DSL:10-12	25747708	0.000 CAL
DSL:12-16	106709000	0.000 CAL
DSL:16-24	92536728	0.000 CAL
MO:28-36	106594	0.000 CAL
MO:28-40	108491	0.000 CAL
MO:22-32	3554497	0.000 CAL
DSL:12-14	48333768	0.000 CAL
DSL:14-16	58375240	0.000 CAL
DSL:16-18	47937152	0.000 CAL
DSL:18-20	30149936	0.000 CAL
DSL:20-22	11768992	0.000 CAL
DSL:22-24	2680653	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b022

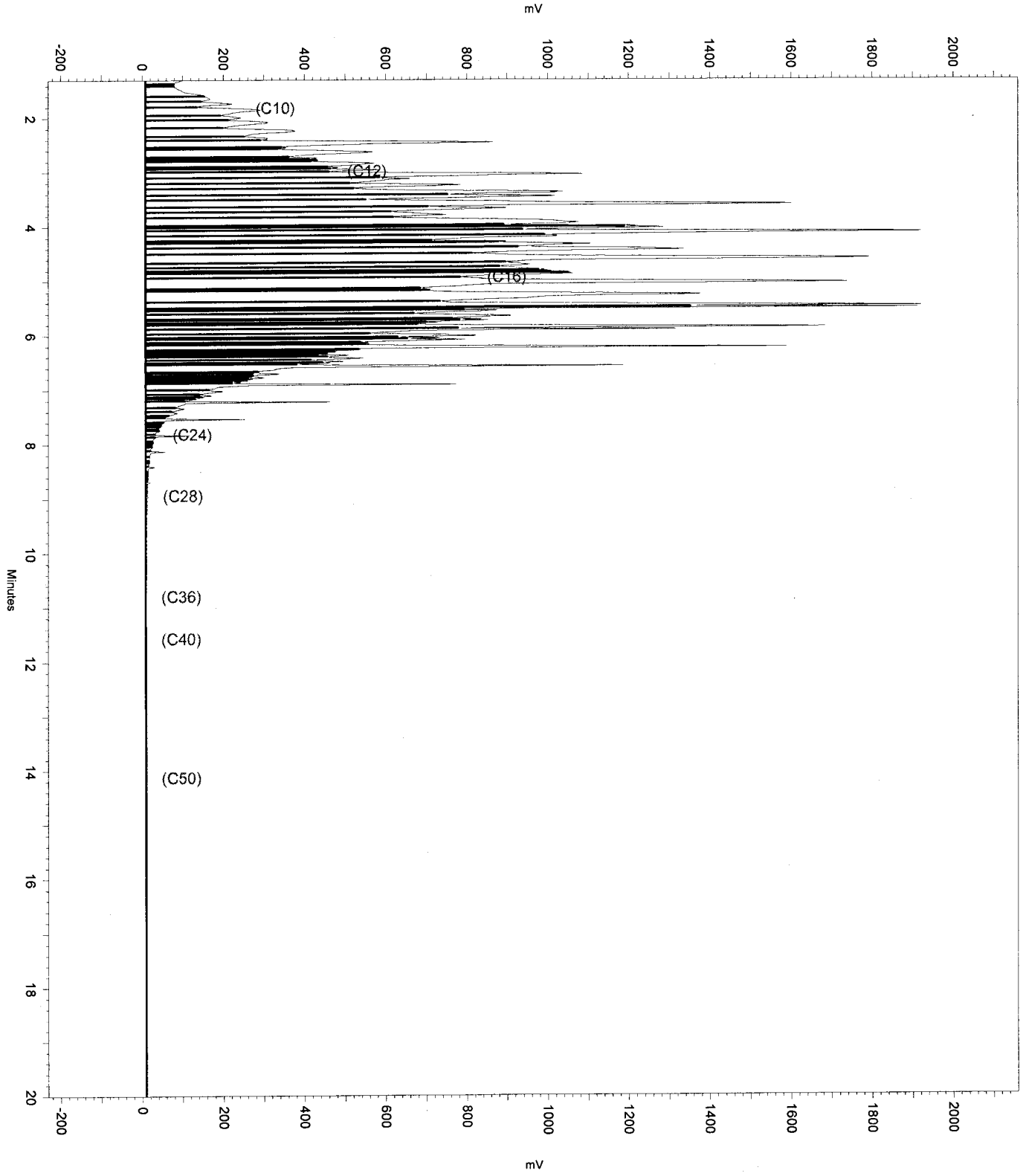
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

 Curtis & Tompkins Ltd.

: 00170

Sample Name: **ical,s6616,dsl_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b022**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 4:58:55 AM
Analysis Date: 10/20/2007 10:48:31 AM
Instrument: GC15B Vial: 22 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

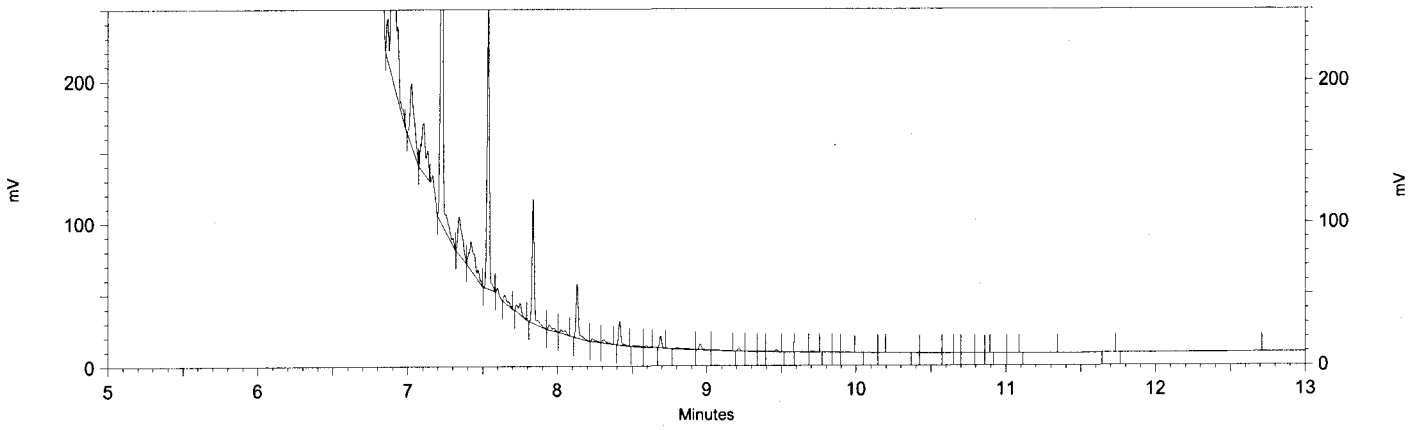
Sample Name: **ical,s6616,dsl_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b022**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 4:58:55 AM
Analysis Date: 10/18/2007 5:19:04 AM
Instrument: GC15B Vial: 22 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.417	18525	0.543



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

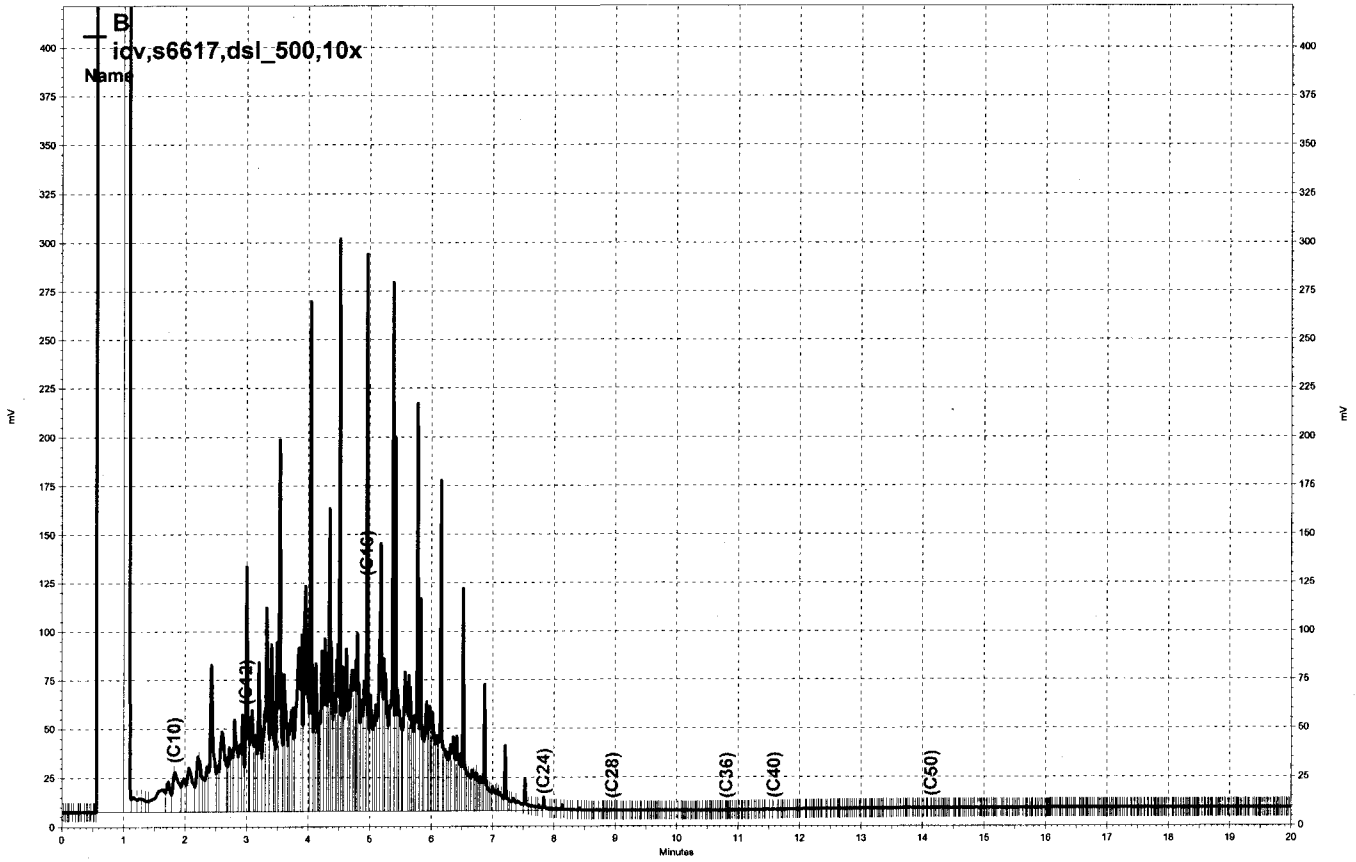
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b022_9E70.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b024, B

Sample Name: **icv,s6617,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b024**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290.met
Run Date: 10/18/2007 5:54:44 AM
Analysis Date: 10/20/2007 10:32:07 AM
Instrument: GC15B Vial: 24 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	9215770	0.000
JP8:10-16	9215770	0.000
KER:10-16	9215770	0.000
JP5:10-16	9215770	0.000
DSL:10-20	14395576	416.256
DSL:10-22	15114652	411.955
DSL:10-24	15293402	409.697
DSL:12-22	13352201	408.808
DSL:10-28	15339772	407.855
DSL:12-24	13530951	406.337
DSL:12-32	13580190	403.372
BUNKC:12-40	13582587	0.000
HYFL:12-40	13582587	0.000
MO:20-36	948280	32.136
MO:22-36	229204	8.866
MO:24-36	50454	2.617
BUNKC:12-50	13599027	0.000
DSL:10-12	1762451	0.000
DSL:12-16	7453319	0.000
DSL:16-24	6077632	0.000
MO:28-36	4084	0.685
MO:28-40	5266	0.848
MO:22-32	227989	9.201
DSL:12-14	3576336	0.000
DSL:14-16	3876983	0.000
DSL:16-18	3178380	0.000
DSL:18-20	2001426	0.000
DSL:20-22	719076	0.000
DSL:22-24	178750	0.000

---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baselin e	0.2	0	0

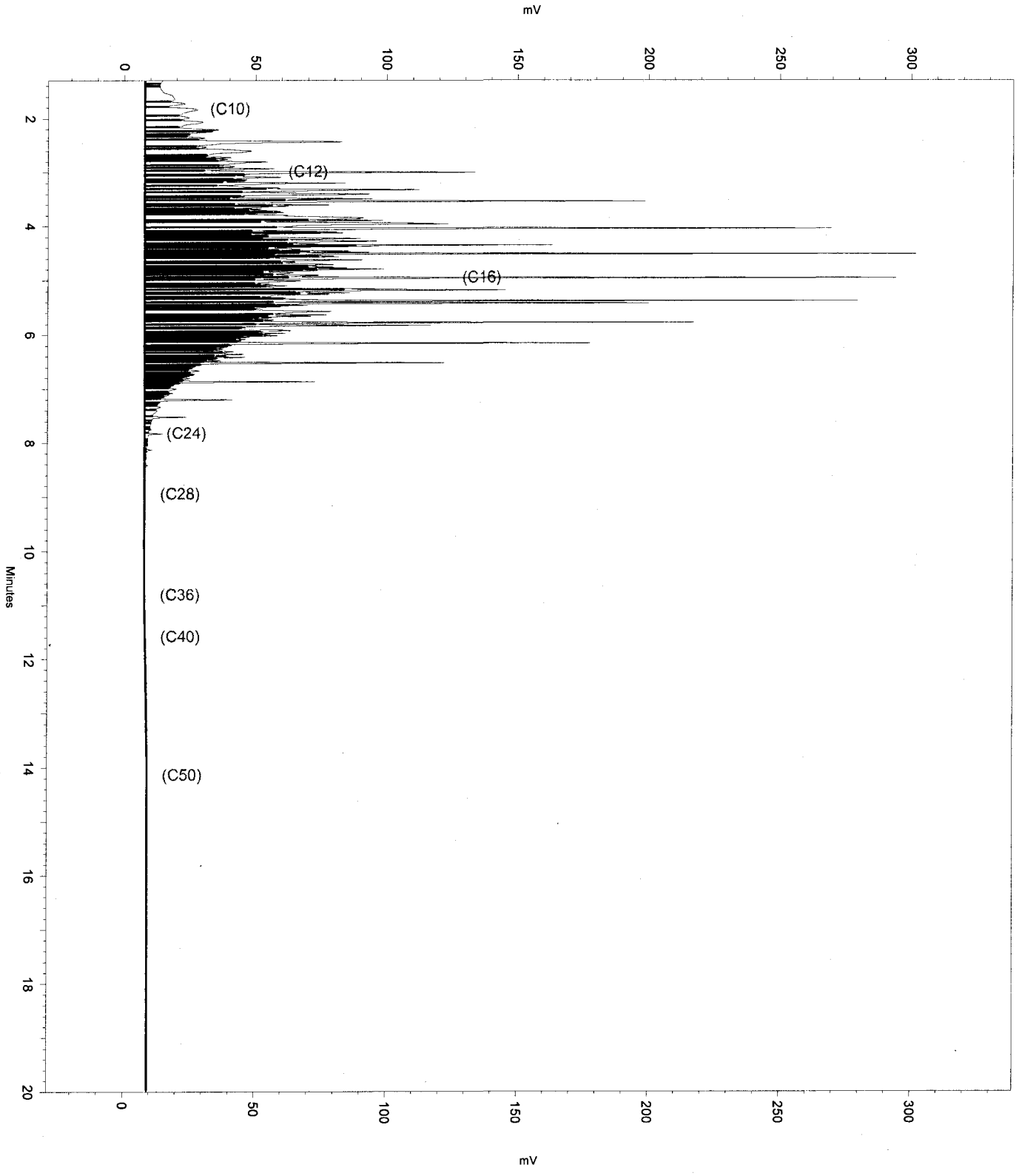
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b024

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	8.755	9.762	0

00171

Sample Name: **icv,s6617,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b024**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290.met
Run Date: 10/18/2007 5:54:44 AM
Analysis Date: 10/20/2007 10:32:07 AM
Instrument: GC15B Vial: 24 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

0175

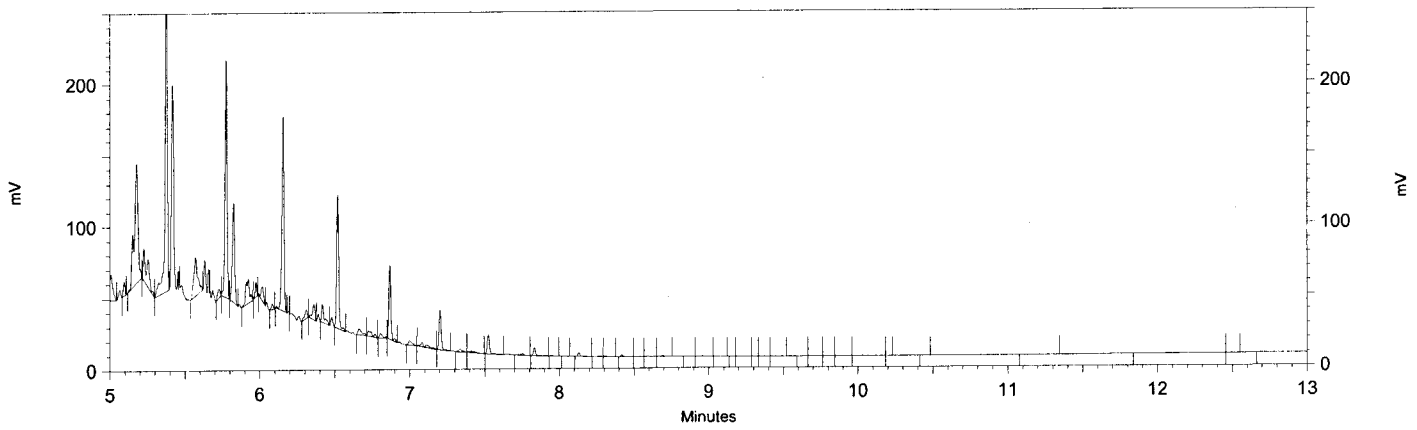
Sample Name: **icv,s6617,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b024**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 5:54:44 AM
Analysis Date: 10/18/2007 6:14:53 AM
Instrument: GC15B Vial: 24 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.417	1307	0.038



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b024_9E72.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167416763002
Units : mg/L

Name : mo 5pt.
Date : 18-OCT-2007 07:18
X Axis : R

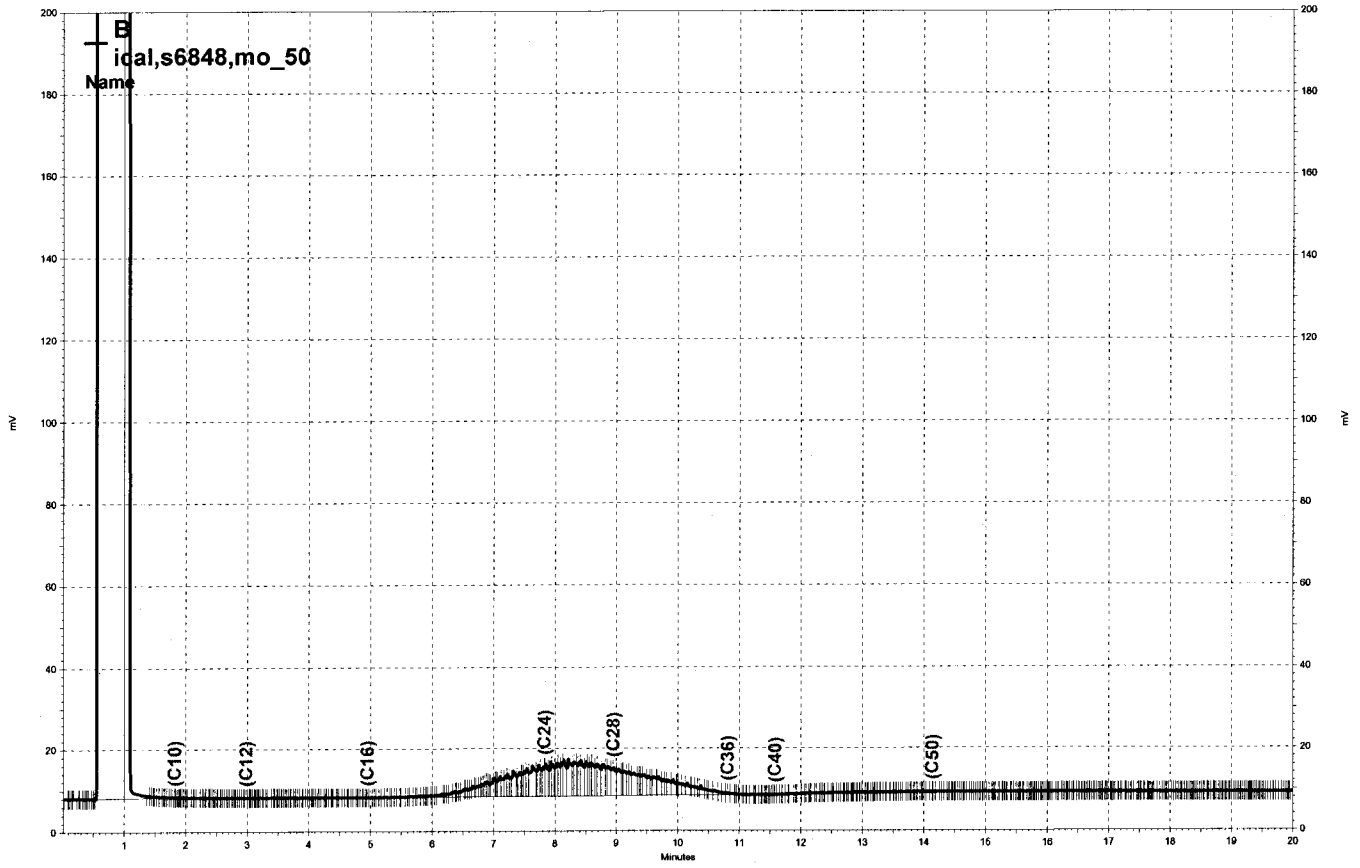
Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	289b027	167416763027	MO_50	18-OCT-2007 07:18	S6848
L2	289b028	167416763028	MO_250	18-OCT-2007 07:46	S6849
L3	289b029	167416763029	MO_500	18-OCT-2007 08:14	S6850
L4	289b030	167416763030	MO_1000	18-OCT-2007 08:42	S6851
L5	289b031	167416763031	MO_5000	18-OCT-2007 09:10	S6846

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	17688	20401	19302	18899	14749	AVRG		5.49E-5		18208	12	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Motor Oil C24-C36	50.00	-3	250.0	12	500.0	6	1000	4	5000	-19

Analyst: ZA Date: 10/22/07 Reviewer: LH Date: 10/22/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b027, B

Sample Name: **ical,s6848,mo_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b027**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 7:18:34 AM
Analysis Date: 10/22/2007 5:16:19 AM
Instrument: GC15B Vial: 27 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	6761	0.000 CAL
JP8:10-16	6761	0.000 CAL
KER:10-16	6761	0.000 CAL
JP5:10-16	6761	0.000 CAL
DSL:10-20	37959	0.000 CAL
DSL:10-22	160397	0.000 CAL
DSL:10-24	373314	0.000 CAL
DSL:12-22	158575	0.000 CAL
DSL:10-28	876940	0.000 CAL
DSL:12-24	371492	0.000 CAL
DSL:12-32	1173650	0.000 CAL
BUNKC:12-40	1260653	0.000 CAL
HYFL:12-40	1260653	0.000 CAL
MO:20-36	1219778	50.000 CAL
MO:22-36	1097340	50.000 CAL
MO:24-36	884423	50.000 CAL
BUNKC:12-50	1272537	0.000 CAL
DSL:10-12	1822	0.000 CAL
DSL:12-16	4939	0.000 CAL
DSL:16-24	366553	0.000 CAL
MO:28-36	380797	50.000 CAL
MO:28-40	385535	50.000 CAL
MO:22-32	1015075	50.000 CAL
DSL:12-14	2837	0.000 CAL
DSL:14-16	2102	0.000 CAL
DSL:16-18	4211	0.000 CAL
DSL:18-20	26987	0.000 CAL
DSL:20-22	122438	0.000 CAL
DSL:22-24	212917	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

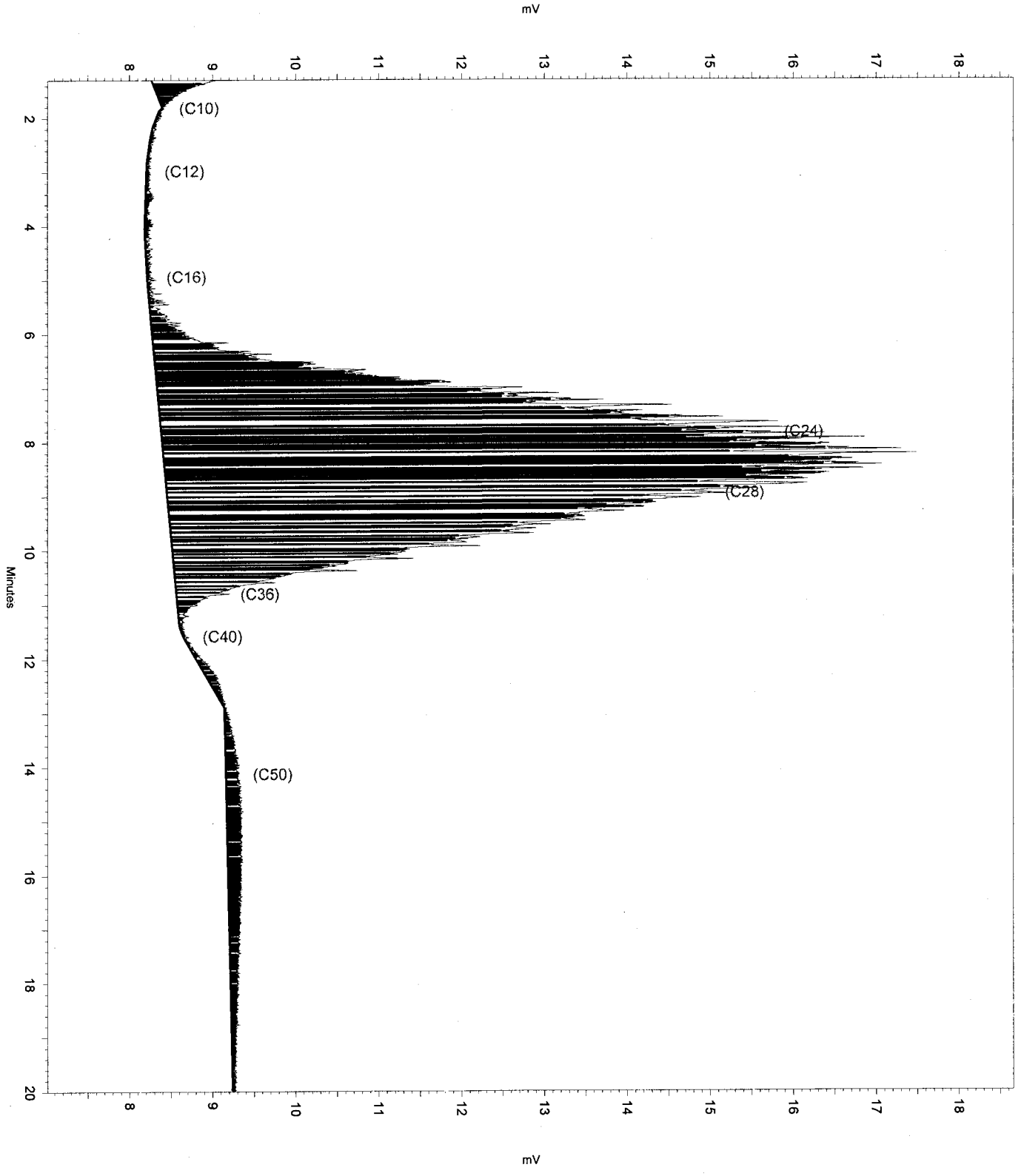
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s6848,mo_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b027**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 7:18:34 AM
Analysis Date: 10/22/2007 5:16:19 AM
Instrument: GC15B Vial: 27 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

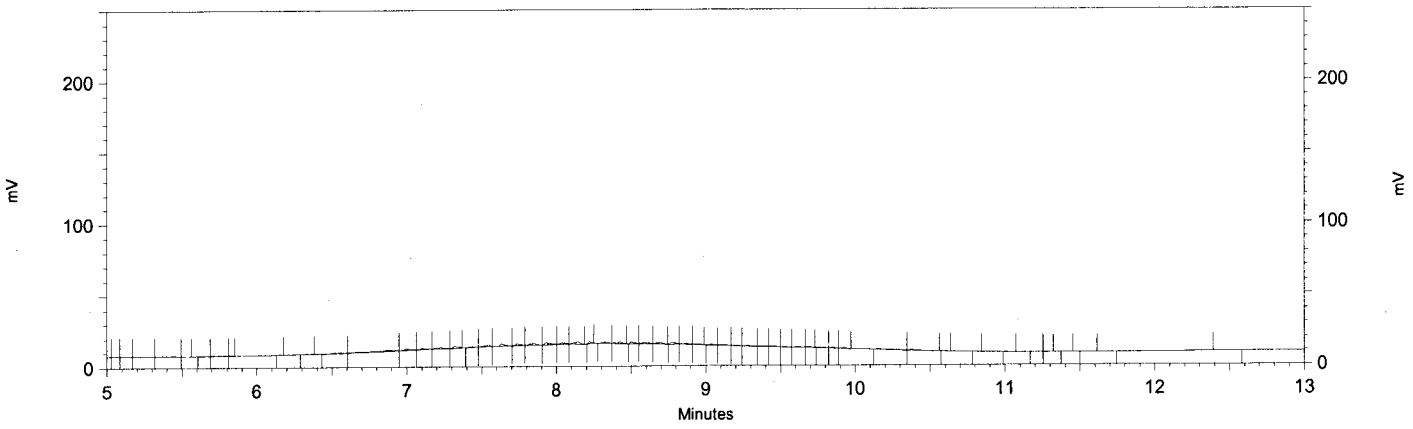
Sample Name: **ical,s6848,mo_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b027**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 7:18:34 AM
Analysis Date: 10/18/2007 7:38:43 AM
Instrument: GC15B Vial: 27 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.425	3813	0.112



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

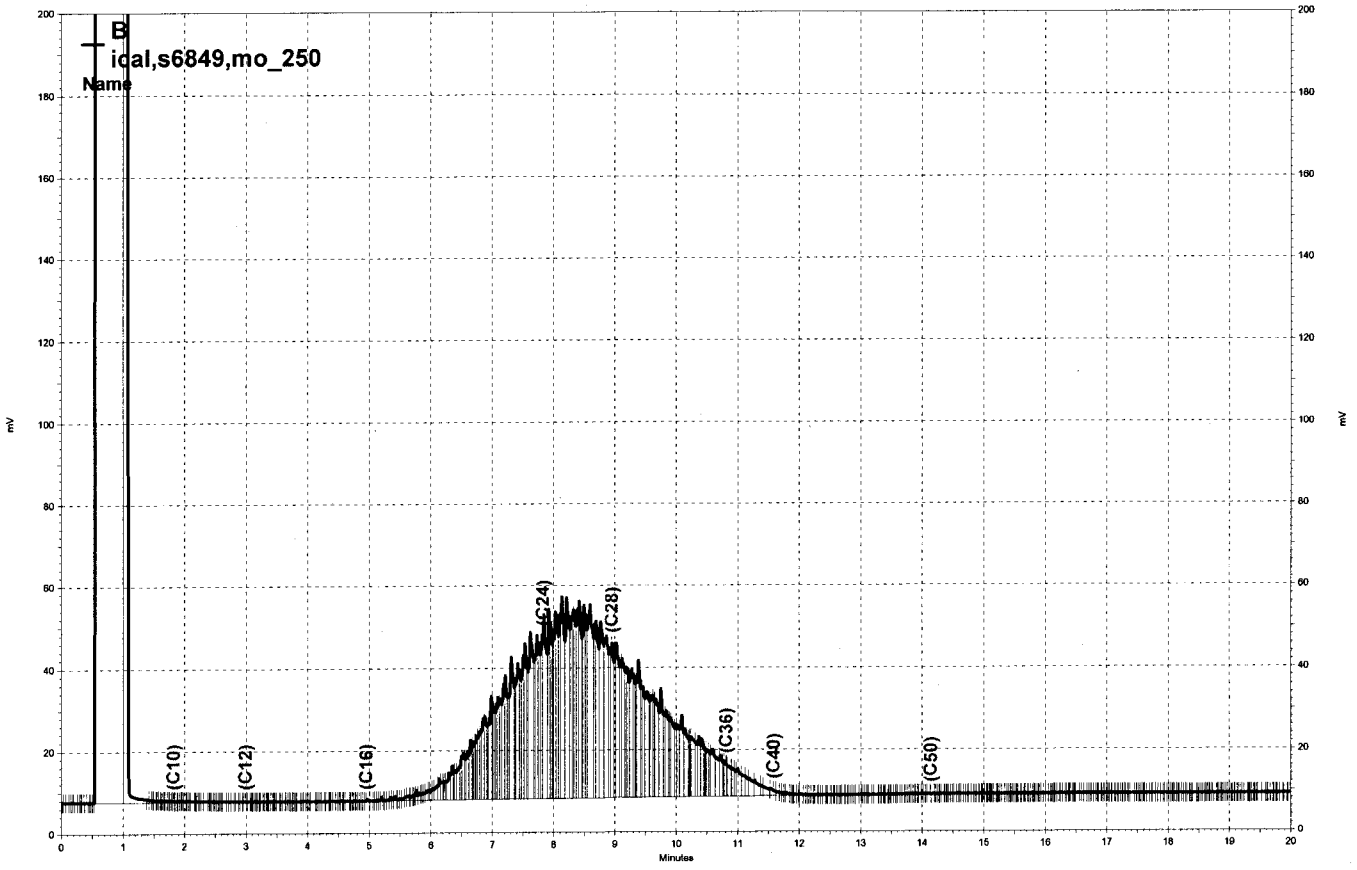
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b027_9E75.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b028, B

Sample Name: **ical,s6849,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b028**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 7:46:30 AM
Analysis Date: 10/22/2007 5:16:33 AM
Instrument: GC15B Vial: 28 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	20011	0.000 CAL
JP8:10-16	20011	0.000 CAL
KER:10-16	20011	0.000 CAL
JP5:10-16	20011	0.000 CAL
DSL:10-20	232327	0.000 CAL
DSL:10-22	971051	0.000 CAL
DSL:10-24	2168223	0.000 CAL
DSL:12-22	957896	0.000 CAL
DSL:10-28	4951419	0.000 CAL
DSL:12-24	2155068	0.000 CAL
DSL:12-32	6608939	0.000 CAL
BUNKC:12-40	7448434	0.000 CAL
HYFL:12-40	7448434	0.000 CAL
MO:20-36	7036155	250.000 CAL
MO:22-36	6297431	250.000 CAL
MO:24-36	5100259	250.000 CAL
BUNKC:12-50	7467066	0.000 CAL
DSL:10-12	13155	0.000 CAL
DSL:12-16	6856	0.000 CAL
DSL:16-24	2148212	0.000 CAL
MO:28-36	2317063	250.000 CAL
MO:28-40	2510170	250.000 CAL
MO:22-32	5651043	250.000 CAL
DSL:12-14	4629	0.000 CAL
DSL:14-16	2227	0.000 CAL
DSL:16-18	21828	0.000 CAL
DSL:18-20	190488	0.000 CAL
DSL:20-22	738724	0.000 CAL
DSL:22-24	1197172	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

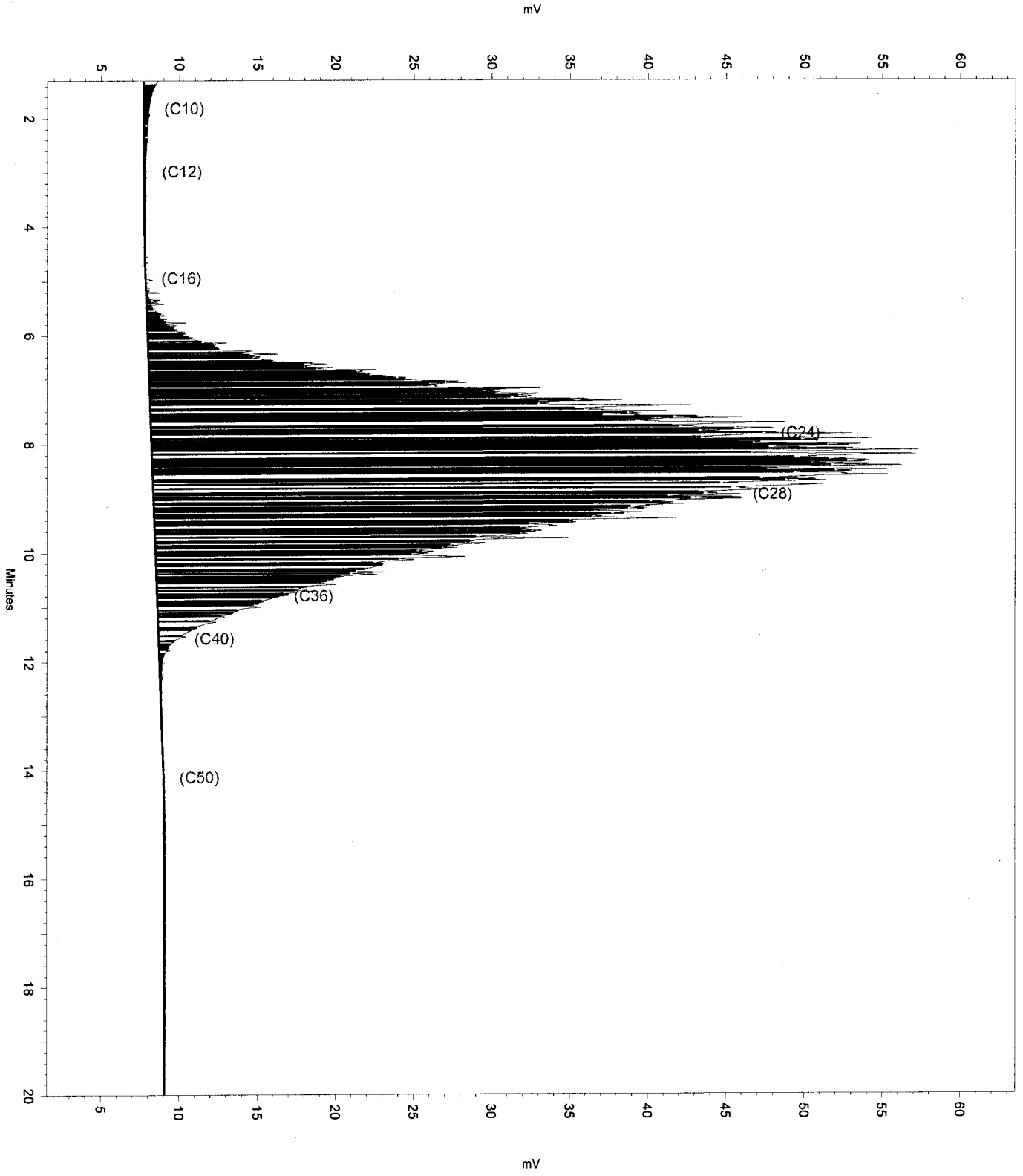
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sample Name: **ical,s6849,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b028**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 7:46:30 AM
Analysis Date: 10/22/2007 5:16:33 AM
Instrument: GC15B Vial: 28 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

: QP1 94

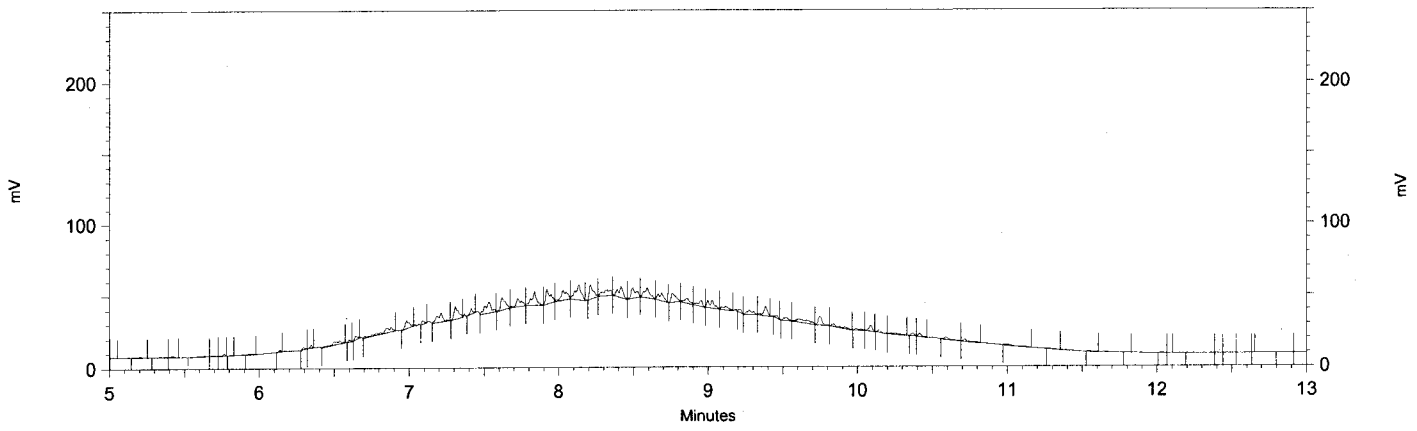
Sample Name: **ical,s6849,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b028**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 7:46:30 AM
Analysis Date: 10/18/2007 8:06:39 AM
Instrument: GC15B Vial: 28 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.415	18433	0.541



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

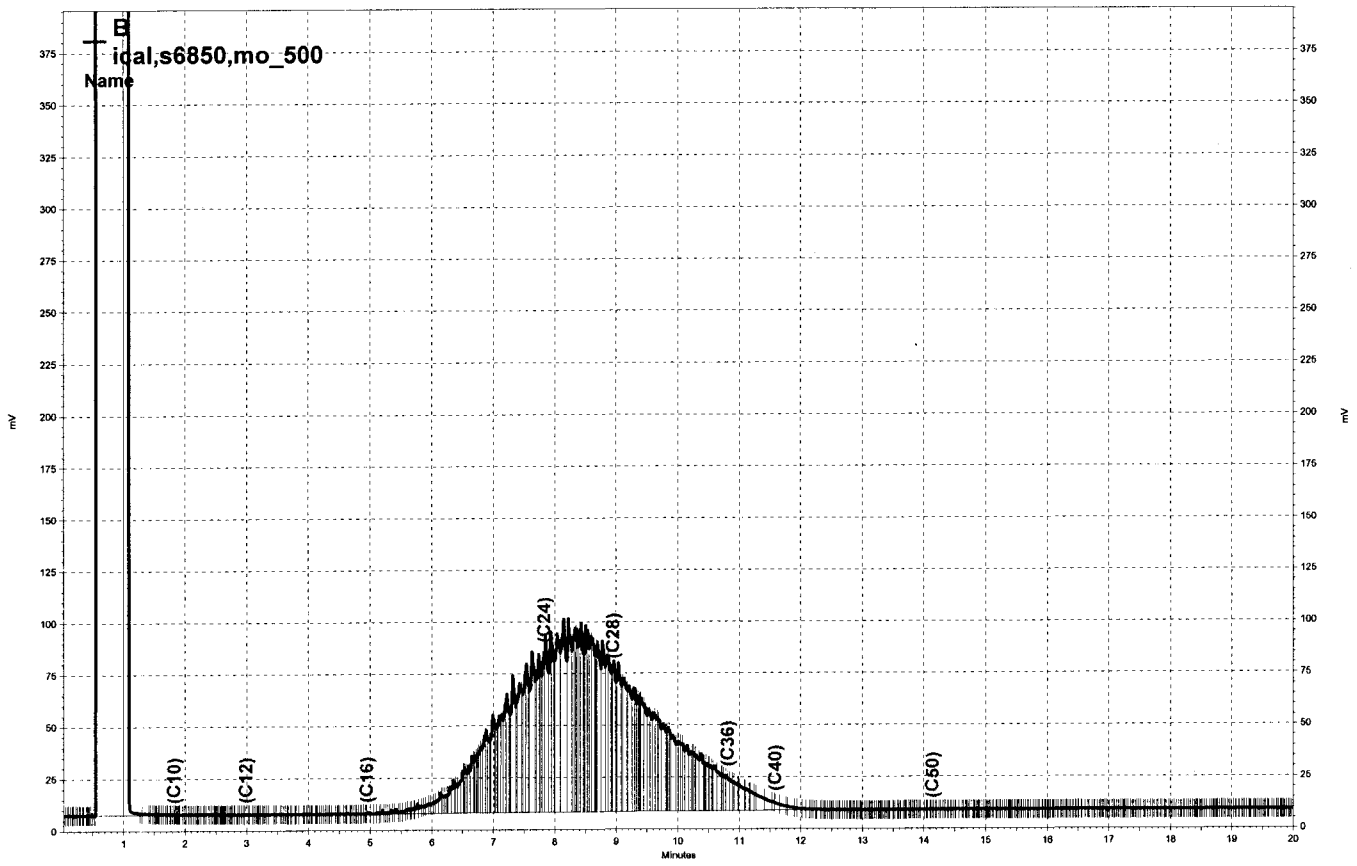
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b028_9E76.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b029, B

Sample Name: **ical,s6850,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b029**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 8:14:38 AM
Analysis Date: 10/22/2007 5:16:44 AM
Instrument: GC15B Vial: 29 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	13460	0.000 CAL
JP8:10-16	13460	0.000 CAL
KER:10-16	13460	0.000 CAL
JP5:10-16	13460	0.000 CAL
DSL:10-20	430934	0.000 CAL
DSL:10-22	1702738	0.000 CAL
DSL:10-24	4167004	0.000 CAL
DSL:12-22	1695241	0.000 CAL
DSL:10-28	9406772	0.000 CAL
DSL:12-24	4159507	0.000 CAL
DSL:12-32	12552376	0.000 CAL
BUNKC:12-40	14215455	0.000 CAL
HYFL:12-40	14215455	0.000 CAL
MO:20-36	13387214	500.000 CAL
MO:22-36	12115410	500.000 CAL
MO:24-36	9651144	500.000 CAL
BUNKC:12-50	14263393	0.000 CAL
DSL:10-12	7497	0.000 CAL
DSL:12-16	5963	0.000 CAL
DSL:16-24	4153544	0.000 CAL
MO:28-36	4411376	500.000 CAL
MO:28-40	4816180	500.000 CAL
MO:22-32	10857135	500.000 CAL
DSL:12-14	2861	0.000 CAL
DSL:14-16	3102	0.000 CAL
DSL:16-18	41304	0.000 CAL
DSL:18-20	376170	0.000 CAL
DSL:20-22	1271804	0.000 CAL
DSL:22-24	2464266	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

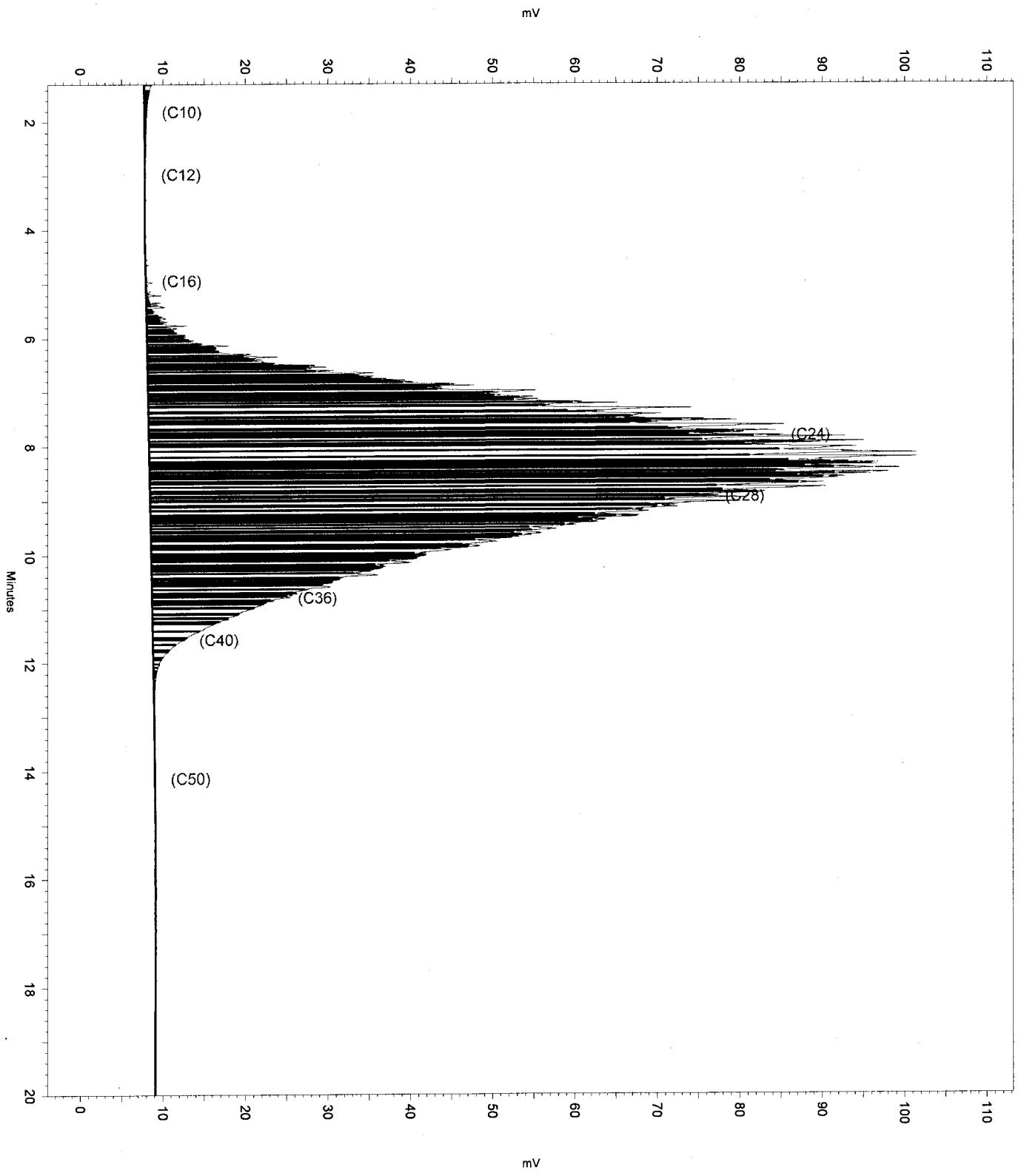
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	12.228	12.943	0

Sample Name: **ical,s6850,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b029**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 8:14:38 AM
Analysis Date: 10/22/2007 5:16:44 AM
Instrument: GC15B Vial: 29 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

: 00168

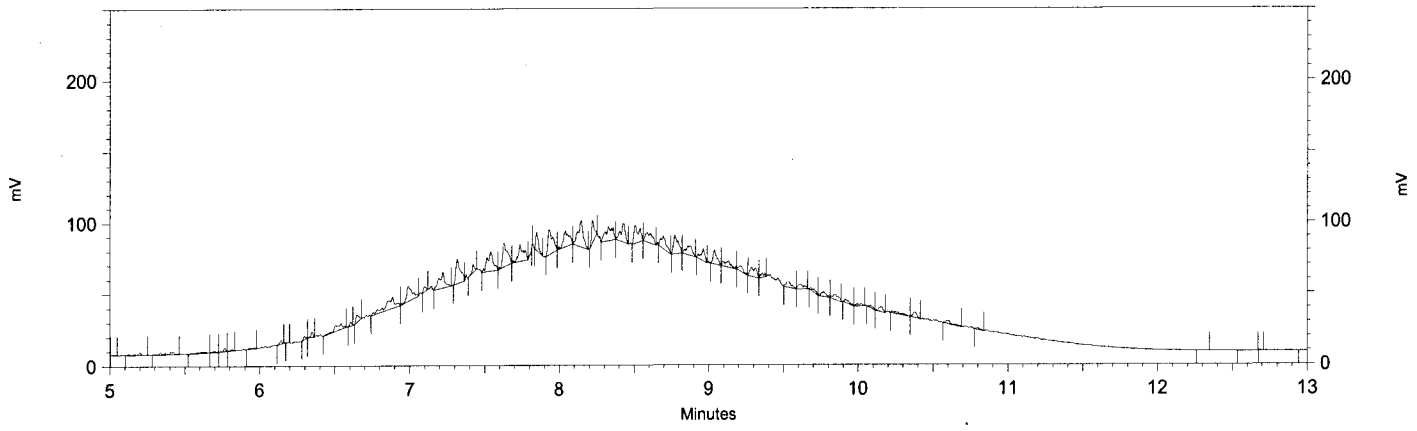
Sample Name: **ical,s6850,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b029**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 8:14:38 AM
Analysis Date: 10/18/2007 8:34:47 AM
Instrument: GC15B Vial: 29 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.428	29150	0.855



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

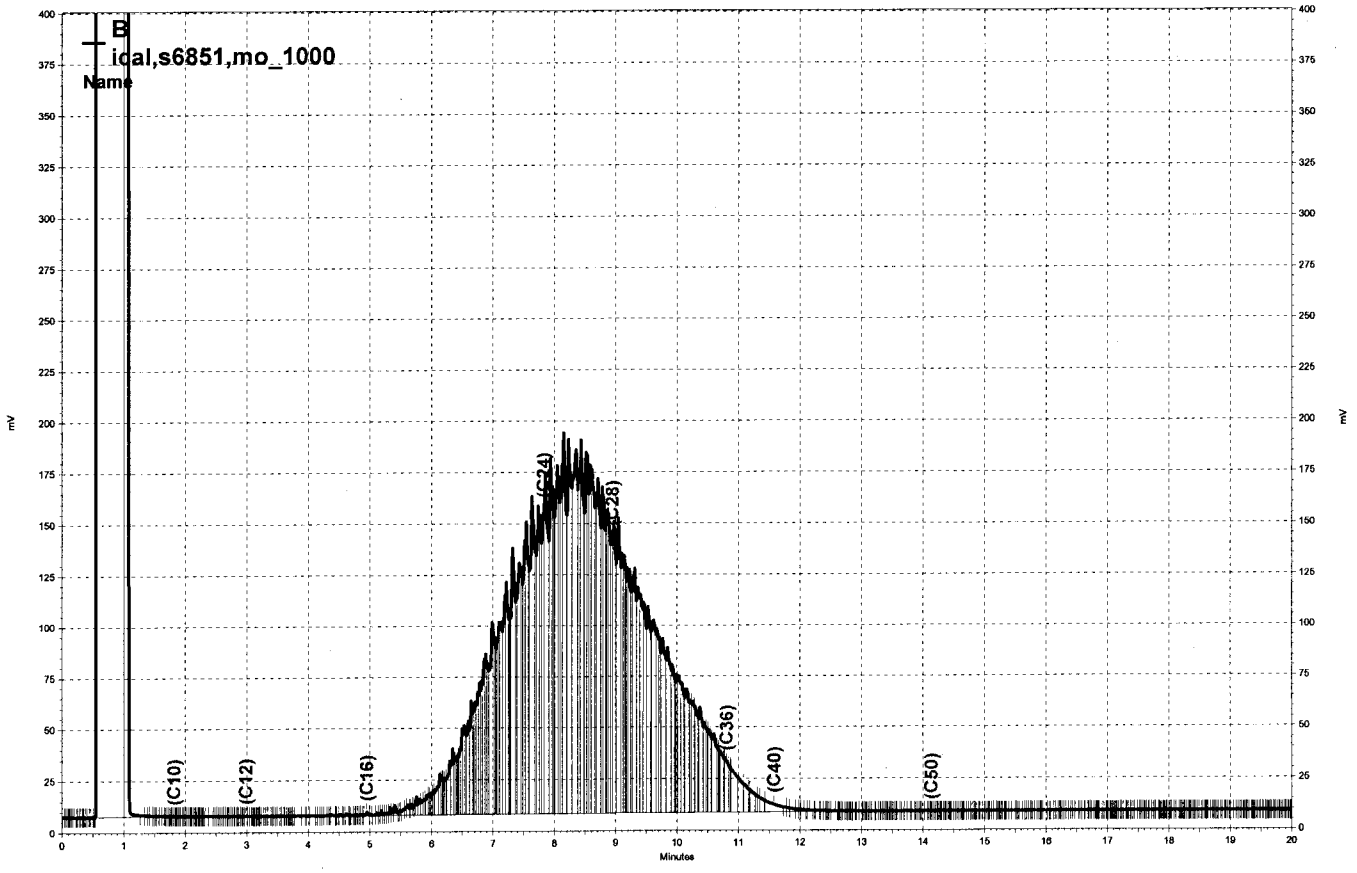
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b029_9E77.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b030, B

Sample Name: **ical,s6851,mo_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b030**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 8:42:49 AM
Analysis Date: 10/22/2007 5:16:56 AM
Instrument: GC15B Vial: 30 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	14169	0.000 CAL
JP8:10-16	14169	0.000 CAL
KER:10-16	14169	0.000 CAL
JP5:10-16	14169	0.000 CAL
DSL:10-20	826476	0.000 CAL
DSL:10-22	3387491	0.000 CAL
DSL:10-24	7964096	0.000 CAL
DSL:12-22	3383838	0.000 CAL
DSL:10-28	18470380	0.000 CAL
DSL:12-24	7960443	0.000 CAL
DSL:12-32	24558760	0.000 CAL
BUNKC:12-40	27159084	0.000 CAL
HYFL:12-40	27159084	0.000 CAL
MO:20-36	26036976	1000.000 CAL
MO:22-36	23475964	1000.000 CAL
MO:24-36	18899360	1000.000 CAL
BUNKC:12-50	27204508	0.000 CAL
DSL:10-12	3653	0.000 CAL
DSL:12-16	10516	0.000 CAL
DSL:16-24	7949927	0.000 CAL
MO:28-36	8393077	1000.000 CAL
MO:28-40	8692360	1000.000 CAL
MO:22-32	21174924	1000.000 CAL
DSL:12-14	3620	0.000 CAL
DSL:14-16	6896	0.000 CAL
DSL:16-18	106061	0.000 CAL
DSL:18-20	706246	0.000 CAL
DSL:20-22	2561015	0.000 CAL
DSL:22-24	4576605	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

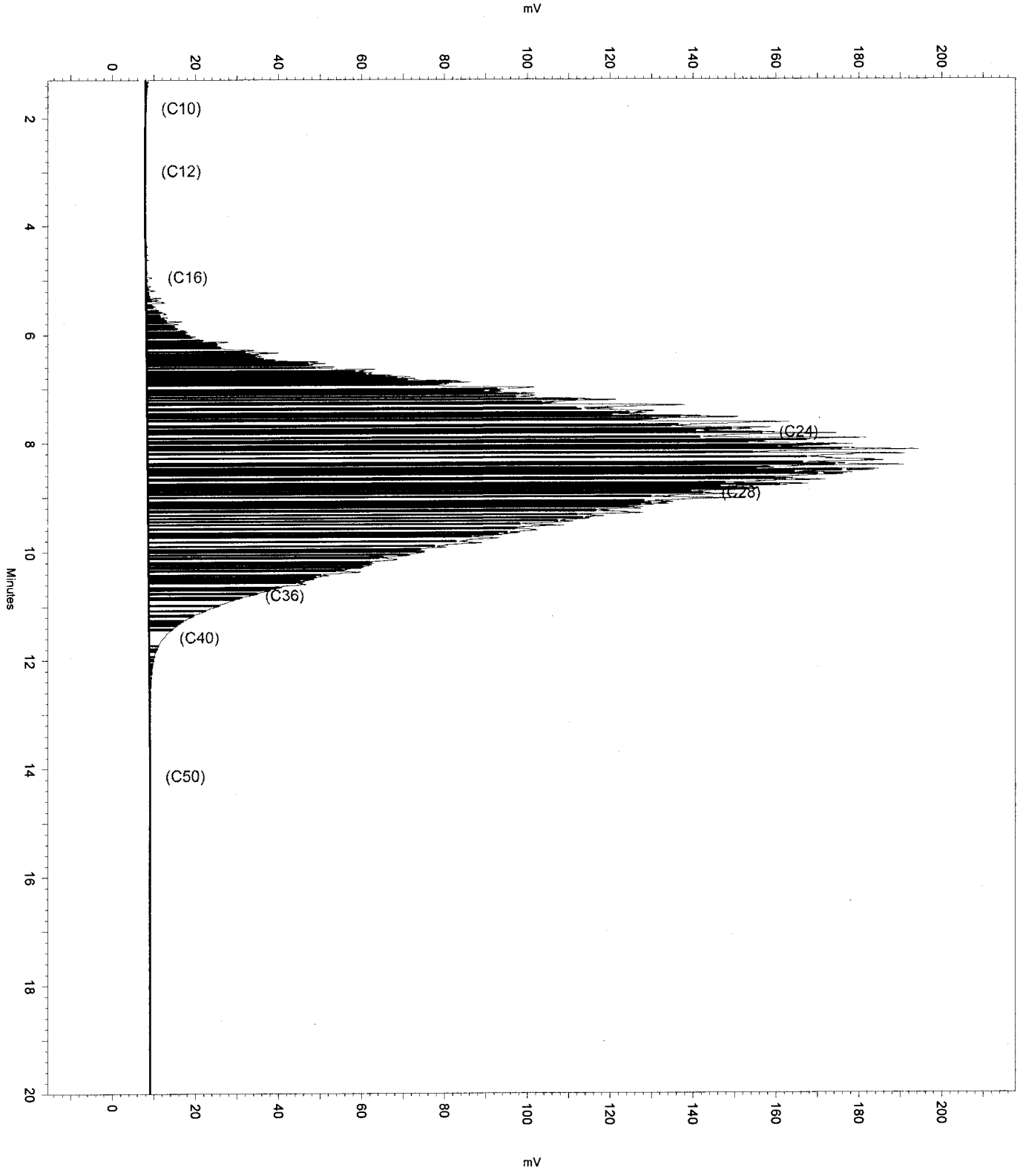
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.033	13.429	0
Yes	Reset Baseline at Valley	15.065	0	0

Sample Name: **ical,s6851,mo_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b030**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 8:42:49 AM
Analysis Date: 10/22/2007 5:16:56 AM
Instrument: GC15B Vial: 30 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

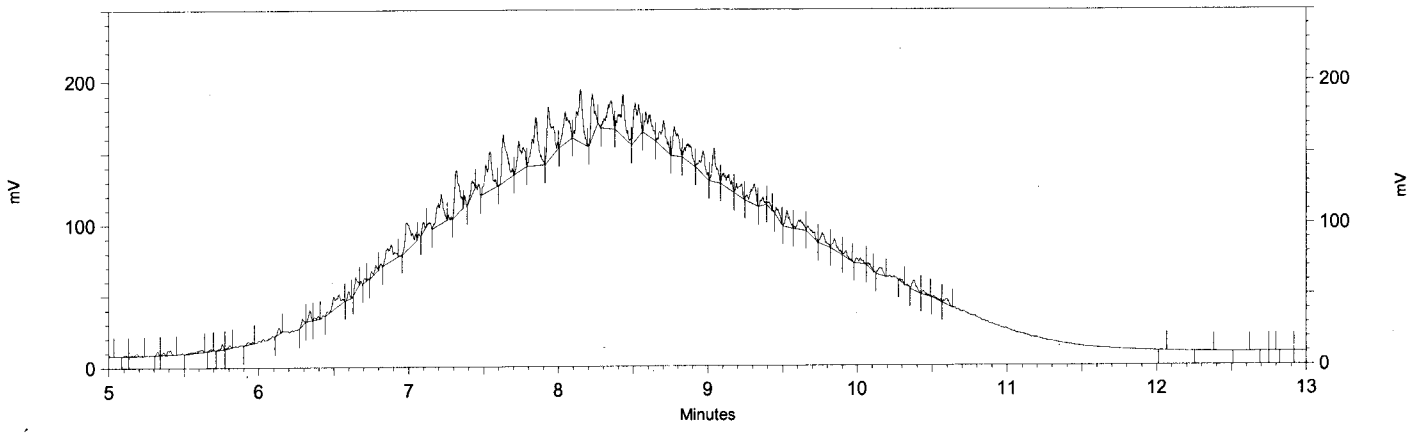
Sample Name: **ical,s6851,mo_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b030**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 8:42:49 AM
Analysis Date: 10/18/2007 9:02:58 AM
Instrument: GC15B Vial: 30 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.433	70172	2.058



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

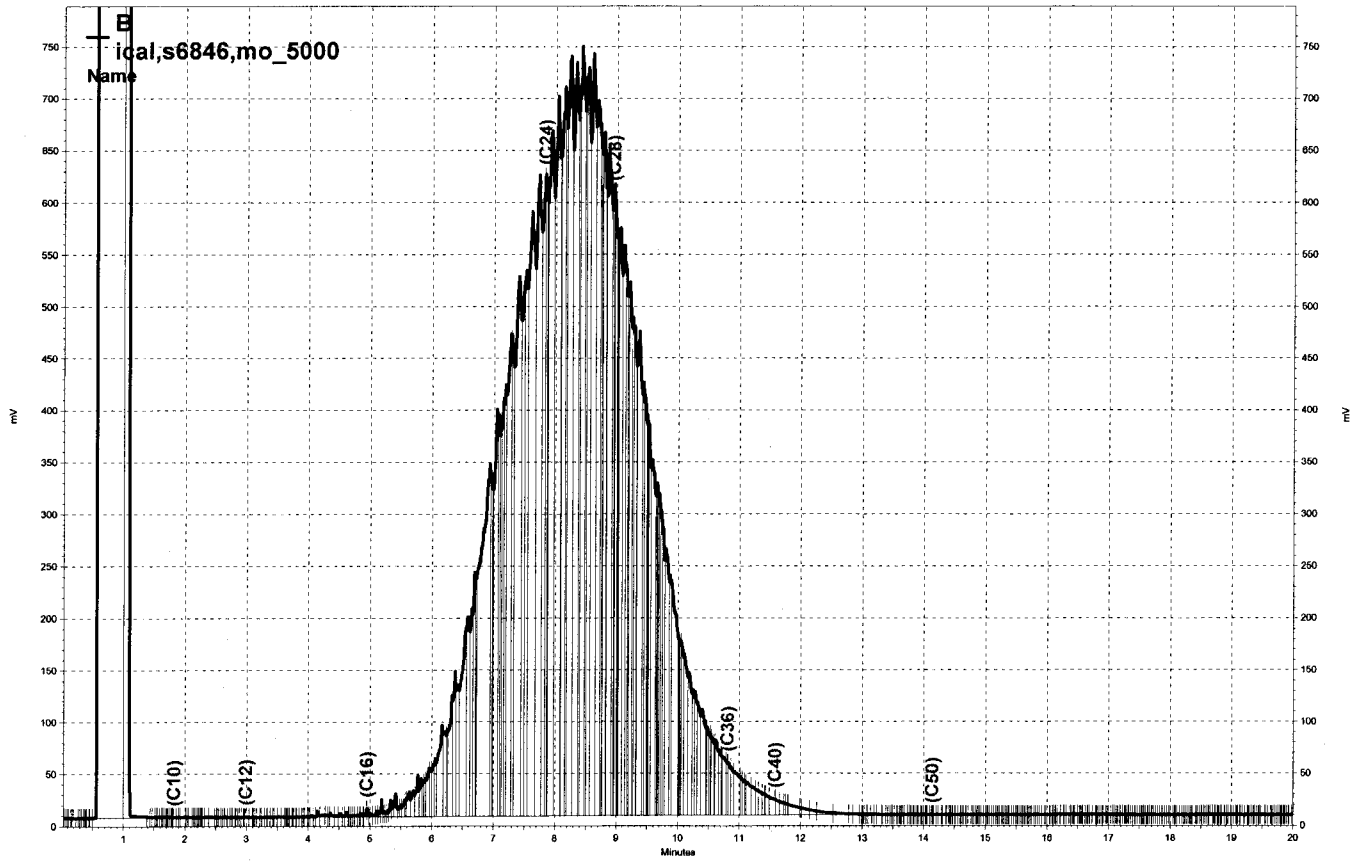
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b030_9E78.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b031, B

Sample Name: **ical,s6846,mo_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b031**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 9:10:45 AM
Analysis Date: 10/22/2007 5:17:08 AM
Instrument: GC15B Vial: 31 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	106237	0.000 CAL
JP8:10-16	106237	0.000 CAL
KER:10-16	106237	0.000 CAL
JP5:10-16	106237	0.000 CAL
DSL:10-20	3401738	0.000 CAL
DSL:10-22	15710161	0.000 CAL
DSL:10-24	35144600	0.000 CAL
DSL:12-22	15698851	0.000 CAL
DSL:10-28	79590896	0.000 CAL
DSL:12-24	35133292	0.000 CAL
DSL:12-32	103977704	0.000 CAL
BUNKC:12-40	110214448	0.000 CAL
HYFL:12-40	110214448	0.000 CAL
MO:20-36	105487256	5000.000 CAL
MO:22-36	93178824	5000.000 CAL
MO:24-36	73744376	5000.000 CAL
BUNKC:12-50	110654504	0.000 CAL
DSL:10-12	11310	0.000 CAL
DSL:12-16	94927	0.000 CAL
DSL:16-24	35038364	0.000 CAL
MO:28-36	29298078	5000.000 CAL
MO:28-40	30634864	5000.000 CAL
MO:22-32	88278856	5000.000 CAL
DSL:12-14	10811	0.000 CAL
DSL:14-16	84116	0.000 CAL
DSL:16-18	445822	0.000 CAL
DSL:18-20	2849679	0.000 CAL
DSL:20-22	12308423	0.000 CAL
DSL:22-24	19434440	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	0.2	0	0

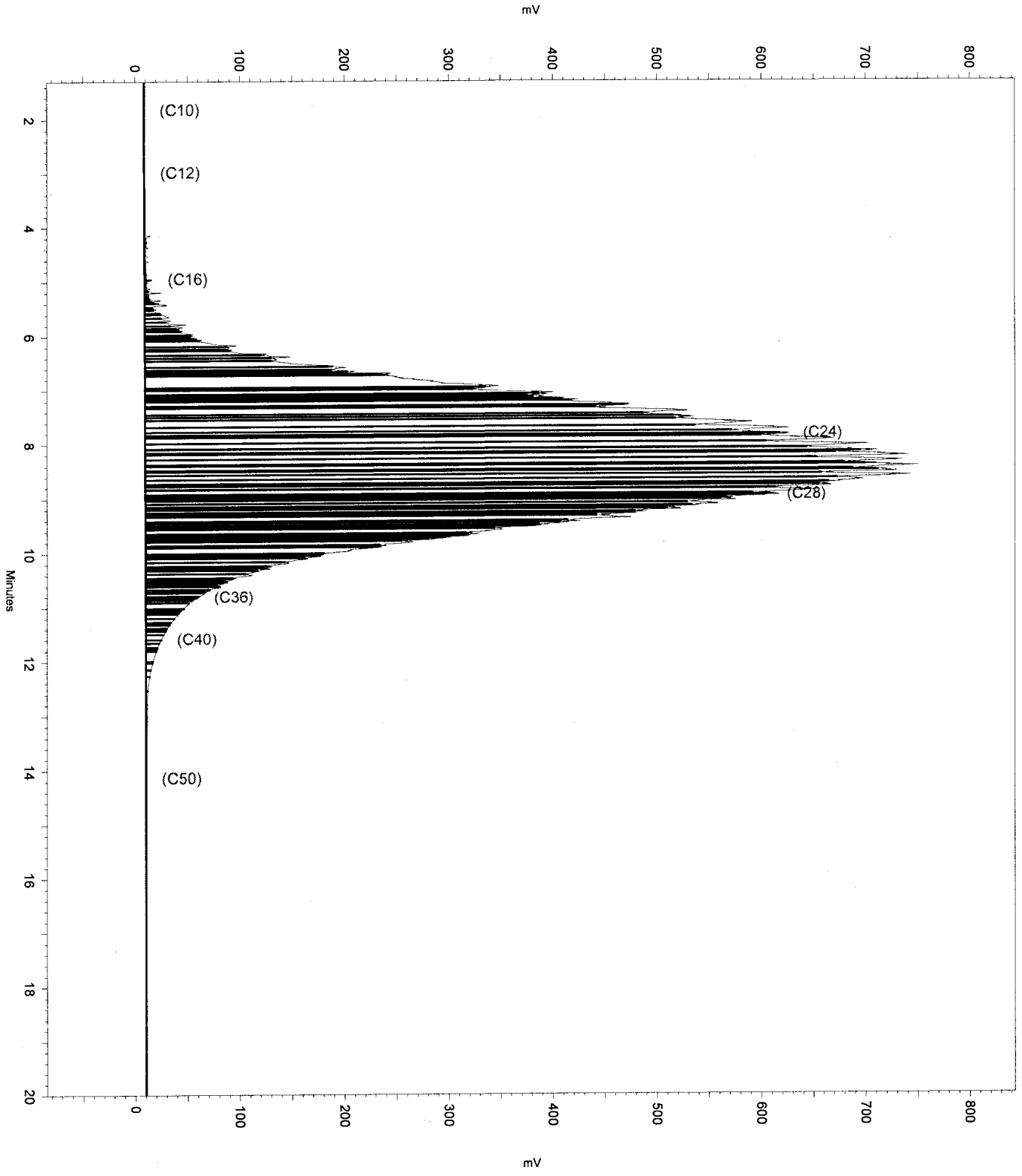
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	13.088	14.443	0
Yes	Move BL Stop	14.443	14.442	0

00195

Sample Name: **ical,s6846,mo_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b031**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh290a.met
Run Date: 10/18/2007 9:10:45 AM
Analysis Date: 10/22/2007 5:17:08 AM
Instrument: GC15B Vial: 31 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

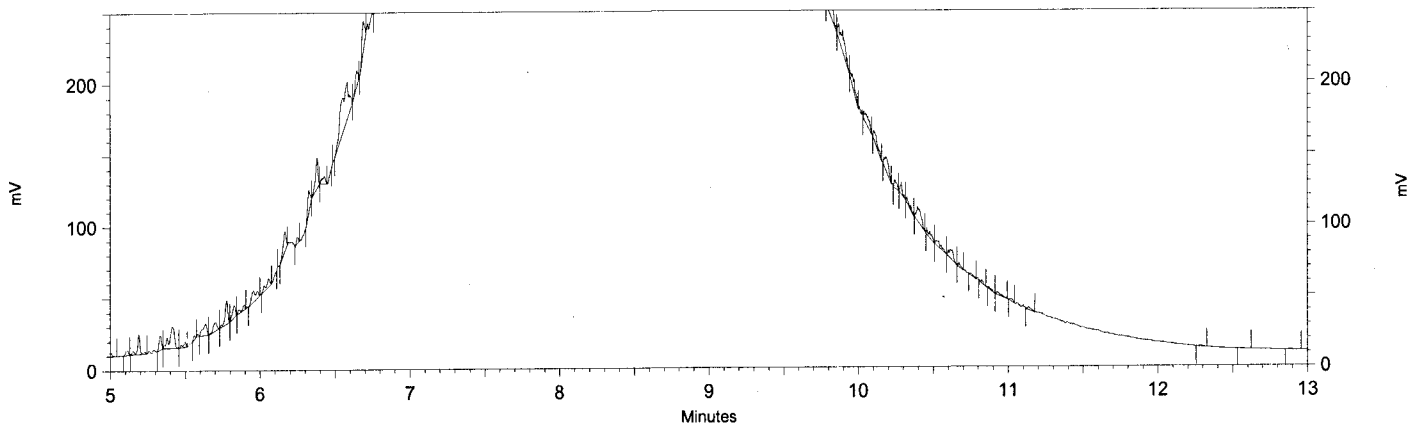
Sample Name: **ical,s6846,mo_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\289b031**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\289.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur290.met
Run Date: 10/18/2007 9:10:45 AM
Analysis Date: 10/18/2007 9:30:55 AM
Instrument: GC15B Vial: 31 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.420	184595	5.415



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10041\289b031_9E79.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC15B
Calnum : 167479943001
Units : mg/L

Name : Hexacosane
Date : 30-NOV-2007 05:07
X Axis : R

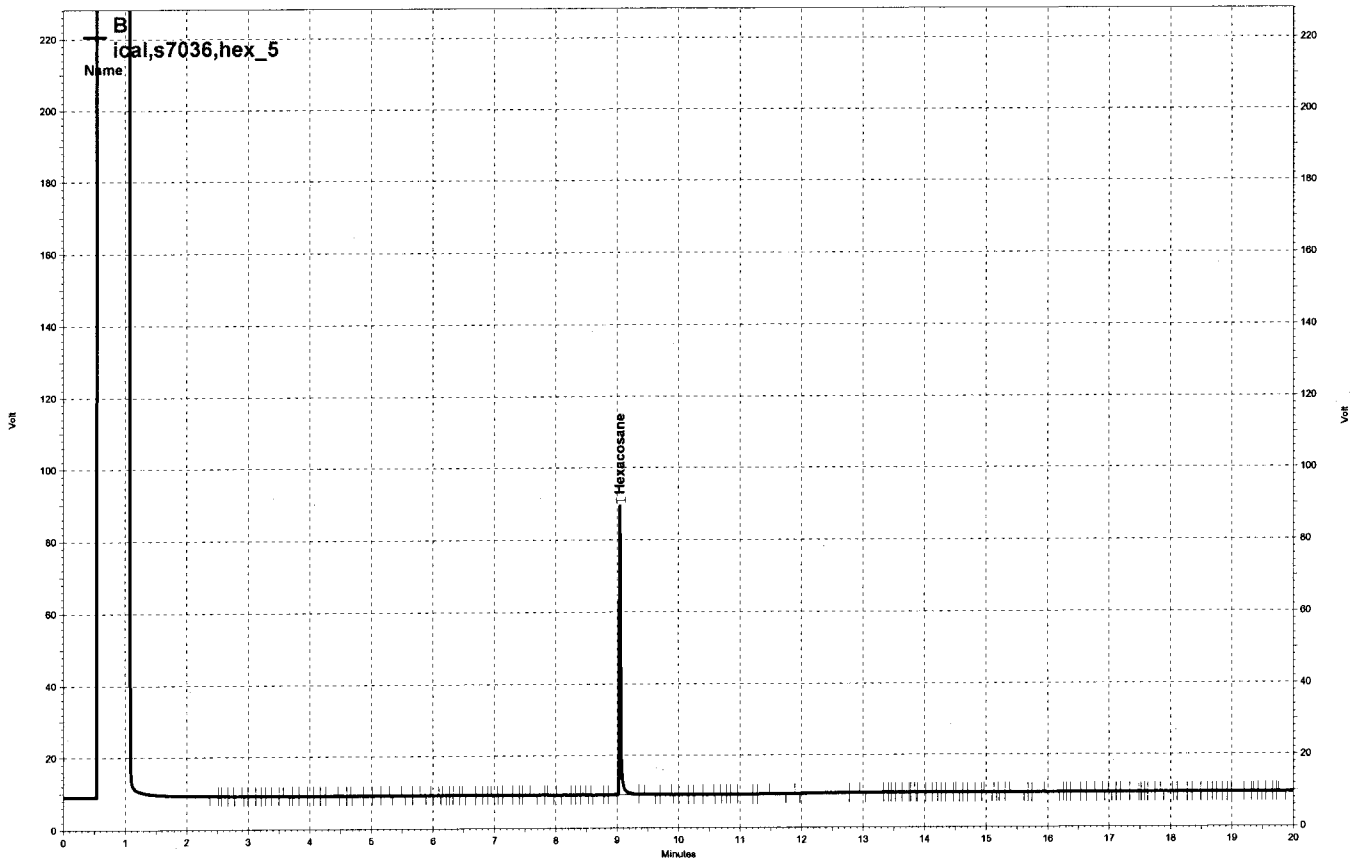
Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	333b012	167479943012	HEX_5	30-NOV-2007 05:07	S7036
L2	333b013	167479943013	HEX_10	30-NOV-2007 05:35	S7037
L3	333b014	167479943014	HEX_25	30-NOV-2007 06:03	S7038
L4	333b015	167479943015	HEX_50	30-NOV-2007 06:30	S7039
L5	333b016	167479943016	HEX_100	30-NOV-2007 06:58	S7040
L6	333b017	167479943017	HEX_200	30-NOV-2007 07:26	S7041

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	25619	27078	26344	27012	26744	25833	AVRG		3.78E-5		26439	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-3	10.00	2	25.00	0	50.00	2	100.0	1	200.0	-2

Analyst: ATL Date: 11/30/07 Reviewer: LH Date: 11/30/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b012, B

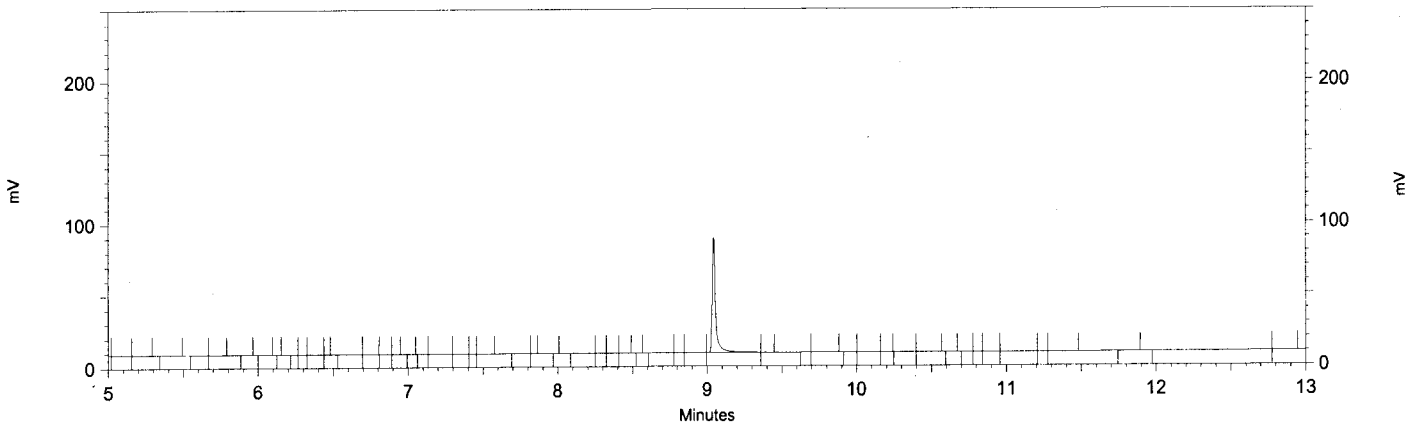
Sample Name: **ical,s7036,hex_5**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur331.met
Run Date: 11/30/2007 5:07:30 AM
Analysis Date: 11/30/2007 5:27:39 AM
Instrument: GC15B Vial: 12 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.043	128096	6.028



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\333b012_6E8F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

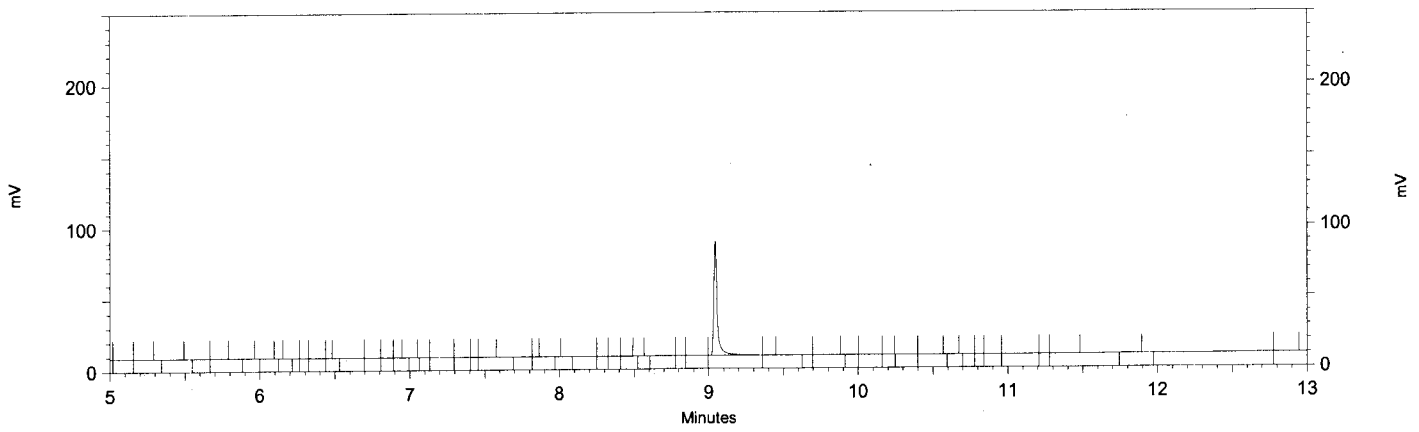
Sample Name: **ical,s7036,hex_5**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur333.met
Run Date: 11/30/2007 5:07:30 AM
Analysis Date: 11/30/2007 7:51:45 AM
Instrument: GC15B Vial: 12 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.043	128096	5.000 CAL



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

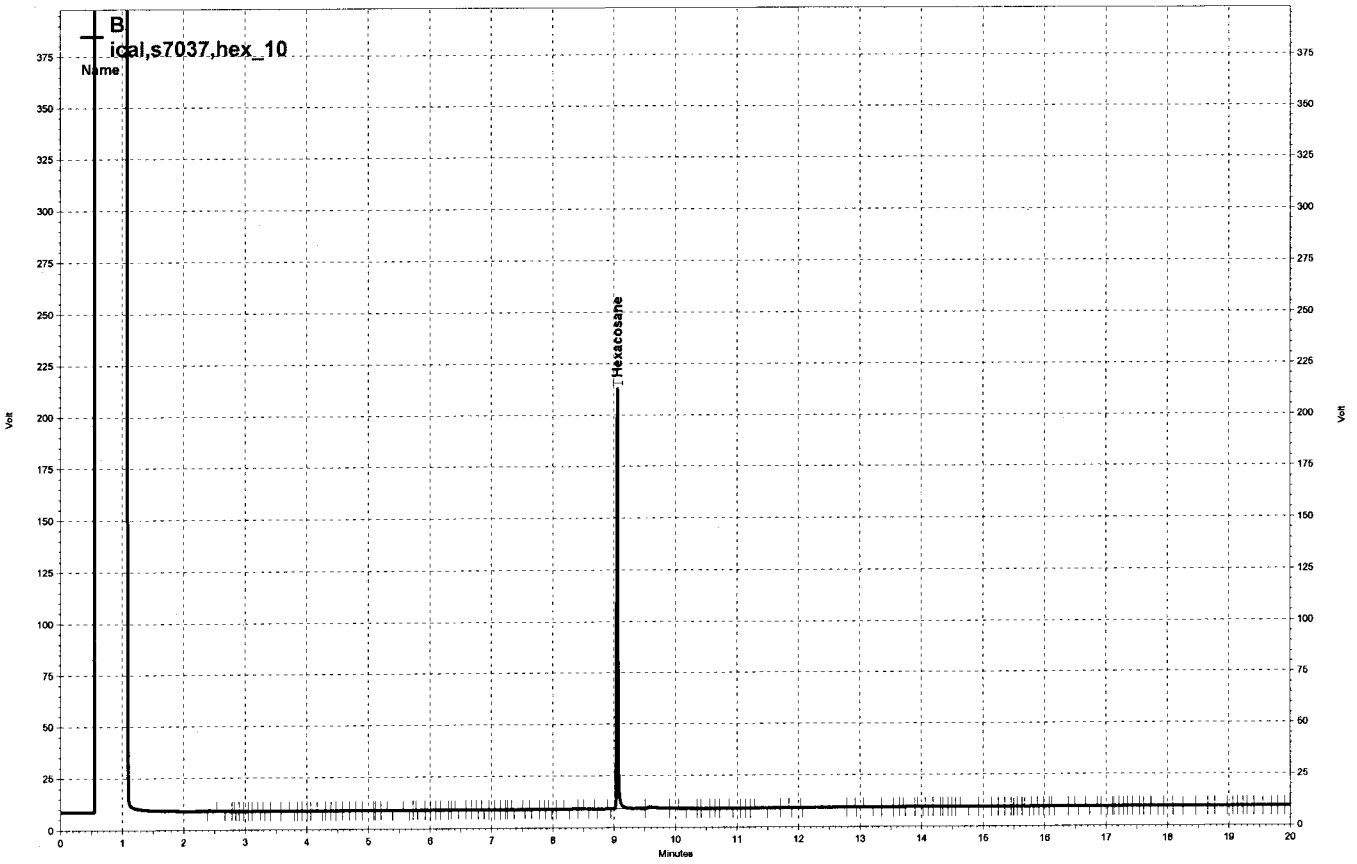
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b013, B

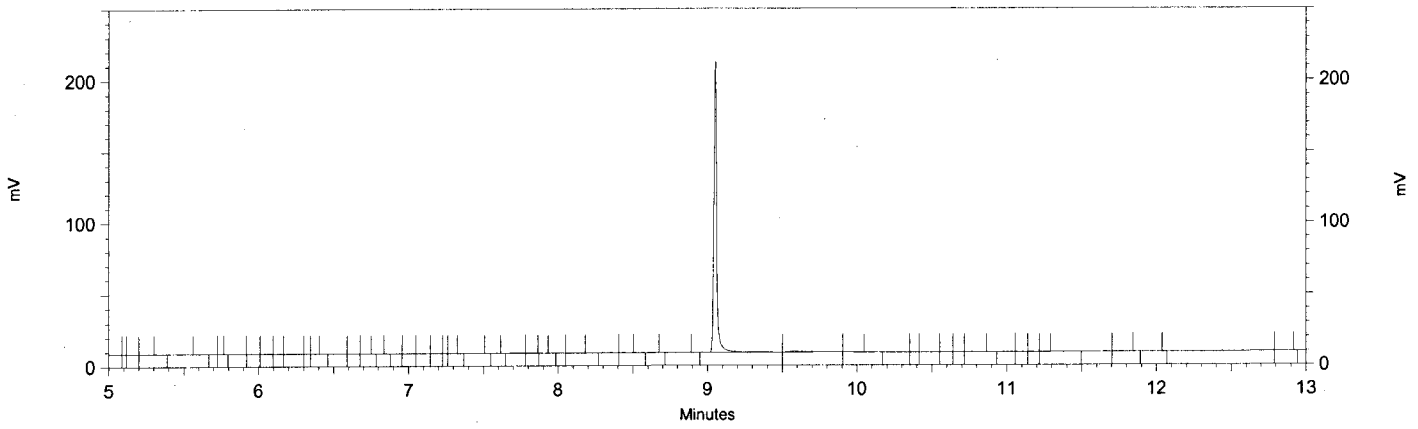
Sample Name: **ical,s7037,hex_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b013**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur333.met
Run Date: 11/30/2007 5:35:16 AM
Analysis Date: 11/30/2007 7:53:44 AM
Instrument: GC15B Vial: 13 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.053	270783	10.262



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

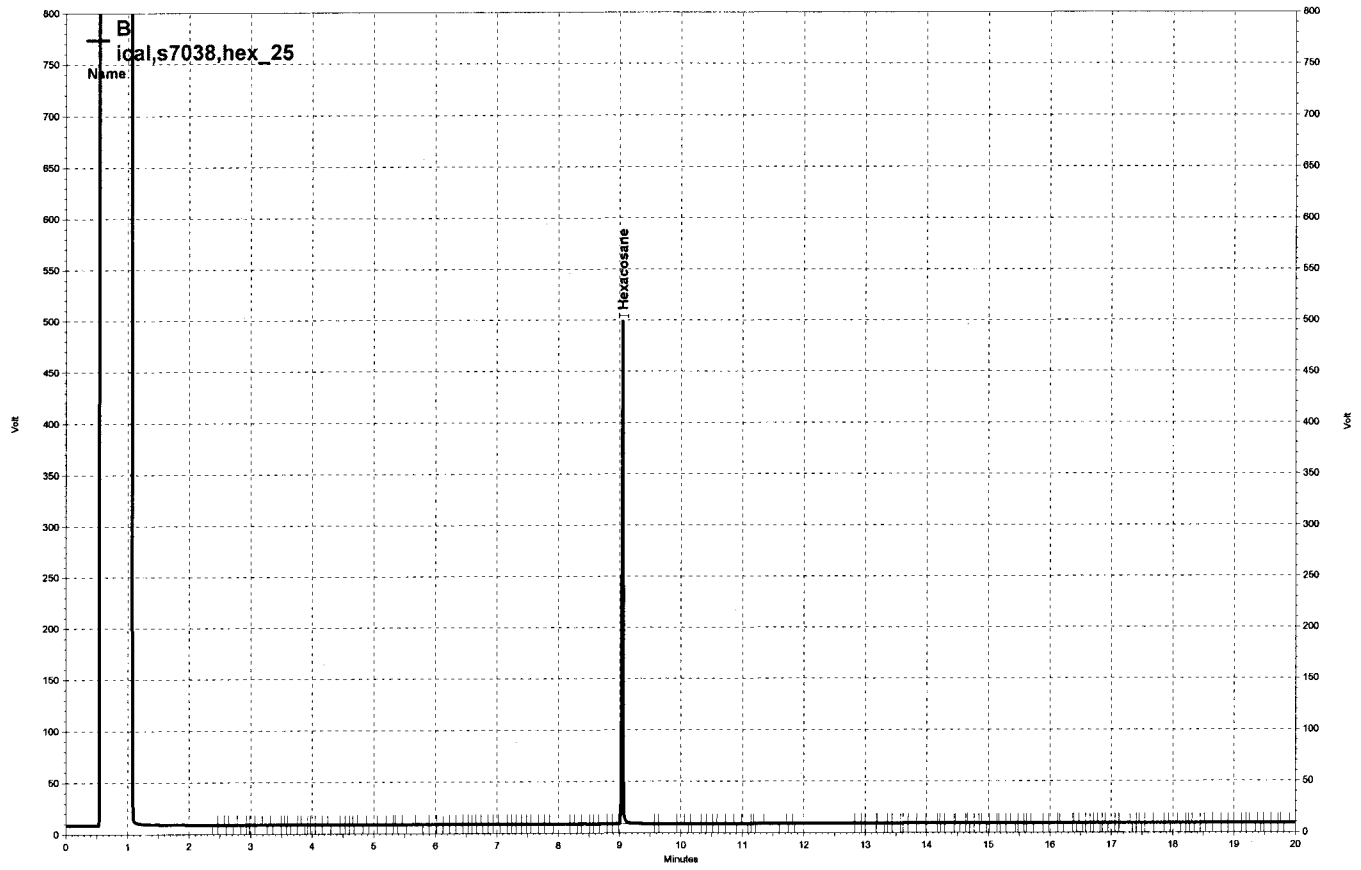
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.949	9.502	0



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b014, B

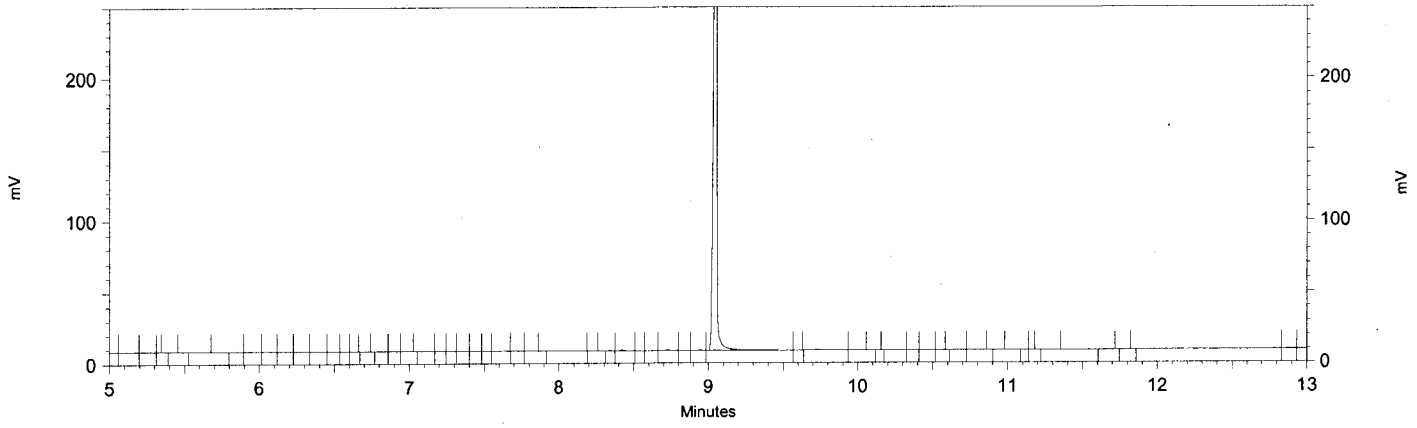
Sample Name: **ical,s7038,hex_25**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur331.met
Run Date: 11/30/2007 6:03:04 AM
Analysis Date: 11/30/2007 6:23:13 AM
Instrument: GC15B Vial: 14 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.052	658612	30.993



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\333b014_6E91.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

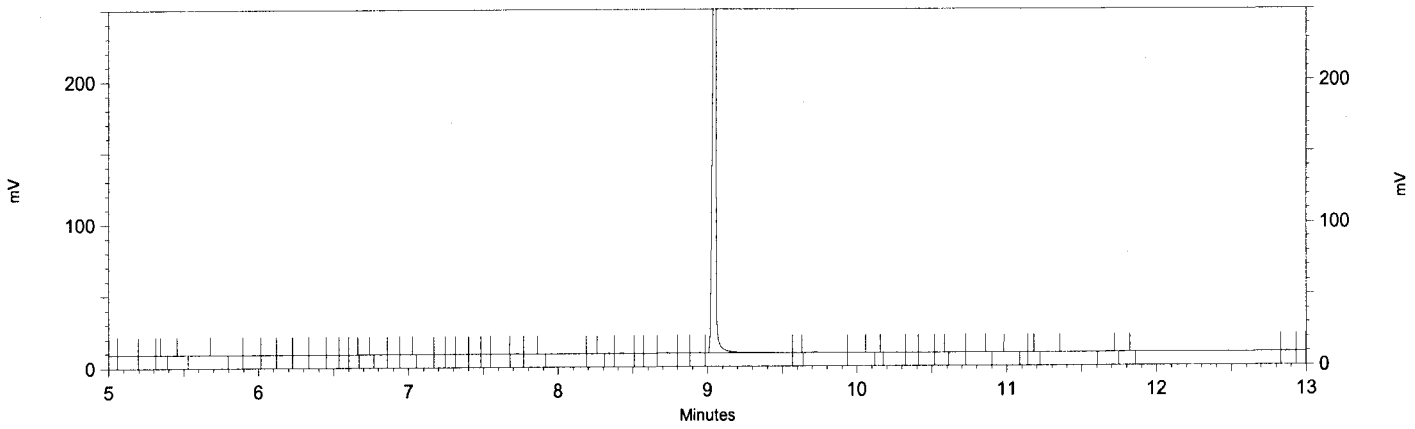
Sample Name: **ical,s7038,hex_25**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur333.met
Run Date: 11/30/2007 6:03:04 AM
Analysis Date: 11/30/2007 7:53:53 AM
Instrument: GC15B Vial: 14 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.052	658612	25.000 CAL



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

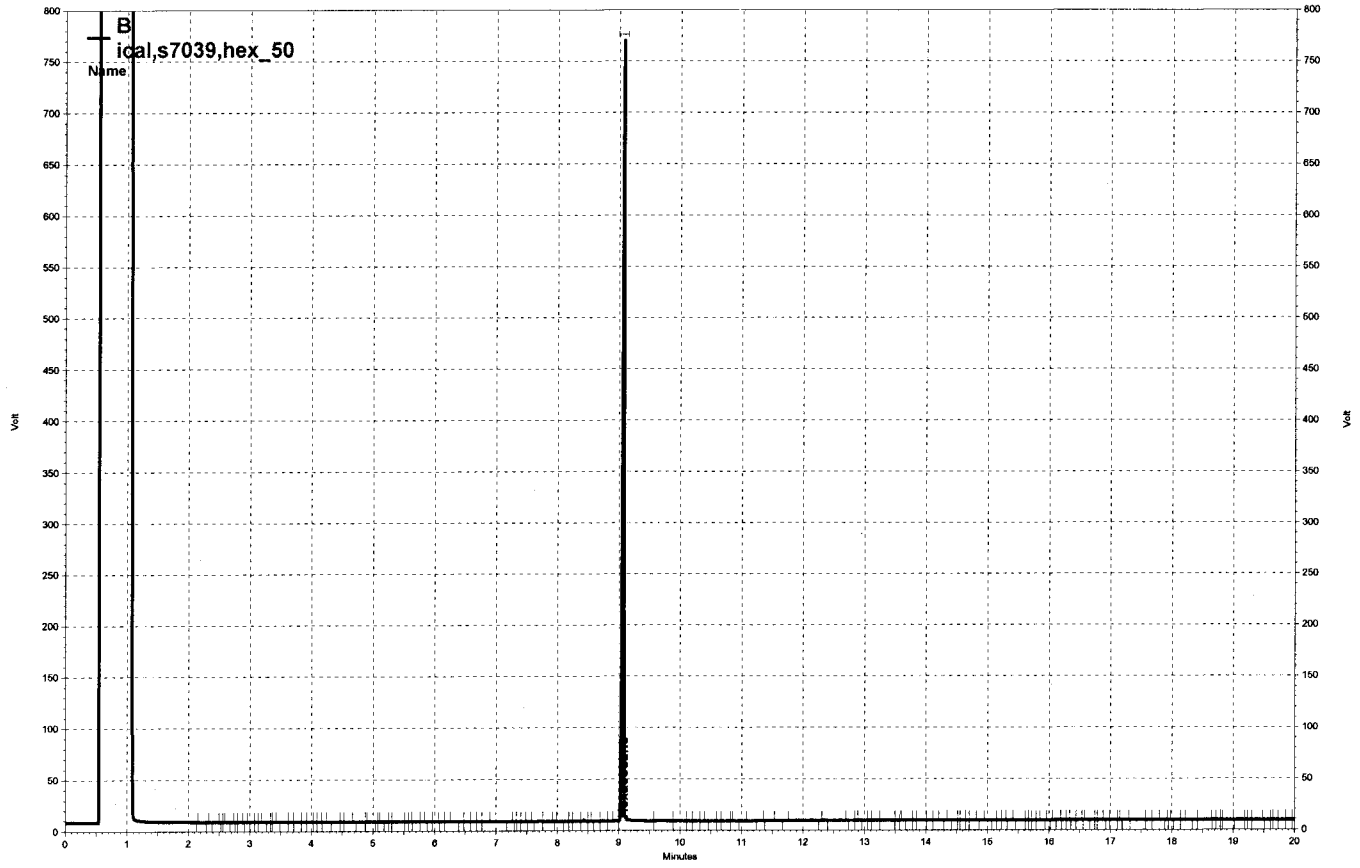
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b015, B

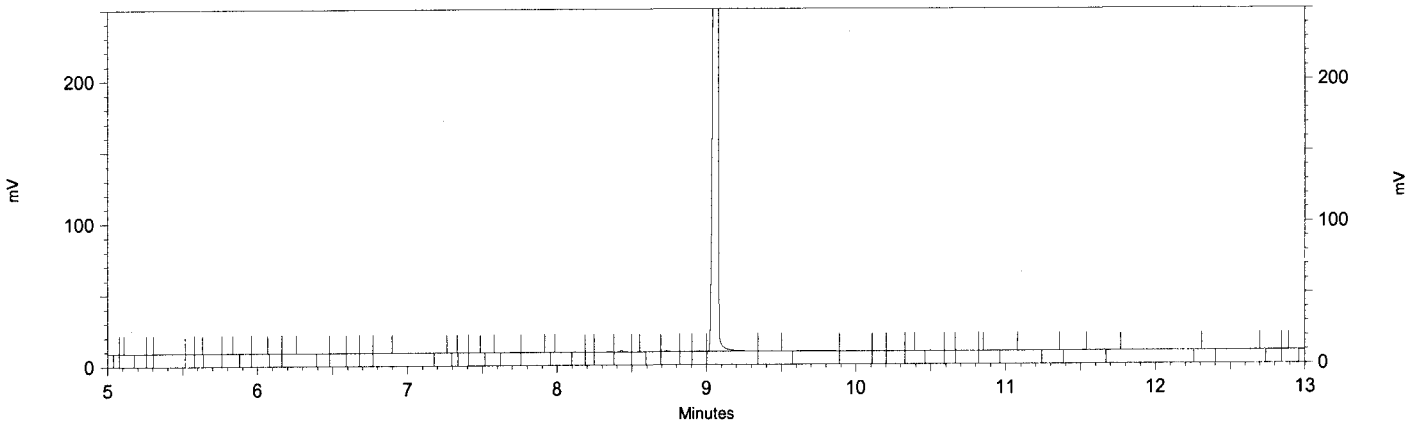
Sample Name: **ical,s7039,hex_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b015**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur331.met
Run Date: 11/30/2007 6:30:48 AM
Analysis Date: 11/30/2007 6:50:57 AM
Instrument: GC15B Vial: 15 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.075	1348200	63.443



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\333b015_6E92.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

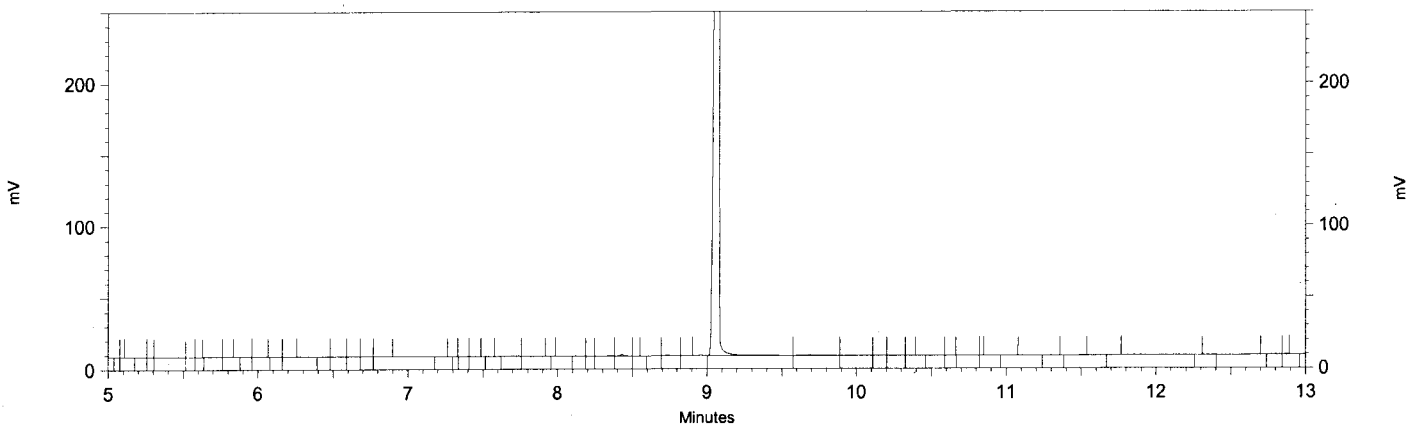
Sample Name: **ical,s7039,hex_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b015**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur333.met
Run Date: 11/30/2007 6:30:48 AM
Analysis Date: 11/30/2007 7:54:05 AM
Instrument: GC15B Vial: 15 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.075	1350607	50.000 CAL



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

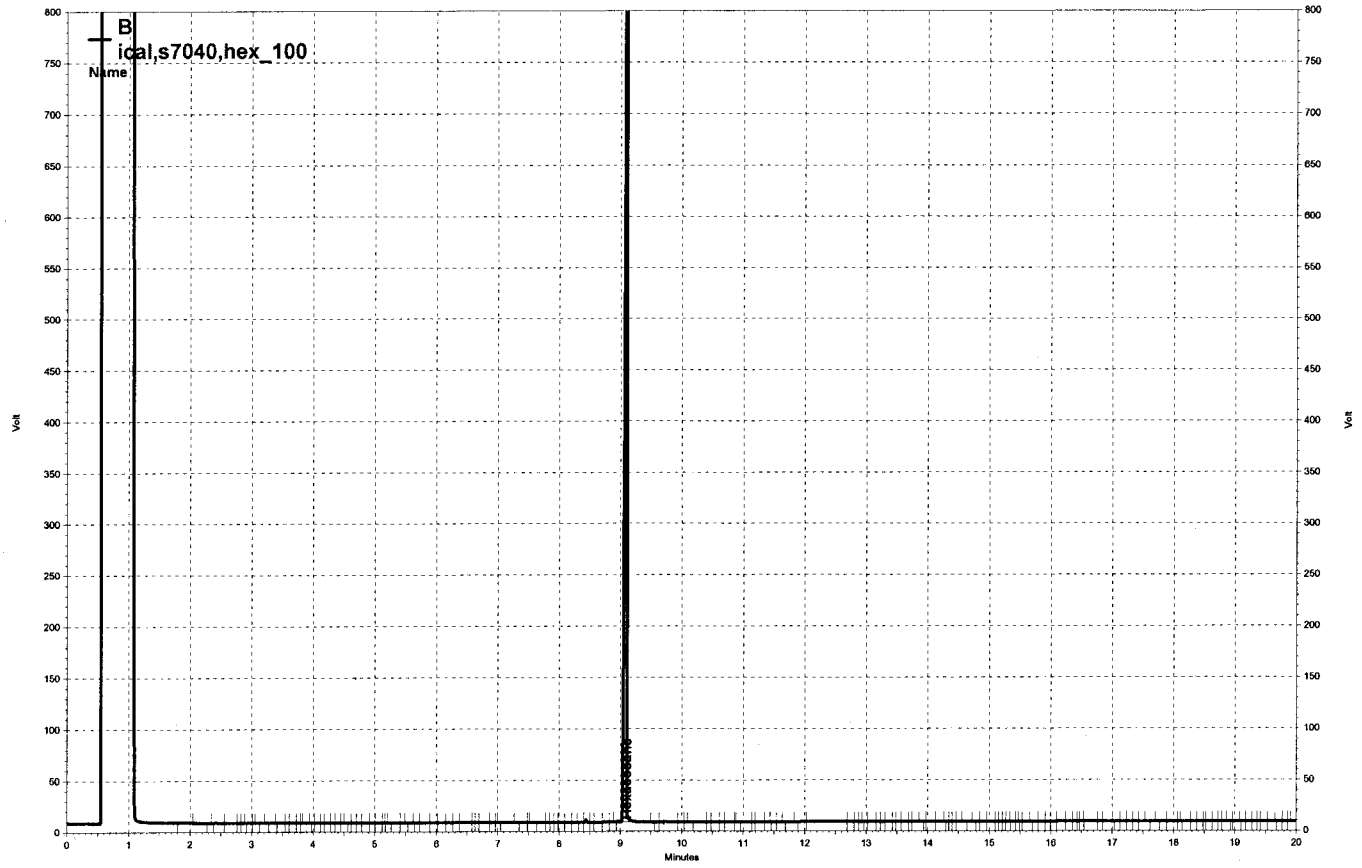
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.911	9.577	0



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b016, B

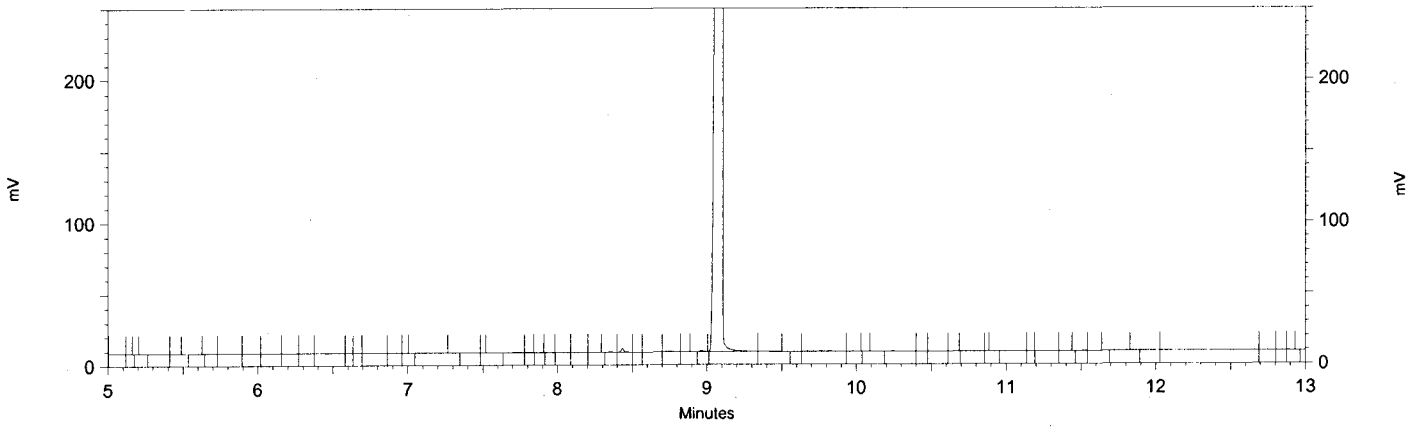
Sample Name: **ical,s7040,hex_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b016**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur331.met
Run Date: 11/30/2007 6:58:34 AM
Analysis Date: 11/30/2007 7:18:44 AM
Instrument: GC15B Vial: 16 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.102	2669735	125.631



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\333b016_6E93.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

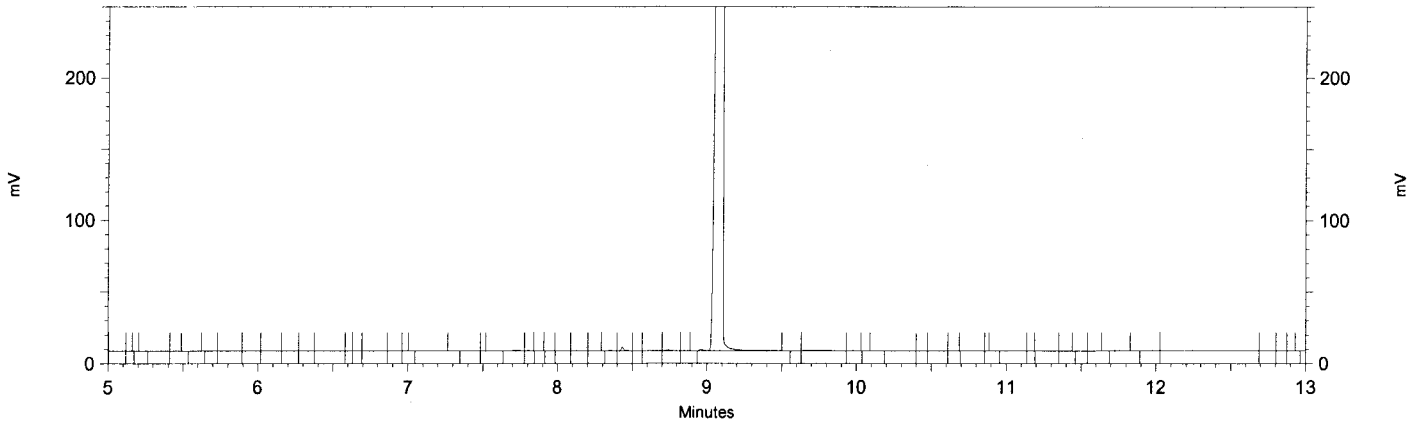
Sample Name: **ical,s7040,hex_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b016**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur333.met
Run Date: 11/30/2007 6:58:34 AM
Analysis Date: 11/30/2007 7:54:19 AM
Instrument: GC15B Vial: 16 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.102	2674439	100.000 CAL



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

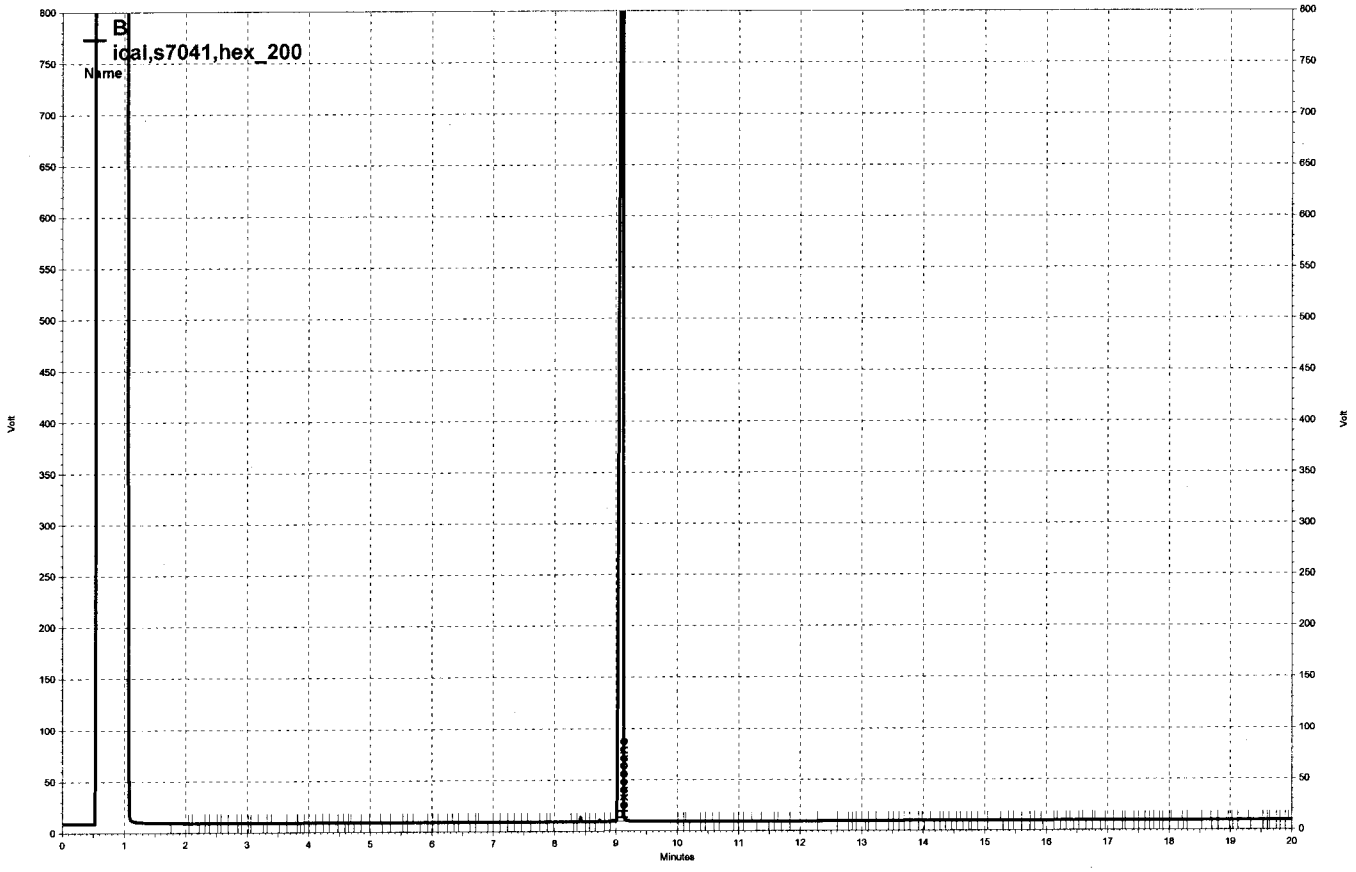
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.937	9.552	0



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b017, B

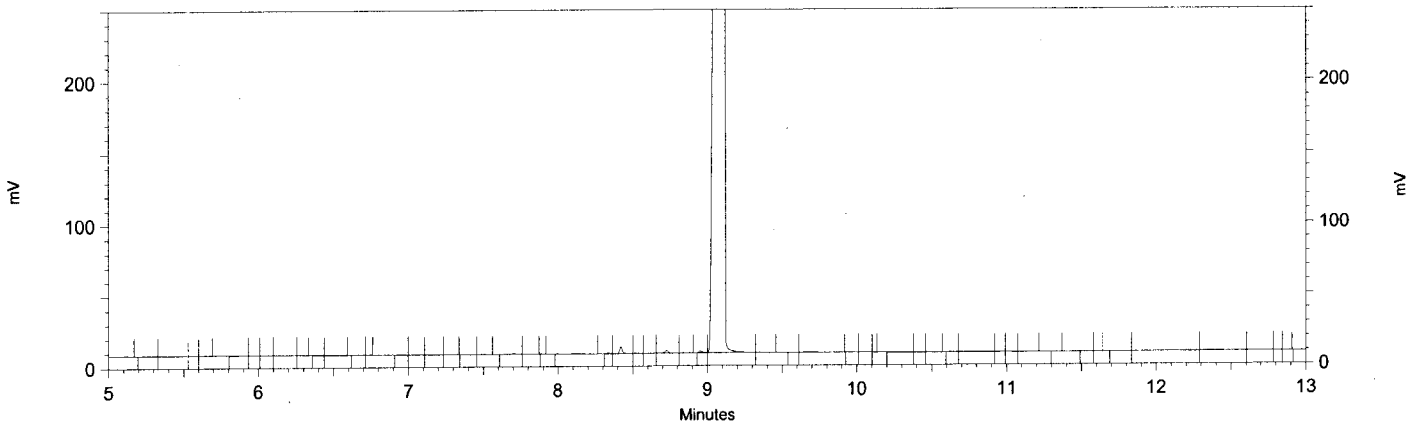
Sample Name: **ical,s7041,hex_200**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur331.met
Run Date: 11/30/2007 7:26:31 AM
Analysis Date: 11/30/2007 7:46:39 AM
Instrument: GC15B Vial: 17 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.115	5152818	242.480



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\333b017_6E94.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

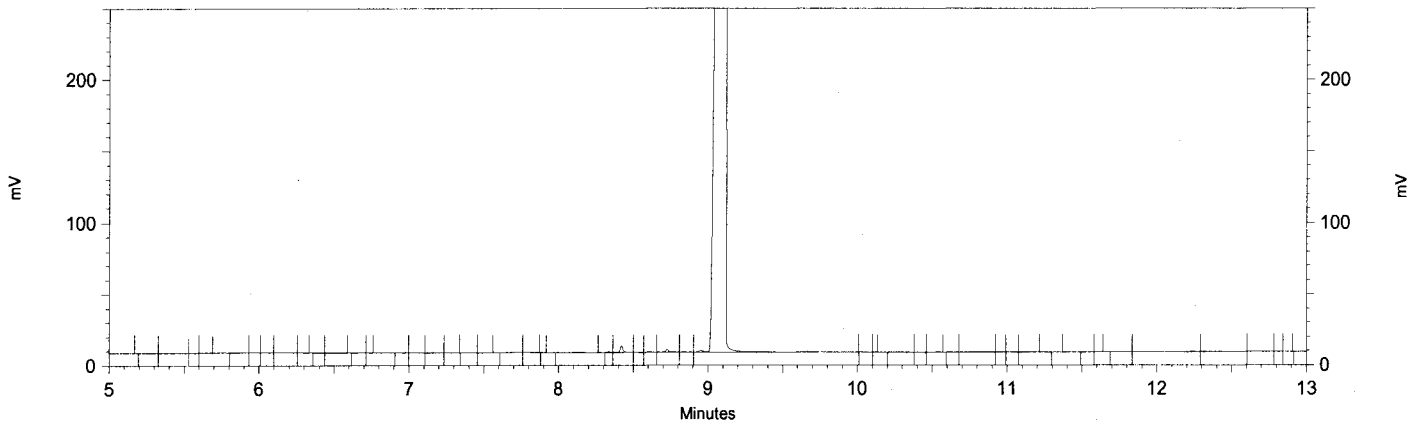
Sample Name: **ical,s7041,hex_200**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\333.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur333.met
Run Date: 11/30/2007 7:26:31 AM
Analysis Date: 11/30/2007 7:54:30 AM
Instrument: GC15B Vial: 17 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.115	5166539	200.000 CAL



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\333b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.9	10.009	0

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178033862001
Units : mg/L

Name : DSL
Date : 23-JAN-2008 16:34
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	023a009	178033862009	DSL_10	23-JAN-2008 16:34	S7961
L2	023a010	178033862010	DSL_100	23-JAN-2008 17:01	S7962
L3	023a011	178033862011	DSL_500	23-JAN-2008 17:29	S7963
L4	023a012	178033862012	DSL_1000	23-JAN-2008 17:56	S7964
L5	023a013	178033862013	DSL_5000	23-JAN-2008 18:23	S7960
L6	023a014	178033862014	DSL_7500	23-JAN-2008 18:51	S7965

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60742	57877	58443	64970	61981	60320	AVRG		1.65E-5		60722	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	0	100.0	-5	500.0	-4	1000	7	5000	2	7500	-1

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

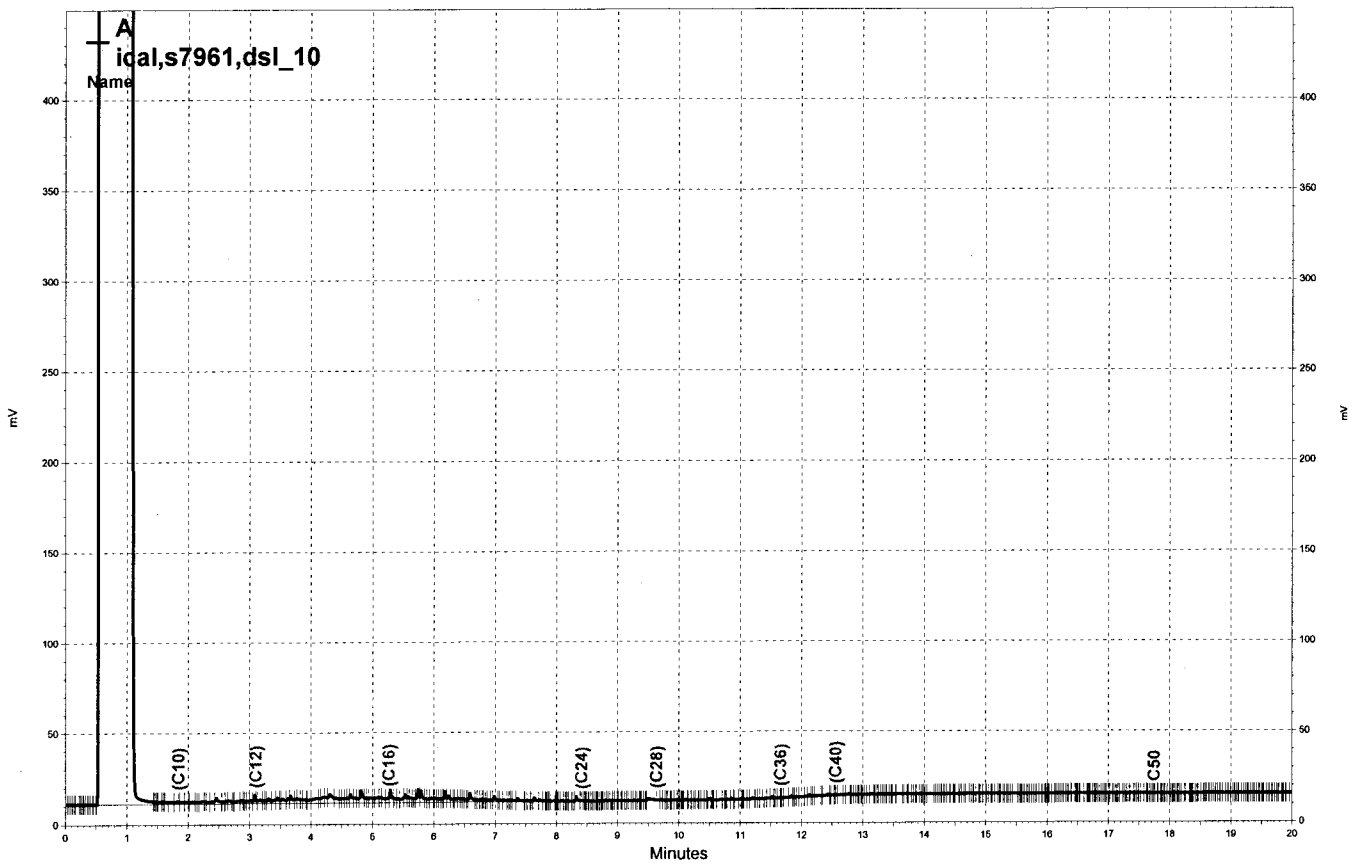
Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 GCSV Soil
EPA 8015B

Inst : GC17A
Name : DSL
Calnum : 178033862001
Cal Date : 23-JAN-2008

ICV 178033862016 (023a016 23-JAN-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	60722	66286	500.0	545.8	mg/L	9	



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a009, A

Sample Name: **ical,s7961,dsl_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 4:34:00 PM
Analysis Date: 1/24/2008 9:47:59 AM
Instrument: GC17A Vial: 9 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	435030	0.000 CAL
JP8:10-16	435030	0.000 CAL
KER:10-16	435030	0.000 CAL
JP5:10-16	435030	0.000 CAL
DSL:10-20	663208	10.000 CAL
DSL:10-22	701144	10.000 CAL
DSL:10-24	716979	10.000 CAL
DSL:12-22	591589	10.000 CAL
DSL:10-28	728488	10.000 CAL
DSL:12-24	607424	10.000 CAL
DSL:12-32	623774	10.000 CAL
BUNKC:12-40	639212	0.000 CAL
HYFL:12-40	639212	0.000 CAL
MO:22-32	32185	0.000 CAL
MO:20-36	74856	0.000 CAL
MO:22-36	36920	0.000 CAL
MO:24-36	21085	0.000 CAL
BUNKC:12-50	709709	0.000 CAL
MO:28-36	9576	0.000 CAL
MO:28-40	20279	0.000 CAL
DSL:10-12	109555	0.000 CAL
DSL:12-16	325475	0.000 CAL
DSL:16-24	281949	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

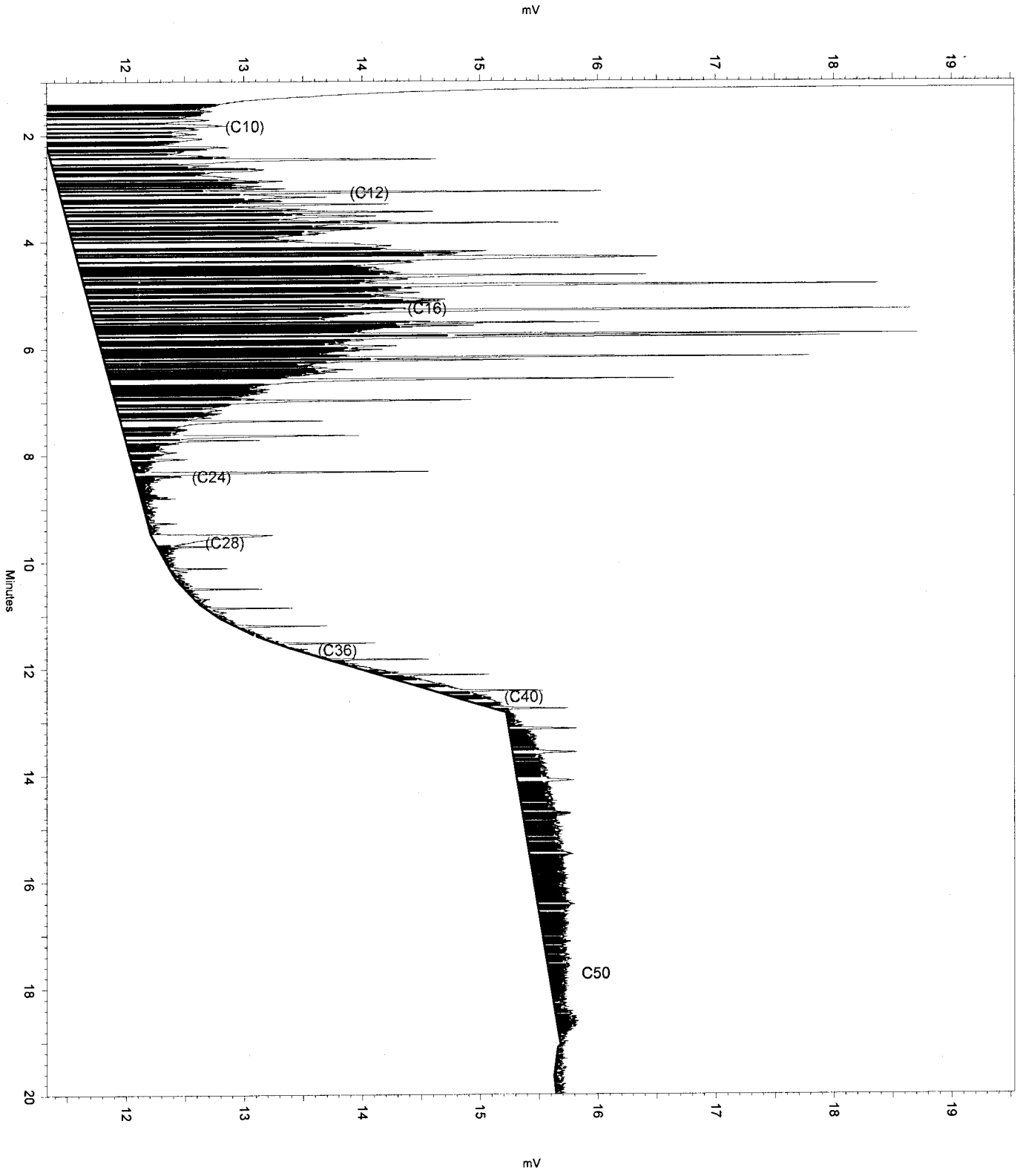
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

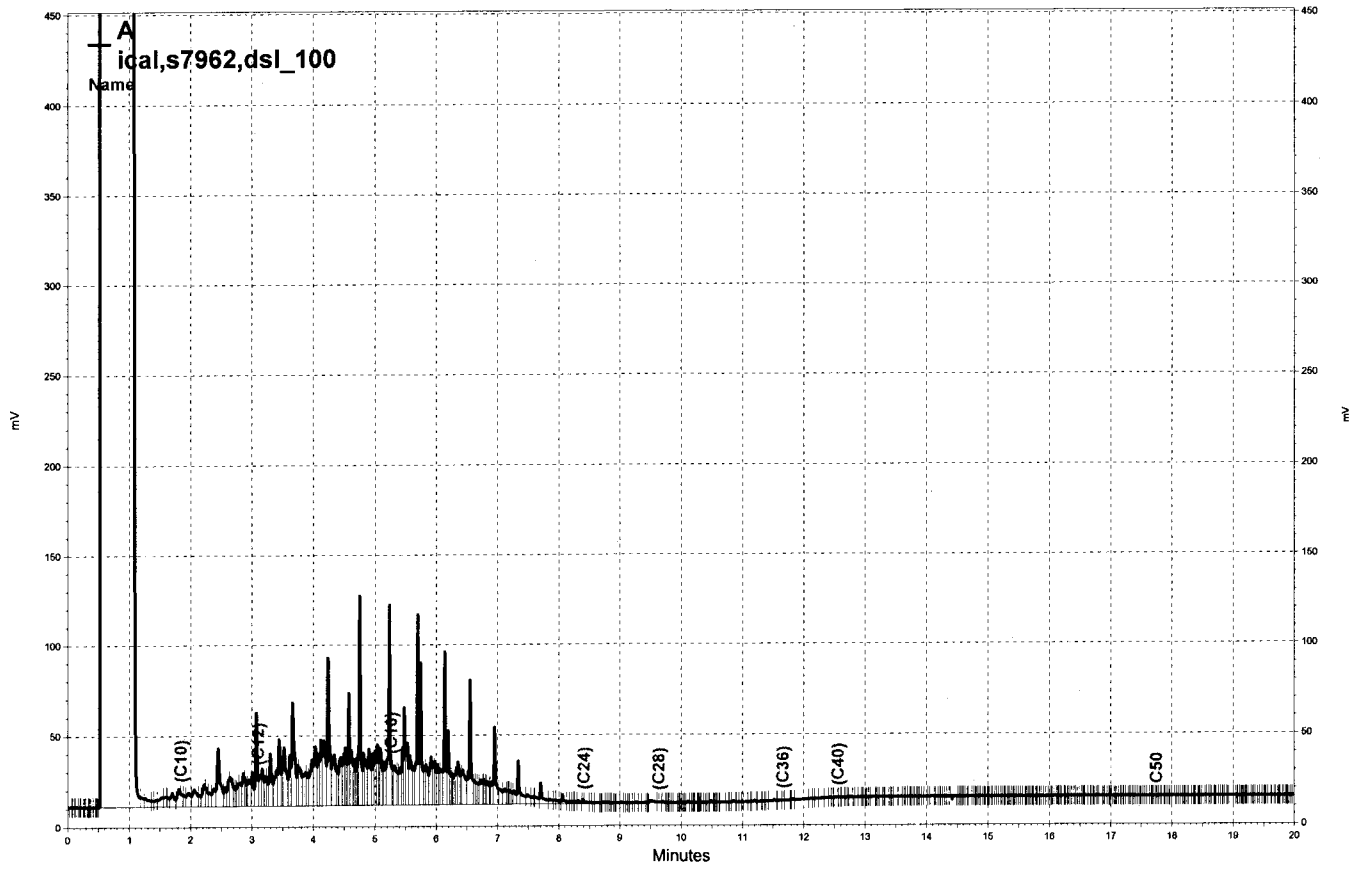
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	8.847	9.472	0
Yes	Reset Baseline at Valley	12.811	0	0

Sample Name: **ical,s7961,dsl_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 4:34:00 PM
Analysis Date: 1/24/2008 9:47:59 AM
Instrument: GC17A Vial: 9 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



 Curtis & Tompkins Ltd.



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a010, A

Sample Name: **ical,s7962,dsl_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 5:01:43 PM
Analysis Date: 1/24/2008 9:48:32 AM
Instrument: GC17A Vial: 10 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	4113001	0.000 CAL
JP8:10-16	4113001	0.000 CAL
KER:10-16	4113001	0.000 CAL
JP5:10-16	4113001	0.000 CAL
DSL:10-20	6291409	100.000 CAL
DSL:10-22	6569554	100.000 CAL
DSL:10-24	6634252	100.000 CAL
DSL:12-22	5723002	100.000 CAL
DSL:10-28	6664863	100.000 CAL
DSL:12-24	5787700	100.000 CAL
DSL:12-32	5828640	100.000 CAL
BUNKC:12-40	5842803	0.000 CAL
HYFL:12-40	5842803	0.000 CAL
MO:22-32	105638	0.000 CAL
MO:20-36	388182	0.000 CAL
MO:22-36	110037	0.000 CAL
MO:24-36	45339	0.000 CAL
BUNKC:12-50	5869980	0.000 CAL
MO:28-36	14728	0.000 CAL
MO:28-40	24492	0.000 CAL
DSL:10-12	846552	0.000 CAL
DSL:12-16	3266449	0.000 CAL
DSL:16-24	2521251	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

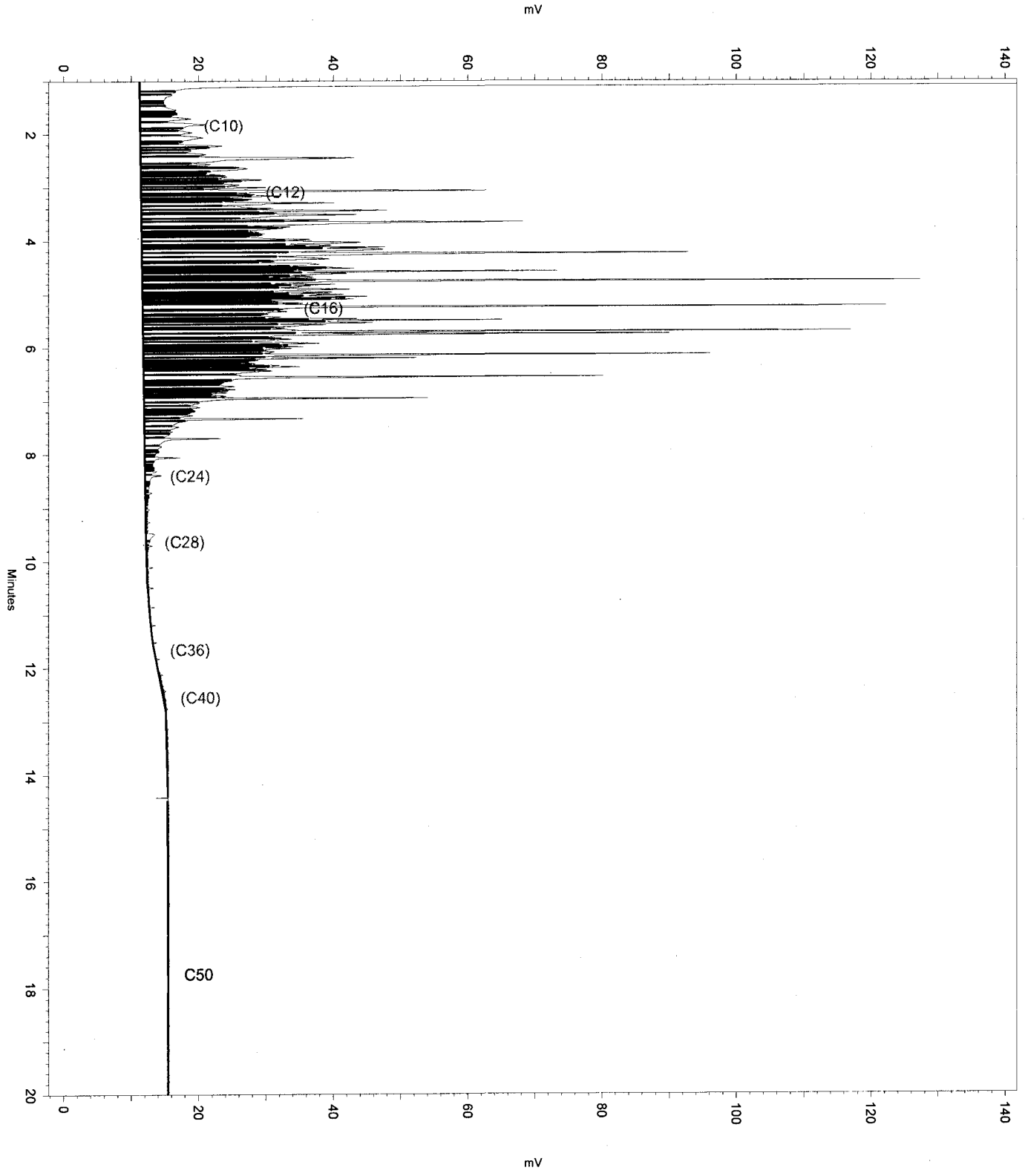
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a010

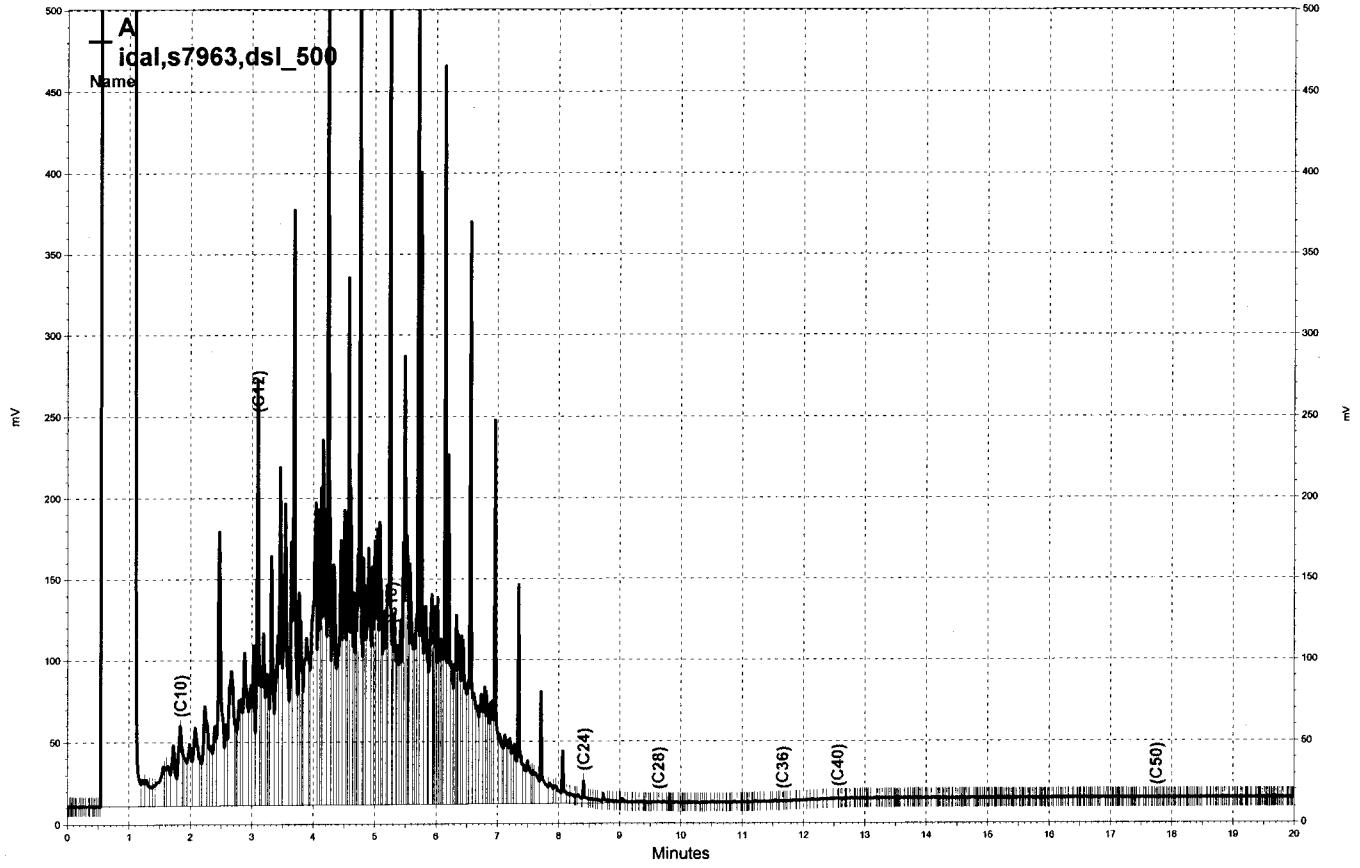
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	8.497	9.463	0
Yes	Move BL Stop	14.42	14.39	0
Yes	Move BL Start	14.42	14.49	0

Sample Name: **ical,s7962,dsl_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 5:01:43 PM
Analysis Date: 1/24/2008 9:48:32 AM
Instrument: GC17A Vial: 10 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: **1** PDF: 1



 Curtis & Tompkins Ltd.

00223



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a011, A

Sample Name: **ical,s7963,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 5:29:07 PM
Analysis Date: 1/24/2008 9:48:49 AM
Instrument: GC17A Vial: 11 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	20784044	0.000 CAL
JP8:10-16	20784044	0.000 CAL
KER:10-16	20784044	0.000 CAL
JP5:10-16	20784044	0.000 CAL
DSL:10-20	31820706	500.000 CAL
DSL:10-22	33195852	500.000 CAL
DSL:10-24	33479400	500.000 CAL
DSL:12-22	28937784	500.000 CAL
DSL:10-28	33557424	500.000 CAL
DSL:12-24	29221332	500.000 CAL
DSL:12-32	29306090	500.000 CAL
BUNKC:12-40	29326028	0.000 CAL
HYFL:12-40	29326028	0.000 CAL
MO:22-32	368296	0.000 CAL
MO:20-36	1748242	0.000 CAL
MO:22-36	373096	0.000 CAL
MO:24-36	89552	0.000 CAL
BUNKC:12-50	29352714	0.000 CAL
MO:28-36	11532	0.000 CAL
MO:28-40	26673	0.000 CAL
DSL:10-12	4258059	0.000 CAL
DSL:12-16	16525980	0.000 CAL
DSL:16-24	12695353	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

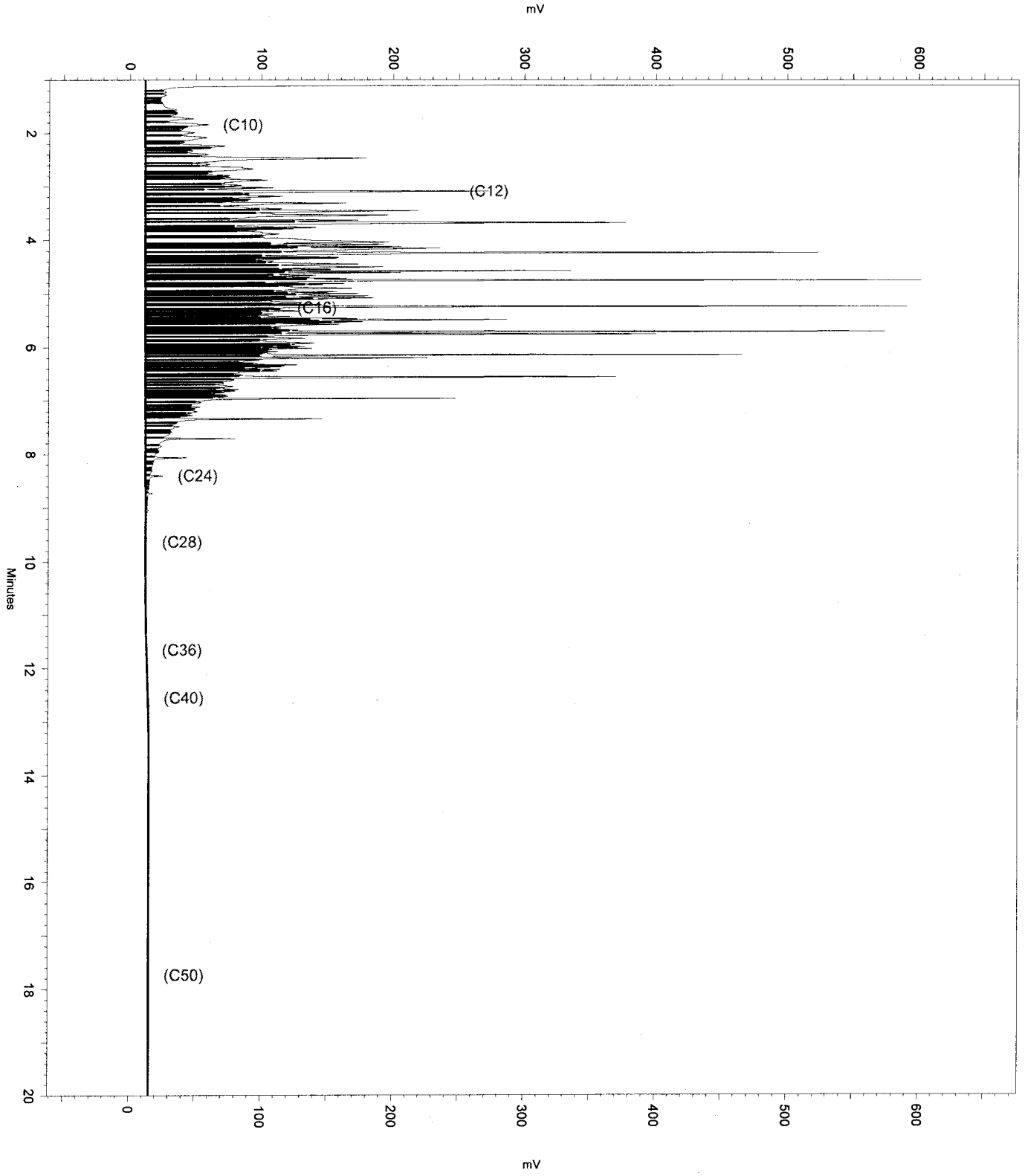
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

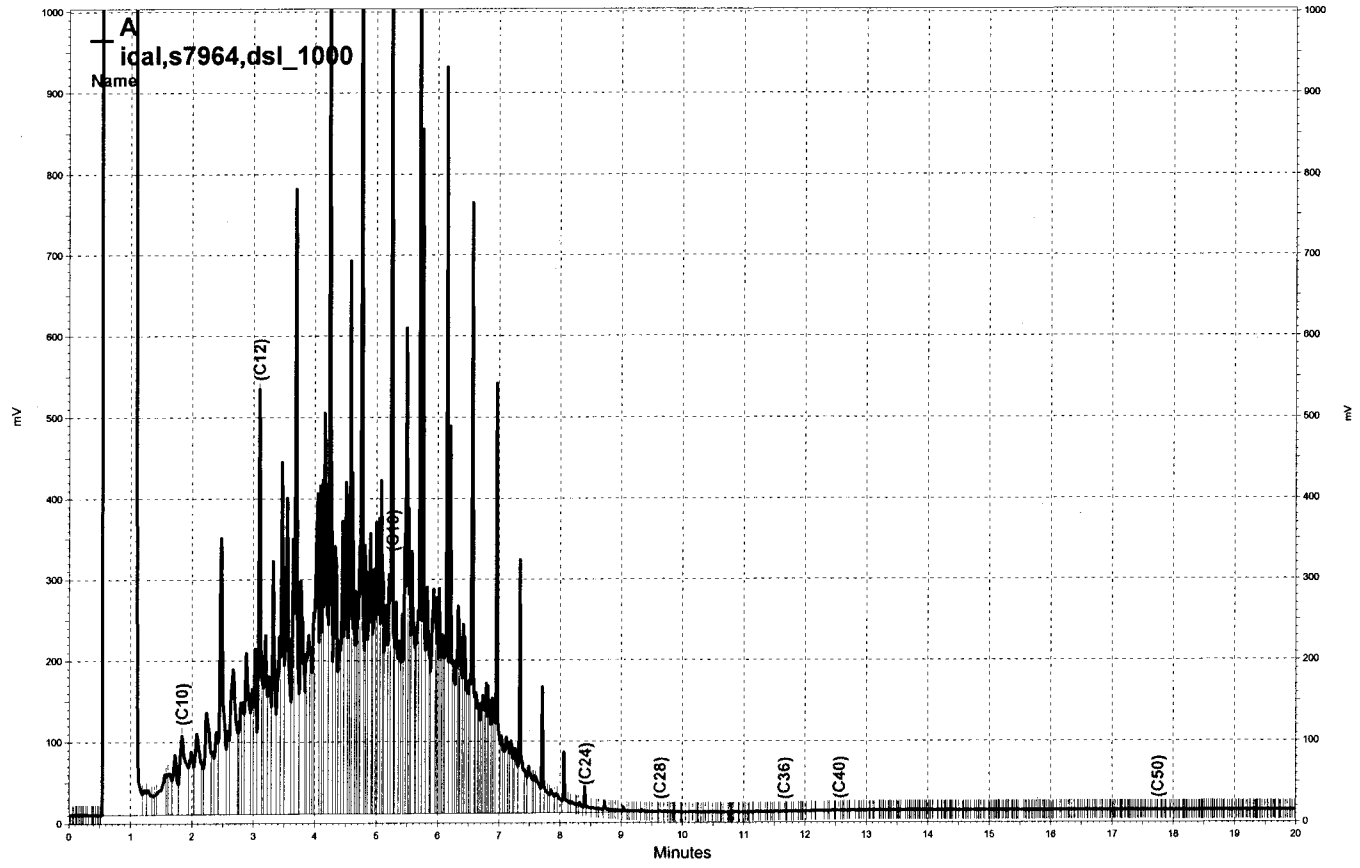
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	8.892	9.885	0

Sample Name: **ical,s7963,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 5:29:07 PM
Analysis Date: 1/24/2008 9:48:49 AM
Instrument: GC17A Vial: 11 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: **1** PDF: 1



 Curtis & Tompkins Ltd.



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a012, A

Sample Name: **ical,s7964,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 5:56:29 PM
Analysis Date: 1/24/2008 9:49:02 AM
Instrument: GC17A Vial: 12 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	44849780	0.000 CAL
JP8:10-16	44849780	0.000 CAL
KER:10-16	44849780	0.000 CAL
JP5:10-16	44849780	0.000 CAL
DSL:10-20	68962584	1000.000 CAL
DSL:10-22	71869400	1000.000 CAL
DSL:10-24	72613936	1000.000 CAL
DSL:12-22	64225228	1000.000 CAL
DSL:10-28	72829984	1000.000 CAL
DSL:12-24	64969776	1000.000 CAL
DSL:12-32	65203656	1000.000 CAL
BUNKC:12-40	65218160	0.000 CAL
HYFL:12-40	65218160	0.000 CAL
MO:22-32	978421	0.000 CAL
MO:20-36	3890402	0.000 CAL
MO:22-36	983586	0.000 CAL
MO:24-36	239044	0.000 CAL
BUNKC:12-50	65251840	0.000 CAL
MO:28-36	22990	0.000 CAL
MO:28-40	32338	0.000 CAL
DSL:10-12	7644187	0.000 CAL
DSL:12-16	37205596	0.000 CAL
DSL:16-24	27764194	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

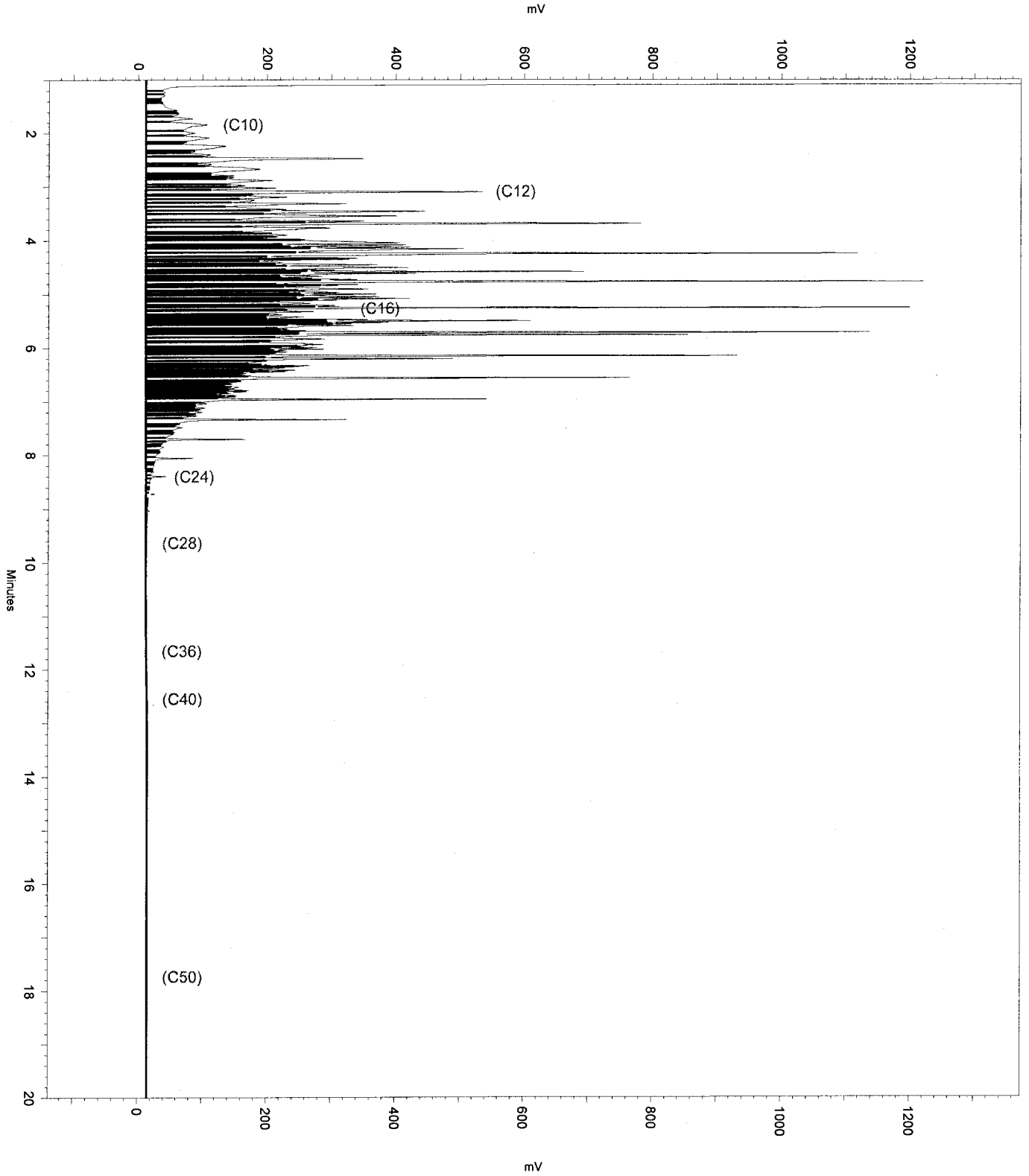
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a012

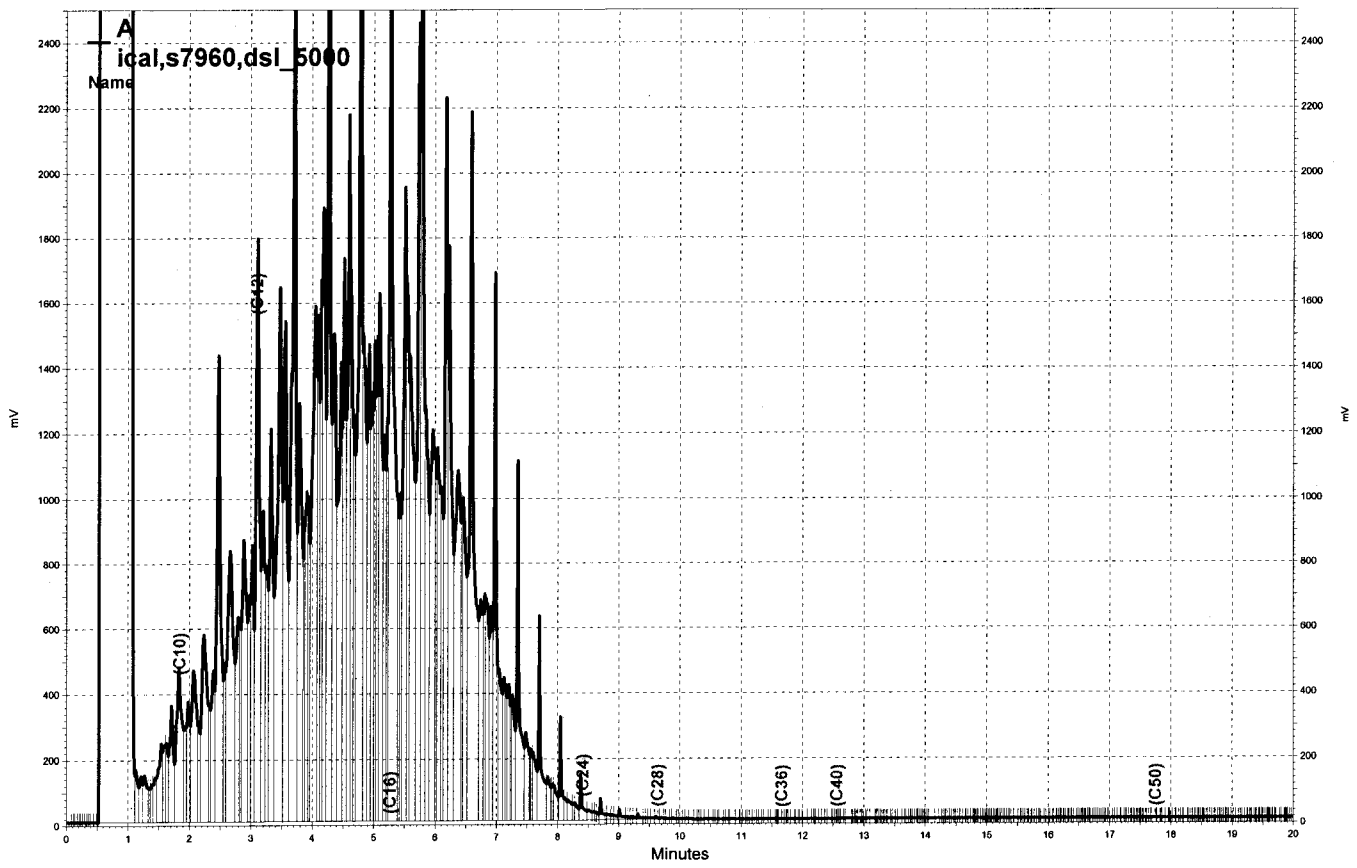
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline at Valley	12.815	0	0

: 00228

Sample Name: **ical,s7964,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 5:56:29 PM
Analysis Date: 1/24/2008 9:49:02 AM
Instrument: GC17A Vial: 12 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: **1** PDF: 1



 Curtis & Tompkins Ltd.



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a013, A

Sample Name: **ical,s7960,dsl_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a013**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 6:23:50 PM
Analysis Date: 1/24/2008 9:49:14 AM
Instrument: GC17A Vial: 13 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	205470224	0.000 CAL
JP8:10-16	205470224	0.000 CAL
KER:10-16	205470224	0.000 CAL
JP5:10-16	205470224	0.000 CAL
DSL:10-20	324963872	5000.000 CAL
DSL:10-22	343939008	5000.000 CAL
DSL:10-24	346971584	5000.000 CAL
DSL:12-22	306870208	5000.000 CAL
DSL:10-28	347894688	5000.000 CAL
DSL:12-24	309902784	5000.000 CAL
DSL:12-32	310940960	5000.000 CAL
BUNKC:12-40	310977600	0.000 CAL
HYFL:12-40	310977600	0.000 CAL
MO:22-32	4070851	0.000 CAL
MO:20-36	23063680	0.000 CAL
MO:22-36	4088592	0.000 CAL
MO:24-36	1055978	0.000 CAL
BUNKC:12-50	311029216	0.000 CAL
MO:28-36	132873	0.000 CAL
MO:28-40	151784	0.000 CAL
DSL:10-12	37068792	0.000 CAL
DSL:12-16	168401456	0.000 CAL
DSL:16-24	141501376	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

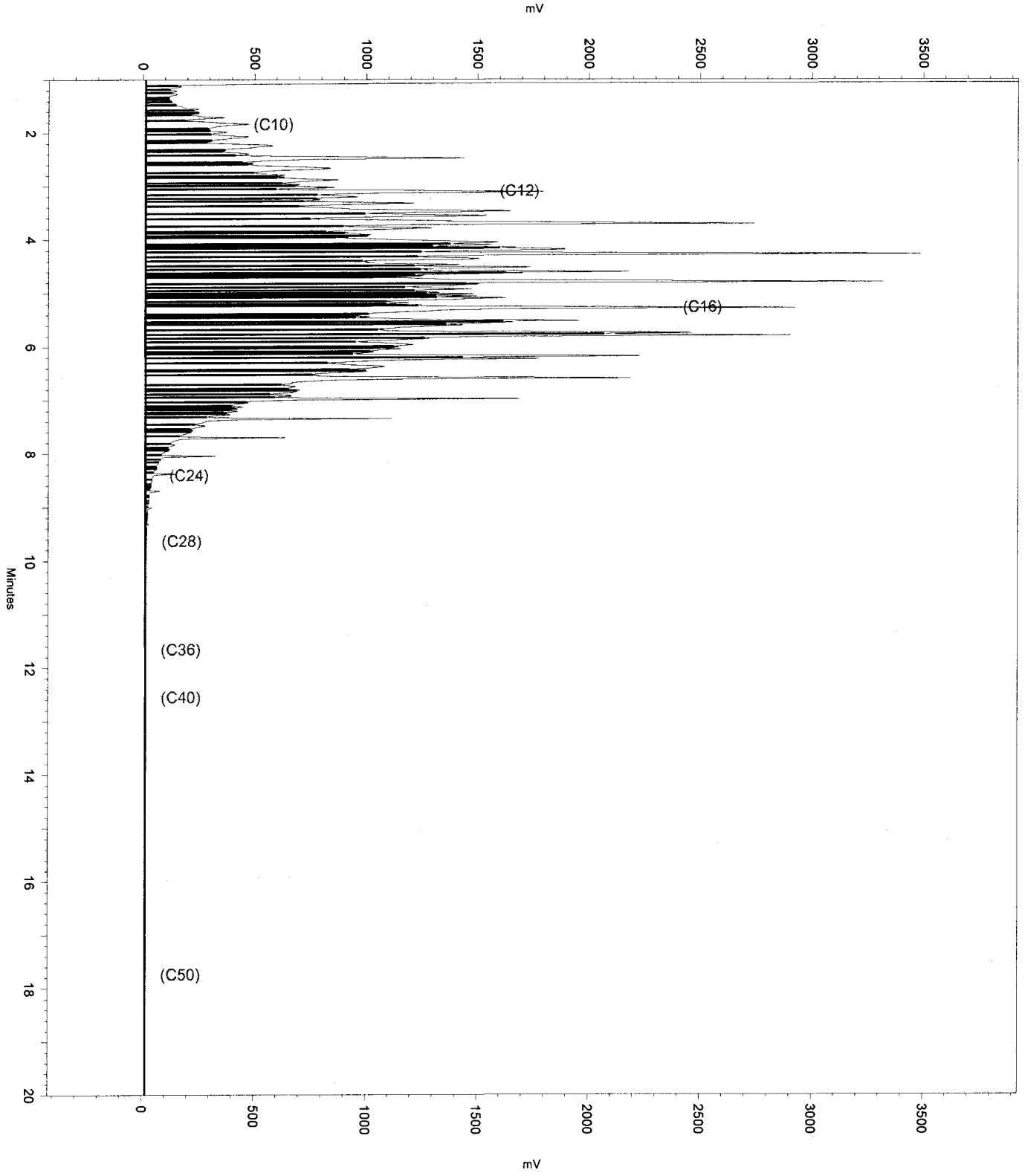
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

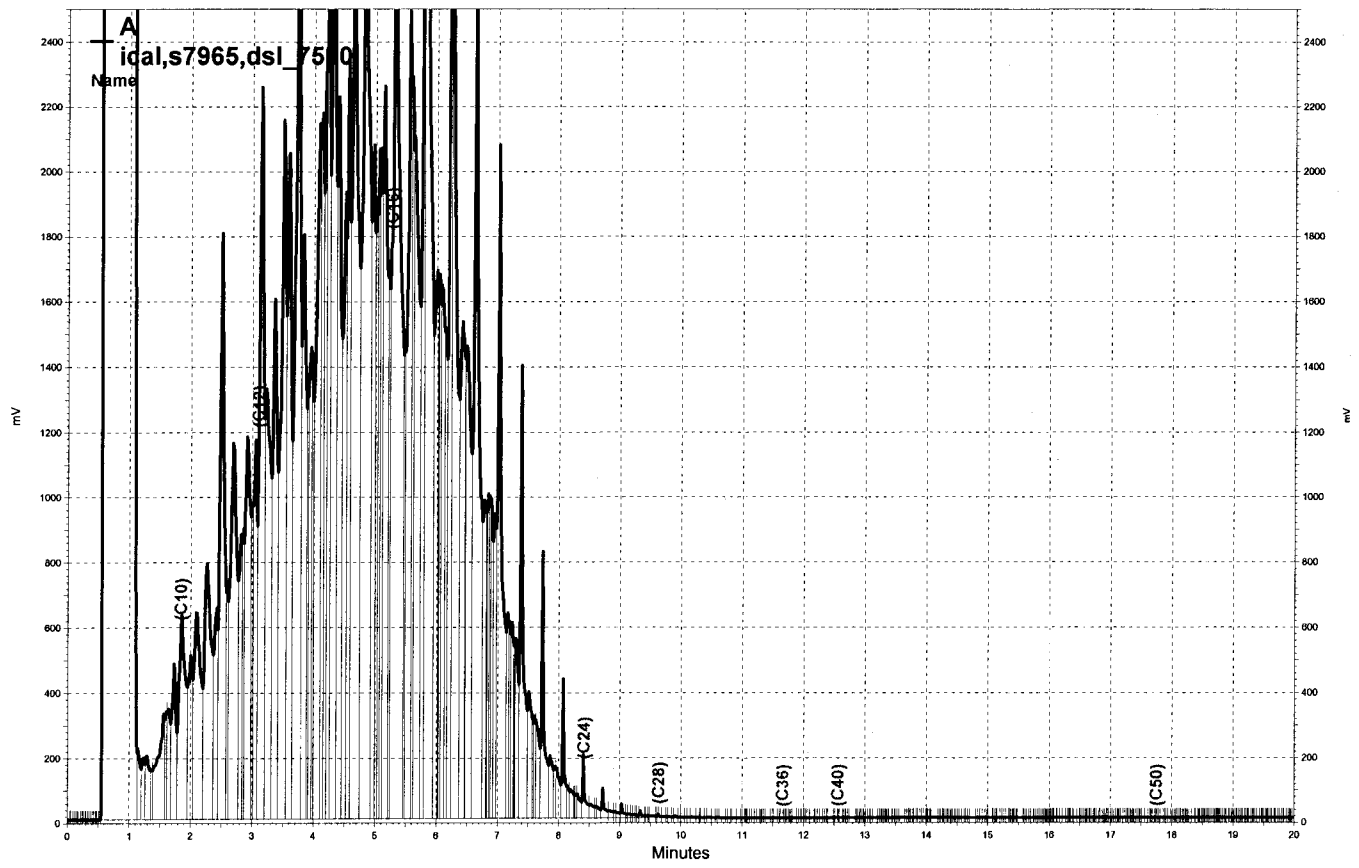
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s7960,dsl_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a013**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 6:23:50 PM
Analysis Date: 1/24/2008 9:49:14 AM
Instrument: GC17A Vial: 13 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



 Curtis & Tompkins Ltd.



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a014, A

Sample Name: **ical,s7965,dsl_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 6:51:12 PM
Analysis Date: 1/24/2008 9:49:22 AM
Instrument: GC17A Vial: 14 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	299775968	0.000 CAL
JP8:10-16	299775968	0.000 CAL
KER:10-16	299775968	0.000 CAL
JP5:10-16	299775968	0.000 CAL
DSL:10-20	477908928	7500.000 CAL
DSL:10-22	503442560	7500.000 CAL
DSL:10-24	510390304	7500.000 CAL
DSL:12-22	445452096	7500.000 CAL
DSL:10-28	511672704	7500.000 CAL
DSL:12-24	452399840	7500.000 CAL
DSL:12-32	453787552	7500.000 CAL
BUNKC:12-40	453815072	0.000 CAL
HYFL:12-40	453815072	0.000 CAL
MO:22-32	8335572	0.000 CAL
MO:20-36	33876976	0.000 CAL
MO:22-36	8343325	0.000 CAL
MO:24-36	1395570	0.000 CAL
BUNKC:12-50	453935232	0.000 CAL
MO:28-36	113111	0.000 CAL
MO:28-40	132882	0.000 CAL
DSL:10-12	57990476	0.000 CAL
DSL:12-16	241785488	0.000 CAL
DSL:16-24	210614352	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

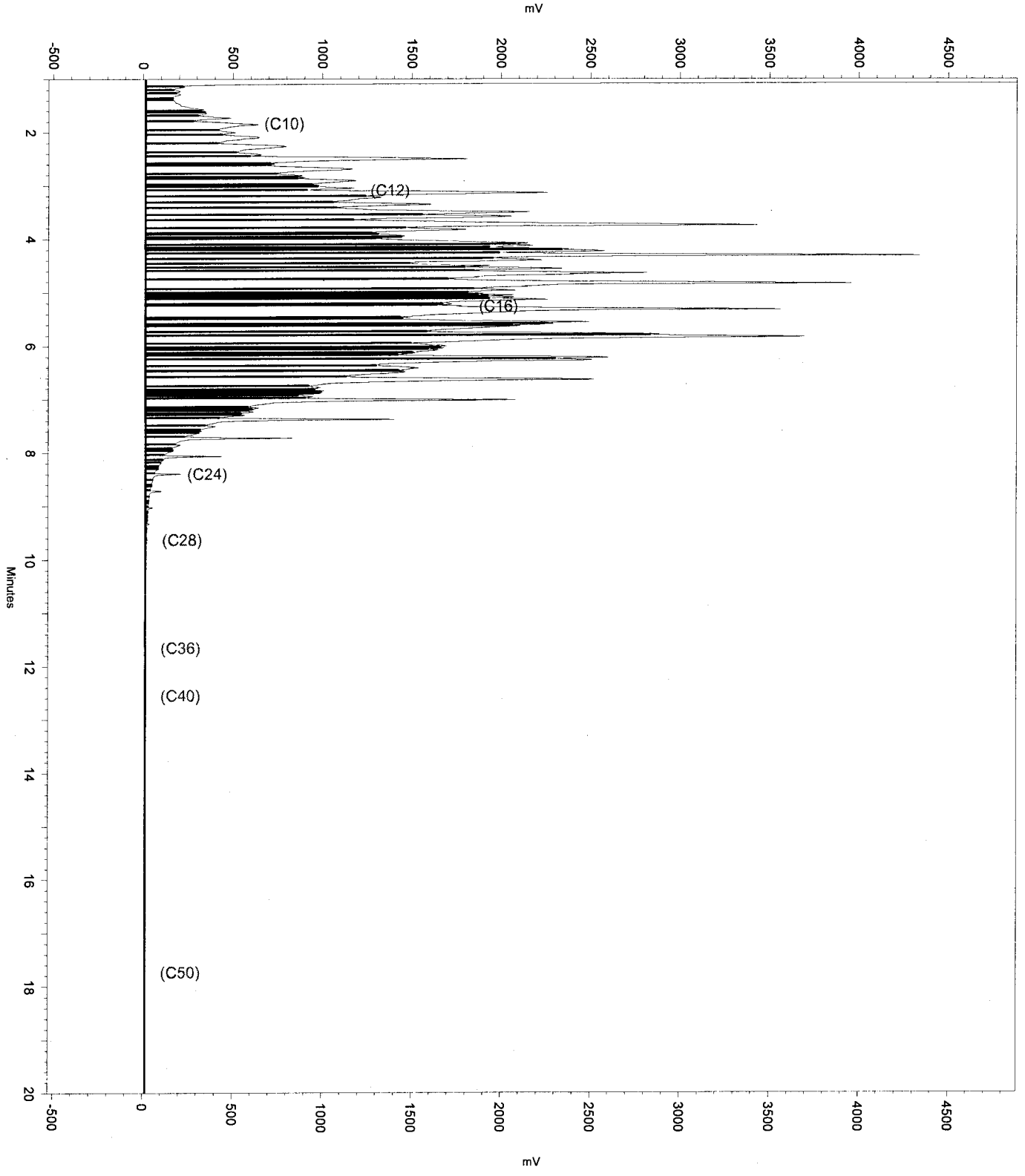
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

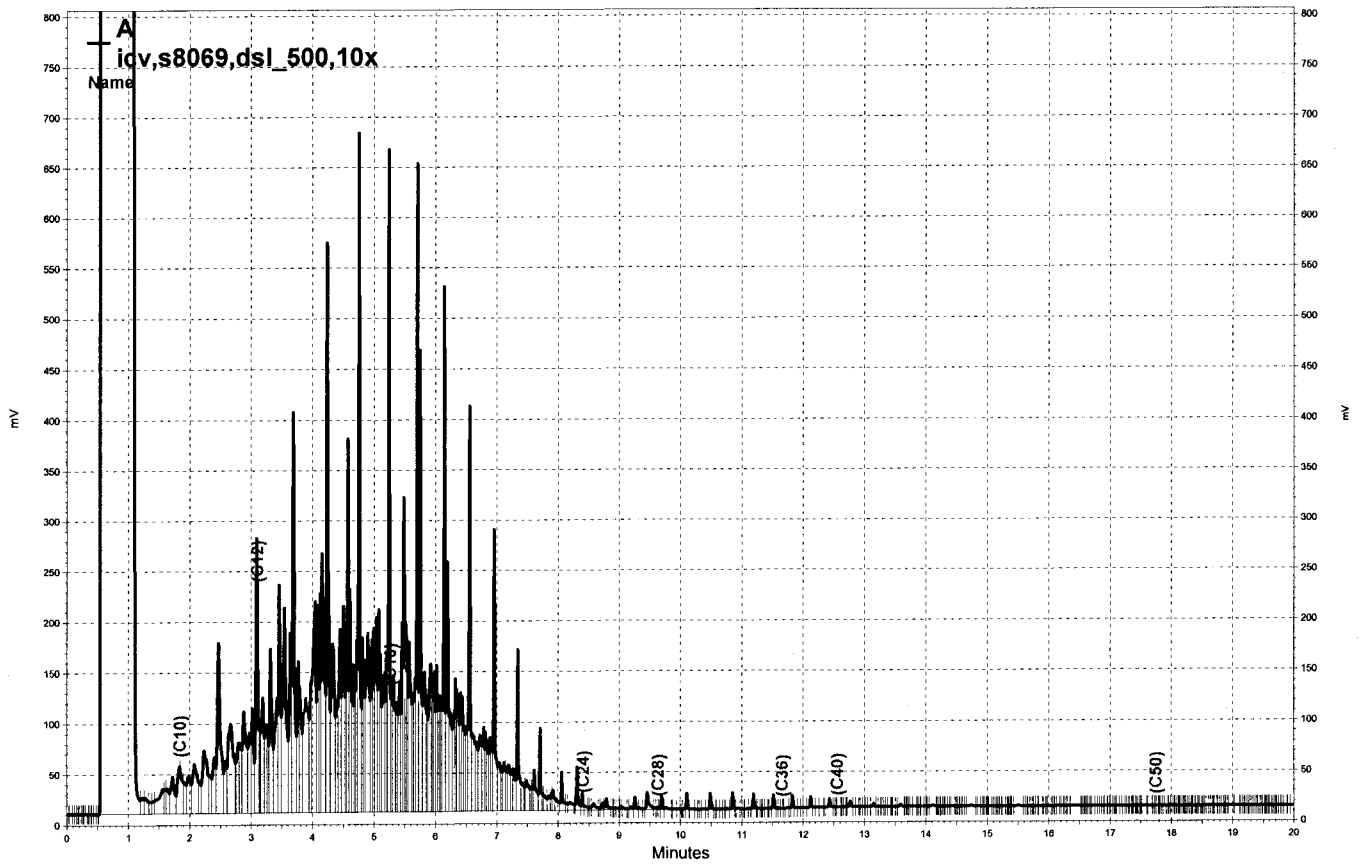
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s7965,dsl_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 6:51:12 PM
Analysis Date: 1/24/2008 9:49:22 AM
Instrument: GC17A Vial: 14 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: **1** PDF: 1



 Curtis & Tompkins Ltd.



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a016, A

Sample Name: **icv,s8069,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a016**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 7:46:03 PM
Analysis Date: 1/24/2008 9:57:24 AM
Instrument: GC17A Vial: 16 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	23142780	460.443
JP8:10-16	23142780	498.327
KER:10-16	23142780	377.854
JP5:10-16	23142780	403.088
DSL:10-20	35699176	548.441
DSL:10-22	37238108	544.968
DSL:10-24	37703656	545.035
DSL:12-22	32677460	545.750
DSL:10-28	37920524	545.300
DSL:12-24	33143008	545.815
DSL:12-32	33450734	546.621
BUNKC:12-40	33569472	1368.962
HYFL:12-40	33569472	461.149
MO:22-32	773268	18.466
MO:20-36	2381596	45.586
MO:22-36	842666	18.045
MO:24-36	377119	10.094
BUNKC:12-50	33618564	1179.838
MO:28-36	160254	9.480
MO:28-40	209587	10.988
DSL:10-12	4560650	0.000
DSL:12-16	18582128	0.000
DSL:16-24	14560872	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

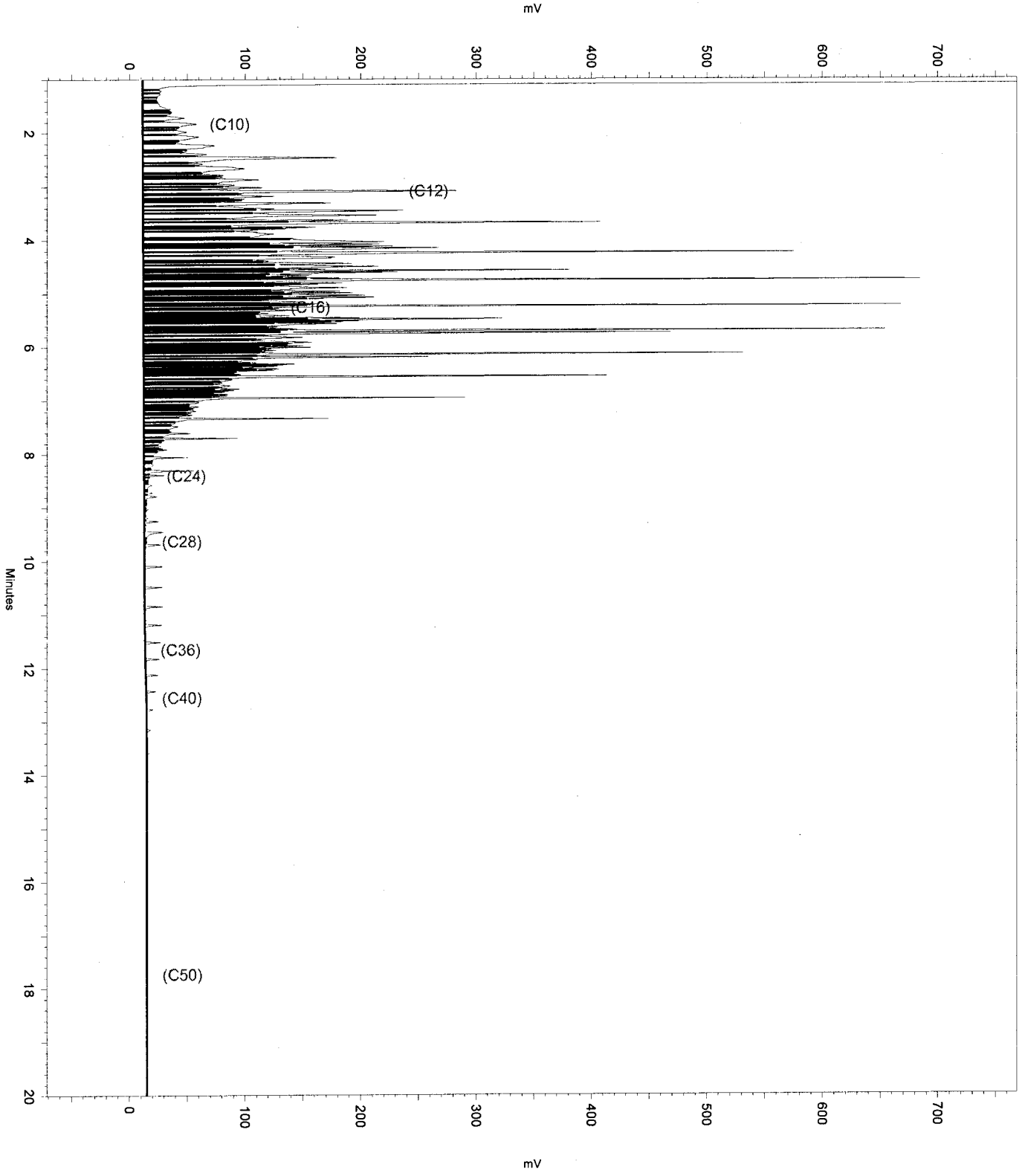
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline at Valley	12.62	0	0

: 00237

Sample Name: **icv,s8069,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a016**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh023.met
Run Date: 1/23/2008 7:46:03 PM
Analysis Date: 1/24/2008 9:57:24 AM
Instrument: GC17A Vial: 16 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: **1** PDF: 1



 Curtis & Tompkins Ltd.

00238

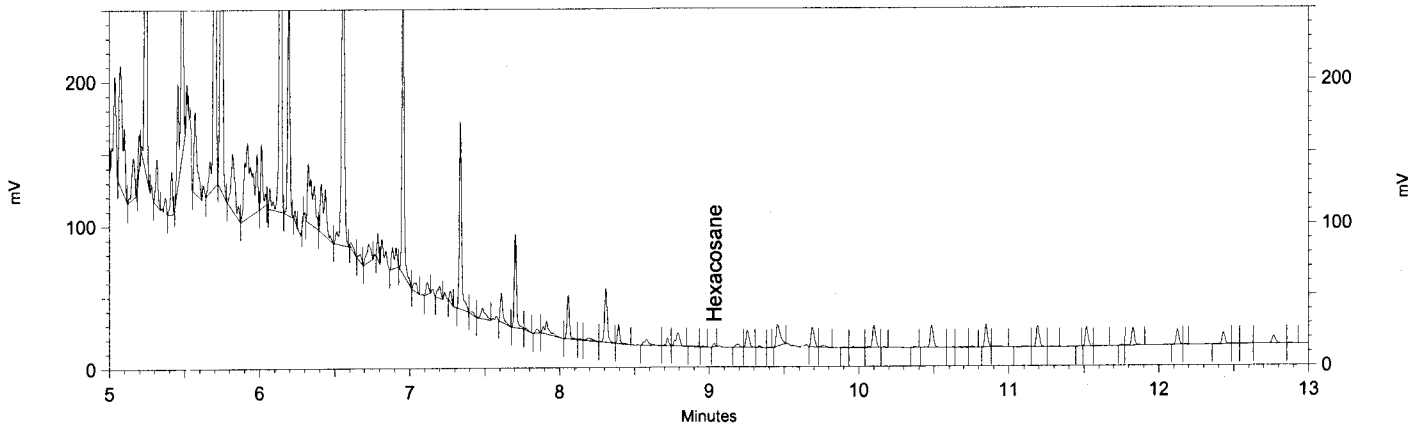
Sample Name: **icv,s8069,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\023a016**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\023.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur021.met
Run Date: 1/23/2008 7:46:03 PM
Analysis Date: 1/23/2008 8:06:12 PM
Instrument: GC17A Vial: 16 Operator: lims2k3\teh3
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.033	2181	0.037



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\023a016_29B8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178035189001
Units : mg/L

Name : HEX_024
Date : 24-JAN-2008 13:37
X Axis : R

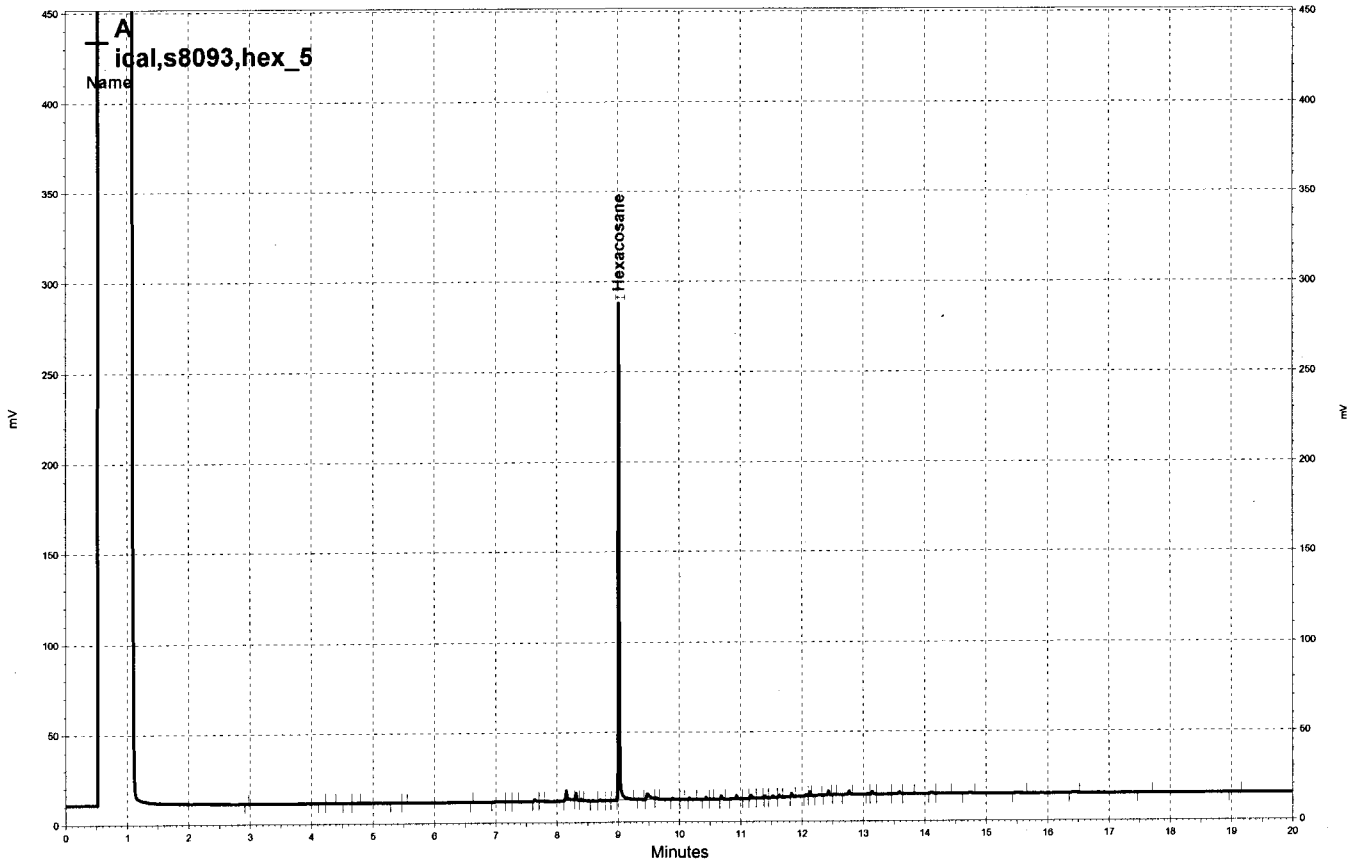
Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a007	178035189007	HEX_5	24-JAN-2008 13:37	S8093
L2	024a008	178035189008	HEX_10	24-JAN-2008 14:04	S8094
L3	024a009	178035189009	HEX_25	24-JAN-2008 14:32	S8095
L4	024a010	178035189010	HEX_50	24-JAN-2008 14:59	S8096
L5	024a011	178035189011	HEX_100	24-JAN-2008 15:26	S8097

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	66995	65277	66174	65324	65865	AVRG		1.52E-5		65927	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Hexacosane	5.000	2	10.00	-1	25.00	0	50.00	-1	100.0	0

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a007, A

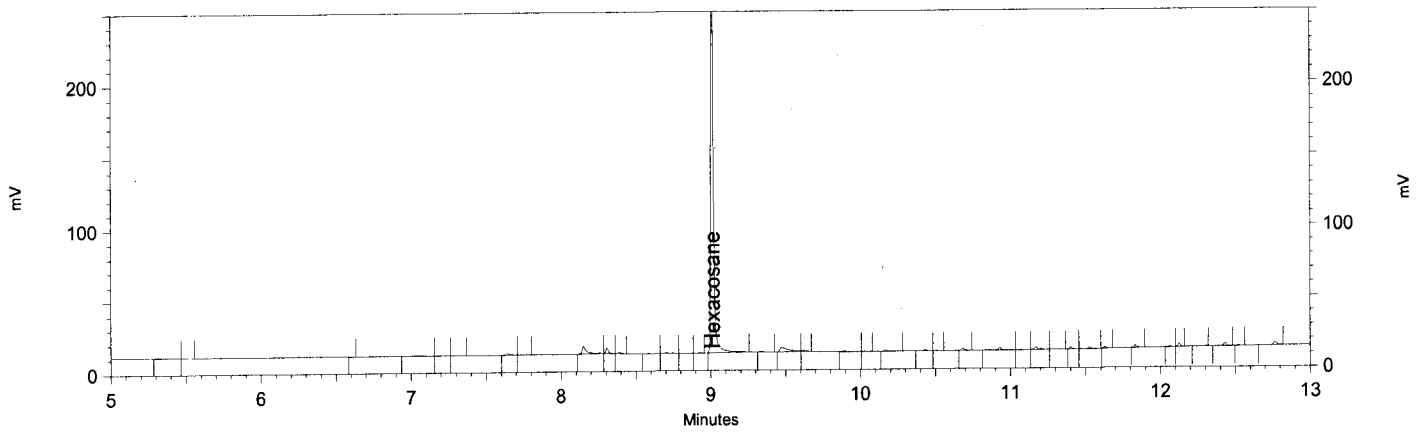
Sample Name: **ical,s8093,hex_5**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur024.met
Run Date: 1/24/2008 1:37:08 PM
Analysis Date: 1/25/2008 11:01:51 AM
Instrument: GC17A Vial: 7 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.013	334975	5.000 CAL



---< General Method Parameters >---

No items selected for this section

---< A >---

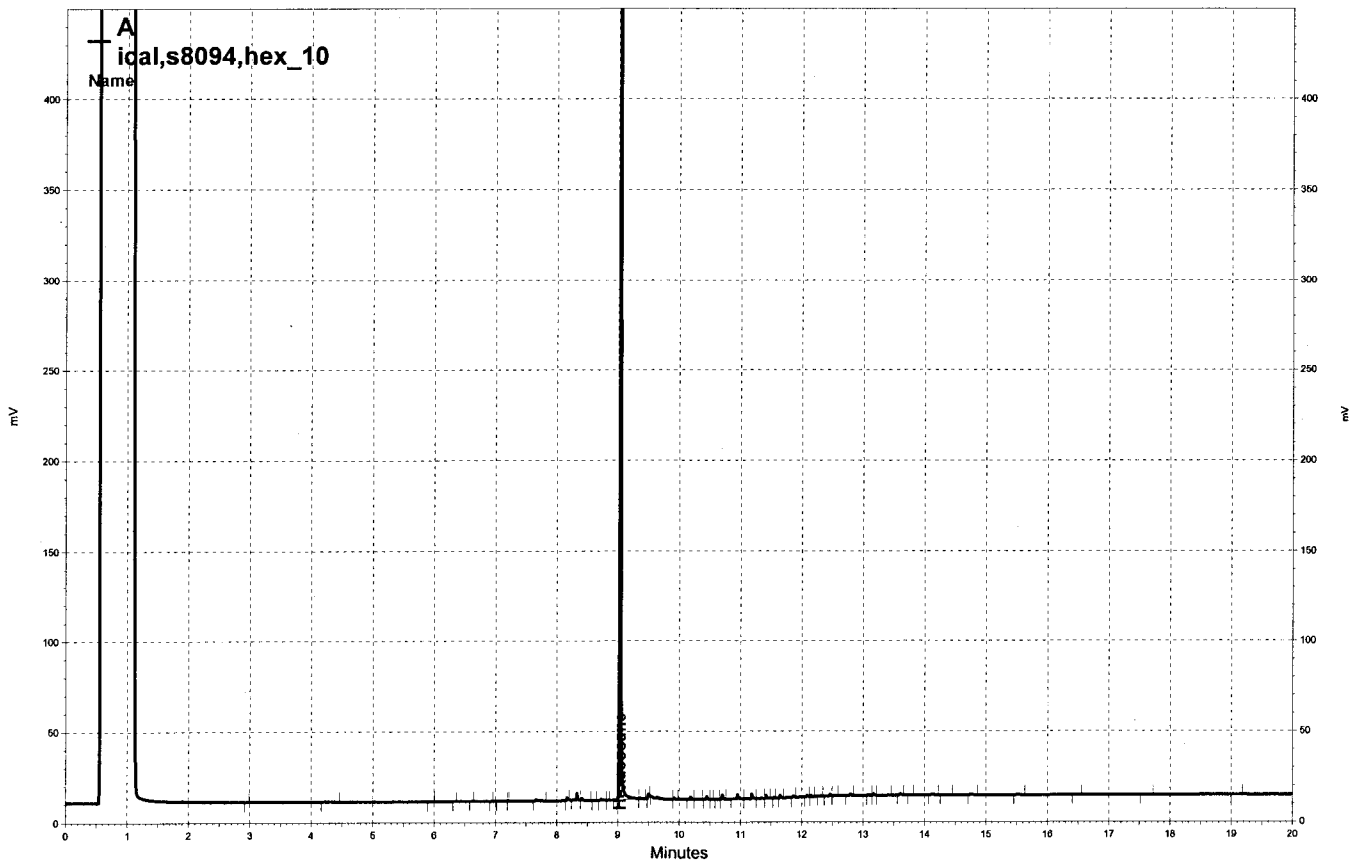
No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.98	9.257	0



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a008, A

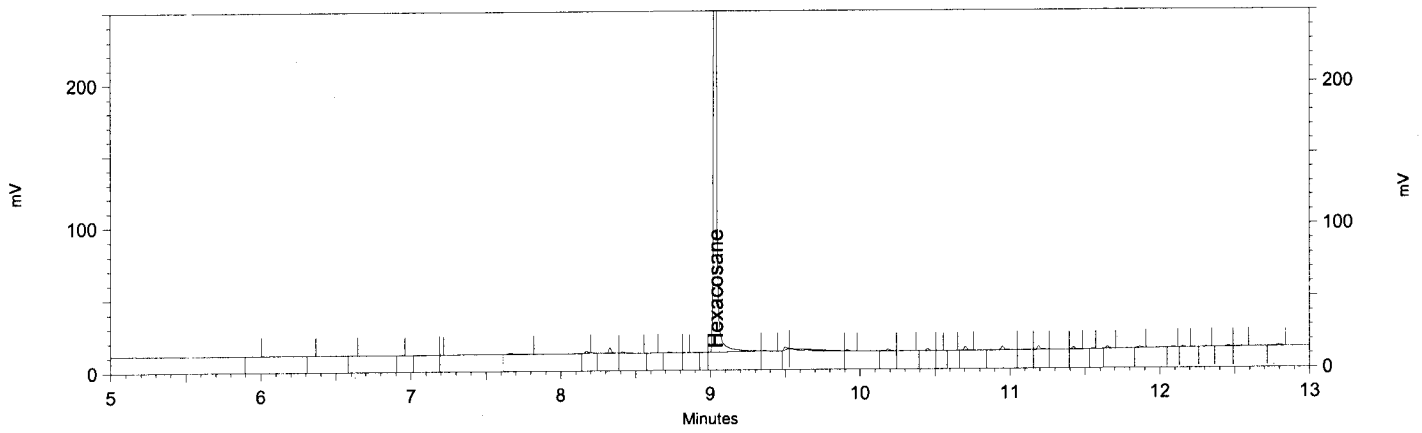
Sample Name: **ical,s8094,hex_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur024.met
Run Date: 1/24/2008 2:04:34 PM
Analysis Date: 1/25/2008 11:02:00 AM
Instrument: GC17A Vial: 8 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.037	652765	10.000 CAL



---< General Method Parameters >---

No items selected for this section

---< A >---

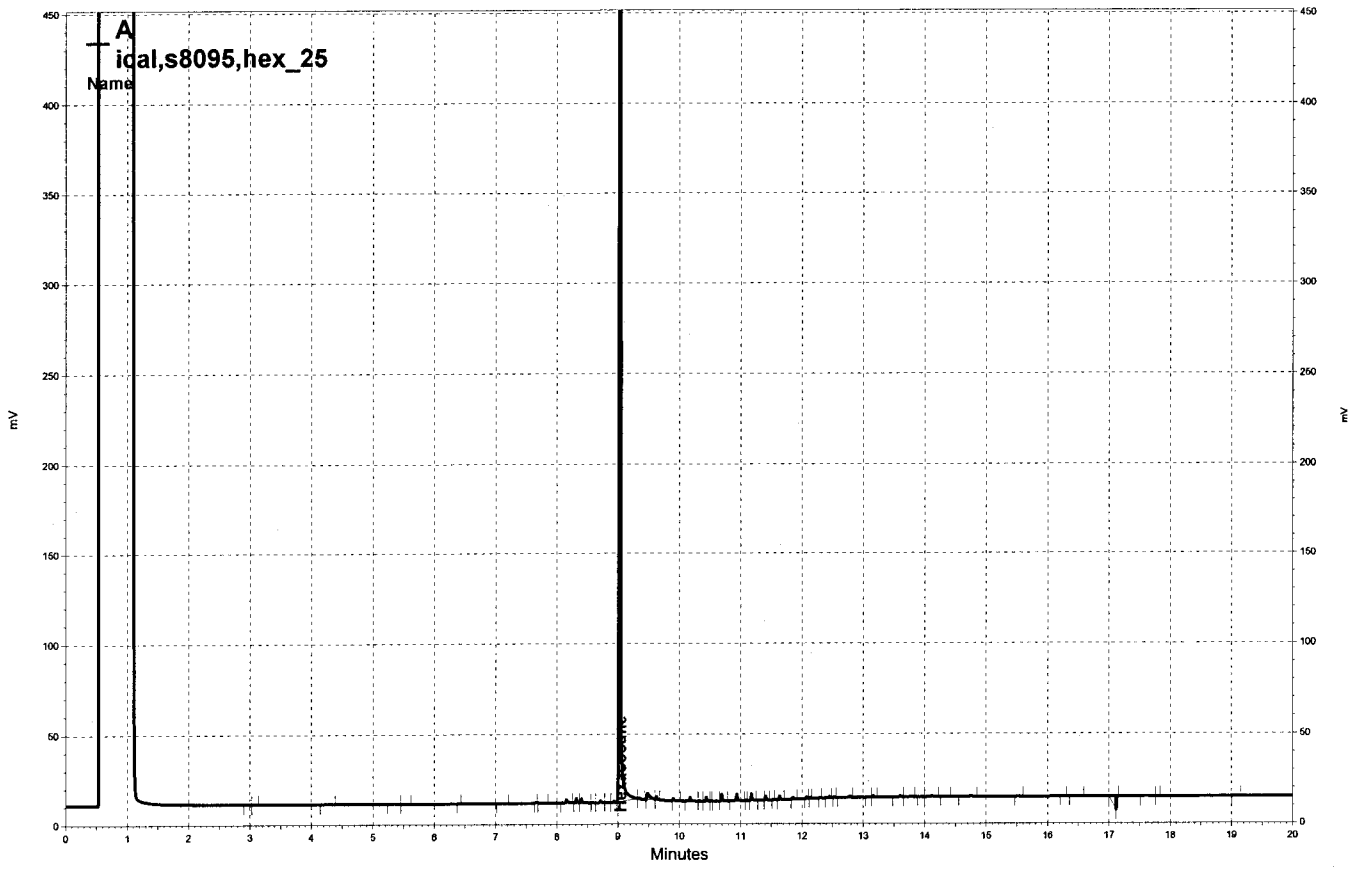
No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a009, A

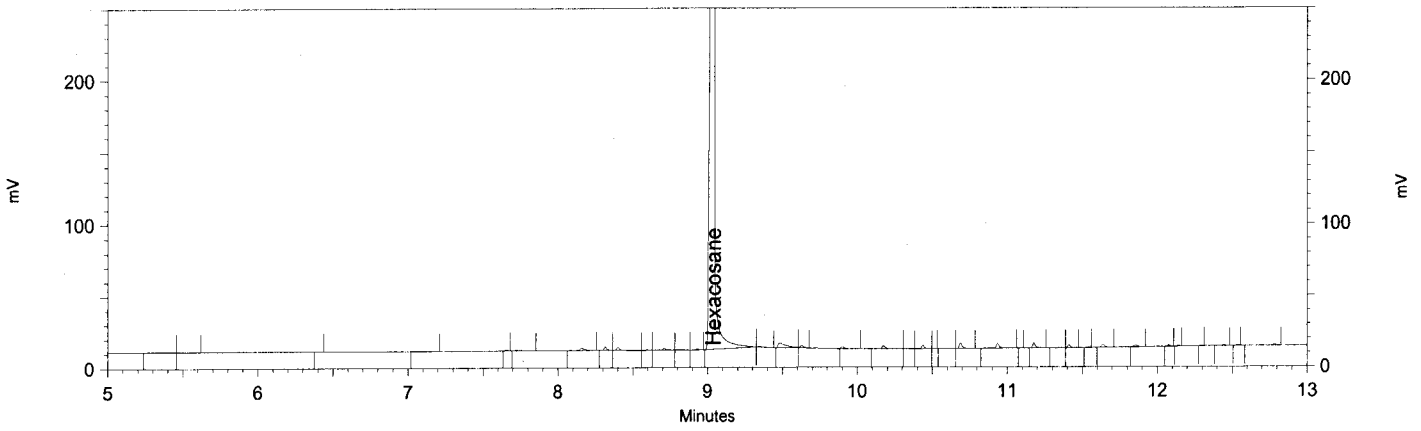
Sample Name: **ical,s8095,hex_25**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur024.met
Run Date: 1/24/2008 2:32:00 PM
Analysis Date: 1/25/2008 11:02:04 AM
Instrument: GC17A Vial: 9 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.038	1654360	25.000 CAL



---< General Method Parameters >---

No items selected for this section

---< A >---

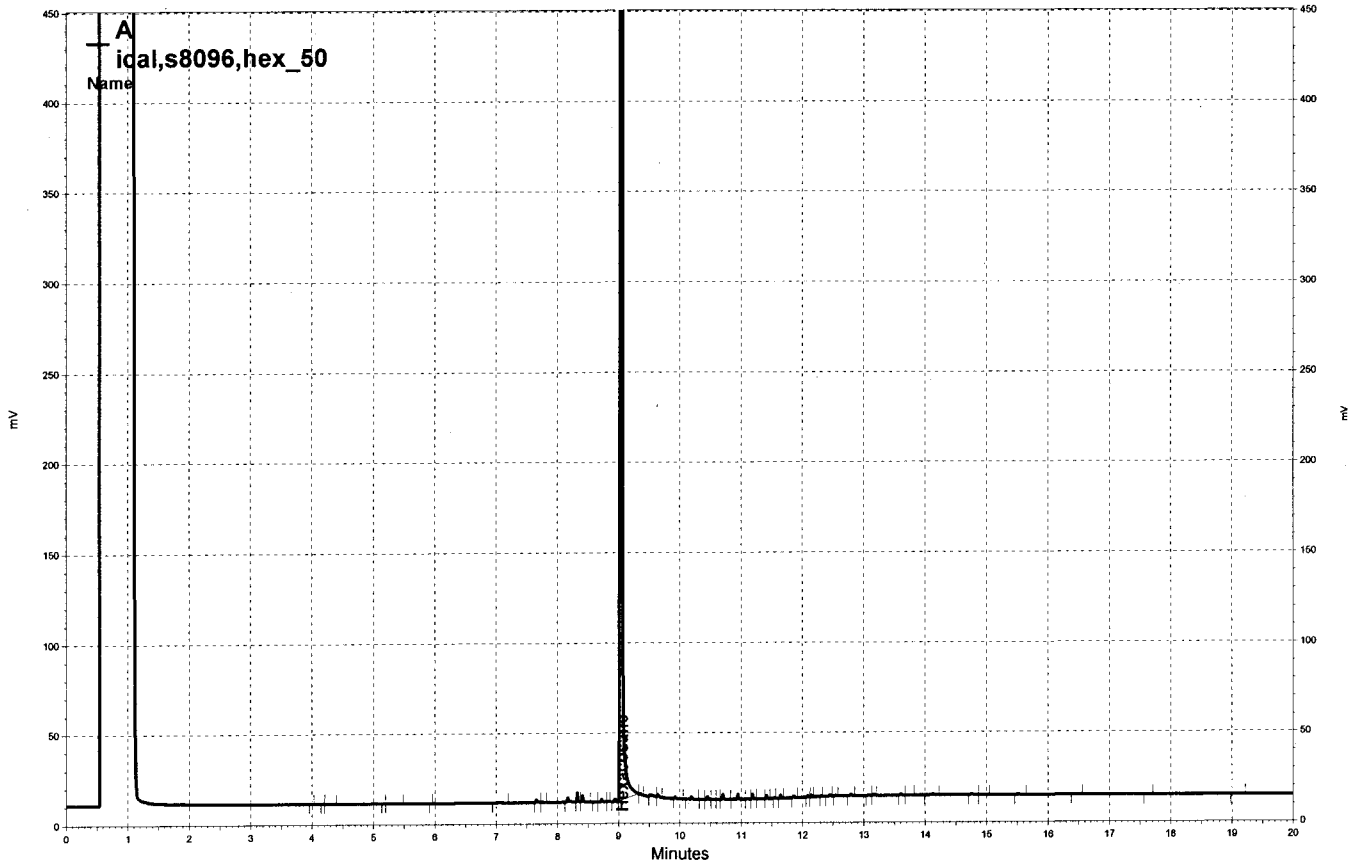
No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a010, A

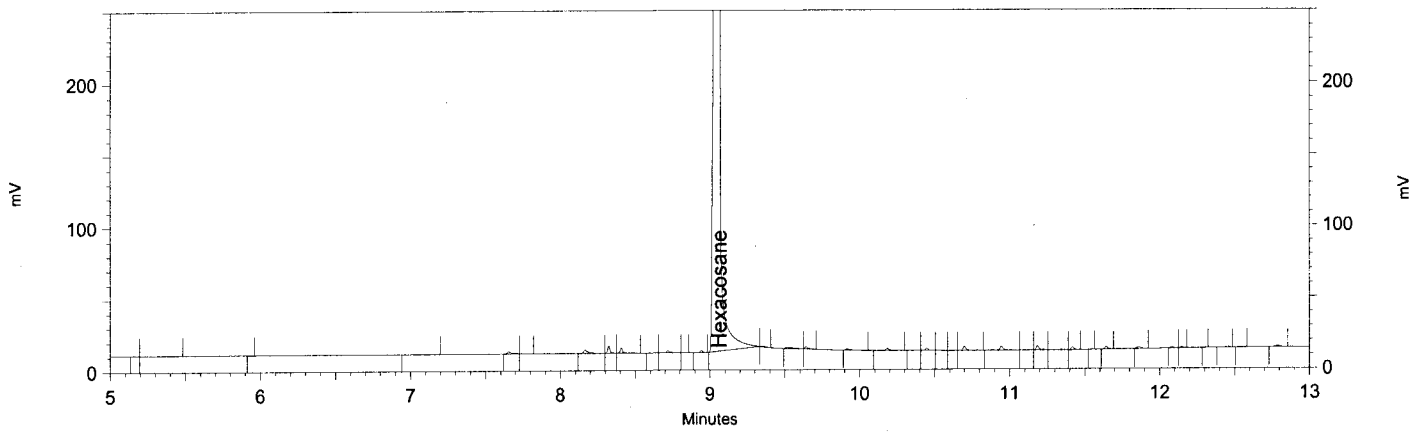
Sample Name: **ical,s8096,hex_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur024.met
Run Date: 1/24/2008 2:59:21 PM
Analysis Date: 1/25/2008 11:02:08 AM
Instrument: GC17A Vial: 10 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.062	3266202	50.000 CAL



---< General Method Parameters >---

No items selected for this section

---< A >---

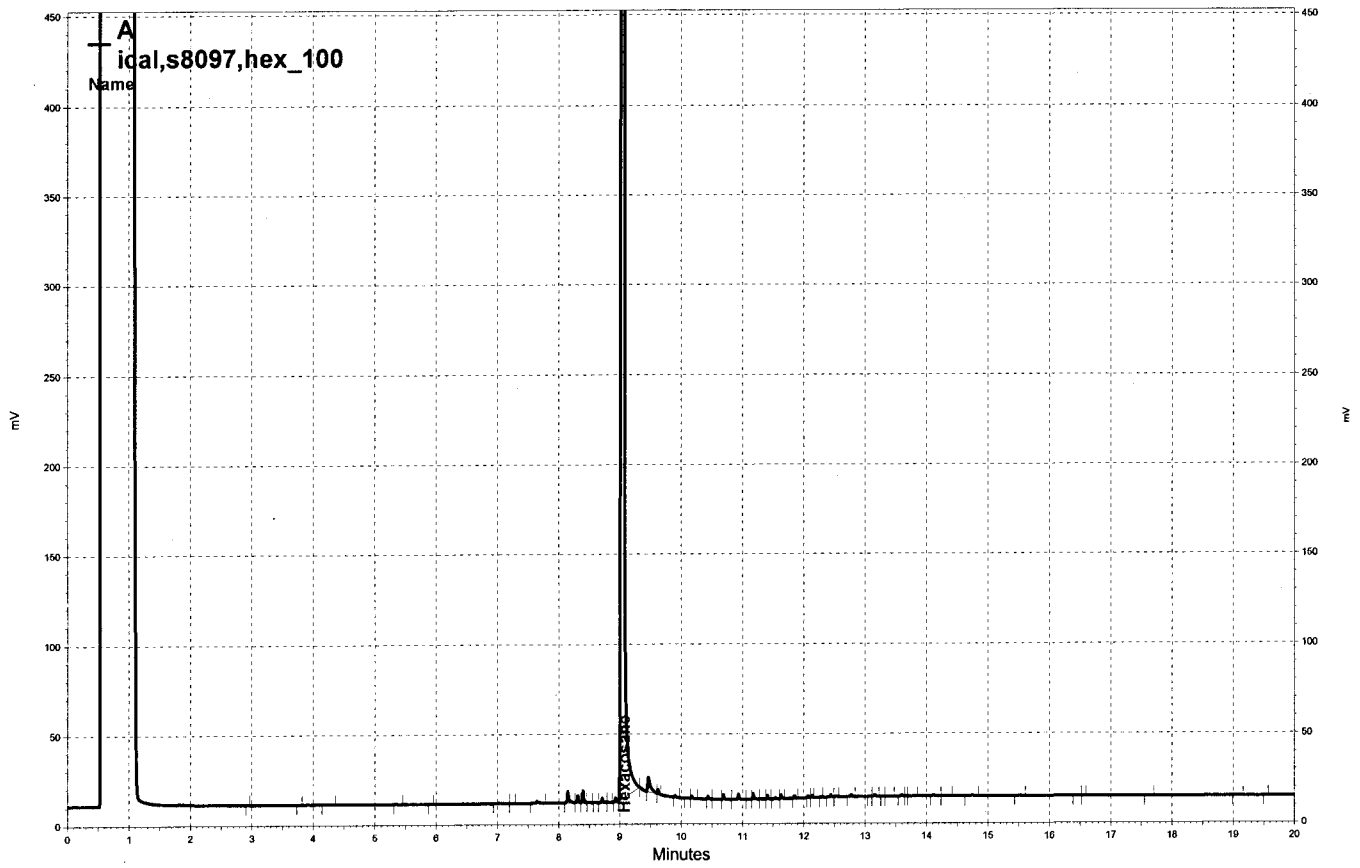
No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a011, A

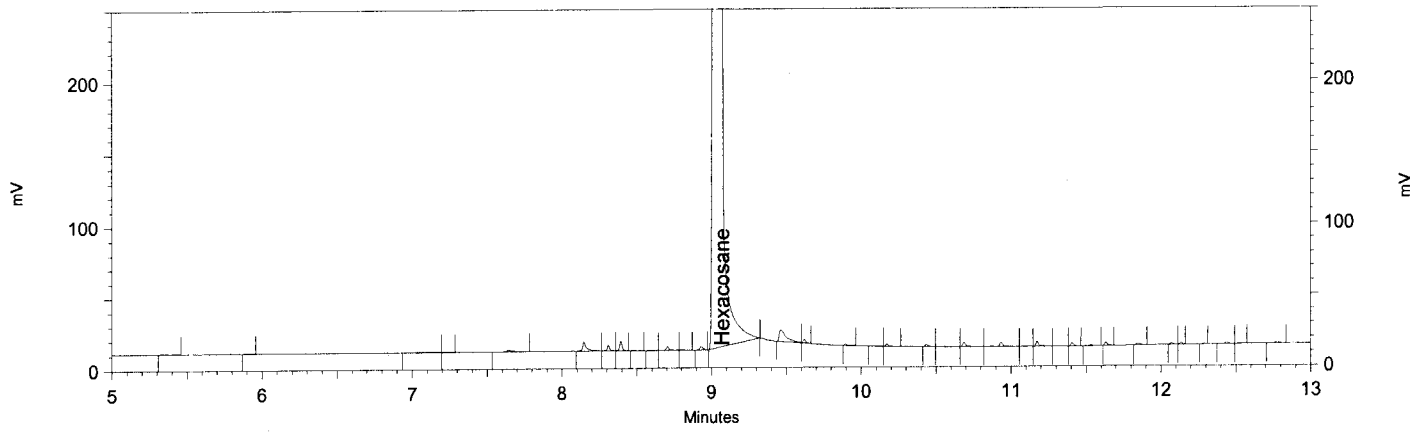
Sample Name: **ical,s8097,hex_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur024.met
Run Date: 1/24/2008 3:26:45 PM
Analysis Date: 1/25/2008 11:02:12 AM
Instrument: GC17A Vial: 11 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.070	6586457	100.000 CAL



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 GCSV Soil: EPA 8015B

Inst : GC17A
Calnum : 178035189002
Units : mg/L

Name : MO_024
Date : 24-JAN-2008 16:49
X Axis : R

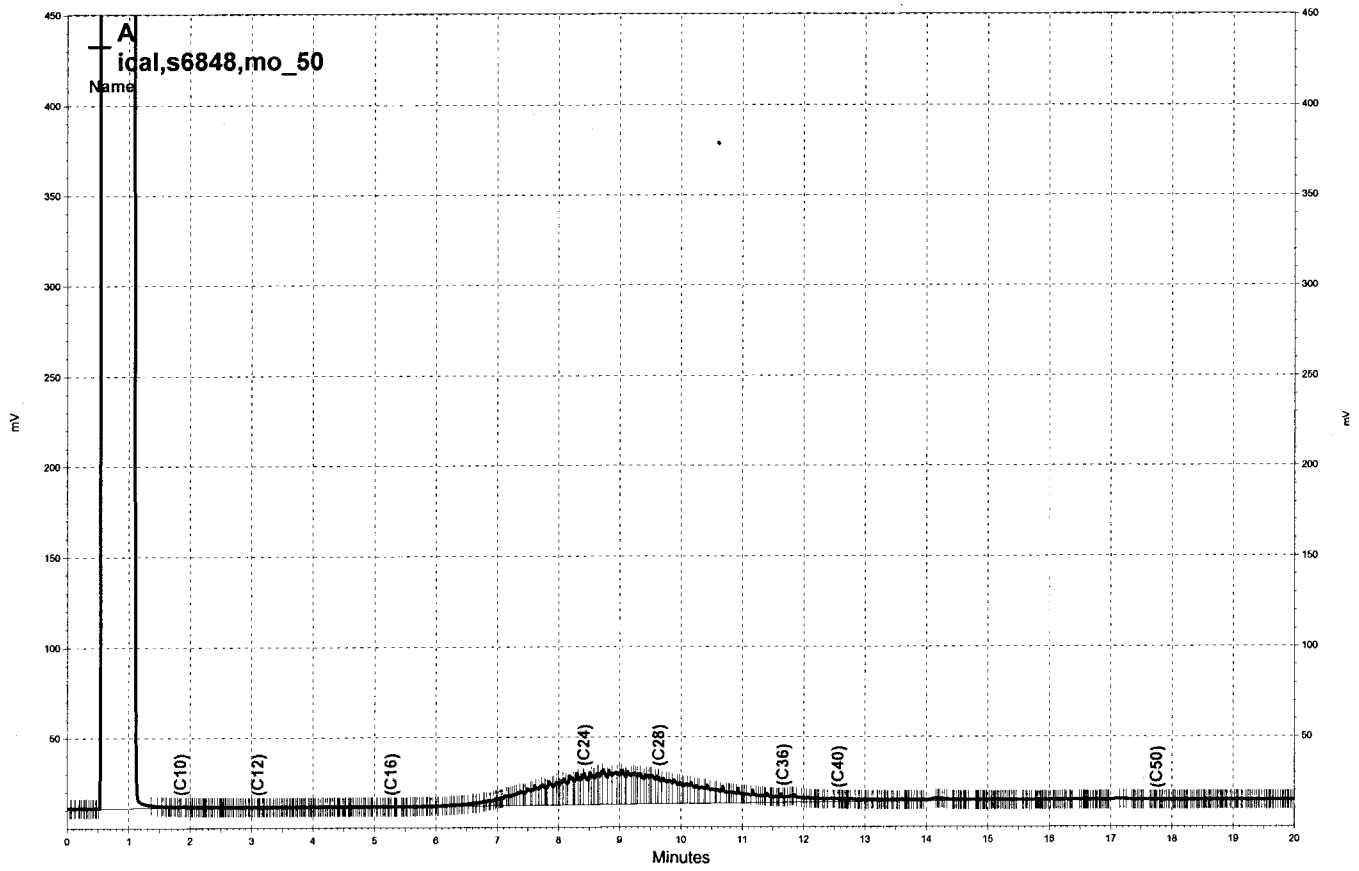
Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a014	178035189014	MO_50	24-JAN-2008 16:49	S6848
L2	024a016	178035189016	MO_500	24-JAN-2008 17:44	S6850
L3	024a017	178035189017	MO_1000	24-JAN-2008 18:11	S6851
L4	024a018	178035189018	MO_5000	24-JAN-2008 18:38	S6846
L5	024a019	178035189019	MO_7500	24-JAN-2008 19:06	S6847
L6	024a022	178035189022	MO_250	25-JAN-2008 12:03	S6849

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	41900	45900	44141	41943	40193	51101	AVRG		2.26E-5		44196	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-5	500.0	4	1000	0	5000	-5	7500	-9	250.0	16

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a014, A

Sample Name: **ical,s6848,mo_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 4:49:17 PM
Analysis Date: 1/25/2008 1:08:22 PM
Instrument: GC17A Vial: 14 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	22363	0.000 CAL
JP8:10-16	22363	0.000 CAL
KER:10-16	22363	0.000 CAL
JP5:10-16	22363	0.000 CAL
DSL:10-20	99699	0.000 CAL
DSL:10-22	403525	0.000 CAL
DSL:10-24	920619	0.000 CAL
DSL:12-22	389850	0.000 CAL
DSL:10-28	2147983	0.000 CAL
DSL:12-24	906944	0.000 CAL
DSL:12-32	2751212	0.000 CAL
BUNKC:12-40	3130337	0.000 CAL
HYFL:12-40	3130337	0.000 CAL
MO:22-32	2361362	50.000 CAL
MO:20-36	2915942	50.000 CAL
MO:22-36	2612116	50.000 CAL
MO:24-36	2095022	50.000 CAL
BUNKC:12-50	3299183	0.000 CAL
MO:28-36	867658	50.000 CAL
MO:28-40	996029	50.000 CAL
DSL:10-12	13675	0.000 CAL
DSL:12-16	8688	0.000 CAL
DSL:16-24	898256	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

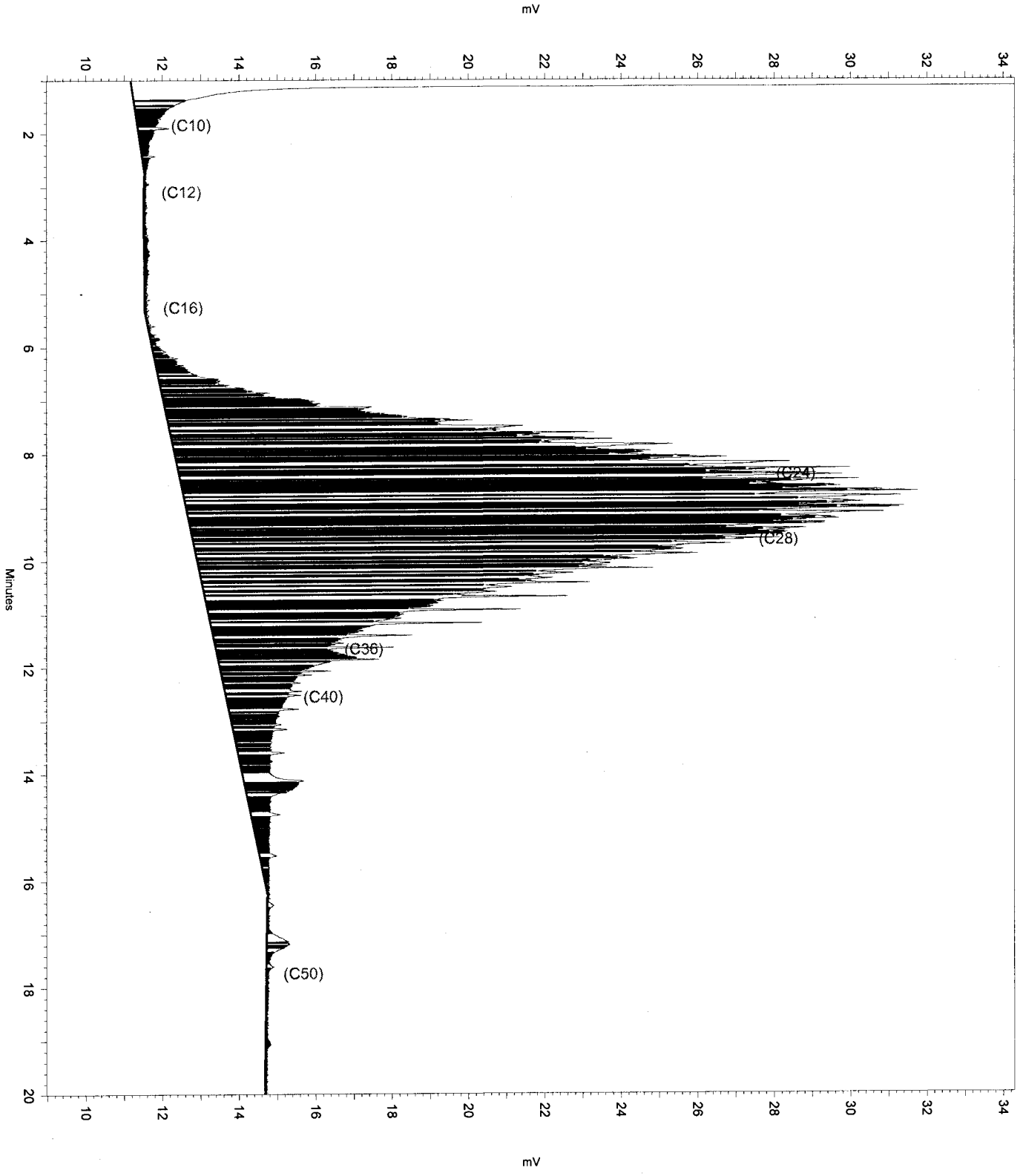
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a014

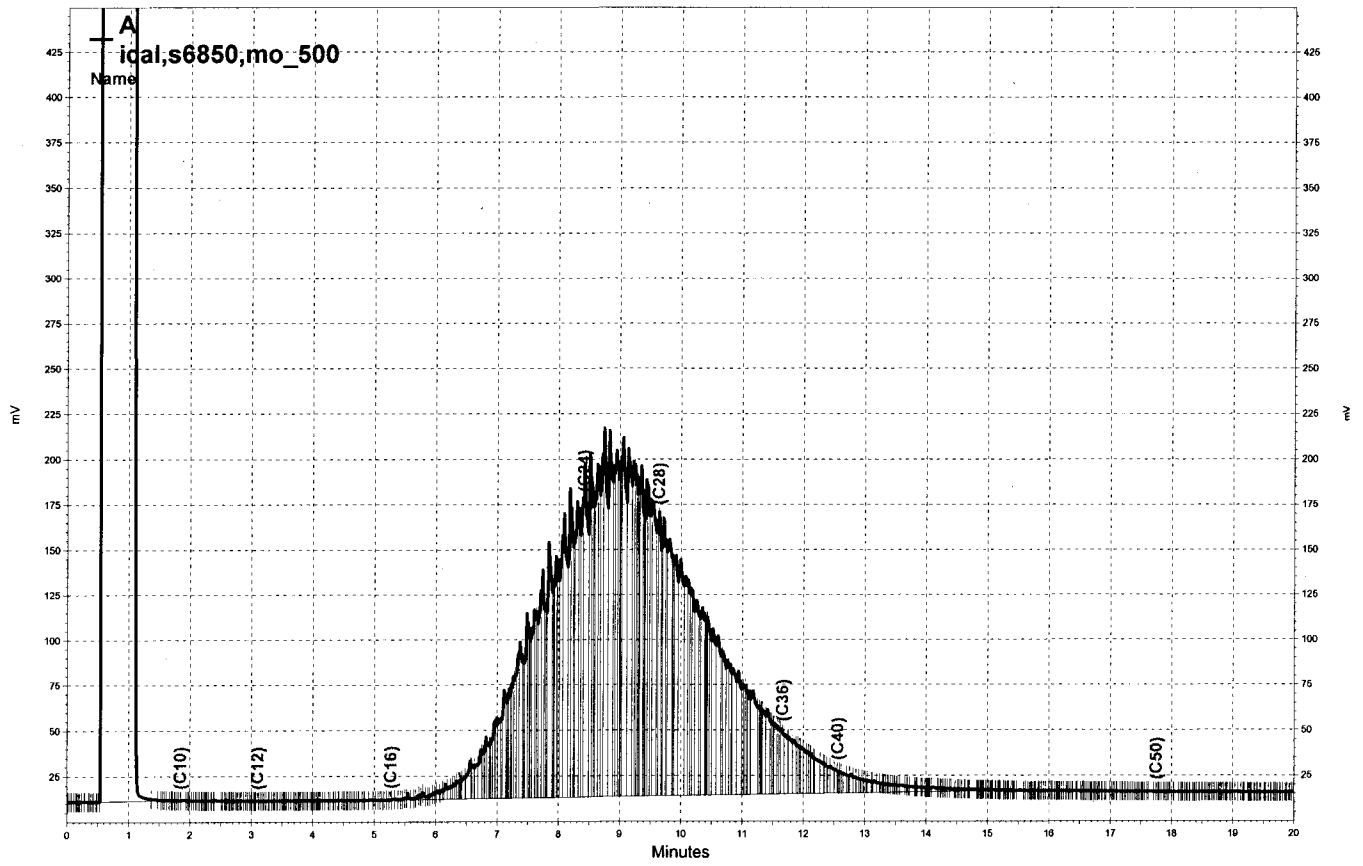
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s6848,mo_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 4:49:17 PM
Analysis Date: 1/25/2008 1:08:22 PM
Instrument: GC17A Vial: 14 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



 Curtis & Tompkins Ltd.

: 00254



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a016, A

Sample Name: **ical,s6850,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a016**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 5:44:15 PM
Analysis Date: 1/25/2008 1:08:39 PM
Instrument: GC17A Vial: 16 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	14633	0.000 CAL
JP8:10-16	14633	0.000 CAL
KER:10-16	14633	0.000 CAL
JP5:10-16	14633	0.000 CAL
DSL:10-20	918472	0.000 CAL
DSL:10-22	4204007	0.000 CAL
DSL:10-24	9506009	0.000 CAL
DSL:12-22	4198747	0.000 CAL
DSL:10-28	22100844	0.000 CAL
DSL:12-24	9500749	0.000 CAL
DSL:12-32	29503416	0.000 CAL
BUNKC:12-40	33528352	0.000 CAL
HYFL:12-40	33528352	0.000 CAL
MO:22-32	25304672	500.000 CAL
MO:20-36	31537390	500.000 CAL
MO:22-36	28251858	500.000 CAL
MO:24-36	22949858	500.000 CAL
BUNKC:12-50	34028568	0.000 CAL
MO:28-36	10355023	500.000 CAL
MO:28-40	11432774	500.000 CAL
DSL:10-12	5260	0.000 CAL
DSL:12-16	9373	0.000 CAL
DSL:16-24	9491376	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

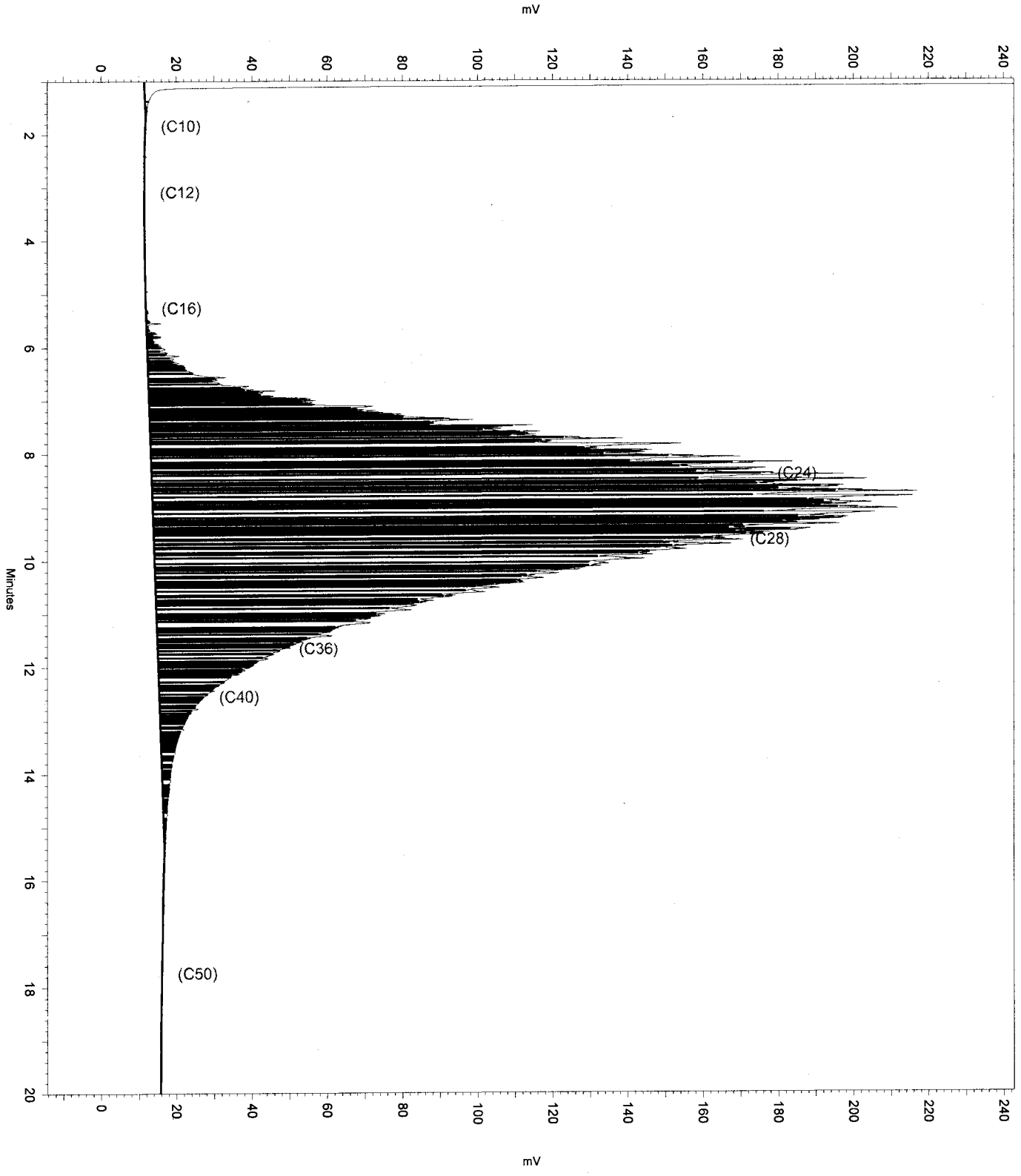
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.432	15.423	0

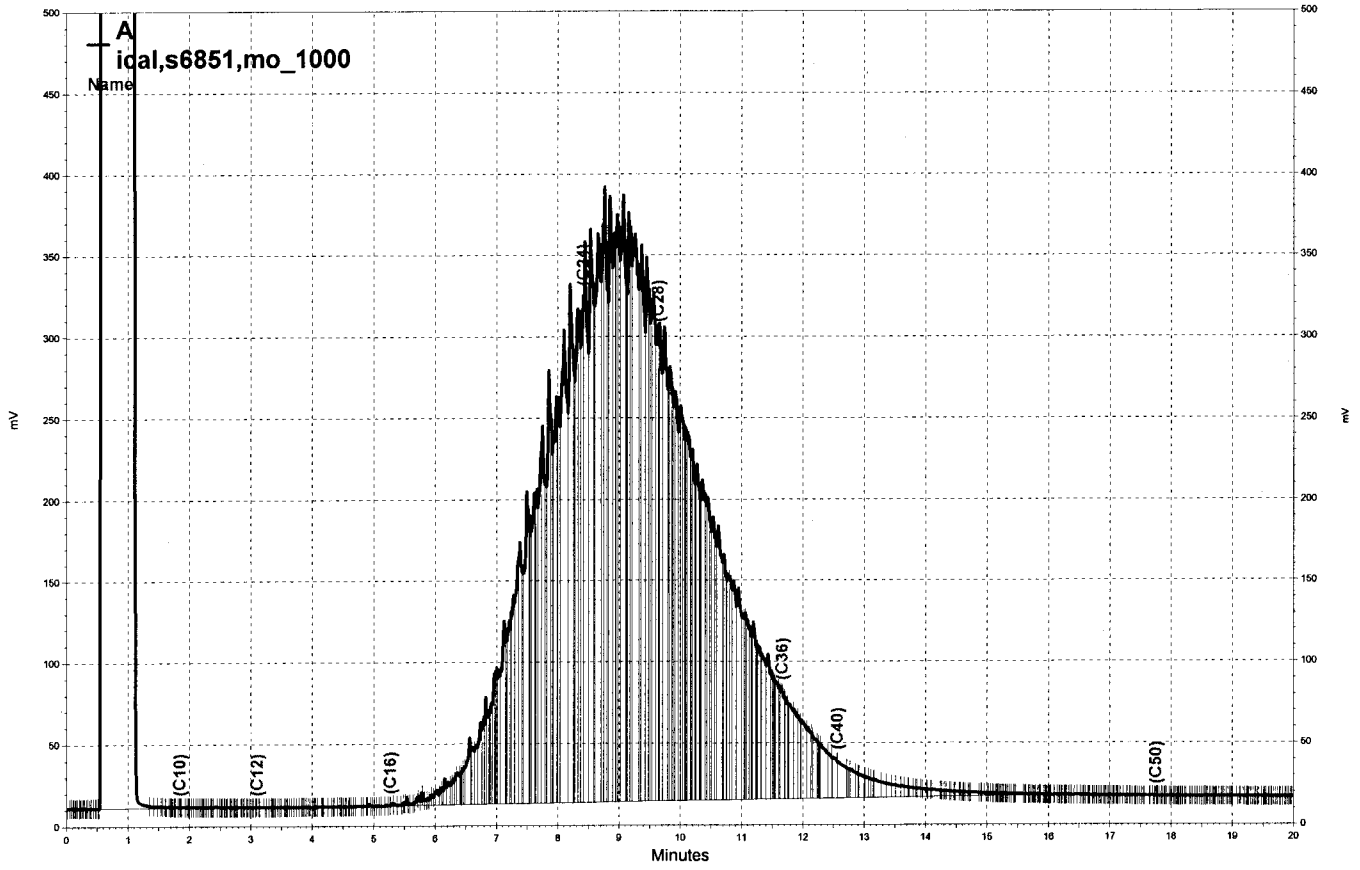
: 00256

Sample Name: **ical,s6850,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a016**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 5:44:15 PM
Analysis Date: 1/25/2008 1:08:39 PM
Instrument: GC17A Vial: 16 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



 Curtis & Tompkins Ltd.

: 00257



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a017, A

Sample Name: **ical,s6851,mo_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 6:11:35 PM
Analysis Date: 1/25/2008 1:09:12 PM
Instrument: GC17A Vial: 17 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	31191	0.000 CAL
JP8:10-16	31191	0.000 CAL
KER:10-16	31191	0.000 CAL
JP5:10-16	31191	0.000 CAL
DSL:10-20	1778069	0.000 CAL
DSL:10-22	7410479	0.000 CAL
DSL:10-24	17707678	0.000 CAL
DSL:12-22	7390896	0.000 CAL
DSL:10-28	42204416	0.000 CAL
DSL:12-24	17688094	0.000 CAL
DSL:12-32	56236456	0.000 CAL
BUNKC:12-40	63811120	0.000 CAL
HYFL:12-40	63811120	0.000 CAL
MO:22-32	48845568	1000.000 CAL
MO:20-36	60070124	1000.000 CAL
MO:22-36	54437716	1000.000 CAL
MO:24-36	44140516	1000.000 CAL
BUNKC:12-50	64925948	0.000 CAL
MO:28-36	19643768	1000.000 CAL
MO:28-40	21626284	1000.000 CAL
DSL:10-12	19583	0.000 CAL
DSL:12-16	11608	0.000 CAL
DSL:16-24	17676486	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

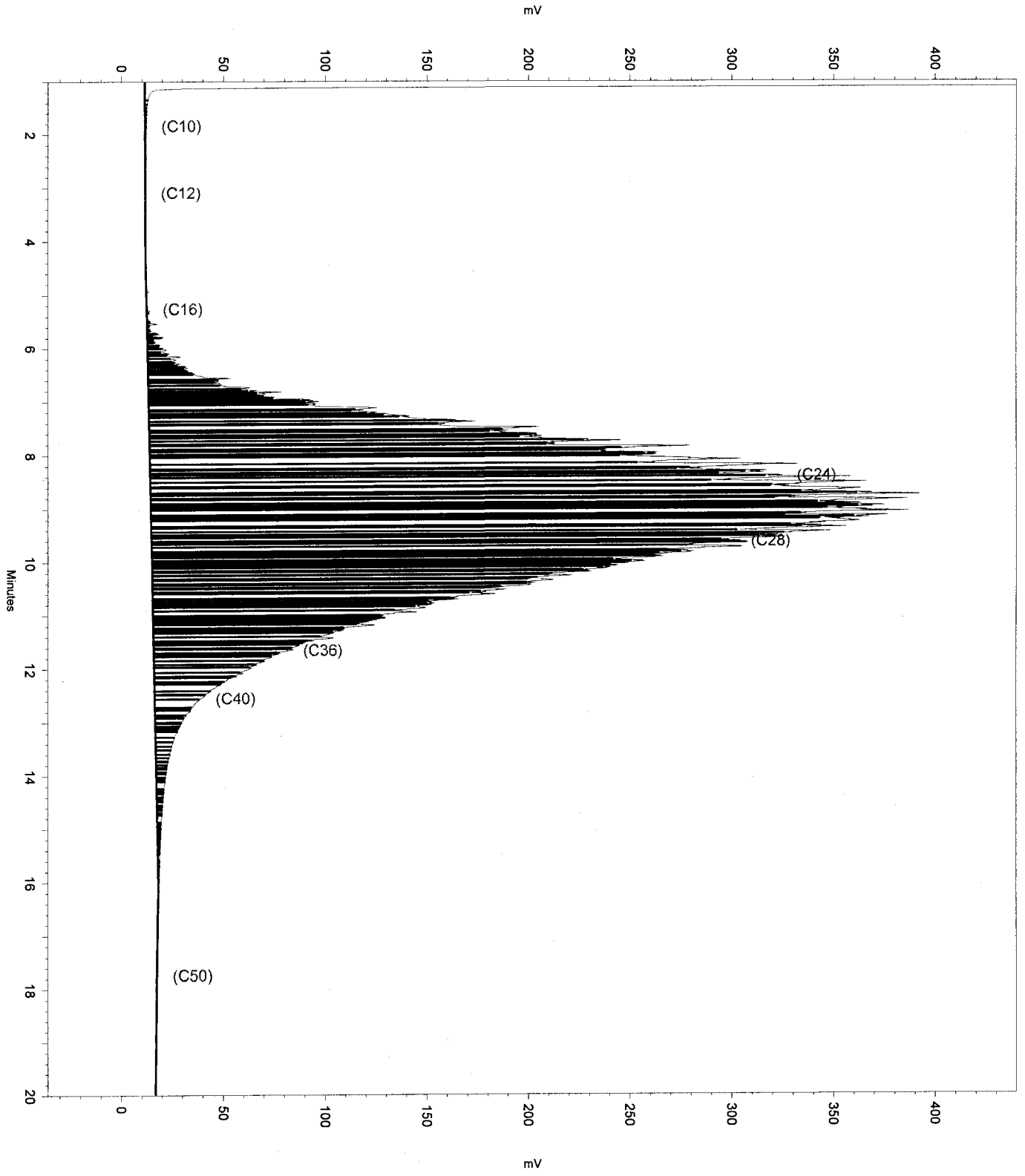
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.442	16.147	0

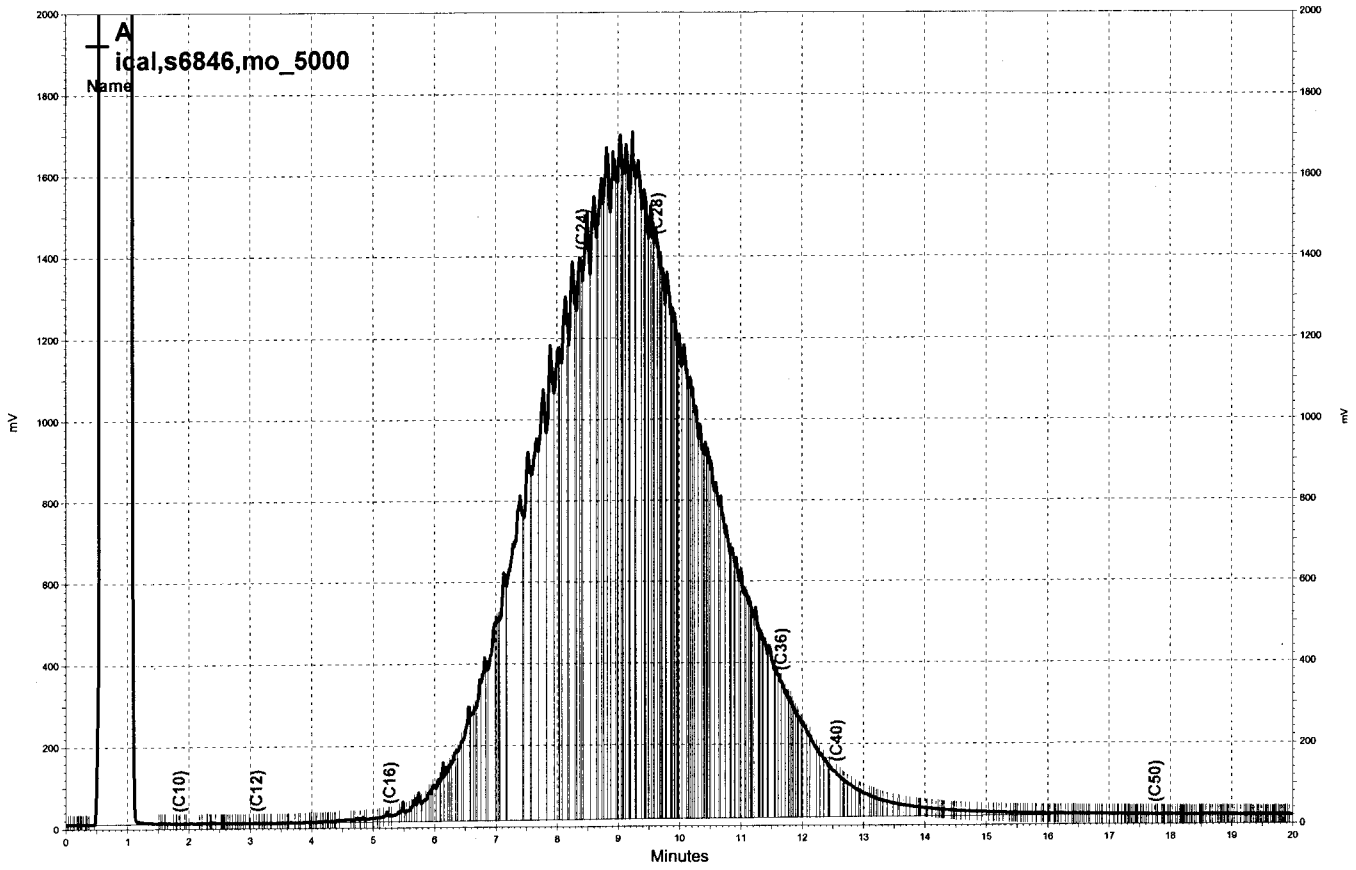
00259

Sample Name: **ical,s6851,mo_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 6:11:35 PM
Analysis Date: 1/25/2008 1:09:12 PM
Instrument: GC17A Vial: 17 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: **1** PDF: 1



 Curtis & Tompkins Ltd.

: 00250



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a018, A

Sample Name: **ical,s6846,mo_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 6:38:58 PM
Analysis Date: 1/25/2008 1:09:29 PM
Instrument: GC17A Vial: 18 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	574438	0.000 CAL
JP8:10-16	574438	0.000 CAL
KER:10-16	574438	0.000 CAL
JP5:10-16	574438	0.000 CAL
DSL:10-20	13506148	0.000 CAL
DSL:10-22	46453456	0.000 CAL
DSL:10-24	97201688	0.000 CAL
DSL:12-22	46402052	0.000 CAL
DSL:10-28	209330512	0.000 CAL
DSL:12-24	97150288	0.000 CAL
DSL:12-32	278866272	0.000 CAL
BUNKC:12-40	318421344	0.000 CAL
HYFL:12-40	318421344	0.000 CAL
MO:22-32	232464256	5000.000 CAL
MO:20-36	293411872	5000.000 CAL
MO:22-36	260464608	5000.000 CAL
MO:24-36	209716352	5000.000 CAL
BUNKC:12-50	323633920	0.000 CAL
MO:28-36	97587496	5000.000 CAL
MO:28-40	109142160	5000.000 CAL
DSL:10-12	51402	0.000 CAL
DSL:12-16	523036	0.000 CAL
DSL:16-24	96627248	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

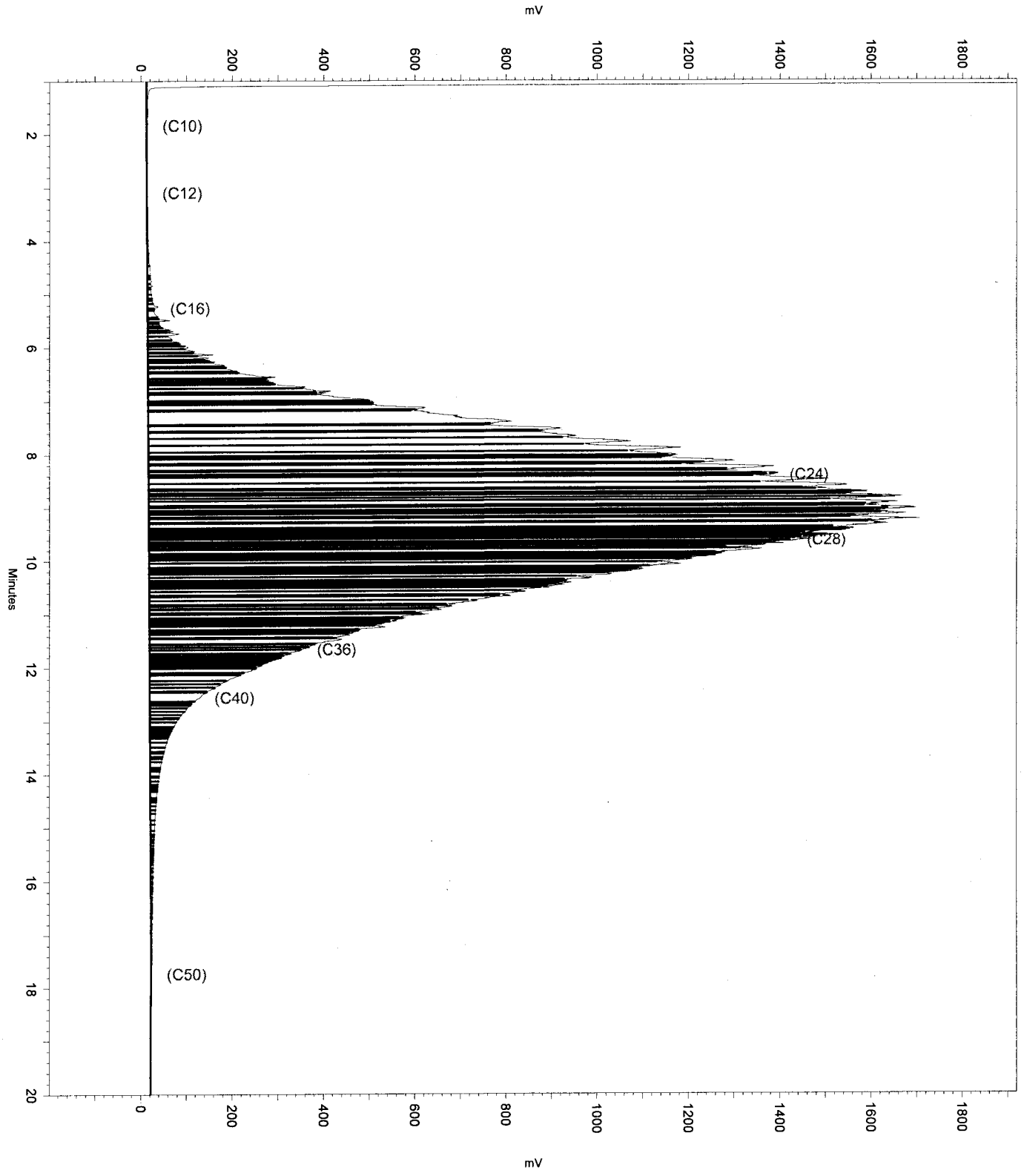
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a018

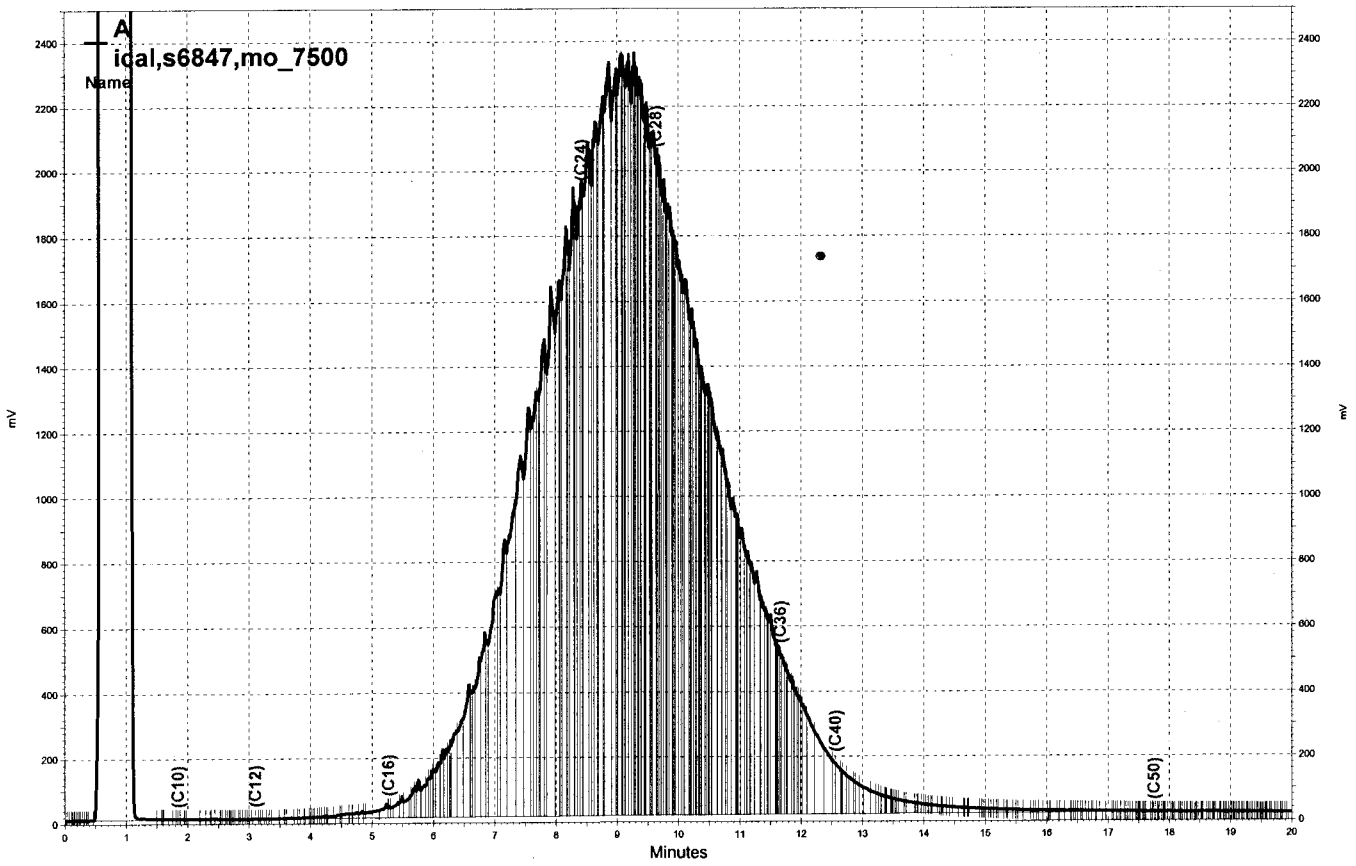
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	15.245	17.699	0

: 00252

Sample Name: **ical,s6846,mo_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 6:38:58 PM
Analysis Date: 1/25/2008 1:09:29 PM
Instrument: GC17A Vial: 18 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: **1** PDF: 1



 Curtis & Tompkins Ltd.



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a019, A

Sample Name: **ical,s6847,mo_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 7:06:18 PM
Analysis Date: 1/25/2008 1:09:44 PM
Instrument: GC17A Vial: 19 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	889634	0.000 CAL
JP8:10-16	889634	0.000 CAL
KER:10-16	889634	0.000 CAL
JP5:10-16	889634	0.000 CAL
DSL:10-20	20563956	0.000 CAL
DSL:10-22	66832760	0.000 CAL
DSL:10-24	132471816	0.000 CAL
DSL:12-22	66773440	0.000 CAL
DSL:10-28	293352288	0.000 CAL
DSL:12-24	132412504	0.000 CAL
DSL:12-32	394034752	0.000 CAL
BUNKC:12-40	447087264	0.000 CAL
HYFL:12-40	447087264	0.000 CAL
MO:22-32	327261280	7500.000 CAL
MO:20-36	413358624	7500.000 CAL
MO:22-36	367089824	7500.000 CAL
MO:24-36	301450848	7500.000 CAL
BUNKC:12-50	454192192	0.000 CAL
MO:28-36	140570400	7500.000 CAL
MO:28-40	153794352	7500.000 CAL
DSL:10-12	59318	0.000 CAL
DSL:12-16	830316	0.000 CAL
DSL:16-24	131582184	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

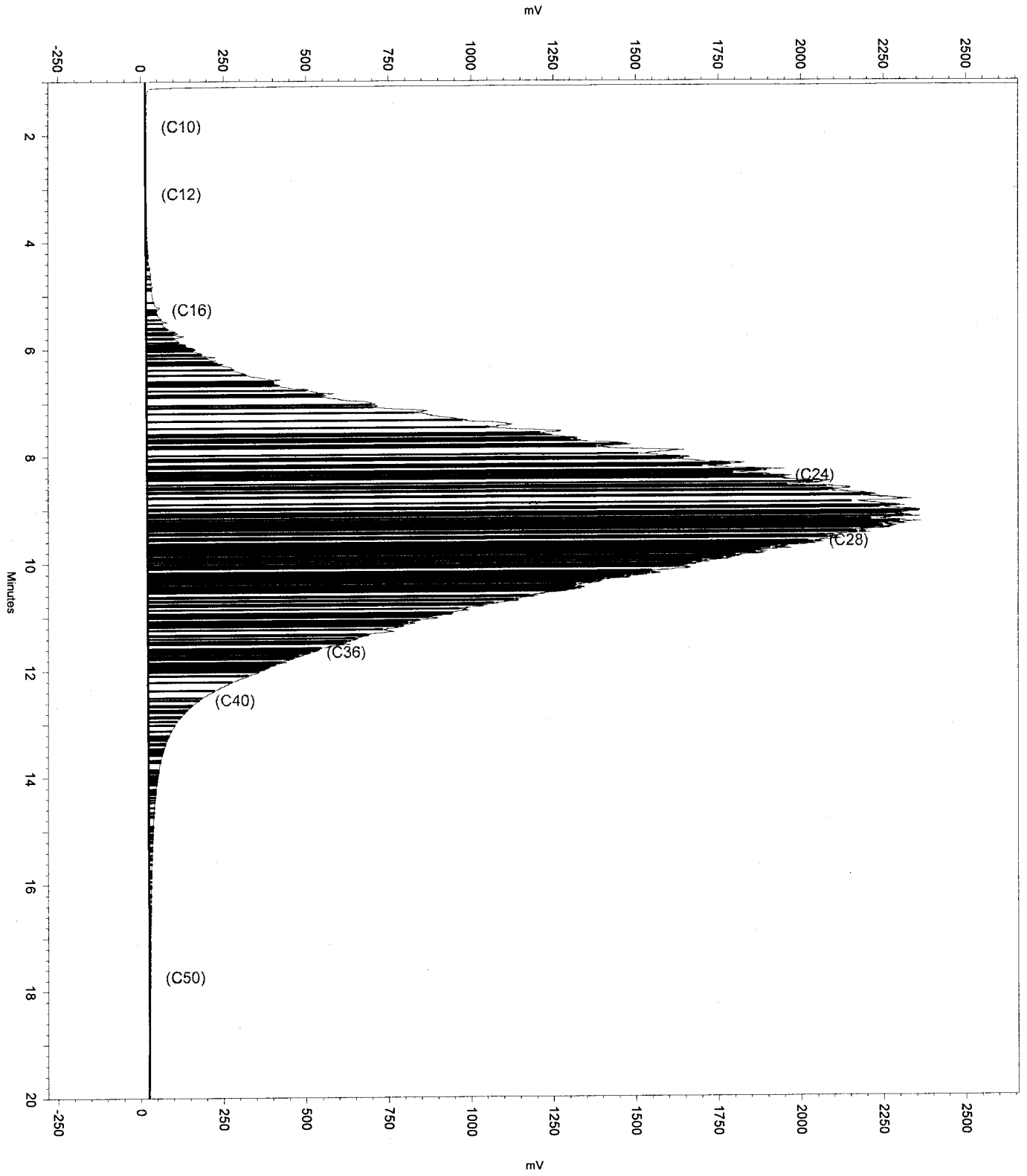
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a019

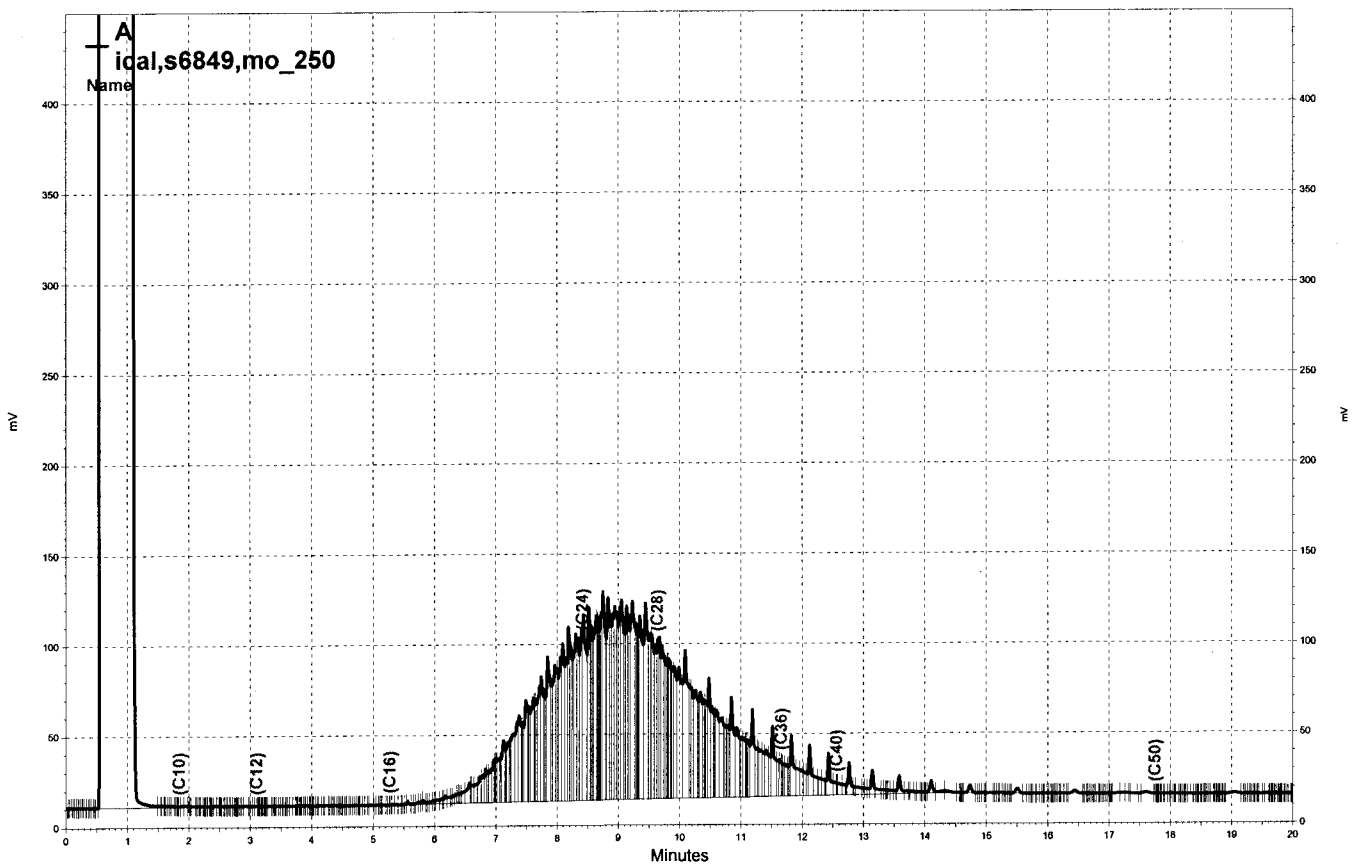
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	3.357	18.369	0

88255

Sample Name: **ical,s6847,mo_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/24/2008 7:06:18 PM
Analysis Date: 1/25/2008 1:09:44 PM
Instrument: GC17A Vial: 19 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



 Curtis & Tompkins Ltd.



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a022, A

Sample Name: **ical,s6849,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a022**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/25/2008 12:03:35 PM
Analysis Date: 1/25/2008 1:10:04 PM
Instrument: GC17A Vial: 22 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	36500	0.000 CAL
JP8:10-16	36500	0.000 CAL
KER:10-16	36500	0.000 CAL
JP5:10-16	36500	0.000 CAL
DSL:10-20	549836	0.000 CAL
DSL:10-22	2394306	0.000 CAL
DSL:10-24	5495773	0.000 CAL
DSL:12-22	2371248	0.000 CAL
DSL:10-28	12530416	0.000 CAL
DSL:12-24	5472715	0.000 CAL
DSL:12-32	16561937	0.000 CAL
BUNKC:12-40	18939548	0.000 CAL
HYFL:12-40	18939548	0.000 CAL
MO:22-32	14190689	250.000 CAL
MO:20-36	17721104	250.000 CAL
MO:22-36	15876635	250.000 CAL
MO:24-36	12775168	250.000 CAL
BUNKC:12-50	19342568	0.000 CAL
MO:28-36	5740525	250.000 CAL
MO:28-40	6432189	250.000 CAL
DSL:10-12	23058	0.000 CAL
DSL:12-16	13442	0.000 CAL
DSL:16-24	5459273	0.000 CAL

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

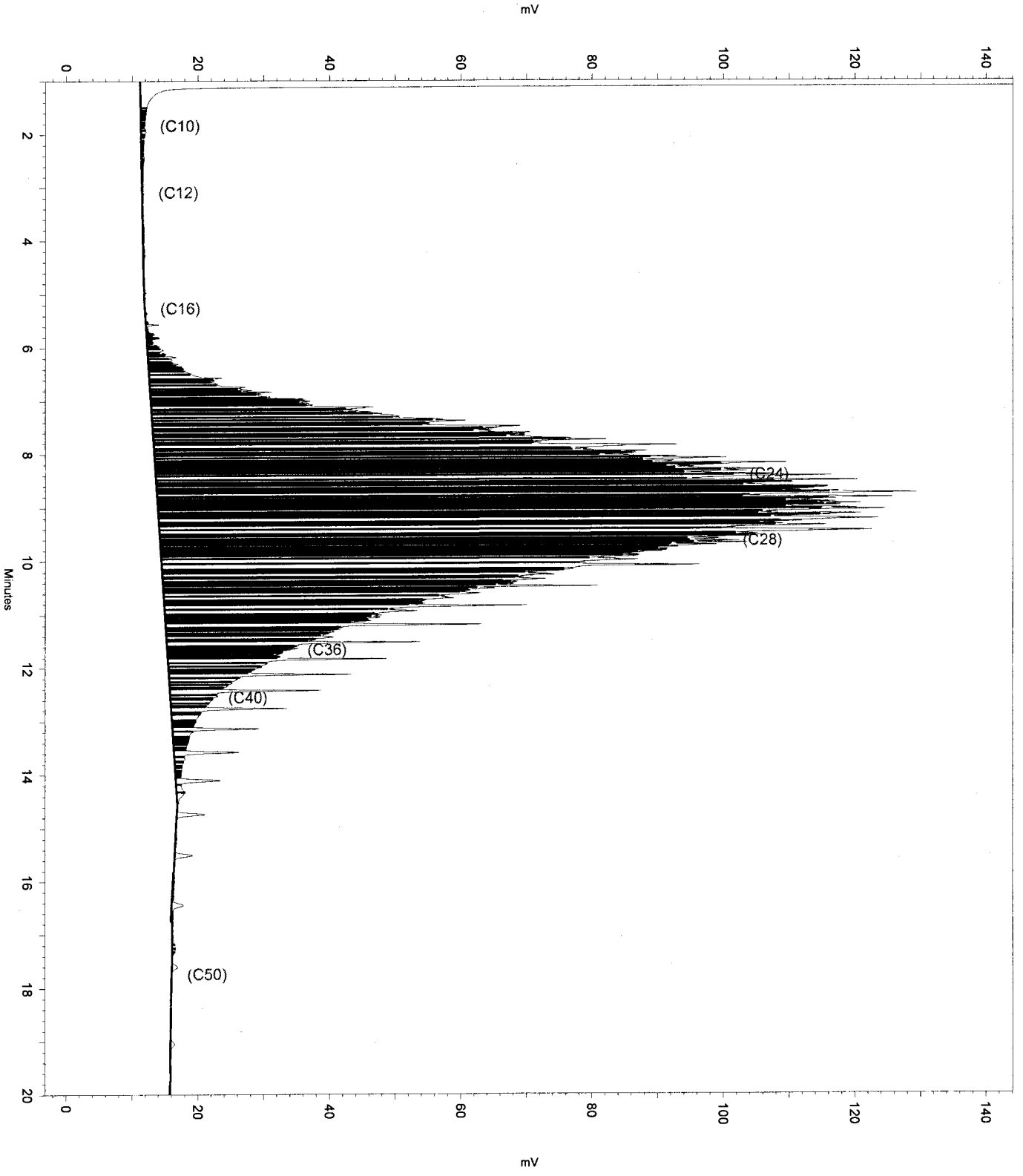
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	14.007	5.145	0

: 00268

Sample Name: **ical,s6849,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a022**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh024.met
Run Date: 1/25/2008 12:03:35 PM
Analysis Date: 1/25/2008 1:10:04 PM
Instrument: GC17A Vial: 22 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: **1** PDF: 1



 Curtis & Tompkins Ltd.

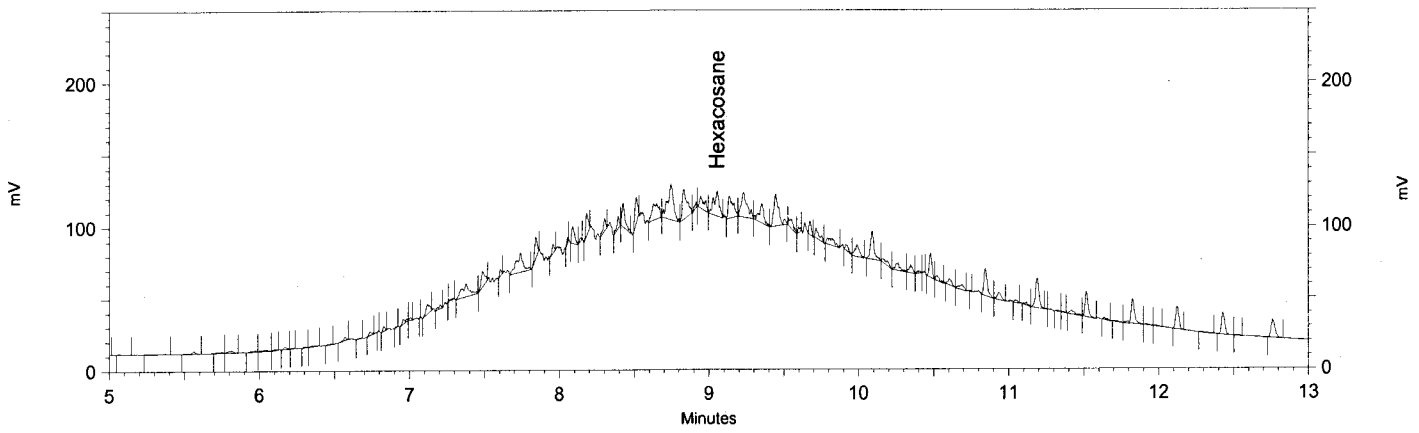
Sample Name: **ical,s6849,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\024a022**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\024.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur023.met
Run Date: 1/25/2008 12:03:35 PM
Analysis Date: 1/25/2008 12:23:44 PM
Instrument: GC17A Vial: 22 Operator: lims2k3\teh3
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.053	42043	0.710



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

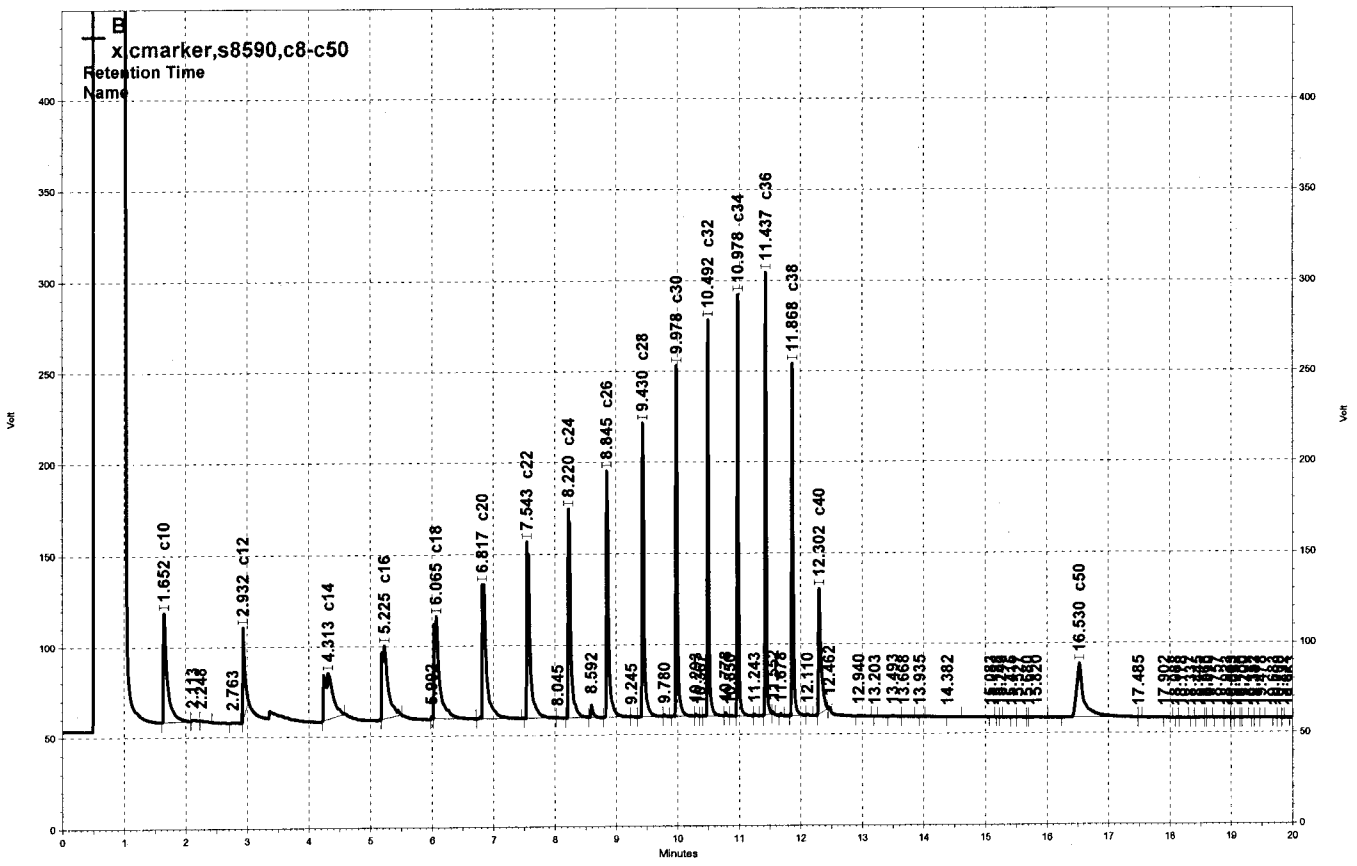
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\024a022_29D1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\073b002, B

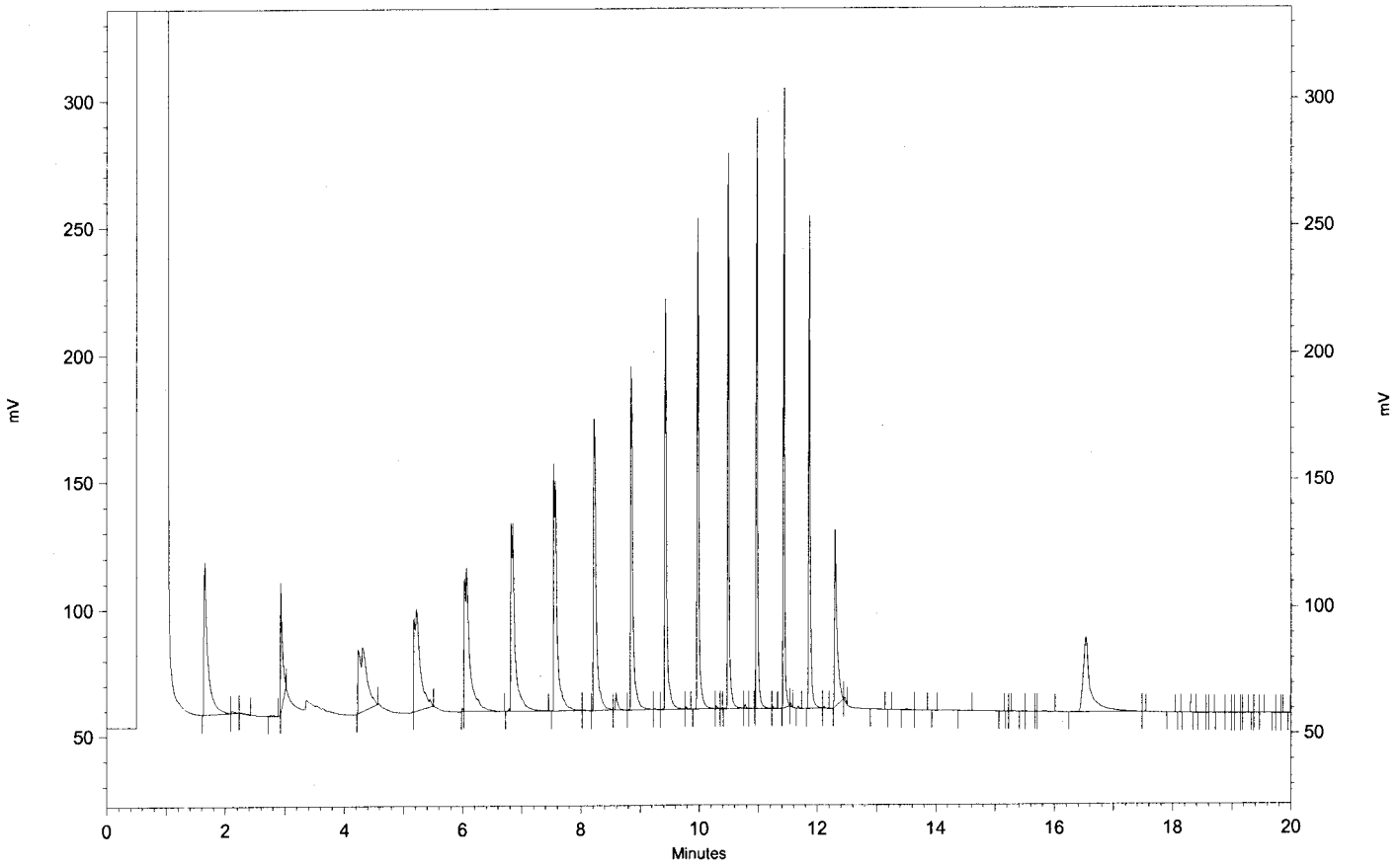
Sample Name: **x,cmarker,s8590,c8-c50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\073b002**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\073.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\cm073b.met
Run Date: 3/13/2008 7:57:26 AM
Analysis Date: 3/13/2008 9:59:02 AM
Instrument: GC15B Vial: 2 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

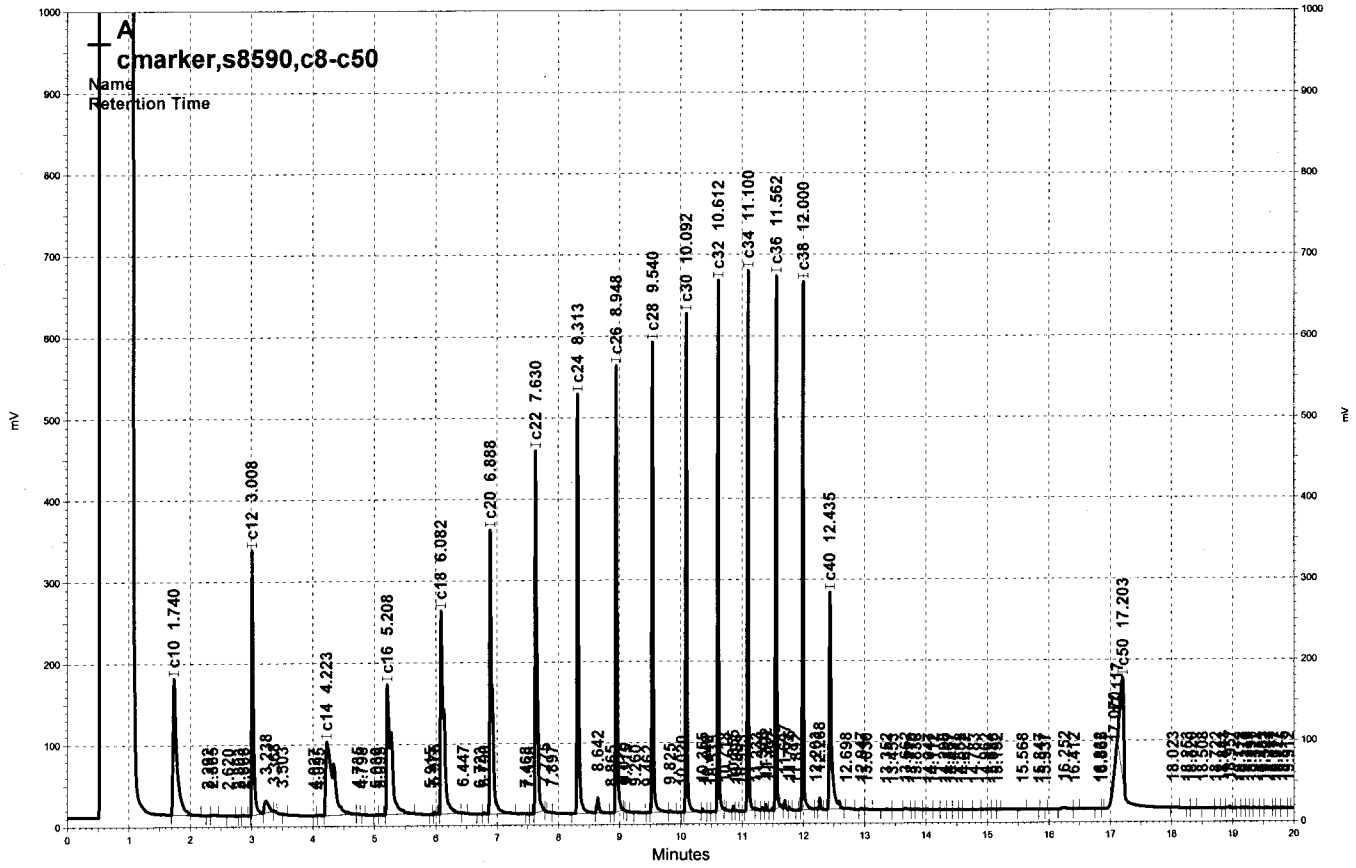
TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	1.652	277219	0.000
c12	2.932	108319	0.000
c14	4.313	248138	0.000
c16	5.225	284872	0.000
c18	6.065	340931	0.000
c20	6.817	361796	0.000
c22	7.543	366976	0.000
c24	8.220	365159	0.000
c26	8.845	368096	0.000
c28	9.430	367038	0.000
c30	9.978	366747	0.000
c32	10.492	359178	0.000
c34	10.978	356422	0.000
c36	11.437	331958	0.000
c38	11.868	329801	0.000
c40	12.302	204981	0.000
c50	16.530	249313	0.000



Curtis & Tompkins Ltd.



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a003, A

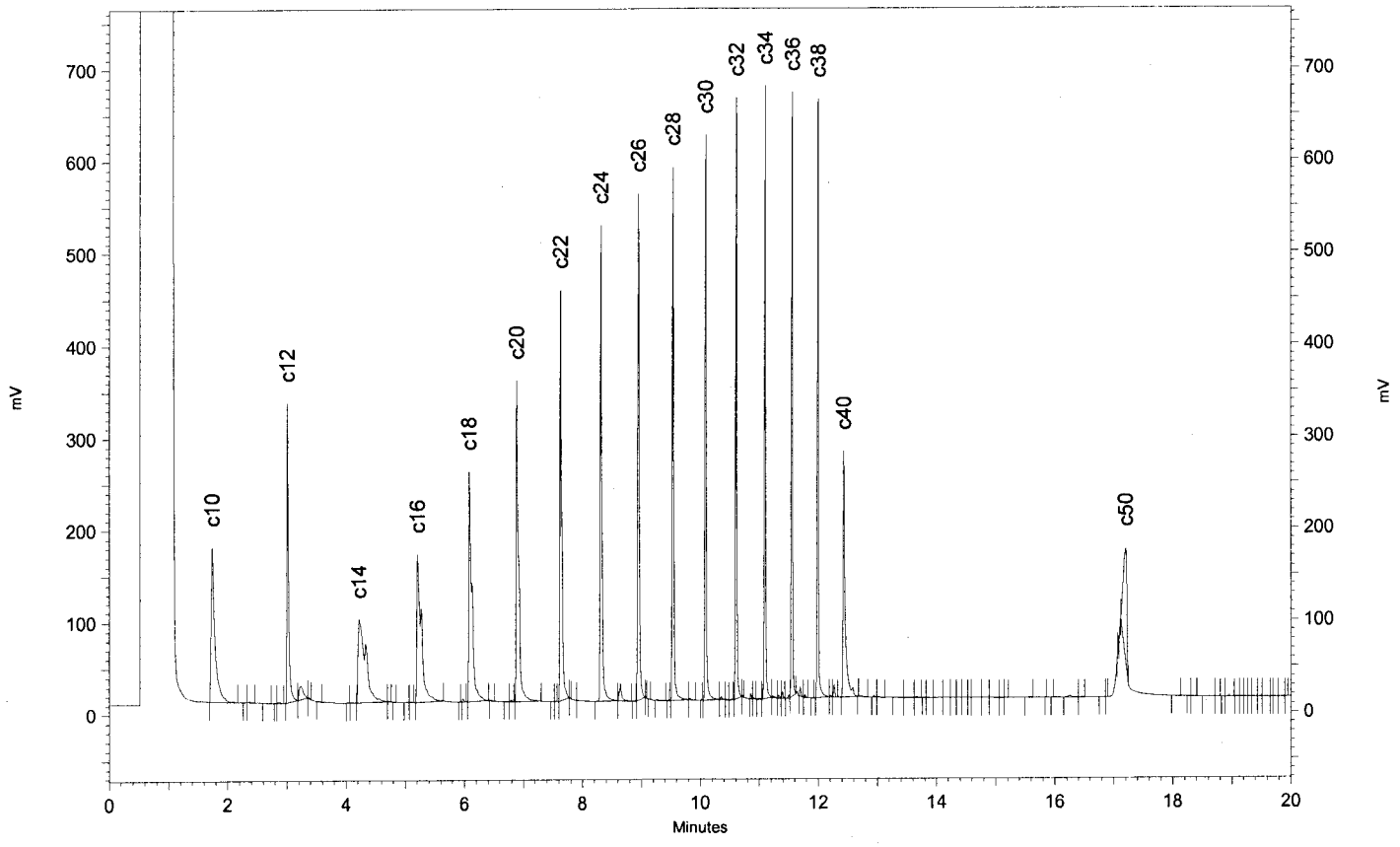
Sample Name: **cmarker,s8590,c8-c50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\cm081.met
Run Date: 3/21/2008 8:56:04 AM
Analysis Date: 3/21/2008 10:42:23 AM
Instrument: GC17A Vial: 3 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	1.740	739753	0.000
c12	3.008	592718	0.000
c14	4.223	789369	0.000
c16	5.208	826841	0.000
c18	6.082	878702	0.000
c20	6.888	937593	0.000
c22	7.630	931090	0.000
c24	8.313	967371	0.000
c26	8.948	936228	0.000
c28	9.540	946980	0.000
c30	10.092	926093	0.000
c32	10.612	890177	0.000
c34	11.100	909832	0.000
c36	11.562	856393	0.000
c38	12.000	889240	0.000
c40	12.435	652321	0.000
c50	17.203	499429	0.000



Continuing Calibration Raw Data

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

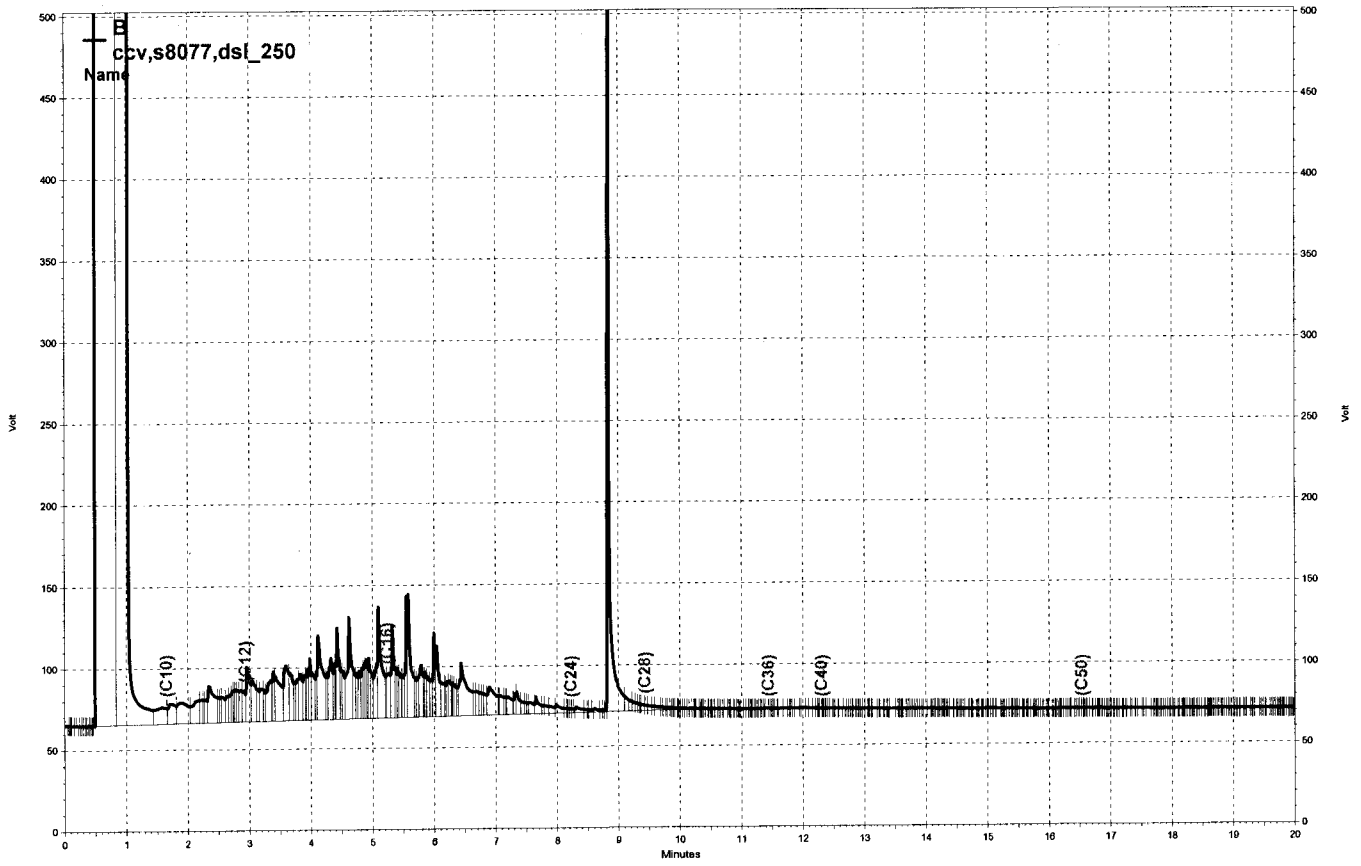
Inst : GC15B Run Name : DSL_250 IDF : 1.0
Seqnum : 168114200048 File : 079b048 Time : 20-MAR-2008 06:27
Standards: S8077

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	28056	250.0	269.2	mg/L	8	15	
Hexacosane	167479943001	30-NOV-2007	26439	23078	50.00	43.64	mg/L	-13	15	

Analyst: JDG Date: 03/20/08 Reviewer: LH Date: 03/20/08

168114200048

00277



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b048, B

Sample Name: **ccv,s8077,dsl_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b048**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 6:27:36 AM
Analysis Date: 3/20/2008 9:01:05 AM
Instrument: GC15B Vial: 48 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	5098457	227.822
JP8:10-16	5098457	224.437
KER:10-16	5098457	190.541
JP5:10-16	5098457	194.434
DSL:10-20	7510794	274.254
DSL:10-22	7952655	275.982
DSL:10-24	8151242	278.753
DSL:12-22	6815432	265.889
DSL:10-28	9533669	323.208
DSL:12-24	7014019	269.163
DSL:12-32	8483315	321.727
BUNKC:12-40	8494466	907.979
TROIL:12-40	8494466	293.282
HYFL:12-40	8494466	348.317
MO:20-36	2115093	83.634
MO:22-36	1673232	73.724
MO:24-36	1474645	80.989
BUNKC:12-50	8521386	0.000
DSL:10-12	1137223	0.000
DSL:12-16	3961234	0.000
DSL:16-24	3052785	0.000
MO:28-36	92218	11.539
MO:28-40	98020	11.613
MO:22-32	1667883	80.613
DSL:12-14	2115016	0.000
DSL:14-16	1846218	0.000
DSL:16-18	1603252	0.000
DSL:18-20	809085	0.000
DSL:20-22	441861	0.000
DSL:22-24	198587	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

Manual Integration Fixes

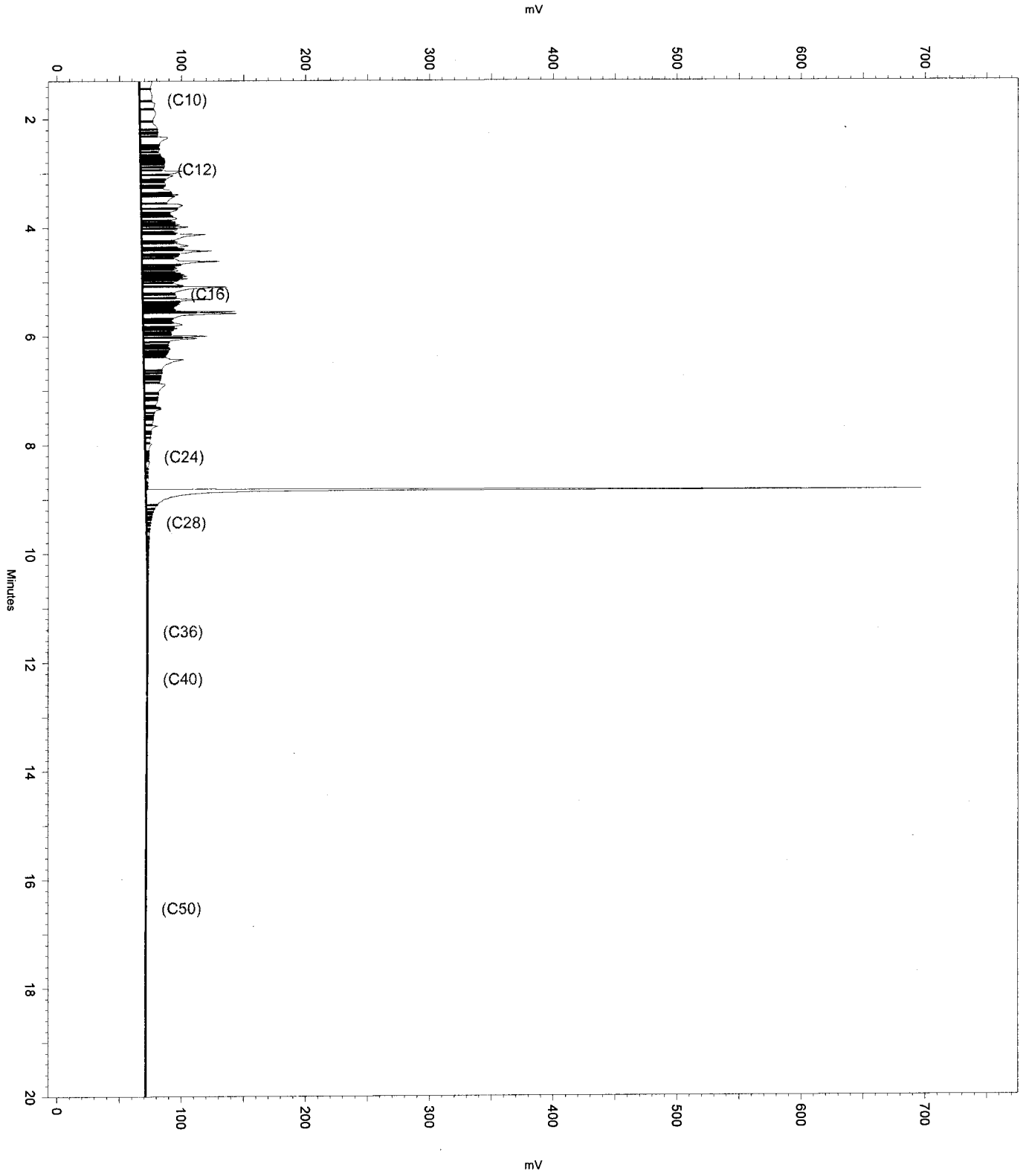
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b048

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Stop	0.49	10.715	0
Yes	Manual Peak	8.797	9.097	0

00280

Sample Name: **ccv,s8077,dsl_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b048**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 6:27:36 AM
Analysis Date: 3/20/2008 9:01:05 AM
Instrument: GC15B Vial: 48 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

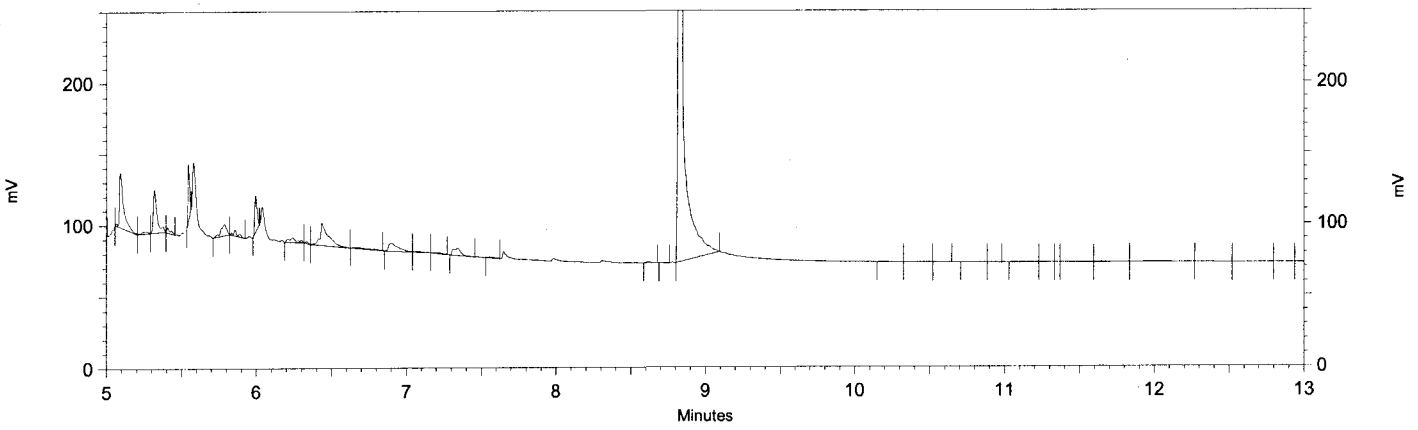
Sample Name: **ccv,s8077,dsl_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b048**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/20/2008 6:27:36 AM
Analysis Date: 3/20/2008 8:57:32 AM
Instrument: GC15B Vial: 48 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.842	1153875	43.644



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b048

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.797	9.097	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168114200049 File : 079b049 Time : 20-MAR-2008 06:55
Standards: S8071

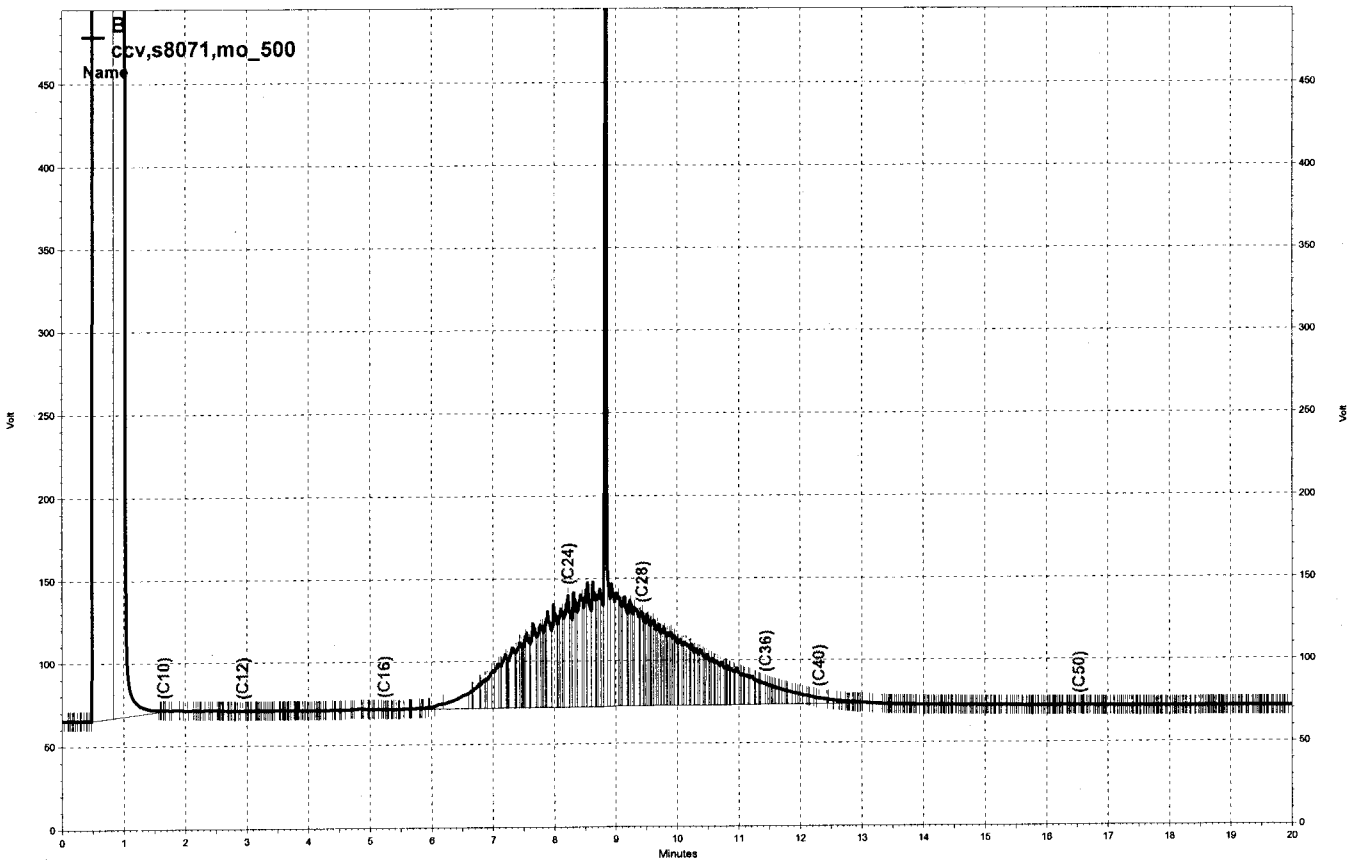
Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	16489	500.0	452.8	mg/L	-9	15	
Hexacosane	167479943001	30-NOV-2007	26439	22043	50.00	41.69	mg/L	**-17**	15	c-

JDG 03/20/08 : Hexacosane taken from previous CCV.

Analyst: JDG Date: 03/20/08 Reviewer: LH Date: 03/20/08

-=low bias c=CCV

168114200049



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b049, B

Sample Name: **ccv,s8071,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b049**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 6:55:02 AM
Analysis Date: 3/20/2008 9:01:49 AM
Instrument: GC15B Vial: 49 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	32930	1.471
JP8:10-16	32930	1.450
KER:10-16	32930	1.231
JP5:10-16	32930	1.256
DSL:10-20	206350	7.535
DSL:10-22	1422303	49.358
DSL:10-24	3584321	122.575
DSL:12-22	1411958	55.084
DSL:10-28	9250216	313.599
DSL:12-24	3573976	137.151
DSL:12-32	11812855	447.999
BUNKC:12-40	13329246	1424.772
TROIL:12-40	13329246	460.208
HYFL:12-40	13329246	546.569
MO:20-36	12724783	503.159
MO:22-36	11508830	507.090
MO:24-36	9346812	513.335
BUNKC:12-50	13374145	0.000
DSL:10-12	10345	0.000
DSL:12-16	22585	0.000
DSL:16-24	3551391	0.000
MO:28-36	3680917	460.579
MO:28-40	4089375	484.488
MO:22-32	10400897	502.699
DSL:12-14	6386	0.000
DSL:14-16	16199	0.000
DSL:16-18	14029	0.000
DSL:18-20	159391	0.000
DSL:20-22	1215953	0.000
DSL:22-24	2162018	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

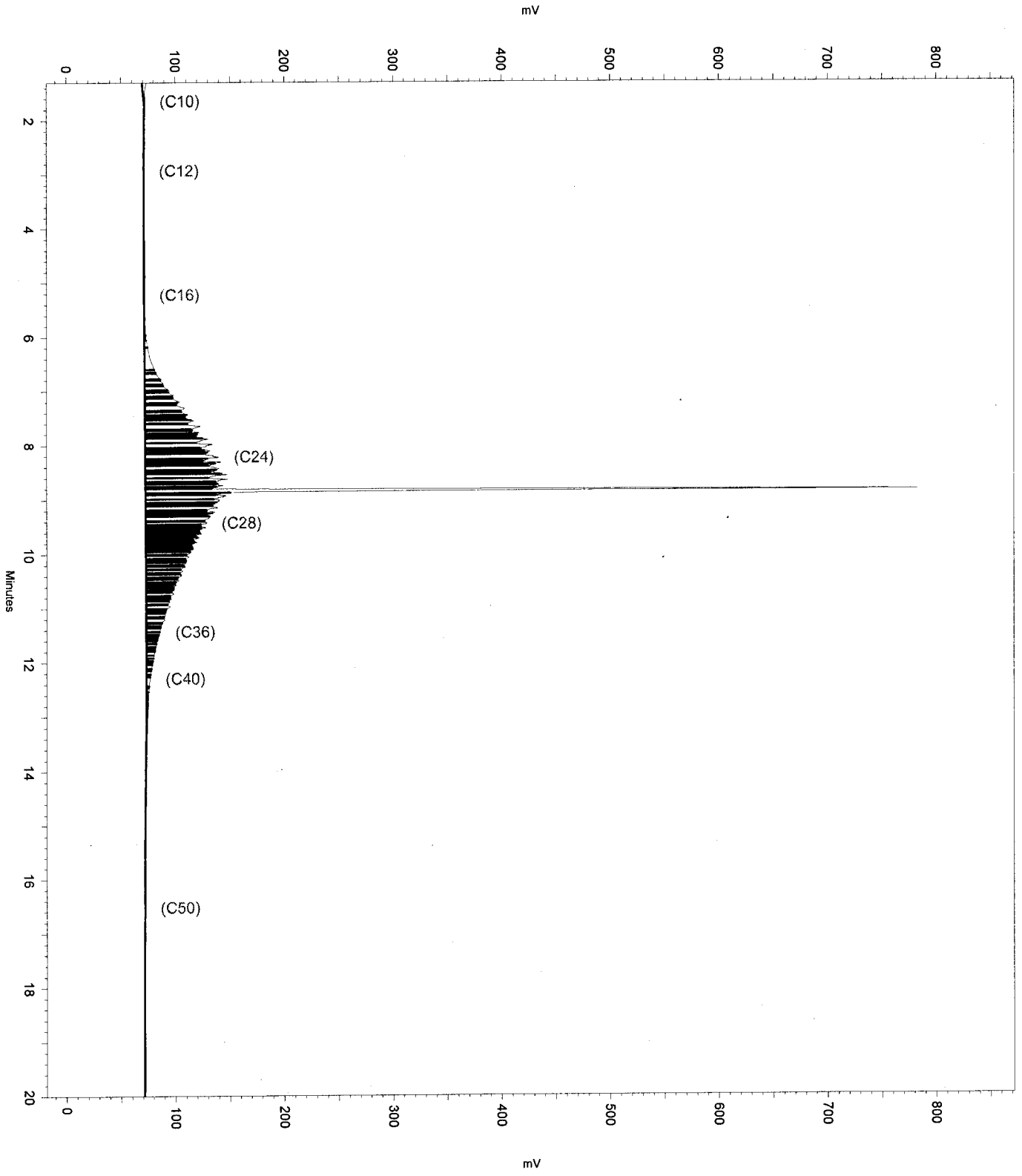
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b049

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	1.572	0.474	0
Yes	Split Peak	8.87	0	0
Yes	Move BL Start	12.862	5.383	0

Sample Name: **ccv,s8071,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b049**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 6:55:02 AM
Analysis Date: 3/20/2008 9:01:49 AM
Instrument: GC15B Vial: 49 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

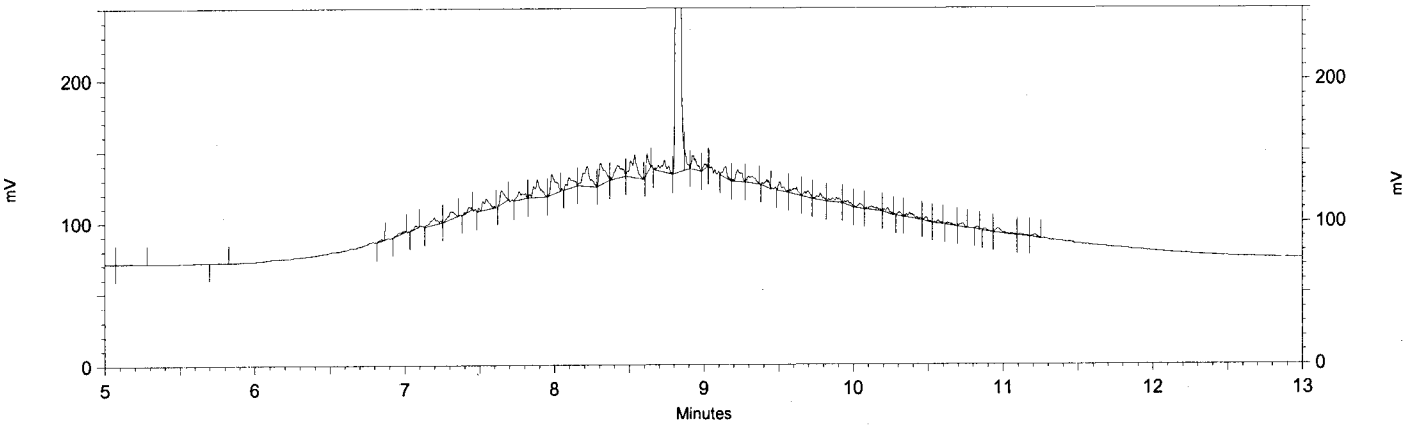
Sample Name: **ccv,s8071,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b049**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/20/2008 6:55:02 AM
Analysis Date: 3/20/2008 8:57:44 AM
Instrument: GC15B Vial: 49 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.843	1102140	41.687



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b049

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	8.87	0	0

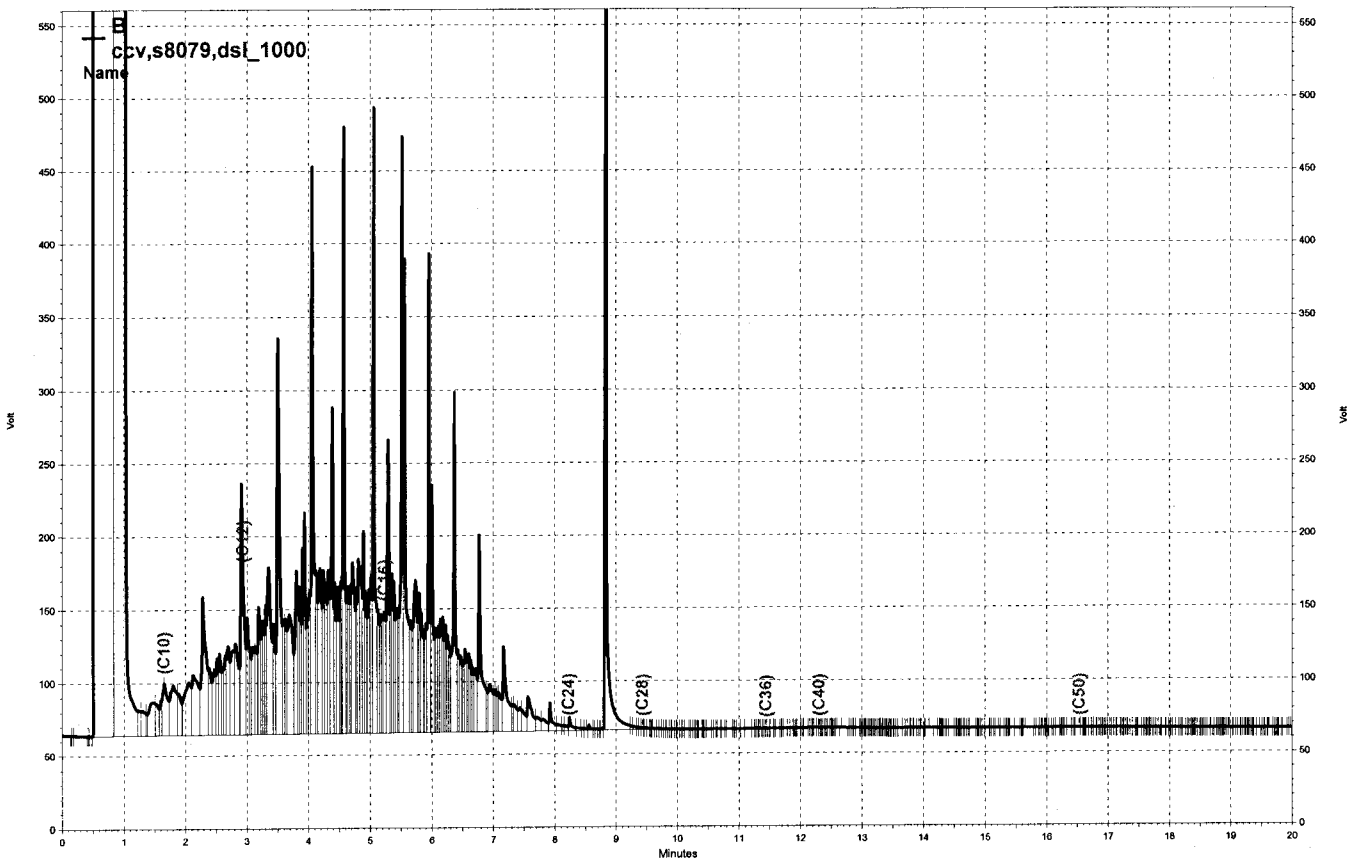
CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 168114200058 File : 079b058 Time : 20-MAR-2008 12:06
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	22648	1000	869.1	mg/L	-13	15	
Hexacosane	167479943001	30-NOV-2007	26439	25895	50.00	48.97	mg/L	-2	15	

Analyst: DNT Date: 03/20/08 Reviewer: LH Date: 03/20/08

168114200058



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b058, B

Sample Name: **ccv,s8079,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b058**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 12:06:36 PM
Analysis Date: 3/20/2008 12:49:31 PM
Instrument: GC15B Vial: 58 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	16993700	759.355
JP8:10-16	16993700	748.073
KER:10-16	16993700	635.092
JP5:10-16	16993700	648.070
DSL:10-20	25134802	917.789
DSL:10-22	26040736	903.695
DSL:10-24	26366722	901.678
DSL:12-22	22321576	870.826
DSL:10-28	27740508	940.452
DSL:12-24	22647562	869.101
DSL:12-32	24042852	911.819
BUNKC:12-40	24049792	2570.699
TROIL:12-40	24049792	830.349
HYFL:12-40	24049792	986.167
MO:20-36	2630265	104.005
MO:22-36	1724331	75.976
MO:24-36	1398344	76.798
BUNKC:12-50	24064380	0.000
DSL:10-12	3719163	0.000
DSL:12-16	13274537	0.000
DSL:16-24	9373029	0.000
MO:28-36	24558	3.073
MO:28-40	28444	3.370
MO:22-32	1721284	83.193
DSL:12-14	7302421	0.000
DSL:14-16	5972116	0.000
DSL:16-18	5259121	0.000
DSL:18-20	2881987	0.000
DSL:20-22	905934	0.000
DSL:22-24	325987	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

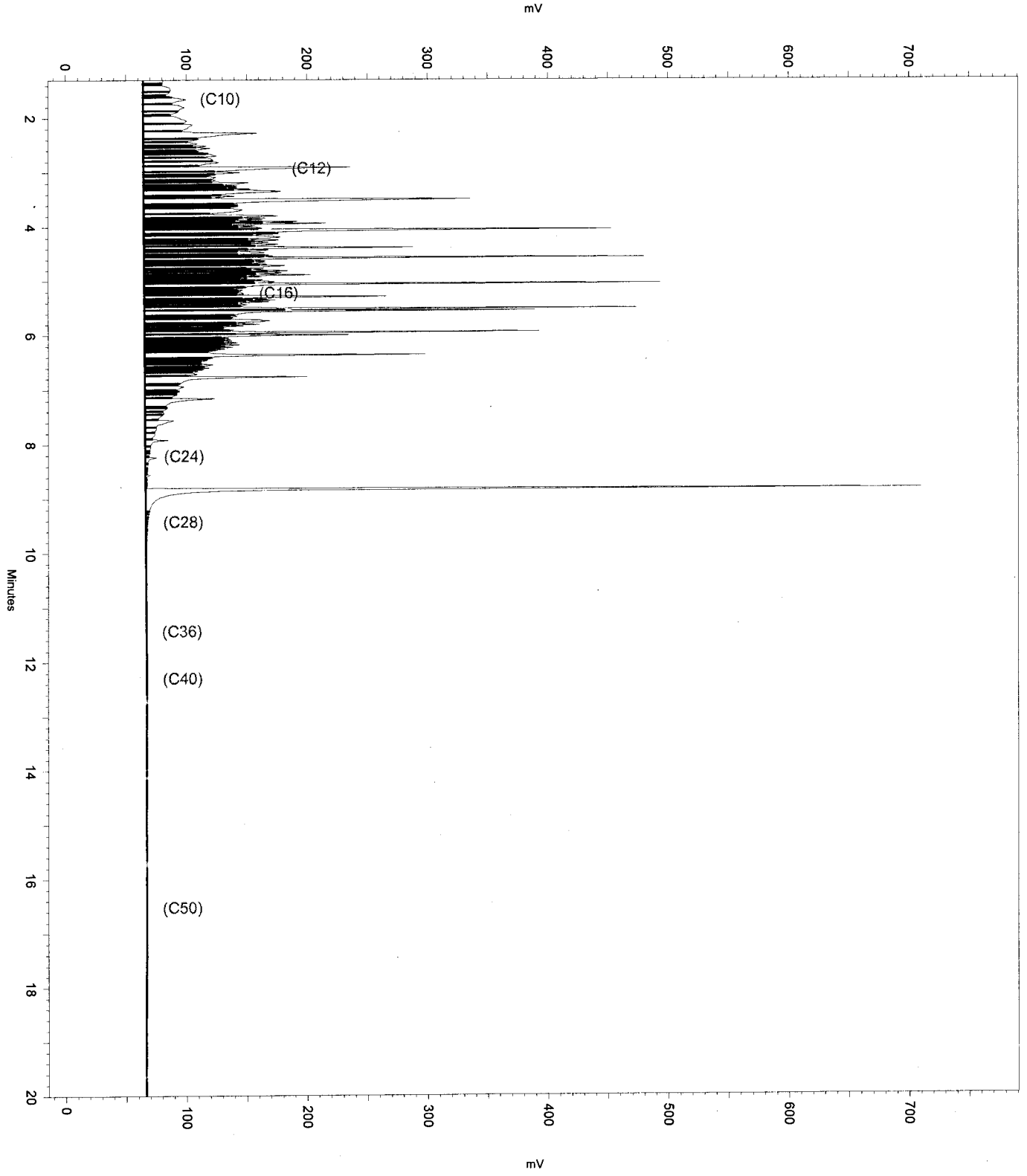
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b058

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Stop	0.497	10.342	0

Sample Name: **ccv,s8079,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b058**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 12:06:36 PM
Analysis Date: 3/20/2008 12:49:31 PM
Instrument: GC15B Vial: 58 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

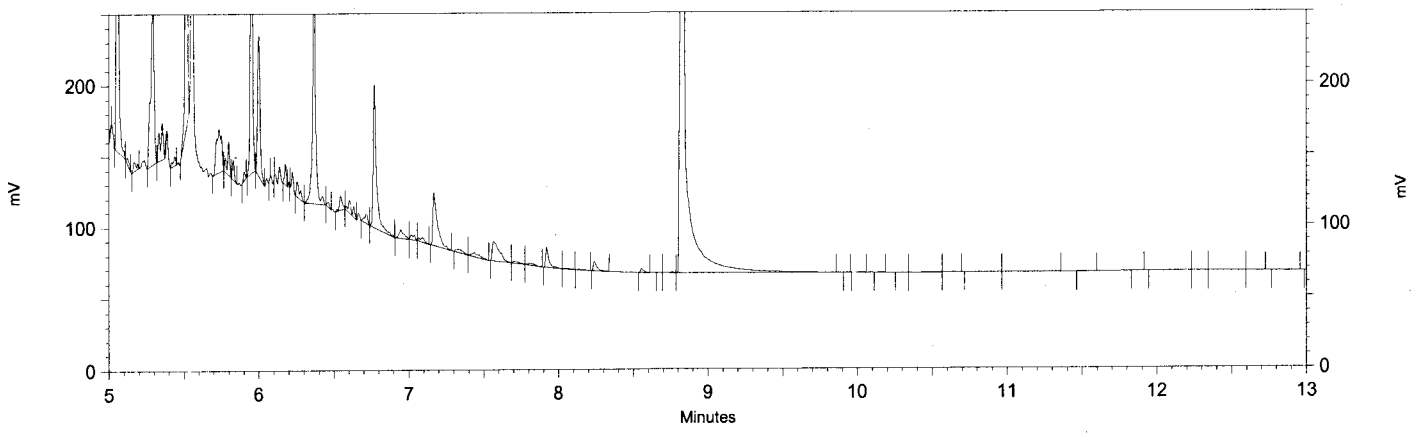
Sample Name: **ccv,s8079,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b058**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/20/2008 12:06:36 PM
Analysis Date: 3/20/2008 12:48:35 PM
Instrument: GC15B Vial: 58 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.838	1294730	48.971



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b058

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

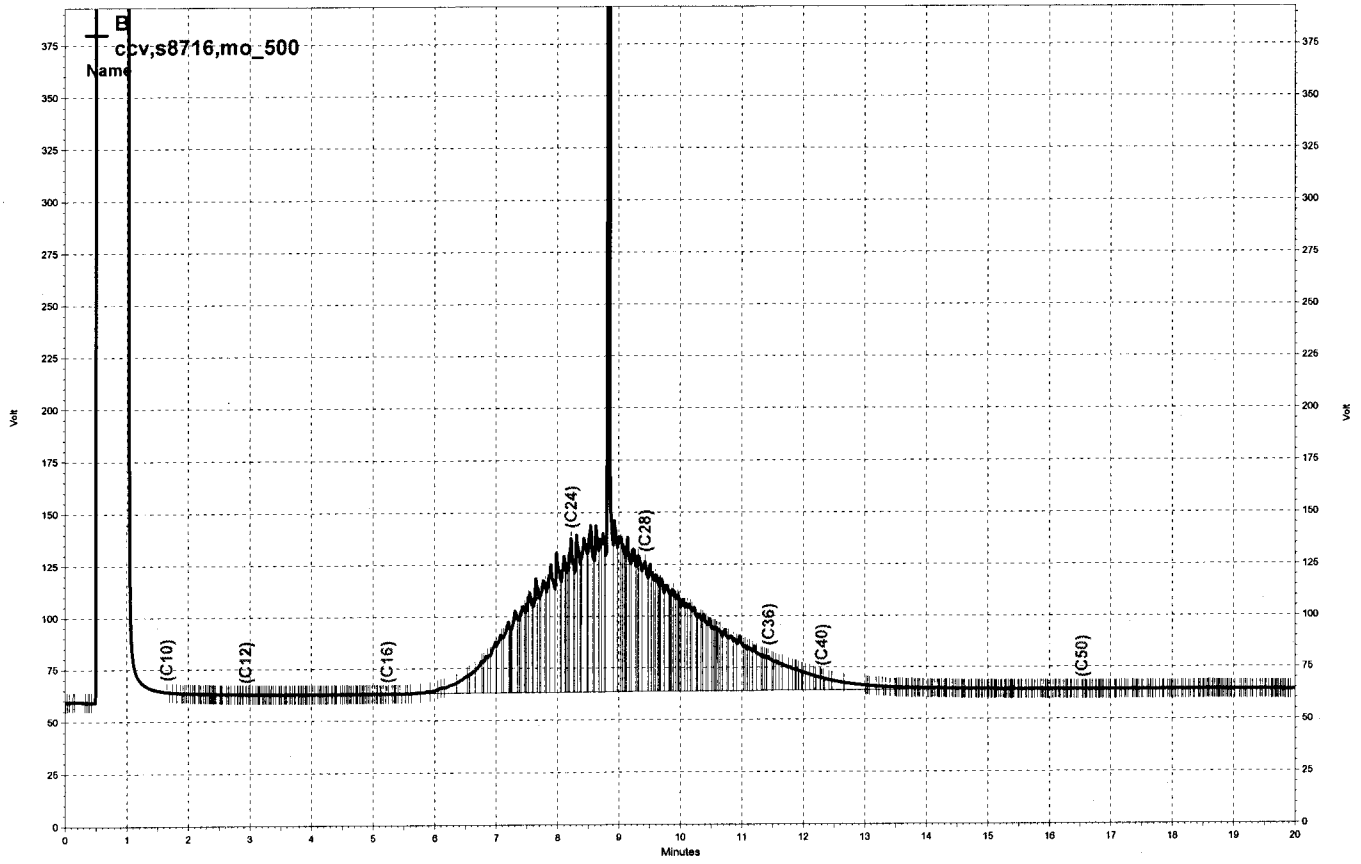
Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168114200059.1 File : 079b059 Time : 20-MAR-2008 12:34
Standards: S8071

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	18182	500.0	499.3	mg/L	0	15	
Hexacosane	167479943001	30-NOV-2007	26439	23895	50.00	45.19	mg/L	-10	15	

DNT 03/20/08 : hexacosane page incorrect; standard should read s8716

Analyst: DNT Date: 03/20/08 Reviewer: LH Date: 03/20/08

168114200059.1



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b059, B

Sample Name: **ccv,s8716,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b059**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 12:34:26 PM
Analysis Date: 3/20/2008 2:43:23 PM
Instrument: GC15B Vial: 59 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	11396	0.509
JP8:10-16	11396	0.502
KER:10-16	11396	0.426
JP5:10-16	11396	0.435
DSL:10-20	346418	12.649
DSL:10-22	1639902	56.910
DSL:10-24	4037477	138.072
DSL:12-22	1635397	63.801
DSL:10-28	10226894	346.710
DSL:12-24	4032972	154.765
DSL:12-32	12974689	492.062
BUNKC:12-40	14801884	1582.183
TROIL:12-40	14801884	511.053
HYFL:12-40	14801884	606.955
MO:20-36	13976659	552.660
MO:22-36	12683175	558.833
MO:24-36	10285600	564.894
BUNKC:12-50	14937718	0.000
DSL:10-12	4505	0.000
DSL:12-16	6891	0.000
DSL:16-24	4026081	0.000
MO:28-36	4096183	512.540
MO:28-40	4579495	542.555
MO:22-32	11339292	548.053
DSL:12-14	3999	0.000
DSL:14-16	2892	0.000
DSL:16-18	21675	0.000
DSL:18-20	313347	0.000
DSL:20-22	1293484	0.000
DSL:22-24	2397575	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

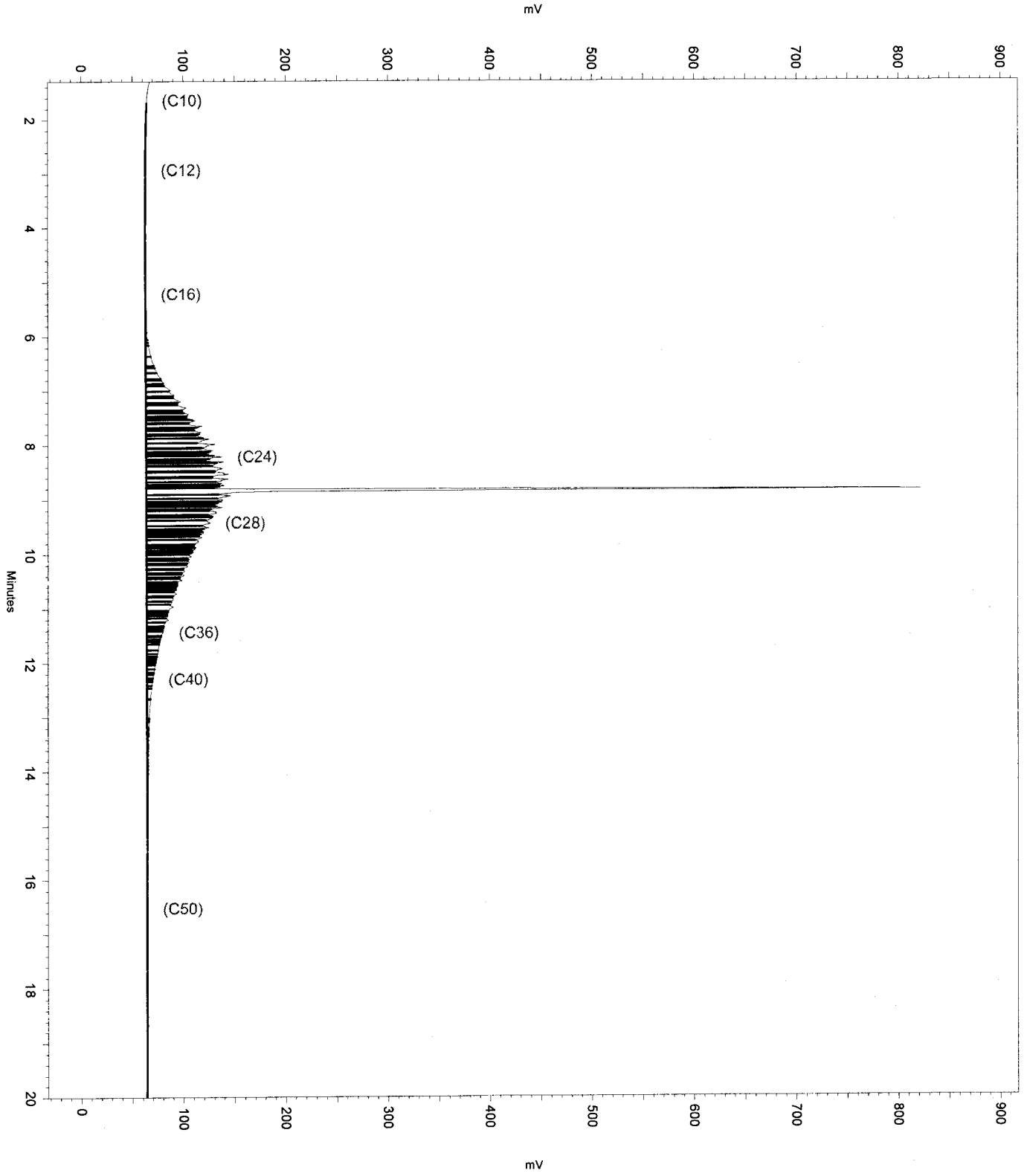
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b059

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Stop	5.555	15.113	0

Sample Name: **ccv,s8716,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b059**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 12:34:26 PM
Analysis Date: 3/20/2008 2:43:23 PM
Instrument: GC15B Vial: 59 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

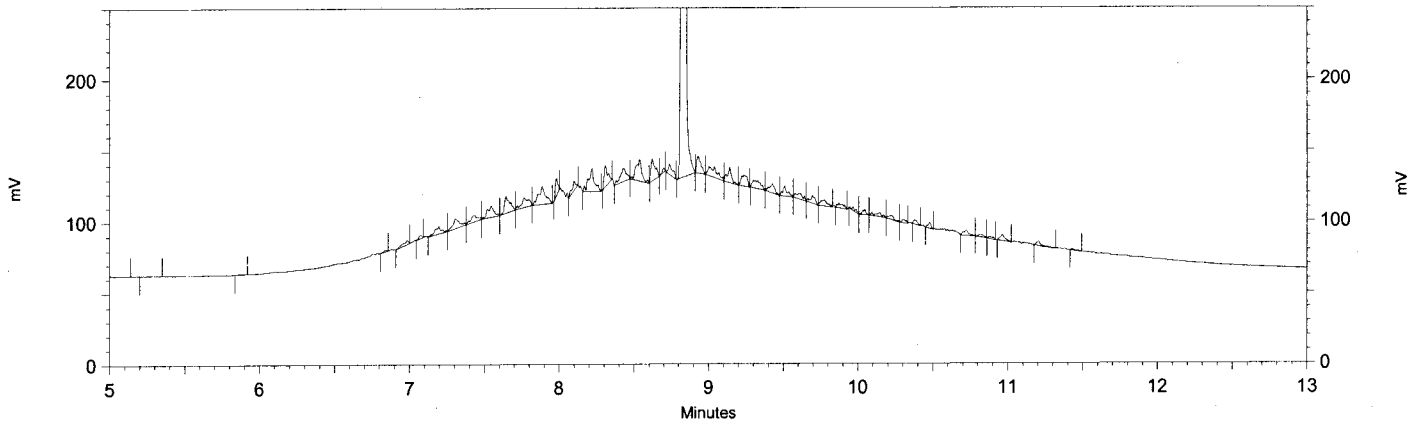
Sample Name: **ccv,s8071,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b059**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/20/2008 12:34:26 PM
Analysis Date: 3/20/2008 12:54:34 PM
Instrument: GC15B Vial: 59 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.847	1194736	45.189



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\079b059_79D4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

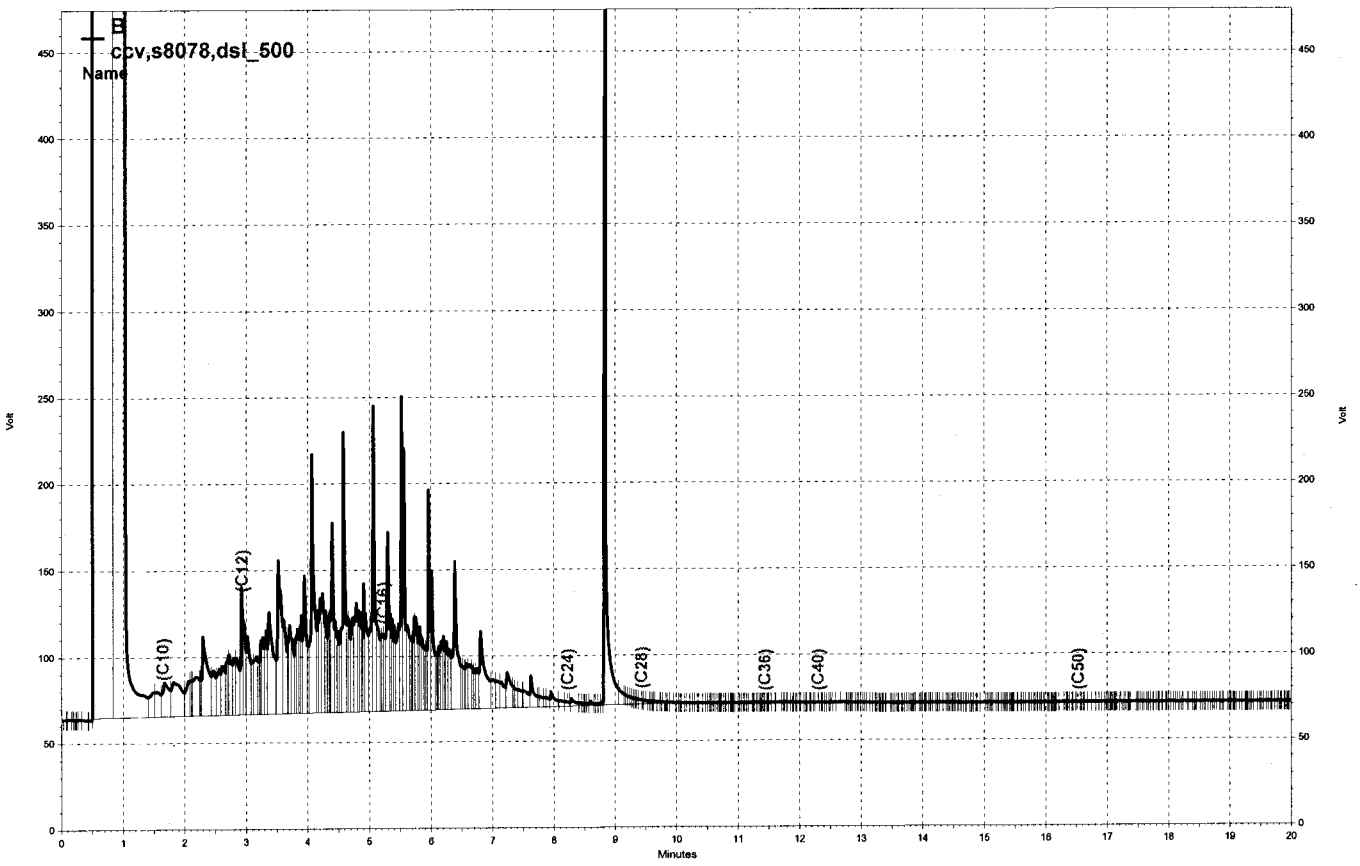
CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_500 IDF : 1.0
Seqnum : 168114200078 File : 079b078 Time : 20-MAR-2008 21:48
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	23994	500.0	460.4	mg/L	-8	15	
Hexacosane	167479943001	30-NOV-2007	26439	25026	50.00	47.33	mg/L	-5	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168114200078



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b078, B

Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b078**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 9:48:27 PM
Analysis Date: 3/21/2008 7:56:38 AM
Instrument: GC15B Vial: 78 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	8954260	400.117
JP8:10-16	8954260	394.172
KER:10-16	8954260	334.640
JP5:10-16	8954260	341.479
DSL:10-20	13263447	484.310
DSL:10-22	13745593	477.015
DSL:10-24	13947537	476.972
DSL:12-22	11795024	460.156
DSL:10-28	15267370	517.591
DSL:12-24	11996968	460.384
DSL:12-32	13346297	506.155
BUNKC:12-40	13356346	1427.669
TROIL:12-40	13356346	461.144
HYFL:12-40	13356346	547.680
MO:20-36	2039458	80.643
MO:22-36	1557312	68.617
MO:24-36	1355368	74.438
BUNKC:12-50	13378761	0.000
DSL:10-12	1950569	0.000
DSL:12-16	7003691	0.000
DSL:16-24	4993277	0.000
MO:28-36	35535	4.446
MO:28-40	39545	4.685
MO:22-32	1551273	74.976
DSL:12-14	3907386	0.000
DSL:14-16	3096305	0.000
DSL:16-18	2692756	0.000
DSL:18-20	1616431	0.000
DSL:20-22	482146	0.000
DSL:22-24	201944	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

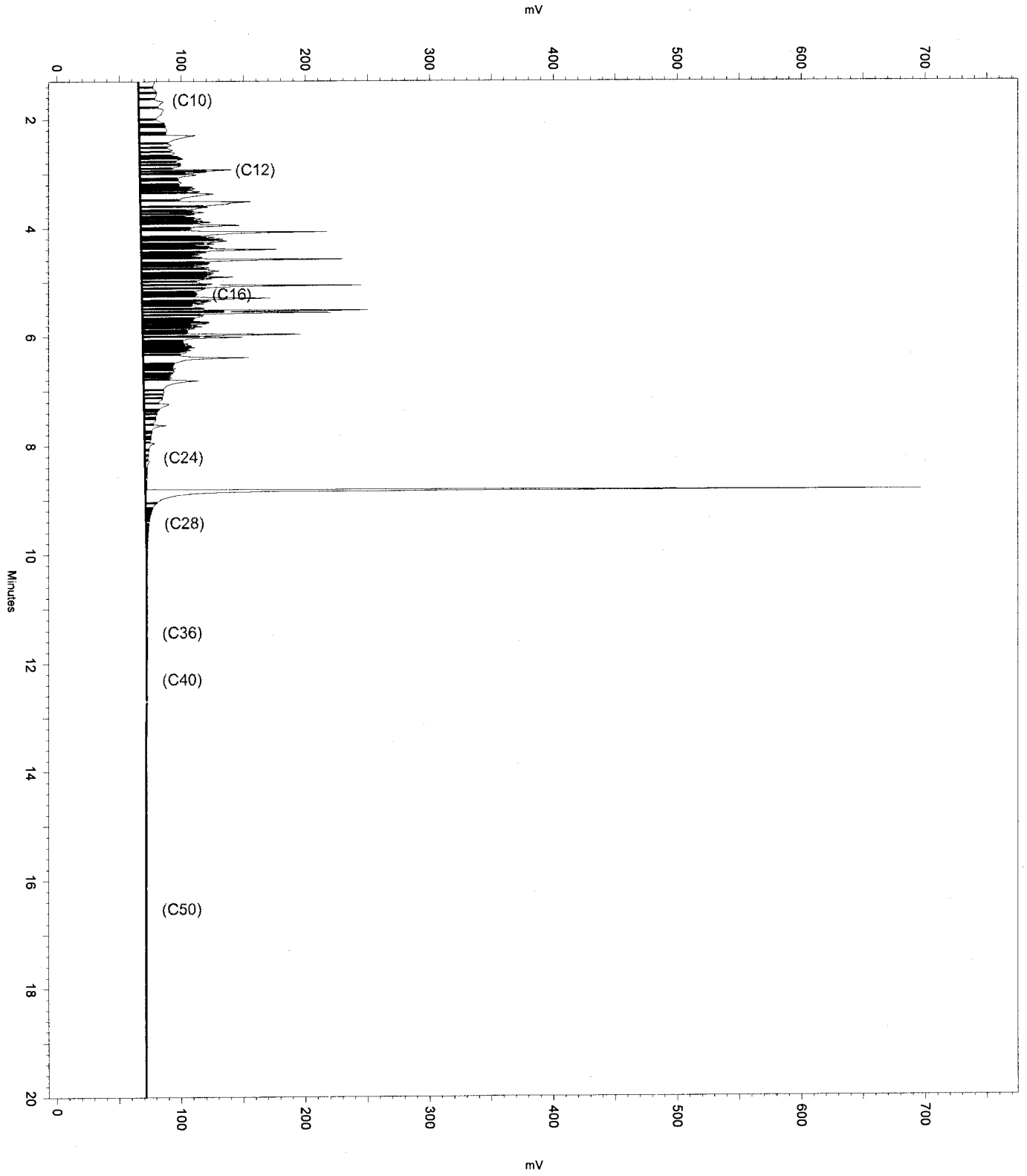
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b078

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	9.993	0.5	0

Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b078**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 9:48:27 PM
Analysis Date: 3/21/2008 7:56:38 AM
Instrument: GC15B Vial: 78 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

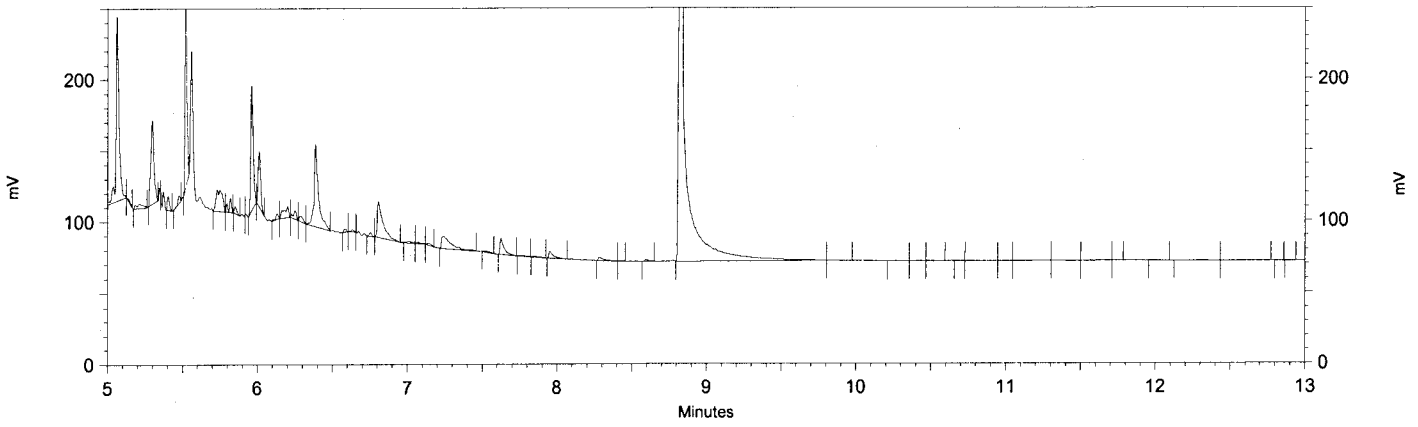
Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b078**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/20/2008 9:48:27 PM
Analysis Date: 3/20/2008 10:08:36 PM
Instrument: GC15B Vial: 78 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.837	1251320	47.329



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\079b078_79E9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

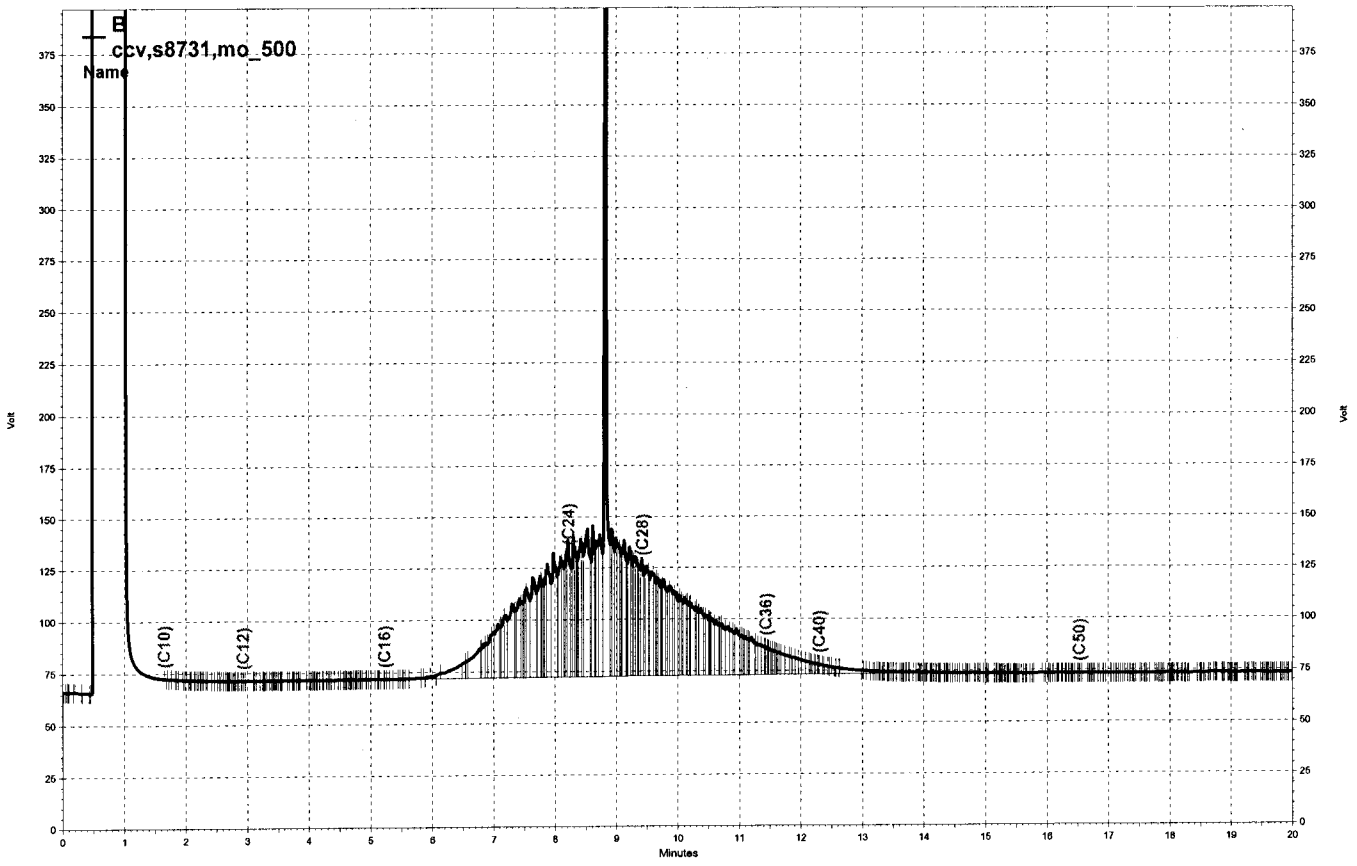
CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168114200079 File : 079b079 Time : 20-MAR-2008 22:16
Standards: S8731

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	15886	500.0	436.2	mg/L	-13	15	
Hexacosane	167479943001	30-NOV-2007	26439	24322	50.00	46.00	mg/L	-8	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168114200079



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b079, B

Sample Name: **ccv,s8731,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b079**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 10:16:10 PM
Analysis Date: 3/21/2008 7:57:02 AM
Instrument: GC15B Vial: 79 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	12352	0.552
JP8:10-16	12352	0.544
KER:10-16	12352	0.462
JP5:10-16	12352	0.471
DSL:10-20	224029	8.180
DSL:10-22	1559956	54.135
DSL:10-24	3509999	120.033
DSL:12-22	1555199	60.673
DSL:10-28	9107288	308.753
DSL:12-24	3505242	134.514
DSL:12-32	11539840	437.645
BUNKC:12-40	13107240	1401.042
TROIL:12-40	13107240	452.543
HYFL:12-40	13107240	537.465
MO:20-36	12445201	492.103
MO:22-36	11109274	489.486
MO:24-36	9159231	503.033
BUNKC:12-50	13211727	0.000
DSL:10-12	4757	0.000
DSL:12-16	7595	0.000
DSL:16-24	3497647	0.000
MO:28-36	3561942	445.692
MO:28-40	4004709	474.457
MO:22-32	9984641	482.580
DSL:12-14	4868	0.000
DSL:14-16	2727	0.000
DSL:16-18	9527	0.000
DSL:18-20	202150	0.000
DSL:20-22	1335927	0.000
DSL:22-24	1950043	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

Manual Integration Fixes

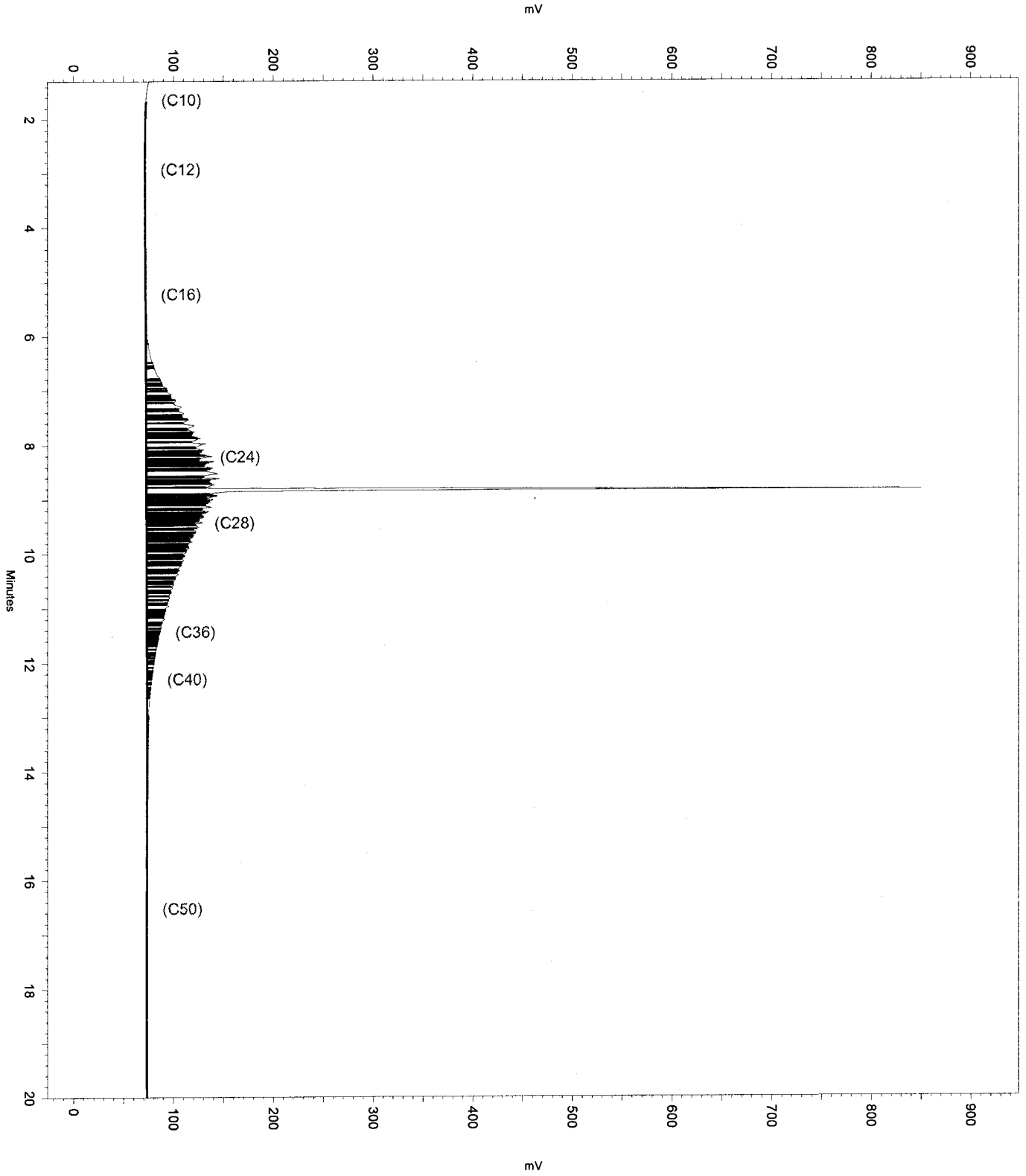
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b079

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

00309

Yes	Move BL Start	14.363	5.562	0

Sample Name: **ccv,s8731,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b079**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/20/2008 10:16:10 PM
Analysis Date: 3/21/2008 7:57:02 AM
Instrument: GC15B Vial: 79 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

20231

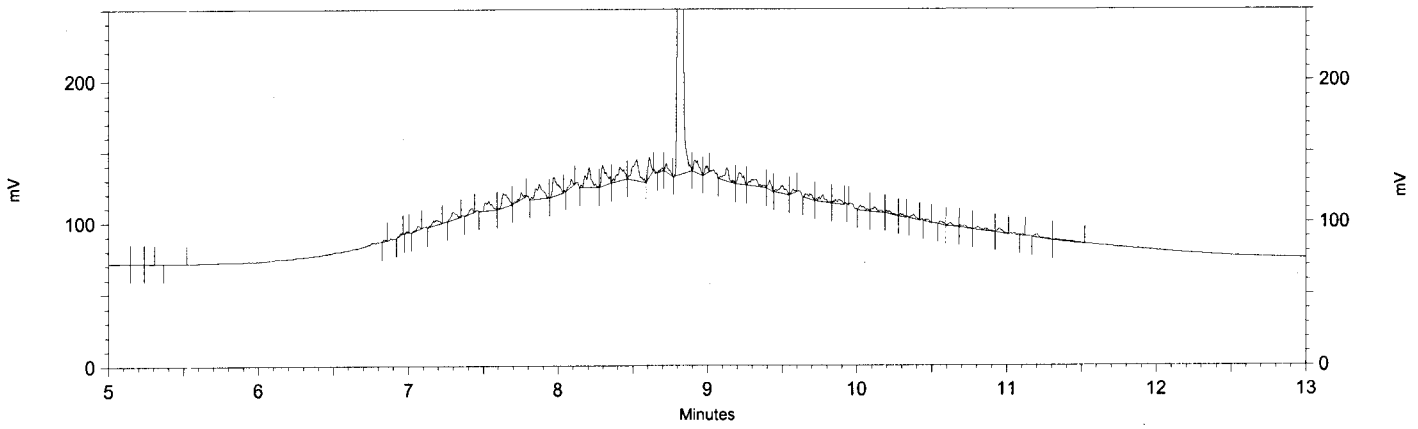
Sample Name: **ccv,s8731,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b079**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/20/2008 10:16:10 PM
Analysis Date: 3/20/2008 10:36:20 PM
Instrument: GC15B Vial: 79 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.833	1216102	45.997



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\079b079_79EA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

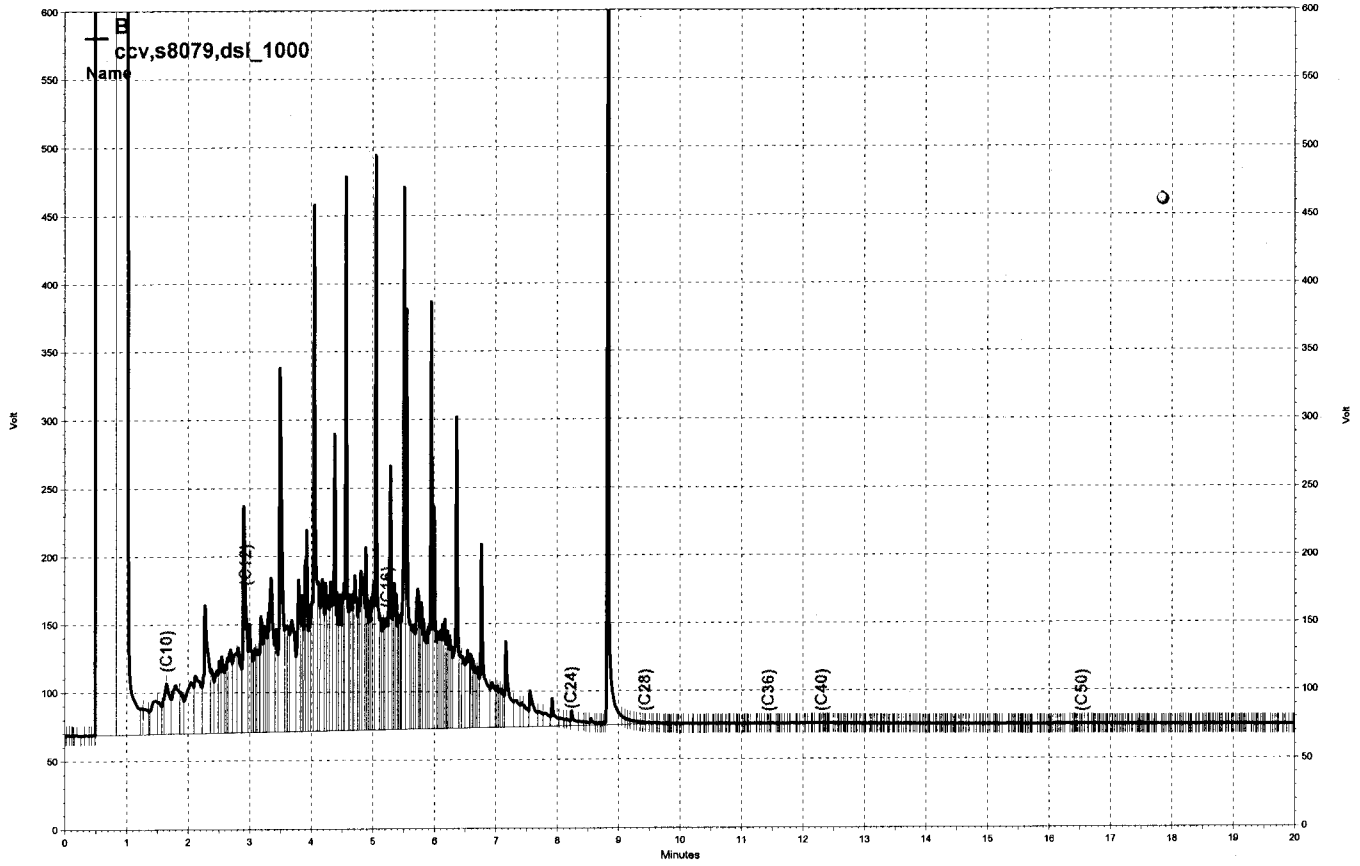
CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 168114200096 File : 079b096 Time : 21-MAR-2008 06:05
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	22431	1000	860.8	mg/L	-14	15	
Hexacosane	167479943001	30-NOV-2007	26439	25186	50.00	47.63	mg/L	-5	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168114200096



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b096, B

Sample Name: **ccv,s8079,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b096**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 6:05:37 AM
Analysis Date: 3/21/2008 7:57:47 AM
Instrument: GC15B Vial: 96 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	16832636	752.158
JP8:10-16	16832636	740.983
KER:10-16	16832636	629.072
JP5:10-16	16832636	641.928
DSL:10-20	24946412	910.910
DSL:10-22	25835946	896.588
DSL:10-24	26211384	896.366
DSL:12-22	22055174	860.433
DSL:10-28	27602940	935.788
DSL:12-24	22430612	860.775
DSL:12-32	23841044	904.166
BUNKC:12-40	23849068	2549.244
TROIL:12-40	23849068	823.418
HYFL:12-40	23849068	977.937
MO:20-36	2679507	105.952
MO:22-36	1789974	78.868
MO:24-36	1414537	77.688
BUNKC:12-50	23869744	0.000
DSL:10-12	3780772	0.000
DSL:12-16	13051864	0.000
DSL:16-24	9378746	0.000
MO:28-36	22978	2.875
MO:28-40	26904	3.187
MO:22-32	1785879	86.316
DSL:12-14	7216076	0.000
DSL:14-16	5835788	0.000
DSL:16-18	5189142	0.000
DSL:18-20	2924634	0.000
DSL:20-22	889533	0.000
DSL:22-24	375437	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

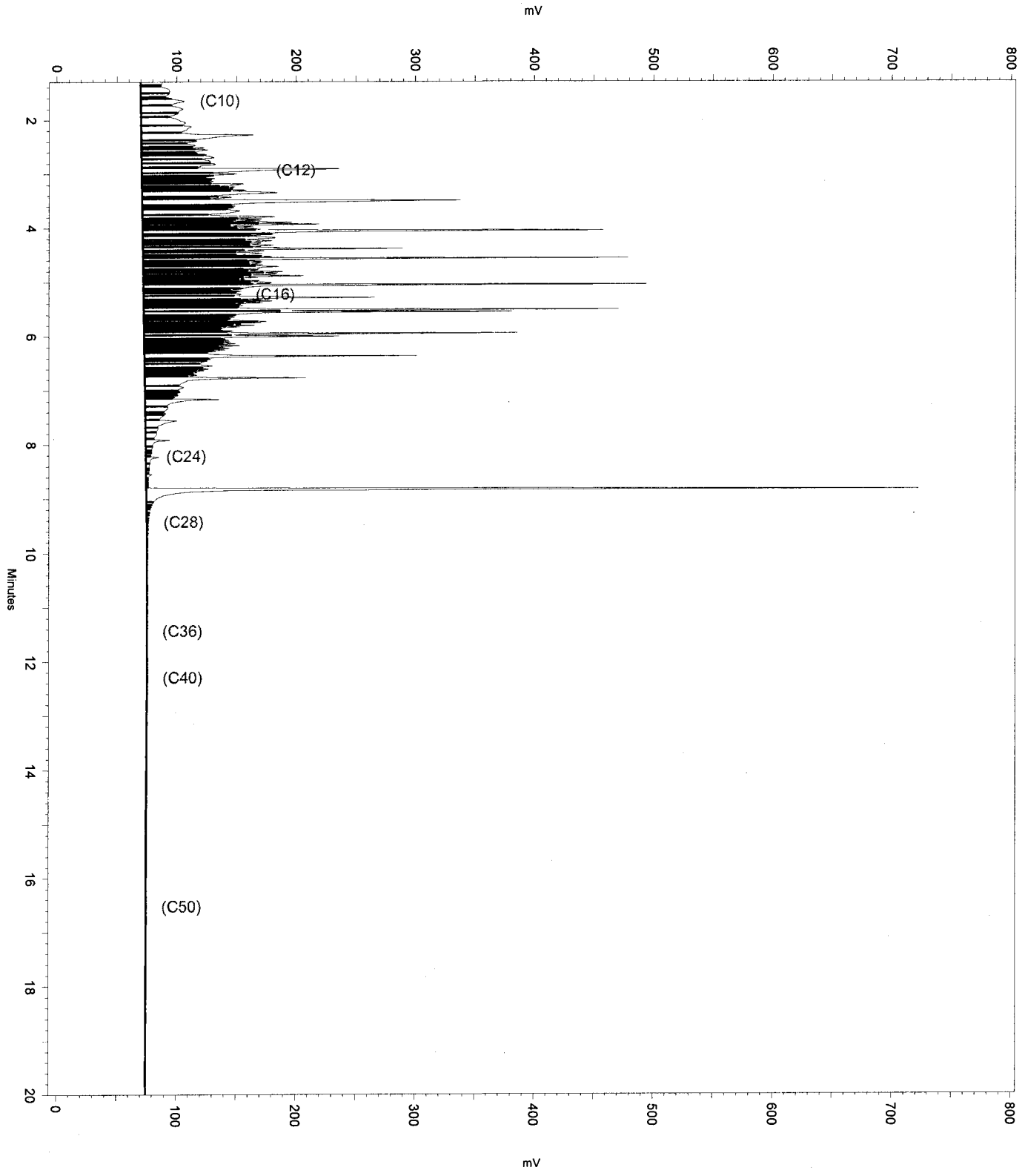
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b096

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	8.78	0.492	0

Sample Name: **ccv,s8079,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b096**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 6:05:37 AM
Analysis Date: 3/21/2008 7:57:47 AM
Instrument: GC15B Vial: 96 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

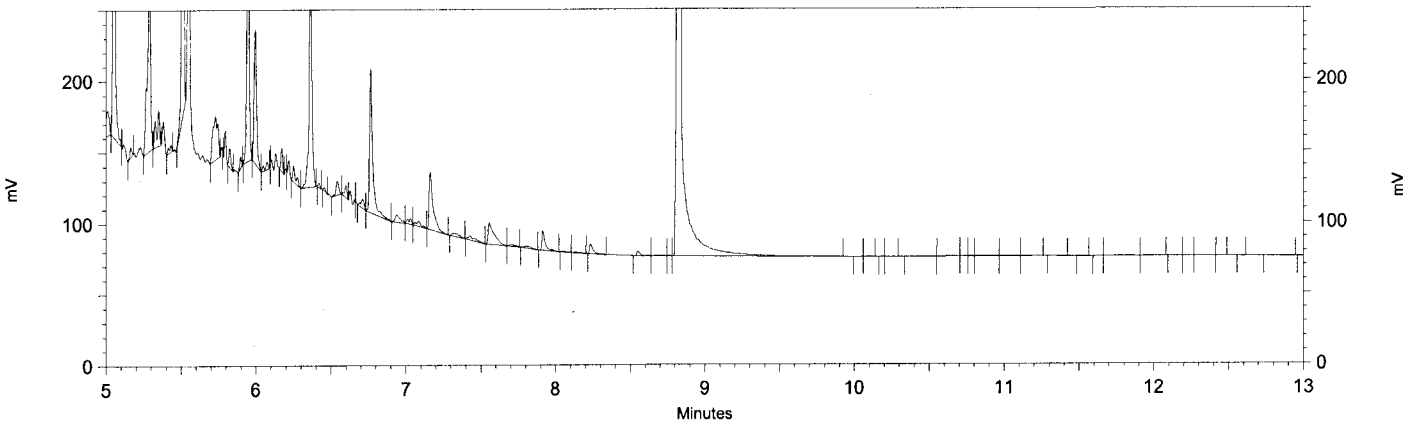
Sample Name: **ccv,s8079,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b096**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 6:05:37 AM
Analysis Date: 3/21/2008 6:25:46 AM
Instrument: GC15B Vial: 96 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.837	1259285	47.631



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\079b096_79FB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

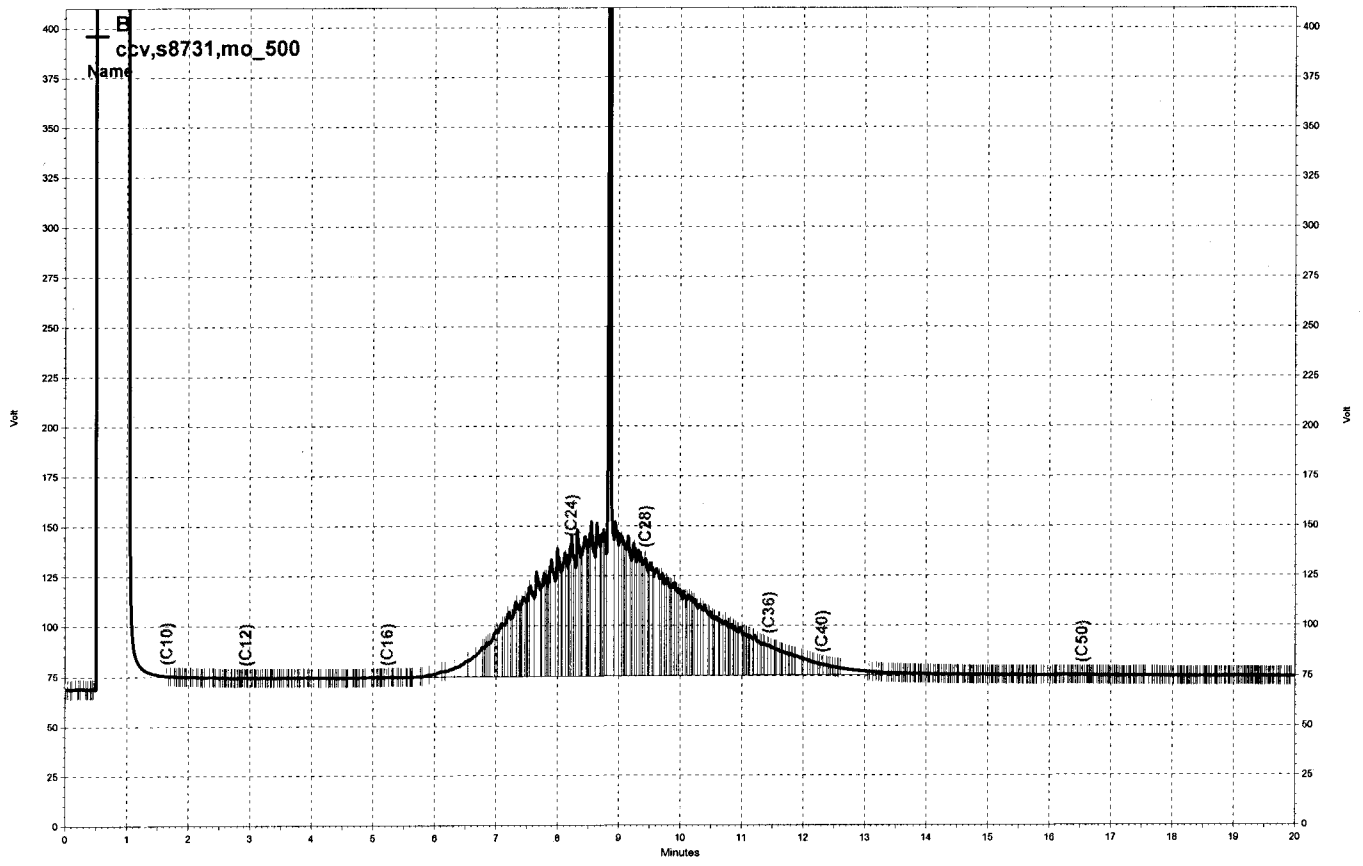
CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168114200097 File : 079b097 Time : 21-MAR-2008 06:32
Standards: S8731

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17373	500.0	477.1	mg/L	-5	15	
Hexacosane	167479943001	30-NOV-2007	26439	26330	50.00	49.79	mg/L	0	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168114200097



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b097, B

Sample Name: **ccv,s8731,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b097**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 6:32:53 AM
Analysis Date: 3/21/2008 7:58:11 AM
Instrument: GC15B Vial: 97 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	22332	0.998
JP8:10-16	22332	0.983
KER:10-16	22332	0.835
JP5:10-16	22332	0.852
DSL:10-20	355067	12.965
DSL:10-22	1587192	55.081
DSL:10-24	3650279	124.831
DSL:12-22	1578384	61.577
DSL:10-28	9669721	327.820
DSL:12-24	3641471	139.741
DSL:12-32	12466538	472.790
BUNKC:12-40	14151526	1512.666
TROIL:12-40	14151526	488.599
HYFL:12-40	14151526	580.287
MO:20-36	13298420	525.841
MO:22-36	12066295	531.653
MO:24-36	10003208	549.385
BUNKC:12-50	14267942	0.000
DSL:10-12	8808	0.000
DSL:12-16	13524	0.000
DSL:16-24	3627947	0.000
MO:28-36	3983766	498.474
MO:28-40	4490613	532.024
MO:22-32	10888154	526.249
DSL:12-14	5990	0.000
DSL:14-16	7534	0.000
DSL:16-18	11564	0.000
DSL:18-20	321171	0.000
DSL:20-22	1232125	0.000
DSL:22-24	2063087	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b097

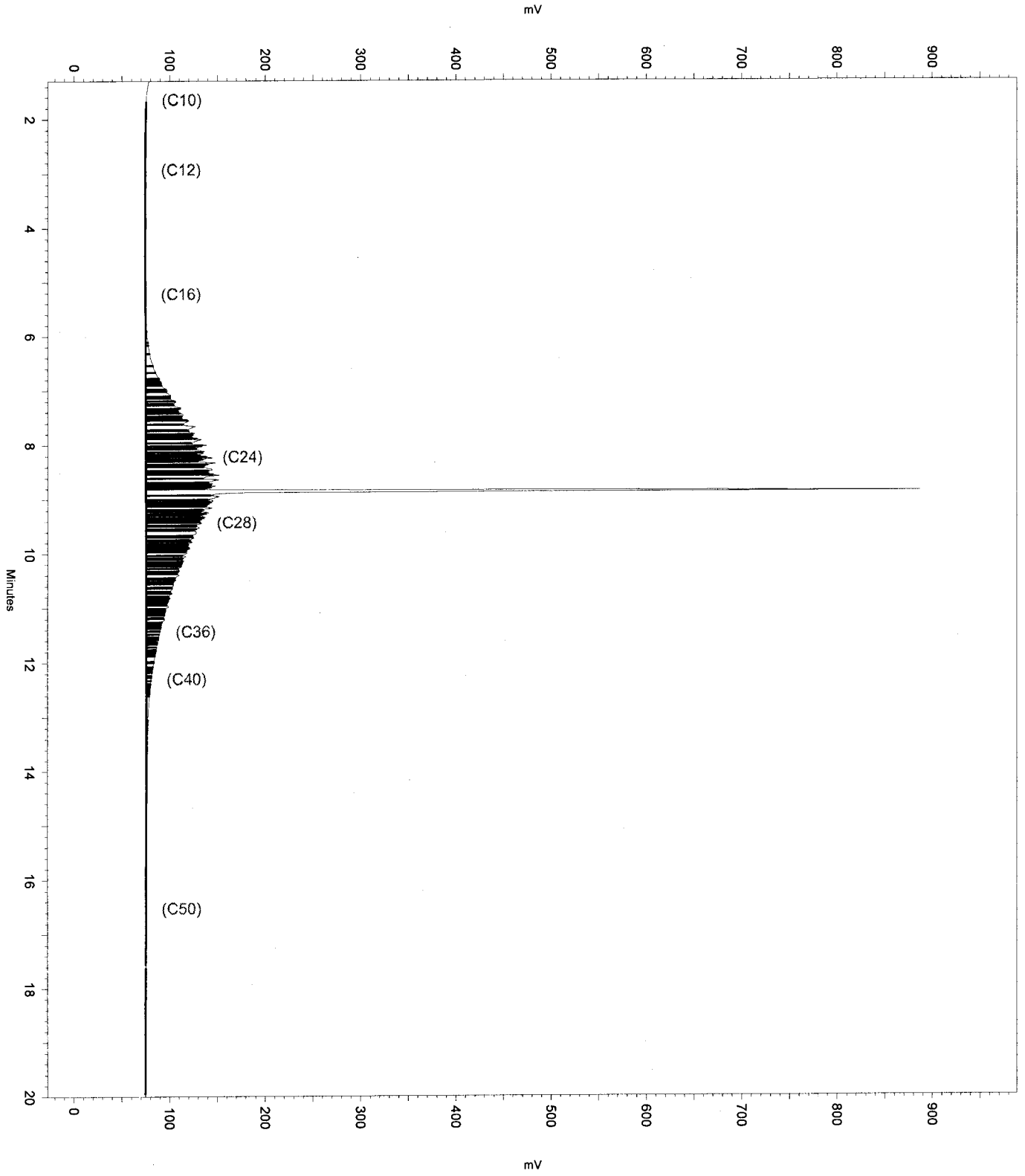
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

: 00321

Yes	Move BL Stop	5.642	14.286	0

DB322

Sample Name: **ccv,s8731,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b097**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 6:32:53 AM
Analysis Date: 3/21/2008 7:58:11 AM
Instrument: GC15B Vial: 97 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

: 00323

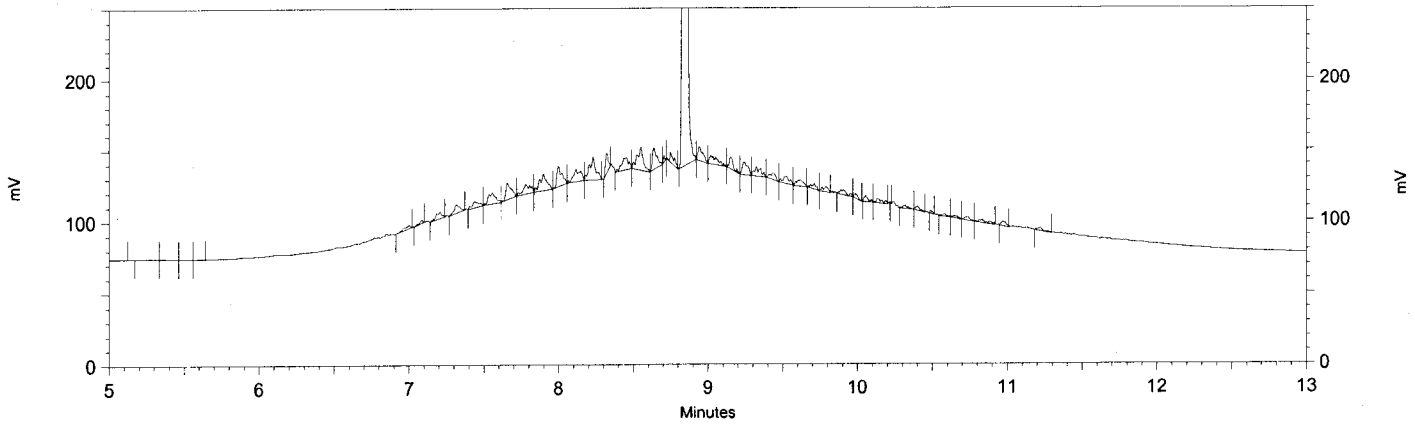
Sample Name: **ccv,s8731,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\079b097**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\079.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 6:32:53 AM
Analysis Date: 3/21/2008 6:53:01 AM
Instrument: GC15B Vial: 97 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.863	1316475	49.794



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\079b097_79FC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

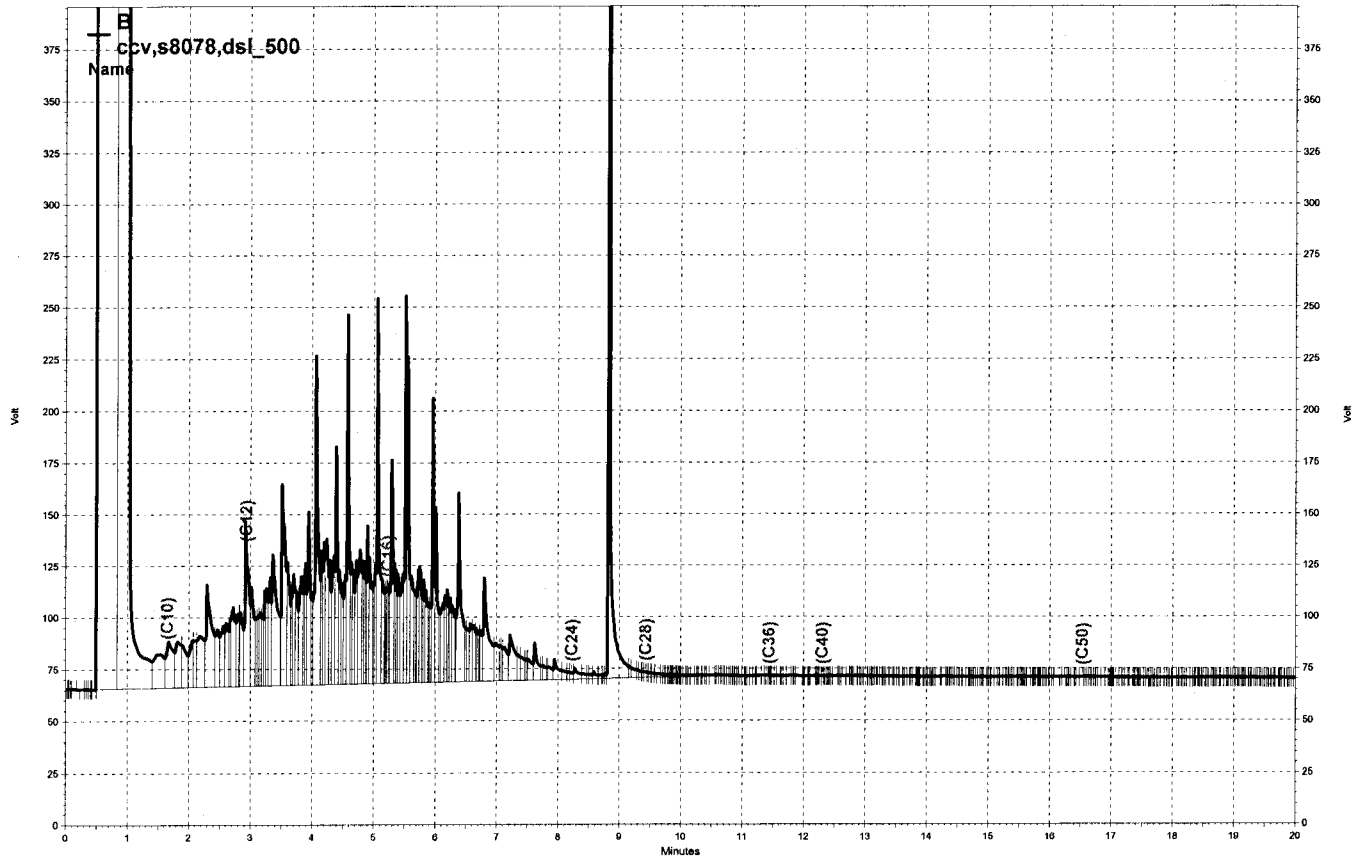
CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_500 IDF : 1.0
Seqnum : 168117153003 File : 081b003 Time : 21-MAR-2008 09:28
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	24849	500.0	476.8	mg/L	-5	15	
Hexacosane	167479943001	30-NOV-2007	26439	26276	50.00	49.69	mg/L	-1	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168117153003



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b003, B

Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 9:28:42 AM
Analysis Date: 3/21/2008 10:19:43 AM
Instrument: GC15B Vial: 3 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	9504394	424.699
JP8:10-16	9504394	418.389
KER:10-16	9504394	355.200
JP5:10-16	9504394	362.459
DSL:10-20	13920555	508.305
DSL:10-22	14440436	501.128
DSL:10-24	14671158	501.718
DSL:12-22	12193587	475.705
DSL:10-28	16102359	545.898
DSL:12-24	12424309	476.783
DSL:12-32	13910974	527.570
BUNKC:12-40	13929394	1488.922
TROIL:12-40	13929394	480.929
HYFL:12-40	13929394	571.178
MO:20-36	2251659	89.034
MO:22-36	1731778	76.304
MO:24-36	1501056	82.439
BUNKC:12-50	13952409	0.000
DSL:10-12	2246849	0.000
DSL:12-16	7257545	0.000
DSL:16-24	5166764	0.000
MO:28-36	69855	8.741
MO:28-40	73884	8.753
MO:22-32	1717387	83.005
DSL:12-14	3976703	0.000
DSL:14-16	3280842	0.000
DSL:16-18	2785697	0.000
DSL:18-20	1677431	0.000
DSL:20-22	519881	0.000
DSL:22-24	230722	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

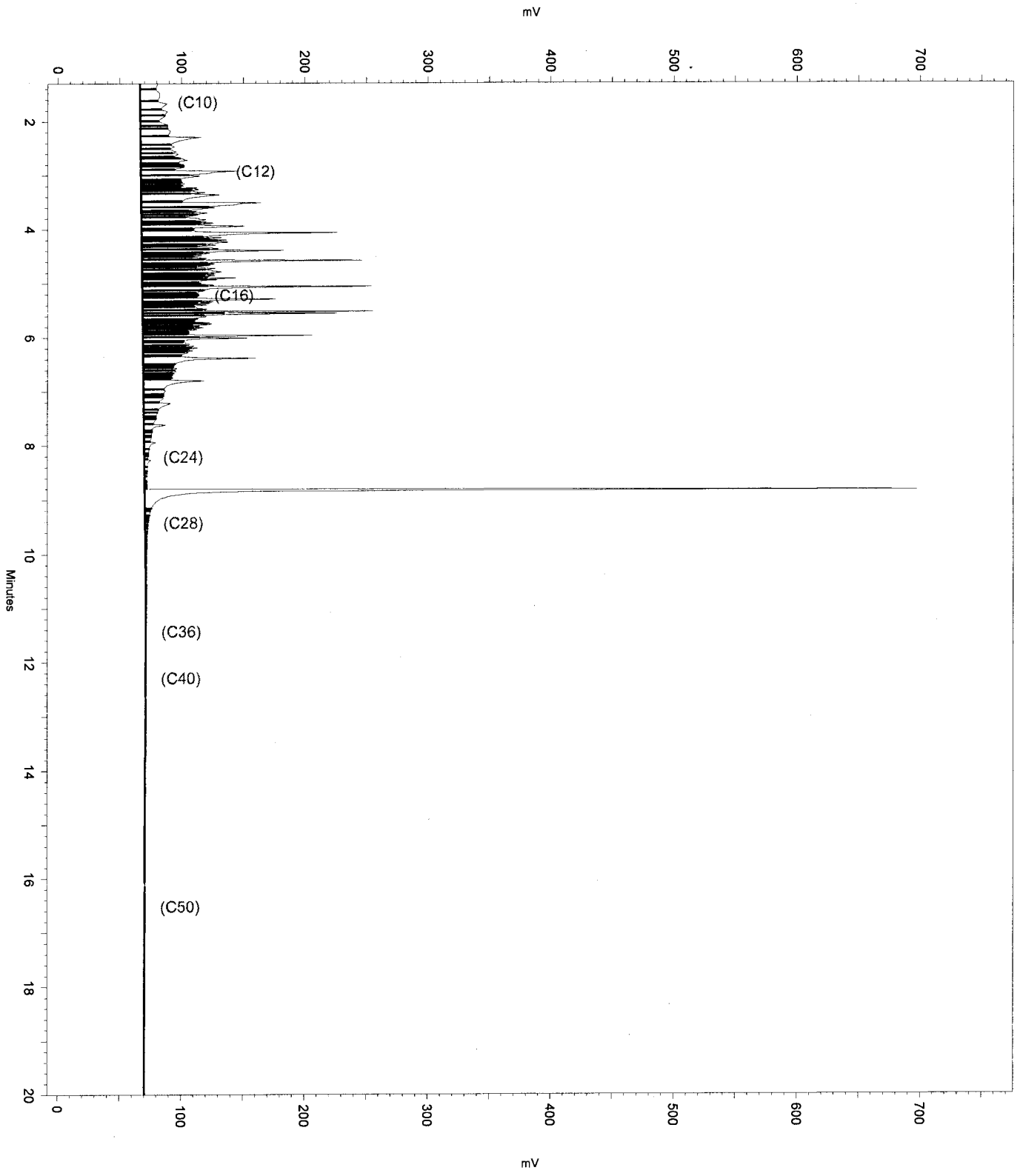
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	10.14	0.496	0

Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 9:28:42 AM
Analysis Date: 3/21/2008 10:19:43 AM
Instrument: GC15B Vial: 3 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

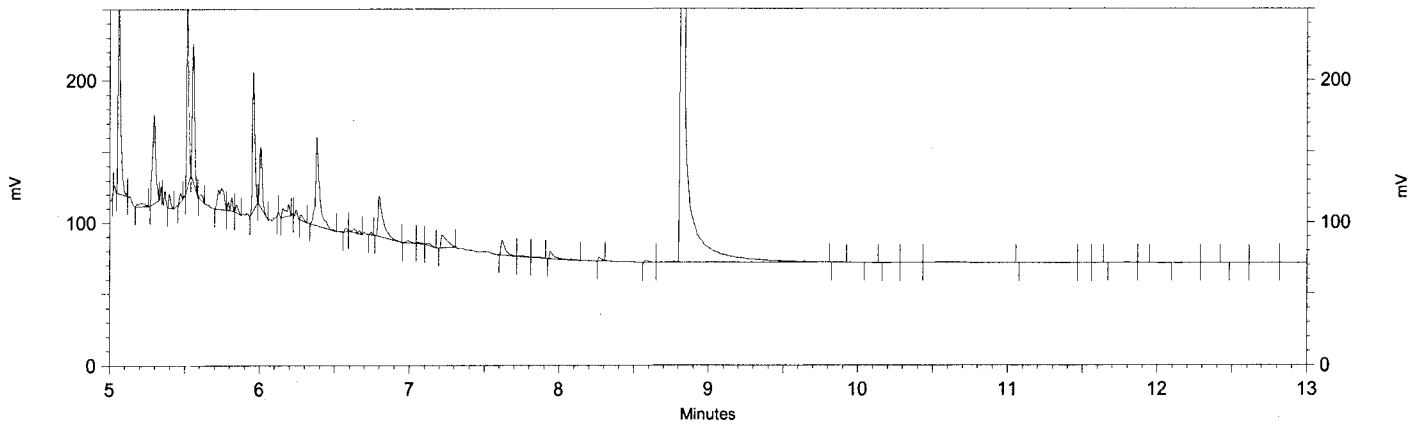
Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 9:28:42 AM
Analysis Date: 3/21/2008 9:48:51 AM
Instrument: GC15B Vial: 3 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.837	1313787	49.692



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\081b003_7A03.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

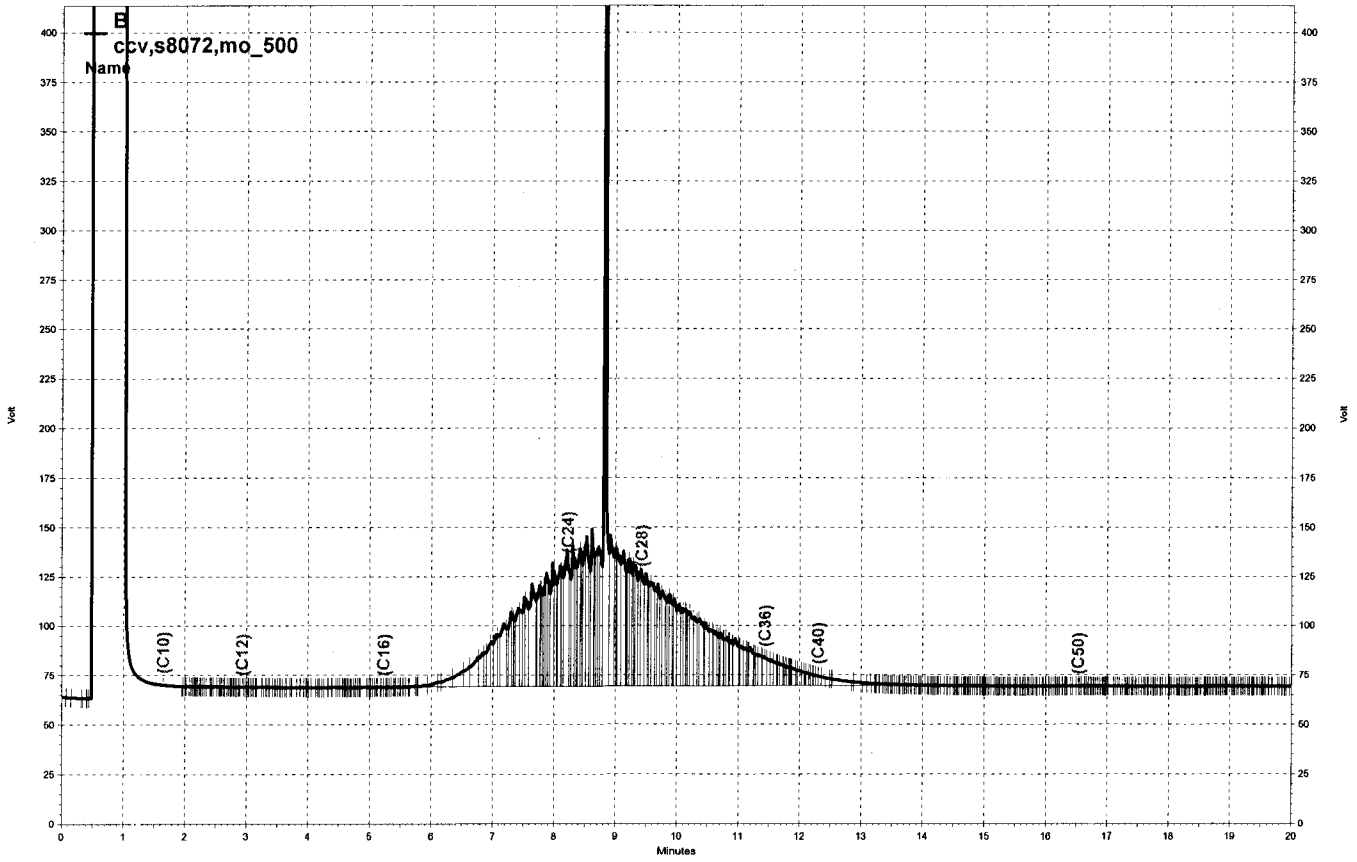
CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168117153004 File : 081b004 Time : 21-MAR-2008 09:56
Standards: S8072

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17030	500.0	467.6	mg/L	-6	15	
Hexacosane	167479943001	30-NOV-2007	26439	25615	50.00	48.44	mg/L	-3	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168117153004



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b004, B

Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 9:56:20 AM
Analysis Date: 3/21/2008 10:20:11 AM
Instrument: GC15B Vial: 4 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	14149	0.632
JP8:10-16	14149	0.623
KER:10-16	14149	0.529
JP5:10-16	14149	0.540
DSL:10-20	309530	11.302
DSL:10-22	1723805	59.821
DSL:10-24	3793974	129.745
DSL:12-22	1719420	67.079
DSL:10-28	9806760	332.466
DSL:12-24	3789589	145.426
DSL:12-32	12409926	470.643
BUNKC:12-40	14032071	1499.898
TROIL:12-40	14032071	484.474
HYFL:12-40	14032071	575.388
MO:20-36	13280119	525.117
MO:22-36	11865844	522.821
MO:24-36	9795675	537.987
BUNKC:12-50	14114778	0.000
DSL:10-12	4385	0.000
DSL:12-16	9764	0.000
DSL:16-24	3779825	0.000
MO:28-36	3782889	473.339
MO:28-40	4229696	501.112
MO:22-32	10690506	516.696
DSL:12-14	5142	0.000
DSL:14-16	4622	0.000
DSL:16-18	8879	0.000
DSL:18-20	286502	0.000
DSL:20-22	1414275	0.000
DSL:22-24	2070169	0.000

---< General Method Parameters >----------

No items selected for this section

---< Det B >----------

No items selected for this section

Integration Events
==========

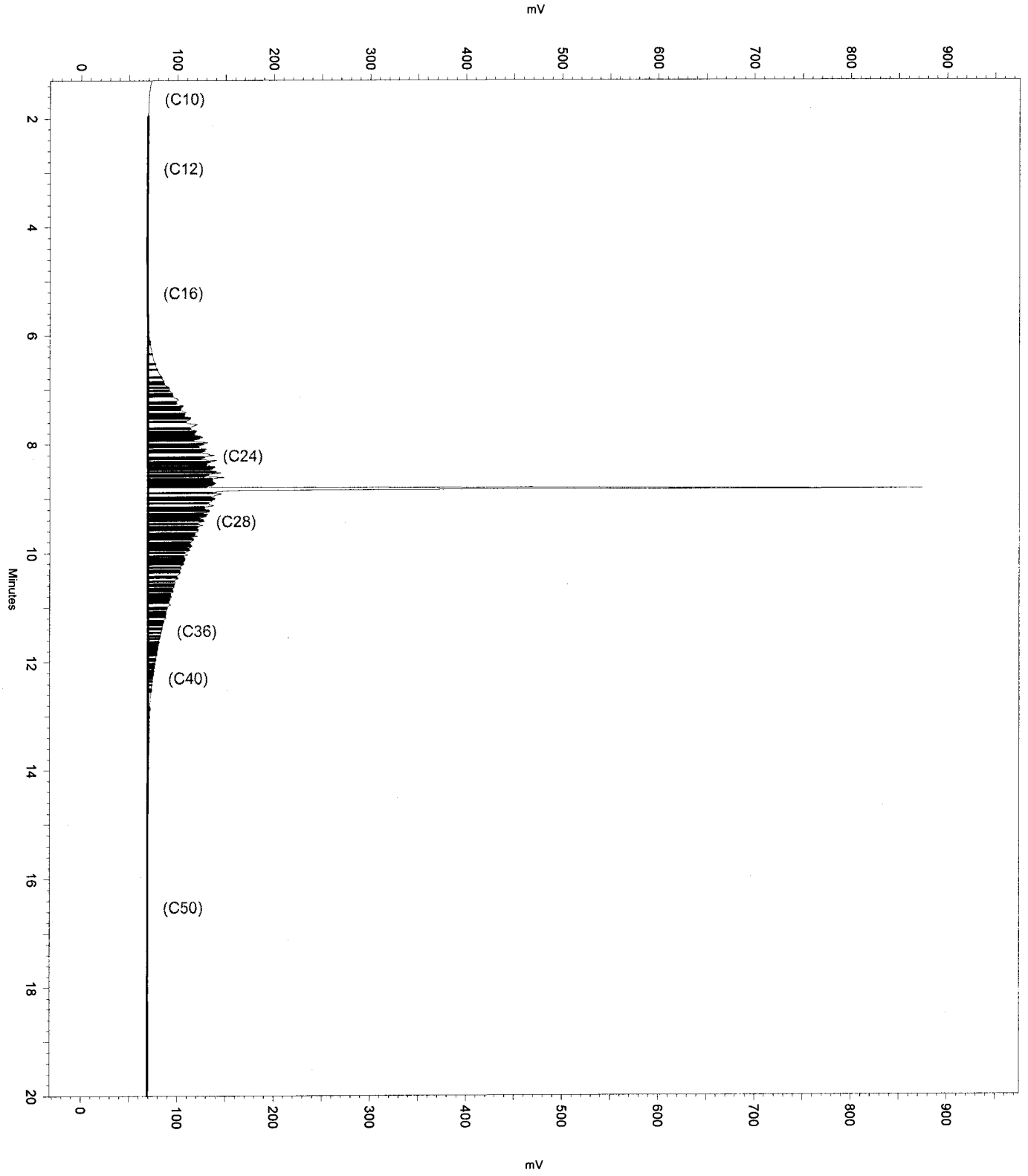
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Stop	11.857	13.968	0

Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 9:56:20 AM
Analysis Date: 3/21/2008 10:20:11 AM
Instrument: GC15B Vial: 4 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

00335

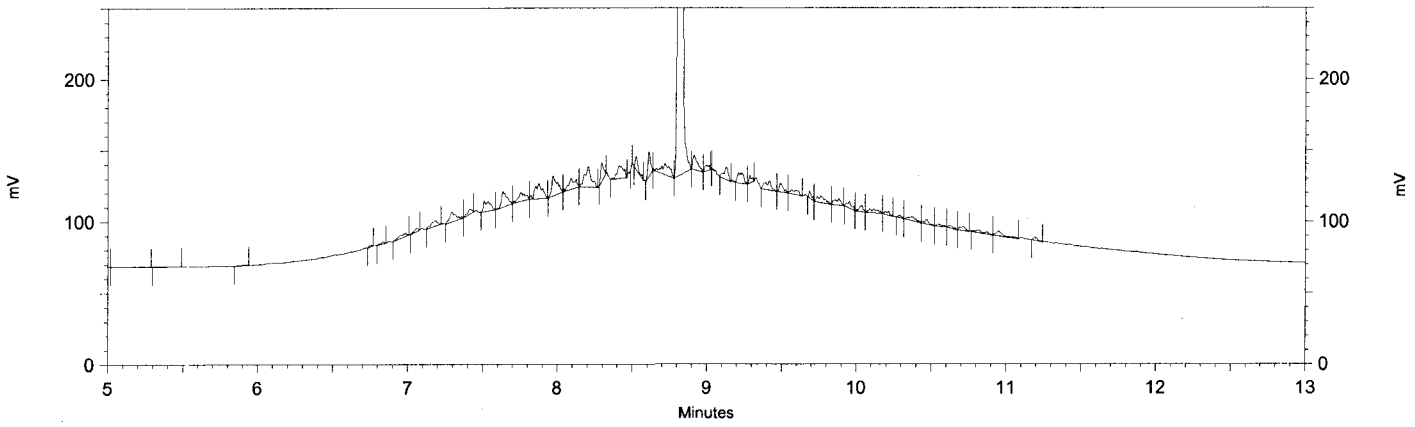
Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 9:56:20 AM
Analysis Date: 3/21/2008 10:16:28 AM
Instrument: GC15B Vial: 4 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.835	1280736	48.442



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\081b004_7A04.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

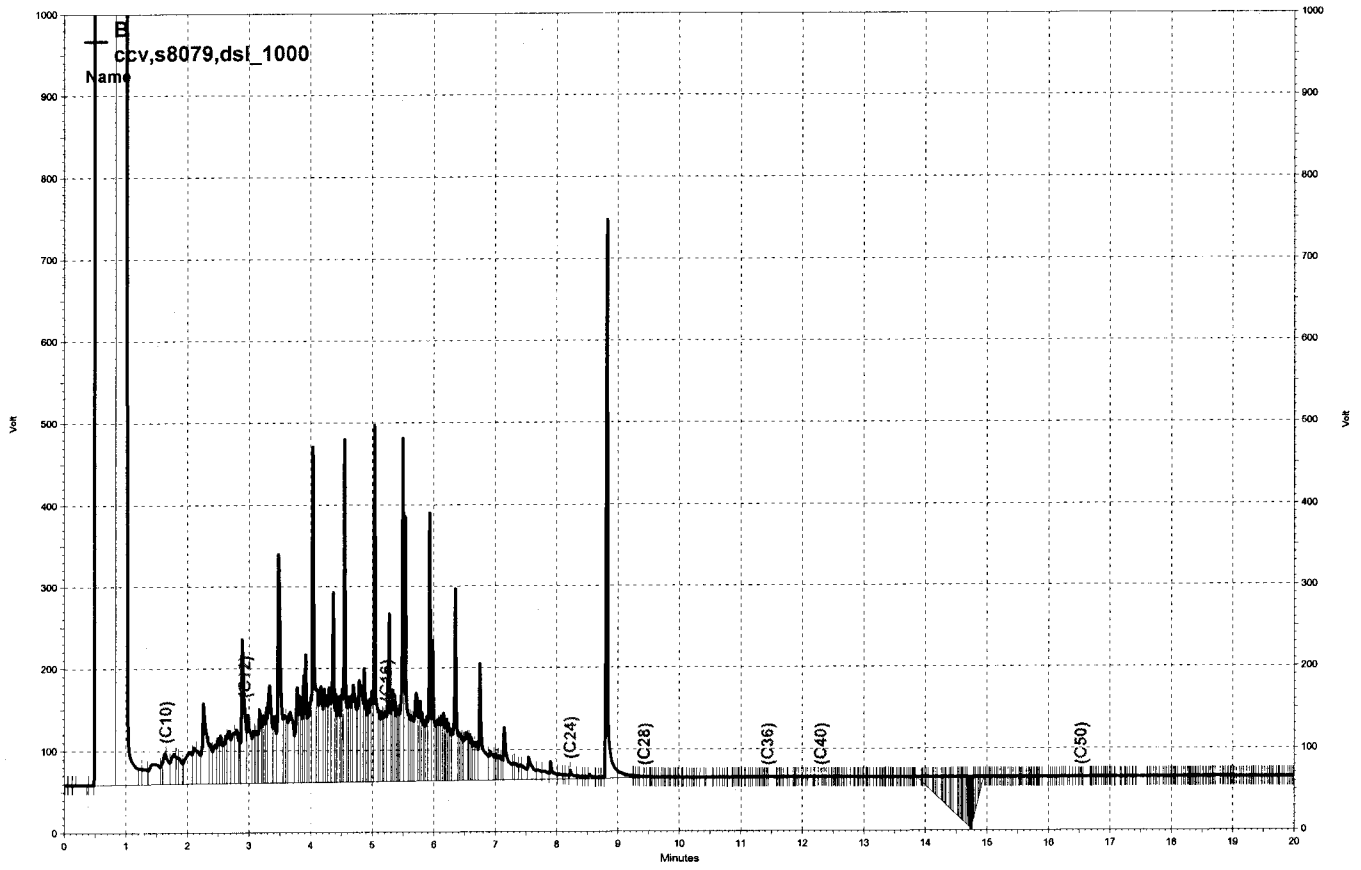
CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 168117153010.1 File : 081b010 Time : 21-MAR-2008 12:48
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	167416763001	18-OCT-2007	26059	23412	1000	898.4	mg/L	-10	15	
Hexacosane	167479943001	30-NOV-2007	26439	26246	50.00	49.64	mg/L	-1	15	

Analyst: LH Date: 03/21/08 Reviewer: JDG Date: 03/24/08

168117153010.1



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b010, B

Sample Name: **ccv,s8079,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 12:48:56 PM
Analysis Date: 3/21/2008 4:34:10 PM
Instrument: GC15B Vial: 10 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	17568852	785.055
JP8:10-16	17568852	773.392
KER:10-16	17568852	656.586
JP5:10-16	17568852	670.004
DSL:10-20	25763392	940.742
DSL:10-22	26838020	931.363
DSL:10-24	27096336	926.630
DSL:12-22	23153452	903.280
DSL:10-28	28578866	968.874
DSL:12-24	23411768	898.427
DSL:12-32	24924550	945.257
BUNKC:12-40	24931932	2664.992
TROIL:12-40	24931932	860.806
HYFL:12-40	24931932	1022.340
MO:20-36	2850107	112.698
MO:22-36	1775476	78.229
MO:24-36	1517162	83.324
BUNKC:12-50	26967198	0.000
DSL:10-12	3684574	0.000
DSL:12-16	13884277	0.000
DSL:16-24	9527494	0.000
MO:28-36	34628	4.333
MO:28-40	37631	4.458
MO:22-32	1771099	85.601
DSL:12-14	7865761	0.000
DSL:14-16	6018516	0.000
DSL:16-18	5286174	0.000
DSL:18-20	2908375	0.000
DSL:20-22	1074631	0.000
DSL:22-24	258314	0.000

---< General Method Parameters >----------

No items selected for this section

---< Det B >----------

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

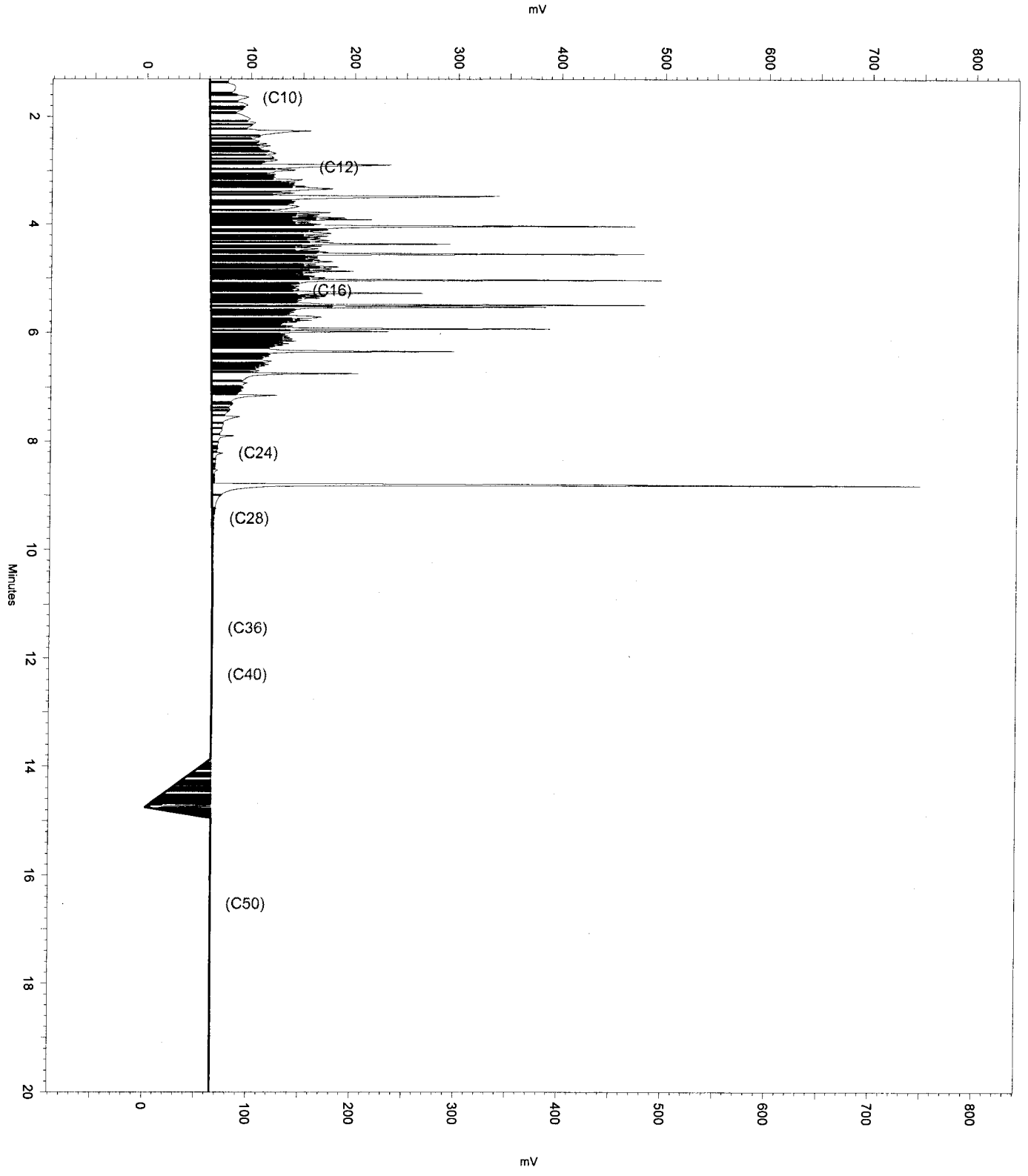
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

Yes	Move BL Start	10.068	0.48	0

Sample Name: **ccv,s8079,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 12:48:56 PM
Analysis Date: 3/21/2008 4:34:10 PM
Instrument: GC15B Vial: 10 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

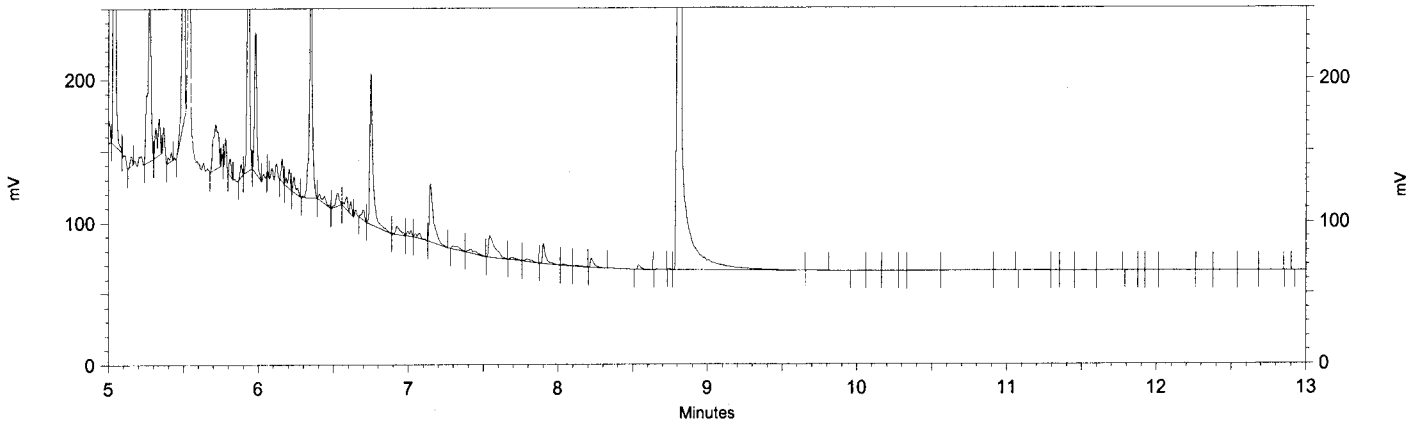
Sample Name: **ccv,s8079,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 12:48:56 PM
Analysis Date: 3/21/2008 1:09:06 PM
Instrument: GC15B Vial: 10 Operator: lims2k3\teh3
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.822	1312284	49.635



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10079\081b010_7A0A.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

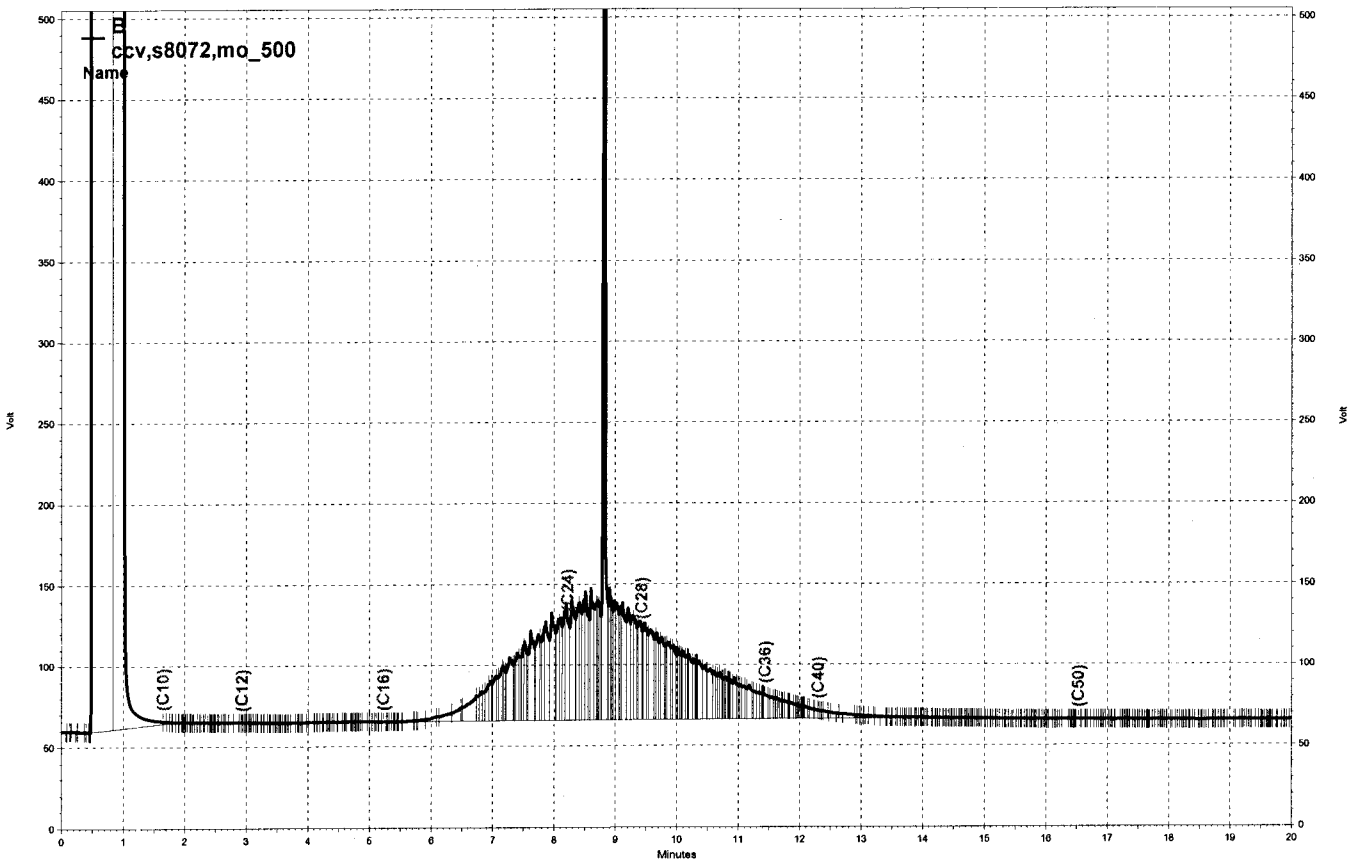
Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168117153011 File : 081b011 Time : 21-MAR-2008 13:16
Standards: S8072

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	167416763002	18-OCT-2007	18208	17550	500.0	481.9	mg/L	-4	15	
Hexacosane	167479943001	30-NOV-2007	26439	26516	50.00	50.15	mg/L	0	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

168117153011

:00343



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b011, B

Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 1:16:59 PM
Analysis Date: 3/21/2008 1:57:03 PM
Instrument: GC15B Vial: 11 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	46476	2.077
JP8:10-16	46476	2.046
KER:10-16	46476	1.737
JP5:10-16	46476	1.772
DSL:10-20	402215	14.687
DSL:10-22	1832642	63.598
DSL:10-24	4131541	141.289
DSL:12-22	1817607	70.910
DSL:10-28	10155963	344.305
DSL:12-24	4116506	157.971
DSL:12-32	12919908	489.984
BUNKC:12-40	14668476	1567.923
TROIL:12-40	14668476	506.447
HYFL:12-40	14668476	601.484
MO:20-36	13830074	546.864
MO:22-36	12399647	546.341
MO:24-36	10100748	554.742
BUNKC:12-50	14820486	0.000
DSL:10-12	15035	0.000
DSL:12-16	31441	0.000
DSL:16-24	4085065	0.000
MO:28-36	4076326	510.055
MO:28-40	4527548	536.400
MO:22-32	11102301	536.599
DSL:12-14	14521	0.000
DSL:14-16	16920	0.000
DSL:16-18	34450	0.000
DSL:18-20	341811	0.000
DSL:20-22	1430427	0.000
DSL:22-24	2298899	0.000

---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.2	0	0
Yes	Reset Baseline	0.835	0	0
Yes	Force Peak Stop	1	0	0
Yes	Reset Baseline	1.357	0	0
Yes	Reset Baseline at Valley	3.238	0	0
Yes	Reset Baseline at Valley	11.85	0	0
Yes	Reset Baseline	12.663	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b011

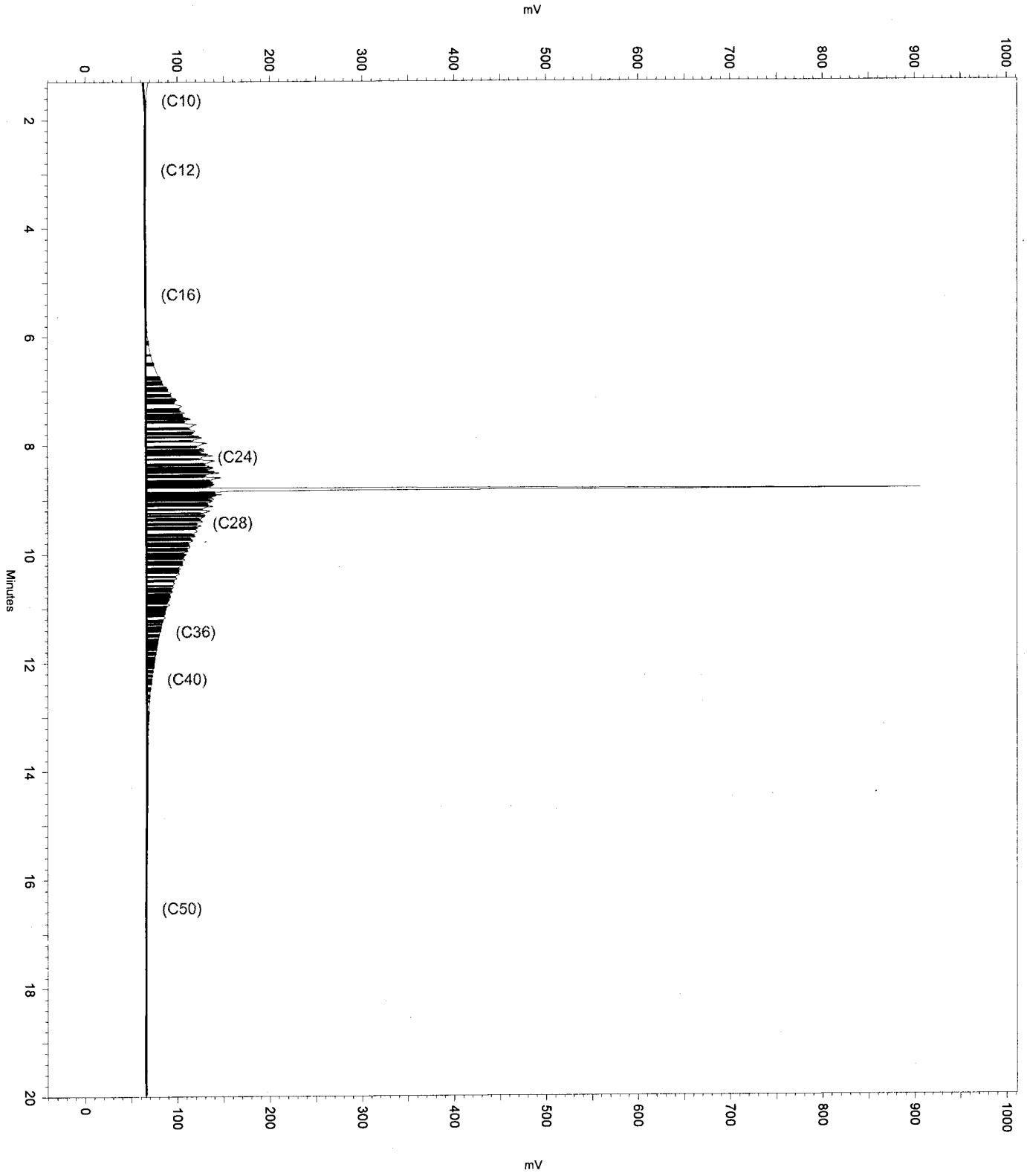
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

080345

Yes	Move BL Start	1.792	0.476	0
Yes	Manual Peak	8.766	8.865	0
Yes	Move BL Start	13.822	5.47	0

00346

Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bteh073b.met
Run Date: 3/21/2008 1:16:59 PM
Analysis Date: 3/21/2008 1:57:03 PM
Instrument: GC15B Vial: 11 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1



 Curtis & Tompkins Ltd.

00347

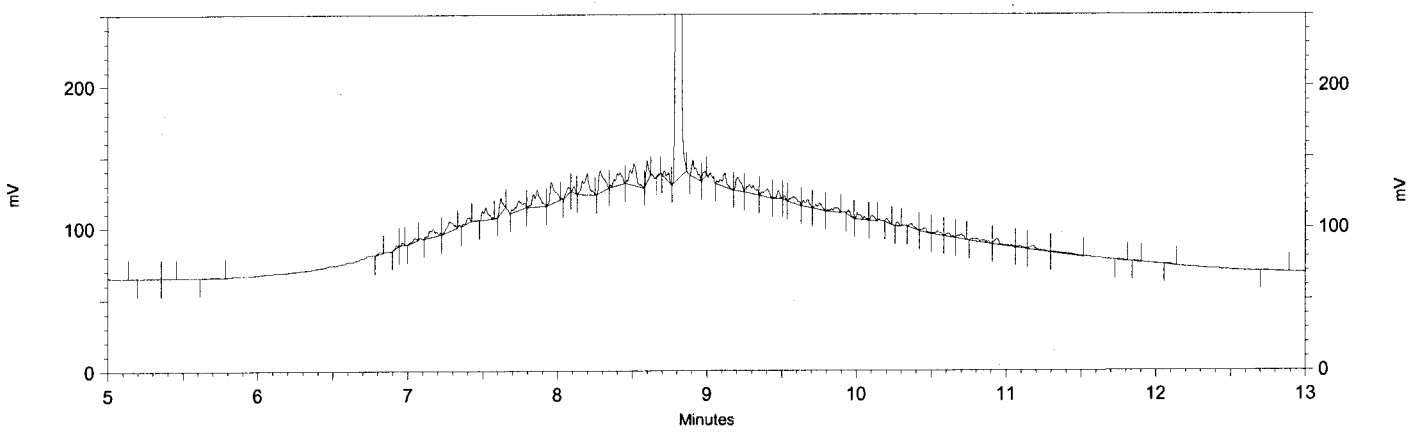
Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC15B\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC15B\Method\bsur073b.met
Run Date: 3/21/2008 1:16:59 PM
Analysis Date: 3/21/2008 1:55:59 PM
Instrument: GC15B Vial: 11 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC15

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.825	1325801	50.147



---< General Method Parameters >---

No items selected for this section

---< Det B >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	10
Yes	Valley to Valley	0	20	0
Yes	Integration Off	0	1	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC15B\Data\081b011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.766	8.865	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

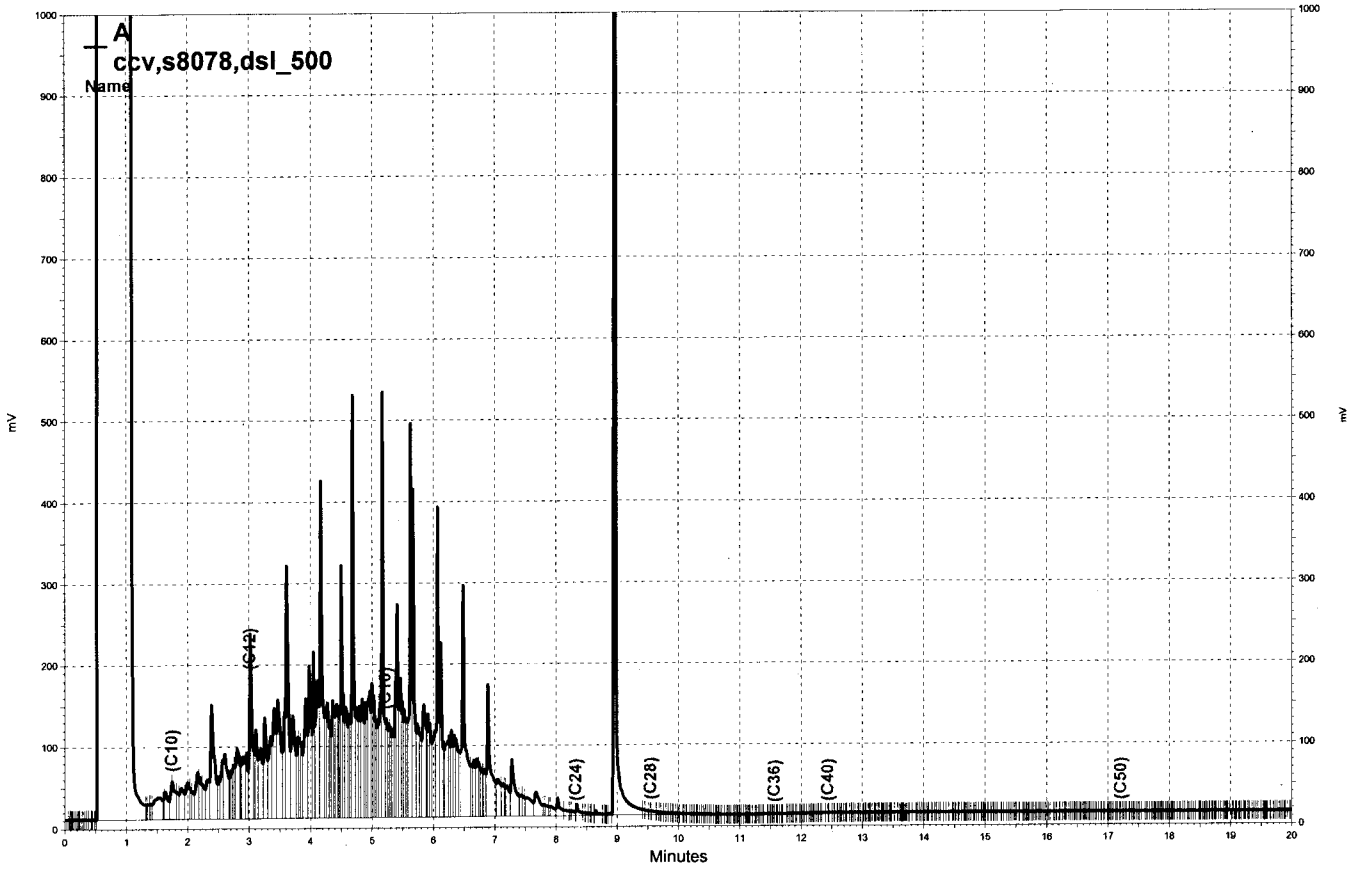
Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 178117121004 File : 081a004 Time : 21-MAR-2008 09:23
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	61841	500.0	509.2	mg/L	2	15	
Hexacosane	178035189001	24-JAN-2008	65927	70560	50.00	53.51	mg/L	7	15	

Analyst: ATL Date: 03/21/08 Reviewer: LH Date: 03/21/08

178117121004

00349



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a004, A

Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 9:23:24 AM
Analysis Date: 3/21/2008 10:43:26 AM
Instrument: GC17A Vial: 4 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	21523124	428.219
JP8:10-16	21523124	463.451
KER:10-16	21523124	351.410
JP5:10-16	21523124	342.949
DSL:10-20	33339876	512.195
DSL:10-22	34496896	504.852
DSL:10-24	34977636	505.628
DSL:12-22	30439798	508.379
DSL:10-28	38684884	556.291
DSL:12-24	30920536	509.214
DSL:12-32	34732760	567.570
BUNKC:12-40	34750912	1417.142
HYFL:12-40	34750912	477.379
MO:22-32	4292947	87.739
MO:20-36	5462281	89.510
MO:22-36	4305261	78.820
MO:24-36	3824522	86.535
BUNKC:12-50	34796448	1221.176
MO:28-36	117277	5.917
MO:28-40	123121	5.576
DSL:10-12	4057101	0.000
DSL:12-16	17466024	0.000
DSL:16-24	13454512	0.000
TROIL:12-40	34750912	519.190

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

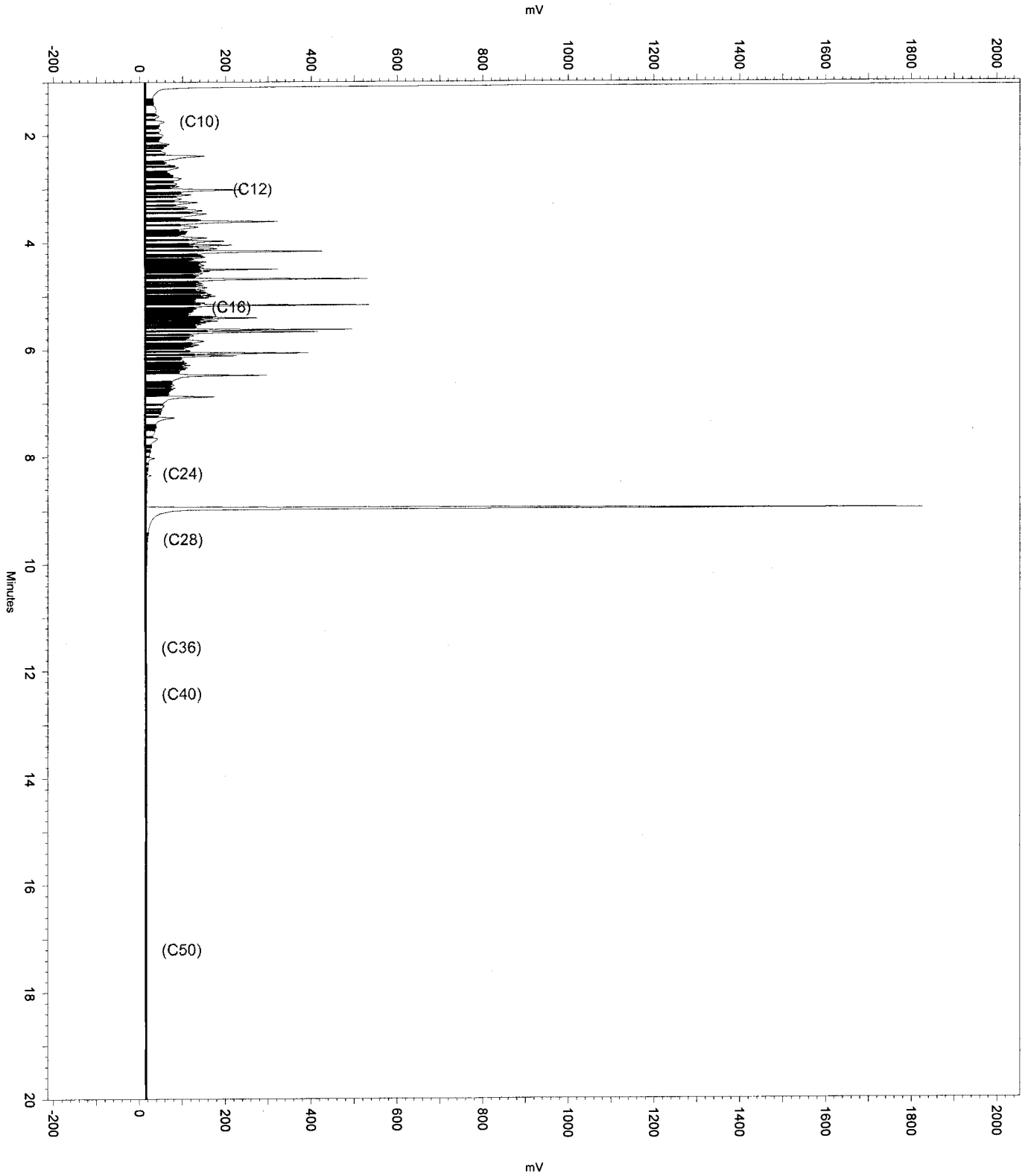
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	8.902	9.7	0
Yes	Reset Baseline at Valley	12.499	0	0

Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 9:23:24 AM
Analysis Date: 3/21/2008 10:43:26 AM
Instrument: GC17A Vial: 4 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



 Curtis & Tompkins Ltd.

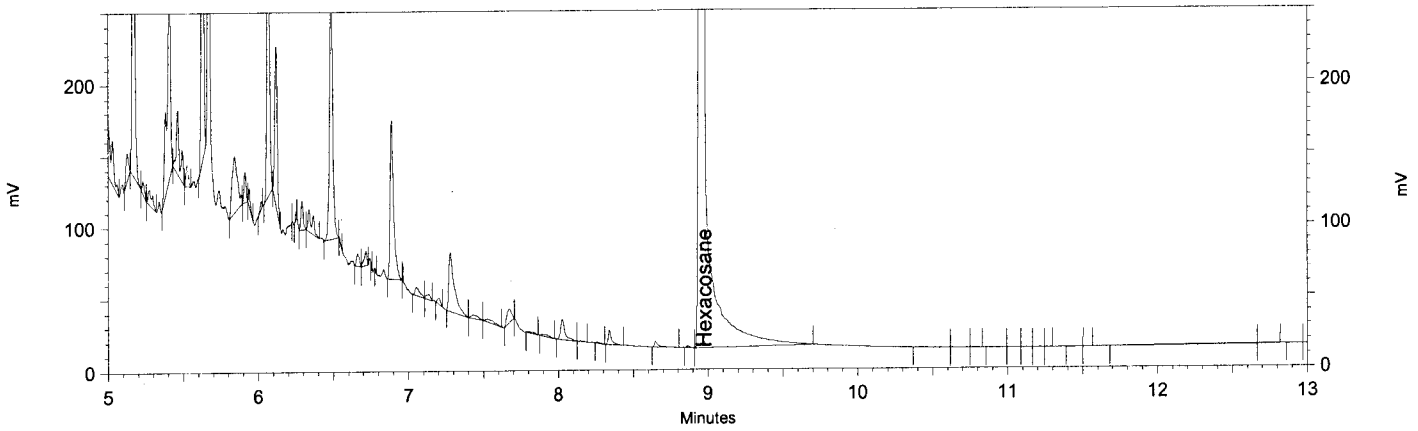
Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur081.met
Run Date: 3/21/2008 9:23:24 AM
Analysis Date: 3/21/2008 10:42:51 AM
Instrument: GC17A Vial: 4 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.975	3528008	53.514



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a004

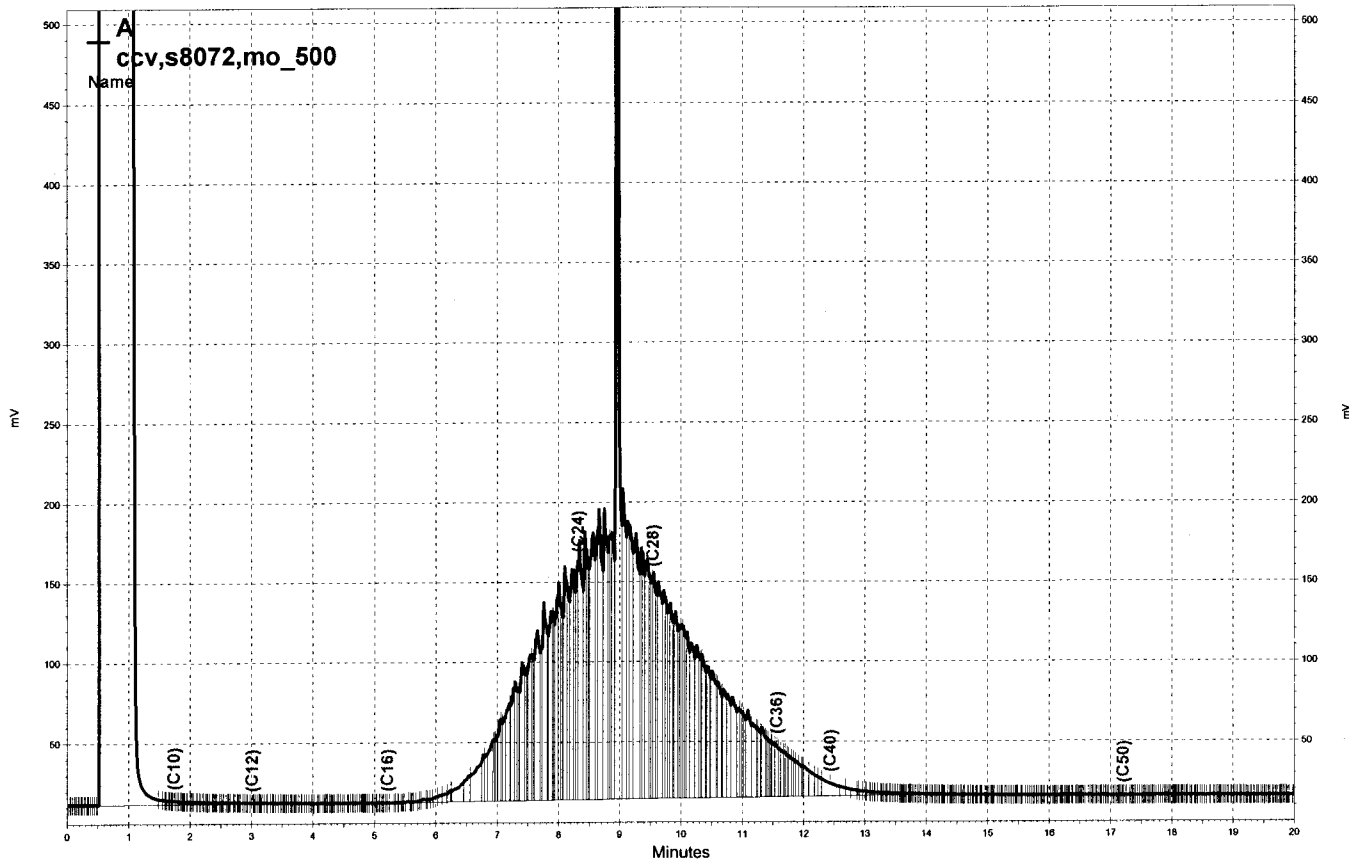
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.902	9.7	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178117121005 File : 081a005 Time : 21-MAR-2008 09:50
Standards: S8072

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	41683	500.0	471.6	mg/L	-6	15	
Hexacosane	178035189001	24-JAN-2008	65927	61641	50.00	46.75	mg/L	-7	15	

Analyst: ATL Date: 03/21/08 Reviewer: LH Date: 03/21/08



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a005, A

Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a005**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 9:50:46 AM
Analysis Date: 3/21/2008 10:43:46 AM
Instrument: GC17A Vial: 5 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	113213	2.252
JP8:10-16	113213	2.438
KER:10-16	113213	1.848
JP5:10-16	113213	1.804
DSL:10-20	395793	6.081
DSL:10-22	3210238	46.981
DSL:10-24	8303210	120.029
DSL:12-22	3121378	52.131
DSL:10-28	22851224	328.602
DSL:12-24	8214350	135.278
DSL:12-32	29490014	481.898
BUNKC:12-40	32973106	1344.643
HYFL:12-40	32973106	452.957
MO:22-32	26368634	538.919
MO:20-36	31831112	521.615
MO:22-36	29016664	531.232
MO:24-36	23923688	541.305
BUNKC:12-50	33135184	1162.874
MO:28-36	9375673	473.004
MO:28-40	10210737	462.458
DSL:10-12	88860	0.000
DSL:12-16	24353	0.000
DSL:16-24	8189997	0.000
TROIL:12-40	32973106	492.629

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

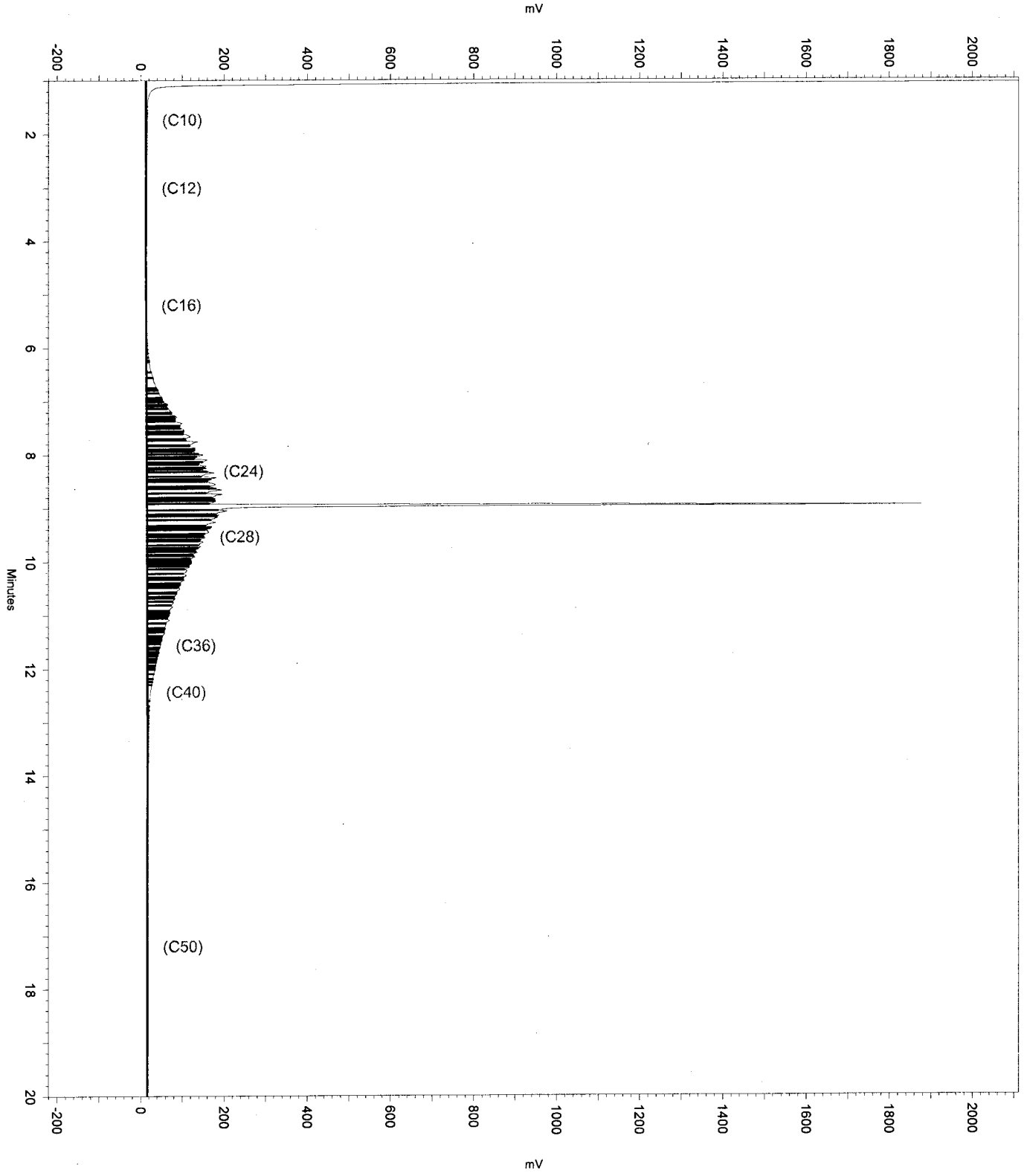
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.393	14.135	0

00356

Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a005**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 9:50:46 AM
Analysis Date: 3/21/2008 10:43:46 AM
Instrument: GC17A Vial: 5 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



 Curtis & Tompkins Ltd.

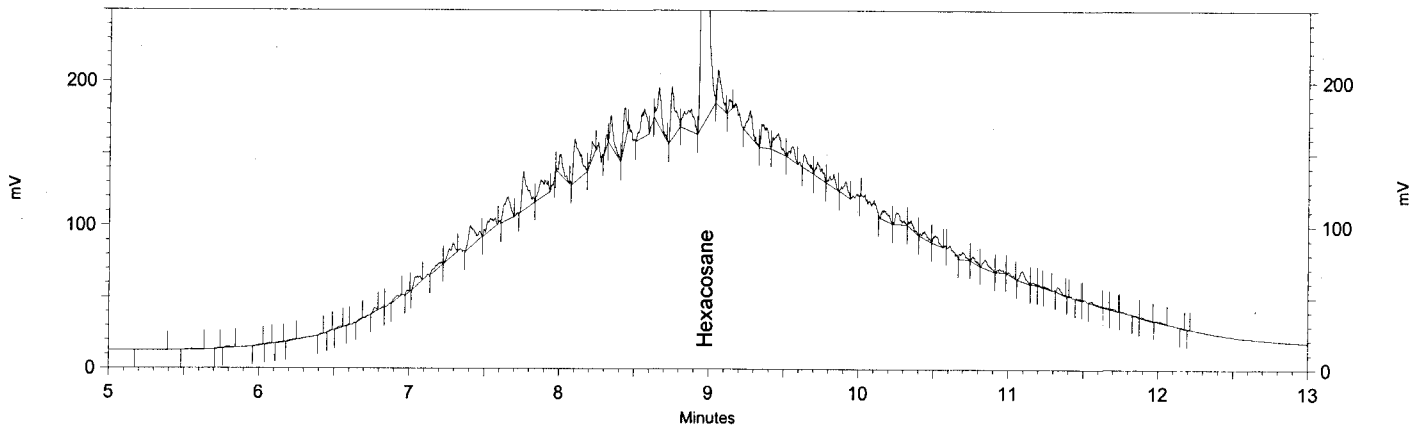
Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a005**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur081.met
Run Date: 3/21/2008 9:50:46 AM
Analysis Date: 3/21/2008 10:45:52 AM
Instrument: GC17A Vial: 5 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.977	3082062	46.750



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Stop	5.393	14.135	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

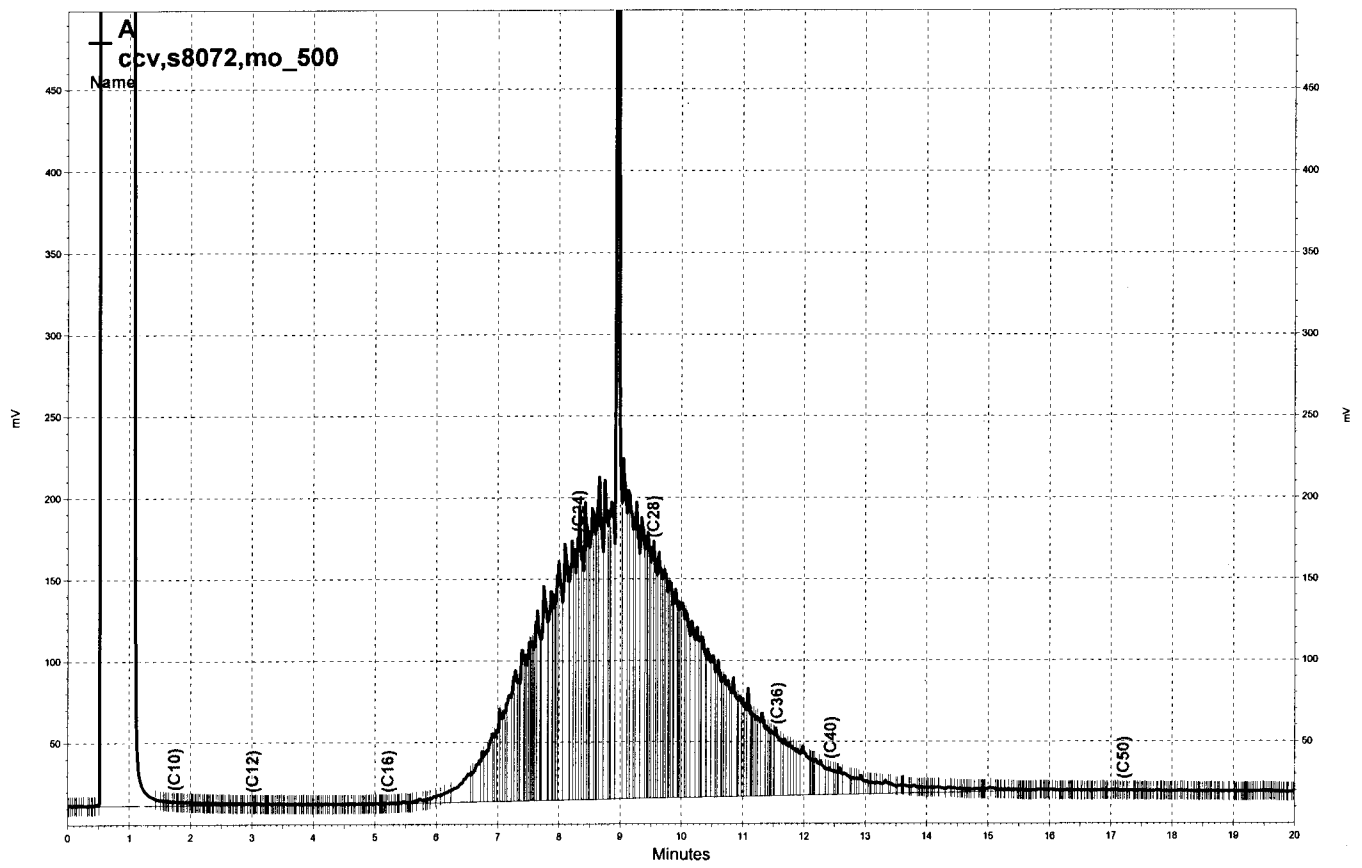
Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178117121013 File : 081a013 Time : 21-MAR-2008 14:31
Standards: S8072

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	45683	500.0	516.8	mg/L	3	15	
Hexacosane	178035189001	24-JAN-2008	65927	68205	50.00	51.73	mg/L	3	15	

Analyst: JDG Date: 03/21/08 Reviewer: LH Date: 03/21/08

178117121013

00359



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a013, A

Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a013**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 2:31:45 PM
Analysis Date: 3/21/2008 3:00:27 PM
Instrument: GC17A Vial: 13 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	145475	2.894
JP8:10-16	145475	3.132
KER:10-16	145475	2.375
JP5:10-16	145475	2.318
DSL:10-20	911772	14.007
DSL:10-22	4149299	60.724
DSL:10-24	9456292	136.698
DSL:12-22	4046774	67.586
DSL:10-28	25316824	364.058
DSL:12-24	9353767	154.042
DSL:12-32	32484384	530.830
BUNKC:12-40	36829044	1501.888
HYFL:12-40	36829044	505.927
MO:22-32	28437612	581.204
MO:20-36	34796204	570.204
MO:22-36	31558684	577.771
MO:24-36	26251692	593.979
BUNKC:12-50	37749040	1324.799
MO:28-36	10391157	524.235
MO:28-40	11614742	526.048
DSL:10-12	102525	0.000
DSL:12-16	42950	0.000
DSL:16-24	9310817	0.000
TROIL:12-40	36829044	550.238

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

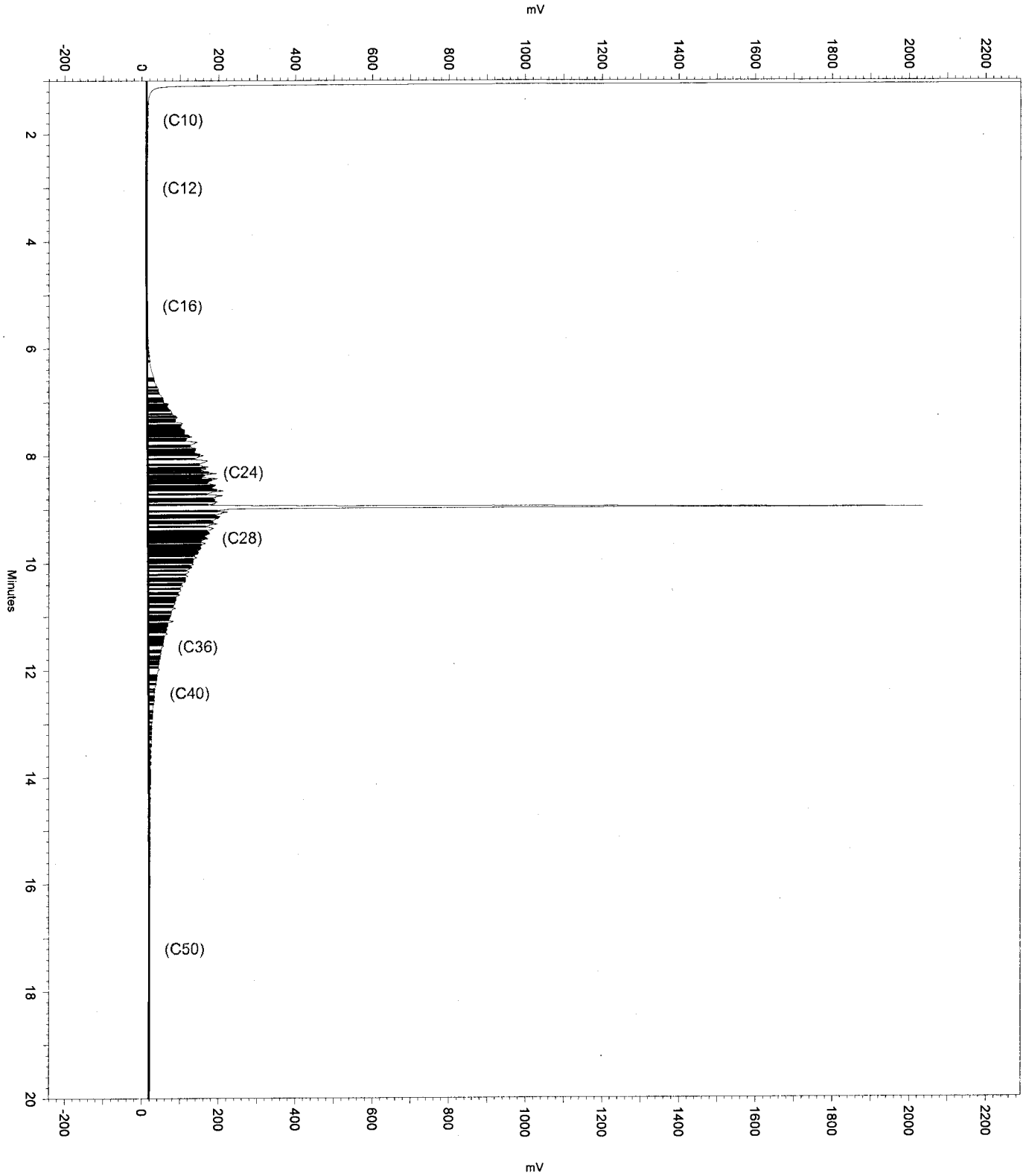
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

00361

Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a013**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 2:31:45 PM
Analysis Date: 3/21/2008 3:00:27 PM
Instrument: GC17A Vial: 13 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



 Curtis & Tompkins Ltd.

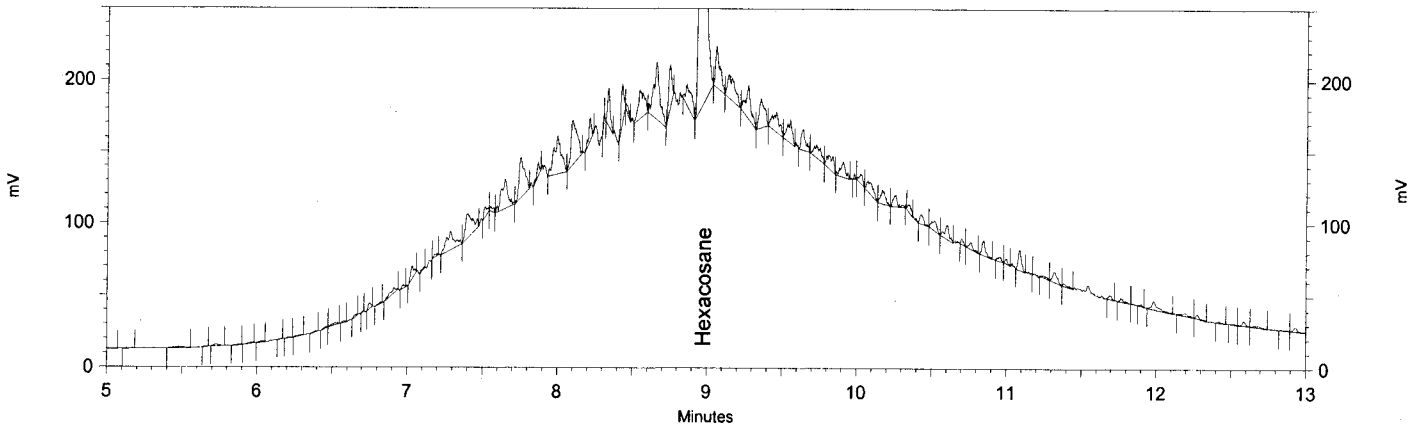
Sample Name: **ccv,s8072,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a013**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur081.met
Run Date: 3/21/2008 2:31:45 PM
Analysis Date: 3/21/2008 2:54:21 PM
Instrument: GC17A Vial: 13 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.977	3410245	51.728



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a013

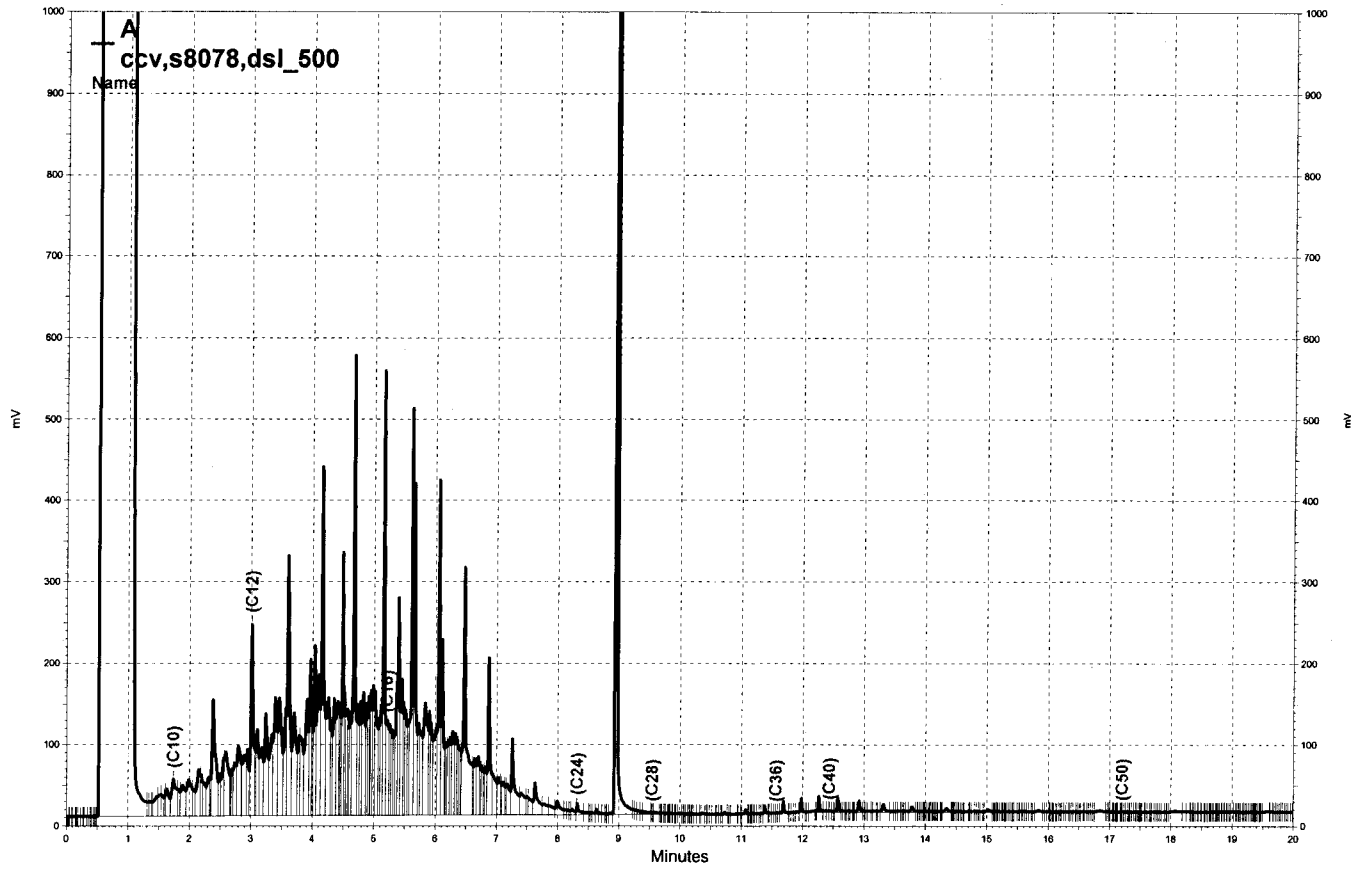
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
Seqnum : 178117121014.1 File : 081a014 Time : 21-MAR-2008 14:59
Standards: S8078

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	178033862001	23-JAN-2008	60722	61514	500.0	506.5	mg/L	1	15	
Hexacosane	178035189001	24-JAN-2008	65927	69029	50.00	52.35	mg/L	5	15	

Analyst: JDG Date: 03/21/08 * Reviewer: LH Date: 03/24/08



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a014, A

Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 2:59:01 PM
Analysis Date: 3/21/2008 3:25:28 PM
Instrument: GC17A Vial: 14 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	21349698	424.768
JP8:10-16	21349698	459.717
KER:10-16	21349698	348.578
JP5:10-16	21349698	340.186
DSL:10-20	32971342	506.533
DSL:10-22	34485348	504.683
DSL:10-24	34772868	502.668
DSL:12-22	30469512	508.875
DSL:10-28	38454856	552.983
DSL:12-24	30757032	506.522
DSL:12-32	34487480	563.563
BUNKC:12-40	34623812	1411.959
HYFL:12-40	34623812	475.633
MO:22-32	4017966	82.119
MO:20-36	5562085	91.146
MO:22-36	4048072	74.111
MO:24-36	3760552	85.087
BUNKC:12-50	35006596	1228.552
MO:28-36	78571	3.964
MO:28-40	184787	8.369
DSL:10-12	4015843	0.000
DSL:12-16	17333856	0.000
DSL:16-24	13423183	0.000
TROIL:12-40	34623812	517.291

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

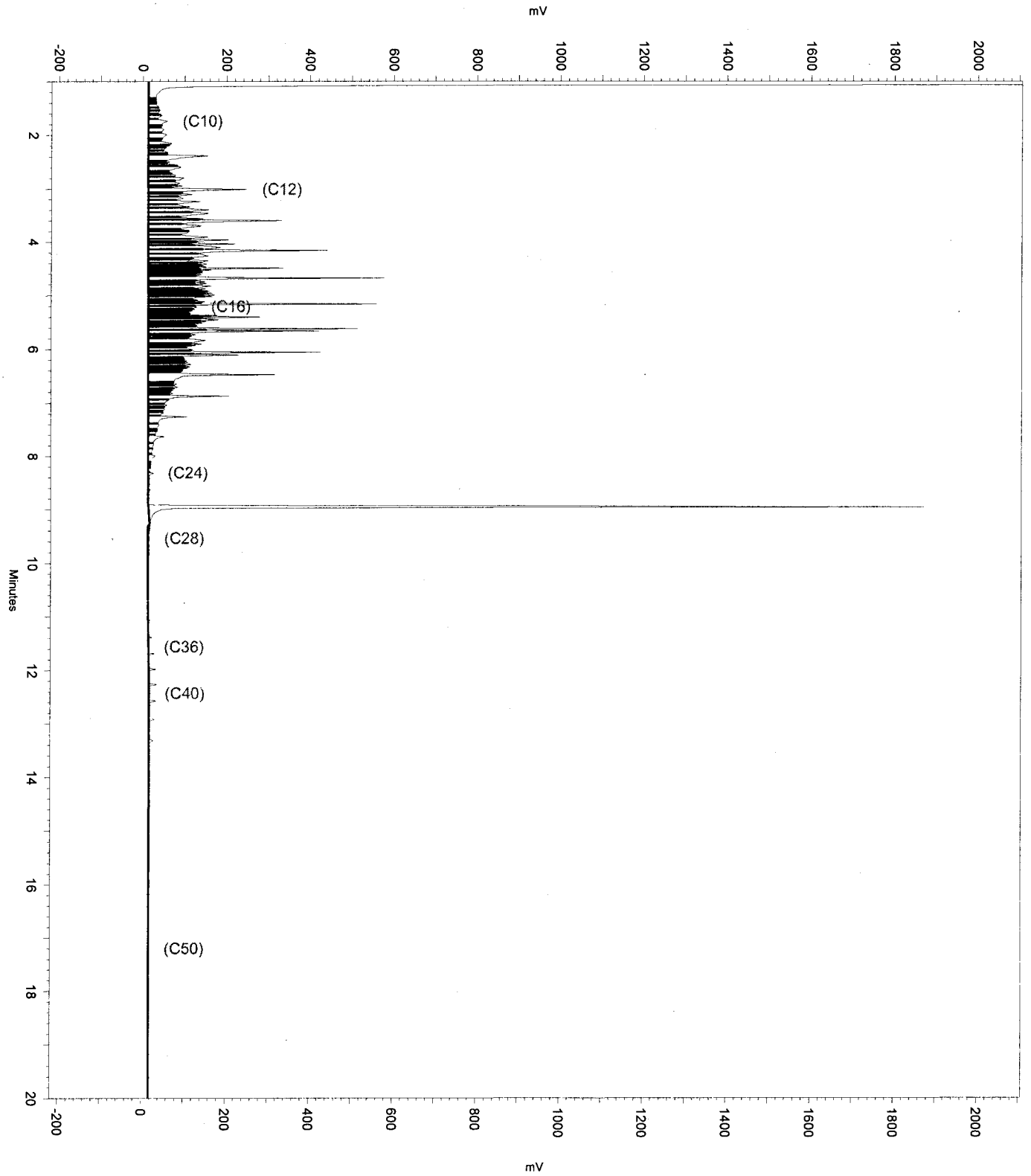
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	8.899	9.3	0

: 00365

Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\ateh081.met
Run Date: 3/21/2008 2:59:01 PM
Analysis Date: 3/21/2008 3:25:28 PM
Instrument: GC17A Vial: 14 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: **1** PDF: 1



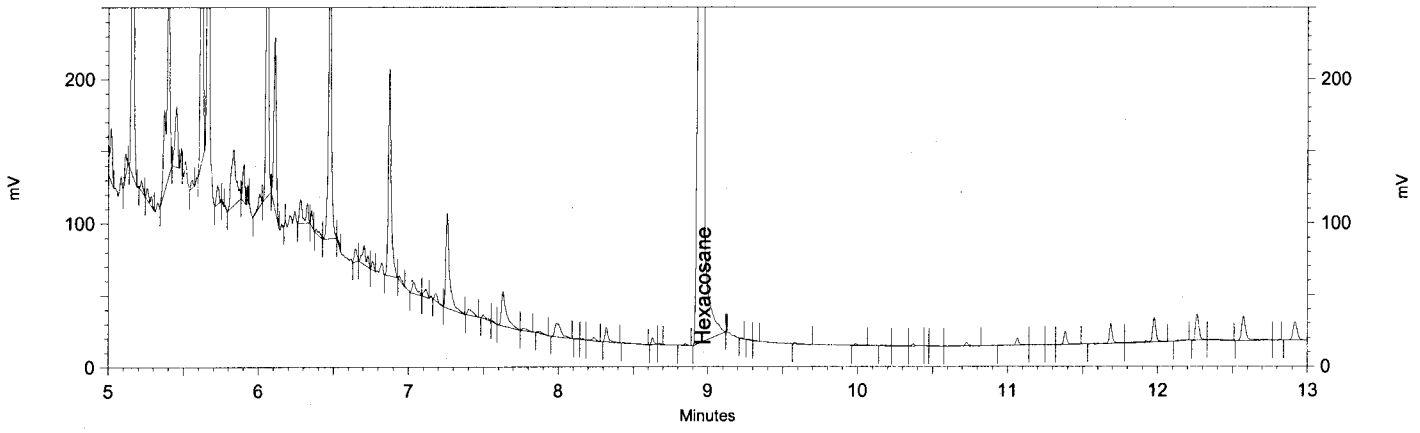
Sample Name: **ccv,s8078,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC17A\Sequence\081.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC17A\Method\asur081.met
Run Date: 3/21/2008 2:59:01 PM
Analysis Date: 3/21/2008 3:24:47 PM
Instrument: GC17A Vial: 14 Operator: Teh 3. Analyst (lims2k3\teh3)
Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.968	3451441	52.353



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC17A\Data\081a014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 202043
ANALYTICAL REPORT
Volatile Organics by GC/MS

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065-EX1 Presidio
Petaluma, CA 94954	Level : IV

Sample ID	Lab ID
1065EX307[6.0]	202043-001
1065EX308[6.0]	202043-002
1065EX309[6.5]	202043-003
1065EX310[7.0]	202043-004
1065EX311[8.5]	202043-005
DUP031908	202043-006
1065EX312[6.0]	202043-007
1065EX313[4.5]	202043-008
1065EX314[5.5]	202043-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/03/2008
Project Manager

Signature: _____ Date: 04/03/2008
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Laboratory number:	**202043**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065-EX1 Presidio**
Request Date:	**03/19/08**
Samples Received:	**03/19/08**

Volatile Organics by GC/MS (EPA 8260B):

5035 samples not analyzed within 48 hours were frozen.

Low responses were observed for trichlorofluoromethane and Freon 12 in the ICV analyzed 03/17/08 09:47; these analytes were not detected at or above the RL in the associated samples.

Low response was observed for Freon 12 in the ICV analyzed 03/16/08 17:22; this analyte was not detected at or above the RL in the associated samples.

Low response was observed for Freon 113 in the CCV analyzed 03/20/08 09:00; this analyte met minimum response criteria. High response was observed for bromomethane; this analyte was not detected at or above the RL in the associated samples.

Low responses were observed for Freon 12 and hexachlorobutadiene in the CCV analyzed 03/21/08 09:12; these analytes met minimum response criteria. High response was observed for methylene chloride; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Methylene chloride, naphthalene, and 1,2,3-trichlorobenzene were detected between the MDL and the RL in the method blank for batch 136185; these analytes were not detected in samples at or above the RL.

Many analytes were detected between the MDL and the RL in the method blank for batch 136236; these analytes were not detected in samples at or above the RL.

Methylene chloride was detected between the MDL and the RL in many samples; this analyte is a common laboratory contaminant.

No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

202043

3835

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065-Ex 1
JOB NO.: 408807511S 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 3/19/08

TIME	GRAB	COMP	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B) BTEX & 2-Methoxyethanol; TPHg (8015M); TPHd + TPHo - w/ silica gel; PAHs (8270-SIM); Title 22 Metals	FOR LAB USE ONLY
1005	X		SO	1065EX307[6.0]	SW 5IN7GE		14	X X X X X	
1025	X		SO	1065EX308[6.0]	SW 50N32E		7	X X X X X	
1040	X		SO	1065EX309[6.5]	SW 30N31E		7	X X X X X	
1105	X		SO	1065EX310[7.0]	SW 12N31E		7	X X X X X	
1125	X		SO	1065EX311[8.5]	B 21N44E		7	X X X X X	
1125	X		SO	DUP031908	B		7	X X X X X	
1150	X		SO	1065EX312[6.0]	B 26N66E		7	X X X X X	
1200	X		SO	1065EX313[4.5]	SW 3N80E		7	X X X X X	
1215	X		SO	1065EX314[5.5]	SW 29N71E		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	3/19/08 1230		3/19/08 1230			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS: Lvl 3 Data Validation
48-hr TAT

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

Anna Pajarillo

From: "Carlyon, Kristen" <KACARLYON@mactec.com>
To: "Anna M. Pajarillo" <anna@ctberk.com>
Cc: "Hart, Mary" <MCHART@mactec.com>; "Heassler, Mary Jo" <MHeassler@mactec.com>
Sent: Friday, March 21, 2008 1:06 PM
Subject: RE: 4084075115 - C&T Login Summary (202043)

Anna,

Please change this job to a level IV.

Kristen

From: Anna M. Pajarillo [mailto:anna@ctberk.com]
Sent: Friday, March 21, 2008 11:56 AM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Evans, Kathleen; Hart, Mary; Albrecht, Frederic
Subject: 4084075115 - C&T Login Summary (202043)

Status: Results will be emailed late today. TVH gas department is running on hold times, but are trying to fit these in today. I may not have ending CCVs, so results will be draft. -Anna

C&T Login Summary for 202043

Project: 4084075115 **Site:** Bldg 1065-EX1 Presidio **Lab Login #:** 202043 **Report Due:** 03/21/08 **PO#:** 200704465 **C&T Proj Mgr:** Anna M. Pajarillo	**Report To:** Mactec, Inc. 5341 Old Redwood Hwy Suite 300 Petaluma, CA 94954 ATTN: Mary Jo Heassler (707) 793-3800	**Bill To:** Mactec, Inc. 1105 Sanctu Suite 300 Alpharetta, (ATTN: Acc (415) 278-2

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	
1065EX307[6.0]	001	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		MS/MSD
				Soil	E8260		MS/MSD
				Soil	ETVH		MS/MSD
				Soil	MOISTURE		MS/MSD
				Soil	T26 MET		MS/MSD
				Soil	TEHM		MS/MSD, S.GEL
1065EX308[6.0]	002	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 202043 Date Received 3/19/08 Number of coolers 1
Client MACTEC Project BUILDING 1065-EX1

Date Opened 3/19/08 By (print) M. VILLANUEVA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ (NO)
How many Name Date
2B. Were custody seals intact upon arrival? ..... YES NO (N/A)
3. Were custody papers dry and intact when received? ..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None

☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A

Type of ice used: ☑ WET ☐ BLUE ☐ NONE Temp(°C) NO TEMP BLANK

☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... (YES) NO
If YES, what time were they transferred to freezer? 16:30
9. Did all bottles arrive unbroken/unopened? ..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... YES NO (N/A)
15. Are bubbles absent in VOA samples? ..... YES NO (N/A)
16. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, Who was called? By Date:

COMMENTS

Results & QC Summary

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX307[6.0]	Diln Fac:	0.7813
Lab ID:	202043-001	Batch#:	136185
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/20/08

Moisture: 22%

Analyte	Result	RL	MDL
Freon 12	ND	10	0.41
Chloromethane	ND	10	0.38
Vinyl Chloride	ND	10	0.46
Bromomethane	ND	10	1.0
Chloroethane	ND	10	0.27
Trichlorofluoromethane	ND	5.0	0.46
Acetone	7.3 J	20	1.3
Freon 113	ND	5.0	0.68
1,1-Dichloroethene	ND	5.0	0.55
Methylene Chloride	1.6 J	20	0.50
Carbon Disulfide	ND	5.0	0.39
MTBE	ND	5.0	0.44
trans-1,2-Dichloroethene	ND	5.0	0.75
Vinyl Acetate	ND	50	0.64
1,1-Dichloroethane	ND	5.0	0.45
2-Butanone	1.7 J	10	0.58
cis-1,2-Dichloroethene	ND	5.0	0.33
2,2-Dichloropropane	ND	5.0	0.26
Chloroform	0.37 J	5.0	0.15
Bromochloromethane	ND	5.0	0.47
1,1,1-Trichloroethane	ND	5.0	0.36
1,1-Dichloropropene	ND	5.0	0.31
Carbon Tetrachloride	ND	5.0	0.56
1,2-Dichloroethane	ND	5.0	0.32
Benzene	ND	5.0	0.13
Trichloroethene	ND	5.0	0.44
1,2-Dichloropropane	ND	5.0	0.43
Bromodichloromethane	ND	5.0	0.48
Dibromomethane	ND	5.0	0.32
4-Methyl-2-Pentanone	ND	10	0.63
cis-1,3-Dichloropropene	ND	5.0	0.19
Toluene	ND	5.0	0.35
trans-1,3-Dichloropropene	ND	5.0	0.46
1,1,2-Trichloroethane	ND	5.0	0.38
2-Hexanone	ND	10	0.78
1,3-Dichloropropane	ND	5.0	0.40
Tetrachloroethene	ND	5.0	0.79
Dibromochloromethane	ND	5.0	0.46
1,2-Dibromoethane	ND	5.0	0.52
Chlorobenzene	ND	5.0	0.44
1,1,1,2-Tetrachloroethane	ND	5.0	0.39
Ethylbenzene	ND	5.0	0.51
m,p-Xylenes	ND	5.0	0.92
o-Xylene	ND	5.0	0.56
Styrene	ND	5.0	0.46
Bromoform	ND	5.0	0.65
Isopropylbenzene	ND	5.0	0.66
1,1,2,2-Tetrachloroethane	ND	5.0	0.57
1,2,3-Trichloropropane	ND	5.0	0.59
Propylbenzene	ND	5.0	0.56

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

42.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX307[6.0]	Diln Fac:	0.7813
Lab ID:	202043-001	Batch#:	136185
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/20/08

Analyte	Result	RL	MDL
Bromobenzene	ND	5.0	0.46
1,3,5-Trimethylbenzene	ND	5.0	0.52
2-Chlorotoluene	ND	5.0	0.58
4-Chlorotoluene	ND	5.0	0.58
tert-Butylbenzene	ND	5.0	0.70
1,2,4-Trimethylbenzene	ND	5.0	0.55
sec-Butylbenzene	ND	5.0	0.62
para-Isopropyl Toluene	ND	5.0	0.58
1,3-Dichlorobenzene	ND	5.0	0.42
1,4-Dichlorobenzene	ND	5.0	0.49
n-Butylbenzene	ND	5.0	0.49
1,2-Dichlorobenzene	ND	5.0	0.48
1,2-Dibromo-3-Chloropropane	ND	5.0	0.80
1,2,4-Trichlorobenzene	ND	5.0	0.46
Hexachlorobutadiene	ND	5.0	0.49
Naphthalene	ND	5.0	0.19
1,2,3-Trichlorobenzene	ND	5.0	0.33

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-126
1,2-Dichloroethane-d4	110	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	118	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

42.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX308[6.0]	Diln Fac:	0.8772
Lab ID:	202043-002	Batch#:	136185
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/20/08

Moisture: 15%

Analyte	Result	RL	MDL
Freon 12	ND	10	0.42
Chloromethane	ND	10	0.39
Vinyl Chloride	ND	10	0.48
Bromomethane	ND	10	1.0
Chloroethane	ND	10	0.28
Trichlorofluoromethane	ND	5.2	0.48
Acetone	20 J	21	1.3
Freon 113	ND	5.2	0.70
1,1-Dichloroethene	ND	5.2	0.56
Methylene Chloride	0.73 J	21	0.52
Carbon Disulfide	ND	5.2	0.40
MTBE	ND	5.2	0.46
trans-1,2-Dichloroethene	ND	5.2	0.77
Vinyl Acetate	ND	52	0.66
1,1-Dichloroethane	ND	5.2	0.46
2-Butanone	4.0 J	10	0.60
cis-1,2-Dichloroethene	ND	5.2	0.34
2,2-Dichloropropane	ND	5.2	0.27
Chloroform	ND	5.2	0.16
Bromochloromethane	ND	5.2	0.49
1,1,1-Trichloroethane	ND	5.2	0.37
1,1-Dichloropropene	ND	5.2	0.32
Carbon Tetrachloride	ND	5.2	0.58
1,2-Dichloroethane	0.42 J	5.2	0.33
Benzene	ND	5.2	0.14
Trichloroethene	ND	5.2	0.45
1,2-Dichloropropane	ND	5.2	0.44
Bromodichloromethane	ND	5.2	0.49
Dibromomethane	ND	5.2	0.33
4-Methyl-2-Pentanone	ND	10	0.65
cis-1,3-Dichloropropene	ND	5.2	0.20
Toluene	ND	5.2	0.36
trans-1,3-Dichloropropene	ND	5.2	0.48
1,1,2-Trichloroethane	ND	5.2	0.39
2-Hexanone	ND	10	0.81
1,3-Dichloropropane	ND	5.2	0.41
Tetrachloroethene	ND	5.2	0.81
Dibromochloromethane	ND	5.2	0.47
1,2-Dibromoethane	ND	5.2	0.53
Chlorobenzene	ND	5.2	0.45
1,1,1,2-Tetrachloroethane	ND	5.2	0.40
Ethylbenzene	ND	5.2	0.52
m,p-Xylenes	1.2 J	5.2	0.95
o-Xylene	ND	5.2	0.58
Styrene	ND	5.2	0.47
Bromoform	ND	5.2	0.67
Isopropylbenzene	5.1 J	5.2	0.68
1,1,2,2-Tetrachloroethane	ND	5.2	0.59
1,2,3-Trichloropropane	ND	5.2	0.61
Propylbenzene	7.5	5.2	0.58

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

43.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX308[6.0]	Diln Fac:	0.8772
Lab ID:	202043-002	Batch#:	136185
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/20/08

Analyte	Result	RL	MDL
Bromobenzene	ND	5.2	0.48
1,3,5-Trimethylbenzene	0.65 J	5.2	0.54
2-Chlorotoluene	ND	5.2	0.60
4-Chlorotoluene	ND	5.2	0.59
tert-Butylbenzene	ND	5.2	0.72
1,2,4-Trimethylbenzene	ND	5.2	0.57
sec-Butylbenzene	4.4 J	5.2	0.64
para-Isopropyl Toluene	2.3 J	5.2	0.60
1,3-Dichlorobenzene	ND	5.2	0.43
1,4-Dichlorobenzene	ND	5.2	0.50
n-Butylbenzene	8.5	5.2	0.51
1,2-Dichlorobenzene	ND	5.2	0.49
1,2-Dibromo-3-Chloropropane	ND	5.2	0.83
1,2,4-Trichlorobenzene	ND	5.2	0.47
Hexachlorobutadiene	ND	5.2	0.51
Naphthalene	2.7 J	5.2	0.19
1,2,3-Trichlorobenzene	ND	5.2	0.34

Surrogate	%REC	Limits
Dibromofluoromethane	91	78-126
1,2-Dichloroethane-d4	106	76-137
Toluene-d8	104	80-120
Bromofluorobenzene	120	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

43.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX309[6.5]	Diln Fac:	83.33
Lab ID:	202043-003	Batch#:	136236
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/21/08

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	990	20
Chloromethane	ND	990	20
Vinyl Chloride	ND	990	13
Bromomethane	ND	990	39
Chloroethane	ND	990	21
Trichlorofluoromethane	ND	500	20
Acetone	300 J	2,000	99
Freon 113	ND	500	15
1,1-Dichloroethene	ND	500	9.9
Methylene Chloride	310 J b	2,000	99
Carbon Disulfide	ND	500	9.9
MTBE	ND	500	9.9
trans-1,2-Dichloroethene	ND	500	13
Vinyl Acetate	ND	5,000	200
1,1-Dichloroethane	ND	500	9.9
2-Butanone	ND	990	200
cis-1,2-Dichloroethene	ND	500	9.9
2,2-Dichloropropane	ND	500	19
Chloroform	ND	500	12
Bromochloromethane	ND	500	14
1,1,1-Trichloroethane	ND	500	12
1,1-Dichloropropene	ND	500	9.9
Carbon Tetrachloride	ND	500	15
1,2-Dichloroethane	ND	500	9.9
Benzene	ND	500	9.9
Trichloroethene	ND	500	9.9
1,2-Dichloropropane	ND	500	14
Bromodichloromethane	ND	500	9.9
Dibromomethane	ND	500	9.9
4-Methyl-2-Pentanone	ND	990	200
cis-1,3-Dichloropropene	ND	500	9.9
Toluene	ND	500	10
trans-1,3-Dichloropropene	ND	500	9.9
1,1,2-Trichloroethane	ND	500	9.9
2-Hexanone	ND	990	200
1,3-Dichloropropane	ND	500	9.9
Tetrachloroethene	ND	500	9.9
Dibromochloromethane	ND	500	9.9
1,2-Dibromoethane	ND	500	14
Chlorobenzene	ND	500	9.9
1,1,1,2-Tetrachloroethane	ND	500	12
Ethylbenzene	ND	500	9.9
m,p-Xylenes	ND	500	24
o-Xylene	ND	500	9.9
Styrene	ND	500	9.9
Bromoform	ND	500	20
Isopropylbenzene	26 J	500	9.9
1,1,2,2-Tetrachloroethane	ND	500	14
1,2,3-Trichloropropane	ND	500	11

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX309[6.5]	Diln Fac:	83.33
Lab ID:	202043-003	Batch#:	136236
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Propylbenzene	67 J	500	9.9
Bromobenzene	ND	500	9.9
1,3,5-Trimethylbenzene	34 J	500	11
2-Chlorotoluene	ND	500	9.9
4-Chlorotoluene	ND	500	10
tert-Butylbenzene	ND	500	9.9
1,2,4-Trimethylbenzene	90 J	500	9.9
sec-Butylbenzene	66 J	500	9.9
para-Isopropyl Toluene	94 J	500	9.9
1,3-Dichlorobenzene	ND	500	9.9
1,4-Dichlorobenzene	ND	500	11
n-Butylbenzene	110 J	500	12
1,2-Dichlorobenzene	ND	500	11
1,2-Dibromo-3-Chloropropane	ND	500	40
1,2,4-Trichlorobenzene	ND	500	9.9
Hexachlorobutadiene	ND	500	12
Naphthalene	180 J	500	40
1,2,3-Trichlorobenzene	ND	500	9.9

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-126
1,2-Dichloroethane-d4	100	76-137
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-121
Trifluorotoluene (MeOH)	93	52-145

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX310[7.0]	Basis:	dry
Lab ID:	202043-004	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg		

Moisture: 16%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Freon 12	ND	9.9	0.41	0.8333	136185	03/20/08
Chloromethane	ND	9.9	0.37	0.8333	136185	03/20/08
Vinyl Chloride	ND	9.9	0.46	0.8333	136185	03/20/08
Bromomethane	ND	9.9	1.0	0.8333	136185	03/20/08
Chloroethane	ND	9.9	0.27	0.8333	136185	03/20/08
Trichlorofluoromethane	ND	5.0	0.46	0.8333	136185	03/20/08
Acetone	160 J	600	30	25.00	136236	03/21/08
Freon 113	ND	5.0	0.68	0.8333	136185	03/20/08
1,1-Dichloroethene	ND	5.0	0.54	0.8333	136185	03/20/08
Methylene Chloride	1.1 J	20	0.50	0.8333	136185	03/20/08
Carbon Disulfide	ND	5.0	0.38	0.8333	136185	03/20/08
MTBE	ND	5.0	0.44	0.8333	136185	03/20/08
trans-1,2-Dichloroethene	ND	5.0	0.74	0.8333	136185	03/20/08
Vinyl Acetate	ND	50	0.64	0.8333	136185	03/20/08
1,1-Dichloroethane	ND	5.0	0.44	0.8333	136185	03/20/08
2-Butanone	15	9.9	0.57	0.8333	136185	03/20/08
cis-1,2-Dichloroethene	ND	5.0	0.33	0.8333	136185	03/20/08
2,2-Dichloropropane	ND	5.0	0.26	0.8333	136185	03/20/08
Chloroform	ND	5.0	0.15	0.8333	136185	03/20/08
Bromochloromethane	ND	5.0	0.47	0.8333	136185	03/20/08
1,1,1-Trichloroethane	ND	5.0	0.35	0.8333	136185	03/20/08
1,1-Dichloropropene	ND	5.0	0.30	0.8333	136185	03/20/08
Carbon Tetrachloride	ND	5.0	0.56	0.8333	136185	03/20/08
1,2-Dichloroethane	ND	5.0	0.31	0.8333	136185	03/20/08
Benzene	ND	5.0	0.13	0.8333	136185	03/20/08
Trichloroethene	ND	5.0	0.44	0.8333	136185	03/20/08
1,2-Dichloropropane	ND	5.0	0.42	0.8333	136185	03/20/08
Bromodichloromethane	ND	5.0	0.48	0.8333	136185	03/20/08
Dibromomethane	ND	5.0	0.32	0.8333	136185	03/20/08
4-Methyl-2-Pentanone	ND	9.9	0.62	0.8333	136185	03/20/08
cis-1,3-Dichloropropene	ND	5.0	0.19	0.8333	136185	03/20/08
Toluene	0.38 J	5.0	0.35	0.8333	136185	03/20/08
trans-1,3-Dichloropropene	ND	5.0	0.46	0.8333	136185	03/20/08
1,1,2-Trichloroethane	ND	5.0	0.37	0.8333	136185	03/20/08
2-Hexanone	ND	9.9	0.78	0.8333	136185	03/20/08
1,3-Dichloropropane	ND	5.0	0.39	0.8333	136185	03/20/08
Tetrachloroethene	ND	5.0	0.78	0.8333	136185	03/20/08
Dibromochloromethane	ND	5.0	0.45	0.8333	136185	03/20/08
1,2-Dibromoethane	ND	5.0	0.51	0.8333	136185	03/20/08
Chlorobenzene	ND	5.0	0.43	0.8333	136185	03/20/08
1,1,1,2-Tetrachloroethane	ND	5.0	0.39	0.8333	136185	03/20/08
Ethylbenzene	ND	5.0	0.50	0.8333	136185	03/20/08
m,p-Xylenes	1.5 J	5.0	0.92	0.8333	136185	03/20/08
o-Xylene	ND	5.0	0.56	0.8333	136185	03/20/08
Styrene	ND	5.0	0.45	0.8333	136185	03/20/08
Bromoform	ND	5.0	0.64	0.8333	136185	03/20/08
Isopropylbenzene	3.8 J	5.0	0.65	0.8333	136185	03/20/08
1,1,2,2-Tetrachloroethane	ND	5.0	0.57	0.8333	136185	03/20/08
1,2,3-Trichloropropane	ND	5.0	0.59	0.8333	136185	03/20/08
Propylbenzene	5.6	5.0	0.56	0.8333	136185	03/20/08
Bromobenzene	ND	5.0	0.46	0.8333	136185	03/20/08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX310[7.0]	Basis:	dry
Lab ID:	202043-004	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg		

Analyte	Result	RL	MDL	Dil'n Fac	Batch#	Analyzed
1,3,5-Trimethylbenzene	ND	5.0	0.52	0.8333	136185	03/20/08
2-Chlorotoluene	ND	5.0	0.57	0.8333	136185	03/20/08
4-Chlorotoluene	ND	5.0	0.57	0.8333	136185	03/20/08
tert-Butylbenzene	ND	5.0	0.69	0.8333	136185	03/20/08
1,2,4-Trimethylbenzene	ND	5.0	0.55	0.8333	136185	03/20/08
sec-Butylbenzene	1.4 J	5.0	0.62	0.8333	136185	03/20/08
para-Isopropyl Toluene	0.68 J	5.0	0.58	0.8333	136185	03/20/08
1,3-Dichlorobenzene	ND	5.0	0.42	0.8333	136185	03/20/08
1,4-Dichlorobenzene	ND	5.0	0.48	0.8333	136185	03/20/08
n-Butylbenzene	ND	150	3.5	25.00	136236	03/21/08
1,2-Dichlorobenzene	ND	5.0	0.47	0.8333	136185	03/20/08
1,2-Dibromo-3-Chloropropane	ND	5.0	0.80	0.8333	136185	03/20/08
1,2,4-Trichlorobenzene	ND	5.0	0.45	0.8333	136185	03/20/08
Hexachlorobutadiene	ND	5.0	0.49	0.8333	136185	03/20/08
Naphthalene	ND	5.0	0.18	0.8333	136185	03/20/08
1,2,3-Trichlorobenzene	ND	5.0	0.33	0.8333	136185	03/20/08

Surrogate	%REC	Limits	Dil'n Fac	Batch#	Analyzed
Dibromofluoromethane	87	78-126	0.8333	136185	03/20/08
1,2-Dichloroethane-d4	83	76-137	0.8333	136185	03/20/08
Toluene-d8	95	80-120	0.8333	136185	03/20/08
Bromofluorobenzene	114	80-121	0.8333	136185	03/20/08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX311[8.5]	Diln Fac:	0.8333
Lab ID:	202043-005	Batch#:	136185
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/20/08

Moisture: 21%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.43
Chloromethane	ND	11	0.40
Vinyl Chloride	ND	11	0.49
Bromomethane	ND	11	1.1
Chloroethane	ND	11	0.28
Trichlorofluoromethane	ND	5.3	0.49
Acetone	52	21	1.3
Freon 113	ND	5.3	0.72
1,1-Dichloroethene	ND	5.3	0.58
Methylene Chloride	ND	21	0.53
Carbon Disulfide	ND	5.3	0.41
MTBE	ND	5.3	0.47
trans-1,2-Dichloroethene	ND	5.3	0.79
Vinyl Acetate	ND	53	0.68
1,1-Dichloroethane	ND	5.3	0.47
2-Butanone	6.2 J	11	0.61
cis-1,2-Dichloroethene	ND	5.3	0.35
2,2-Dichloropropane	ND	5.3	0.28
Chloroform	ND	5.3	0.16
Bromochloromethane	ND	5.3	0.50
1,1,1-Trichloroethane	ND	5.3	0.38
1,1-Dichloropropene	ND	5.3	0.32
Carbon Tetrachloride	ND	5.3	0.59
1,2-Dichloroethane	ND	5.3	0.33
Benzene	0.50 J	5.3	0.14
Trichloroethene	ND	5.3	0.47
1,2-Dichloropropane	ND	5.3	0.45
Bromodichloromethane	ND	5.3	0.51
Dibromomethane	ND	5.3	0.34
4-Methyl-2-Pentanone	ND	11	0.66
cis-1,3-Dichloropropene	ND	5.3	0.20
Toluene	ND	5.3	0.37
trans-1,3-Dichloropropene	ND	5.3	0.49
1,1,2-Trichloroethane	ND	5.3	0.40
2-Hexanone	ND	11	0.83
1,3-Dichloropropane	ND	5.3	0.42
Tetrachloroethene	ND	5.3	0.83
Dibromochloromethane	ND	5.3	0.48
1,2-Dibromoethane	ND	5.3	0.55
Chlorobenzene	ND	5.3	0.46
1,1,1,2-Tetrachloroethane	ND	5.3	0.41
Ethylbenzene	ND	5.3	0.53
m,p-Xylenes	ND	5.3	0.97
o-Xylene	ND	5.3	0.59
Styrene	ND	5.3	0.48
Bromoform	ND	5.3	0.68
Isopropylbenzene	1.5 J	5.3	0.69
1,1,2,2-Tetrachloroethane	ND	5.3	0.60
1,2,3-Trichloropropane	ND	5.3	0.63
Propylbenzene	1.2 J	5.3	0.59

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

46.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX311[8.5]	Diln Fac:	0.8333
Lab ID:	202043-005	Batch#:	136185
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/20/08

Analyte	Result	RL	MDL
Bromobenzene	ND	5.3	0.49
1,3,5-Trimethylbenzene	ND	5.3	0.55
2-Chlorotoluene	ND	5.3	0.61
4-Chlorotoluene	ND	5.3	0.61
tert-Butylbenzene	ND	5.3	0.73
1,2,4-Trimethylbenzene	ND	5.3	0.58
sec-Butylbenzene	ND	5.3	0.66
para-Isopropyl Toluene	ND	5.3	0.61
1,3-Dichlorobenzene	ND	5.3	0.44
1,4-Dichlorobenzene	ND	5.3	0.52
n-Butylbenzene	ND	5.3	0.52
1,2-Dichlorobenzene	ND	5.3	0.50
1,2-Dibromo-3-Chloropropane	ND	5.3	0.85
1,2,4-Trichlorobenzene	ND	5.3	0.48
Hexachlorobutadiene	ND	5.3	0.52
Naphthalene	1.9 J	5.3	0.20
1,2,3-Trichlorobenzene	ND	5.3	0.35

Surrogate	%REC	Limits
Dibromofluoromethane	83	78-126
1,2-Dichloroethane-d4	91	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	104	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP031908	Diln Fac:	0.8197
Lab ID:	202043-006	Batch#:	136185
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/20/08

Moisture: 21%

Analyte	Result	RL	MDL
Freon 12	ND	10	0.43
Chloromethane	ND	10	0.39
Vinyl Chloride	ND	10	0.48
Bromomethane	ND	10	1.0
Chloroethane	ND	10	0.28
Trichlorofluoromethane	ND	5.2	0.48
Acetone	52	21	1.3
Freon 113	ND	5.2	0.71
1,1-Dichloroethene	ND	5.2	0.57
Methylene Chloride	0.73 J	21	0.52
Carbon Disulfide	ND	5.2	0.40
MTBE	ND	5.2	0.46
trans-1,2-Dichloroethene	ND	5.2	0.78
Vinyl Acetate	ND	52	0.67
1,1-Dichloroethane	ND	5.2	0.46
2-Butanone	5.9 J	10	0.60
cis-1,2-Dichloroethene	ND	5.2	0.34
2,2-Dichloropropane	ND	5.2	0.27
Chloroform	ND	5.2	0.16
Bromochloromethane	ND	5.2	0.49
1,1,1-Trichloroethane	ND	5.2	0.37
1,1-Dichloropropene	ND	5.2	0.32
Carbon Tetrachloride	ND	5.2	0.58
1,2-Dichloroethane	ND	5.2	0.33
Benzene	0.29 J	5.2	0.14
Trichloroethene	ND	5.2	0.46
1,2-Dichloropropane	ND	5.2	0.44
Bromodichloromethane	ND	5.2	0.50
Dibromomethane	ND	5.2	0.33
4-Methyl-2-Pentanone	ND	10	0.65
cis-1,3-Dichloropropene	ND	5.2	0.20
Toluene	ND	5.2	0.36
trans-1,3-Dichloropropene	ND	5.2	0.48
1,1,2-Trichloroethane	ND	5.2	0.39
2-Hexanone	ND	10	0.81
1,3-Dichloropropane	ND	5.2	0.41
Tetrachloroethene	ND	5.2	0.82
Dibromochloromethane	ND	5.2	0.47
1,2-Dibromoethane	ND	5.2	0.54
Chlorobenzene	ND	5.2	0.45
1,1,1,2-Tetrachloroethane	ND	5.2	0.41
Ethylbenzene	ND	5.2	0.52
m,p-Xylenes	ND	5.2	0.96
o-Xylene	ND	5.2	0.58
Styrene	ND	5.2	0.48
Bromoform	ND	5.2	0.67
Isopropylbenzene	0.94 J	5.2	0.68
1,1,2,2-Tetrachloroethane	ND	5.2	0.59
1,2,3-Trichloropropane	ND	5.2	0.62
Propylbenzene	0.70 J	5.2	0.58

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

47.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP031908	Diln Fac:	0.8197
Lab ID:	202043-006	Batch#:	136185
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/20/08

Analyte	Result	RL	MDL
Bromobenzene	ND	5.2	0.48
1,3,5-Trimethylbenzene	ND	5.2	0.54
2-Chlorotoluene	ND	5.2	0.60
4-Chlorotoluene	ND	5.2	0.60
tert-Butylbenzene	ND	5.2	0.72
1,2,4-Trimethylbenzene	ND	5.2	0.57
sec-Butylbenzene	ND	5.2	0.64
para-Isopropyl Toluene	ND	5.2	0.60
1,3-Dichlorobenzene	ND	5.2	0.43
1,4-Dichlorobenzene	ND	5.2	0.51
n-Butylbenzene	ND	5.2	0.51
1,2-Dichlorobenzene	ND	5.2	0.50
1,2-Dibromo-3-Chloropropane	ND	5.2	0.83
1,2,4-Trichlorobenzene	ND	5.2	0.47
Hexachlorobutadiene	ND	5.2	0.51
Naphthalene	ND	5.2	0.19
1,2,3-Trichlorobenzene	ND	5.2	0.34

Surrogate	%REC	Limits
Dibromofluoromethane	83	78-126
1,2-Dichloroethane-d4	89	76-137
Toluene-d8	100	80-120
Bromofluorobenzene	113	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

47.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX312[6.0]	Basis:	dry
Lab ID:	202043-007	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg		

Moisture: 16%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Freon 12	ND	9.9	0.41	0.8333	136185	03/20/08
Chloromethane	ND	9.9	0.37	0.8333	136185	03/20/08
Vinyl Chloride	ND	9.9	0.46	0.8333	136185	03/20/08
Bromomethane	ND	9.9	1.0	0.8333	136185	03/20/08
Chloroethane	ND	9.9	0.27	0.8333	136185	03/20/08
Trichlorofluoromethane	ND	5.0	0.46	0.8333	136185	03/20/08
Acetone	160 J	600	30	25.00	136236	03/21/08
Freon 113	ND	5.0	0.68	0.8333	136185	03/20/08
1,1-Dichloroethene	ND	5.0	0.54	0.8333	136185	03/20/08
Methylene Chloride	2.4 J	20	0.50	0.8333	136185	03/20/08
Carbon Disulfide	ND	5.0	0.38	0.8333	136185	03/20/08
MTBE	ND	5.0	0.44	0.8333	136185	03/20/08
trans-1,2-Dichloroethene	ND	5.0	0.74	0.8333	136185	03/20/08
Vinyl Acetate	ND	50	0.64	0.8333	136185	03/20/08
1,1-Dichloroethane	ND	5.0	0.44	0.8333	136185	03/20/08
2-Butanone	12	9.9	0.57	0.8333	136185	03/20/08
cis-1,2-Dichloroethene	ND	5.0	0.33	0.8333	136185	03/20/08
2,2-Dichloropropane	ND	5.0	0.26	0.8333	136185	03/20/08
Chloroform	ND	5.0	0.15	0.8333	136185	03/20/08
Bromochloromethane	ND	5.0	0.47	0.8333	136185	03/20/08
1,1,1-Trichloroethane	ND	5.0	0.35	0.8333	136185	03/20/08
1,1-Dichloropropene	ND	5.0	0.30	0.8333	136185	03/20/08
Carbon Tetrachloride	ND	5.0	0.56	0.8333	136185	03/20/08
1,2-Dichloroethane	ND	5.0	0.31	0.8333	136185	03/20/08
Benzene	ND	5.0	0.13	0.8333	136185	03/20/08
Trichloroethene	ND	5.0	0.44	0.8333	136185	03/20/08
1,2-Dichloropropane	ND	5.0	0.42	0.8333	136185	03/20/08
Bromodichloromethane	ND	5.0	0.48	0.8333	136185	03/20/08
Dibromomethane	ND	5.0	0.32	0.8333	136185	03/20/08
4-Methyl-2-Pentanone	ND	9.9	0.62	0.8333	136185	03/20/08
cis-1,3-Dichloropropene	ND	5.0	0.19	0.8333	136185	03/20/08
Toluene	ND	5.0	0.35	0.8333	136185	03/20/08
trans-1,3-Dichloropropene	ND	5.0	0.46	0.8333	136185	03/20/08
1,1,2-Trichloroethane	ND	5.0	0.37	0.8333	136185	03/20/08
2-Hexanone	ND	9.9	0.78	0.8333	136185	03/20/08
1,3-Dichloropropane	ND	5.0	0.39	0.8333	136185	03/20/08
Tetrachloroethene	ND	5.0	0.78	0.8333	136185	03/20/08
Dibromochloromethane	ND	5.0	0.45	0.8333	136185	03/20/08
1,2-Dibromoethane	ND	5.0	0.51	0.8333	136185	03/20/08
Chlorobenzene	ND	5.0	0.43	0.8333	136185	03/20/08
1,1,1,2-Tetrachloroethane	ND	5.0	0.39	0.8333	136185	03/20/08
Ethylbenzene	ND	5.0	0.50	0.8333	136185	03/20/08
m,p-Xylenes	ND	5.0	0.92	0.8333	136185	03/20/08
o-Xylene	ND	5.0	0.56	0.8333	136185	03/20/08
Styrene	ND	5.0	0.45	0.8333	136185	03/20/08
Bromoform	ND	5.0	0.64	0.8333	136185	03/20/08
Isopropylbenzene	ND	5.0	0.65	0.8333	136185	03/20/08
1,1,2,2-Tetrachloroethane	ND	5.0	0.57	0.8333	136185	03/20/08
1,2,3-Trichloropropane	ND	5.0	0.59	0.8333	136185	03/20/08
Propylbenzene	ND	5.0	0.56	0.8333	136185	03/20/08
Bromobenzene	ND	5.0	0.46	0.8333	136185	03/20/08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX312[6.0]	Basis:	dry
Lab ID:	202043-007	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg		

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
1,3,5-Trimethylbenzene	ND	5.0	0.52	0.8333	136185	03/20/08
2-Chlorotoluene	ND	5.0	0.57	0.8333	136185	03/20/08
4-Chlorotoluene	ND	5.0	0.57	0.8333	136185	03/20/08
tert-Butylbenzene	ND	5.0	0.69	0.8333	136185	03/20/08
1,2,4-Trimethylbenzene	ND	5.0	0.55	0.8333	136185	03/20/08
sec-Butylbenzene	ND	5.0	0.62	0.8333	136185	03/20/08
para-Isopropyl Toluene	ND	5.0	0.58	0.8333	136185	03/20/08
1,3-Dichlorobenzene	ND	5.0	0.42	0.8333	136185	03/20/08
1,4-Dichlorobenzene	ND	5.0	0.48	0.8333	136185	03/20/08
n-Butylbenzene	ND	5.0	0.49	0.8333	136185	03/20/08
1,2-Dichlorobenzene	ND	5.0	0.47	0.8333	136185	03/20/08
1,2-Dibromo-3-Chloropropane	ND	5.0	0.80	0.8333	136185	03/20/08
1,2,4-Trichlorobenzene	ND	5.0	0.45	0.8333	136185	03/20/08
Hexachlorobutadiene	ND	5.0	0.49	0.8333	136185	03/20/08
Naphthalene	ND	5.0	0.18	0.8333	136185	03/20/08
1,2,3-Trichlorobenzene	ND	5.0	0.33	0.8333	136185	03/20/08

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	86	78-126	0.8333	136185	03/20/08
1,2-Dichloroethane-d4	88	76-137	0.8333	136185	03/20/08
Toluene-d8	103	80-120	0.8333	136185	03/20/08
Bromofluorobenzene	110	80-121	0.8333	136185	03/20/08

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

48.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX313[4.5]	Diln Fac:	83.33
Lab ID:	202043-008	Batch#:	136236
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/21/08

Moisture: 15%

Analyte	Result	RL	MDL
Freon 12	ND	980	20
Chloromethane	ND	980	20
Vinyl Chloride	ND	980	13
Bromomethane	ND	980	38
Chloroethane	ND	980	21
Trichlorofluoromethane	ND	490	20
Acetone	190 J	2,000	98
Freon 113	ND	490	15
1,1-Dichloroethene	ND	490	9.8
Methylene Chloride	480 J b	2,000	98
Carbon Disulfide	ND	490	9.8
MTBE	ND	490	9.8
trans-1,2-Dichloroethene	ND	490	13
Vinyl Acetate	ND	4,900	200
1,1-Dichloroethane	ND	490	9.8
2-Butanone	ND	980	200
cis-1,2-Dichloroethene	ND	490	9.8
2,2-Dichloropropane	ND	490	19
Chloroform	ND	490	12
Bromochloromethane	ND	490	14
1,1,1-Trichloroethane	ND	490	11
1,1-Dichloropropene	ND	490	9.8
Carbon Tetrachloride	ND	490	15
1,2-Dichloroethane	ND	490	9.8
Benzene	ND	490	9.8
Trichloroethene	ND	490	9.8
1,2-Dichloropropane	ND	490	13
Bromodichloromethane	ND	490	9.8
Dibromomethane	ND	490	9.8
4-Methyl-2-Pentanone	ND	980	200
cis-1,3-Dichloropropene	ND	490	9.8
Toluene	ND	490	9.9
trans-1,3-Dichloropropene	ND	490	9.8
1,1,2-Trichloroethane	ND	490	9.8
2-Hexanone	ND	980	200
1,3-Dichloropropane	ND	490	9.8
Tetrachloroethene	ND	490	9.8
Dibromochloromethane	ND	490	9.8
1,2-Dibromoethane	ND	490	14
Chlorobenzene	ND	490	9.8
1,1,1,2-Tetrachloroethane	ND	490	11
Ethylbenzene	ND	490	9.8
m,p-Xylenes	ND	490	23
o-Xylene	ND	490	9.8
Styrene	ND	490	9.8
Bromoform	ND	490	20
Isopropylbenzene	61 J	490	9.8
1,1,2,2-Tetrachloroethane	ND	490	13
1,2,3-Trichloropropane	ND	490	11

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

49.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX313[4.5]	Diln Fac:	83.33
Lab ID:	202043-008	Batch#:	136236
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Propylbenzene	130 J	490	9.8
Bromobenzene	ND	490	9.8
1,3,5-Trimethylbenzene	12 J	490	11
2-Chlorotoluene	ND	490	9.8
4-Chlorotoluene	ND	490	10
tert-Butylbenzene	ND	490	9.8
1,2,4-Trimethylbenzene	28 J	490	9.8
sec-Butylbenzene	140 J	490	9.8
para-Isopropyl Toluene	160 J	490	9.8
1,3-Dichlorobenzene	ND	490	9.8
1,4-Dichlorobenzene	ND	490	11
n-Butylbenzene	240 J	490	12
1,2-Dichlorobenzene	ND	490	11
1,2-Dibromo-3-Chloropropane	ND	490	39
1,2,4-Trichlorobenzene	ND	490	9.8
Hexachlorobutadiene	ND	490	12
Naphthalene	81 J	490	39
1,2,3-Trichlorobenzene	ND	490	9.8

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-126
1,2-Dichloroethane-d4	101	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-121
Trifluorotoluene (MeOH)	96	52-145

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX314[5.5]	Diln Fac:	0.7937
Lab ID:	202043-009	Batch#:	136236
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/21/08

Moisture: 18%

Analyte	Result	RL	MDL
Freon 12	ND	9.7	1.1
Chloromethane	ND	9.7	0.44
Vinyl Chloride	ND	9.7	0.38
Bromomethane	ND	9.7	0.38
Chloroethane	ND	9.7	0.34
Trichlorofluoromethane	ND	4.8	0.55
Acetone	56	19	1.5
Freon 113	ND	4.8	0.43
1,1-Dichloroethene	ND	4.8	0.47
Methylene Chloride	2.1 J b	19	0.59
Carbon Disulfide	ND	4.8	0.75
MTBE	ND	4.8	0.59
trans-1,2-Dichloroethene	ND	4.8	0.71
Vinyl Acetate	ND	48	0.56
1,1-Dichloroethane	ND	4.8	0.73
2-Butanone	11	9.7	0.79
cis-1,2-Dichloroethene	ND	4.8	0.78
2,2-Dichloropropane	ND	4.8	0.70
Chloroform	ND	4.8	0.77
Bromochloromethane	ND	4.8	0.78
1,1,1-Trichloroethane	ND	4.8	0.60
1,1-Dichloropropene	ND	4.8	0.54
Carbon Tetrachloride	ND	4.8	0.62
1,2-Dichloroethane	ND	4.8	0.80
Benzene	ND	4.8	0.69
Trichloroethene	ND	4.8	0.72
1,2-Dichloropropane	ND	4.8	0.65
Bromodichloromethane	ND	4.8	0.88
Dibromomethane	ND	4.8	0.70
4-Methyl-2-Pentanone	ND	9.7	0.56
cis-1,3-Dichloropropene	ND	4.8	0.62
Toluene	ND	4.8	0.51
trans-1,3-Dichloropropene	ND	4.8	0.67
1,1,2-Trichloroethane	ND	4.8	0.74
2-Hexanone	ND	9.7	0.59
1,3-Dichloropropane	ND	4.8	0.79
Tetrachloroethene	ND	4.8	0.72
Dibromochloromethane	ND	4.8	0.64
1,2-Dibromoethane	ND	4.8	0.68
Chlorobenzene	ND	4.8	0.58
1,1,1,2-Tetrachloroethane	ND	4.8	0.74
Ethylbenzene	ND	4.8	0.65
m,p-Xylenes	ND	4.8	1.2
o-Xylene	ND	4.8	0.50
Styrene	ND	4.8	0.55
Bromoform	ND	4.8	0.72
Isopropylbenzene	ND	4.8	0.42
1,1,2,2-Tetrachloroethane	ND	4.8	0.74
1,2,3-Trichloropropane	ND	4.8	0.66

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

50.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX314[5.5]	Diln Fac:	0.7937
Lab ID:	202043-009	Batch#:	136236
Matrix:	Soil	Sampled:	03/19/08
Units:	ug/Kg	Received:	03/19/08
Basis:	dry	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Propylbenzene	ND	4.8	0.55
Bromobenzene	ND	4.8	0.65
1,3,5-Trimethylbenzene	ND	4.8	0.52
2-Chlorotoluene	ND	4.8	0.57
4-Chlorotoluene	ND	4.8	0.52
tert-Butylbenzene	ND	4.8	0.47
1,2,4-Trimethylbenzene	ND	4.8	0.50
sec-Butylbenzene	ND	4.8	0.41
para-Isopropyl Toluene	ND	4.8	0.44
1,3-Dichlorobenzene	ND	4.8	0.57
1,4-Dichlorobenzene	ND	4.8	0.66
n-Butylbenzene	ND	4.8	0.42
1,2-Dichlorobenzene	ND	4.8	0.63
1,2-Dibromo-3-Chloropropane	ND	4.8	0.71
1,2,4-Trichlorobenzene	ND	4.8	0.40
Hexachlorobutadiene	ND	4.8	0.54
Naphthalene	ND	4.8	0.32
1,2,3-Trichlorobenzene	ND	4.8	0.63

Surrogate	%REC	Limits
Dibromofluoromethane	114	78-126
1,2-Dichloroethane-d4	111	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	117	80-121

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

50.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC433729	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136185
Units:	ug/Kg	Analyzed:	03/20/08

Analyte	Result	RL	MDL
Freon 12	ND	10	0.41
Chloromethane	ND	10	0.38
Vinyl Chloride	ND	10	0.46
Bromomethane	ND	10	1.0
Chloroethane	ND	10	0.27
Trichlorofluoromethane	ND	5.0	0.46
Acetone	ND	20	1.3
Freon 113	ND	5.0	0.68
1,1-Dichloroethene	ND	5.0	0.55
Methylene Chloride	0.78 J	20	0.50
Carbon Disulfide	ND	5.0	0.39
MTBE	ND	5.0	0.44
trans-1,2-Dichloroethene	ND	5.0	0.75
Vinyl Acetate	ND	50	0.64
1,1-Dichloroethane	ND	5.0	0.45
2-Butanone	ND	10	0.58
cis-1,2-Dichloroethene	ND	5.0	0.33
2,2-Dichloropropane	ND	5.0	0.26
Chloroform	ND	5.0	0.15
Bromochloromethane	ND	5.0	0.47
1,1,1-Trichloroethane	ND	5.0	0.36
1,1-Dichloropropene	ND	5.0	0.31
Carbon Tetrachloride	ND	5.0	0.56
1,2-Dichloroethane	ND	5.0	0.32
Benzene	ND	5.0	0.13
Trichloroethene	ND	5.0	0.44
1,2-Dichloropropane	ND	5.0	0.43
Bromodichloromethane	ND	5.0	0.48
Dibromomethane	ND	5.0	0.32
4-Methyl-2-Pentanone	ND	10	0.63
cis-1,3-Dichloropropene	ND	5.0	0.19
Toluene	ND	5.0	0.35
trans-1,3-Dichloropropene	ND	5.0	0.46
1,1,2-Trichloroethane	ND	5.0	0.38
2-Hexanone	ND	10	0.78
1,3-Dichloropropane	ND	5.0	0.39
Tetrachloroethene	ND	5.0	0.79
Dibromochloromethane	ND	5.0	0.45
1,2-Dibromoethane	ND	5.0	0.52
Chlorobenzene	ND	5.0	0.44
1,1,1,2-Tetrachloroethane	ND	5.0	0.39
Ethylbenzene	ND	5.0	0.50
m,p-Xylenes	ND	5.0	0.92
o-Xylene	ND	5.0	0.56
Styrene	ND	5.0	0.46
Bromoform	ND	5.0	0.64
Isopropylbenzene	ND	5.0	0.65
1,1,2,2-Tetrachloroethane	ND	5.0	0.57
1,2,3-Trichloropropane	ND	5.0	0.59
Propylbenzene	ND	5.0	0.56
Bromobenzene	ND	5.0	0.46
1,3,5-Trimethylbenzene	ND	5.0	0.52

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

52.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC433729	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136185
Units:	ug/Kg	Analyzed:	03/20/08

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.58
4-Chlorotoluene	ND	5.0	0.58
tert-Butylbenzene	ND	5.0	0.69
1,2,4-Trimethylbenzene	ND	5.0	0.55
sec-Butylbenzene	ND	5.0	0.62
para-Isopropyl Toluene	ND	5.0	0.58
1,3-Dichlorobenzene	ND	5.0	0.42
1,4-Dichlorobenzene	ND	5.0	0.49
n-Butylbenzene	ND	5.0	0.49
1,2-Dichlorobenzene	ND	5.0	0.48
1,2-Dibromo-3-Chloropropane	ND	5.0	0.80
1,2,4-Trichlorobenzene	ND	5.0	0.46
Hexachlorobutadiene	ND	5.0	0.49
Naphthalene	2.0 J	5.0	0.19
1,2,3-Trichlorobenzene	0.69 J	5.0	0.33

Surrogate	%REC	Limits
Dibromofluoromethane	88	78-126
1,2-Dichloroethane-d4	94	76-137
Toluene-d8	99	80-120
Bromofluorobenzene	111	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

52.0

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC433939	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136236
Units:	ug/Kg	Analyzed:	03/21/08

Analyte	Result	RL	MDL
Freon 12	ND	10	1.1
Chloromethane	ND	10	0.45
Vinyl Chloride	ND	10	0.39
Bromomethane	ND	10	0.39
Chloroethane	ND	10	0.35
Trichlorofluoromethane	ND	5.0	0.57
Acetone	ND	20	1.5
Freon 113	ND	5.0	0.45
1,1-Dichloroethene	ND	5.0	0.48
Methylene Chloride	7.0 J b	20	0.61
Carbon Disulfide	ND	5.0	0.78
MTBE	ND	5.0	0.61
trans-1,2-Dichloroethene	ND	5.0	0.73
Vinyl Acetate	ND	50	0.57
1,1-Dichloroethane	ND	5.0	0.76
2-Butanone	ND	10	0.81
cis-1,2-Dichloroethene	ND	5.0	0.81
2,2-Dichloropropane	ND	5.0	0.72
Chloroform	ND	5.0	0.80
Bromochloromethane	ND	5.0	0.80
1,1,1-Trichloroethane	ND	5.0	0.62
1,1-Dichloropropene	ND	5.0	0.56
Carbon Tetrachloride	ND	5.0	0.64
1,2-Dichloroethane	ND	5.0	0.83
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.74
1,2-Dichloropropane	ND	5.0	0.67
Bromodichloromethane	ND	5.0	0.91
Dibromomethane	ND	5.0	0.73
4-Methyl-2-Pentanone	ND	10	0.57
cis-1,3-Dichloropropene	ND	5.0	0.64
Toluene	ND	5.0	0.52
trans-1,3-Dichloropropene	ND	5.0	0.69
1,1,2-Trichloroethane	ND	5.0	0.77
2-Hexanone	ND	10	0.61
1,3-Dichloropropane	ND	5.0	0.82
Tetrachloroethene	ND	5.0	0.74
Dibromochloromethane	ND	5.0	0.66
1,2-Dibromoethane	ND	5.0	0.70
Chlorobenzene	ND	5.0	0.60
1,1,1,2-Tetrachloroethane	ND	5.0	0.76
Ethylbenzene	ND	5.0	0.67
m,p-Xylenes	ND	5.0	1.2
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.57
Bromoform	ND	5.0	0.75
Isopropylbenzene	ND	5.0	0.44
1,1,2,2-Tetrachloroethane	ND	5.0	0.76
1,2,3-Trichloropropane	ND	5.0	0.69
Propylbenzene	ND	5.0	0.57
Bromobenzene	ND	5.0	0.67

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC433939	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136236
Units:	ug/Kg	Analyzed:	03/21/08

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	5.0	0.54
2-Chlorotoluene	ND	5.0	0.59
4-Chlorotoluene	ND	5.0	0.54
tert-Butylbenzene	0.72 J	5.0	0.48
1,2,4-Trimethylbenzene	0.58 J	5.0	0.52
sec-Butylbenzene	0.66 J	5.0	0.42
para-Isopropyl Toluene	0.69 J	5.0	0.45
1,3-Dichlorobenzene	ND	5.0	0.59
1,4-Dichlorobenzene	ND	5.0	0.68
n-Butylbenzene	0.55 J	5.0	0.44
1,2-Dichlorobenzene	ND	5.0	0.65
1,2-Dibromo-3-Chloropropane	ND	5.0	0.73
1,2,4-Trichlorobenzene	ND	5.0	0.42
Hexachlorobutadiene	ND	5.0	0.56
Naphthalene	0.98 J	5.0	0.33
1,2,3-Trichlorobenzene	ND	5.0	0.65

Surrogate	%REC	Limits
Dibromofluoromethane	104	78-126
1,2-Dichloroethane-d4	104	76-137
Toluene-d8	104	80-120
Bromofluorobenzene	104	80-121

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC433728	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136185
Units:	ug/Kg	Analyzed:	03/20/08

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.03	92	71-133
Benzene	25.00	25.31	101	79-123
Trichloroethene	25.00	24.87	99	79-124
Toluene	25.00	24.41	98	80-123
Chlorobenzene	25.00	26.26	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	90	78-126
1,2-Dichloroethane-d4	94	76-137
Toluene-d8	100	80-120
Bromofluorobenzene	104	80-121

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	136236
Basis:	as received	Analyzed:	03/21/08

Type: BS Lab ID: QC433940

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.84	111	71-133
Benzene	25.00	26.05	104	79-123
Trichloroethene	25.00	25.59	102	79-124
Toluene	25.00	25.84	103	80-123
Chlorobenzene	25.00	25.43	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-126
1,2-Dichloroethane-d4	102	76-137
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-121

Type: BSD Lab ID: QC433941

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	28.03	112	71-133	1	20
Benzene	25.00	25.57	102	79-123	2	20
Trichloroethene	25.00	25.56	102	79-124	0	20
Toluene	25.00	25.43	102	80-123	2	20
Chlorobenzene	25.00	24.44	98	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	112	78-126
1,2-Dichloroethane-d4	104	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX307[6.0]	Batch#:	136185
MSS Lab ID:	202043-001	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Analyzed:	03/20/08
Basis:	dry		

Type: MS
Lab ID: QC433792

Moisture: 22%
Diln Fac: 0.7576

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5476	48.56	44.79	92	55-139
Benzene	<0.1315	48.56	45.34	93	55-120
Trichloroethene	<0.4416	48.56	49.88	103	47-140
Toluene	<0.3500	48.56	50.83	105	52-121
Chlorobenzene	<0.4386	48.56	47.20	97	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	86	78-126
1,2-Dichloroethane-d4	85	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	101	80-121

Type: MSD
Lab ID: QC433793

Moisture: 22%
Diln Fac: 0.8197

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	52.54	52.21	99	55-139	7	29
Benzene	52.54	49.00	93	55-120	0	26
Trichloroethene	52.54	57.42	109	47-140	6	28
Toluene	52.54	54.18	103	52-121	1	29
Chlorobenzene	52.54	56.39	107	47-120	10	29

Surrogate	%REC	Limits
Dibromofluoromethane	85	78-126
1,2-Dichloroethane-d4	83	76-137
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-121

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Run Name : BFB IDF : 1.0
Seqnum : 438107113004 File : dce04 Time : 14-MAR-2008 12:21

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	6101	25.23	
75	30% - 60% of mass 95	12881	53.27	
95		24179		
96	5% - 9% of mass 95	1609	6.65	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	20012	82.77	
175	5% - 9% of mass 174	1488	7.44	
176	> 95% and < 101% of mass 174	19999	99.94	
177	5% - 9% of mass 176	1339	6.70	

Analyst: MJD Date: 03/17/08 Reviewer: LW Date: 03/18/08

438107113004

CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Run Name : BFB IDF : 1.0
Seqnum : 438109986002 File : dcg02 Time : 16-MAR-2008 09:52

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	10036	23.53	
75	30% - 60% of mass 95	23751	55.68	
95		42653		
96	5% - 9% of mass 95	2981	6.99	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	35392	82.98	
175	5% - 9% of mass 174	2619	7.40	
176	> 95% and < 101% of mass 174	34962	98.79	
177	5% - 9% of mass 176	2318	6.63	

Analyst: MJD Date: 03/17/08 Reviewer: LW Date: 03/18/08

438109986002

CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Run Name : BFB IDF : 1.0
Seqnum : 438117134003 File : dcl03 Time : 21-MAR-2008 08:56

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	4568	23.18	
75	30% - 60% of mass 95	10169	51.60	
95		19708		
96	5% - 9% of mass 95	1495	7.59	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	15539	78.85	
175	5% - 9% of mass 174	1183	7.61	
176	> 95% and < 101% of mass 174	15437	99.34	
177	5% - 9% of mass 176	1099	7.12	

Analyst: MJD Date: 03/21/08 Reviewer: ACM Date: 03/21/08

438117134003

CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448110396004 File : ecg04 Time : 16-MAR-2008 17:22

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	8572	22.62	
75	30% - 60% of mass 95	19420	51.25	
95		37890		
96	5% - 9% of mass 95	2524	6.66	
173	< 2% of mass 174	59	0.18	
174	> 50% and < 100% of mass 95	32464	85.68	
175	5% - 9% of mass 174	2273	7.00	
176	> 95% and < 101% of mass 174	30896	95.17	
177	5% - 9% of mass 176	2333	7.55	

Analyst: BO Date: 03/17/08 Reviewer: LW Date: 03/18/08

448110396004

CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448111347002 File : ech02 Time : 17-MAR-2008 08:39

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	13445	23.43	
75	30% - 60% of mass 95	28730	50.07	
95		57384		
96	5% - 9% of mass 95	3863	6.73	
173	< 2% of mass 174	162	0.36	
174	> 50% and < 100% of mass 95	45301	78.94	
175	5% - 9% of mass 174	3186	7.03	
176	> 95% and < 101% of mass 174	43168	95.29	
177	5% - 9% of mass 176	2746	6.36	

Analyst: BO Date: 03/17/08 Reviewer: LW Date: 03/18/08

448111347002

CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448115696002 File : eck02 Time : 20-MAR-2008 08:43

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	4010	20.17	
75	30% - 60% of mass 95	9874	49.68	
95		19877		
96	5% - 9% of mass 95	1116	5.61	
173	< 2% of mass 174	77	0.46	
174	> 50% and < 100% of mass 95	16862	84.83	
175	5% - 9% of mass 174	1185	7.03	
176	> 95% and < 101% of mass 174	16610	98.51	
177	5% - 9% of mass 176	1097	6.60	

Analyst: BO Date: 03/20/08 Reviewer: LW Date: 03/20/08

448115696002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 MSVOA Soil: EPA 8260B

Inst : MSVOA04
Calnum : 438107113004
Units : ug/L

Name : 826GOX4S
Date : 14-MAR-2008 14:57
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	dce08	438107113008	2.5PPB	14-MAR-2008 14:57	S8668 (200000X), S8400 (200000X), S8549 (5000X)
L2	dce09	438107113009	5PPB	14-MAR-2008 15:31	S8668 (100000X), S8400 (100000X), S8549 (5000X)
L3	dce10	438107113010	10PPB	14-MAR-2008 16:05	S8668 (50000X), S8400 (50000X), S8549 (5000X)
L4	dce11	438107113011	20PPB	14-MAR-2008 16:38	S8668 (25000X), S8400 (25000X), S8549 (5000X)
L5	dce12	438107113012	50PPB	14-MAR-2008 17:12	S8668 (10000X), S8400 (10000X), S8549 (5000X)
L6	dce13	438107113013	60PPB	14-MAR-2008 17:46	S8668 (8333X), S8400 (8333X), S8549 (5000X)
L7	dce14	438107113014	75PPB	14-MAR-2008 18:19	S8668 (6667X), S8400 (6667X), S8549 (5000X)
L8	dce15	438107113015	100PPB	14-MAR-2008 18:54	S8668 (5000X), S8400 (5000X), S8549 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.7905m	1.3121	1.4096	1.3547	1.2493	1.2292	1.2779	LINR	-0.1812	0.78754		1.2319	0.997	15	0.05	0.99	
Chloromethane		0.6707	1.1373	1.1288	1.0951	1.0373	1.0307	1.0114	LINR	-0.8842	0.98031		1.0159	0.997	15	0.10	0.99	
Vinyl Chloride	1.0516	0.6316	1.0694	1.0839	1.0323	0.9674	0.9686	0.9418	AVRG		1.03270		0.9683	15	15	0.05	0.99	
Bromomethane		0.3931	0.7331	0.7463	0.7091	0.7047	0.7064	0.6813	LINR	-0.1955	1.44063		0.6677	0.998	15	0.05	0.99	
Chloroethane		0.3734	0.5697	0.5551	0.5370	0.5070	0.5173	0.5039	AVRG		1.96447		0.5090	13	15	0.05	0.99	
Trichlorofluoromethane		0.7119	1.2064	1.2216	1.1884	1.0943	1.0974	1.1124	LINR	-0.4436	0.90081		1.0904	0.997	15	0.05	0.99	
Acetone			0.3384	0.4230	0.3579	0.3549	0.3539	0.3355	AVRG		2.77308		0.3606	9	15	0.05	0.99	
Freon 113		0.7367	0.6555	0.7557	0.7734	0.7312	0.7462	0.7409	AVRG		1.36199		0.7342	5	15	0.05	0.99	
1,1-Dichloroethene		0.6588	0.6377	0.6387	0.6387	0.5889	0.6183	0.5874	AVRG		1.60240		0.6241	4	15	0.05	0.99	
Methylene Chloride			0.8533	0.7926	0.7524	0.7510	0.7399	0.7243	AVRG		1.30054		0.7689	6	15	0.05	0.99	
Carbon Disulfide		2.3254	2.2757	2.3112	2.2725	2.2456	2.1986	2.1126	AVRG		0.44468		2.2488	3	15	0.05	0.99	
MTBE		1.8029	1.8783	1.9736	1.9360	1.9490	1.9245	1.8353	AVRG		0.52633		1.9000	3	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6659	0.6319	0.6307	0.6300	0.6281	0.6371	0.6200	AVRG		1.57529		0.6348	2	15	0.05	0.99	
Vinyl Acetate			1.4824	1.6765	1.6526	1.6369	1.6448	1.5465	AVRG		0.62243		1.6066	5	15	0.05	0.99	
1,1-Dichloroethane		1.2960	1.3083	1.2785	1.2515	1.2316	1.2122	1.1597	AVRG		0.80111		1.2483	4	15	0.10	0.99	
2-Butanone			0.4177	0.4849	0.4404	0.4304	0.4324	0.3959	AVRG		2.30608		0.4336	7	15	0.05	0.99	
2,2-Dichloropropane		0.9572	0.9510	0.9997	1.0164	0.9958	0.9658	0.9579	AVRG		1.02282		0.9777	3	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7001	0.7102	0.7042	0.6807	0.6969	0.6858	0.6567	AVRG		1.44791		0.6907	3	15	0.05	0.99	
Chloroform		1.3293	1.3172	1.2881	1.2512	1.2259	1.2111	1.1683	AVRG		0.79625		1.2559	5	15	0.05	0.99	
Bromochloromethane		0.4016	0.3932	0.3935	0.3948	0.3949	0.3881	0.3793	AVRG		2.54966		0.3922	2	15	0.05	0.99	
1,1,1-Trichloroethane		0.9285	0.9268	0.9669	1.0046	0.9868	0.9917	0.9676	AVRG		1.03352		0.9676	3	15	0.05	0.99	
1,1-Dichloropropene		0.6070	0.5798	0.5952	0.6095	0.6005	0.5929	0.5714	AVRG		1.68420		0.5938	2	15	0.05	0.99	
Carbon Tetrachloride		0.3936	0.4187	0.4817	0.5394	0.5217	0.5278	0.5310	AVRG		2.05040		0.4877	12	15	0.05	0.99	
1,2-Dichloroethane		0.6946	0.7055	0.6884	0.6622	0.6636	0.6429	0.6298	AVRG		1.49353		0.6696	4	15	0.05	0.99	
Benzene		1.6620	1.5914	1.6025	1.5815	1.5704	1.5376	1.4796	AVRG		0.63493		1.5750	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4435	0.4473	0.4386	0.4503	0.4440	0.4345	0.4300	AVRG		2.26668		0.4412	2	15	0.05	0.99	
1,2-Dichloropropane		0.4858	0.4847	0.4670	0.4529	0.4556	0.4478	0.4270	AVRG		2.17332		0.4601	5	15	0.05	0.99	
Bromodichloromethane		0.6496	0.6487	0.6634	0.6644	0.6697	0.6472	0.6279	AVRG		1.53147		0.6530	2	15	0.05	0.99	
Dibromomethane		0.3398	0.3443	0.3476	0.3368	0.3356	0.3279	0.3192	AVRG		2.97702		0.3359	3	15	0.05	0.99	
4-Methyl-2-Pentanone			0.6016	0.6616	0.6178	0.6145	0.6123	0.5732	AVRG		1.62999		0.6135	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6794	0.6851	0.6942	0.6923	0.6821	0.6744	0.6465	AVRG		1.47245		0.6791	2	15	0.05	0.99	
Toluene		0.9670	0.9670	0.9369	0.9299	0.9244	0.9114	0.8848	AVRG		1.07338		0.9316	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6193	0.6437	0.6631	0.6694	0.6862	0.6650	0.6402	AVRG		1.52608		0.6553	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.2004	0.2189	0.2206	0.2137	0.2166	0.2149	0.2066	AVRG		4.69278		0.2131	3	15	0.05	0.99	
2-Hexanone			0.5081	0.6022	0.5239	0.5049	0.5055	0.4707	AVRG		1.92599		0.5192	9	15	0.05	0.99	
1,3-Dichloropropane		0.7330	0.7728	0.7957	0.7921	0.7900	0.7840	0.7595	AVRG		1.28982		0.7753	3	15	0.05	0.99	
Tetrachloroethene		0.5260	0.4972	0.5213	0.5178	0.5215	0.5298	0.5247	AVRG		1.92400		0.5197	2	15	0.05	0.99	
Dibromochloromethane		0.4990	0.5359	0.5752	0.5816	0.5903	0.6023	0.5886	AVRG		1.76196		0.5675	6	15	0.05	0.99	
1,2-Dibromoethane		0.4121	0.4056	0.4284	0.4119	0.4191	0.4197	0.4034	AVRG		2.41365		0.4143	2	15	0.05	0.99	
Chlorobenzene		1.1747	1.1411	1.1315	1.1192	1.1163	1.1113	1.0825	AVRG		0.88871		1.1252	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3885	0.4110	0.4280	0.4358	0.4416	0.4453	0.4440	AVRG		2.33785		0.4277	5	15	0.05	0.99	
Ethylbenzene		2.1412	2.0552	2.0700	1.9692	1.9273	1.8722	1.8101	AVRG		0.50559		1.9779	6	15	0.05	0.99	
m,p-Xylenes	0.7778	0.7622	0.7321	0.7300	0.7280	0.7187	0.7140	0.6983	AVRG		1.36494		0.7326	4	15	0.05	0.99	
o-Xylene		0.7626	0.7522	0.7544	0.7557	0.7434	0.7413	0.7278	AVRG		1.33652		0.7482	2	15	0.05	0.99	
Styrene		1.3527	1.3334	1.3092	1.2711	1.2528	1.2344	1.2040	AVRG		0.78146		1.2797	4	15	0.05	0.99	
Bromoform		0.3488	0.3550	0.4047	0.4143	0.4393	0.4399	0.4343	AVRG		2.46803		0.4052	10	15	0.10	0.99	
Isopropylbenzene		3.7242	3.4998	3.6426	3.5227	3.3891	3.2969	3.2323	AVRG		0.28797		3.4725	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.1014	1.0818	1.2140	1.1952	1.1834	1.1739	1.1286	AVRG		0.86651		1.1540	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.9864	1.0018	1.0704	0.9788	1.0001	0.9777	0.9336	AVRG		1.00735		0.9927	4	15	0.05	0.99	
Propylbenzene		4.7507	4.4215	4.5166	4.3303	4.1369	3.9400	3.7981	AVRG		0.23416		4.2706	8	15	0.05	0.99	
Bromobenzene		1.0344	0.9929	1.0241	1.0149	1.0157	1.0007	0.9955	AVRG		0.98894		1.0112	2	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.0023	2.9256	2.9350	2.7041	2.7816	2.6553	2.6041	AVRG		0.35700		2.8011	6	15	0.05	0.99	
2-Chlorotoluene		3.1753	2.9780	2.9975	2.7980	2.8261	2.7179	2.6497	AVRG		0.34752		2.8775	6	15	0.05	0.99	
4-Chlorotoluene		2.8863	2.7889	2.8201	2.7113	2.6903	2.5964	2.5306	AVRG		0.36796		2.7177	5	15	0.05	0.99	
tert-Butylbenzene		2.5558	2.4219	2.5561	2.5514	2.5061	2.4172	2.4104	AVRG		0.40186		2.4884	3	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.0333	2.9714	2.9933	2.7981	2.8469	2.7282	2.6586	AVRG		0.34948		2.8614	5	15	0.05	0.99	
sec-Butylbenzene		3.9502	3.7193	3.9935	3.7870	3.7726	3.6279	3.5396	AVRG		0.26525		3.7700	4	15	0.05	0.99	
para-Isopropyl Toluene		3.3563	3.1132	3.3195	3.0145	3.1887	3.0784	2.9943	AVRG		0.31725		3.1521	5	15	0.05	0.99	
1,3-Dichlorobenzene		1.9033	1.8886	1.9016	1.8214	1.8401	1.7849	1.7582	AVRG		0.54271		1.8426	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.8576	1.8158	1.8681	1.8592	1.8761	1.8060	1.7749	AVRG		0.54442		1.8368	2	15	0.05	0.99	
n-Butylbenzene		3.3990	3.2669	3.4628	3.3579	3.2117	3.0959	2.9969	AVRG		0.30714		3.2559	5	15	0.05	0.99	
1,2-Dichlorobenzene		1.7950	1.7611	1.8007	1.7709	1.7799	1.7108	1.6950	AVRG		0.56849		1.7591	2	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2615	0.2518	0.2962	0.2768	0.2840	0.2793	0.2694	AVRG		3.64765		0.2741	5	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.2688	1.2638	1.3011	1.3175	1.3131	1.2709	1.2550	AVRG		0.77863		1.2843	2	15	0.05	0.99	
Hexachlorobutadiene		0.7864	0.6811	0.7426	0.7696	0.7514	0.7349	0.7554	AVRG		1.34063		0.7459	4	15	0.05	0.99	
Naphthalene		2.7656	2.8036	3.0829	3.0267	3.0643	3.0062	2.9100	AVRG		0.33883		2.9513	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		1.1114	1.1463	1.2189	1.2172	1.2412	1.1981	1.1831	AVRG		0.84174		1.1880	4	15	0.05	0.99	
Dibromofluoromethane	0.5506	0.5641	0.5724	0.5812	0.5741	0.5686	0.5764	0.5656	AVRG		1.75711		0.5691	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.4653	0.4675	0.4667	0.4635	0.4390	0.4227	0.4124	0.3990	AVRG		2.26237		0.4420	6	15	0.05	0.99	
Trifluorotoluene		0.7135	0.6619	0.6863	0.7075	0.6887	0.6835	0.6774	AVRG		1.45264		0.6884	3	15	0.05	0.99	
Toluene-d8	1.0823	1.0712	1.0632	1.0453	1.0238	1.0283	1.0024	1.0006	AVRG		0.96188		1.0396	3	15	0.05	0.99	
Bromofluorobenzene	0.9779	0.9748	0.9501	0.9376	0.9411	0.9121	0.9116	0.9140	AVRG		1.06395		0.9399	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-41	10.00	2	20.00	10	50.00	6	60.00	-2	75.00	-3	100.0	0
Chloromethane			5.000	-52	10.00	3	20.00	6	50.00	6	60.00	0	75.00	0	100.0	-2
Vinyl Chloride	2.500	9	5.000	-35	10.00	10	20.00	12	50.00	7	60.00	0	75.00	0	100.0	-3
Bromomethane			5.000	-47	10.00	4	20.00	7	50.00	2	60.00	1	75.00	2	100.0	-2
Chloroethane			5.000	-27	10.00	12	20.00	9	50.00	5	60.00	0	75.00	2	100.0	-1
Trichlorofluoromethane			5.000	-45	10.00	4	20.00	8	50.00	6	60.00	-2	75.00	-2	100.0	0
Acetone					10.00	-6	20.00	17	50.00	-1	60.00	-2	75.00	-2	100.0	-7
Freon 113			5.000	0	10.00	-11	20.00	3	50.00	5	60.00	0	75.00	2	100.0	1
1,1-Dichloroethene			5.000	6	10.00	2	20.00	2	50.00	2	60.00	-6	75.00	-1	100.0	-6
Methylene Chloride					10.00	11	20.00	3	50.00	-2	60.00	-2	75.00	-4	100.0	-6
Carbon Disulfide			5.000	3	10.00	1	20.00	3	50.00	1	60.00	0	75.00	-2	100.0	-6
MTBE			5.000	-5	10.00	-1	20.00	4	50.00	2	60.00	3	75.00	1	100.0	-3
trans-1,2-Dichloroethene			5.000	5	10.00	0	20.00	-1	50.00	-1	60.00	-1	75.00	0	100.0	-2
Vinyl Acetate					10.00	-8	20.00	4	50.00	3	60.00	2	75.00	2	100.0	-4
1,1-Dichloroethane			5.000	4	10.00	5	20.00	2	50.00	0	60.00	-1	75.00	-3	100.0	-7
2-Butanone					10.00	-4	20.00	12	50.00	2	60.00	-1	75.00	0	100.0	-9
2,2-Dichloropropane			5.000	-2	10.00	-3	20.00	2	50.00	4	60.00	2	75.00	-1	100.0	-2
cis-1,2-Dichloroethene			5.000	1	10.00	3	20.00	2	50.00	-1	60.00	1	75.00	-1	100.0	-5
Chloroform			5.000	6	10.00	5	20.00	3	50.00	0	60.00	-2	75.00	-4	100.0	-7
Bromochloromethane			5.000	2	10.00	0	20.00	0	50.00	1	60.00	1	75.00	-1	100.0	-3
1,1,1-Trichloroethane			5.000	-4	10.00	-4	20.00	0	50.00	4	60.00	2	75.00	2	100.0	0
1,1-Dichloropropene			5.000	2	10.00	-2	20.00	0	50.00	3	60.00	1	75.00	0	100.0	-4
Carbon Tetrachloride			5.000	-19	10.00	-14	20.00	-1	50.00	11	60.00	7	75.00	8	100.0	9
1,2-Dichloroethane			5.000	4	10.00	5	20.00	3	50.00	-1	60.00	-1	75.00	-4	100.0	-6
Benzene			5.000	6	10.00	1	20.00	2	50.00	0	60.00	0	75.00	-2	100.0	-6
Trichloroethene			5.000	1	10.00	1	20.00	-1	50.00	2	60.00	1	75.00	-2	100.0	-3
1,2-Dichloropropane			5.000	6	10.00	5	20.00	1	50.00	-2	60.00	-1	75.00	-3	100.0	-7
Bromodichloromethane			5.000	-1	10.00	-1	20.00	2	50.00	2	60.00	3	75.00	-1	100.0	-4
Dibromomethane			5.000	1	10.00	2	20.00	3	50.00	0	60.00	0	75.00	-2	100.0	-5
4-Methyl-2-Pentanone					10.00	-2	20.00	8	50.00	1	60.00	0	75.00	0	100.0	-7
cis-1,3-Dichloropropene			5.000	0	10.00	1	20.00	2	50.00	2	60.00	0	75.00	-1	100.0	-5
Toluene			5.000	4	10.00	4	20.00	1	50.00	0	60.00	-1	75.00	-2	100.0	-5
trans-1,3-Dichloropropene			5.000	-5	10.00	-2	20.00	1	50.00	2	60.00	5	75.00	1	100.0	-2
1,1,2-Trichloroethane			5.000	-6	10.00	3	20.00	4	50.00	0	60.00	2	75.00	1	100.0	-3
2-Hexanone					10.00	-2	20.00	16	50.00	1	60.00	-3	75.00	-3	100.0	-9
1,3-Dichloropropane			5.000	-5	10.00	0	20.00	3	50.00	2	60.00	2	75.00	1	100.0	-2
Tetrachloroethene			5.000	1	10.00	-4	20.00	0	50.00	0	60.00	0	75.00	2	100.0	1
Dibromochloromethane			5.000	-12	10.00	-6	20.00	1	50.00	2	60.00	4	75.00	6	100.0	4
1,2-Dibromoethane			5.000	-1	10.00	-2	20.00	3	50.00	-1	60.00	1	75.00	1	100.0	-3
Chlorobenzene			5.000	4	10.00	1	20.00	1	50.00	-1	60.00	-1	75.00	-1	100.0	-4
1,1,1,2-Tetrachloroethane			5.000	-9	10.00	-4	20.00	0	50.00	2	60.00	3	75.00	4	100.0	4
Ethylbenzene			5.000	8	10.00	4	20.00	5	50.00	0	60.00	-3	75.00	-5	100.0	-8

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	6	10.00	4	20.00	0	40.00	0	100.0	-1	120.0	-2	150.0	-3	200.0	-5
o-Xylene			5.000	2	10.00	1	20.00	1	50.00	1	60.00	-1	75.00	-1	100.0	-3
Styrene			5.000	6	10.00	4	20.00	2	50.00	-1	60.00	-2	75.00	-4	100.0	-6
Bromoform			5.000	-14	10.00	-12	20.00	0	50.00	2	60.00	8	75.00	9	100.0	7
Isopropylbenzene			5.000	7	10.00	1	20.00	5	50.00	1	60.00	-2	75.00	-5	100.0	-7
1,1,2,2-Tetrachloroethane			5.000	-5	10.00	-6	20.00	5	50.00	4	60.00	3	75.00	2	100.0	-2
1,2,3-Trichloropropane			5.000	-1	10.00	1	20.00	8	50.00	-1	60.00	1	75.00	-2	100.0	-6
Propylbenzene			5.000	11	10.00	4	20.00	6	50.00	1	60.00	-3	75.00	-8	100.0	-11
Bromobenzene			5.000	2	10.00	-2	20.00	1	50.00	0	60.00	0	75.00	-1	100.0	-2
1,3,5-Trimethylbenzene			5.000	7	10.00	4	20.00	5	50.00	-3	60.00	-1	75.00	-5	100.0	-7
2-Chlorotoluene			5.000	10	10.00	3	20.00	4	50.00	-3	60.00	-2	75.00	-6	100.0	-8
4-Chlorotoluene			5.000	6	10.00	3	20.00	4	50.00	0	60.00	-1	75.00	-4	100.0	-7
tert-Butylbenzene			5.000	3	10.00	-3	20.00	3	50.00	3	60.00	1	75.00	-3	100.0	-3
1,2,4-Trimethylbenzene			5.000	6	10.00	4	20.00	5	50.00	-2	60.00	-1	75.00	-5	100.0	-7
sec-Butylbenzene			5.000	5	10.00	-1	20.00	6	50.00	0	60.00	0	75.00	-4	100.0	-6
para-Isopropyl Toluene			5.000	6	10.00	-1	20.00	5	50.00	-4	60.00	1	75.00	-2	100.0	-5
1,3-Dichlorobenzene			5.000	3	10.00	2	20.00	3	50.00	-1	60.00	0	75.00	-3	100.0	-5
1,4-Dichlorobenzene			5.000	1	10.00	-1	20.00	2	50.00	1	60.00	2	75.00	-2	100.0	-3
n-Butylbenzene			5.000	4	10.00	0	20.00	6	50.00	3	60.00	-1	75.00	-5	100.0	-8
1,2-Dichlorobenzene			5.000	2	10.00	0	20.00	2	50.00	1	60.00	1	75.00	-3	100.0	-4
1,2-Dibromo-3-Chloropropane			5.000	-5	10.00	-8	20.00	8	50.00	1	60.00	4	75.00	2	100.0	-2
1,2,4-Trichlorobenzene			5.000	-1	10.00	-2	20.00	1	50.00	3	60.00	2	75.00	-1	100.0	-2
Hexachlorobutadiene			5.000	5	10.00	-9	20.00	0	50.00	3	60.00	1	75.00	-1	100.0	1
Naphthalene			5.000	-6	10.00	-5	20.00	4	50.00	3	60.00	4	75.00	2	100.0	-1
1,2,3-Trichlorobenzene			5.000	-6	10.00	-4	20.00	3	50.00	2	60.00	4	75.00	1	100.0	0
Dibromofluoromethane	50.00	-3	50.00	-1	50.00	1	50.00	2	50.00	1	50.00	0	50.00	1	50.00	-1
1,2-Dichloroethane-d4	50.00	5	50.00	6	50.00	6	50.00	5	50.00	-1	50.00	-4	50.00	-7	50.00	-10
Trifluorotoluene			5.000	4	10.00	-4	20.00	0	50.00	3	60.00	0	75.00	-1	100.0	-2
Toluene-d8	50.00	4	50.00	3	50.00	2	50.00	1	50.00	-2	50.00	-1	50.00	-4	50.00	-4
Bromofluorobenzene	50.00	4	50.00	4	50.00	1	50.00	0	50.00	0	50.00	-3	50.00	-3	50.00	-3

Analyst: MJD Date: 03/17/08 Reviewer: LW Date: 03/18/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Name : 826GOX4S
Calnum : 438107113004 Cal Date : 14-MAR-2008 Type : SOIL

ICV 438107113017 (dce17 14-MAR-2008) stds: S8538 (10000X), S8648 (10000X), S8549 (5000X)
ICV 438109986008 (dcg08 16-MAR-2008) stds: S8534 (10000X), S8549 (5000X)

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	438109986008	16-MAR-2008	1.2319	0.8829	25.00	17.20	ug/L	**-31**	20	v- ***
Chloromethane	438109986008	16-MAR-2008	1.0159	0.9353	25.00	22.04	ug/L	-12	20	
Vinyl Chloride	438109986008	16-MAR-2008	0.9683	0.9538	25.00	24.62	ug/L	-2	20	
Bromomethane	438109986008	16-MAR-2008	0.6677	0.6149	25.00	21.95	ug/L	-12	20	
Chloroethane	438109986008	16-MAR-2008	0.5090	0.5388	25.00	26.46	ug/L	6	20	
Trichlorofluoromethane	438109986008	16-MAR-2008	1.0904	1.1687	25.00	25.88	ug/L	4	20	
Acetone	438107113017	14-MAR-2008	0.3606	0.3069	25.00	21.28	ug/L	-15	30	
Freon 113	438107113017	14-MAR-2008	0.7342	0.7673	25.00	26.13	ug/L	5	20	
1,1-Dichloroethene	438107113017	14-MAR-2008	0.6241	0.7209	25.00	28.88	ug/L	16	20	
Methylene Chloride	438107113017	14-MAR-2008	0.7689	0.8307	25.00	27.01	ug/L	8	20	
Carbon Disulfide	438107113017	14-MAR-2008	2.2488	2.2285	25.00	24.77	ug/L	-1	20	
MTBE	438107113017	14-MAR-2008	1.9000	1.9611	25.00	25.80	ug/L	3	20	
trans-1,2-Dichloroethene	438107113017	14-MAR-2008	0.6348	0.6786	25.00	26.72	ug/L	7	20	
Vinyl Acetate	438107113017	14-MAR-2008	1.6066	1.5685	25.00	24.41	ug/L	-2	30	
1,1-Dichloroethane	438107113017	14-MAR-2008	1.2483	1.3606	25.00	27.25	ug/L	9	20	
2-Butanone	438107113017	14-MAR-2008	0.4336	0.4630	25.00	26.69	ug/L	7	30	
2,2-Dichloropropane	438107113017	14-MAR-2008	0.9777	1.0566	25.00	27.02	ug/L	8	20	
cis-1,2-Dichloroethene	438107113017	14-MAR-2008	0.6907	0.7624	25.00	27.60	ug/L	10	20	
Chloroform	438107113017	14-MAR-2008	1.2559	1.3457	25.00	26.79	ug/L	7	20	
Bromochloromethane	438107113017	14-MAR-2008	0.3922	0.4135	25.00	26.36	ug/L	5	20	
1,1,1-Trichloroethane	438107113017	14-MAR-2008	0.9676	1.0328	25.00	26.69	ug/L	7	20	
1,1-Dichloropropene	438107113017	14-MAR-2008	0.5938	0.6502	25.00	27.38	ug/L	10	20	
Carbon Tetrachloride	438107113017	14-MAR-2008	0.4877	0.5275	25.00	27.04	ug/L	8	20	
1,2-Dichloroethane	438107113017	14-MAR-2008	0.6696	0.7329	25.00	27.37	ug/L	9	20	
Benzene	438107113017	14-MAR-2008	1.5750	1.7101	25.00	27.14	ug/L	9	20	
Trichloroethene	438107113017	14-MAR-2008	0.4412	0.4772	25.00	27.04	ug/L	8	20	
1,2-Dichloropropane	438107113017	14-MAR-2008	0.4601	0.4947	25.00	26.88	ug/L	8	20	
Bromodichloromethane	438107113017	14-MAR-2008	0.6530	0.7185	25.00	27.51	ug/L	10	20	
Dibromomethane	438107113017	14-MAR-2008	0.3359	0.3680	25.00	27.39	ug/L	10	20	
4-Methyl-2-Pentanone	438107113017	14-MAR-2008	0.6135	0.6203	25.00	25.28	ug/L	1	30	
cis-1,3-Dichloropropene	438107113017	14-MAR-2008	0.6791	0.7414	25.00	27.29	ug/L	9	20	
Toluene	438107113017	14-MAR-2008	0.9316	0.9955	25.00	26.71	ug/L	7	20	
trans-1,3-Dichloropropene	438107113017	14-MAR-2008	0.6553	0.6451	25.00	24.61	ug/L	-2	20	
1,1,2-Trichloroethane	438107113017	14-MAR-2008	0.2131	0.2320	25.00	27.22	ug/L	9	20	
2-Hexanone	438107113017	14-MAR-2008	0.5192	0.5322	25.00	25.62	ug/L	2	30	
1,3-Dichloropropane	438107113017	14-MAR-2008	0.7753	0.8345	25.00	26.91	ug/L	8	20	
Tetrachloroethene	438107113017	14-MAR-2008	0.5197	0.5454	25.00	26.23	ug/L	5	20	
Dibromochloromethane	438107113017	14-MAR-2008	0.5675	0.5932	25.00	26.13	ug/L	5	20	
1,2-Dibromoethane	438107113017	14-MAR-2008	0.4143	0.4474	25.00	27.00	ug/L	8	20	
Chlorobenzene	438107113017	14-MAR-2008	1.1252	1.1808	25.00	26.23	ug/L	5	20	
1,1,1,2-Tetrachloroethane	438107113017	14-MAR-2008	0.4277	0.4506	25.00	26.34	ug/L	5	20	
Ethylbenzene	438107113017	14-MAR-2008	1.9779	2.1594	25.00	27.29	ug/L	9	20	
m,p-Xylenes	438107113017	14-MAR-2008	0.7326	0.7738	50.00	52.81	ug/L	6	20	
o-Xylene	438107113017	14-MAR-2008	0.7482	0.7856	25.00	26.25	ug/L	5	20	
Styrene	438107113017	14-MAR-2008	1.2797	1.3670	25.00	26.71	ug/L	7	20	
Bromoform	438107113017	14-MAR-2008	0.4052	0.4271	25.00	26.35	ug/L	5	20	
Isopropylbenzene	438107113017	14-MAR-2008	3.4725	3.3413	25.00	24.06	ug/L	-4	20	

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	438107113017	14-MAR-2008	1.1540	1.2211	25.00	26.45	ug/L	6	20	
1,2,3-Trichloropropane	438107113017	14-MAR-2008	0.9927	1.0623	25.00	26.75	ug/L	7	20	
Propylbenzene	438107113017	14-MAR-2008	4.2706	4.6250	25.00	27.07	ug/L	8	20	
Bromobenzene	438107113017	14-MAR-2008	1.0112	1.0716	25.00	26.49	ug/L	6	20	
1,3,5-Trimethylbenzene	438107113017	14-MAR-2008	2.8011	3.0265	25.00	27.01	ug/L	8	20	
2-Chlorotoluene	438107113017	14-MAR-2008	2.8775	3.1165	25.00	27.08	ug/L	8	20	
4-Chlorotoluene	438107113017	14-MAR-2008	2.7177	2.8263	25.00	26.00	ug/L	4	20	
tert-Butylbenzene	438107113017	14-MAR-2008	2.4884	2.6840	25.00	26.96	ug/L	8	20	
1,2,4-Trimethylbenzene	438107113017	14-MAR-2008	2.8614	3.2028	25.00	27.98	ug/L	12	20	
sec-Butylbenzene	438107113017	14-MAR-2008	3.7700	4.0822	25.00	27.07	ug/L	8	20	
para-Isopropyl Toluene	438107113017	14-MAR-2008	3.1521	3.4270	25.00	27.18	ug/L	9	20	
1,3-Dichlorobenzene	438107113017	14-MAR-2008	1.8426	1.9241	25.00	26.11	ug/L	4	20	
1,4-Dichlorobenzene	438107113017	14-MAR-2008	1.8368	1.9129	25.00	26.04	ug/L	4	20	
n-Butylbenzene	438107113017	14-MAR-2008	3.2559	3.5846	25.00	27.52	ug/L	10	20	
1,2-Dichlorobenzene	438107113017	14-MAR-2008	1.7591	1.9002	25.00	27.01	ug/L	8	20	
1,2-Dibromo-3-Chloropropane	438107113017	14-MAR-2008	0.2741	0.2944	25.00	26.85	ug/L	7	20	
1,2,4-Trichlorobenzene	438107113017	14-MAR-2008	1.2843	1.3767	25.00	26.80	ug/L	7	20	
Hexachlorobutadiene	438107113017	14-MAR-2008	0.7459	0.7938	25.00	26.61	ug/L	6	20	
Naphthalene	438107113017	14-MAR-2008	2.9513	3.2631	25.00	27.64	ug/L	11	20	
1,2,3-Trichlorobenzene	438107113017	14-MAR-2008	1.1880	1.3044	25.00	27.45	ug/L	10	20	

-=low bias v=ICV

438107113004 ICVs

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 MSVOA Soil: EPA 8260B

Inst : MSVOA05
Calnum : 448110396001
Units : ug/L

Name : 826GOX5S
Date : 16-MAR-2008 18:55
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ecg07	448110396007	2.5PPB	16-MAR-2008 18:55	S8668 (200000X), S8400 (200000X), S8549 (5000X)
L2	ecg08	448110396008	5PPB	16-MAR-2008 19:28	S8668 (100000X), S8400 (100000X), S8549 (5000X)
L3	ecg09	448110396009	10PPB	16-MAR-2008 20:01	S8668 (50000X), S8400 (50000X), S8549 (5000X)
L4	ecg10	448110396010	20PPB	16-MAR-2008 20:35	S8668 (25000X), S8400 (25000X), S8549 (5000X)
L5	ecg11	448110396011	50PPB	16-MAR-2008 21:07	S8668 (10000X), S8400 (10000X), S8549 (5000X)
L6	ecg12	448110396012	60PPB	16-MAR-2008 21:40	S8668 (8333X), S8400 (8333X), S8549 (5000X)
L7	ecg13	448110396013	75PPB	16-MAR-2008 22:13	S8668 (6667X), S8400 (6667X), S8549 (5000X)
L8	ecg14	448110396014	100PPB	16-MAR-2008 22:46	S8668 (5000X), S8400 (5000X), S8549 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	1.2727m	0.7162m	1.1869m	1.3225m	1.1619m	1.1124m			QUAD	1.91234	0.57866	0.004337	1.1288	0.999	15	0.05	0.99	
Chloromethane		0.5505m	0.7976m	0.8328m	0.7792m	0.7859m	0.7291m	0.8161m	AVRG		1.32298		0.7559	13	15	0.10	0.99	
Vinyl Chloride	0.8604m	0.4672m	0.8362m	0.8694m	0.8310m	0.8011m			LINR	0.28169	1.21662		0.7775	0.997	15	0.05	0.99	
Bromomethane	0.2512m	0.1625m	0.3695m	0.3969m	0.4269m	0.4082m	0.4404m	0.5279m	QUAD	0.82676	2.74463	-0.01624	0.3729	0.998	15	0.05	0.99	
Chloroethane	0.4483m	0.2370m	0.3877m	0.3827m	0.3783m	0.3771m			QUAD	0.79798	2.43893	0.008096	0.3685	0.999	15	0.05	0.99	
Trichlorofluoromethane	1.1722	0.6551m	1.1297m	1.1988m	1.0295	0.9826	0.9300m		QUAD	1.84327	0.61986	0.006164	1.0140	0.999	15	0.05	0.99	
Acetone		0.2313	0.2184	0.2119	0.1882	0.2101	0.1899	0.1938	AVRG		4.84914		0.2062	8	15	0.05	0.99	
Freon 113		0.5988m	0.4996	0.6031	0.5800	0.6015	0.5490	0.6382	AVRG		1.71979		0.5815	8	15	0.05	0.99	
1,1-Dichloroethene		0.4519	0.4204	0.4527	0.4333	0.4667	0.4067	0.4614	AVRG		2.26300		0.4419	5	15	0.05	0.99	
Methylene Chloride		0.6586	0.6273	0.6038	0.6021	0.5982	0.5910	0.6029	AVRG		1.63402		0.6120	4	15	0.05	0.99	
Carbon Disulfide		1.9151	1.8517	1.9768	1.8000	1.9769	1.7835	2.0256	AVRG		0.52515		1.9042	5	15	0.05	0.99	
MTBE		1.5738	1.5887	1.7420	1.5592	1.7457m	1.6383	1.7539	AVRG		0.60337		1.6574	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5642	0.5405	0.5669	0.4840	0.5417	0.5380	0.5859	AVRG		1.83194		0.5459	6	15	0.05	0.99	
Vinyl Acetate		1.5948	1.7788	1.7469	1.7408	1.8315	1.6658	1.7968	AVRG		0.57588		1.7365	5	15	0.05	0.99	
1,1-Dichloroethane		1.2253	1.2515	1.2437	1.1879	1.2101	1.1834	1.2290	AVRG		0.82055		1.2187	2	15	0.10	0.99	
2-Butanone		0.3987	0.4096	0.4037	0.3923	0.4269	0.3959	0.3866	AVRG		2.48779		0.4020	3	15	0.05	0.99	
2,2-Dichloropropane	0.9262	0.9175	0.8518	0.9145	0.8393	0.8433	0.8172	0.8702	AVRG		1.14611		0.8725	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6071	0.6142	0.6170	0.5979	0.6131	0.6177	0.6248	AVRG		1.63101		0.6131	1	15	0.05	0.99	
Chloroform		1.2510	1.2251	1.2643	1.1910	1.2180	1.1670	1.2366	AVRG		0.81841		1.2219	3	15	0.05	0.99	
Bromochloromethane		0.2773	0.2909	0.3040	0.3064	0.3246	0.3072	0.3309	AVRG		3.26903		0.3059	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.8456	0.8041	0.8435	0.7961	0.8192	0.7618	0.8451	AVRG		1.22477		0.8165	4	15	0.05	0.99	
1,1-Dichloropropene		0.5871	0.5353	0.6049	0.5917	0.5984	0.5621	0.6334	AVRG		1.70194		0.5876	5	15	0.05	0.99	
Carbon Tetrachloride		0.4681	0.4295	0.4999	0.4706	0.4791	0.4552	0.5101	AVRG		2.11316		0.4732	6	15	0.05	0.99	
1,2-Dichloroethane		0.5356	0.5798	0.5861	0.5597	0.5807	0.5741	0.5633	AVRG		1.75913		0.5685	3	15	0.05	0.99	
Benzene		1.5860	1.6452	1.7111	1.5999	1.6624	1.5888	1.6048	AVRG		0.61413		1.6283	3	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.3586	0.3624	0.4150	0.3810	0.4011	0.3762	0.4121	AVRG		2.58655		0.3866	6	15	0.05	0.99	
1,2-Dichloropropane		0.4653	0.4679	0.5043	0.4878	0.4985	0.4855	0.5021	AVRG		2.05207		0.4873	3	15	0.05	0.99	
Bromodichloromethane		0.5650	0.6029	0.6132	0.5985	0.6368	0.6099	0.6160	AVRG		1.64997		0.6061	4	15	0.05	0.99	
Dibromomethane		0.2626	0.2784	0.2969	0.2961	0.3098	0.3038	0.3088	AVRG		3.40419		0.2938	6	15	0.05	0.99	
4-Methyl-2-Pentanone		0.4666	0.4961	0.5512	0.5567	0.6144	0.5566	0.5642	AVRG		1.83921		0.5437	9	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6748	0.6691	0.7305	0.7098	0.7625	0.7209	0.7027	AVRG		1.40839		0.7100	5	15	0.05	0.99	
Toluene		0.7920	0.8034	0.8941	0.8302	0.8522	0.8356	0.8369	AVRG		1.19775		0.8349	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5970	0.5988	0.6674	0.6455	0.6805	0.6506	0.6383	AVRG		1.56315		0.6397	5	15	0.05	0.99	
1,1,2-Trichloroethane		0.1915	0.2045	0.2230	0.2160	0.2251	0.2188	0.2166	AVRG		4.68062		0.2136	6	15	0.05	0.99	
2-Hexanone		0.3840	0.4166	0.4718	0.4333	0.4914	0.4440	0.4735	AVRG		2.24756		0.4449	8	15	0.05	0.99	
1,3-Dichloropropane		0.6954	0.7295	0.7854	0.7286	0.7884	0.7651	0.7827	AVRG		1.32704		0.7536	5	15	0.05	0.99	
Tetrachloroethene		0.4286	0.3835	0.4375	0.3907	0.4334	0.4164	0.4681	AVRG		2.36639		0.4226	7	15	0.05	0.99	
Dibromochloromethane		0.4463	0.4564	0.4835	0.4792	0.5082	0.4976	0.5140	AVRG		2.06780		0.4836	5	15	0.05	0.99	
1,2-Dibromoethane		0.3028	0.3223	0.3485	0.3452	0.3825	0.3627	0.3594	AVRG		2.88847		0.3462	8	15	0.05	0.99	
Chlorobenzene		0.9558	0.9378	1.0152	0.9527	0.9576	0.9749	1.0149	AVRG		1.02807		0.9727	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3682	0.3929	0.4126	0.3789	0.4138	0.4145	0.4323	AVRG		2.48831		0.4019	6	15	0.05	0.99	
Ethylbenzene		1.8311	1.7544	1.8595	1.7468	1.8619	1.7695	1.8970	AVRG		0.55031		1.8172	3	15	0.05	0.99	
m,p-Xylenes	0.5948	0.5456	0.5703	0.5953	0.5549	0.6073	0.5892	0.6345	AVRG		1.70501		0.5865	5	15	0.05	0.99	
o-Xylene		0.5361	0.5852	0.6133	0.5958	0.6221	0.6158	0.6151	AVRG		1.67328		0.5976	5	15	0.05	0.99	
Styrene		0.9295	0.9975	1.0861	1.0295	1.0847	1.0707	1.1142	AVRG		0.95731		1.0446	6	15	0.05	0.99	
Bromoform		0.3181	0.3234	0.3634	0.3570	0.3750	0.3795	0.3891	AVRG		2.79382		0.3579	8	15	0.10	0.99	
Isopropylbenzene		2.6228	2.5299	2.7699	2.5123	2.7939	2.6557	2.8386	AVRG		0.37387		2.6747	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9906	1.0825	1.1095	1.0149	1.1359	1.0705	1.0874	AVRG		0.93442		1.0702	5	15	0.30	0.99	
1,2,3-Trichloropropane		0.7900m	0.8284m	0.8488	0.7615m	0.8495	0.8239	0.8159	AVRG		1.22423		0.8168	4	15	0.05	0.99	
Propylbenzene		3.5427	3.3422	3.5901	3.4692	3.7087	3.4907	3.6336	AVRG		0.28252		3.5396	3	15	0.05	0.99	
Bromobenzene		0.8092	0.8207	0.8459	0.8402	0.9053	0.8810	0.8886	AVRG		1.16847		0.8558	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		1.9268	2.0064	2.0989	2.0582	2.1422	2.1258	2.1759	AVRG		0.48162		2.0763	4	15	0.05	0.99	
2-Chlorotoluene		2.2390	2.3026	2.4061	2.3056	2.3293	2.3346	2.3675	AVRG		0.42985		2.3264	2	15	0.05	0.99	
4-Chlorotoluene		2.0470	2.0358	2.1924	2.0270	2.1836	2.0589	2.0944	AVRG		0.47817		2.0913	3	15	0.05	0.99	
tert-Butylbenzene		1.6700	1.6700	1.8246	1.7267	1.8213	1.7824	1.9381	AVRG		0.56301		1.7762	5	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.6722	1.7474	2.0390	1.9566	2.0567	2.0713	2.1369	AVRG		0.51169		1.9543	9	15	0.05	0.99	
sec-Butylbenzene		2.7505	2.6431	2.9494	2.7717	2.8930	2.6834	3.0339	AVRG		0.35488		2.8179	5	15	0.05	0.99	
para-Isopropyl Toluene		1.9230	1.9981	2.1022	2.1055	2.1975	2.1117	2.2842	AVRG		0.47547		2.1032	6	15	0.05	0.99	
1,3-Dichlorobenzene		1.3423	1.3696	1.4246	1.4222	1.4598	1.4239	1.5379	AVRG		0.70137		1.4258	4	15	0.05	0.99	
1,4-Dichlorobenzene		1.3830	1.3995	1.5122	1.4456	1.5321	1.4914	1.5503	AVRG		0.67868		1.4734	4	15	0.05	0.99	
n-Butylbenzene		1.8220	1.8055	2.0882	2.1157	2.3088	2.2043	2.3966	AVRG		0.47486		2.1059	11	15	0.05	0.99	
1,2-Dichlorobenzene		1.2724	1.3653	1.4239	1.3718	1.4591	1.4061	1.4808	AVRG		0.71579		1.3971	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1537	0.1698	0.1853	0.1729	0.1922	0.1773	0.1842	AVRG		5.66585		0.1765	7	15	0.05	0.99	
1,2,4-Trichlorobenzene	0.5264	0.5672	0.5665	0.6607	0.7240	0.8335			QUAD	0.05045	1.74232	-0.01071	0.6464	0.999	15	0.05	0.99	
Hexachlorobutadiene		0.5578	0.5123	0.5462	0.5467	0.5904	0.5969	0.6622	AVRG		1.74452		0.5732	8	15	0.05	0.99	
Naphthalene	0.7219	0.8332	0.9070	1.2389	1.3336	1.5852			QUAD	0.92840	0.92510	-0.00314	1.1033	0.998	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene	0.5176	0.5472	0.5916	0.6876	0.7544	0.8473			QUAD	0.39405	1.61962	-0.00865	0.6576	0.999	15	0.05	0.99	
Dibromofluoromethane					0.6048				AVRG		1.65334		0.6048	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.4605				AVRG		2.17144		0.4605	0	15	0.05	0.99	
Trifluorotoluene	0.5511	0.4779	0.4569	0.5769	0.5385	0.5656	0.5350	0.6221	AVRG		1.85017		0.5405	10	15	0.05	0.99	
Toluene-d8					1.0968				AVRG		0.91177		1.0968	0	15	0.05	0.99	
Bromofluorobenzene					0.9595				AVRG		1.04216		0.9595	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12	2.500	52	5.000	-19	10.00	-6	20.00	1	50.00	0	60.00	0				
Chloromethane			5.000	-27	10.00	6	20.00	10	50.00	3	60.00	4	75.00	-4	100.0	8
Vinyl Chloride	2.500	16	5.000	-38	10.00	5	20.00	7	50.00	2	60.00	-2				
Bromomethane	2.500	2	5.000	-39	10.00	7	20.00	8	50.00	4	60.00	-3	75.00	-2	100.0	0
Chloroethane	2.500	42	5.000	-26	10.00	4	20.00	0	50.00	0	60.00	0				
Trichlorofluoromethane	2.500	49	5.000	-21	10.00	-4	20.00	1	50.00	0	60.00	0	75.00	0		
Acetone			5.000	12	10.00	6	20.00	3	50.00	-9	60.00	2	75.00	-8	100.0	-6
Freon 113			5.000	3	10.00	-14	20.00	4	50.00	0	60.00	3	75.00	-6	100.0	10
1,1-Dichloroethene			5.000	2	10.00	-5	20.00	2	50.00	-2	60.00	6	75.00	-8	100.0	4
Methylene Chloride			5.000	8	10.00	3	20.00	-1	50.00	-2	60.00	-2	75.00	-3	100.0	-1
Carbon Disulfide			5.000	1	10.00	-3	20.00	4	50.00	-5	60.00	4	75.00	-6	100.0	6
MTBE			5.000	-5	10.00	-4	20.00	5	50.00	-6	60.00	5	75.00	-1	100.0	6
trans-1,2-Dichloroethene			5.000	3	10.00	-1	20.00	4	50.00	-11	60.00	-1	75.00	-1	100.0	7
Vinyl Acetate			5.000	-8	10.00	2	20.00	1	50.00	0	60.00	5	75.00	-4	100.0	3
1,1-Dichloroethane			5.000	1	10.00	3	20.00	2	50.00	-3	60.00	-1	75.00	-3	100.0	1
2-Butanone			5.000	-1	10.00	2	20.00	0	50.00	-2	60.00	6	75.00	-2	100.0	-4
2,2-Dichloropropane	2.500	6	5.000	5	10.00	-2	20.00	5	50.00	-4	60.00	-3	75.00	-6	100.0	0
cis-1,2-Dichloroethene			5.000	-1	10.00	0	20.00	1	50.00	-2	60.00	0	75.00	1	100.0	2
Chloroform			5.000	2	10.00	0	20.00	3	50.00	-3	60.00	0	75.00	-4	100.0	1
Bromochloromethane			5.000	-9	10.00	-5	20.00	-1	50.00	0	60.00	6	75.00	0	100.0	8
1,1,1-Trichloroethane			5.000	4	10.00	-2	20.00	3	50.00	-2	60.00	0	75.00	-7	100.0	4
1,1-Dichloropropene			5.000	0	10.00	-9	20.00	3	50.00	1	60.00	2	75.00	-4	100.0	8
Carbon Tetrachloride			5.000	-1	10.00	-9	20.00	6	50.00	-1	60.00	1	75.00	-4	100.0	8
1,2-Dichloroethane			5.000	-6	10.00	2	20.00	3	50.00	-2	60.00	2	75.00	1	100.0	-1
Benzene			5.000	-3	10.00	1	20.00	5	50.00	-2	60.00	2	75.00	-2	100.0	-1
Trichloroethene			5.000	-7	10.00	-6	20.00	7	50.00	-1	60.00	4	75.00	-3	100.0	7
1,2-Dichloropropane			5.000	-5	10.00	-4	20.00	3	50.00	0	60.00	2	75.00	0	100.0	3
Bromodichloromethane			5.000	-7	10.00	-1	20.00	1	50.00	-1	60.00	5	75.00	1	100.0	2
Dibromomethane			5.000	-11	10.00	-5	20.00	1	50.00	1	60.00	5	75.00	3	100.0	5
4-Methyl-2-Pentanone			5.000	-14	10.00	-9	20.00	1	50.00	2	60.00	13	75.00	2	100.0	4
cis-1,3-Dichloropropene			5.000	-5	10.00	-6	20.00	3	50.00	0	60.00	7	75.00	2	100.0	-1
Toluene			5.000	-5	10.00	-4	20.00	7	50.00	-1	60.00	2	75.00	0	100.0	0
trans-1,3-Dichloropropene			5.000	-7	10.00	-6	20.00	4	50.00	1	60.00	6	75.00	2	100.0	0
1,1,2-Trichloroethane			5.000	-10	10.00	-4	20.00	4	50.00	1	60.00	5	75.00	2	100.0	1
2-Hexanone			5.000	-14	10.00	-6	20.00	6	50.00	-3	60.00	10	75.00	0	100.0	6
1,3-Dichloropropane			5.000	-8	10.00	-3	20.00	4	50.00	-3	60.00	5	75.00	2	100.0	4
Tetrachloroethene			5.000	1	10.00	-9	20.00	4	50.00	-8	60.00	3	75.00	-1	100.0	11
Dibromochloromethane			5.000	-8	10.00	-6	20.00	0	50.00	-1	60.00	5	75.00	3	100.0	6
1,2-Dibromoethane			5.000	-13	10.00	-7	20.00	1	50.00	0	60.00	10	75.00	5	100.0	4
Chlorobenzene			5.000	-2	10.00	-4	20.00	4	50.00	-2	60.00	-2	75.00	0	100.0	4
1,1,1,2-Tetrachloroethane			5.000	-8	10.00	-2	20.00	3	50.00	-6	60.00	3	75.00	3	100.0	8
Ethylbenzene			5.000	1	10.00	-3	20.00	2	50.00	-4	60.00	2	75.00	-3	100.0	4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	1	10.00	-7	20.00	-3	40.00	2	100.0	-5	120.0	4	150.0	0	200.0	8
o-Xylene			5.000	-10	10.00	-2	20.00	3	50.00	0	60.00	4	75.00	3	100.0	3
Styrene			5.000	-11	10.00	-5	20.00	4	50.00	-1	60.00	4	75.00	3	100.0	7
Bromoform			5.000	-11	10.00	-10	20.00	2	50.00	0	60.00	5	75.00	6	100.0	9
Isopropylbenzene			5.000	-2	10.00	-5	20.00	4	50.00	-6	60.00	4	75.00	-1	100.0	6
1,1,2,2-Tetrachloroethane			5.000	-7	10.00	1	20.00	4	50.00	-5	60.00	6	75.00	0	100.0	2
1,2,3-Trichloropropane			5.000	-3	10.00	1	20.00	4	50.00	-7	60.00	4	75.00	1	100.0	0
Propylbenzene			5.000	0	10.00	-6	20.00	1	50.00	-2	60.00	5	75.00	-1	100.0	3
Bromobenzene			5.000	-5	10.00	-4	20.00	-1	50.00	-2	60.00	6	75.00	3	100.0	4
1,3,5-Trimethylbenzene			5.000	-7	10.00	-3	20.00	1	50.00	-1	60.00	3	75.00	2	100.0	5
2-Chlorotoluene			5.000	-4	10.00	-1	20.00	3	50.00	-1	60.00	0	75.00	0	100.0	2
4-Chlorotoluene			5.000	-2	10.00	-3	20.00	5	50.00	-3	60.00	4	75.00	-2	100.0	0
tert-Butylbenzene			5.000	-6	10.00	-6	20.00	3	50.00	-3	60.00	3	75.00	0	100.0	9
1,2,4-Trimethylbenzene			5.000	-14	10.00	-11	20.00	4	50.00	0	60.00	5	75.00	6	100.0	9
sec-Butylbenzene			5.000	-2	10.00	-6	20.00	5	50.00	-2	60.00	3	75.00	-5	100.0	8
para-Isopropyl Toluene			5.000	-9	10.00	-5	20.00	0	50.00	0	60.00	4	75.00	0	100.0	9
1,3-Dichlorobenzene			5.000	-6	10.00	-4	20.00	0	50.00	0	60.00	2	75.00	0	100.0	8
1,4-Dichlorobenzene			5.000	-6	10.00	-5	20.00	3	50.00	-2	60.00	4	75.00	1	100.0	5
n-Butylbenzene			5.000	-13	10.00	-14	20.00	-1	50.00	0	60.00	10	75.00	5	100.0	14
1,2-Dichlorobenzene			5.000	-9	10.00	-2	20.00	2	50.00	-2	60.00	4	75.00	1	100.0	6
1,2-Dibromo-3-Chloropropane			5.000	-13	10.00	-4	20.00	5	50.00	-2	60.00	9	75.00	0	100.0	4
1,2,4-Trichlorobenzene	2.500	-7	5.000	-2	10.00	-4	20.00	6	50.00	-2	60.00	1				
Hexachlorobutadiene			5.000	-3	10.00	-11	20.00	-5	50.00	-5	60.00	3	75.00	4	100.0	16
Naphthalene	2.500	4	5.000	-5	10.00	-9	20.00	10	50.00	-3	60.00	1				
1,2,3-Trichlorobenzene	2.500	-1	5.000	-5	10.00	-3	20.00	5	50.00	-2	60.00	1				
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene	2.500	2	5.000	-12	10.00	-15	20.00	7	50.00	0	60.00	5	75.00	-1	100.0	15
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 03/17/08 Reviewer: LW Date: 03/18/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Name : 826GOX5S
Calnum : 448110396001 Cal Date : 16-MAR-2008 Type : SOIL

ICV 448110396016 (ecg16 16-MAR-2008) stds: S8648 (10000X), S8538 (10000X), S8549 (5000X)
ICV 448111347004 (ech04 17-MAR-2008) stds: S8534 (10000X), S8549 (5000X)

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	448111347004	17-MAR-2008	1.1288	0.6937	25.00	13.25	ug/L	**-47**	20	v- *** m
Chloromethane	448111347004	17-MAR-2008	0.7559	0.7405	25.00	24.49	ug/L	-2	20	m
Vinyl Chloride	448111347004	17-MAR-2008	0.7775	0.7110	25.00	21.91	ug/L	-12	20	m
Bromomethane	448111347004	17-MAR-2008	0.3729	0.3580	25.00	24.09	ug/L	-4	20	m
Chloroethane	448111347004	17-MAR-2008	0.3685	0.3397	25.00	22.10	ug/L	-12	20	m
Trichlorofluoromethane	448111347004	17-MAR-2008	1.0140	0.9405	25.00	19.82	ug/L	**-21**	20	v- *** m
Acetone	448110396016	16-MAR-2008	0.2062	0.2113	25.00	25.62	ug/L	2	30	
Freon 113	448110396016	16-MAR-2008	0.5815	0.5877	25.00	25.27	ug/L	1	20	
1,1-Dichloroethene	448110396016	16-MAR-2008	0.4419	0.4979	25.00	28.17	ug/L	13	20	
Methylene Chloride	448110396016	16-MAR-2008	0.6120	0.6639	25.00	27.12	ug/L	8	20	
Carbon Disulfide	448110396016	16-MAR-2008	1.9042	1.8458	25.00	24.23	ug/L	-3	20	
MTBE	448110396016	16-MAR-2008	1.6574	1.7273	25.00	26.05	ug/L	4	20	
trans-1,2-Dichloroethene	448110396016	16-MAR-2008	0.5459	0.5975	25.00	27.37	ug/L	9	20	
Vinyl Acetate	448110396016	16-MAR-2008	1.7365	1.4632	25.00	21.07	ug/L	-16	30	
1,1-Dichloroethane	448110396016	16-MAR-2008	1.2187	1.3367	25.00	27.42	ug/L	10	20	
2-Butanone	448110396016	16-MAR-2008	0.4020	0.3979	25.00	24.75	ug/L	-1	30	
2,2-Dichloropropane	448110396016	16-MAR-2008	0.8725	0.7890	25.00	22.61	ug/L	-10	20	
cis-1,2-Dichloroethene	448110396016	16-MAR-2008	0.6131	0.6946	25.00	28.32	ug/L	13	20	
Chloroform	448110396016	16-MAR-2008	1.2219	1.2941	25.00	26.48	ug/L	6	20	
Bromochloromethane	448110396016	16-MAR-2008	0.3059	0.3278	25.00	26.79	ug/L	7	20	
1,1,1-Trichloroethane	448110396016	16-MAR-2008	0.8165	0.8544	25.00	26.16	ug/L	5	20	
1,1-Dichloropropene	448110396016	16-MAR-2008	0.5876	0.6785	25.00	28.87	ug/L	15	20	
Carbon Tetrachloride	448110396016	16-MAR-2008	0.4732	0.5440	25.00	28.74	ug/L	15	20	
1,2-Dichloroethane	448110396016	16-MAR-2008	0.5685	0.6220	25.00	27.35	ug/L	9	20	
Benzene	448110396016	16-MAR-2008	1.6283	1.9272	25.00	29.59	ug/L	18	20	
Trichloroethene	448110396016	16-MAR-2008	0.3866	0.4607	25.00	29.79	ug/L	19	20	
1,2-Dichloropropane	448110396016	16-MAR-2008	0.4873	0.5232	25.00	26.84	ug/L	7	20	
Bromodichloromethane	448110396016	16-MAR-2008	0.6061	0.6835	25.00	28.19	ug/L	13	20	
Dibromomethane	448110396016	16-MAR-2008	0.2938	0.3203	25.00	27.26	ug/L	9	20	
4-Methyl-2-Pentanone	448110396016	16-MAR-2008	0.5437	0.5634	25.00	25.91	ug/L	4	30	
cis-1,3-Dichloropropene	448110396016	16-MAR-2008	0.7100	0.7379	25.00	25.98	ug/L	4	20	
Toluene	448110396016	16-MAR-2008	0.8349	0.9359	25.00	28.03	ug/L	12	20	
trans-1,3-Dichloropropene	448110396016	16-MAR-2008	0.6397	0.5808	25.00	22.70	ug/L	-9	20	
1,1,2-Trichloroethane	448110396016	16-MAR-2008	0.2136	0.2280	25.00	26.68	ug/L	7	20	
2-Hexanone	448110396016	16-MAR-2008	0.4449	0.4582	25.00	25.75	ug/L	3	30	
1,3-Dichloropropane	448110396016	16-MAR-2008	0.7536	0.8245	25.00	27.35	ug/L	9	20	
Tetrachloroethene	448110396016	16-MAR-2008	0.4226	0.4781	25.00	28.28	ug/L	13	20	
Dibromochloromethane	448110396016	16-MAR-2008	0.4836	0.5305	25.00	27.43	ug/L	10	20	
1,2-Dibromoethane	448110396016	16-MAR-2008	0.3462	0.3799	25.00	27.43	ug/L	10	20	
Chlorobenzene	448110396016	16-MAR-2008	0.9727	1.0629	25.00	27.32	ug/L	9	20	
1,1,1,2-Tetrachloroethane	448110396016	16-MAR-2008	0.4019	0.4331	25.00	26.94	ug/L	8	20	
Ethylbenzene	448110396016	16-MAR-2008	1.8172	1.9603	25.00	26.97	ug/L	8	20	
m,p-Xylenes	448110396016	16-MAR-2008	0.5865	0.6223	50.00	53.05	ug/L	6	20	
o-Xylene	448110396016	16-MAR-2008	0.5976	0.6495	25.00	27.17	ug/L	9	20	
Styrene	448110396016	16-MAR-2008	1.0446	1.1691	25.00	27.98	ug/L	12	20	
Bromoform	448110396016	16-MAR-2008	0.3579	0.3774	25.00	26.36	ug/L	5	20	
Isopropylbenzene	448110396016	16-MAR-2008	2.6747	2.6455	25.00	24.73	ug/L	-1	20	

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	448110396016	16-MAR-2008	1.0702	1.1256	25.00	26.29	ug/L	5	20	
1,2,3-Trichloropropane	448110396016	16-MAR-2008	0.8168	0.9112	25.00	27.89	ug/L	12	20	m
Propylbenzene	448110396016	16-MAR-2008	3.5396	3.8456	25.00	27.16	ug/L	9	20	
Bromobenzene	448110396016	16-MAR-2008	0.8558	0.9254	25.00	27.03	ug/L	8	20	
1,3,5-Trimethylbenzene	448110396016	16-MAR-2008	2.0763	2.3227	25.00	27.97	ug/L	12	20	
2-Chlorotoluene	448110396016	16-MAR-2008	2.3264	2.5845	25.00	27.77	ug/L	11	20	
4-Chlorotoluene	448110396016	16-MAR-2008	2.0913	2.2112	25.00	26.43	ug/L	6	20	
tert-Butylbenzene	448110396016	16-MAR-2008	1.7762	1.9100	25.00	26.88	ug/L	8	20	
1,2,4-Trimethylbenzene	448110396016	16-MAR-2008	1.9543	2.1870	25.00	27.98	ug/L	12	20	
sec-Butylbenzene	448110396016	16-MAR-2008	2.8179	3.2600	25.00	28.92	ug/L	16	20	
para-Isopropyl Toluene	448110396016	16-MAR-2008	2.1032	2.2562	25.00	26.82	ug/L	7	20	
1,3-Dichlorobenzene	448110396016	16-MAR-2008	1.4258	1.4312	25.00	25.10	ug/L	0	20	
1,4-Dichlorobenzene	448110396016	16-MAR-2008	1.4734	1.4899	25.00	25.28	ug/L	1	20	
n-Butylbenzene	448110396016	16-MAR-2008	2.1059	2.3491	25.00	27.89	ug/L	12	20	
1,2-Dichlorobenzene	448110396016	16-MAR-2008	1.3971	1.4489	25.00	25.93	ug/L	4	20	
1,2-Dibromo-3-Chloropropane	448110396016	16-MAR-2008	0.1765	0.1798	25.00	25.47	ug/L	2	20	
1,2,4-Trichlorobenzene	448110396016	16-MAR-2008	0.6464	0.6723	25.00	26.31	ug/L	5	20	
Hexachlorobutadiene	448110396016	16-MAR-2008	0.5732	0.6110	25.00	26.65	ug/L	7	20	
Naphthalene	448110396016	16-MAR-2008	1.1033	1.3591	25.00	28.74	ug/L	15	20	
1,2,3-Trichlorobenzene	448110396016	16-MAR-2008	0.6576	0.7154	25.00	26.60	ug/L	6	20	

-=low bias m=manual integration v=ICV

448110396001 ICVs

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Run Name : 25PPB IDF : 1.0
Seqnum : 438117134004.1 File : dcl04 Time : 21-MAR-2008 09:12
Cal : 438107113004 Caldate : 14-MAR-2008 Caltype : SOIL
Standards: S8668 (20000X), S8400 (20000X), S8549 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	1.2319	0.9546	25.00	18.61	ug/L	**-26**	20	0.0500	c- m ***
Chloromethane	1.0159	1.0083	25.00	23.83	ug/L	-5	20	0.1000	m
Vinyl Chloride	0.9683	0.9142	25.00	23.60	ug/L	-6	20	0.0500	m
Bromomethane	0.6677	0.6975	25.00	24.93	ug/L	0	20	0.0500	
Chloroethane	0.5090	0.5586	25.00	27.44	ug/L	10	20	0.0500	
Trichlorofluoromethane	1.0904	1.0395	25.00	22.97	ug/L	-8	20	0.0500	
Acetone	0.3606	0.3883	25.00	26.92	ug/L	8	30	0.0500	
Freon 113	0.7342	0.6626	25.00	22.56	ug/L	-10	20	0.0500	
1,1-Dichloroethene	0.6241	0.6284	25.00	25.18	ug/L	1	20	0.0500	
Methylene Chloride	0.7689	0.9561	25.00	31.09	ug/L	**24**	20	0.0500	c+ ***
Carbon Disulfide	2.2488	2.5098	25.00	27.90	ug/L	12	20	0.0500	
MTBE	1.9000	2.0339	25.00	26.76	ug/L	7	20	0.0500	
trans-1,2-Dichloroethene	0.6348	0.6683	25.00	26.32	ug/L	5	20	0.0500	
Vinyl Acetate	1.6066	1.6135	25.00	25.11	ug/L	0	30	0.0500	
1,1-Dichloroethane	1.2483	1.3311	25.00	26.66	ug/L	7	20	0.1000	
2-Butanone	0.4336	0.4922	25.00	28.38	ug/L	14	30	0.0500	
2,2-Dichloropropane	0.9777	1.0012	25.00	25.60	ug/L	2	20	0.0500	
cis-1,2-Dichloroethene	0.6907	0.7550	25.00	27.33	ug/L	9	20	0.0500	
Chloroform	1.2559	1.3493	25.00	26.86	ug/L	7	20	0.0500	
Bromochloromethane	0.3922	0.4514	25.00	28.77	ug/L	15	20	0.0500	
1,1,1-Trichloroethane	0.9676	0.9266	25.00	23.94	ug/L	-4	20	0.0500	
1,1-Dichloropropene	0.5938	0.5347	25.00	22.51	ug/L	-10	20	0.0500	
Carbon Tetrachloride	0.4877	0.4957	25.00	25.41	ug/L	2	20	0.0500	
1,2-Dichloroethane	0.6696	0.7108	25.00	26.54	ug/L	6	20	0.0500	
Benzene	1.5750	1.6058	25.00	25.49	ug/L	2	20	0.0500	
Trichloroethene	0.4412	0.4299	25.00	24.36	ug/L	-3	20	0.0500	
1,2-Dichloropropane	0.4601	0.4665	25.00	25.35	ug/L	1	20	0.0500	
Bromodichloromethane	0.6530	0.6867	25.00	26.29	ug/L	5	20	0.0500	
Dibromomethane	0.3359	0.3653	25.00	27.19	ug/L	9	20	0.0500	
4-Methyl-2-Pentanone	0.6135	0.5905	25.00	24.06	ug/L	-4	30	0.0500	
cis-1,3-Dichloropropene	0.6791	0.7009	25.00	25.80	ug/L	3	20	0.0500	
Toluene	0.9316	0.9552	25.00	25.63	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.6553	0.6825	25.00	26.04	ug/L	4	20	0.0500	
1,1,2-Trichloroethane	0.2131	0.2184	25.00	25.62	ug/L	2	20	0.0500	
2-Hexanone	0.5192	0.5191	25.00	25.00	ug/L	0	30	0.0500	
1,3-Dichloropropane	0.7753	0.7786	25.00	25.11	ug/L	0	20	0.0500	
Tetrachloroethene	0.5197	0.4486	25.00	21.58	ug/L	-14	20	0.0500	
Dibromochloromethane	0.5675	0.5819	25.00	25.63	ug/L	3	20	0.0500	
1,2-Dibromoethane	0.4143	0.4429	25.00	26.72	ug/L	7	20	0.0500	
Chlorobenzene	1.1252	1.1685	25.00	25.96	ug/L	4	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4277	0.4407	25.00	25.76	ug/L	3	20	0.0500	
Ethylbenzene	1.9779	1.9339	25.00	24.44	ug/L	-2	20	0.0500	
m,p-Xylenes	0.7326	0.7131	50.00	48.67	ug/L	-3	20	0.0500	
o-Xylene	0.7482	0.7598	25.00	25.39	ug/L	2	20	0.0500	
Styrene	1.2797	1.3080	25.00	25.55	ug/L	2	20	0.0500	
Bromoform	0.4052	0.3979	25.00	24.55	ug/L	-2	20	0.1000	
Isopropylbenzene	3.4725	3.1850	25.00	22.93	ug/L	-8	20	0.0500	
1,1,2,2-Tetrachloroethane	1.1540	1.1490	25.00	24.89	ug/L	0	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9927	0.9794	25.00	24.67	ug/L	-1	20	0.0500	
Propylbenzene	4.2706	3.9351	25.00	23.04	ug/L	-8	20	0.0500	
Bromobenzene	1.0112	1.0154	25.00	25.10	ug/L	0	20	0.0500	
1,3,5-Trimethylbenzene	2.8011	2.6844	25.00	23.96	ug/L	-4	20	0.0500	
2-Chlorotoluene	2.8775	2.8427	25.00	24.70	ug/L	-1	20	0.0500	
4-Chlorotoluene	2.7177	2.6897	25.00	24.74	ug/L	-1	20	0.0500	
tert-Butylbenzene	2.4884	2.2996	25.00	23.10	ug/L	-8	20	0.0500	
1,2,4-Trimethylbenzene	2.8614	2.8543	25.00	24.94	ug/L	0	20	0.0500	
sec-Butylbenzene	3.7700	3.3247	25.00	22.05	ug/L	-12	20	0.0500	
para-Isopropyl Toluene	3.1521	2.9136	25.00	23.11	ug/L	-8	20	0.0500	
1,3-Dichlorobenzene	1.8426	1.8694	25.00	25.36	ug/L	1	20	0.0500	
1,4-Dichlorobenzene	1.8368	1.8798	25.00	25.58	ug/L	2	20	0.0500	
n-Butylbenzene	3.2559	2.8678	25.00	22.02	ug/L	-12	20	0.0500	
1,2-Dichlorobenzene	1.7591	1.8211	25.00	25.88	ug/L	4	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2741	0.2624	25.00	23.93	ug/L	-4	20	0.0500	
1,2,4-Trichlorobenzene	1.2843	1.3161	25.00	25.62	ug/L	2	20	0.0500	
Hexachlorobutadiene	0.7459	0.5371	25.00	18.00	ug/L	**-28**	20	0.0500	c- ***
Naphthalene	2.9513	3.0013	25.00	25.42	ug/L	2	20	0.0500	
1,2,3-Trichlorobenzene	1.1880	1.1903	25.00	25.05	ug/L	0	20	0.0500	
Dibromofluoromethane	0.5691	0.6090	50.00	53.50	ug/L	7	20	0.0500	
1,2-Dichloroethane-d4	0.4420	0.4536	50.00	51.31	ug/L	3	20	0.0500	
Trifluorotoluene	0.6884	0.6187	25.00	22.47	ug/L	-10	20	0.0500	
Toluene-d8	1.0396	1.0371	50.00	49.88	ug/L	0	20	0.0500	
Bromofluorobenzene	0.9399	0.9150	50.00	48.67	ug/L	-3	20	0.0500	

ISTD (ICAL dce12)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	402255	481804	19.78	10.00	9.98	-0.02
1,4-Difluorobenzene	600047	733431	22.23	11.12	11.09	-0.03
Chlorobenzene-d5	504409	658283	30.51	15.22	15.20	-0.02
1,4-Dichlorobenzene-d4	272365	368675	35.36	17.95	17.93	-0.02

Analyst: MJD Date: 03/21/08 Reviewer: EAH Date: 03/24/08

+=high bias -=low bias c=CCV m=manual integration

438117134004.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Run Name : 20PPB IDF : 1.0
Seqnum : 448115696003.1 File : eck03 Time : 20-MAR-2008 09:00
Cal : 448110396001 Caldate : 16-MAR-2008 Caltype : SOIL
Standards: S8668 (25000X), S8400 (25000X), S8549 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	1.1288	1.0958	20.00	16.68	ug/L	-17	20	0.0500	m
Chloromethane	0.7559	0.7617	20.00	20.15	ug/L	1	20	0.1000	m
Vinyl Chloride	0.7775	0.8128	20.00	20.06	ug/L	0	20	0.0500	m
Bromomethane	0.3729	0.4493	20.00	24.18	ug/L	**21**	20	0.0500	c+ m ***
Chloroethane	0.3685	0.3473	20.00	18.13	ug/L	-9	20	0.0500	m
Trichlorofluoromethane	1.0140	0.9921	20.00	16.57	ug/L	-17	20	0.0500	m
Acetone	0.2062	0.2474	20.00	23.99	ug/L	20	30	0.0500	
Freon 113	0.5815	0.4452	20.00	15.31	ug/L	**-23**	20	0.0500	c- ***
1,1-Dichloroethene	0.4419	0.4064	20.00	18.39	ug/L	-8	20	0.0500	
Methylene Chloride	0.6120	0.6091	20.00	19.91	ug/L	0	20	0.0500	
Carbon Disulfide	1.9042	1.7984	20.00	18.89	ug/L	-6	20	0.0500	
MTBE	1.6574	1.5535	20.00	18.75	ug/L	-6	20	0.0500	
trans-1,2-Dichloroethene	0.5459	0.5155	20.00	18.89	ug/L	-6	20	0.0500	
Vinyl Acetate	1.7365	1.4997	20.00	17.27	ug/L	-14	30	0.0500	
1,1-Dichloroethane	1.2187	1.1423	20.00	18.75	ug/L	-6	20	0.1000	
2-Butanone	0.4020	0.3644	20.00	18.13	ug/L	-9	30	0.0500	
2,2-Dichloropropane	0.8725	0.7872	20.00	18.04	ug/L	-10	20	0.0500	
cis-1,2-Dichloroethene	0.6131	0.5982	20.00	19.51	ug/L	-2	20	0.0500	
Chloroform	1.2219	1.1968	20.00	19.59	ug/L	-2	20	0.0500	
Bromochloromethane	0.3059	0.3039	20.00	19.87	ug/L	-1	20	0.0500	
1,1,1-Trichloroethane	0.8165	0.7452	20.00	18.25	ug/L	-9	20	0.0500	
1,1-Dichloropropene	0.5876	0.5425	20.00	18.47	ug/L	-8	20	0.0500	
Carbon Tetrachloride	0.4732	0.4324	20.00	18.28	ug/L	-9	20	0.0500	
1,2-Dichloroethane	0.5685	0.5610	20.00	19.74	ug/L	-1	20	0.0500	
Benzene	1.6283	1.6979	20.00	20.85	ug/L	4	20	0.0500	
Trichloroethene	0.3866	0.3909	20.00	20.22	ug/L	1	20	0.0500	
1,2-Dichloropropane	0.4873	0.4750	20.00	19.49	ug/L	-3	20	0.0500	m
Bromodichloromethane	0.6061	0.6304	20.00	20.80	ug/L	4	20	0.0500	
Dibromomethane	0.2938	0.2930	20.00	19.95	ug/L	0	20	0.0500	
4-Methyl-2-Pentanone	0.5437	0.5193	20.00	19.10	ug/L	-4	30	0.0500	
cis-1,3-Dichloropropene	0.7100	0.7264	20.00	20.46	ug/L	2	20	0.0500	
Toluene	0.8349	0.8453	20.00	20.25	ug/L	1	20	0.0500	
trans-1,3-Dichloropropene	0.6397	0.6425	20.00	20.09	ug/L	0	20	0.0500	
1,1,2-Trichloroethane	0.2136	0.2110	20.00	19.75	ug/L	-1	20	0.0500	
2-Hexanone	0.4449	0.4590	20.00	20.63	ug/L	3	30	0.0500	
1,3-Dichloropropane	0.7536	0.7841	20.00	20.81	ug/L	4	20	0.0500	
Tetrachloroethene	0.4226	0.4246	20.00	20.09	ug/L	0	20	0.0500	
Dibromochloromethane	0.4836	0.5165	20.00	21.36	ug/L	7	20	0.0500	
1,2-Dibromoethane	0.3462	0.3459	20.00	19.98	ug/L	0	20	0.0500	
Chlorobenzene	0.9727	1.0662	20.00	21.92	ug/L	10	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4019	0.4239	20.00	21.10	ug/L	5	20	0.0500	
Ethylbenzene	1.8172	1.9647	20.00	21.62	ug/L	8	20	0.0500	
m,p-Xylenes	0.5865	0.6252	40.00	42.64	ug/L	7	20	0.0500	
o-Xylene	0.5976	0.6295	20.00	21.07	ug/L	5	20	0.0500	
Styrene	1.0446	1.1305	20.00	21.65	ug/L	8	20	0.0500	
Bromoform	0.3579	0.3731	20.00	20.85	ug/L	4	20	0.1000	
Isopropylbenzene	2.6747	2.6834	20.00	20.07	ug/L	0	20	0.0500	
1,1,2,2-Tetrachloroethane	1.0702	1.1386	20.00	21.28	ug/L	6	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.8168	0.8329	20.00	20.39	ug/L	2	20	0.0500	m
Propylbenzene	3.5396	3.6165	20.00	20.43	ug/L	2	20	0.0500	
Bromobenzene	0.8558	0.9377	20.00	21.91	ug/L	10	20	0.0500	
1,3,5-Trimethylbenzene	2.0763	2.2124	20.00	21.31	ug/L	7	20	0.0500	
2-Chlorotoluene	2.3264	2.6417	20.00	22.71	ug/L	14	20	0.0500	
4-Chlorotoluene	2.0913	2.3696	20.00	22.66	ug/L	13	20	0.0500	
tert-Butylbenzene	1.7762	1.7604	20.00	19.82	ug/L	-1	20	0.0500	
1,2,4-Trimethylbenzene	1.9543	2.0562	20.00	21.04	ug/L	5	20	0.0500	
sec-Butylbenzene	2.8179	2.7862	20.00	19.78	ug/L	-1	20	0.0500	
para-Isopropyl Toluene	2.1032	2.0953	20.00	19.92	ug/L	0	20	0.0500	
1,3-Dichlorobenzene	1.4258	1.6597	20.00	23.28	ug/L	16	20	0.0500	
1,4-Dichlorobenzene	1.4734	1.6411	20.00	22.28	ug/L	11	20	0.0500	
n-Butylbenzene	2.1059	1.9979	20.00	18.97	ug/L	-5	20	0.0500	
1,2-Dichlorobenzene	1.3971	1.5796	20.00	22.61	ug/L	13	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1765	0.1865	20.00	21.13	ug/L	6	20	0.0500	
1,2,4-Trichlorobenzene	0.6464	0.7359	20.00	23.37	ug/L	17	20	0.0500	
Hexachlorobutadiene	0.5732	0.5481	20.00	19.12	ug/L	-4	20	0.0500	
Naphthalene	1.1033	0.8825	20.00	16.28	ug/L	-19	20	0.0500	
1,2,3-Trichlorobenzene	0.6576	0.6743	20.00	20.66	ug/L	3	20	0.0500	
Dibromofluoromethane	0.6048	0.5778	50.00	47.76	ug/L	-4	20	0.0500	
1,2-Dichloroethane-d4	0.4605	0.4530	50.00	49.18	ug/L	-2	20	0.0500	
Trifluorotoluene	0.5405	0.5398	20.00	19.98	ug/L	0	20	0.0500	
Toluene-d8	1.0968	1.1109	50.00	50.64	ug/L	1	20	0.0500	
Bromofluorobenzene	0.9595	0.9705	50.00	50.57	ug/L	1	20	0.0500	

ISTD (ICAL ecg11)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	751961	814179	8.27	9.80	9.79	-0.01
1,4-Difluorobenzene	1093331	1126736	3.06	10.90	10.91	0.01
Chlorobenzene-d5	980726	961098	-2.00	15.00	15.01	0.01
1,4-Dichlorobenzene-d4	574120	536033	-6.63	17.72	17.73	0.01

Analyst: MJD Date: 03/21/08 Reviewer: EAH Date: 03/24/08

+=high bias -=low bias c=CCV m=manual integration

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 438117134

Date : 03/21/08
Sequence : MSVOA04 dcl

Reference : dce12
Analyzed : 03/14/08 17:12

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	402255	10.00	600047	11.12	504409	15.22	272365	17.95
		LOWER LIMIT	201128	9.50	300024	10.62	252205	14.72	136183	17.45
		UPPER LIMIT	804510	10.50	1200094	11.62	1008818	15.72	544730	18.45
004	CCV	25PPB	481804	9.98	733431	11.09	658283	15.20	368675	17.93
005	BS	QC433940	470932	9.97	728615	11.10	661411	15.21	368409	17.94
006	BSD	QC433941	434581	9.98	676483	11.09	615722	15.20	337880	17.93
007	BLANK	QC433939	455095	9.98	665373	11.09	609091	15.20	334763	17.93
008	SAMPLE	202079-006	463275	9.98	685987	11.09	614998	15.20	308061	17.93
009	SAMPLE	202079-007	431610	9.97	651265	11.09	567983	15.21	275996	17.94
010	SAMPLE	202079-008	454848	9.97	679716	11.10	622787	15.21	315473	17.94
011	SAMPLE	202043-009	428778	9.97	645204	11.09	574758	15.21	280295	17.94
012	SAMPLE	202019-009	478273	9.98	690797	11.09	634176	15.21	353408	17.94
013	SAMPLE	202043-003	471568	9.97	688463	11.10	627795	15.21	366693	17.94
014	SAMPLE	202043-008	493078	9.97	694564	11.10	623350	15.21	364970	17.94
015	SAMPLE	202043-004	416461	9.96	574243	11.08	590771	15.20	387060	17.94
016	SAMPLE	202043-007	436386	9.96	589207	11.09	614603	15.21	399442	17.95
017	SAMPLE	201958-009	252209	9.98	332526	11.10	317366	15.22	177006	17.95
018	SAMPLE	201958-010	510375	9.99	746197	11.10	667756	15.21	339236	17.94
019	SAMPLE	201958-011	506103	9.98	728599	11.10	648441	15.22	341869	17.95
020	SAMPLE	201958-012	505725	9.98	735573	11.10	675630	15.21	372723	17.94
021	SAMPLE	202121-006	478968	9.99	721838	11.11	653620	15.21	349867	17.94
022	SAMPLE	202121-007	492857	9.99	745551	11.11	665883	15.22	337013	17.95
023	SAMPLE	202121-008	484327	9.99	716124	11.10	637891	15.21	319490	17.95
024	SAMPLE	202121-009	484662	9.99	747314	11.10	682033	15.21	351005	17.94

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 448115696

Date : 03/20/08
Sequence : MSVOA05 eck

Reference : ecg11
Analyzed : 03/16/08 21:07

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	751961	9.80	1093331	10.90	980726	15.00	574120	17.72
		LOWER LIMIT	375981	9.30	546666	10.40	490363	14.50	287060	17.22
		UPPER LIMIT	1503922	10.30	2186662	11.40	1961452	15.50	1148240	18.22
003	CCV	20PPB	814179	9.79	1126736	10.91	961098	15.01	536033	17.73
004	LCS	QC433728	918245	9.79	1287992	10.91	1053311	15.01	560046	17.73
005	BLANK	QC433729	968326	9.80	1295946	10.90	1092528	15.00	518376	17.73
006	SAMPLE	202047-001	914359	9.80	1267668	10.91	1041386	15.01	484509	17.73
007	SAMPLE	202047-002	832746	9.80	1220805	10.91	965415	15.01	425631	17.73
008	SAMPLE	202047-003	802508	9.79	1170298	10.90	834451	15.00	282617 *	17.72
009	SAMPLE	202047-004	856925	9.79	1180244	10.91	985404	15.01	461284	17.73
010	SAMPLE	202047-005	852865	9.80	1184622	10.91	973004	15.01	461407	17.73
011	SAMPLE	202047-006	833015	9.80	1135730	10.90	937137	15.00	410629	17.72
012	SAMPLE	202047-003	810570	9.80	1135339	10.91	957956	15.00	425393	17.73
013	MSS	202043-001	803207	9.79	1094178	10.91	892800	15.01	419515	17.73
014	SAMPLE	202043-002	833764	9.79	1137099	10.91	966155	15.01	535775	17.73
015	SAMPLE	202043-003	974304	9.80	1288891	10.91	918552	15.02	633150	17.74
016	SAMPLE	202043-004	974732	9.80	1380859	10.91	1073147	15.01	558306	17.73
017	SAMPLE	202043-005	1035314	9.79	1376888	10.91	1176280	15.01	616103	17.73
018	SAMPLE	202043-006	1107406	9.80	1431112	10.91	1223754	15.01	603145	17.73
019	SAMPLE	202043-007	1093844	9.80	1483451	10.91	1252597	15.00	631794	17.73
020	SAMPLE	202043-008	1030941	9.80	1372554	10.91	941507	15.01	558908	17.73
021	MS	QC433792	1023091	9.79	1344813	10.90	1135866	15.00	625169	17.72
022	MSD	QC433793	1034748	9.80	1391052	10.90	1124521	15.00	619213	17.72

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 438107113

Instrument : MSVOA04
Method : EPA 8260B
Begun : 03/14/08 09:13
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	dce01	X	IB			03/14/08 09:13	1.0	1
002	dce02	X	IB			03/14/08 09:47	1.0	1
003	dce03	X	BFB			03/14/08 10:16	1.0	2
004	dce04	TUN	BFB			03/14/08 12:21	1.0	2
005	dce05	CCV	35PPB			03/14/08 13:04	1.0	3 4 1
006	dce06	X	IB			03/14/08 13:38	1.0	1
007	dce07	IB	CALIB			03/14/08 14:24	1.0	1
008	dce08	ICAL	2.5PPB			03/14/08 14:57	1.0	5 4 1
009	dce09	ICAL	5PPB			03/14/08 15:31	1.0	5 4 1
010	dce10	ICAL	10PPB			03/14/08 16:05	1.0	5 4 1
011	dce11	ICAL	20PPB			03/14/08 16:38	1.0	5 4 1
012	dce12	ICAL	50PPB			03/14/08 17:12	1.0	5 4 1
013	dce13	ICAL	60PPB			03/14/08 17:46	1.0	5 4 1
014	dce14	ICAL	75PPB			03/14/08 18:19	1.0	5 4 1
015	dce15	ICAL	100PPB			03/14/08 18:54	1.0	5 4 1
016	dce16	X	ICVGAS25PPB			03/14/08 19:27	1.0	6 1
017	dce17	ICV	ICV25PPB			03/14/08 20:01	1.0	7 8 1
018	dce18	X	IB			03/14/08 20:35	1.0	1
019	dce19	X	IB			03/14/08 21:08	1.0	1

Analyst: MJD Date: 03/17/08 Reviewer: LW Date: 03/18/08

Standards used: 1=S8549 2=S7916 3=S8368 4=S8400 5=S8668 6=S8534 7=S8538 8=S8648

00059

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 438109986

Instrument : MSVOA04
Method : EPA 8260B

Begun : 03/16/08 09:06
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	dcg01	X	IB			03/16/08 09:06	1.0	1
002	dcg02	TUN	BFB			03/16/08 09:52	1.0	2
003	dcg03	CCV	25PPB			03/16/08 10:28	1.0	3 4 1
004	dcg04	BS	QC433077	Soil	136028	03/16/08 11:15	1.0	5 6 7 1
005	dcg05	BSD	QC433078	Soil	136028	03/16/08 11:49	1.0	5 6 7 1
006	dcg06	X	IB			03/16/08 12:22	1.0	1
007	dcg07	BLANK	QC433076	Soil	136028	03/16/08 12:56	1.0	1
008	dcg08	ICV	ICVGAS25PPB			03/16/08 17:22	1.0	6 1
009	dcg09	X	IB			03/16/08 17:56	1.0	1

Analyst: MJD Date: 03/17/08 Reviewer: LW Date: 03/20/08

Standards used: 1=S8549 2=S7916 3=S8668 4=S8400 5=S8648 6=S8534 7=S8538

00060

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 438117134

Instrument : MSVOA04
Method : EPA 8260B

Begun : 03/21/08 08:14
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	dcl01	X	IB				03/21/08 08:14	1.0	1	
002	dcl02	X	BFB				03/21/08 08:42	1.0	2	
003	dcl03	TUN	BFB				03/21/08 08:56	1.0	2	
004	dcl04	CCV	25PPB				03/21/08 09:12	1.0	3 4 1	
005	dcl05	BS	QC433940		Soil	136236	03/21/08 09:58	1.0	5 6 7 1	
006	dcl06	BSD	QC433941		Soil	136236	03/21/08 10:32	1.0	5 6 7 1	
007	dcl07	BLANK	QC433939		Soil	136236	03/21/08 11:05	1.0	1	
008	dcl08	SAMPLE	202079-006		Soil	136236	03/21/08 11:39	1.19	1	
009	dcl09	SAMPLE	202079-007		Soil	136236	03/21/08 12:13	1.087	1	
010	dcl10	SAMPLE	202079-008		Soil	136236	03/21/08 12:46	0.9804	1	
011	dcl11	SAMPLE	202043-009		Soil	136236	03/21/08 13:20	0.7937	1	
012	dcl12	SAMPLE	202019-009		Soil	136236	03/21/08 13:54	1.087	1	
013	dcl13	SAMPLE	202043-003	M	Soil	136236	03/21/08 14:27	83.33	8 1	
014	dcl14	SAMPLE	202043-008	M	Soil	136236	03/21/08 15:01	83.33	8 1	
015	dcl15	SAMPLE	202043-004	M	Soil	136236	03/21/08 15:35	25.0	8 1	
016	dcl16	SAMPLE	202043-007	M	Soil	136236	03/21/08 16:08	25.0	8 1	
017	dcl17	SAMPLE	201958-009		Soil	136236	03/21/08 16:42	0.5495	1	
018	dcl18	SAMPLE	201958-010		Soil	136236	03/21/08 17:15	0.4854	1	
019	dcl19	SAMPLE	201958-011		Soil	136236	03/21/08 17:49	0.4902	1	
020	dcl20	SAMPLE	201958-012		Soil	136236	03/21/08 18:23	0.5102	1	
021	dcl21	SAMPLE	202121-006		Soil	136236	03/21/08 18:56	1.02	1	1:ACE=110
022	dcl22	SAMPLE	202121-007		Soil	136236	03/21/08 19:30	1.111	1	1:ACE=120
023	dcl23	SAMPLE	202121-008		Soil	136236	03/21/08 20:03	1.064	1	1:ACE=110
024	dcl24	SAMPLE	202121-009		Soil	136236	03/21/08 20:37	1.136	1	1:ACE=170
025	dcl25	X	IB				03/21/08 21:11	1.0	1	
026	dcl26	X	IB				03/21/08 21:44	1.0	1	
027	dcl27	X	IB				03/21/08 22:18	1.0	1	
028	dcl28	X	IB				03/21/08 22:51	1.0	1	
029	dcl29	X	IB				03/21/08 23:25	1.0	1	
030	dcl30	X	4A				03/21/08 23:58	1.0	1	
031	dcl31	X	4B				03/22/08 00:32	1.0	1	

Analyst: MJD Date: 03/24/08 Reviewer: ACM Date: 03/24/08

Standards used: 1=S8549 2=S7916 3=S8668 4=S8400 5=S8648 6=S8721 7=S8538 8=S8493

00061

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 448110396

Instrument : MSVOA05
Method : EPA 8260B

Begun : 03/16/08 15:56
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ecg01	X	IB			03/16/08 15:56	1.0	1	
002	ecg02	TUN	BFB			03/16/08 16:44	1.0	2	
003	ecg03	TUN	BFB			03/16/08 16:59	1.0	2	
004	ecg04	TUN	BFB			03/16/08 17:22	1.0	2	
005	ecg05	X	IB			03/16/08 17:49	1.0	1	
006	ecg06	IB	CALIB IB			03/16/08 18:22	1.0	1	
007	ecg07	ICAL	2.5PPB			03/16/08 18:55	1.0	3 4 1	
008	ecg08	ICAL	5PPB			03/16/08 19:28	1.0	3 4 1	
009	ecg09	ICAL	10PPB			03/16/08 20:01	1.0	3 4 1	
010	ecg10	ICAL	20PPB			03/16/08 20:35	1.0	3 4 1	
011	ecg11	ICAL	50PPB			03/16/08 21:07	1.0	3 4 1	
012	ecg12	ICAL	60PPB			03/16/08 21:40	1.0	3 4 1	
013	ecg13	ICAL	75PPB			03/16/08 22:13	1.0	3 4 1	
014	ecg14	ICAL	100PPB			03/16/08 22:46	1.0	3 4 1	
015	ecg15	ICV	25PPB			03/16/08 23:19	1.0	5 1	
016	ecg16	ICV	25PPB			03/16/08 23:52	1.0	6 7 1	
017	ecg17	X	IB			03/17/08 00:25	1.0	1	
018	ecg18	X	IB			03/17/08 00:58	1.0	1	

Analyst: BO Date: 03/17/08 Reviewer: LW Date: 03/18/08

Standards used: 1=S8549 2=S7916 3=S8668 4=S8400 5=S8534 6=S8648 7=S8538

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 448111347

Instrument : MSVOA05
Method : EPA 8260B

Begun : 03/17/08 07:47
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ech01	X	IB			03/17/08 07:47	1.0	1	
002	ech02	TUN	BFB			03/17/08 08:39	1.0	2	
003	ech03	CCV	20PPB			03/17/08 08:57	1.0	3 4 1	
004	ech04	ICV	25PPB			03/17/08 09:47	1.0	5 1	
005	ech05	LCS	QC433122	Soil	136038	03/17/08 10:39	1.0	6 5 7 1	
006	ech06	X	IB			03/17/08 11:12	1.0	1	
007	ech07	BLANK	QC433123	Soil	136038	03/17/08 11:46	1.0	1	
008	ech08	SAMPLE	201958-015	Soil	136038	03/17/08 12:19	0.4762	1	3:TCB124=1300
009	ech09	SAMPLE	201958-016	Soil	136038	03/17/08 12:52	0.5051	1	2:TCB124=630
010	ech10	SAMPLE	201958-018	Soil	136038	03/17/08 13:26	0.5495	1	1:DCA11=120
011	ech11	SAMPLE	201958-019	Soil	136038	03/17/08 13:59	0.7353	1	2:DCBZ14=150
012	ech12	X	IB			03/17/08 14:31	1.0	1	
013	ech13	X	IB			03/17/08 15:05	1.0	1	
014	ech14	X	IB			03/17/08 16:19	1.0	1	
015	ech15	X	IB			03/17/08 16:51	1.0	1	
016	ech16	X	IB			03/17/08 17:24	1.0	1	
017	ech17	X	IB			03/17/08 17:58	1.0	1	
018	ech18	X	IB			03/17/08 18:30	1.0	1	
019	ech19	X	IB			03/17/08 19:04	1.0	1	
020	ech20	X	IB			03/17/08 19:37	1.0	1	
021	ech21	X	IB			03/17/08 20:10	1.0	1	
022	ech22	X	IB			03/17/08 20:43	1.0	1	
023	ech23	X	IB			03/17/08 21:16	1.0	1	
024	ech24	X	IB			03/17/08 21:50	1.0	1	
025	ech25	X	IB			03/17/08 22:23	1.0	1	
026	ech26	X	IB			03/17/08 22:57	1.0	1	
027	ech27	X	IB			03/17/08 23:29	1.0	1	
028	ech28	X	IB			03/18/08 00:03	1.0	1	
029	ech29	X	IB			03/18/08 00:36	1.0	1	
030	ech30	X	IB			03/18/08 01:09	1.0	1	
031	ech31	X	IB			03/18/08 01:43	1.0	1	
032	ech32	X	IB			03/18/08 02:16	1.0	1	
033	ech33	X	IB			03/18/08 02:49	1.0	1	
034	ech34	X	IB			03/18/08 03:23	1.0	1	
035	ech35	X	IB			03/18/08 03:55	1.0	1	
036	ech36	X	IB			03/18/08 04:29	1.0	1	
037	ech37	X	IB			03/18/08 05:02	1.0	1	
038	ech38	X	IB			03/18/08 05:35	1.0	1	
039	ech39	X	IB			03/18/08 06:08	1.0	1	
040	ech40	X	IB			03/18/08 06:42	1.0	1	
041	ech41	X	IB			03/18/08 07:15	1.0	1	

Analyst: BO Date: 03/18/08 Reviewer: LW Date: 03/18/08

Standards used: 1=S8549 2=S7916 3=S8668 4=S8400 5=S8534 6=S8648 7=S8538

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 448115696

Instrument : MSVOA05
Method : EPA 8260B

Begun : 03/20/08 08:16
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	eck01	X	IB			03/20/08 08:16	1.0	1	
002	eck02	TUN	BFB			03/20/08 08:43	1.0	2	
003	eck03	CCV	20PPB			03/20/08 09:00	1.0	3 4 1	
004	eck04	LCS	QC433728	Soil	136185	03/20/08 09:52	1.0	5 6 7 1	
005	eck05	BLANK	QC433729	Soil	136185	03/20/08 10:25	1.0	1	
006	eck06	SAMPLE	202047-001	Soil	136185	03/20/08 10:58	1.136	1	
007	eck07	SAMPLE	202047-002	Soil	136185	03/20/08 11:31	1.19	1	
008	eck08	SAMPLE	202047-003	Soil	136185	03/20/08 12:04	0.8333	1	
009	eck09	SAMPLE	202047-004	Soil	136185	03/20/08 12:38	0.7937	1	
010	eck10	SAMPLE	202047-005	Soil	136185	03/20/08 13:10	1.19	1	
011	eck11	SAMPLE	202047-006	Soil	136185	03/20/08 13:44	0.9434	1	
012	eck12	SAMPLE	202047-003	Soil	136185	03/20/08 14:17	0.9091	1	
013	eck13	MSS	202043-001	Soil	136185	03/20/08 14:50	0.7813	1	
014	eck14	SAMPLE	202043-002	Soil	136185	03/20/08 15:24	0.8772	1	
015	eck15	SAMPLE	202043-003	Soil	136185	03/20/08 15:57	1.02	1	8:TCA112=800
016	eck16	SAMPLE	202043-004	Soil	136185	03/20/08 16:30	0.8333	1	1:ACE=120
017	eck17	SAMPLE	202043-005	Soil	136185	03/20/08 17:03	0.8333	1	
018	eck18	SAMPLE	202043-006	Soil	136185	03/20/08 17:37	0.8197	1	
019	eck19	SAMPLE	202043-007	Soil	136185	03/20/08 18:10	0.8333	1	1:ACE=100
020	eck20	SAMPLE	202043-008	Soil	136185	03/20/08 18:43	1.0	1	8:TCA112=470
021	eck21	MS	QC433792	Soil	136185	03/20/08 19:16	0.7576	5 6 7 1	
022	eck22	MSD	QC433793	Soil	136185	03/20/08 19:49	0.8197	5 6 7 1	
023	eck23	X	IB			03/20/08 20:22	1.0	1	
024	eck24	X	IB			03/20/08 20:55	1.0	1	
025	eck25	X	IB			03/20/08 21:29	1.0	1	
026	eck26	X	5A			03/20/08 22:02	1.0	1	
027	eck27	X	5B			03/20/08 22:35	1.0	1	

Analyst: BO Date: 03/21/08 Reviewer: ACM Date: 03/21/08

Standards used: 1=S8549 2=S7916 3=S8668 4=S8400 5=S8648 6=S8534 7=S8538

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 3/26/08

Prepped by: JS

136185

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	~~202~~	L		X		0		
2	201967-1	10.0	B			0.1		
3	-3	10.0						
4	-4	10.0						
5	201958-10	10.0	D			25X		
6	-11	10.0						
7	-12	10.0						
8	-13	—				No sample		
9	-14	10.0				25X		
10	201924-14	—				Aliased 924-11 No sample		
11	-15	10.0				-12 100X		
12	-16	10.0				-13 100X		
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	202047-1	4.4	A		5			
2	-2	4.2						
3	-3	6.0						
4	-3	5.5	B			MH 1x, 15TO		
5	-4	6.3	A					
6	-5	4.2						
7	-6	5.3						
8	202043-1	4.4	A			MSS		
9	-1	6.6	B			MS		
10	-1	6.1	C			MSD		
11	-2	5.7	A					
12	-3	4.9						
13	-4	6.0						
14	-5	6.0						
15	-6	6.1						
16	-7	6.0						
17	-8	5.0						

F:/home/terri/templates/Soilprepsheet.xls

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 3/21/08

Prepped by: Jil

136229

136236

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	202010-1	10.0	A	X	7		250x	
2	-4	10.0	↓	↓	↓			
3	202010-2	8.7	B			encores 37.0-28.3		
4	-3	10.3	C			38.4-28.1		
5	-5	10.0	A			38.3-28.3		
6	-6	9.2	↓			37.3-28.1		
7	-7	8.4	C			36.5-28.1		
8	-8	9.6	B	↓	↓	↓ 37.2-27.6	↓	
9								
10								
11	202121-001	4.0	A		12	Encores		
12	002	4.7			↓			
13	003	5.3						
14	004	4.6						
15	005	4.1			4			
16	006	4.9						
17	007	4.5						
18	008	4.7 4.4						
	009	4.4	↓		↓			
20	202097-003	5.2	A		12	encore Bragged Vial 35.9-30.7		
21	005	4.9				35.6-30.7		
22	006	4.2				34.9-30.7		
23	007	5.2				35.9-30.7		
24	008	4.7	↓		↓	↓ 35.4-30.7		
25	201924-015	0.005	D		12	RR 1000X		
26	016	0.005	↓		↓	RR 1000X		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	202079-1	4.2	A		12			
2	-2	3.9						
3	-3	5.9						
4	-4	5.3						
5	-5	4.7						
6	-6	4.2			4			
7	-7	4.6						
8	-8	5.1	↓		↓			
9	201958-14	0.100	D		12	MM 50x		
10	-15	0.200	↓		↓	MM 25x		
11	-9	9.1	C		4	MM 1x 40.7-31.6 +5mL H2O		
	202043-9	6.3	A&D	3/3/08	4	MM 1x		
	202019-9	4.6	E		↓	MM 1x 35.7-31.1		
14	201958-010	10.3	A		4	RR 1x 42.2-31.9 +5mL H2O		
15	011	10.2				RR 1x 41.4-31.2		
16	012	9.8	↓		↓	RR 1x 41.3-31.5		
17								

F:/home/terri/templates/Soilprepsheet.xls

Date & Initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comment
3/3/08 lie	Blank See on Page #46			Q 5035	Prep Log	Book	# BK	1860
	201388-1 A	10.0	10.0	CT981	8260	58493	0.010	Re-extracted
	201505-1 ↓	↓	↓	↓	↓	↓	↓	
3/4/08 lie	Blank See on Page #46			Q 5035	Prep Log	Book #	BK	1860
	201593-3 A	10.0	10.0	CT981	8260	58493		oil
3/12/08 lie	Blank	10.0	10.0	CT981	8260	58493	0.010	
	201717-2 A	↓						
	-3 B	5.0						oil
	201729-1 A							
	201831-1 B	↓	↓	↓	↓	↓	↓	↓
3/13/08 lie	Blank	10.0	10.0	CT981	8260	58493	0.010	
↓	201831-2 B	1.0	10.0	↓	↓	↓	↓	Brought up to the volume
3/18/08 lie	Blank	10.0	10.0	CT981	8260	58493	0.010	
	201958-1 D							
	↓ -15							
	↓ -16 ↓							
	201977-3 A							
	↓ -4 ↓	↓	↓	↓	↓	↓	↓	
3/20/08 lie	Blank	10.0	10.0	CT981	8260	58493	0.010	
	201967-1 B							oil
	↓ -3							↓
	↓ -4 ↓							
	201924-15 D							Diesel 924-12
	↓ -16							↓ -13
	201958-10							
	↓ -11							
	-12							
	↓ -14 ↓	↓	↓	↓	↓	↓	↓	

Continued on Page

Read and Understood By

Signed Date Signed Date

BK 1860

5035 Prep Log

Date & initial	Sample ID	Soil wt (g)	MeOH Vol (mL)	MeOH Lot #	Surrogate std #	Surrogate std. Vol. (mL)	Comments
2/28/08 lc	BLank	5.0	5.0	CT981	58493	0.005	
	201486-3C	2.5	2.5			0.0025	aliased 201418-12
	201488-3 D	4.8	4.8			0.0048	
	-9 C	4.7	4.7			0.0047	
	-1 D	4.9	4.9			0.0049	
	-4 ⊥	5.0	5.0			0.005	
	201378-7 C	2.3	2.3			0.0023	
	-14 ⊥	3.8	3.8			0.0038	
	-15 D	2.1	2.1			0.0021	
2/29/08 lc	BLank	5.0	5.0	CT981	58493	0.005	
	201378-7 D	3.2	3.2			0.0032	Re-extracted
	-14 ⊥	3.2	3.2			0.0032	
	-15 E	3.3	3.3			0.0033	
	201488-1 E	5.0	5.0			0.005	
	-4 ⊥	5.1	5.1			0.0051	
	201533-7 B	4.0	4.0			0.004	
	-9 ⊥	3.4	3.4			0.0034	
3/3/08 lc	BLank	5.0	5.0	CT981	58493	0.005	
	201583-7 D	5.3	5.3			0.0053	aliased 201488-1
	-9 ⊥	5.2	5.2			0.0052	-1 ⊥
3/3/08 lc	201450-6 4D	4.6	4.6	CT981	58493	0.0046	
3/4/08 lc	BLank	5.0	5.0	CT981	58493	0.005	
	201582-7 B	4.5	4.5			0.0045	
	201583-11 D	4.5	4.5			0.0045	aliased 201488
	201583-4 ⊥	4.7	4.7			0.0047	
	-9 E	5.4	5.4			0.0054	
	-10 D	5.2	5.2			0.0052	
3/18/08 lc	BLank see on Page # 29 of 31 in DA Extraction Log Book #				58493	0.005	BK 2351 Prepped by lc
	201952-18 A	9.1	5.0				
	-19	7.7					
	-20	8.0					
	-21 B	11.0					
	201959-13 C	8.4					
	-14 E	10.0					
	-15 B	8.3					

lc

3/19/08

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 3/21/08

Prepped by: JR

136236

136242

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	202090-1	5.0	A		5			
2	-2	5.3				MS5/MSD/MS D		
3	-3	5.2						
4	-6	5.3						
5	-7	5.1						
6	-8	5.5						
7	202038-1	5.0	A					
8	-2	5.4						
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25	PREP BLK	0.200			5	prepped 3/20		
26	PREP BLK	0.200				prepped 3/21		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	202043-3	5.5	E	X	4	MS 83x, HC, > LR		
2	-4	5.8	C	X		MS MSD 25x, Ac > LR		
3	-5	6.3	D		5	MS 1x, Co		
4	-6	6.4	C			MS 1x, Co		
5	-7	6.6	E	X	4	MS 25x, Ac > LR		
6	-8	4.7	D	X		MS 83x, HC > LR		
7	202106-1	6.1	C					
8	-2	5.4						
9	-3	6.2	B					
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

PROJECT 5035 Prep Log

Notebook No. BK1860

Continued From Page

Date & Initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
3/19/08 BC	Blank	5.0	5.0	CT981	S8493	0.005	
	202007-9 B	4.3	4.3			0.0043	
	-10	4.3	4.3			0.0043	
	-11	5.9	5.9			0.0059	
3/21/08 BC	Blank	5.0	5.0	CT981	S8493	0.005	
	20243-3 E	5.5	5.5			0.0055	
	-4 C	5.8	5.8			0.0058	
	-7 C	6.6	6.6			0.0066	
	-8 D	4.7	4.7			0.0047	
	202010-2 B	8.7	5.0		S8493	0.005	Prepped by client
	-3 C	10.3					
	-5 A	10.0					
	-6	9.2					
	-7 C	8.4					
	-8 B	9.6					

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd.

Sample Raw Data

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst	: MSVOA05	Lab ID	: 202043-001	Client ID	: 1065EX307[6.0]
Seqnum	: 448115696013	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: eck13	Batch	: 136185	Time	: 20-MAR-2008 14:50
Cal	: 448110396001	Caldate	: 16-MAR-2008	Caltype	: SOIL
IDF	: 0.7813			Units	: ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	ND		7.8		u v-
Chloromethane	ND		7.8		u
Vinyl Chloride	ND		7.8		u
Bromomethane	ND		7.8		c+ u
Chloroethane	0.64 J	-0.394	7.8		?curve+ u x
Trichlorofluoromethane	ND		3.9		u v-
Acetone	5.7 J		16		u
Freon 113	ND		3.9		c- u
1,1-Dichloroethene	ND		3.9		u
Methylene Chloride	1.3 J		16	0.61	m u
Carbon Disulfide	ND		3.9		u
MTBE	ND		3.9		u
trans-1,2-Dichloroethene	ND		3.9		u
Vinyl Acetate	ND		39		u
1,1-Dichloroethane	ND		3.9		u
2-Butanone	1.3 J		7.8		u
cis-1,2-Dichloroethene	ND		3.9		u
2,2-Dichloropropane	ND		3.9		u
Chloroform	0.29 J		3.9		u
Bromochloromethane	ND		3.9		u
1,1,1-Trichloroethane	ND		3.9		u
1,1-Dichloropropene	4.7	-0.295	3.9		u x
Carbon Tetrachloride	5.2	-0.276	3.9		u x
1,2-Dichloroethane	2.7 J	0.405	3.9		u x
Benzene	ND		3.9		u
Trichloroethene	3.1 J	-0.393	3.9		u x
1,2-Dichloropropane	ND		3.9		u
Bromodichloromethane	ND		3.9		u
Dibromomethane	ND		3.9		u
4-Methyl-2-Pentanone	0.79 J	0.187	7.8		u x
cis-1,3-Dichloropropene	ND		3.9		u
Toluene	ND		3.9		u
trans-1,3-Dichloropropene	ND		3.9		u
1,1,2-Trichloroethane	ND		3.9		u
2-Hexanone	ND		7.8		u
1,3-Dichloropropane	ND		3.9		u
Tetrachloroethene	ND		3.9		u
Dibromochloromethane	ND		3.9		u
1,2-Dibromoethane	ND		3.9		u
Chlorobenzene	ND		3.9		u
1,1,1,2-Tetrachloroethane	ND		3.9		u
Ethylbenzene	ND		3.9		u
m,p-Xylenes	ND		3.9		u
o-Xylene	ND		3.9		u
Styrene	ND		3.9		u
Bromoform	ND		3.9		u
Isopropylbenzene	ND		3.9		u
1,1,2,2-Tetrachloroethane	ND		3.9		u
1,2,3-Trichloropropane	ND		3.9		u

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	ND		3.9		u
Bromobenzene	ND		3.9		u
1,3,5-Trimethylbenzene	ND		3.9		u
2-Chlorotoluene	ND		3.9		u
4-Chlorotoluene	ND		3.9		u
tert-Butylbenzene	ND		3.9		u
1,2,4-Trimethylbenzene	ND		3.9		u
sec-Butylbenzene	ND		3.9		u
para-Isopropyl Toluene	ND		3.9		u
1,3-Dichlorobenzene	ND		3.9		u
1,4-Dichlorobenzene	ND		3.9		u
n-Butylbenzene	ND		3.9		u
1,2-Dichlorobenzene	ND		3.9		u
1,2-Dibromo-3-Chloropropane	ND		3.9		u
1,2,4-Trichlorobenzene	ND		3.9		u
Hexachlorobutadiene	ND		3.9		u
Naphthalene	0.74 J		3.9	1.5	?curve+ u x
1,2,3-Trichlorobenzene	ND		3.9	0.54	u

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	39.06	37.19	95	78-126	u
1,2-Dichloroethane-d4	39.06	42.82	110	76-137	u
Toluene-d8	39.06	39.30	101	80-120	u
Bromofluorobenzene	39.06	46.12	118	80-121	u

ISTD (ICAL ecg11)	ICAL Area	MSS Area	%Drift	ICAL RT	MSS RT	Drift
Pentafluorobenzene	751961	803207	6.81	9.80	9.79	-0.01
1,4-Difluorobenzene	1093331	1094178	0.08	10.90	10.91	0.01
Chlorobenzene-d5	980726	892800	-8.97	15.00	15.01	0.01
1,4-Dichlorobenzene-d4	574120	419515	-26.93	17.72	17.73	0.01

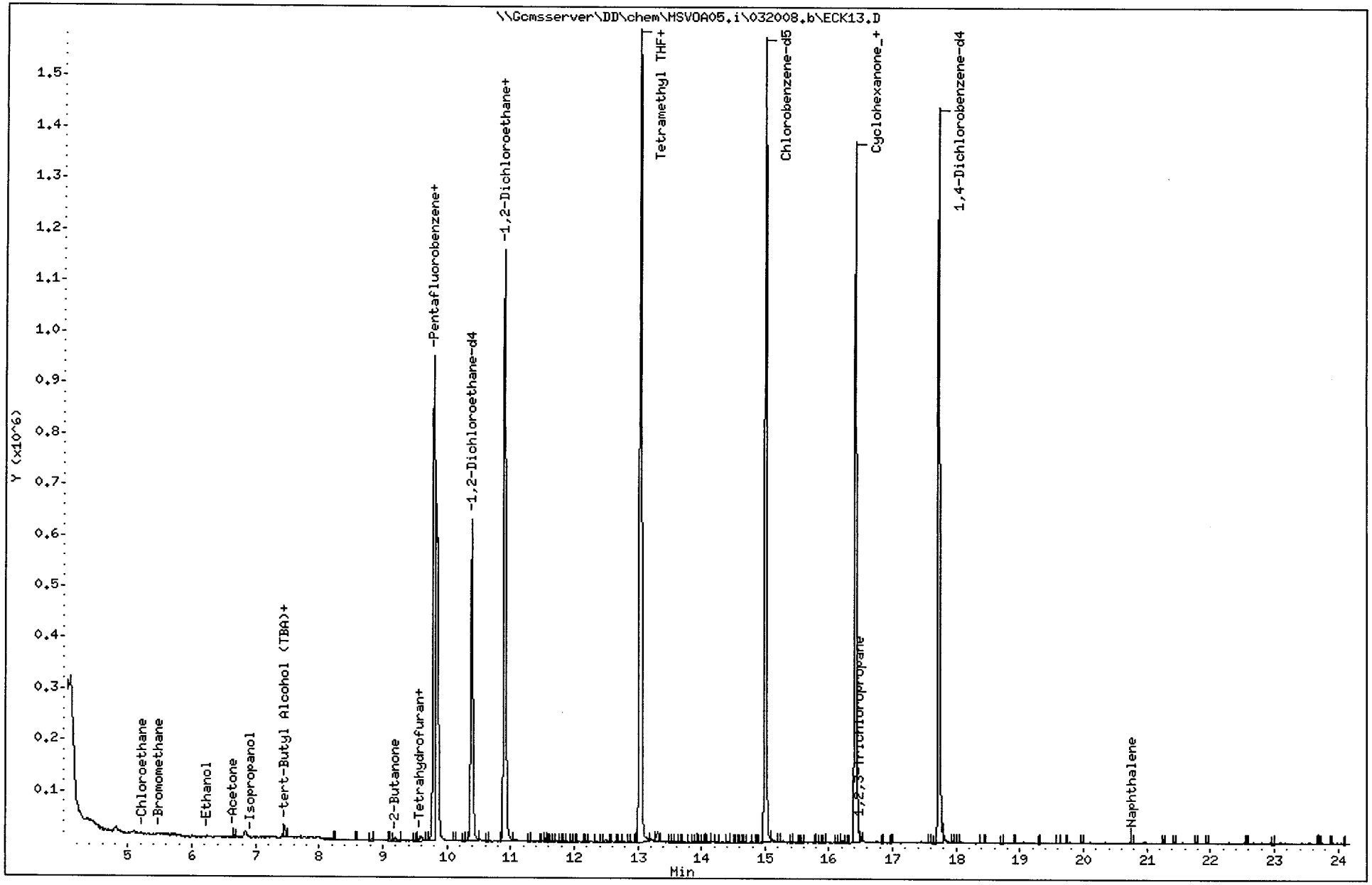
Analyst: BO Date: 03/21/08 Reviewer: ACM Date: 03/21/08

+=high bias -=low bias ?curve=check curve c=CCV m=manual integration u=use v=ICV x=false positive

448115696013

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D
Date : 20-MAR-2008 14:50
Client ID: DYNA P&T
Sample Info: MSS,202043-001
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i
Operator: VOC
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D
Report Date: 21-Mar-2008 11:41

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 20-MAR-2008 14:50
MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC
Inst ID: MSVOA05.i
Smp Info : MSS,202043-001
Misc Info : 136185,6.4/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06
Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55
Cal File: ECG07.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	4 Bromomethane	94	5.485	5.483	(0.560)	251	0.86964	0.8696
	5 Chloroethane	64	5.219	5.620	(0.533)	101	0.81331	0.8133
	7 Ethanol	45	6.224	6.231	(0.636)	845	6.71029	6.7102(A)
	10 Acetone	43	6.835	6.852	(0.698)	24264	7.32436	7.3243
	11 Isopropanol	45	6.924	6.941	(0.707)	733	0.96370	0.9636(A)
	13 Methylene Chloride	84	7.446	7.463	(0.760)	15783	1.60542	1.6054(M)
	14 tert-Butyl Alcohol (TBA)	59	7.466	7.483	(0.762)	413	0.37151	0.3715(aA)
	22 2-Butanone	43	9.180	9.198	(0.938)	11101	1.71917	1.7191
	25 Tetrahydrofuran	42	9.575	9.572	(0.978)	1342	0.37173	0.3717(aA)
	26 Chloroform	83	9.604	9.612	(0.981)	7285	0.37115	0.3711(a)
*	27 Pentafluorobenzene	168	9.791	9.799	(1.000)	803207	50.0000	
	28 Dibromofluoromethane	113	9.841	9.848	(1.005)	462556	47.6069	47.6069
	30 Carbon Tetrachloride	117	9.791	10.075	(0.898)	68376	6.60264	6.6026
	31 1,1-Dichloropropene	75	9.791	10.094	(0.898)	77089	5.99541	5.9954
	32 1,2-Dichloroethane-d4	65	10.383	10.400	(0.952)	552354	54.8084	54.8084
	35 1,2-Dichloroethane	62	10.905	10.508	(1.000)	42473	3.41422	3.4142
*	36 1,4-Difluorobenzene	114	10.905	10.912	(1.000)	1094178	50.0000	
	37 Trichloroethene	95	10.905	11.307	(1.000)	33966	4.01464	4.0146
	42 Tetramethyl THF	43	13.034	12.657	(1.195)	12025	0.52453	0.5245(A)
	44 4-Methyl-2-Pentanone	43	13.034	12.854	(1.195)	12025	1.01064	1.0106
	45 Toluene-d8	98	13.034	13.041	(1.195)	1207273	50.3004	50.3004
*	54 Chlorobenzene-d5	117	15.005	15.012	(1.000)	892800	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D
Report Date: 21-Mar-2008 11:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	63 Cyclohexanone_	55	16.414	16.402	(0.926)	2361	2.10354	2.1035(A)
	64 Bromofluorobenzene	95	16.414	16.421	(0.926)	475282	59.0346	59.0346
	68 1,2,3-Trichloropropane	75	16.532	16.658	(0.933)	939	0.13701	0.1370(a)
	69 2-Chlorotoluene	91	16.414	16.806	(0.926)	2252	0.11537	0.1153(a)
*	77 1,4-Dichlorobenzene-d4	152	17.725	17.732	(1.000)	419515	50.0000	
	84 Naphthalene	128	20.622	20.630	(1.163)	153	0.94527	0.9452

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

[Chloroethane; 0.64 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

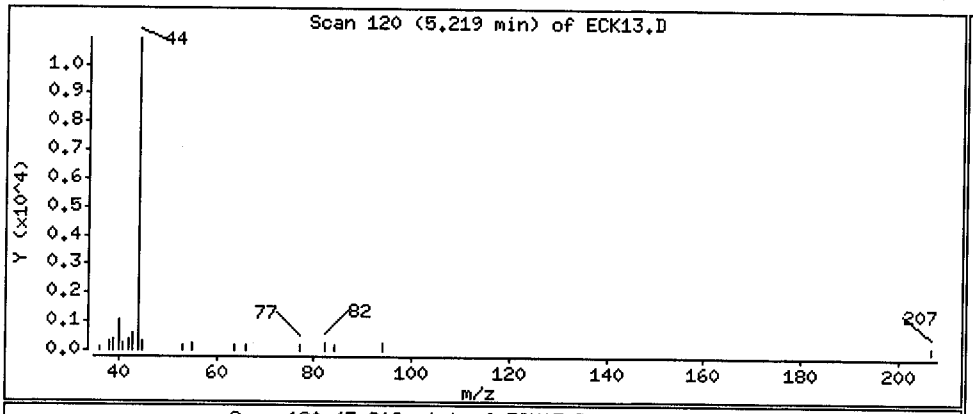
Operator: VOC

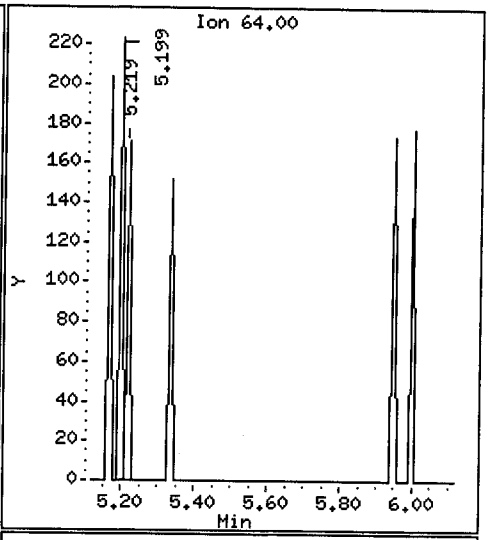
Column phase: RTX 624

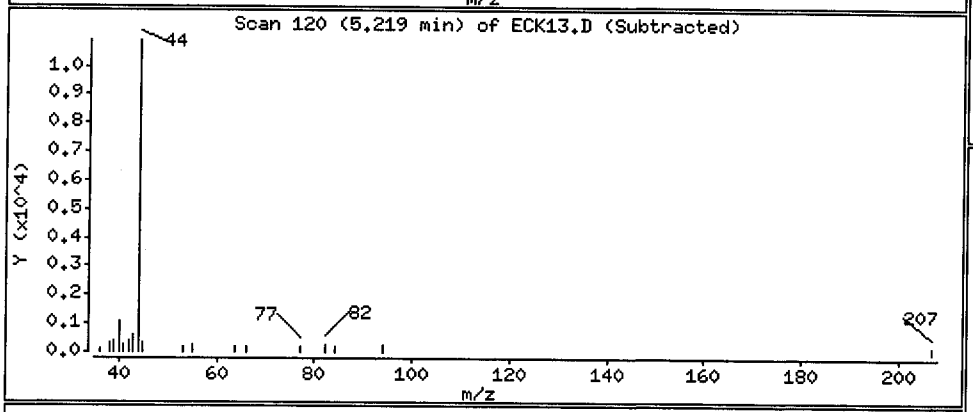
Column diameter: 0.25

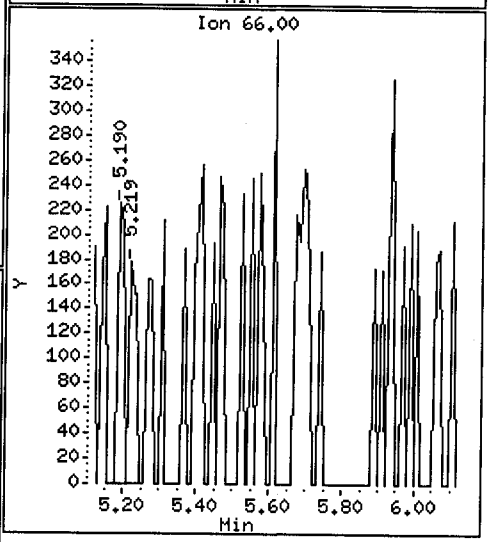
5 Chloroethane

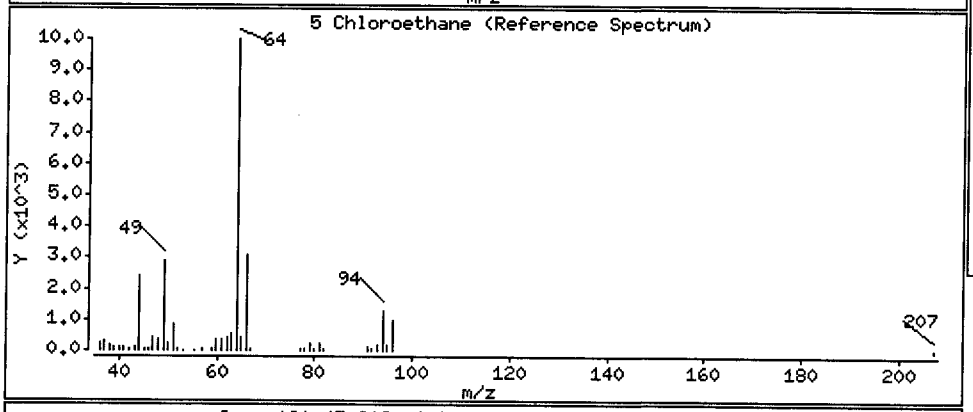
Concentration: 0.8133 UG/L

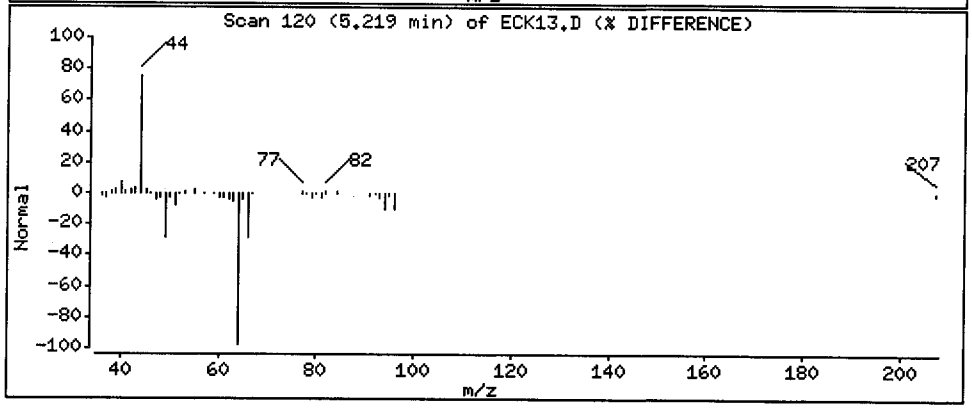












[Acetone; 5.7 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

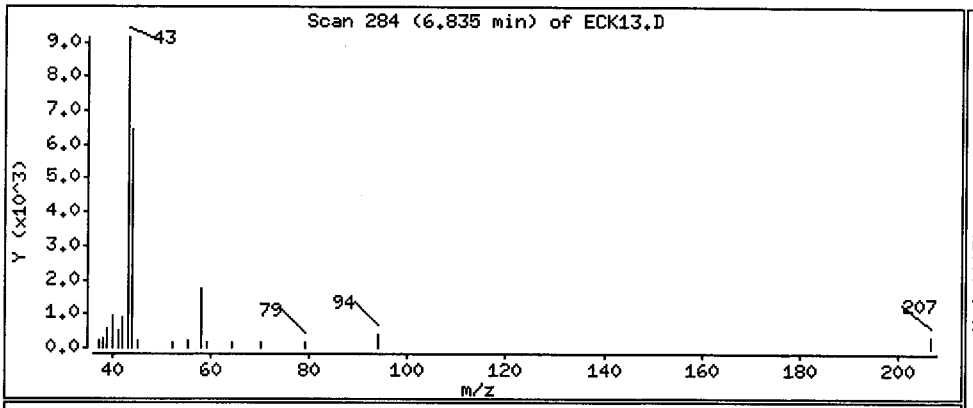
Operator: VOC

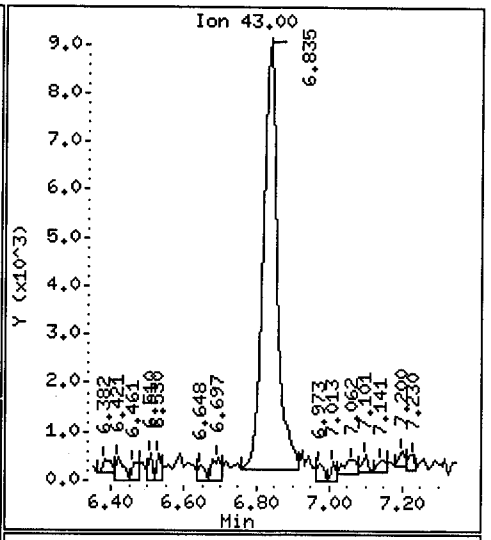
Column phase: RTX 624

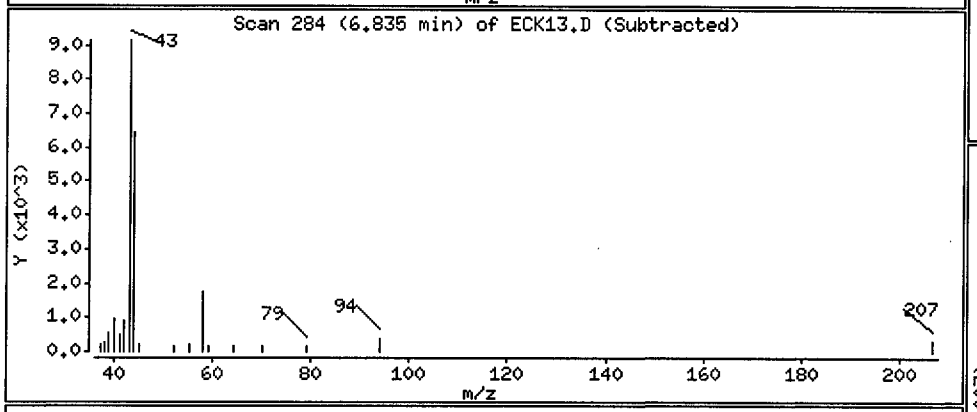
Column diameter: 0.25

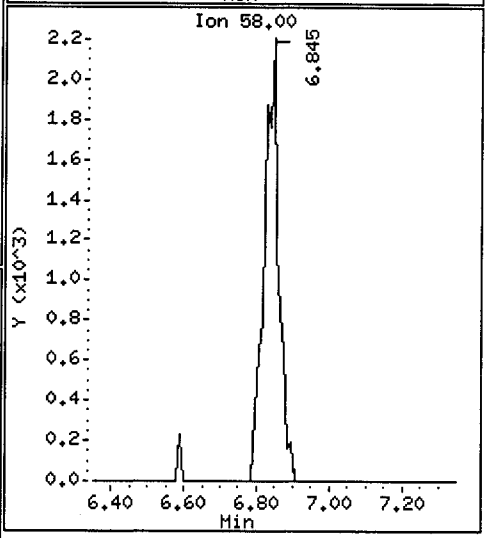
10 Acetone

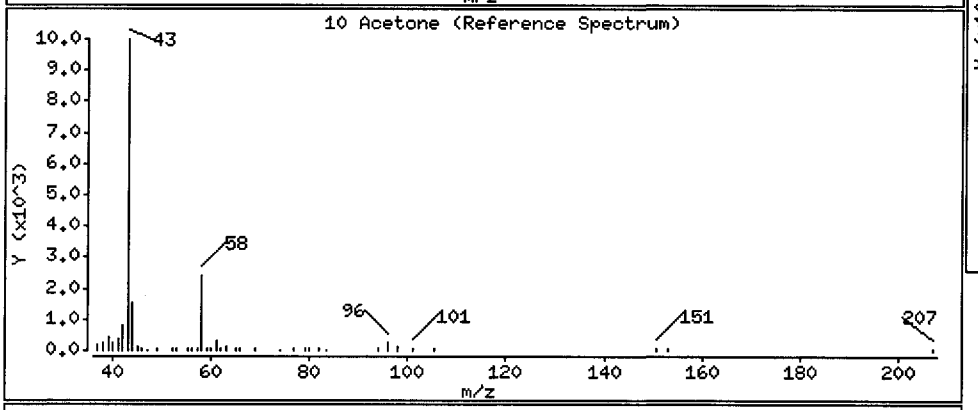
Concentration: 7.3243 UG/L

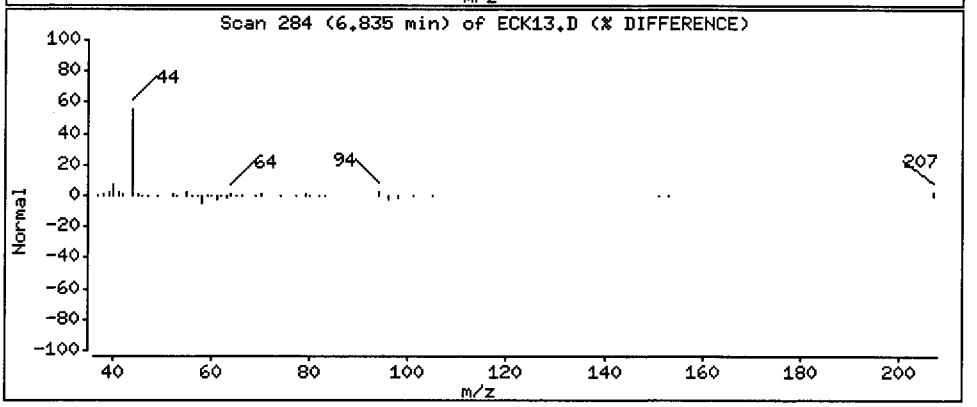












[Methylene Chloride; 1.3 J; MI; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

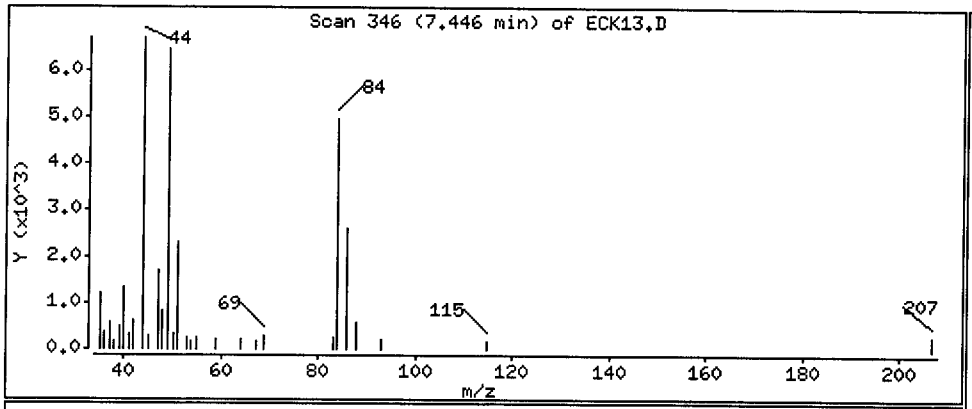
Operator: VOC

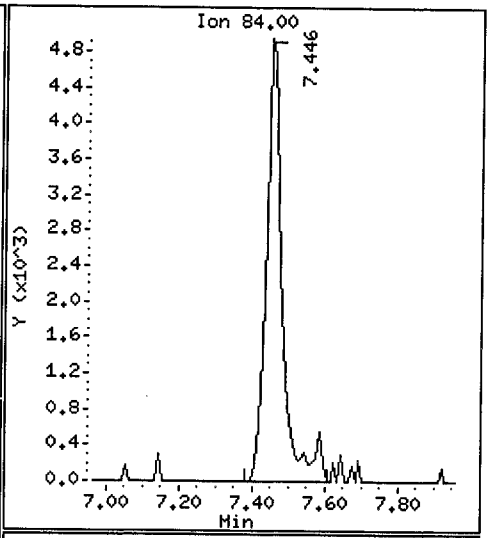
Column phase: RTX 624

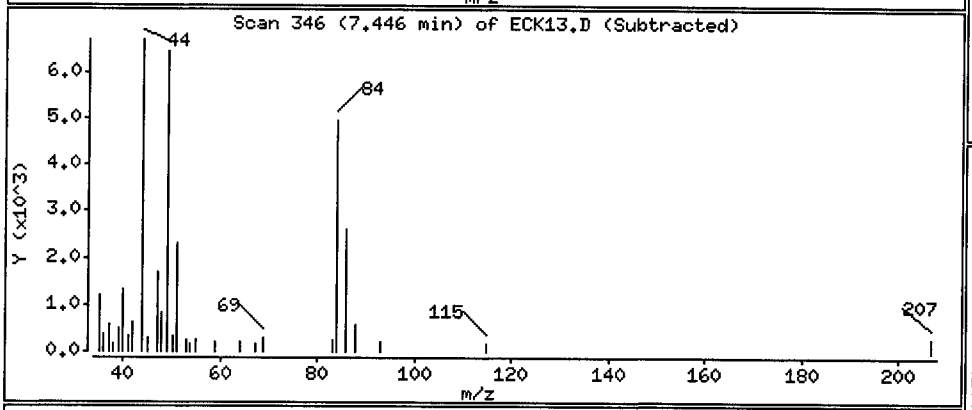
Column diameter: 0.25

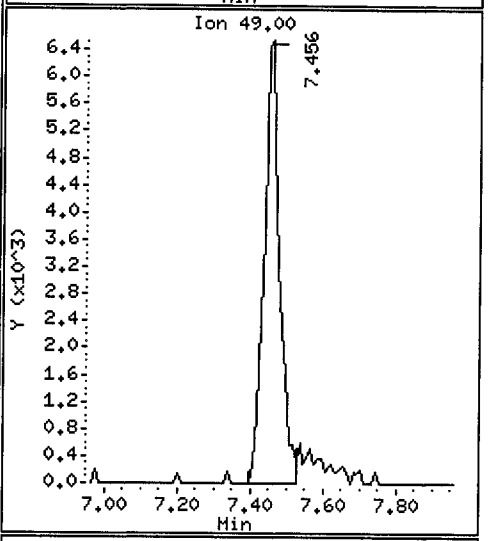
13 Methylene Chloride

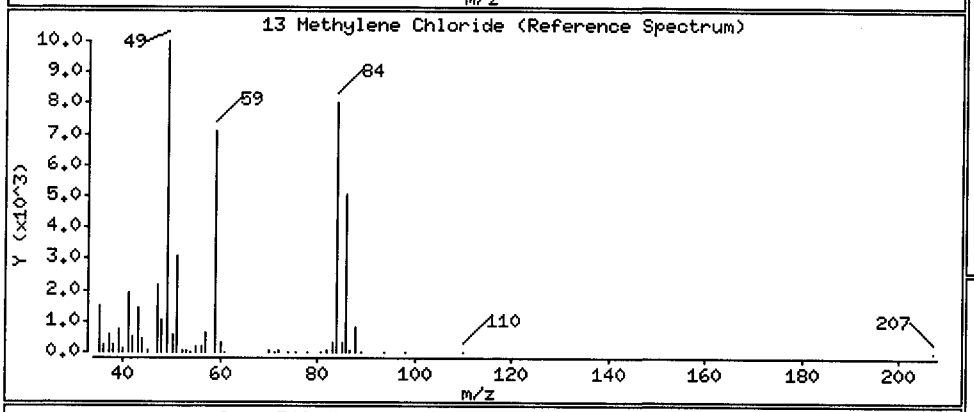
Concentration: 1.6054 UG/L

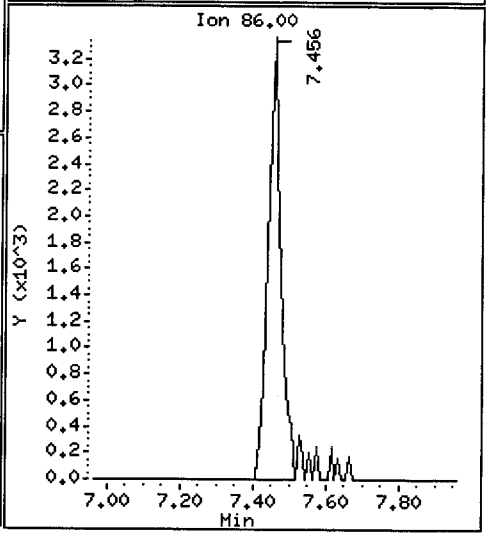


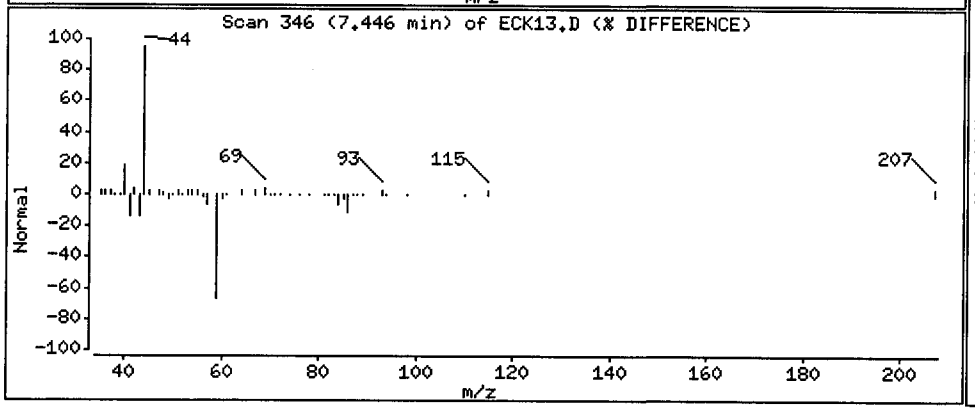












[Methylene Chloride; before version]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

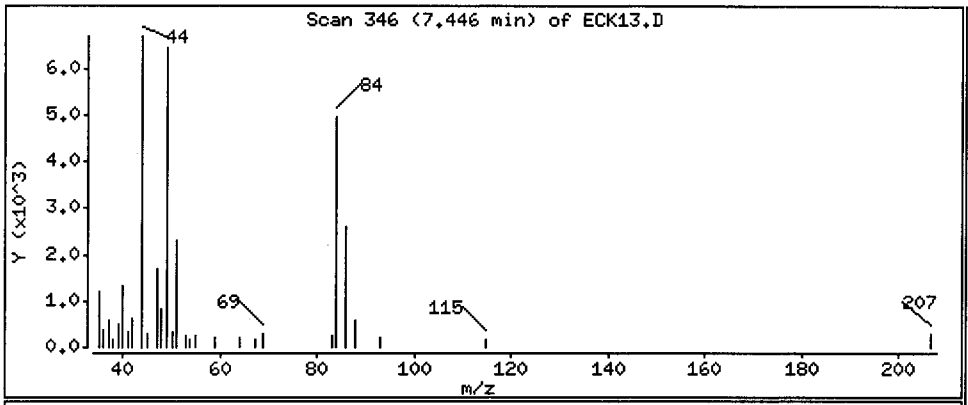
Operator: VOC

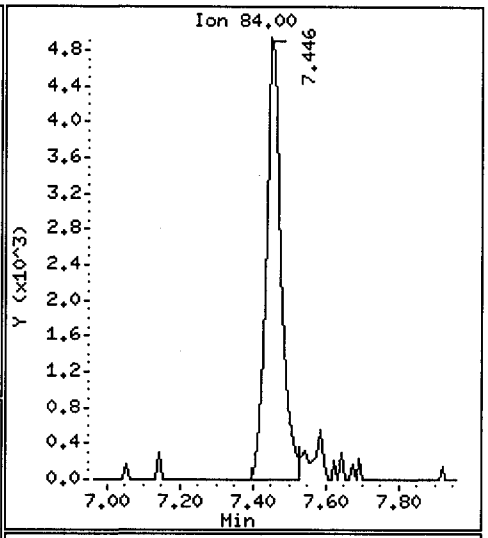
Column phase: RTX 624

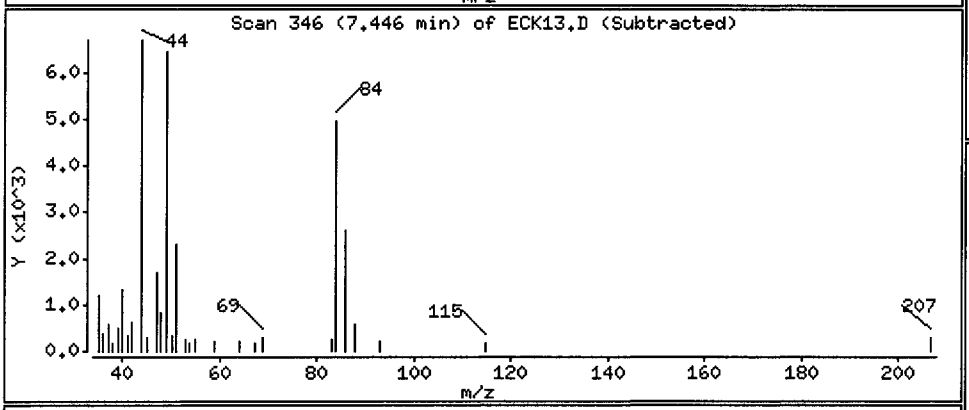
Column diameter: 0.25

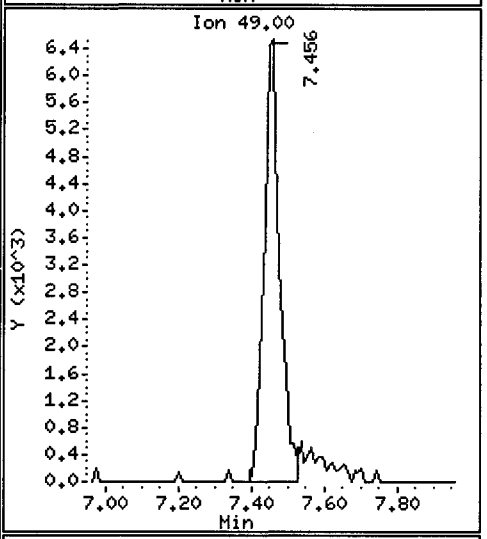
13 Methylene Chloride

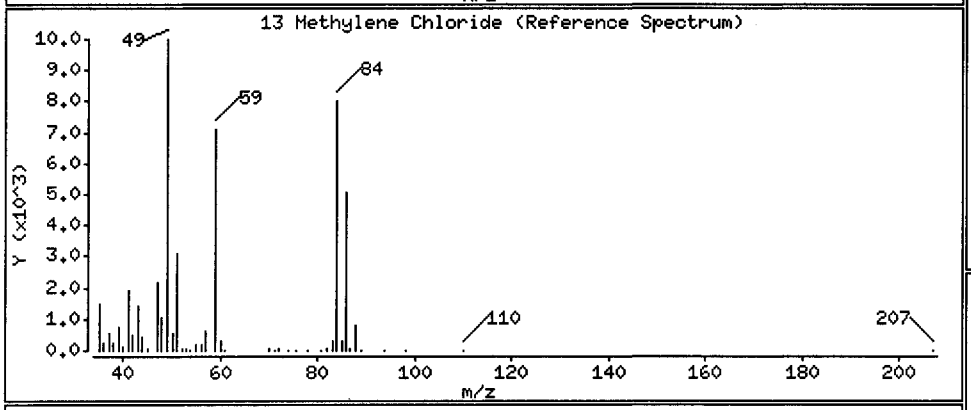
Concentration: 1.4841 UG/L

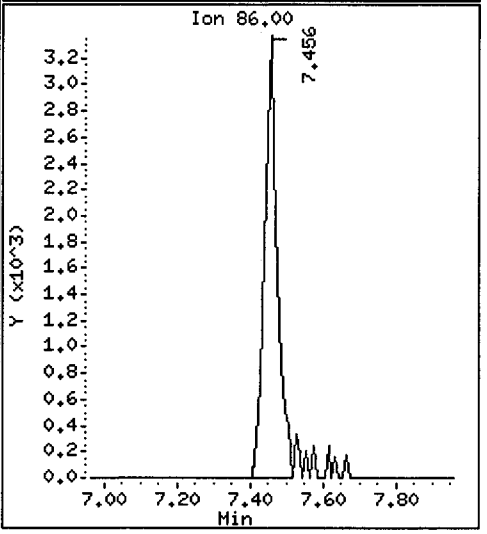


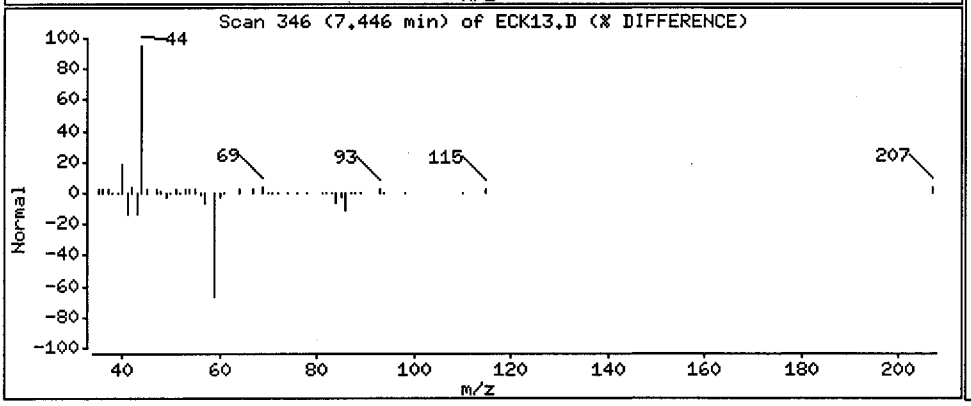












[2-Butanone; 1.3 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

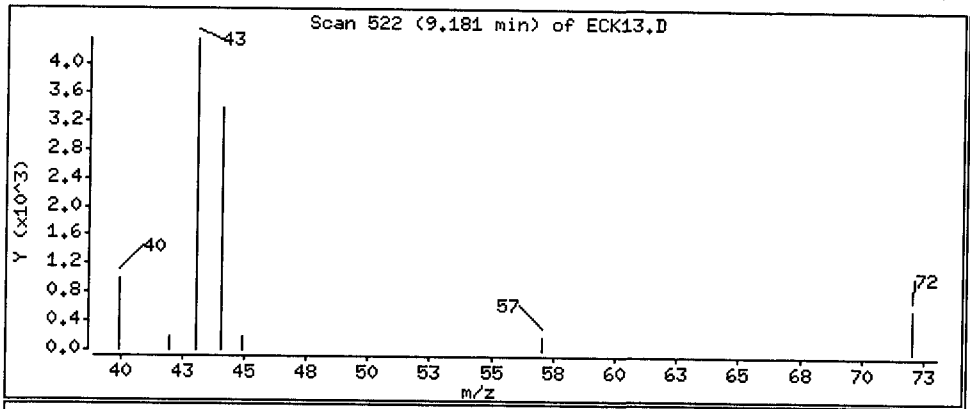
Operator: VOC

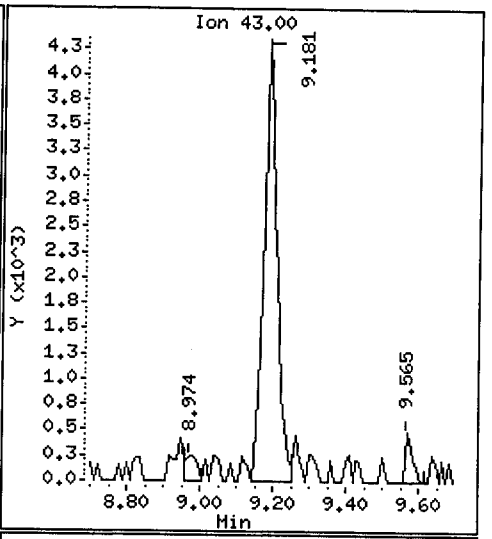
Column phase: RTX 624

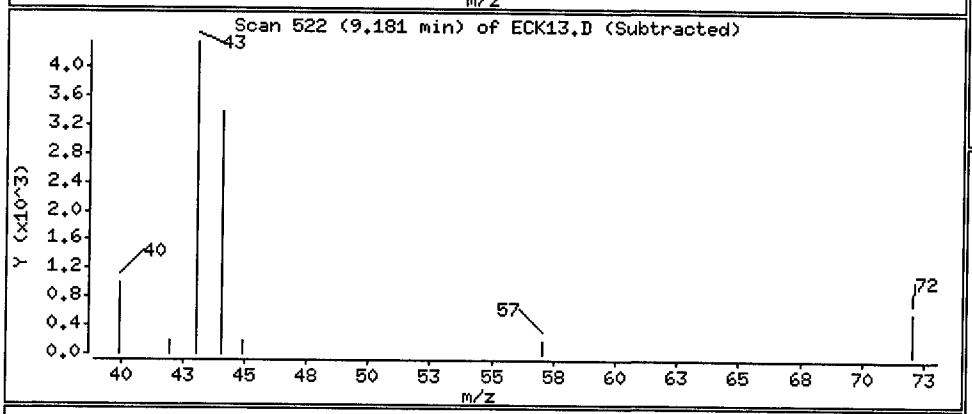
Column diameter: 0.25

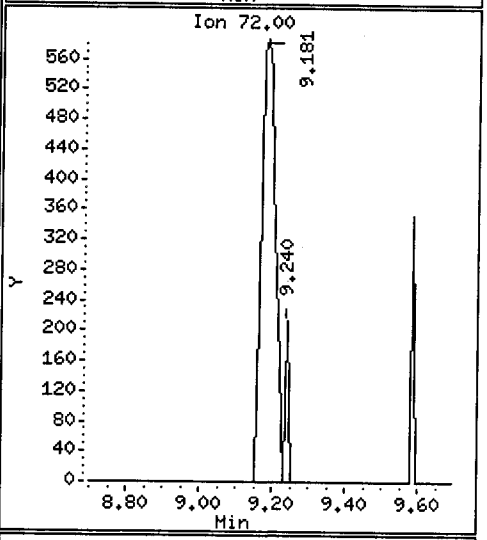
22 2-Butanone

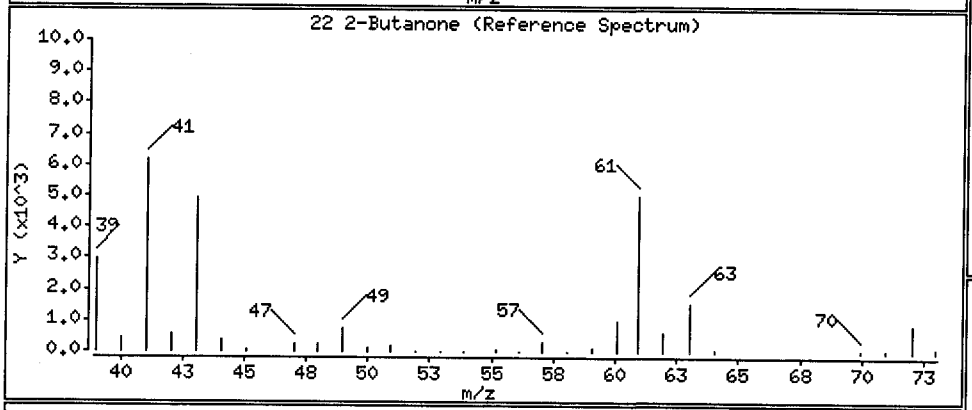
Concentration: 1.7191 UG/L

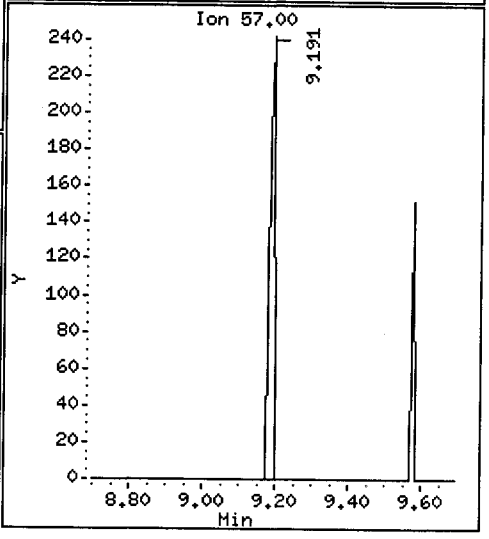


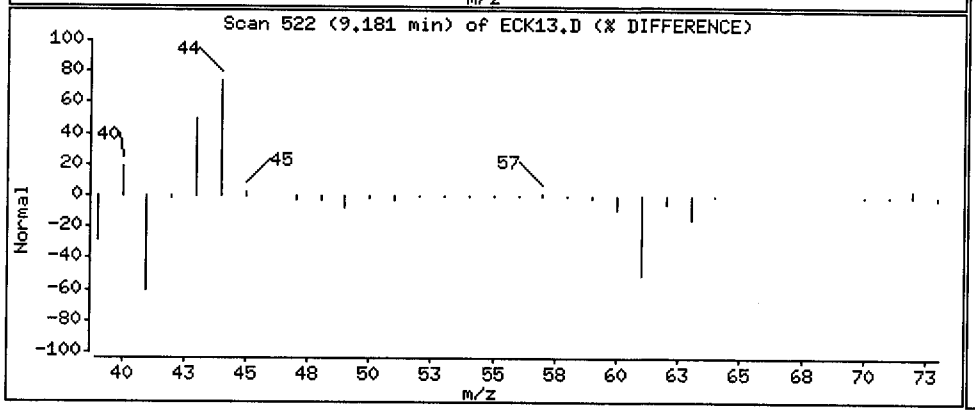












[Chloroform; 0.29 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

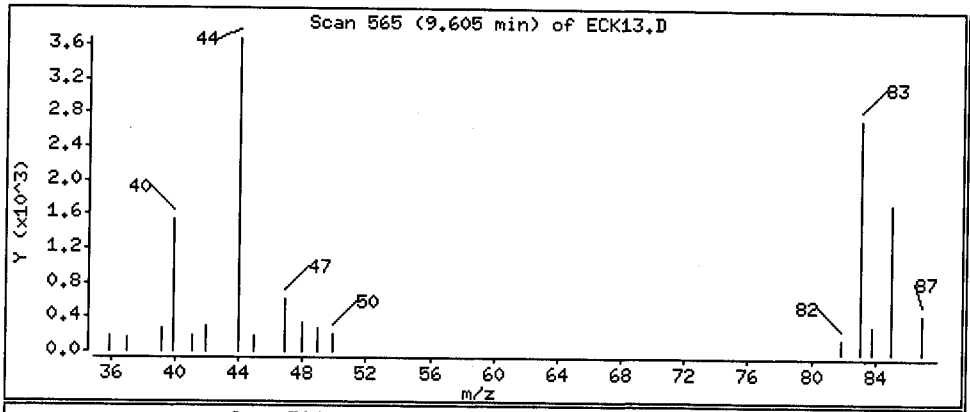
Operator: VOC

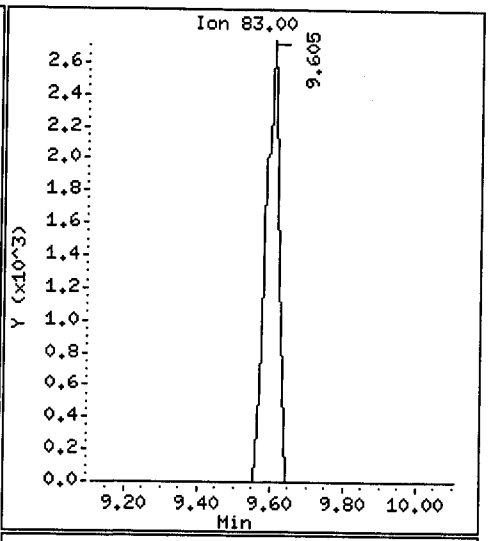
Column phase: RTX 624

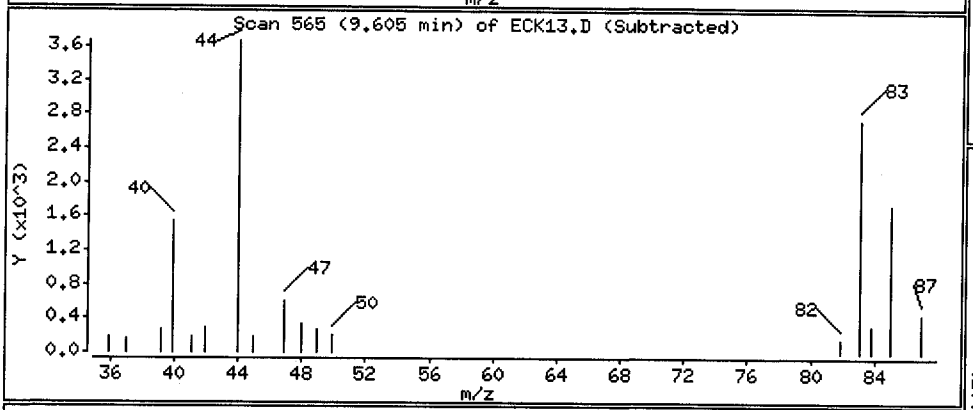
Column diameter: 0.25

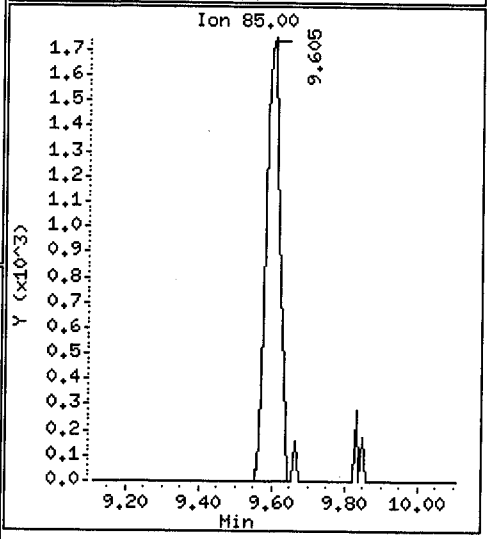
26 Chloroform

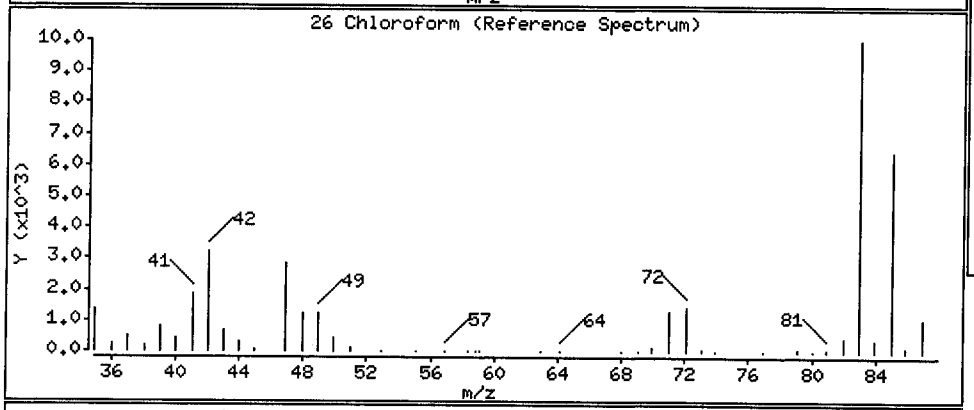
Concentration: 0.3711 UG/L

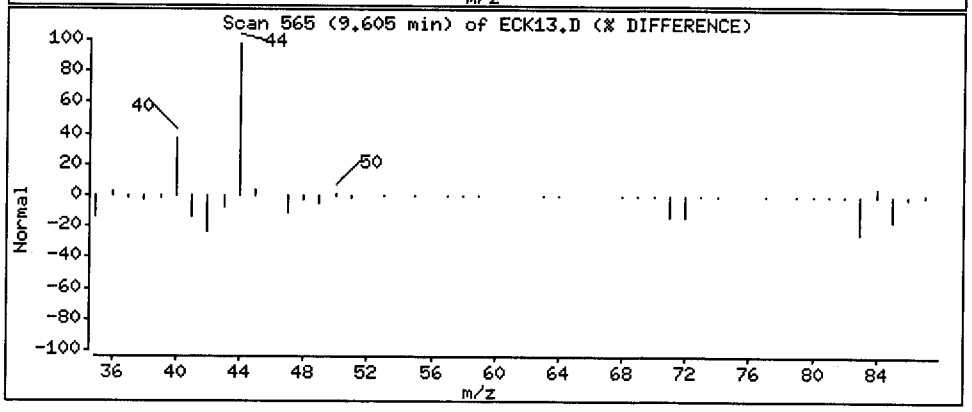












[Carbon Tetrachloride; 5.2; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

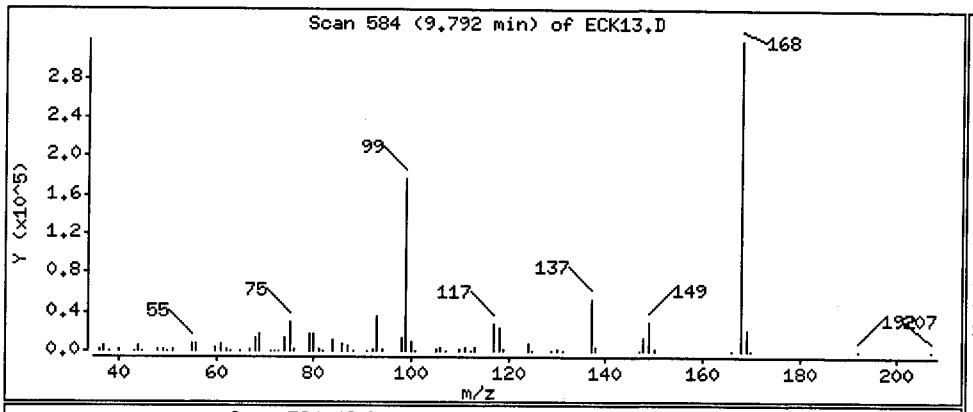
Operator: VOC

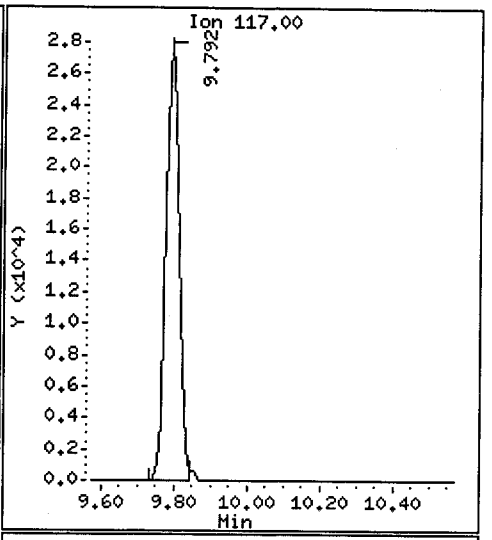
Column phase: RTX 624

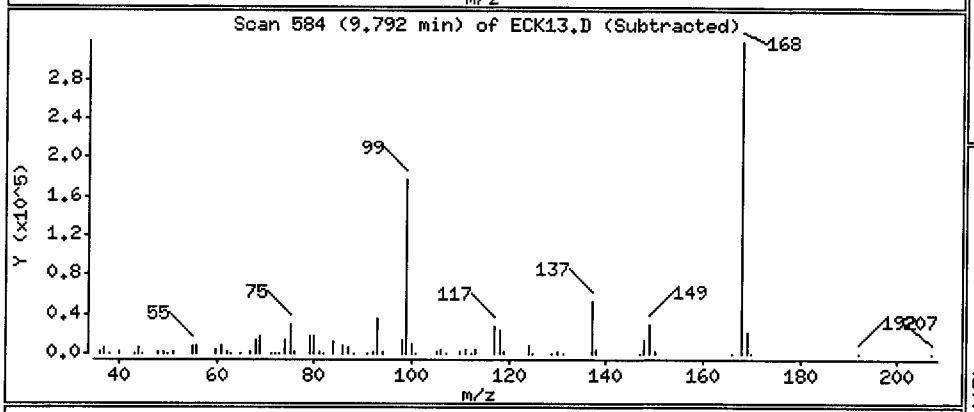
Column diameter: 0.25

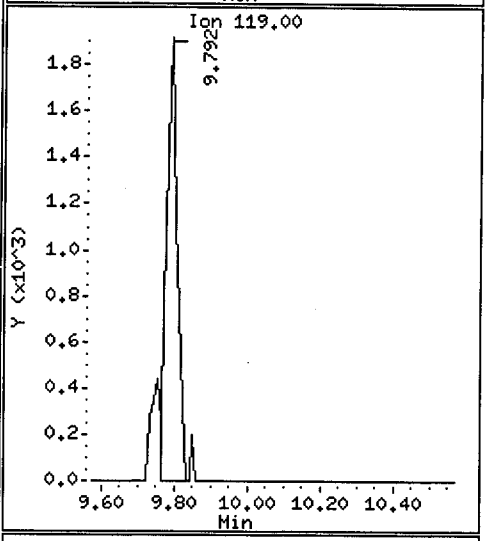
30 Carbon Tetrachloride

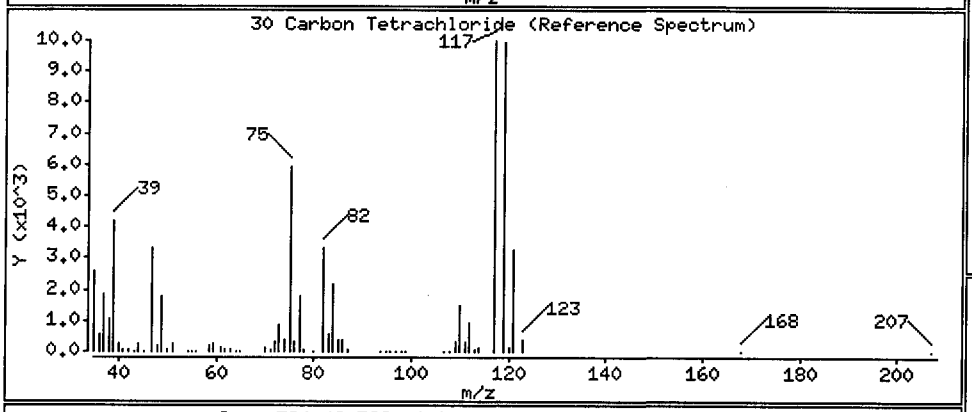
Concentration: 6.6026 UG/L

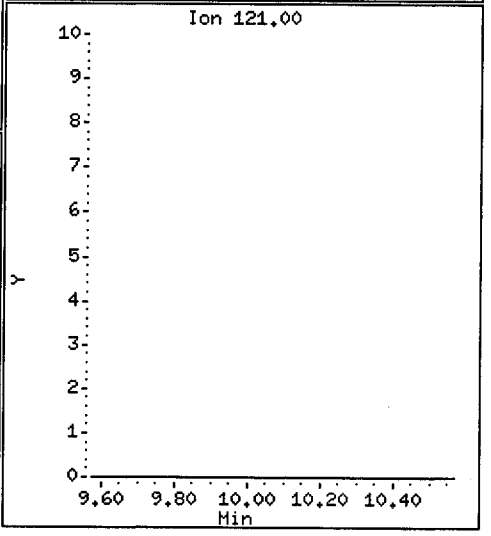


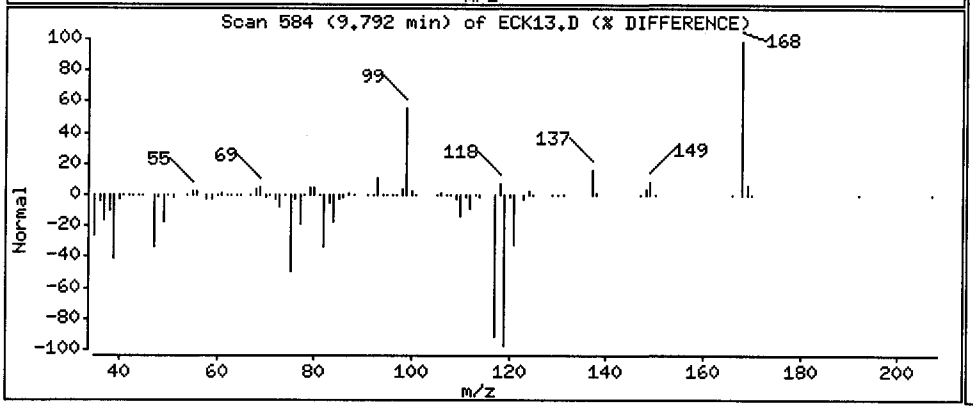












[1,1-Dichloropropene; 4.7; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

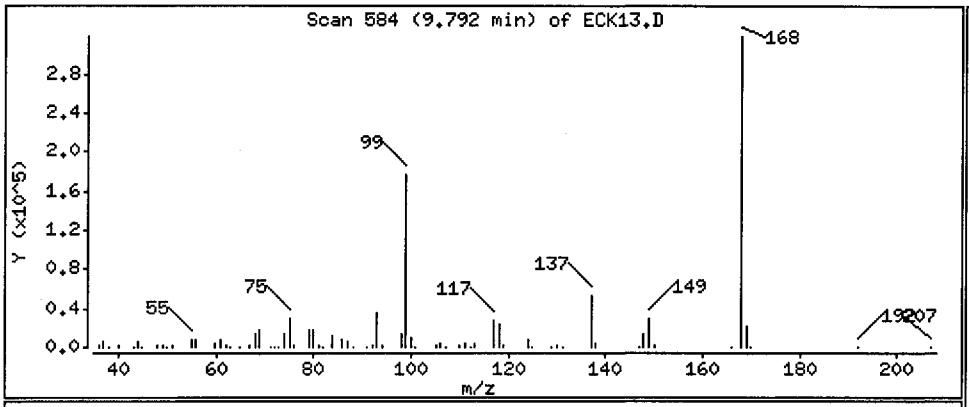
Operator: VOC

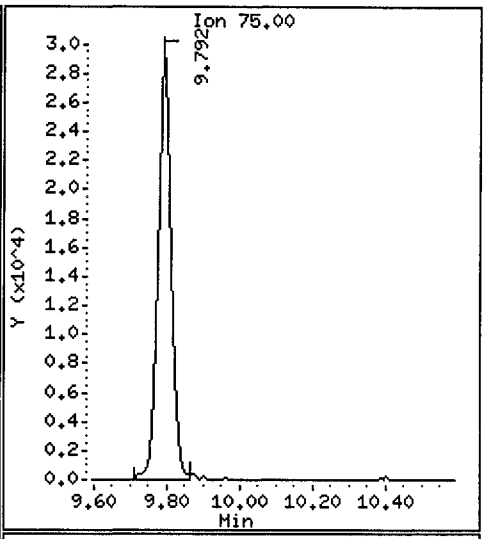
Column phase: RTX 624

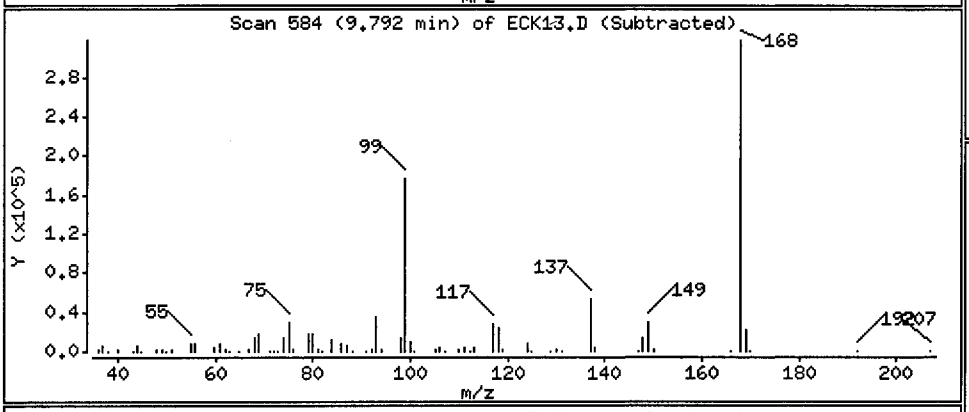
Column diameter: 0.25

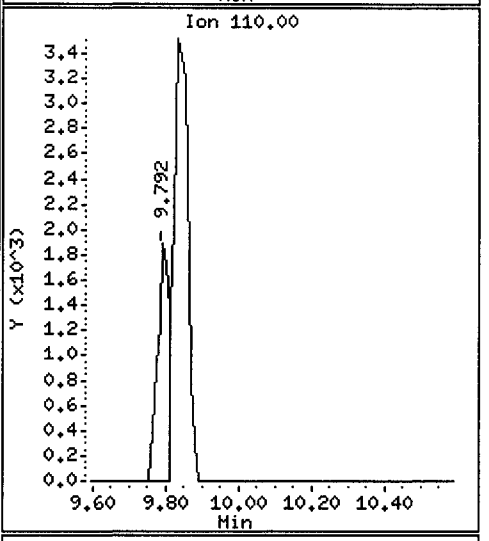
31 1,1-Dichloropropene

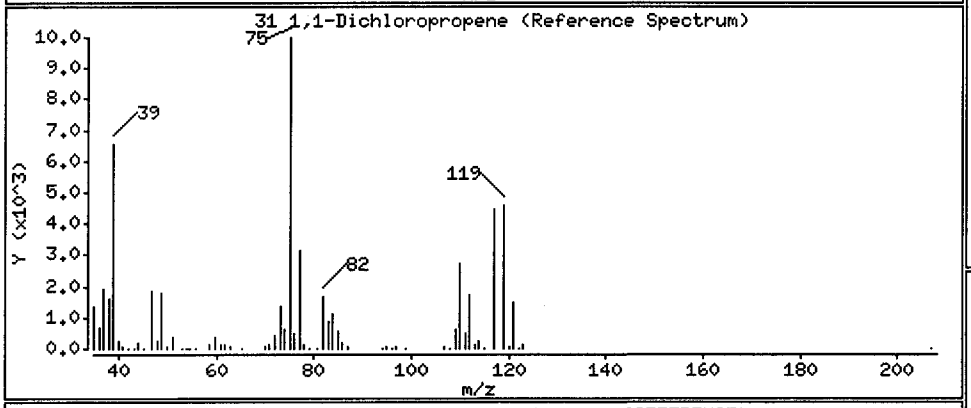
Concentration: 5.9954 UG/L

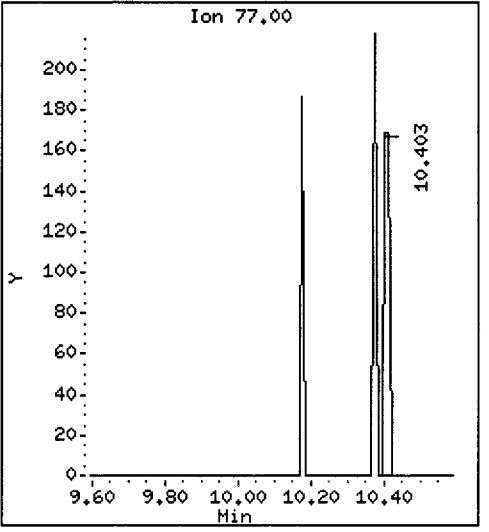


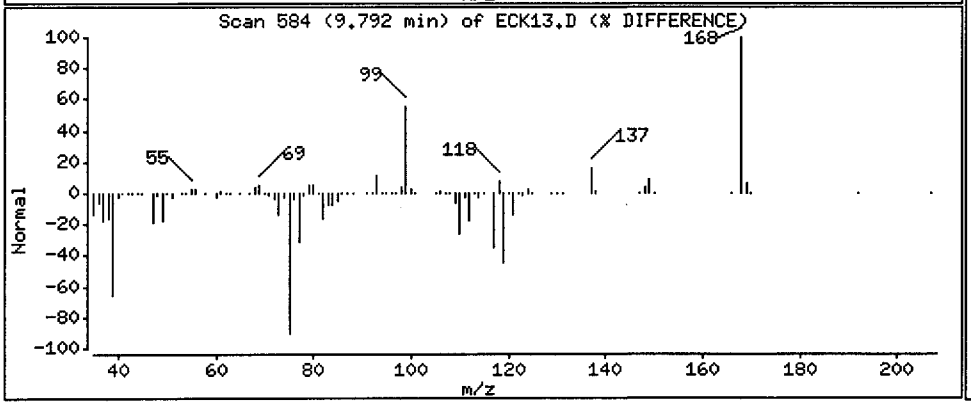












[1,2-Dichloroethane; 2.7 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

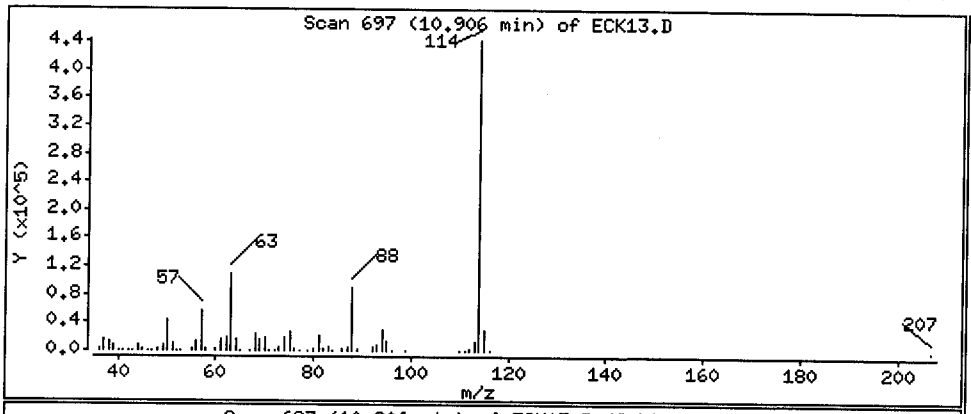
Operator: VOC

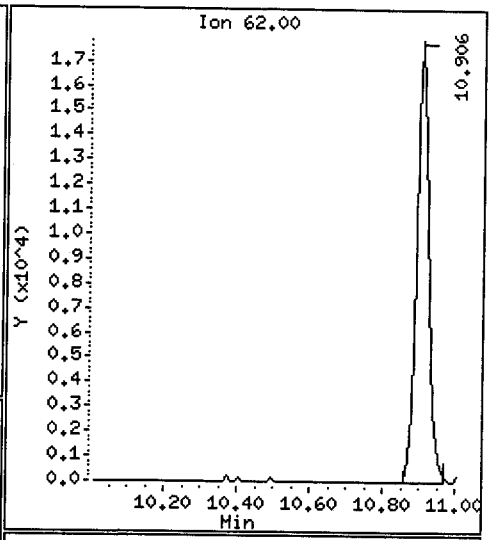
Column phase: RTX 624

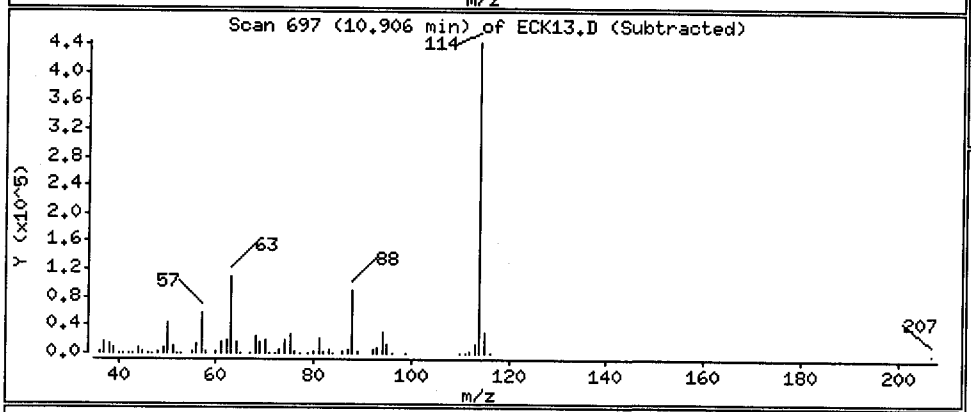
Column diameter: 0.25

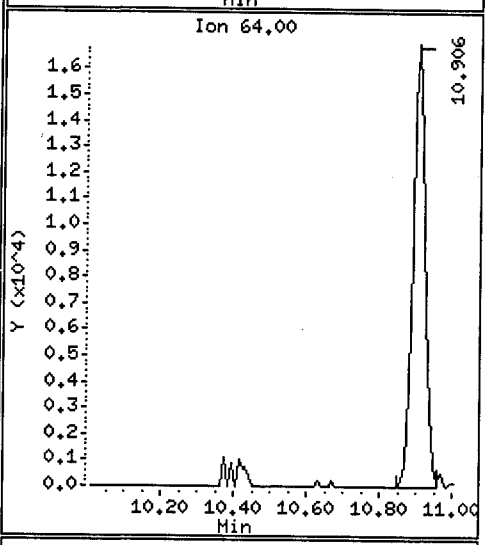
35 1,2-Dichloroethane

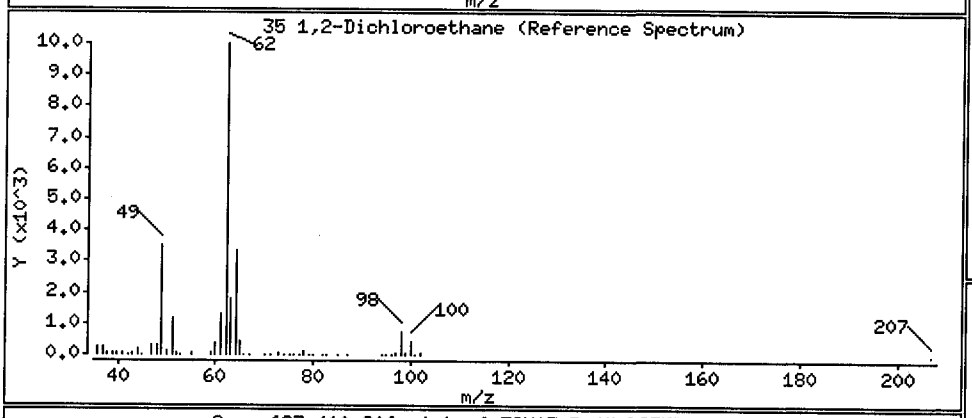
Concentration: 3.4142 UG/L

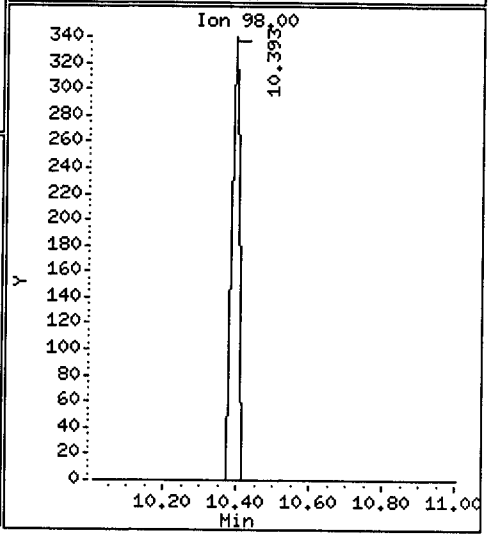


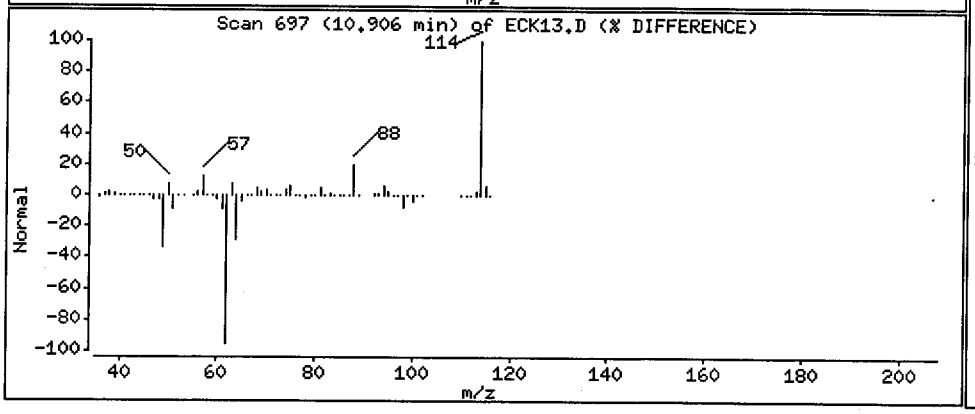












[Trichloroethene; 3.1 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

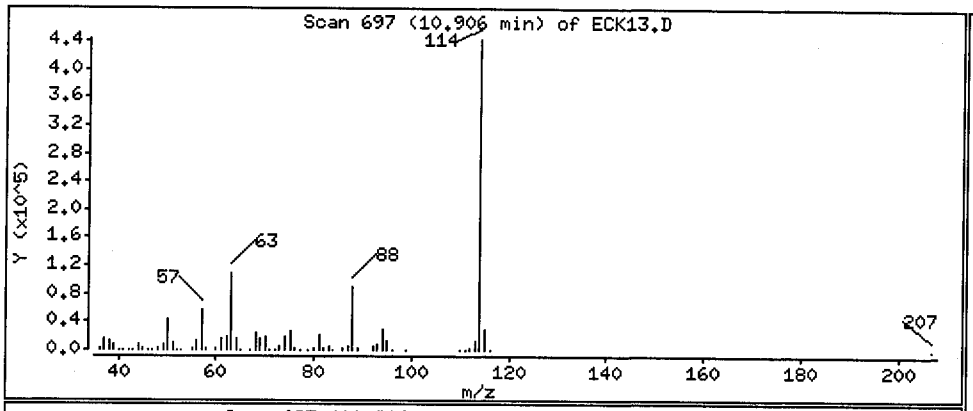
Operator: VOC

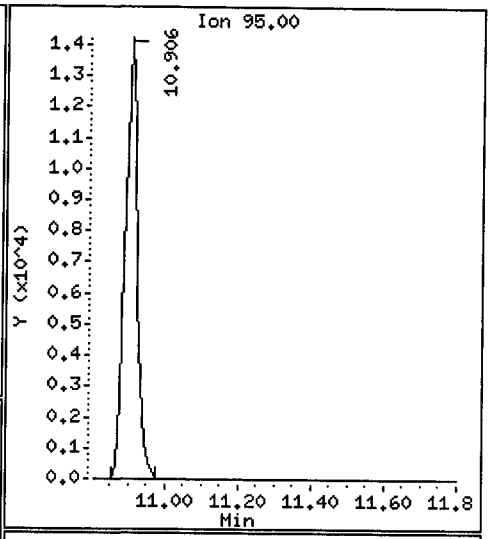
Column phase: RTX 624

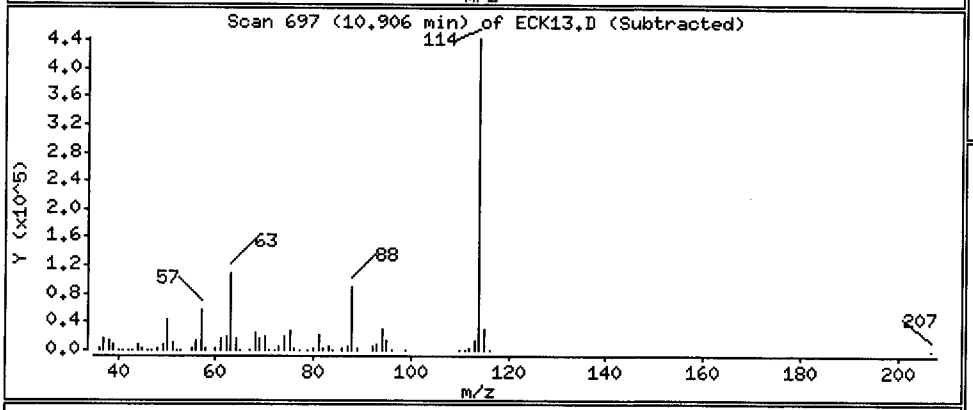
Column diameter: 0.25

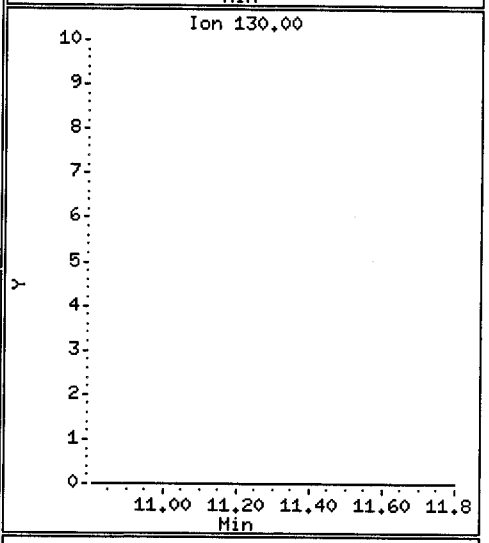
37 Trichloroethene

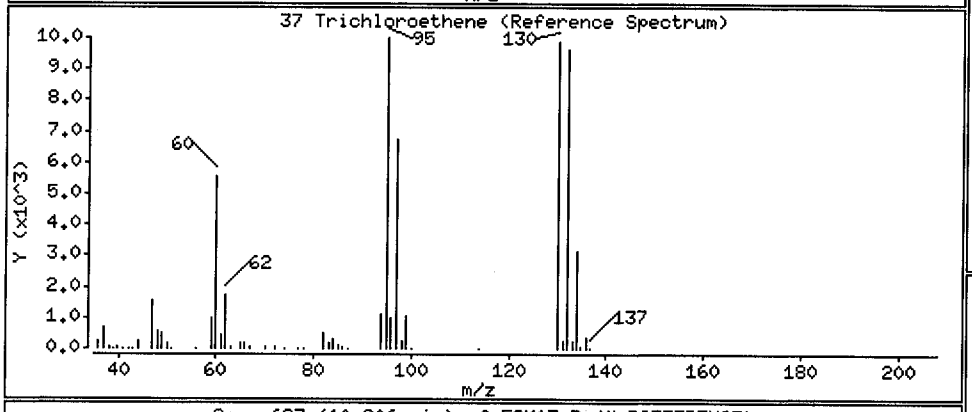
Concentration: 4.0146 UG/L

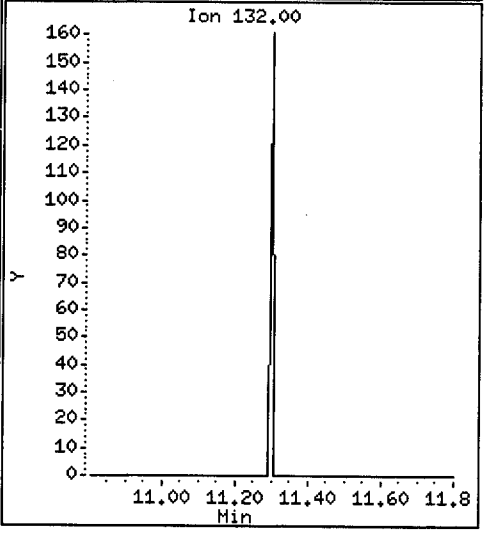


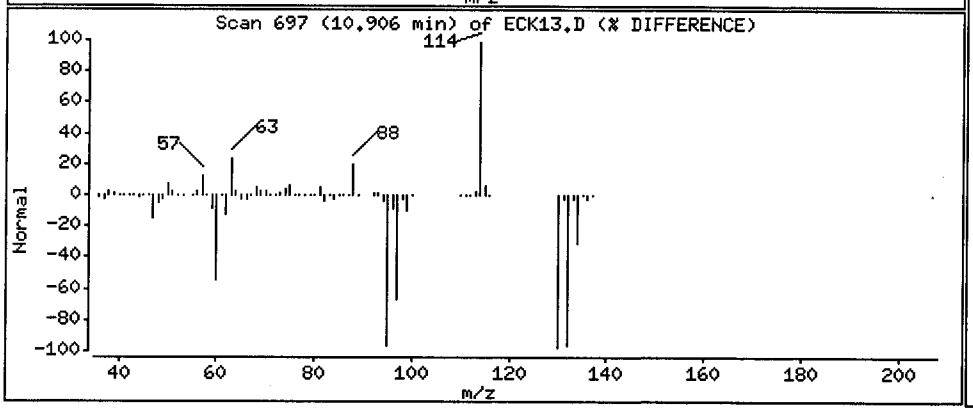












[4-Methyl-2-Pentanone; 0.79 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

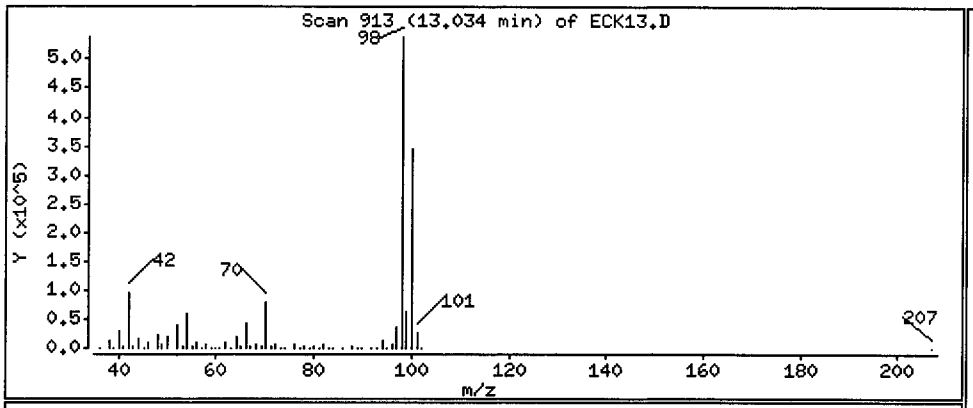
Operator: VOC

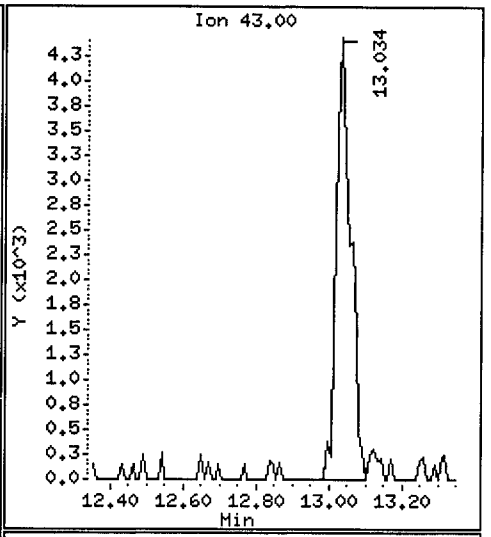
Column phase: RTX 624

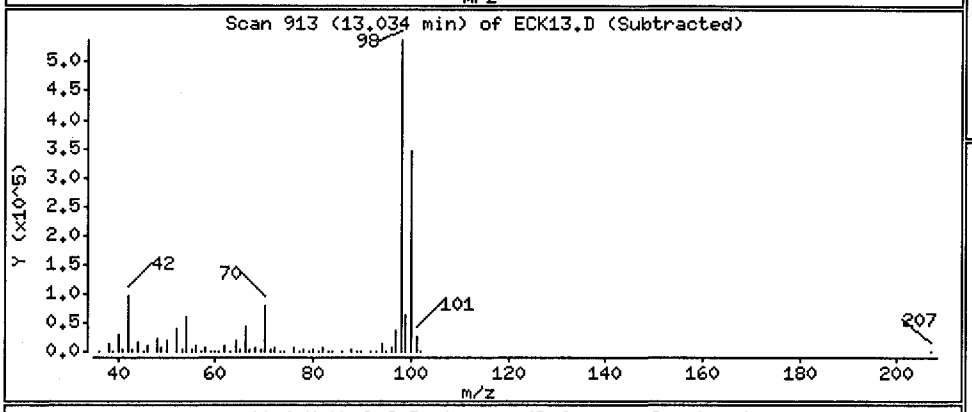
Column diameter: 0.25

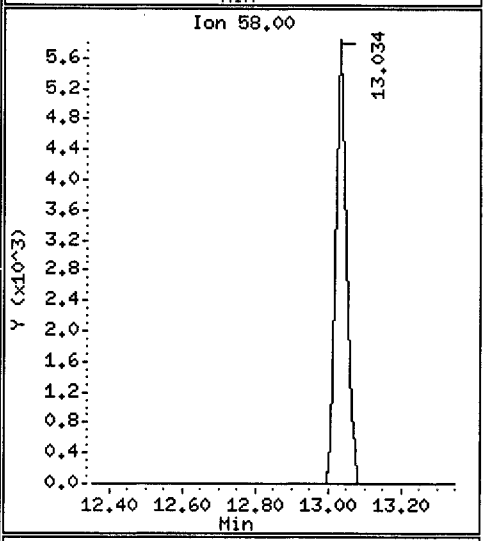
44 4-Methyl-2-Pentanone

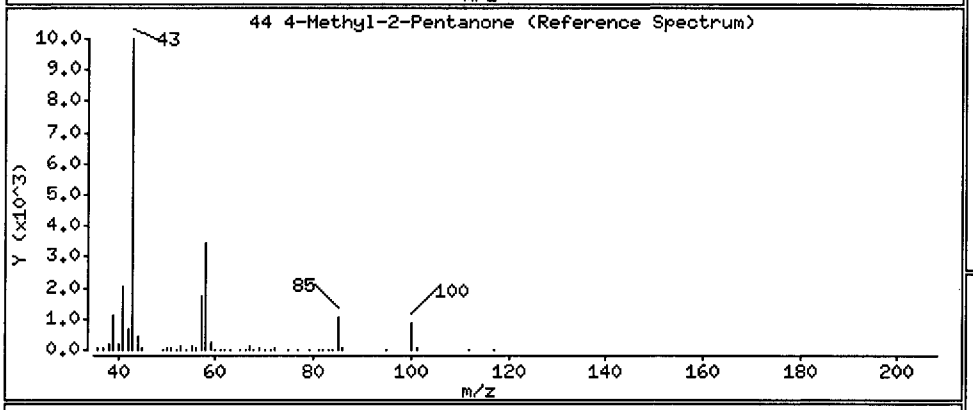
Concentration: 1.0106 UG/L

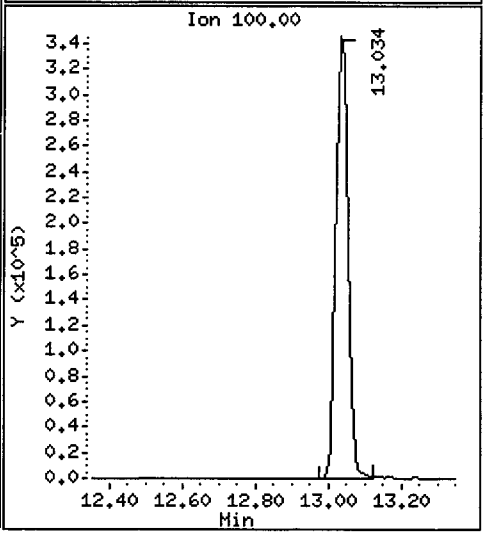


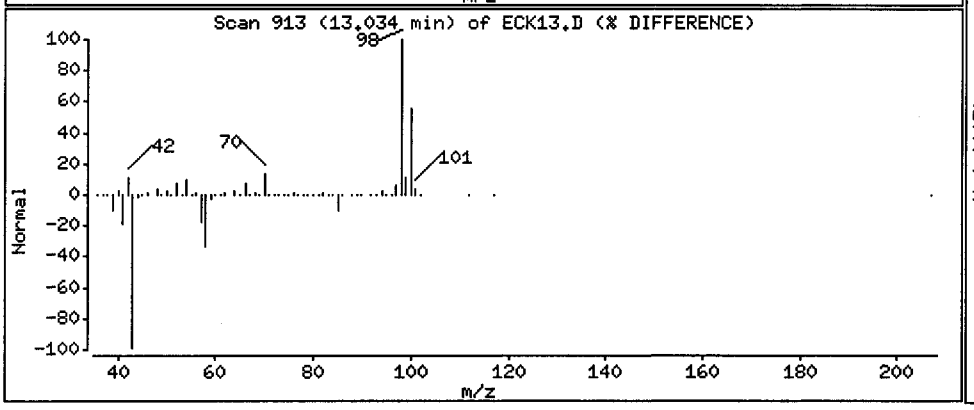












[Naphthalene; 0.74 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK13.D

Date : 20-MAR-2008 14:50

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MSS,202043-001

Purge Volume: 5.0

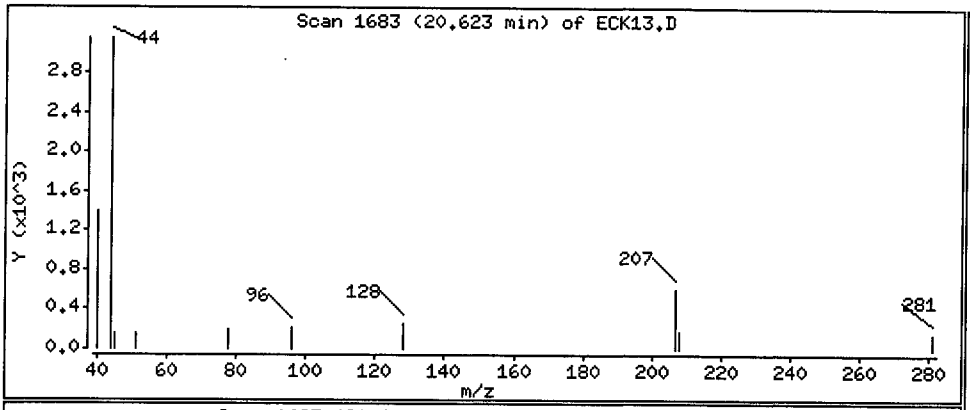
Operator: VOC

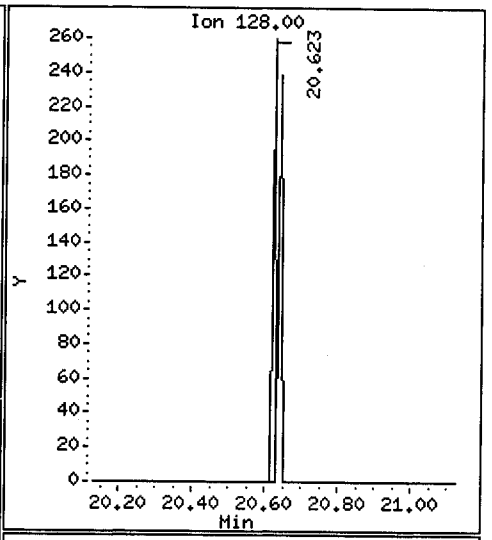
Column phase: RTX 624

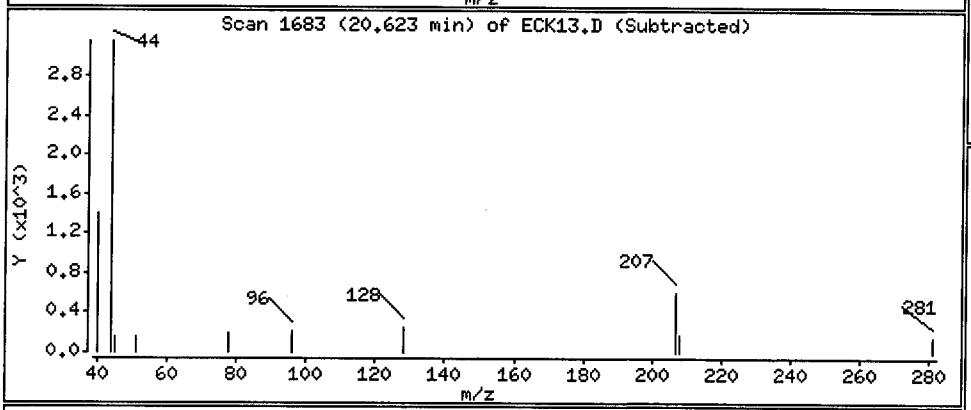
Column diameter: 0.25

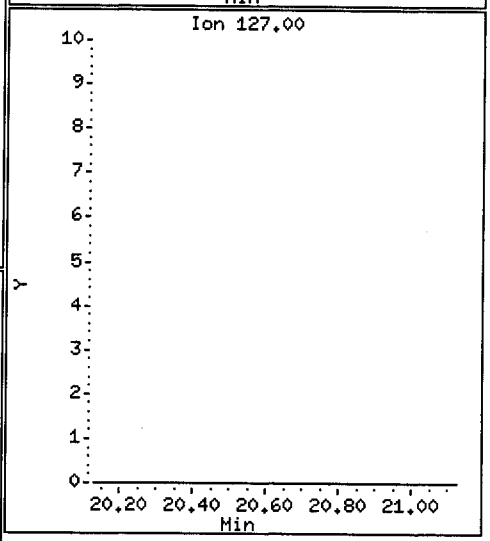
84 Naphthalene

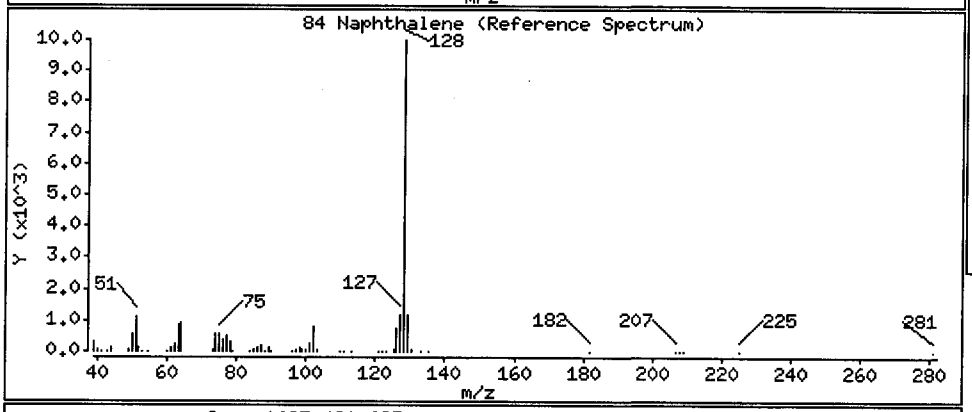
Concentration: 0.9452 UG/L

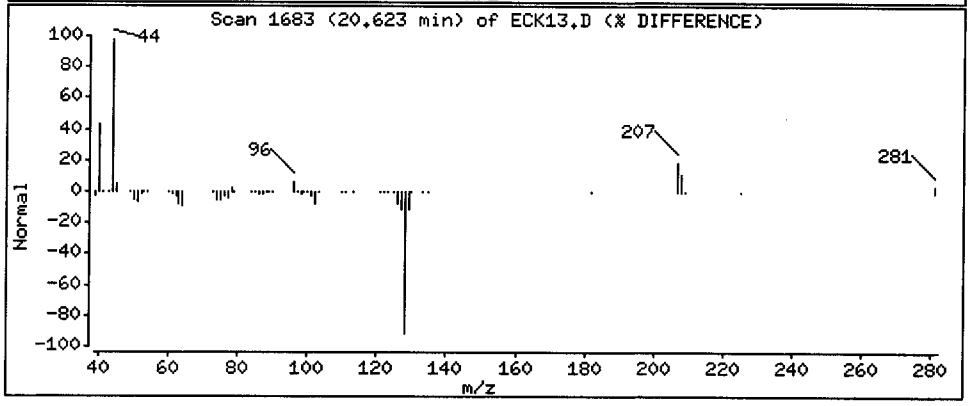












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst	: MSVOA05	Lab ID	: 202043-002	Client ID	: 1065EX308[6.0]
Seqnum	: 448115696014	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: eck14	Batch	: 136185	Time	: 20-MAR-2008 15:24
Cal	: 448110396001	Caldate	: 16-MAR-2008	Caltype	: SOIL
IDF	: 0.8772			Units	: ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	1.7 J		8.8		?curve+ u v- x
Chloromethane	ND		8.8		u
Vinyl Chloride	ND		8.8		u
Bromomethane	ND		8.8		c+ u
Chloroethane	0.71 J	0.267	8.8		?curve+ u x
Trichlorofluoromethane	ND		4.4		u v-
Acetone	17 J		18		u
Freon 113	ND		4.4		c- u
1,1-Dichloroethene	ND		4.4		u
Methylene Chloride	0.62 J		18	0.68	m u
Carbon Disulfide	ND		4.4		u
MTBE	ND		4.4		u
trans-1,2-Dichloroethene	ND		4.4		u
Vinyl Acetate	ND		44		u
1,1-Dichloroethane	ND		4.4		u
2-Butanone	3.4 J		8.8		u
cis-1,2-Dichloroethene	ND		4.4		u
2,2-Dichloropropane	ND		4.4		u
Chloroform	0.25 J		4.4		l u x
Bromochloromethane	ND		4.4		u
1,1,1-Trichloroethane	ND		4.4		u
1,1-Dichloropropene	5.3	-0.295	4.4		u x
Carbon Tetrachloride	5.9	-0.276	4.4		u x
1,2-Dichloroethane	0.36 J		4.4		u
Benzene	0.24 J		4.4		l u x
Trichloroethene	0.68 J	-0.058	4.4		u x
1,2-Dichloropropane	ND		4.4		u
Bromodichloromethane	3.9 J		4.4		l u x
Dibromomethane	ND		4.4		u
4-Methyl-2-Pentanone	11		8.8		l u x
cis-1,3-Dichloropropene	ND		4.4		u
Toluene	ND		4.4		u
trans-1,3-Dichloropropene	ND		4.4		u
1,1,2-Trichloroethane	12		4.4		l u x
2-Hexanone	0.72 J		8.8		l u x
1,3-Dichloropropane	ND		4.4		u
Tetrachloroethene	ND		4.4		u
Dibromochloromethane	ND		4.4		u
1,2-Dibromoethane	ND		4.4		u
Chlorobenzene	0.48 J		4.4		l u x
1,1,1,2-Tetrachloroethane	ND		4.4		u
Ethylbenzene	ND		4.4		u
m,p-Xylenes	1.1 J		4.4		u
o-Xylene	0.97 J	0.405	4.4		u x
Styrene	ND		4.4		u
Bromoform	ND		4.4		u
Isopropylbenzene	4.4 J		4.4		u
1,1,2,2-Tetrachloroethane	1.1 J		4.4		l u x
1,2,3-Trichloropropane	ND		4.4		u

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	6.4		4.4		u
Bromobenzene	ND		4.4		u
1,3,5-Trimethylbenzene	0.55 J		4.4		u
2-Chlorotoluene	ND		4.4		u
4-Chlorotoluene	0.65 J		4.4		l u x
tert-Butylbenzene	ND		4.4		u
1,2,4-Trimethylbenzene	ND		4.4		u
sec-Butylbenzene	3.7 J		4.4		u
para-Isopropyl Toluene	2.0 J		4.4		u
1,3-Dichlorobenzene	ND		4.4		u
1,4-Dichlorobenzene	ND		4.4		u
n-Butylbenzene	7.2		4.4		u
1,2-Dichlorobenzene	ND		4.4		u
1,2-Dibromo-3-Chloropropane	1.3 J		4.4		l u x
1,2,4-Trichlorobenzene	ND		4.4		u
Hexachlorobutadiene	ND		4.4		u
Naphthalene	2.3 J		4.4	1.7	u
1,2,3-Trichlorobenzene	ND		4.4	0.61	u

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	43.86	40.02	91	78-126	u
1,2-Dichloroethane-d4	43.86	46.37	106	76-137	u
Toluene-d8	43.86	45.43	104	80-120	u
Bromofluorobenzene	43.86	52.51	120	80-121	u

ISTD (ICAL ecg11)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	751961	833764	10.88	9.80	9.79	-0.01
1,4-Difluorobenzene	1093331	1137099	4.00	10.90	10.91	0.01
Chlorobenzene-d5	980726	966155	-1.49	15.00	15.01	0.01
1,4-Dichlorobenzene-d4	574120	535775	-6.68	17.72	17.73	0.01

BO 03/21/08 [Chloroform]: Spectrum does not confirm.

BO 03/21/08 [Benzene]: Spectrum does not confirm.

BO 03/21/08 [1,2-Dichloroethane]: 98 ion is from pentene

BO 03/21/08 [Bromodichloromethane]: Spectrum does not confirm.

BO 03/21/08 [4-Methyl-2-Pentanone]: Spectrum does not confirm.

BO 03/21/08 [1,1,2-Trichloroethane]: Spectrum does not confirm.

BO 03/21/08 [2-Hexanone]: Spectrum does not confirm.

BO 03/21/08 [Chlorobenzene]: Spectrum does not confirm.

BO 03/21/08 [1,1,2,2-Tetrachloroethane]: Spectrum does not confirm.

BO 03/21/08 [4-Chlorotoluene]: Spectrum does not confirm.

BO 03/21/08 [1,2-Dibromo-3-Chloropropane]: Spectrum does not confirm.

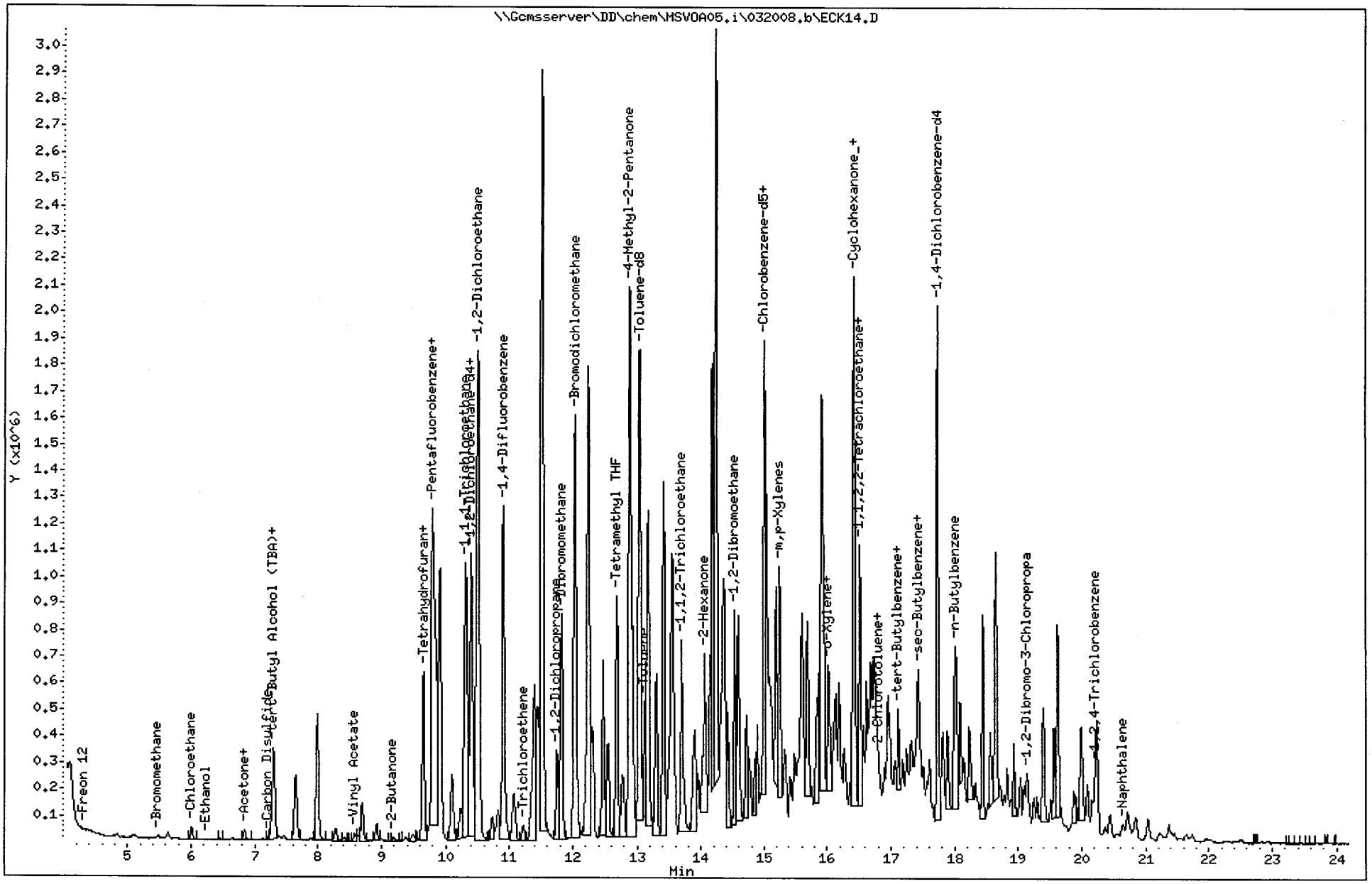
Analyst: BO Date: 03/21/08 Reviewer: MJD Date: 03/21/08

+=high bias -=low bias ?curve=check curve c=CCV l=false positive flag altered m=manual integration u=use v=ICV x=false positive

448115696014

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D
Date : 20-MAR-2008 15:24
Client ID: DYNA P&T
Sample Info: S,202043-002
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i
Operator: VOC
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D
Report Date: 21-Mar-2008 11:53

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 20-MAR-2008 15:24 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : S,202043-002
Misc Info : 136185,5.7/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1	Freon 12	85	4.303	4.339	(0.439)	250	1.92102	1.9210
4	Bromomethane	94	5.456	5.483	(0.557)	1010	0.99293	0.9929
5	Chloroethane	64	5.879	5.620	(0.600)	88	0.81085	0.8108
7	Ethanol	45	6.224	6.231	(0.636)	616	4.71248	4.7124(A)
10	Acetone	43	6.835	6.852	(0.698)	67672	19.6789	19.6788
11	Isopropanol	45	6.924	6.941	(0.707)	2261	2.86366	2.8636(A)
12	Carbon Disulfide	76	7.111	7.128	(0.726)	5126	0.16143	0.1614(a)
13	Methylene Chloride	84	7.456	7.463	(0.761)	7239	0.70935	0.7093(M)
14	tert-Butyl Alcohol (TBA)	59	7.466	7.483	(0.762)	1834	1.58927	1.5892(A)
18	Vinyl Acetate	43	8.590	8.359	(0.877)	15742	0.54365	0.5436
22	2-Butanone	43	9.181	9.198	(0.938)	26235	3.91401	3.9140
25	Tetrahydrofuran	42	9.575	9.572	(0.978)	620	0.16544	0.1654(aA)
26	Chloroform	83	9.605	9.612	(0.981)	5744	0.28191	0.2819(a)
* 27	Pentafluorobenzene	168	9.792	9.799	(1.000)	833764	50.0000	
28	Dibromofluoromethane	113	9.841	9.848	(1.005)	460108	45.6195	45.6194
29	1,1,1-Trichloroethane	97	10.314	9.878	(1.053)	3335	0.24495	0.2449(a)
30	Carbon Tetrachloride	117	9.792	10.075	(0.898)	72368	6.72435	6.7243
31	1,1-Dichloropropene	75	9.792	10.094	(0.898)	80925	6.05619	6.0561
32	1,2-Dichloroethane-d4	65	10.383	10.400	(0.952)	553578	52.8565	52.8565
33	Benzene	78	10.403	10.400	(0.954)	10114	0.27312	0.2731(a)
35	1,2-Dichloroethane	62	10.492	10.508	(0.962)	5232	0.40470	0.4047(a)
* 36	1,4-Difluorobenzene	114	10.905	10.912	(1.000)	1137099	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D
Report Date: 21-Mar-2008 11:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	37 Trichloroethene	95	11.241	11.307	(1.031)	6780	0.77112	0.7711
	39 1,2-Dichloropropane	63	11.763	11.730	(1.079)	2076	0.18732	0.1873(a)
	40 Dibromomethane	93	11.822	11.928	(1.084)	1539	0.23037	0.2303(a)
	41 Bromodichloromethane	83	12.039	12.086	(1.104)	60621	4.39815	4.3981
	42 Tetramethyl THF	43	12.689	12.657	(1.164)	141560	5.94181	5.9418(A)
	44 4-Methyl-2-Pentanone	43	12.886	12.854	(1.182)	148692	12.0252	12.0251
	45 Toluene-d8	98	13.034	13.041	(1.195)	1291830	51.7918	51.7918
	46 Toluene	92	13.133	13.140	(1.204)	2712	0.14283	0.1428(a)
	48 1,1,2-Trichloroethane	85	13.704	13.751	(1.257)	66362	13.6582	13.6582
	50 2-Hexanone	43	14.010	13.977	(0.934)	7032	0.81793	0.8179
	53 1,2-Dibromoethane	107	14.542	14.481	(1.333)	986	0.12523	0.1252(a)
*	54 Chlorobenzene-d5	117	15.005	15.012	(1.000)	966155	50.0000	
	55 Chlorobenzene	112	15.035	15.052	(1.002)	10232	0.54438	0.5443
	56 Ethylbenzene	91	15.094	15.101	(1.006)	12794	0.36437	0.3643(a)
	58 m,p-Xylenes	106	15.232	15.239	(1.015)	13711	1.20982	1.2098
	59 o-Xylene	106	16.148	15.742	(1.076)	12725	1.10192	1.1019
	60 Styrene	104	16.139	15.772	(1.076)	4449	0.22041	0.2204(a)
	62 Isopropylbenzene	105	16.139	16.146	(0.910)	142960	4.98793	4.9879
	63 Cyclohexanone_	55	16.434	16.402	(0.927)	92260	64.3624	64.3624(A)
	64 Bromofluorobenzene	95	16.415	16.421	(0.926)	615554	59.8669	59.8669
	65 1,1,2,2-Tetrachloroethane	83	16.592	16.569	(0.936)	13874	1.20985	1.2098
	66 Propylbenzene	91	16.621	16.619	(0.938)	275616	7.26671	7.2667
	68 1,2,3-Trichloropropane	75	16.621	16.658	(0.938)	2143	0.24483	0.2448(a)
	69 2-Chlorotoluene	91	16.799	16.806	(0.948)	4988	0.20009	0.2000(a)
	70 1,3,5-Trimethylbenzene	105	16.809	16.806	(0.948)	13980	0.62835	0.6283
	71 4-Chlorotoluene	91	16.937	16.924	(0.956)	16512	0.73684	0.7368
	72 tert-Butylbenzene	119	17.173	17.180	(0.969)	6867	0.36081	0.3608(a)
	73 1,2,4-Trimethylbenzene	105	17.242	17.239	(0.973)	5490	0.26216	0.2621(a)
	74 sec-Butylbenzene	105	17.420	17.417	(0.983)	127572	4.22498	4.2249
	75 para-Isopropyl Toluene	119	17.558	17.565	(0.991)	51055	2.26542	2.2654
*	77 1,4-Dichlorobenzene-d4	152	17.725	17.732	(1.000)	535775	50.0000	
	79 n-Butylbenzene	91	18.021	18.028	(1.017)	185858	8.23636	8.2363
	81 1,2-Dibromo-3-Chloropropane	75	19.144	19.162	(1.080)	2725	1.44085	1.4408
	82 1,2,4-Trichlorobenzene	180	20.209	20.226	(1.140)	631	0.15301	0.1530(a)
	84 Naphthalene	128	20.633	20.630	(1.164)	20090	2.65181	2.6518

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

[Freon 12; 1.7 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

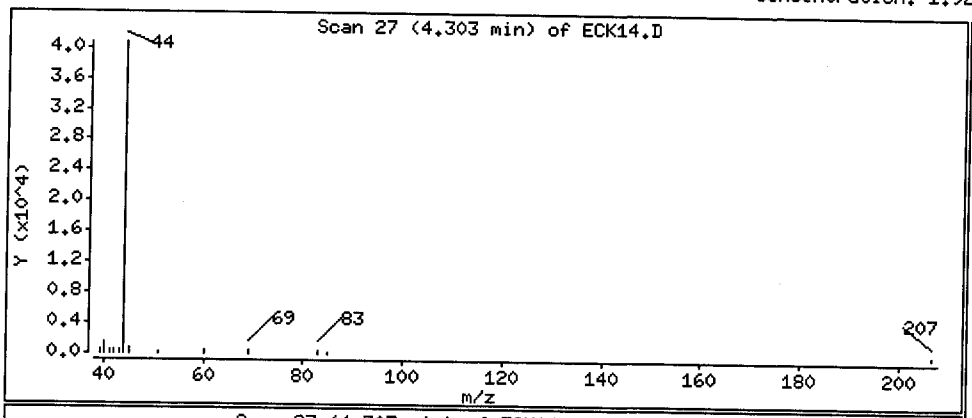
Operator: VOC

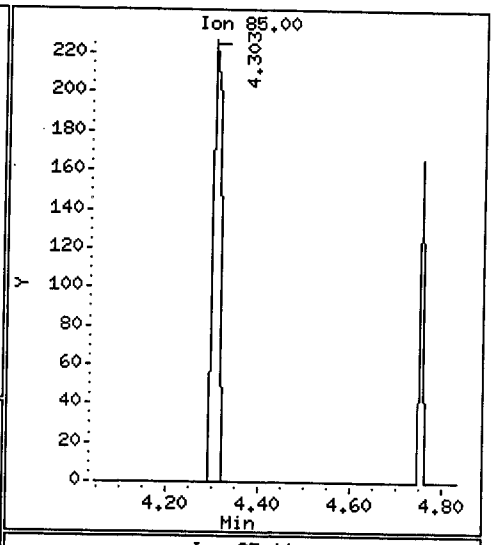
Column phase: RTX 624

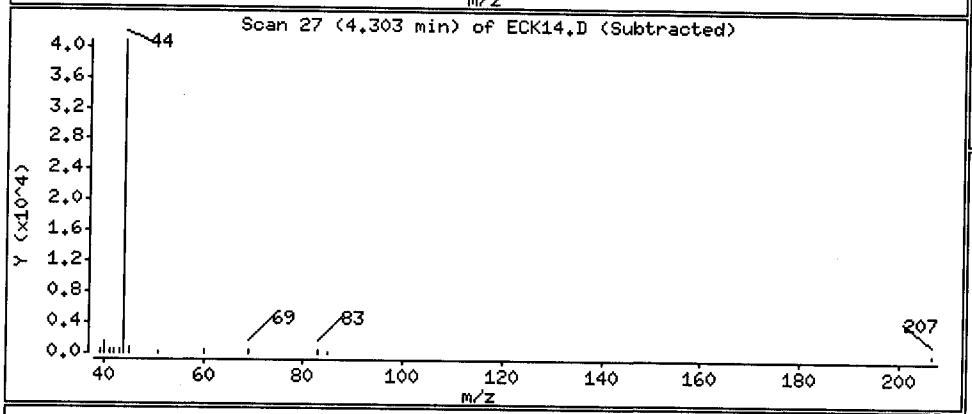
Column diameter: 0.25

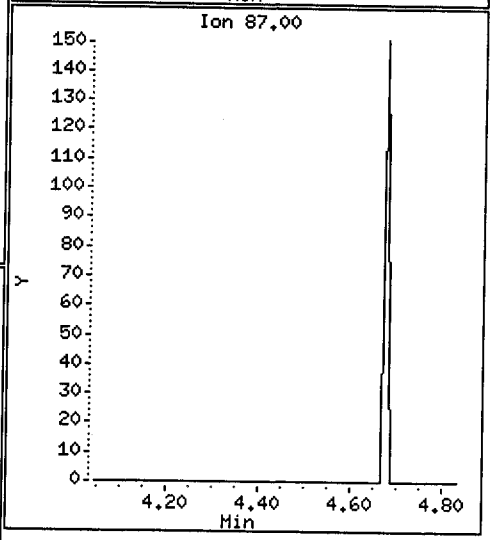
1 Freon 12

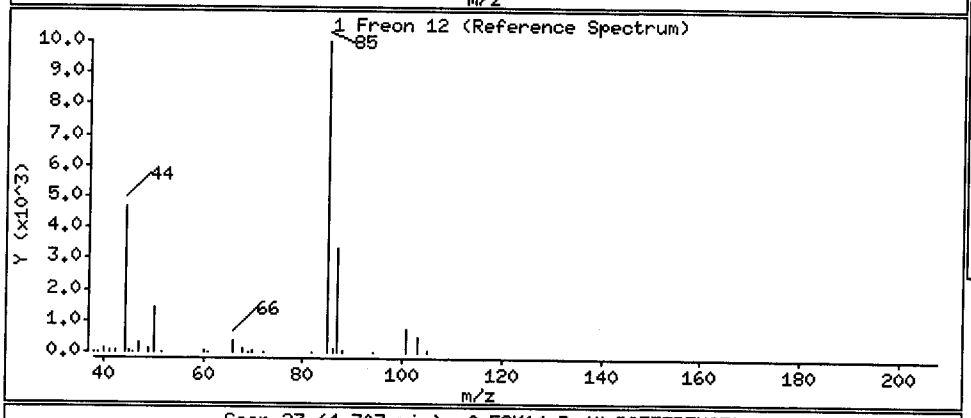
Concentration: 1.9210 UG/L

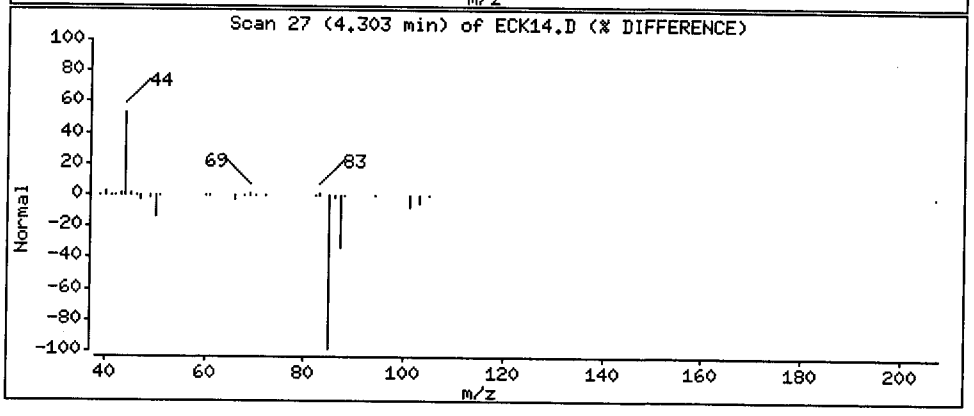












[Chloroethane; 0.71 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

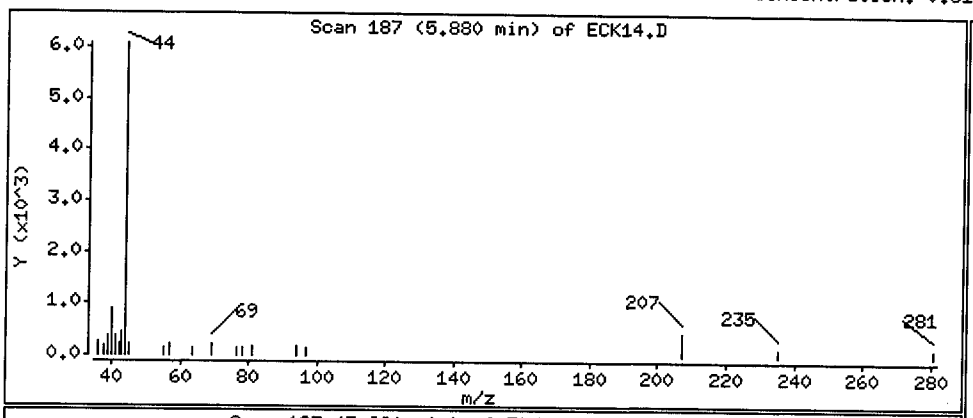
Operator: VOC

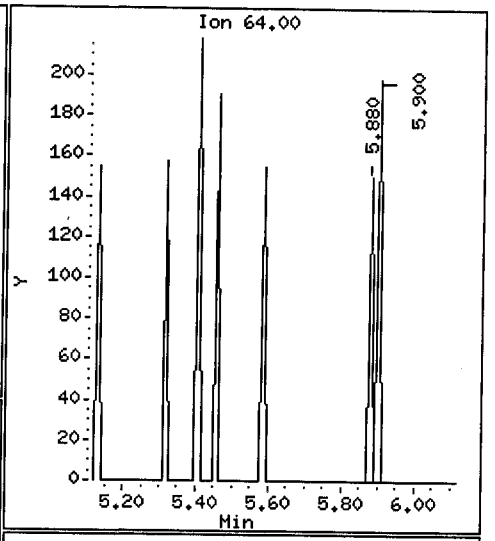
Column phase: RTX 624

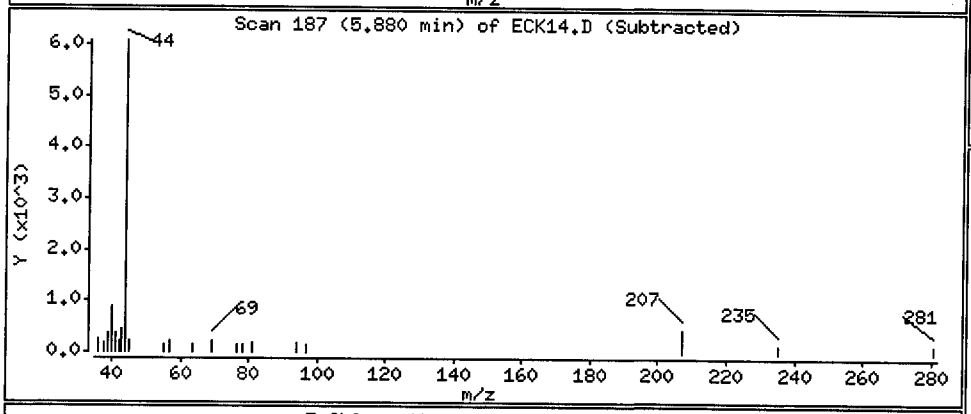
Column diameter: 0.25

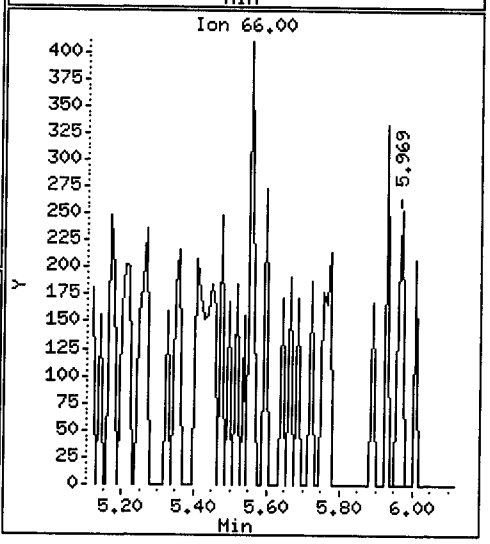
5 Chloroethane

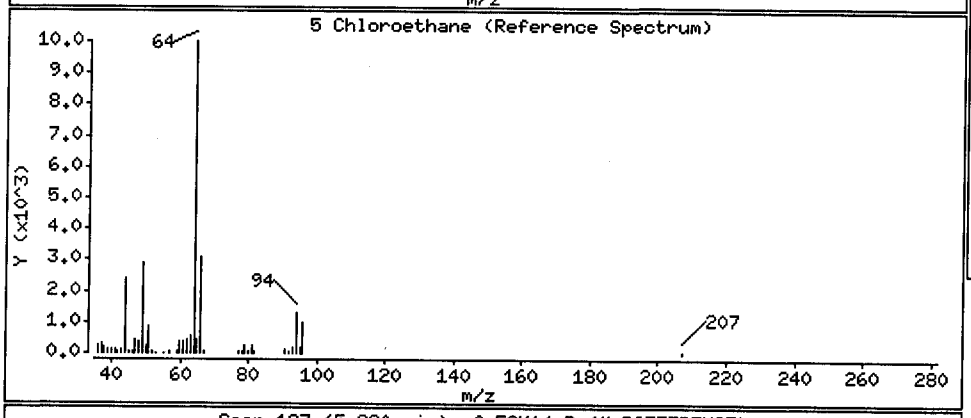
Concentration: 0.8108 UG/L

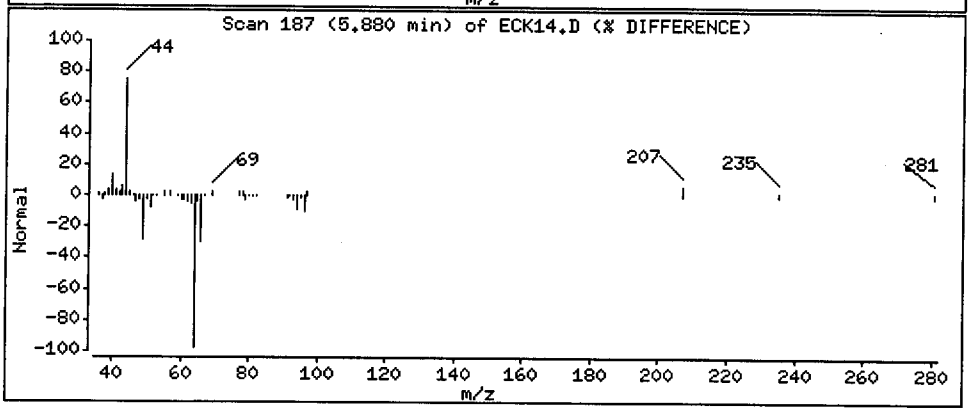












[Acetone; 17 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

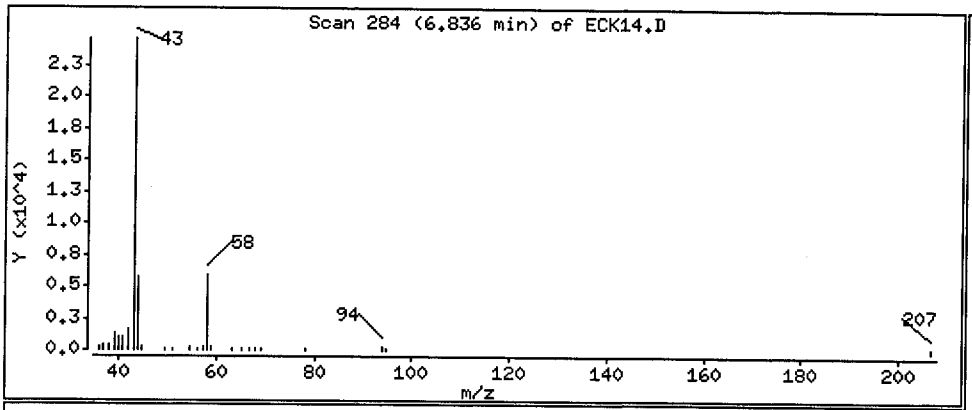
Operator: VOC

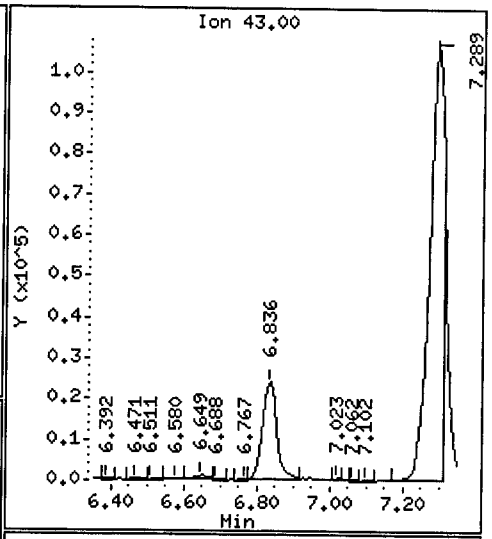
Column phase: RTX 624

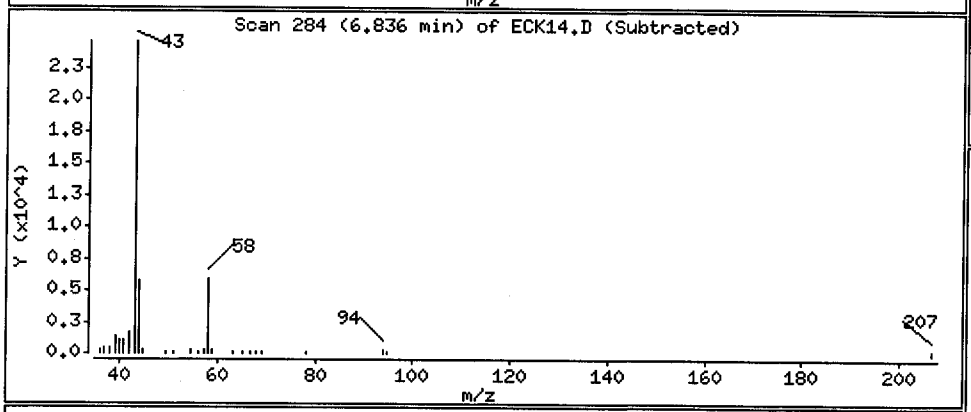
Column diameter: 0.25

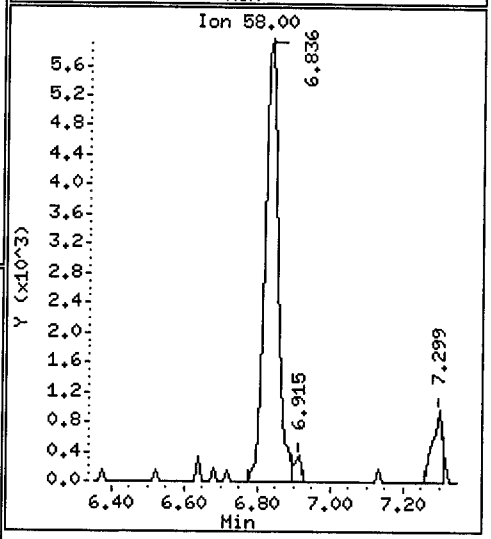
10 Acetone

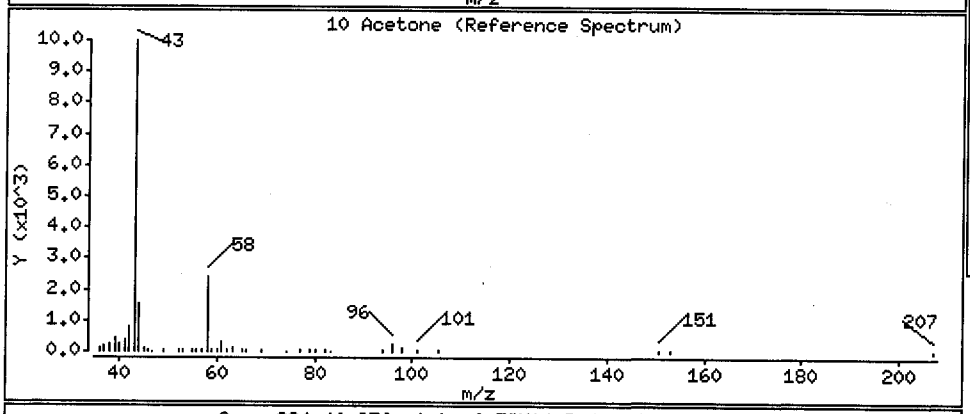
Concentration: 19.6788 UG/L

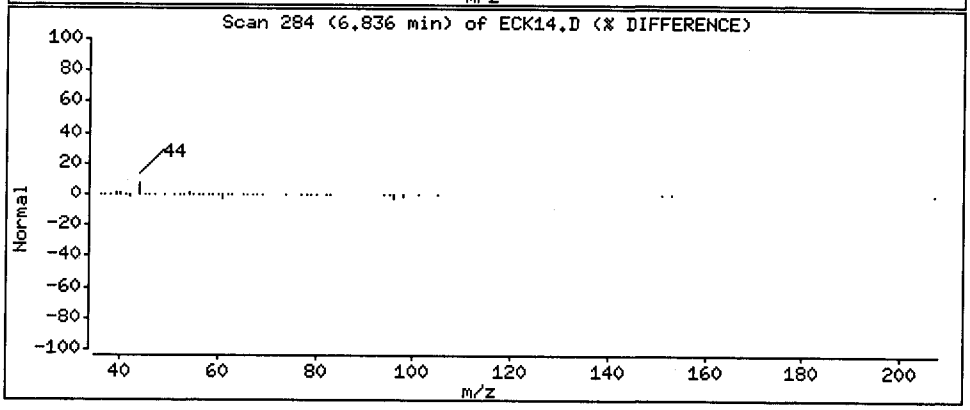












[Methylene Chloride; 0.62 J; MI; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

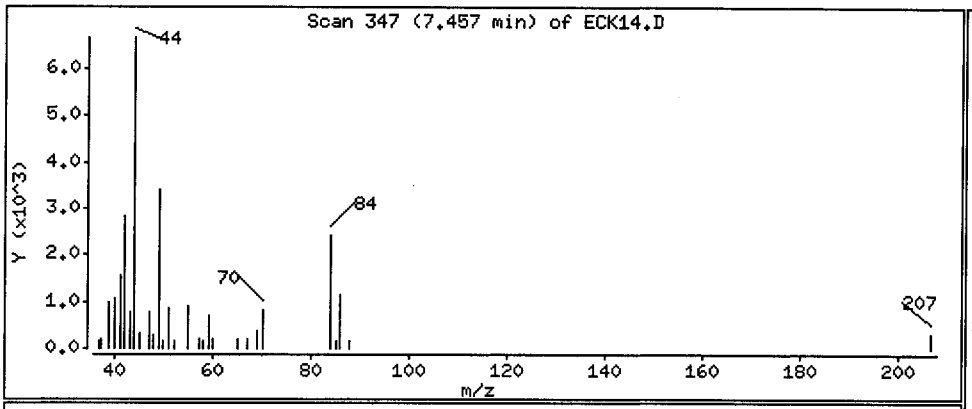
Operator: VOC

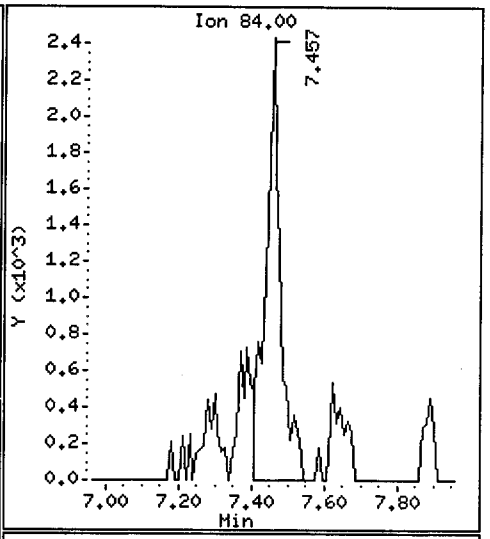
Column phase: RTX 624

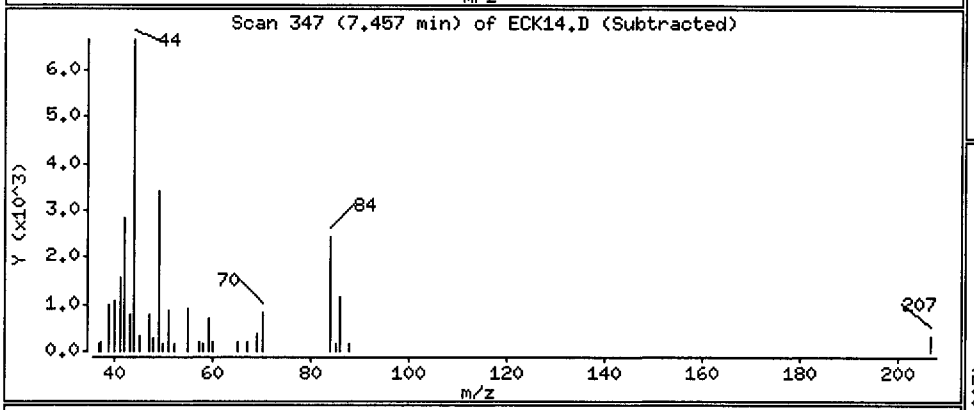
Column diameter: 0.25

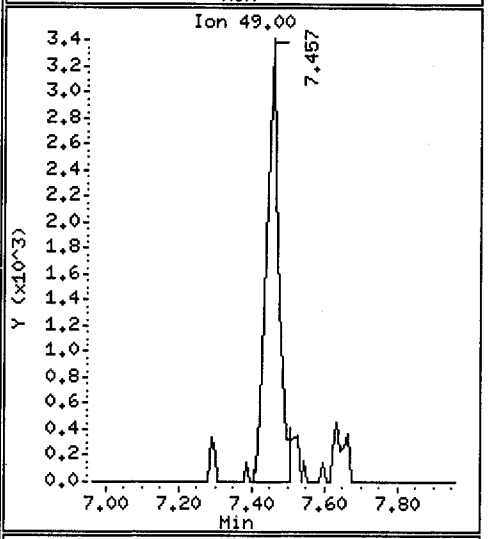
13 Methylene Chloride

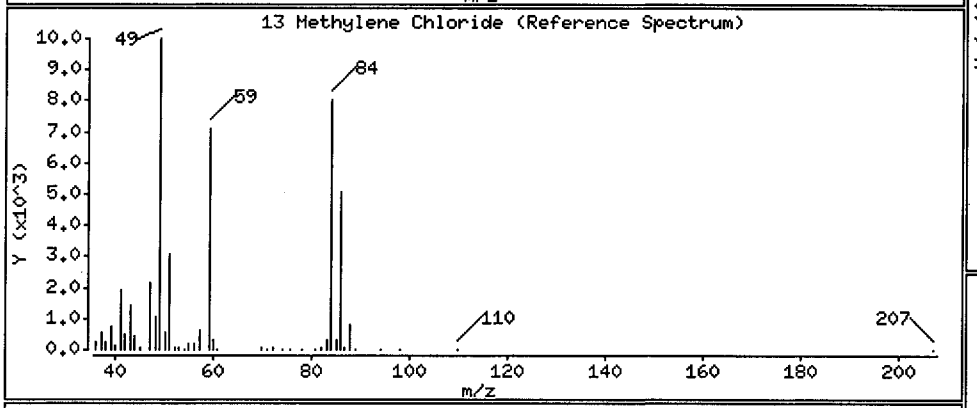
Concentration: 0.7093 UG/L

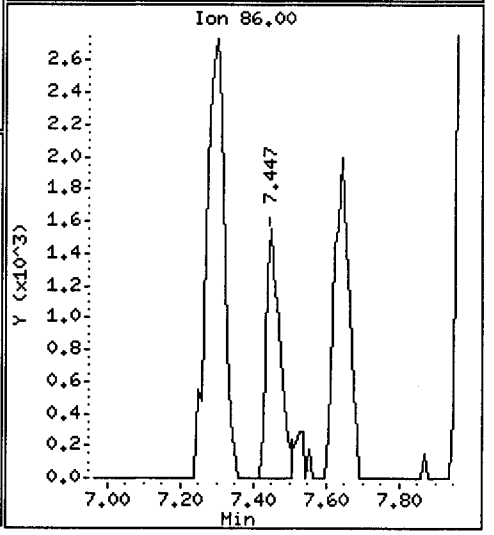


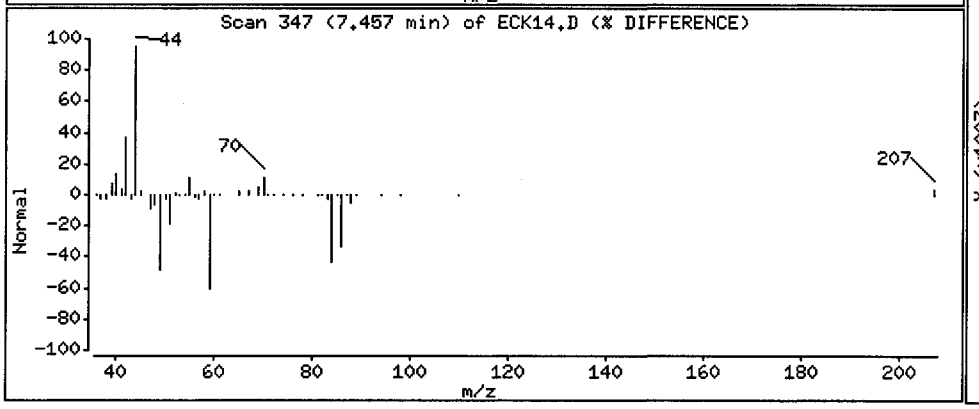












[Methylene Chloride; before version]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

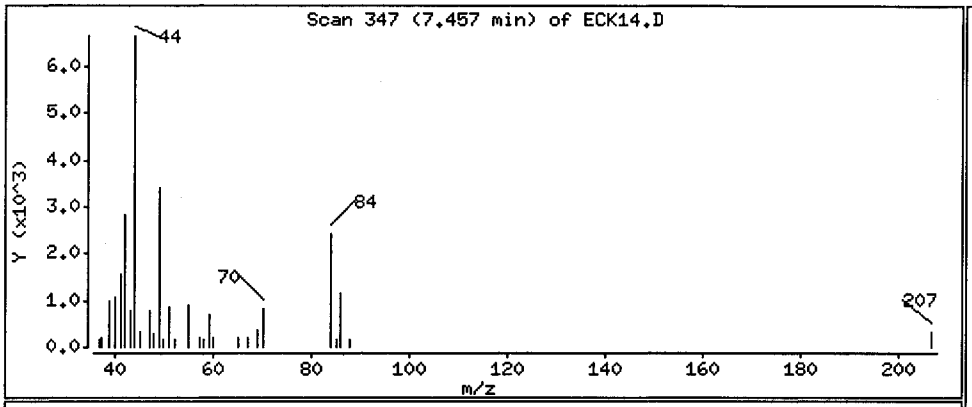
Operator: VOC

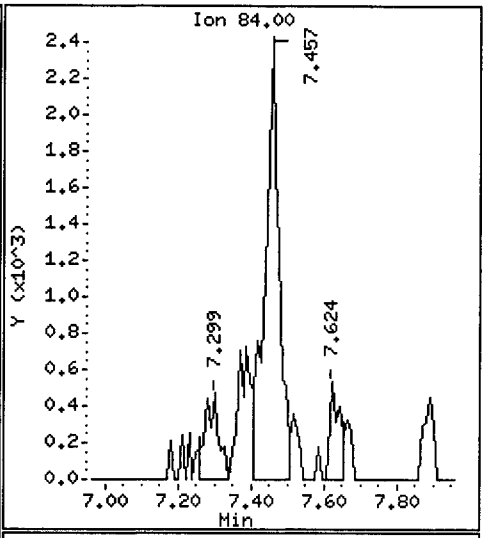
Column phase: RTX 624

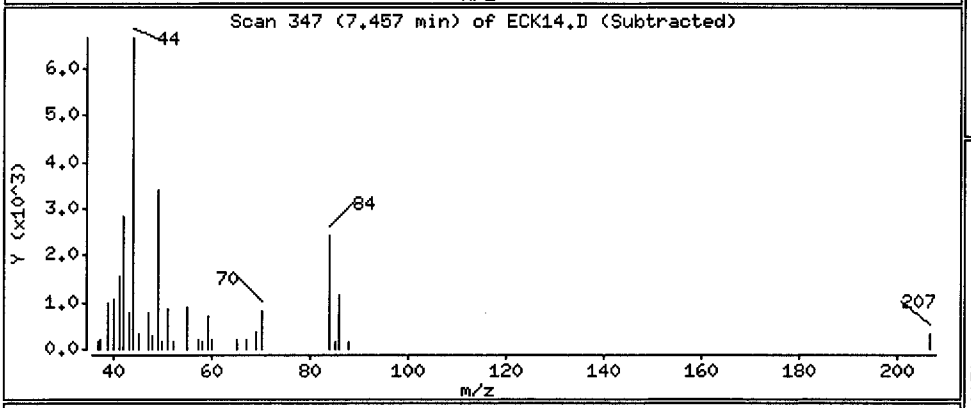
Column diameter: 0.25

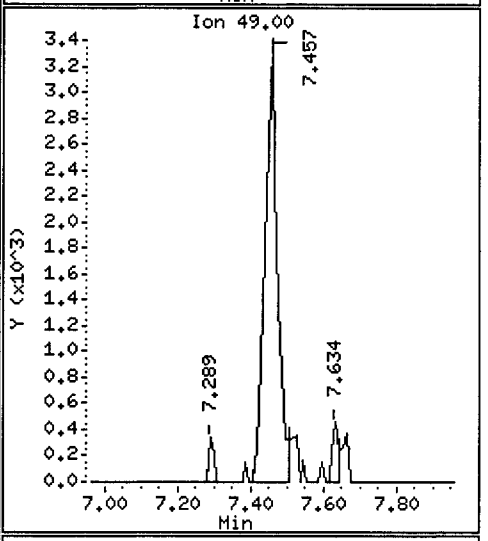
13 Methylene Chloride

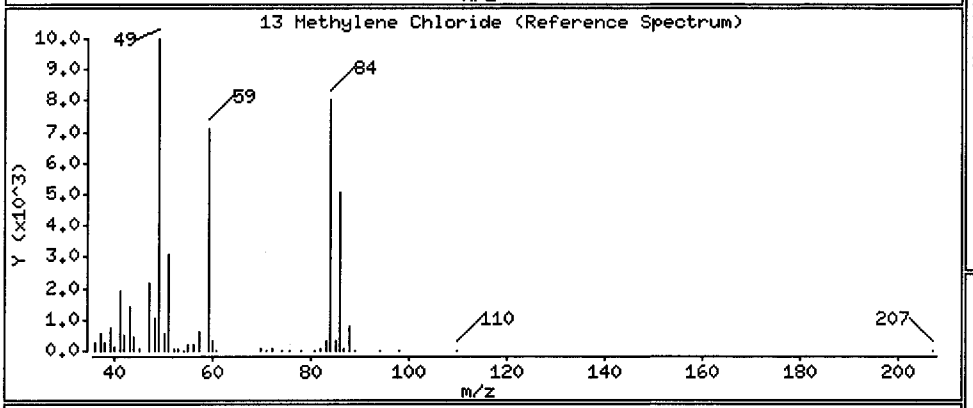
Concentration: 0.6642 UG/L

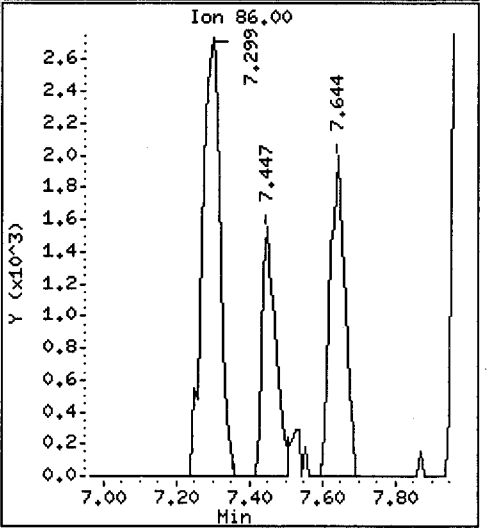


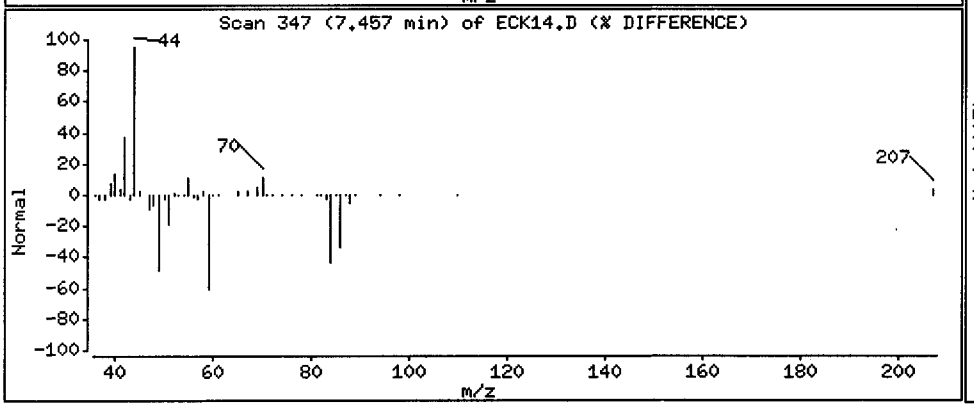












[2-Butanone; 3.4 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

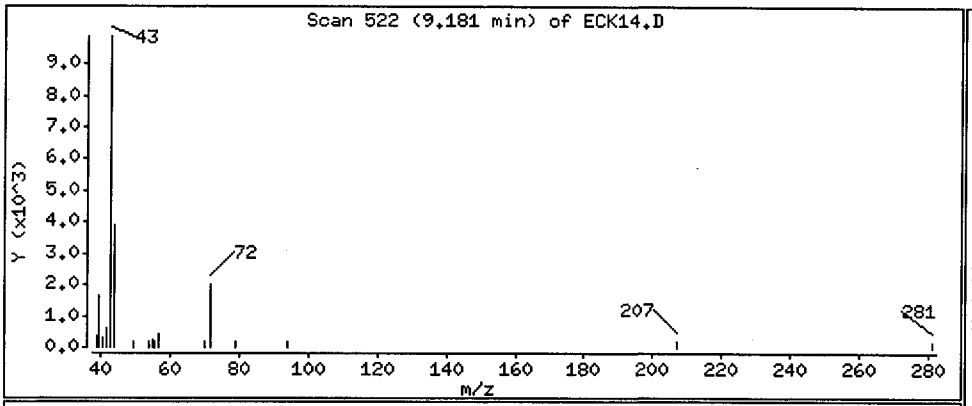
Operator: VOC

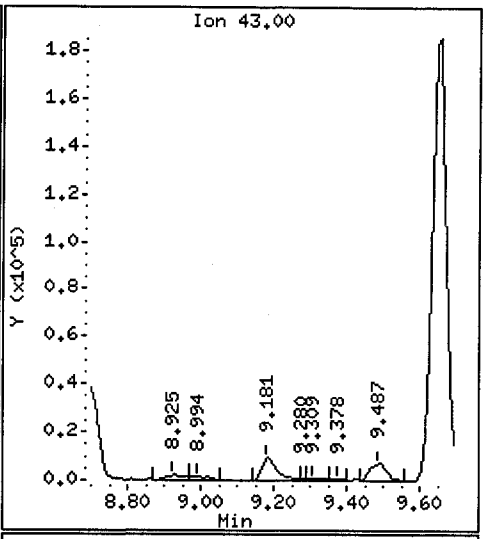
Column phase: RTX 624

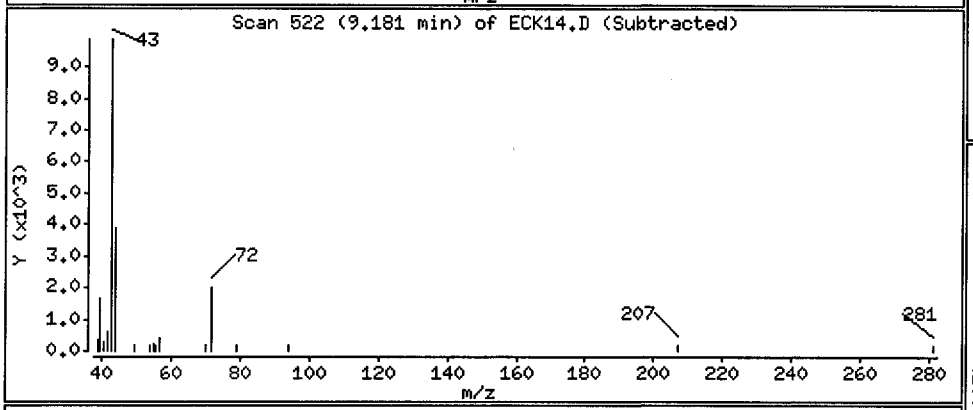
Column diameter: 0.25

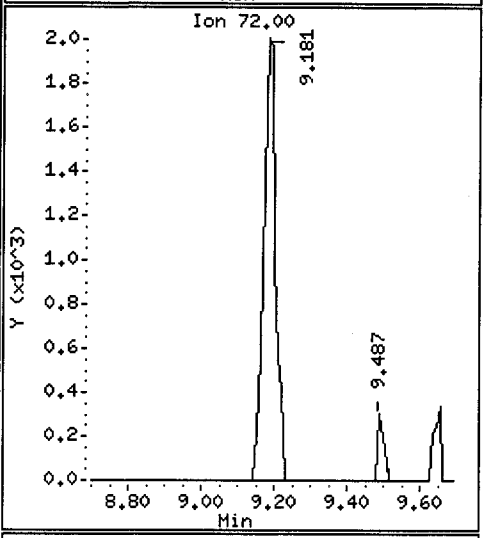
22 2-Butanone

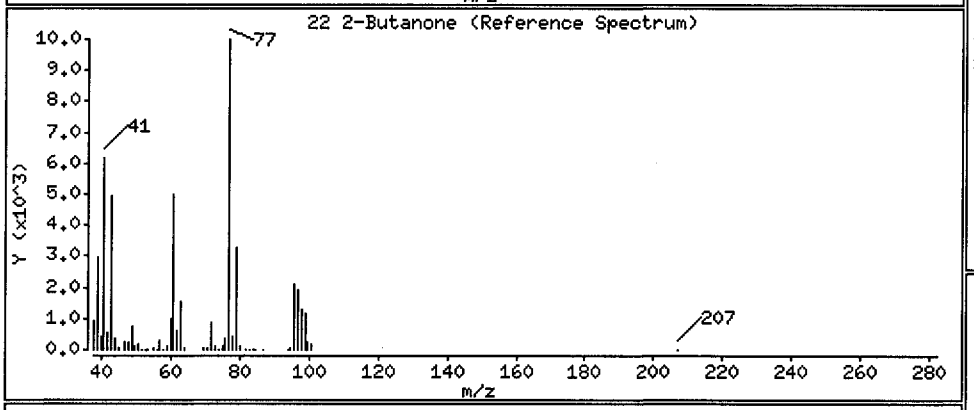
Concentration: 3.9140 UG/L

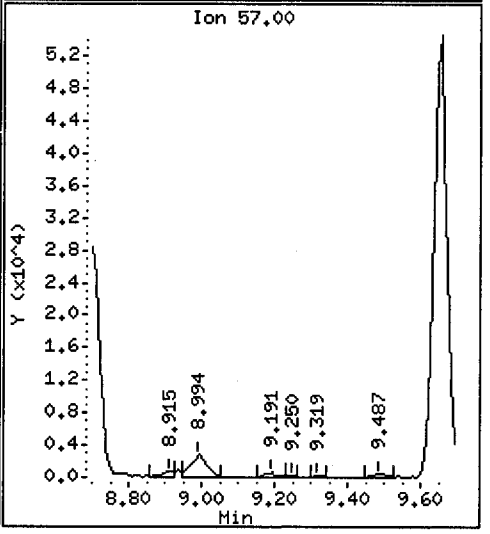


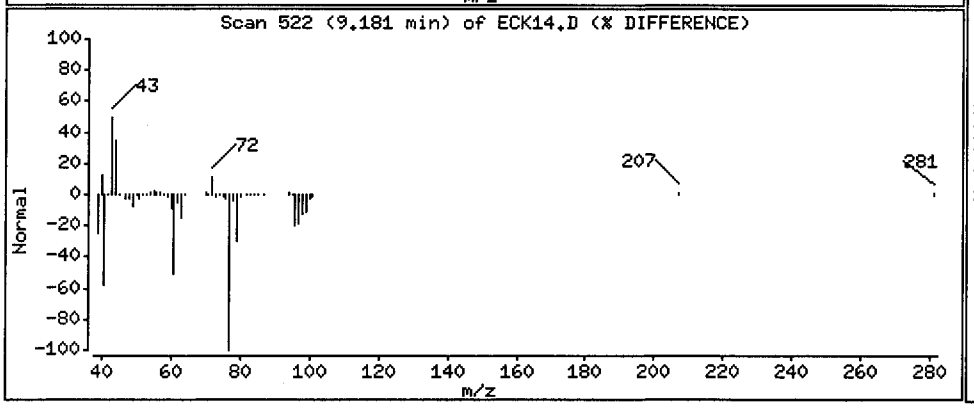












[Chloroform; 0.25 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

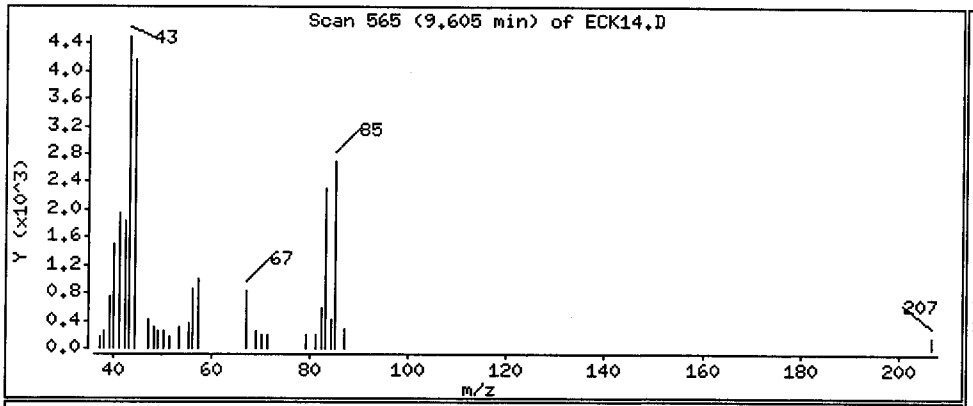
Operator: VOC

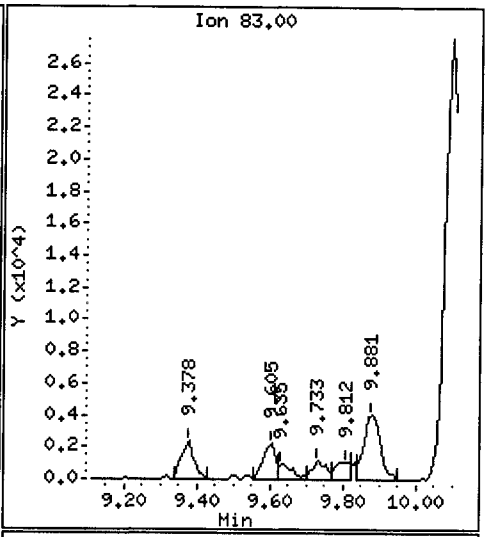
Column phase: RTX 624

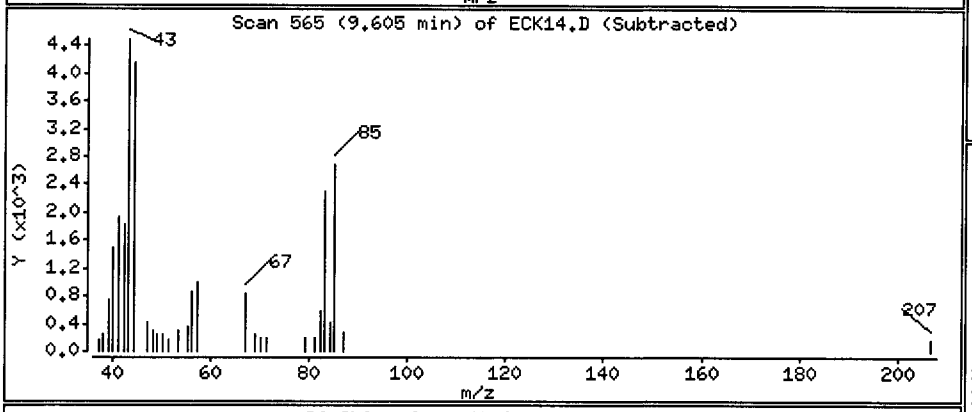
Column diameter: 0.25

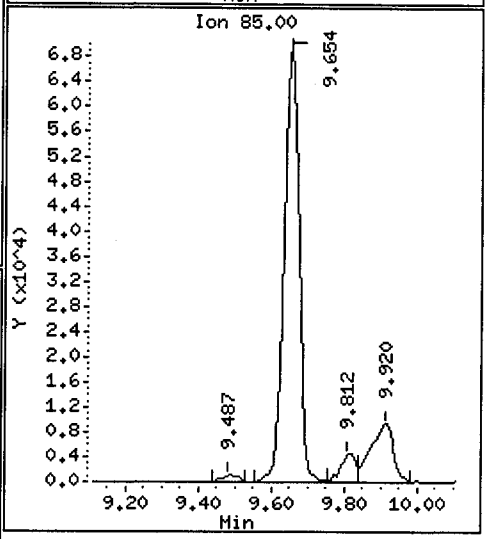
26 Chloroform

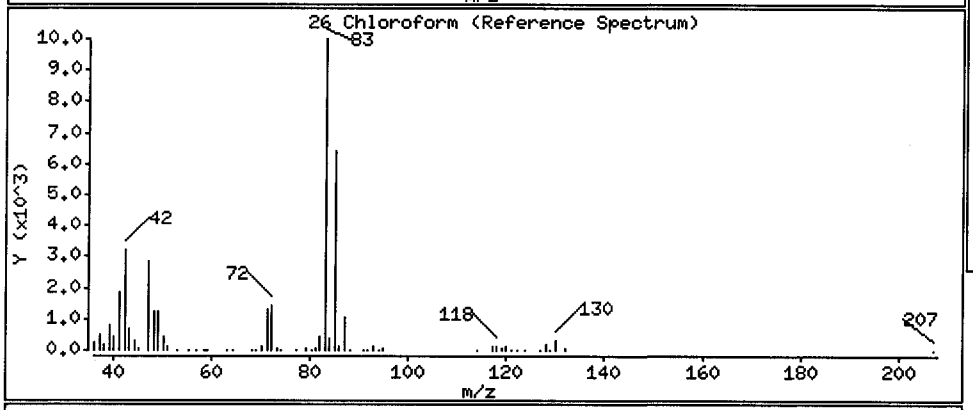
Concentration: 0.2819 UG/L

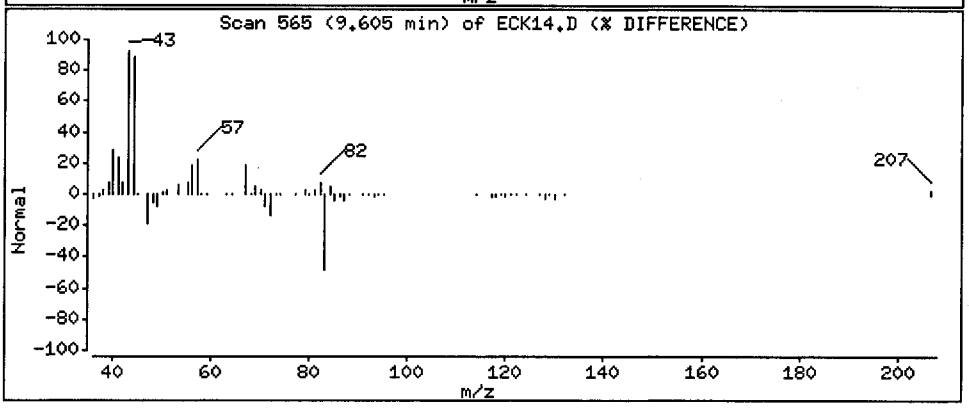












[Carbon Tetrachloride; 5.9; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

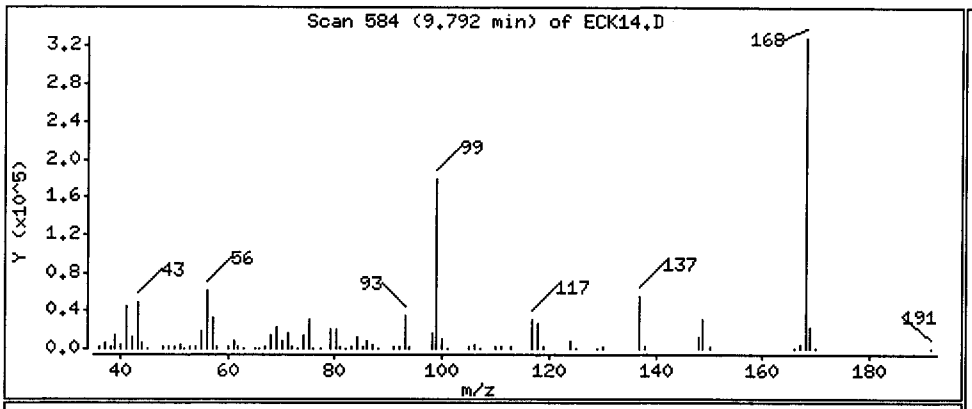
Operator: VOC

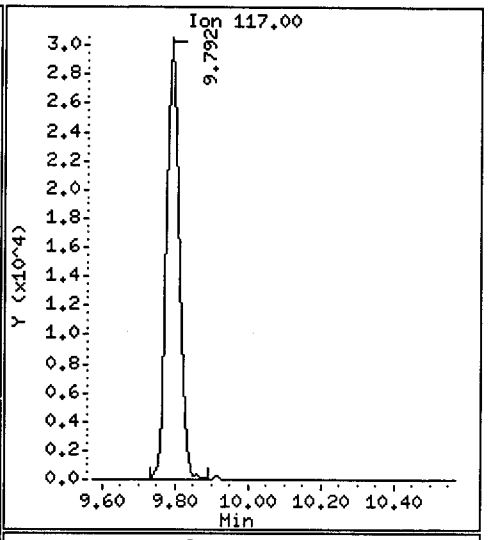
Column phase: RTX 624

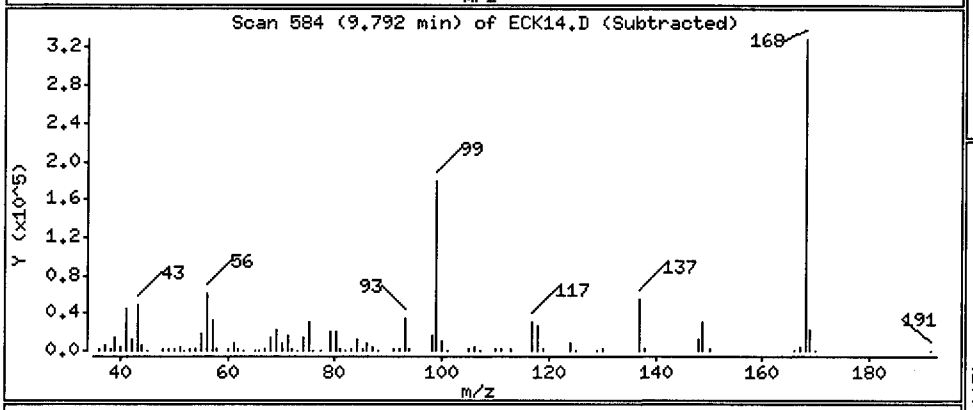
Column diameter: 0.25

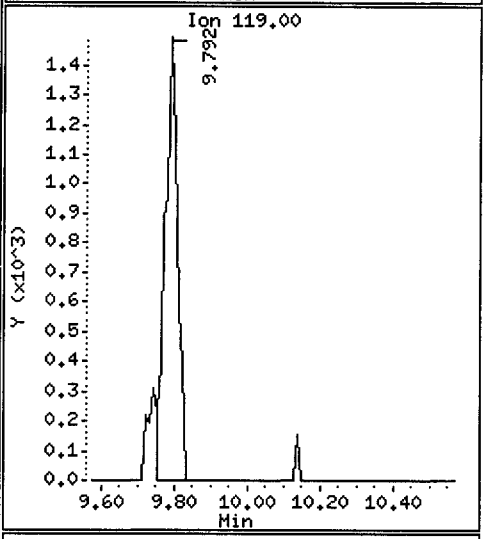
30 Carbon Tetrachloride

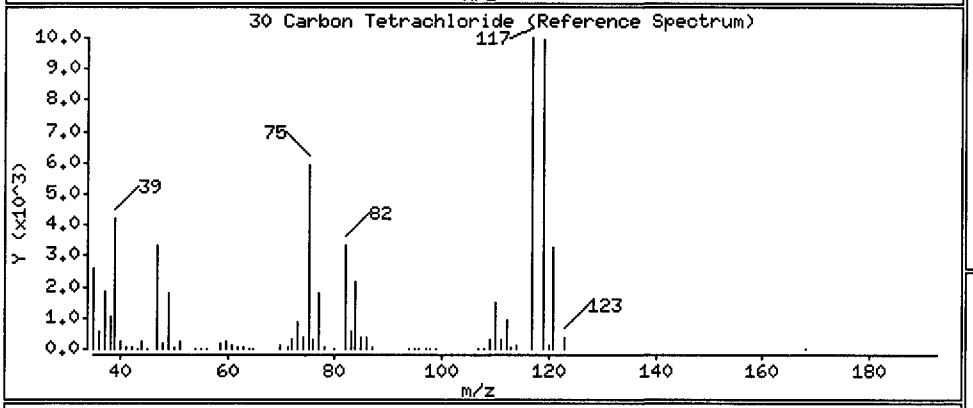
Concentration: 6.7243 UG/L

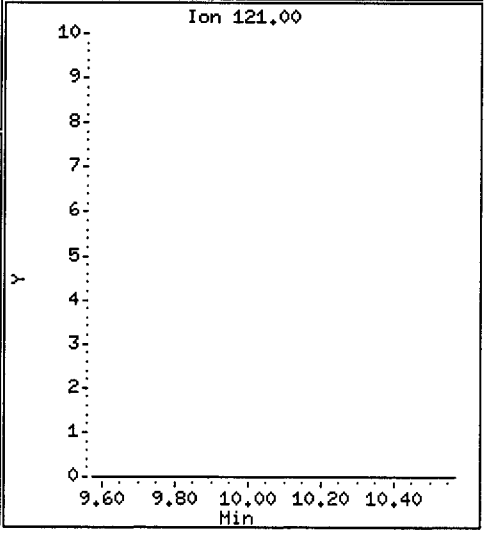


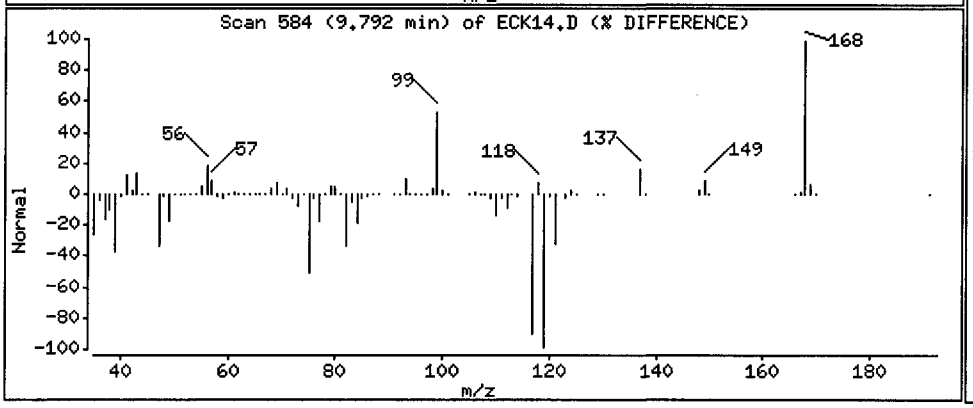












[1,1-Dichloropropene; 5.3; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

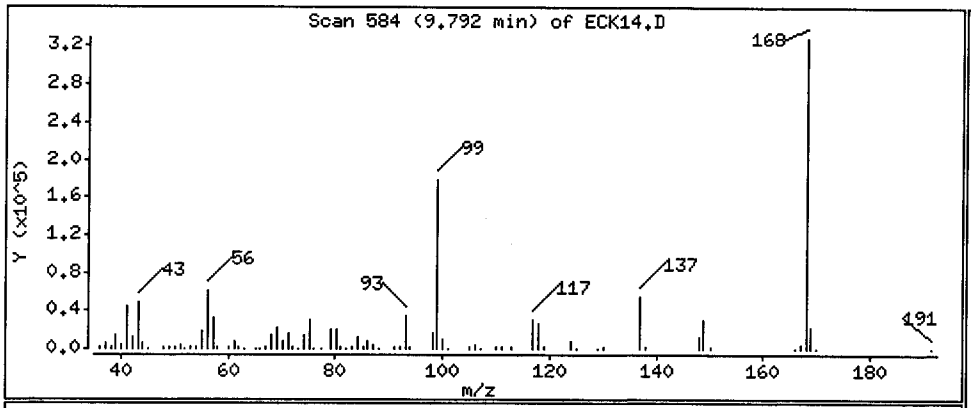
Operator: VOC

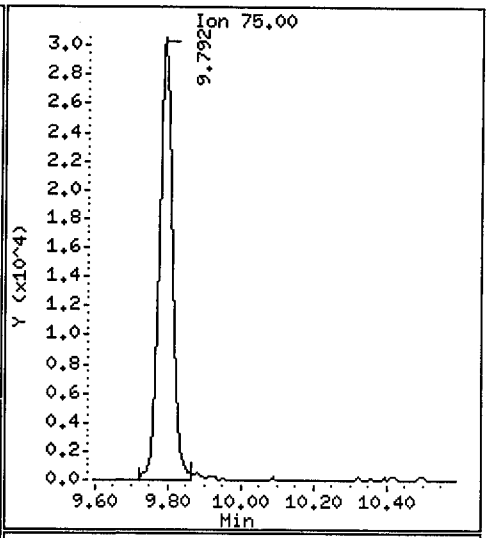
Column phase: RTX 624

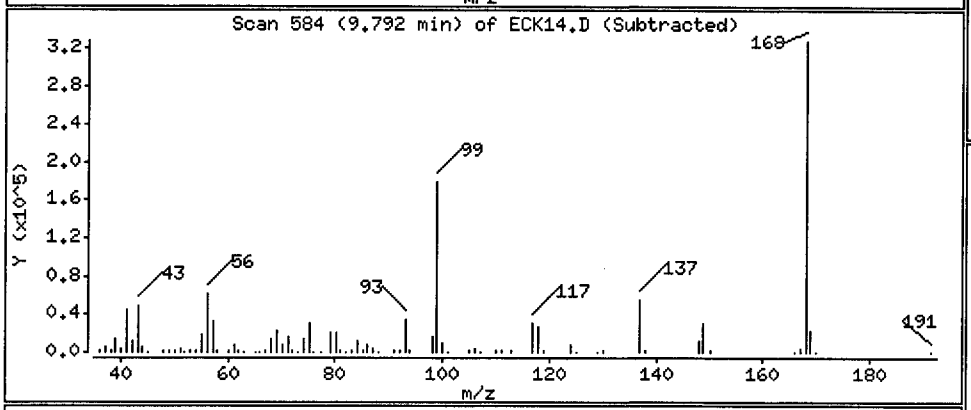
Column diameter: 0.25

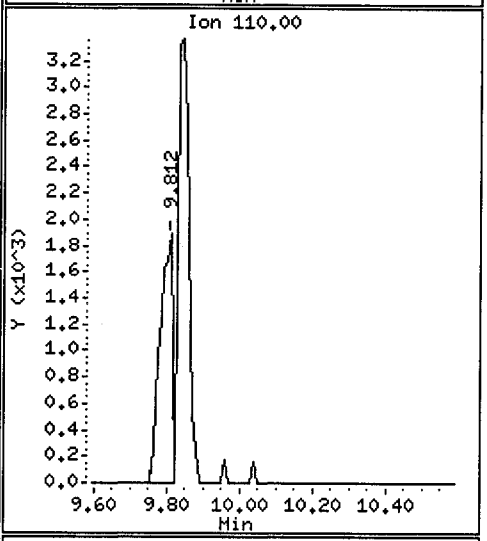
31 1,1-Dichloropropene

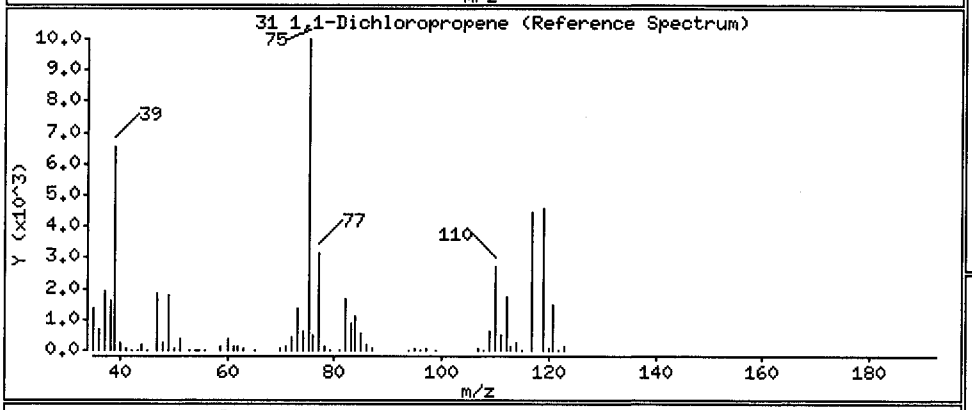
Concentration: 6.0561 UG/L

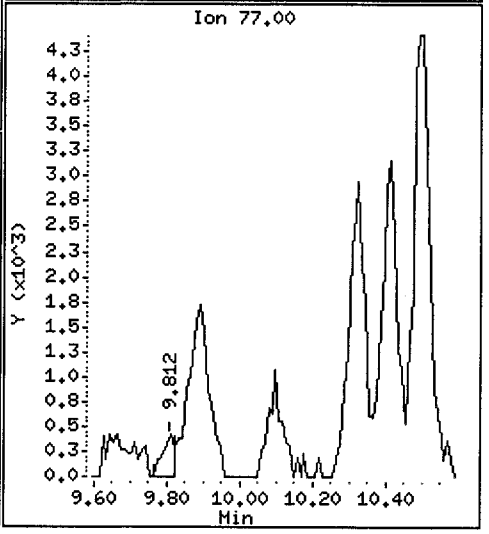


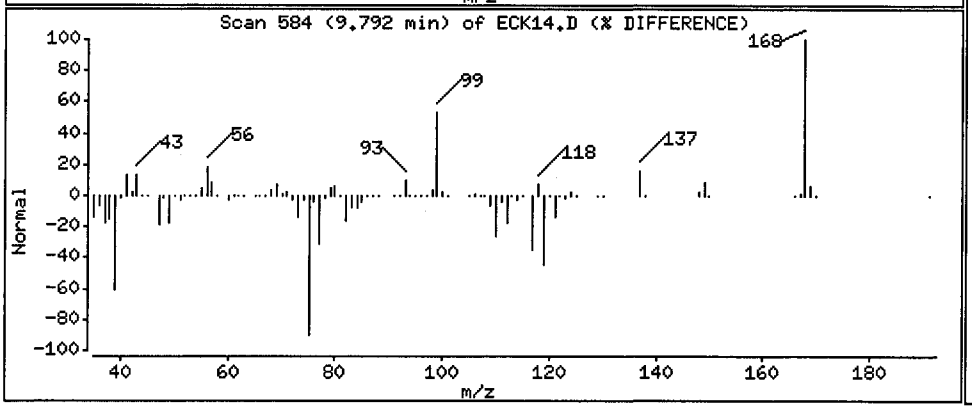












[Benzene; 0.24 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

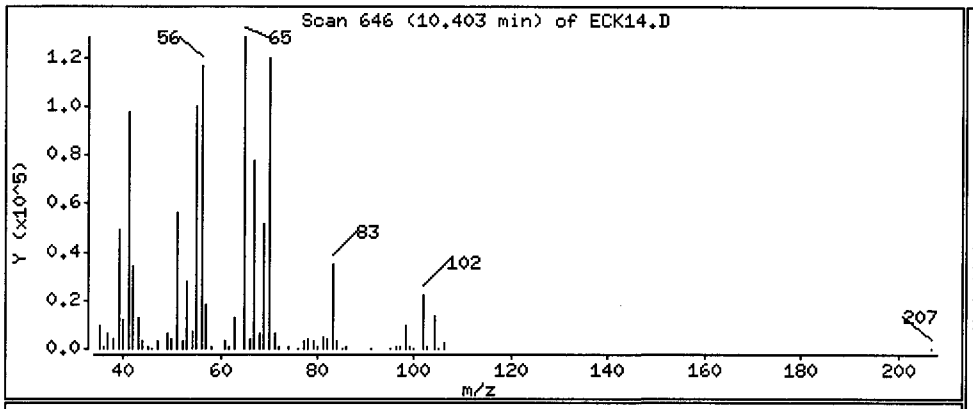
Operator: VOC

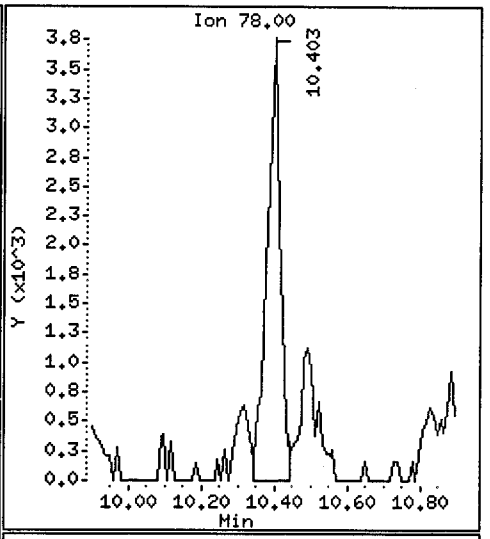
Column phase: RTX 624

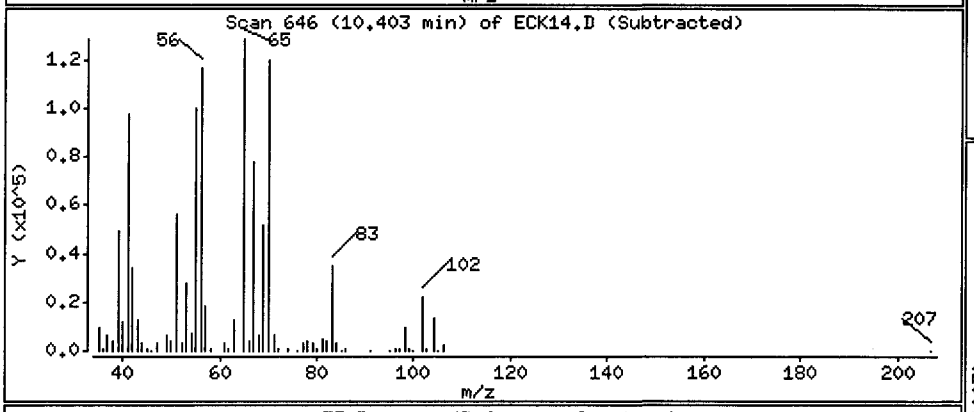
Column diameter: 0.25

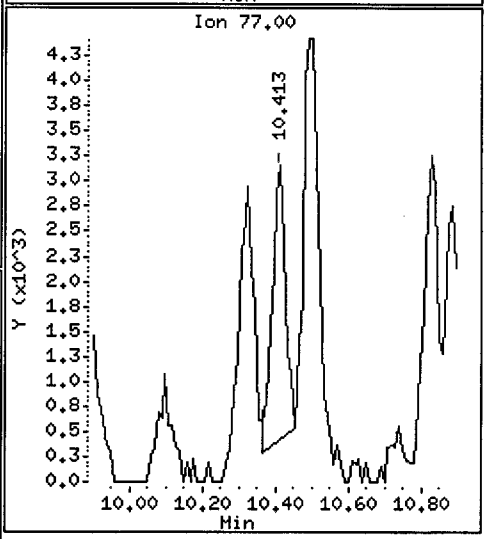
33 Benzene

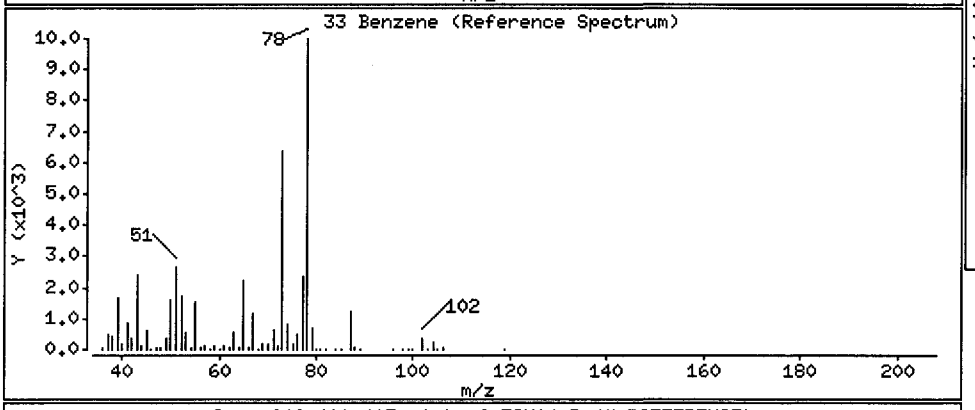
Concentration: 0.2731 UG/L

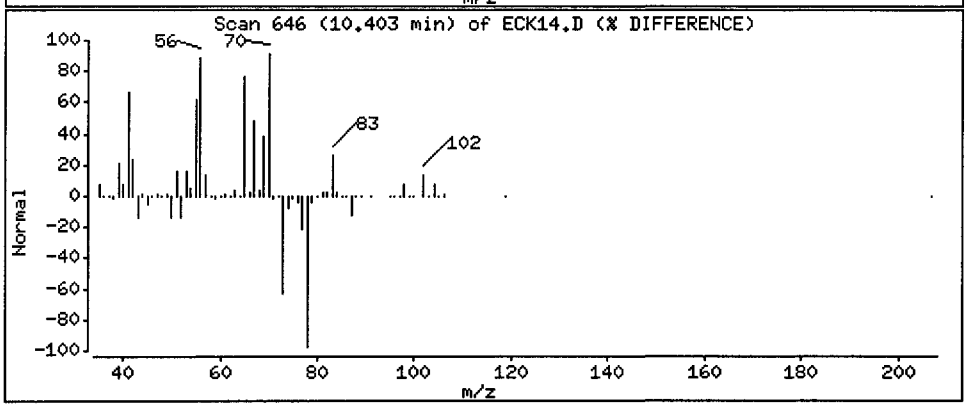












[1,2-Dichloroethane; 0.36 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

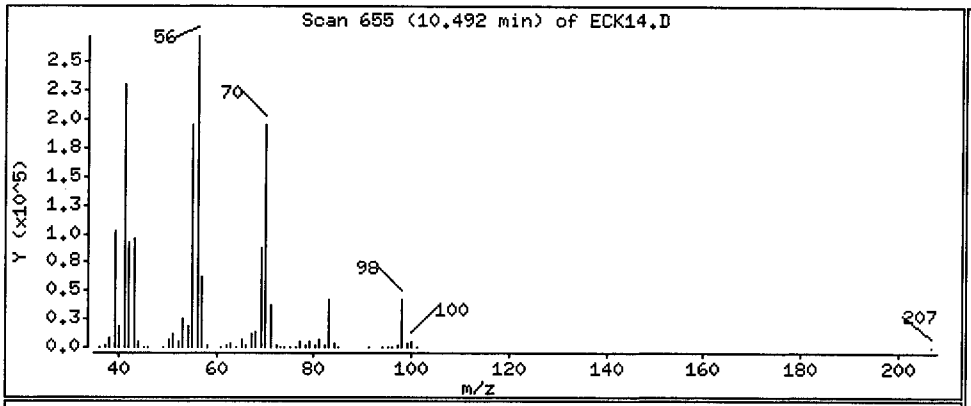
Operator: VOC

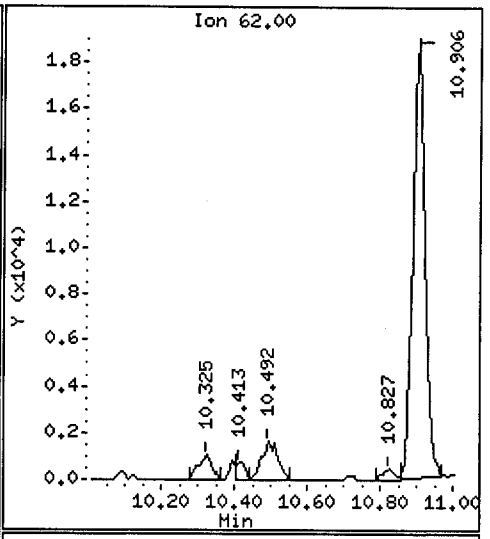
Column phase: RTX 624

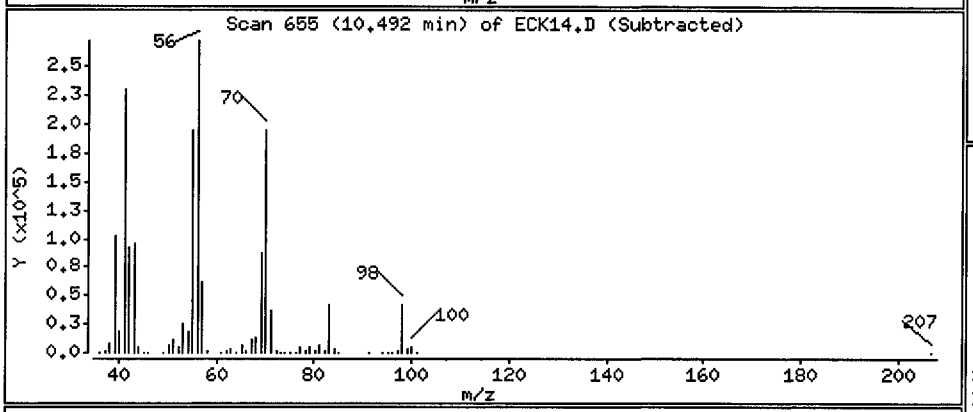
Column diameter: 0.25

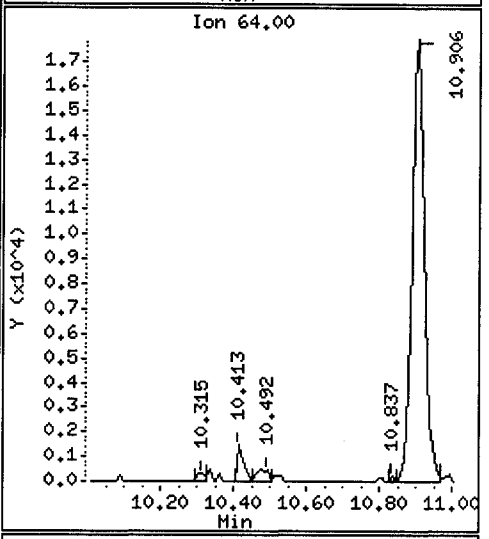
35 1,2-Dichloroethane

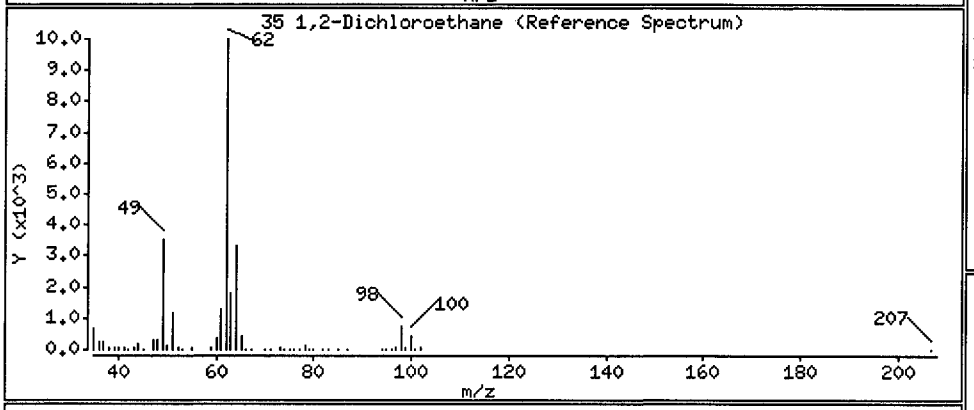
Concentration: 0.4047 UG/L

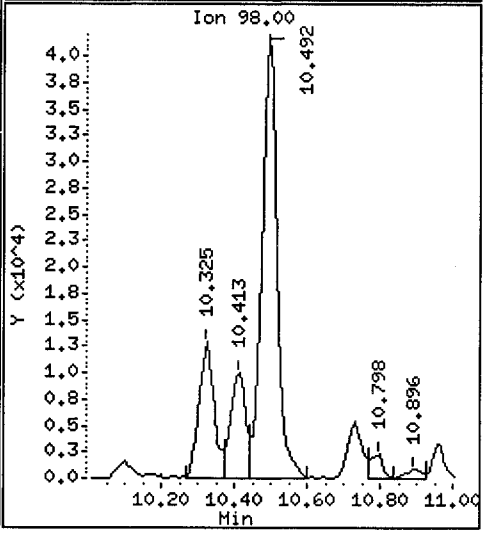


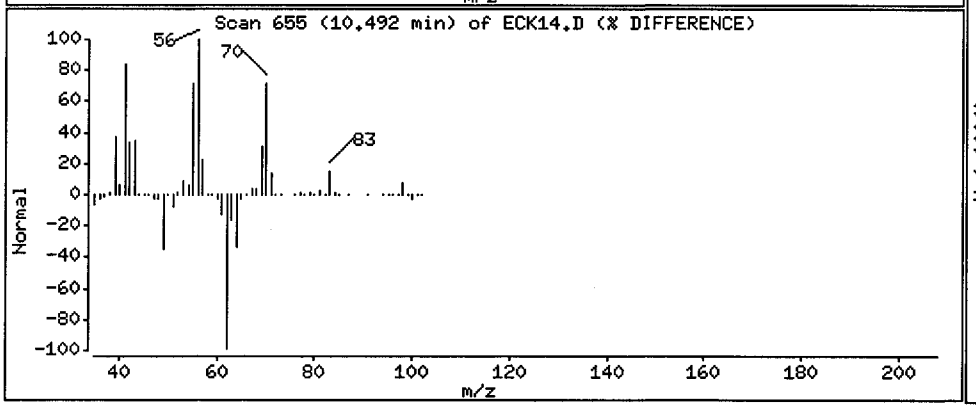












[Trichloroethene; 0.68 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

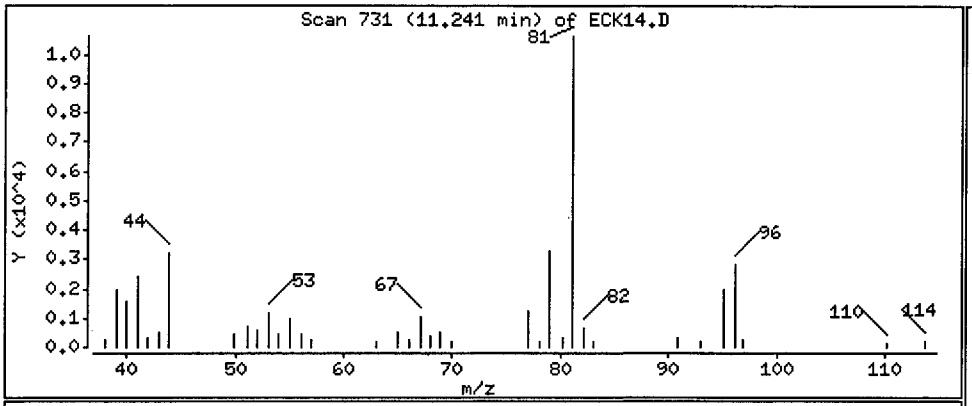
Operator: VOC

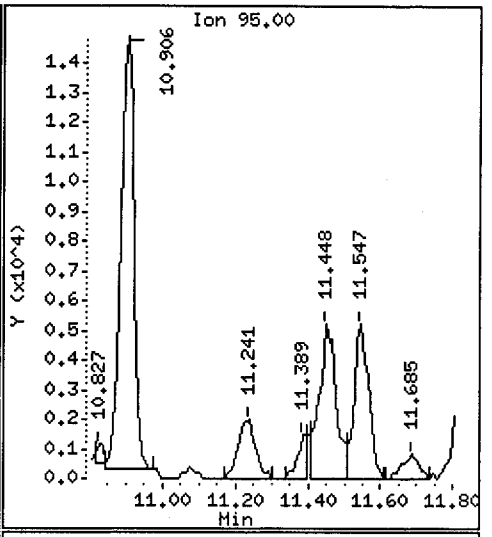
Column phase: RTX 624

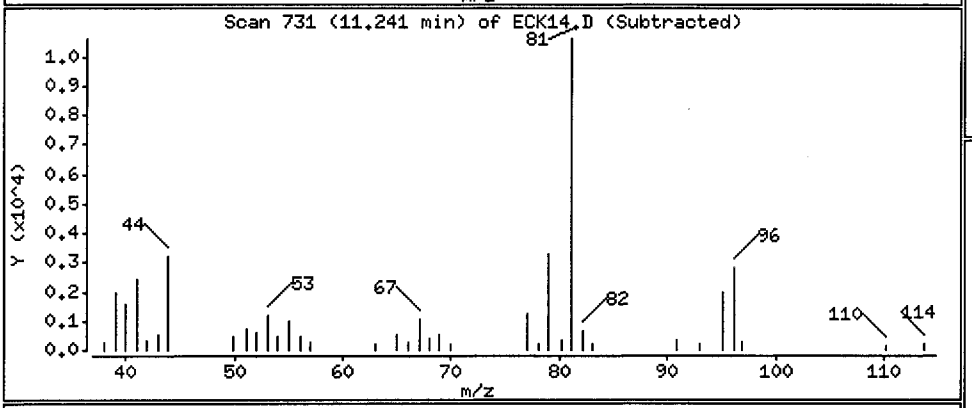
Column diameter: 0.25

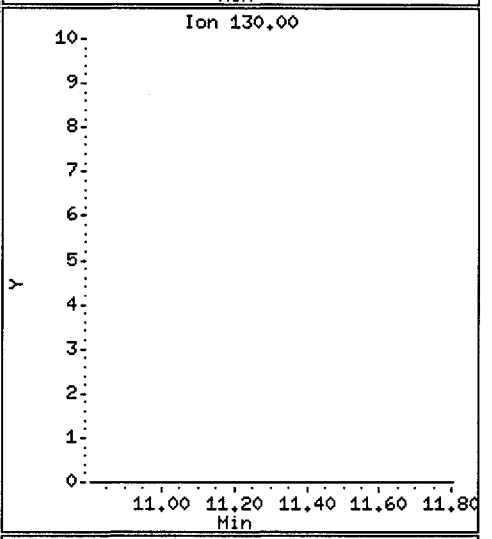
37 Trichloroethene

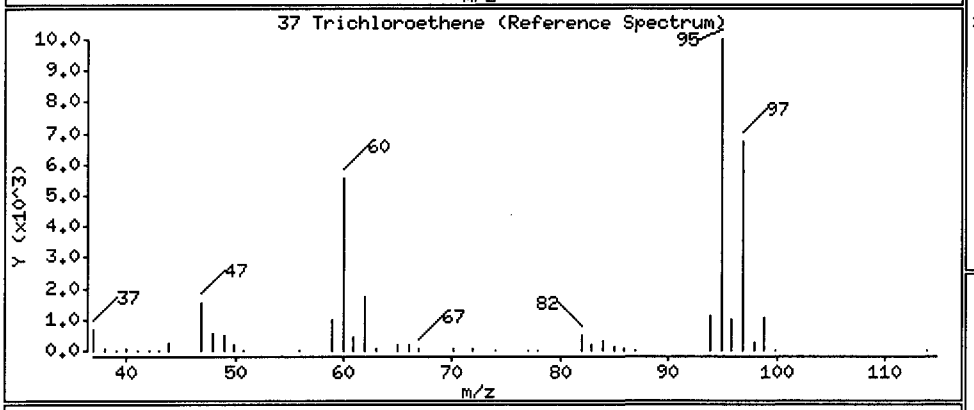
Concentration: 0.7711 UG/L

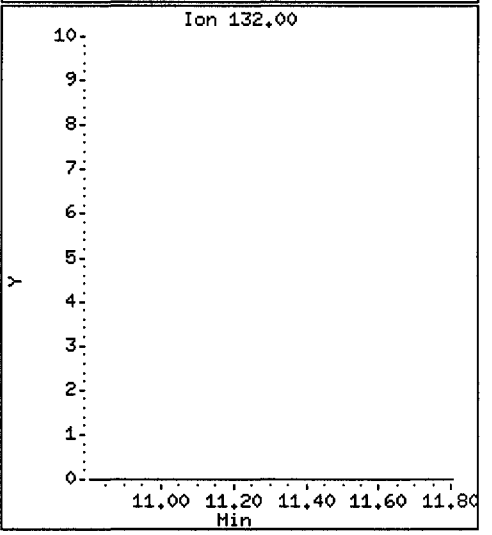


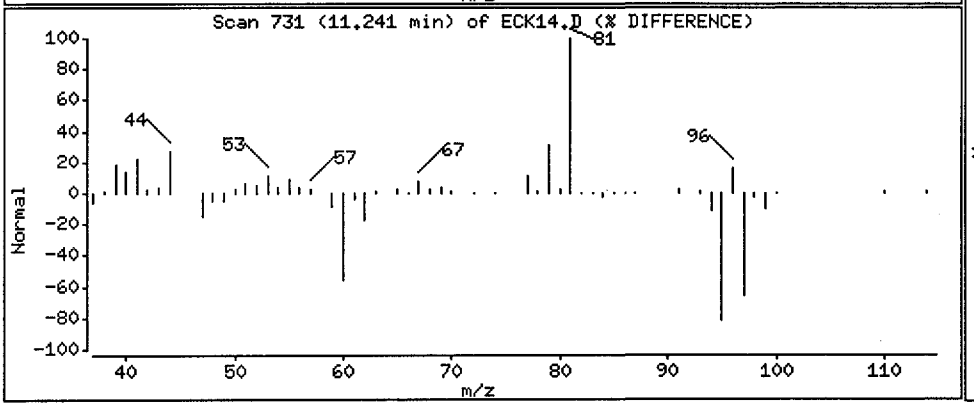












[Bromodichloromethane; 3.9 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

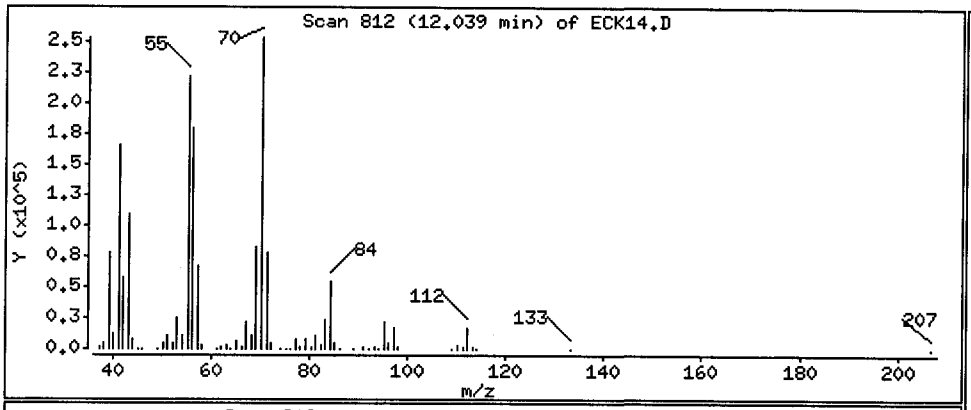
Operator: VOC

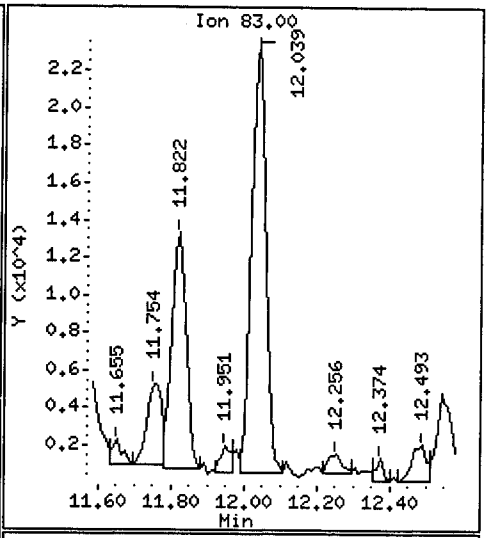
Column phase: RTX 624

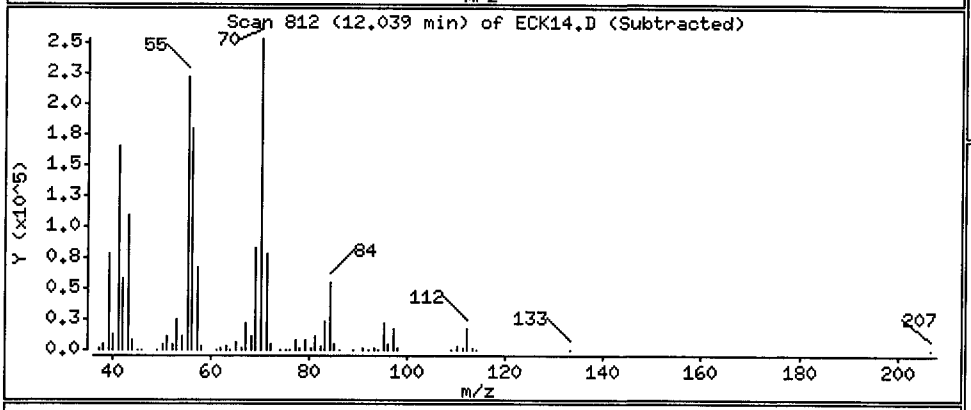
Column diameter: 0.25

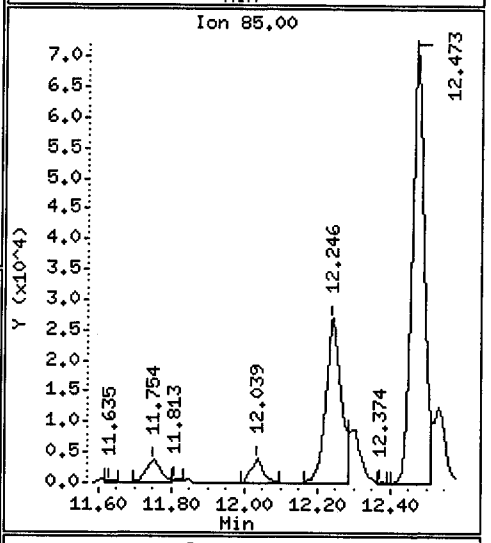
41 Bromodichloromethane

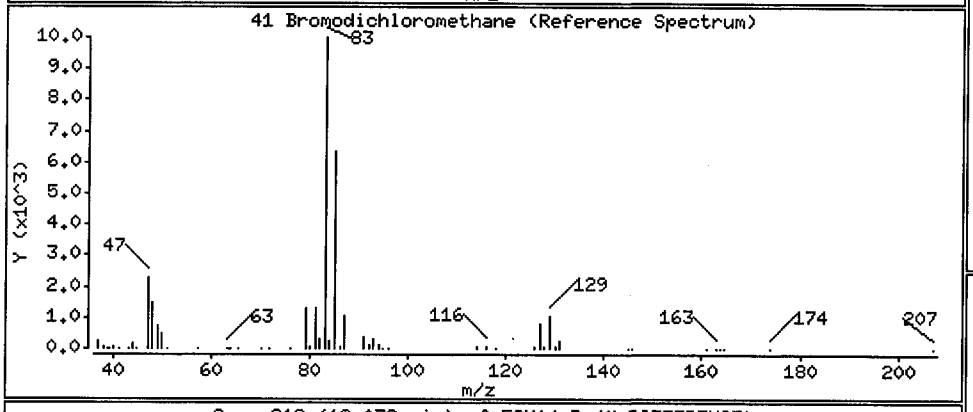
Concentration: 4.3981 UG/L

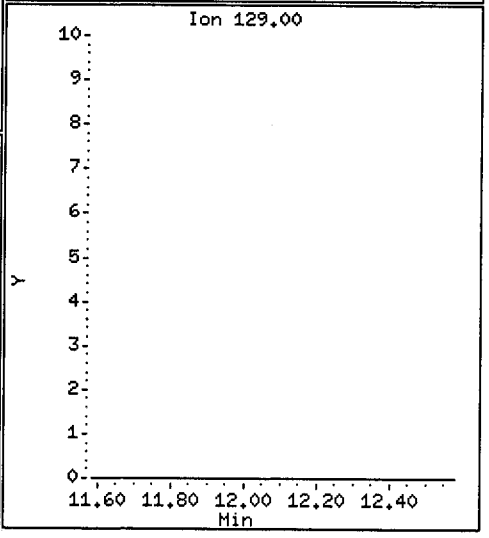


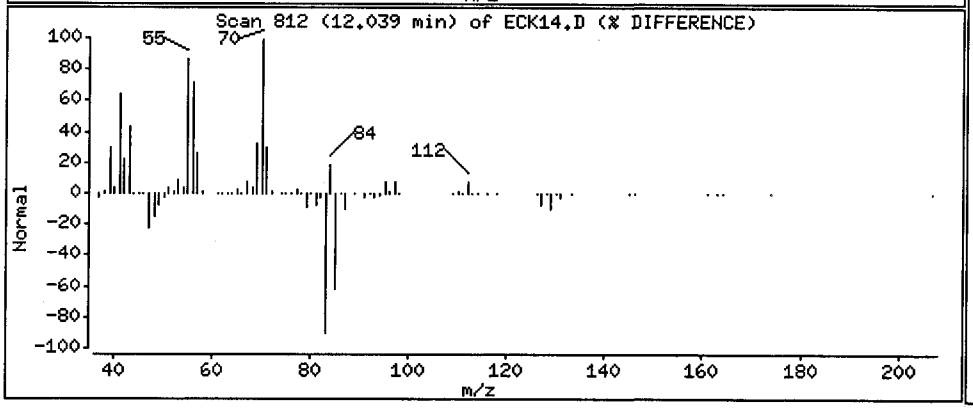












[4-Methyl-2-Pentanone; 11; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

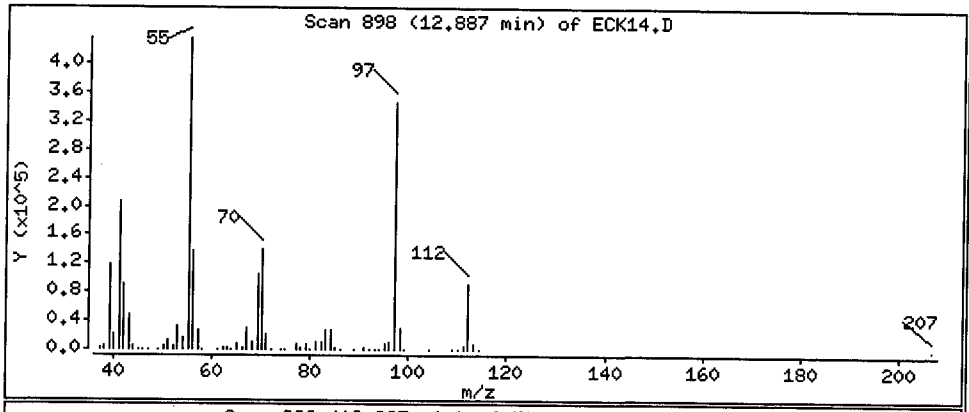
Operator: VOC

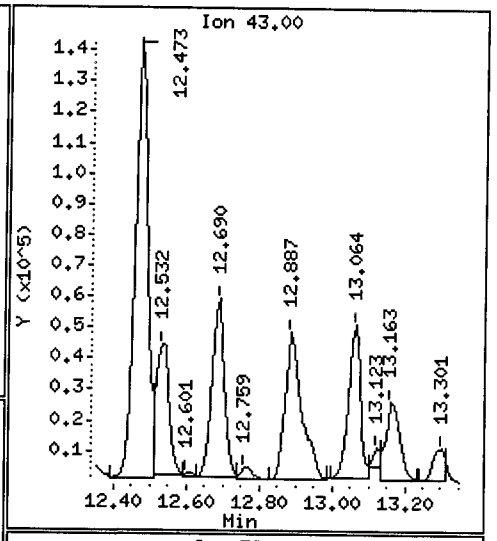
Column phase: RTX 624

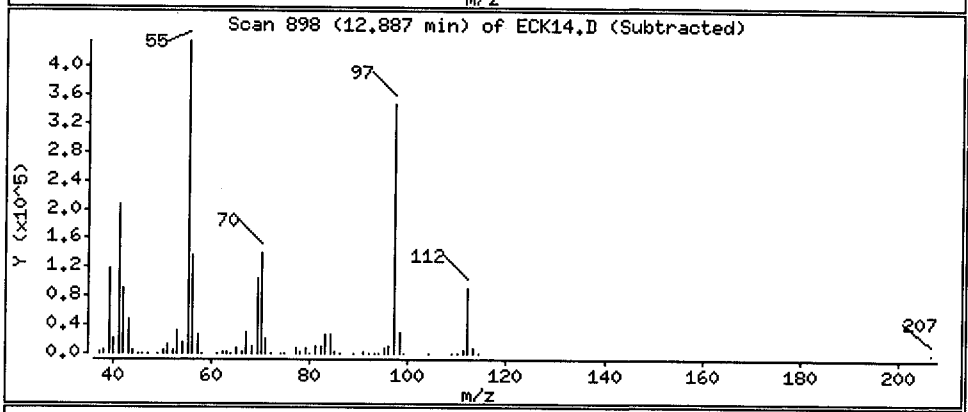
Column diameter: 0.25

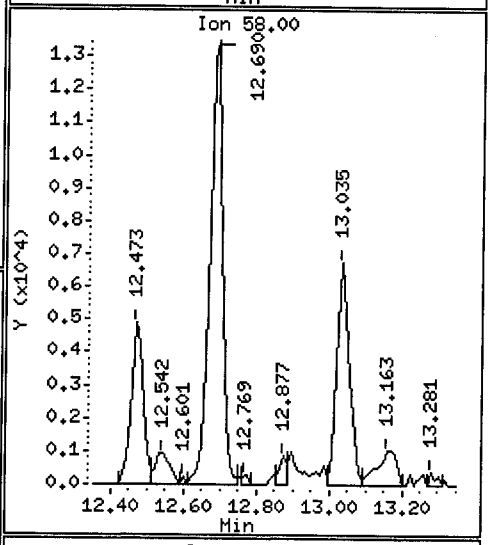
44 4-Methyl-2-Pentanone

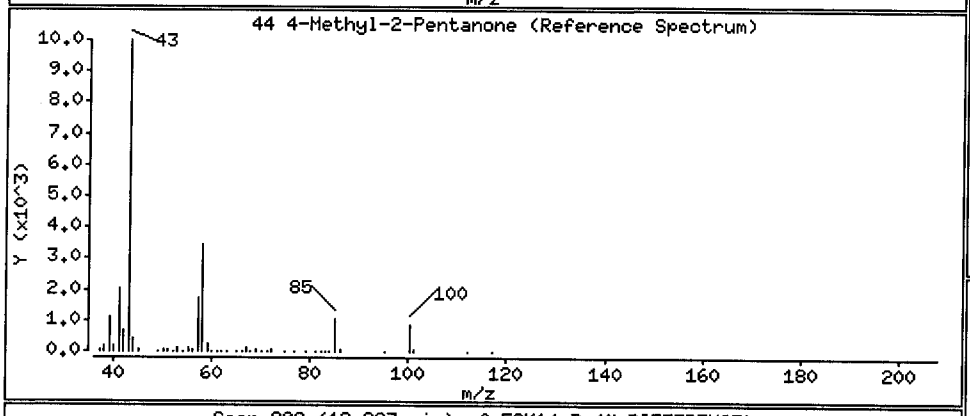
Concentration: 12.0251 UG/L

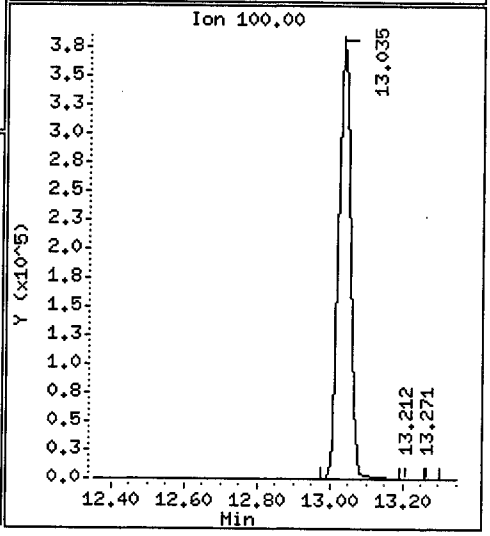


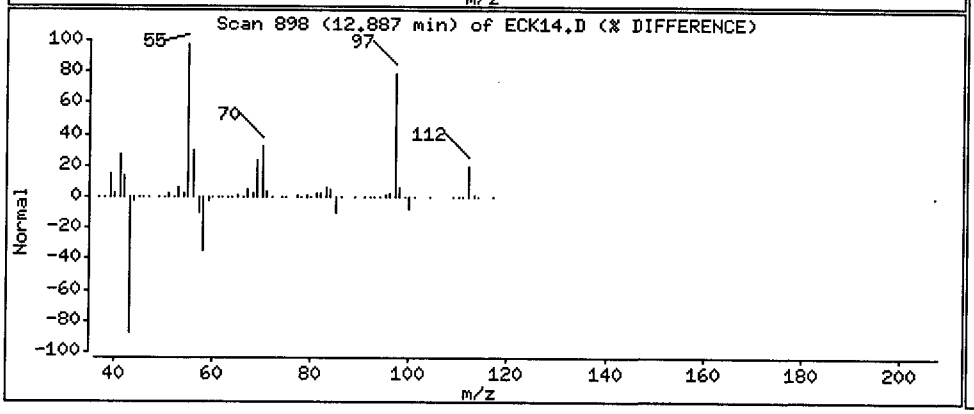












[1,1,2-Trichloroethane; 12; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

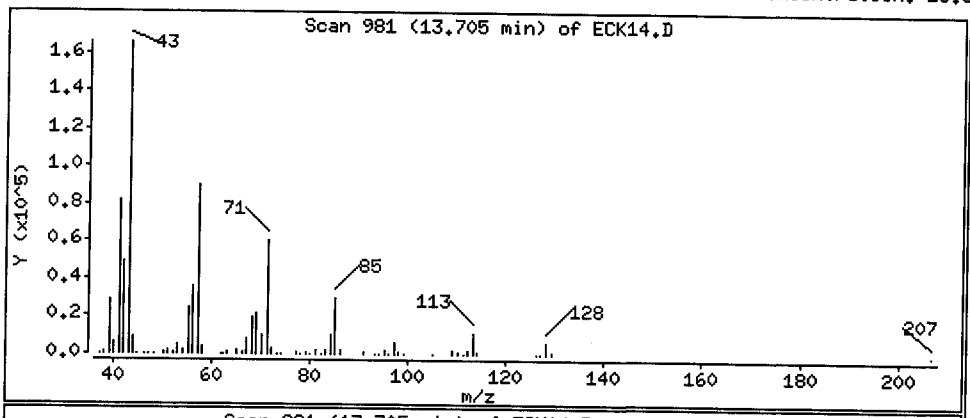
Operator: VOC

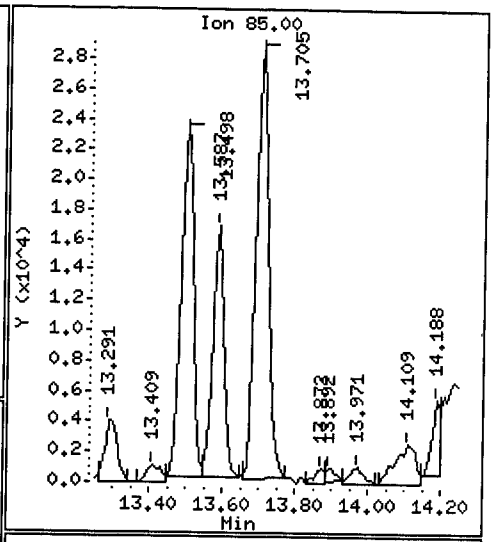
Column phase: RTX 624

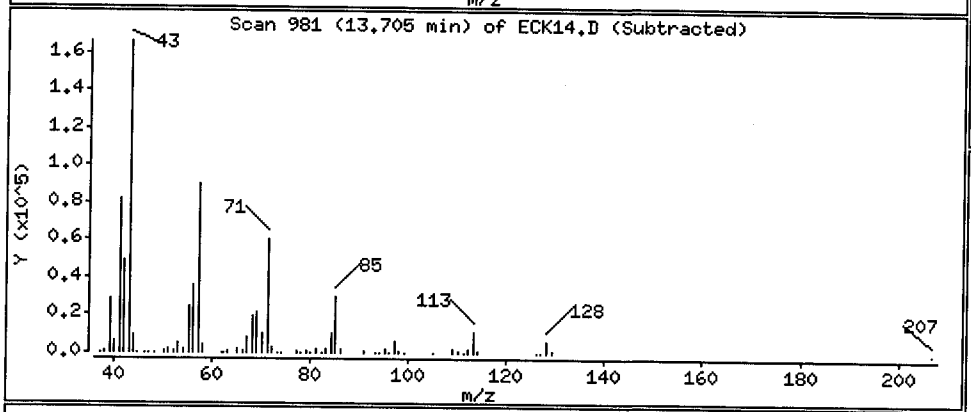
Column diameter: 0.25

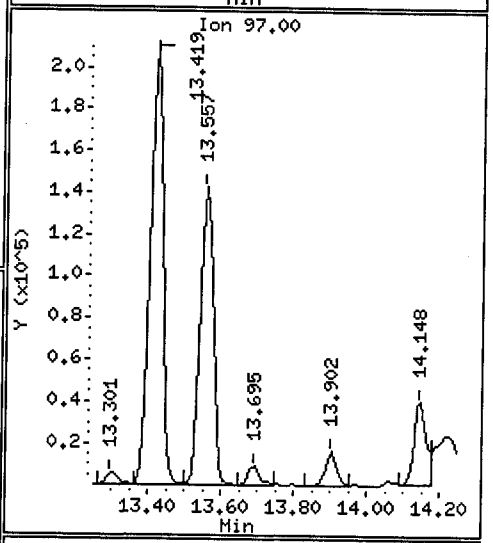
48 1,1,2-Trichloroethane

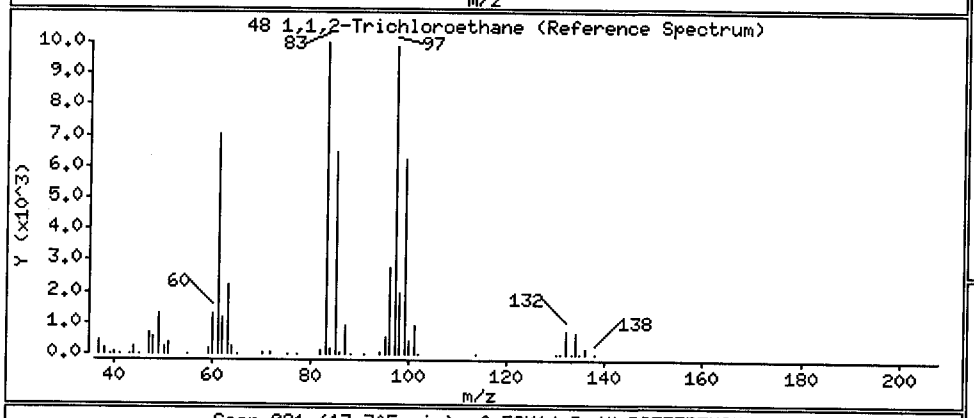
Concentration: 13.6582 UG/L

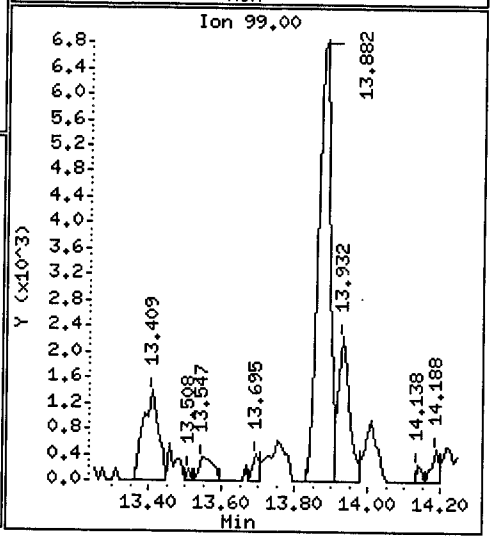


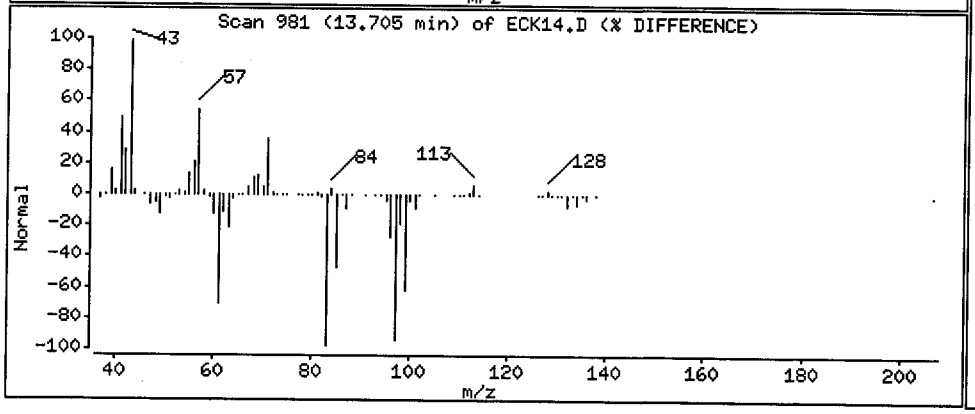












[2-Hexanone; 0.72 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

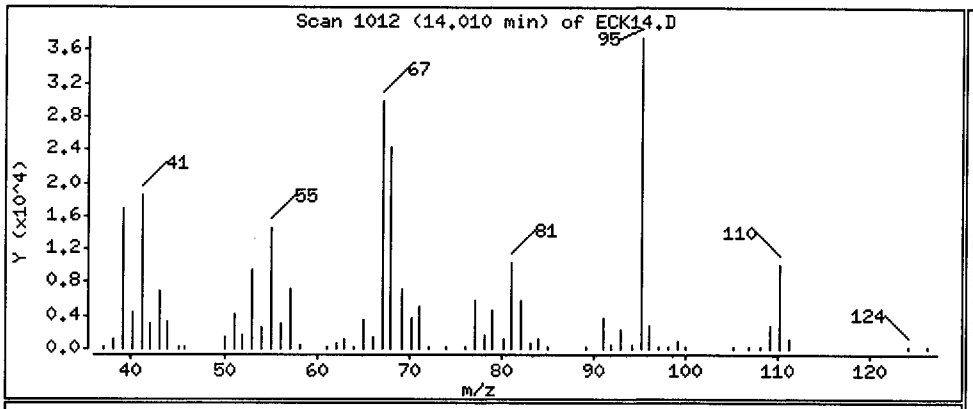
Operator: VOC

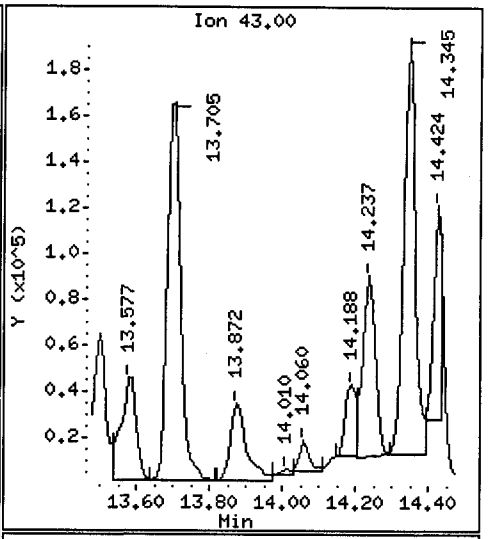
Column phase: RTX 624

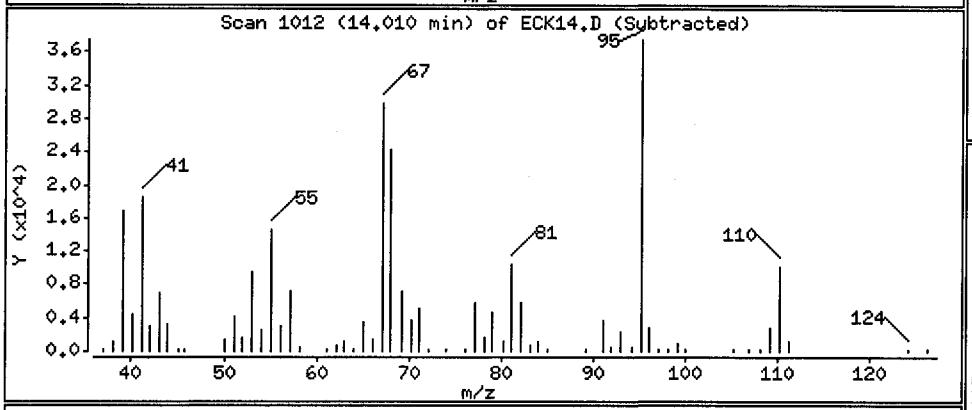
Column diameter: 0.25

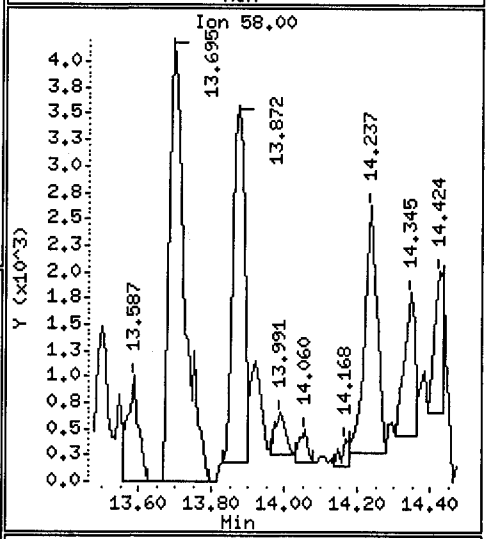
50 2-Hexanone

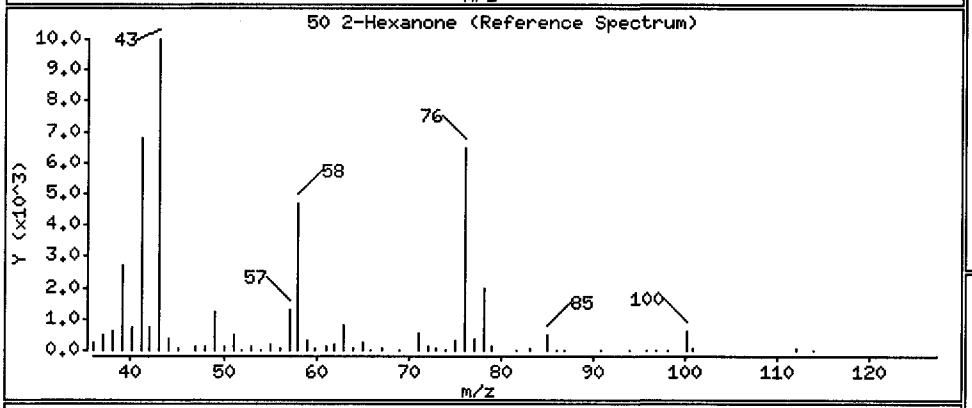
Concentration: 0.8179 UG/L

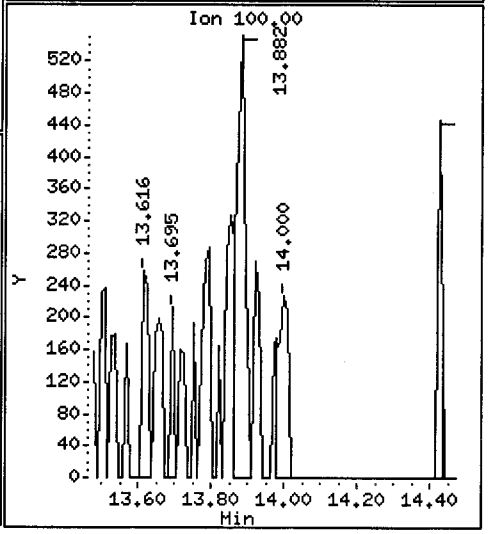


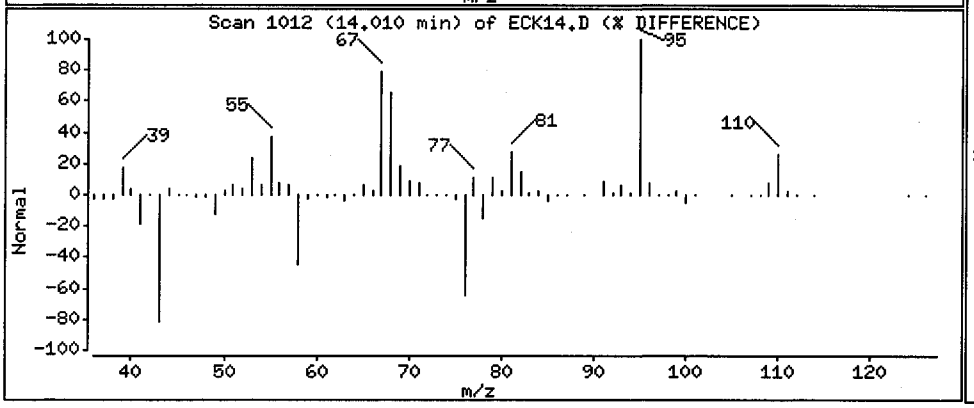












[Chlorobenzene; 0.48 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

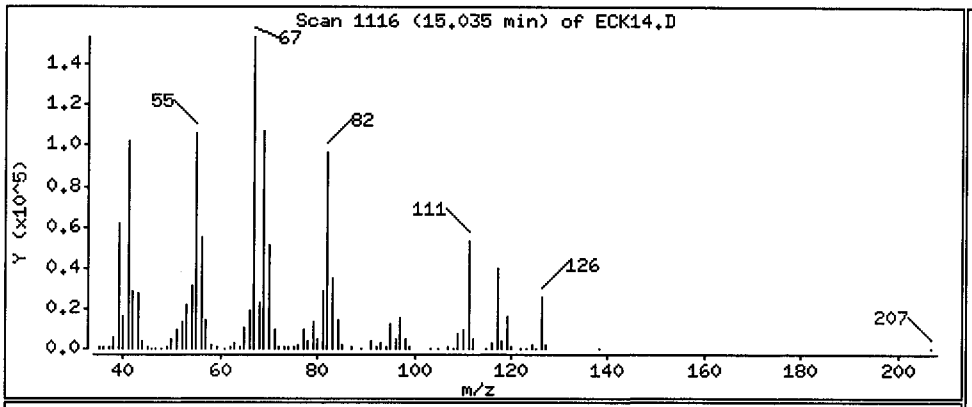
Operator: VOC

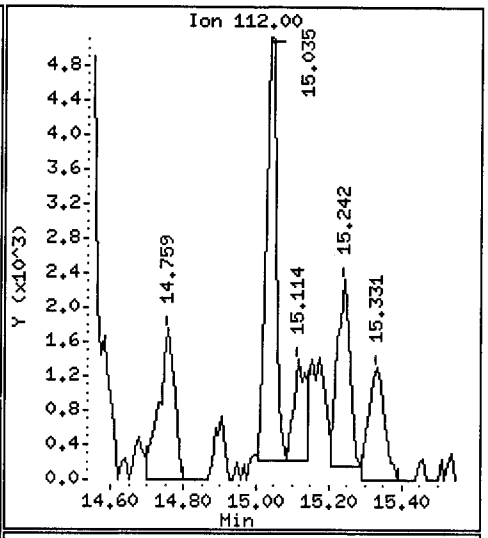
Column phase: RTX 624

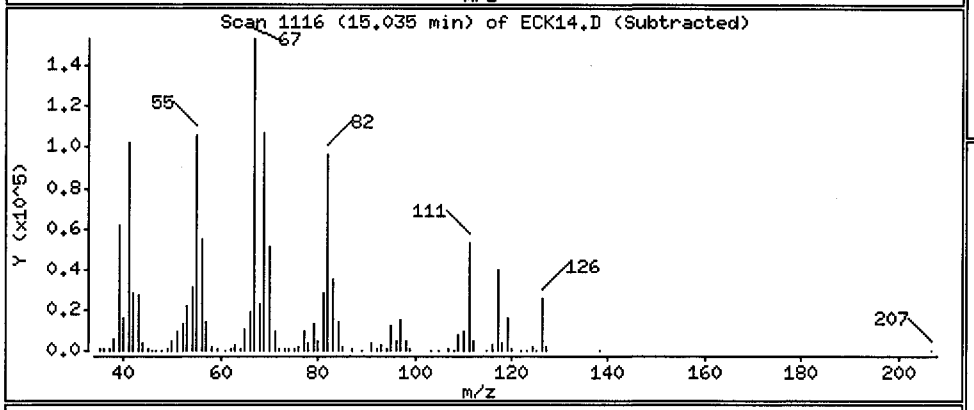
Column diameter: 0.25

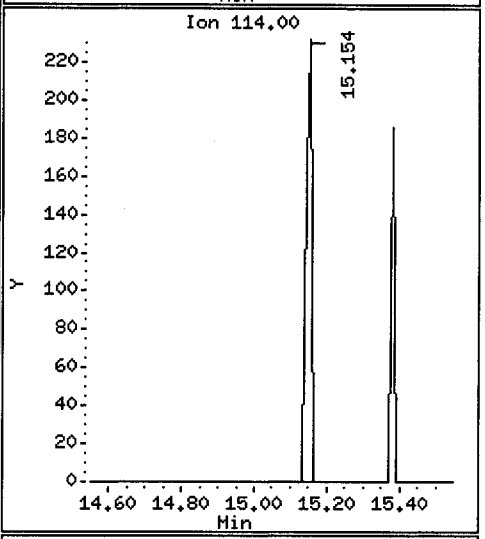
55 Chlorobenzene

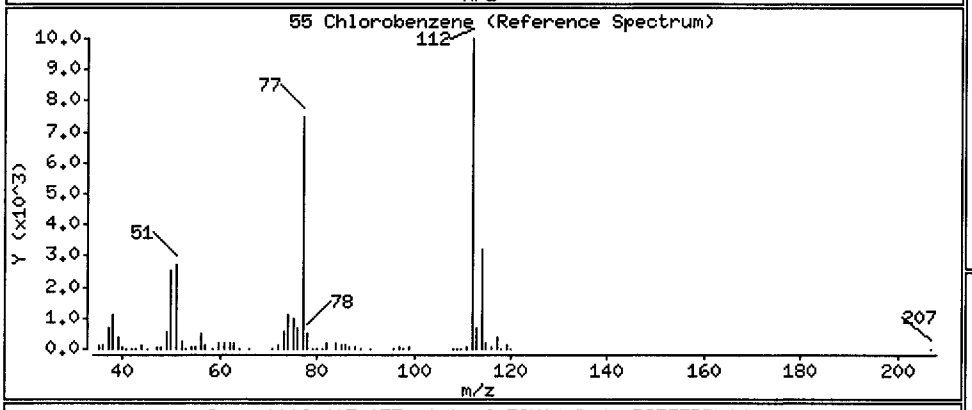
Concentration: 0.5443 UG/L

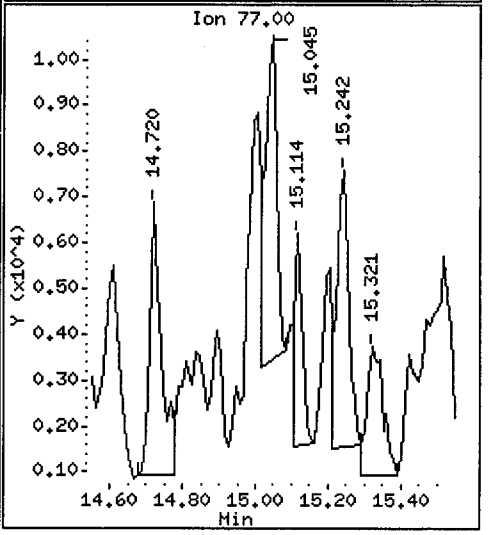


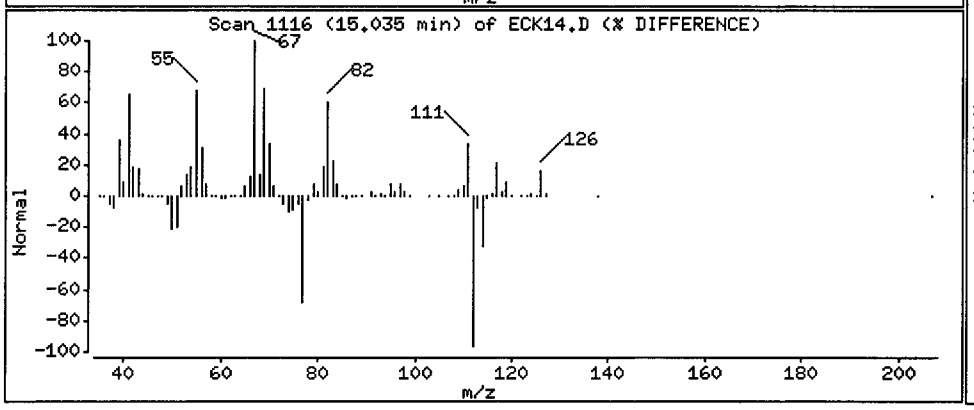












[m,p-Xylenes; 1.1 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

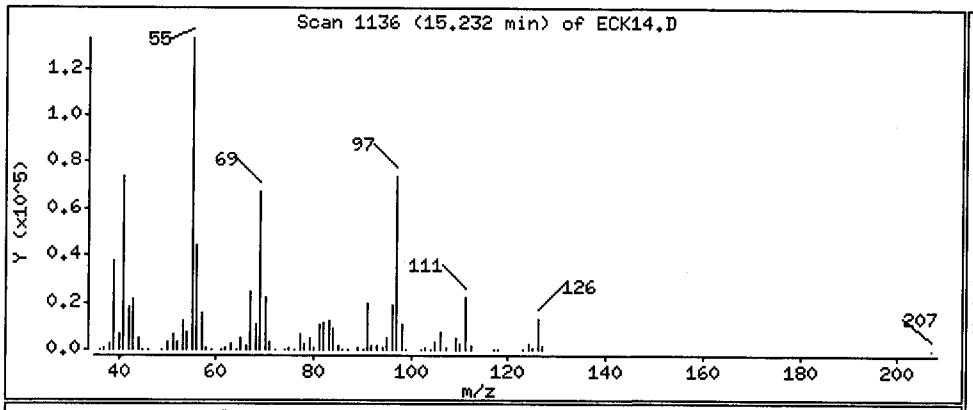
Operator: VOC

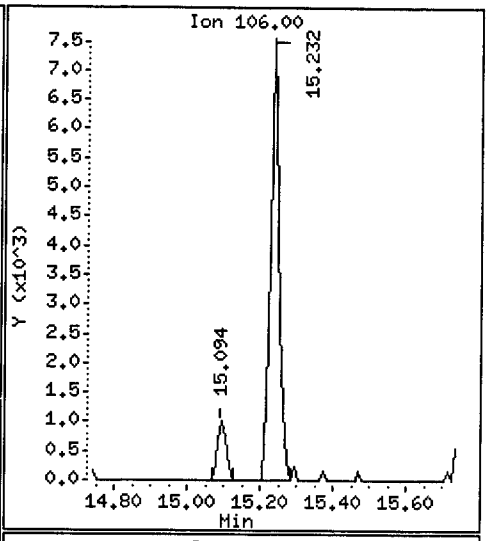
Column phase: RTX 624

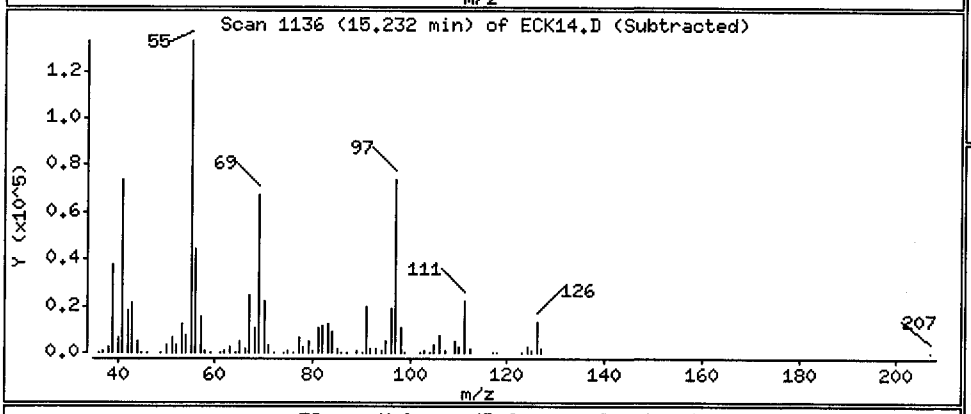
Column diameter: 0.25

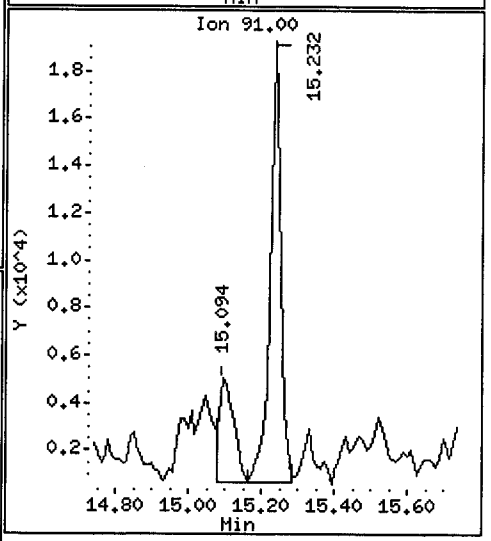
58 m,p-Xylenes

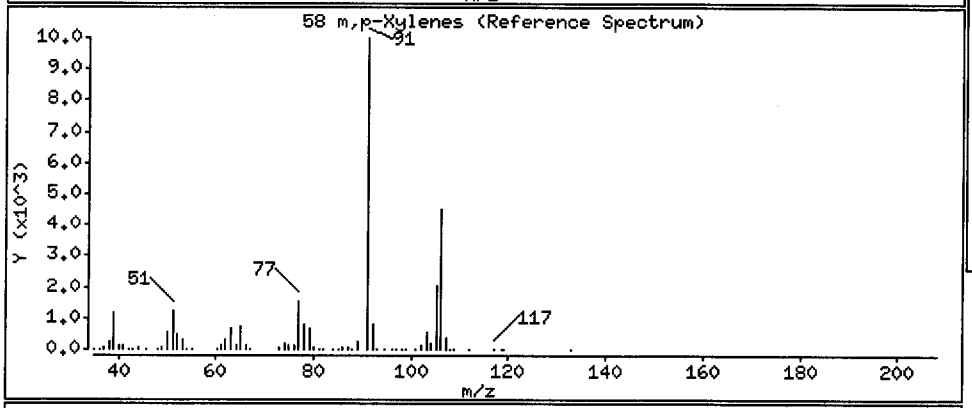
Concentration: 1.2098 UG/L

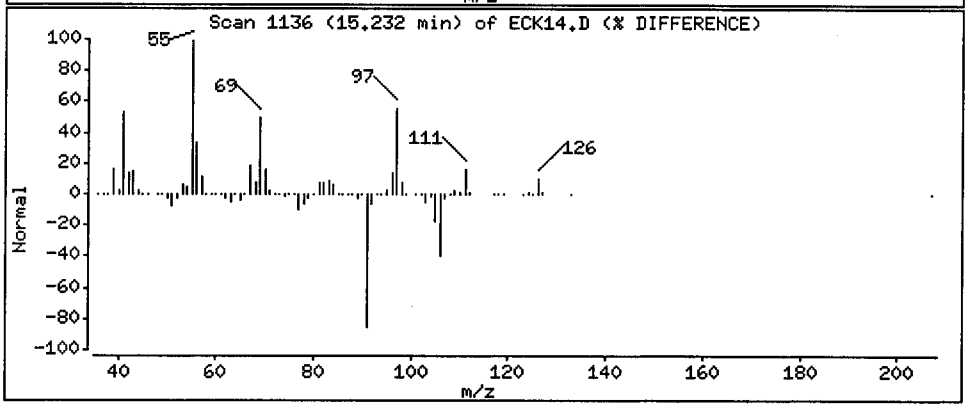












[o-Xylene; 0.97 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

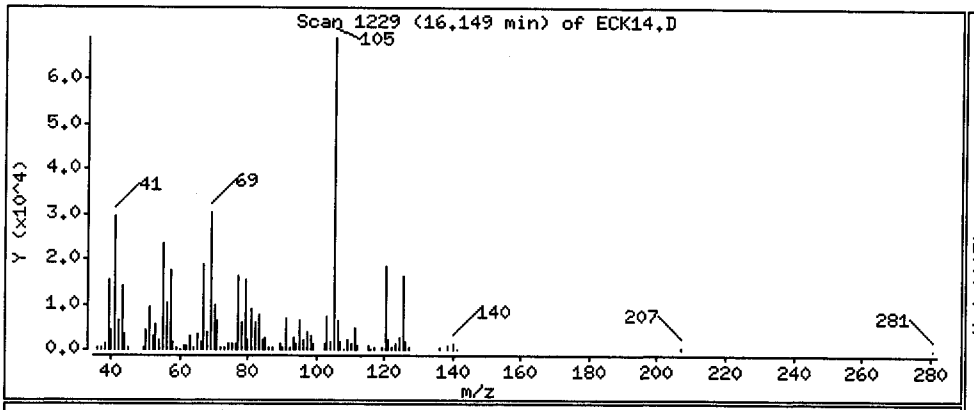
Operator: VOC

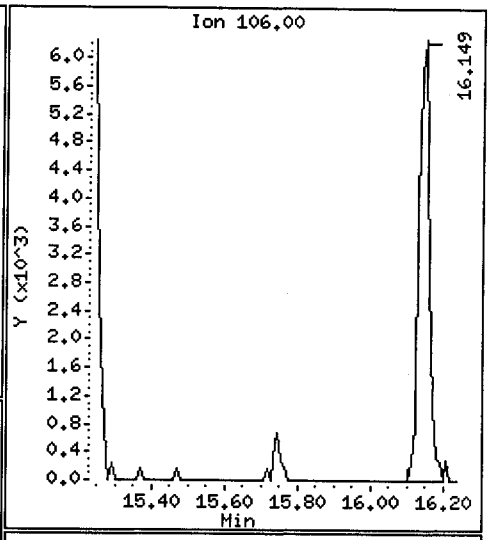
Column phase: RTX 624

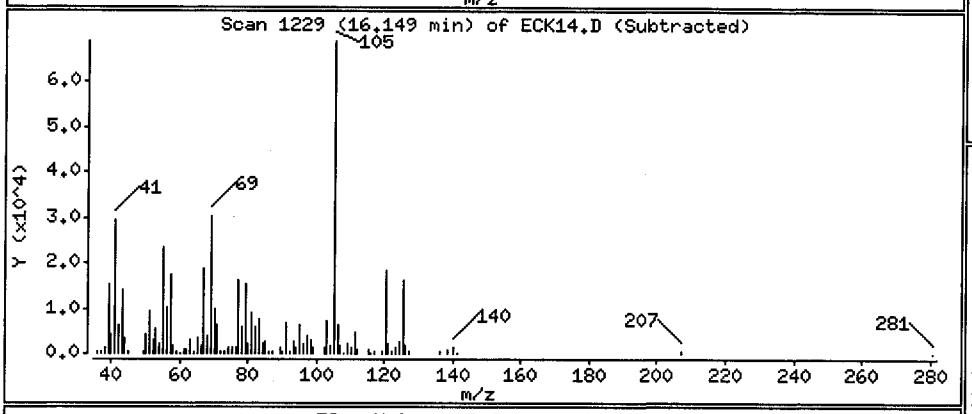
Column diameter: 0.25

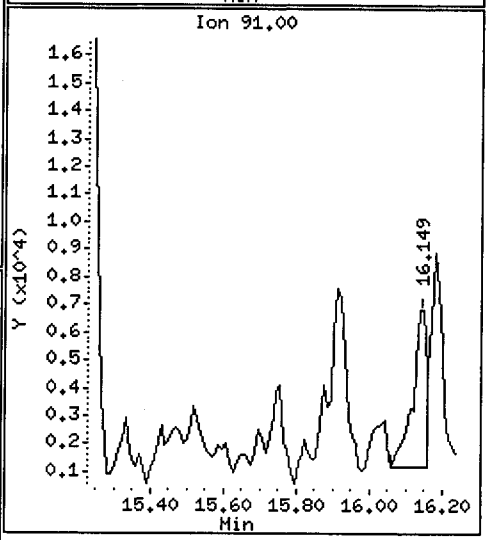
59 o-Xylene

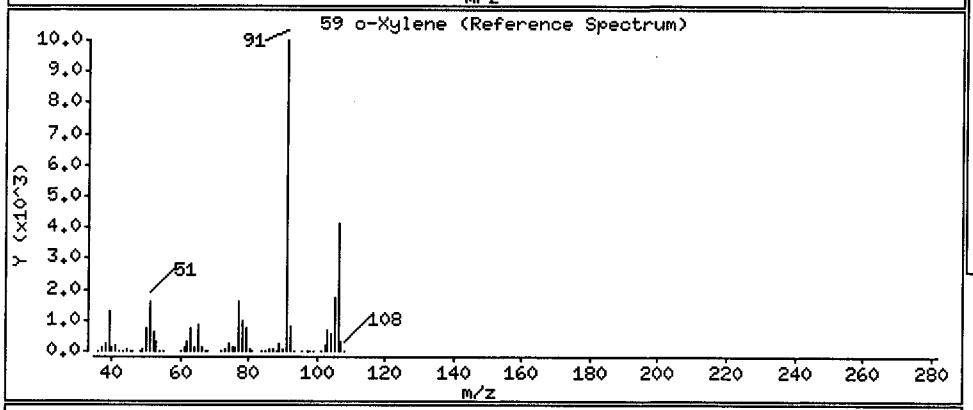
Concentration: 1.1019 UG/L

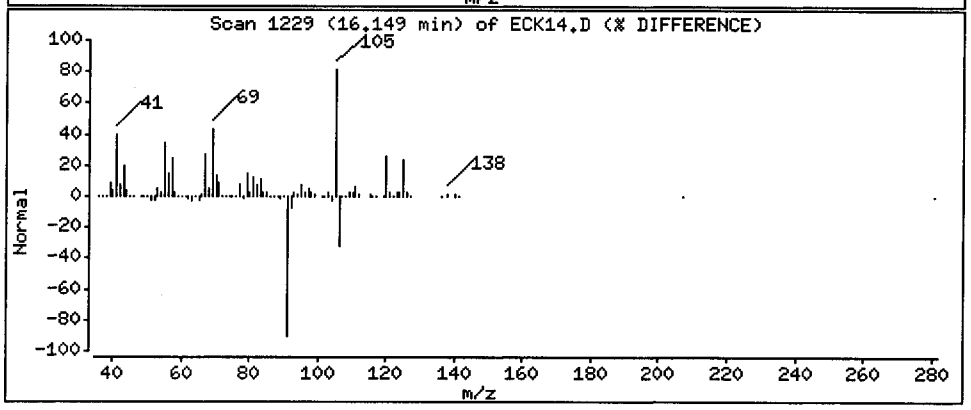












[Isopropylbenzene; 4.4 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

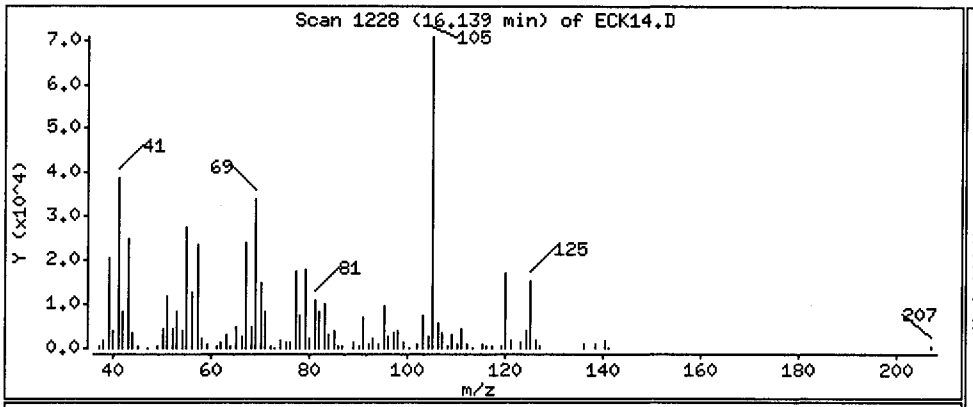
Operator: VOC

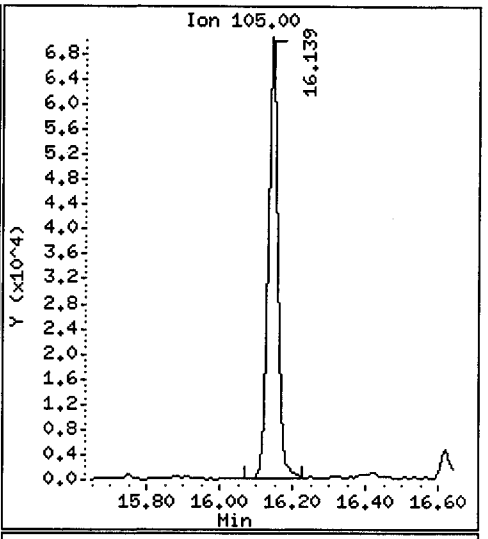
Column phase: RTX 624

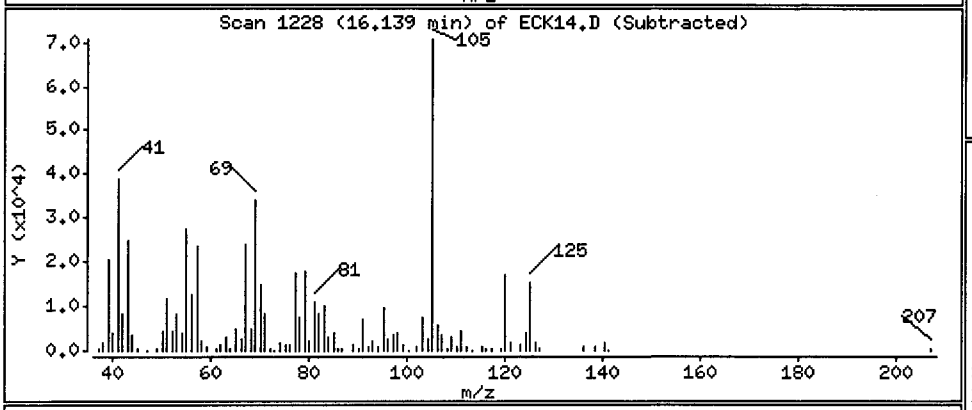
Column diameter: 0.25

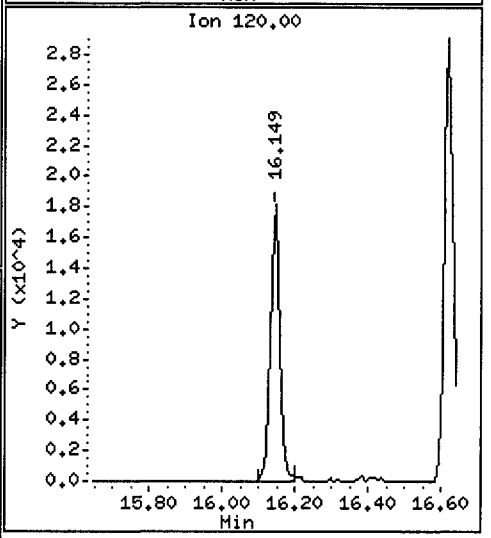
62 Isopropylbenzene

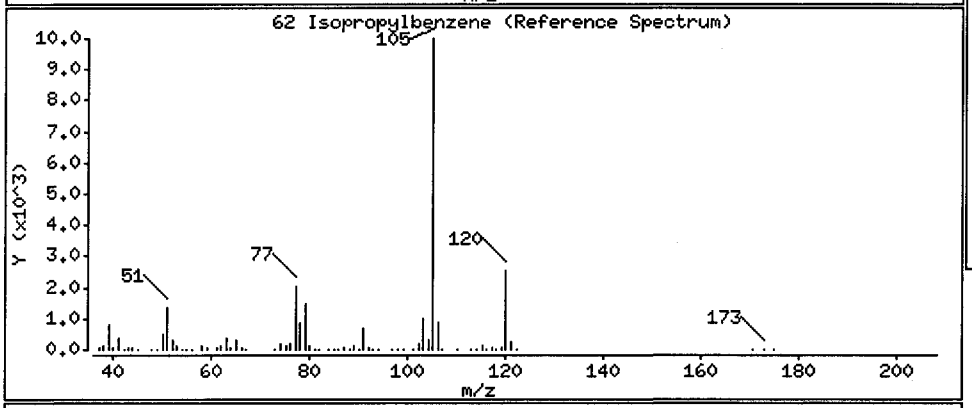
Concentration: 4.9879 UG/L

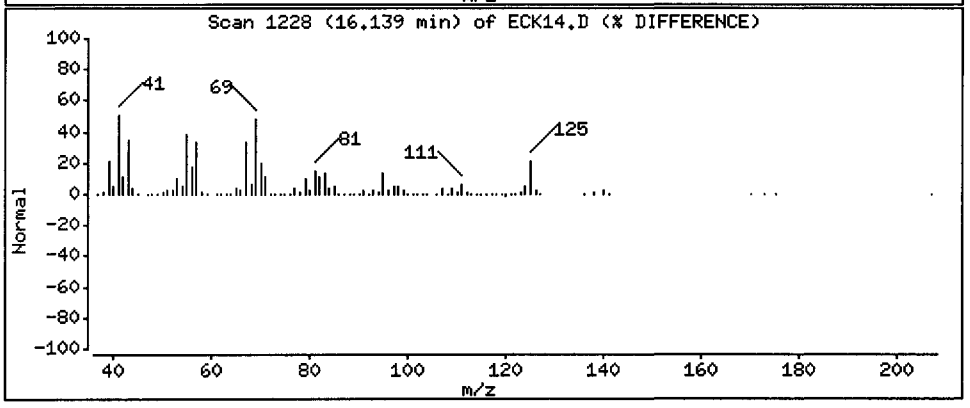












[1,1,2,2-Tetrachloroethane; 1.1 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

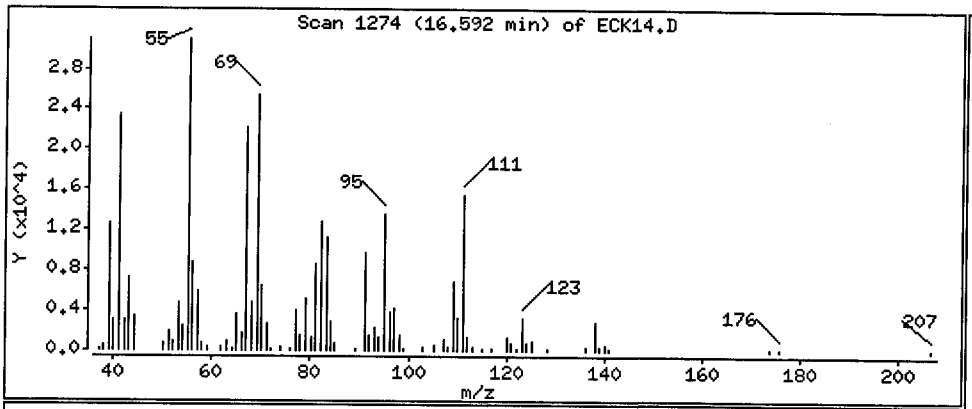
Operator: VOC

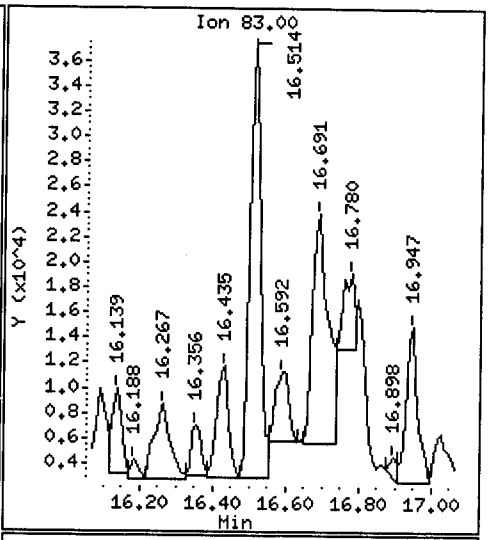
Column phase: RTX 624

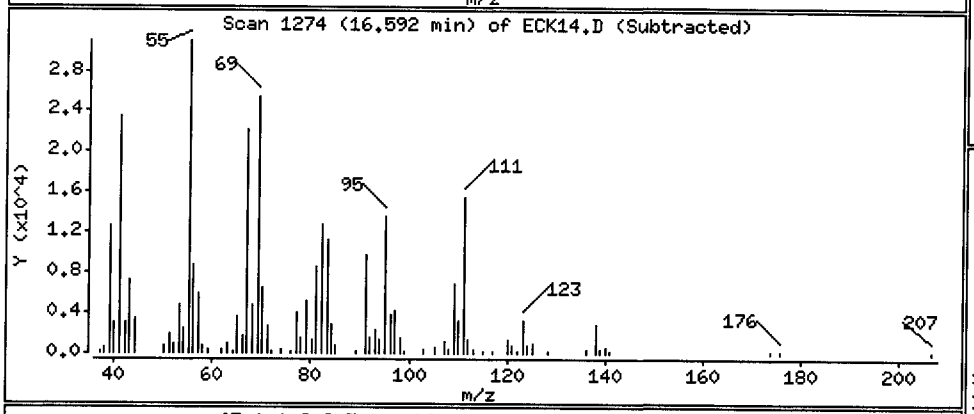
Column diameter: 0.25

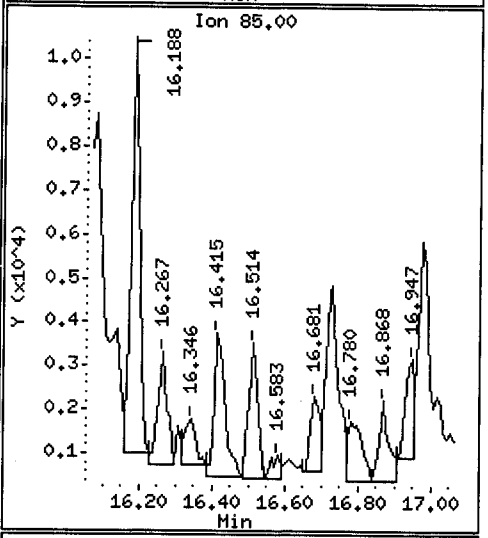
65 1,1,2,2-Tetrachloroethane

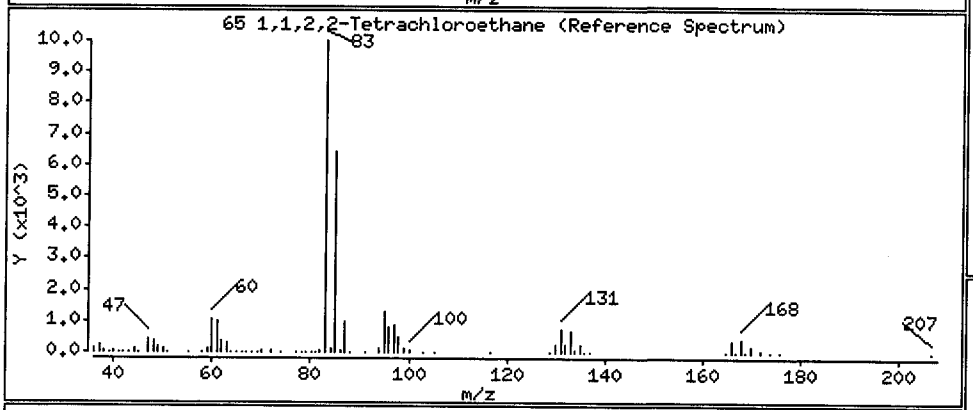
Concentration: 1.2098 UG/L

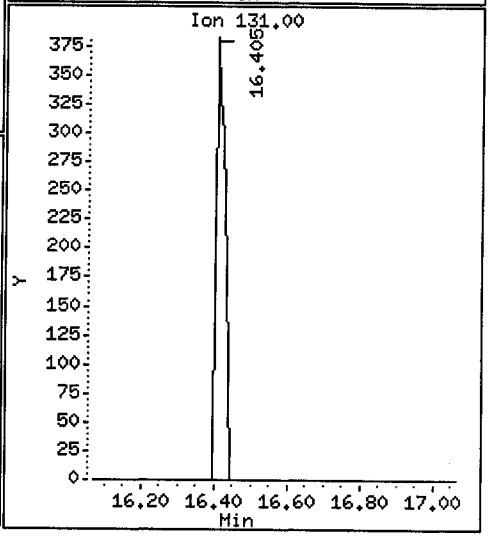


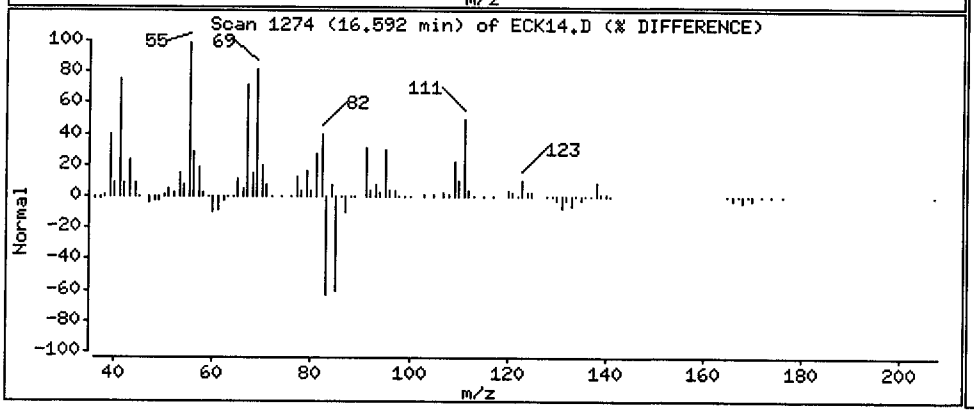












[Propylbenzene; 6.4; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

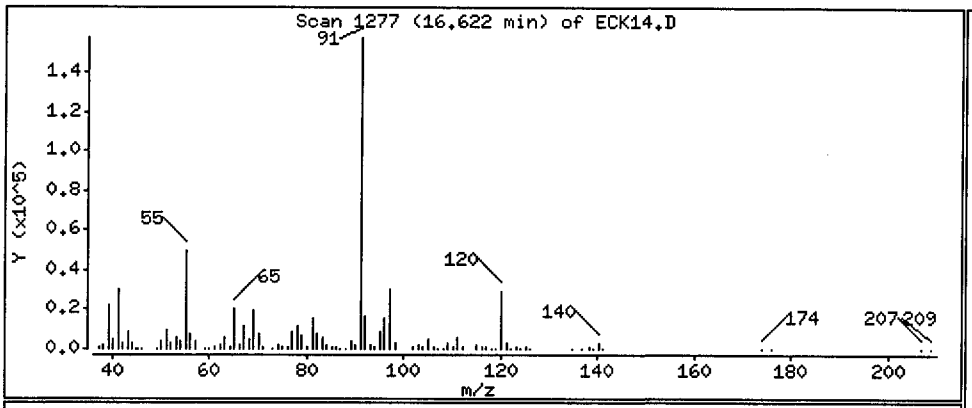
Operator: VOC

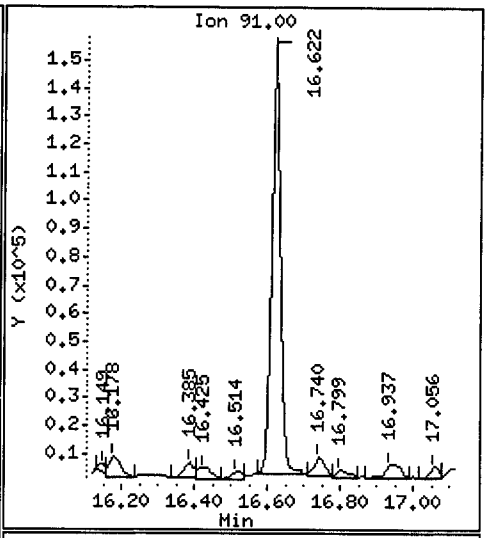
Column phase: RTX 624

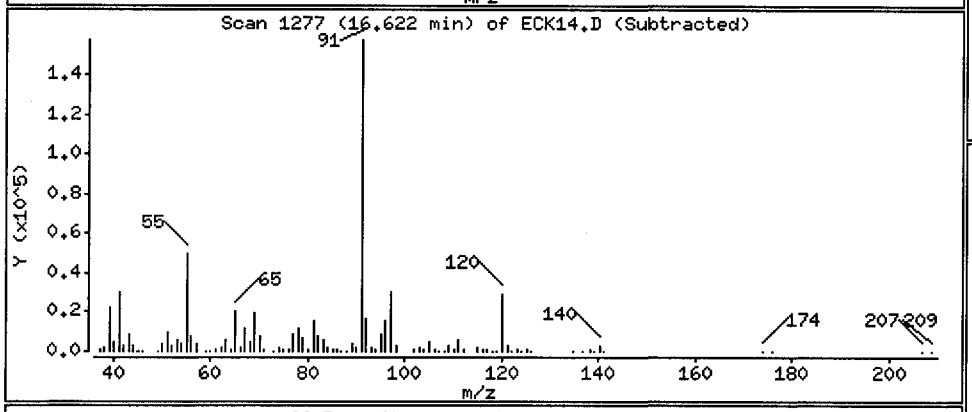
Column diameter: 0.25

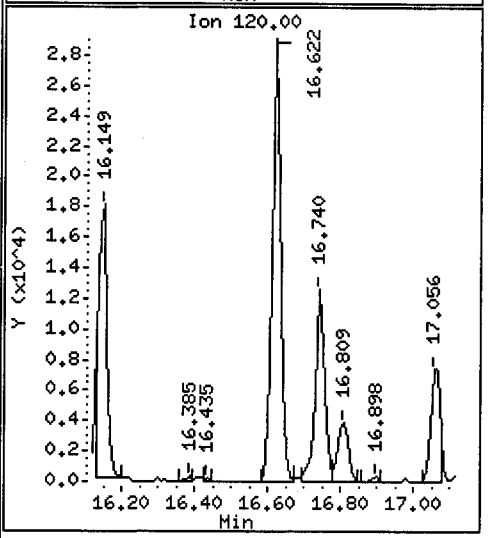
66 Propylbenzene

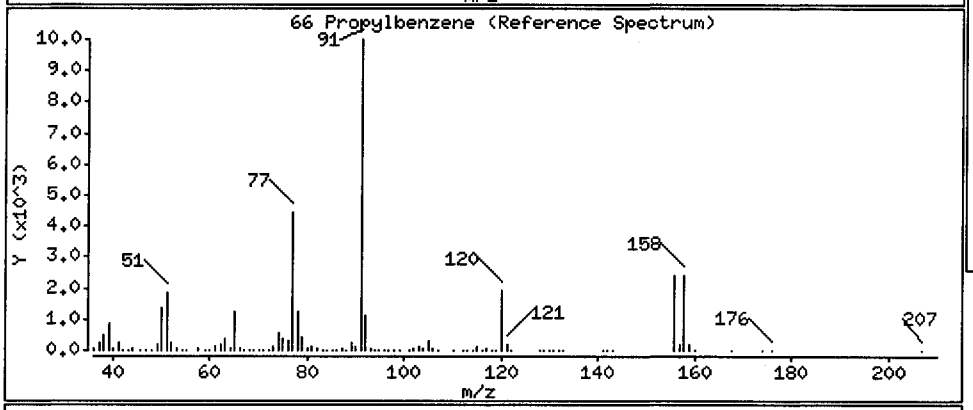
Concentration: 7.2667 UG/L

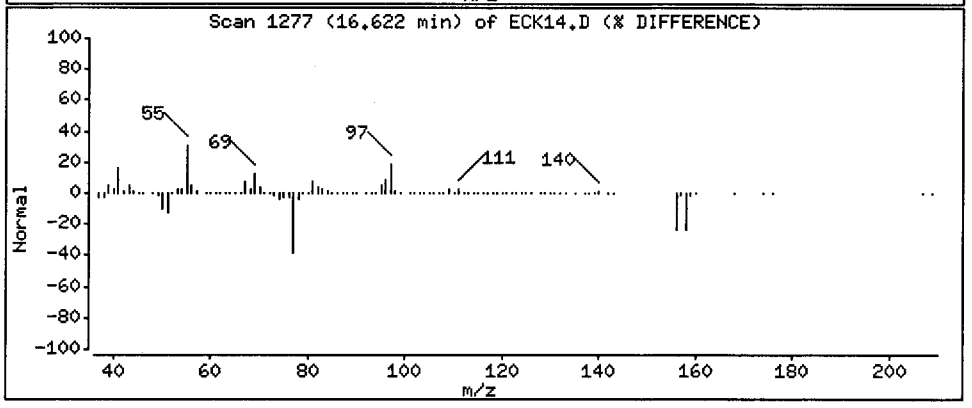












[1,3,5-Trimethylbenzene; 0.55 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

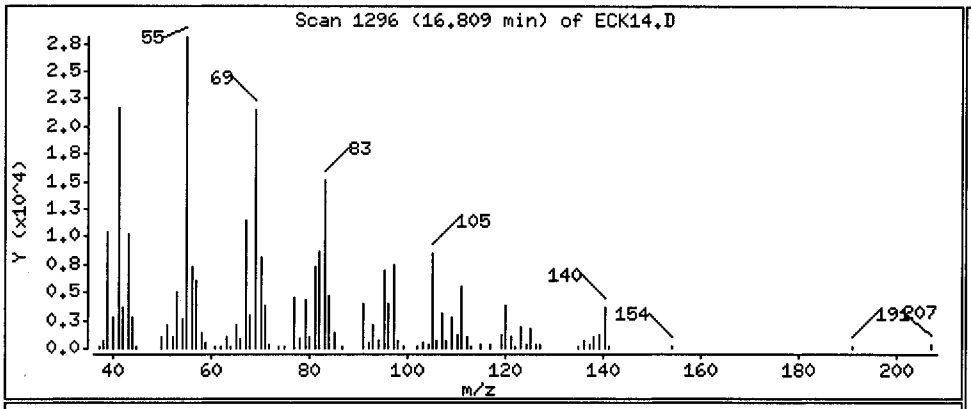
Operator: VOC

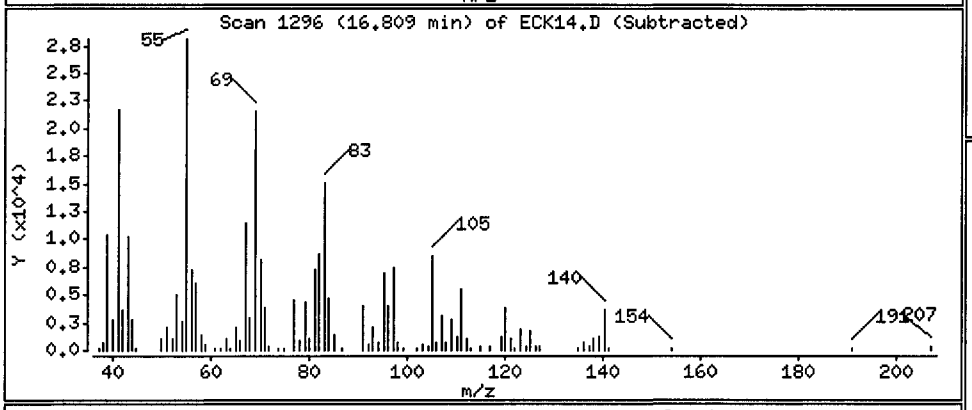
Column phase: RTX 624

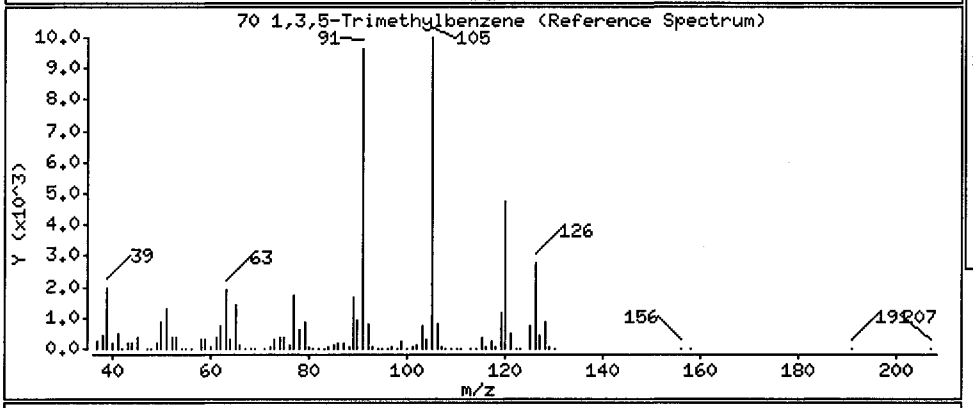
Column diameter: 0.25

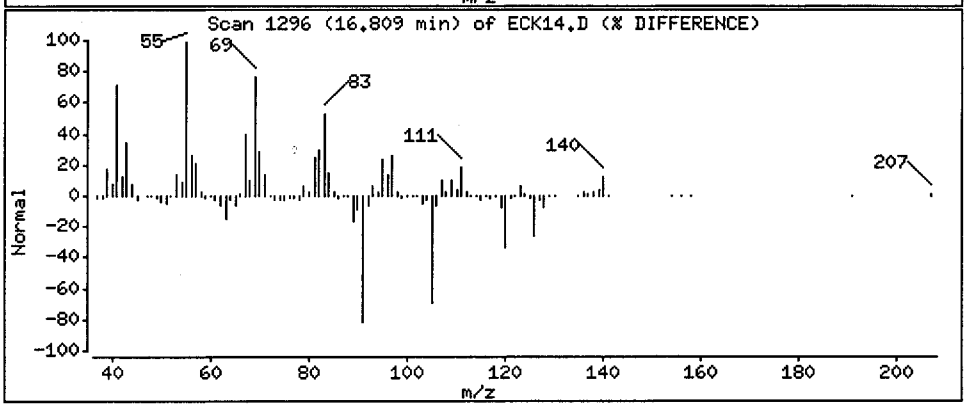
70 1,3,5-Trimethylbenzene

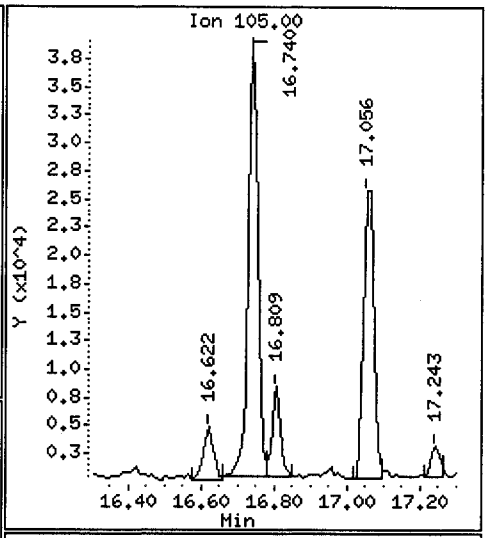
Concentration: 0.6283 UG/L

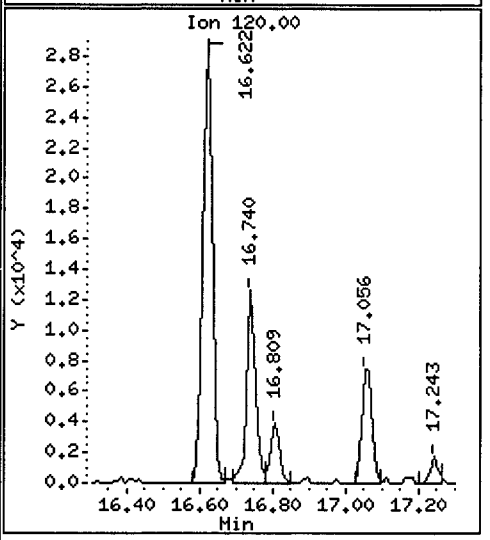












[4-Chlorotoluene; 0.65 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

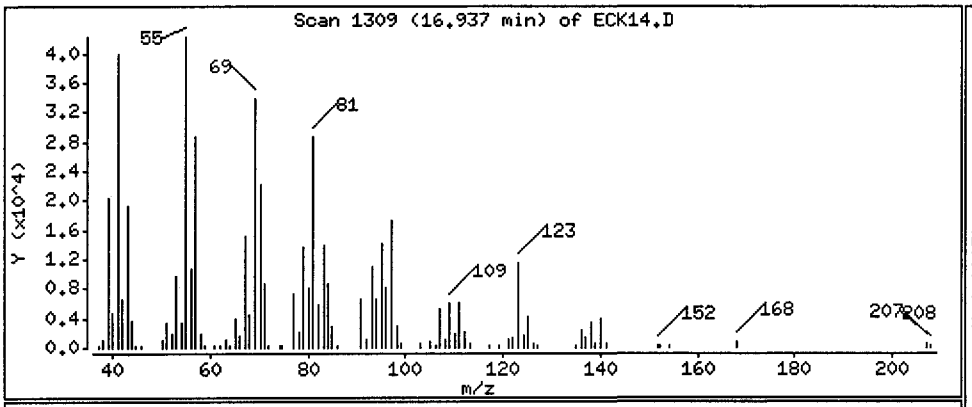
Operator: VOC

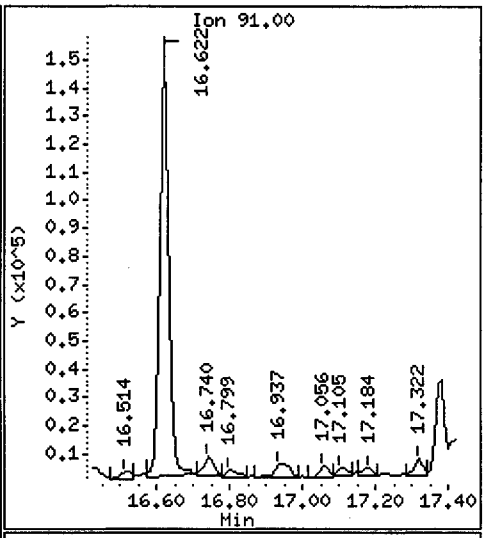
Column phase: RTX 624

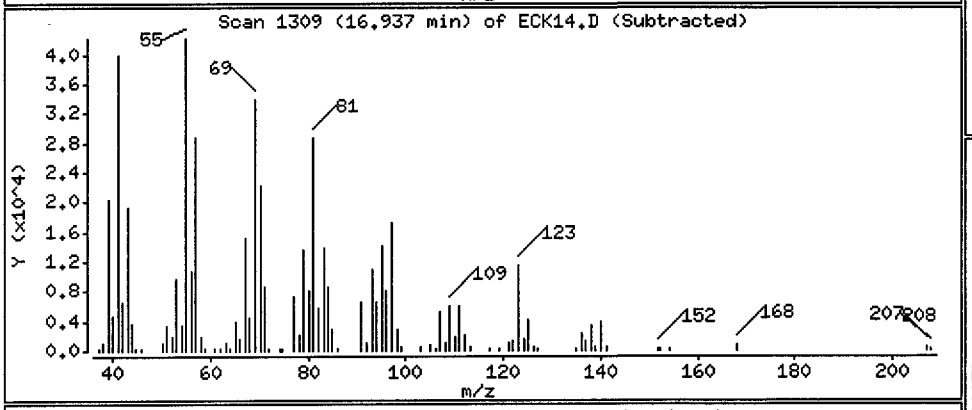
Column diameter: 0.25

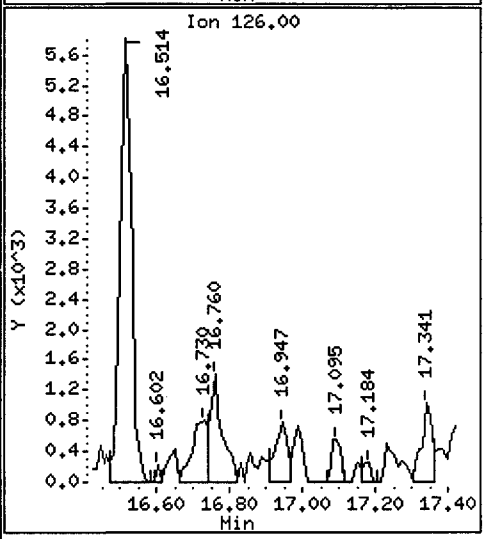
71 4-Chlorotoluene

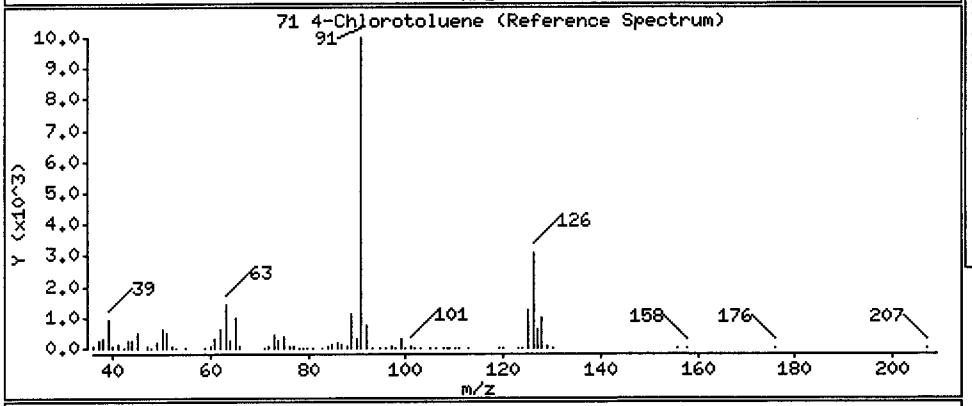
Concentration: 0.7368 UG/L

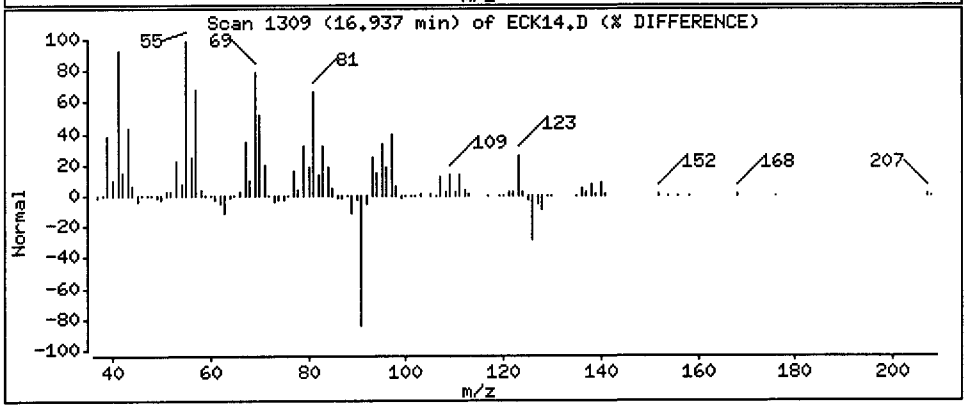












[sec-Butylbenzene; 3.7 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

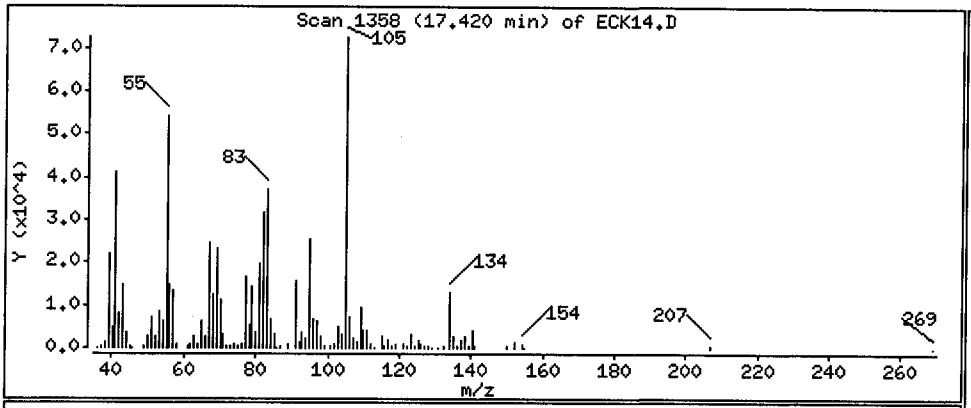
Operator: VOC

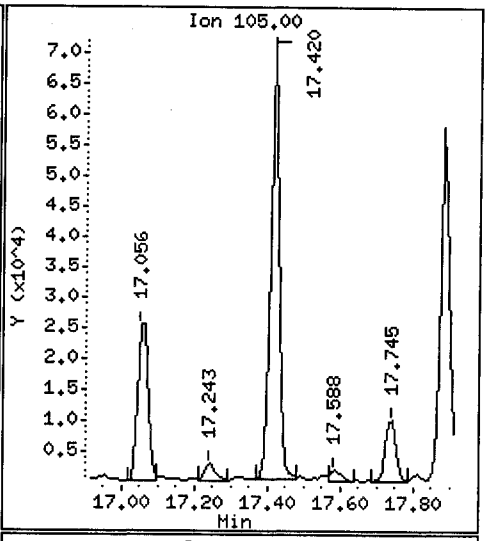
Column phase: RTX 624

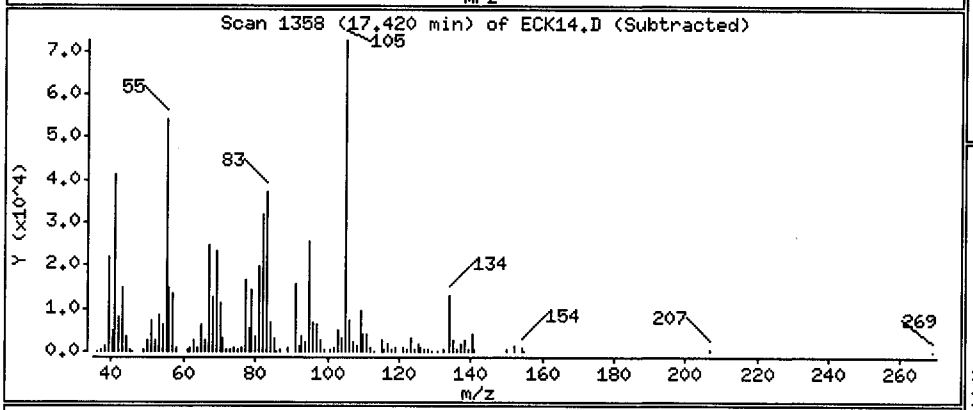
Column diameter: 0.25

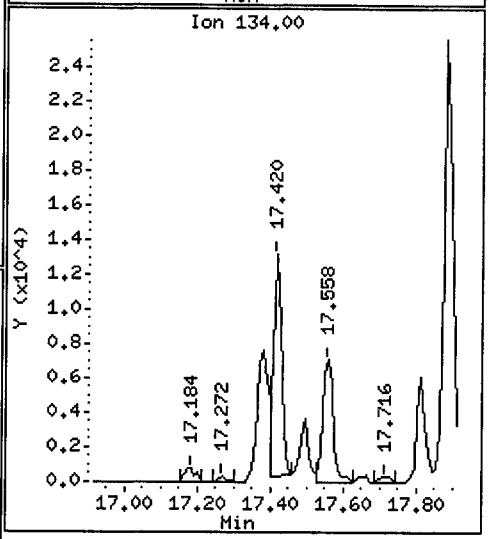
74 sec-Butylbenzene

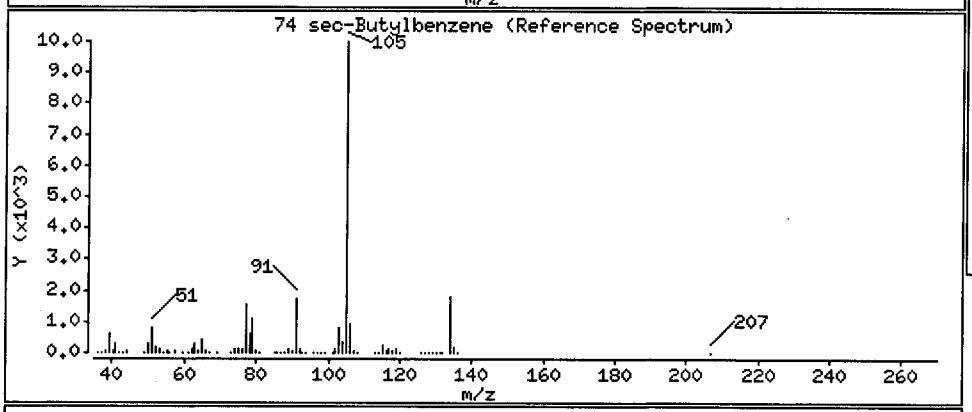
Concentration: 4.2249 UG/L

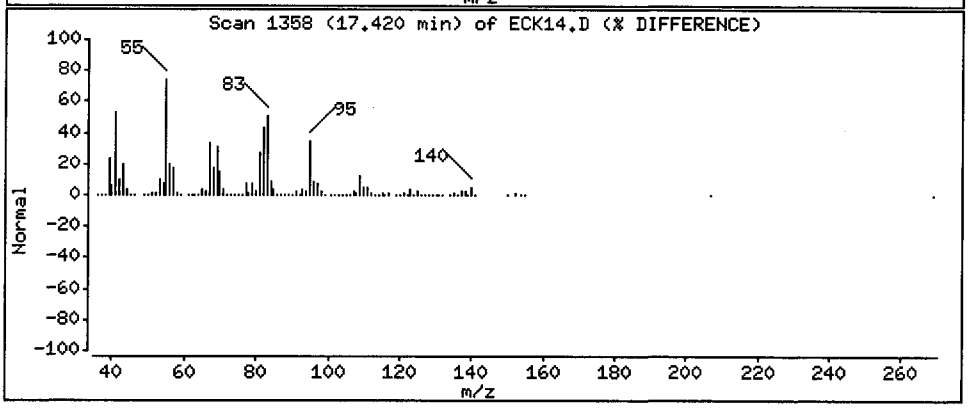












[para-Isopropyl Toluene; 2.0 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

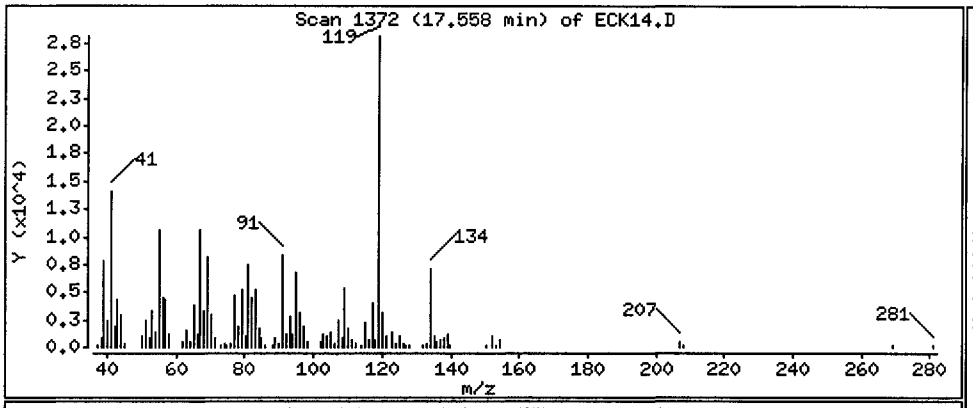
Operator: VOC

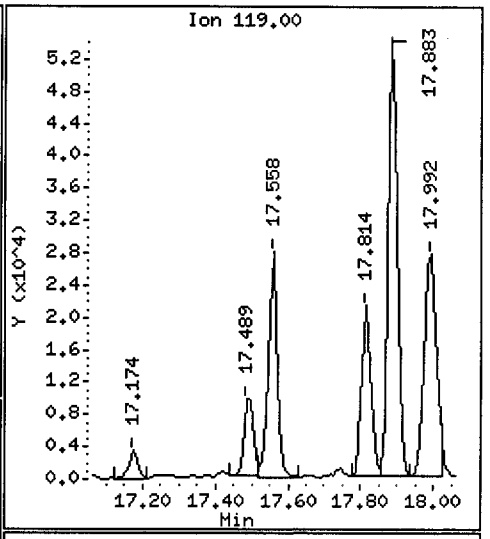
Column phase: RTX 624

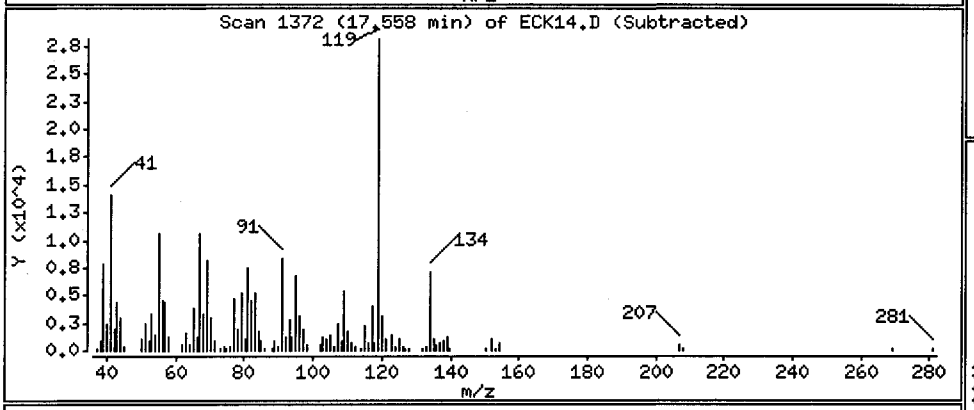
Column diameter: 0.25

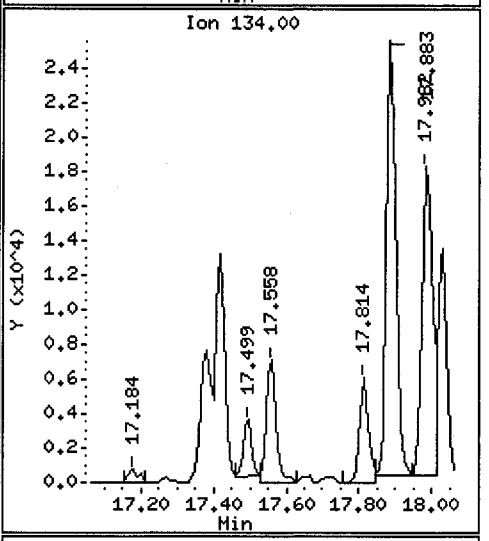
75 para-Isopropyl Toluene

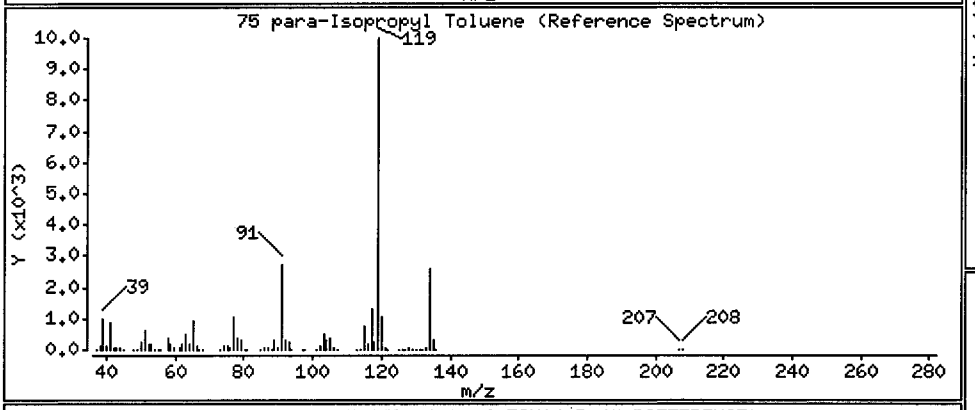
Concentration: 2.2654 UG/L

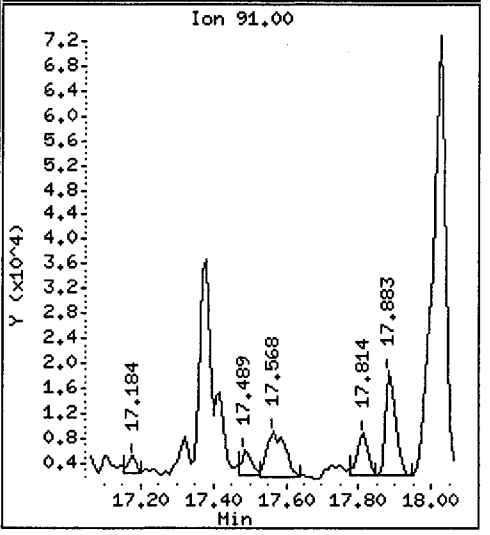


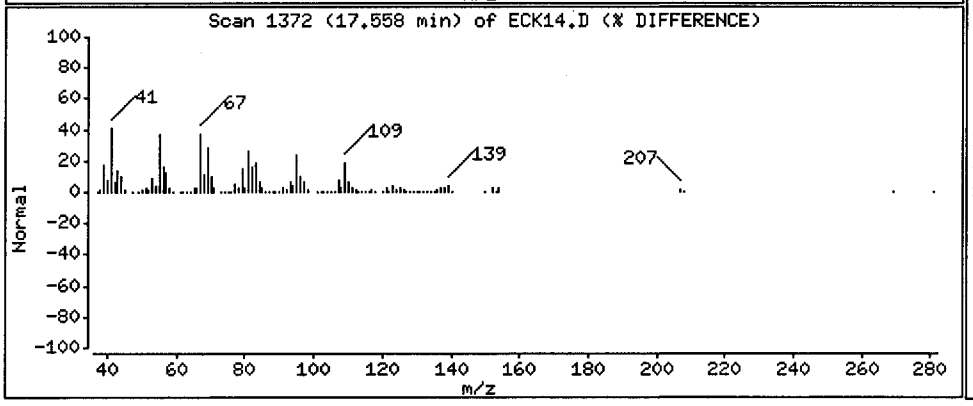












[n-Butylbenzene; 7.2; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

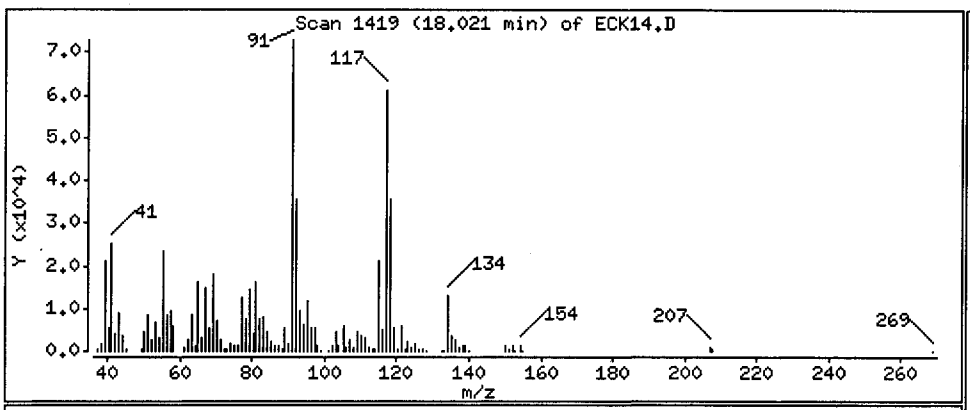
Operator: VOC

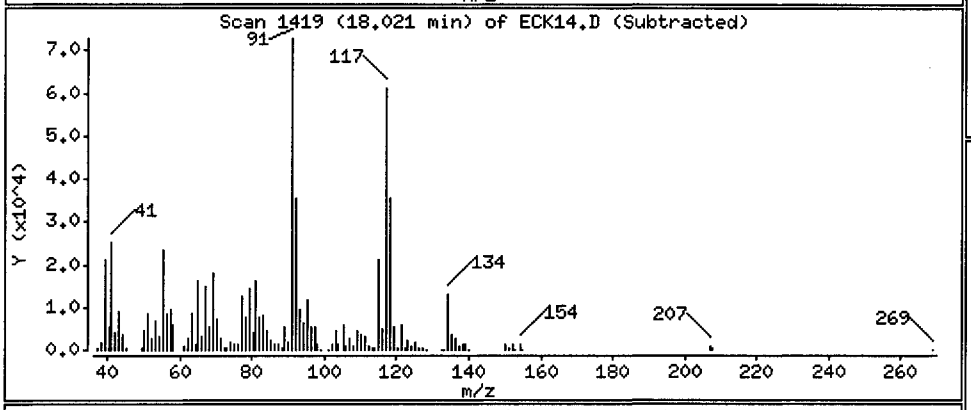
Column phase: RTX 624

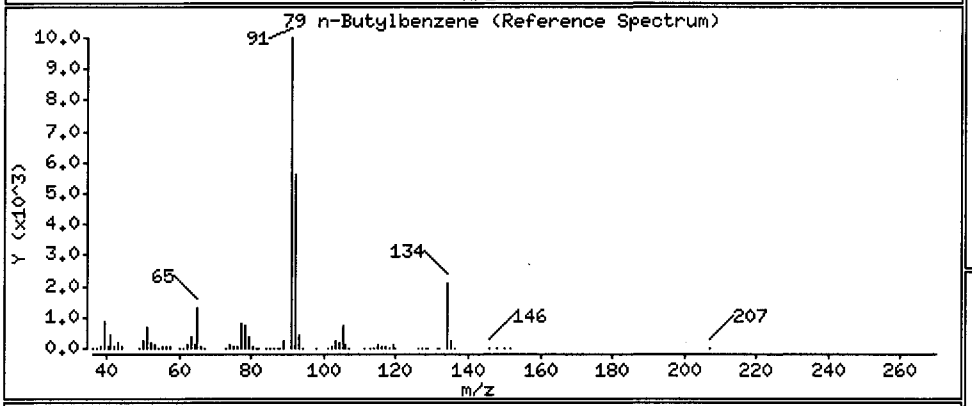
Column diameter: 0.25

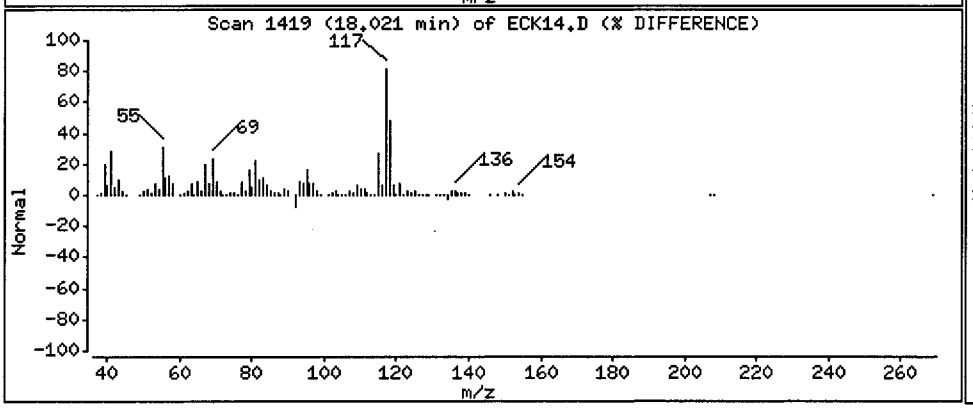
79 n-Butylbenzene

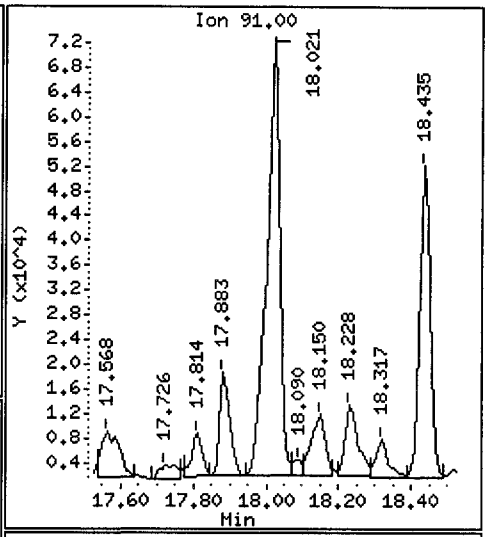
Concentration: 8.2363 UG/L

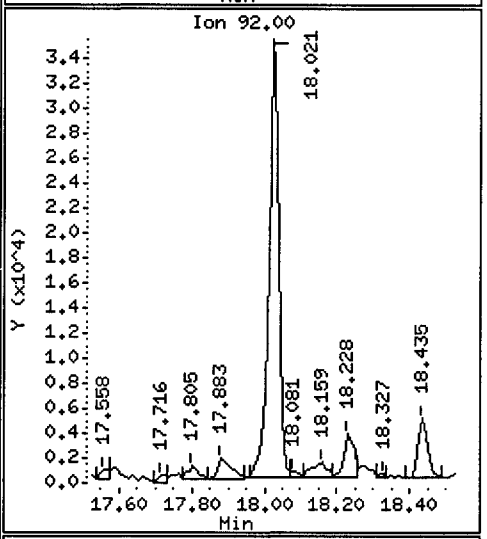


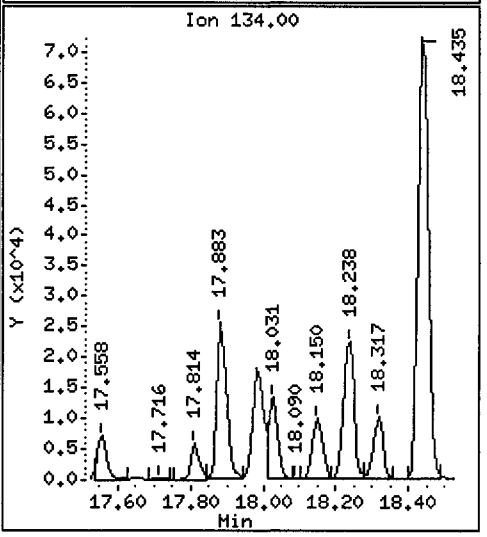












[1,2-Dibromo-3-Chloropropane; 1.3 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

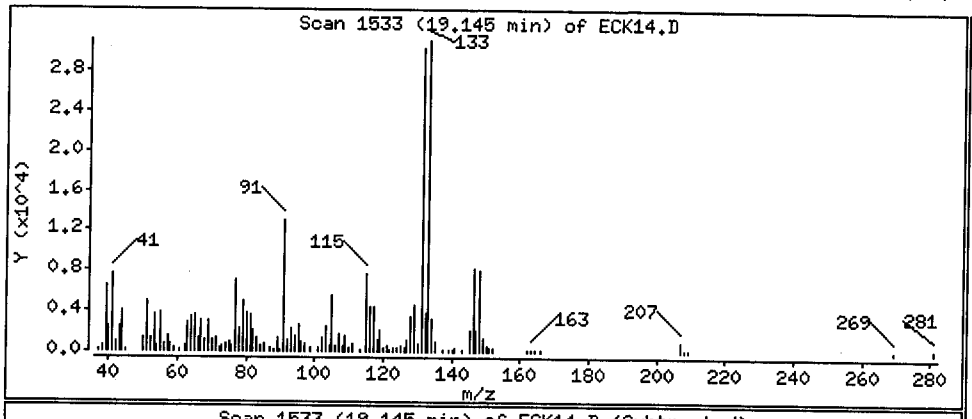
Operator: VOC

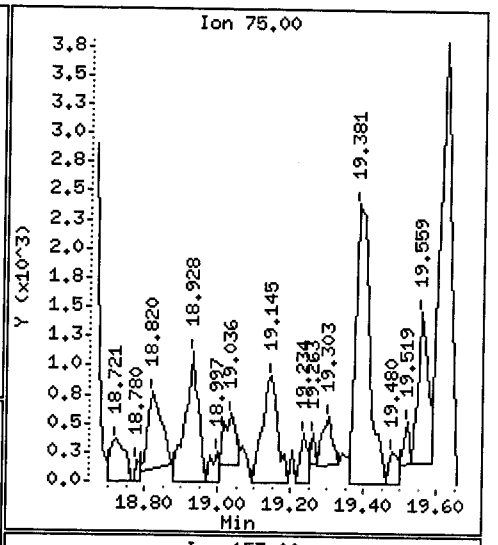
Column phase: RTX 624

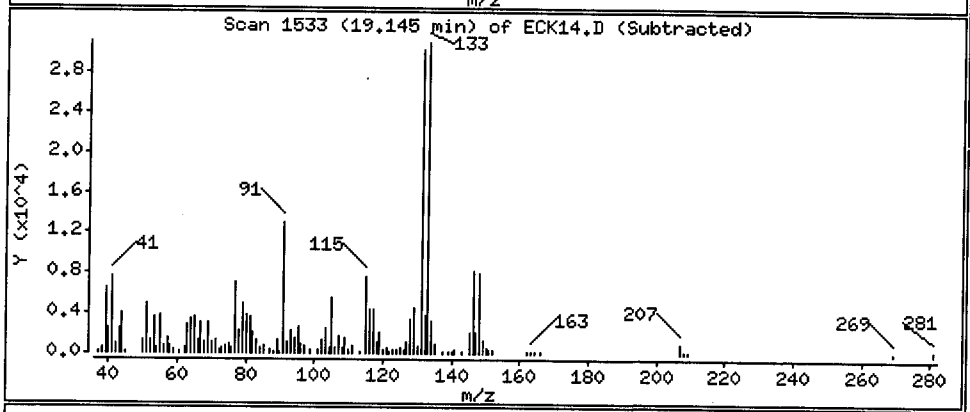
Column diameter: 0.25

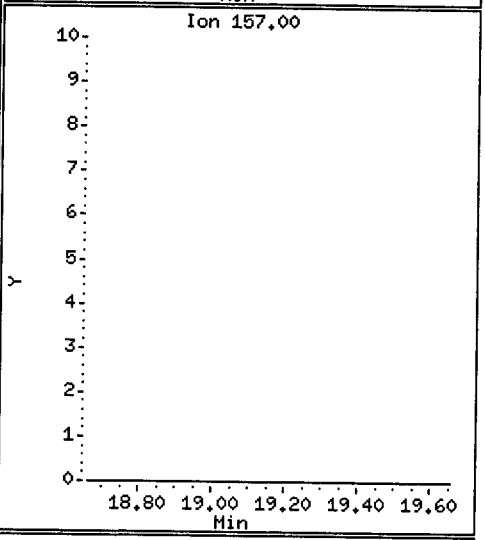
81 1,2-Dibromo-3-Chloropropane

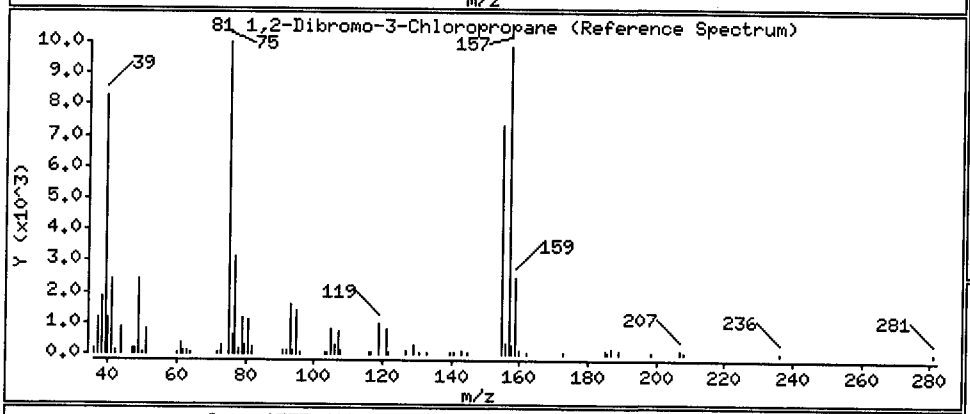
Concentration: 1.4408 UG/L

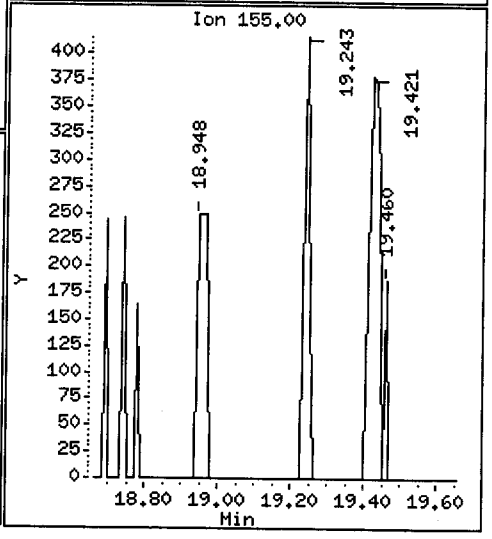


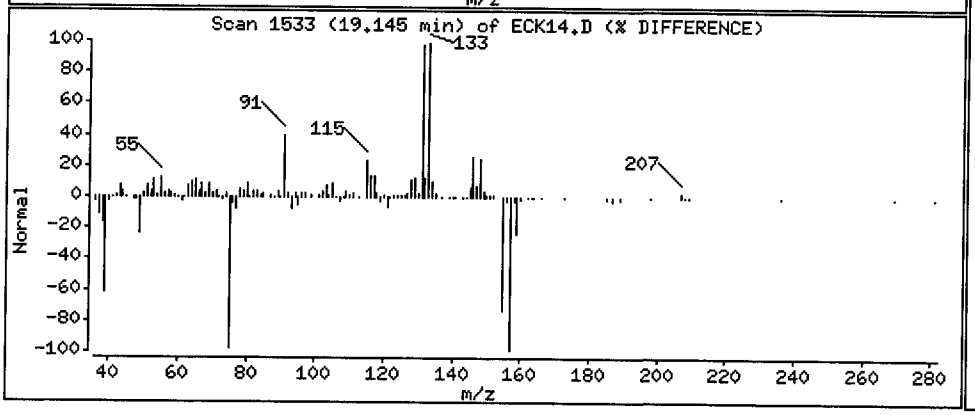












[Naphthalene; 2.3 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK14.D

Date : 20-MAR-2008 15:24

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-002

Purge Volume: 5.0

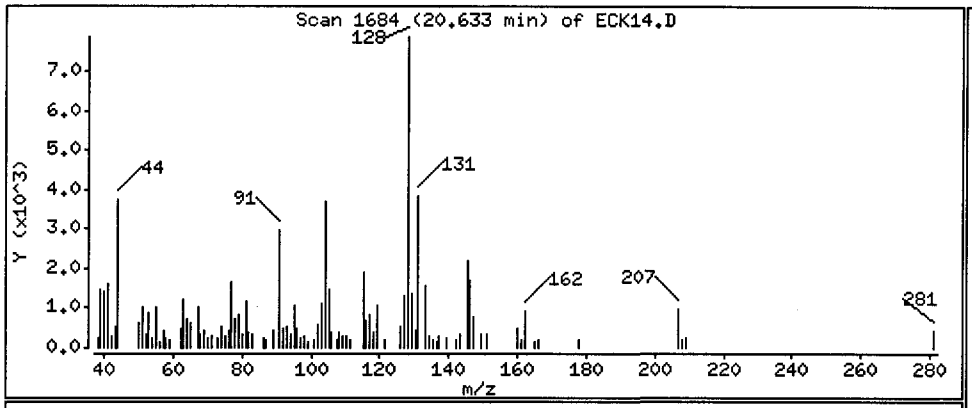
Operator: VOC

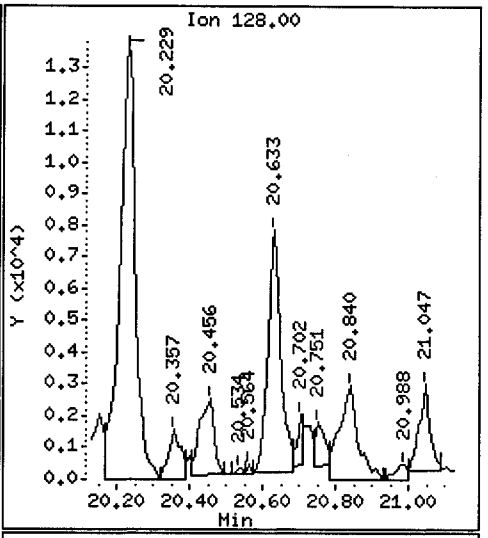
Column phase: RTX 624

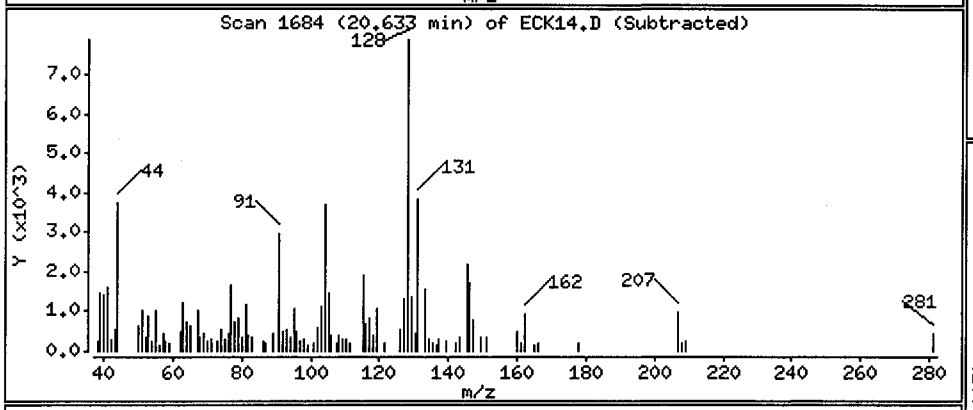
Column diameter: 0.25

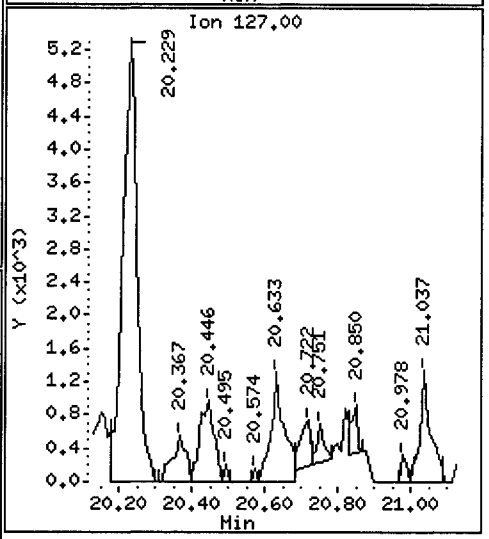
84 Naphthalene

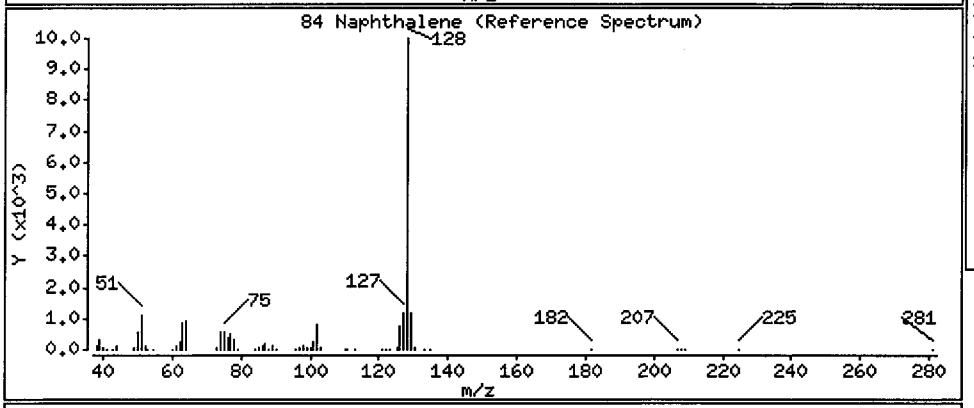
Concentration: 2.6518 UG/L

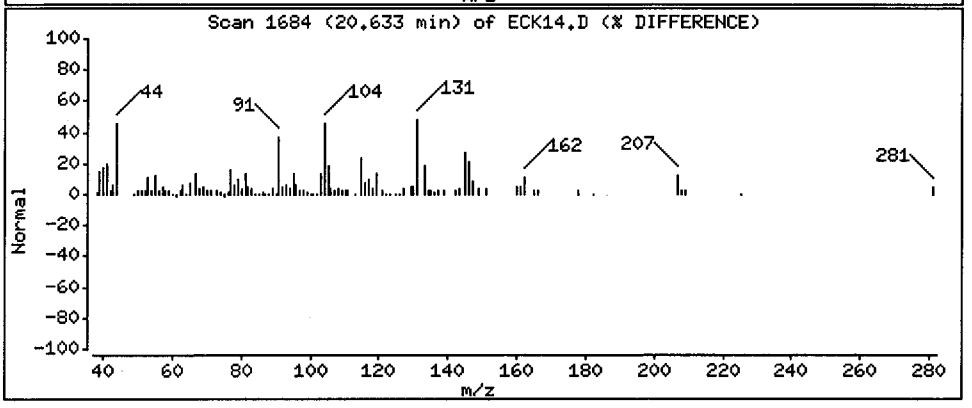












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst	: MSVOA04	Lab ID	: 202043-003 (M)	Client ID	: 1065EX309[6.5]
Seqnum	: 438117134013	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: dcl13	Batch	: 136236	Time	: 21-MAR-2008 14:27
Cal	: 438107113004	Caldate	: 14-MAR-2008	Caltype	: SOIL
IDF	: 83.33			Units	: ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	ND		830		c- u v-
Chloromethane	ND		830		u
Vinyl Chloride	ND		830		u
Bromomethane	ND		830		u
Chloroethane	ND		830		u
Trichlorofluoromethane	ND		420		u
Acetone	250 J		1700		u
Freon 113	ND		420		u
1,1-Dichloroethene	11 J		420		l u x
Methylene Chloride	260 J		1700	590	c+ m u **b***
Carbon Disulfide	ND		420		u
MTBE	ND		420		u
trans-1,2-Dichloroethene	ND		420		u
Vinyl Acetate	ND		4200		u
1,1-Dichloroethane	ND		420		u
2-Butanone	ND		830		u
cis-1,2-Dichloroethene	ND		420		u
2,2-Dichloropropane	ND		420		u
Chloroform	ND		420		u
Bromochloromethane	ND		420		u
1,1,1-Trichloroethane	ND		420		u
1,1-Dichloropropene	430	-0.290	420		u x
Carbon Tetrachloride	590	-0.270	420		u x
1,2-Dichloroethane	8.5 J		420		l u x
Benzene	ND		420		u
Trichloroethene	12 J	0.114	420		u x
1,2-Dichloropropane	22 J	0.055	420		u x
Bromodichloromethane	140 J		420		l u x
Dibromomethane	20 J	0.144	420		u x
4-Methyl-2-Pentanone	310 J		830		l u x
cis-1,3-Dichloropropene	9.1 J	0.341	420		u x
Toluene	ND		420		u
trans-1,3-Dichloropropene	9.0 J	-0.132	420		u x
1,1,2-Trichloroethane	20 J	0.056	420		u x
2-Hexanone	ND		830		u
1,3-Dichloropropane	ND		420		u
Tetrachloroethene	ND		420		u
Dibromochloromethane	9.3 J	0.302	420		u x
1,2-Dibromoethane	ND		420		u
Chlorobenzene	21 J		420		l u x
1,1,1,2-Tetrachloroethane	ND		420		u
Ethylbenzene	17 J	0.145	420		u x
m,p-Xylenes	ND		420		u
o-Xylene	ND		420		u
Styrene	ND		420		u
Bromoform	ND		420		u
Isopropylbenzene	22 J		420		u
1,1,2,2-Tetrachloroethane	150 J	0.055	420		u x
1,2,3-Trichloropropane	11 J		420		l u x

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	56 J		420		u
Bromobenzene	34 J	0.391	420		u x
1,3,5-Trimethylbenzene	29 J		420		u
2-Chlorotoluene	11 J	-0.053	420		u x
4-Chlorotoluene	19 J		420		l u x
tert-Butylbenzene	11 J	0.065	420	60	u x
1,2,4-Trimethylbenzene	75 J		420	48	u
sec-Butylbenzene	56 J		420	55	u
para-Isopropyl Toluene	79 J		420	57	u
1,3-Dichlorobenzene	ND		420		u
1,4-Dichlorobenzene	ND		420		u
n-Butylbenzene	94 J		420	46	u
1,2-Dichlorobenzene	ND		420		u
1,2-Dibromo-3-Chloropropane	ND		420		u
1,2,4-Trichlorobenzene	ND		420		u
Hexachlorobutadiene	ND		420		c- u
Naphthalene	150 J		420	82	u
1,2,3-Trichlorobenzene	ND		420		u

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	4167	4379	105	78-126	u
1,2-Dichloroethane-d4	4167	4156	100	76-137	u
Toluene-d8	4167	4175	100	80-120	u
Bromofluorobenzene	4167	4256	102	80-121	u
Trifluorotoluene	1250	1156	93	52-145	u

ISTD (ICAL dce12)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	402255	471568	17.23	10.00	9.97	-0.03
1,4-Difluorobenzene	600047	688463	14.73	11.12	11.10	-0.02
Chlorobenzene-d5	504409	627795	24.46	15.22	15.21	-0.01
1,4-Dichlorobenzene-d4	272365	366693	34.63	17.95	17.94	-0.01

BO 03/21/08 : High HC

BO 03/21/08 : See file ecl11 for methanol prep blank.

BO 03/21/08 [1,1-Dichloroethene]: This is just noise.

BO 03/21/08 [1,2-Dichloroethane]: Spectrum does not confirm.

BO 03/21/08 [Bromodichloromethane]: Spectrum does not confirm.

BO 03/21/08 [4-Methyl-2-Pentanone]: Spectrum does not confirm.

BO 03/21/08 [Chlorobenzene]: Spectrum does not confirm.

BO 03/21/08 [1,2,3-Trichloropropane]: Spectrum does not confirm.

BO 03/21/08 [4-Chlorotoluene]: Spectrum does not confirm.

(not in upper half)

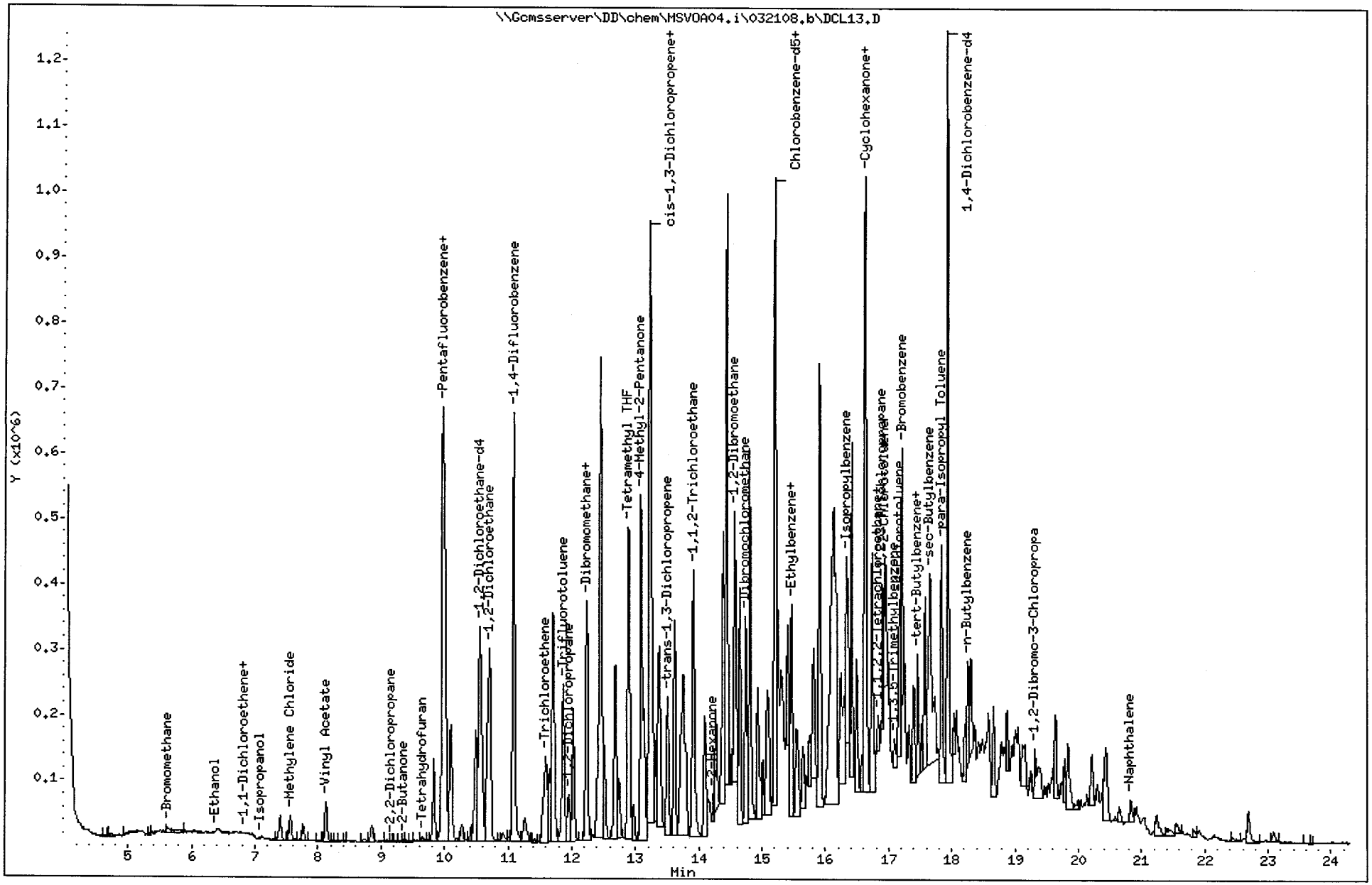
Analyst: BO Date: 03/21/08 Reviewer: MJD Date: 03/21/08

+=high bias -=low bias b=noncompliant c=CCV l=false positive flag altered m=manual integration u=use v=ICV x=false positive

438117134013

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D
Date : 21-MAR-2008 14:27
Client ID: DYNA P&T
Sample Info: S,202043-003,136236,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D
Report Date: 21-Mar-2008 14:54

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-MAR-2008 14:27 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : S,202043-003,136236,
Misc Info : 0.06/5,S8493,1000:0.06/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\826GOX4S.m
Meth Date : 21-Mar-2008 14:22 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 18:54 Cal File: DCE15.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4	Bromomethane	94	5.632	5.561	(0.565)	3225	0.29711	0.2971
7	Ethanol	45	6.382	6.350	(0.640)	4619	38.3948	38.3947
9	1,1-Dichloroethene	96	6.816	6.863	(0.684)	761	0.12929	0.1292
10	Acetone	43	6.964	6.981	(0.698)	10149	2.98409	2.9840
11	Isopropanol	45	7.082	7.070	(0.710)	753	1.01882	1.0188
13	Methylene Chloride	84	7.555	7.602	(0.758)	22772	3.14016	3.1401(M)
18	Vinyl Acetate	43	8.127	8.529	(0.815)	25149	1.65972	1.6597
21	2-Butanone	43	9.360	9.376	(0.939)	4822	1.17904	1.1790
22	2,2-Dichloropropane	77	9.133	9.366	(0.916)	928	0.10064	0.1006
25	Tetrahydrofuran	42	9.735	9.761	(0.976)	432	0.18704	0.1870
* 27	Pentafluorobenzene	168	9.972	10.007	(1.000)	471568	50.0000	
28	Dibromofluoromethane	113	10.001	10.037	(1.003)	282077	52.5523	52.5523
30	Carbon Tetrachloride	117	9.972	10.273	(0.899)	47896	7.13227	7.1322
31	1,1-Dichloropropene	75	9.972	10.293	(0.899)	42029	5.14082	5.1408
32	1,2-Dichloroethane-d4	65	10.554	10.589	(0.951)	303509	49.8682	49.8682
35	1,2-Dichloroethane	62	10.682	10.697	(0.963)	936	0.10153	0.1015
* 36	1,4-Difluorobenzene	114	11.096	11.121	(1.000)	688463	50.0000	
37	Trichloroethene	95	11.599	11.515	(1.045)	843	0.13877	0.1387
38	Trifluorotoluene	146	11.865	11.900	(1.069)	131525	13.8757	13.8757
39	1,2-Dichloropropane	63	11.954	11.929	(1.077)	1659	0.26185	0.2618
40	Dibromomethane	93	12.240	12.127	(1.103)	1094	0.23653	0.2365
41	Bromodichloromethane	83	12.240	12.284	(1.103)	14762	1.64188	1.6418

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D
Report Date: 21-Mar-2008 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	43 Tetramethyl THF	43	12.891	12.876	(1.162)	72062	4.76884	4.7688
	44 cis-1,3-Dichloropropene	75	13.236	12.925	(1.193)	1016	0.10865	0.1086
	45 4-Methyl-2-Pentanone	43	13.088	13.073	(1.180)	31121	3.68407	3.6840
	46 Toluene-d8	98	13.236	13.260	(1.193)	717229	50.1034	50.1034
	48 trans-1,3-Dichloropropene	75	13.532	13.694	(1.220)	969	0.10740	0.1073
	49 1,1,2-Trichloroethane	85	13.985	13.960	(1.260)	718	0.24471	0.2447
	51 2-Hexanone	43	14.212	14.207	(0.935)	3110	0.47705	0.4770
	53 Dibromochloromethane	129	14.765	14.483	(0.971)	791	0.11100	0.1110
	54 1,2-Dibromoethane	107	14.548	14.690	(1.311)	571	0.10009	0.1000
*	55 Chlorobenzene-d5	117	15.208	15.222	(1.000)	627795	50.0000	
	56 Chlorobenzene	112	15.258	15.261	(1.003)	3633	0.25714	0.2571
	57 Ethylbenzene	91	15.445	15.321	(1.016)	5164	0.20794	0.2079
	59 m,p-Xylenes	106	15.455	15.468	(1.016)	1667	0.18122	0.1812
	63 Isopropylbenzene	105	16.362	16.375	(0.912)	6721	0.26391	0.2639
	64 Cyclohexanone	55	16.648	16.612	(0.928)	45581	29.5231	29.5230
	65 Bromofluorobenzene	95	16.628	16.642	(0.927)	352053	51.0736	51.0736
	66 1,1,2,2-Tetrachloroethane	83	16.826	16.789	(0.938)	15425	1.82250	1.8225
	67 Bromobenzene	156	17.210	16.839	(0.959)	3068	0.41371	0.4137
	68 Propylbenzene	91	16.836	16.849	(0.938)	21002	0.67056	0.6705
	69 1,2,3-Trichloropropane	75	16.875	16.878	(0.941)	981	0.13475	0.1347
	70 2-Chlorotoluene	91	16.954	17.026	(0.945)	2834	0.13429	0.1342
	71 1,3,5-Trimethylbenzene	105	17.023	17.036	(0.949)	7045	0.34294	0.3429
	72 4-Chlorotoluene	91	17.171	17.144	(0.957)	4609	0.23124	0.2312
	73 tert-Butylbenzene	119	17.457	17.411	(0.973)	2380	0.13041	0.1304
	74 1,2,4-Trimethylbenzene	105	17.467	17.470	(0.974)	18939	0.90250	0.9024
	75 sec-Butylbenzene	105	17.644	17.657	(0.984)	18499	0.66907	0.6690
	76 para-Isopropyl Toluene	119	17.782	17.795	(0.991)	21981	0.95085	0.9508
*	78 1,4-Dichlorobenzene-d4	152	17.940	17.953	(1.000)	366693	50.0000	
	80 n-Butylbenzene	91	18.256	18.268	(1.018)	26993	1.13045	1.1304
	82 1,2-Dibromo-3-Chloropropane	75	19.370	19.382	(1.080)	604	0.30041	0.3004
	85 Naphthalene	128	20.830	20.841	(1.161)	38239	1.76668	1.7666

QC Flag Legend

M - Compound response manually integrated.

[1,1-Dichloroethene; 11 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

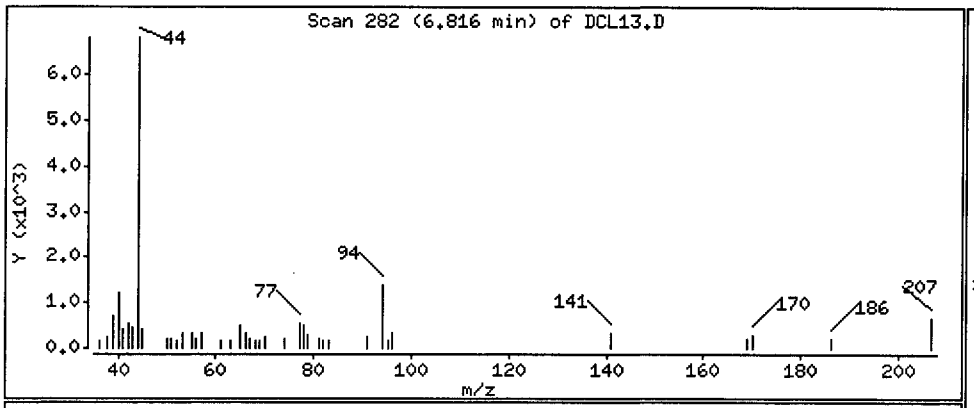
Operator: VOC

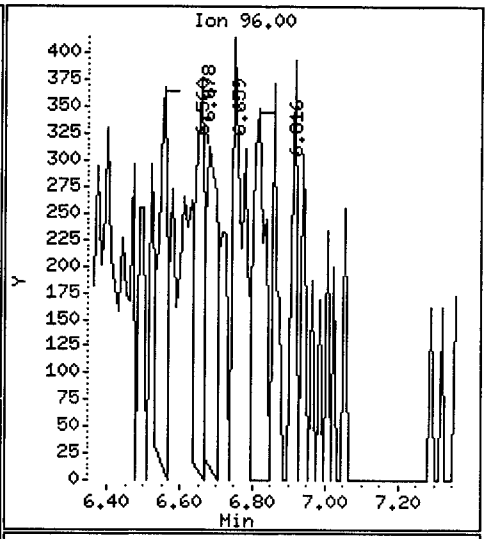
Column phase: RTx Volatiles

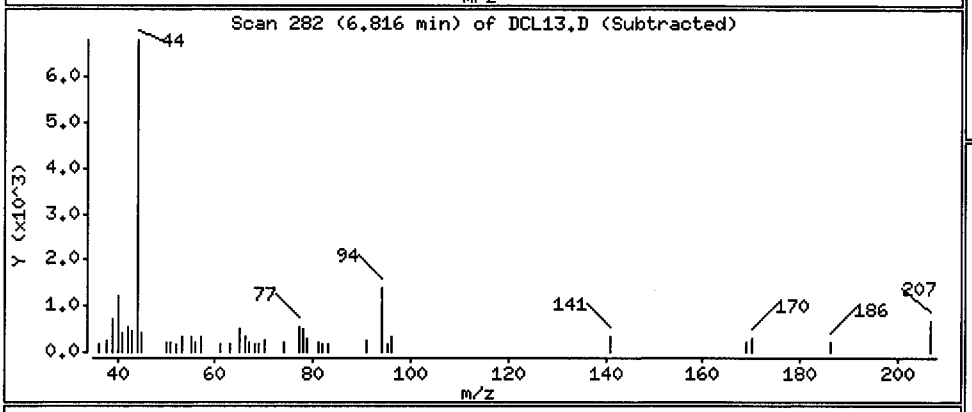
Column diameter: 0.32

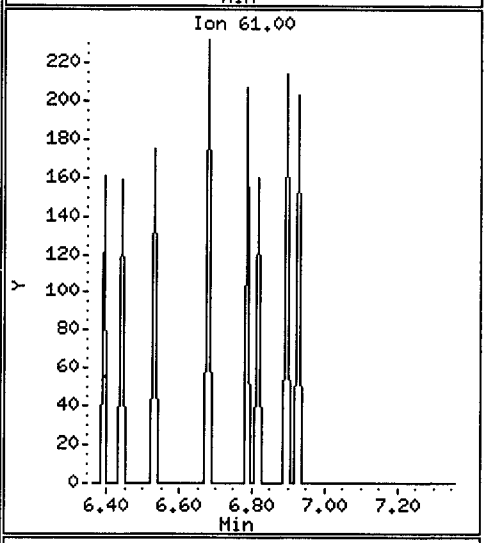
9 1,1-Dichloroethene

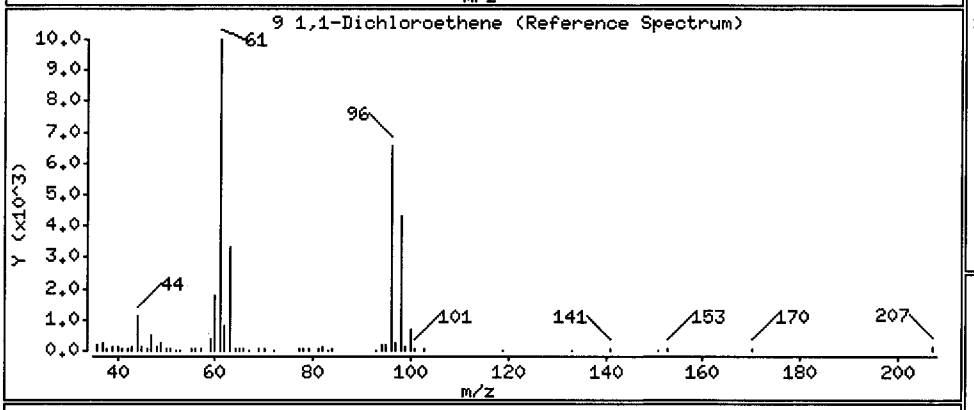
Concentration: 0.1292 UG/L

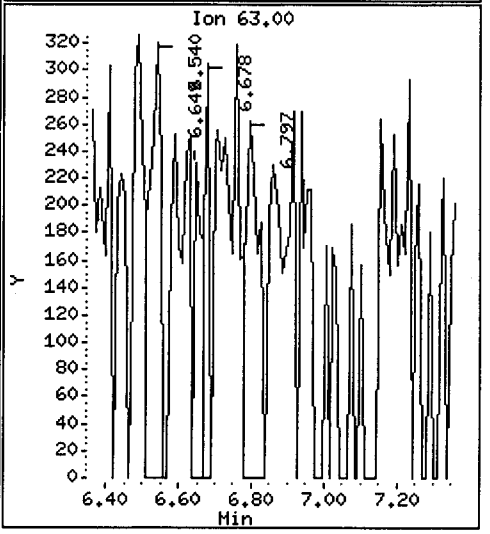


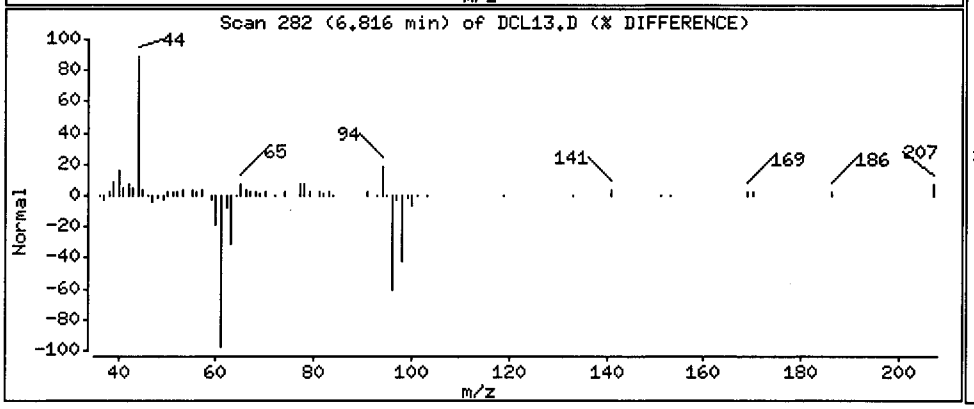












[Acetone; 250 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

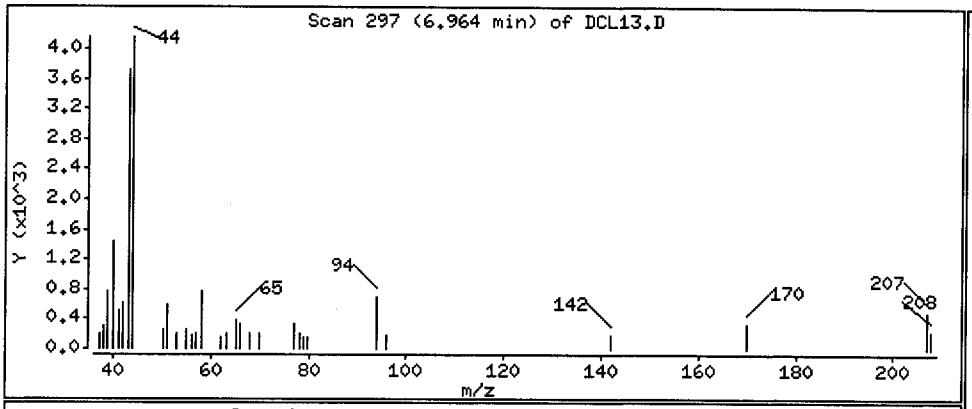
Operator: VOC

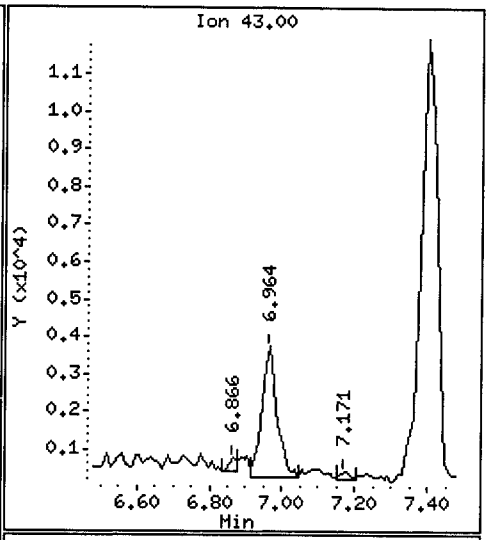
Column phase: RTx Volatiles

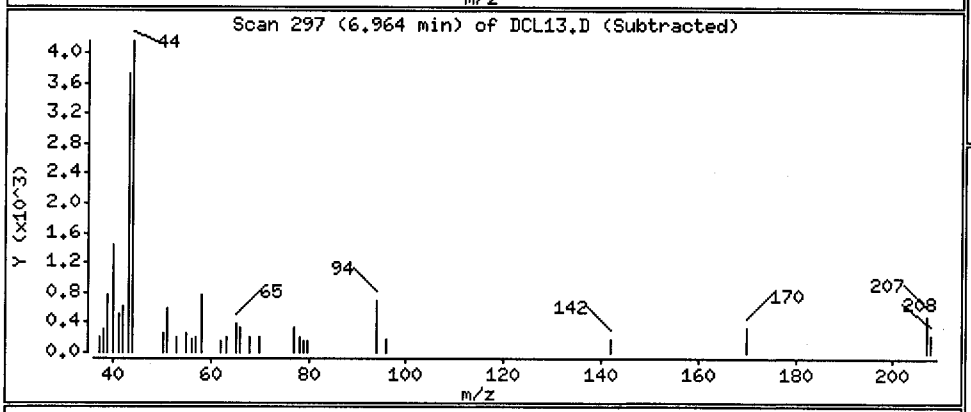
Column diameter: 0.32

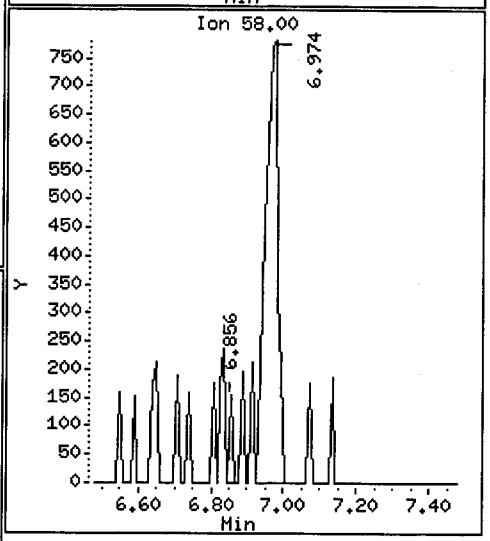
10 Acetone

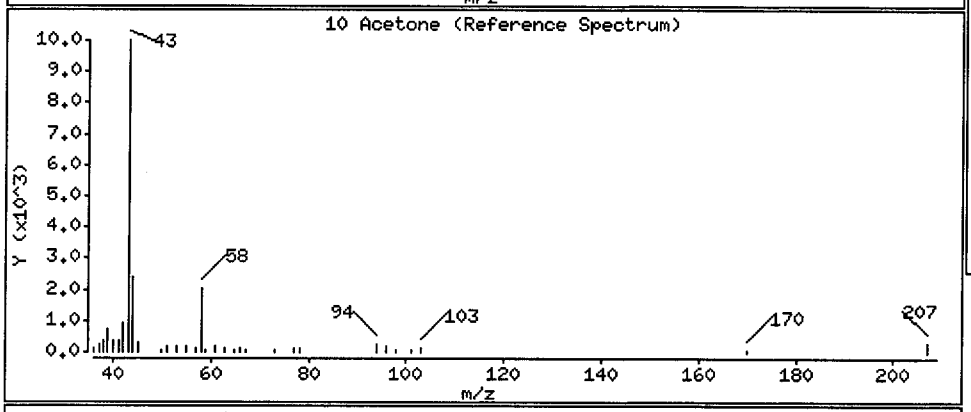
Concentration: 2.9840 UG/L

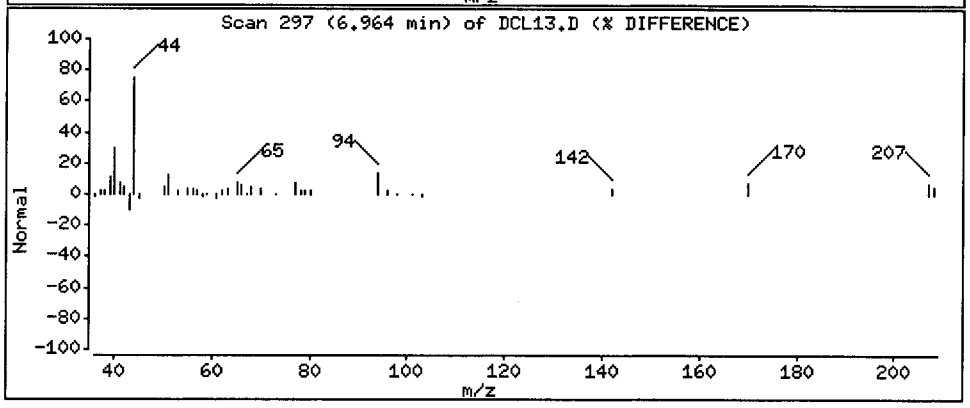












[Methylene Chloride; 260 J; MI; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

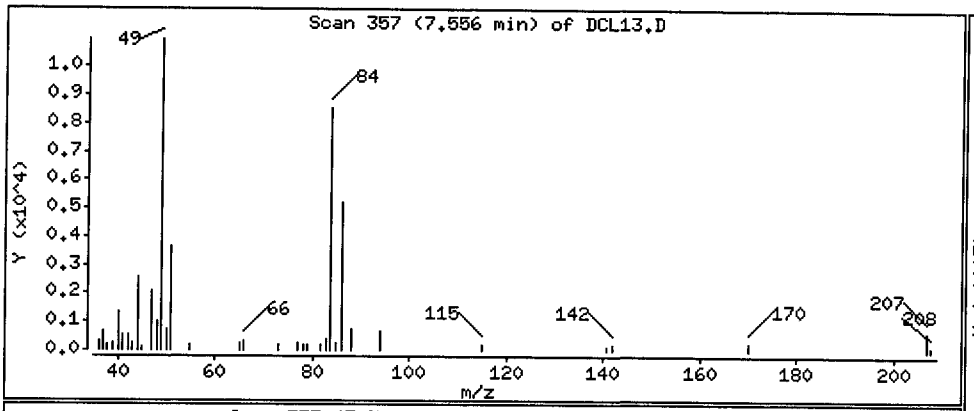
Operator: VOC

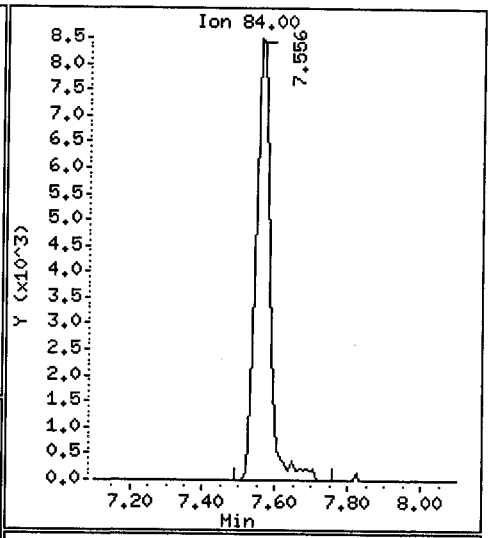
Column phase: RTx Volatiles

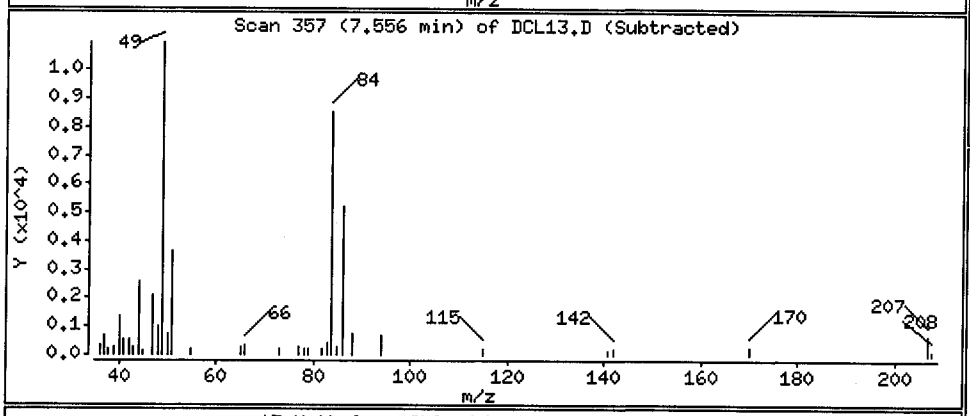
Column diameter: 0.32

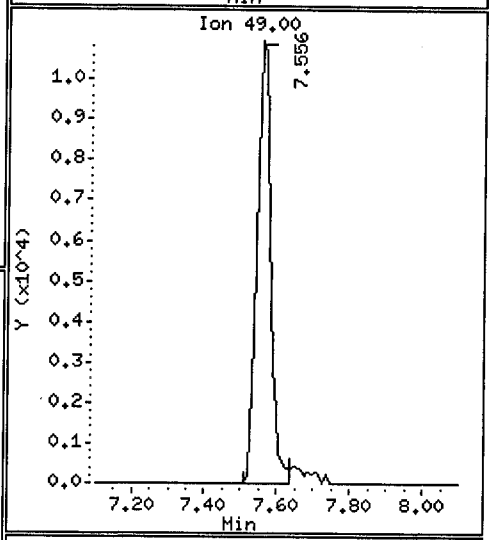
13 Methylene Chloride

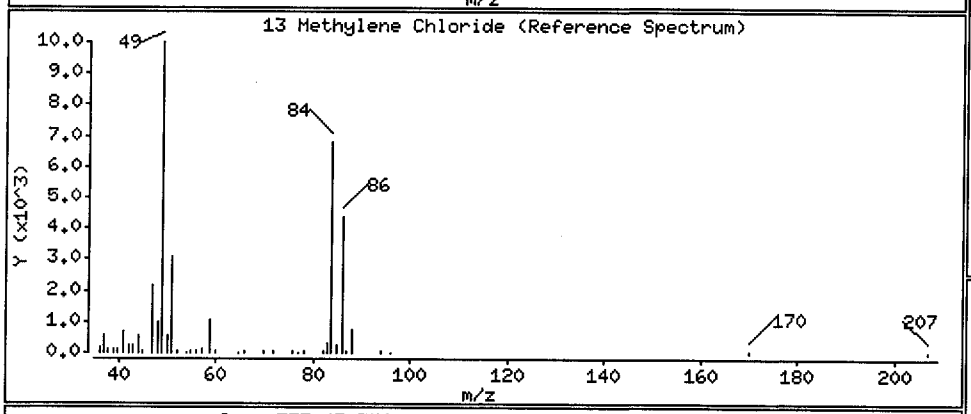
Concentration: 3.1401 UG/L

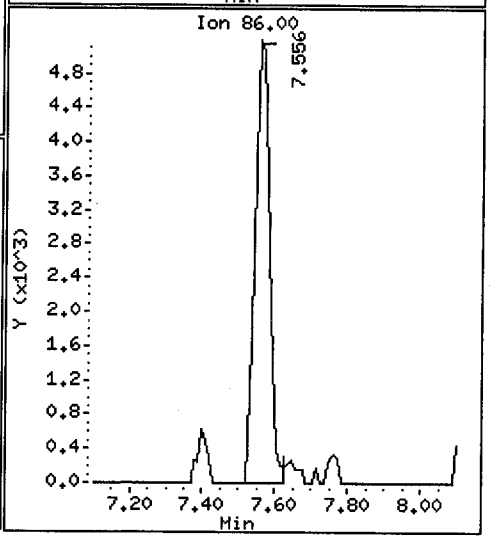


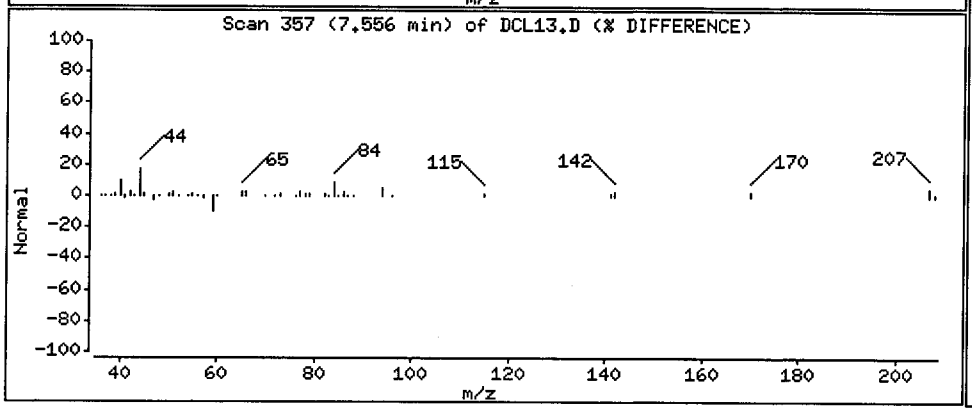












[Methylene Chloride; before version]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

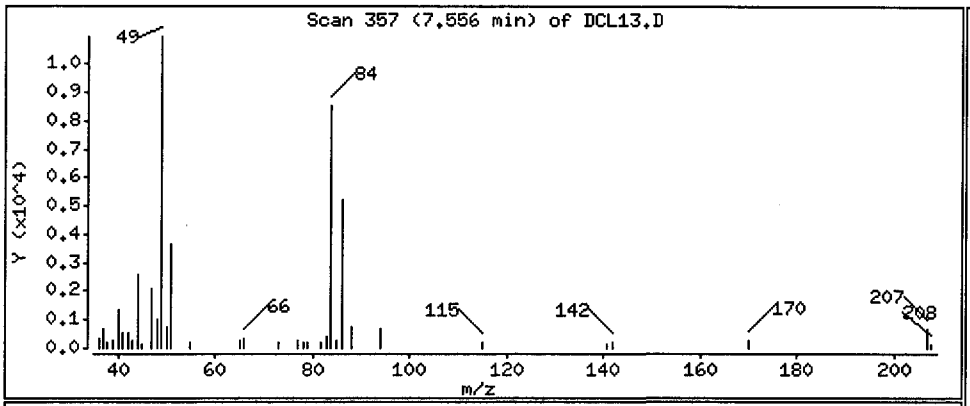
Operator: VOC

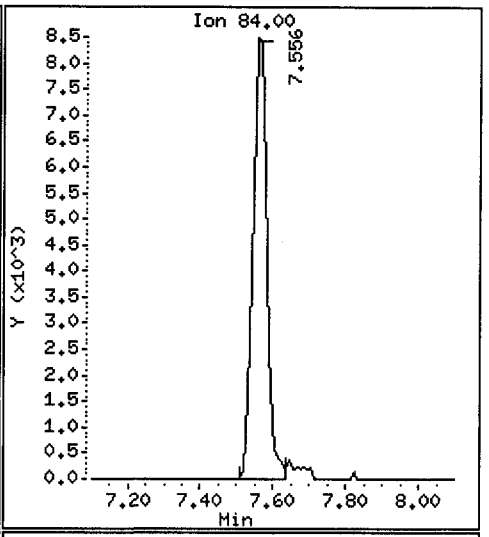
Column phase: RTx Volatiles

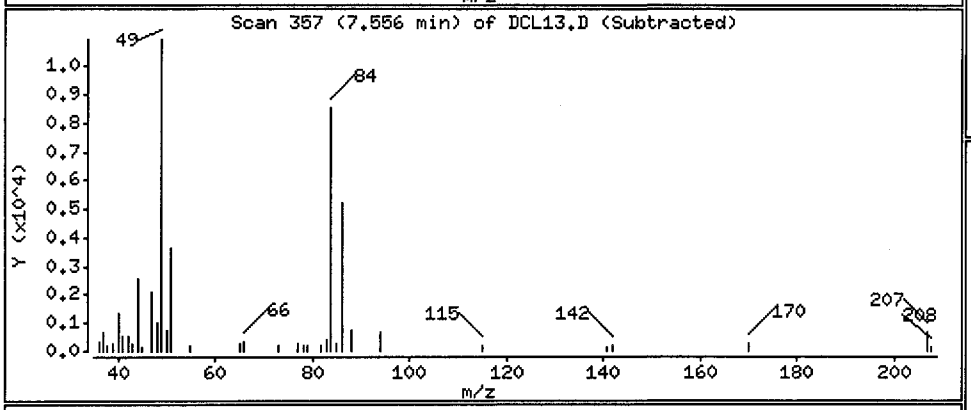
Column diameter: 0.32

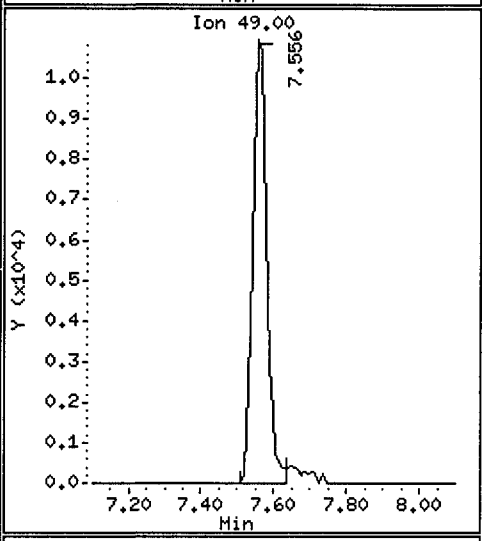
13 Methylene Chloride

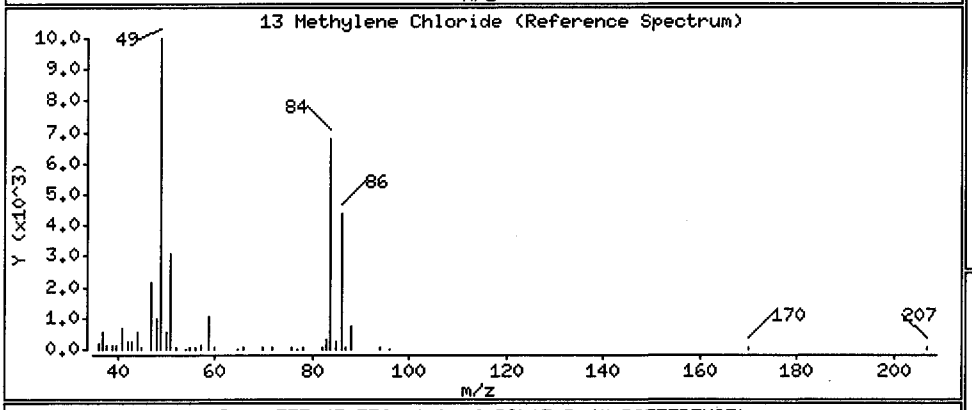
Concentration: 3.0145 UG/L

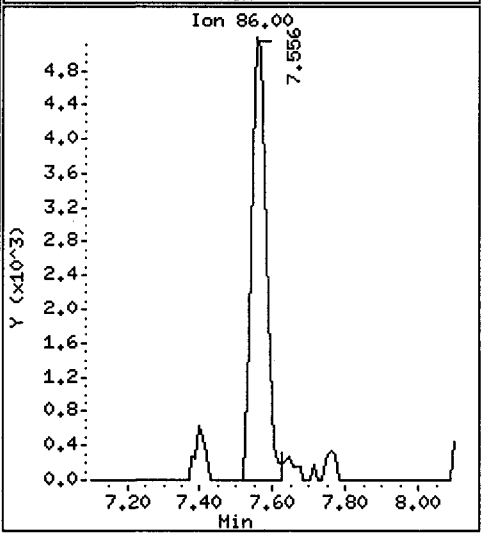


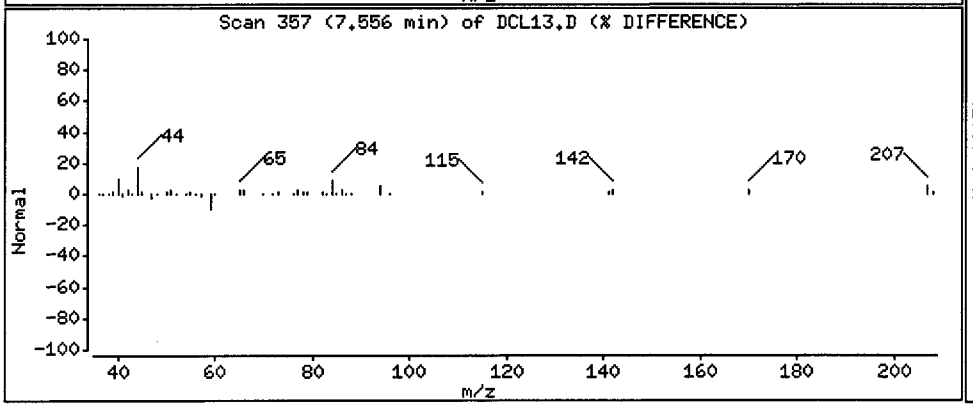












[Carbon Tetrachloride; 590; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

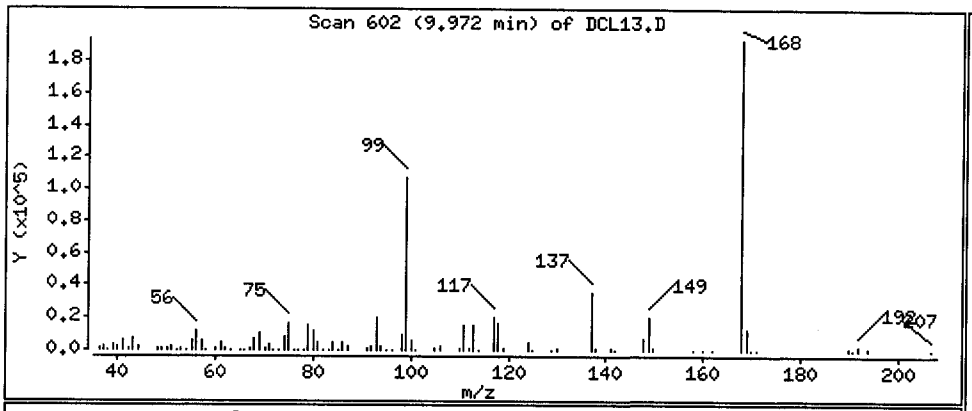
Operator: VOC

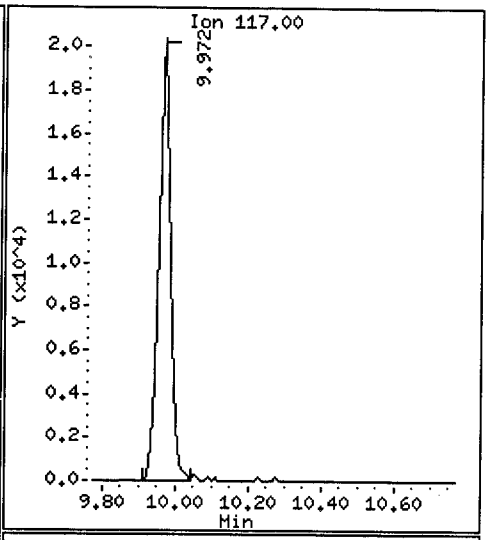
Column phase: RTx Volatiles

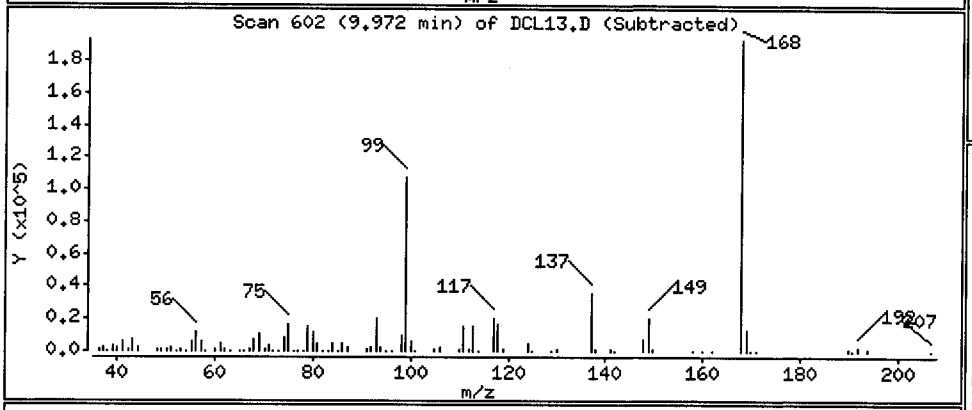
Column diameter: 0.32

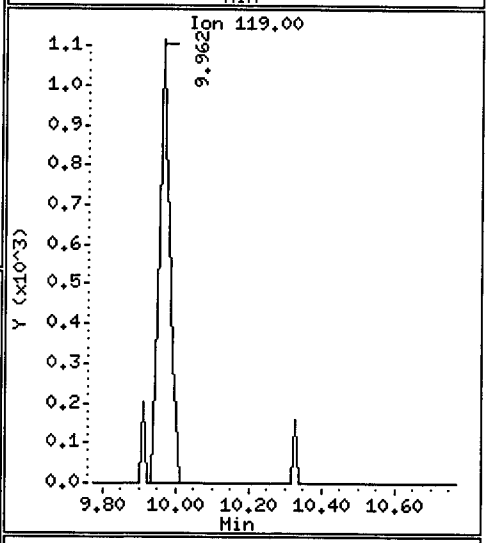
30 Carbon Tetrachloride

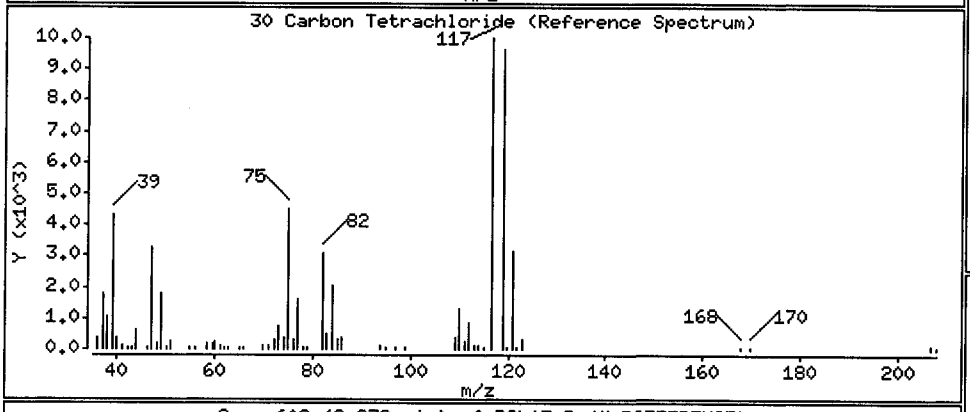
Concentration: 7.1322 UG/L

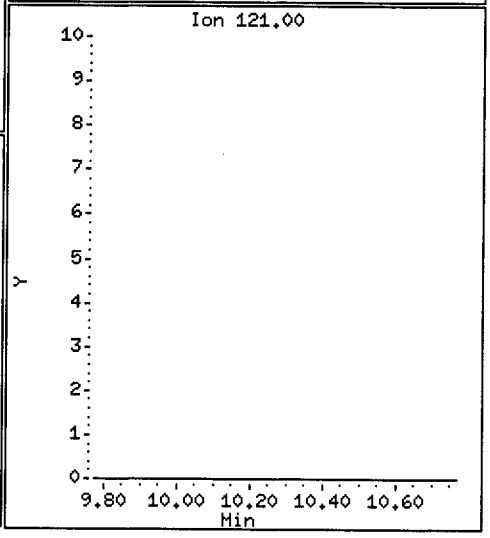


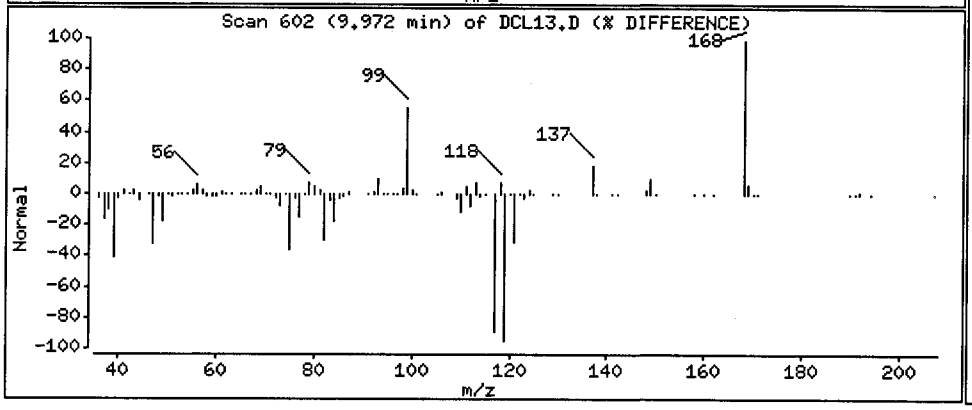












[1,1-Dichloropropene; 430; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

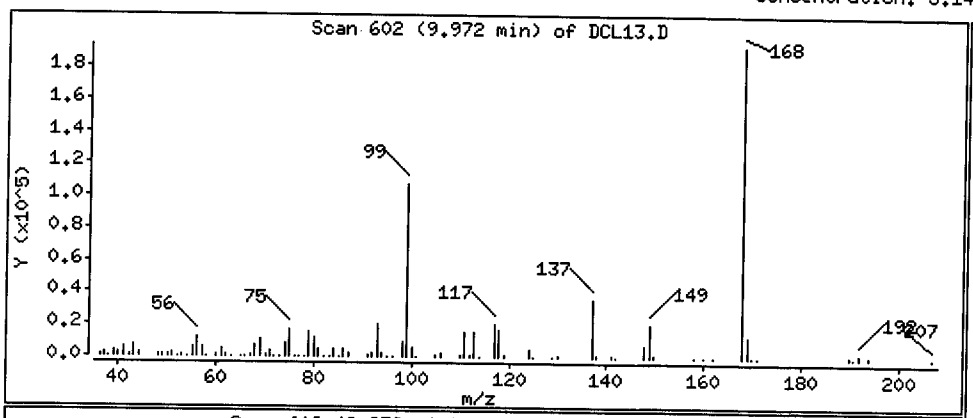
Operator: VOC

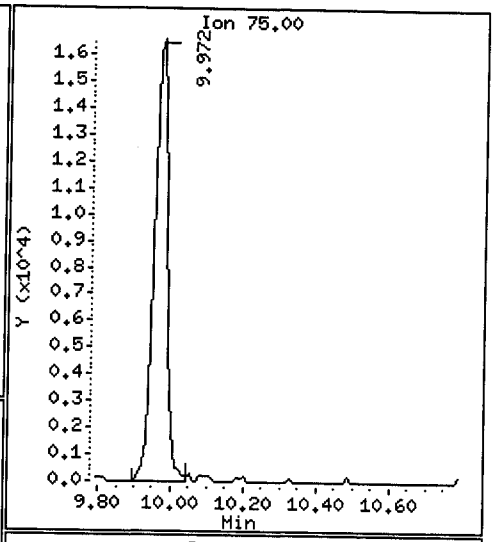
Column phase: RTx Volatiles

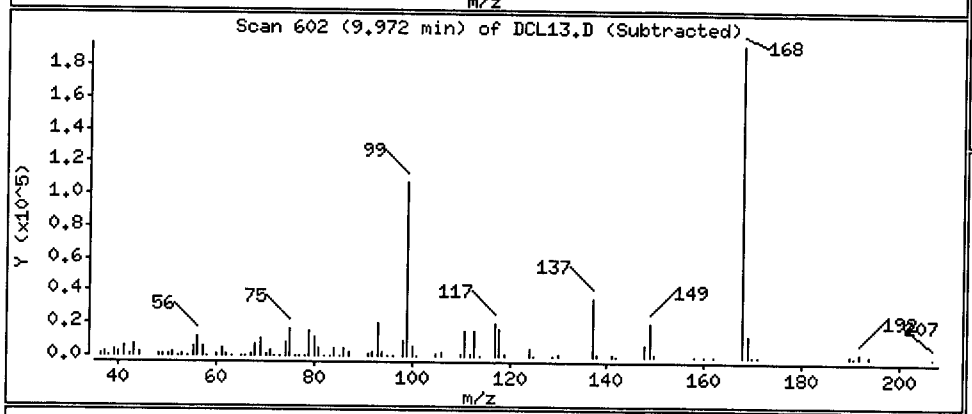
Column diameter: 0.32

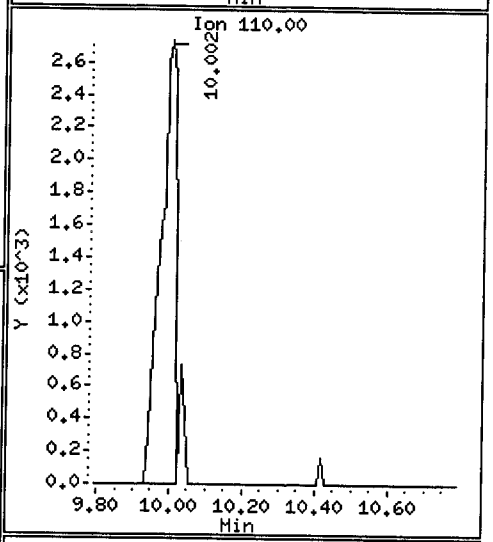
31 1,1-Dichloropropene

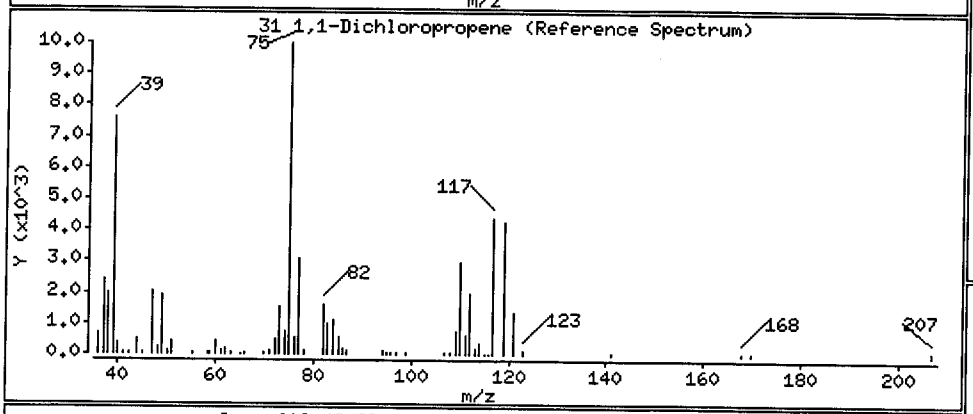
Concentration: 5.1408 UG/L

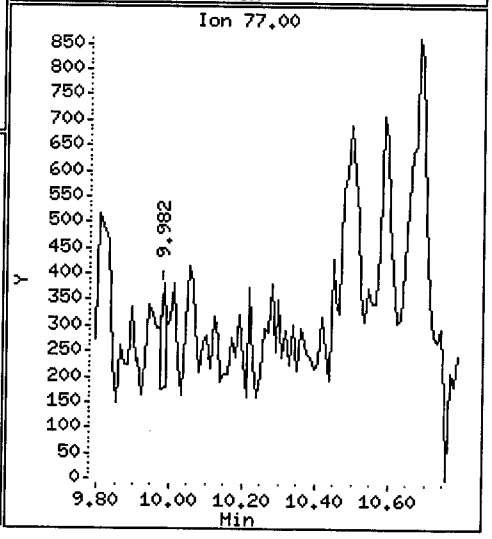


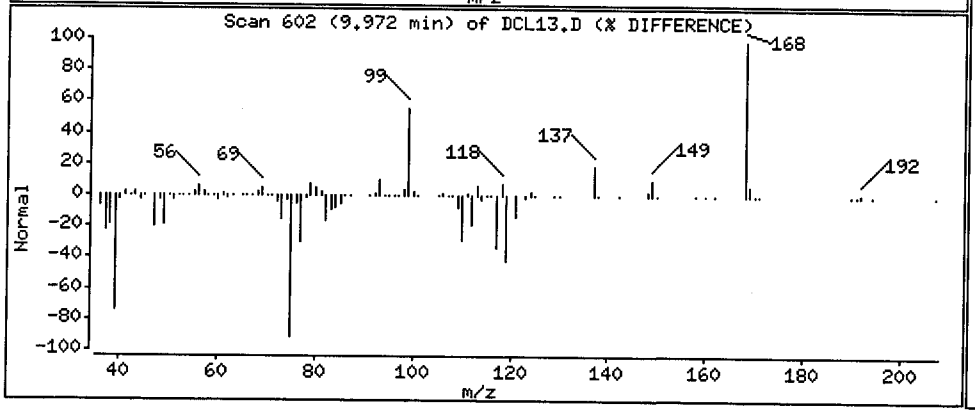












[1,2-Dichloroethane; 8.5 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

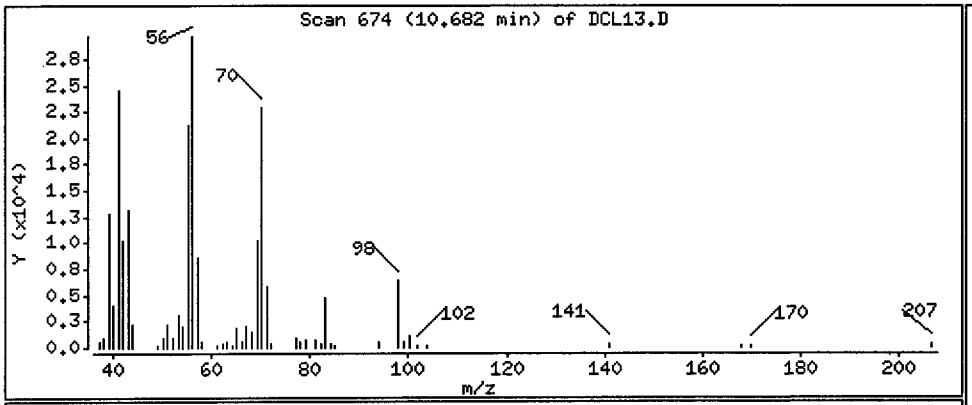
Operator: VOC

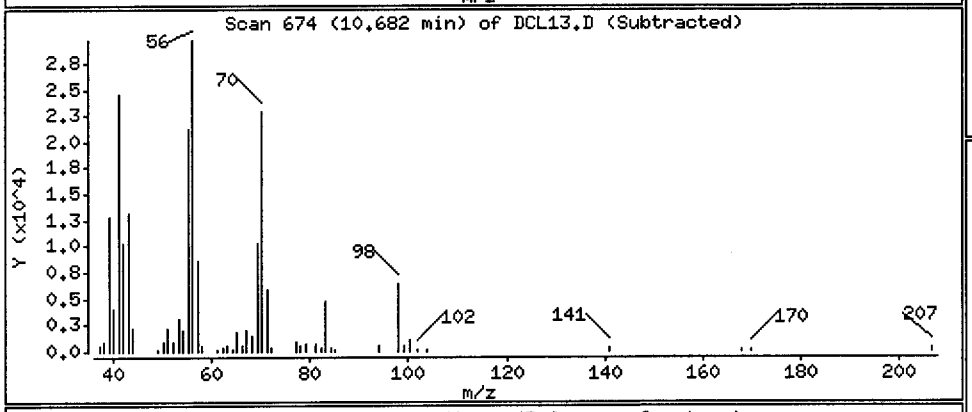
Column phase: RTx Volatiles

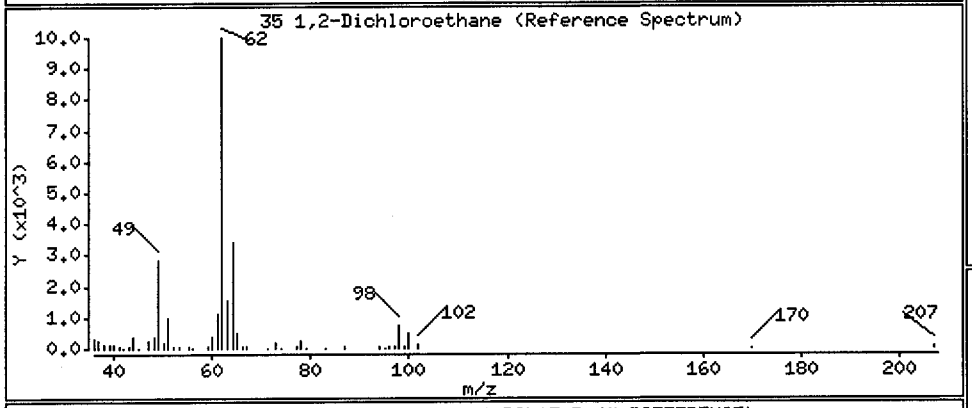
Column diameter: 0.32

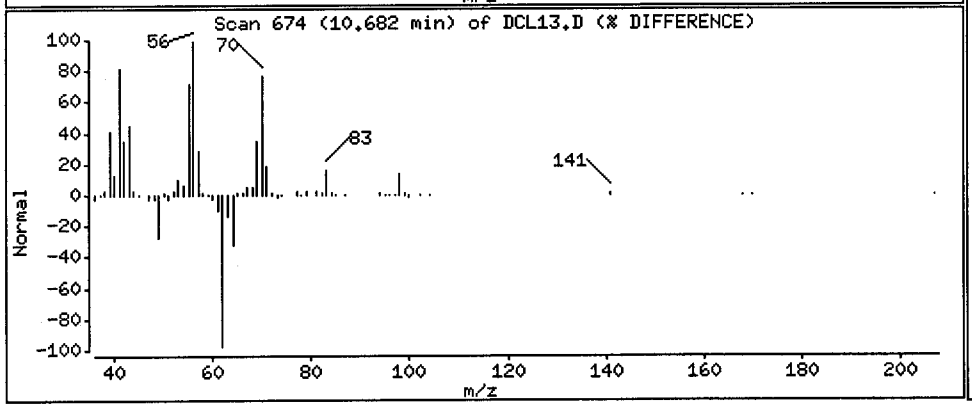
35 1,2-Dichloroethane

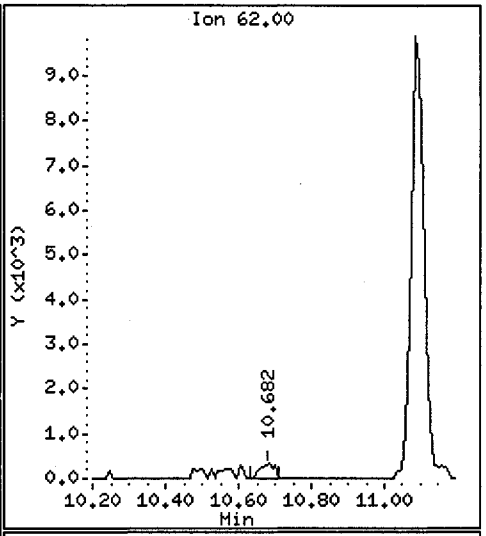
Concentration: 0.1015 UG/L

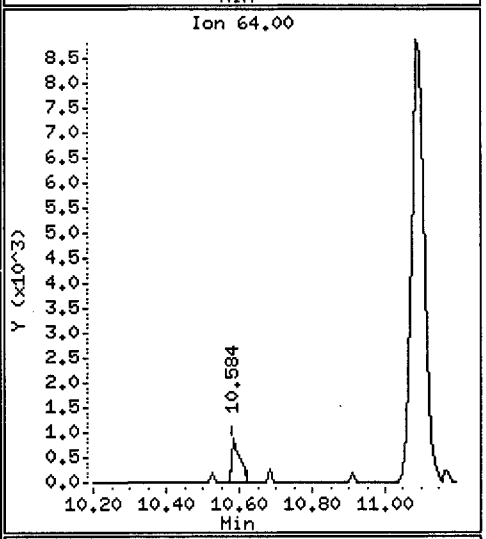


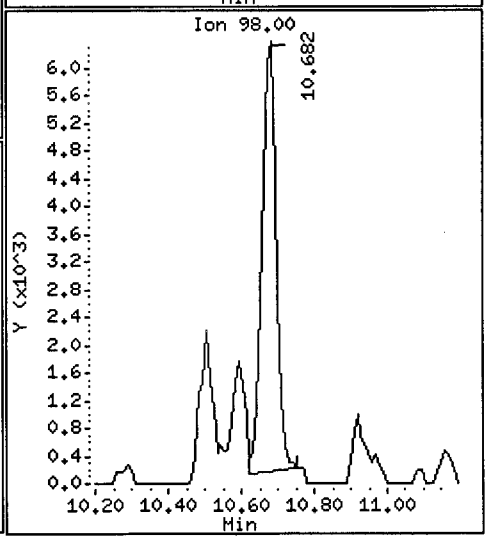












[Trichloroethene; 12 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

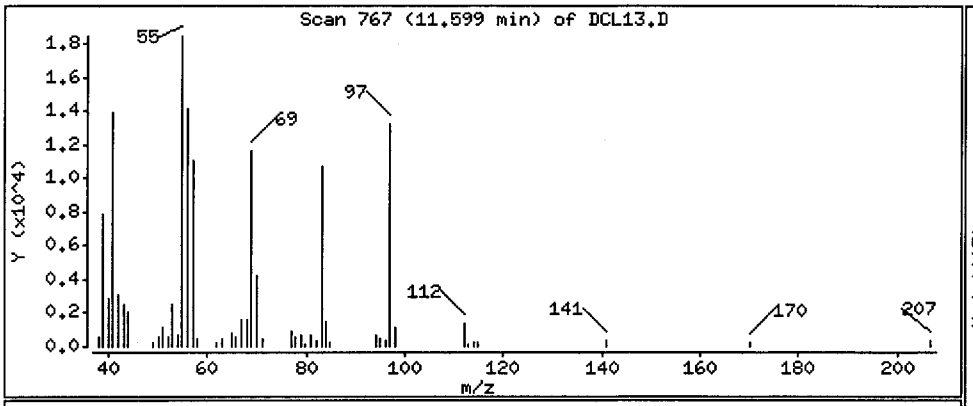
Operator: VOC

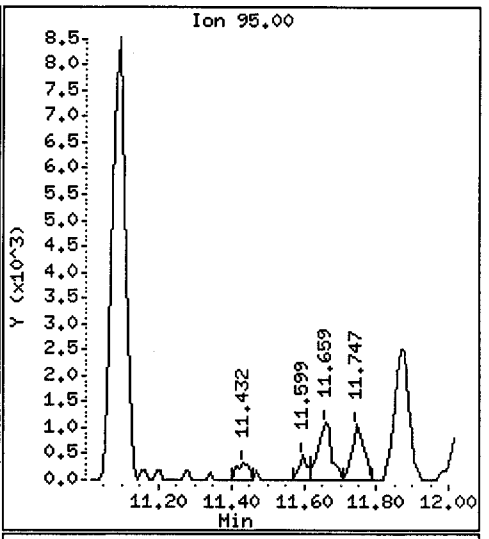
Column phase: RTx Volatiles

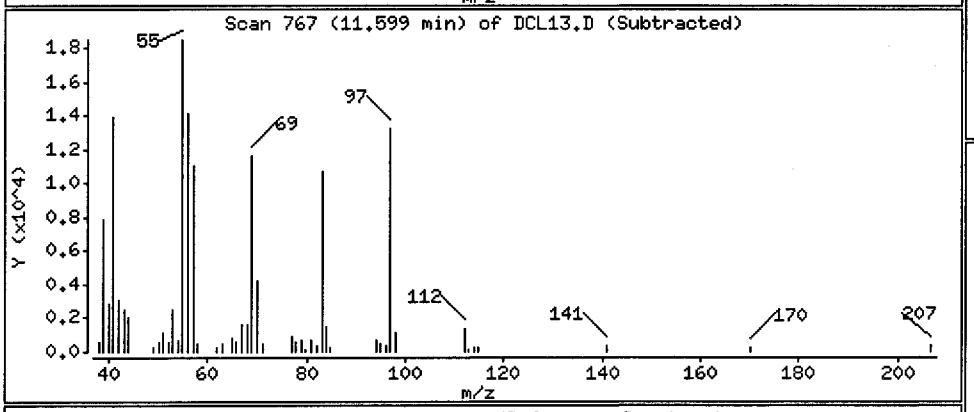
Column diameter: 0.32

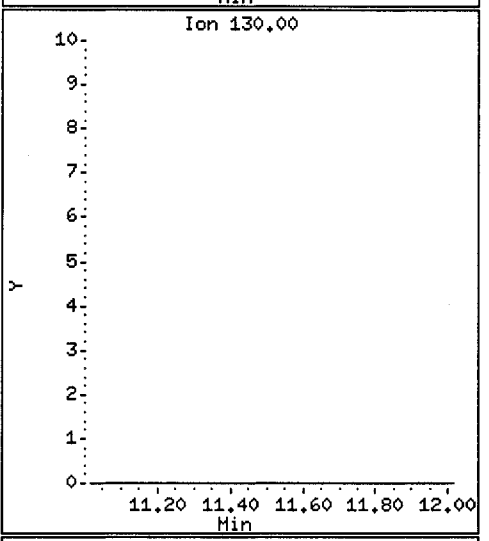
37 Trichloroethene

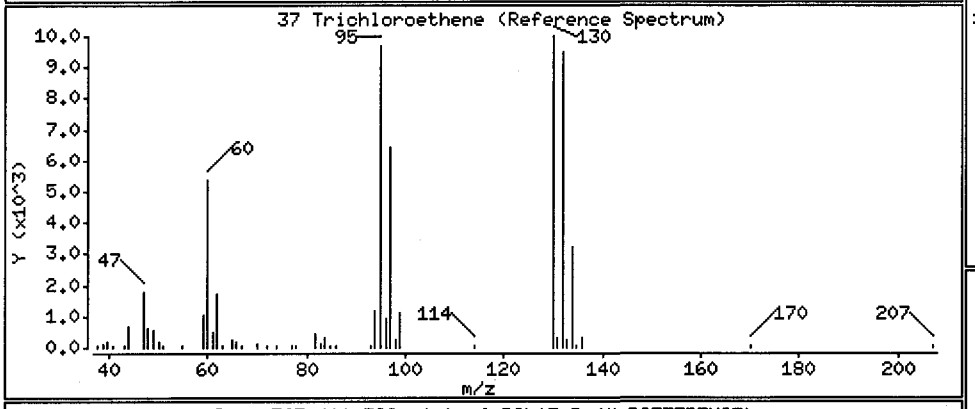
Concentration: 0.1387 UG/L

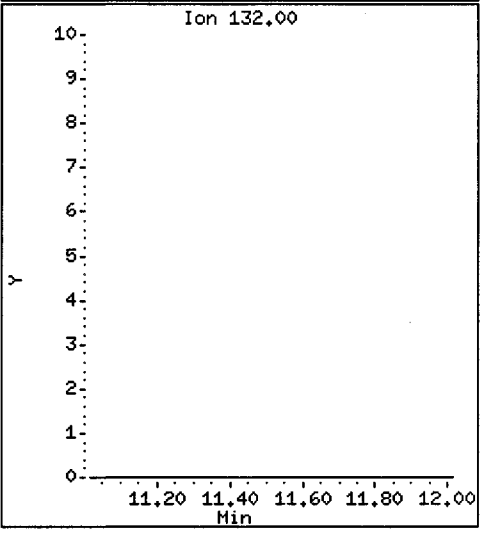


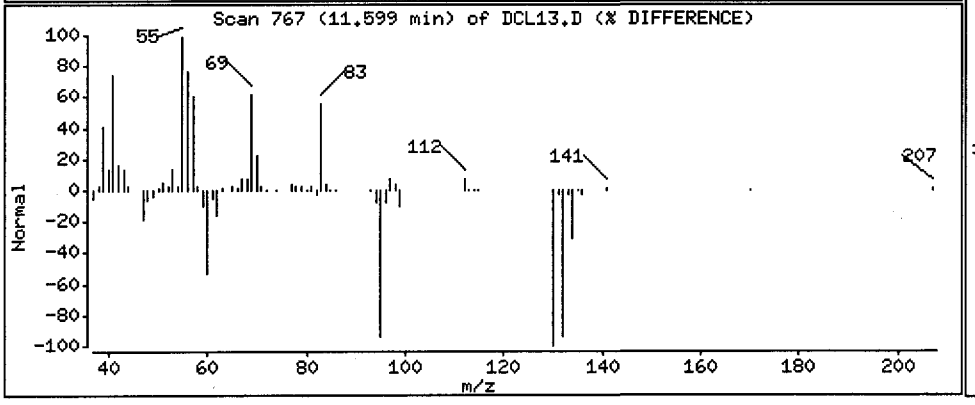












[1,2-Dichloropropane; 22 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

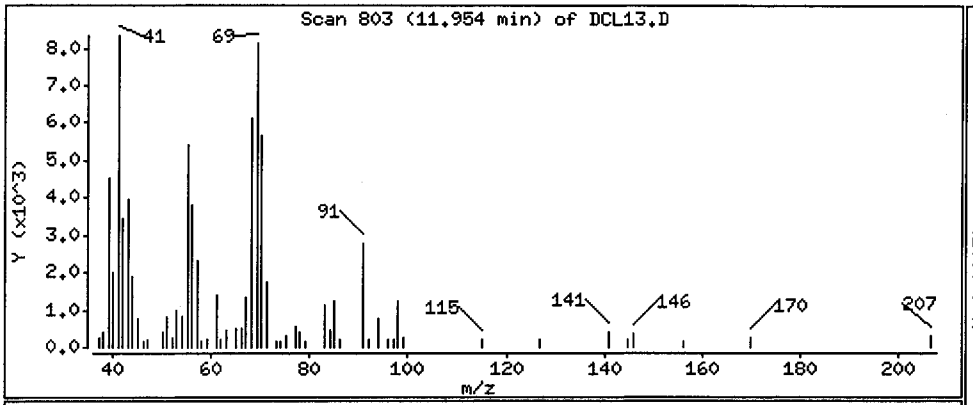
Operator: VOC

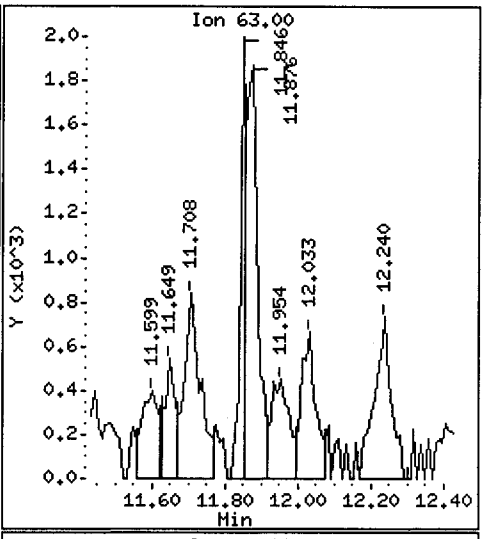
Column phase: RTx Volatiles

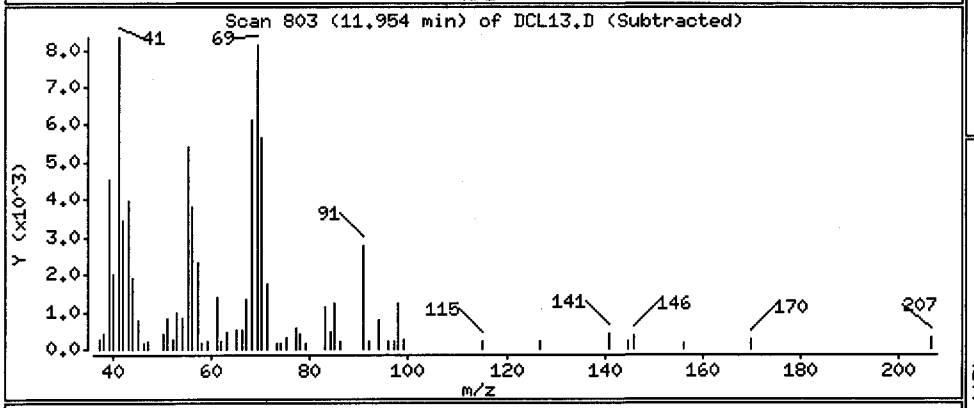
Column diameter: 0.32

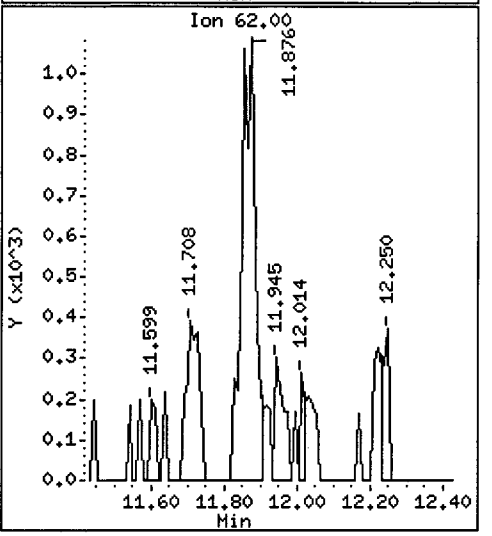
39 1,2-Dichloropropane

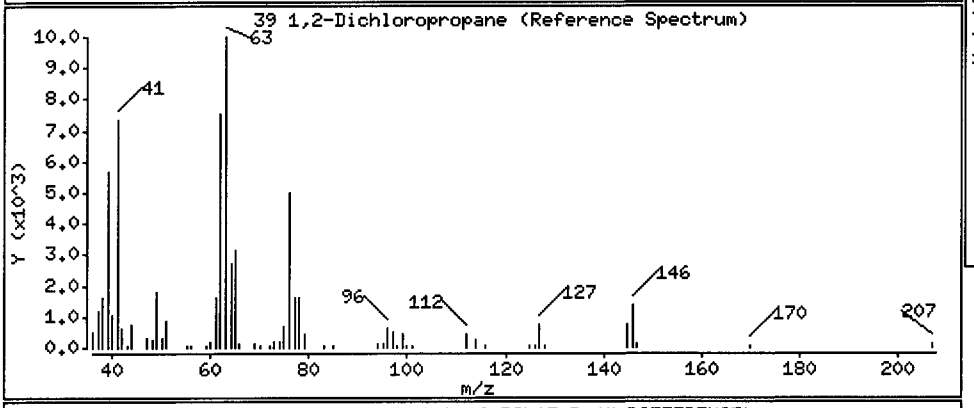
Concentration: 0.2618 UG/L

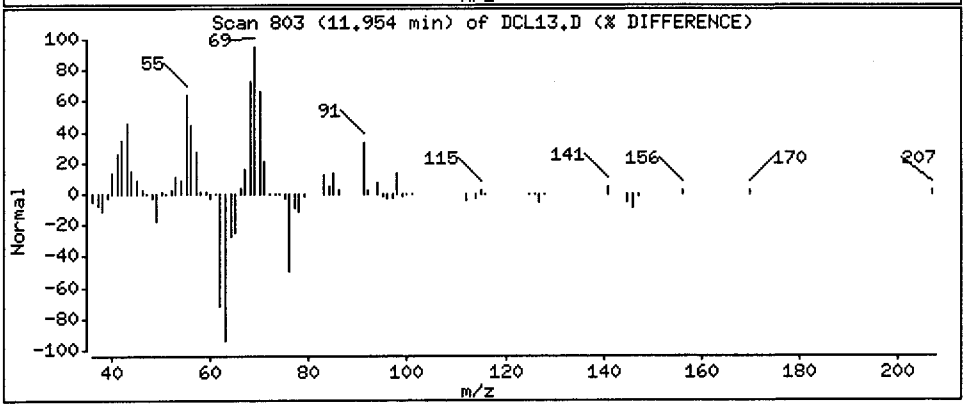












[Dibromomethane; 20 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

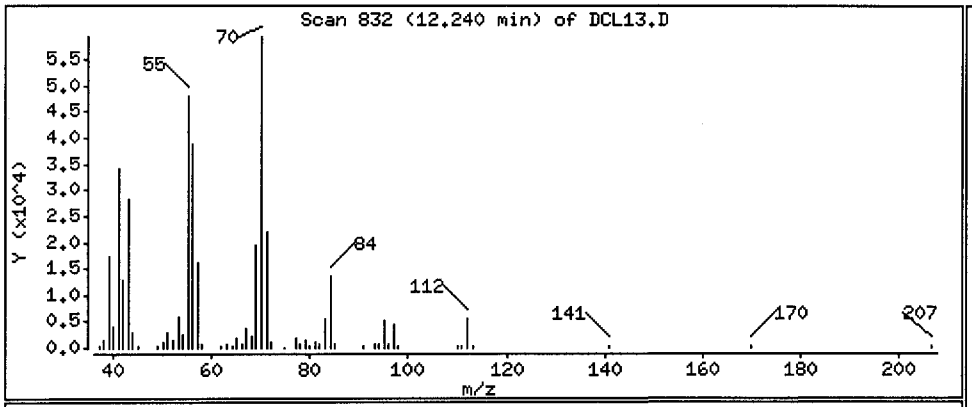
Operator: VOC

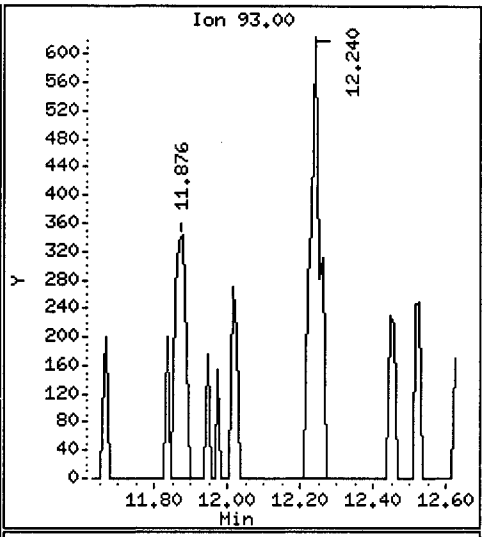
Column phase: RTx Volatiles

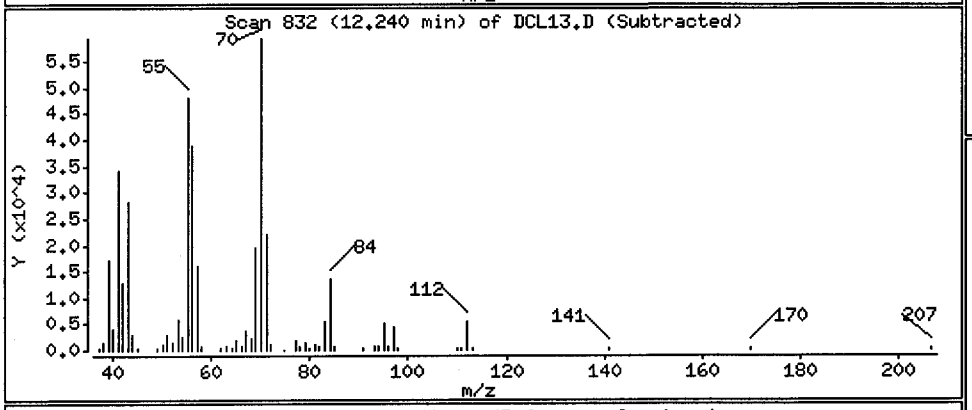
Column diameter: 0.32

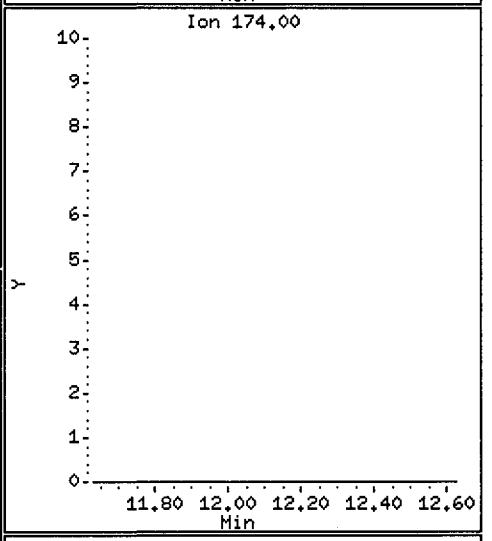
40 Dibromomethane

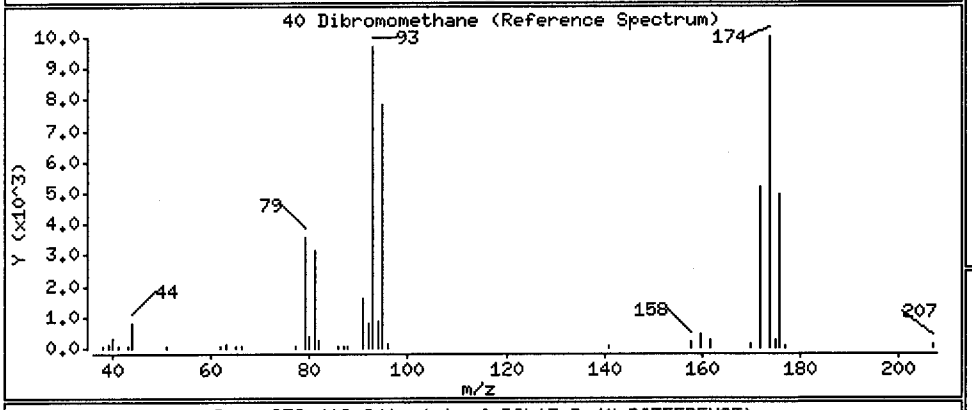
Concentration: 0.2365 UG/L

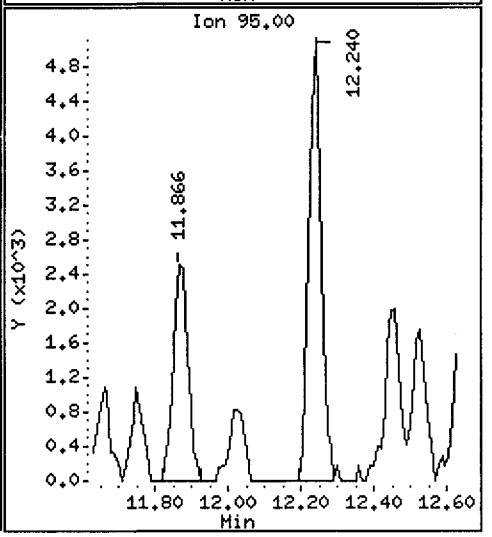


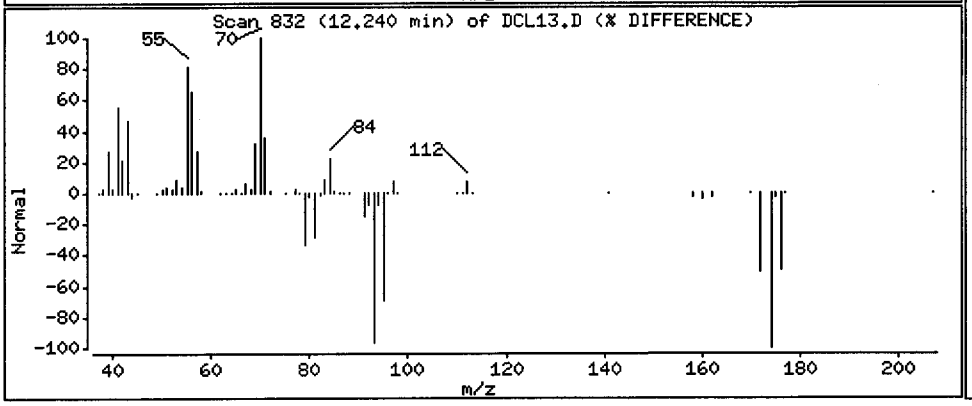












[Bromodichloromethane; 140 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

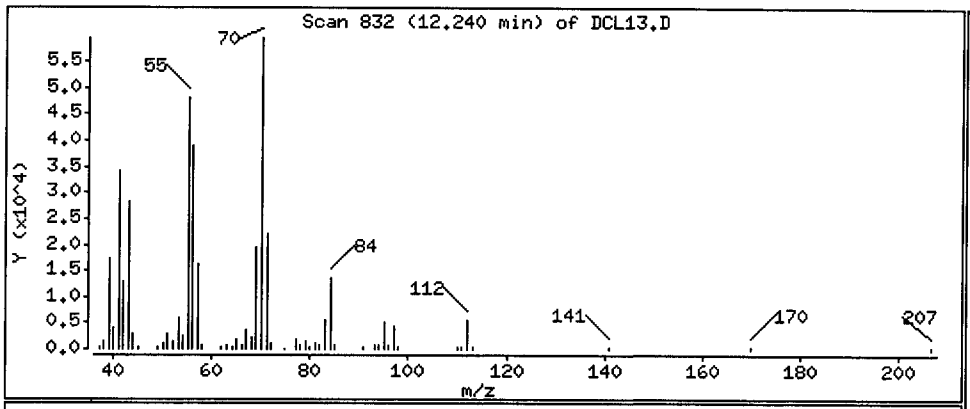
Operator: VOC

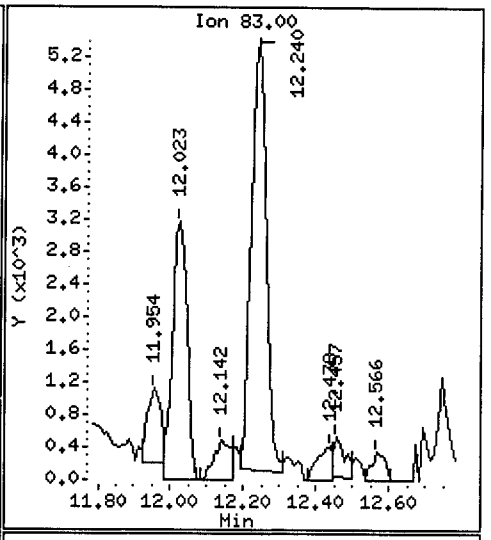
Column phase: RTx Volatiles

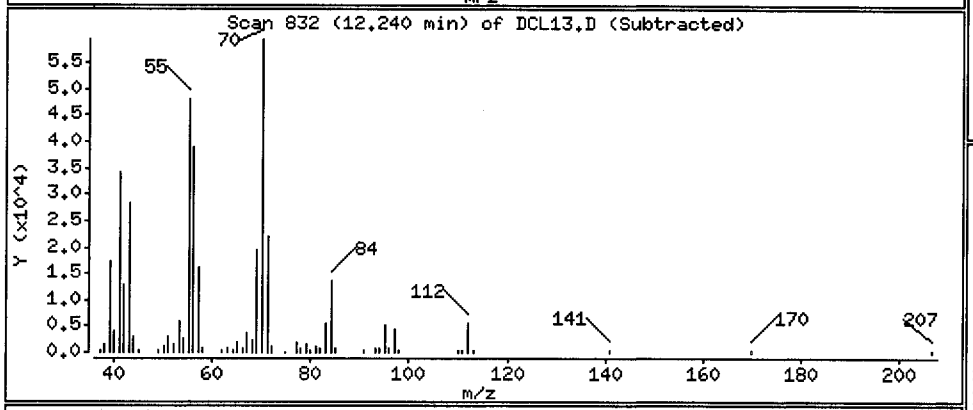
Column diameter: 0.32

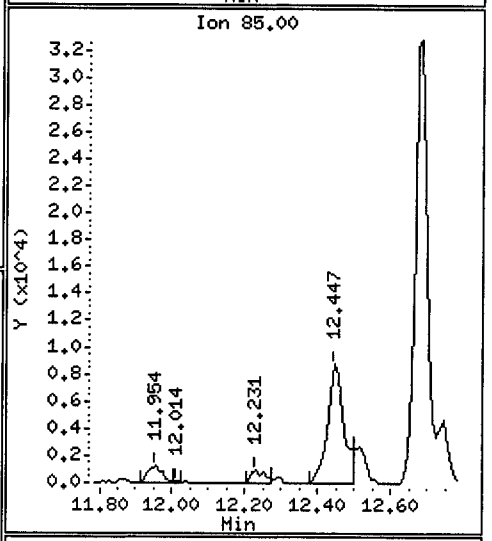
41 Bromodichloromethane

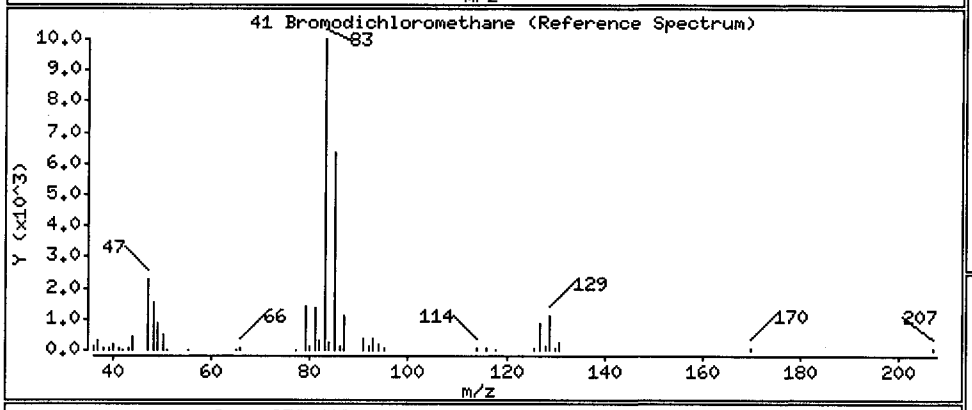
Concentration: 1.6418 UG/L

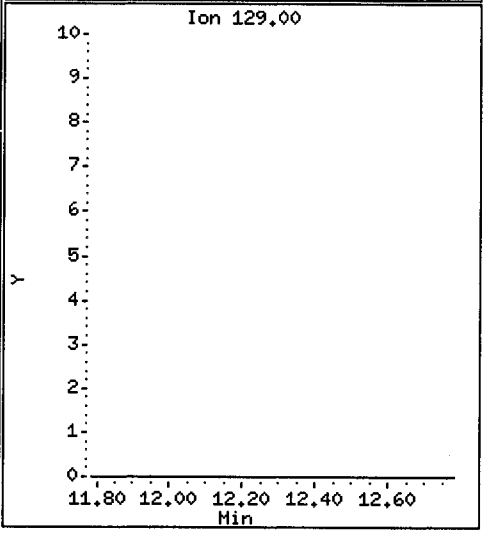


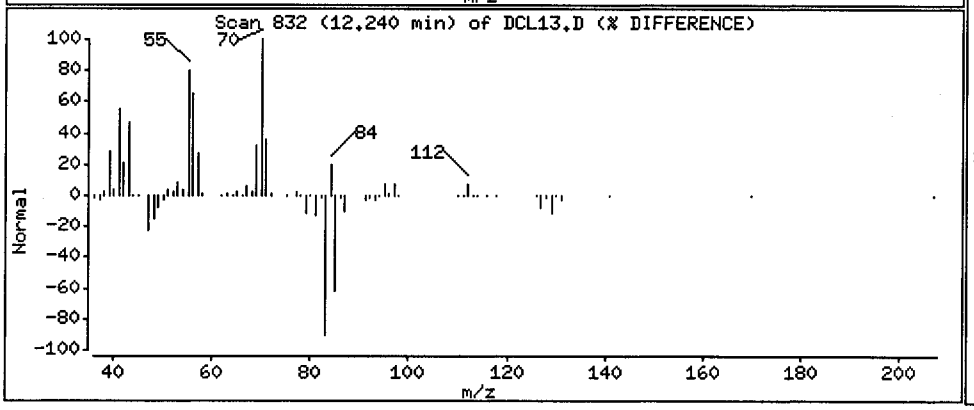












[cis-1,3-Dichloropropene; 9.1 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

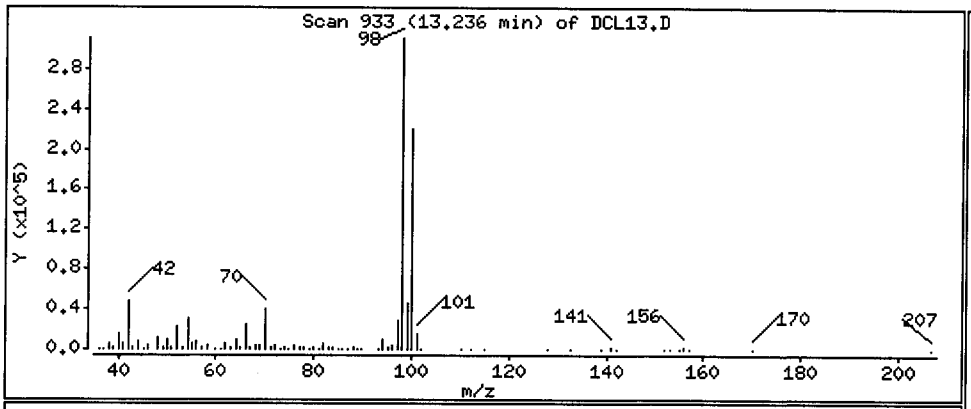
Operator: VOC

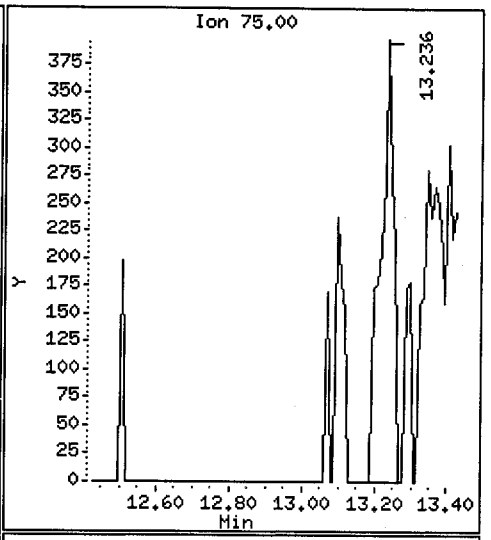
Column phase: RTx Volatiles

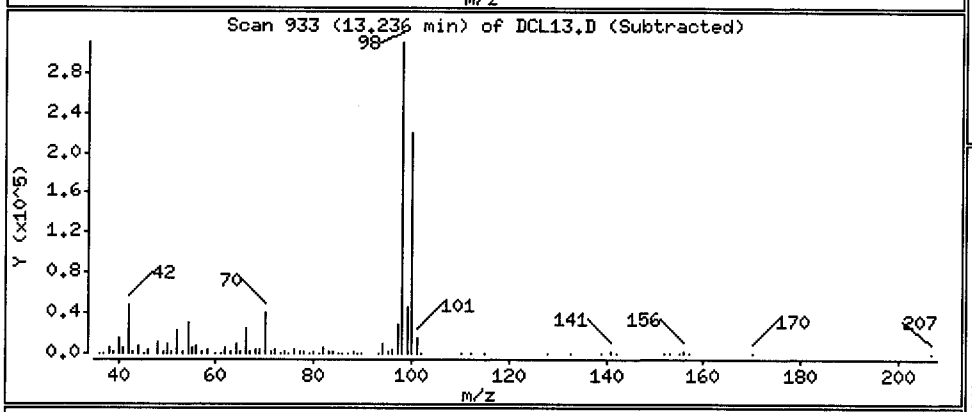
Column diameter: 0.32

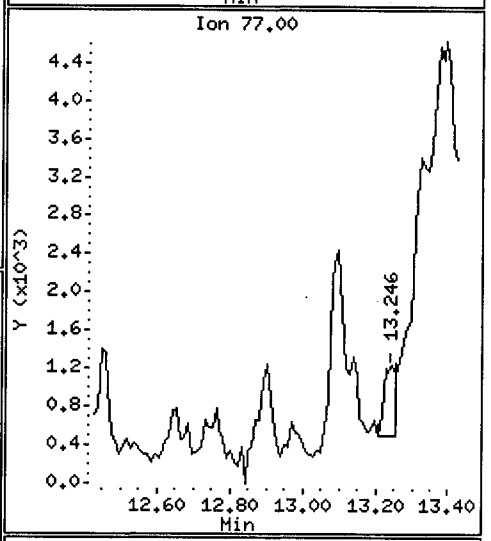
44 cis-1,3-Dichloropropene

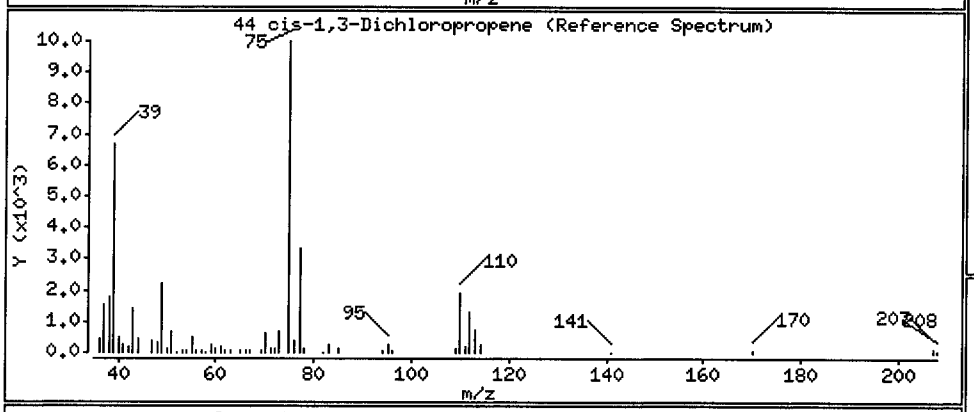
Concentration: 0.1086 UG/L

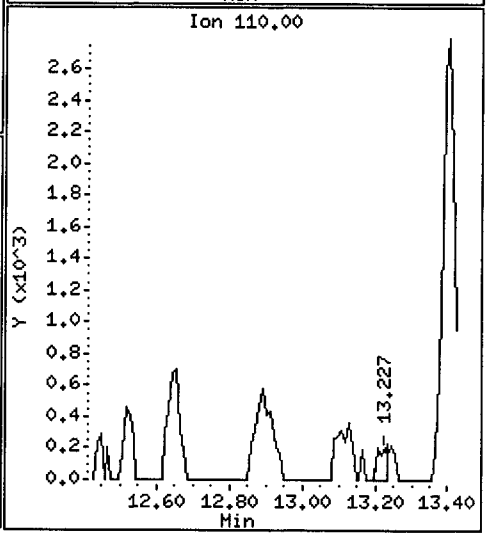


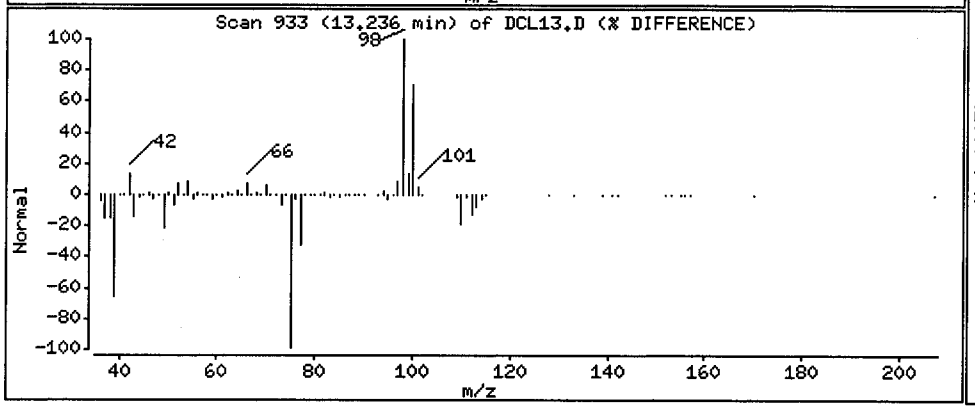












[4-Methyl-2-Pentanone; 310 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

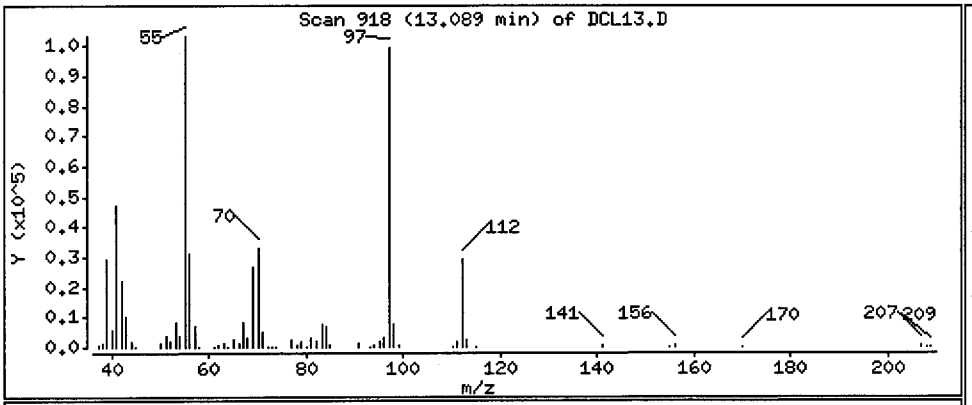
Operator: VOC

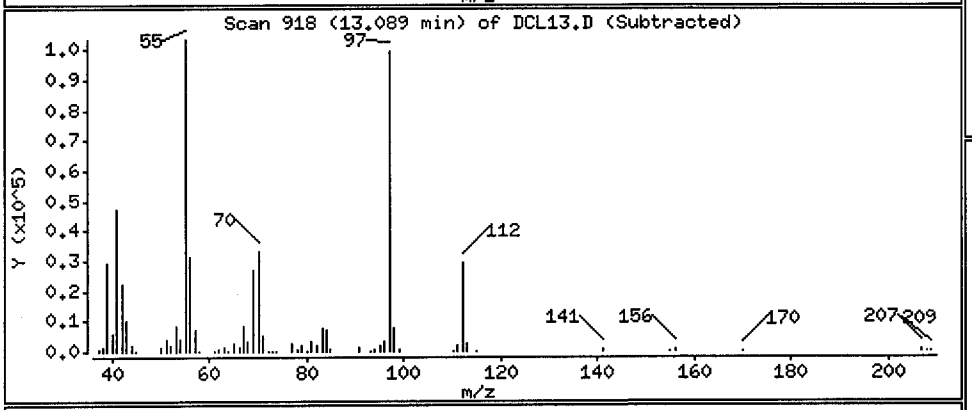
Column phase: RTx Volatiles

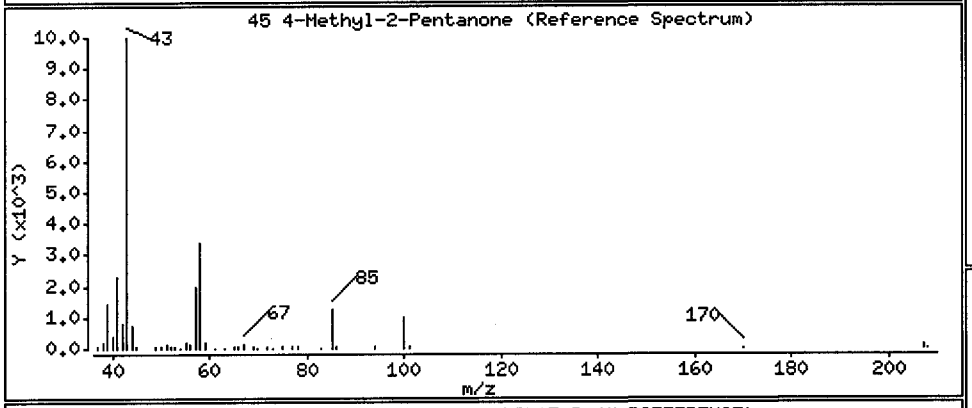
Column diameter: 0.32

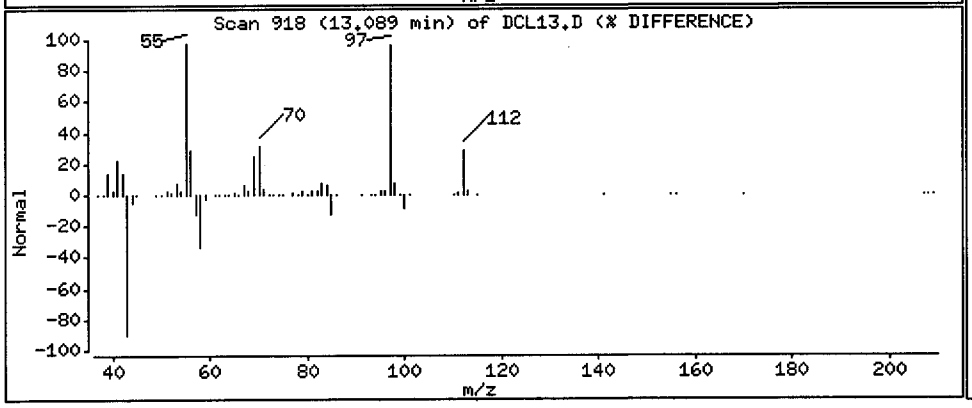
45 4-Methyl-2-Pentanone

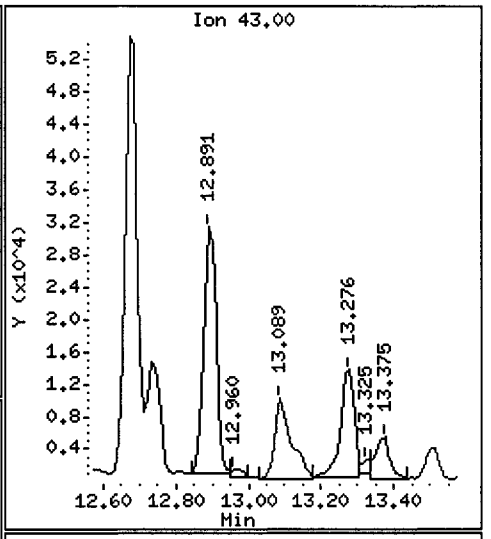
Concentration: 3.6840 UG/L

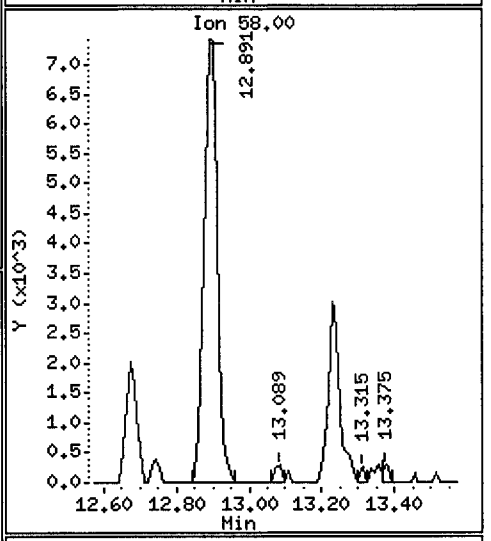


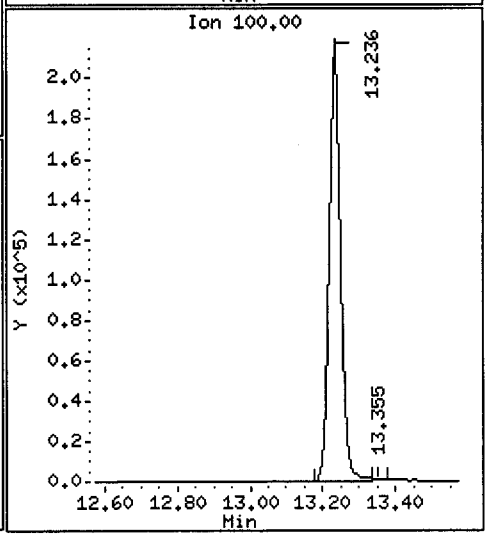












[trans-1,3-Dichloropropene; 9.0 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

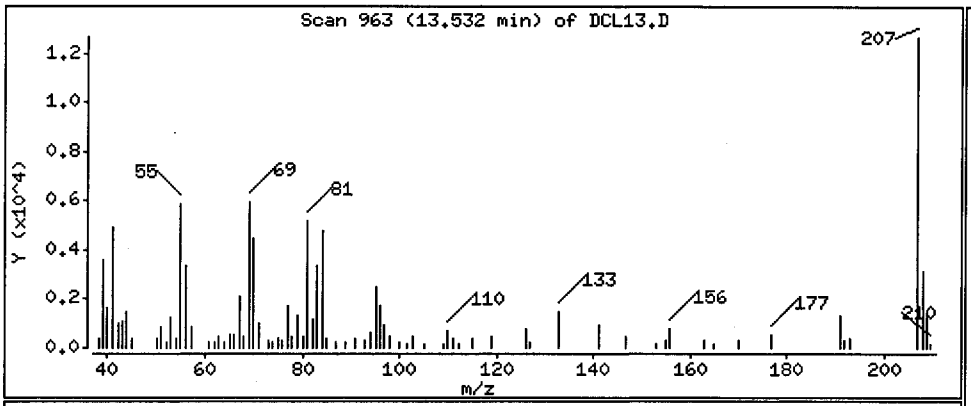
Operator: VOC

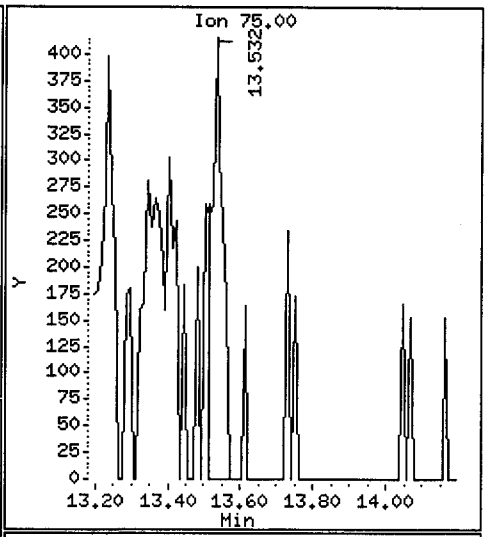
Column phase: RTx Volatiles

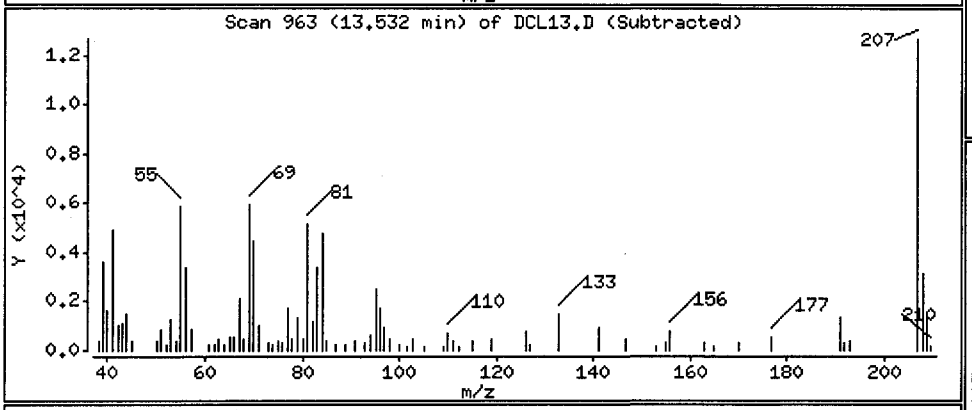
Column diameter: 0.32

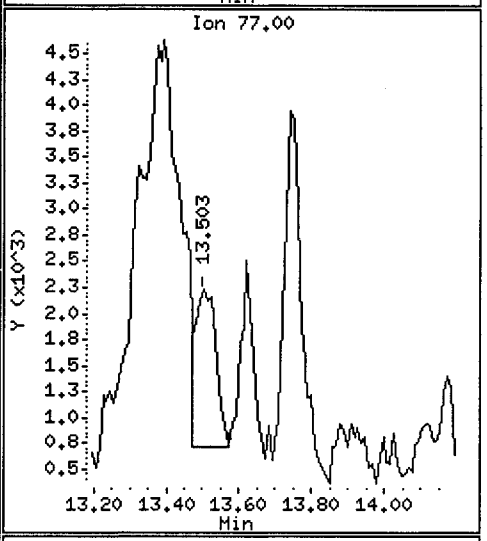
48 trans-1,3-Dichloropropene

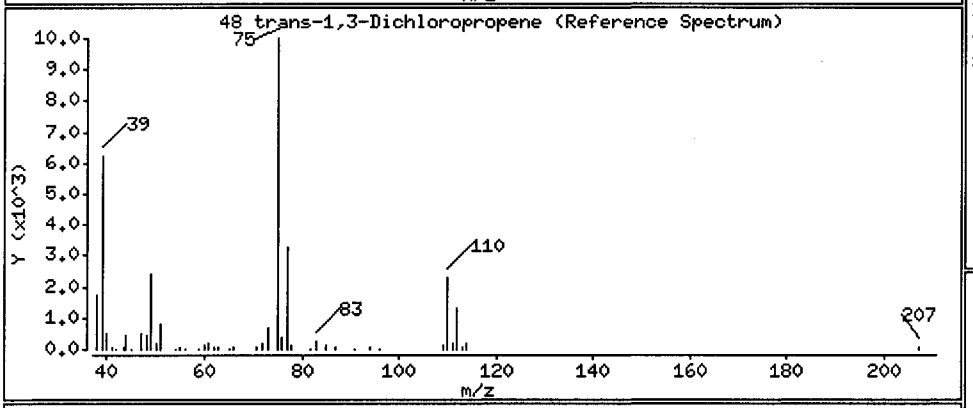
Concentration: 0.1073 UG/L

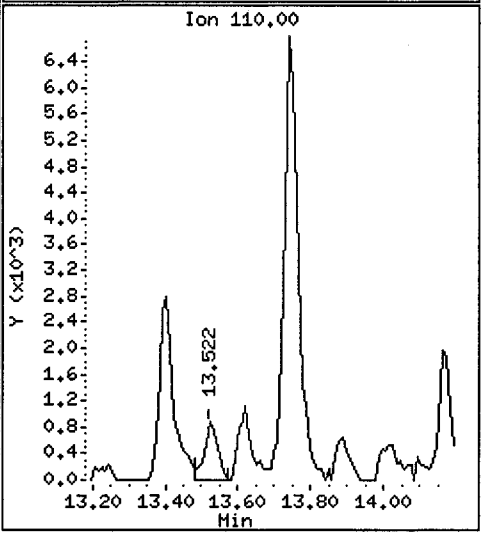


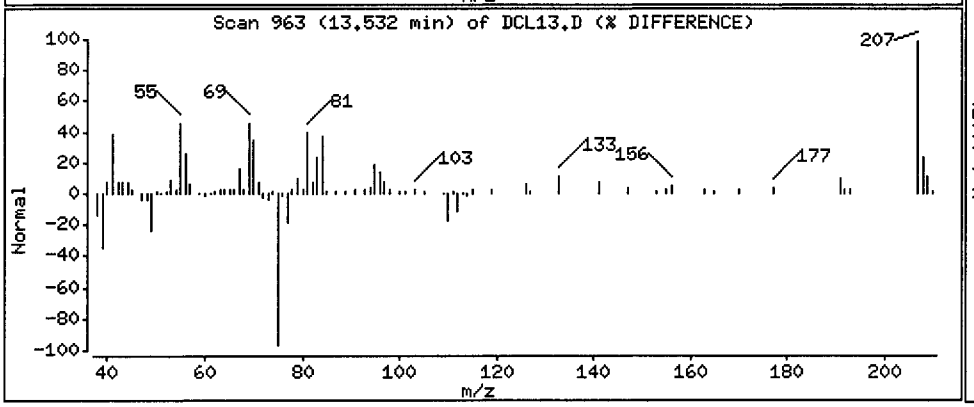












[1,1,2-Trichloroethane; 20 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

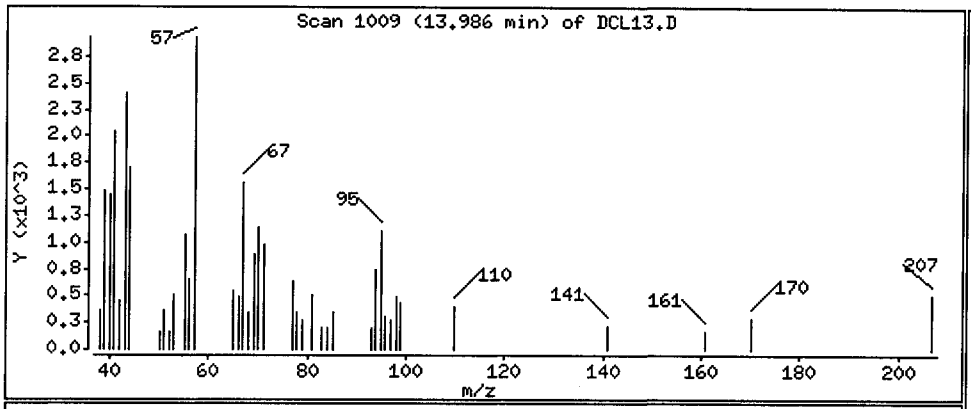
Operator: VOC

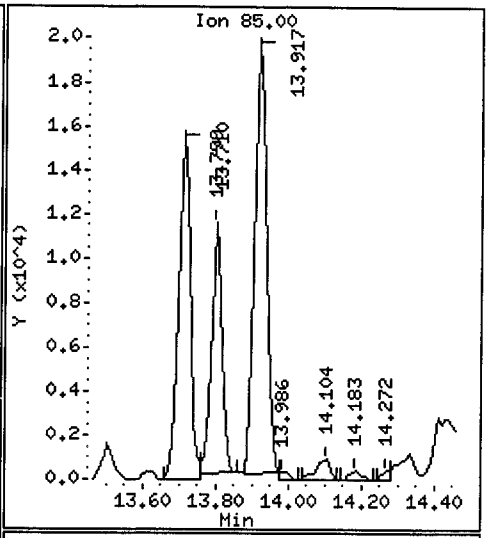
Column phase: RTx Volatiles

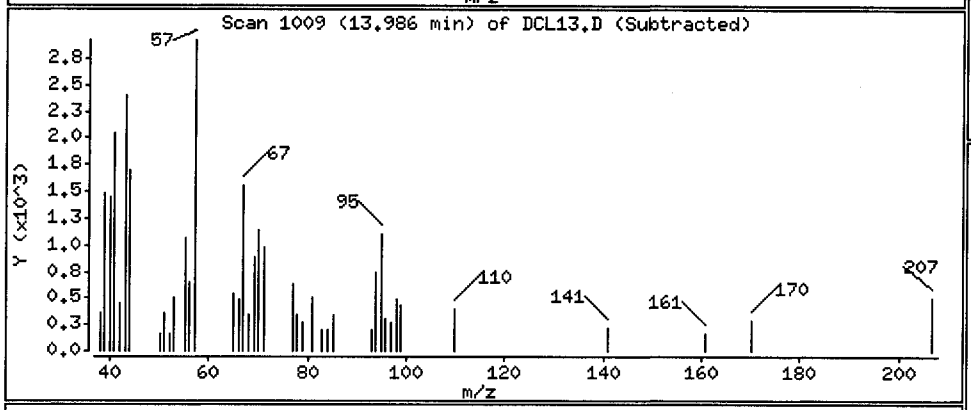
Column diameter: 0.32

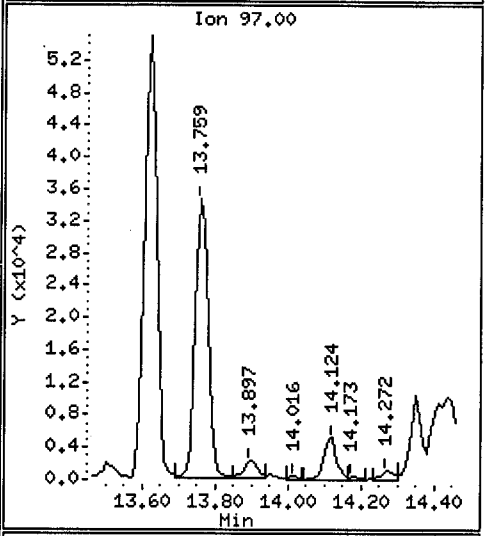
49 1,1,2-Trichloroethane

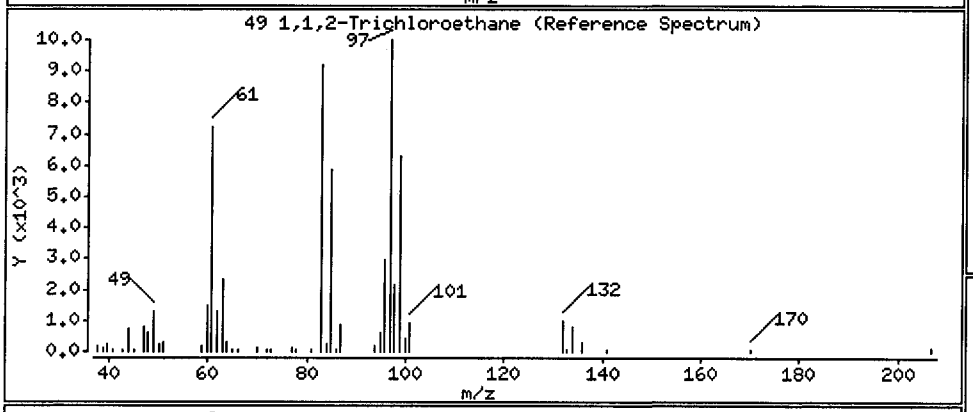
Concentration: 0.2447 UG/L

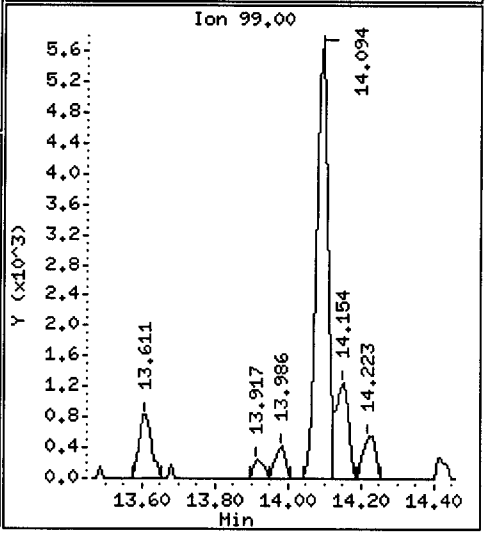


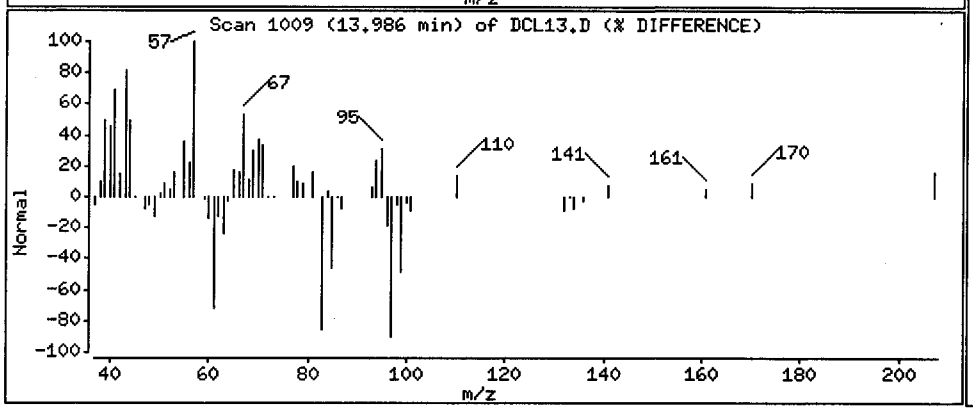












[Dibromochloromethane; 9.3 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

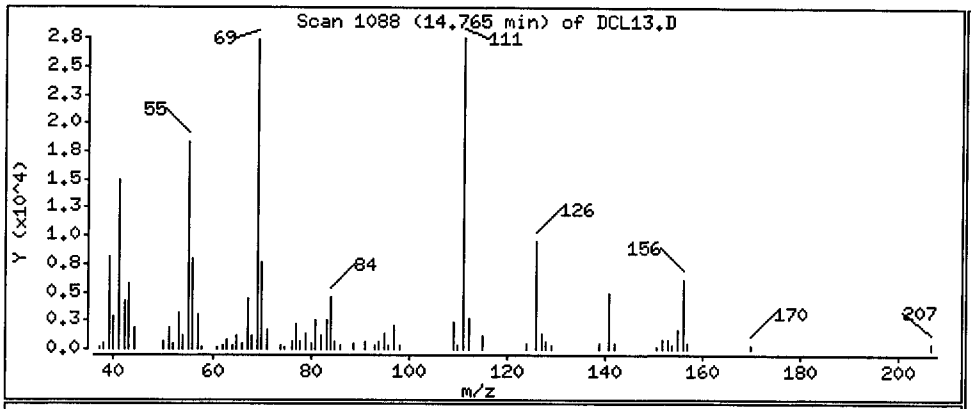
Operator: VOC

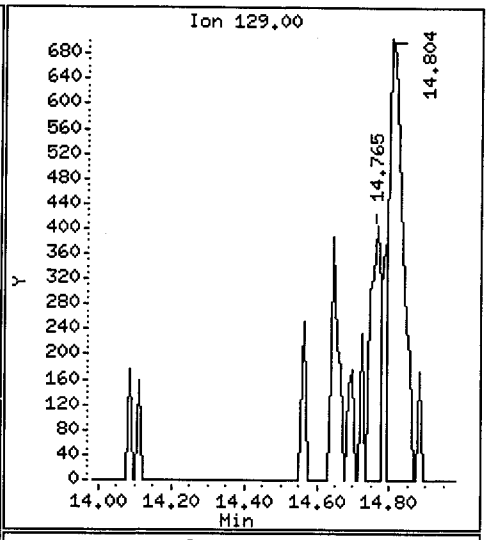
Column phase: RTx Volatiles

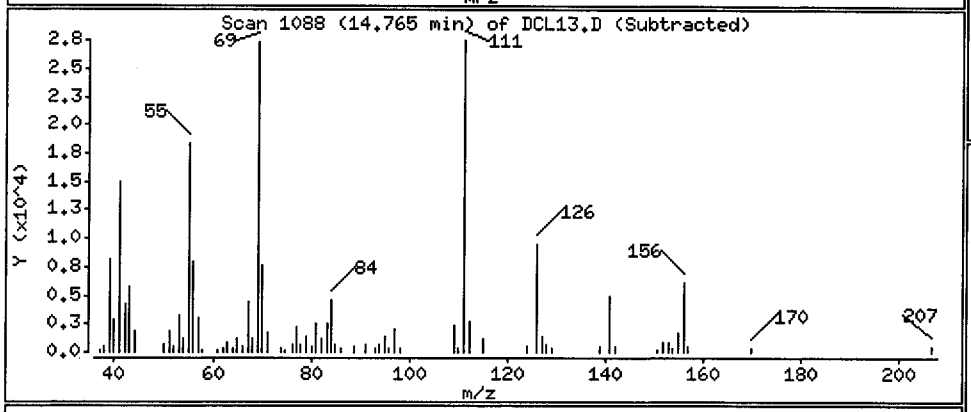
Column diameter: 0.32

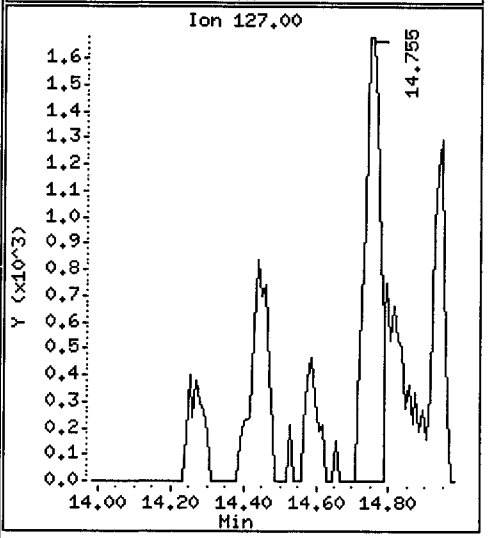
53 Dibromochloromethane

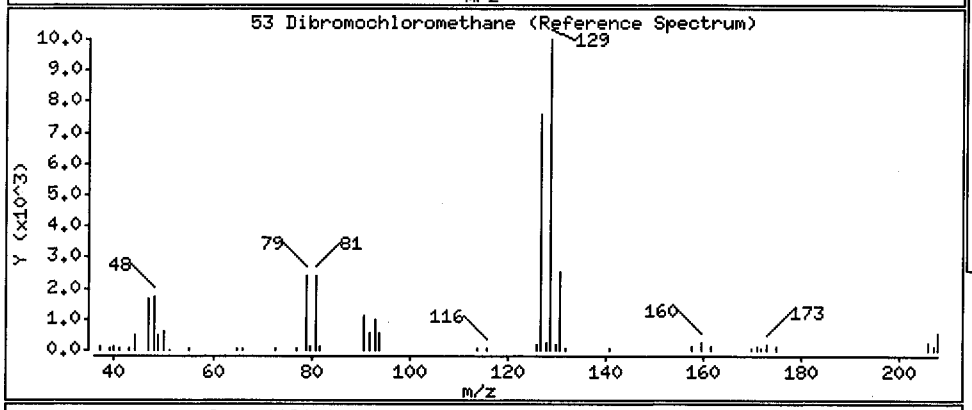
Concentration: 0.1110 UG/L

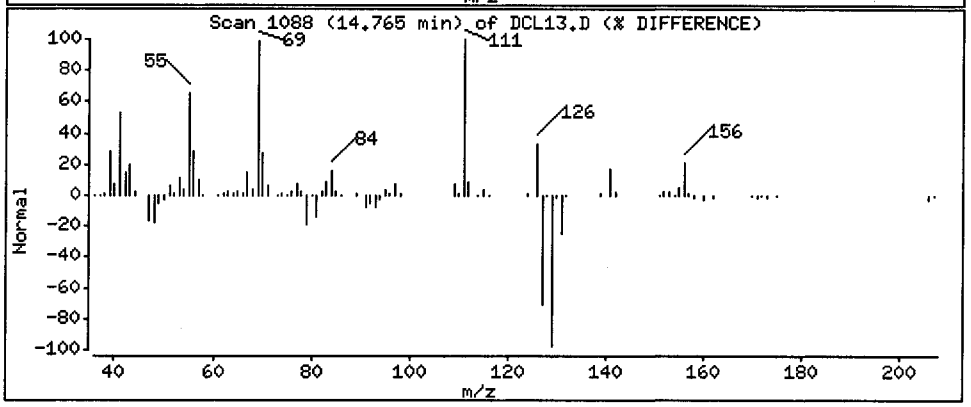












[Chlorobenzene; 21 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

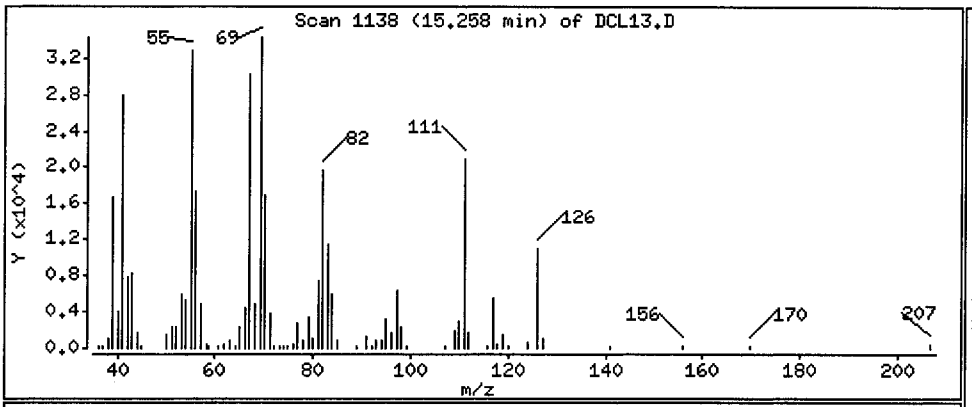
Operator: VOC

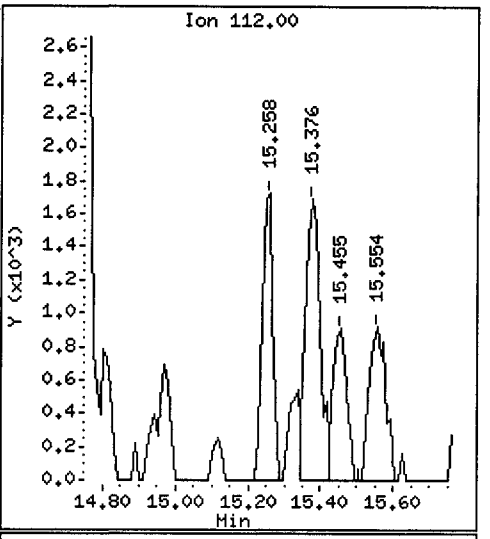
Column phase: RTx Volatiles

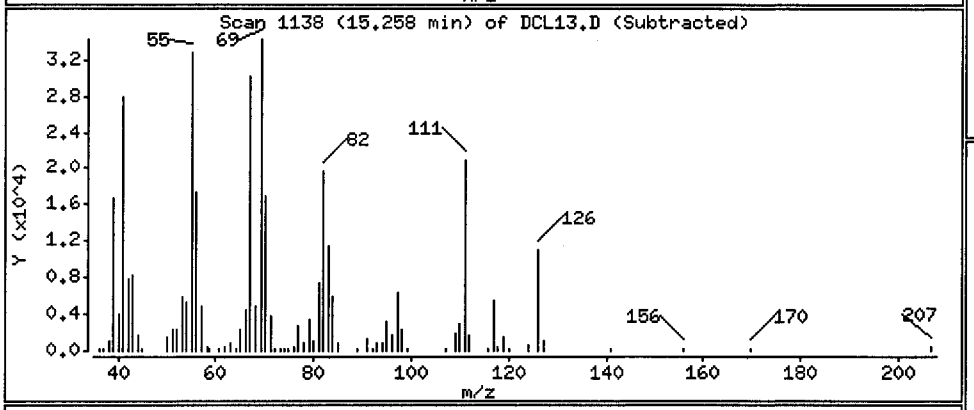
Column diameter: 0.32

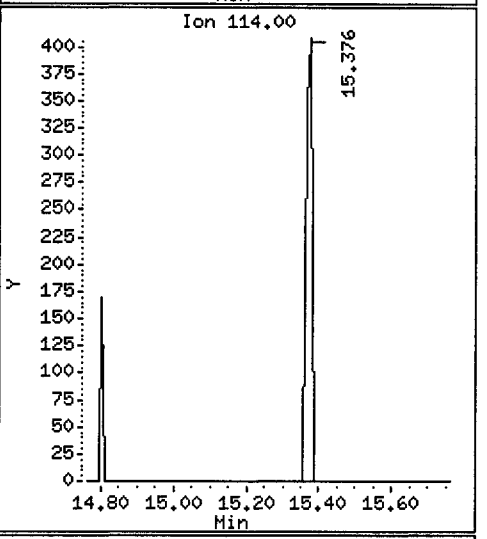
56 Chlorobenzene

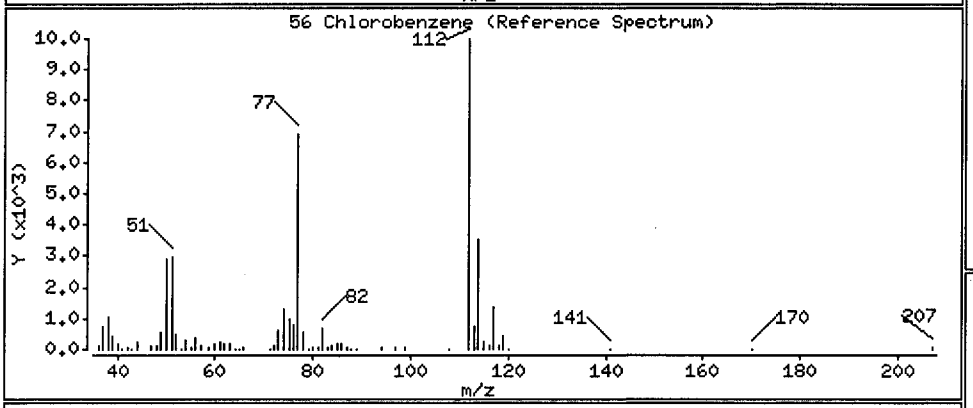
Concentration: 0.2571 UG/L

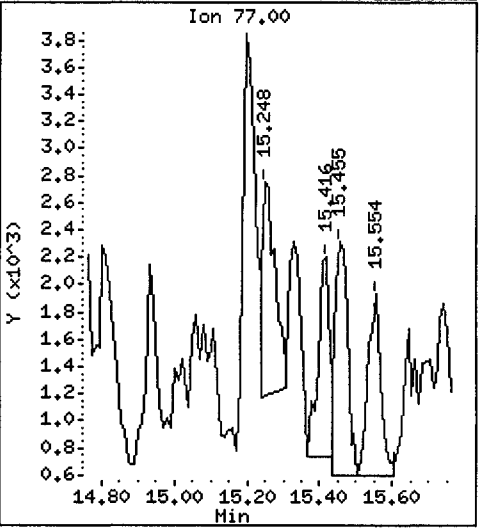


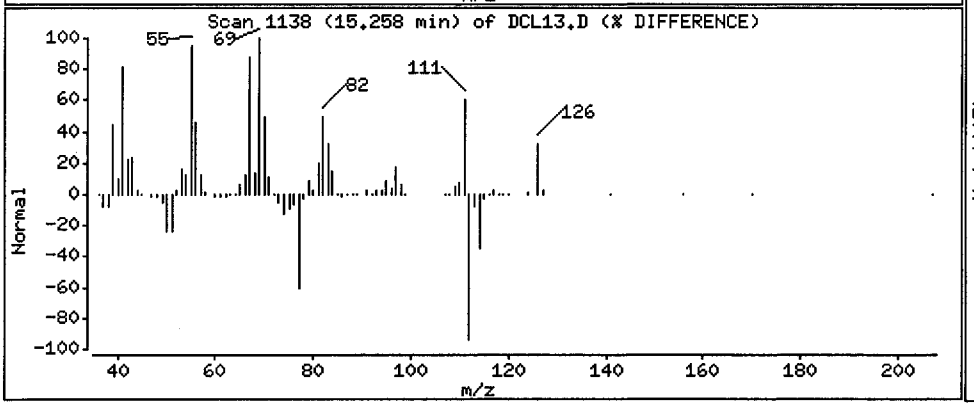












[Ethylbenzene; 17 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

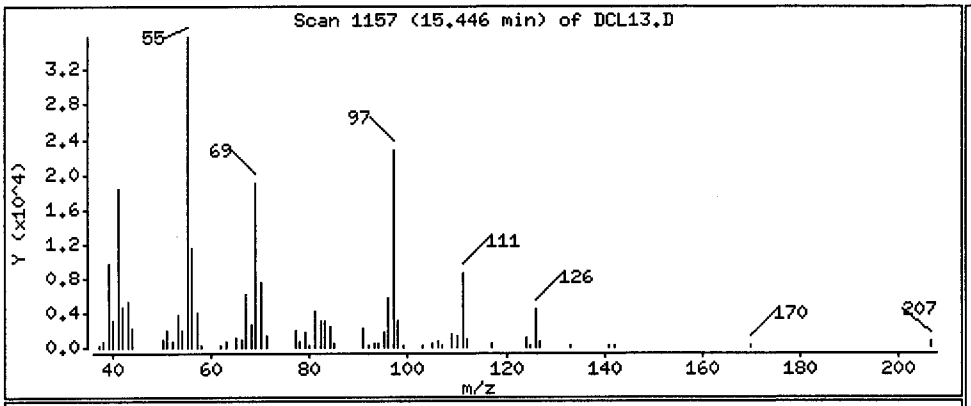
Operator: VOC

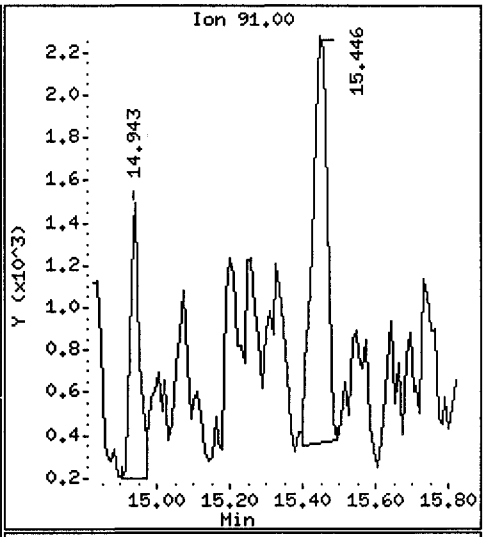
Column phase: RTx Volatiles

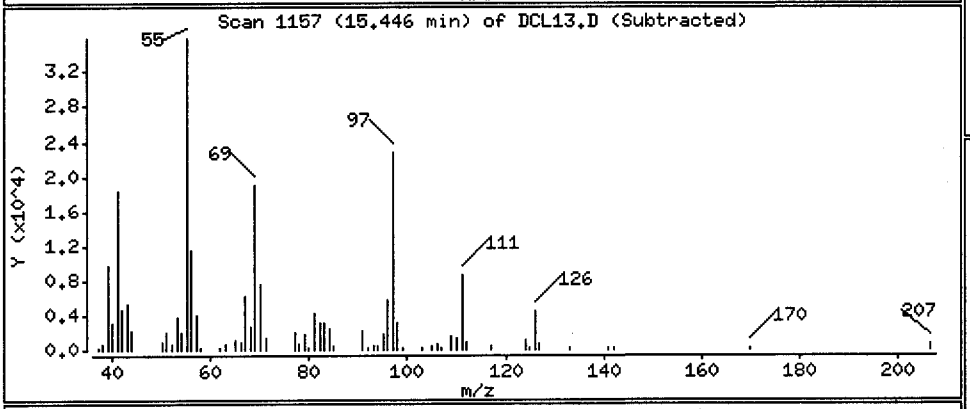
Column diameter: 0.32

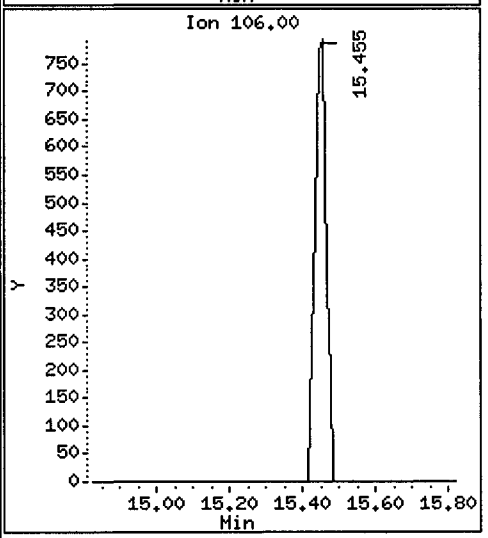
57 Ethylbenzene

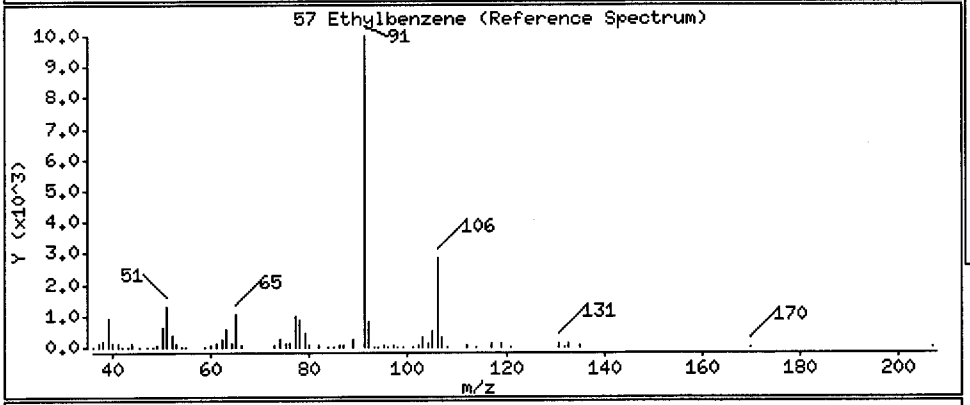
Concentration: 0.2079 UG/L

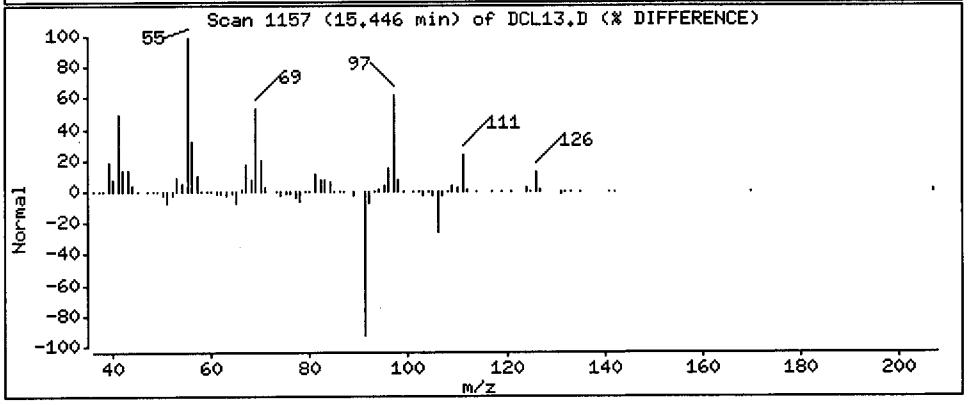












[Isopropylbenzene; 22 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

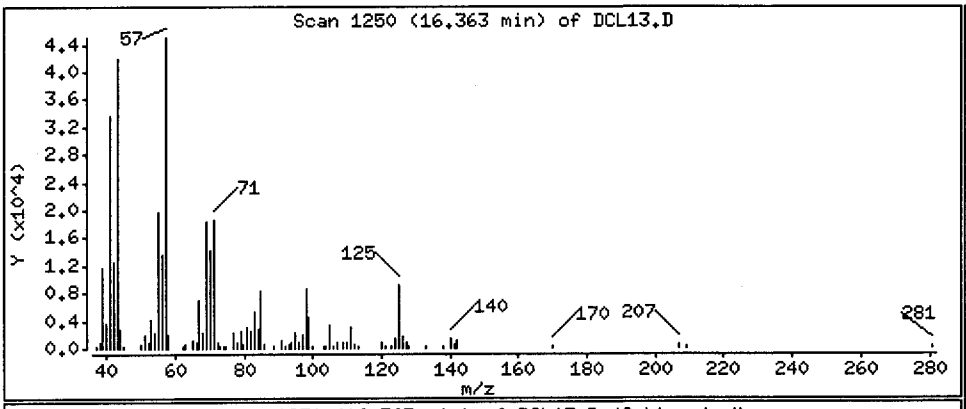
Operator: VOC

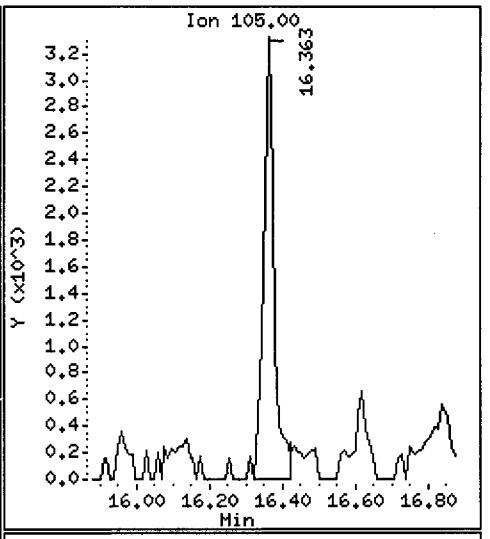
Column phase: RTx Volatiles

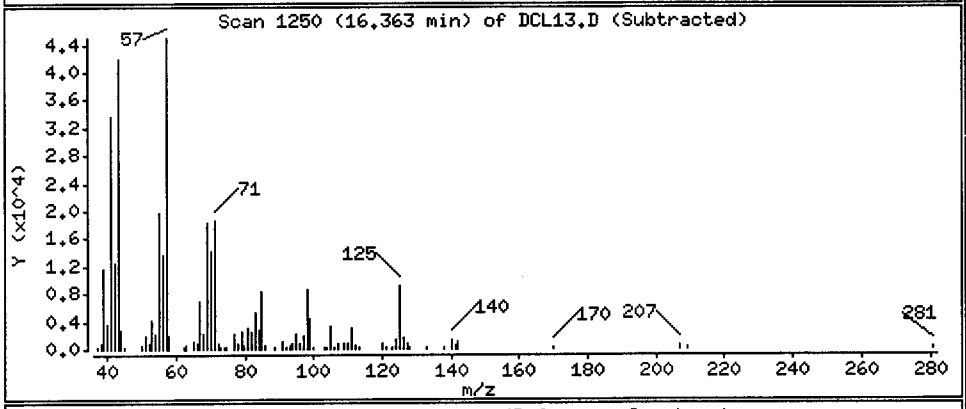
Column diameter: 0.32

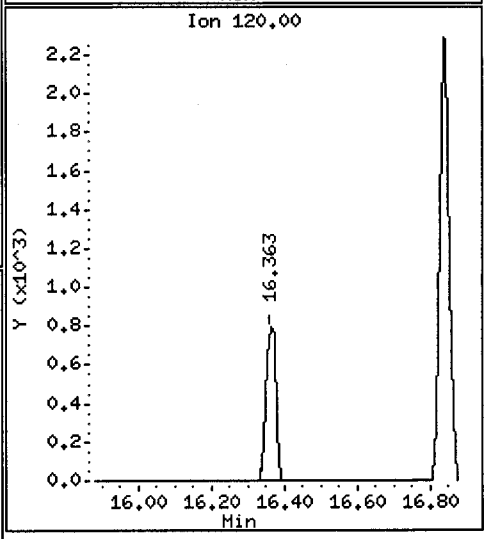
63 Isopropylbenzene

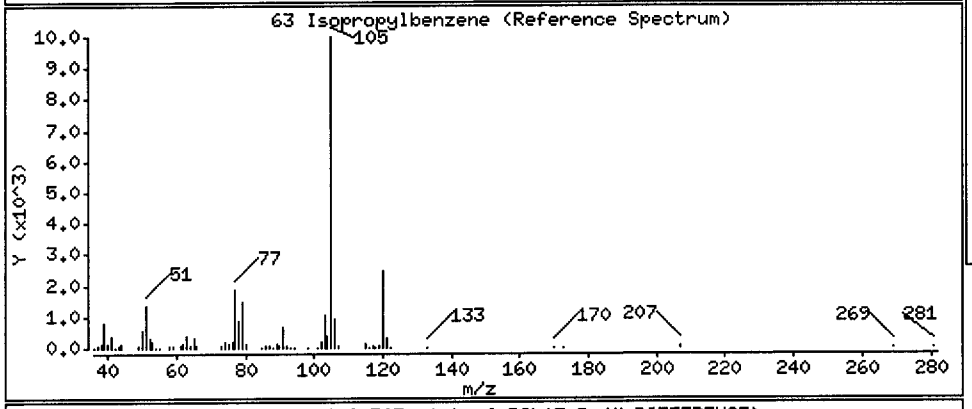
Concentration: 0.2639 UG/L

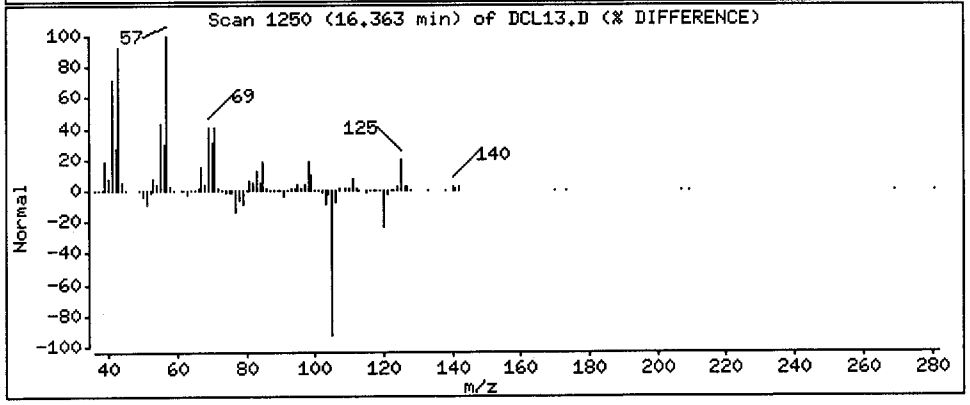












[1,1,2,2-Tetrachloroethane; 150 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

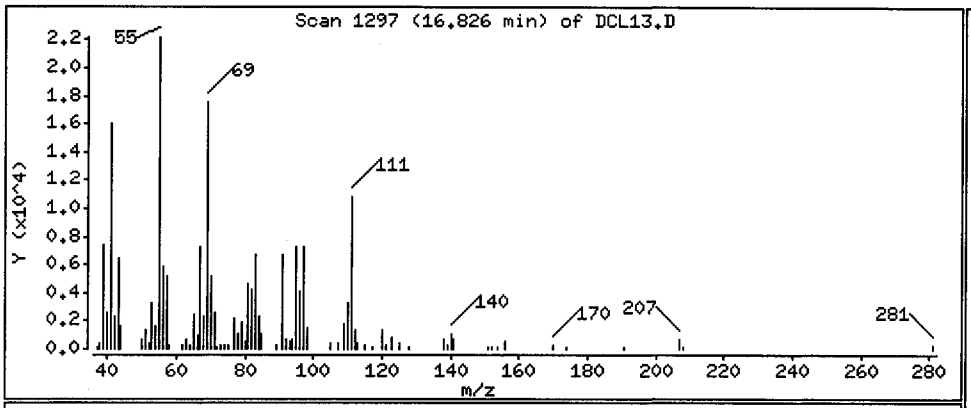
Operator: VOC

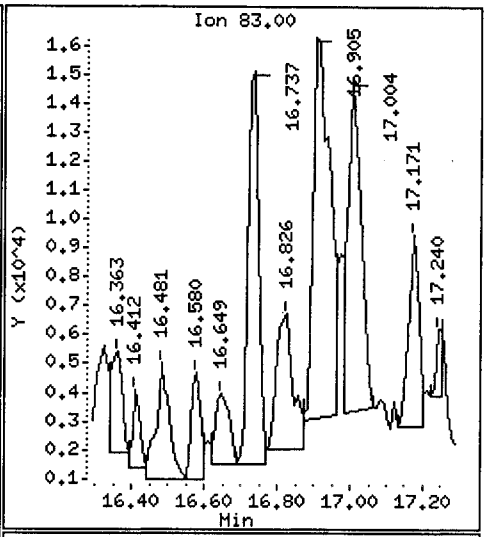
Column phase: RTx Volatiles

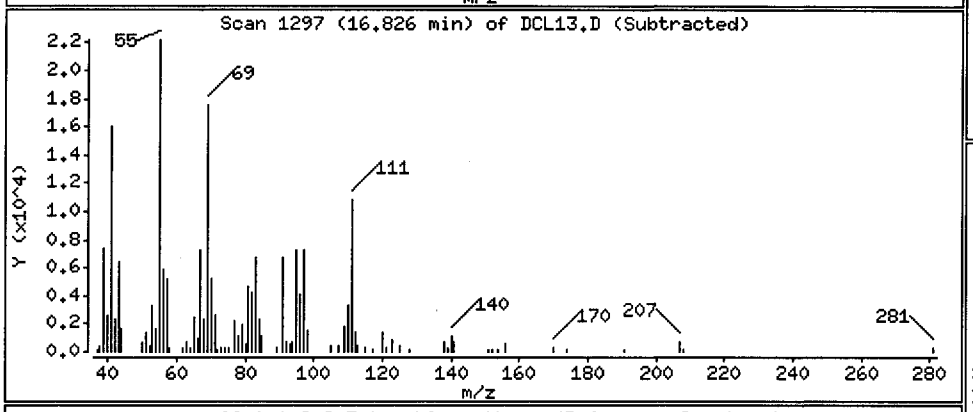
Column diameter: 0.32

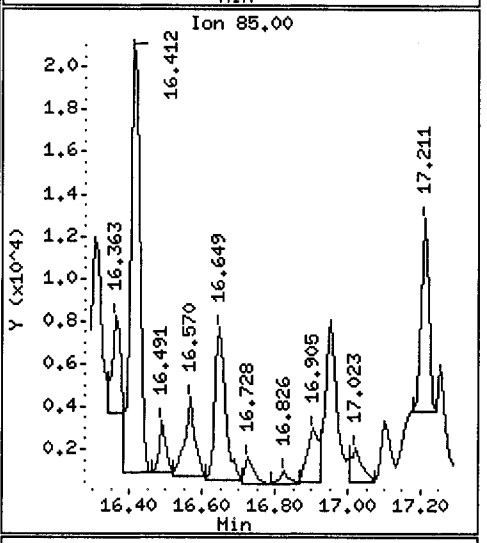
66 1,1,2,2-Tetrachloroethane

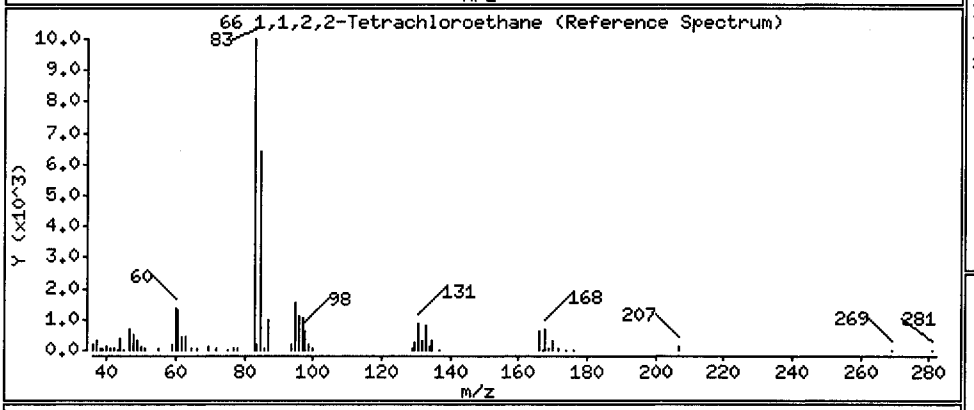
Concentration: 1.8225 UG/L

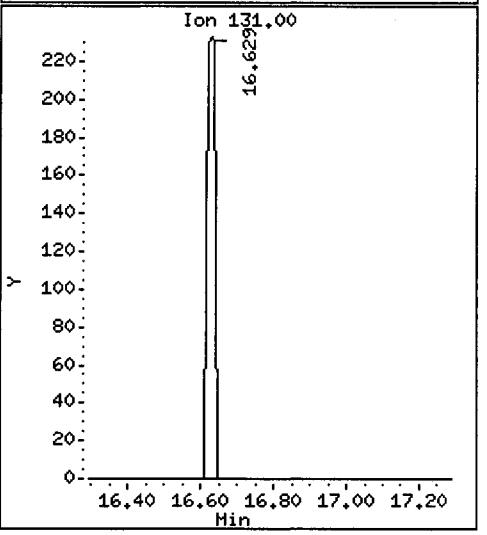


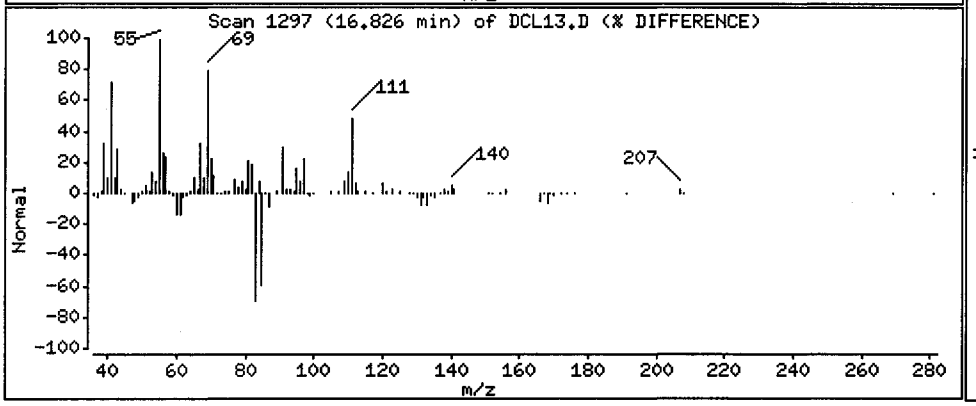












[Bromobenzene; 34 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

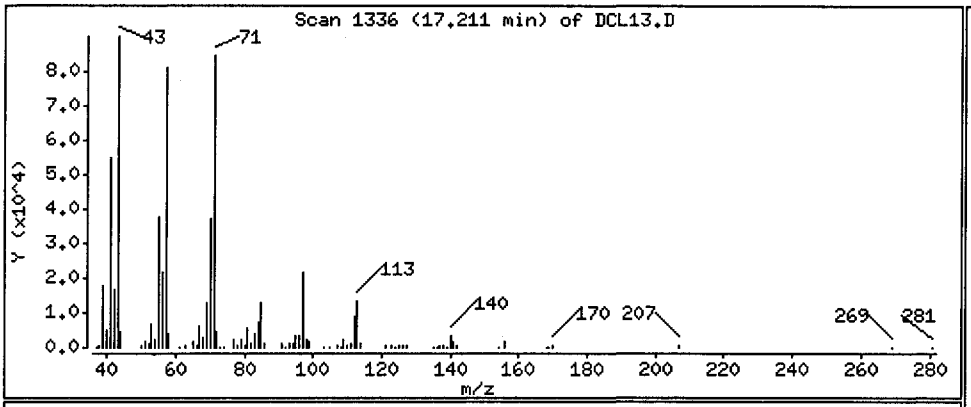
Operator: VOC

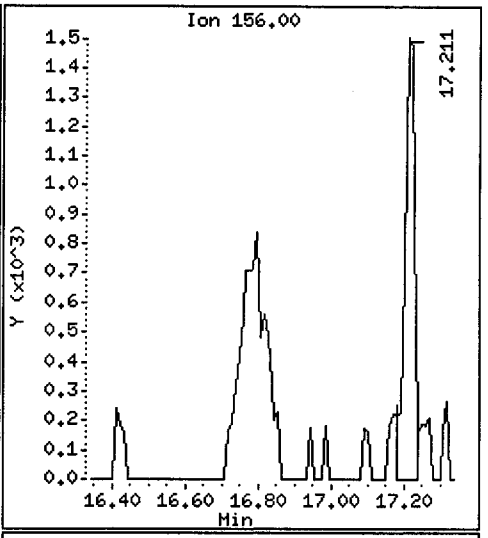
Column phase: RTx Volatiles

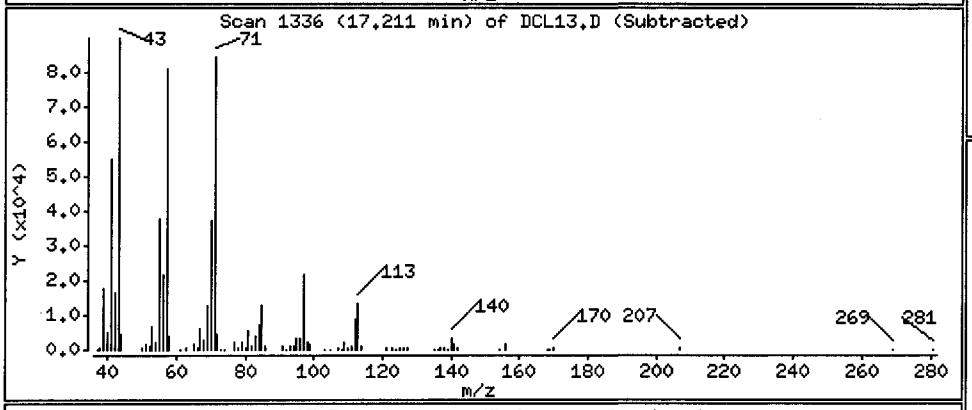
Column diameter: 0.32

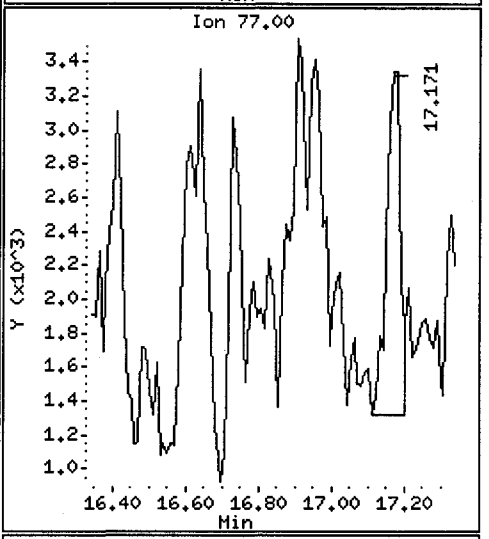
67 Bromobenzene

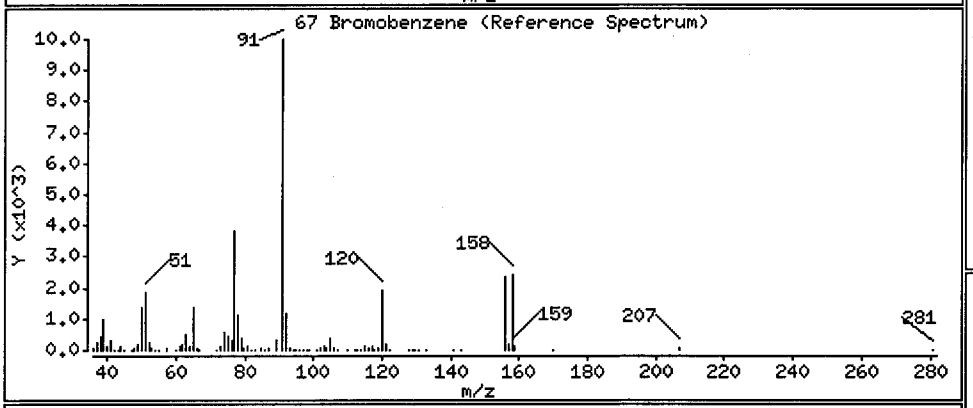
Concentration: 0.4137 UG/L

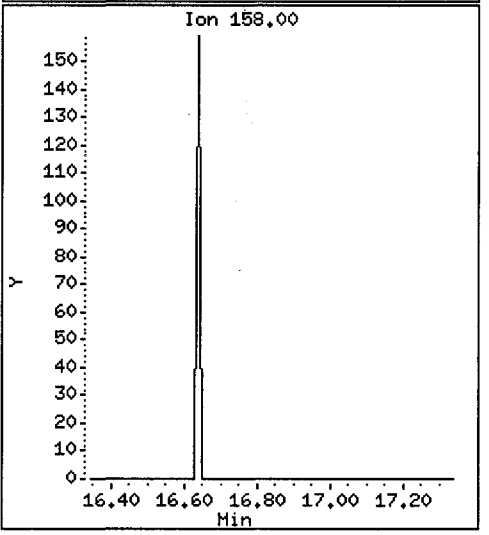


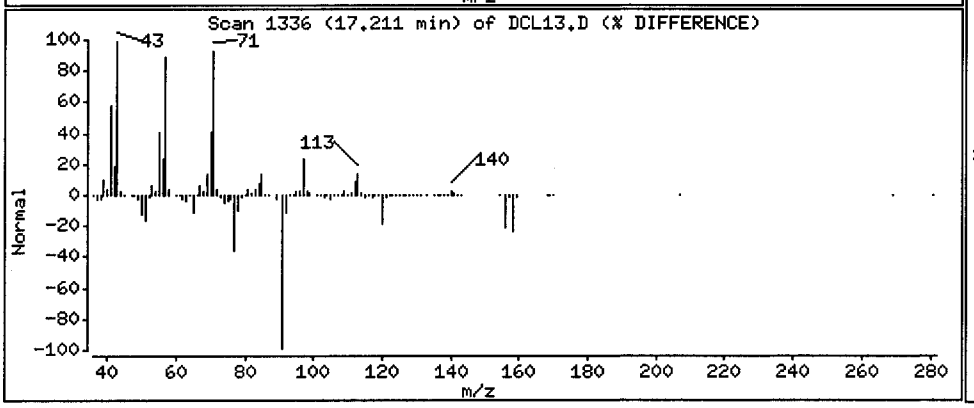












[Propylbenzene; 56 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

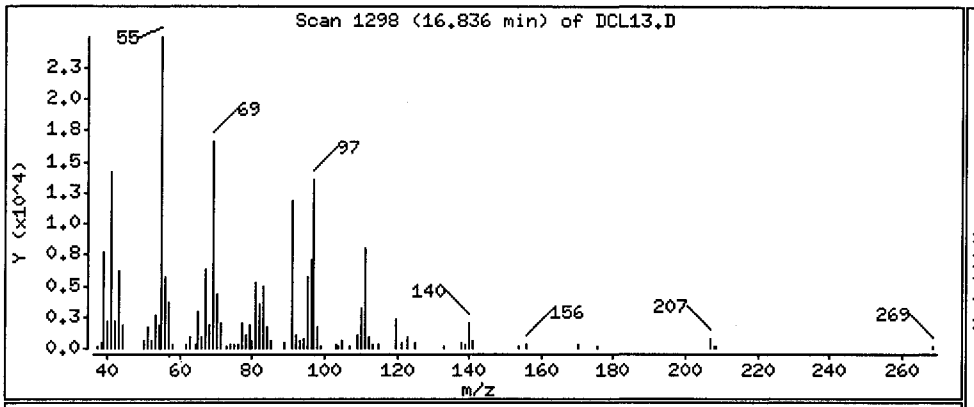
Operator: VOC

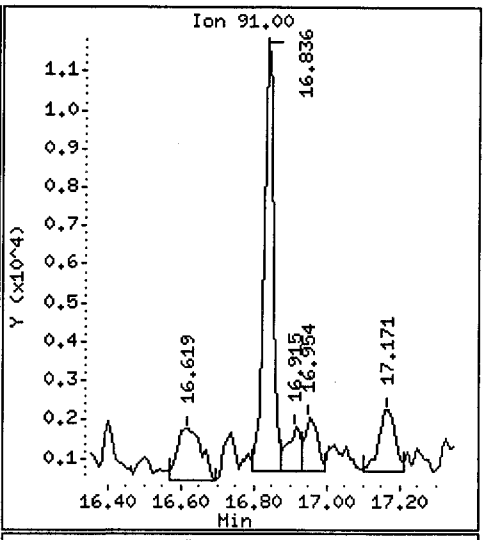
Column phase: RTx Volatiles

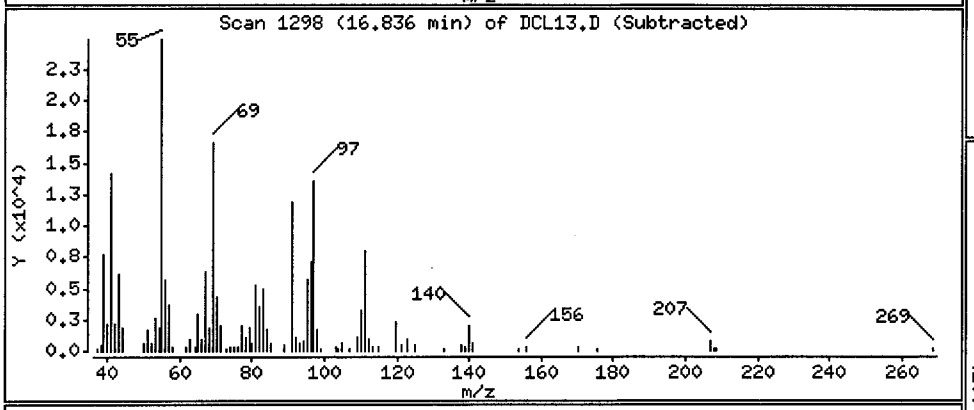
Column diameter: 0.32

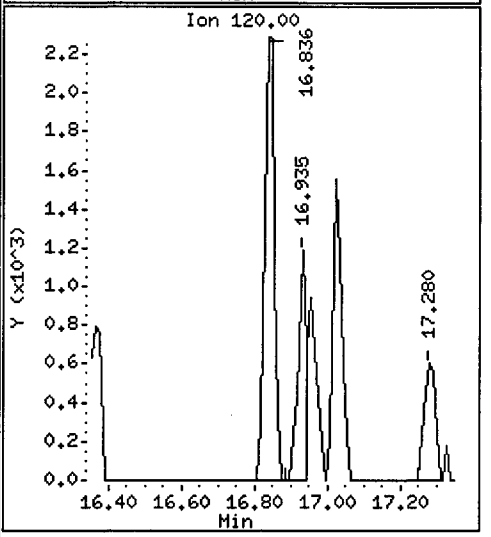
68 Propylbenzene

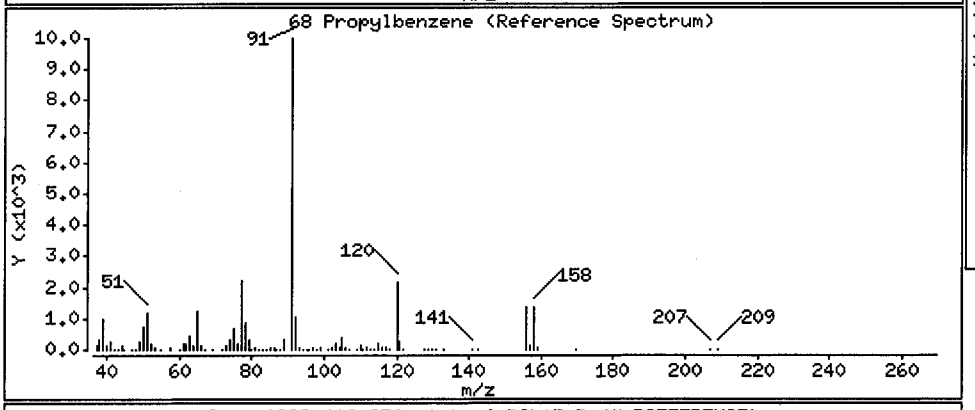
Concentration: 0.6705 UG/L

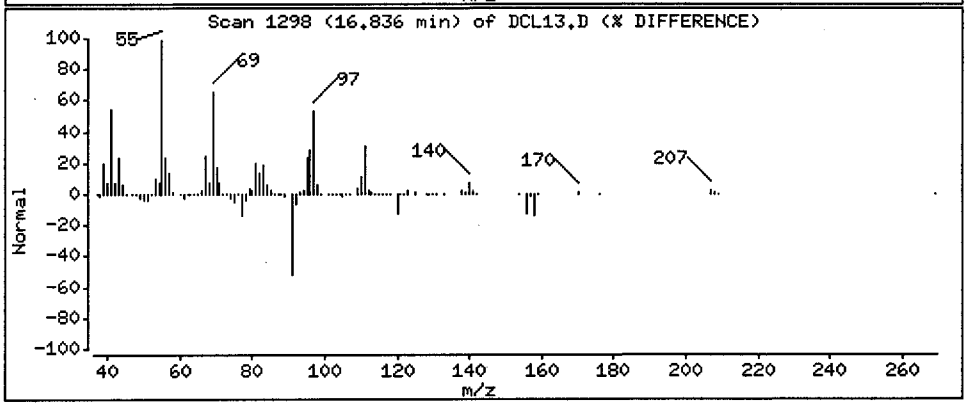












[1,2,3-Trichloropropane; 11 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

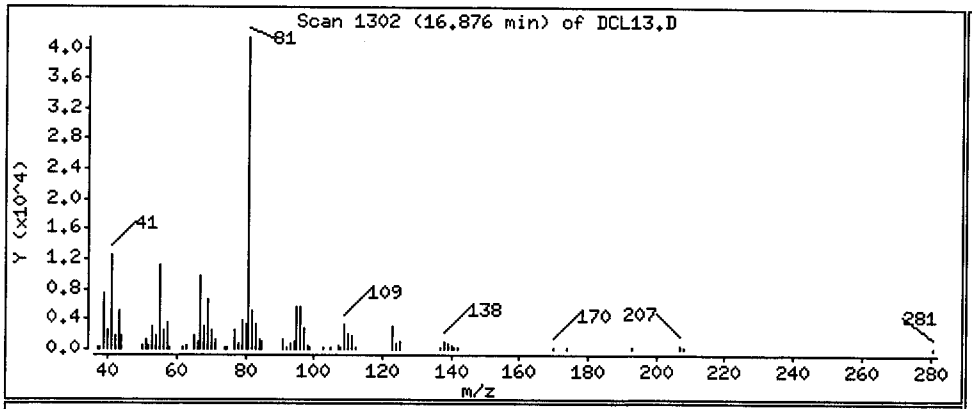
Operator: VOC

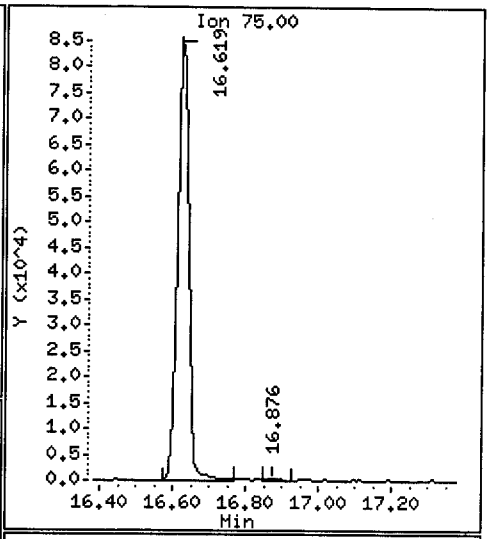
Column phase: RTx Volatiles

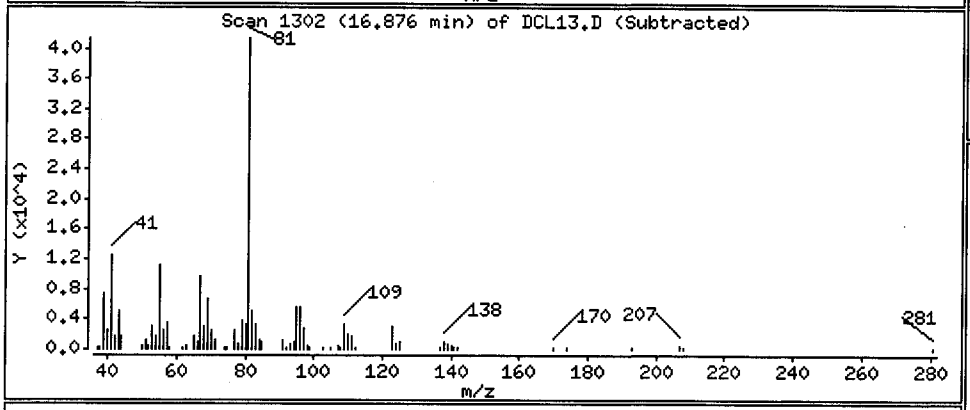
Column diameter: 0.32

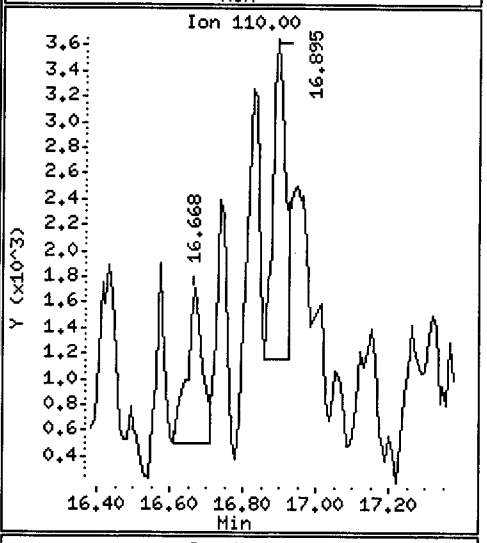
69 1,2,3-Trichloropropane

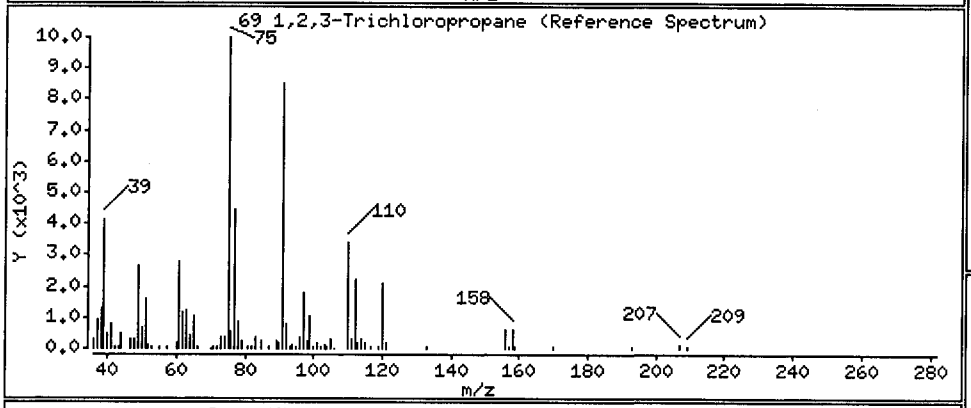
Concentration: 0.1347 UG/L

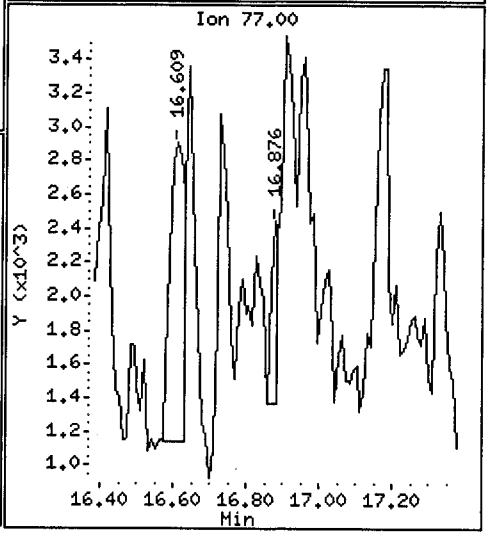


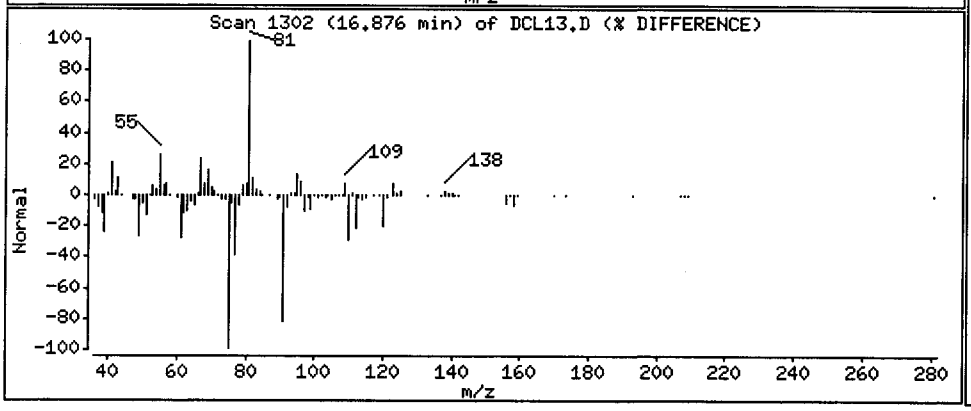












[2-Chlorotoluene; 11 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

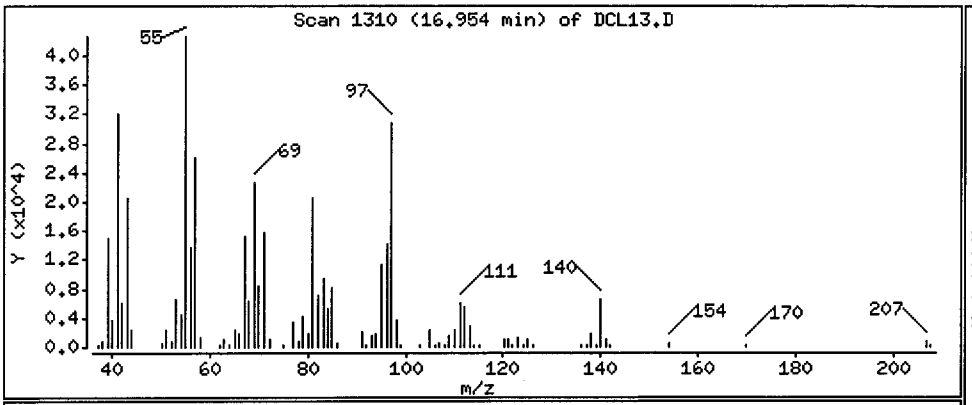
Operator: VOC

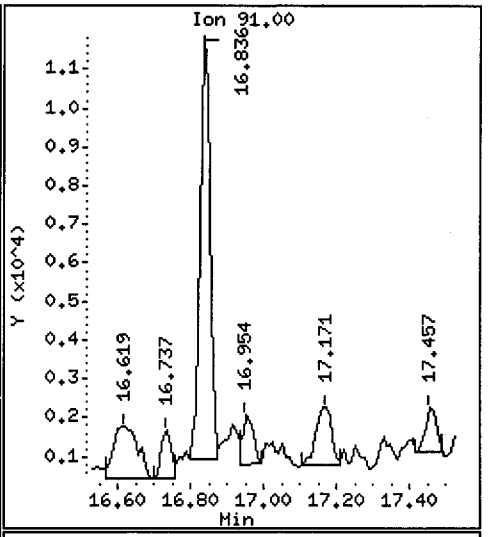
Column phase: RTx Volatiles

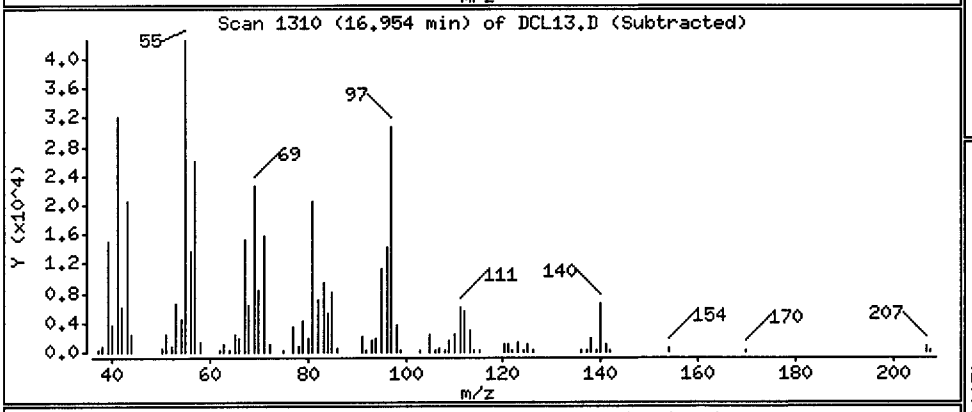
Column diameter: 0.32

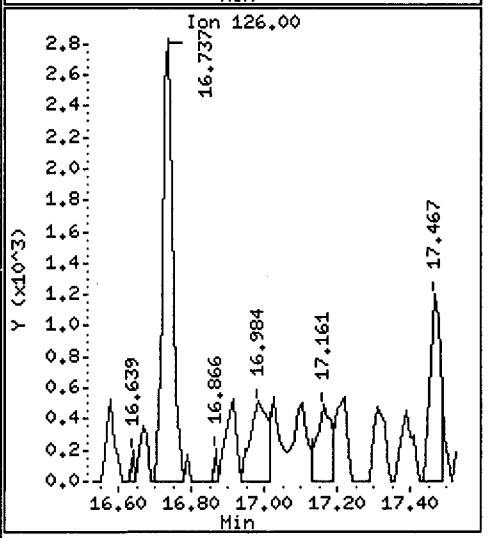
70 2-Chlorotoluene

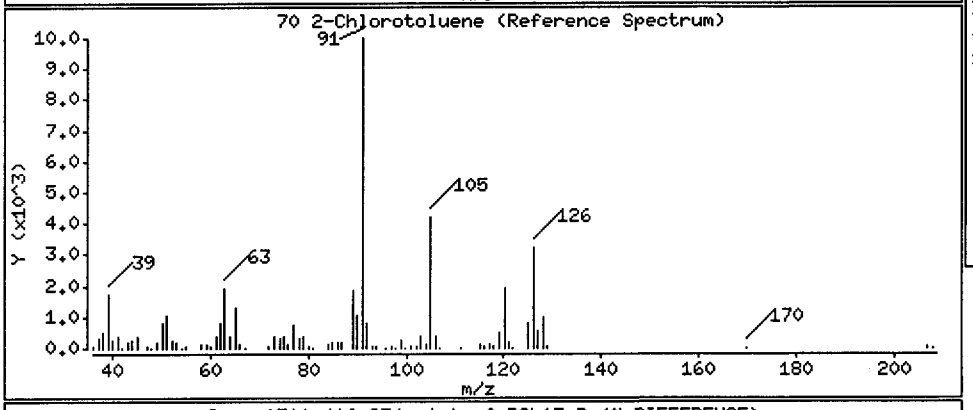
Concentration: 0.1342 UG/L

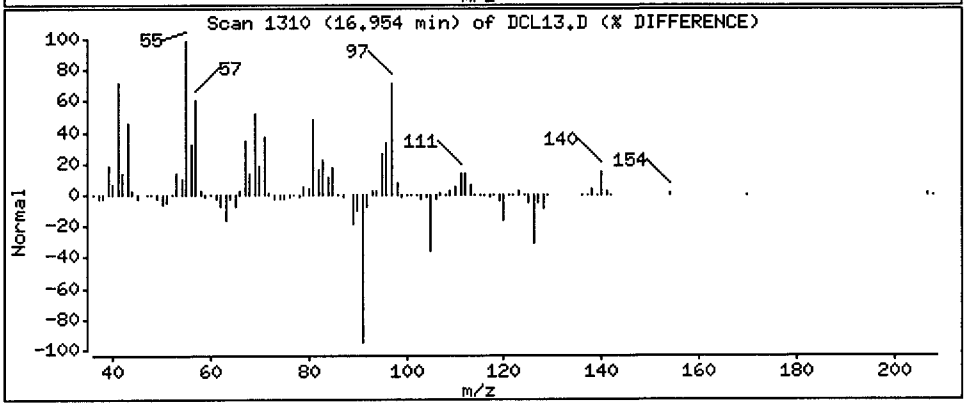












[1,3,5-Trimethylbenzene; 29 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

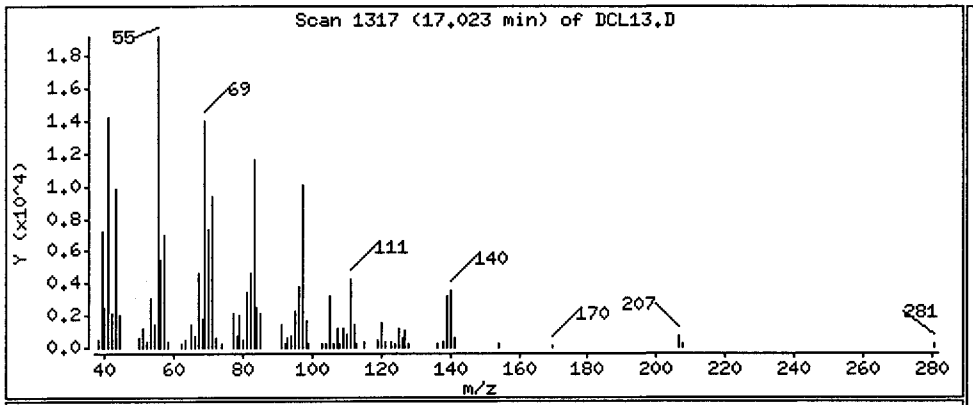
Operator: VOC

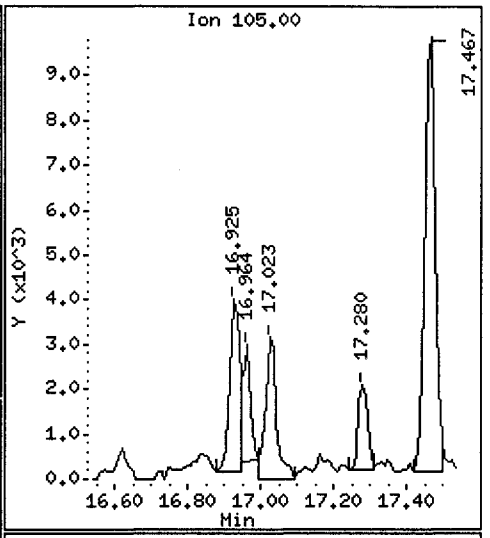
Column phase: RTx Volatiles

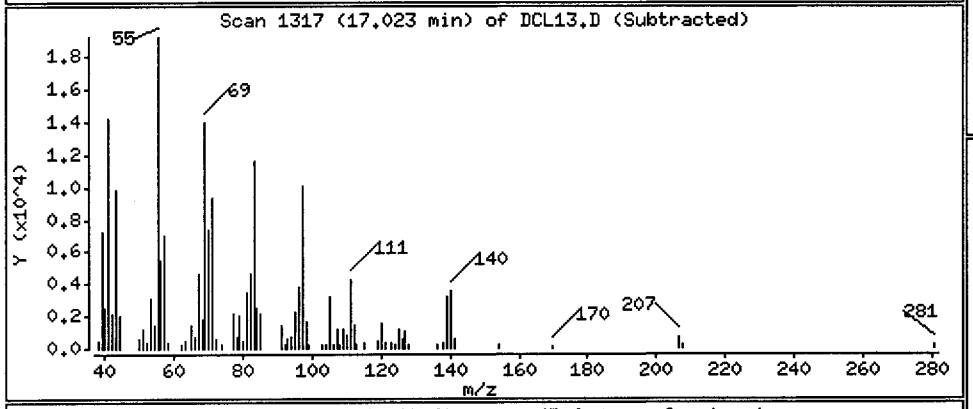
Column diameter: 0.32

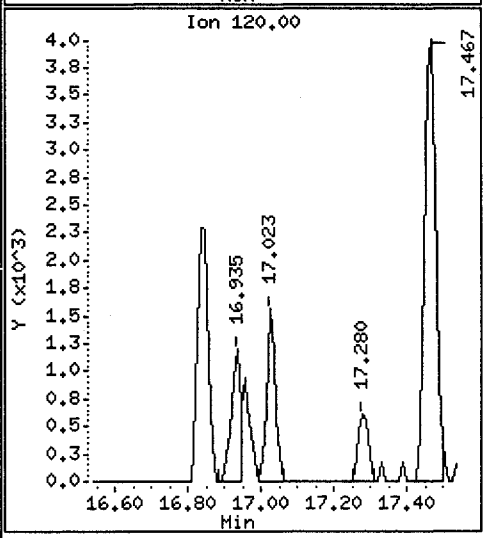
71 1,3,5-Trimethylbenzene

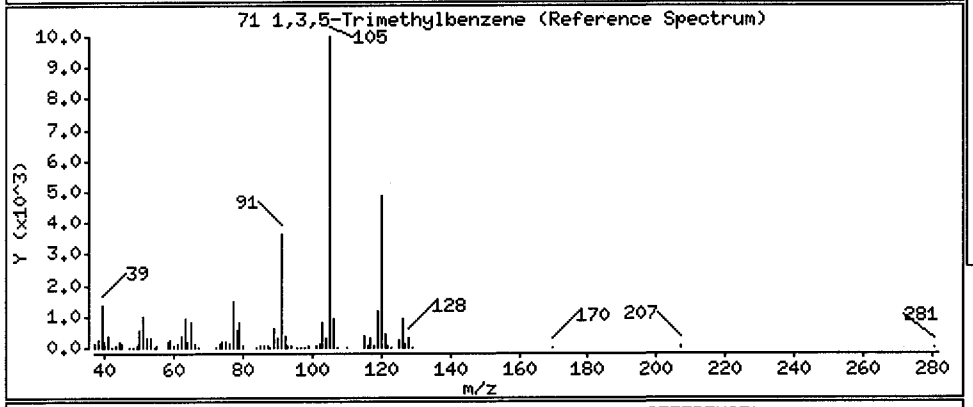
Concentration: 0.3429 UG/L

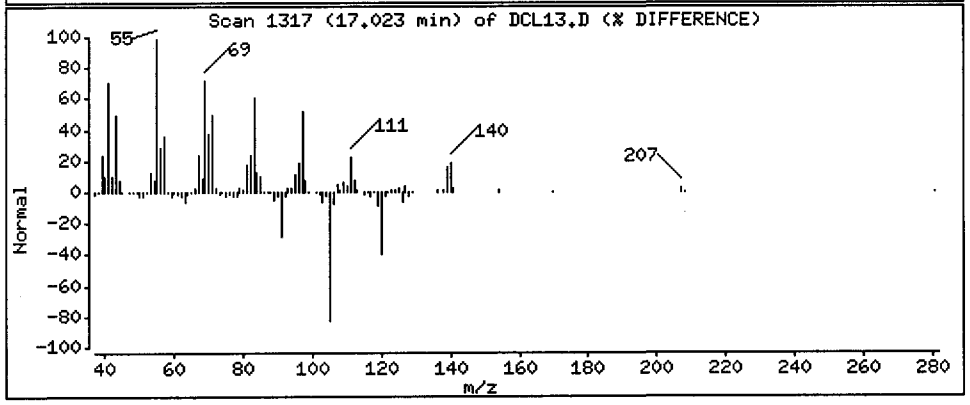












[4-Chlorotoluene; 19 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

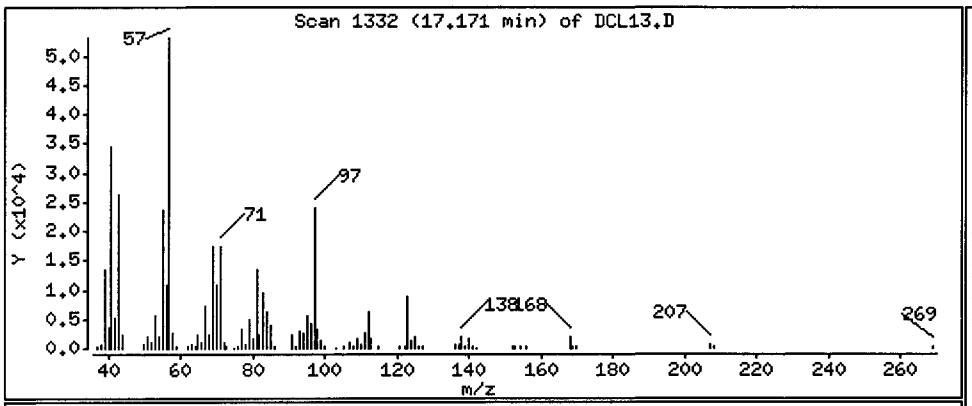
Operator: VOC

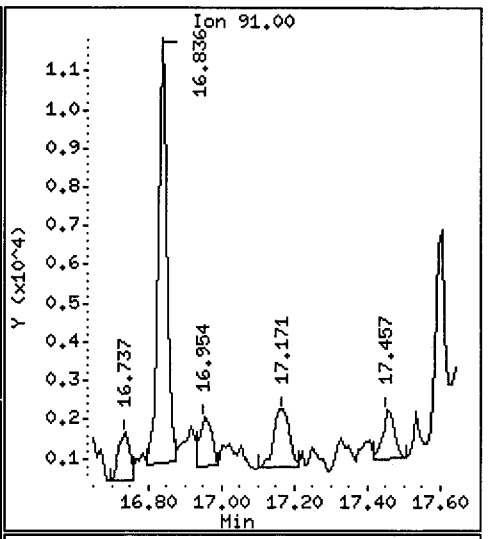
Column phase: RTx Volatiles

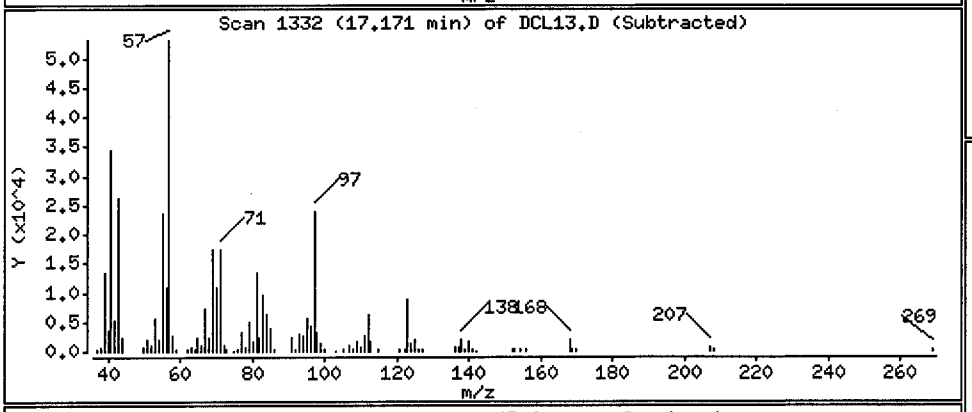
Column diameter: 0.32

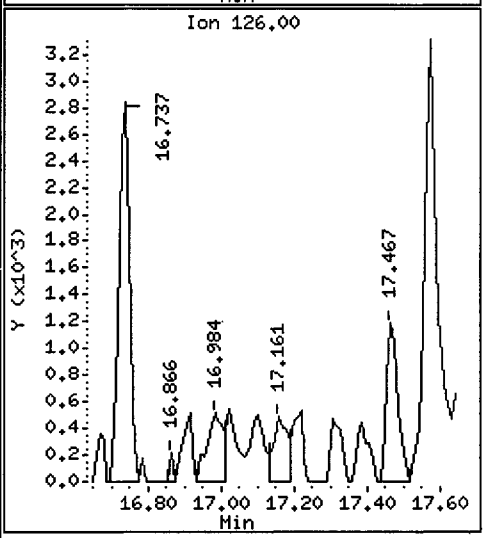
72 4-Chlorotoluene

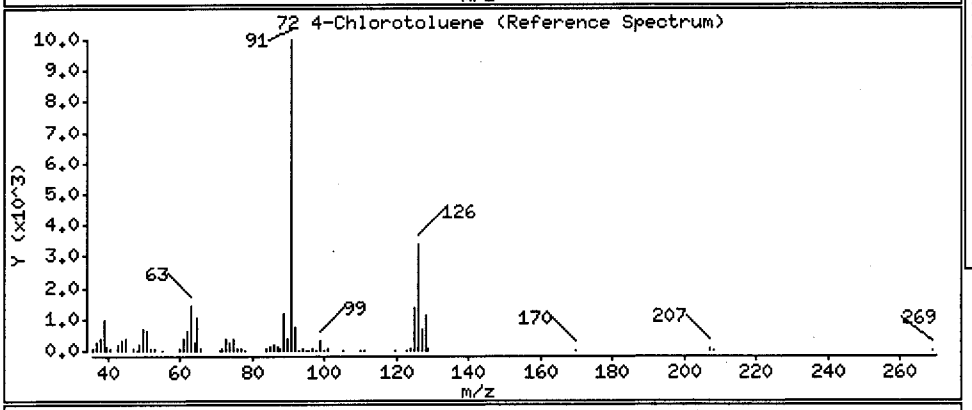
Concentration: 0.2312 UG/L

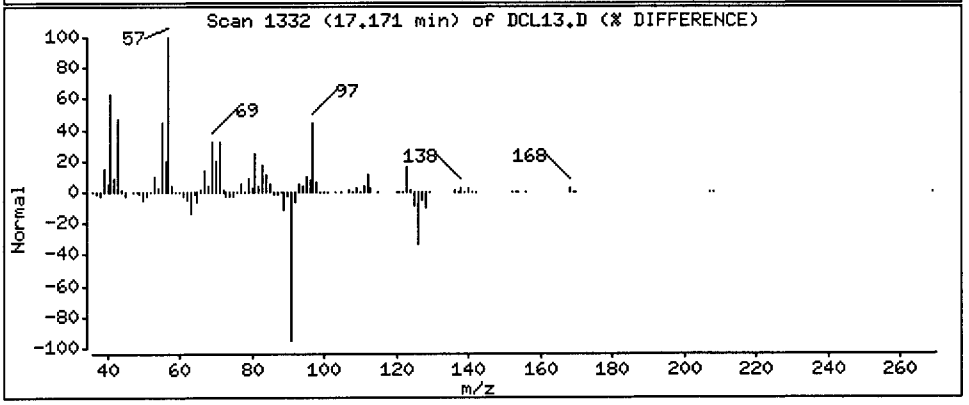












[tert-Butylbenzene; 11 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

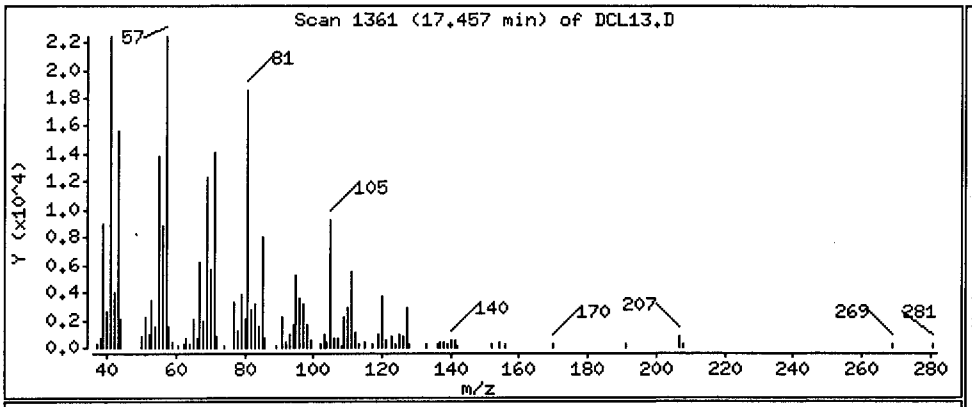
Operator: VOC

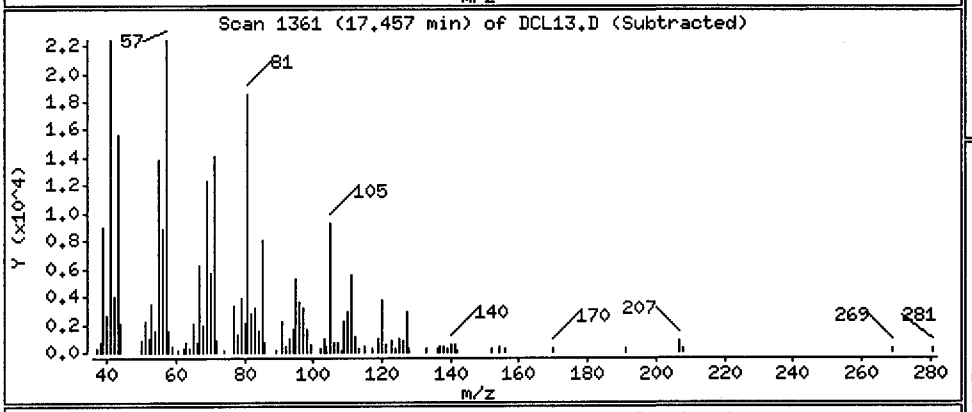
Column phase: RTx Volatiles

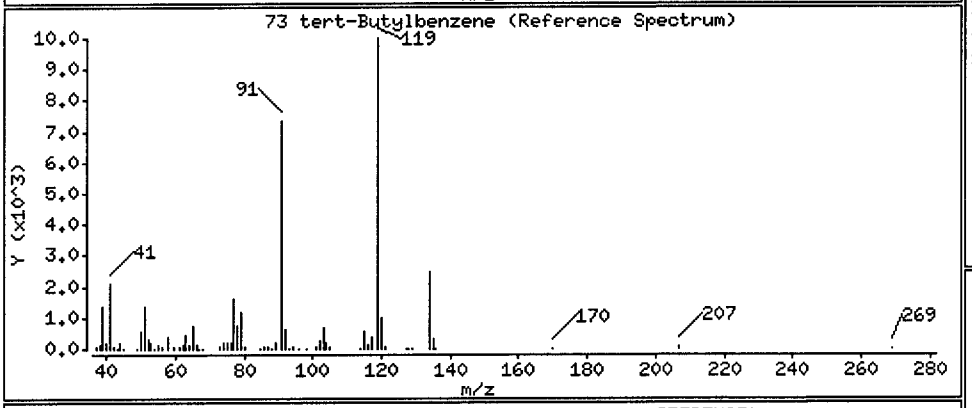
Column diameter: 0.32

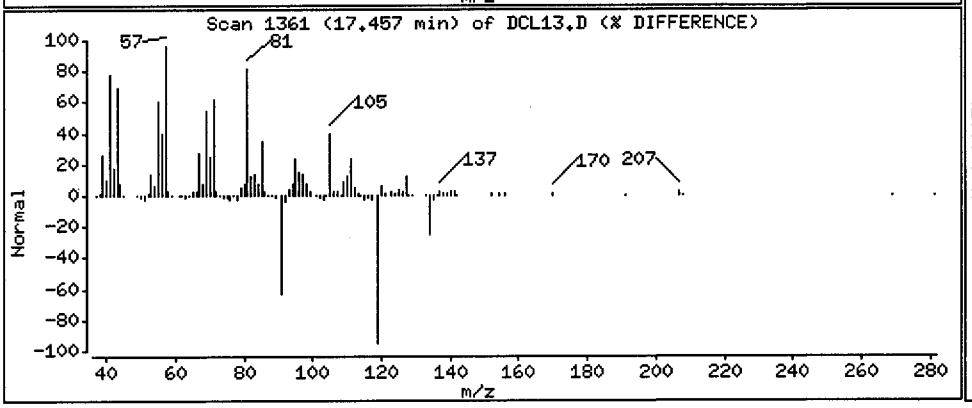
73 tert-Butylbenzene

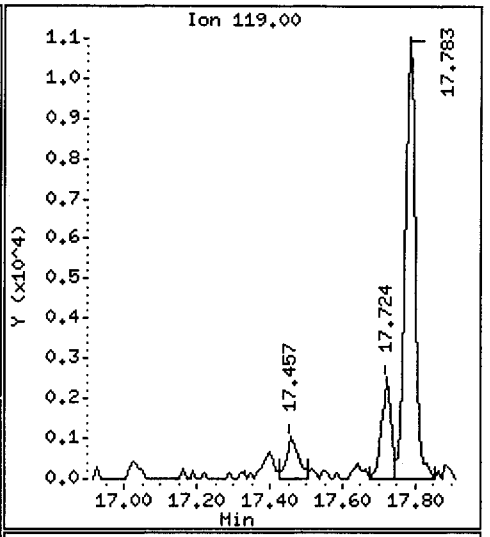
Concentration: 0.1304 UG/L

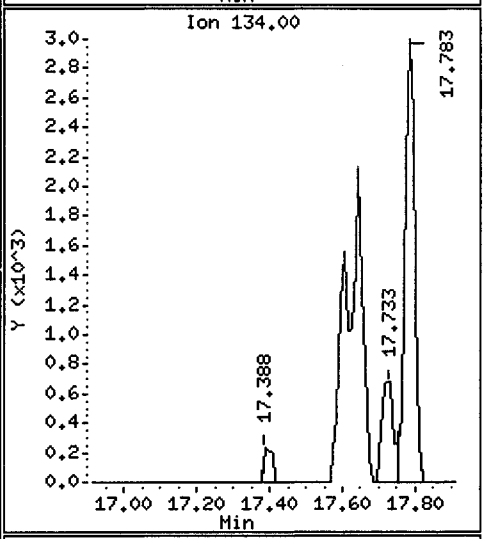


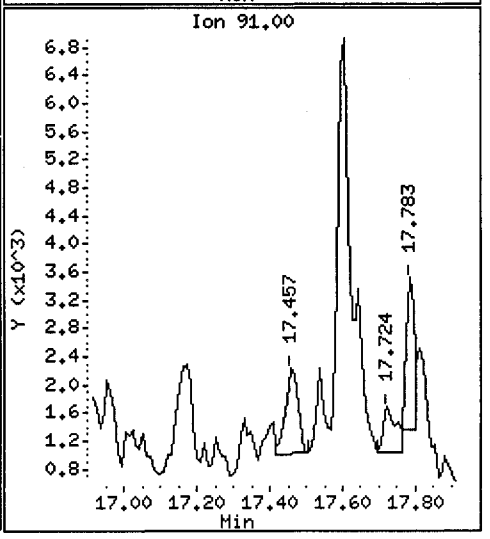












[1,2,4-Trimethylbenzene; 75 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

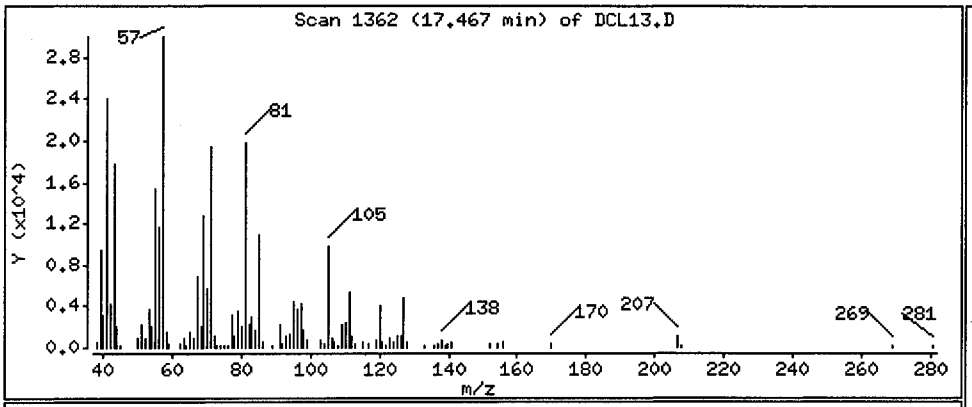
Operator: VOC

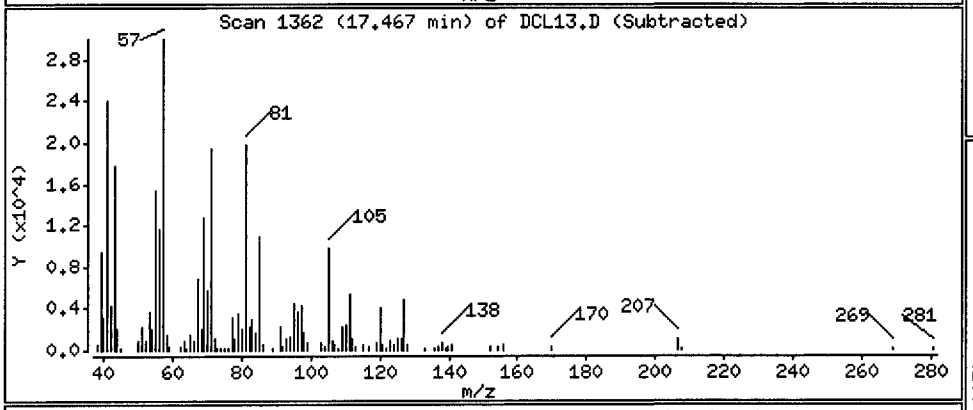
Column phase: RTx Volatiles

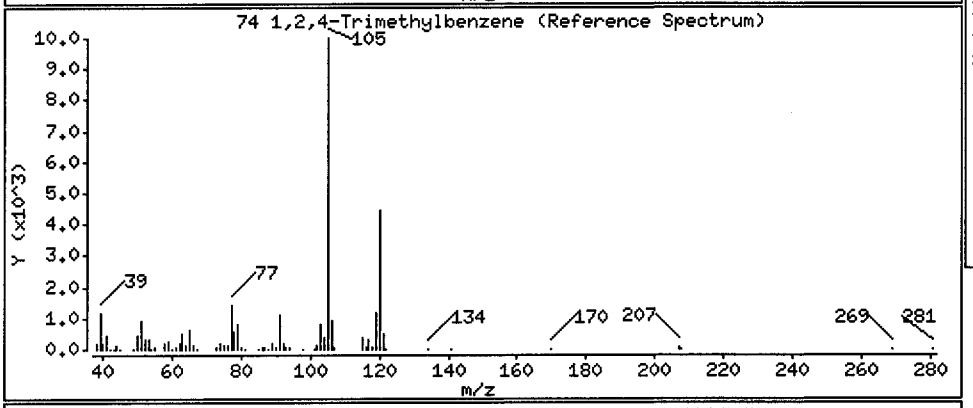
Column diameter: 0.32

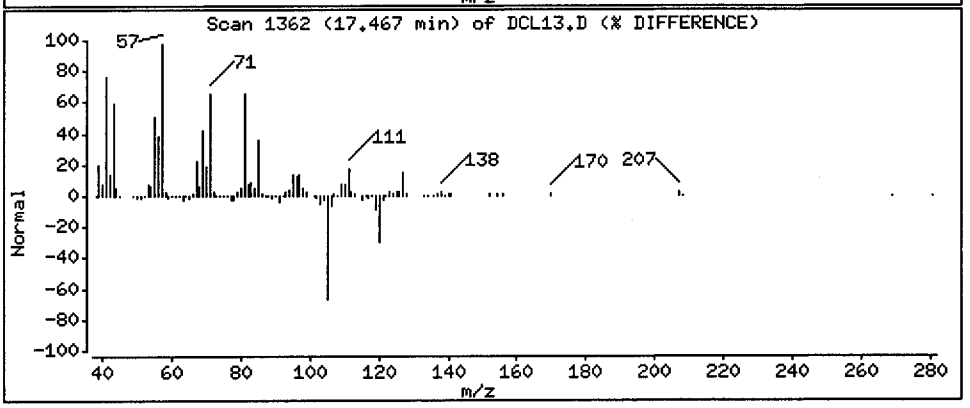
74 1,2,4-Trimethylbenzene

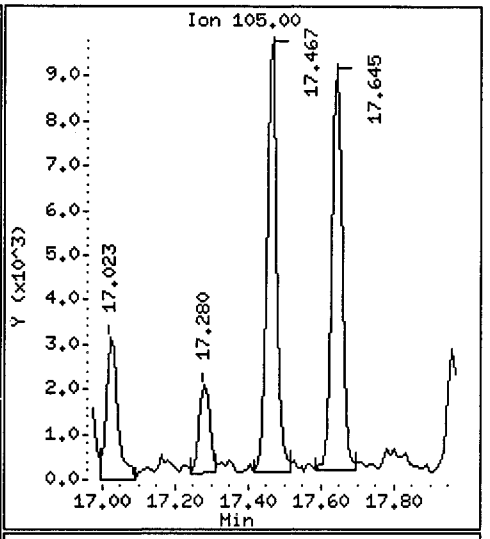
Concentration: 0.9024 UG/L

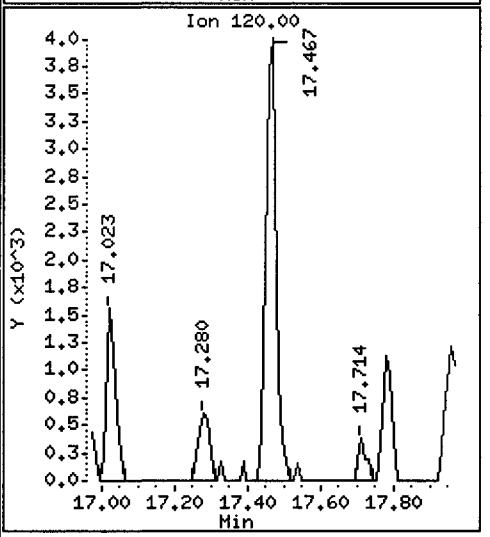












[sec-Butylbenzene; 56 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

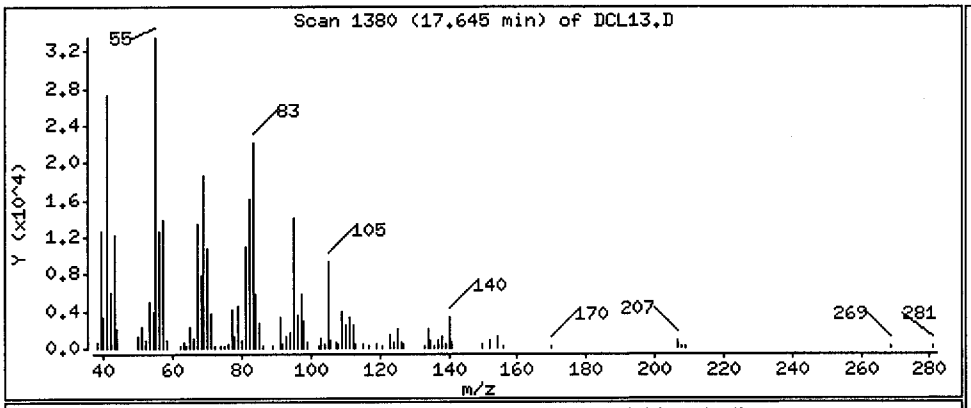
Operator: VOC

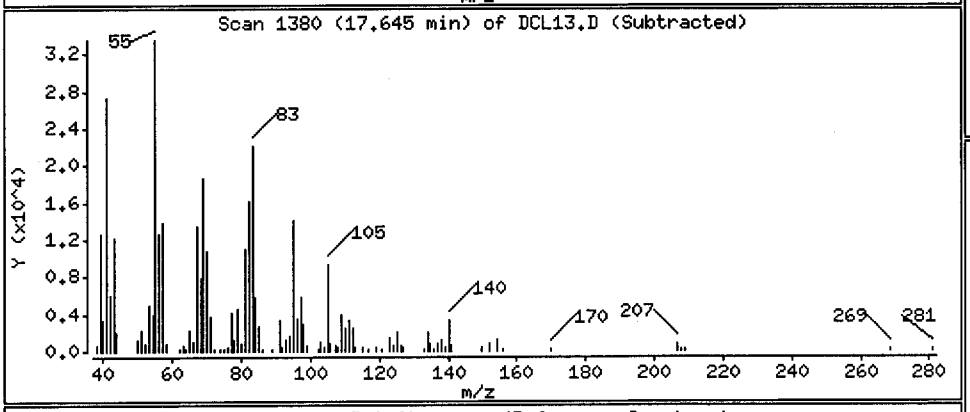
Column phase: RTx Volatiles

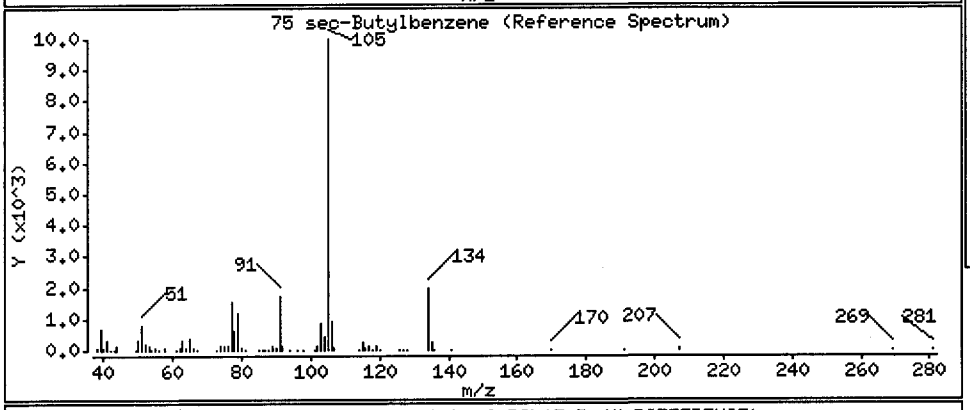
Column diameter: 0.32

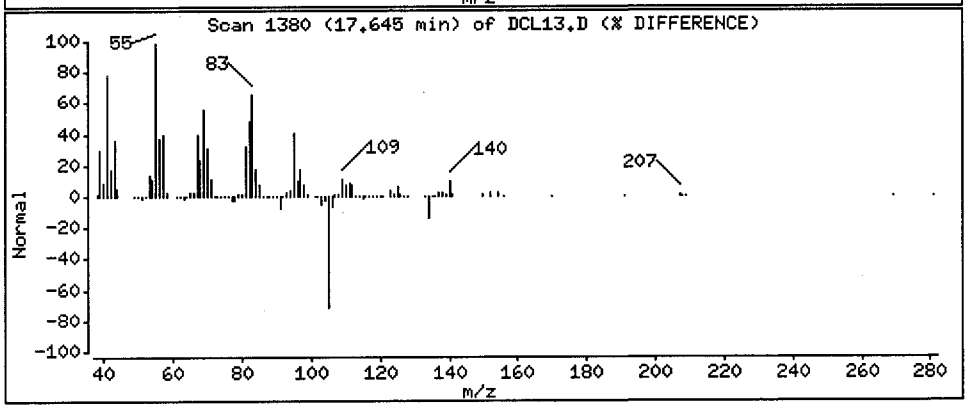
75 sec-Butylbenzene

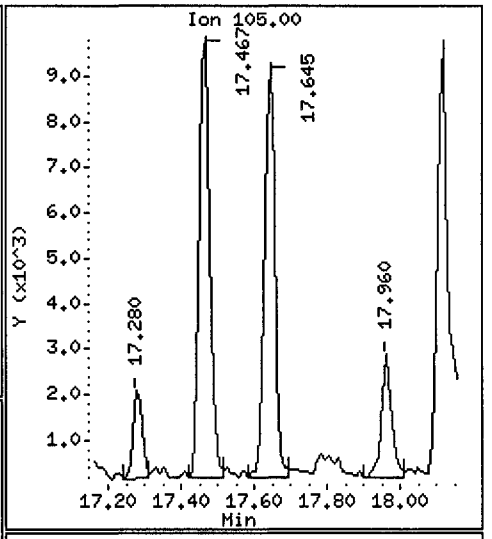
Concentration: 0.6690 UG/L

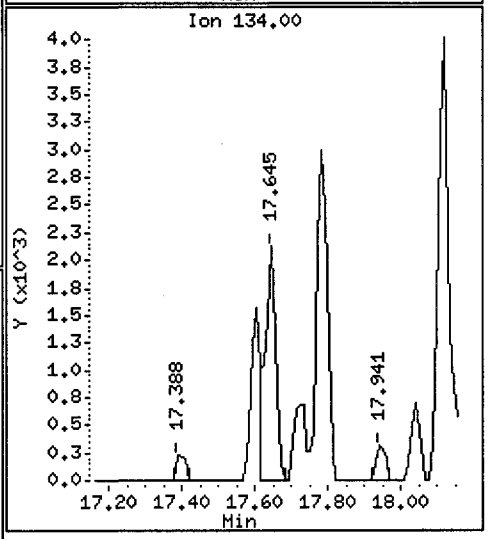












[para-Isopropyl Toluene; 79 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

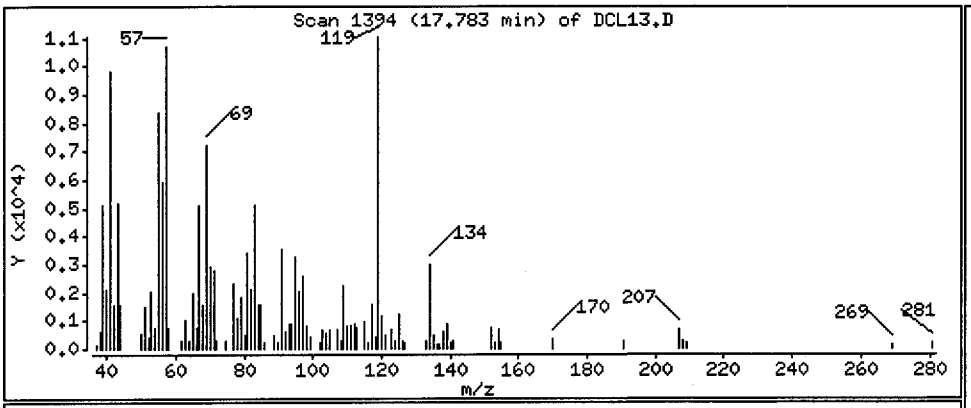
Operator: VOC

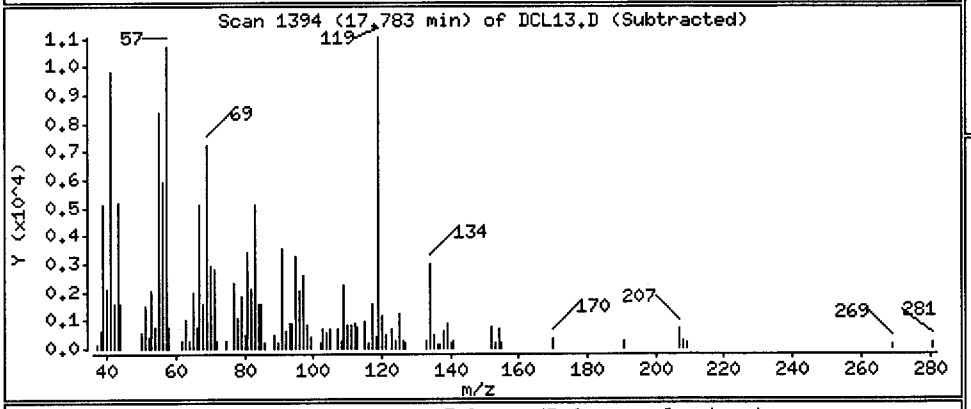
Column phase: RTx Volatiles

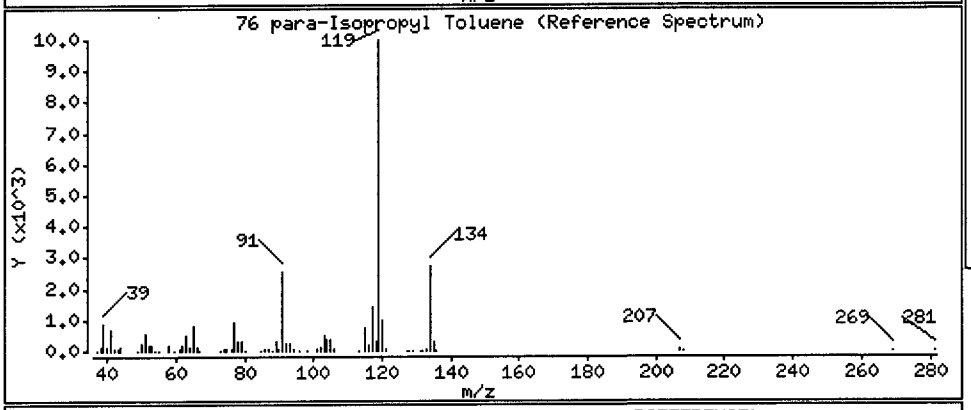
Column diameter: 0.32

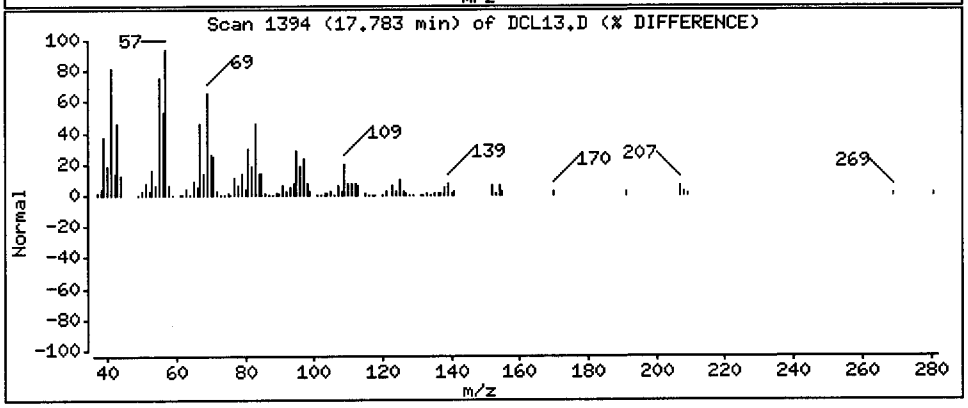
76 para-Isopropyl Toluene

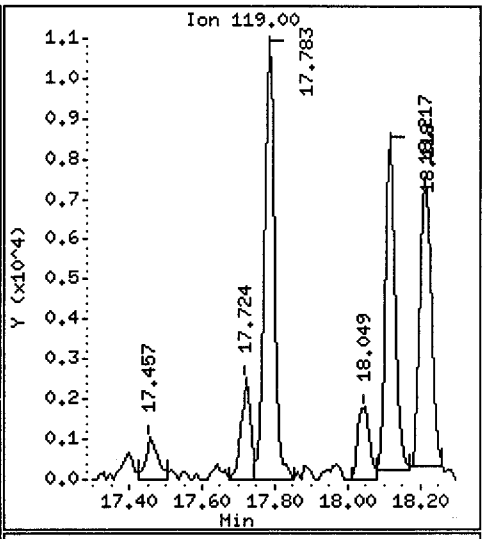
Concentration: 0.9508 UG/L

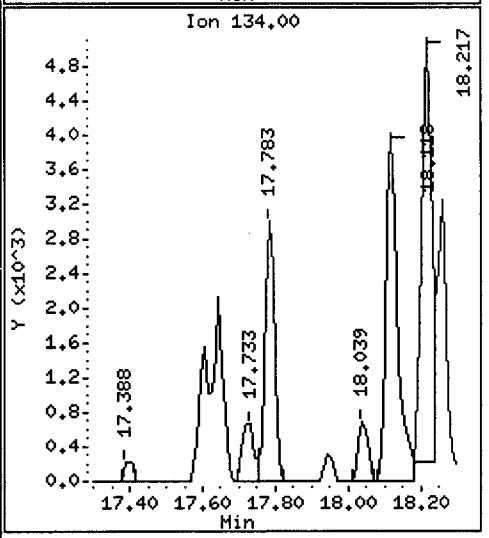












[n-Butylbenzene; 94 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

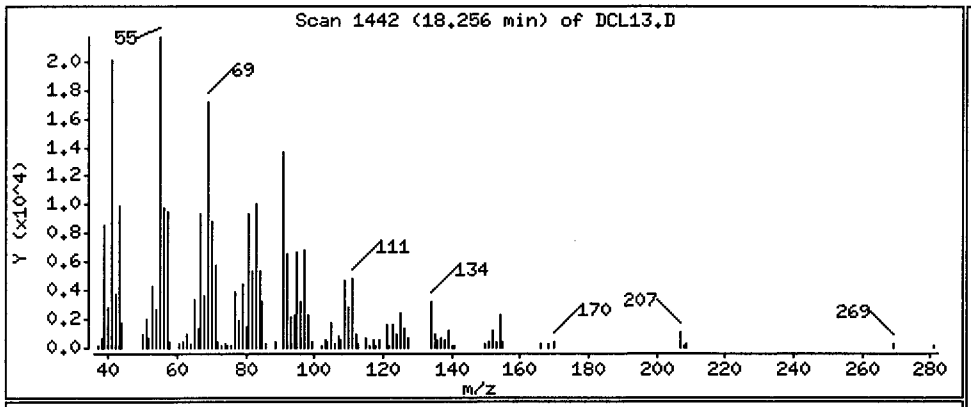
Operator: VOC

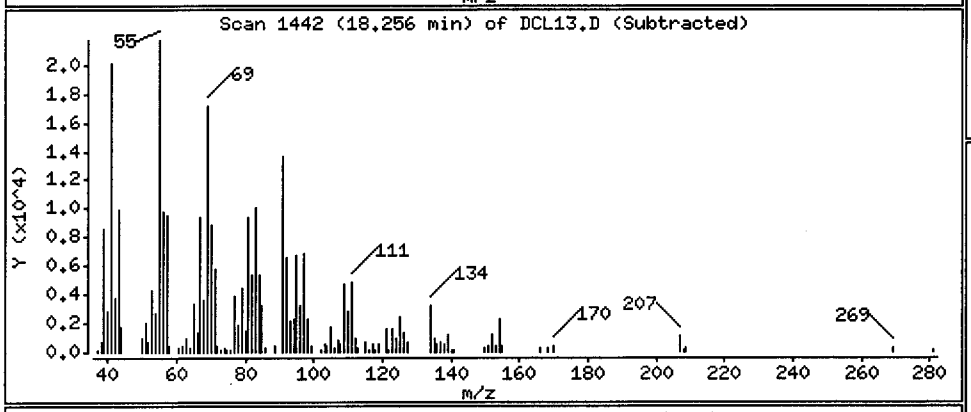
Column phase: RTx Volatiles

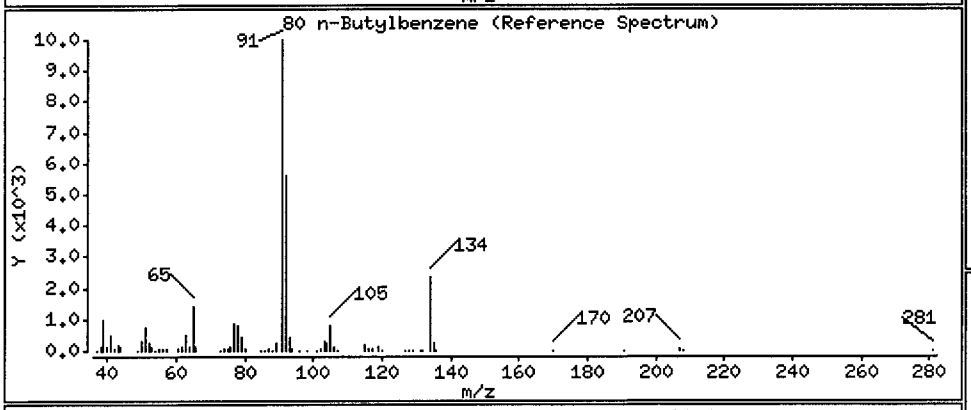
Column diameter: 0.32

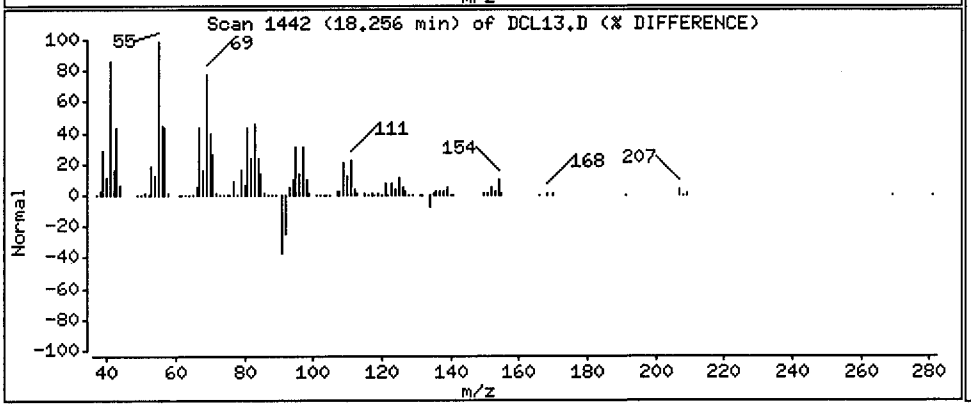
80 n-Butylbenzene

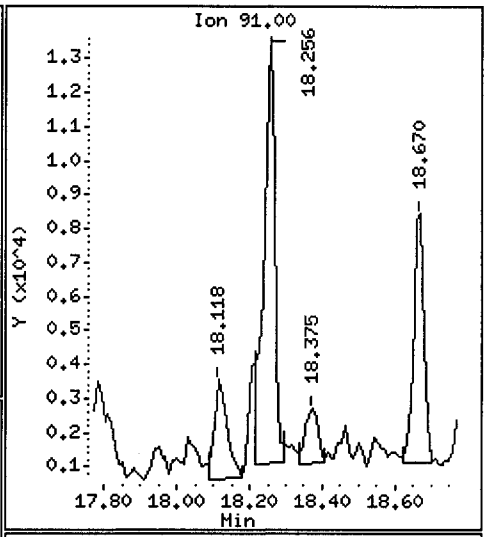
Concentration: 1.1304 UG/L

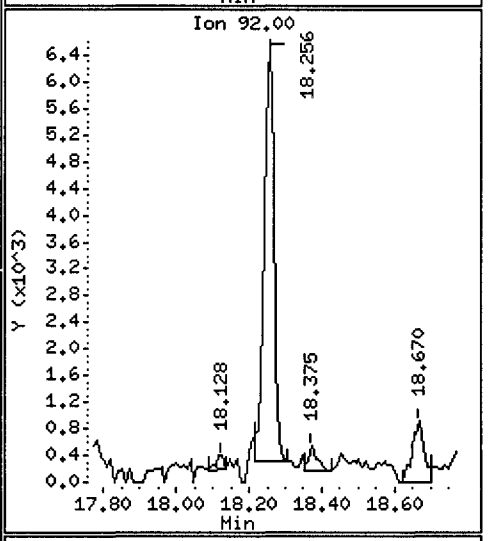


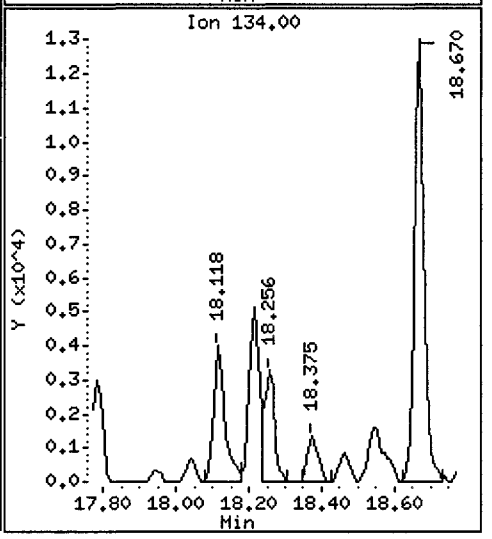












[Naphthalene; 150 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL13.D

Date : 21-MAR-2008 14:27

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

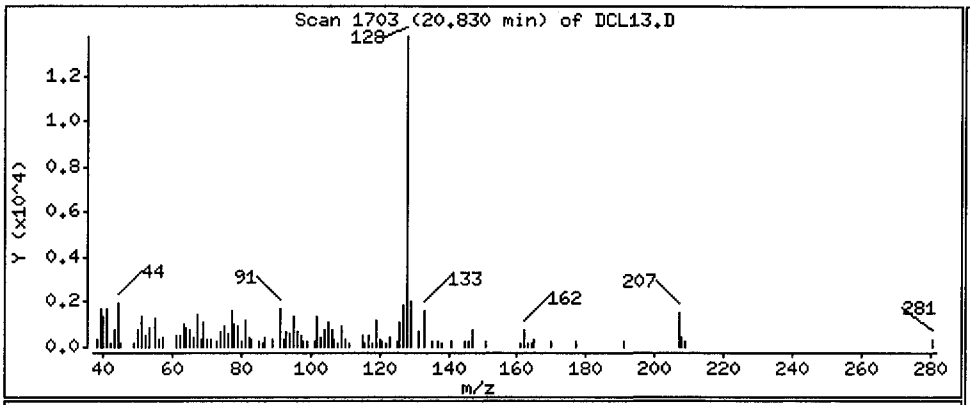
Operator: VOC

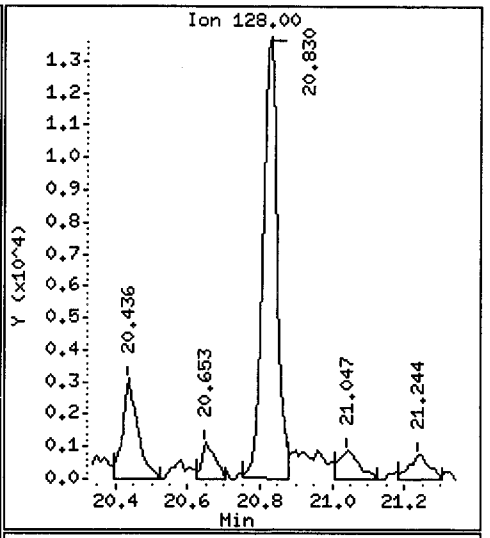
Column phase: RTx Volatiles

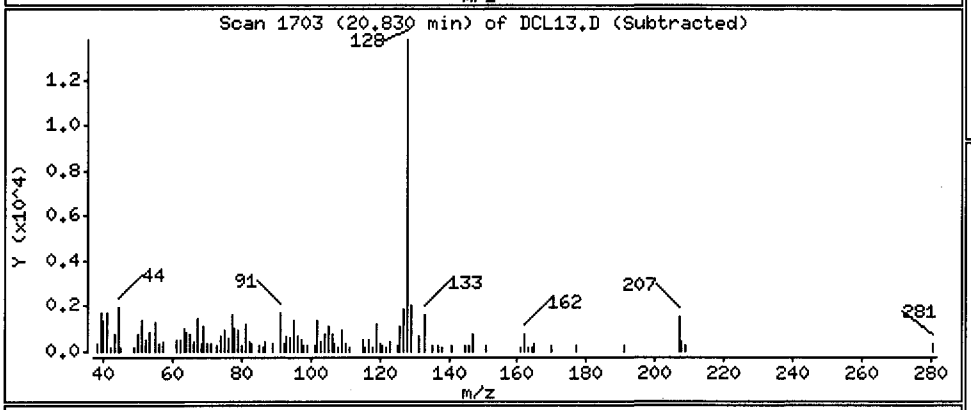
Column diameter: 0.32

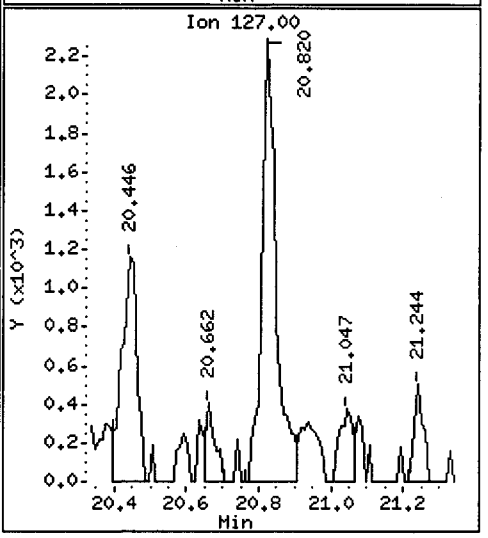
85 Naphthalene

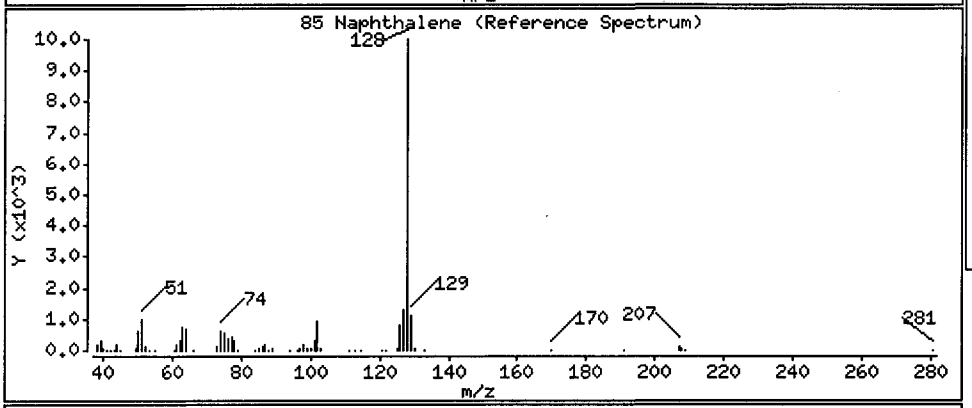
Concentration: 1.7666 UG/L

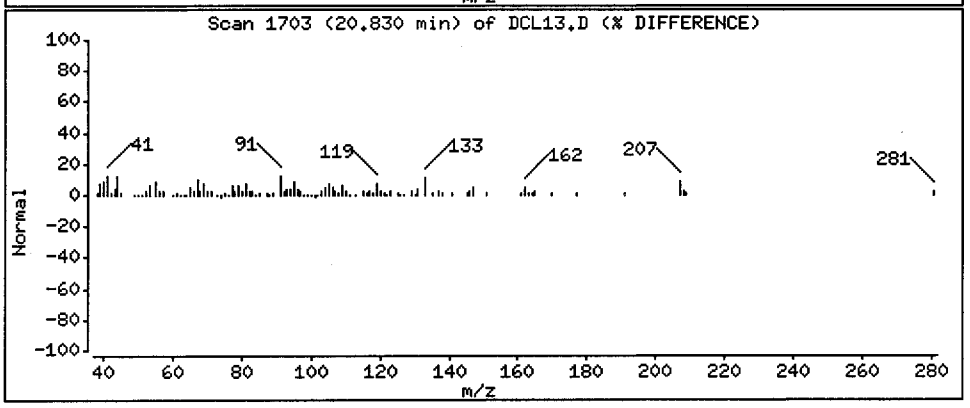












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst	: MSVOA05	Lab ID	: 202043-004	Client ID	: 1065EX310[7.0]
Seqnum	: 448115696016	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: eck16	Batch	: 136185	Time	: 20-MAR-2008 16:30
Cal	: 448110396001	Caldate	: 16-MAR-2008	Caltype	: SOIL
IDF	: 0.8333			Units	: ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	1.6 J		8.3		?curve+ u v- x
Chloromethane	ND		8.3		u
Vinyl Chloride	ND		8.3		u
Bromomethane	ND		8.3		c+ u
Chloroethane	ND		8.3		u
Trichlorofluoromethane	ND		4.2		u v-
Acetone	**96 >LR**		17		>LR CO? **b***
Freon 113	ND		4.2		c- u
1,1-Dichloroethene	ND		4.2		u
Methylene Chloride	0.89 J		17	0.65	m u
Carbon Disulfide	ND		4.2		u
MTBE	ND		4.2		u
trans-1,2-Dichloroethene	ND		4.2		u
Vinyl Acetate	ND		42		u
1,1-Dichloroethane	ND		4.2		u
2-Butanone	13		8.3		u
cis-1,2-Dichloroethene	ND		4.2		u
2,2-Dichloropropane	ND		4.2		u
Chloroform	0.28 J		4.2		l u x
Bromochloromethane	ND		4.2		u
1,1,1-Trichloroethane	ND		4.2		u
1,1-Dichloropropene	4.2	-0.301	4.2		u x
Carbon Tetrachloride	5.1	-0.282	4.2		u x
1,2-Dichloroethane	ND		4.2		u
Benzene	0.27 J		4.2		l u x
Trichloroethene	0.58 J	-0.074	4.2		u x
1,2-Dichloropropane	0.53 J	-0.212	4.2		u x
Bromodichloromethane	1.1 J		4.2		l u x
Dibromomethane	0.28 J	0.113	4.2		u x
4-Methyl-2-Pentanone	2.5 J		8.3		l u x
cis-1,3-Dichloropropene	ND		4.2		u
Toluene	0.32 J		4.2		u
trans-1,3-Dichloropropene	ND		4.2		u
1,1,2-Trichloroethane	1.3 J		4.2		l u x
2-Hexanone	ND		8.3		u
1,3-Dichloropropane	ND		4.2		u
Tetrachloroethene	ND		4.2		u
Dibromochloromethane	ND		4.2		u
1,2-Dibromoethane	ND		4.2		u
Chlorobenzene	ND		4.2		u
1,1,1,2-Tetrachloroethane	ND		4.2		u
Ethylbenzene	ND		4.2		u
m,p-Xylenes	1.2 J		4.2		u
o-Xylene	ND		4.2		u
Styrene	ND		4.2		u
Bromoform	ND		4.2		u
Isopropylbenzene	3.2 J		4.2		u
1,1,2,2-Tetrachloroethane	ND		4.2		u
1,2,3-Trichloropropane	ND		4.2		u

448115696016

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	4.7		4.2		u
Bromobenzene	ND		4.2		u
1,3,5-Trimethylbenzene	ND		4.2		u
2-Chlorotoluene	ND		4.2		u
4-Chlorotoluene	ND		4.2		u
tert-Butylbenzene	ND		4.2		u
1,2,4-Trimethylbenzene	ND		4.2		u
sec-Butylbenzene	1.2 J		4.2		u
para-Isopropyl Toluene	0.57 J		4.2		u
1,3-Dichlorobenzene	ND		4.2		u
1,4-Dichlorobenzene	ND		4.2		u
n-Butylbenzene	2.9 J		4.2		CO?
1,2-Dichlorobenzene	ND		4.2		u
1,2-Dibromo-3-Chloropropane	ND		4.2		u
1,2,4-Trichlorobenzene	ND		4.2		u
Hexachlorobutadiene	ND		4.2		u
Naphthalene	0.99 J		4.2	1.6	?curve+ l u x
1,2,3-Trichlorobenzene	0.36 J		4.2	0.58	?curve+ u x

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	41.67	36.11	87	78-126	u
1,2-Dichloroethane-d4	41.67	34.48	83	76-137	u
Toluene-d8	41.67	39.70	95	80-120	u
Bromofluorobenzene	41.67	47.40	114	80-121	u

ISTD (ICAL ecg11)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	751961	974732	29.63	9.80	9.80	0.00
1,4-Difluorobenzene	1093331	1380859	26.30	10.90	10.91	0.01
Chlorobenzene-d5	980726	1073147	9.42	15.00	15.01	0.01
1,4-Dichlorobenzene-d4	574120	558306	-2.75	17.72	17.73	0.01

BO 03/21/08 : RR 25x, Acetone >LR, n-butbzn co check

BO 03/21/08 [Chloroform]: Spectrum does not confirm.

BO 03/21/08 [Benzene]: Spectrum does not confirm.

BO 03/21/08 [Bromodichloromethane]: Spectrum does not confirm.

BO 03/21/08 [4-Methyl-2-Pentanone]: Spectrum does not confirm.

BO 03/21/08 [1,1,2-Trichloroethane]: Spectrum does not confirm.

BO 03/21/08 [Naphthalene]: Spectrum does not confirm.

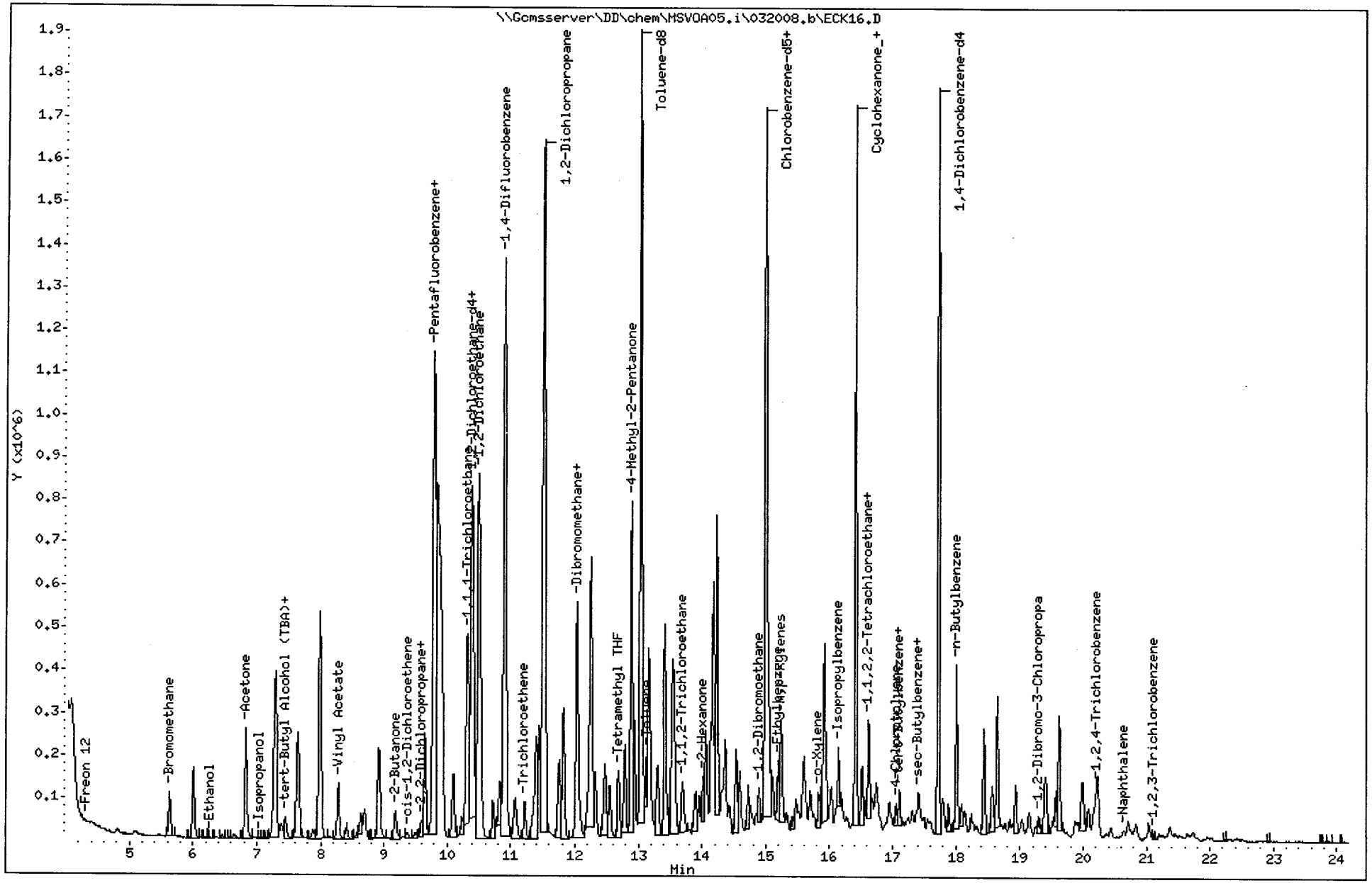
Analyst: BO Date: 03/21/08 Reviewer: MJD Date: 03/21/08

+=high bias -=low bias >LR=overrange ?curve=check curve CO?=check for carryover b=noncompliant c=CCV l=false positive flag altered m=manual integration u=use v=ICV x=false positive

448115696016

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D
Date : 20-MAR-2008 16:30
Client ID: DYNA P&T
Sample Info: S,202043-004
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i
Operator: VOC
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D
Report Date: 21-Mar-2008 11:58

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 20-MAR-2008 16:30 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : S,202043-004
Misc Info : 136185,6/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	1 Freon 12	85	4.326	4.339	(0.442)	416	1.92469	1.9246
	4 Bromomethane	94	5.499	5.483	(0.561)	1059	0.97580	0.9758
	7 Ethanol	45	6.248	6.231	(0.638)	573	3.74957	3.7495(A)
	10 Acetone	43	6.829	6.852	(0.697)	463508	115.294	115.2940
	11 Isopropanol	45	6.938	6.941	(0.708)	991	1.07363	1.0736(A)
	13 Methylene Chloride	84	7.450	7.463	(0.761)	12733	1.06726	1.0672(M)
	14 tert-Butyl Alcohol (TBA)	59	7.460	7.483	(0.762)	3579	2.65289	2.6528(A)
	18 Vinyl Acetate	43	8.278	8.359	(0.845)	3925	0.11595	0.1159(a)
	21 2,2-Dichloropropane	77	9.598	9.188	(0.980)	2033	0.11952	0.1195(a)
	22 2-Butanone	43	9.185	9.198	(0.938)	117812	15.0345	15.0344
	23 cis-1,2-Dichloroethene	96	9.372	9.218	(0.957)	1314	0.10994	0.1099(a)
	25 Tetrahydrofuran	42	9.569	9.572	(0.977)	688	0.15704	0.1570(aA)
	26 Chloroform	83	9.598	9.612	(0.980)	8099	0.34001	0.3400(a)
*	27 Pentafluorobenzene	168	9.796	9.799	(1.000)	974732	50.0000	
	28 Dibromofluoromethane	113	9.835	9.848	(1.004)	510897	43.3293	43.3292
	29 1,1,1-Trichloroethane	97	10.318	9.878	(1.053)	1940	0.12188	0.1218(a)
	30 Carbon Tetrachloride	117	9.786	10.075	(0.897)	80511	6.16039	6.1603
	31 1,1-Dichloropropene	75	9.786	10.094	(0.897)	81393	5.01594	5.0159
	32 1,2-Dichloroethane-d4	65	10.387	10.400	(0.952)	526234	41.3759	41.3758
	33 Benzene	78	10.397	10.400	(0.953)	14599	0.32464	0.3246(a)
	35 1,2-Dichloroethane	62	10.495	10.508	(0.962)	2232	0.14217	0.1421(a)
*	36 1,4-Difluorobenzene	114	10.909	10.912	(1.000)	1380859	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D
Report Date: 21-Mar-2008 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	37 Trichloroethene	95	11.225	11.307	(1.029)	7455	0.69821	0.6982
	39 1,2-Dichloropropane	63	11.510	11.730	(1.055)	8602	0.63917	0.6391
	40 Dibromomethane	93	12.033	11.928	(1.103)	2696	0.33232	0.3323(a)
	41 Bromodichloromethane	83	12.033	12.086	(1.103)	21706	1.29681	1.2968
	42 Tetramethyl THF	43	12.683	12.657	(1.163)	23980	0.82885	0.8288(A)
	44 4-Methyl-2-Pentanone	43	12.890	12.854	(1.182)	45163	3.00770	3.0077
	45 Toluene-d8	98	13.038	13.041	(1.195)	1443142	47.6446	47.6446
	46 Toluene	92	13.136	13.140	(1.204)	8767	0.38022	0.3802(a)
	48 1,1,2-Trichloroethane	85	13.708	13.751	(1.257)	9259	1.56924	1.5692
	50 2-Hexanone	43	14.004	13.977	(0.933)	2467	0.25834	0.2583(a)
	53 1,2-Dibromoethane	107	14.841	14.481	(1.360)	962	0.10062	0.1006(a)
*	54 Chlorobenzene-d5	117	15.009	15.012	(1.000)	1073147	50.0000	
	55 Chlorobenzene	112	15.039	15.052	(1.002)	2989	0.14317	0.1431(a)
	56 Ethylbenzene	91	15.098	15.101	(1.006)	17858	0.45788	0.4578(a)
	58 m,p-Xylenes	106	15.236	15.239	(1.015)	18753	1.48974	1.4897
	59 o-Xylene	106	15.738	15.742	(1.049)	2368	0.18461	0.1846(a)
	62 Isopropylbenzene	105	16.142	16.146	(0.911)	113204	3.79033	3.7903
	63 Cyclohexanone_	55	16.428	16.402	(0.927)	19435	13.0111	13.0110(A)
	64 Bromofluorobenzene	95	16.418	16.421	(0.926)	609413	56.8778	56.8777
	65 1,1,2,2-Tetrachloroethane	83	16.606	16.569	(0.937)	1808	0.15130	0.1512(a)
	66 Propylbenzene	91	16.615	16.619	(0.937)	222892	5.63947	5.6394
	68 1,2,3-Trichloropropane	75	16.615	16.658	(0.937)	2478	0.27168	0.2716(a)
	69 2-Chlorotoluene	91	16.743	16.806	(0.944)	4657	0.17928	0.1792(a)
	70 1,3,5-Trimethylbenzene	105	16.803	16.806	(0.948)	8892	0.38353	0.3835(a)
	71 4-Chlorotoluene	91	16.941	16.924	(0.956)	3092	0.13241	0.1324(a)
	72 tert-Butylbenzene	119	17.177	17.180	(0.969)	2661	0.13417	0.1341(a)
	73 1,2,4-Trimethylbenzene	105	17.246	17.239	(0.973)	4465	0.20461	0.2046(a)
	74 sec-Butylbenzene	105	17.414	17.417	(0.982)	44183	1.40422	1.4042
	75 para-Isopropyl Toluene	119	17.561	17.565	(0.991)	16126	0.68667	0.6866
*	77 1,4-Dichlorobenzene-d4	152	17.729	17.732	(1.000)	558306	50.0000	
	79 n-Butylbenzene	91	18.025	18.028	(1.017)	82713	3.51753	3.5175
	81 1,2-Dibromo-3-Chloropropane	75	19.138	19.162	(1.079)	632	0.32069	0.3206(a)
	82 1,2,4-Trichlorobenzene	180	20.212	20.226	(1.140)	527	0.13266	0.1326(a)
	84 Naphthalene	128	20.636	20.630	(1.164)	3070	1.18252	1.1825
	85 1,2,3-Trichlorobenzene	180	21.011	20.995	(1.185)	225	0.42668	0.4266(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

[Freon 12; 1.6 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

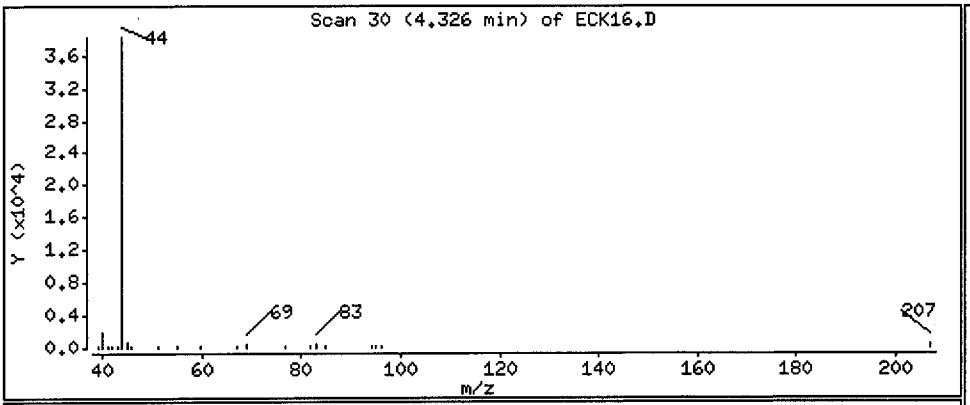
Operator: VOC

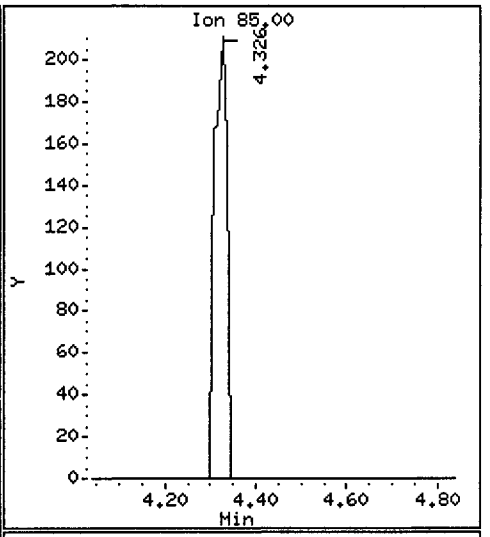
Column phase: RTX 624

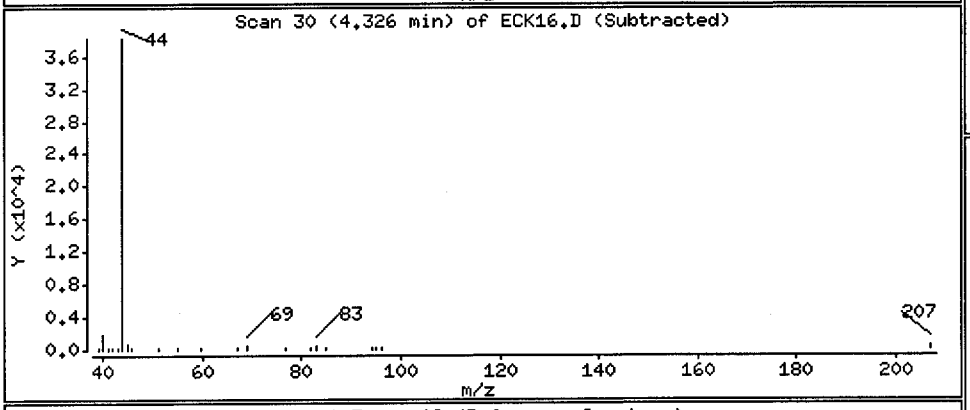
Column diameter: 0.25

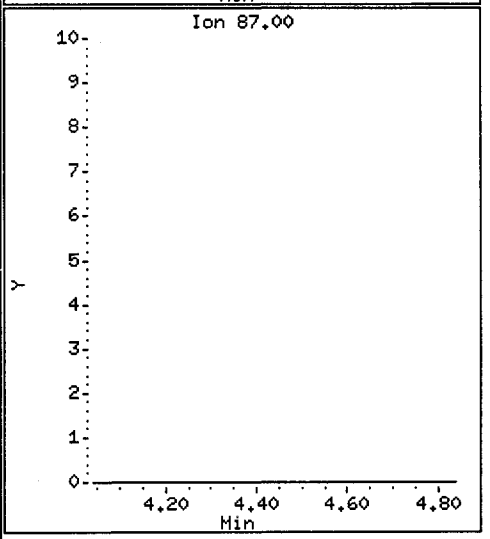
1 Freon 12

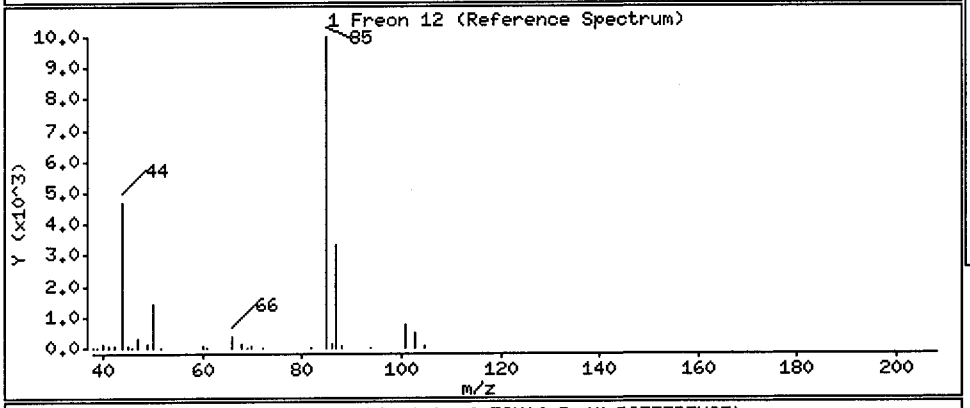
Concentration: 1.9246 UG/L

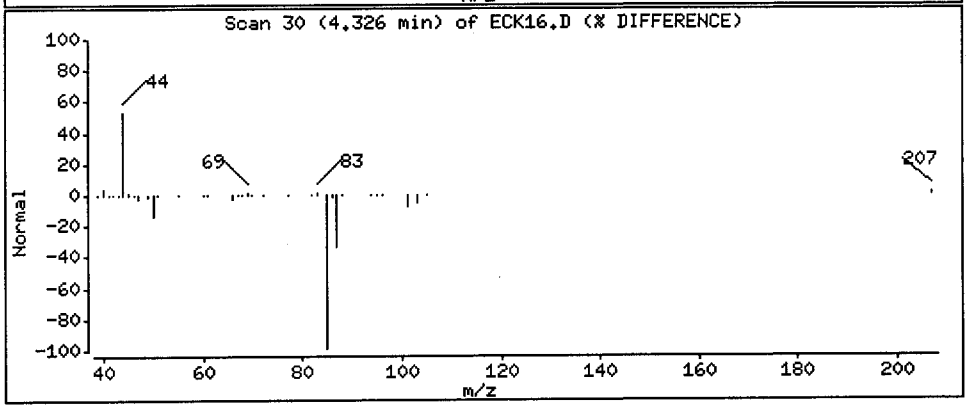












[Acetone; 96 >LR]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

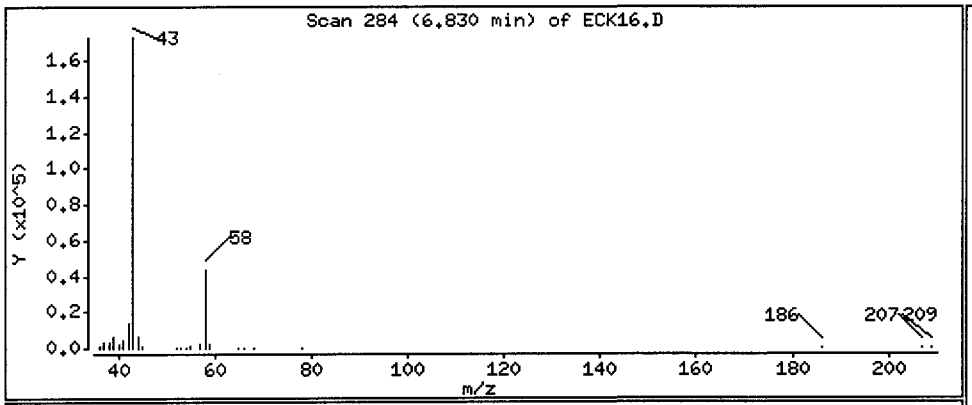
Operator: VOC

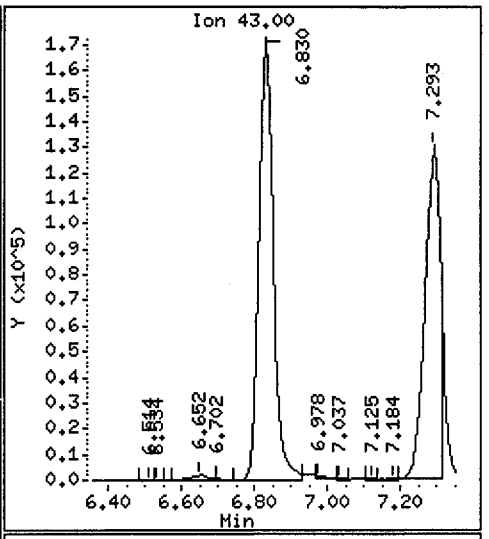
Column phase: RTX 624

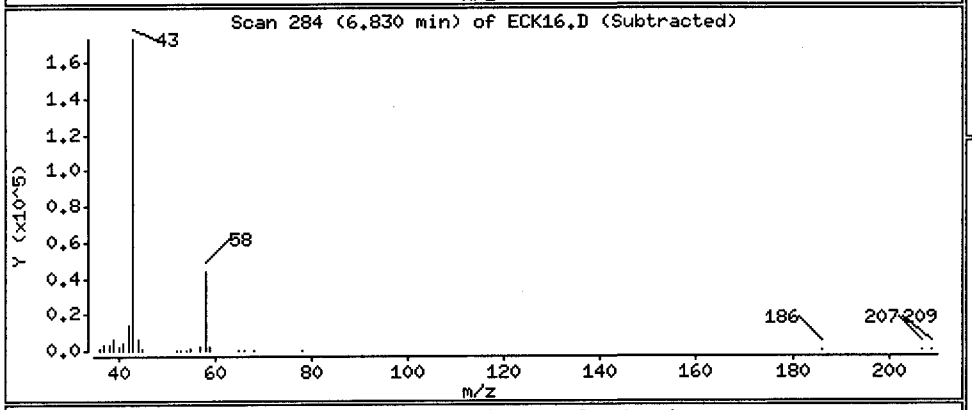
Column diameter: 0.25

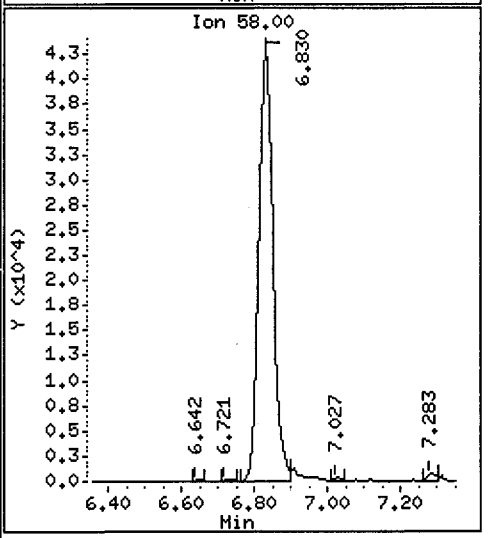
10 Acetone

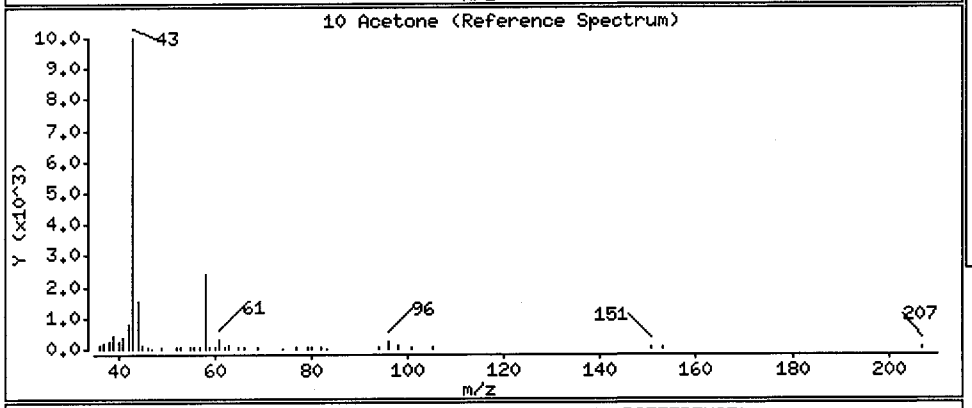
Concentration: 115.2940 UG/L

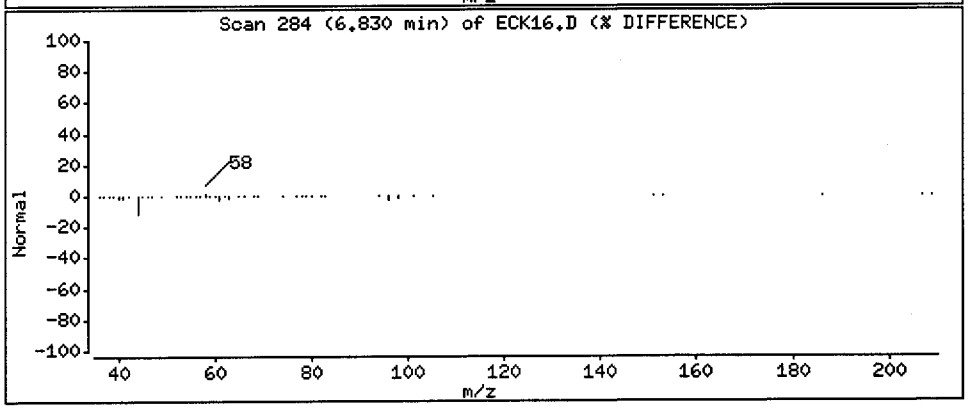












[Methylene Chloride; 0.89 J; MI; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

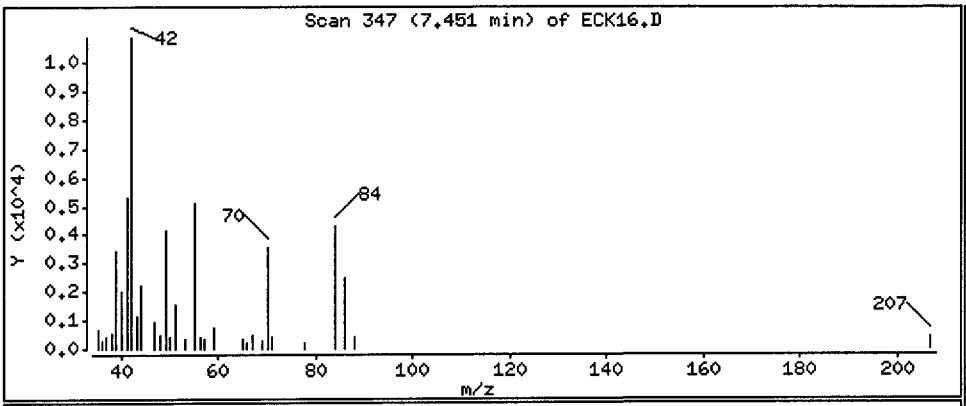
Operator: VOC

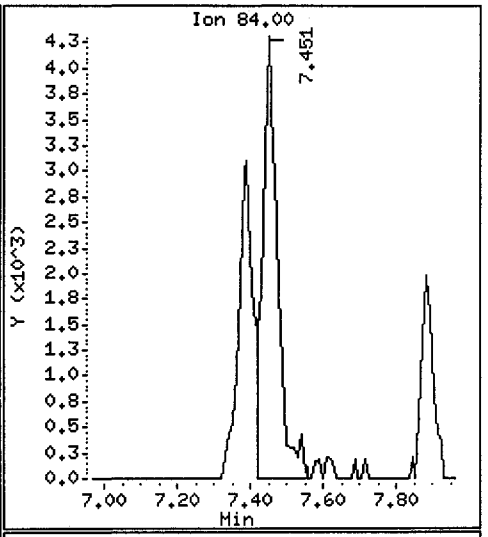
Column phase: RTX 624

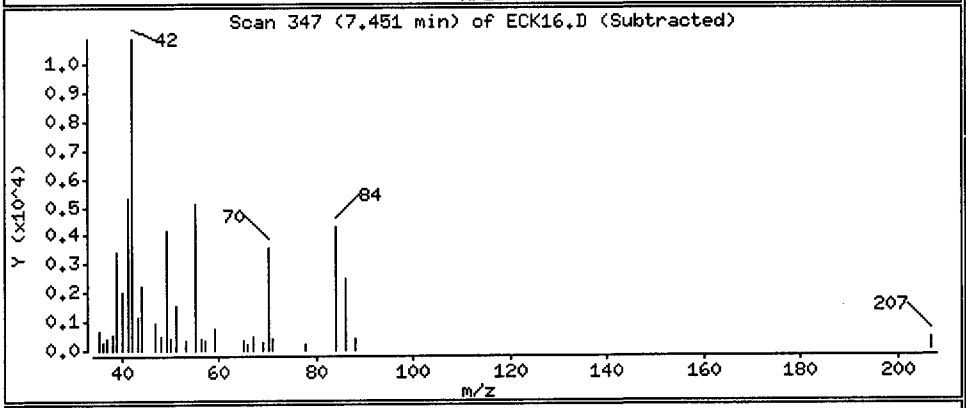
Column diameter: 0.25

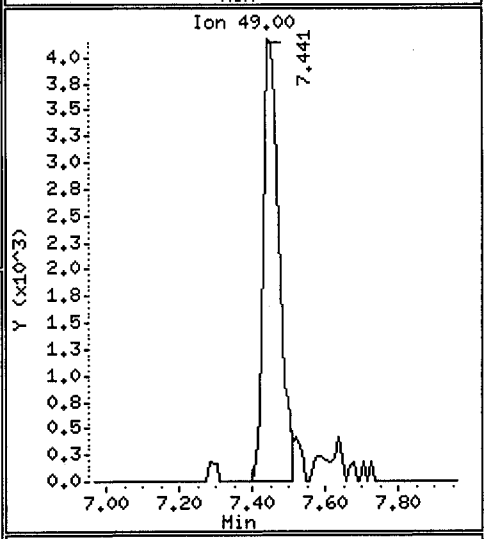
13 Methylene Chloride

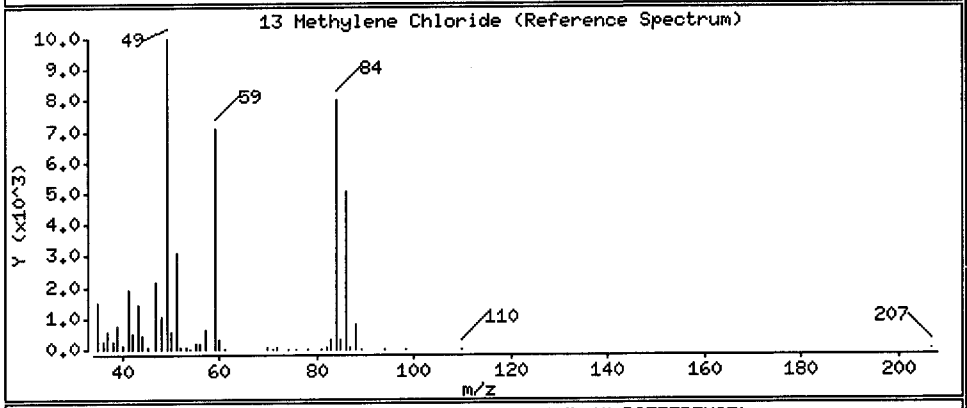
Concentration: 1.0672 UG/L

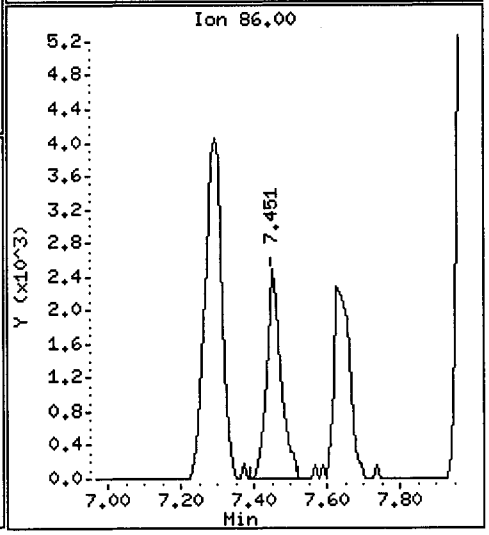


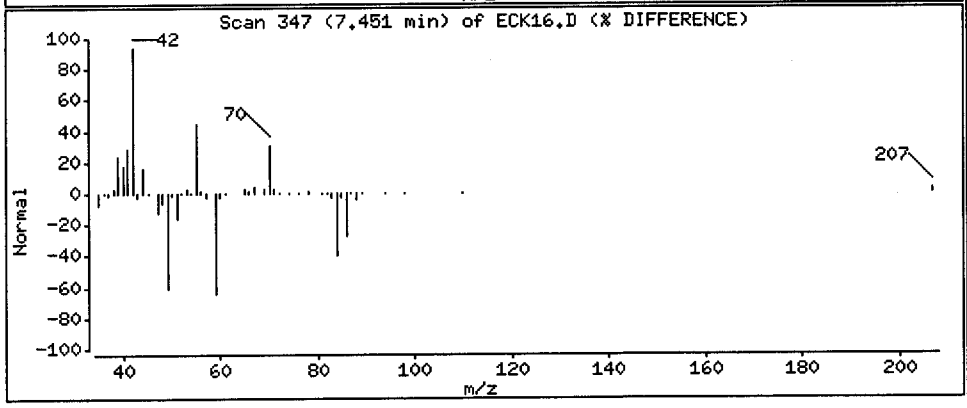












[Methylene Chloride; before version]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

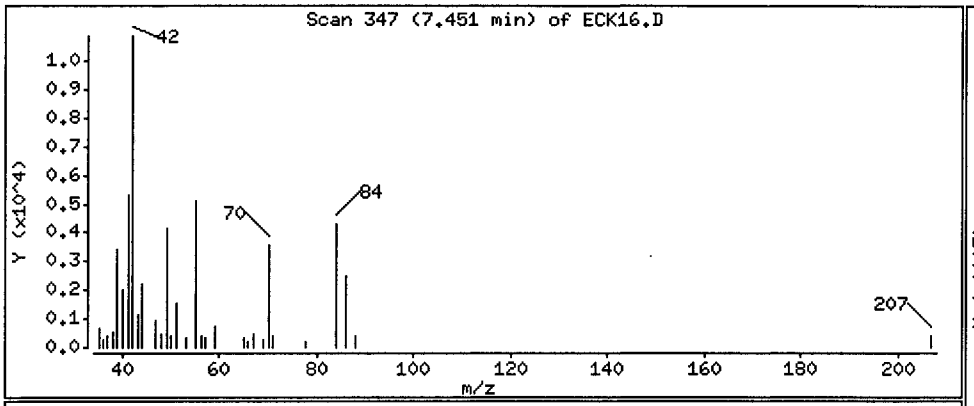
Operator: VOC

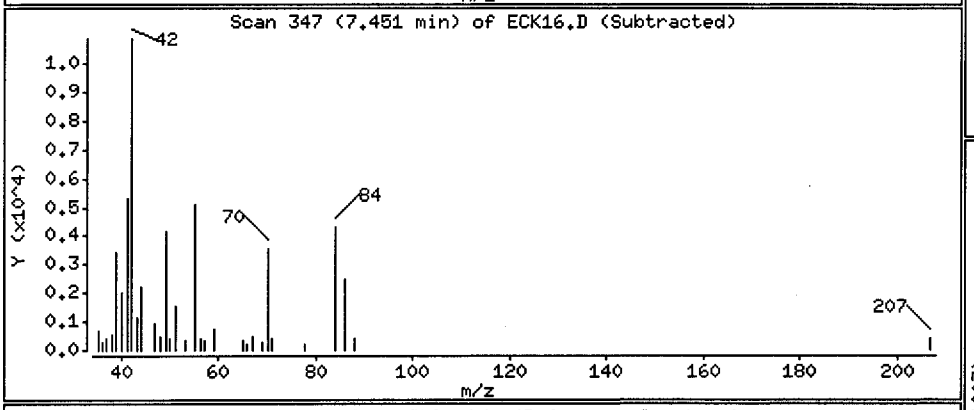
Column phase: RTX 624

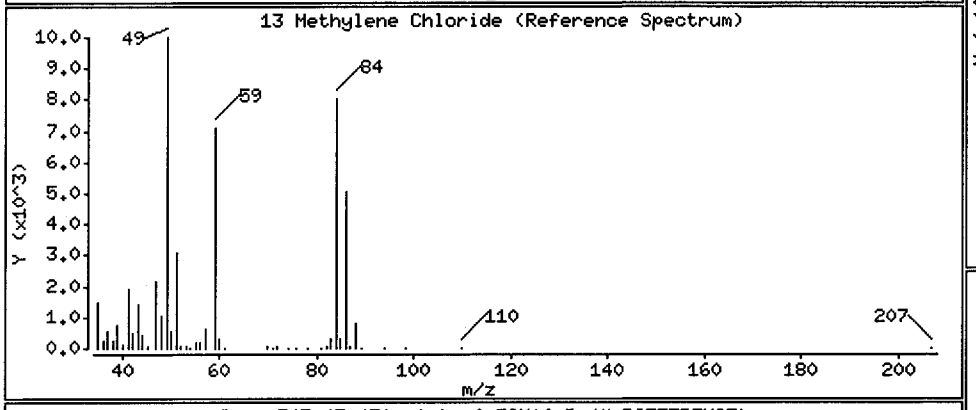
Column diameter: 0.25

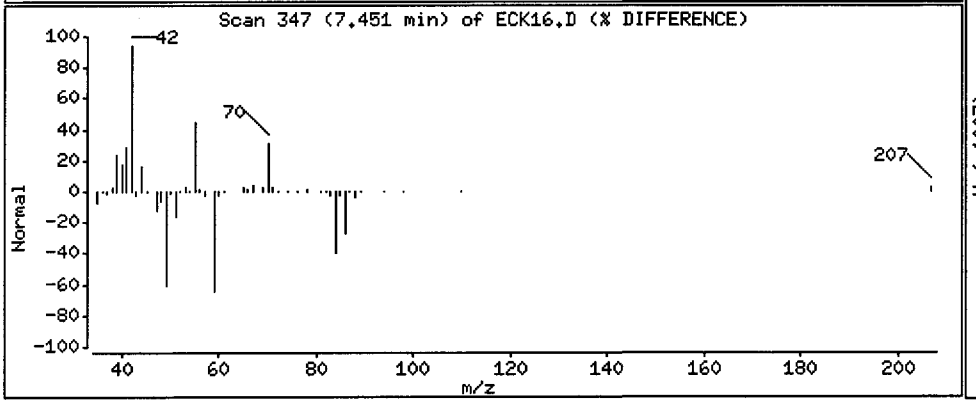
13 Methylene Chloride

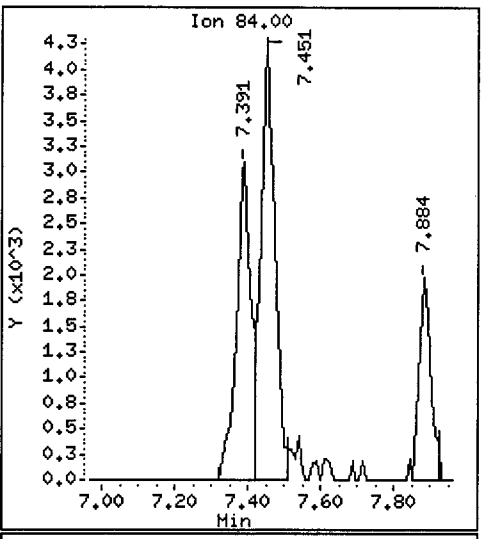
Concentration: 1.0108 UG/L

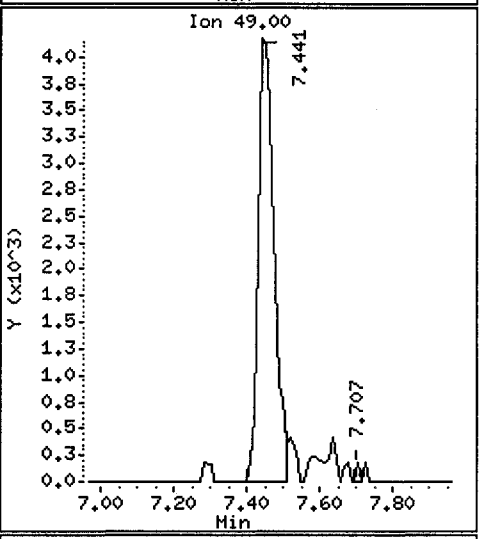


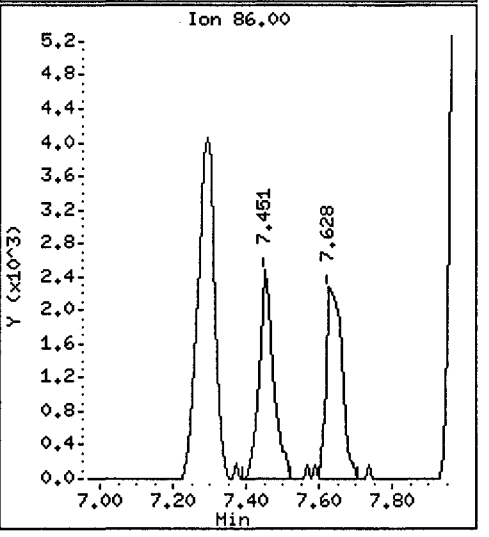












[2-Butanone; 13; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

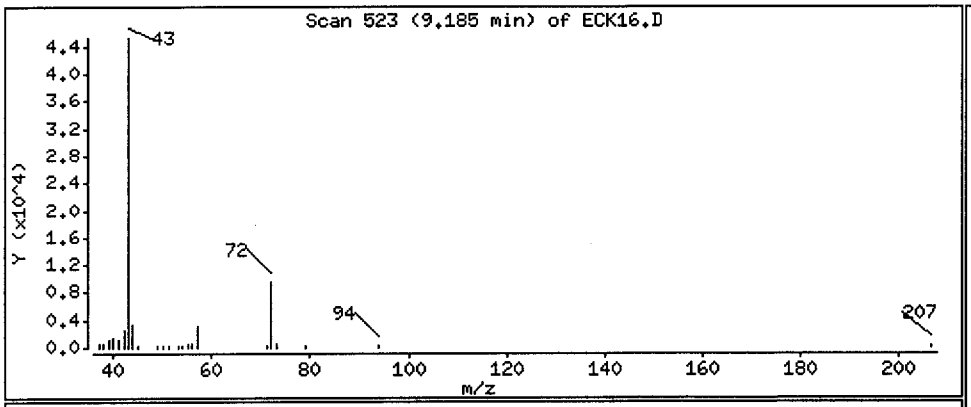
Operator: VOC

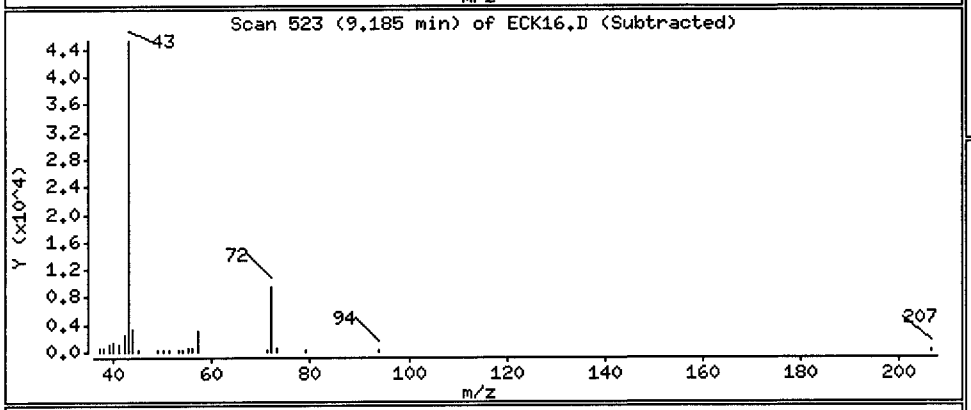
Column phase: RTX 624

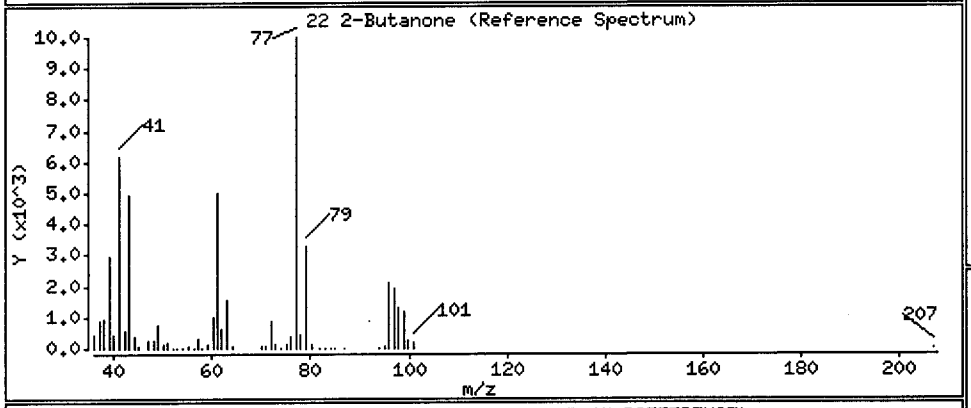
Column diameter: 0.25

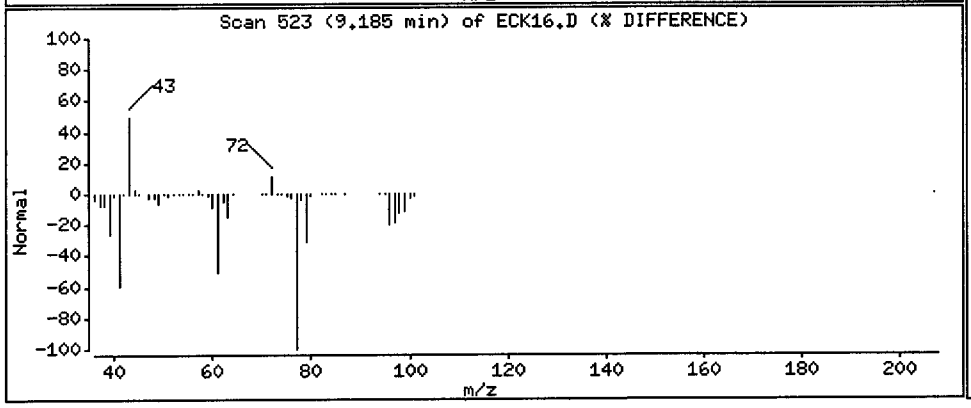
22 2-Butanone

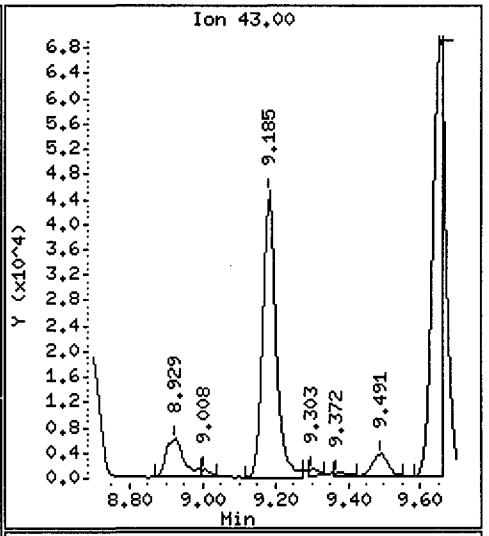
Concentration: 15.0344 UG/L

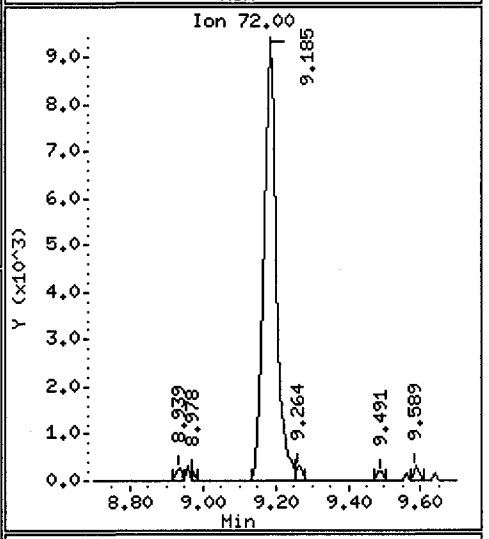


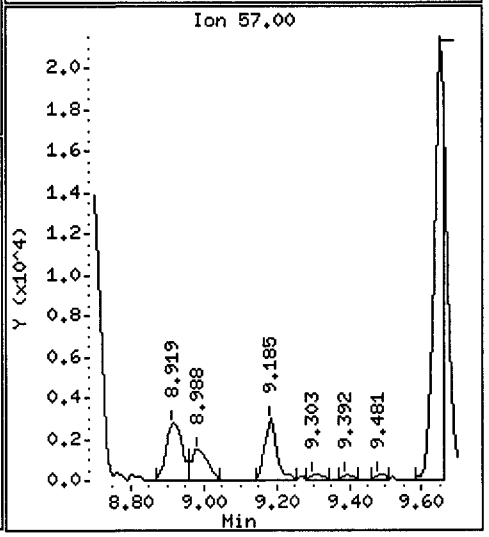












[Chloroform; 0.28 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

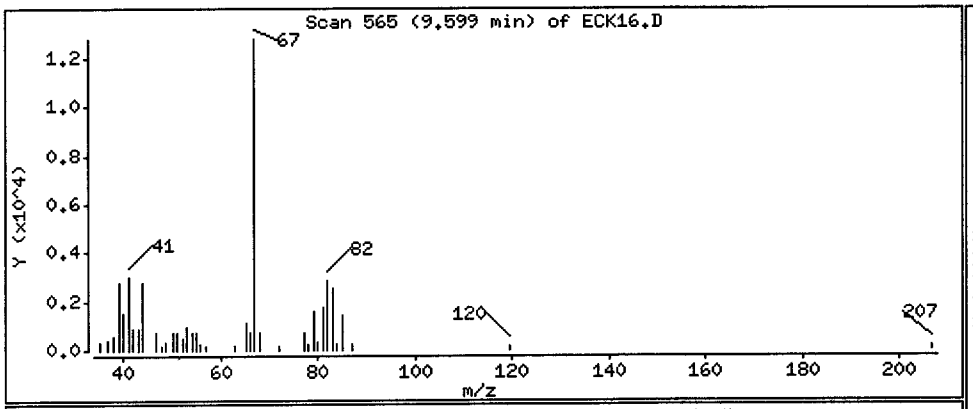
Operator: VOC

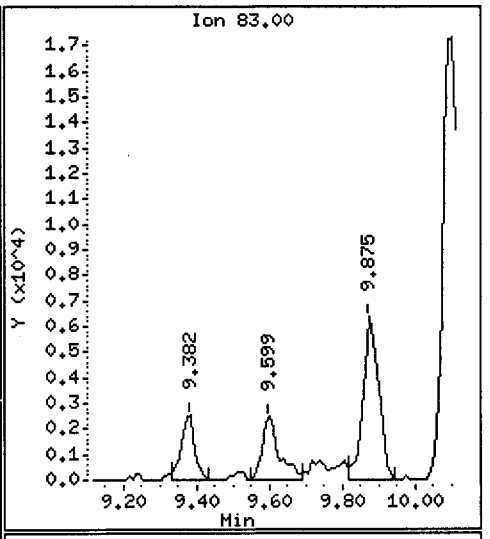
Column phase: RTX 624

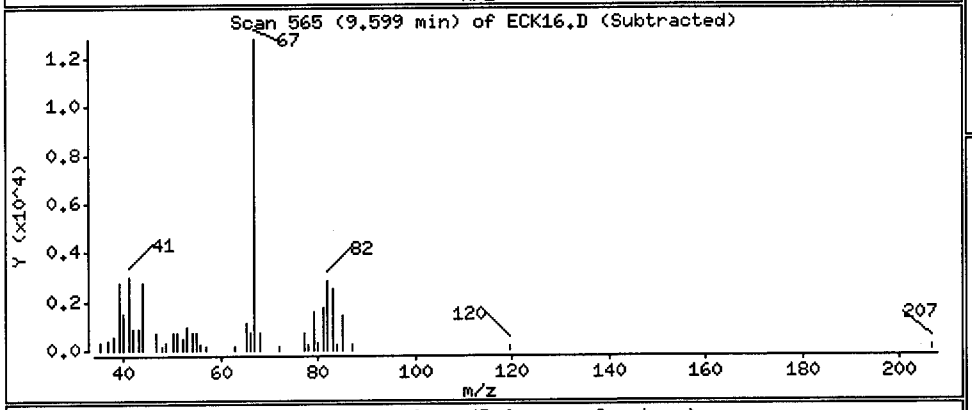
Column diameter: 0.25

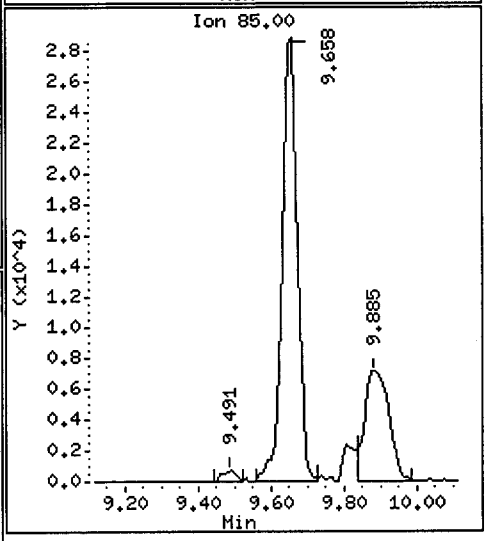
26 Chloroform

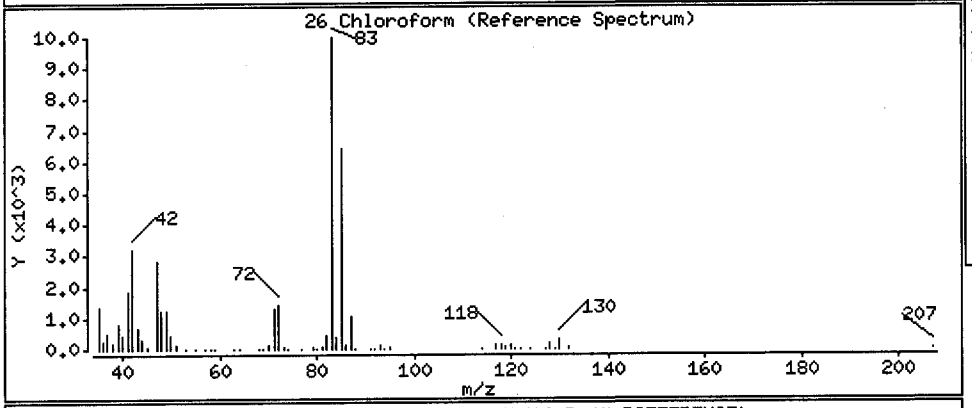
Concentration: 0.3400 UG/L

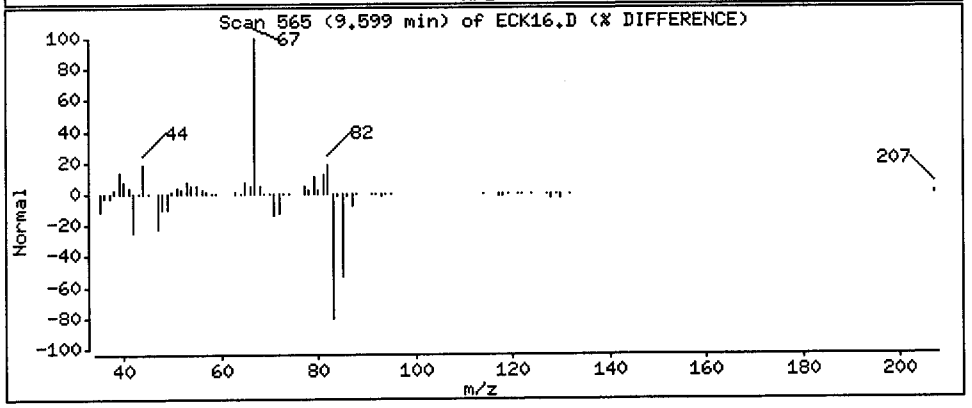












[Carbon Tetrachloride; 5.1; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

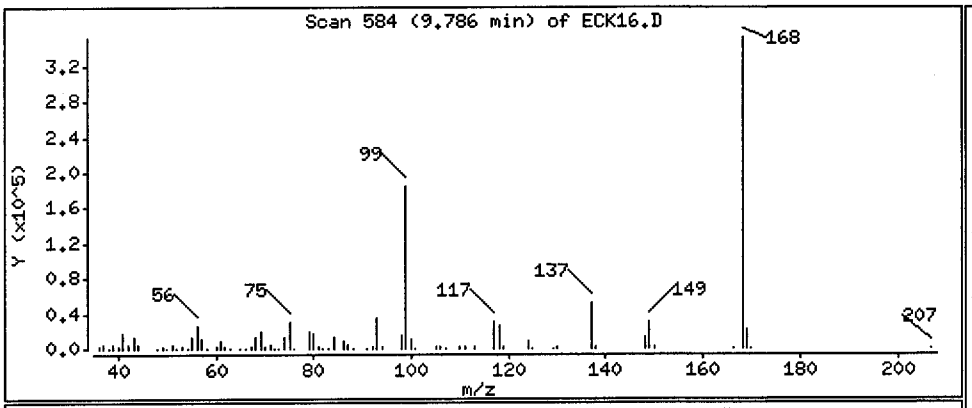
Operator: VOC

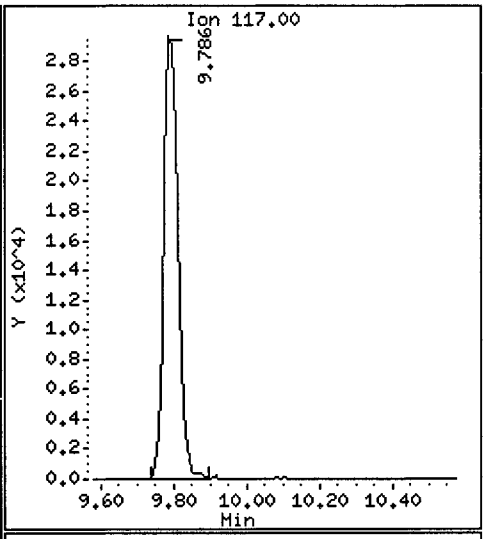
Column phase: RTX 624

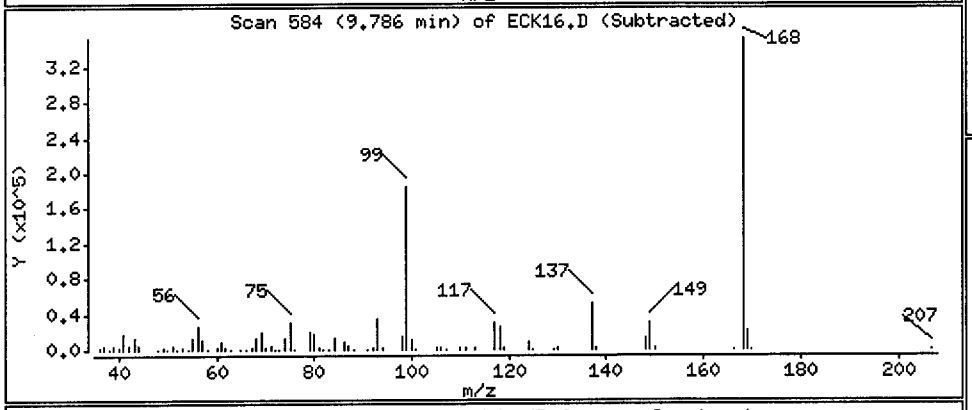
Column diameter: 0.25

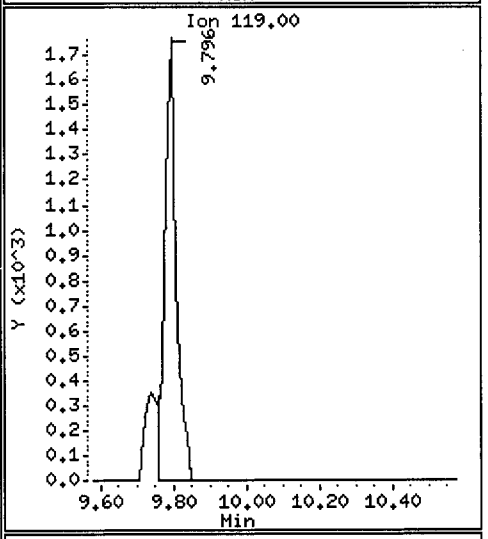
30 Carbon Tetrachloride

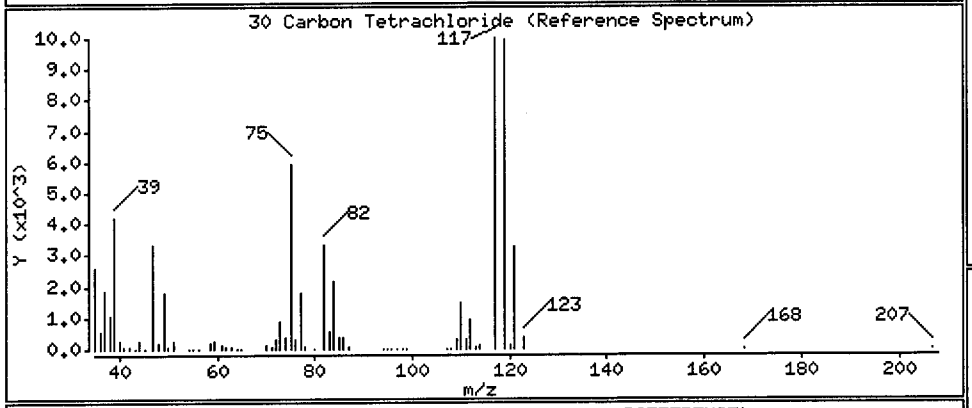
Concentration: 6.1603 UG/L

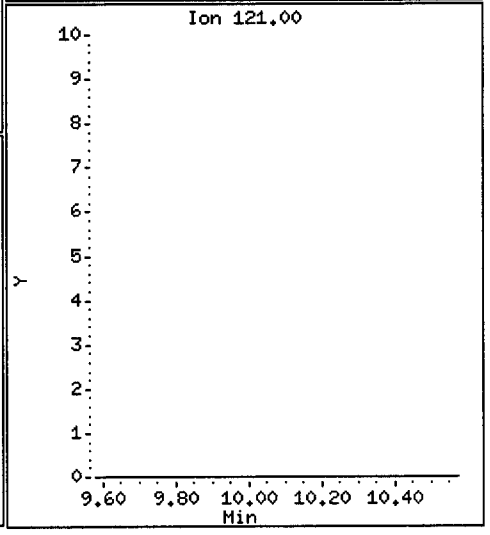


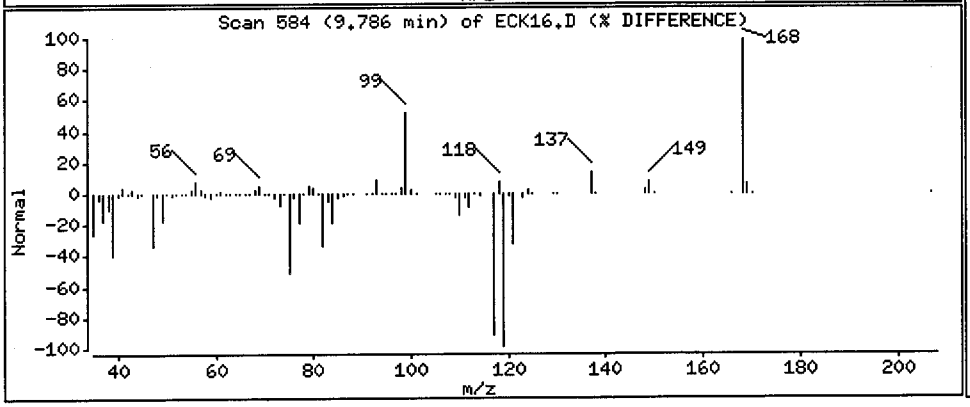












[1,1-Dichloropropene; 4.2; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

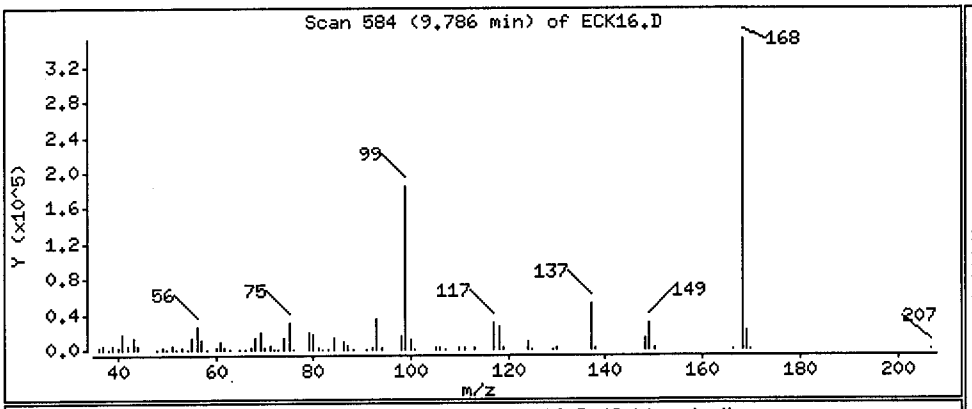
Operator: VOC

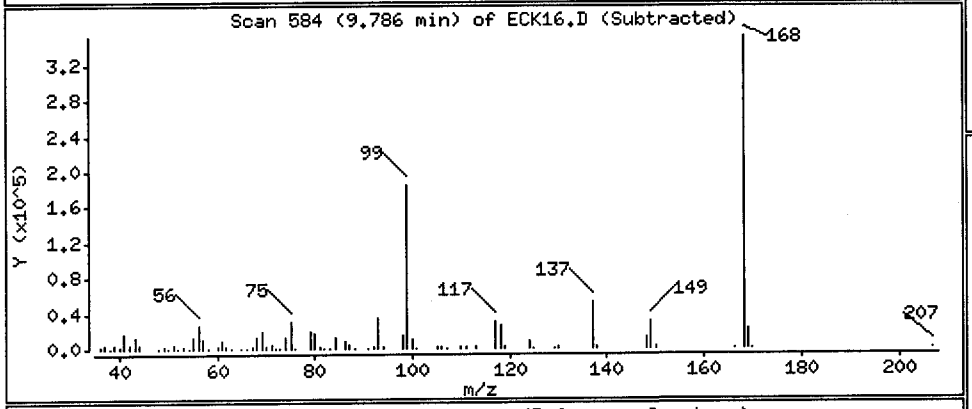
Column phase: RTX 624

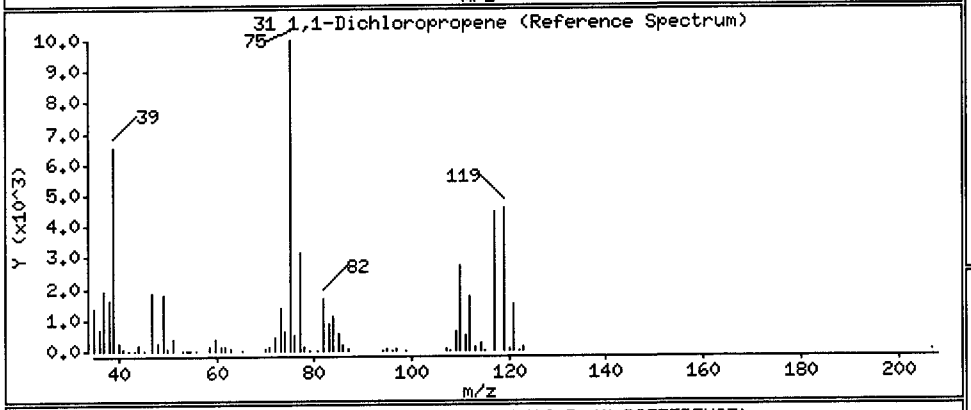
Column diameter: 0.25

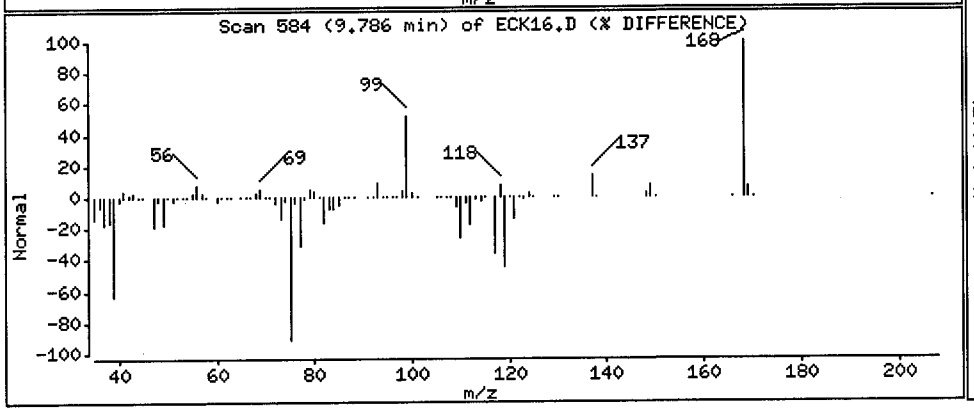
31 1,1-Dichloropropene

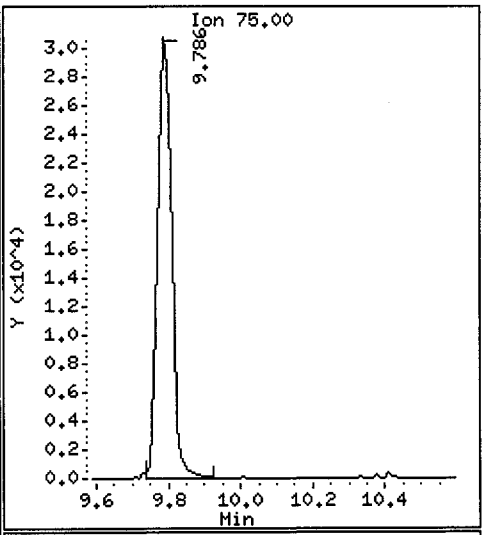
Concentration: 5.0159 UG/L

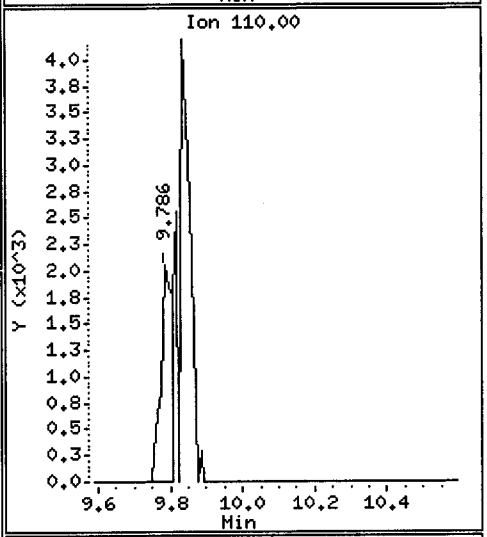


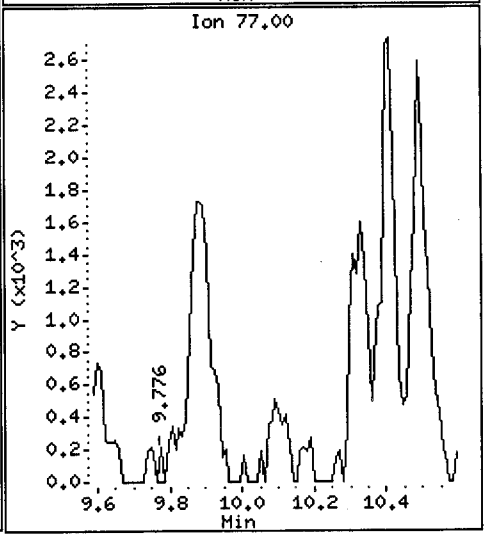












[Benzene; 0.27 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

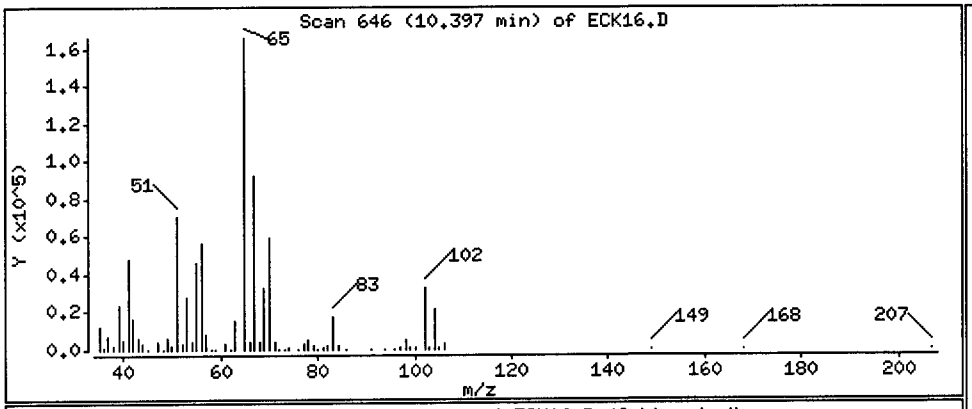
Operator: VOC

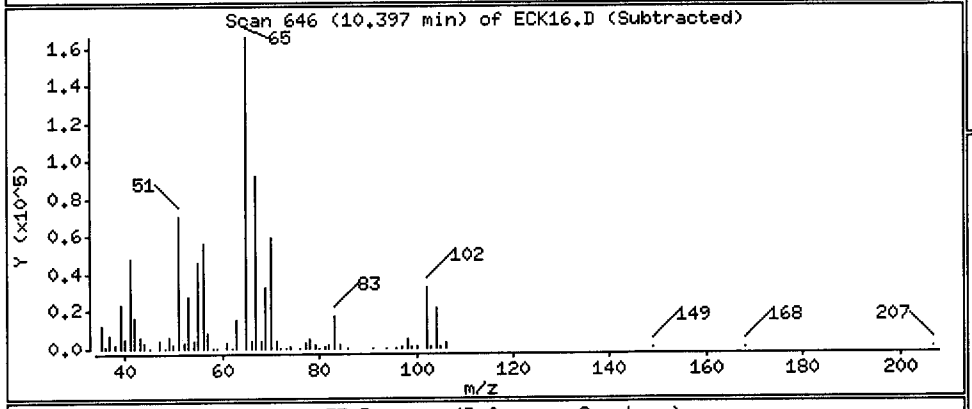
Column phase: RTX 624

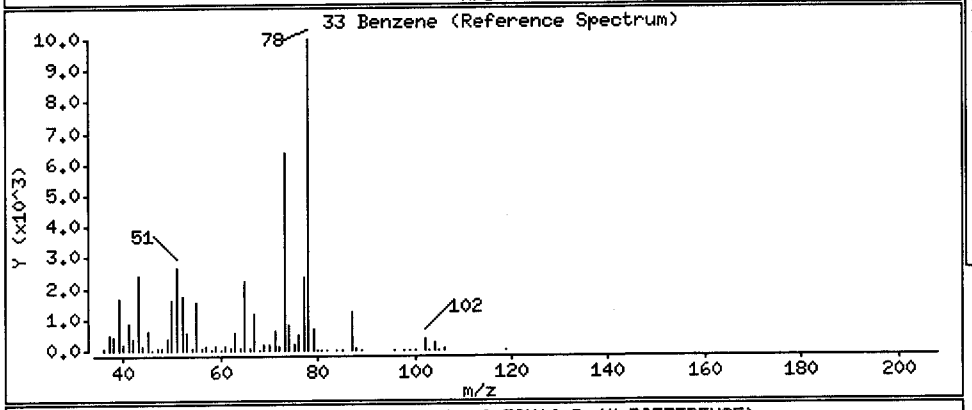
Column diameter: 0.25

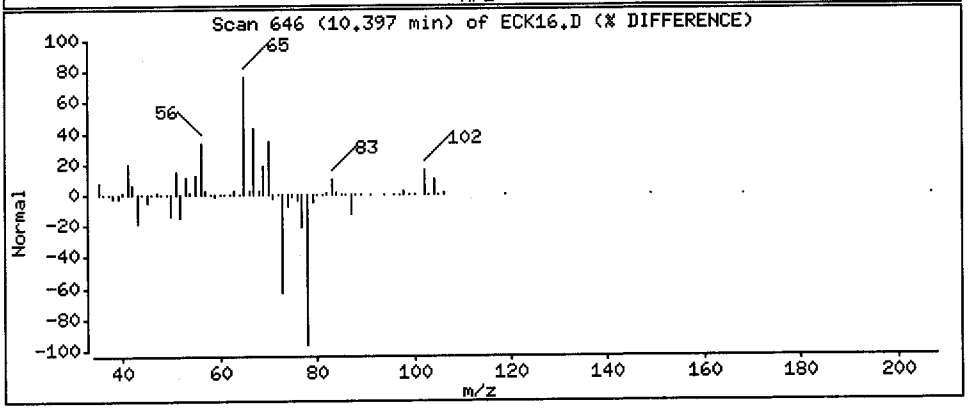
33 Benzene

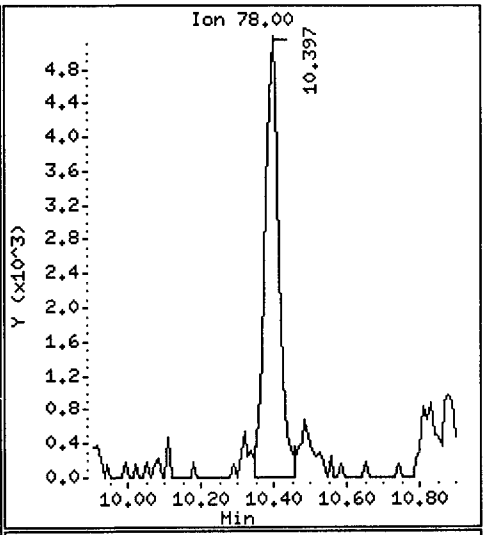
Concentration: 0.3246 UG/L

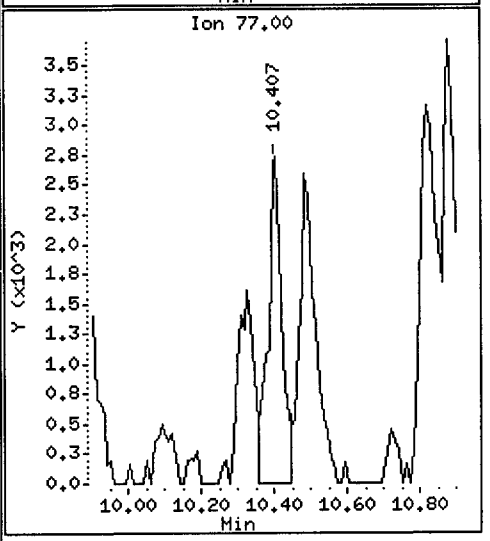












[Trichloroethene; 0.58 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

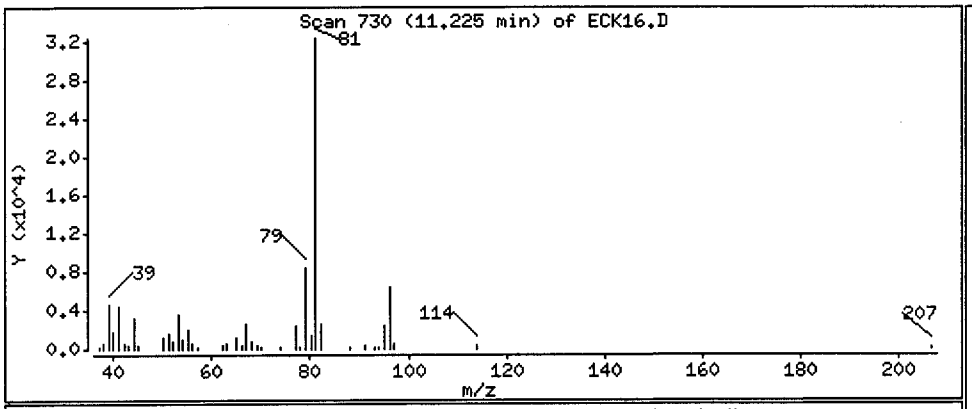
Operator: VOC

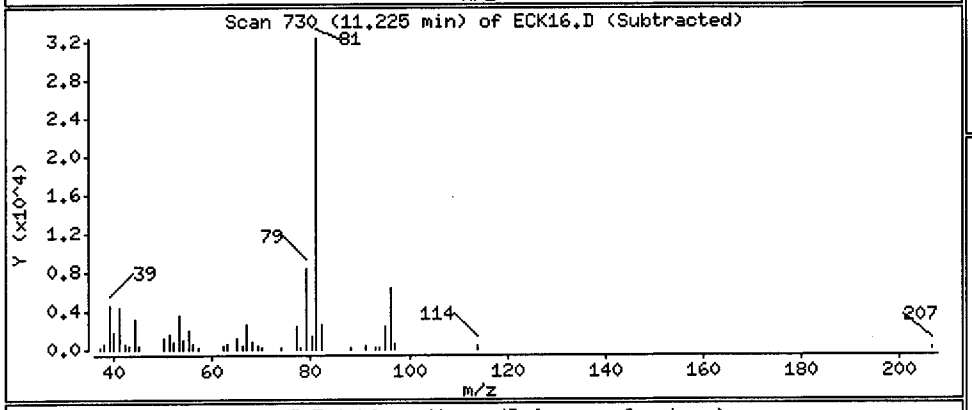
Column phase: RTX 624

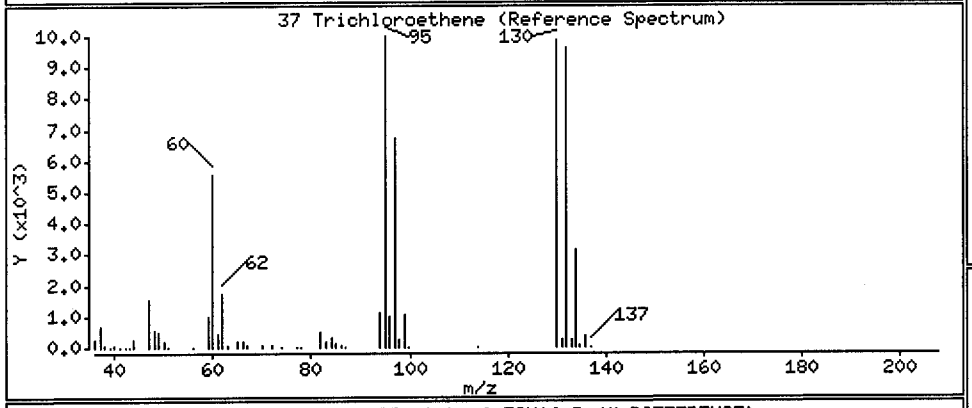
Column diameter: 0.25

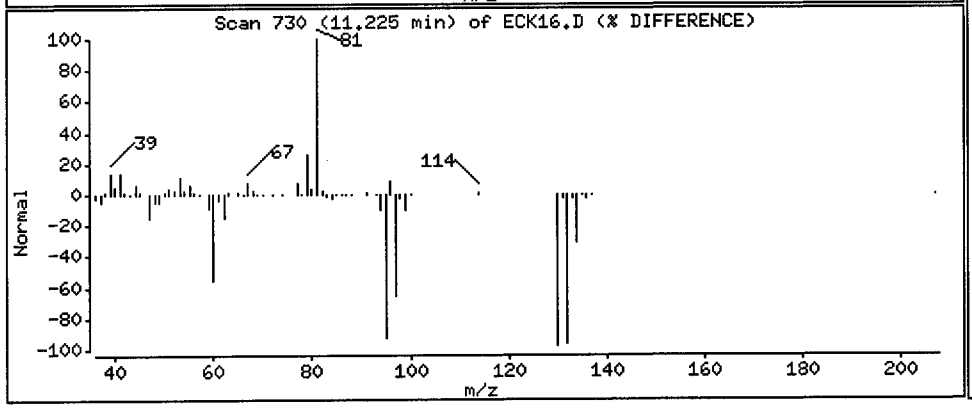
37 Trichloroethene

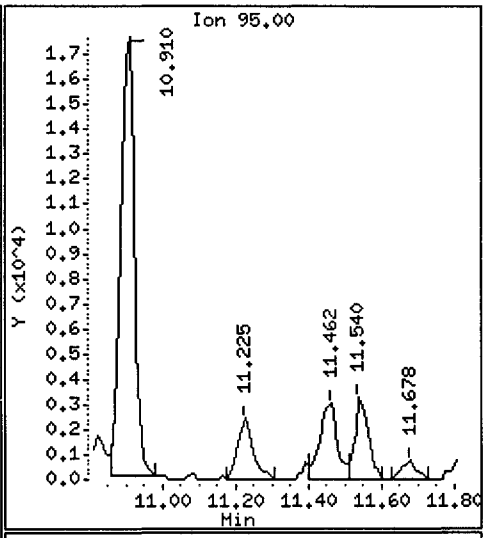
Concentration: 0.6982 UG/L

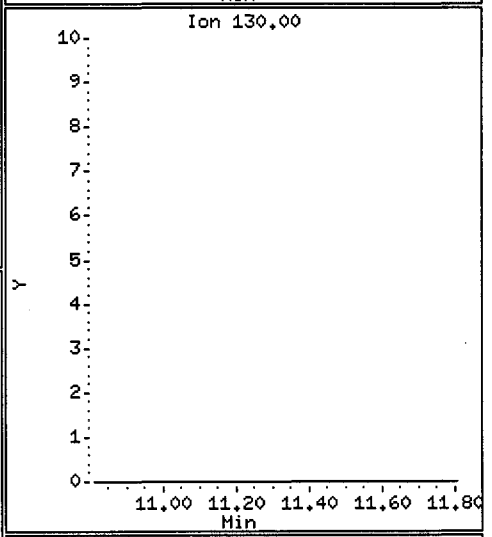


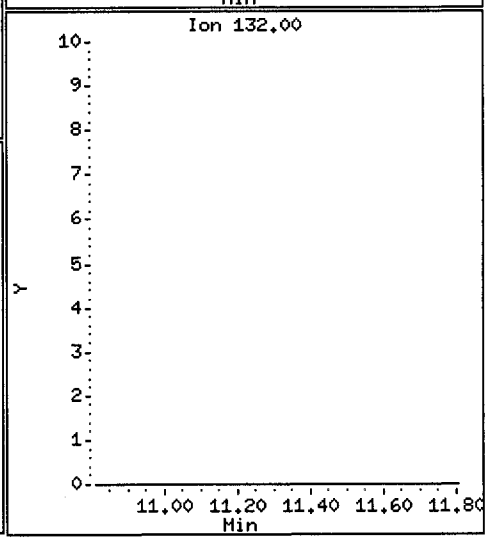












[1,2-Dichloropropane; 0.53 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

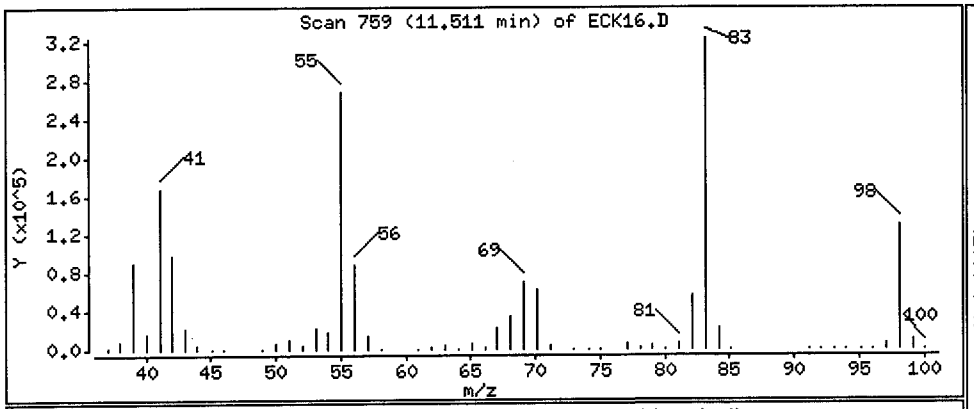
Operator: VOC

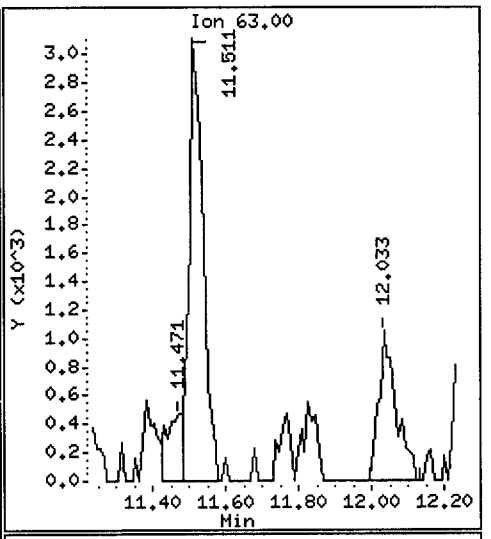
Column phase: RTX 624

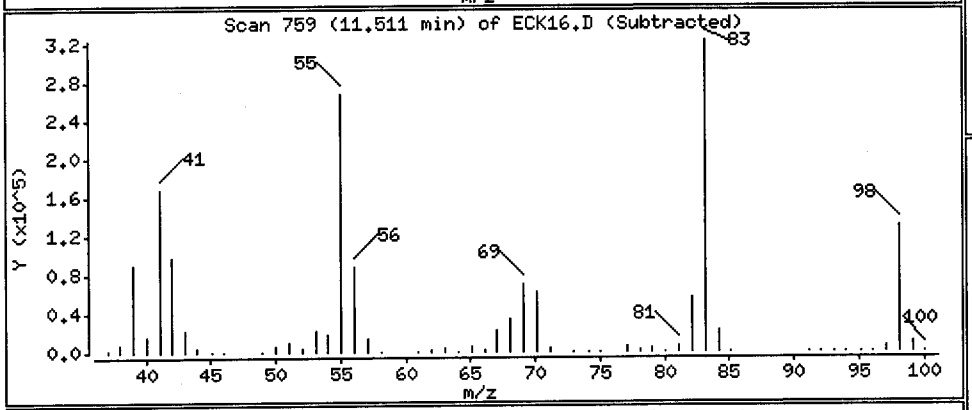
Column diameter: 0.25

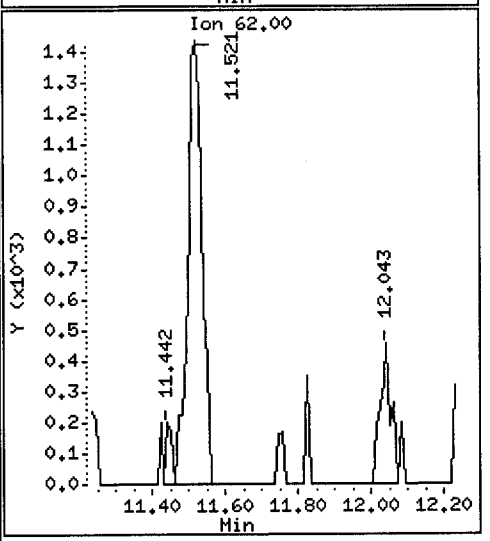
39 1,2-Dichloropropane

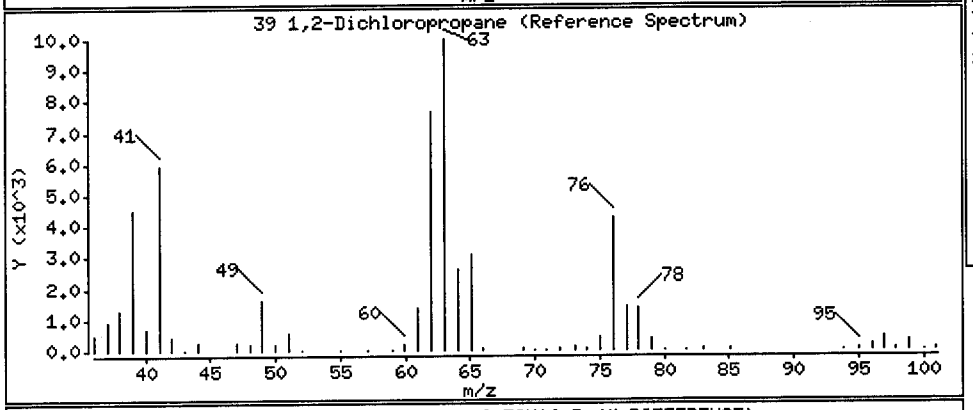
Concentration: 0.6391 UG/L

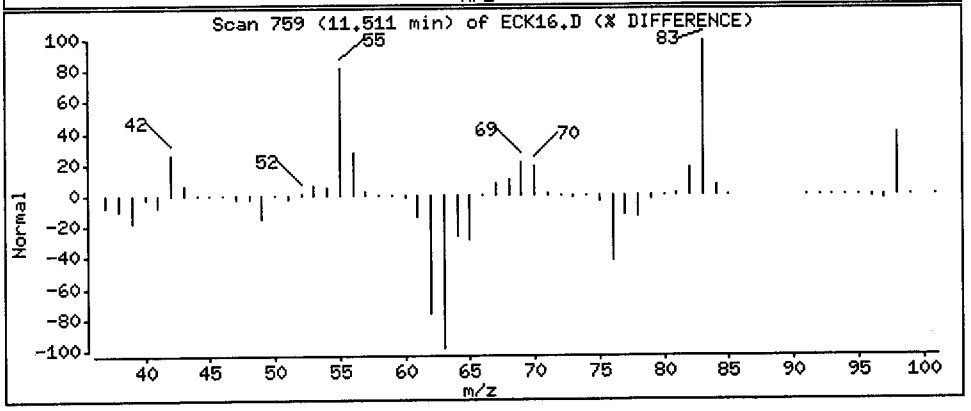












[Dibromomethane; 0.28 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

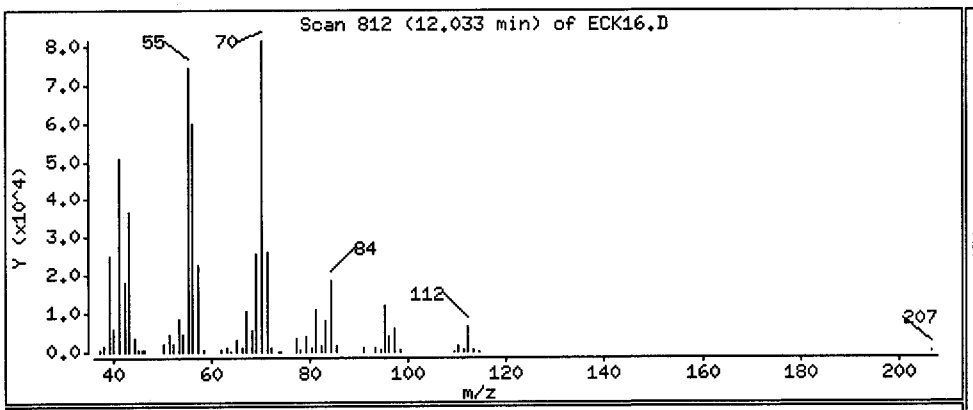
Operator: VOC

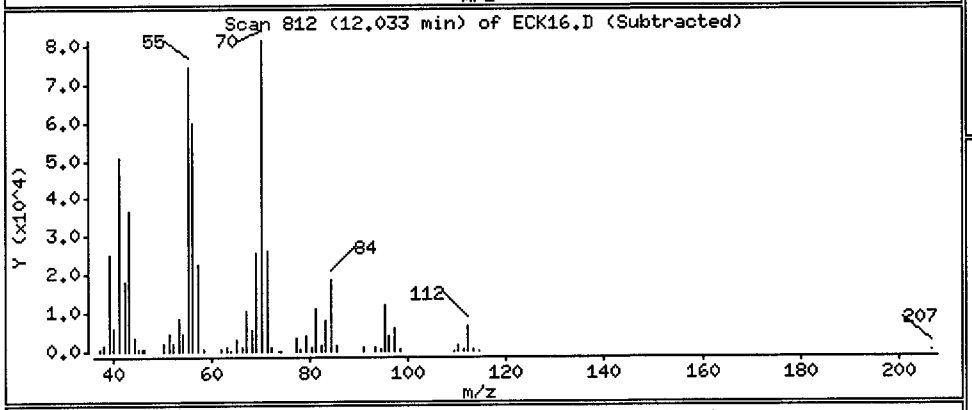
Column phase: RTX 624

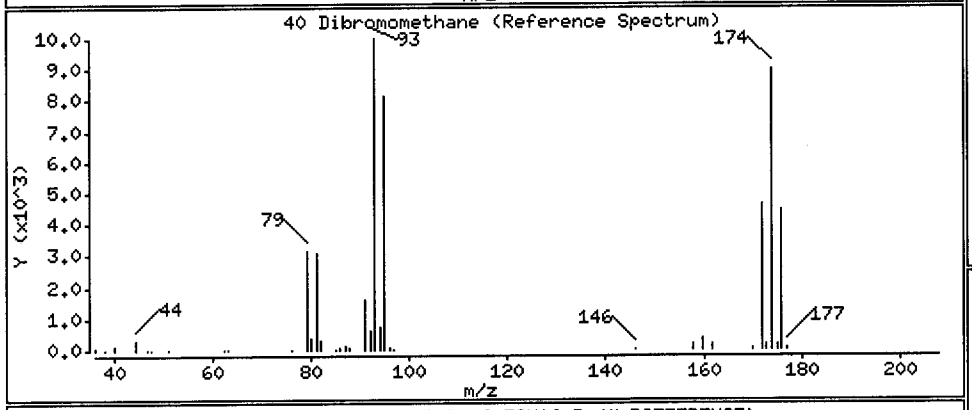
Column diameter: 0.25

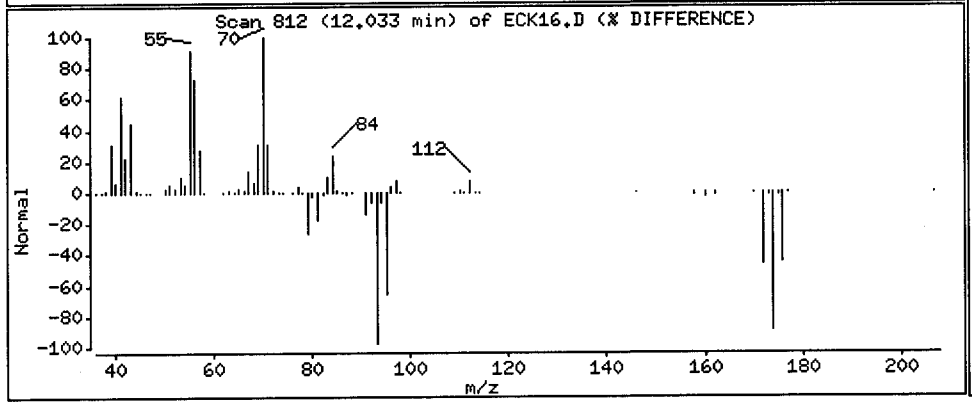
40 Dibromomethane

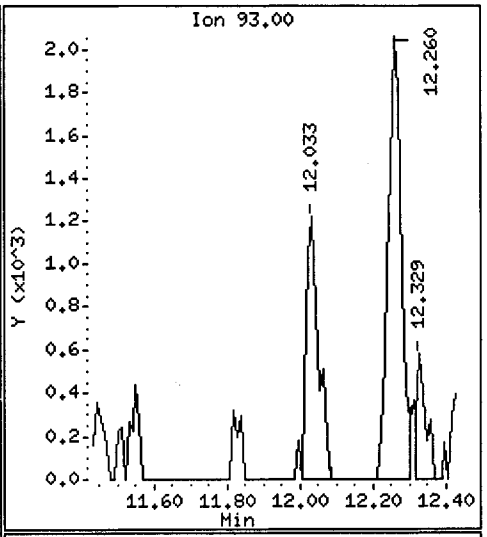
Concentration: 0.3323 UG/L

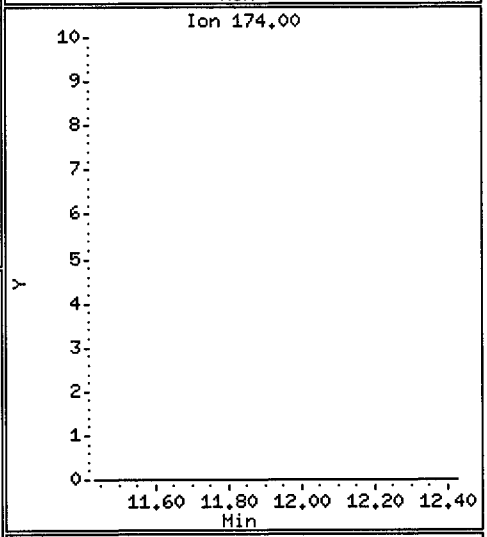


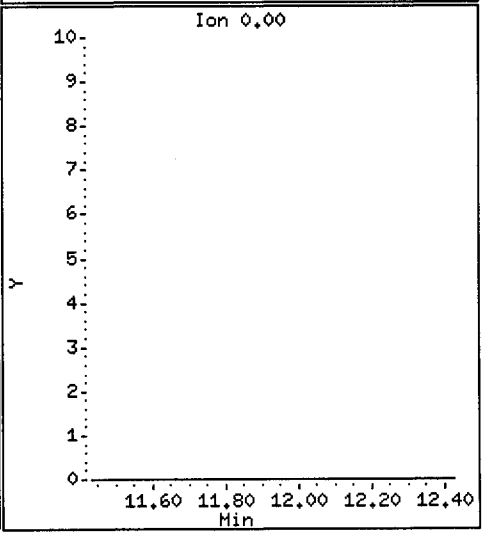












[Bromodichloromethane; 1.1 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

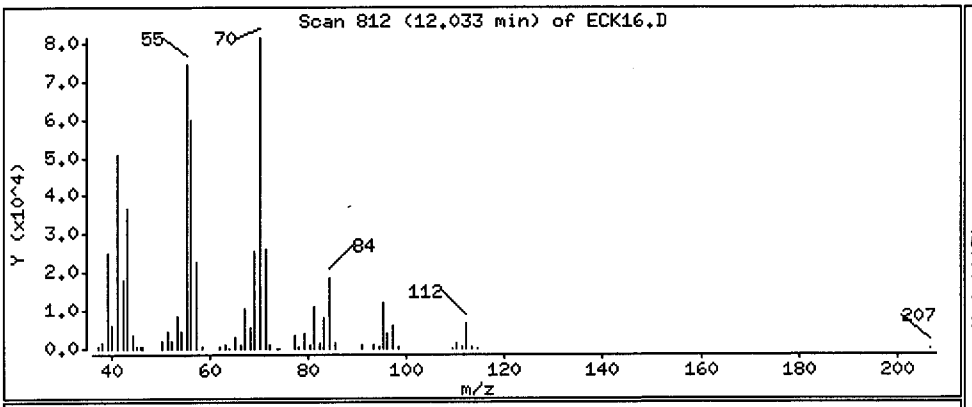
Operator: VOC

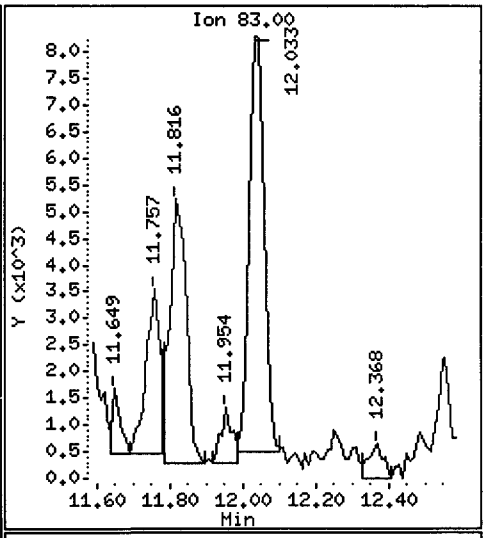
Column phase: RTX 624

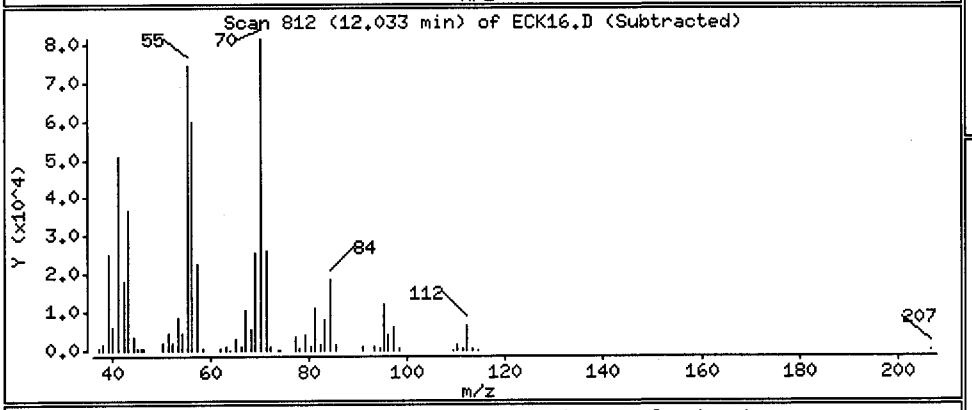
Column diameter: 0.25

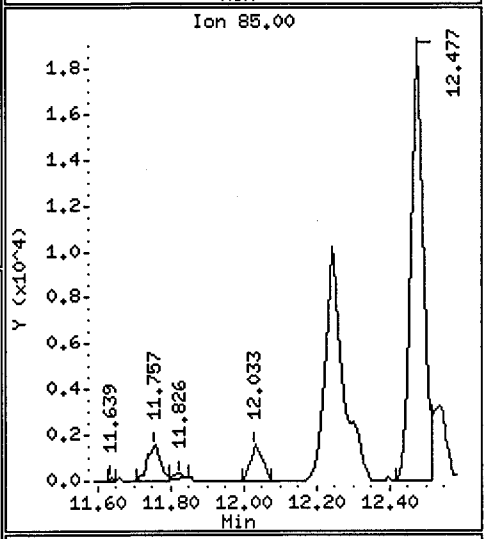
41 Bromodichloromethane

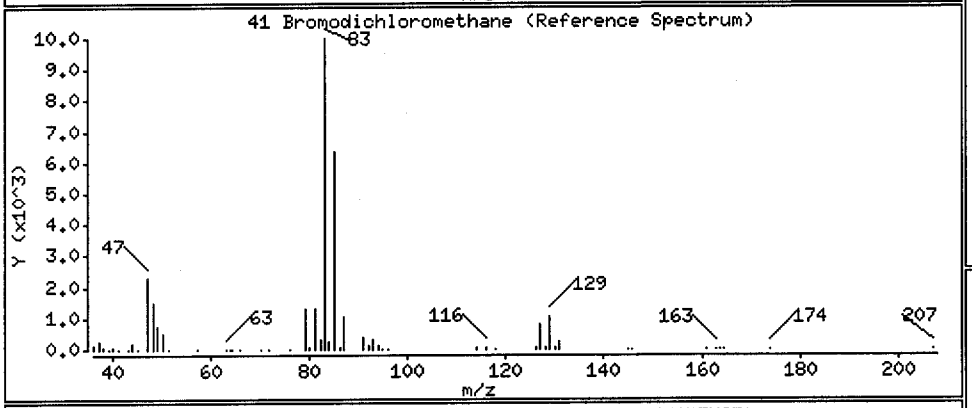
Concentration: 1.2968 UG/L

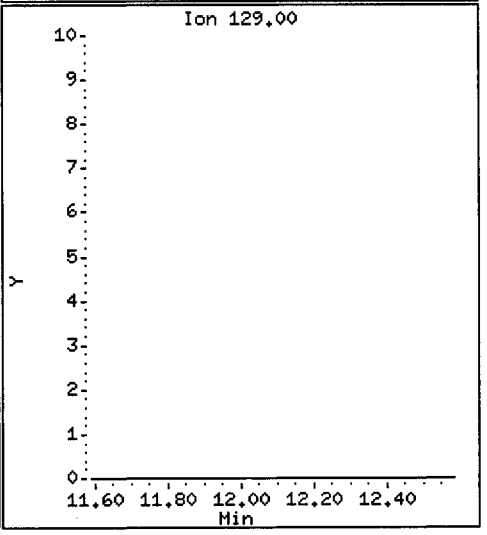


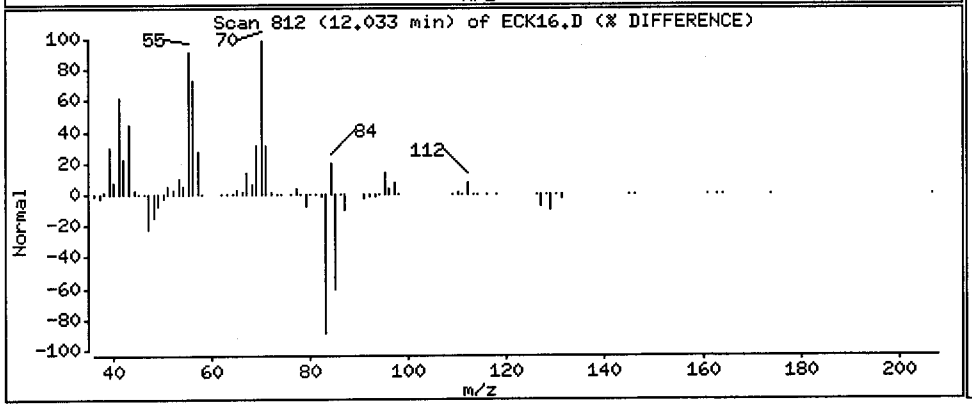












[4-Methyl-2-Pentanone; 2.5 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

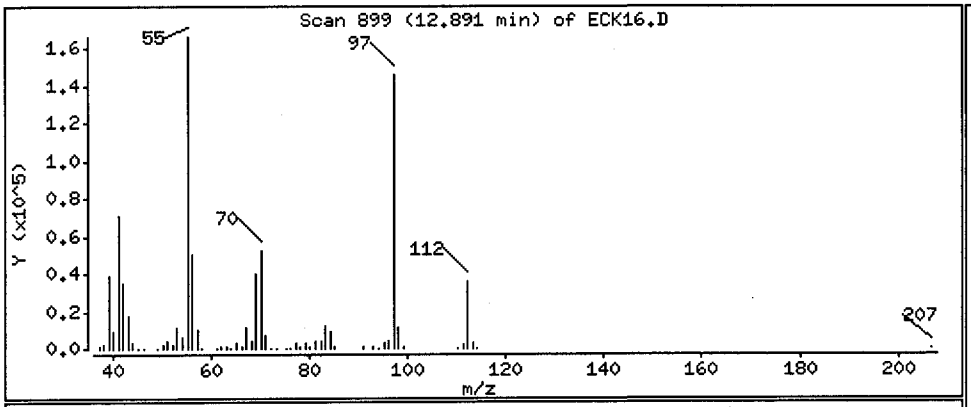
Operator: VOC

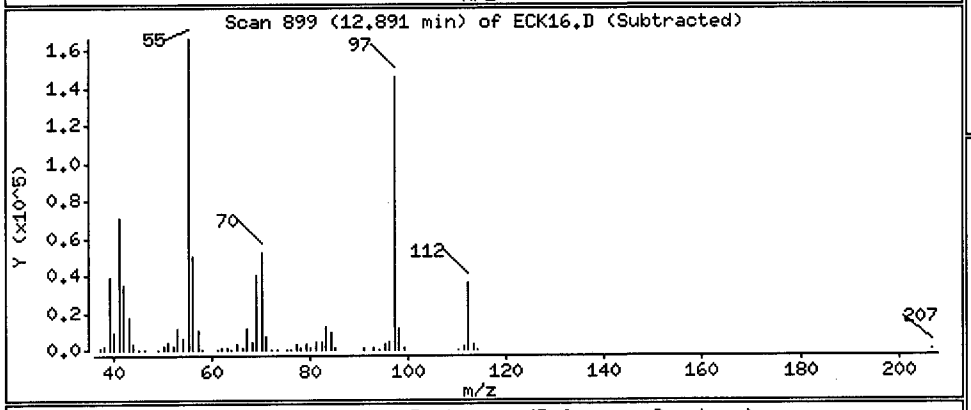
Column phase: RTX 624

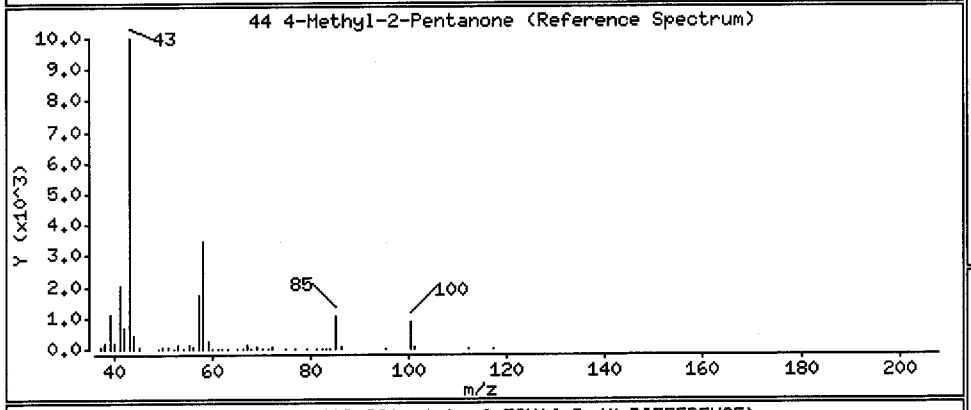
Column diameter: 0.25

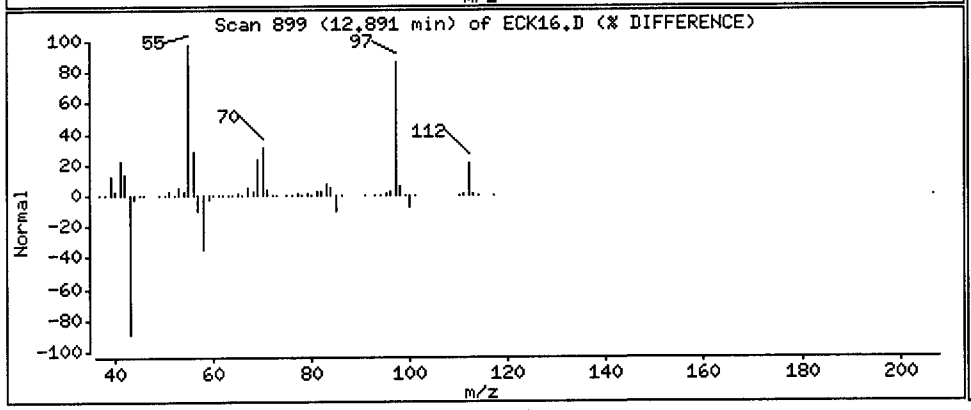
44 4-Methyl-2-Pentanone

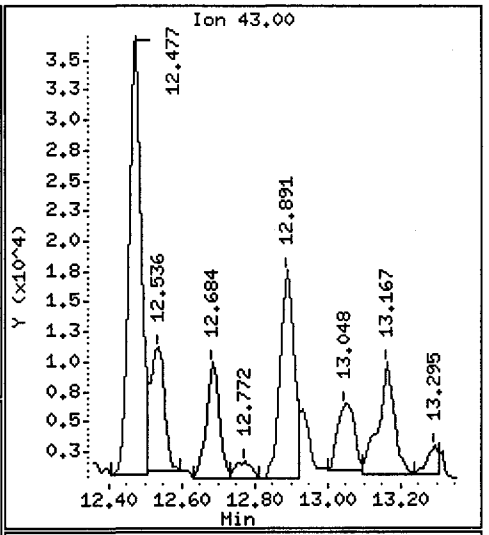
Concentration: 3.0077 UG/L

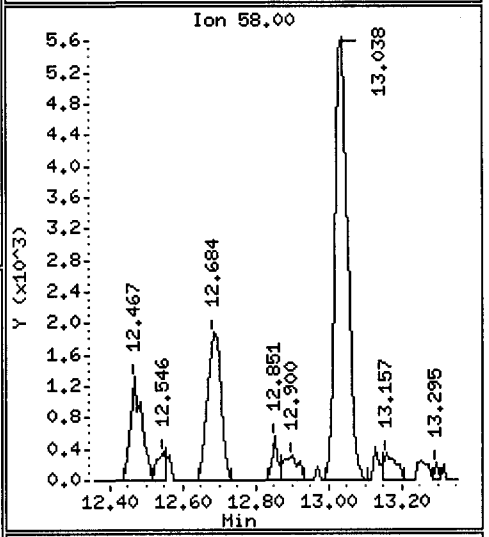


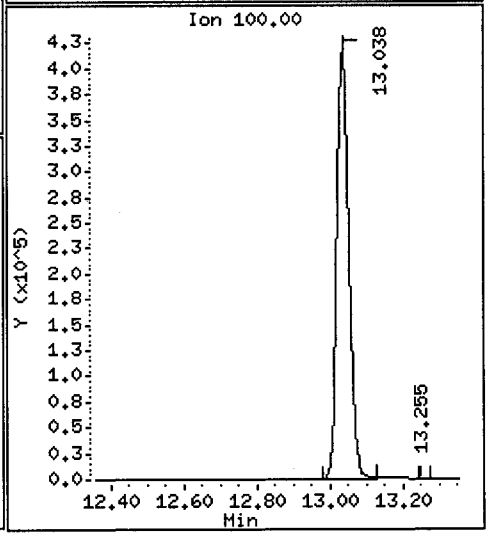












[Toluene; 0.32 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

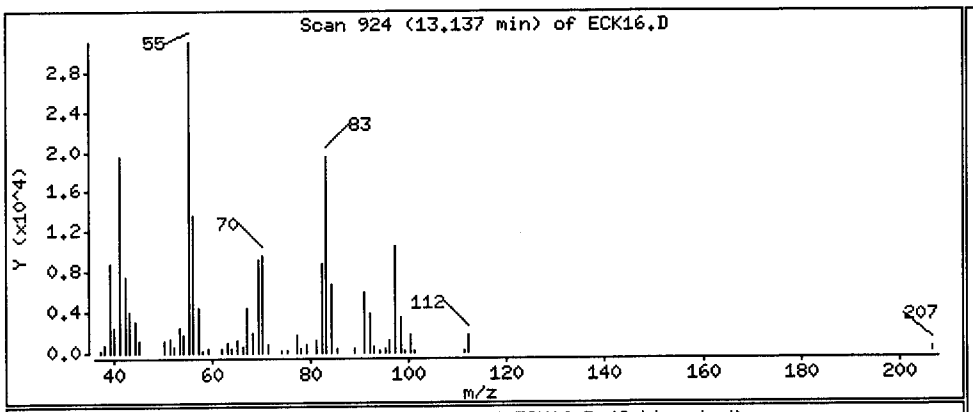
Operator: VOC

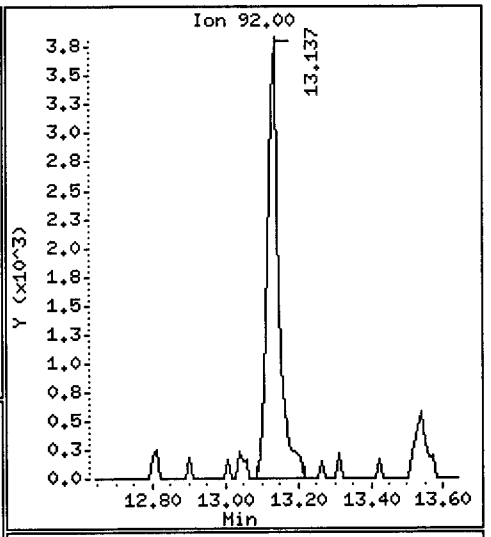
Column phase: RTX 624

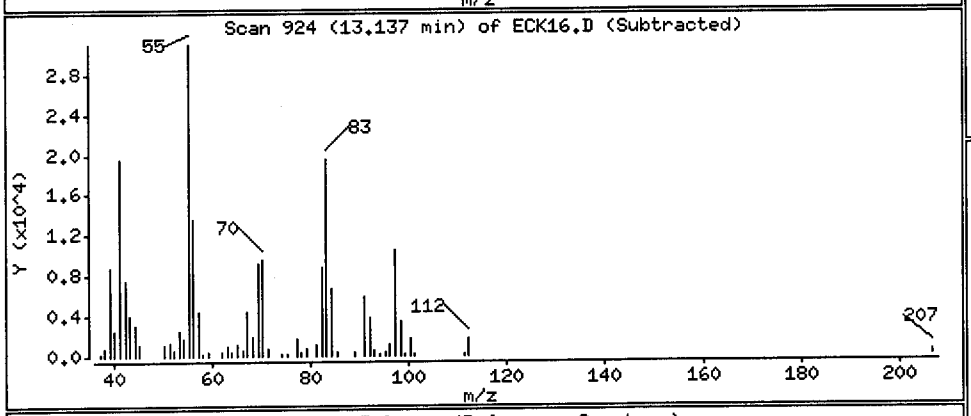
Column diameter: 0.25

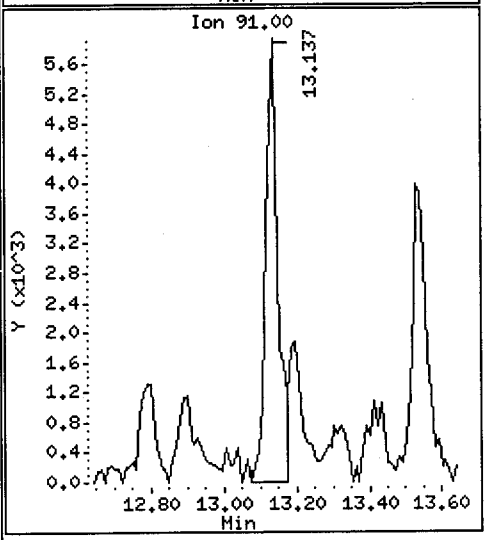
46 Toluene

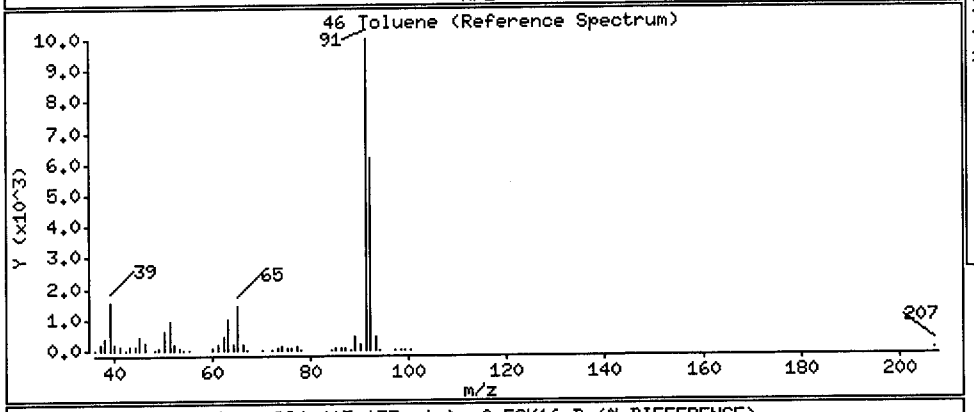
Concentration: 0.3802 UG/L

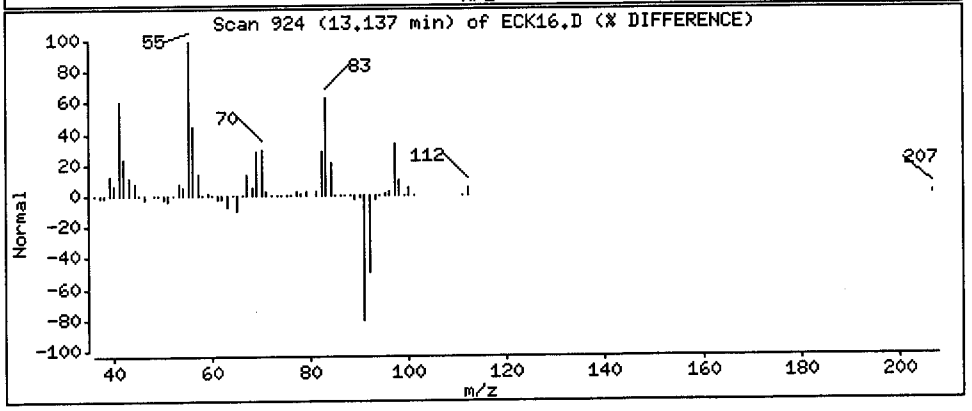












[1,1,2-Trichloroethane; 1.3 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

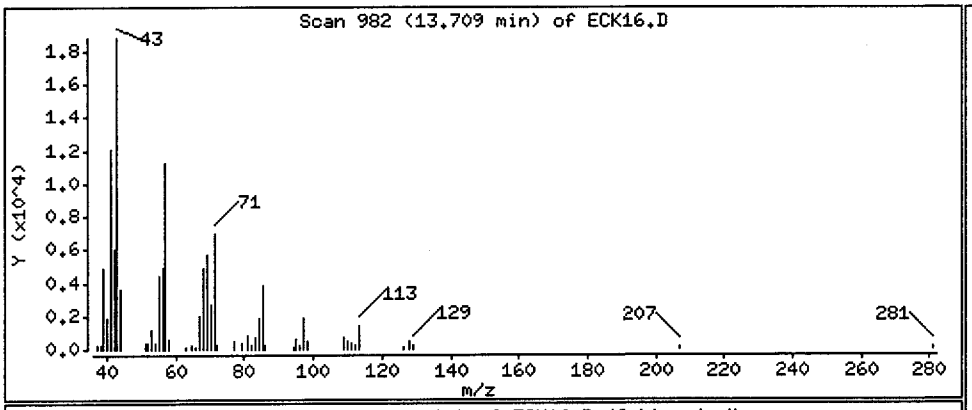
Operator: VOC

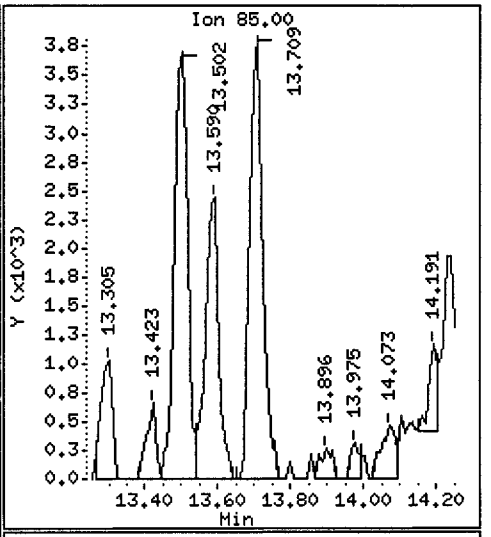
Column phase: RTX 624

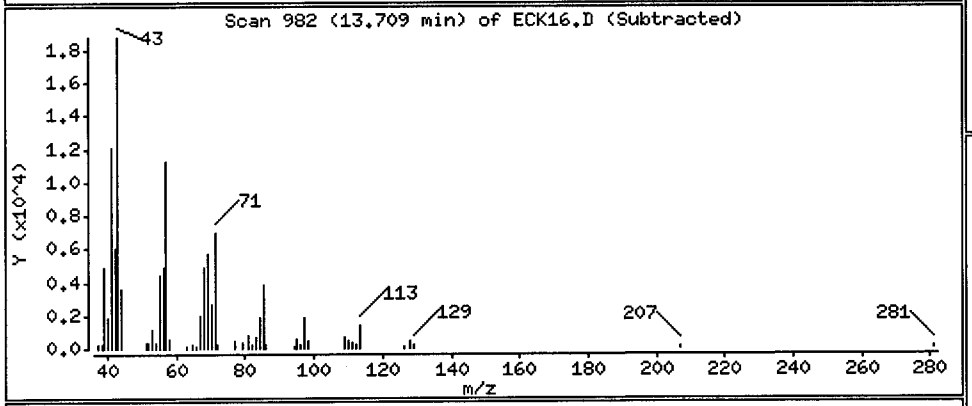
Column diameter: 0.25

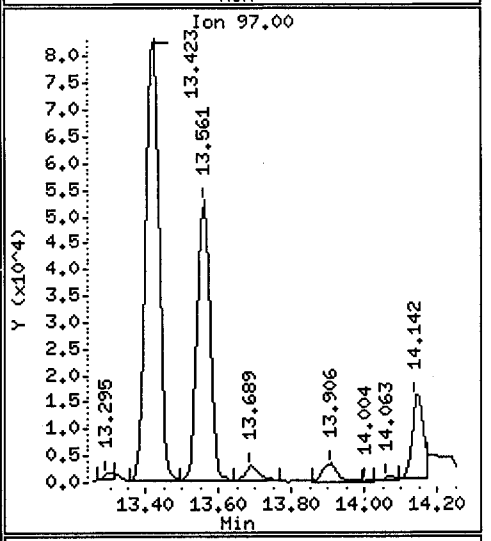
48 1,1,2-Trichloroethane

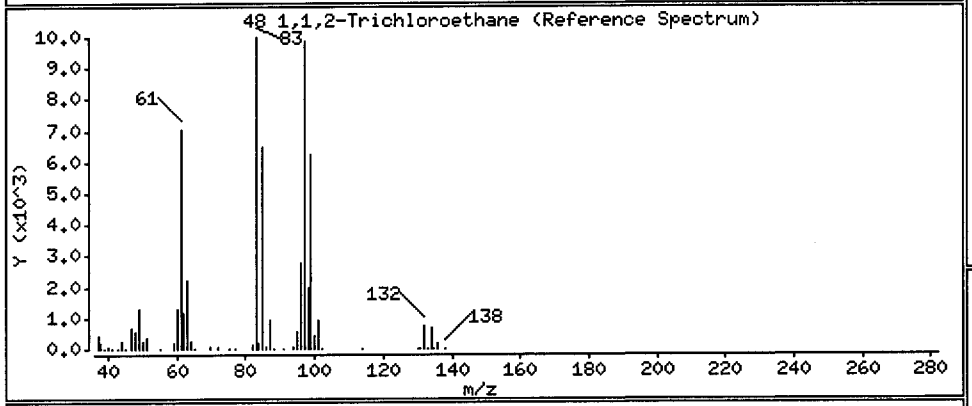
Concentration: 1.5692 UG/L

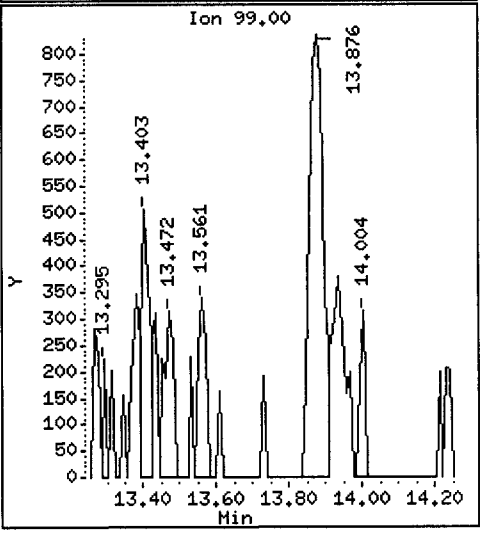


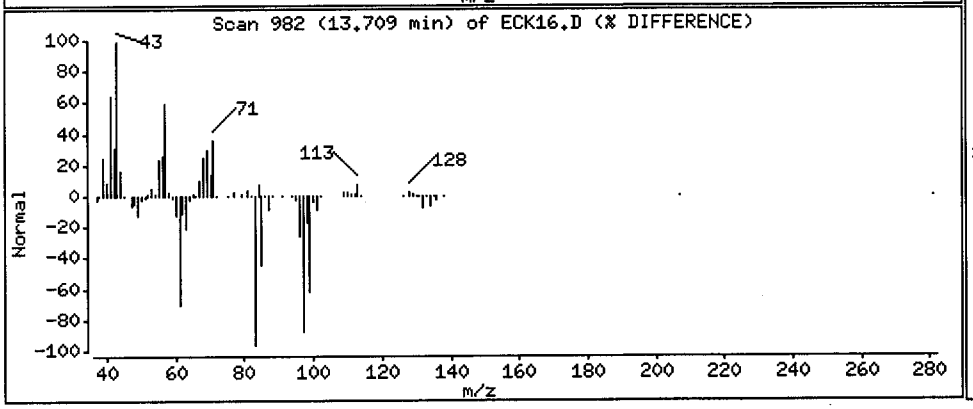












[m,p-Xylenes; 1.2 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

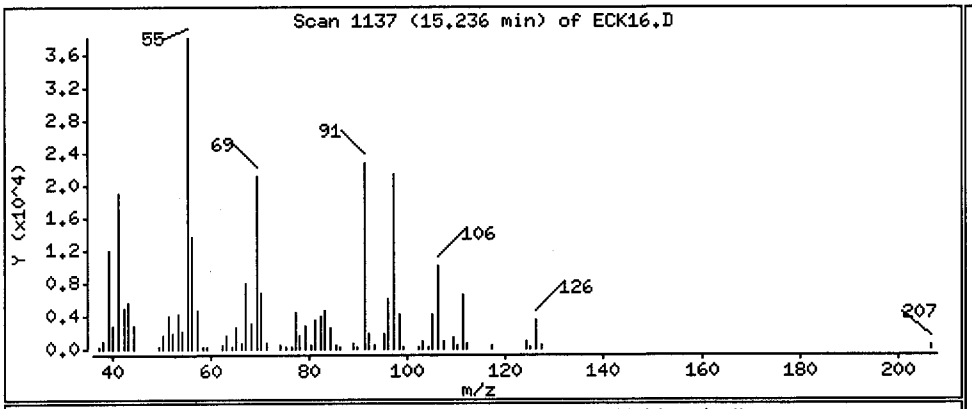
Operator: VOC

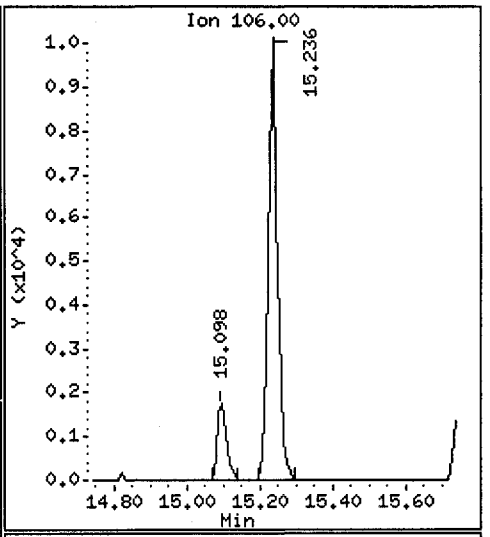
Column phase: RTX 624

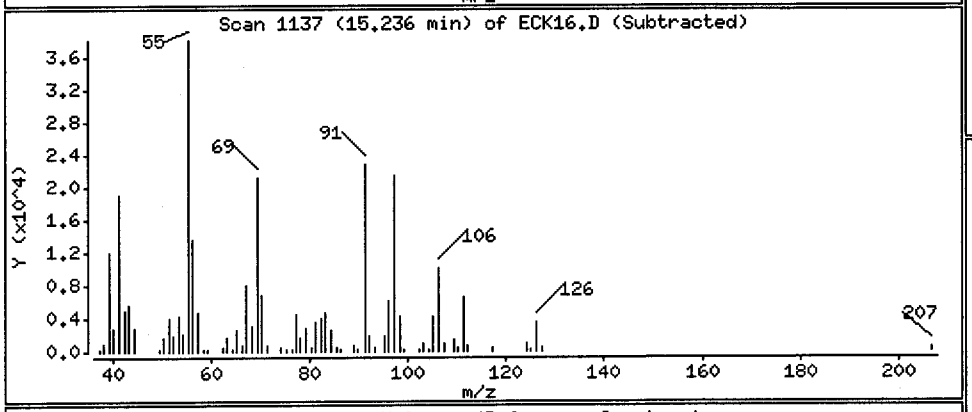
Column diameter: 0.25

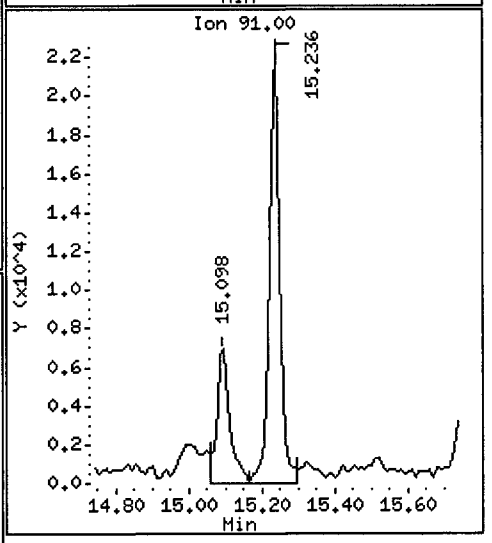
58 m,p-Xylenes

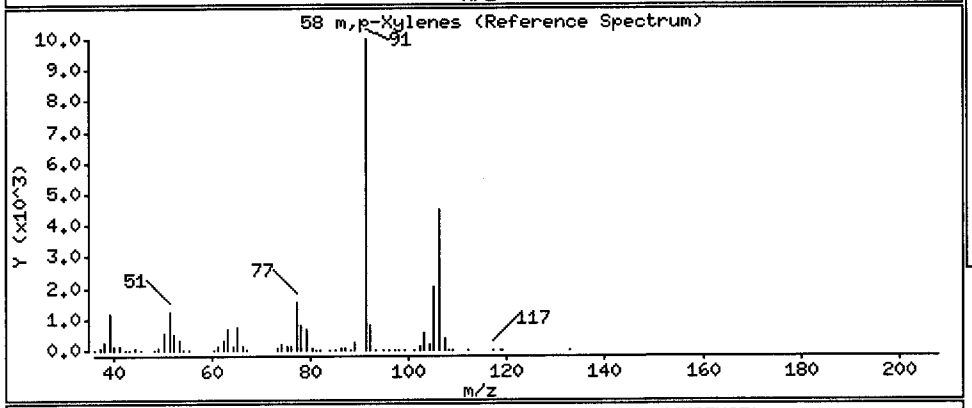
Concentration: 1.4897 UG/L

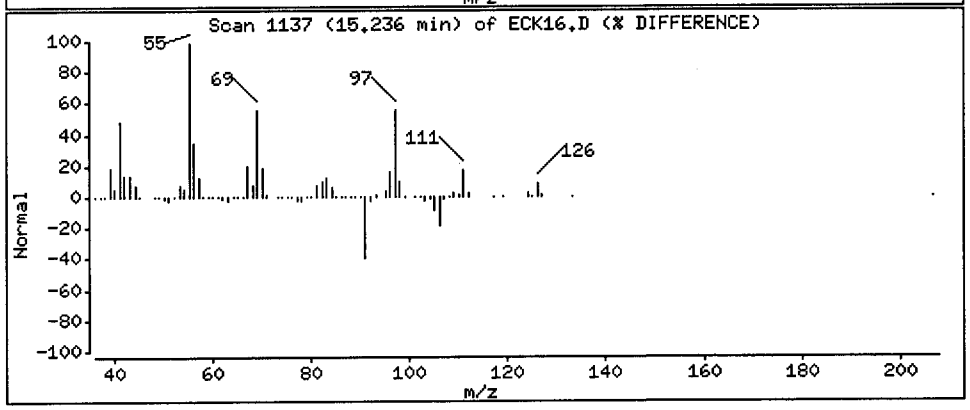












[Isopropylbenzene; 3.2 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

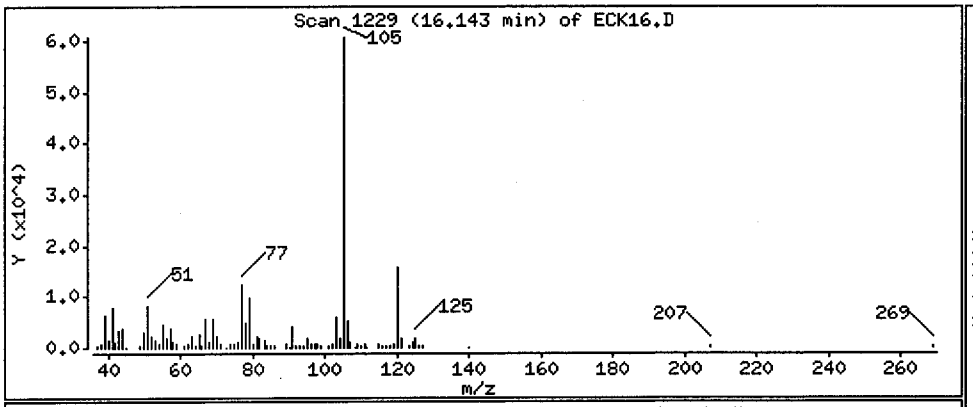
Operator: VOC

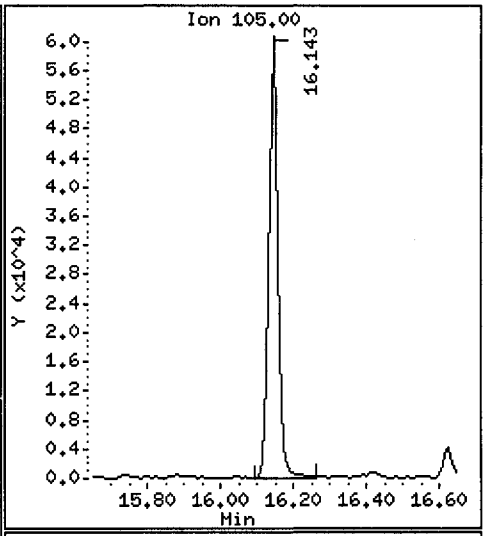
Column phase: RTX 624

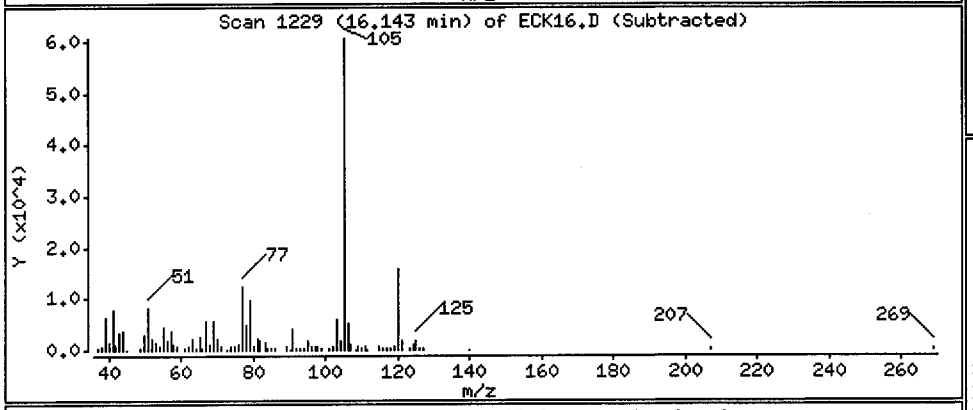
Column diameter: 0.25

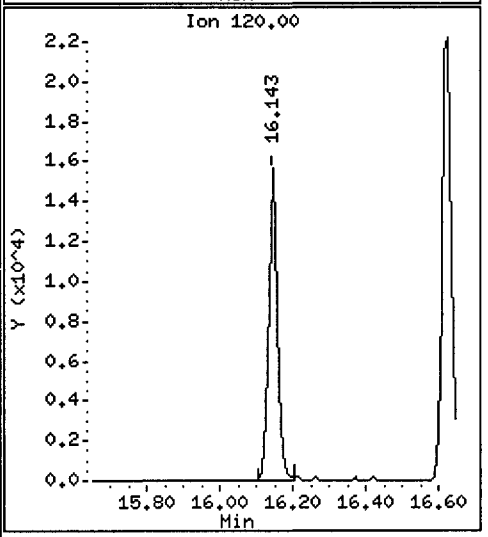
62 Isopropylbenzene

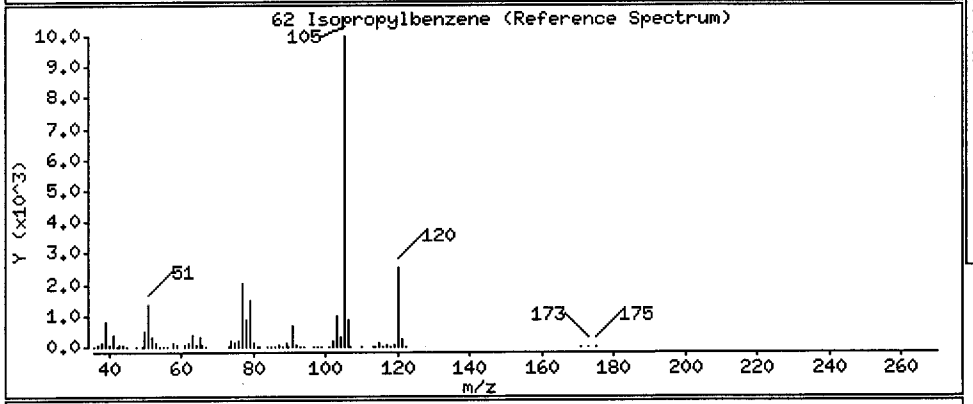
Concentration: 3.7903 UG/L

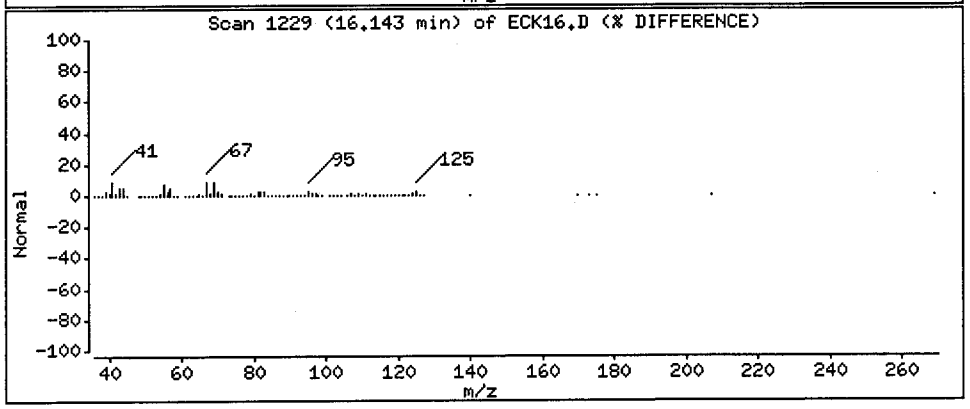












[Propylbenzene; 4.7; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

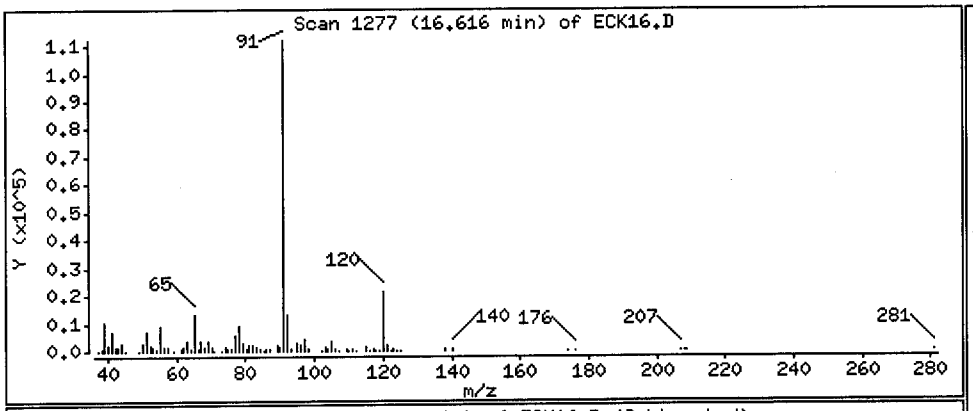
Operator: VOC

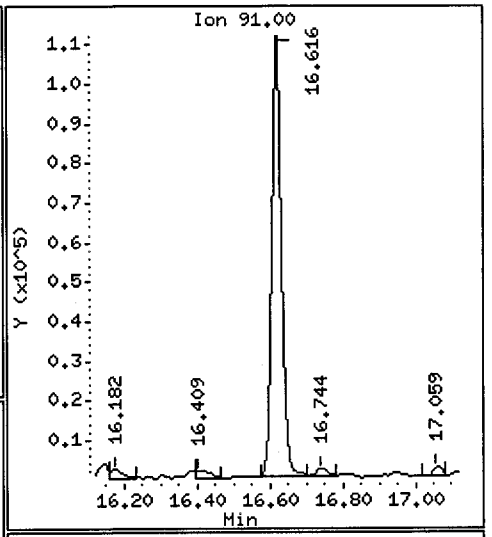
Column phase: RTX 624

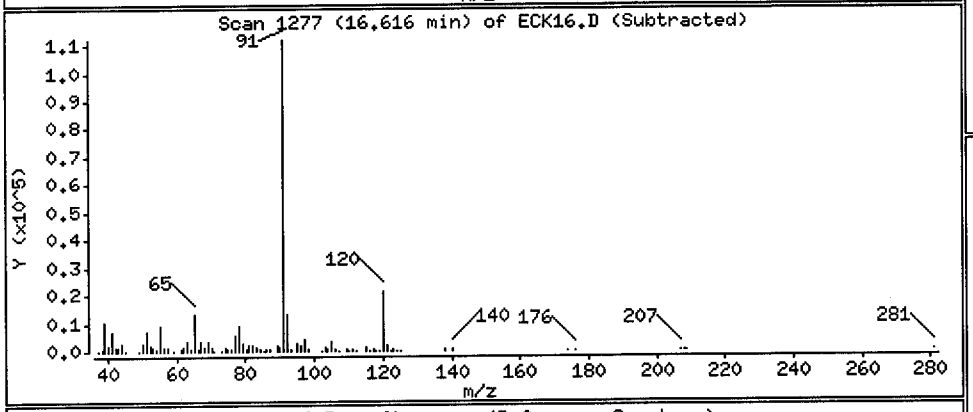
Column diameter: 0.25

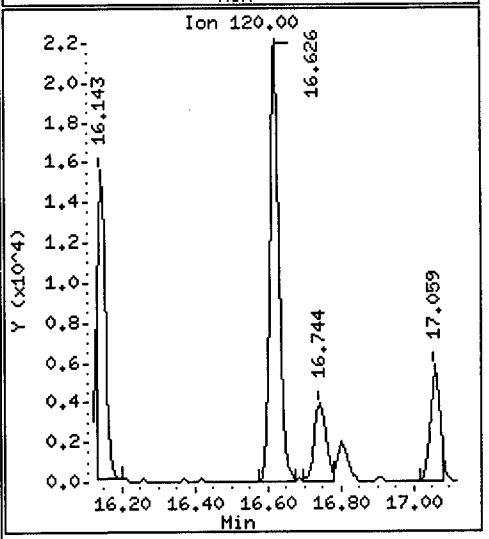
66 Propylbenzene

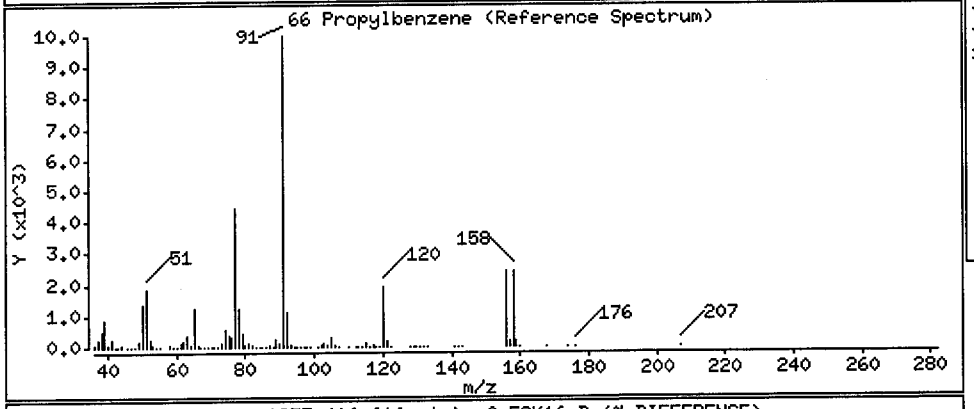
Concentration: 5.6394 UG/L

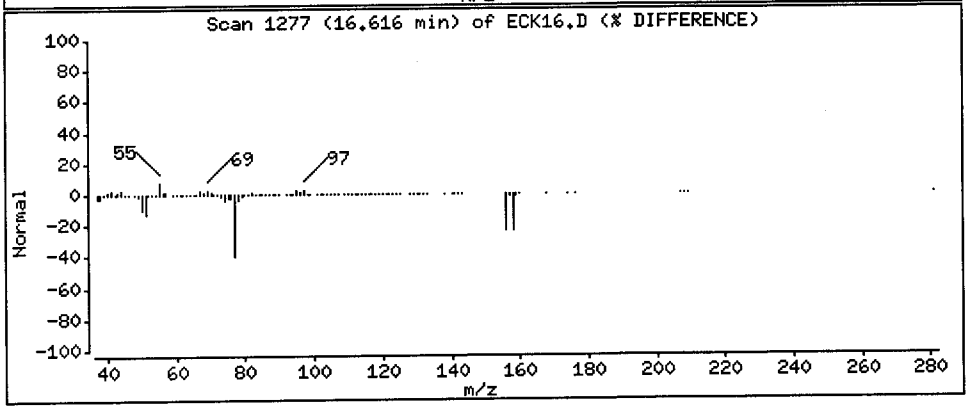












[sec-Butylbenzene; 1.2 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

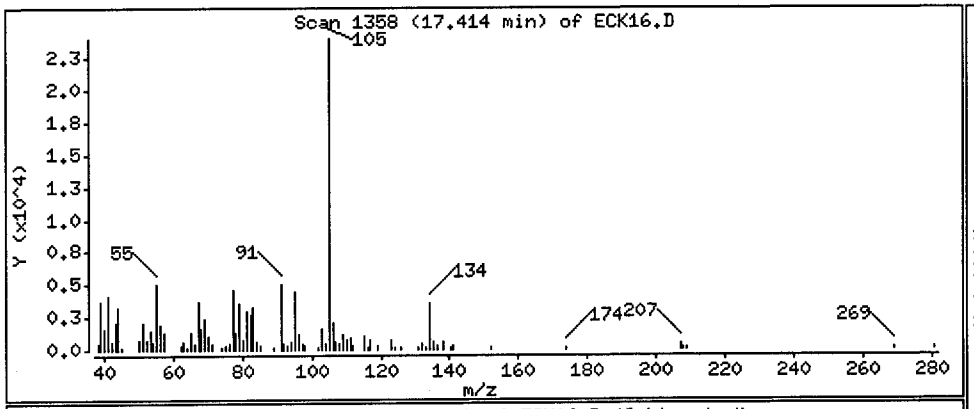
Operator: VOC

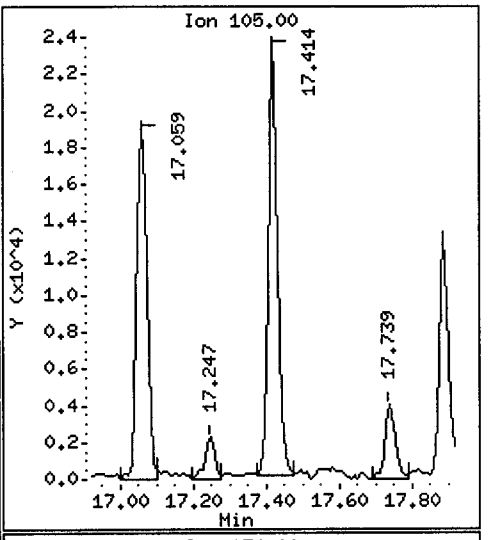
Column phase: RTX 624

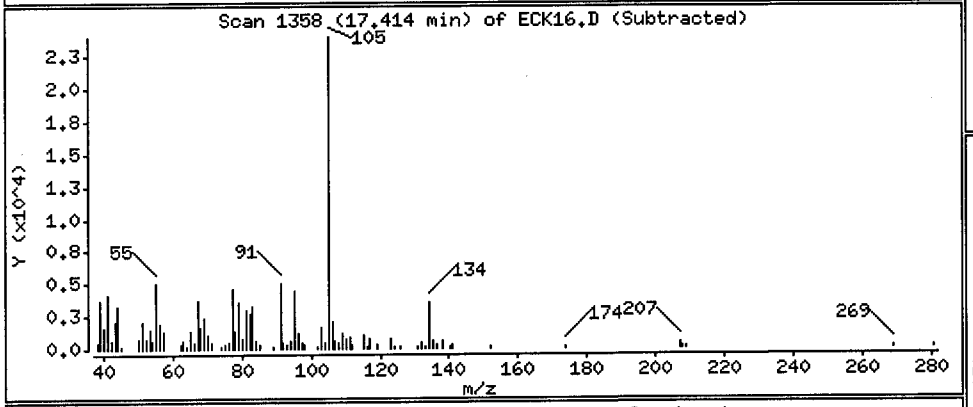
Column diameter: 0.25

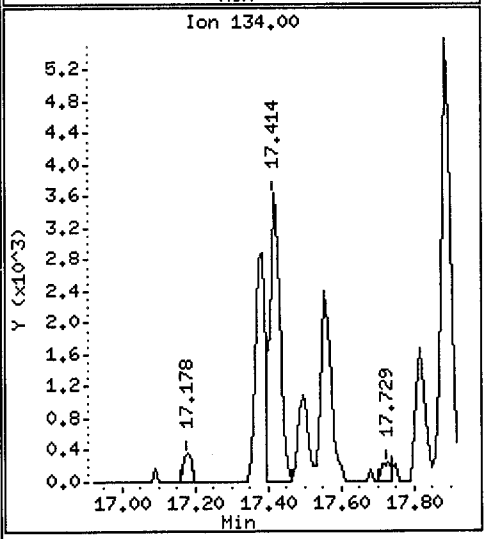
74 sec-Butylbenzene

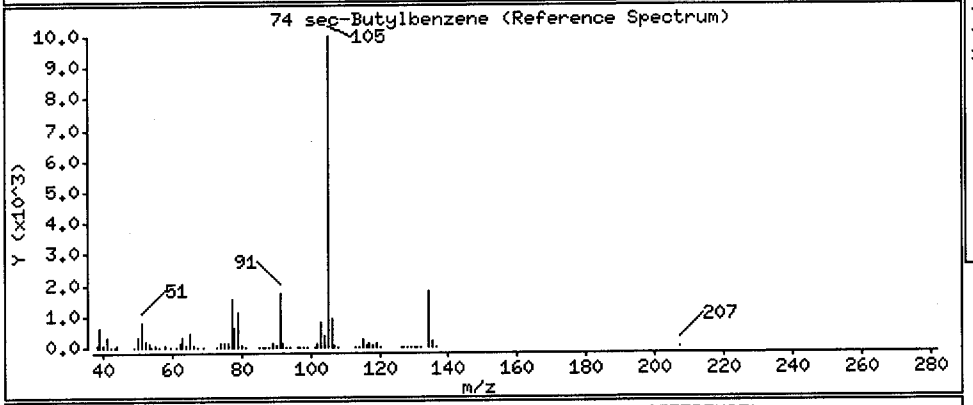
Concentration: 1.4042 UG/L

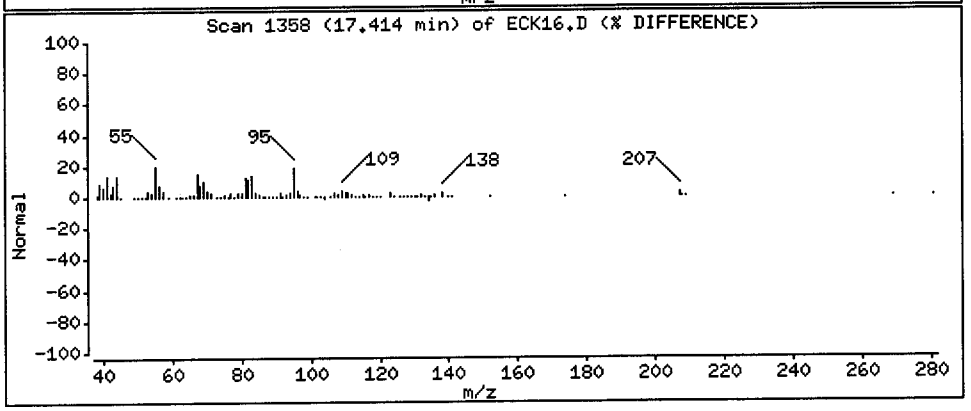












[para-Isopropyl Toluene; 0.57 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

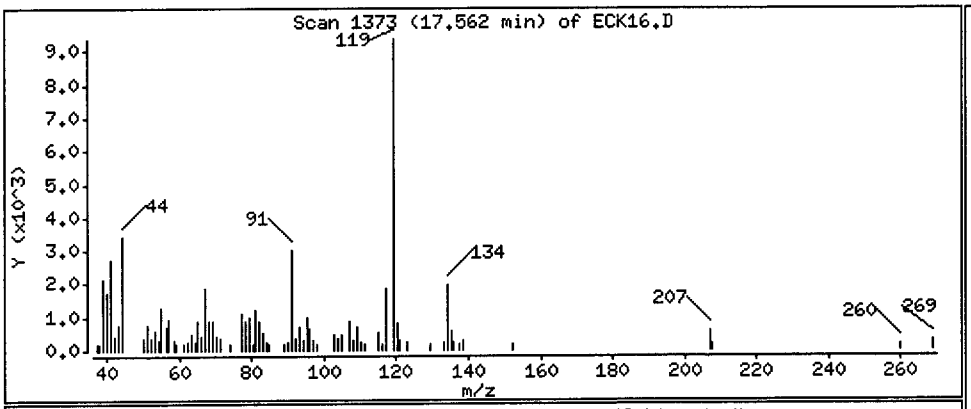
Operator: VOC

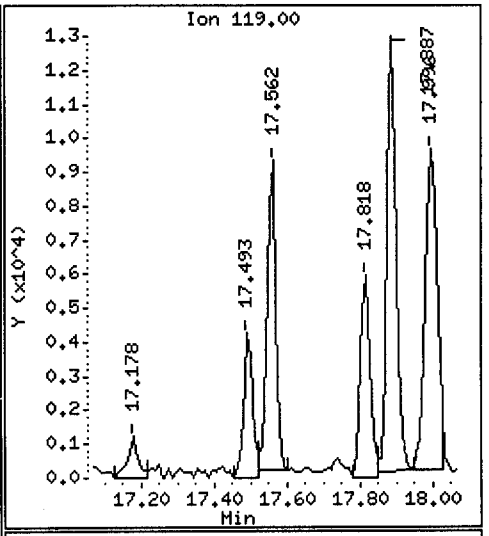
Column phase: RTX 624

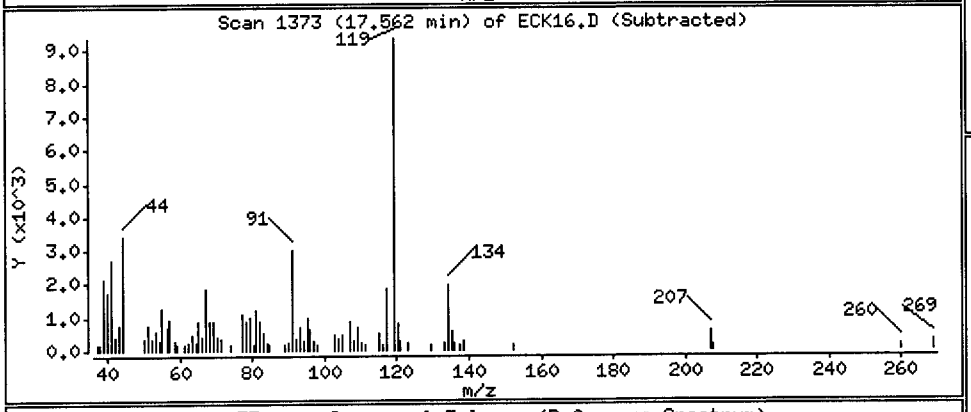
Column diameter: 0.25

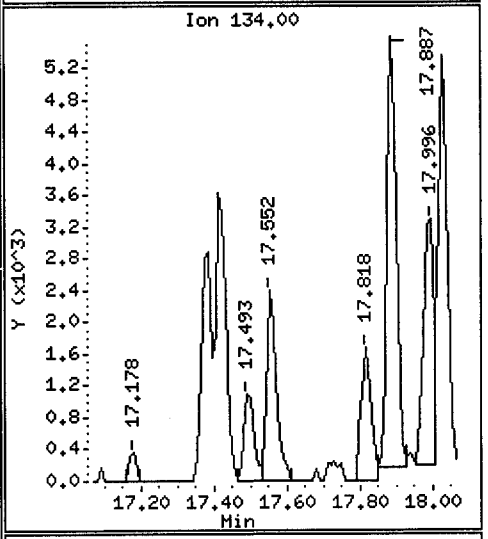
75 para-Isopropyl Toluene

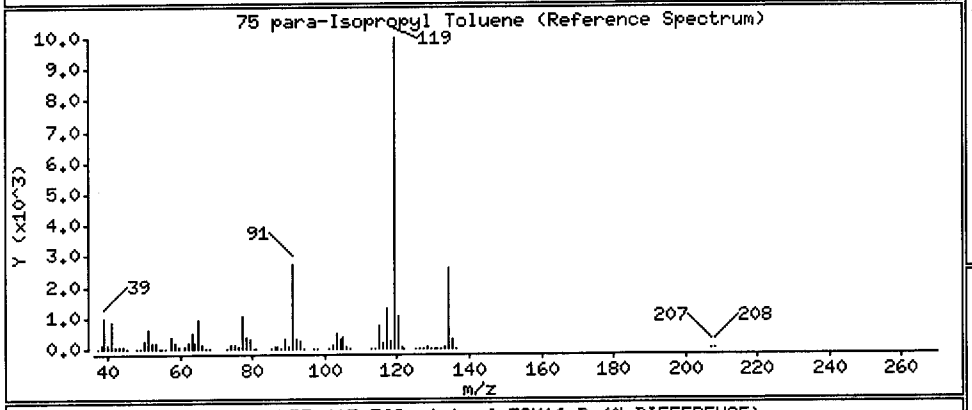
Concentration: 0.6866 UG/L

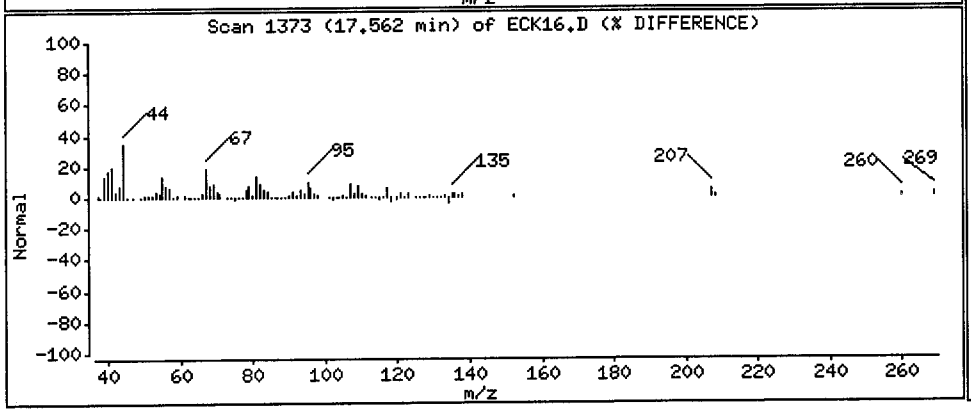


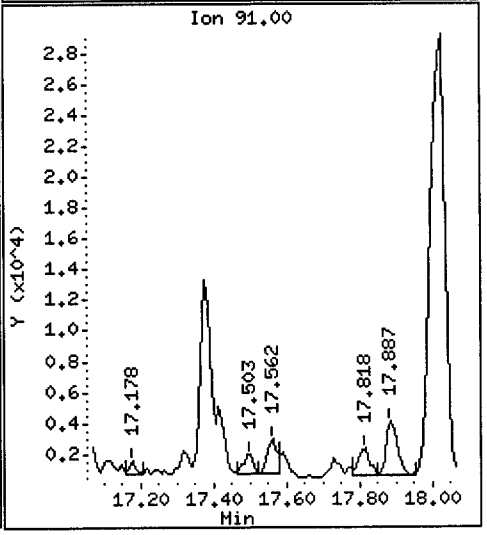












[n-Butylbenzene; 2.9 J]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

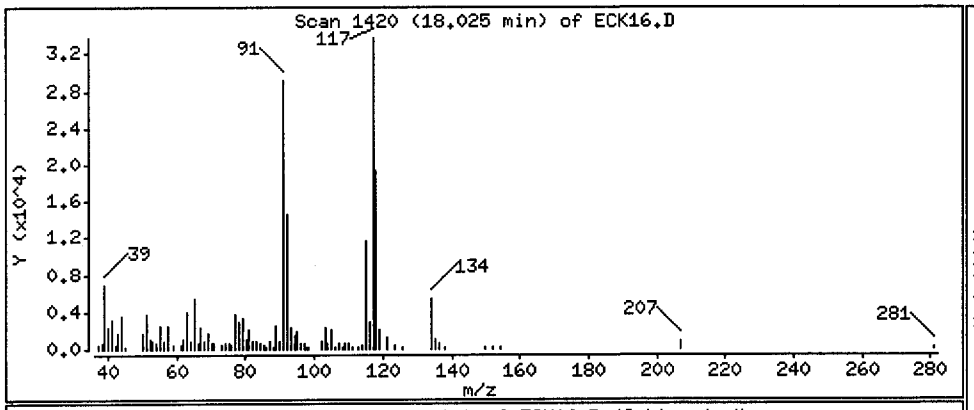
Operator: VOC

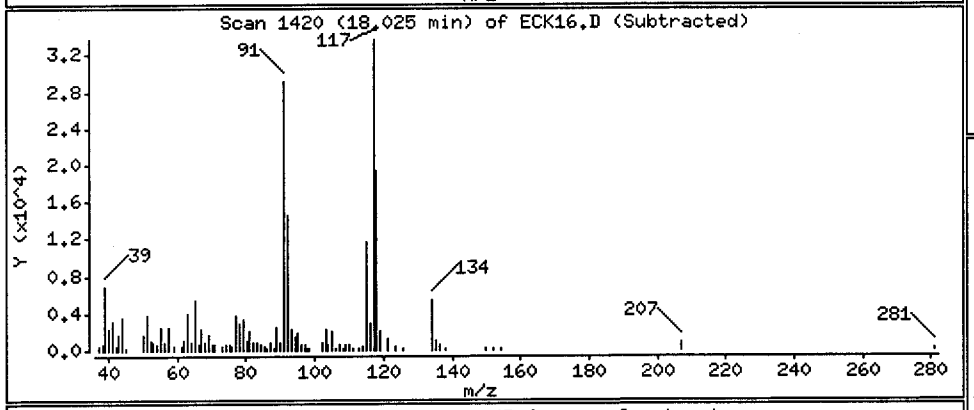
Column phase: RTX 624

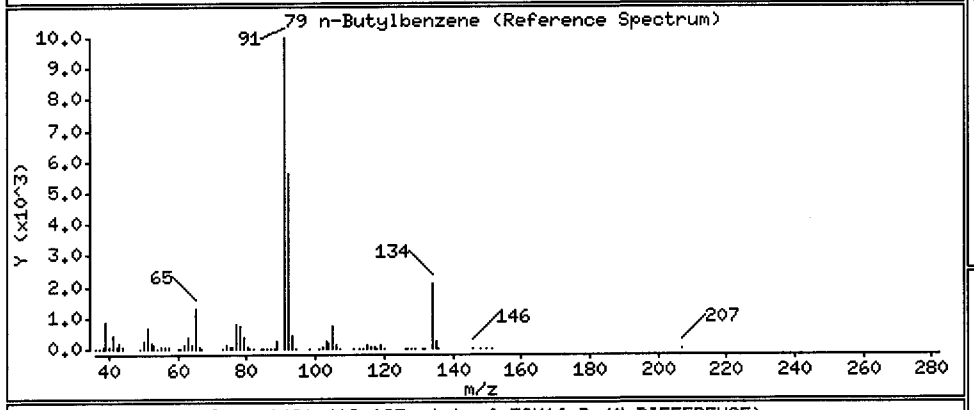
Column diameter: 0.25

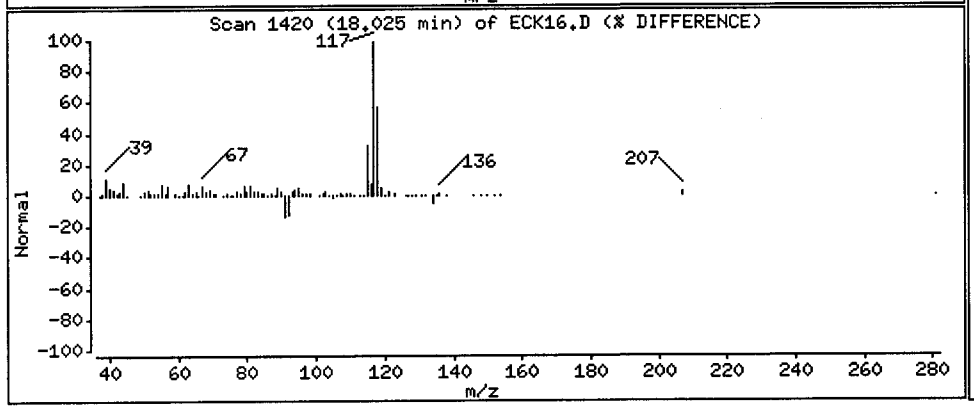
79 n-Butylbenzene

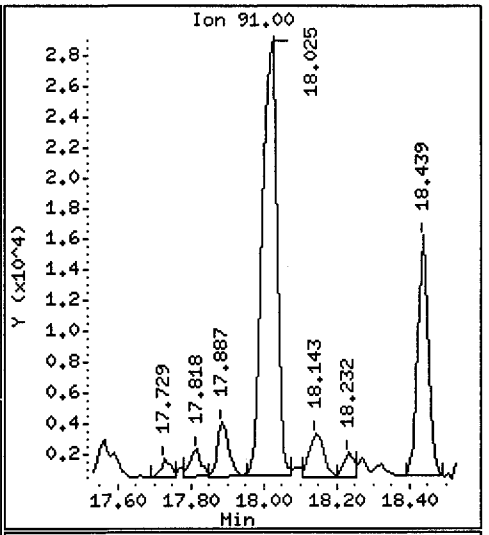
Concentration: 3.5175 UG/L

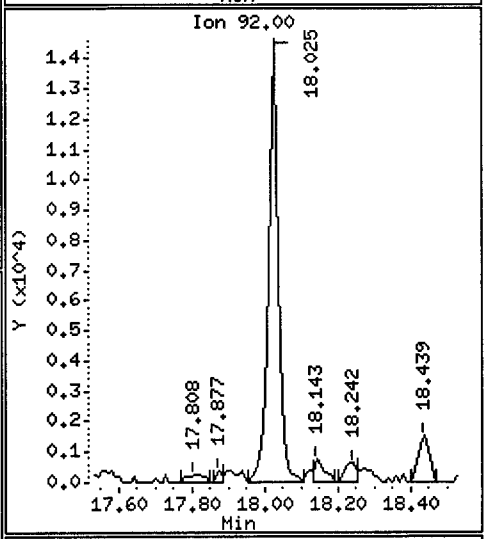


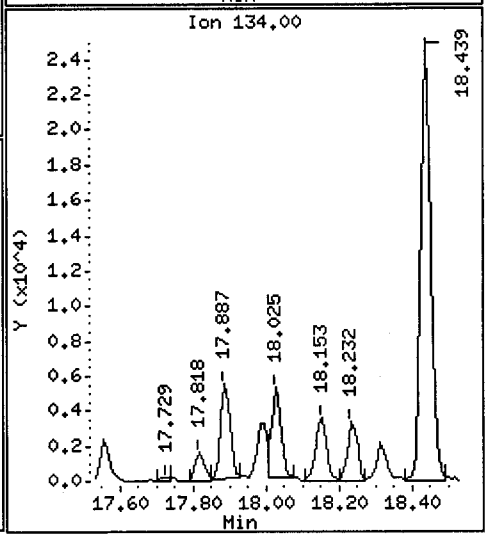












[Naphthalene; 0.99 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

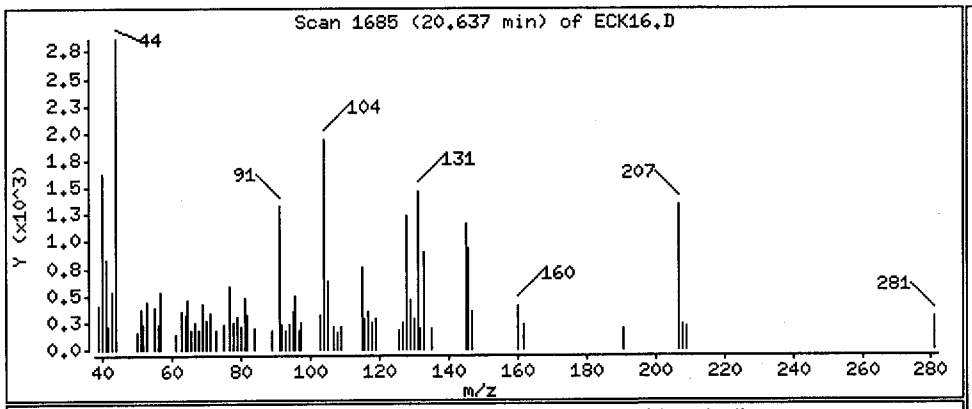
Operator: VOC

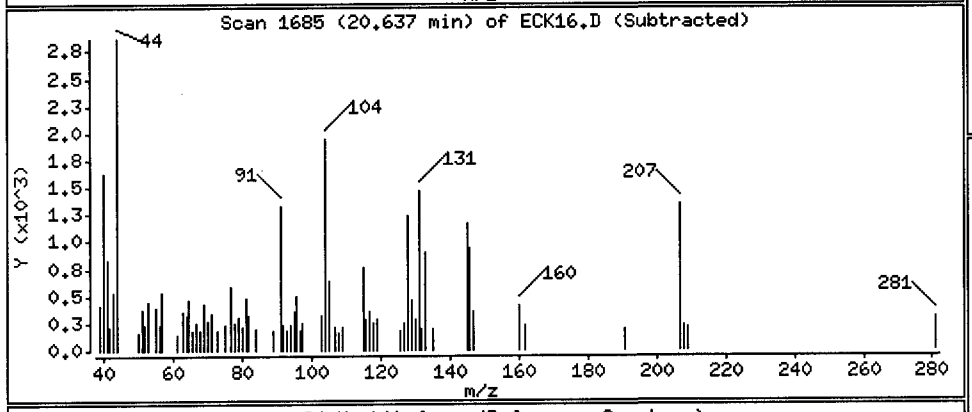
Column phase: RTX 624

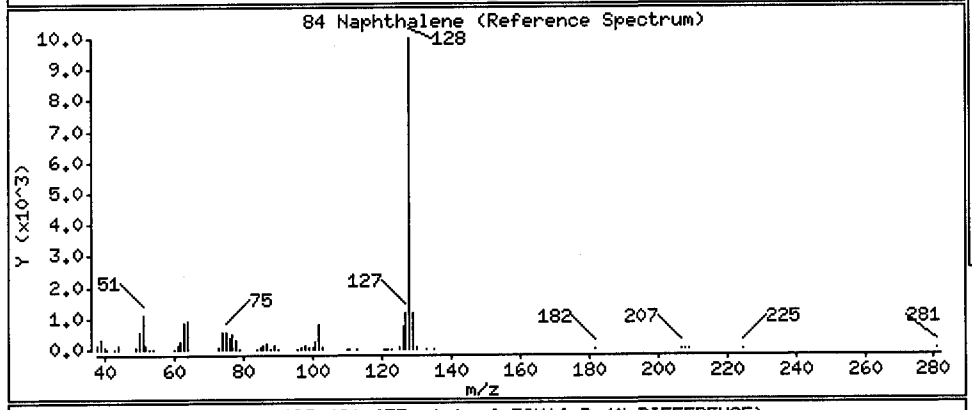
Column diameter: 0.25

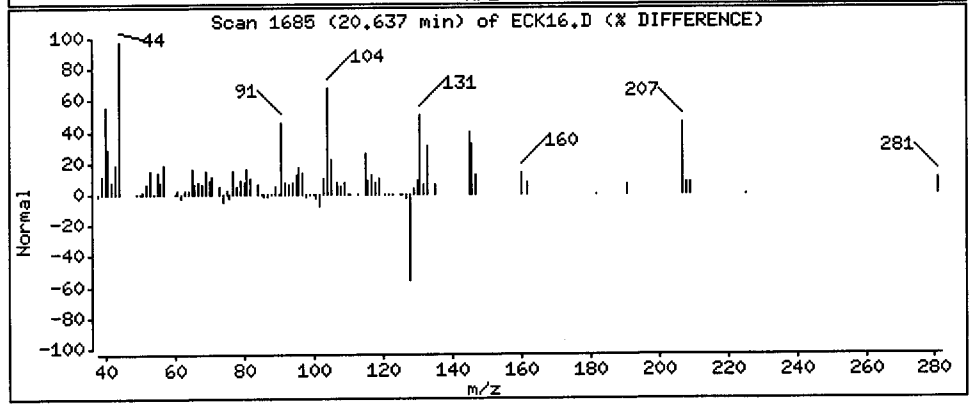
84 Naphthalene

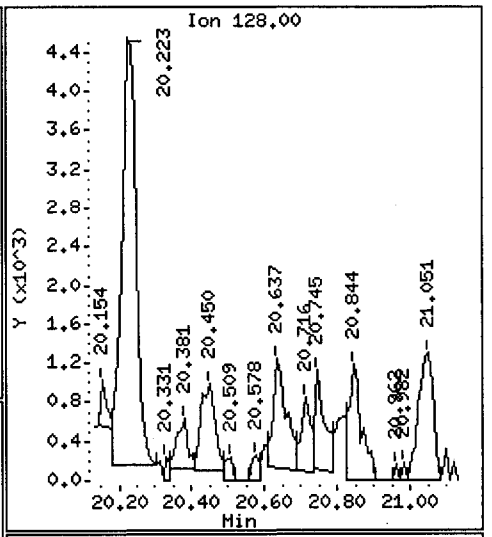
Concentration: 1.1825 UG/L

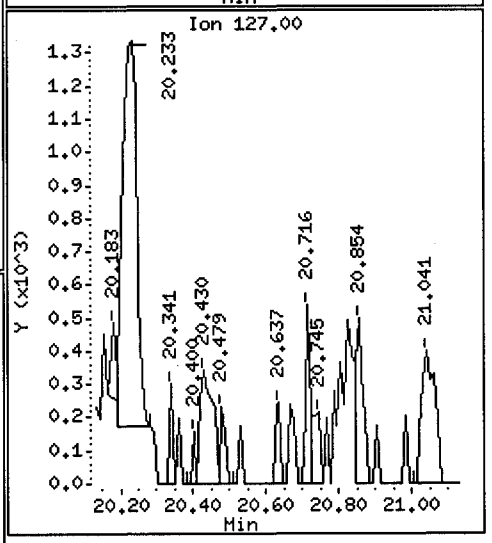












[1,2,3-Trichlorobenzene; 0.36 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK16.D

Date : 20-MAR-2008 16:30

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-004

Purge Volume: 5.0

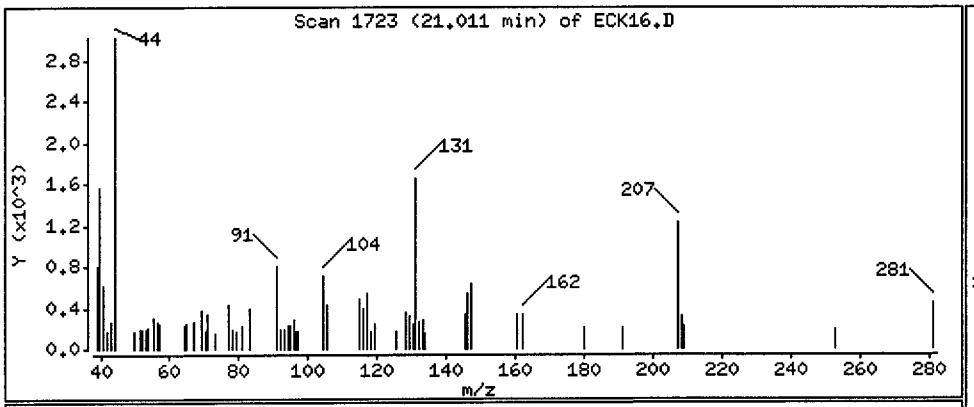
Operator: VOC

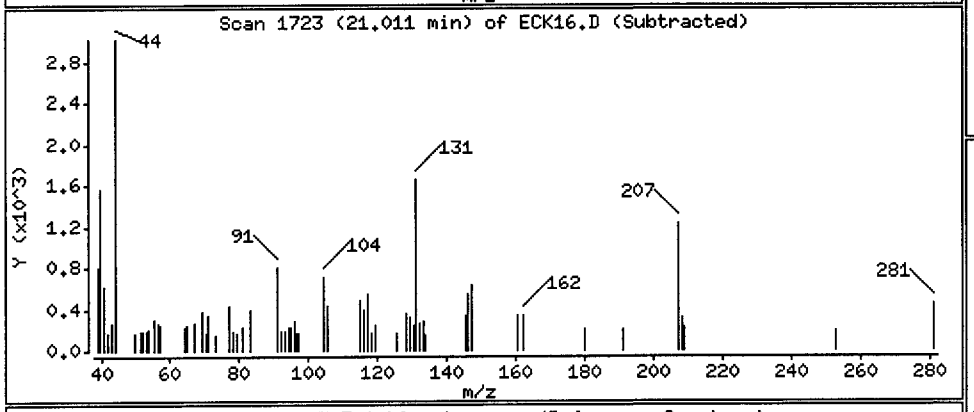
Column phase: RTX 624

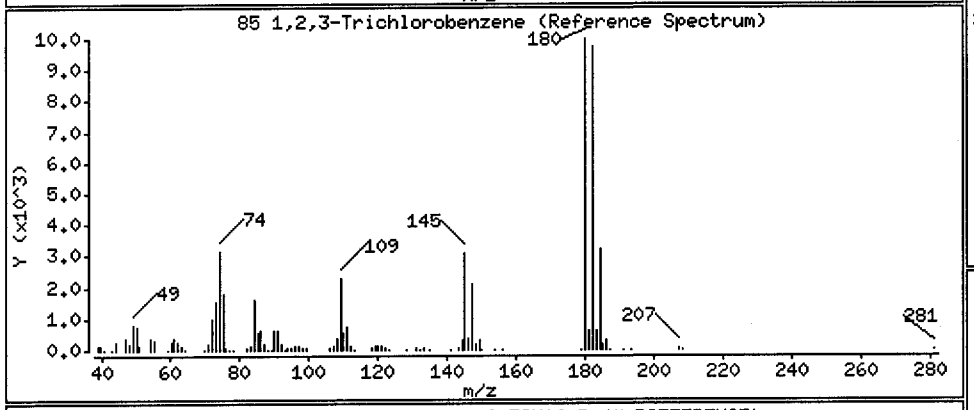
Column diameter: 0.25

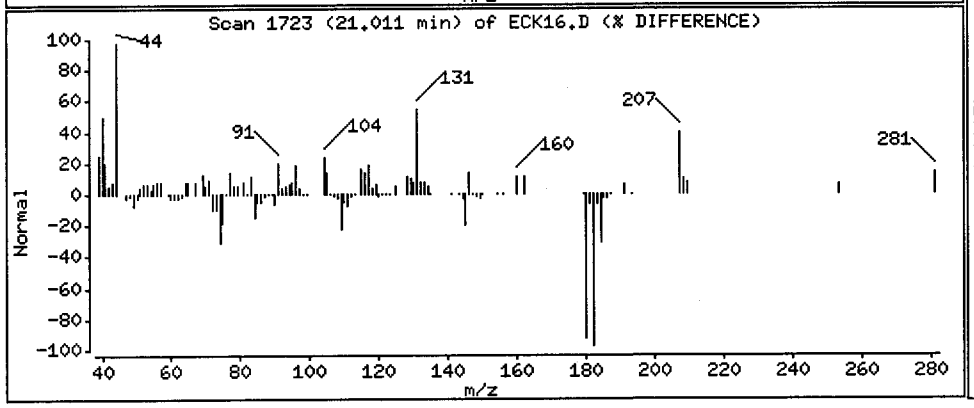
85 1,2,3-Trichlorobenzene

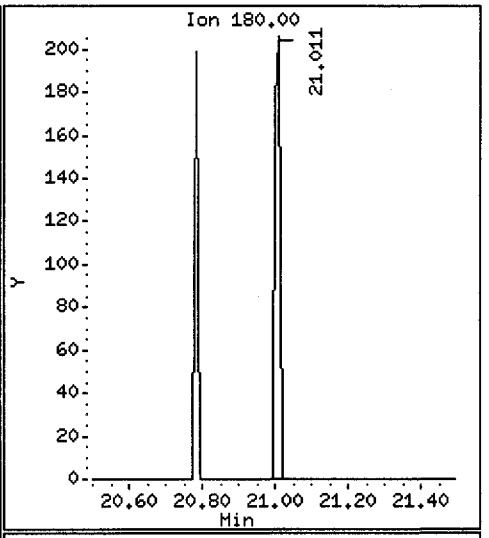
Concentration: 0.4266 UG/L

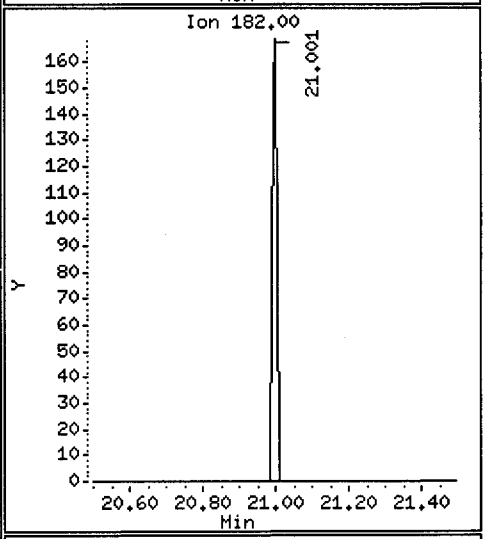


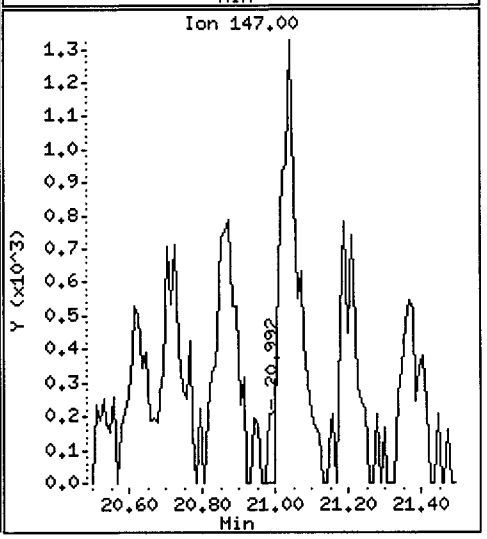












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst	: MSVOA04	Lab ID	: 202043-004 (M)	Client ID	: 1065EX310[7.0]
Seqnum	: 438117134015.1	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: dcl15	Batch	: 136236	Time	: 21-MAR-2008 15:35
Cal	: 438107113004	Caldate	: 14-MAR-2008	Caltype	: SOIL
IDF	: 25.0			Units	: ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	ND		250		c- v-
Chloromethane	ND		250		
Vinyl Chloride	ND		250		
Bromomethane	ND		250		
Chloroethane	ND		250		
Trichlorofluoromethane	ND		130		
Acetone	130 J		500		u
Freon 113	ND		130		
1,1-Dichloroethene	3.1 J		130		
Methylene Chloride	90 J		500	180	c+ **b***
Carbon Disulfide	ND		130		
MTBE	ND		130		
trans-1,2-Dichloroethene	ND		130		
Vinyl Acetate	ND		1300		
1,1-Dichloroethane	ND		130		
2-Butanone	74 J		250		
cis-1,2-Dichloroethene	ND		130		
2,2-Dichloropropane	ND		130		
Chloroform	ND		130		
Bromochloromethane	ND		130		
1,1,1-Trichloroethane	ND		130		
1,1-Dichloropropene	140	-0.306	130		x
Carbon Tetrachloride	190	-0.286	130		x
1,2-Dichloroethane	ND		130		
Benzene	ND		130		
Trichloroethene	ND		130		
1,2-Dichloropropane	5.2 J	0.099	130		x
Bromodichloromethane	ND		130		
Dibromomethane	2.6 J		130		
4-Methyl-2-Pentanone	ND		250		
cis-1,3-Dichloropropene	ND		130		
Toluene	ND		130		
trans-1,3-Dichloropropene	ND		130		
1,1,2-Trichloroethane	6.2 J		130		
2-Hexanone	ND		250		
1,3-Dichloropropane	ND		130		
Tetrachloroethene	ND		130		
Dibromochloromethane	ND		130		
1,2-Dibromoethane	ND		130		
Chlorobenzene	ND		130		
1,1,1,2-Tetrachloroethane	ND		130		
Ethylbenzene	ND		130		
m,p-Xylenes	ND		130		
o-Xylene	ND		130		
Styrene	ND		130		
Bromoform	ND		130		
Isopropylbenzene	ND		130		
1,1,2,2-Tetrachloroethane	ND		130		
1,2,3-Trichloropropane	3.0 J	-0.078	130		x

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	ND		130		
Bromobenzene	ND		130		
1,3,5-Trimethylbenzene	2.9 J	0.444	130		x
2-Chlorotoluene	ND		130		
4-Chlorotoluene	ND		130		
tert-Butylbenzene	2.6 J	0.395	130	18	x
1,2,4-Trimethylbenzene	2.8 J		130	14	
sec-Butylbenzene	ND		130	16	
para-Isopropyl Toluene	ND		130	17	
1,3-Dichlorobenzene	ND		130		
1,4-Dichlorobenzene	ND		130		
n-Butylbenzene	ND		130	14	u
1,2-Dichlorobenzene	ND		130		
1,2-Dibromo-3-Chloropropane	ND		130		
1,2,4-Trichlorobenzene	ND		130		
Hexachlorobutadiene	ND		130		c-
Naphthalene	ND		130	24	
1,2,3-Trichlorobenzene	ND		130		

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	1250	1492	119	78-126	
1,2-Dichloroethane-d4	1250	1520	122	76-137	
Toluene-d8	1250	1363	109	80-120	
Bromofluorobenzene	1250	1165	93	80-121	
Trifluorotoluene	1250	1147	92	52-145	

ISTD (ICAL dce12)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	402255	416461	3.53	10.00	9.96	-0.04
1,4-Difluorobenzene	600047	574243	-4.30	11.12	11.08	-0.04
Chlorobenzene-d5	504409	590771	17.12	15.22	15.20	-0.02
1,4-Dichlorobenzene-d4	272365	387060	42.11	17.95	17.94	-0.01

BO 03/21/08 [Acetone]: Worked up for this analyte.

BO 03/21/08 : See file ecl11 for methanol prep blank.

BO 03/21/08 : Sample ID fixed in LIMS

MJD 03/21/08 [n-Butylbenzene]: Worked up for this analyte.

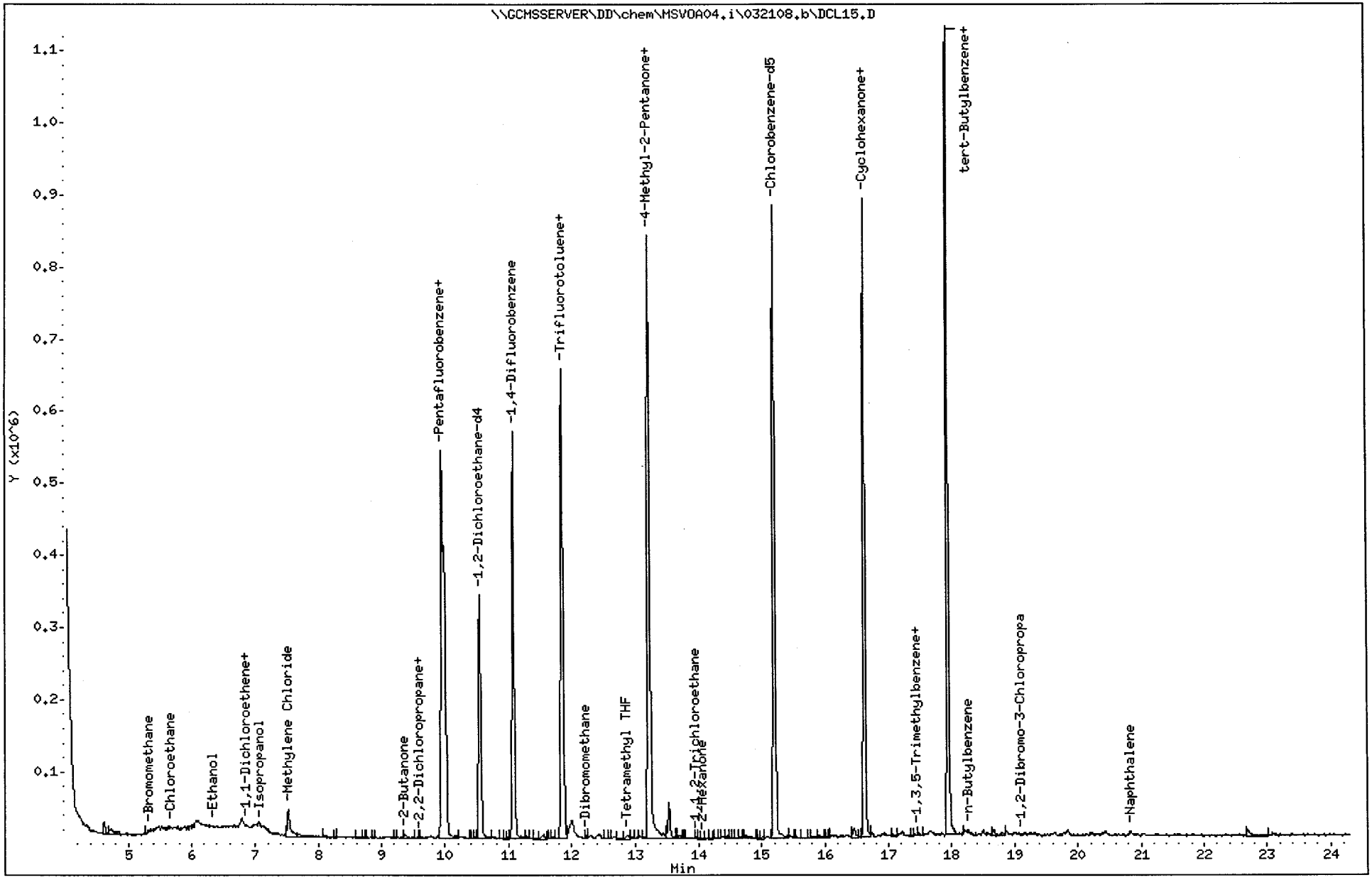
(not in upper half)

BO: 03/21/08 MJD: 03/21/08 ACM: 03/21/08

+=high bias -=low bias b=noncompliant c=CCV u=use v=ICV x=false positive

438117134015.1

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D
Date : 21-MAR-2008 15:35
Client ID: DYNA P&T
Instrument: MSVOA04.i
Sample Info: S,202043-003,136236,
Purge Volume: 5.0
Operator: VOC
Column phase: RTx Volatiles
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D
Report Date: 21-Mar-2008 16:13

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-MAR-2008 15:35 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : S,202043-003,136236,
Misc Info : 0.2/5,S8493,1000:0.2/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\826GOX4S.m
Meth Date : 21-Mar-2008 14:22 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 18:54 Cal File: DCE15.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
4	Bromomethane	94	5.331	5.561	(0.535)	1782	0.11283	0.1128
5	Chloroethane	64	5.686	5.709	(0.571)	489	0.11542	0.1154
7	Ethanol	45	6.337	6.350	(0.636)	191	1.79901	1.7990
9	1,1-Dichloroethene	96	6.860	6.863	(0.689)	640	0.12327	0.1232
10	Acetone	43	6.998	6.981	(0.703)	15676	5.21936	5.2193
11	Isopropanol	45	7.087	7.070	(0.712)	151	0.23209	0.2320
13	Methylene Chloride	84	7.531	7.602	(0.756)	23009	3.59280	3.5927
21	2-Butanone	43	9.375	9.377	(0.942)	10758	2.97878	2.9787
22	2,2-Dichloropropane	77	9.552	9.367	(0.959)	938	0.11527	0.1152
25	Tetrahydrofuran	42	9.759	9.761	(0.980)	1026	0.50334	0.5033
* 27	Pentafluorobenzene	168	9.957	10.007	(1.000)	416461	50.0000	
28	Dibromofluoromethane	113	9.996	10.037	(1.004)	282870	59.6735	59.6734
30	Carbon Tetrachloride	117	9.957	10.274	(0.899)	42168	7.52830	7.5283
31	1,1-Dichloropropene	75	9.957	10.293	(0.899)	36860	5.40538	5.4053
32	1,2-Dichloroethane-d4	65	10.548	10.589	(0.952)	308685	60.8070	60.8069
* 36	1,4-Difluorobenzene	114	11.081	11.121	(1.000)	574243	50.0000	

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D
Report Date: 21-Mar-2008 16:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	38 Trifluorotoluene	146	11.860	11.900	(1.070)	362672	45.8719	45.8718
	39 1,2-Dichloropropane	63	11.998	11.930	(1.083)	1092	0.20680	0.2067
	40 Dibromomethane	93	12.047	12.127	(1.087)	394	0.10231	0.1023
	43 Tetramethyl THF	43	12.876	12.876	(1.162)	1855	0.14719	0.1471
	45 4-Methyl-2-Pentanone	43	13.231	13.073	(1.194)	4935	0.70047	0.7004
	46 Toluene-d8	98	13.231	13.261	(1.194)	651159	54.5359	54.5358
	49 1,1,2-Trichloroethane	85	13.941	13.961	(1.258)	607	0.24810	0.2480
	51 2-Hexanone	43	14.089	14.207	(0.927)	849	0.13840	0.1383
*	55 Chlorobenzene-d5	117	15.203	15.223	(1.000)	590771	50.0000	
	64 Cyclohexanone	55	16.623	16.613	(0.926)	2718	1.66799	1.6679
	65 Bromofluorobenzene	95	16.623	16.642	(0.926)	338968	46.5878	46.5877
	69 1,2,3-Trichloropropane	75	16.781	16.879	(0.935)	917	0.11937	0.1193
	71 1,3,5-Trimethylbenzene	105	17.461	17.036	(0.973)	2472	0.11404	0.1140
	73 tert-Butylbenzene	119	17.787	17.411	(0.991)	1985	0.10306	0.1030
	74 1,2,4-Trimethylbenzene	105	17.461	17.470	(0.973)	2472	0.11163	0.1116
*	78 1,4-Dichlorobenzene-d4	152	17.945	17.953	(1.000)	387060	50.0000	
	80 n-Butylbenzene	91	18.260	18.269	(1.018)	2687	0.10664	0.1066
	82 1,2-Dibromo-3-Chloropropane	75	19.108	19.383	(1.065)	215	0.10177	0.1017
	85 Naphthalene	128	20.834	20.842	(1.161)	7850	0.34360	0.3436

[1,1-Dichloroethene; 3.1 J]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

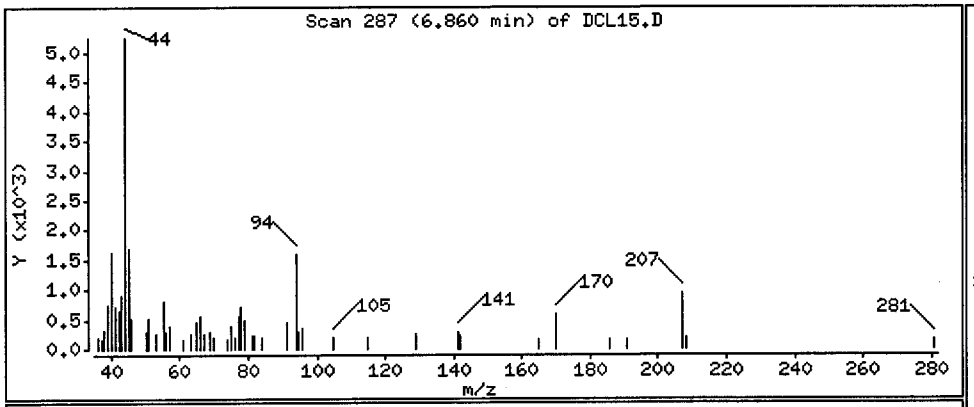
Operator: VOC

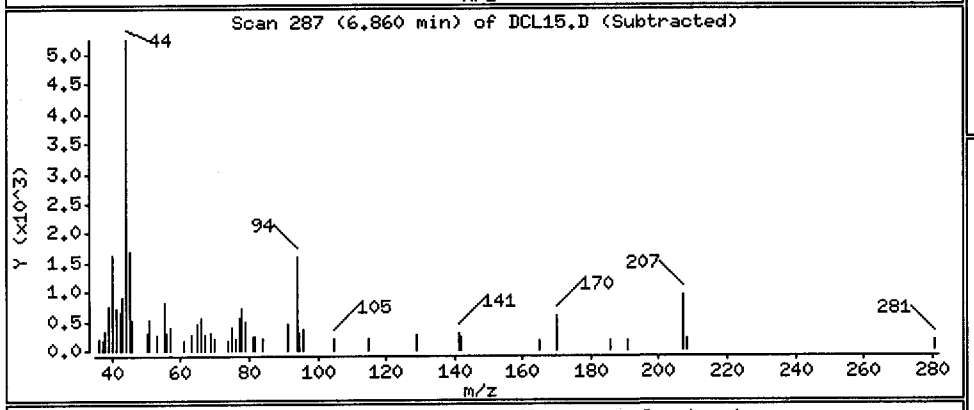
Column phase: RTx Volatiles

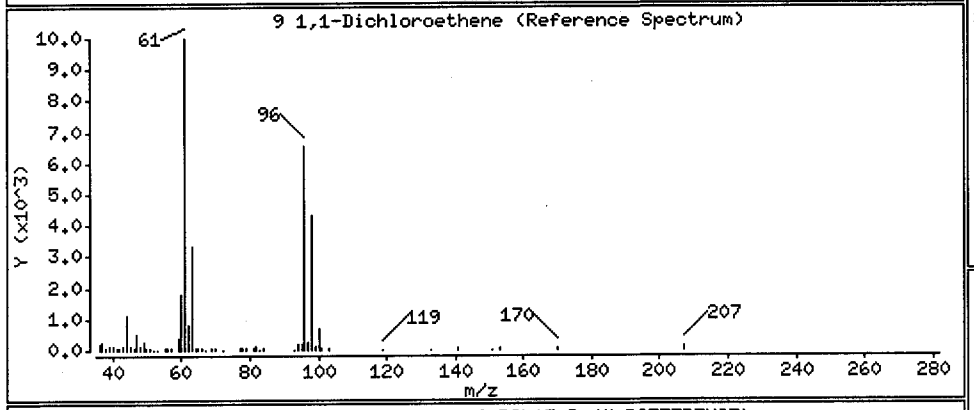
Column diameter: 0.32

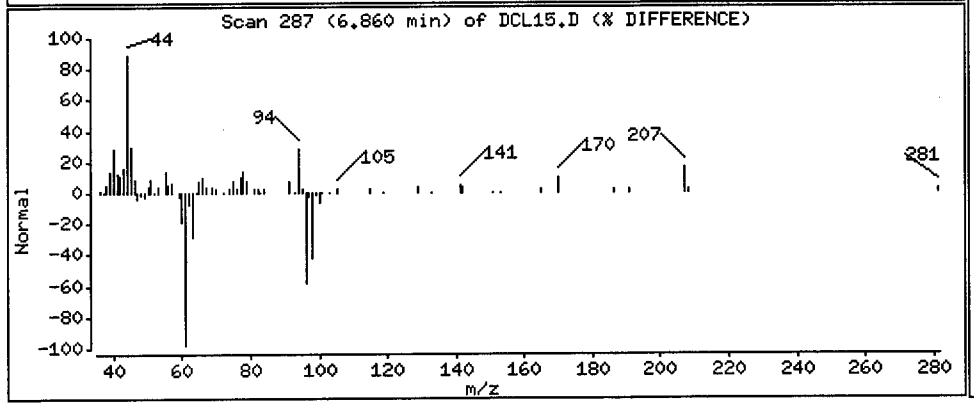
9 1,1-Dichloroethene

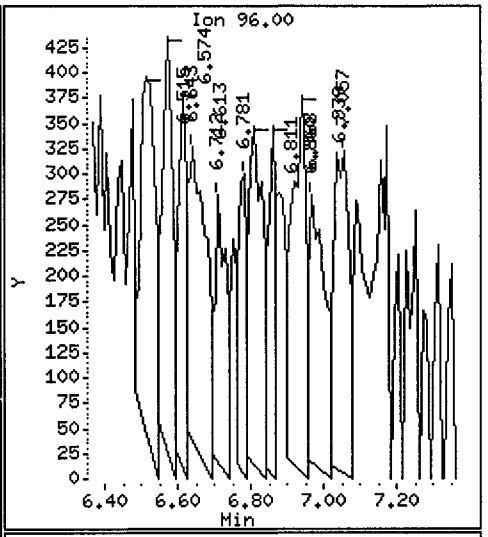
Concentration: 0.1232 UG/L

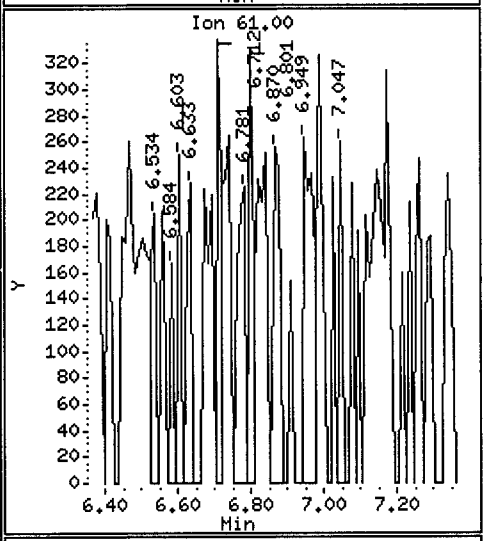


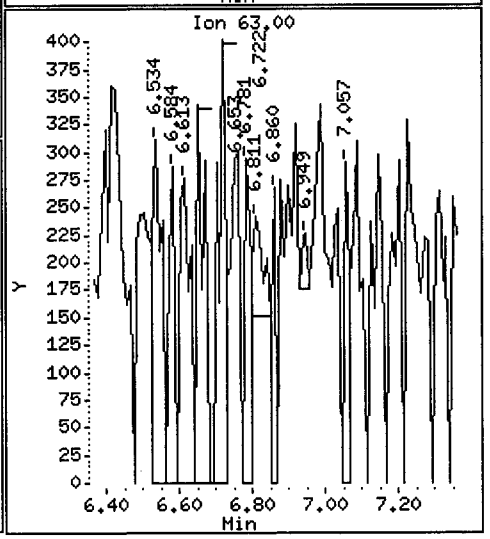












[Acetone; 130 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

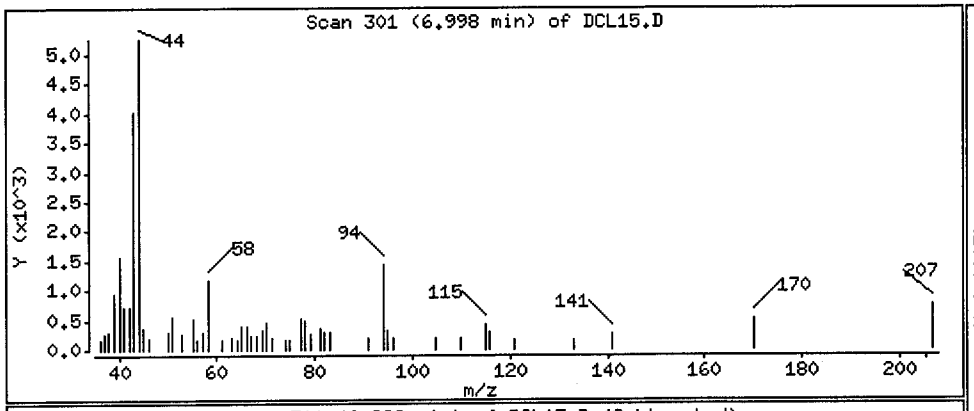
Operator: VOC

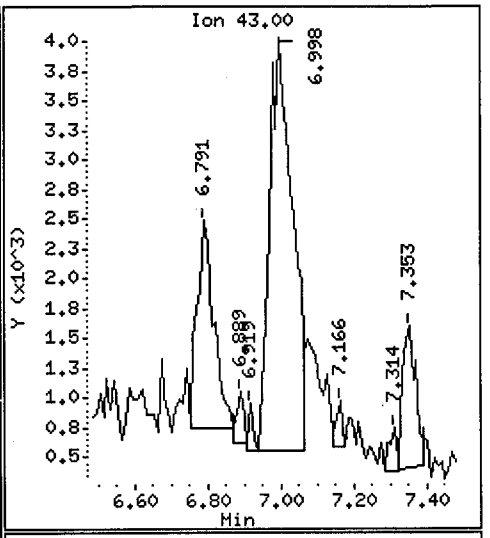
Column phase: RTx Volatiles

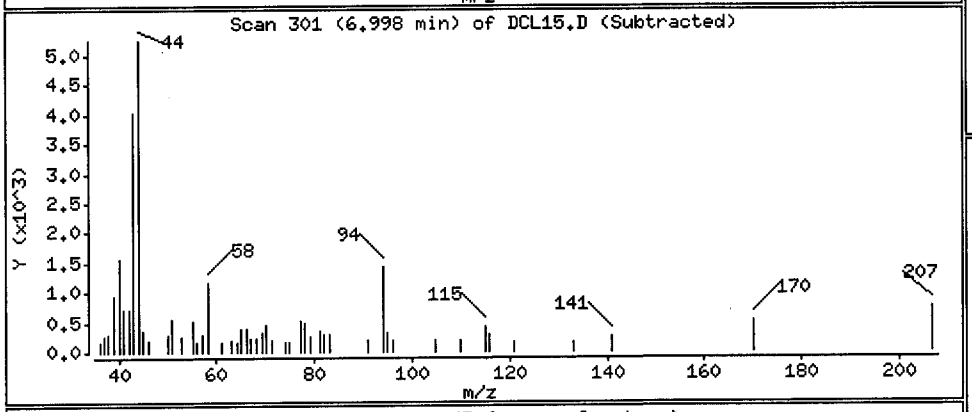
Column diameter: 0.32

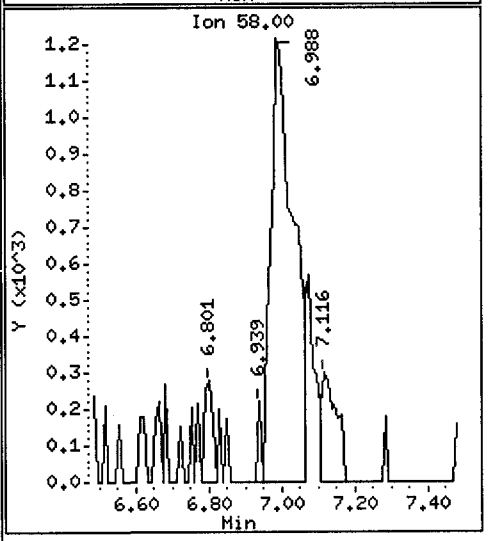
10 Acetone

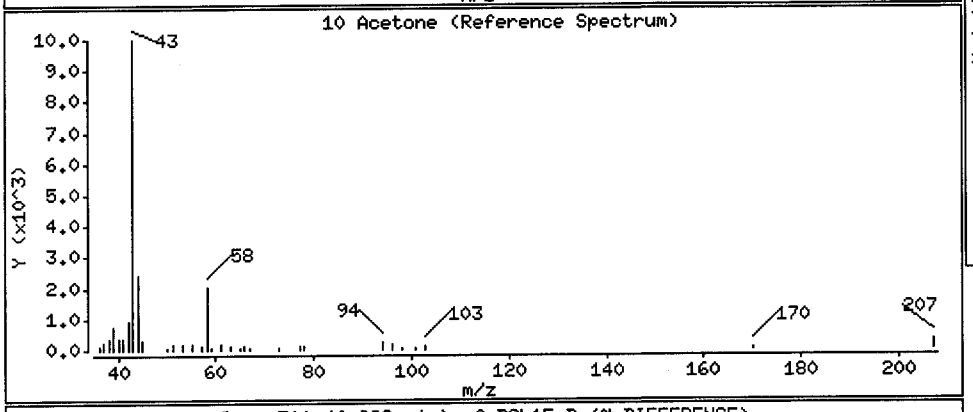
Concentration: 5.2193 UG/L

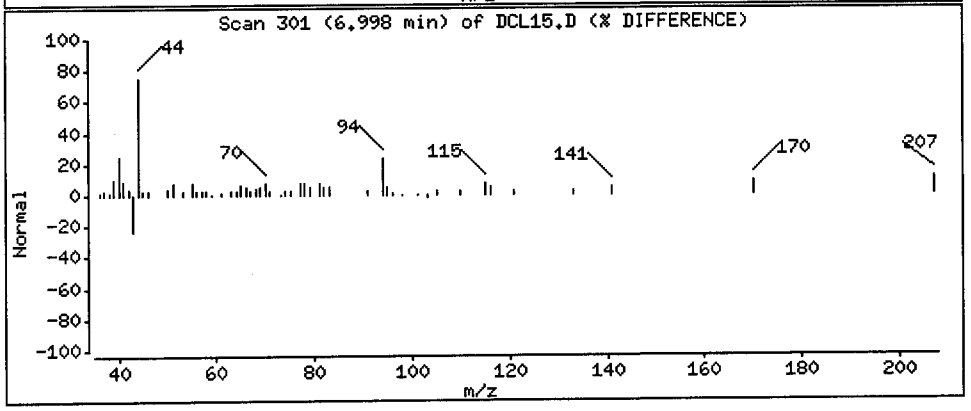












[Methylene Chloride; 90 J]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

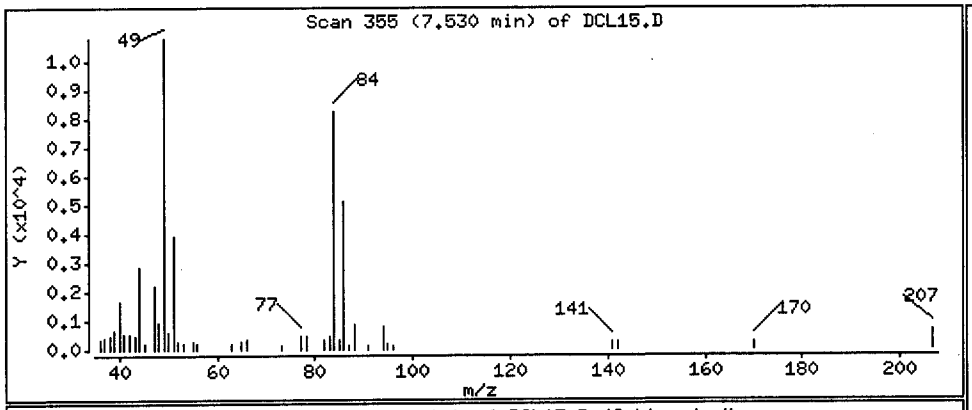
Operator: VOC

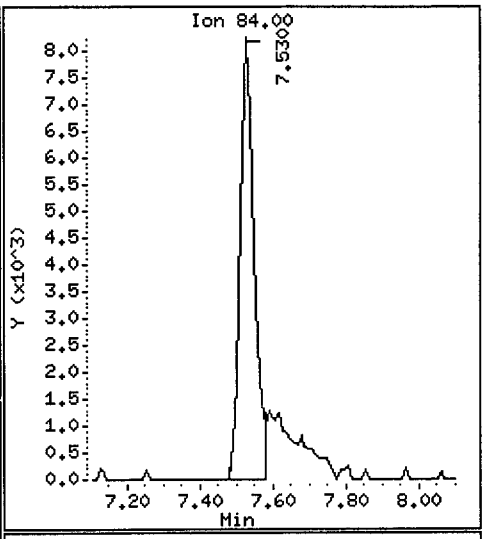
Column phase: RTx Volatiles

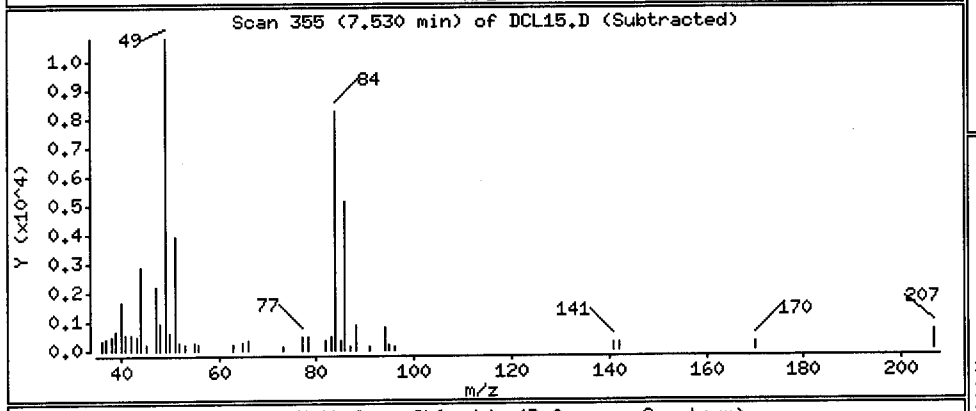
Column diameter: 0.32

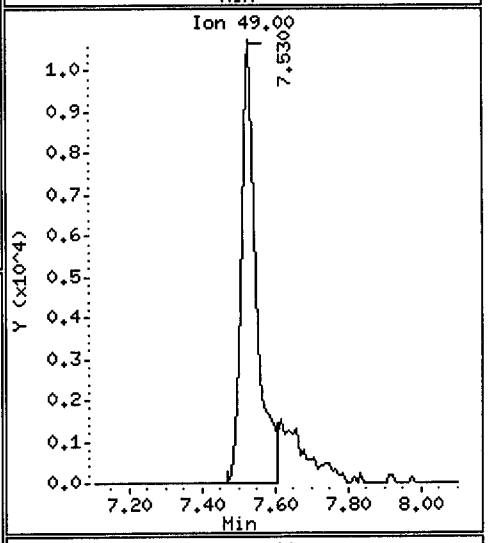
13 Methylene Chloride

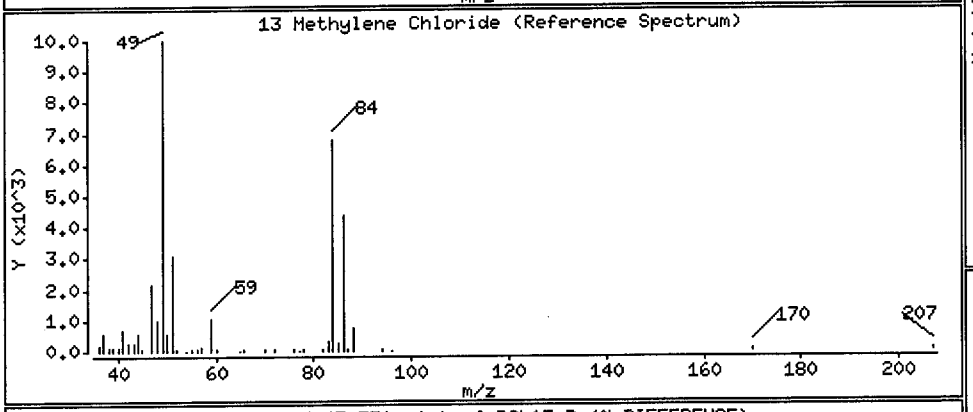
Concentration: 3.5927 UG/L

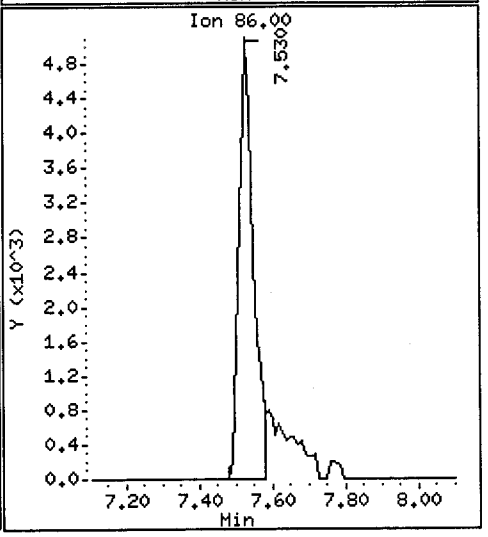


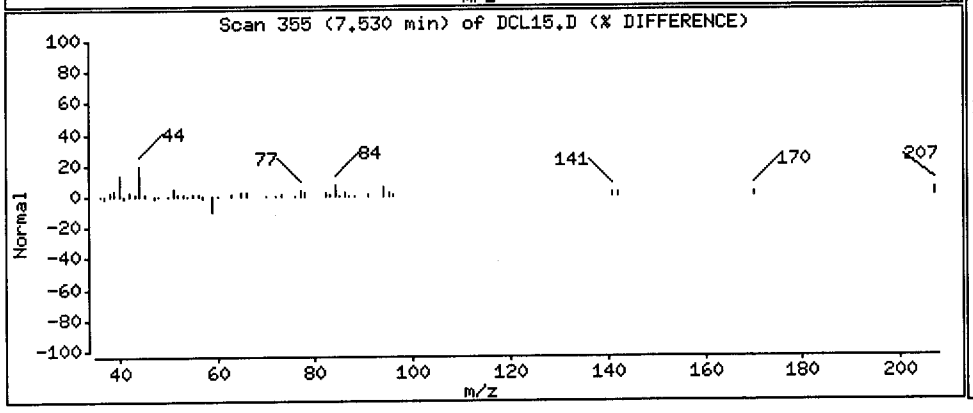












[2-Butanone; 74 J]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

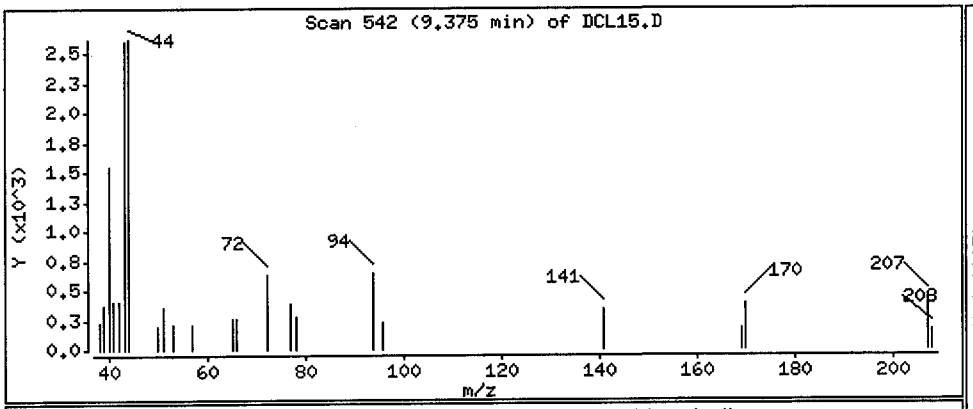
Operator: VOC

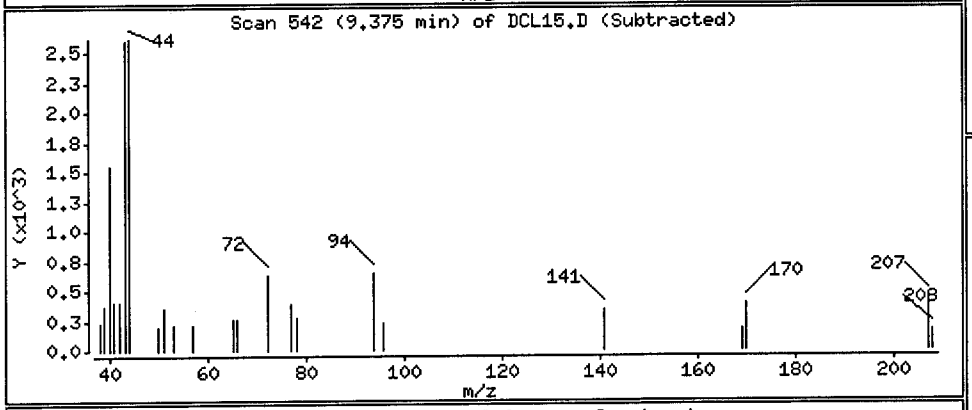
Column phase: RTx Volatiles

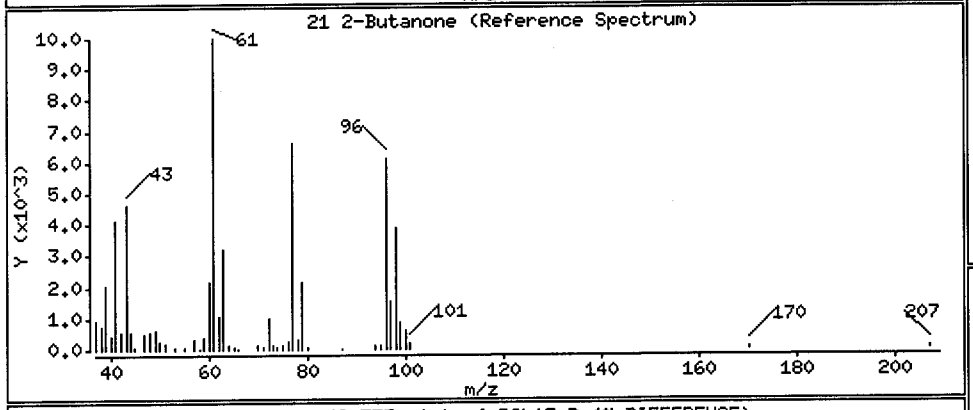
Column diameter: 0.32

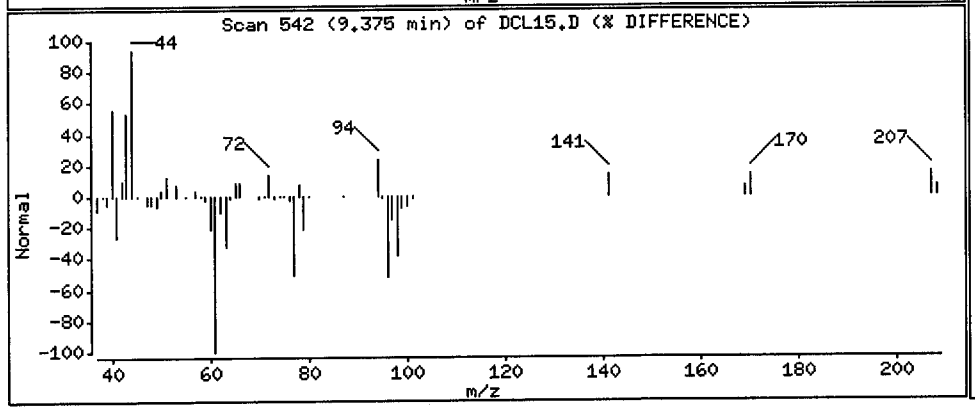
21 2-Butanone

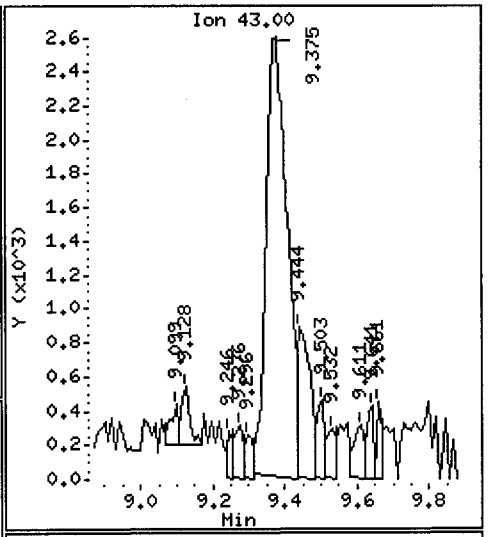
Concentration: 2.9787 UG/L

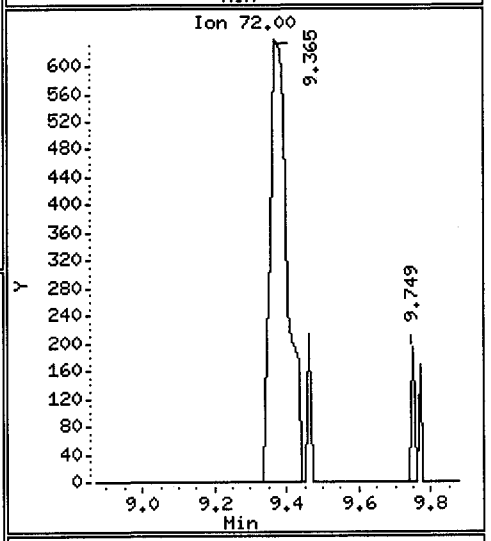


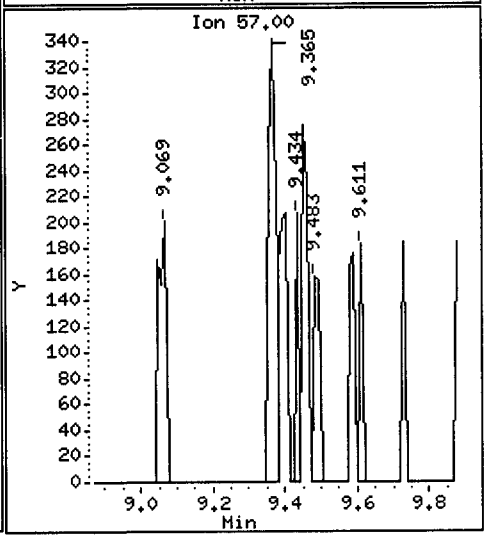












[Carbon Tetrachloride; 190; FP]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

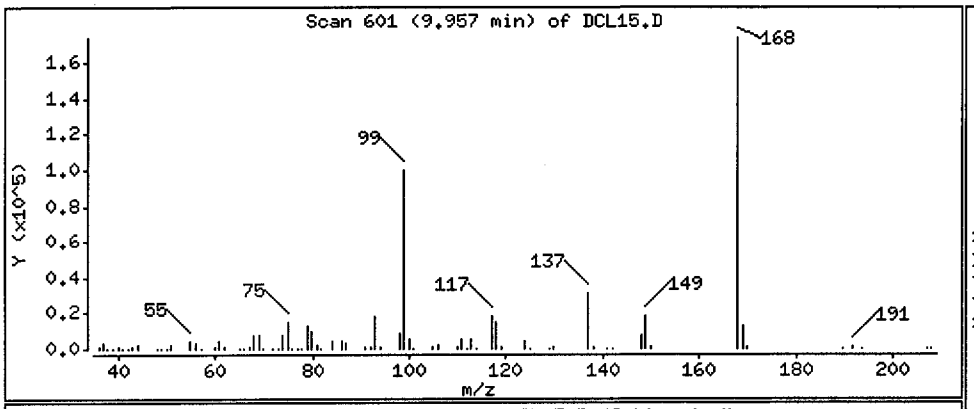
Operator: VOC

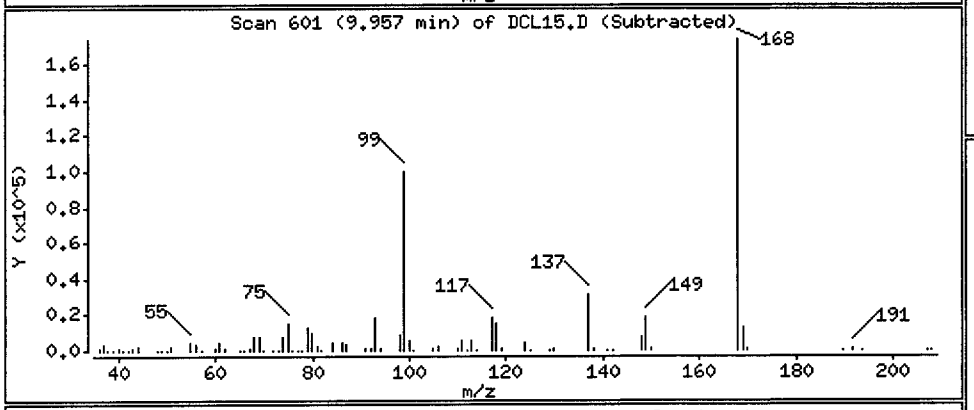
Column phase: RTx Volatiles

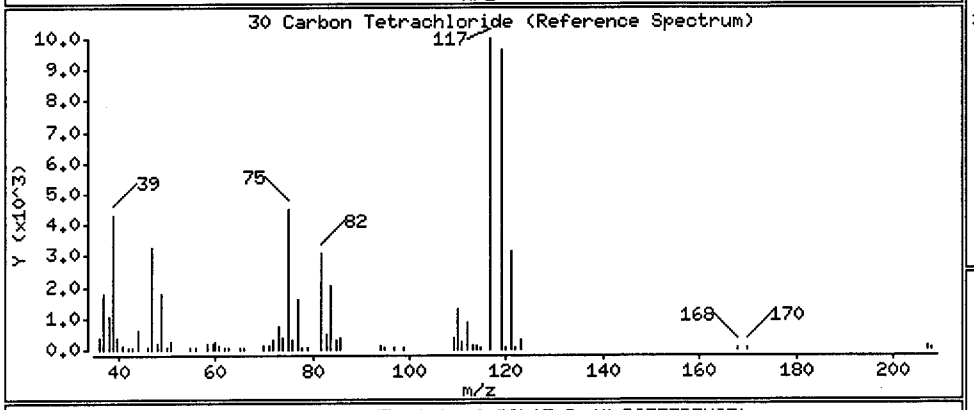
Column diameter: 0.32

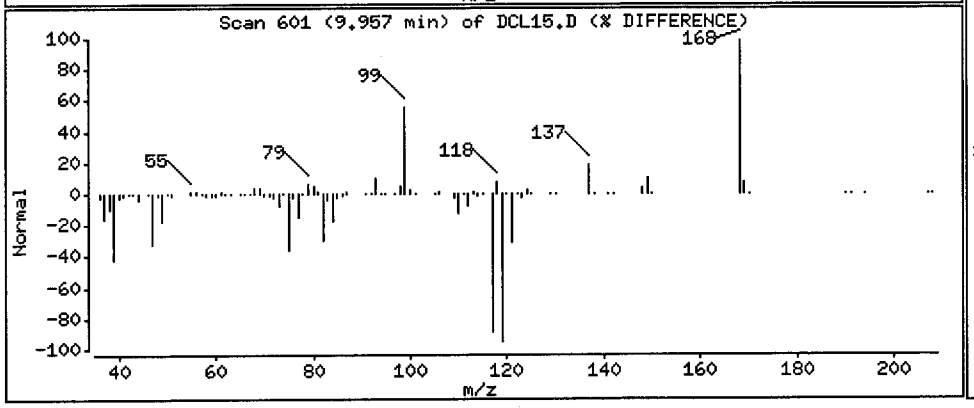
30 Carbon Tetrachloride

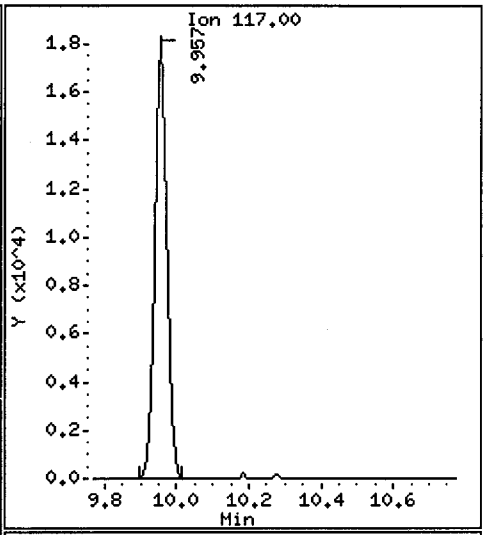
Concentration: 7.5283 UG/L

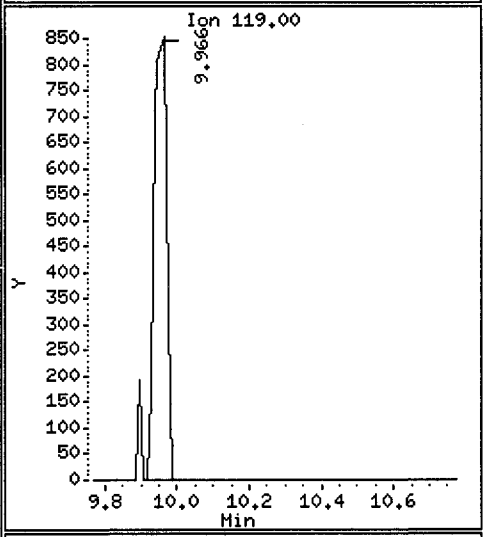


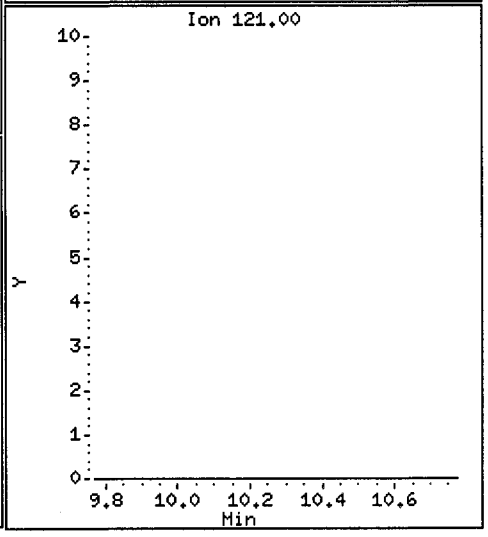












[1,1-Dichloropropene; 140; FP]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

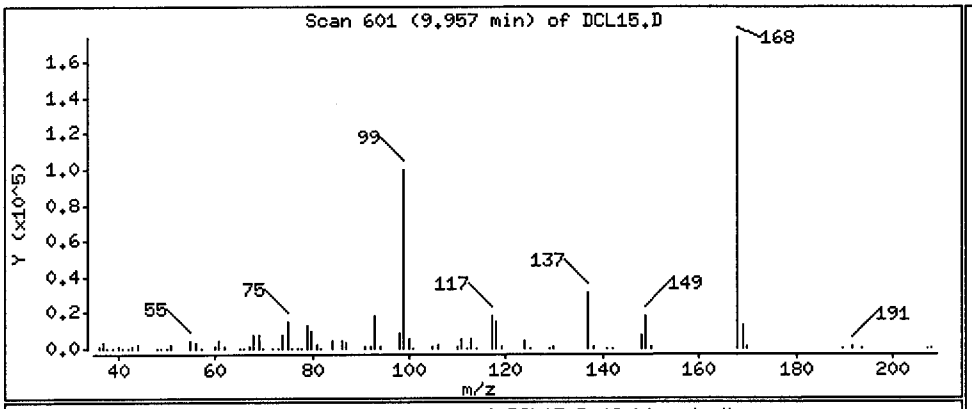
Operator: VOC

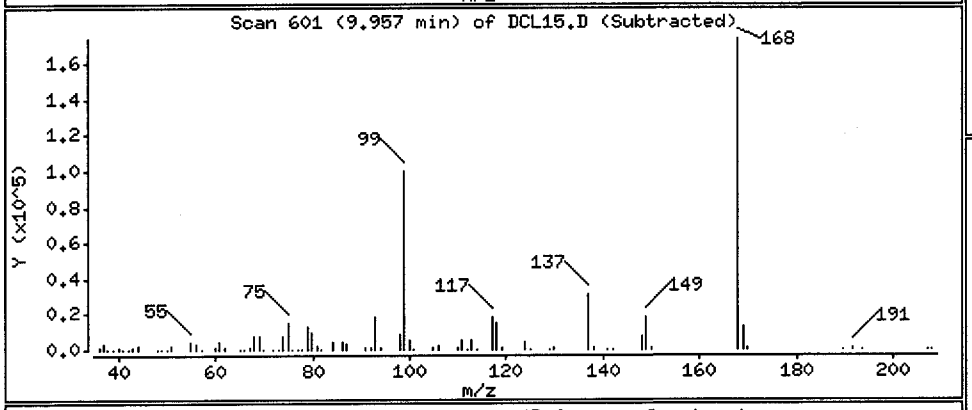
Column phase: RTx Volatiles

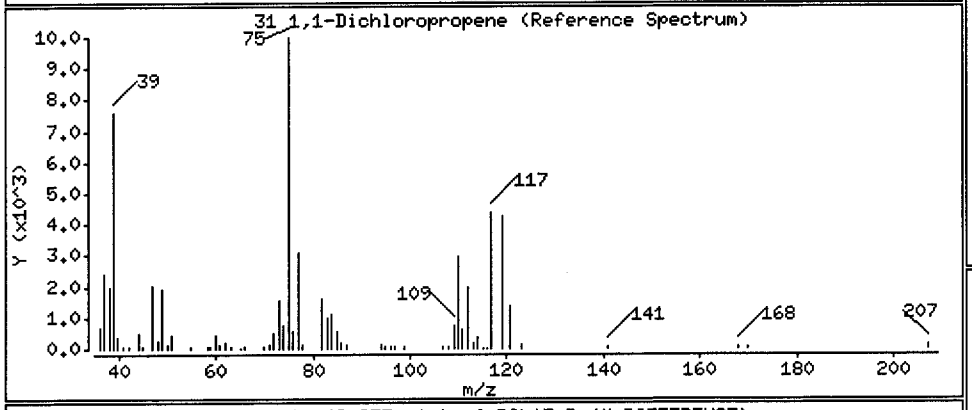
Column diameter: 0.32

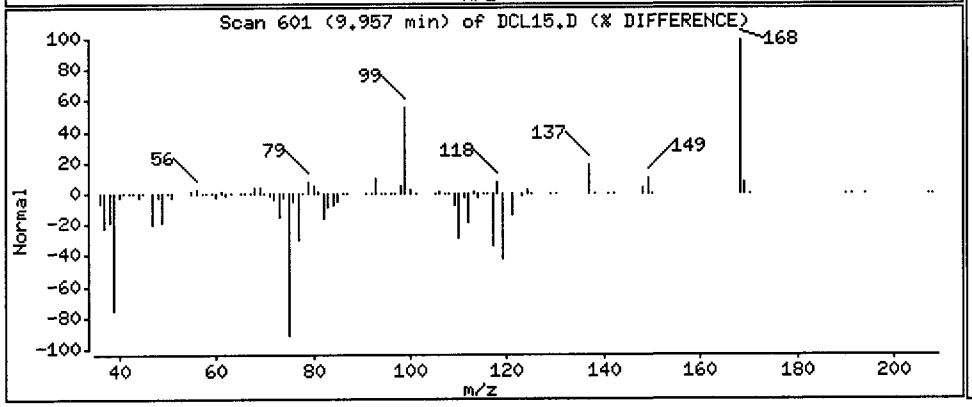
31 1,1-Dichloropropene

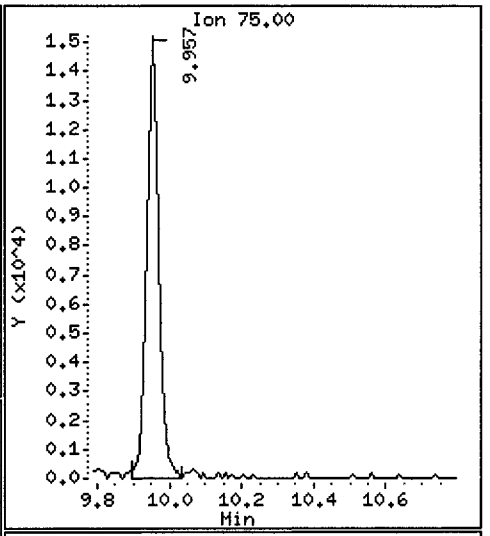
Concentration: 5.4053 UG/L

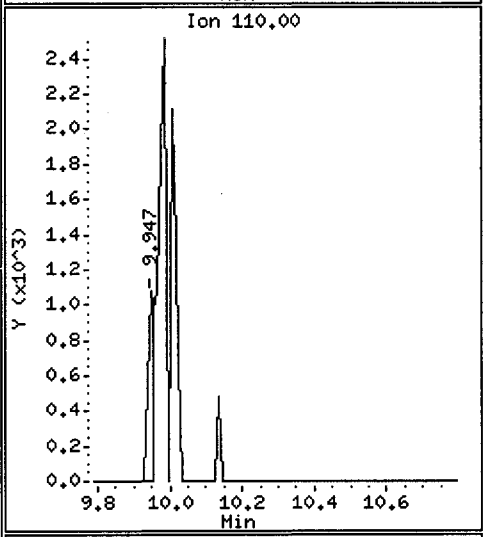


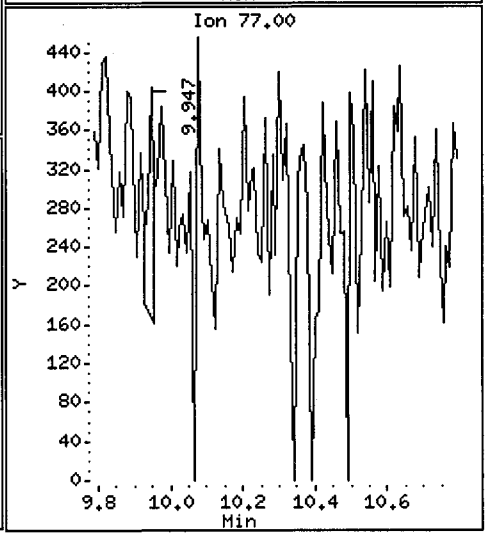












[1,2-Dichloropropane; 5.2 J; FP]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

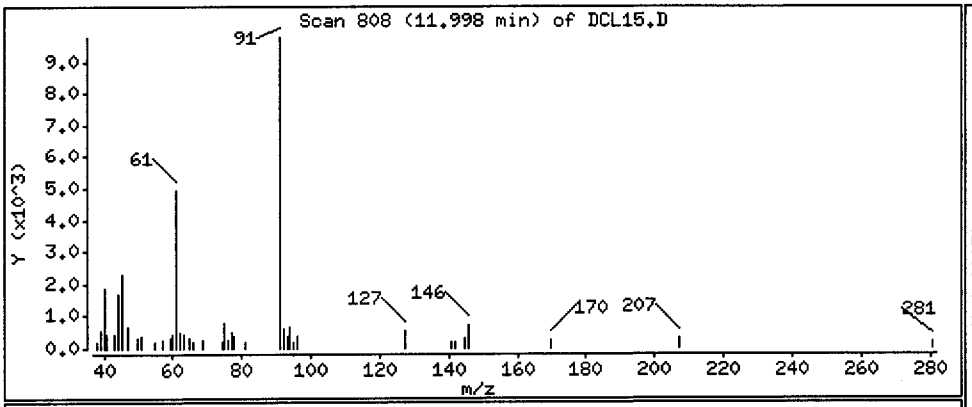
Operator: VOC

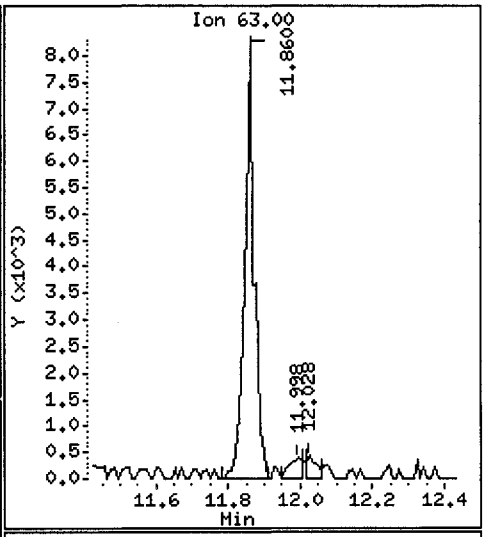
Column phase: RTx Volatiles

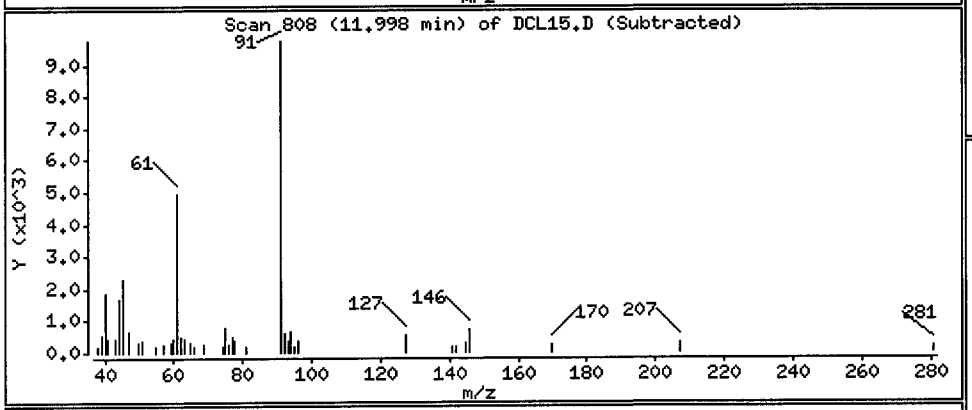
Column diameter: 0.32

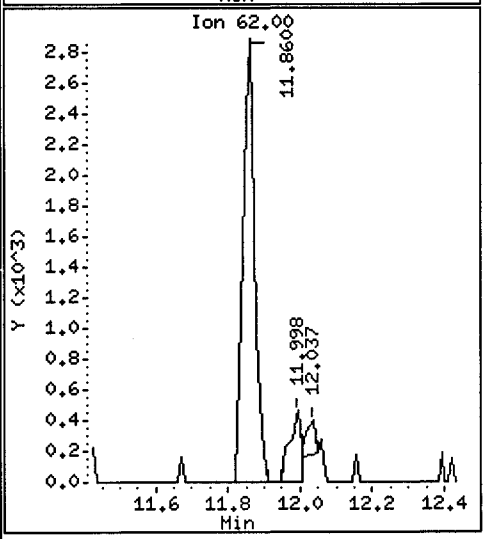
39 1,2-Dichloropropane

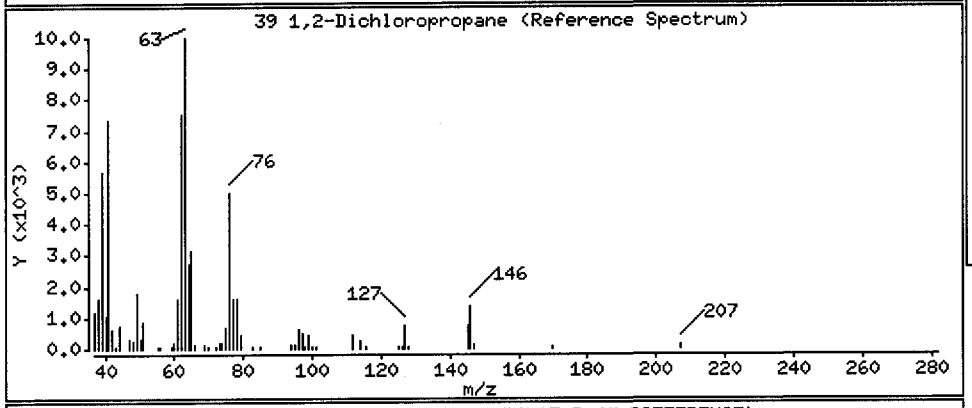
Concentration: 0.2067 UG/L

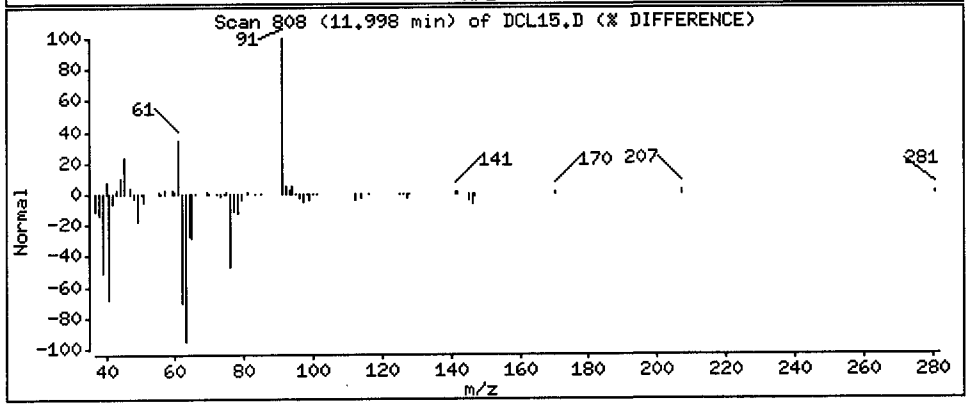












[Dibromomethane; 2.6 J]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

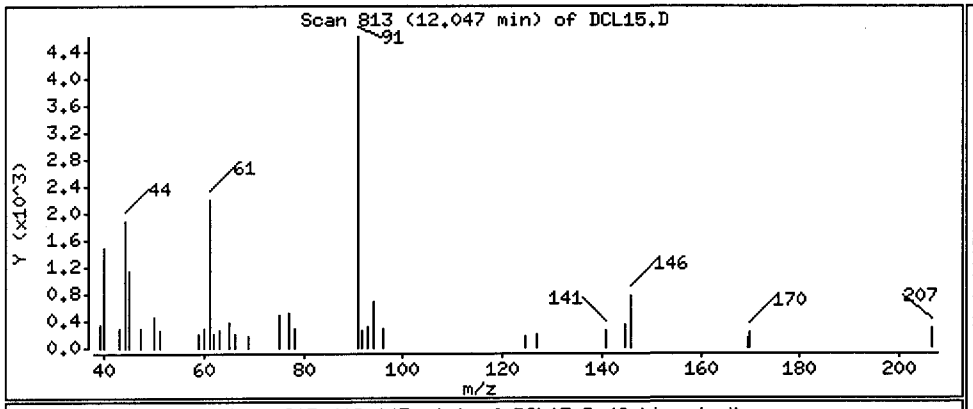
Operator: VOC

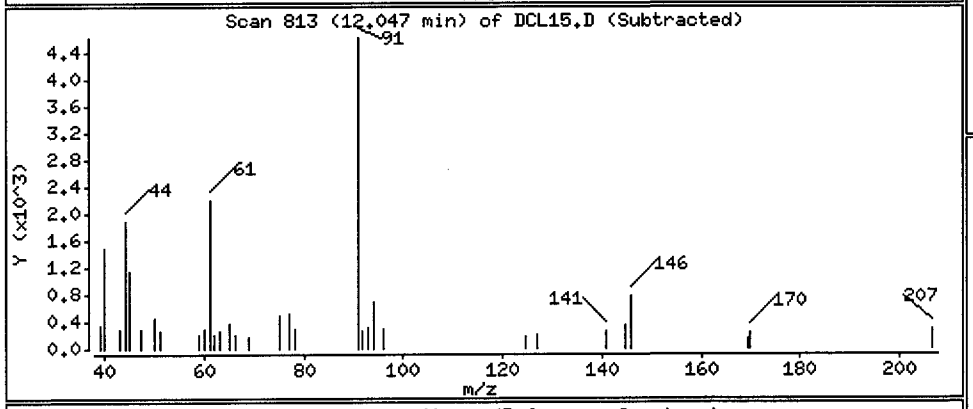
Column phase: RTx Volatiles

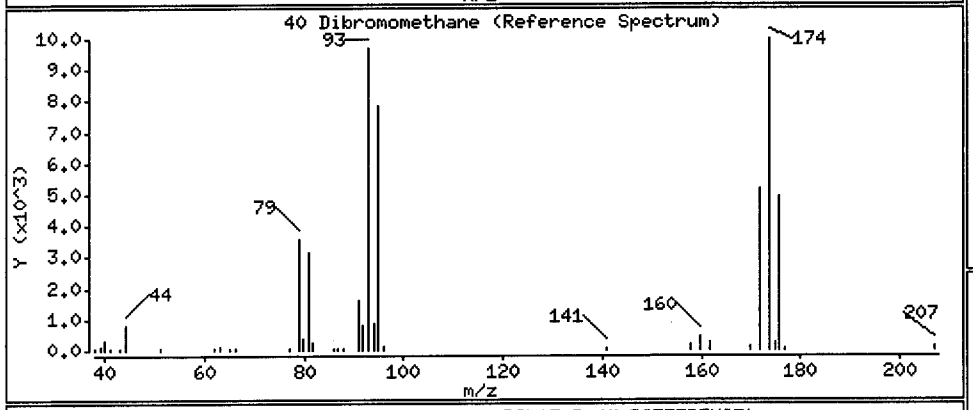
Column diameter: 0.32

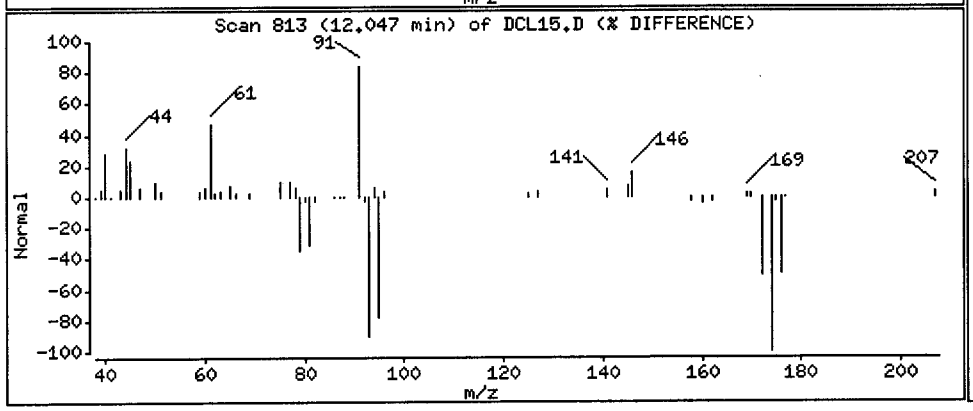
40 Dibromomethane

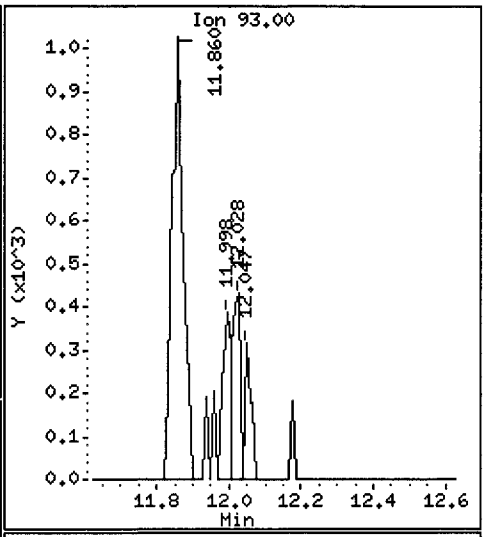
Concentration: 0.1023 UG/L

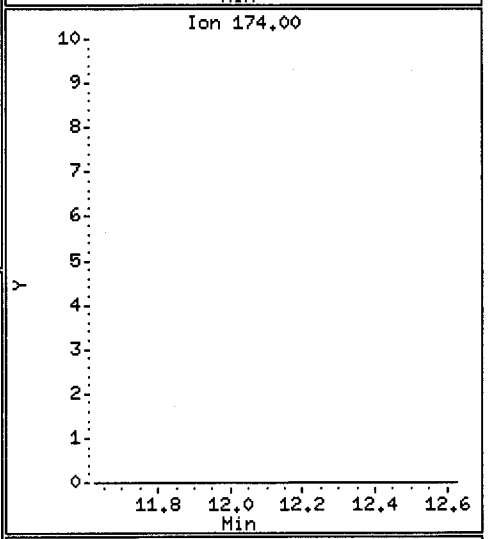


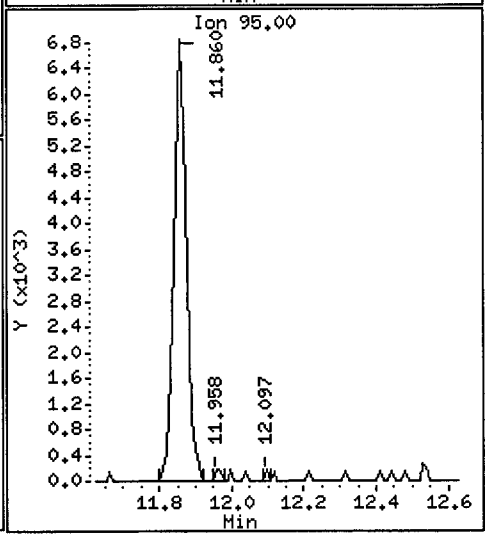












[1,1,2-Trichloroethane; 6.2 J]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

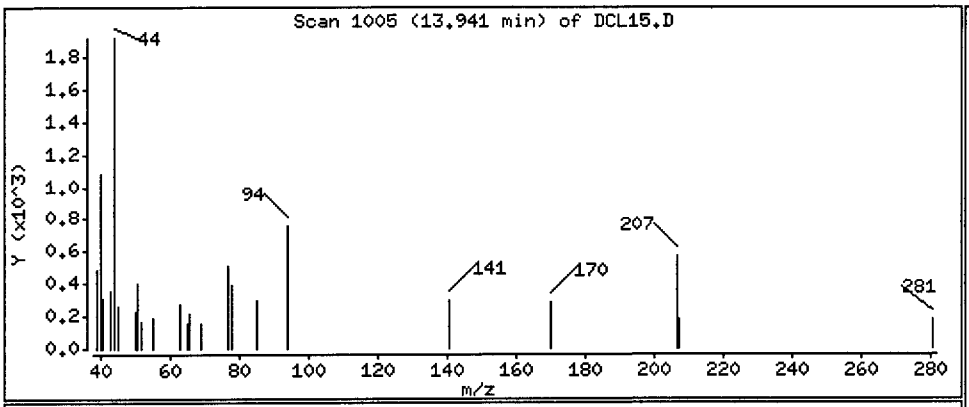
Operator: VOC

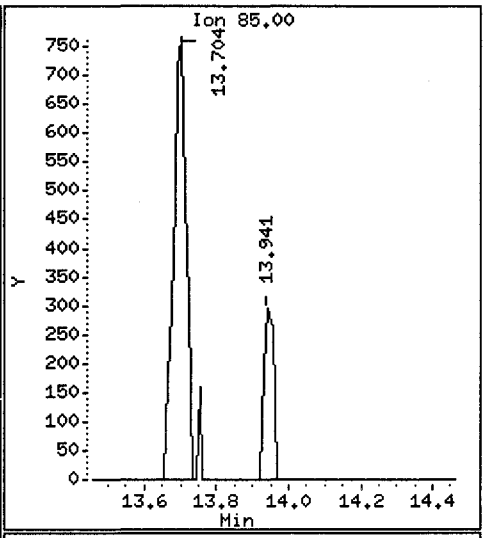
Column phase: RTx Volatiles

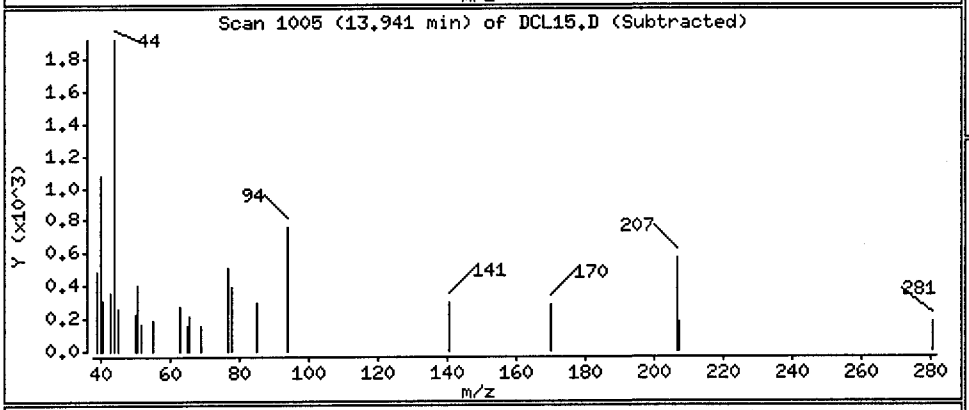
Column diameter: 0.32

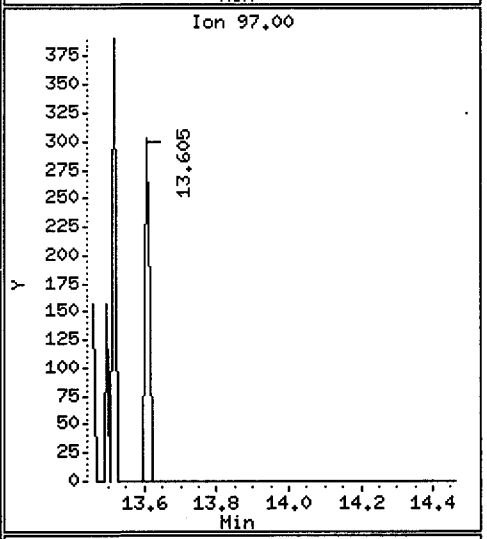
49 1,1,2-Trichloroethane

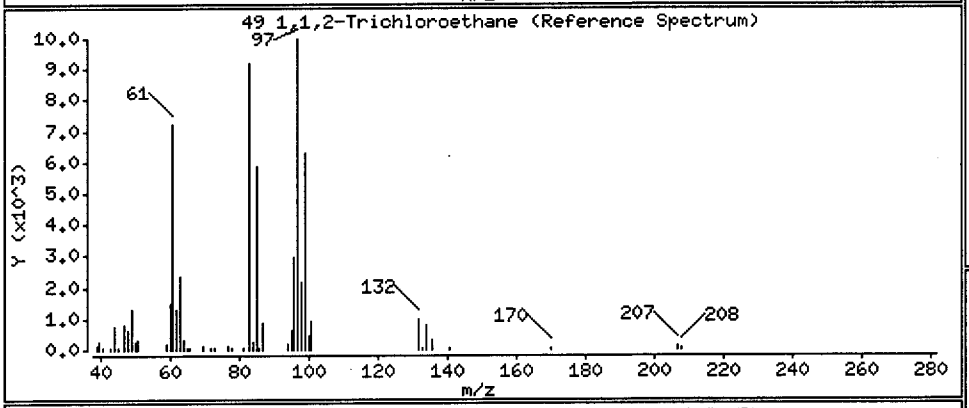
Concentration: 0.2480 UG/L

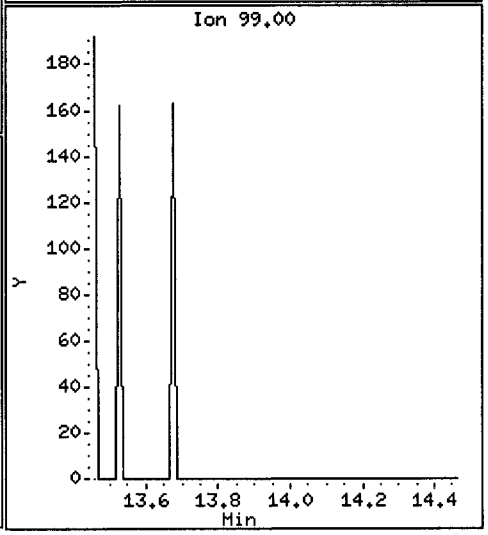


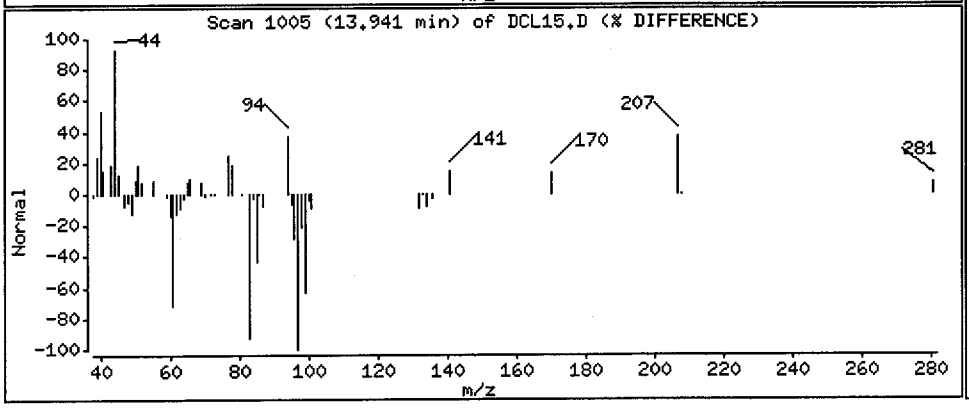












[1,2,3-Trichloropropane; 3.0 J; FP]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

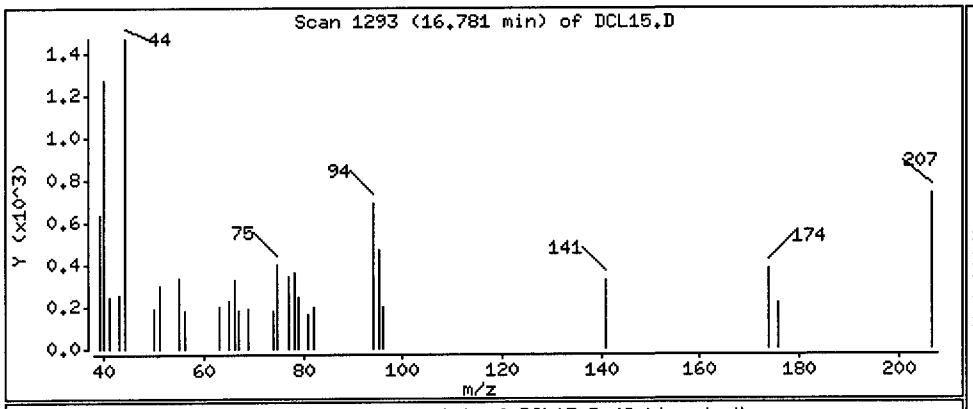
Operator: VOC

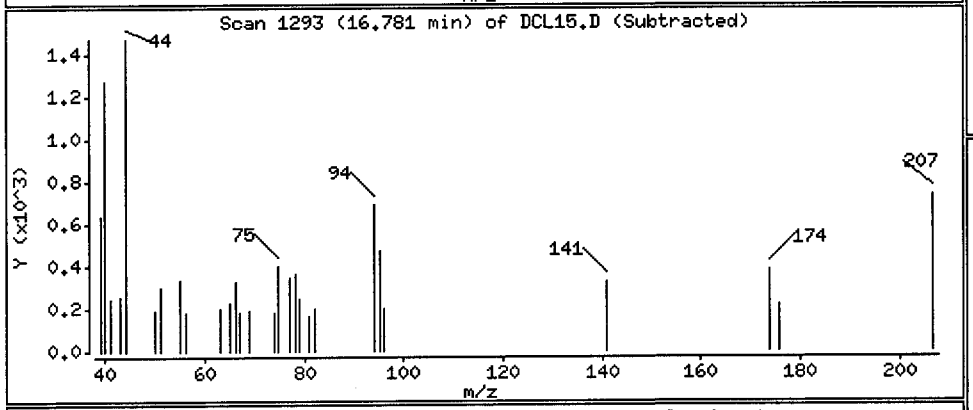
Column phase: RTx Volatiles

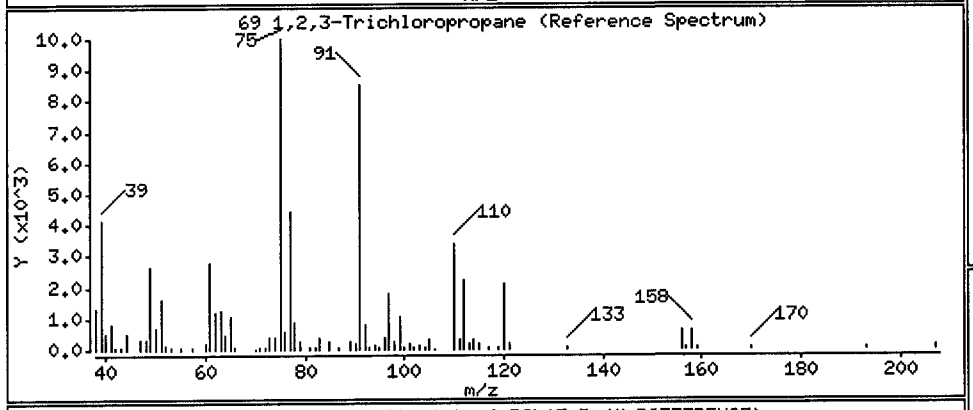
Column diameter: 0.32

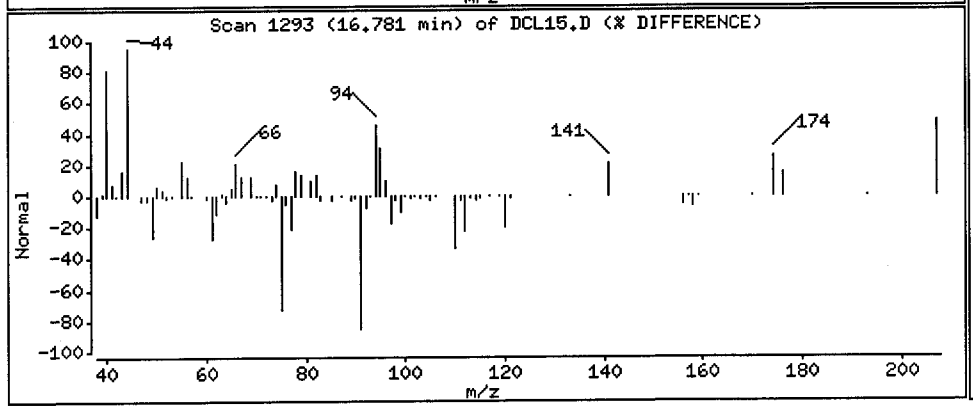
69 1,2,3-Trichloropropane

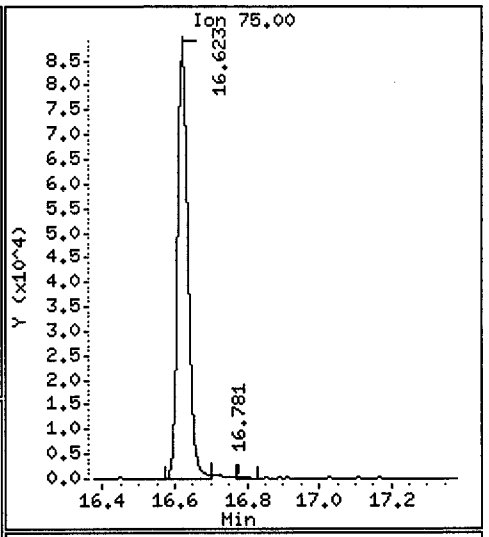
Concentration: 0.1193 UG/L

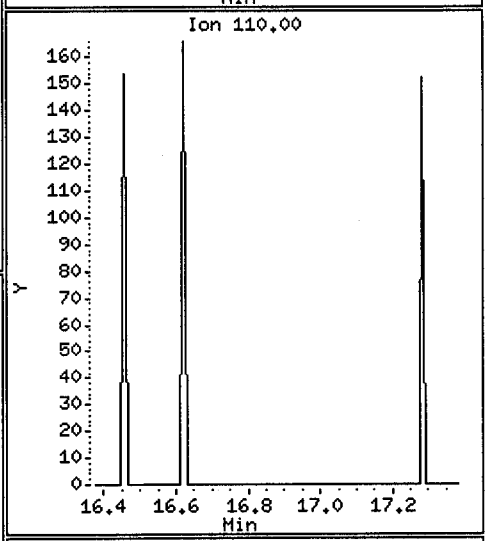


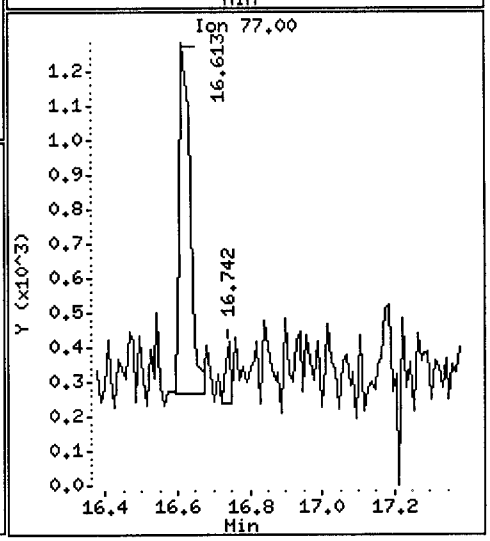












[1,3,5-Trimethylbenzene; 2.9 J; FP]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

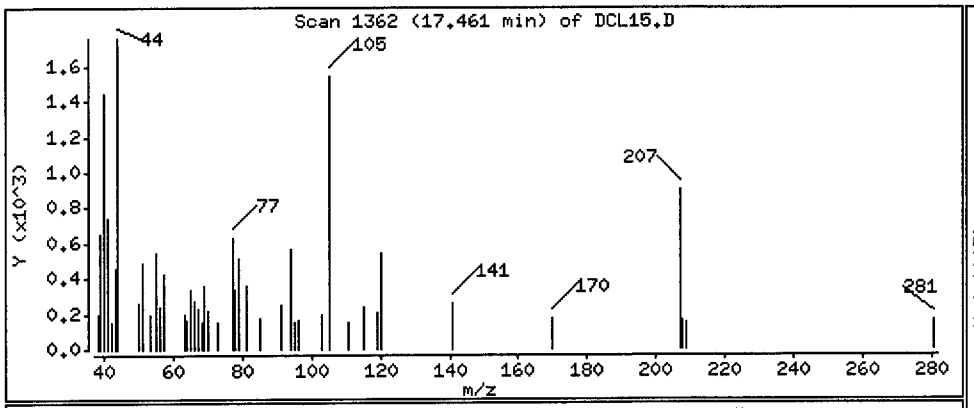
Operator: VOC

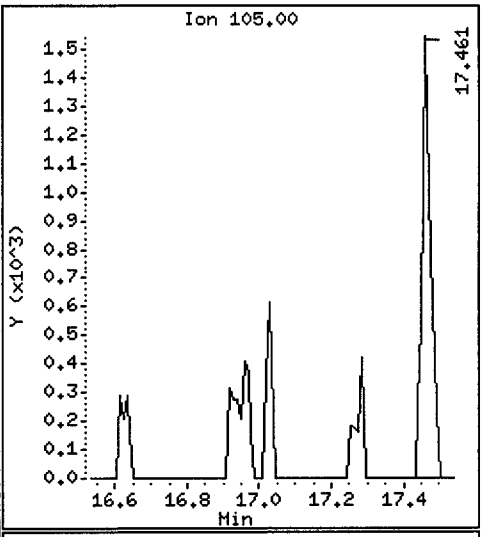
Column phase: RTx Volatiles

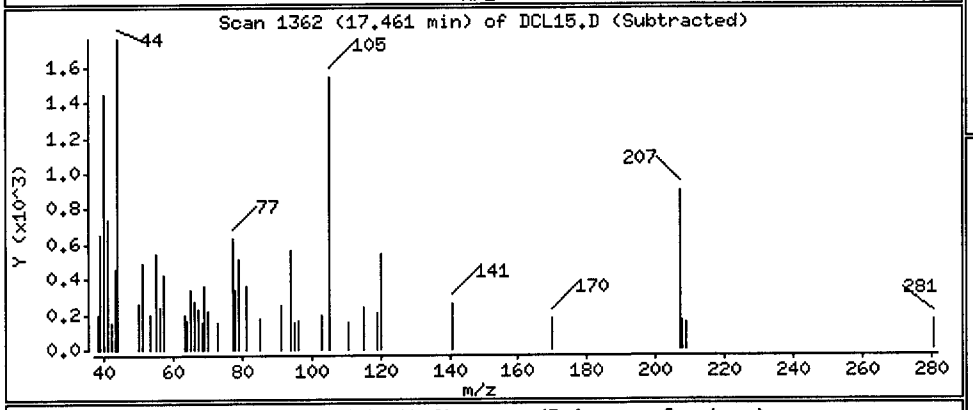
Column diameter: 0.32

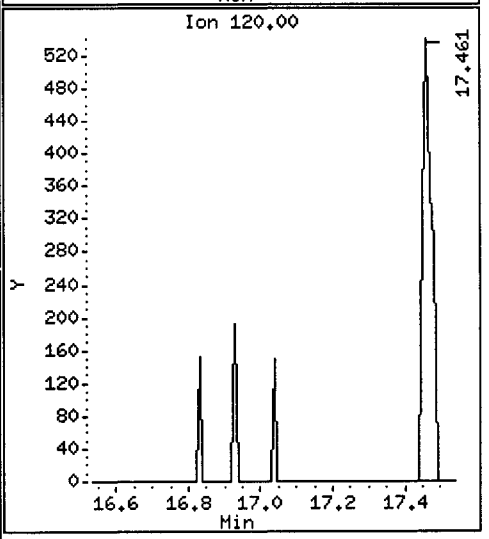
71 1,3,5-Trimethylbenzene

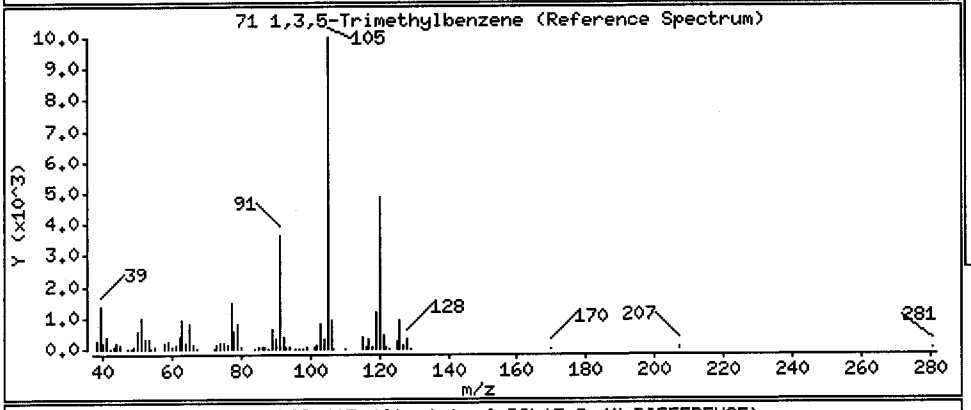
Concentration: 0.1140 UG/L

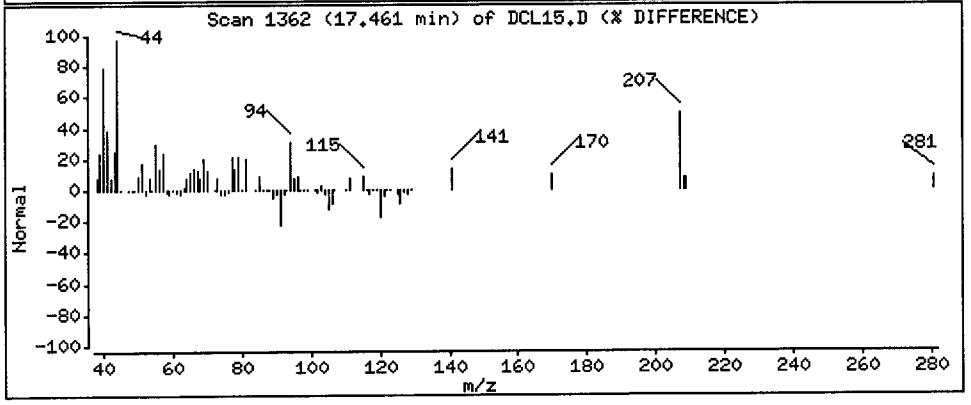












[tert-Butylbenzene; 2.6 J; FP]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

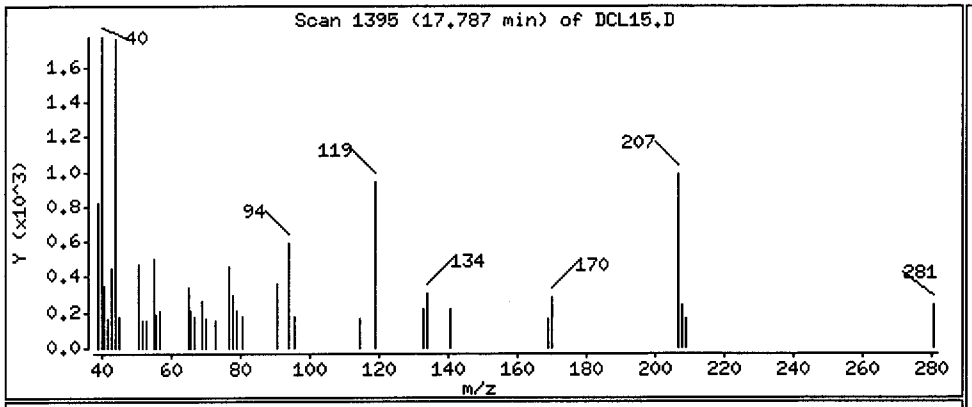
Operator: VOC

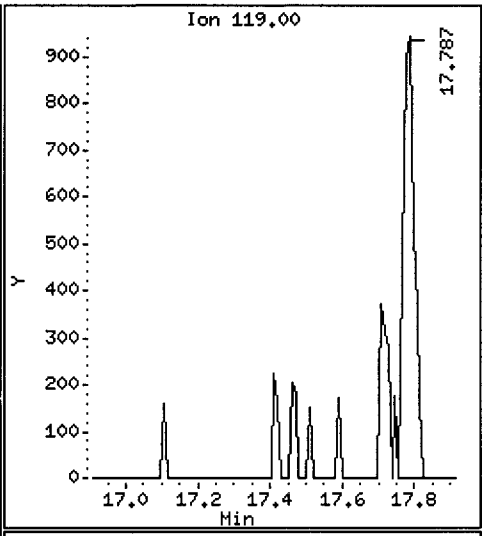
Column phase: RTx Volatiles

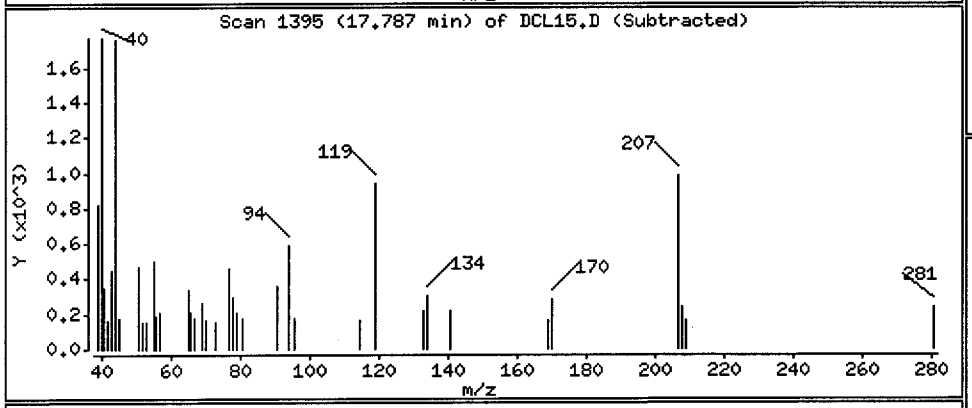
Column diameter: 0.32

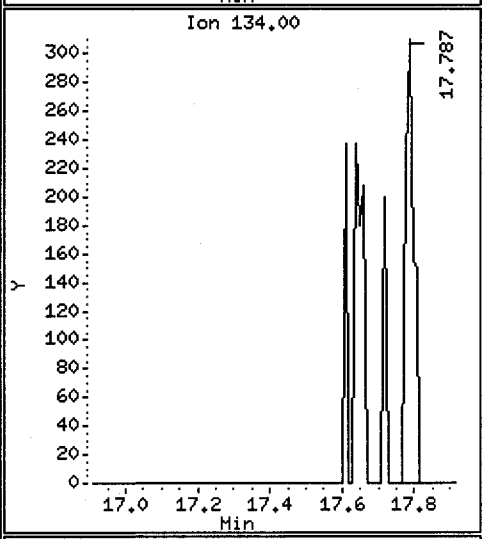
73 tert-Butylbenzene

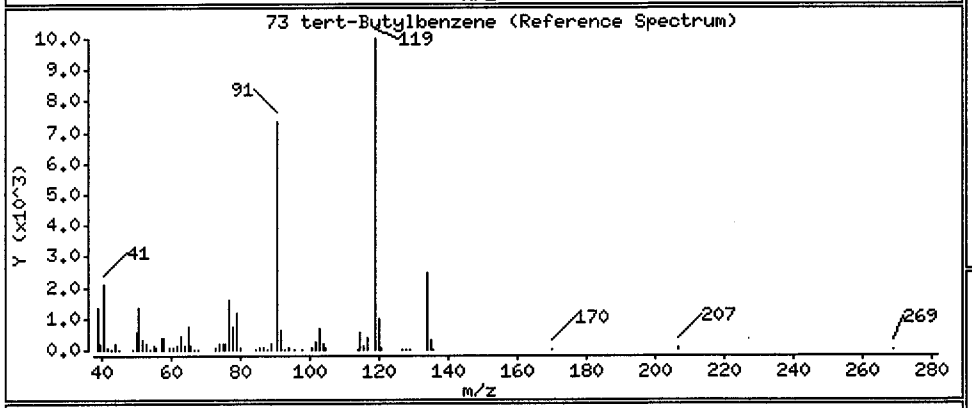
Concentration: 0.1030 UG/L

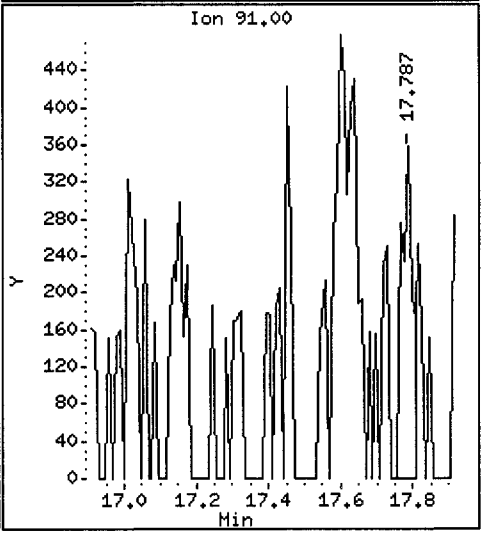


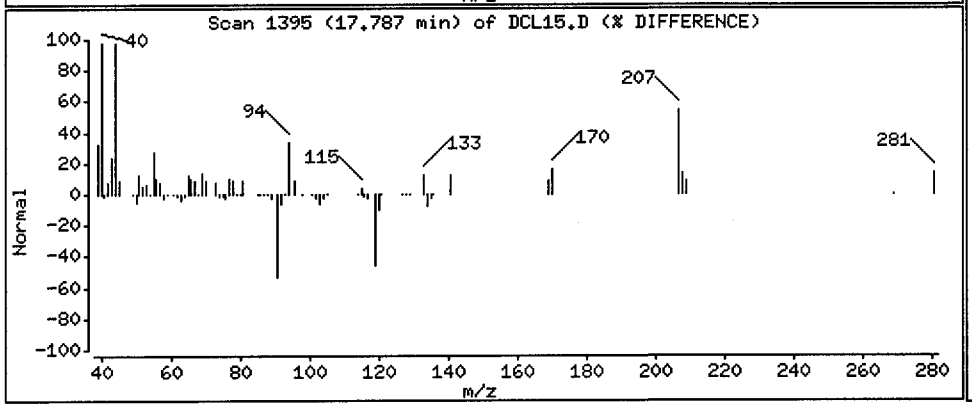












[1,2,4-Trimethylbenzene; 2.8 J]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL15.D

Date : 21-MAR-2008 15:35

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

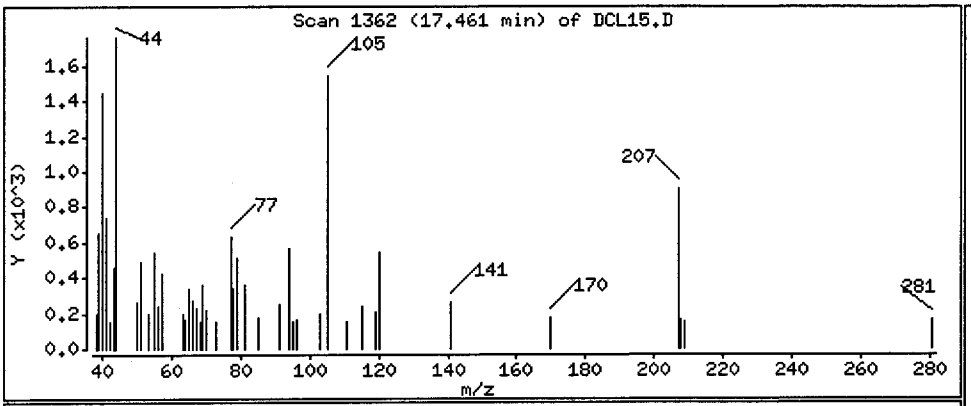
Operator: VOC

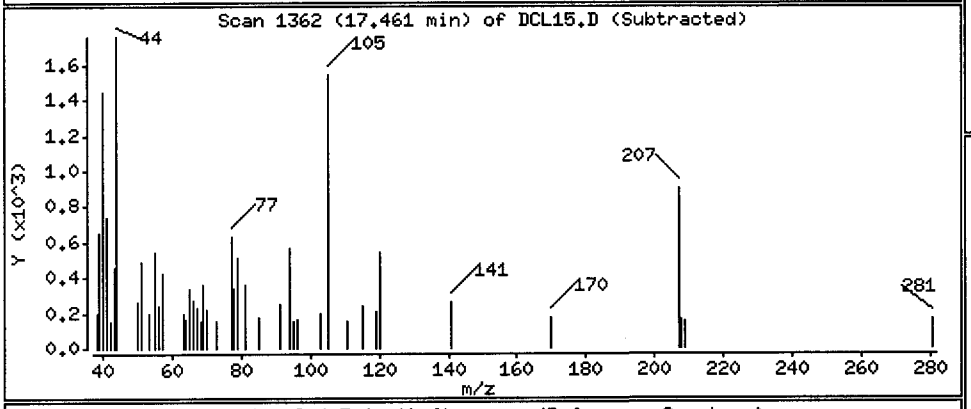
Column phase: RTx Volatiles

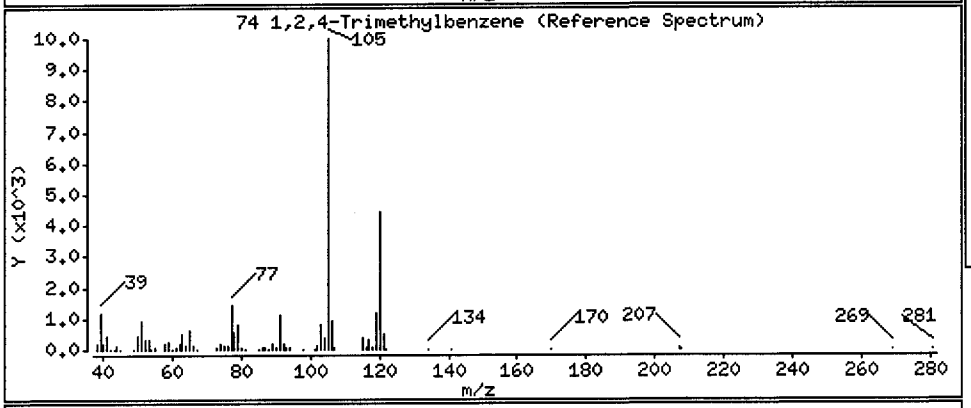
Column diameter: 0.32

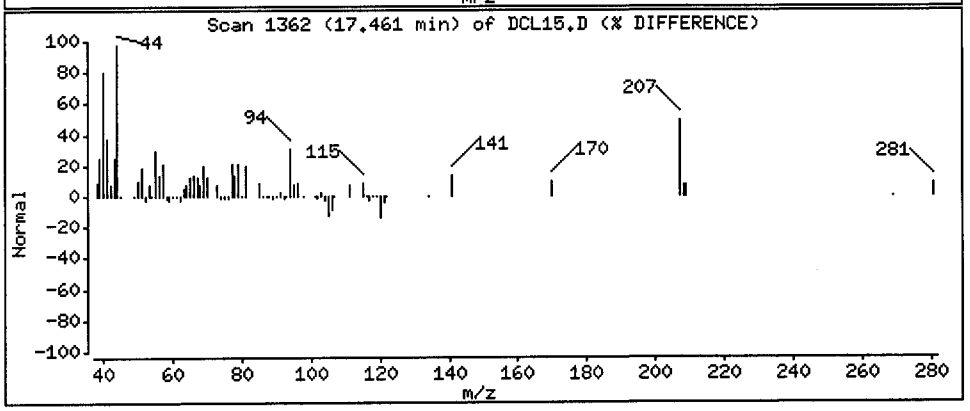
74 1,2,4-Trimethylbenzene

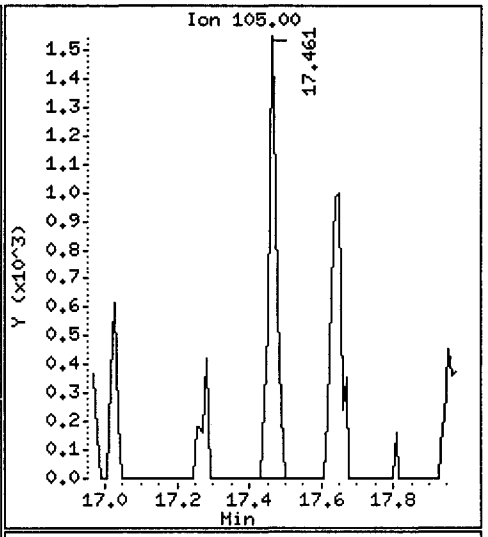
Concentration: 0.1116 UG/L

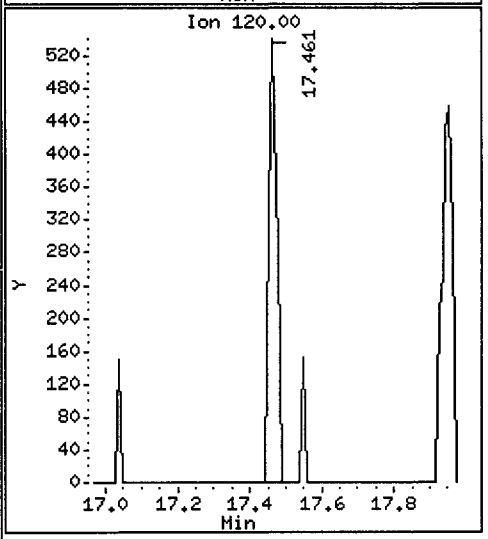












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst	: MSVOA05	Lab ID	: 202043-005	Client ID	: 1065EX311[8.5]
Seqnum	: 448115696017	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: eck17	Batch	: 136185	Time	: 20-MAR-2008 17:03
Cal	: 448110396001	Caldate	: 16-MAR-2008	Caltype	: SOIL
IDF	: 0.8333			Units	: ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	ND		8.3		u v-
Chloromethane	ND		8.3		u
Vinyl Chloride	ND		8.3		u
Bromomethane	0.84 J		8.3		?curve+ c+ l u x
Chloroethane	ND		8.3		u
Trichlorofluoromethane	ND		4.2		u v-
Acetone	41		17		CO? u
Freon 113	ND		4.2		c- u
1,1-Dichloroethene	ND		4.2		u
Methylene Chloride	ND		17	0.65	u
Carbon Disulfide	ND		4.2		u
MTBE	ND		4.2		u
trans-1,2-Dichloroethene	ND		4.2		u
Vinyl Acetate	ND		42		u
1,1-Dichloroethane	ND		4.2		u
2-Butanone	4.9 J		8.3		u
cis-1,2-Dichloroethene	ND		4.2		u
2,2-Dichloropropane	ND		4.2		u
Chloroform	0.25 J		4.2		l u x
Bromochloromethane	ND		4.2		u
1,1,1-Trichloroethane	ND		4.2		u
1,1-Dichloropropene	4.3	-0.296	4.2		u x
Carbon Tetrachloride	5.5	-0.277	4.2		u x
1,2-Dichloroethane	2.4 J	0.404	4.2		u x
Benzene	0.39 J		4.2		u
Trichloroethene	ND		4.2		u
1,2-Dichloropropane	ND		4.2		u
Bromodichloromethane	ND		4.2		u
Dibromomethane	ND		4.2		u
4-Methyl-2-Pentanone	0.64 J		8.3		l u x
cis-1,3-Dichloropropene	ND		4.2		u
Toluene	ND		4.2		u
trans-1,3-Dichloropropene	ND		4.2		u
1,1,2-Trichloroethane	ND		4.2		u
2-Hexanone	ND		8.3		u
1,3-Dichloropropane	ND		4.2		u
Tetrachloroethene	ND		4.2		u
Dibromochloromethane	ND		4.2		u
1,2-Dibromoethane	ND		4.2		u
Chlorobenzene	ND		4.2		u
1,1,1,2-Tetrachloroethane	ND		4.2		u
Ethylbenzene	ND		4.2		u
m,p-Xylenes	ND		4.2		u
o-Xylene	ND		4.2		u
Styrene	ND		4.2		u
Bromoform	ND		4.2		u
Isopropylbenzene	1.2 J		4.2		u
1,1,2,2-Tetrachloroethane	ND		4.2		u
1,2,3-Trichloropropane	ND		4.2		u

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	0.97 J		4.2		u
Bromobenzene	ND		4.2		u
1,3,5-Trimethylbenzene	ND		4.2		u
2-Chlorotoluene	1.5 J	-0.178	4.2		u x
4-Chlorotoluene	ND		4.2		u
tert-Butylbenzene	ND		4.2		u
1,2,4-Trimethylbenzene	ND		4.2		u
sec-Butylbenzene	ND		4.2		u
para-Isopropyl Toluene	ND		4.2		u
1,3-Dichlorobenzene	ND		4.2		u
1,4-Dichlorobenzene	ND		4.2		u
n-Butylbenzene	2.0 J		4.2		l u x
1,2-Dichlorobenzene	ND		4.2		u
1,2-Dibromo-3-Chloropropane	ND		4.2		u
1,2,4-Trichlorobenzene	ND		4.2		u
Hexachlorobutadiene	ND		4.2		u
Naphthalene	1.5 J		4.2	1.6	m u
1,2,3-Trichlorobenzene	ND		4.2	0.58	u

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	41.67	34.68	83	78-126	u
1,2-Dichloroethane-d4	41.67	38.12	91	76-137	u
Toluene-d8	41.67	42.89	103	80-120	u
Bromofluorobenzene	41.67	43.17	104	80-121	u

ISTD (ICAL ecg11)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	751961	1035314	37.68	9.80	9.79	-0.01
1,4-Difluorobenzene	1093331	1376888	25.94	10.90	10.91	0.01
Chlorobenzene-d5	980726	1176280	19.94	15.00	15.01	0.01
1,4-Dichlorobenzene-d4	574120	616103	7.31	17.72	17.73	0.01

BO 03/21/08 [n-Butylbenzene]: RR 1x, co check

BO 03/21/08 [Bromomethane]: This is just noise.

BO 03/21/08 [Chloroform]: Spectrum does not confirm.

BO 03/21/08 [4-Methyl-2-Pentanone]: Spectrum does not confirm.

BO 03/21/08 [n-Butylbenzene]: Spectrum does not confirm.

BO 03/21/08 [Acetone]: Not carryover.

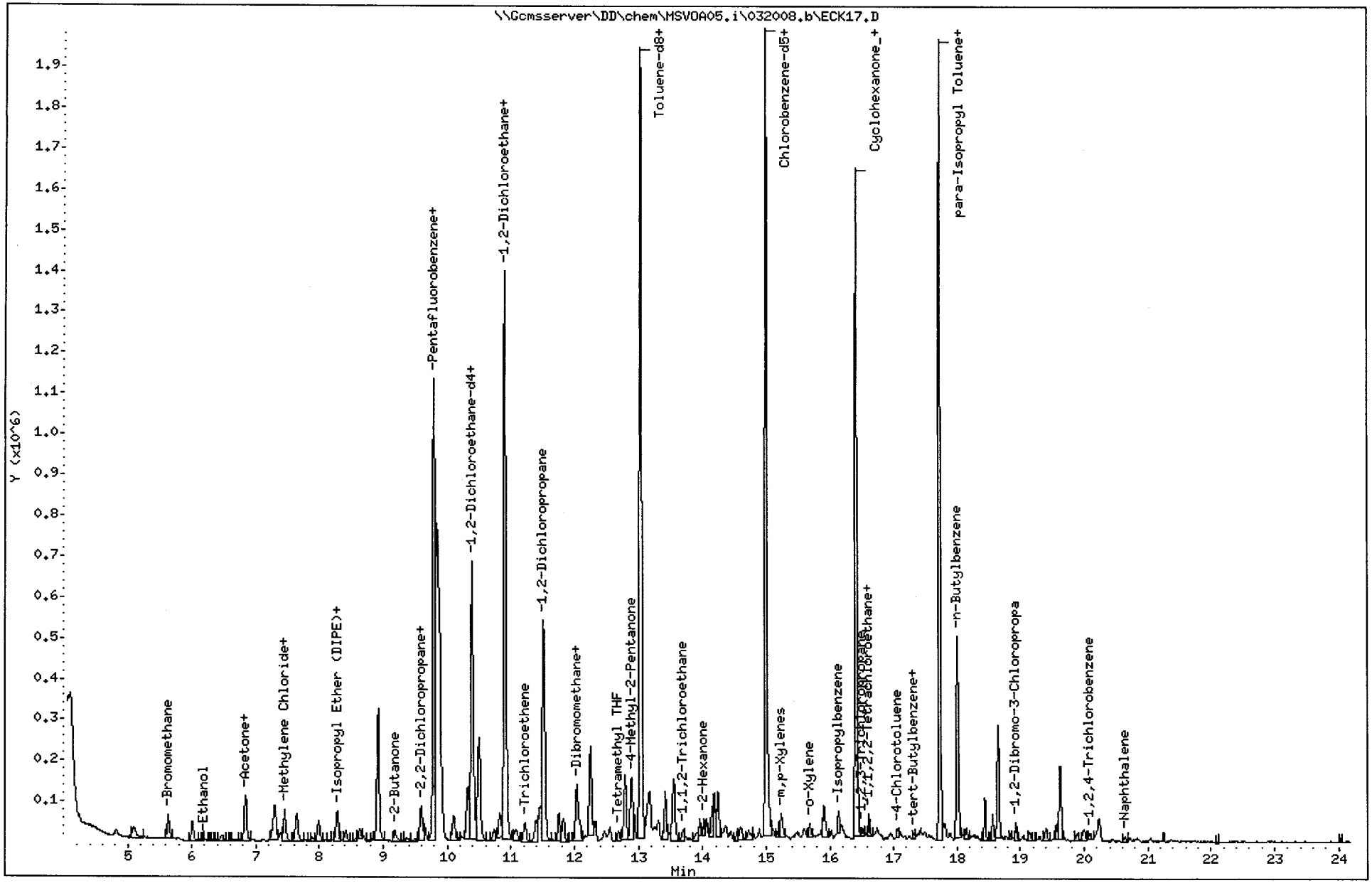
Analyst: BO Date: 03/21/08 Reviewer: MJD Date: 03/21/08

+=high bias -=low bias ?curve=check curve CO?=check for carryover c=CCV l=false positive flag altered m=manual integration u=use v=ICV x=false positive

448115696017

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D
Date : 20-MAR-2008 17:03
Client ID: DYNA P&T
Sample Info: S,202043-005
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i
Operator: VOC
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D
Report Date: 21-Mar-2008 14:48

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 20-MAR-2008 17:03 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : S,202043-005
Misc Info : 136185,6/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4	Bromomethane	94	5.455	5.483	(0.557)	1404	1.01278	1.0127
7	Ethanol	45	6.223	6.231	(0.636)	933	5.74807	5.7480(A)
10	Acetone	43	6.834	6.852	(0.698)	211082	49.4326	49.4326
11	Isopropanol	45	6.943	6.941	(0.709)	988	1.00774	1.0077(A)
13	Methylene Chloride	84	7.455	7.463	(0.761)	5253	0.41454	0.4145(a)
14	tert-Butyl Alcohol (TBA)	59	7.475	7.483	(0.763)	3310	2.30993	2.3099(A)
17	Isopropyl Ether (DIPE)	45	8.263	8.281	(0.844)	11498	0.20743	0.2074(aA)
18	Vinyl Acetate	43	8.283	8.359	(0.846)	7560	0.21026	0.2102(a)
21	2,2-Dichloropropane	77	9.584	9.188	(0.979)	3992	0.22096	0.2209(a)
22	2-Butanone	43	9.190	9.198	(0.939)	49116	5.90113	5.9011
25	Tetrahydrofuran	42	9.574	9.572	(0.978)	2195	0.47169	0.4716(aA)
26	Chloroform	83	9.604	9.612	(0.981)	7500	0.29644	0.2964(a)
* 27	Pentafluorobenzene	168	9.791	9.799	(1.000)	1035314	50.0000	
28	Dibromofluoromethane	113	9.840	9.848	(1.005)	521209	41.6172	41.6172
30	Carbon Tetrachloride	117	9.791	10.075	(0.898)	85853	6.58808	6.5880
31	1,1-Dichloropropene	75	9.791	10.094	(0.898)	82686	5.11032	5.1103
32	1,2-Dichloroethane-d4	65	10.382	10.400	(0.952)	580112	45.7437	45.7436
33	Benzene	78	10.392	10.400	(0.953)	21205	0.47290	0.4729(a)
35	1,2-Dichloroethane	62	10.904	10.508	(1.000)	45880	2.93084	2.9308
* 36	1,4-Difluorobenzene	114	10.904	10.912	(1.000)	1376888	50.0000	
37	Trichloroethene	95	11.230	11.307	(1.030)	3109	0.29202	0.2920(a)
39	1,2-Dichloropropane	63	11.525	11.730	(1.057)	2961	0.22065	0.2206(a)

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D
Report Date: 21-Mar-2008 14:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	40 Dibromomethane	93	12.057	11.928	(1.106)	870	0.10755	0.1075(a)
	41 Bromodichloromethane	83	12.038	12.086	(1.104)	4804	0.28784	0.2878(a)
	42 Tetramethyl THF	43	12.688	12.657	(1.164)	3928	0.13616	0.1361(aA)
	44 4-Methyl-2-Pentanone	43	12.885	12.854	(1.182)	11588	0.77395	0.7739
	45 Toluene-d8	98	13.033	13.041	(1.195)	1554371	51.4648	51.4648
	46 Toluene	92	13.132	13.140	(1.204)	7107	0.30912	0.3091(a)
	48 1,1,2-Trichloroethane	85	13.703	13.751	(1.257)	1822	0.30969	0.3096(a)
	50 2-Hexanone	43	13.999	13.977	(0.933)	1731	0.16537	0.1653(a)
*	54 Chlorobenzene-d5	117	15.004	15.012	(1.000)	1176280	50.0000	
	56 Ethylbenzene	91	15.093	15.101	(1.006)	7310	0.17100	0.1709(a)
	58 m,p-Xylenes	106	15.231	15.239	(1.015)	9517	0.68974	0.6897
	59 o-Xylene	106	15.743	15.742	(1.049)	2157	0.15342	0.1534(a)
	62 Isopropylbenzene	105	16.147	16.146	(0.911)	48127	1.46024	1.4602
	63 Cyclohexanone_	55	16.413	16.402	(0.926)	5847	3.54716	3.5471(A)
	64 Bromofluorobenzene	95	16.413	16.421	(0.926)	612540	51.8065	51.8064
	65 1,1,2,2-Tetrachloroethane	83	16.581	16.569	(0.936)	1435	0.10882	0.1088(a)
	66 Propylbenzene	91	16.620	16.619	(0.938)	50878	1.16652	1.1665
	68 1,2,3-Trichloropropane	75	16.522	16.658	(0.932)	1469	0.14595	0.1459(a)
	69 2-Chlorotoluene	91	16.620	16.806	(0.938)	50878	1.77486	1.7748
	70 1,3,5-Trimethylbenzene	105	16.808	16.806	(0.948)	4395	0.17178	0.1717(a)
	71 4-Chlorotoluene	91	17.064	16.924	(0.963)	3116	0.12092	0.1209(a)
	72 tert-Butylbenzene	119	17.498	17.180	(0.987)	3762	0.17189	0.1718(a)
	73 1,2,4-Trimethylbenzene	105	17.241	17.239	(0.973)	2457	0.10203	0.1020(a)
	74 sec-Butylbenzene	105	17.419	17.417	(0.983)	12373	0.35635	0.3563(a)
	75 para-Isopropyl Toluene	119	17.557	17.565	(0.991)	5317	0.20517	0.2051(a)
*	77 1,4-Dichlorobenzene-d4	152	17.724	17.732	(1.000)	616103	50.0000	
	79 n-Butylbenzene	91	18.010	18.028	(1.016)	61517	2.37071	2.3707
	81 1,2-Dibromo-3-Chloropropane	75	19.025	19.162	(1.073)	296	0.13610	0.1361(a)
	82 1,2,4-Trichlorobenzene	180	20.218	20.226	(1.141)	363	0.10177	0.1017(a)
	84 Naphthalene	128	20.631	20.630	(1.164)	11595	1.79615	1.7961(M)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

[Bromomethane; 0.84 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

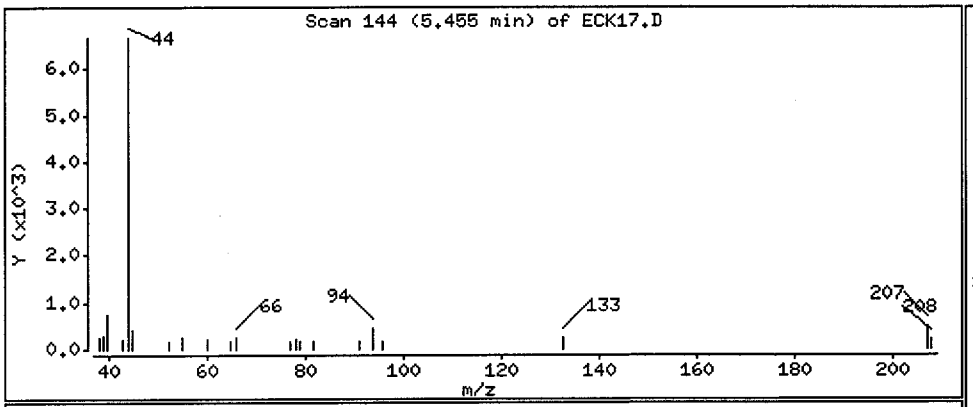
Operator: VOC

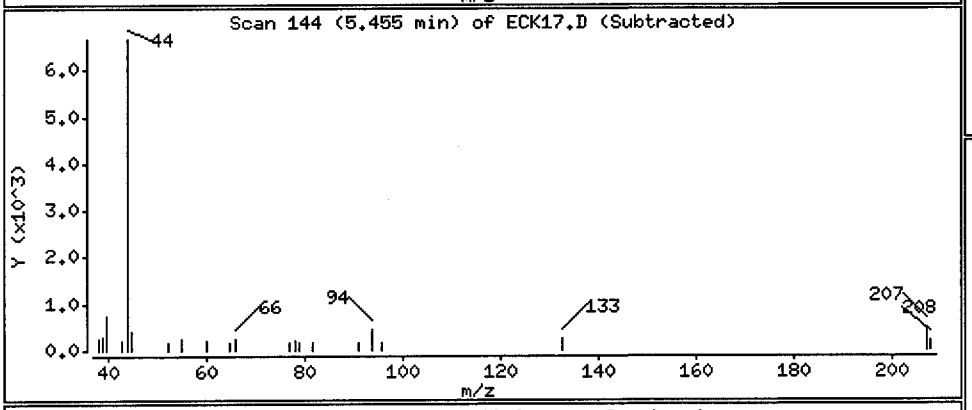
Column phase: RTX 624

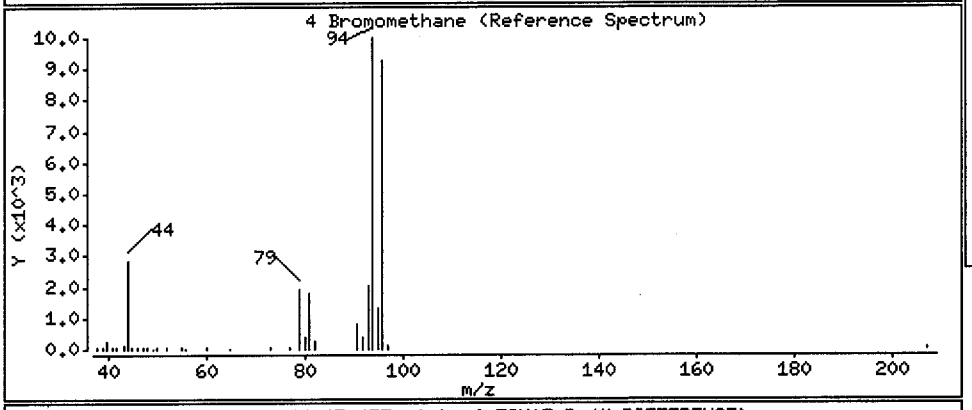
Column diameter: 0.25

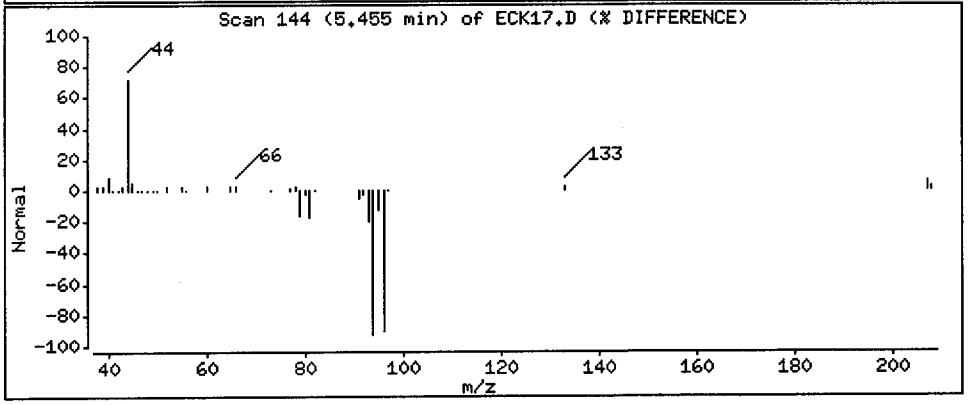
4 Bromomethane

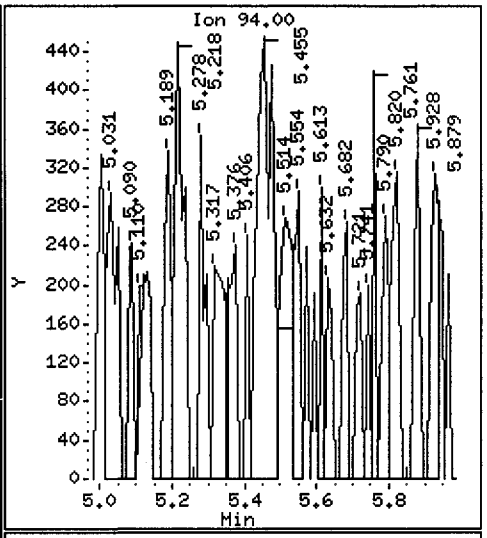
Concentration: 1.0127 UG/L

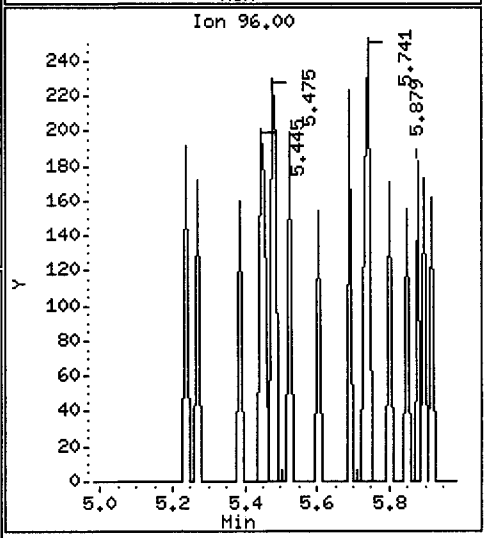












[Acetone; 41; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

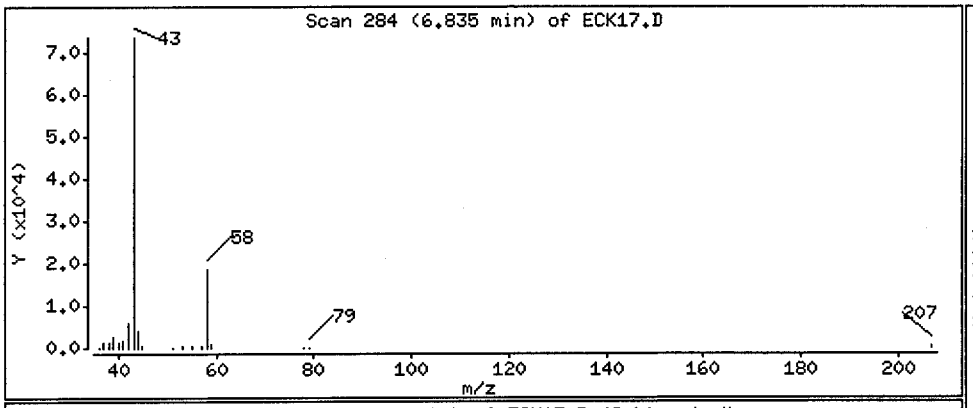
Operator: VOC

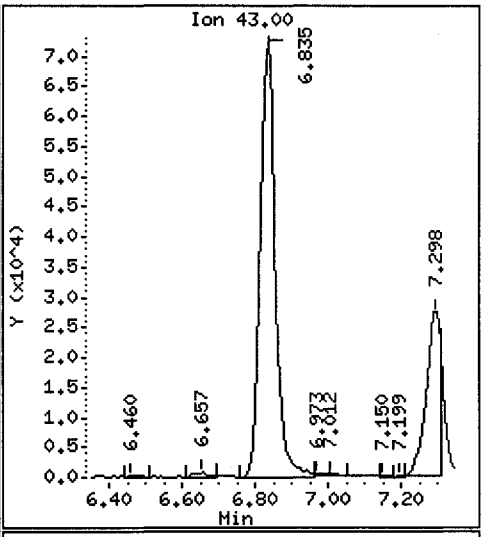
Column phase: RTX 624

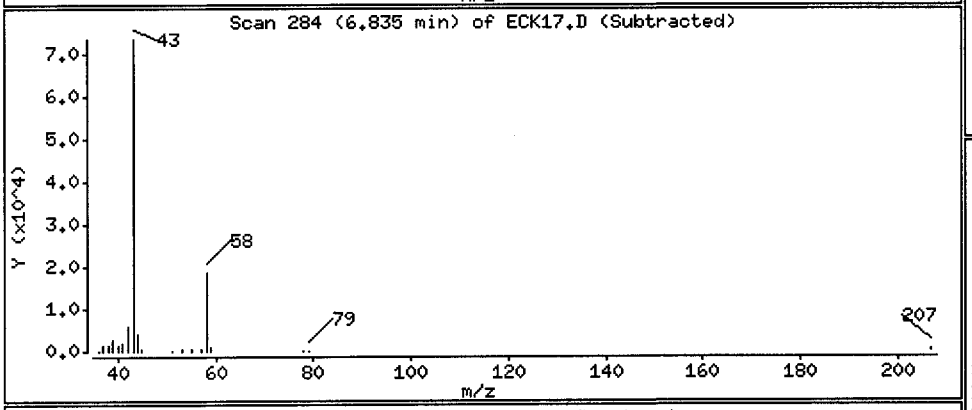
Column diameter: 0.25

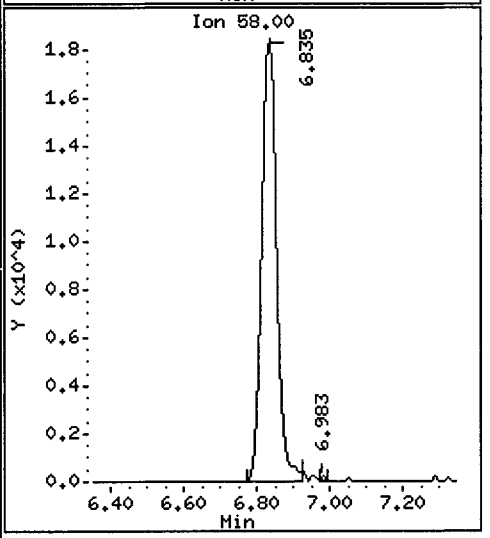
10 Acetone

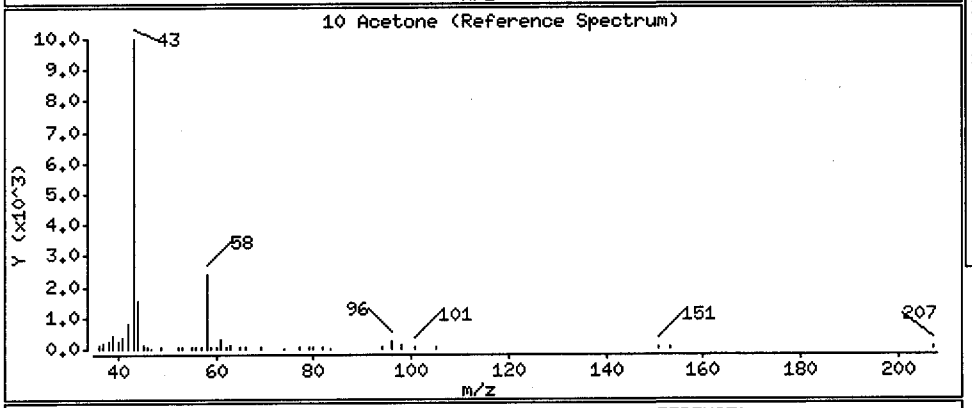
Concentration: 49.4326 UG/L

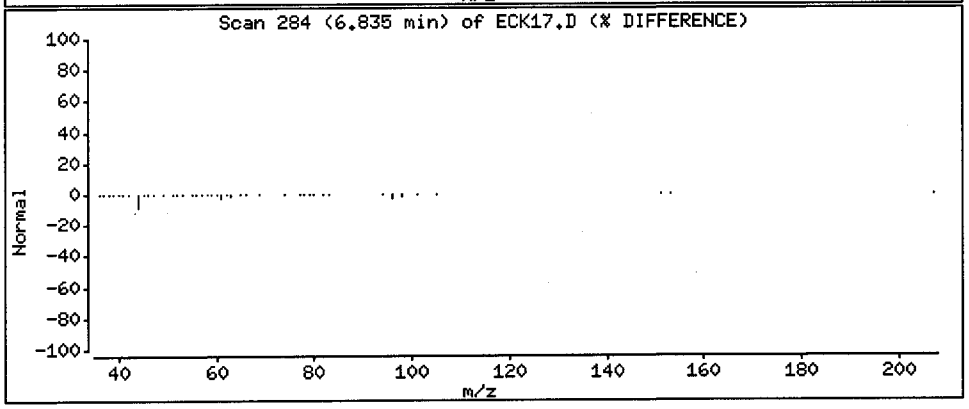












[2-Butanone; 4.9 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

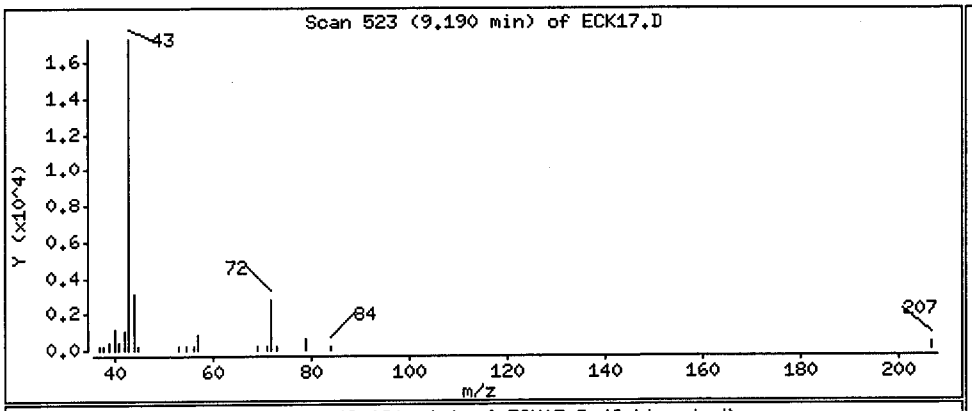
Operator: VOC

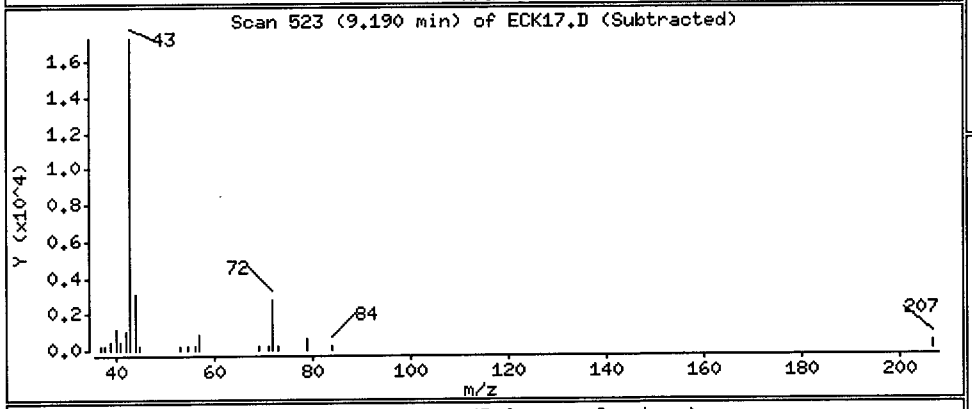
Column phase: RTX 624

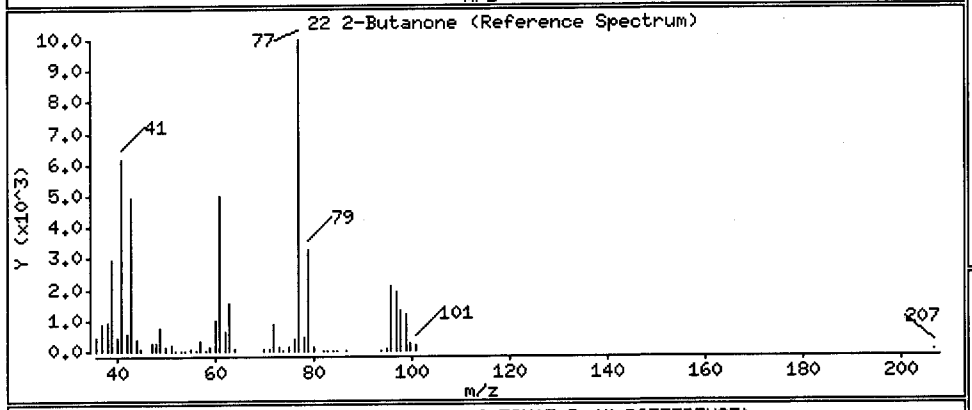
Column diameter: 0.25

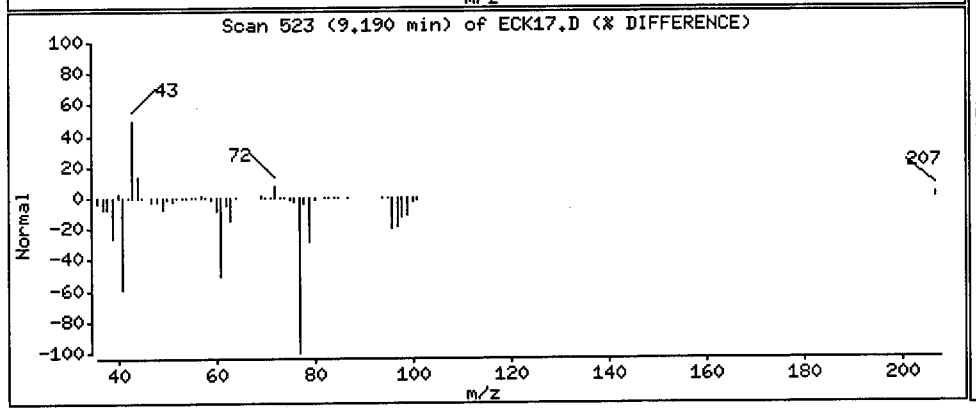
22 2-Butanone

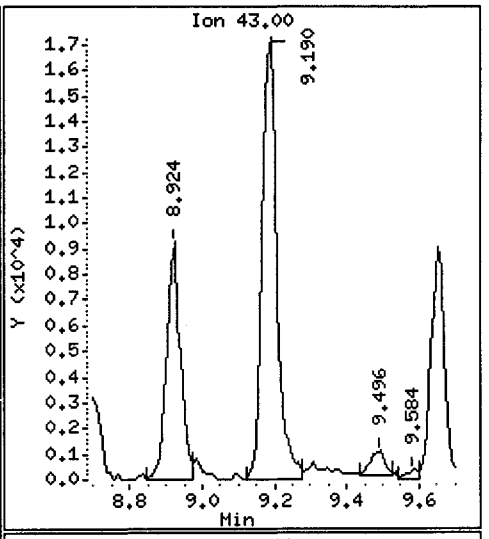
Concentration: 5.9011 UG/L

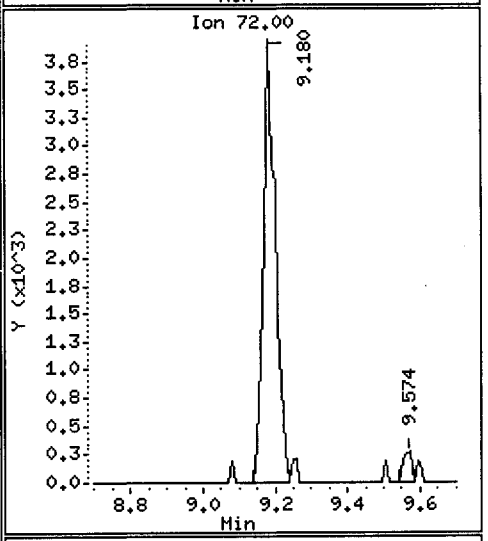


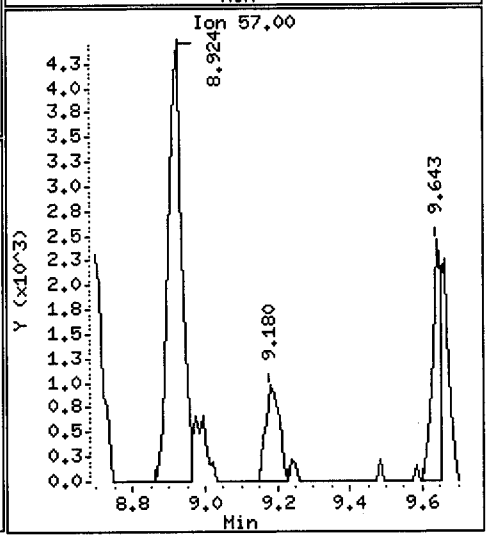












[Chloroform; 0.25 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

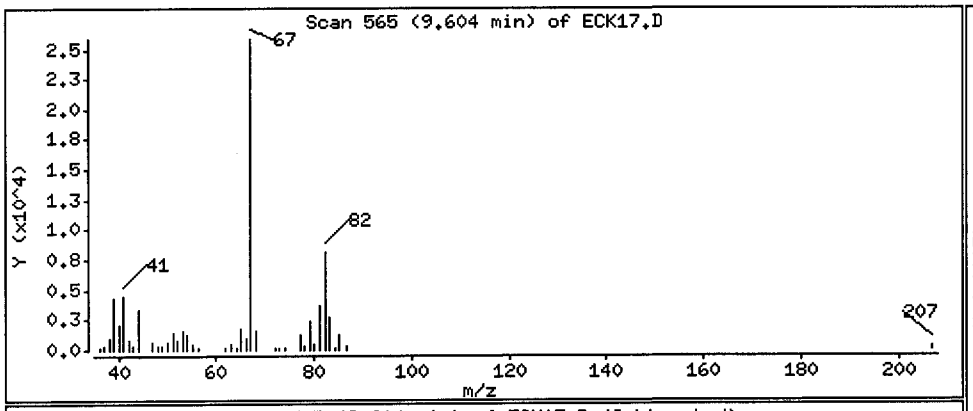
Operator: VOC

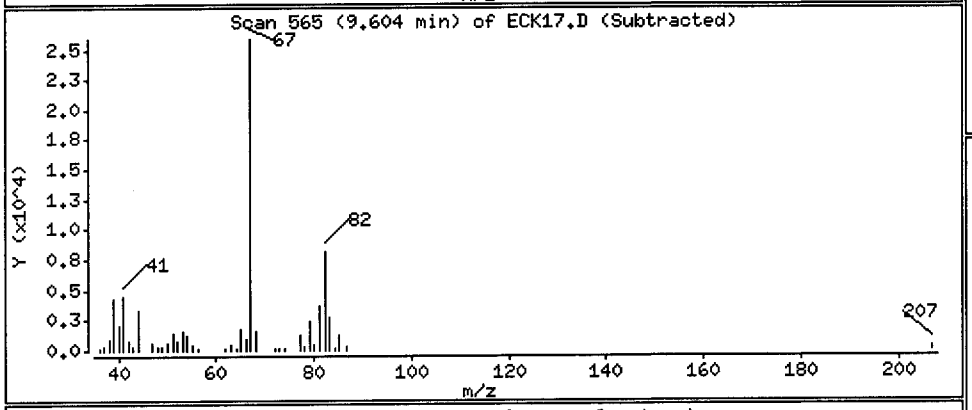
Column phase: RTX 624

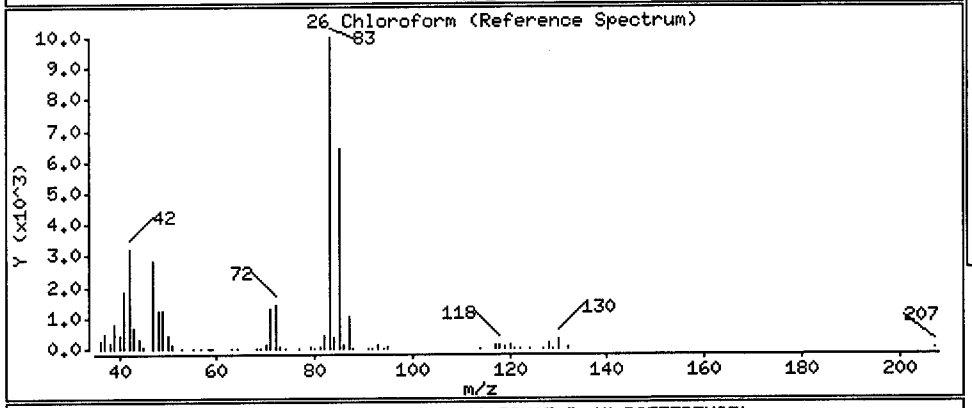
Column diameter: 0.25

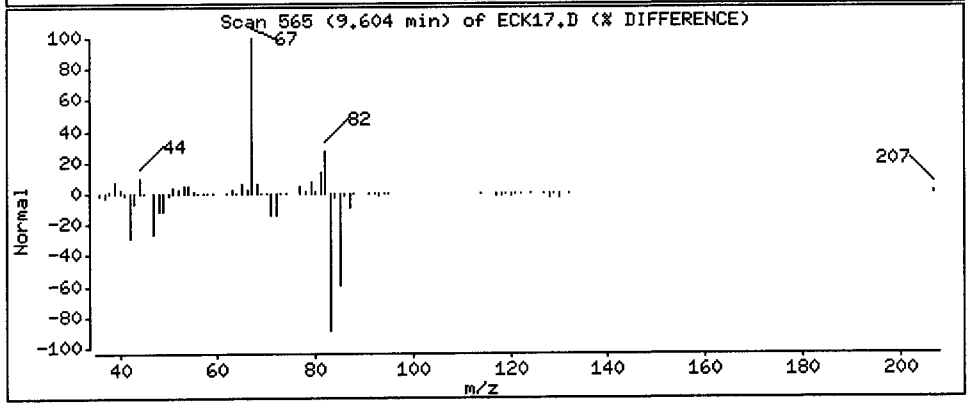
26 Chloroform

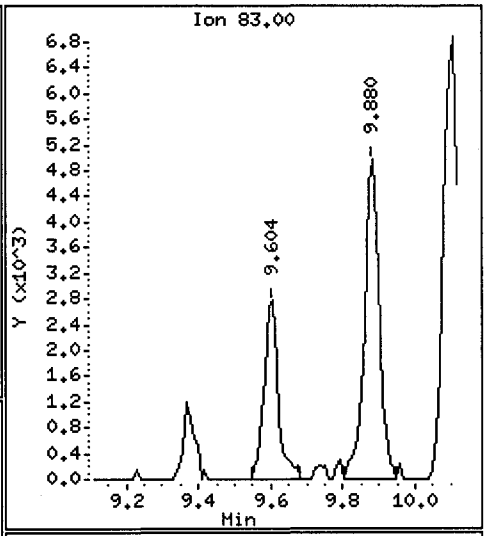
Concentration: 0.2964 UG/L

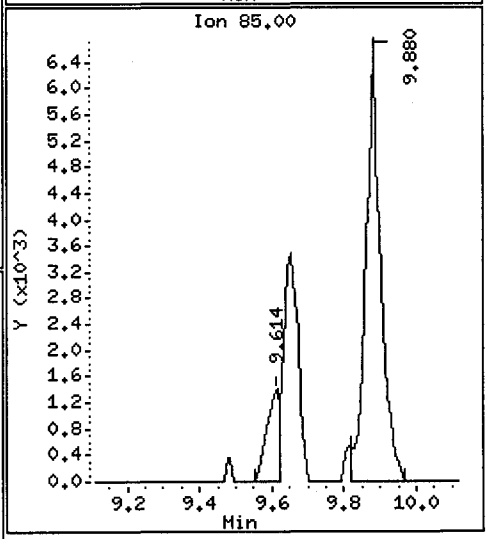












[Carbon Tetrachloride; 5.5; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

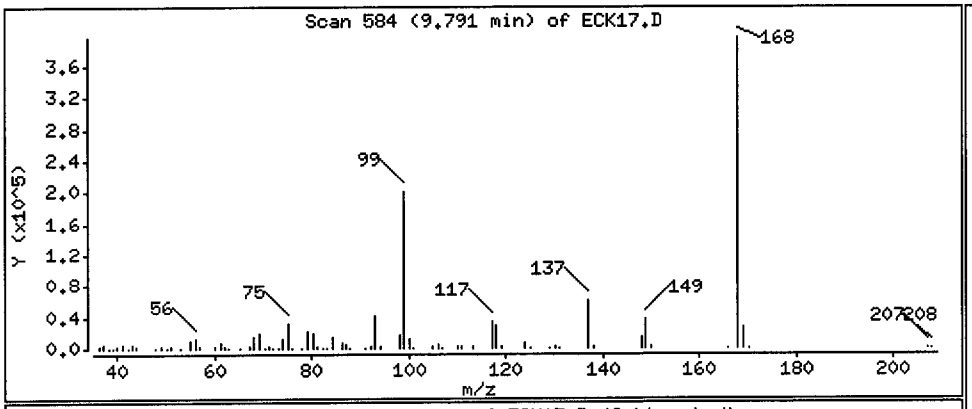
Operator: VOC

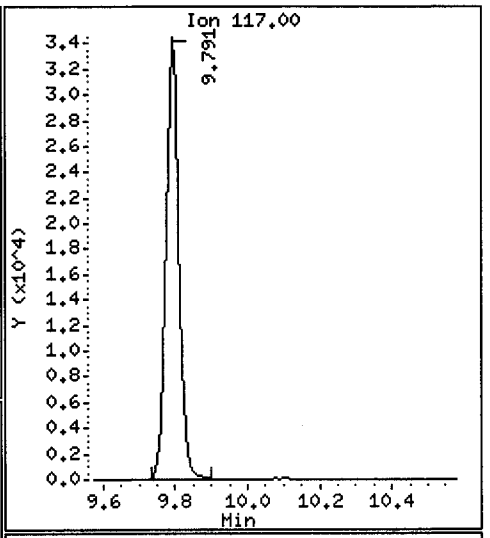
Column phase: RTX 624

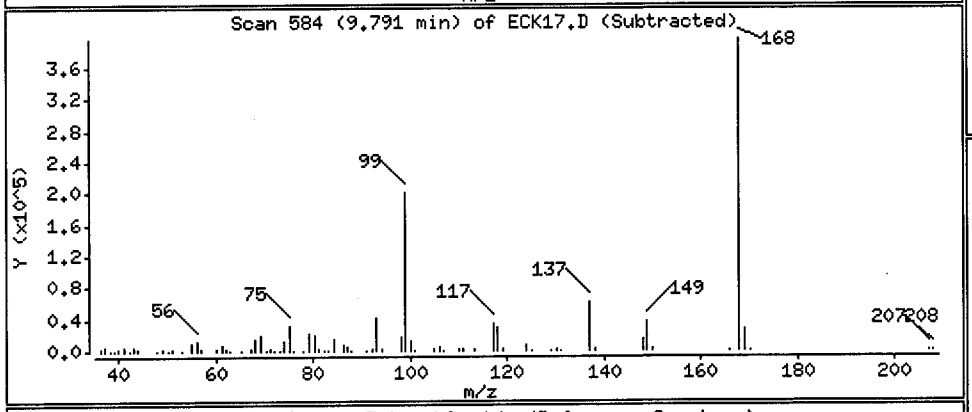
Column diameter: 0.25

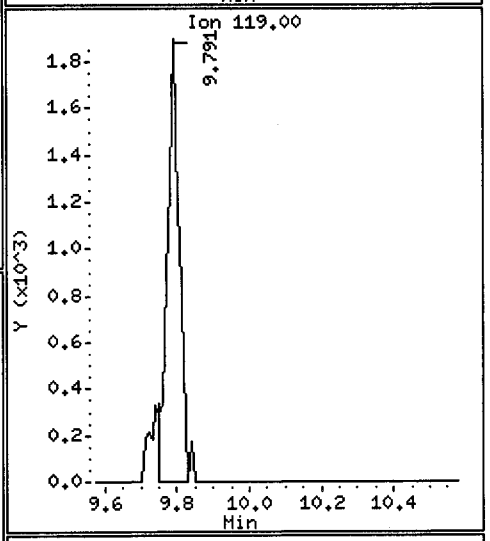
30 Carbon Tetrachloride

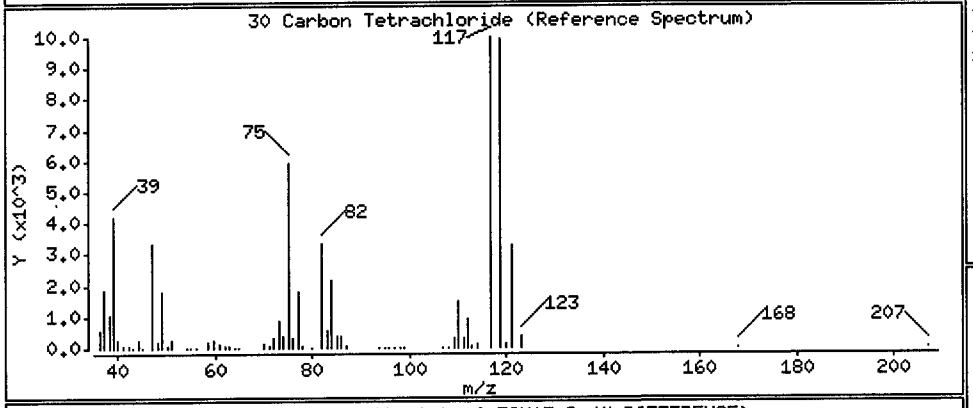
Concentration: 6.5880 UG/L

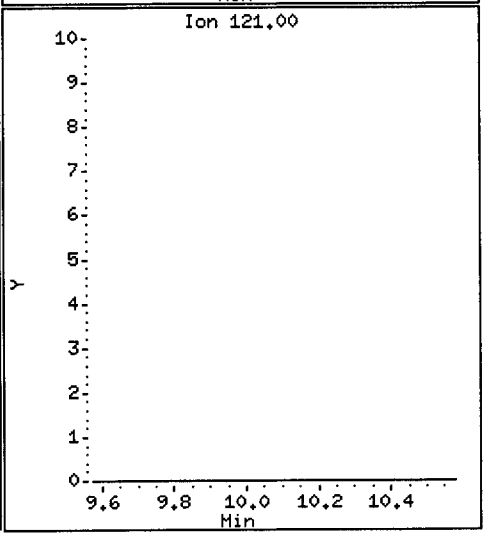


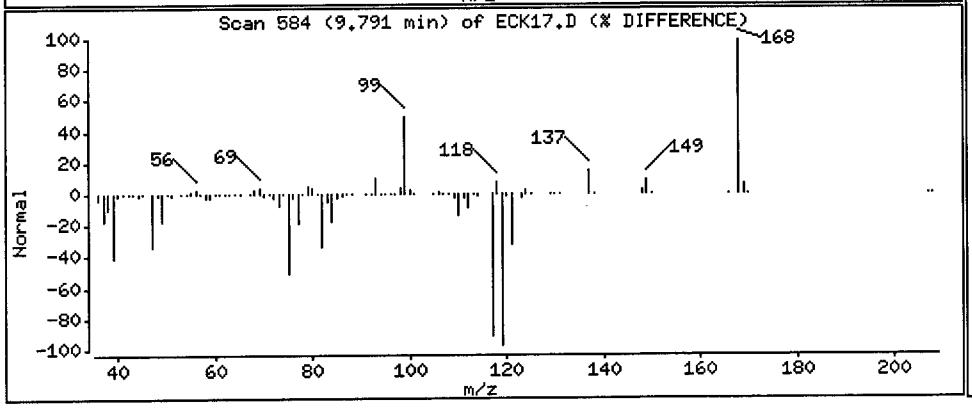












[1,1-Dichloropropene; 4.3; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

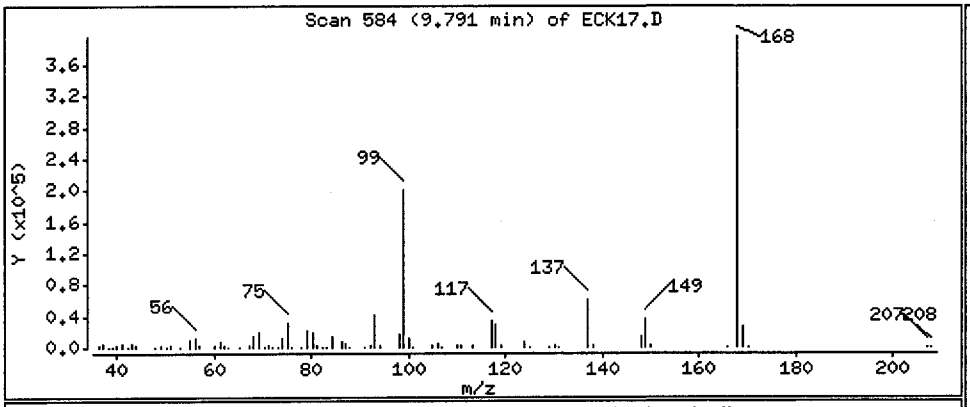
Operator: VOC

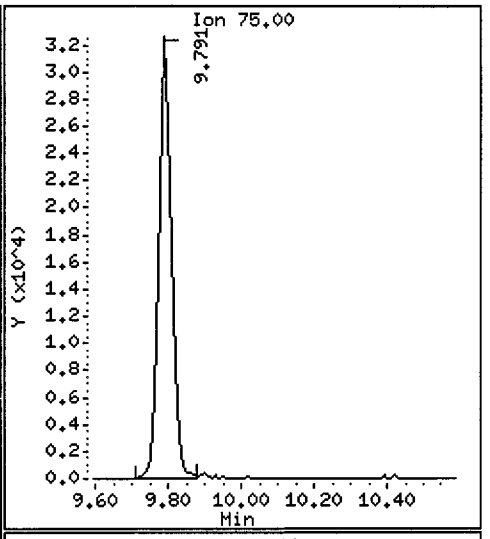
Column phase: RTX 624

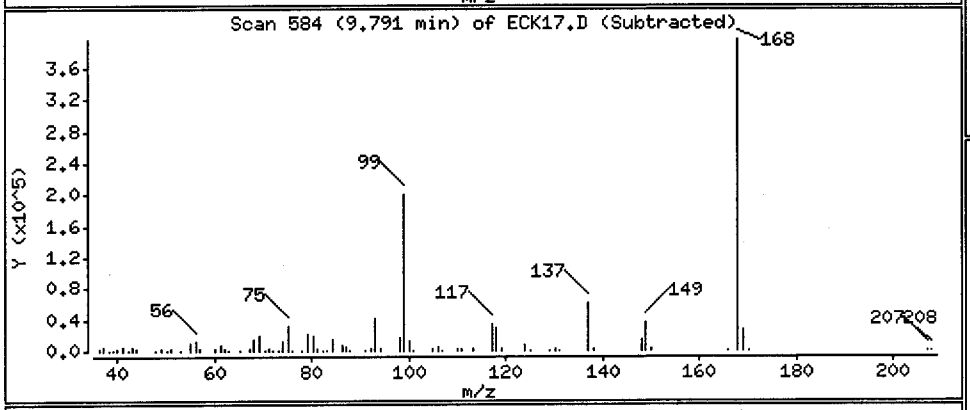
Column diameter: 0.25

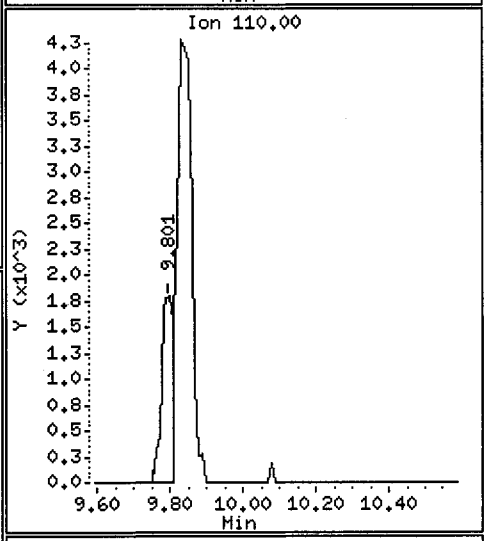
31 1,1-Dichloropropene

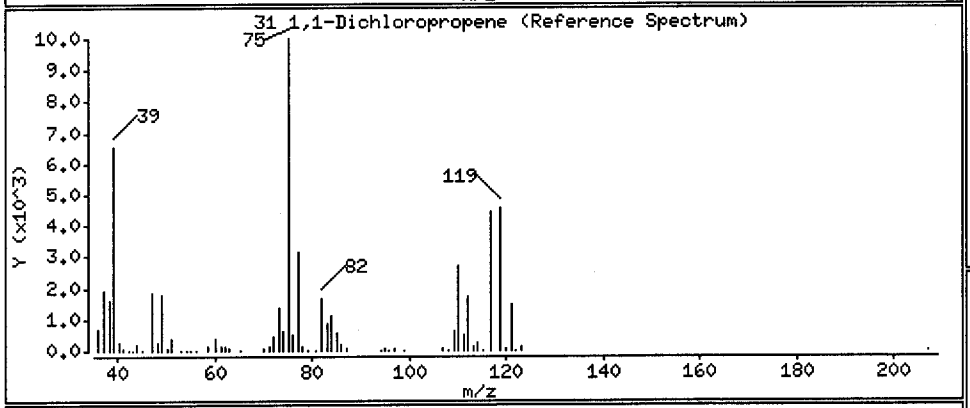
Concentration: 5.1103 UG/L

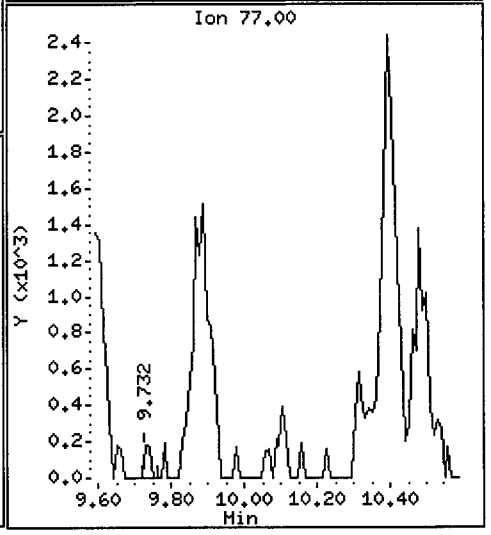


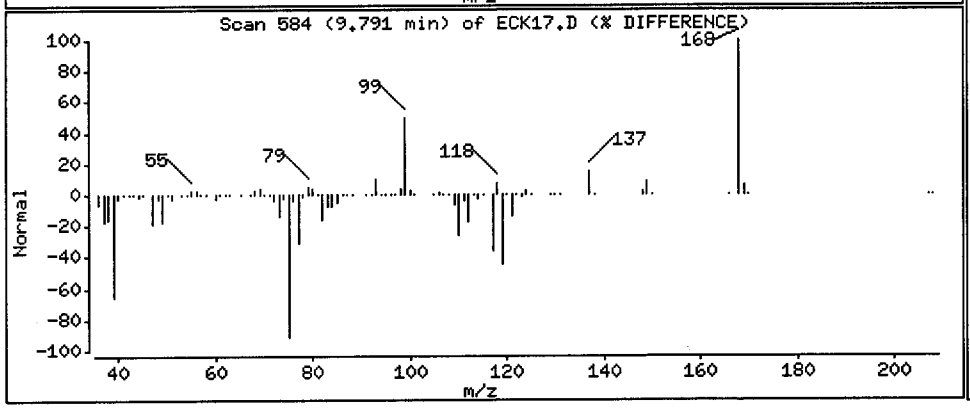












[Benzene; 0.39 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

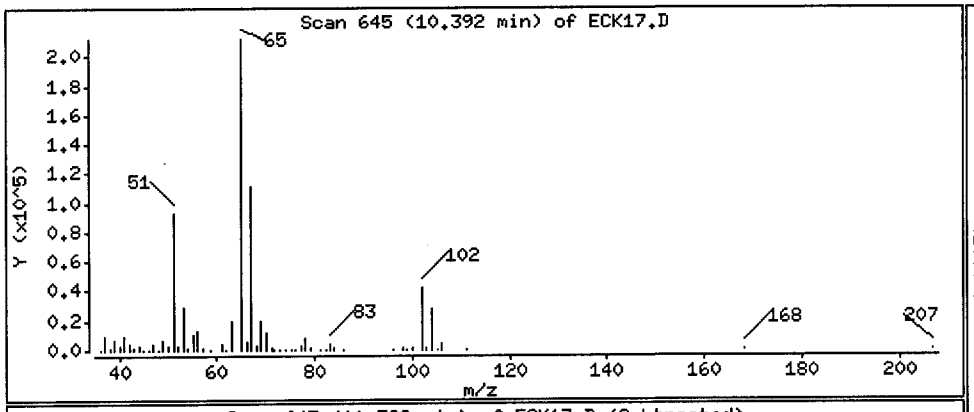
Operator: VOC

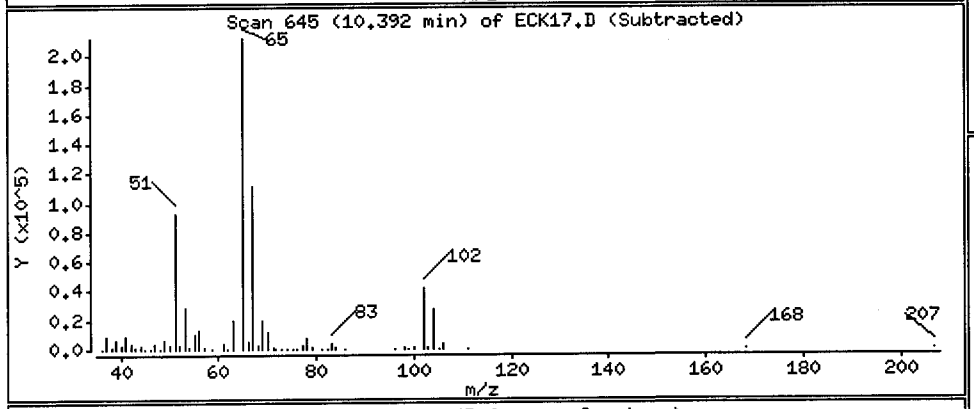
Column phase: RTX 624

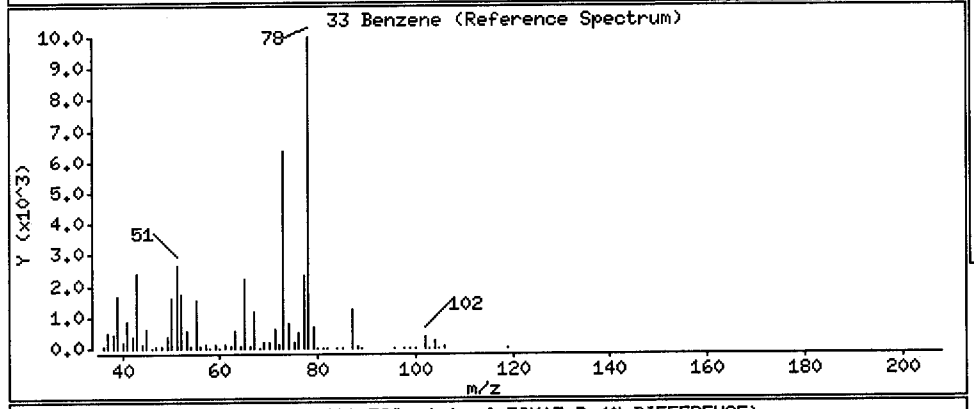
Column diameter: 0.25

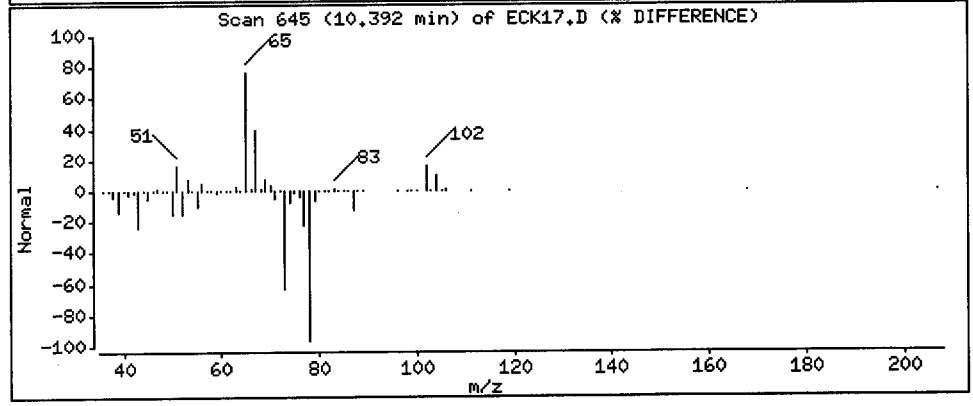
33 Benzene

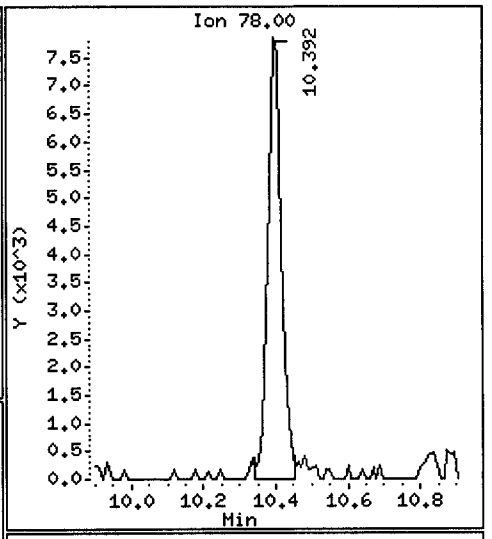
Concentration: 0.4729 UG/L

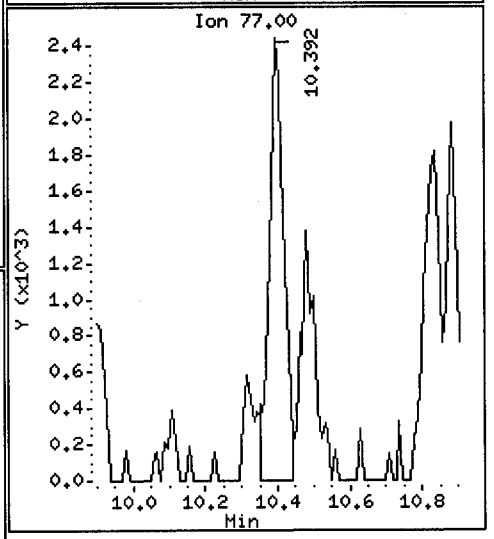












[1,2-Dichloroethane; 2.4 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

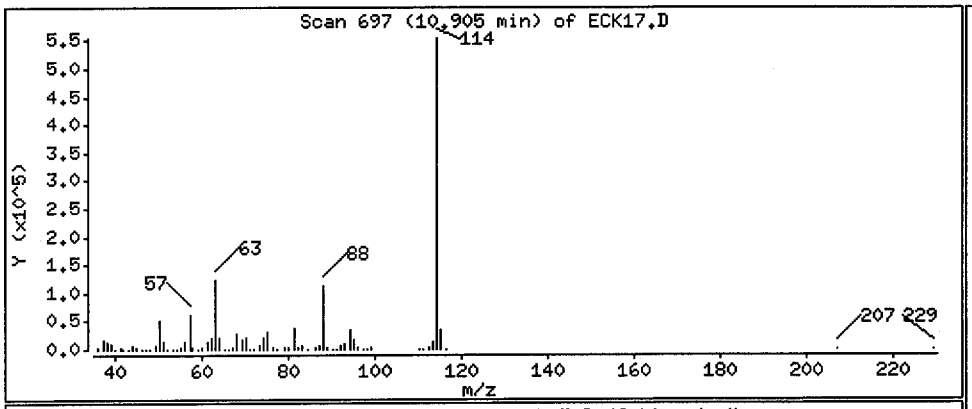
Operator: VOC

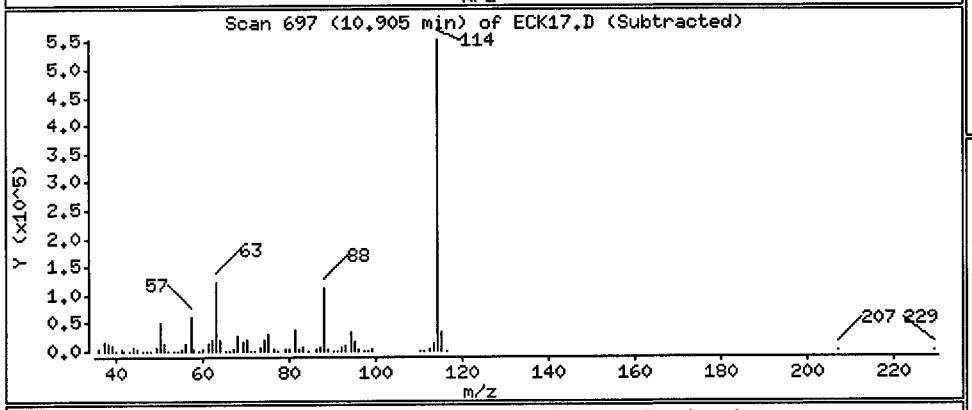
Column phase: RTX 624

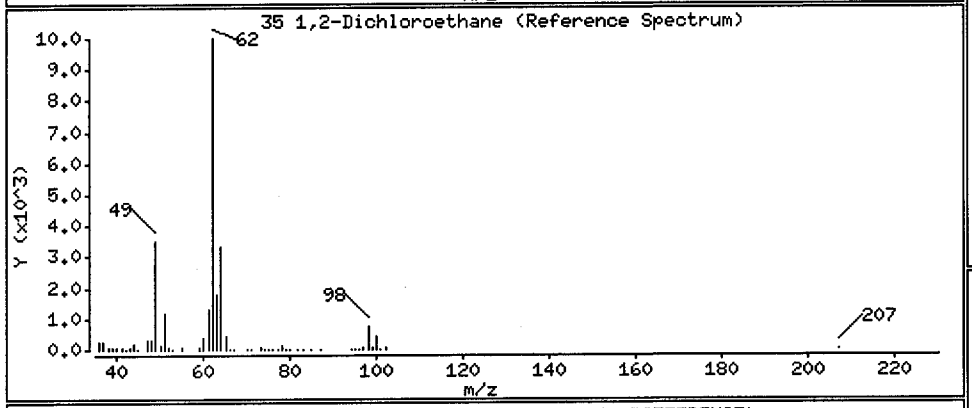
Column diameter: 0.25

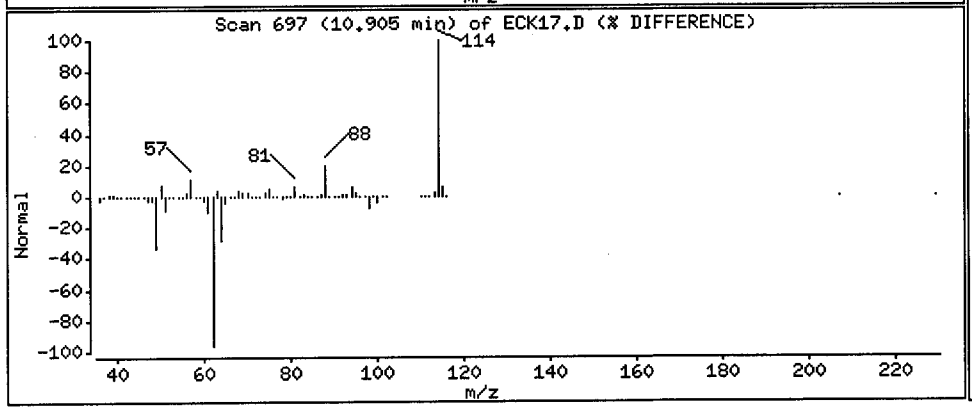
35 1,2-Dichloroethane

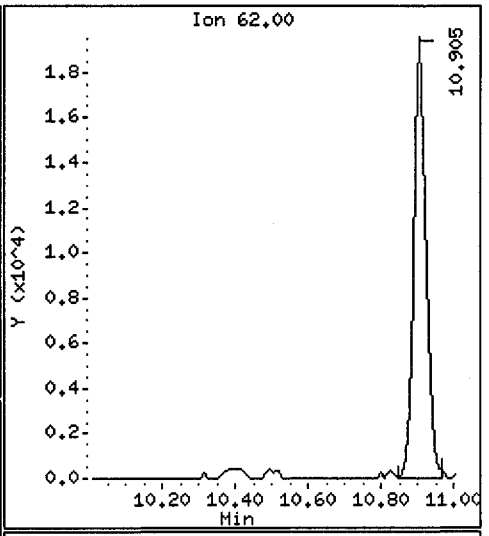
Concentration: 2.9308 UG/L

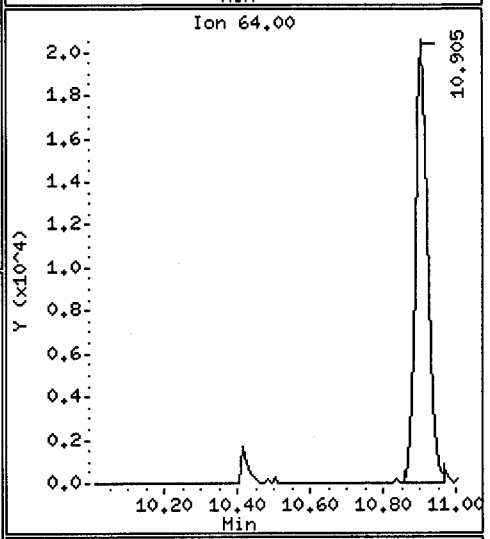


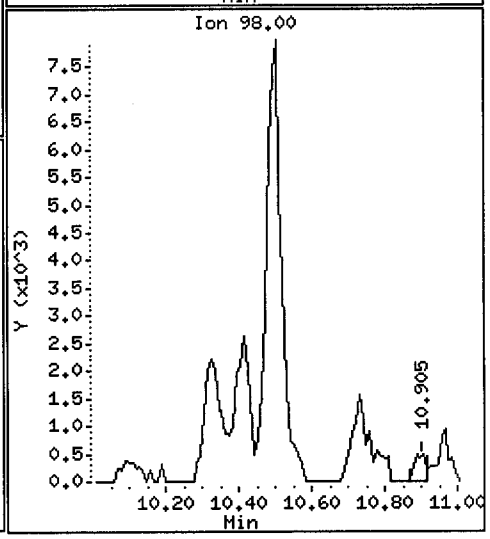












[4-Methyl-2-Pentanone; 0.64 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

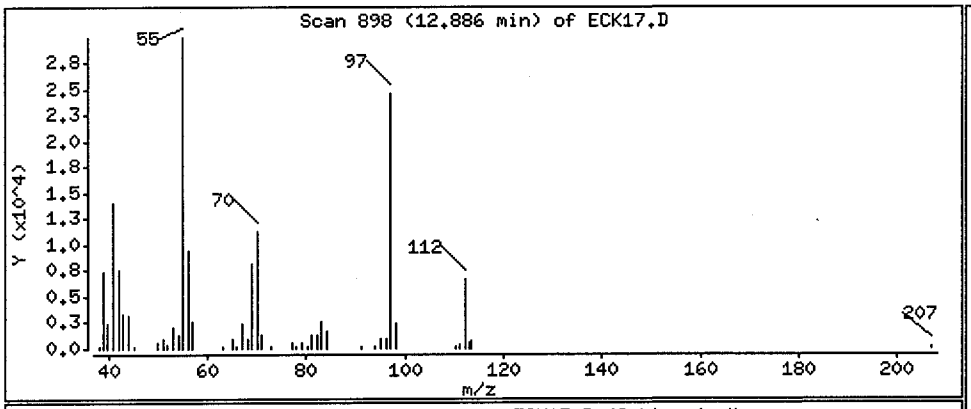
Operator: VOC

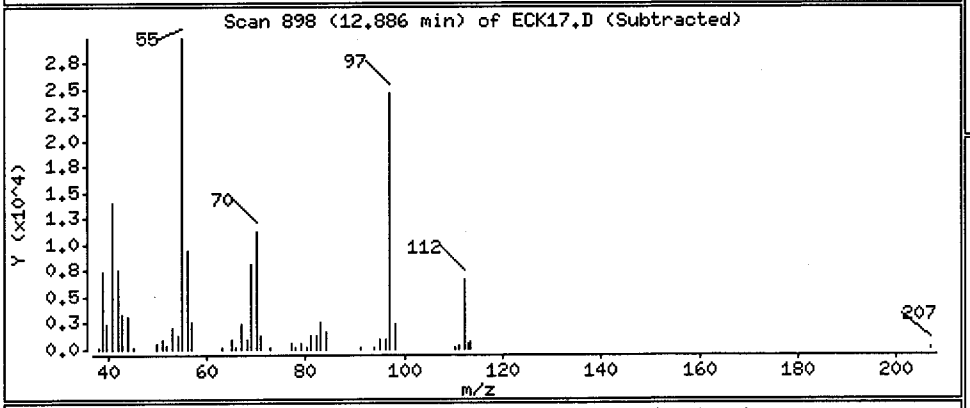
Column phase: RTX 624

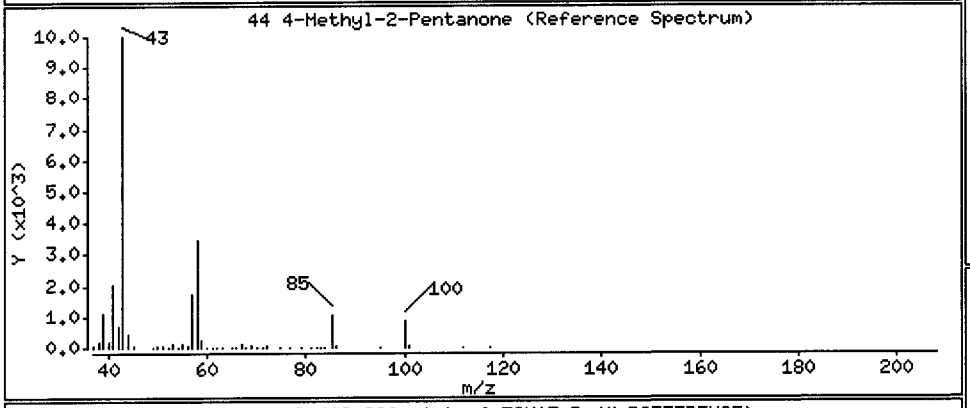
Column diameter: 0.25

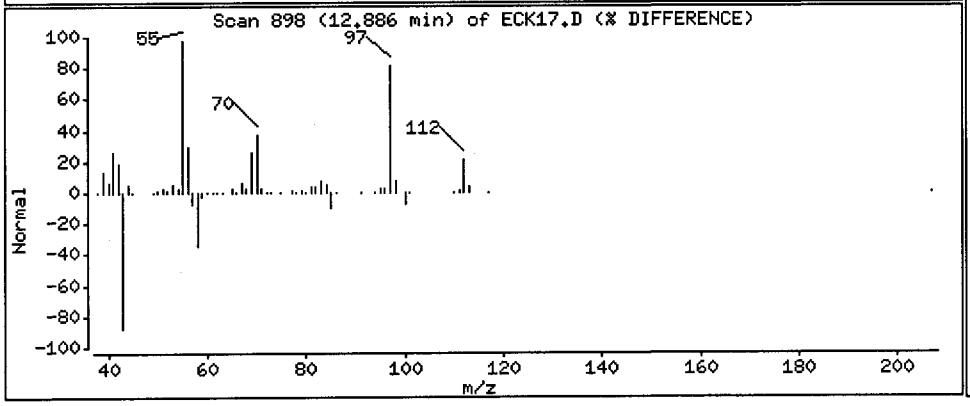
44 4-Methyl-2-Pentanone

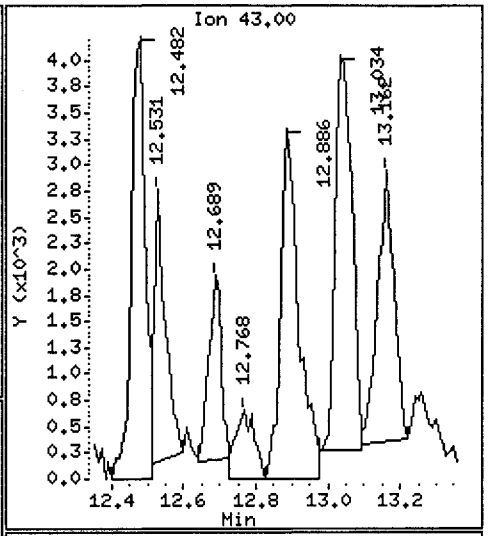
Concentration: 0.7739 UG/L

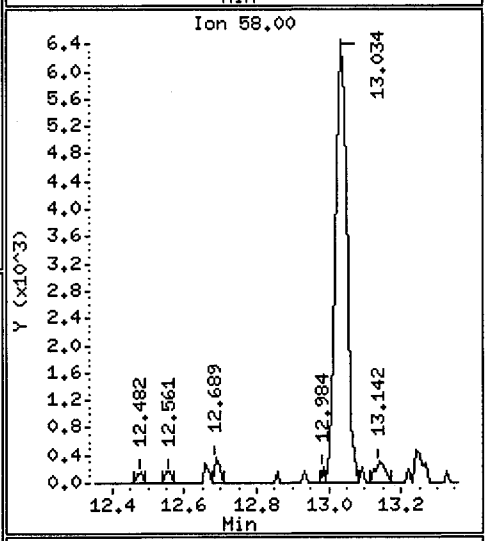


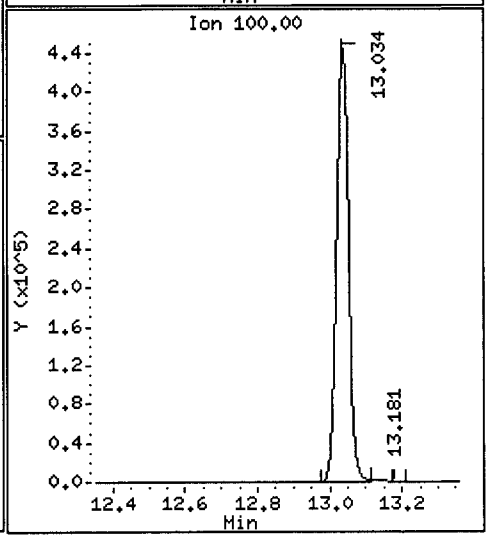












[Isopropylbenzene; 1.2 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

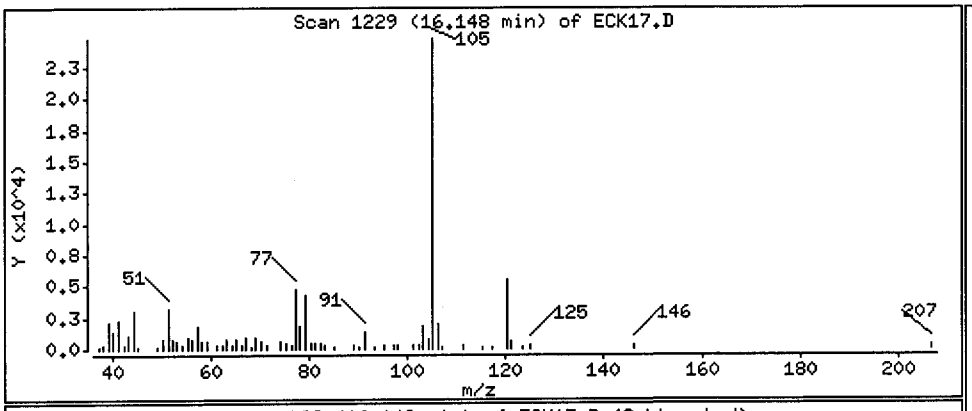
Operator: VOC

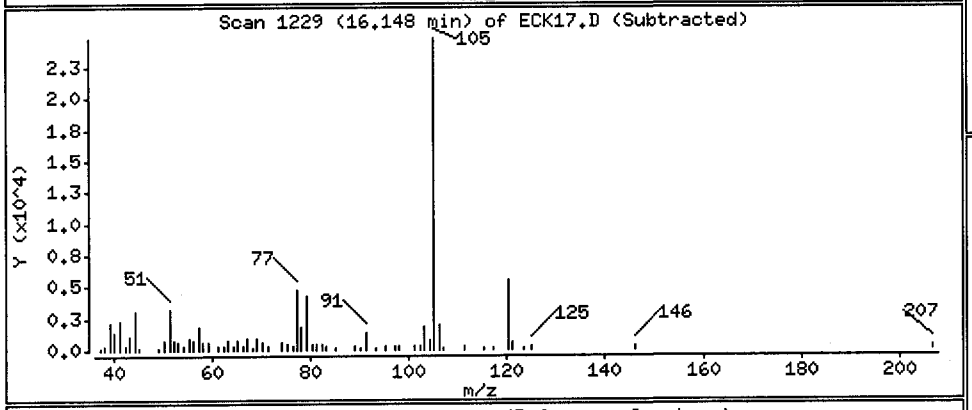
Column phase: RTX 624

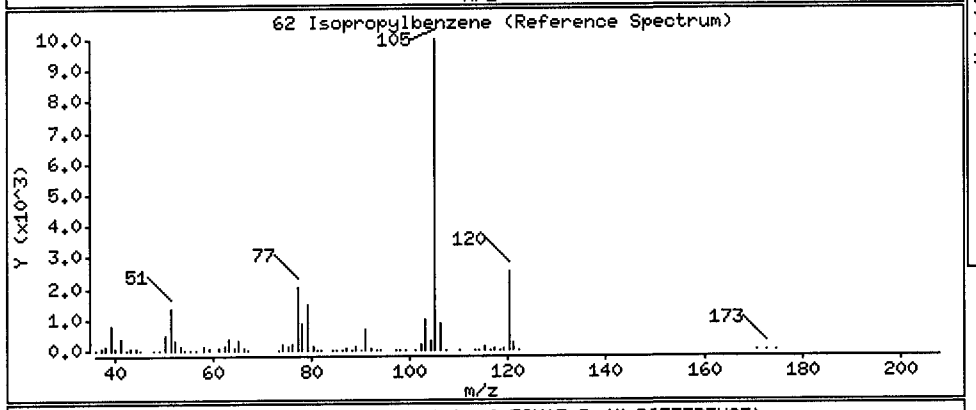
Column diameter: 0.25

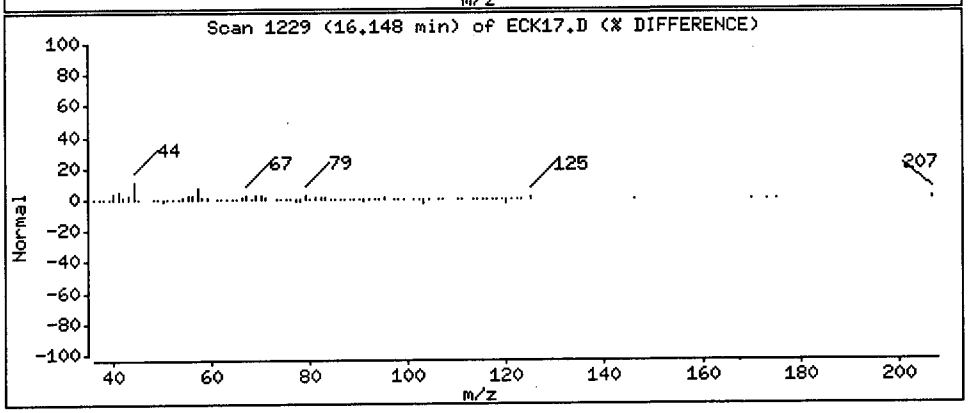
62 Isopropylbenzene

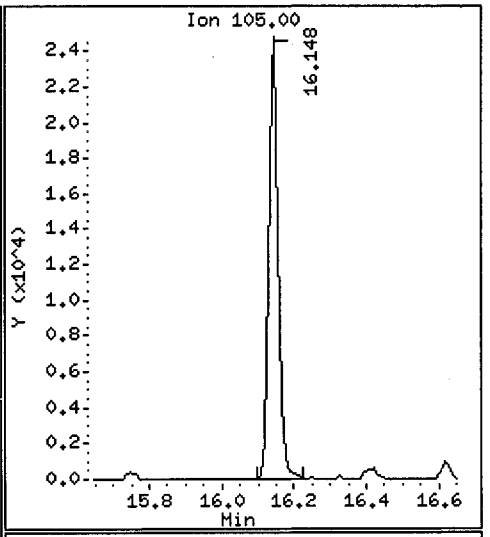
Concentration: 1.4602 UG/L

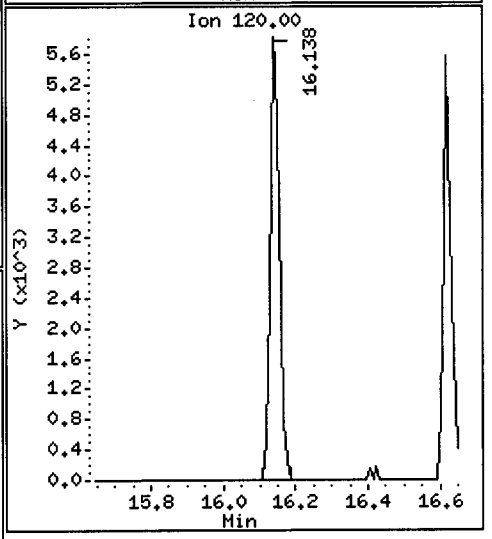












[Propylbenzene; 0.97 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

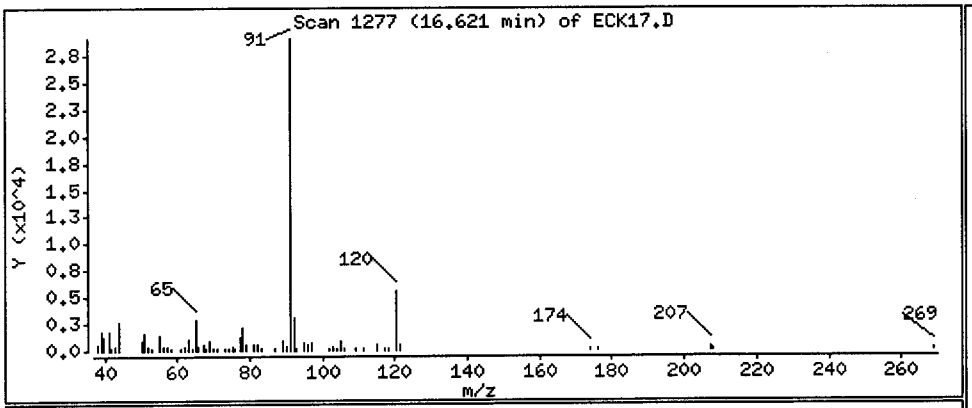
Operator: VOC

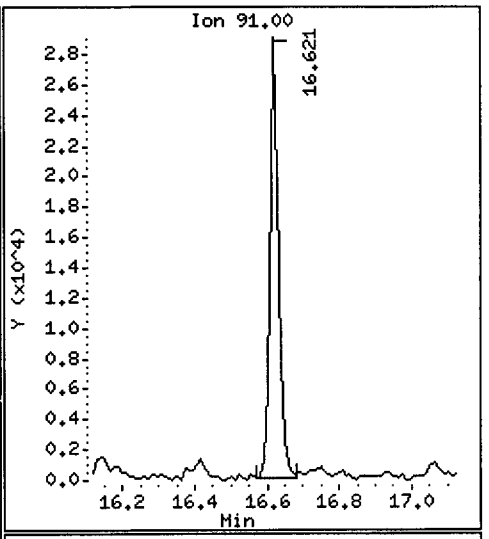
Column phase: RTX 624

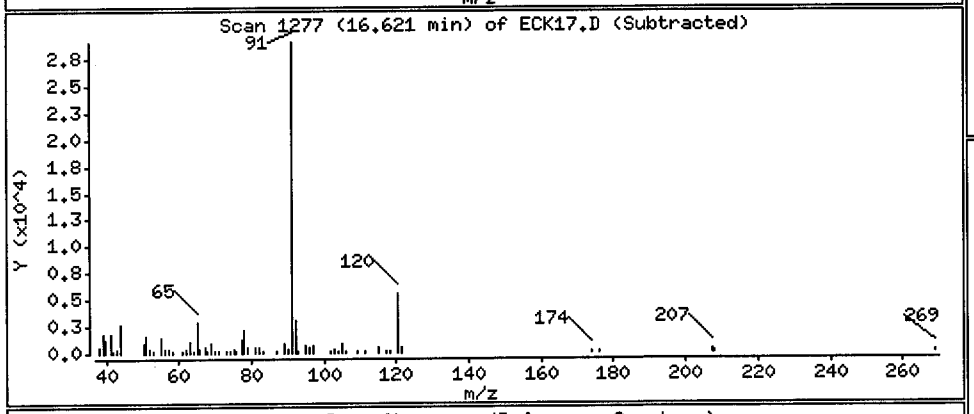
Column diameter: 0.25

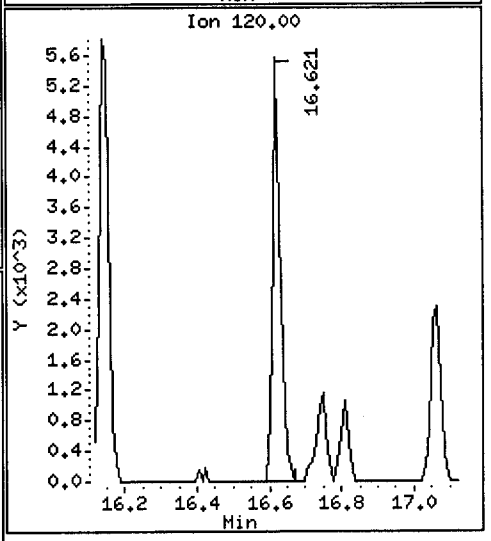
66 Propylbenzene

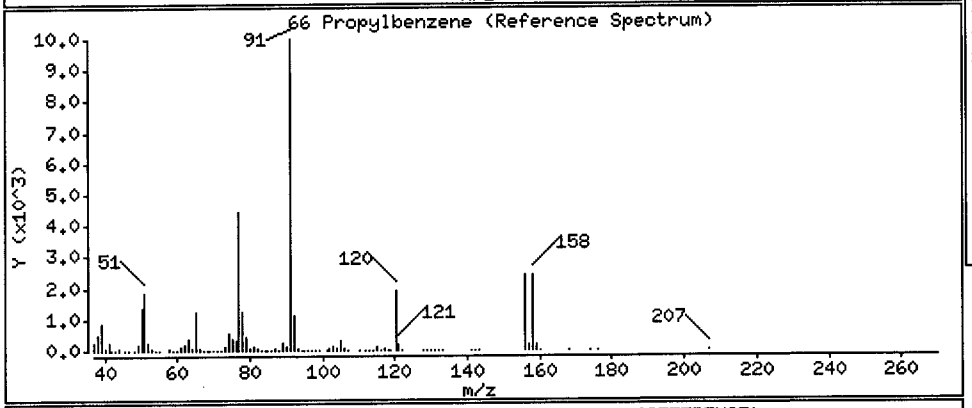
Concentration: 1.1665 UG/L

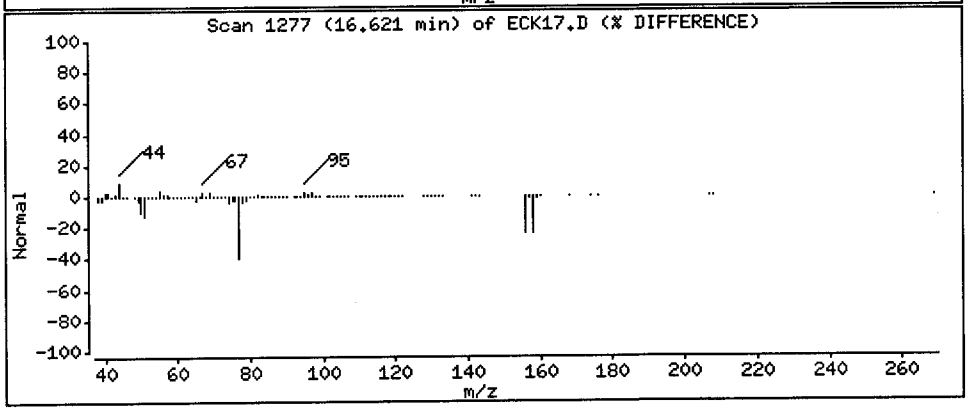












[2-Chlorotoluene; 1.5 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

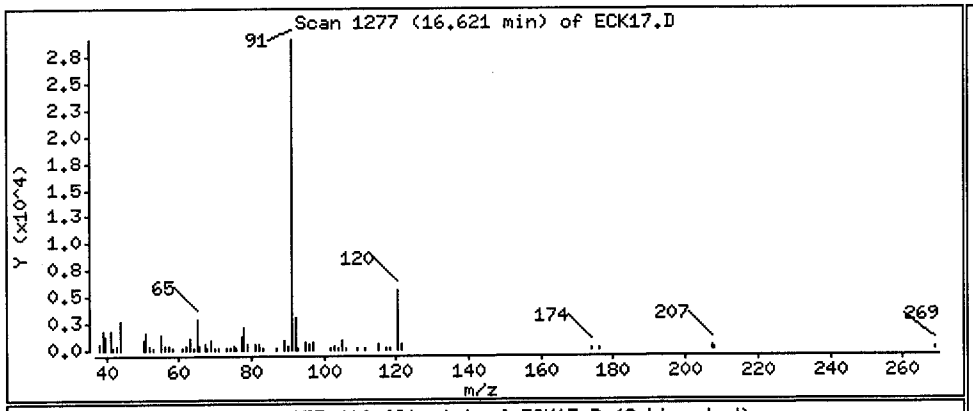
Operator: VOC

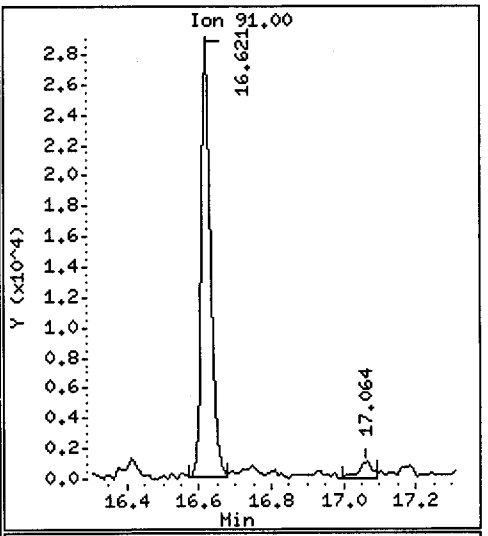
Column phase: RTX 624

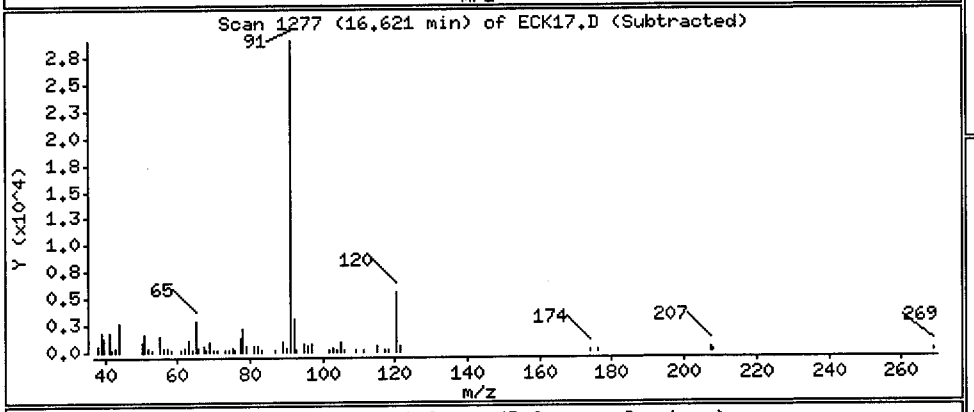
Column diameter: 0.25

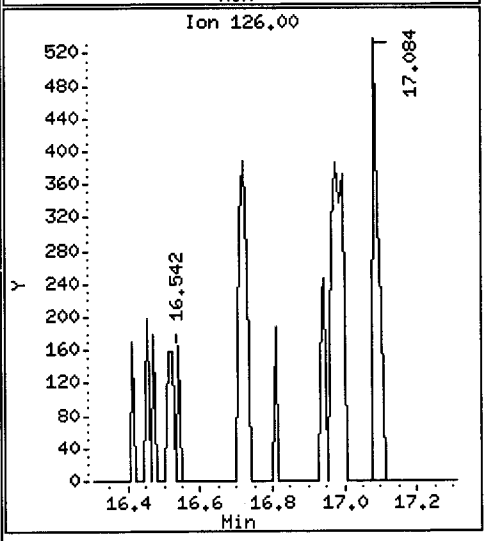
69 2-Chlorotoluene

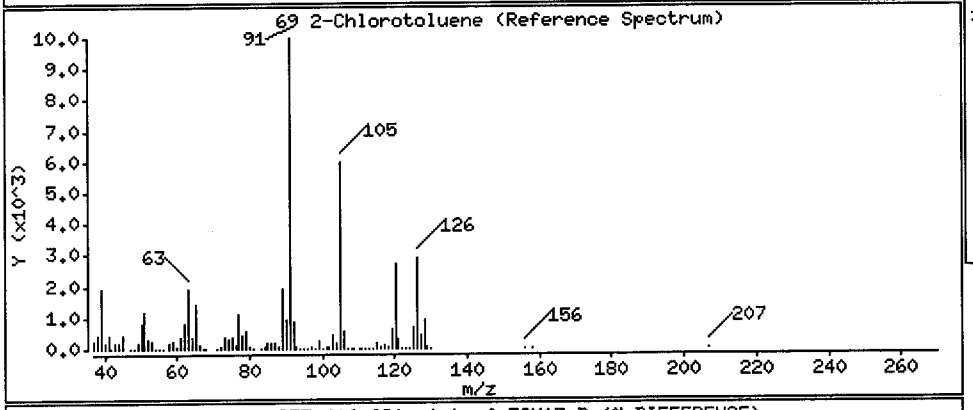
Concentration: 1.7748 UG/L

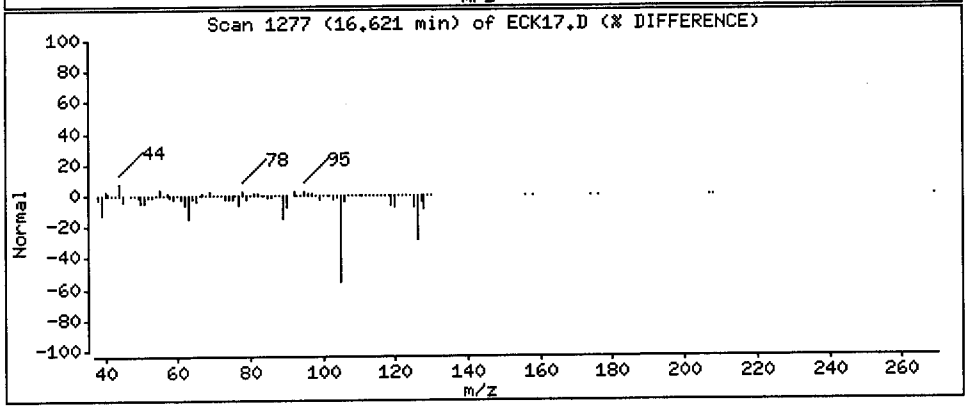












[n-Butylbenzene; 2.0 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

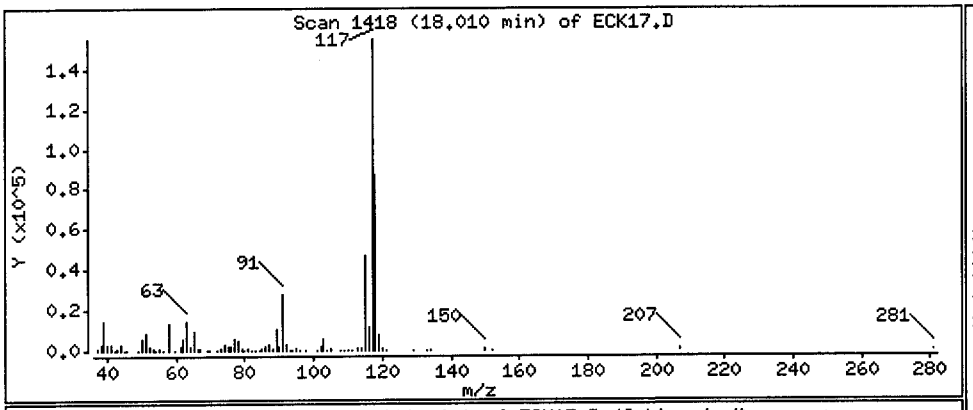
Operator: VOC

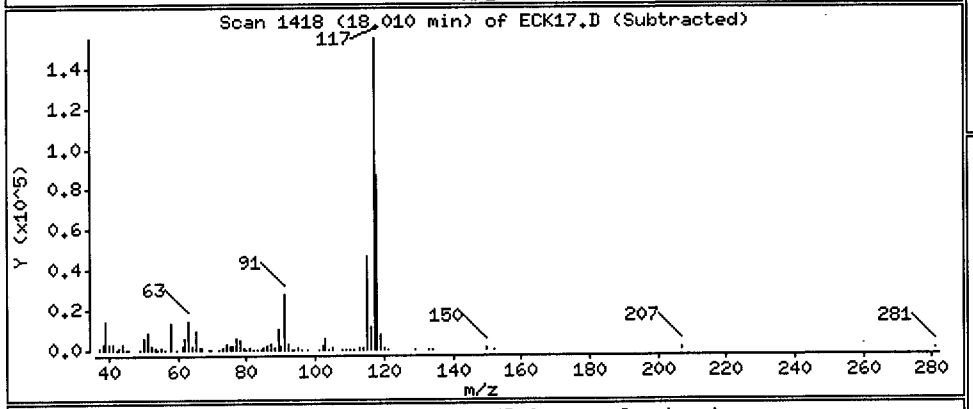
Column phase: RTX 624

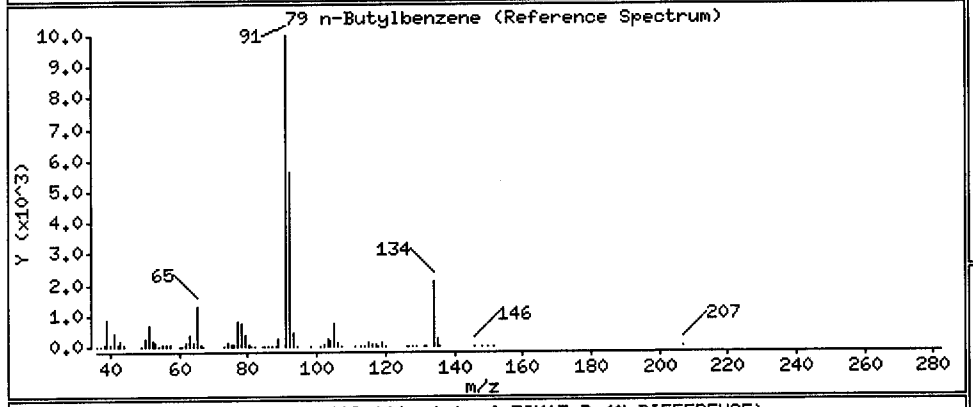
Column diameter: 0.25

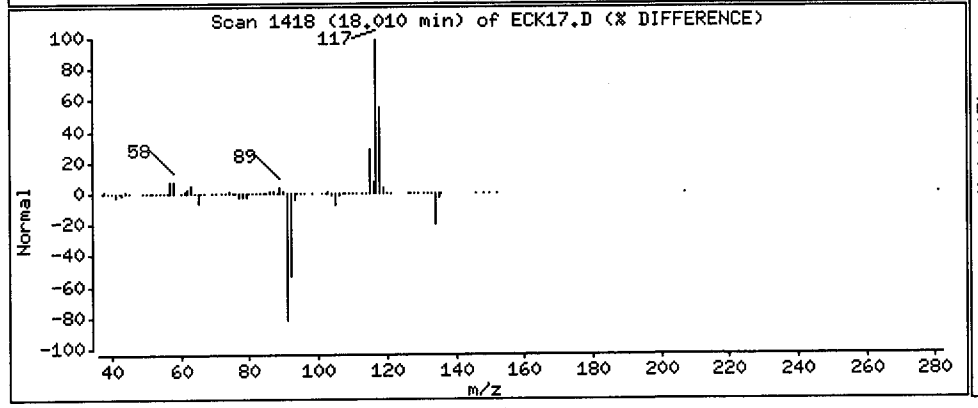
79 n-Butylbenzene

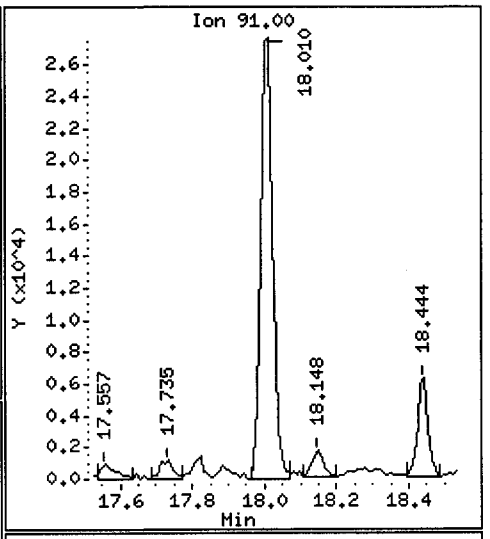
Concentration: 2.3707 UG/L

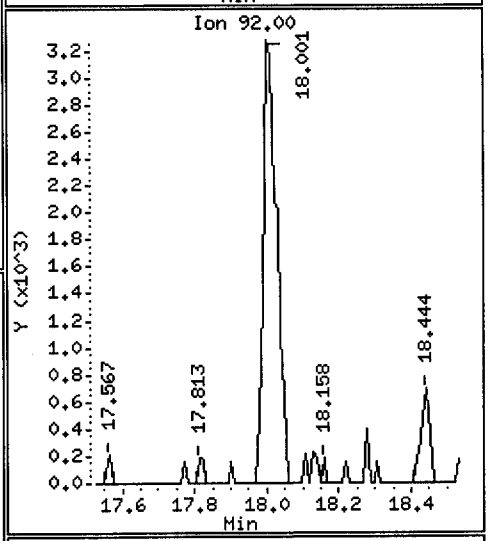


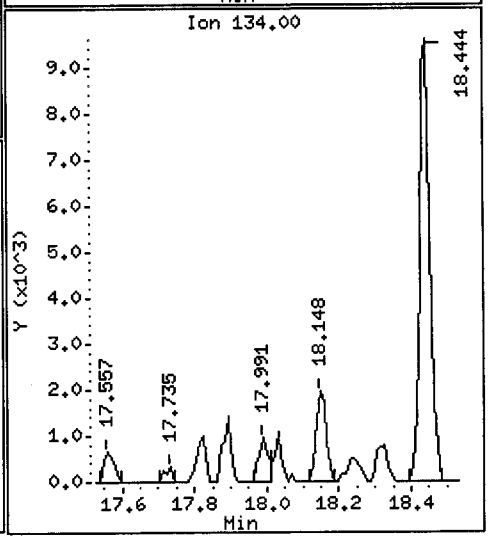












[Naphthalene; 1.5 J; MI; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

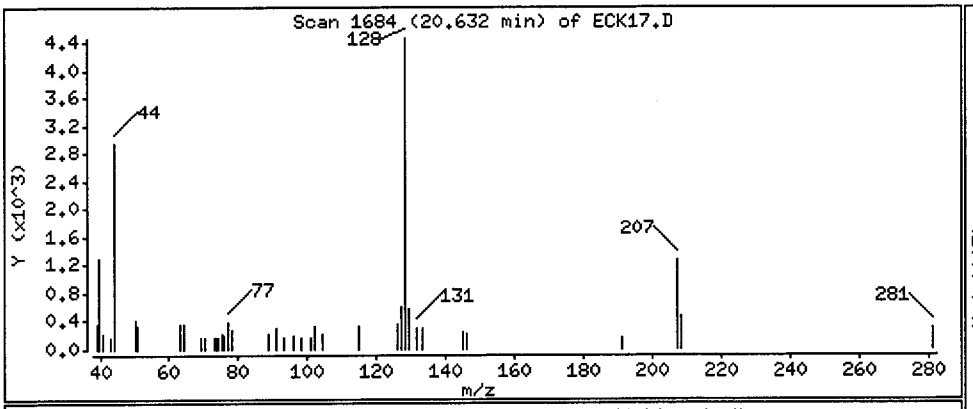
Operator: VOC

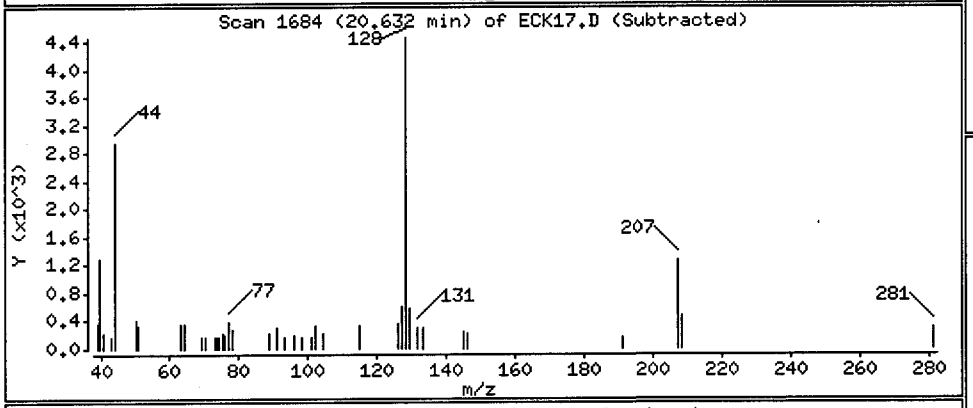
Column phase: RTX 624

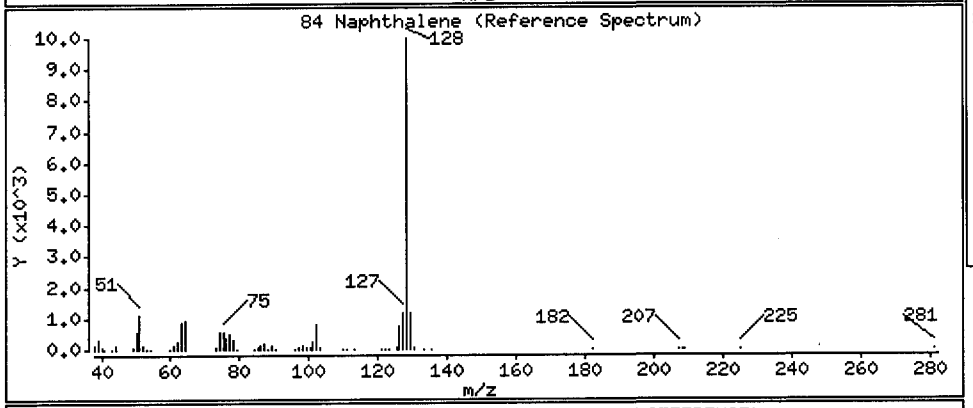
Column diameter: 0.25

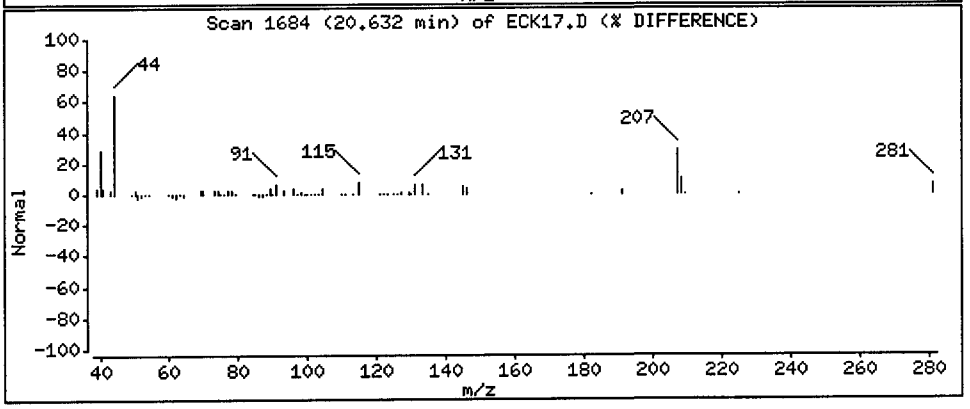
84 Naphthalene

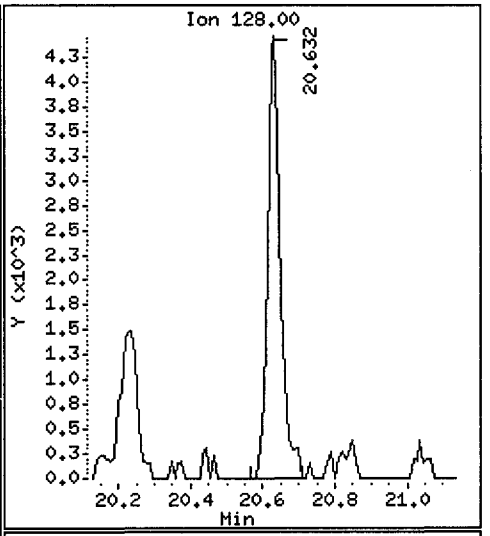
Concentration: 1.7961 UG/L

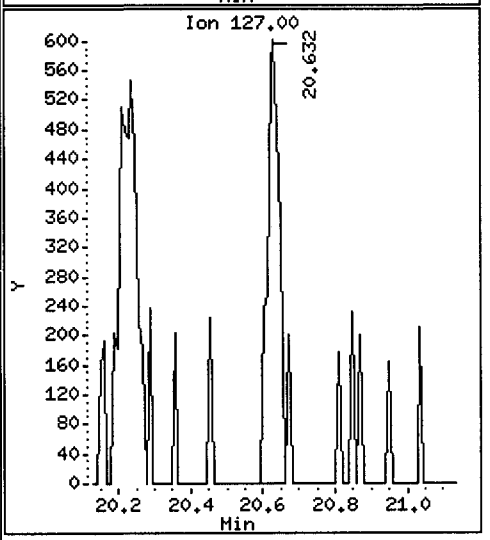












[Naphthalene; before version]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK17.D

Date : 20-MAR-2008 17:03

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-005

Purge Volume: 5.0

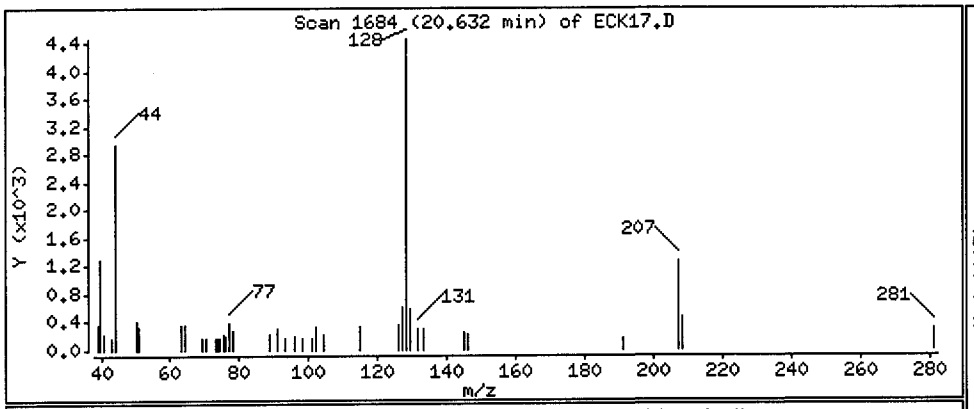
Operator: VOC

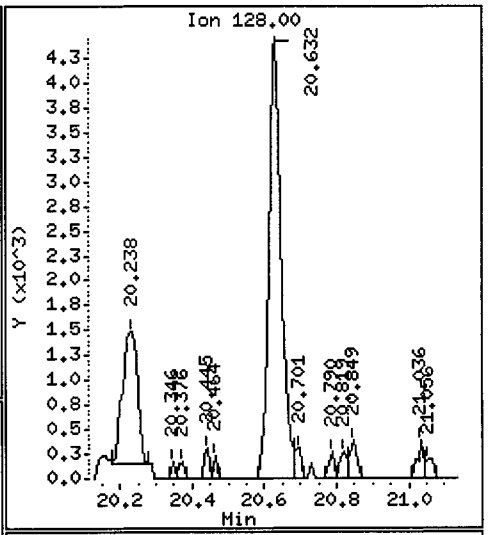
Column phase: RTX 624

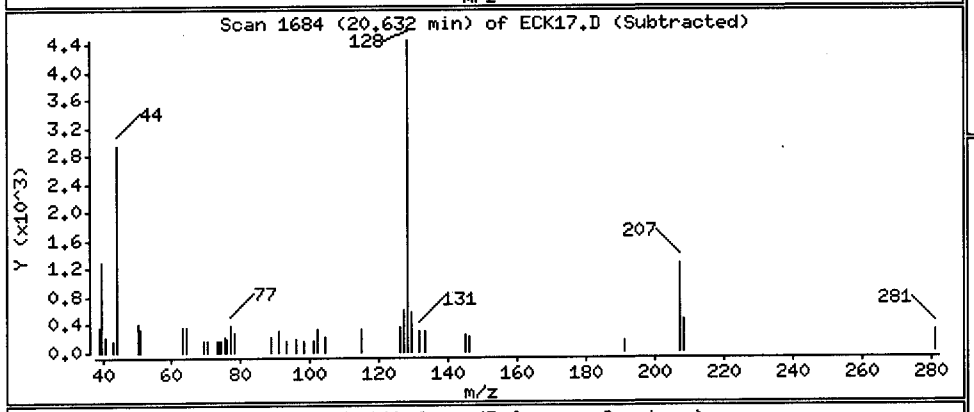
Column diameter: 0.25

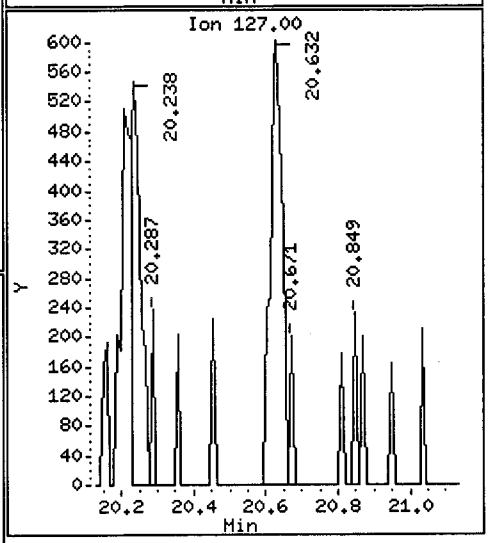
84 Naphthalene

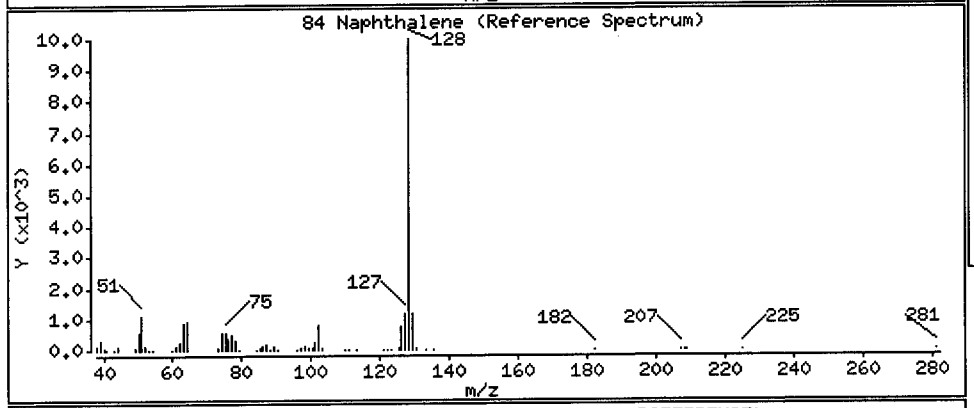
Concentration: 1.7693 UG/L

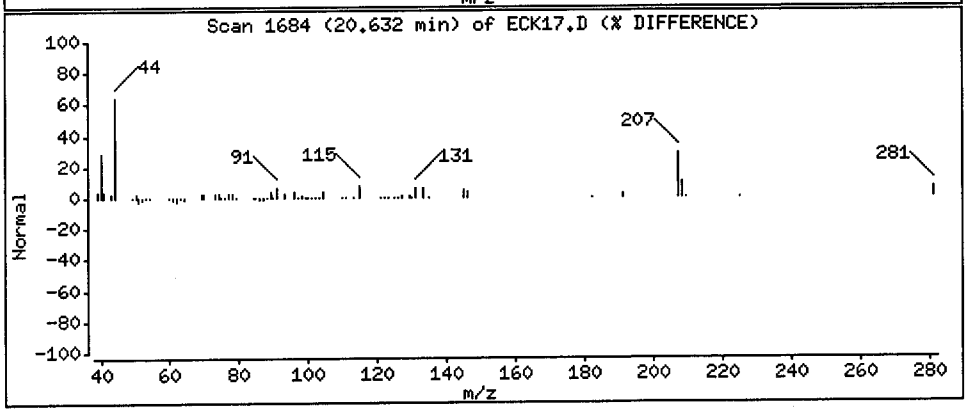












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst	: MSVOA05	Lab ID	: 202043-006	Client ID	: DUP031908
Seqnum	: 448115696018	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: eck18	Batch	: 136185	Time	: 20-MAR-2008 17:37
Cal	: 448110396001	Caldate	: 16-MAR-2008	Caltype	: SOIL
IDF	: 0.8197			Units	: ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	ND		8.2		u v-
Chloromethane	ND		8.2		u
Vinyl Chloride	ND		8.2		u
Bromomethane	ND		8.2		c+ u
Chloroethane	ND		8.2		u
Trichlorofluoromethane	ND		4.1		u v-
Acetone	41		16		u
Freon 113	ND		4.1		c- u
1,1-Dichloroethene	ND		4.1		u
Methylene Chloride	0.57 J		16	0.64	u
Carbon Disulfide	ND		4.1		u
MTBE	ND		4.1		u
trans-1,2-Dichloroethene	ND		4.1		u
Vinyl Acetate	ND		41		u
1,1-Dichloroethane	ND		4.1		u
2-Butanone	4.7 J		8.2		u
cis-1,2-Dichloroethene	ND		4.1		u
2,2-Dichloropropane	ND		4.1		u
Chloroform	ND		4.1		u
Bromochloromethane	ND		4.1		u
1,1,1-Trichloroethane	ND		4.1		u
1,1-Dichloropropene	4.3	-0.291	4.1		u x
Carbon Tetrachloride	5.4	-0.272	4.1		u x
1,2-Dichloroethane	2.5 J	0.409	4.1		u x
Benzene	0.23 J		4.1		u
Trichloroethene	ND		4.1		u
1,2-Dichloropropane	ND		4.1		u
Bromodichloromethane	ND		4.1		u
Dibromomethane	ND		4.1		u
4-Methyl-2-Pentanone	ND		8.2		u
cis-1,3-Dichloropropene	ND		4.1		u
Toluene	ND		4.1		u
trans-1,3-Dichloropropene	ND		4.1		u
1,1,2-Trichloroethane	ND		4.1		u
2-Hexanone	ND		8.2		u
1,3-Dichloropropane	ND		4.1		u
Tetrachloroethene	ND		4.1		u
Dibromochloromethane	ND		4.1		u
1,2-Dibromoethane	ND		4.1		u
Chlorobenzene	ND		4.1		u
1,1,1,2-Tetrachloroethane	ND		4.1		u
Ethylbenzene	ND		4.1		u
m,p-Xylenes	ND		4.1		u
o-Xylene	ND		4.1		u
Styrene	ND		4.1		u
Bromoform	ND		4.1		u
Isopropylbenzene	0.74 J		4.1		u
1,1,2,2-Tetrachloroethane	ND		4.1		u
1,2,3-Trichloropropane	26	-0.242	4.1		u x

448115696018

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	0.56 J		4.1		u
Bromobenzene	ND		4.1		u
1,3,5-Trimethylbenzene	ND		4.1		u
2-Chlorotoluene	0.84 J	-0.173	4.1		u x
4-Chlorotoluene	0.94 J	-0.301	4.1		u x
tert-Butylbenzene	ND		4.1		u
1,2,4-Trimethylbenzene	ND		4.1		u
sec-Butylbenzene	ND		4.1		u
para-Isopropyl Toluene	ND		4.1		u
1,3-Dichlorobenzene	ND		4.1		u
1,4-Dichlorobenzene	ND		4.1		u
n-Butylbenzene	1.2 J		4.1		l u x
1,2-Dichlorobenzene	ND		4.1		u
1,2-Dibromo-3-Chloropropane	ND		4.1		u
1,2,4-Trichlorobenzene	ND		4.1		u
Hexachlorobutadiene	ND		4.1		u
Naphthalene	0.82 J		4.1	1.6	?curve+ u x
1,2,3-Trichlorobenzene	ND		4.1	0.57	u

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	40.98	33.93	83	78-126	u
1,2-Dichloroethane-d4	40.98	36.65	89	76-137	u
Toluene-d8	40.98	41.08	100	80-120	u
Bromofluorobenzene	40.98	46.28	113	80-121	u

ISTD (ICAL ecg11)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	751961	1107406	47.27	9.80	9.80	0.00
1,4-Difluorobenzene	1093331	1431112	30.89	10.90	10.91	0.01
Chlorobenzene-d5	980726	1223754	24.78	15.00	15.01	0.01
1,4-Dichlorobenzene-d4	574120	603145	5.06	17.72	17.73	0.01

BO 03/21/08 [n-Butylbenzene]: RR 1x, co check

BO 03/21/08 [n-Butylbenzene]: Spectrum does not confirm.

BO 03/21/08 [Naphthalene]: No secondary ion(s) present; spectrum does not confirm.

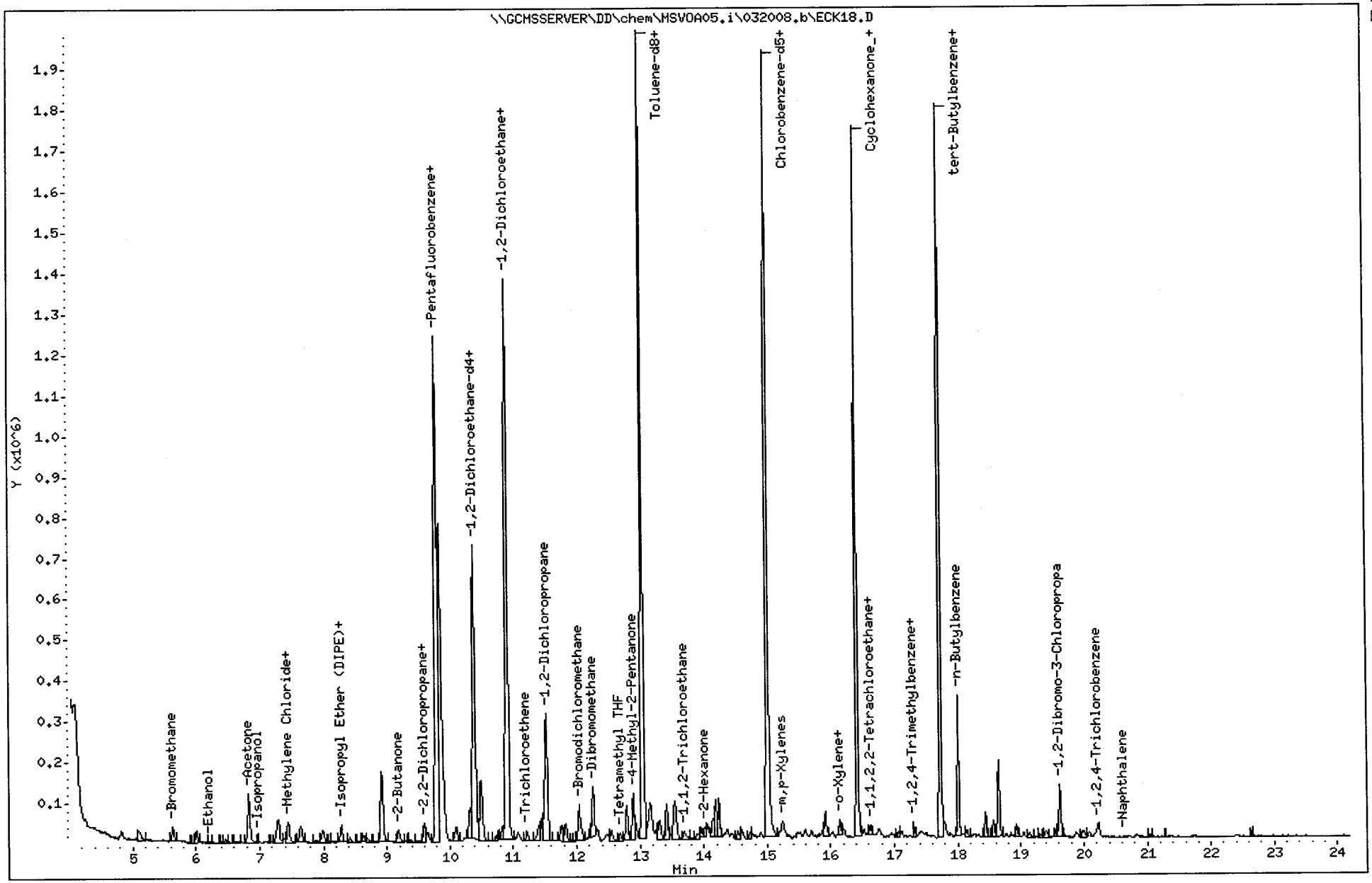
Analyst: BO Date: 03/21/08 Reviewer: MJD Date: 03/21/08

+=high bias -=low bias ?curve=check curve c=CCV l=false positive flag altered u=use v=ICV x=false positive

448115696018

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D
Date : 20-MAR-2008 17:37
Client ID: DYNA P&T
Sample Info: S,202043-006
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D
Report Date: 20-Mar-2008 18:30

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 20-MAR-2008 17:37 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : S,202043-006
Misc Info : 136185,6.1/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4	Bromomethane	94	5.489	5.483	(0.560)	348	0.86999	0.8699
7	Ethanol	45	6.209	6.231	(0.634)	1603	9.23500	9.2350
10	Acetone	43	6.830	6.852	(0.697)	227884	49.8932	49.8932
11	Isopropanol	45	6.928	6.941	(0.707)	1563	1.49079	1.4907
13	Methylene Chloride	84	7.450	7.463	(0.761)	9497	0.70066	0.7006
14	tert-Butyl Alcohol (TBA)	59	7.480	7.483	(0.764)	3606	2.35289	2.3528
17	Isopropyl Ether (DIPE)	45	8.278	8.281	(0.845)	8542	0.14408	0.1440(a)
18	Vinyl Acetate	43	8.288	8.360	(0.846)	6243	0.16234	0.1623(a)
21	2,2-Dichloropropane	77	9.599	9.188	(0.980)	2312	0.11969	0.1196(a)
22	2-Butanone	43	9.185	9.198	(0.938)	50708	5.69582	5.6958
25	Tetrahydrofuran	42	9.569	9.572	(0.977)	1484	0.29815	0.2981(a)
26	Chloroform	83	9.599	9.612	(0.980)	2892	0.10689	0.1068(a)
* 27	Pentafluorobenzene	168	9.796	9.799	(1.000)	1107406	50.0000	
28	Dibromofluoromethane	113	9.845	9.848	(1.005)	554541	41.3962	41.3961
30	Carbon Tetrachloride	117	9.796	10.075	(0.898)	89563	6.61241	6.6124
31	1,1-Dichloropropene	75	9.796	10.094	(0.898)	88712	5.27503	5.2750

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D
Report Date: 20-Mar-2008 18:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	32 1,2-Dichloroethane-d4	65	10.387	10.400	(0.952)	589350	44.7114	44.7113
	33 Benzene	78	10.397	10.400	(0.953)	12999	0.27893	0.2789(a)
	35 1,2-Dichloroethane	62	10.910	10.508	(1.000)	49732	3.05656	3.0565
*	36 1,4-Difluorobenzene	114	10.910	10.912	(1.000)	1431112	50.0000	
	37 Trichloroethene	95	11.235	11.307	(1.030)	1974	0.17843	0.1784(a)
	39 1,2-Dichloropropane	63	11.531	11.730	(1.057)	1939	0.13903	0.1390(a)
	40 Dibromomethane	93	12.260	11.928	(1.124)	1531	0.18210	0.1820(a)
	41 Bromodichloromethane	83	12.043	12.086	(1.104)	3626	0.20906	0.2090(a)
	42 Tetramethyl THF	43	12.684	12.657	(1.163)	3000	0.10007	0.1000(a)
	44 4-Methyl-2-Pentanone	43	12.891	12.854	(1.182)	6713	0.43139	0.4313(a)
	45 Toluene-d8	98	13.038	13.041	(1.195)	1573116	50.1120	50.1119
	46 Toluene	92	13.137	13.140	(1.204)	5330	0.22308	0.2230(a)
	48 1,1,2-Trichloroethane	85	13.709	13.751	(1.257)	1160	0.18977	0.1897(a)
	50 2-Hexanone	43	14.014	13.977	(0.934)	2248	0.20651	0.2065(a)
*	54 Chlorobenzene-d5	117	15.009	15.012	(1.000)	1223754	50.0000	
	56 Ethylbenzene	91	15.098	15.101	(1.006)	5182	0.11653	0.1165(a)
	58 m,p-Xylenes	106	15.236	15.239	(1.015)	5810	0.40480	0.4048(a)
	59 o-Xylene	106	16.143	15.742	(1.076)	2103	0.14379	0.1437(a)
	62 Isopropylbenzene	105	16.143	16.146	(0.911)	29217	0.90556	0.9055
	63 Cyclohexanone_	55	16.409	16.402	(0.925)	5129	3.17893	3.1789
	64 Bromofluorobenzene	95	16.419	16.421	(0.926)	653493	56.4576	56.4575
	65 1,1,2,2-Tetrachloroethane	83	16.705	16.569	(0.942)	1800	0.13947	0.1394(a)
	66 Propylbenzene	91	16.626	16.619	(0.938)	28915	0.67720	0.6772
	68 1,2,3-Trichloropropane	75	16.419	16.658	(0.926)	308370	31.2957	31.2956
	69 2-Chlorotoluene	91	16.626	16.806	(0.938)	28915	1.03036	1.0303
	70 1,3,5-Trimethylbenzene	105	16.803	16.806	(0.948)	2702	0.10790	0.1078(a)
	71 4-Chlorotoluene	91	16.626	16.924	(0.938)	28915	1.14619	1.1461
	72 tert-Butylbenzene	119	17.562	17.180	(0.991)	3113	0.14530	0.1452(a)
	73 1,2,4-Trimethylbenzene	105	17.414	17.239	(0.982)	7846	0.33283	0.3328(a)
	74 sec-Butylbenzene	105	17.414	17.417	(0.982)	7846	0.23083	0.2308(a)
	75 para-Isopropyl Toluene	119	17.562	17.565	(0.991)	3113	0.12271	0.1227(a)
*	77 1,4-Dichlorobenzene-d4	152	17.729	17.732	(1.000)	603145	50.0000	
	79 n-Butylbenzene	91	18.005	18.028	(1.016)	38247	1.50561	1.5056
	81 1,2-Dibromo-3-Chloropropane	75	19.612	19.162	(1.106)	1140	0.53565	0.5356
	82 1,2,4-Trichlorobenzene	180	20.223	20.226	(1.141)	389	0.10663	0.1066(a)
	84 Naphthalene	128	20.627	20.630	(1.163)	885	0.99630	0.9962

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

[Acetone; 41; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

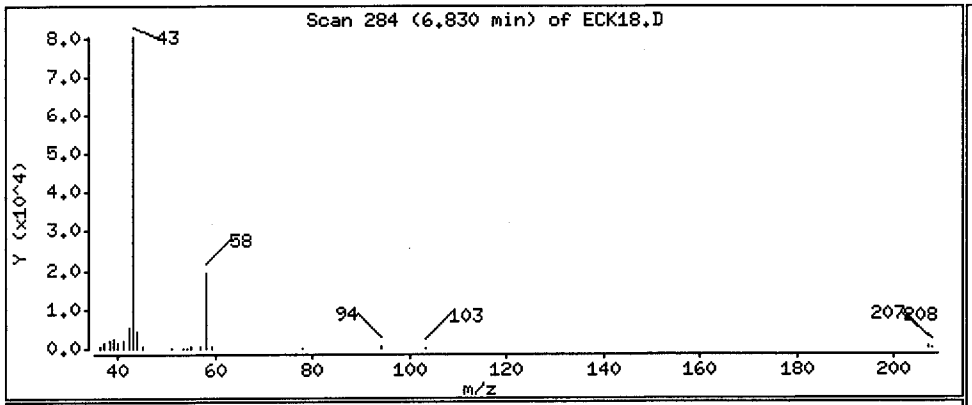
Operator: VOC

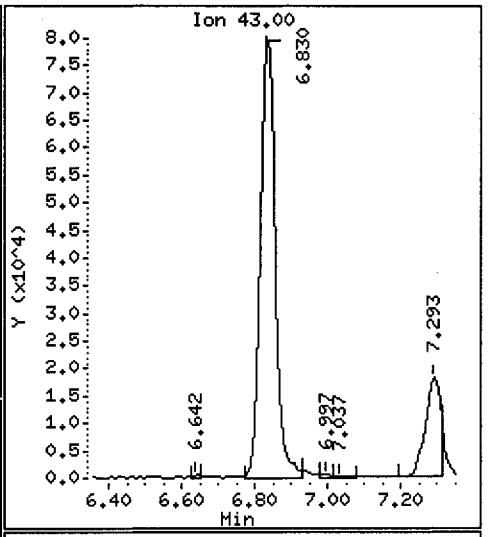
Column phase: RTX 624

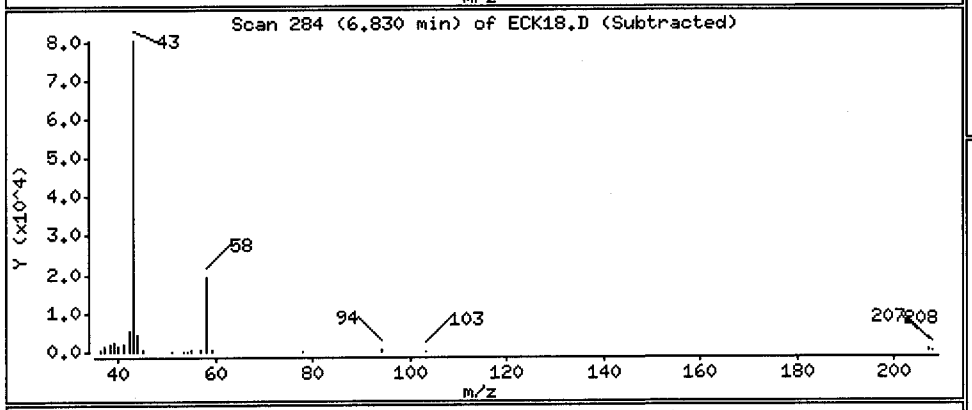
Column diameter: 0.25

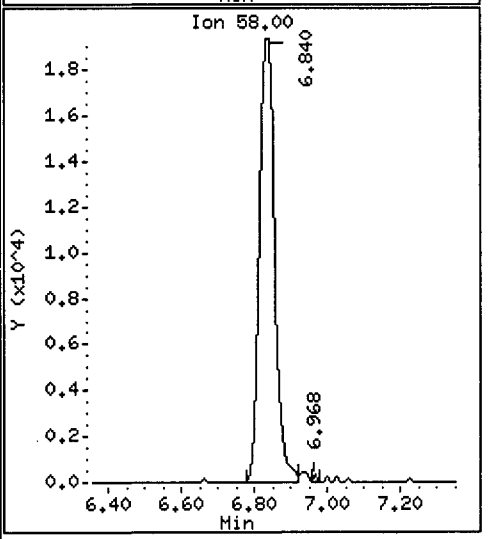
10 Acetone

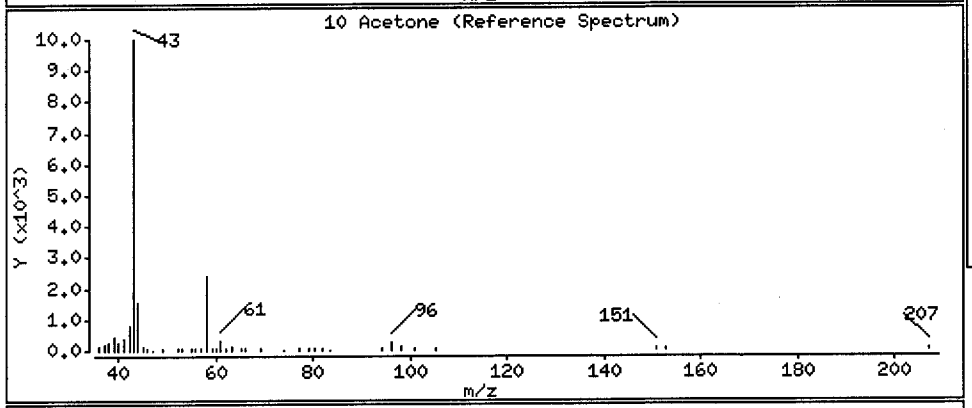
Concentration: 49.8932 UG/L

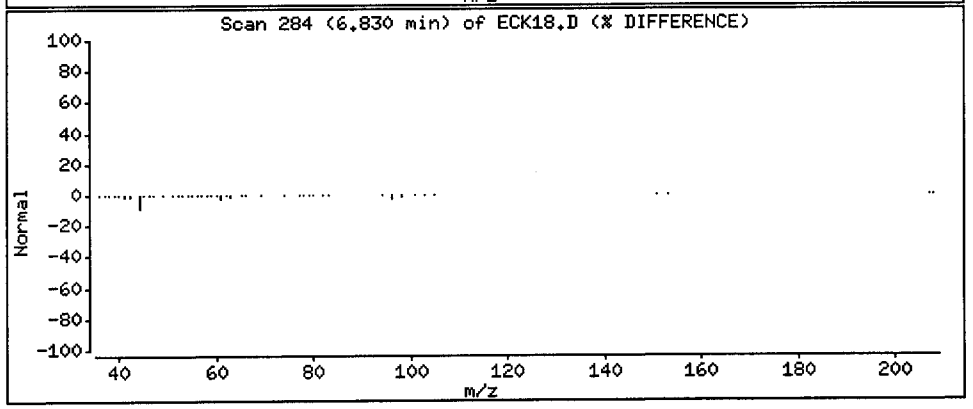












[Methylene Chloride; 0.57 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

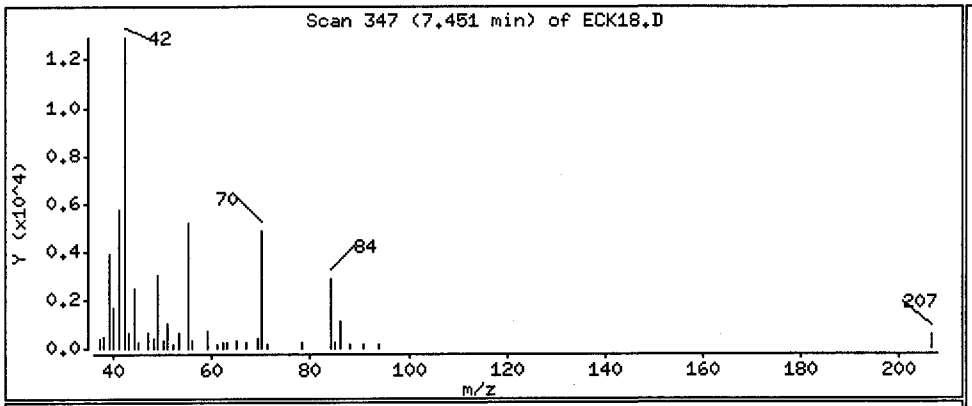
Operator: VOC

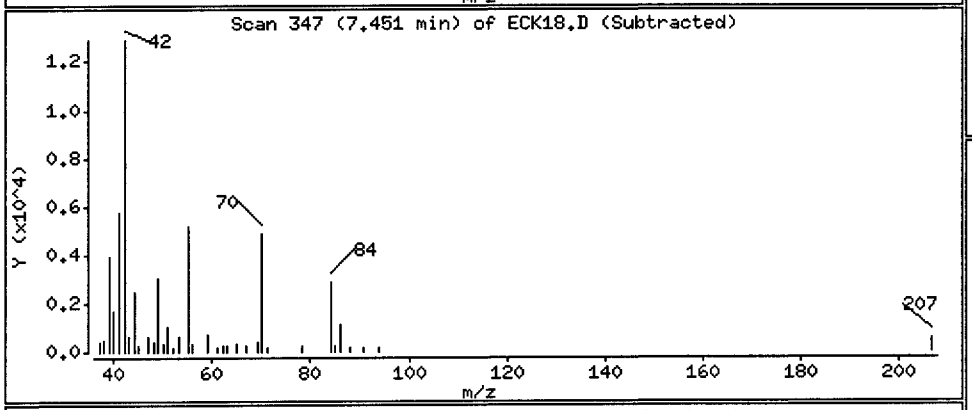
Column phase: RTX 624

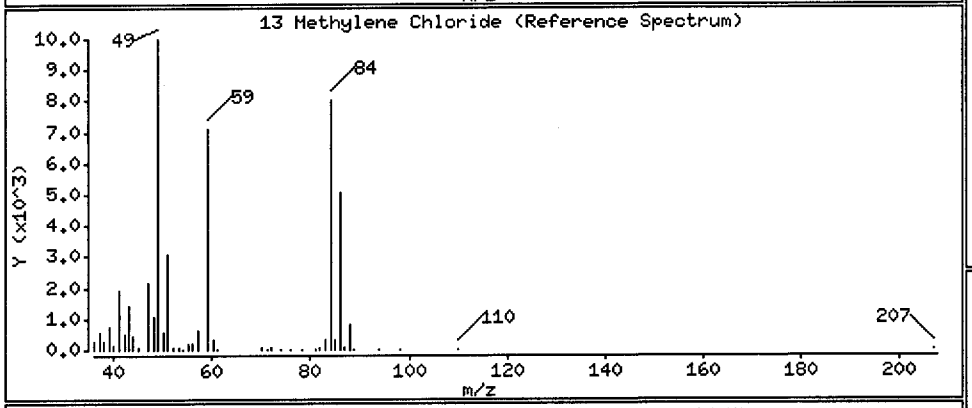
Column diameter: 0.25

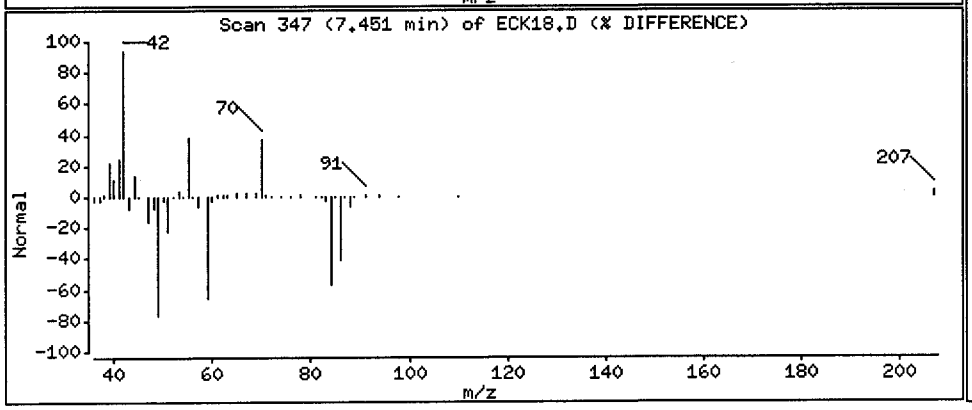
13 Methylene Chloride

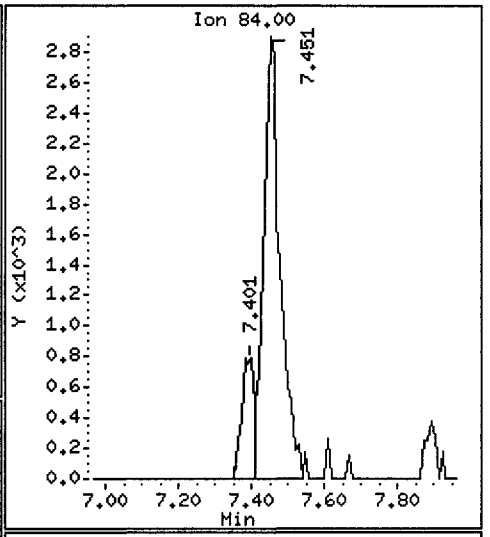
Concentration: 0.7006 UG/L

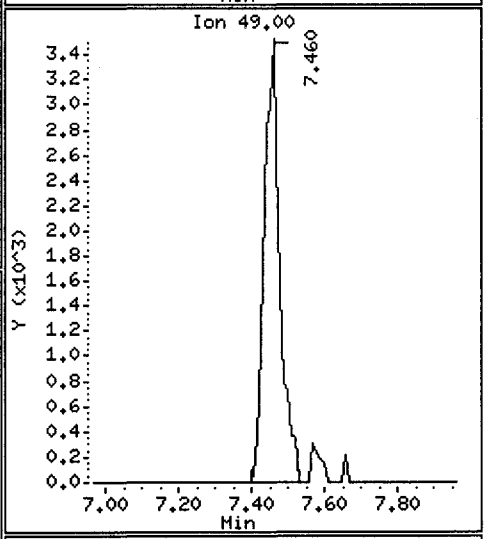


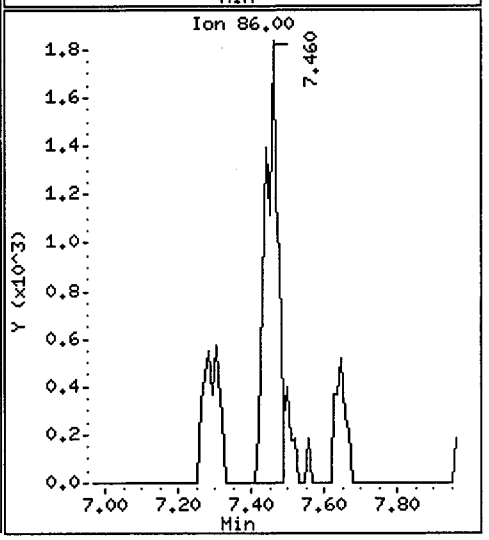












[2-Butanone; 4.7 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

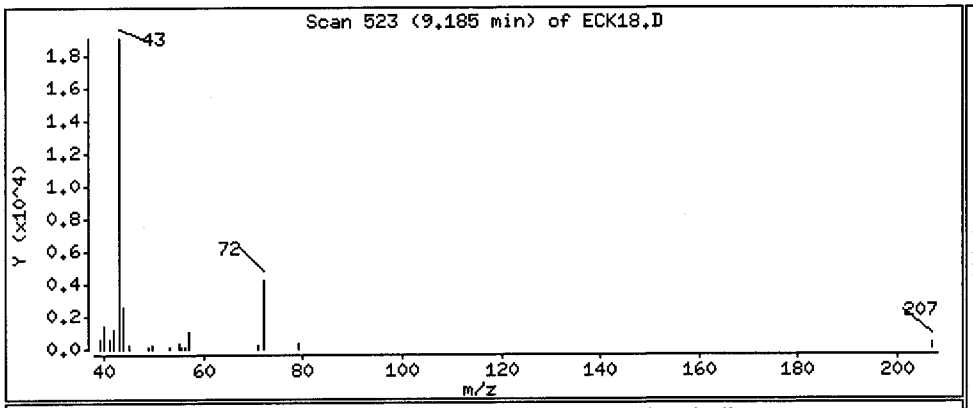
Operator: VOC

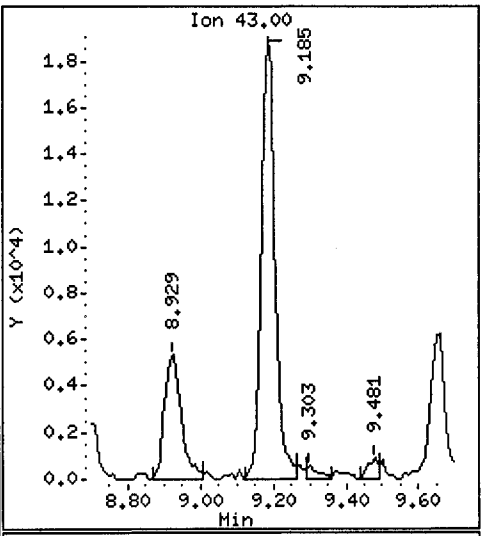
Column phase: RTX 624

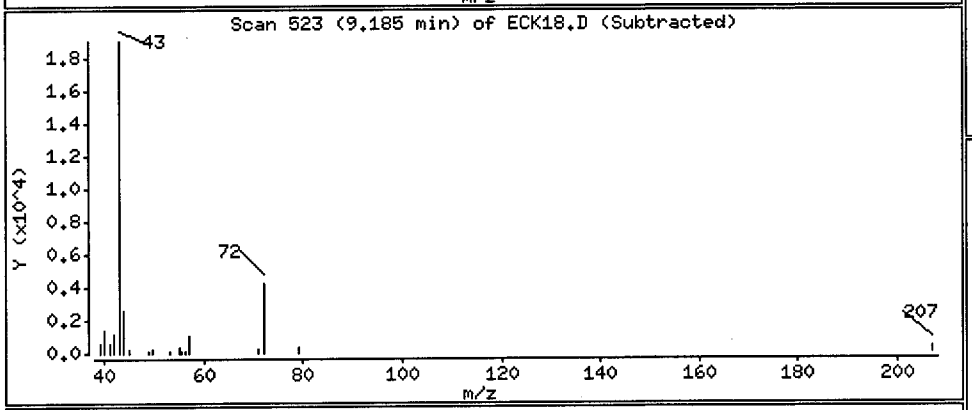
Column diameter: 0.25

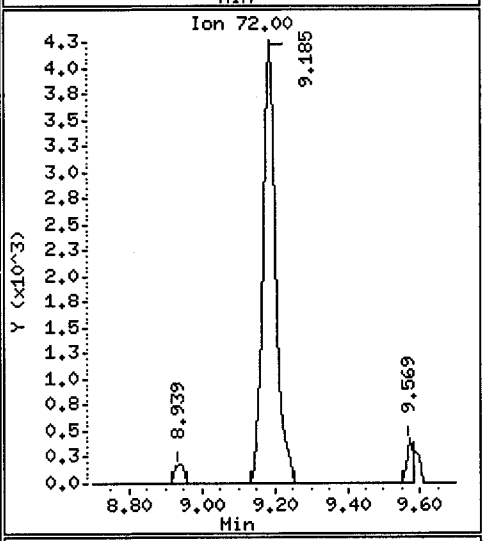
22 2-Butanone

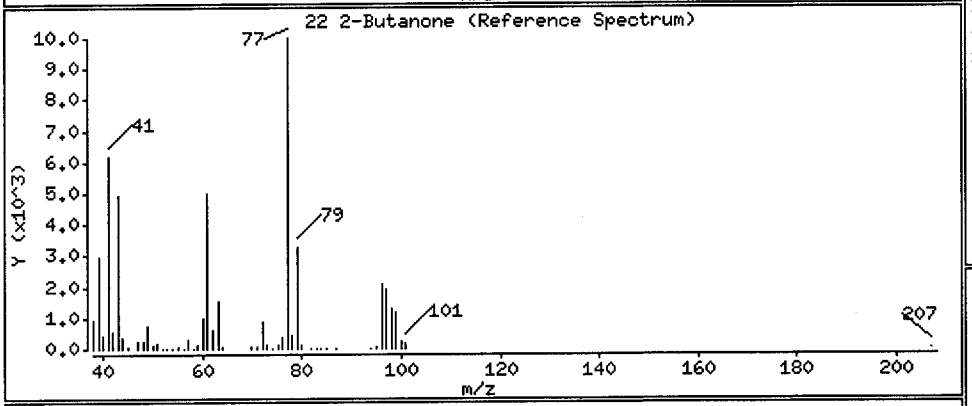
Concentration: 5.6958 UG/L

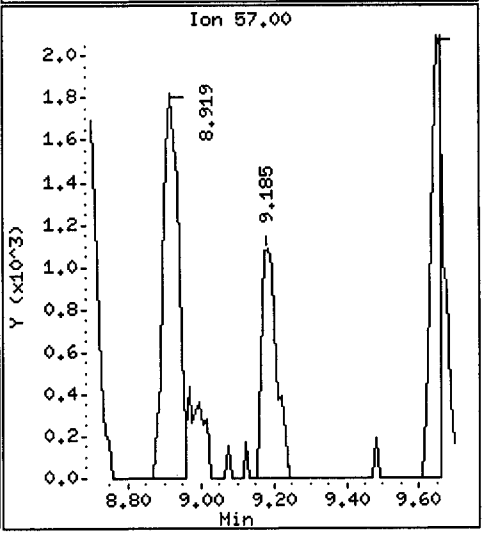


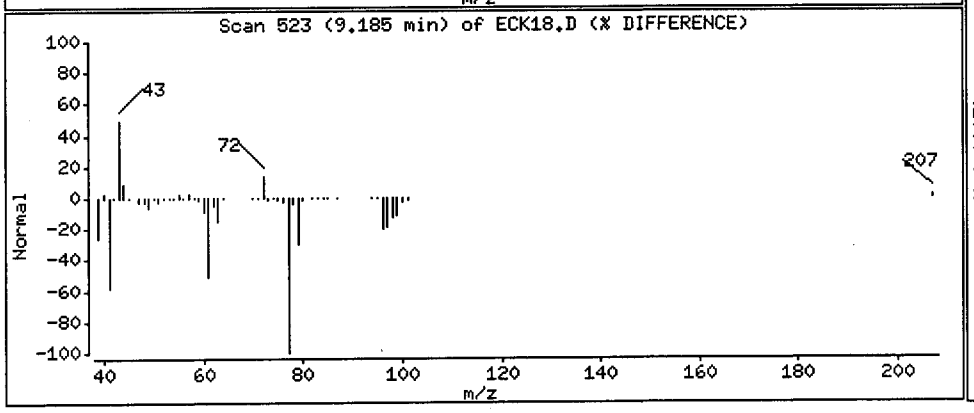












[Carbon Tetrachloride; 5.4; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

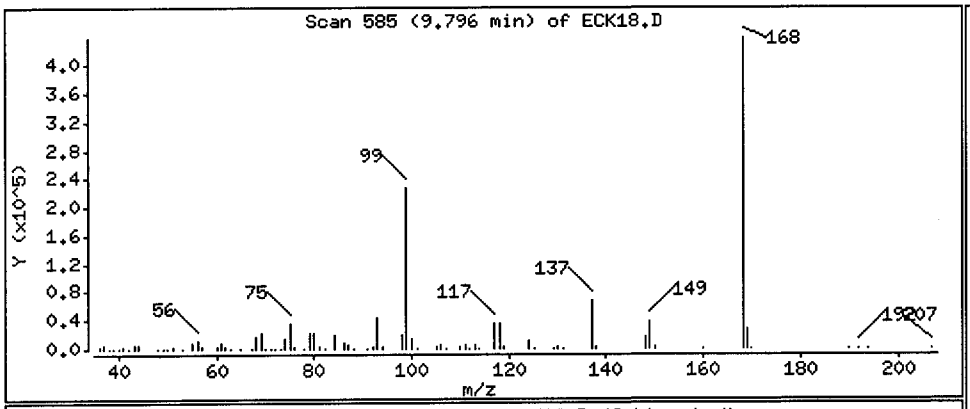
Operator: VOC

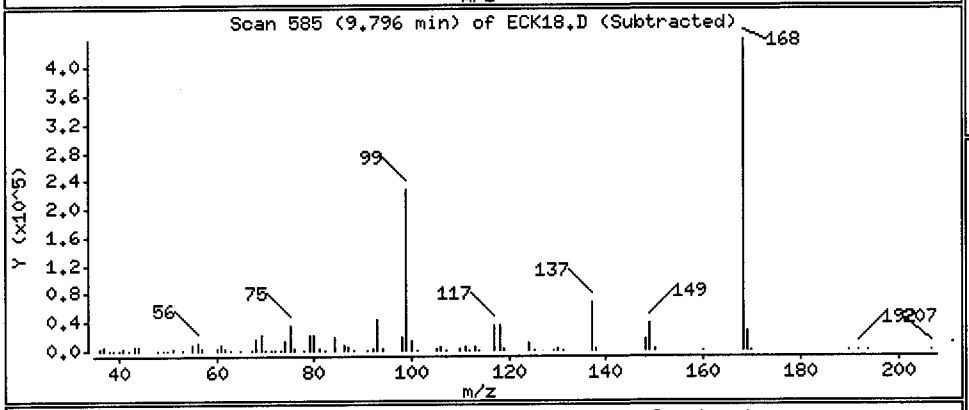
Column phase: RTX 624

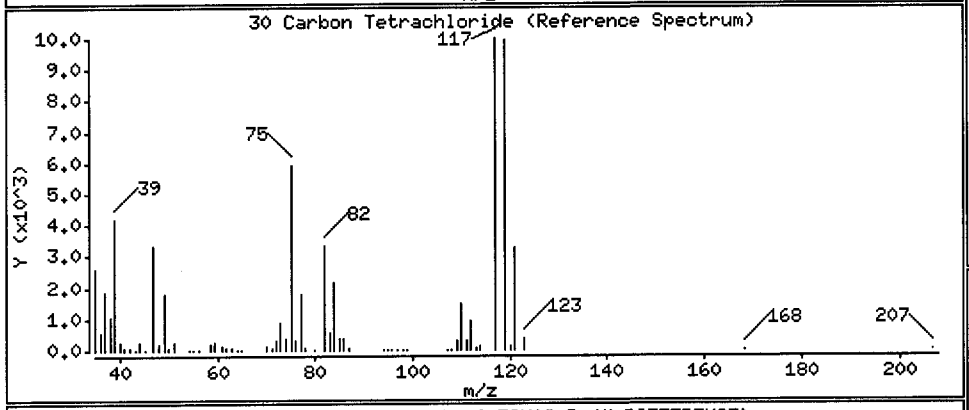
Column diameter: 0.25

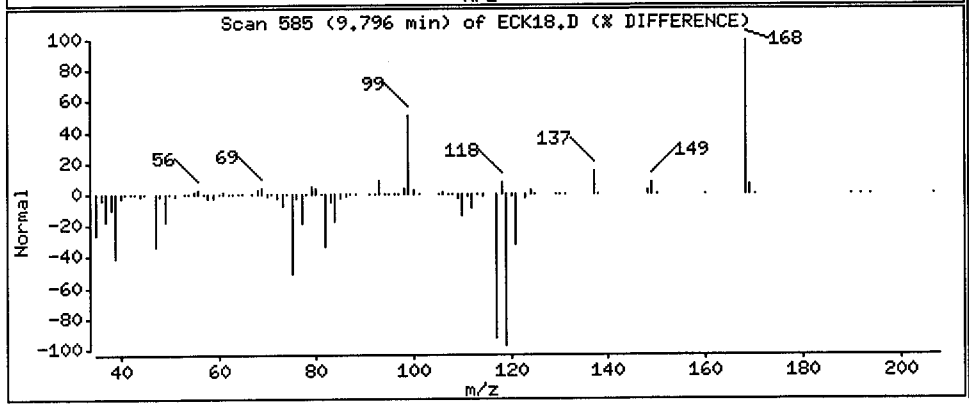
30 Carbon Tetrachloride

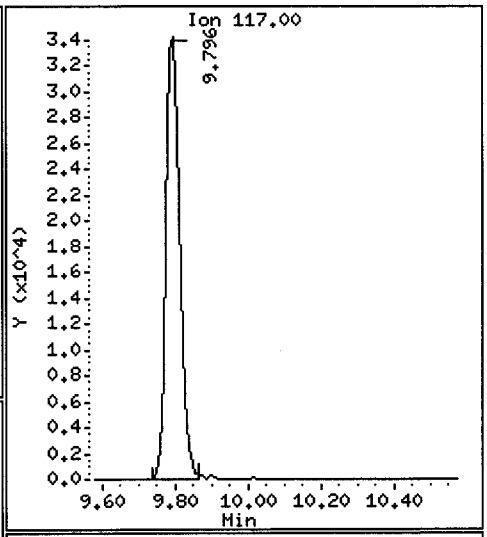
Concentration: 6.6124 UG/L

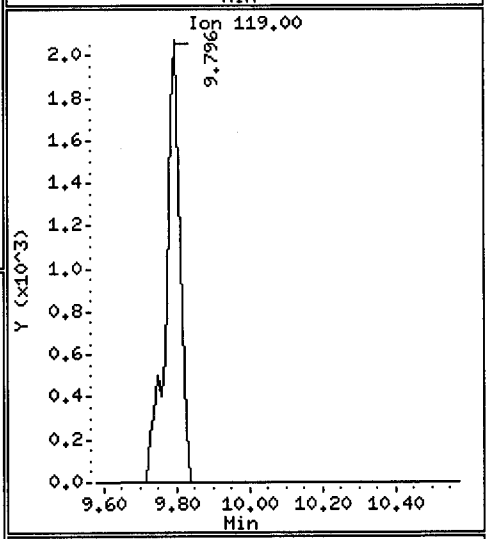


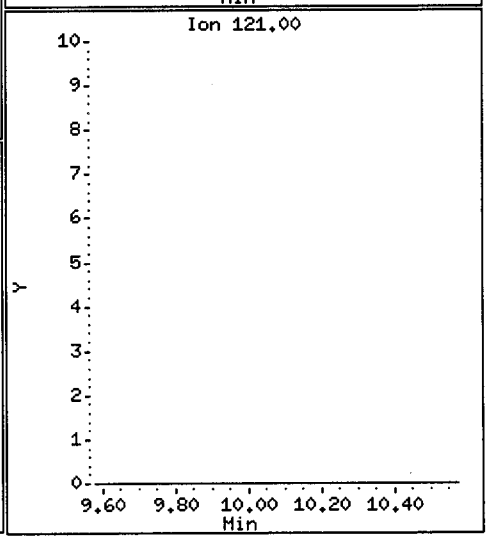












[1,1-Dichloropropene; 4.3; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

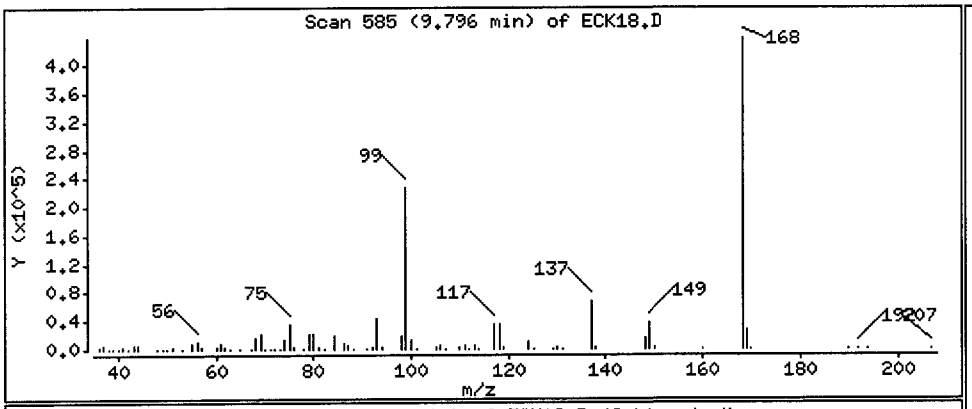
Operator: VOC

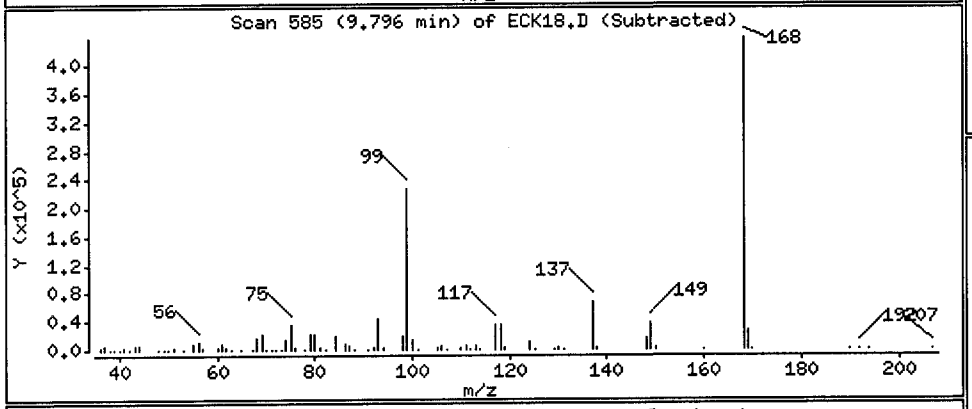
Column phase: RTX 624

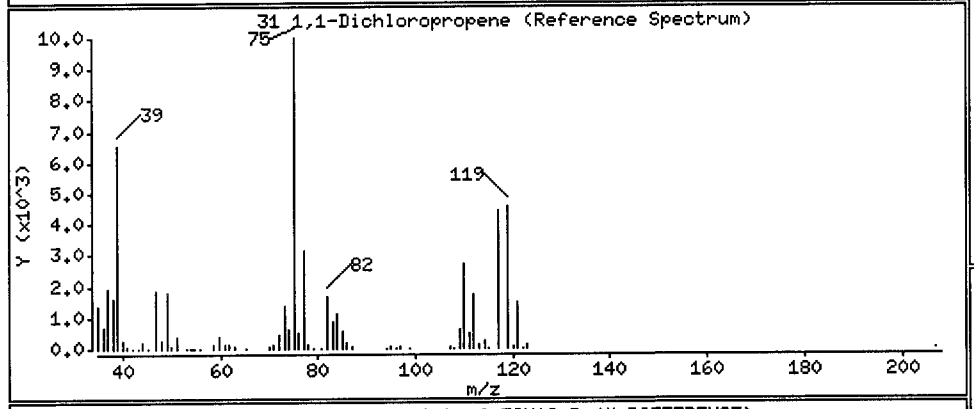
Column diameter: 0.25

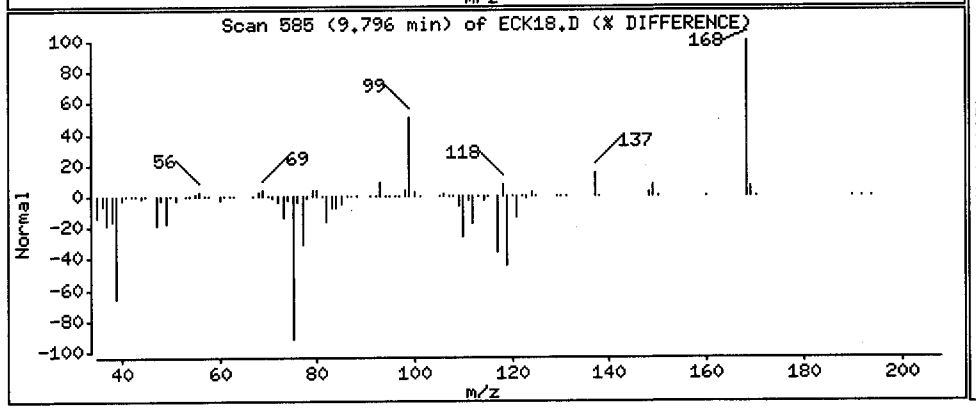
31 1,1-Dichloropropene

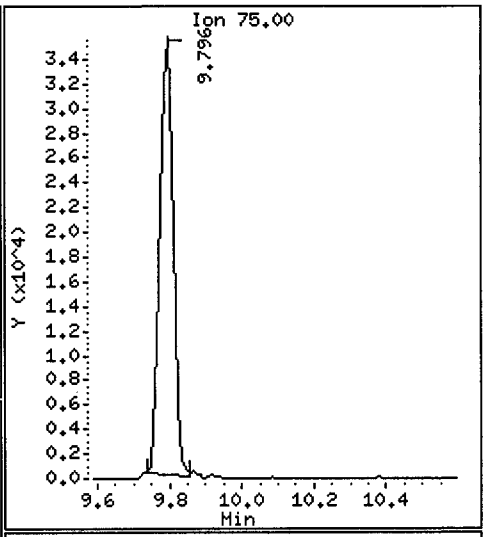
Concentration: 5.2750 UG/L

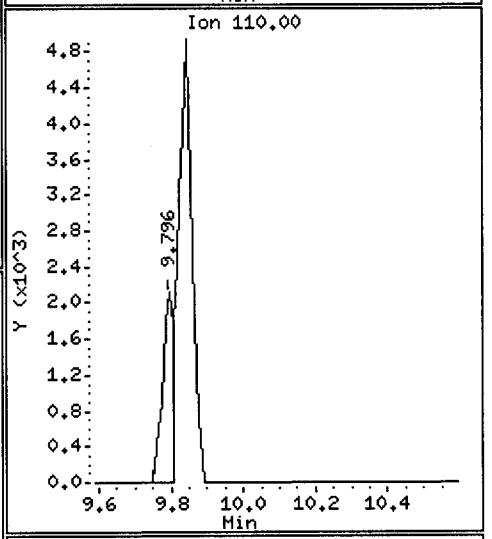


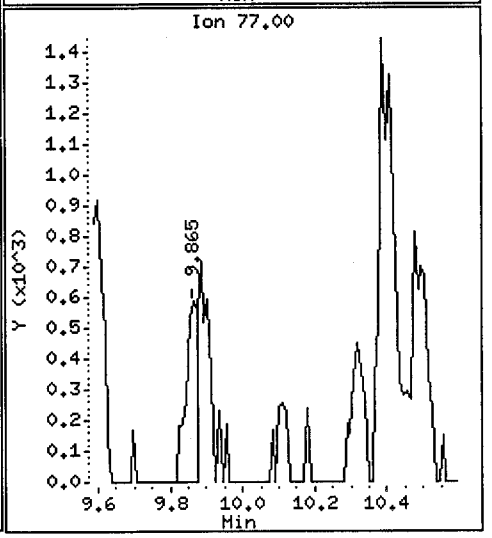












[Benzene; 0.23 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

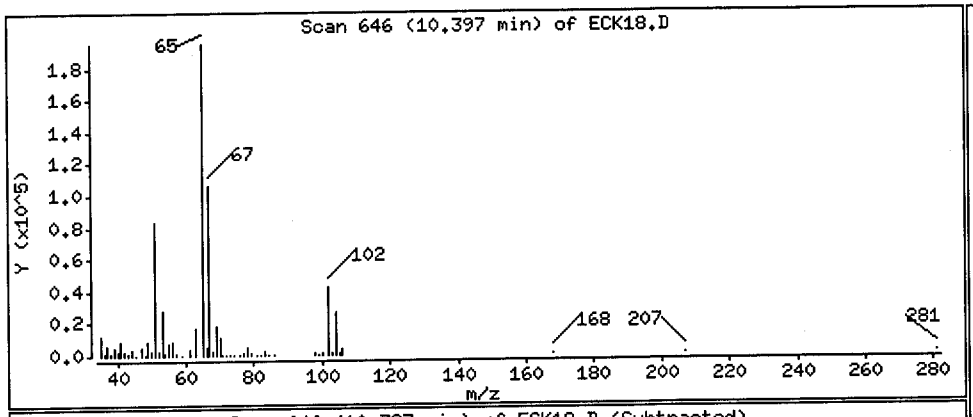
Operator: VOC

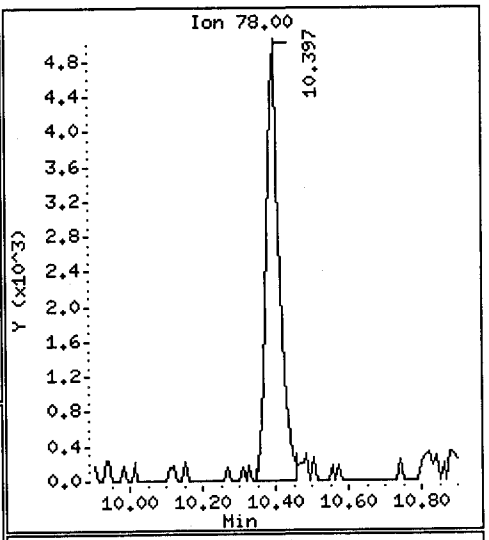
Column phase: RTX 624

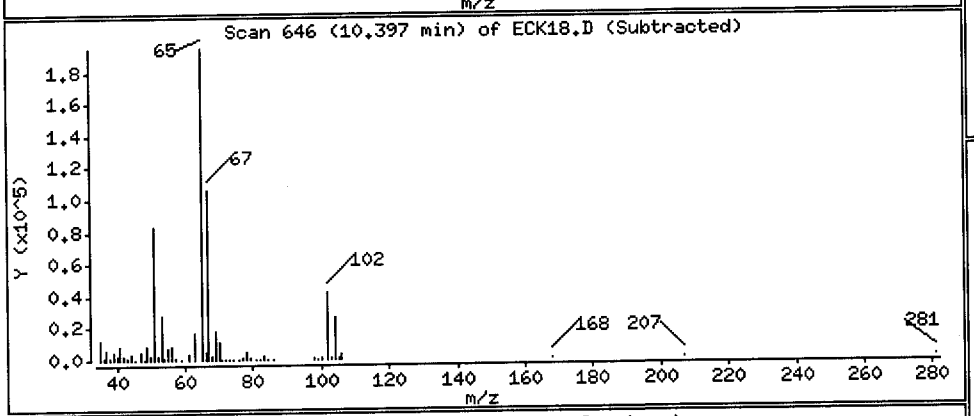
Column diameter: 0.25

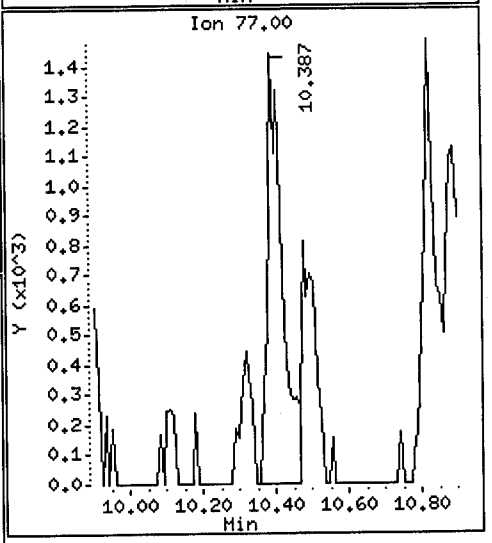
33 Benzene

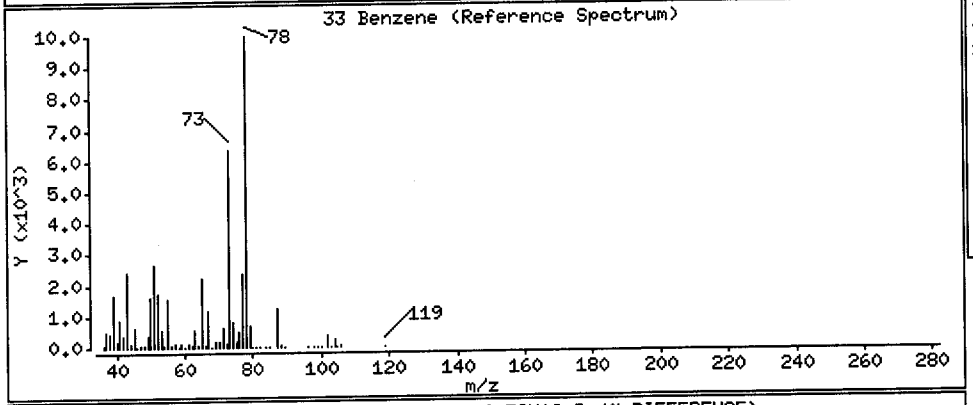
Concentration: 0.2789 UG/L

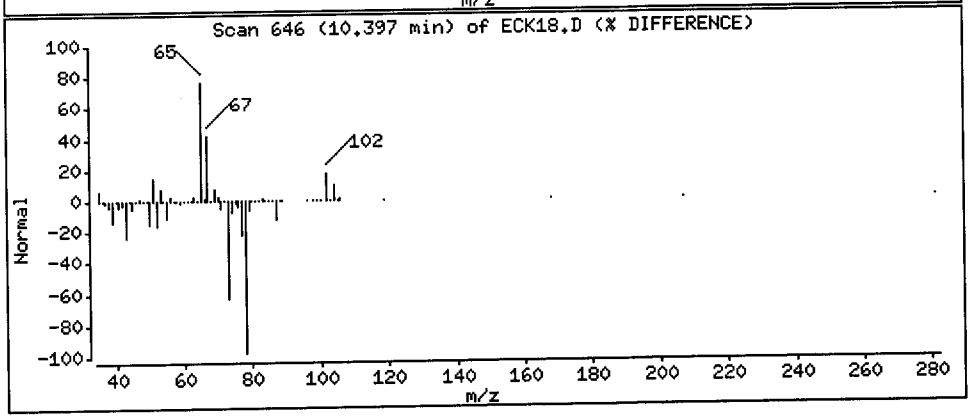












[1,2-Dichloroethane; 2.5 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

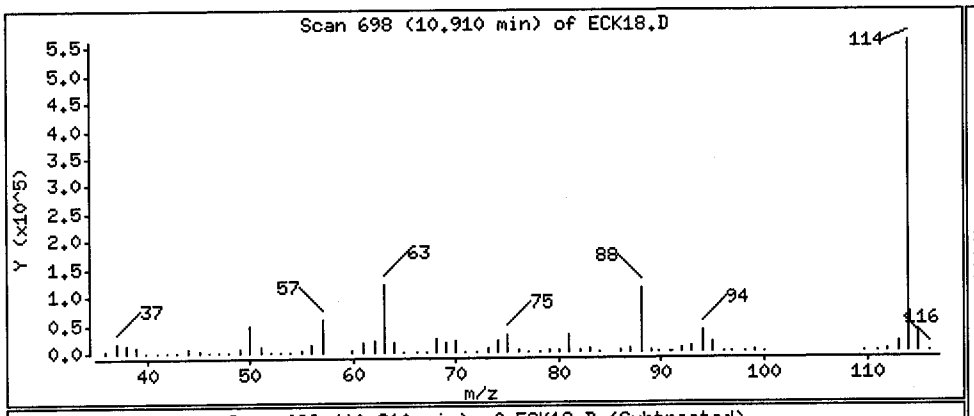
Operator: VOC

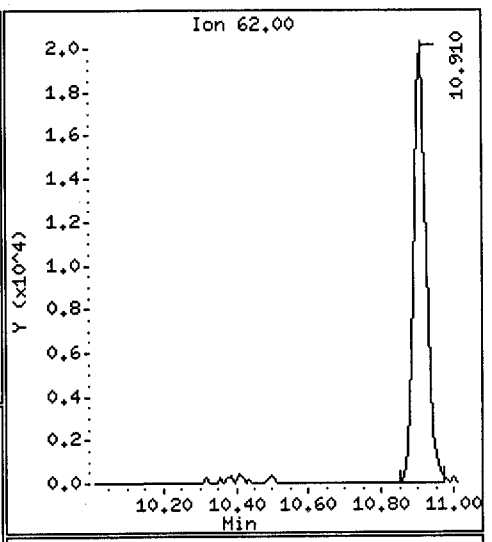
Column phase: RTX 624

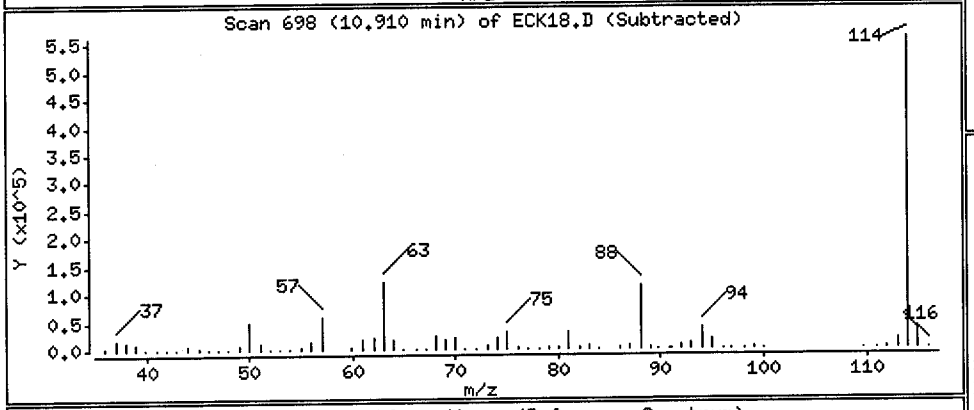
Column diameter: 0.25

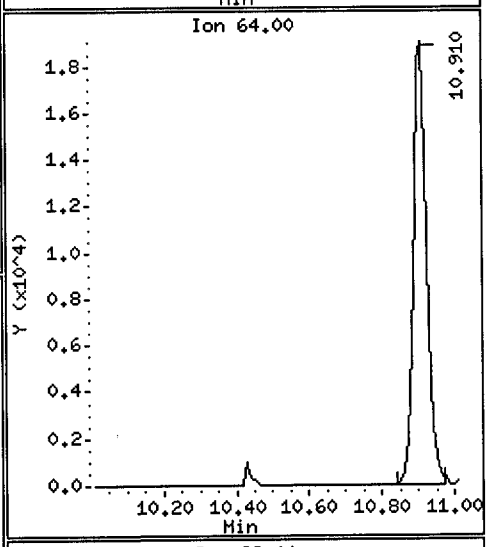
35 1,2-Dichloroethane

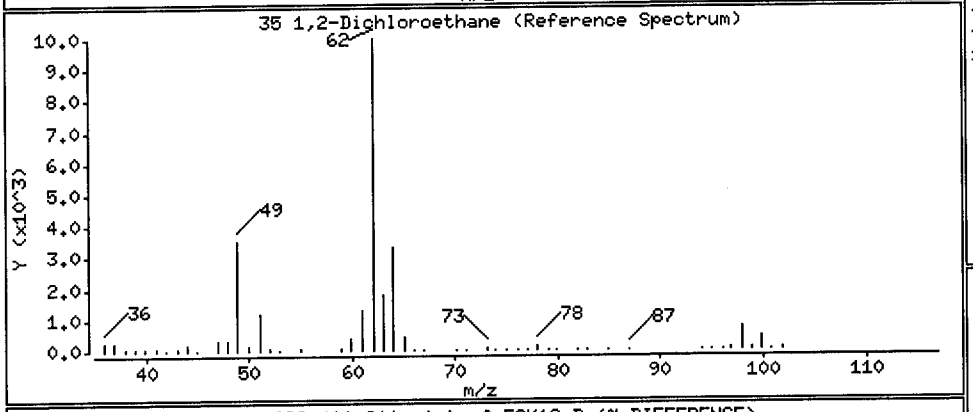
Concentration: 3.0565 UG/L

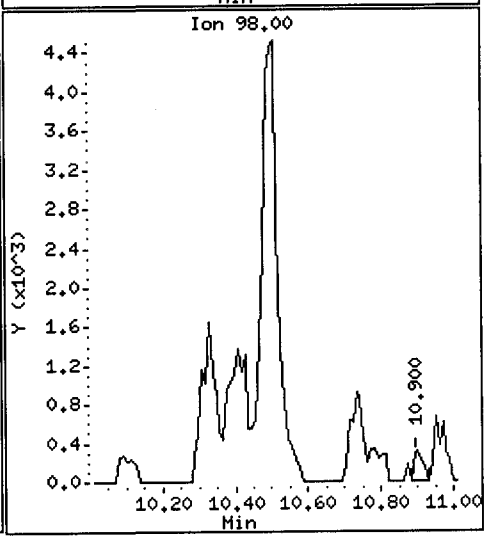


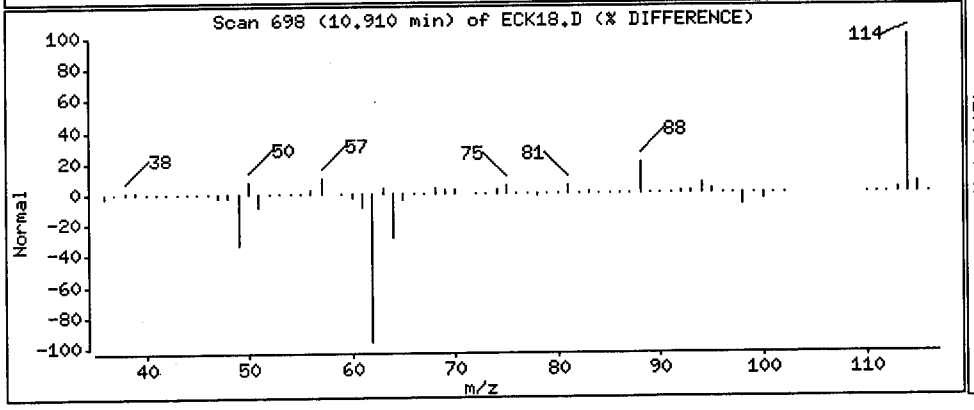












[Isopropylbenzene; 0.74 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

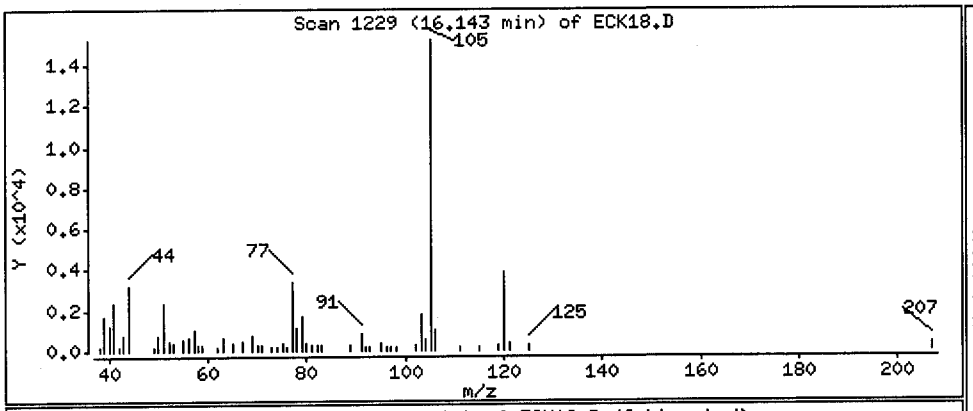
Operator: VOC

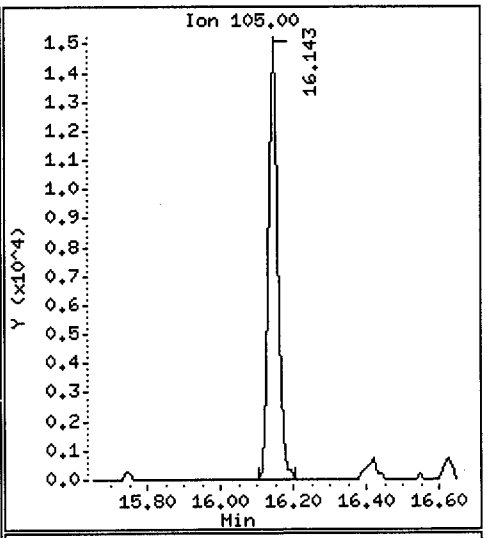
Column phase: RTX 624

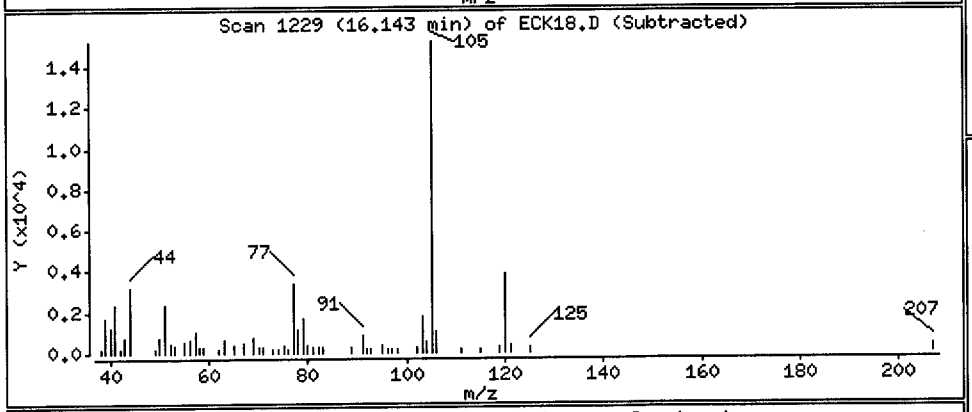
Column diameter: 0.25

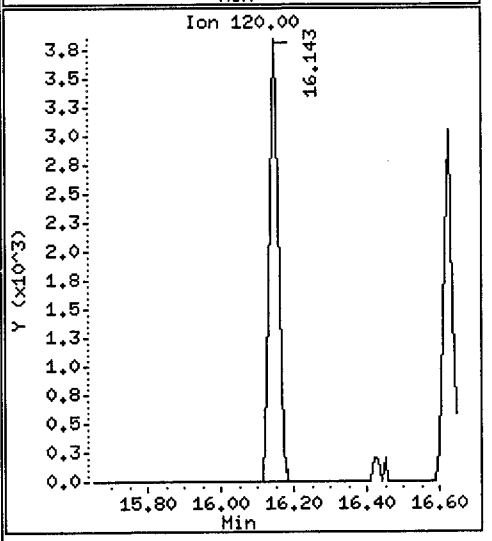
62 Isopropylbenzene

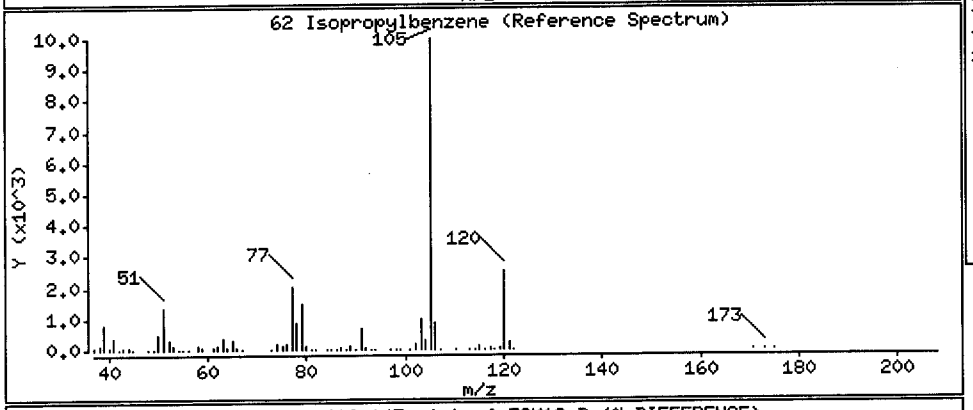
Concentration: 0.9055 UG/L

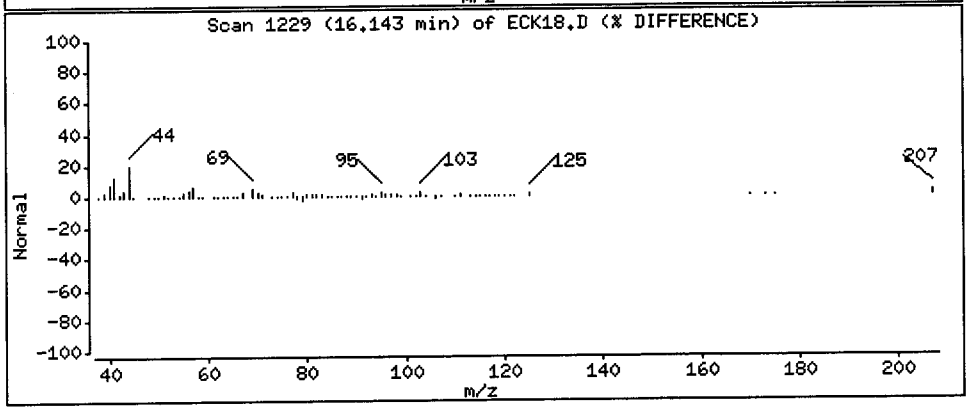












[Propylbenzene; 0.56 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

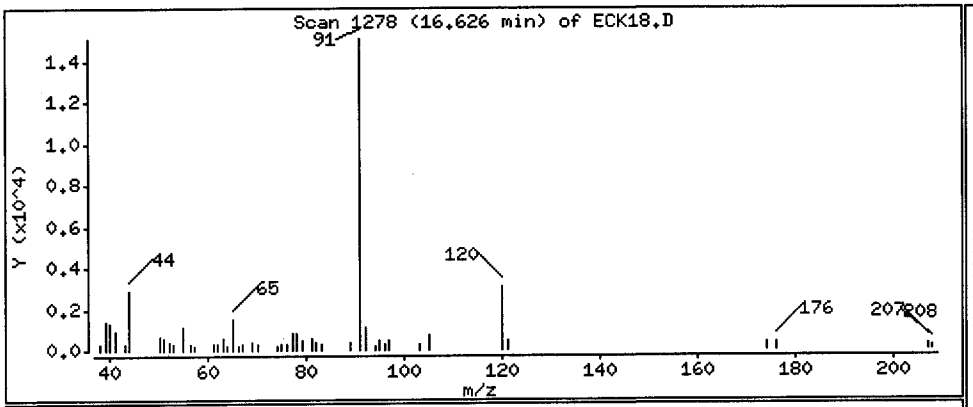
Operator: VOC

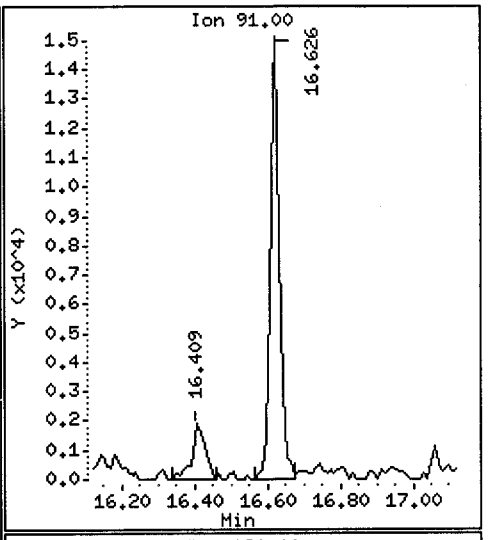
Column phase: RTX 624

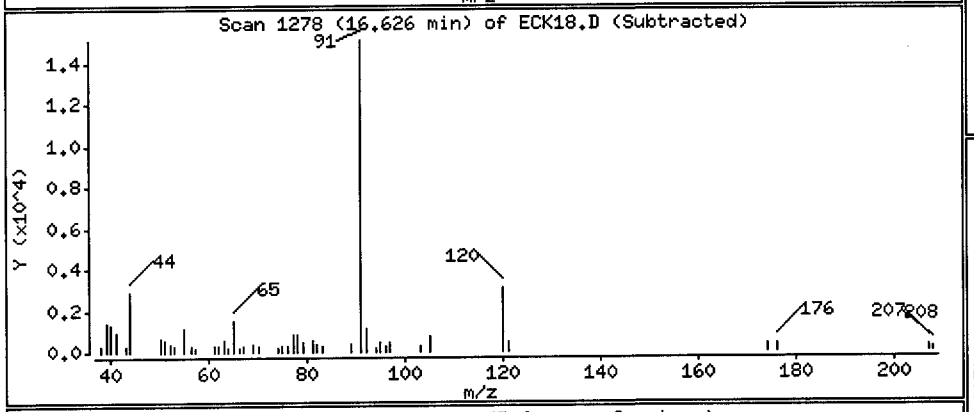
Column diameter: 0.25

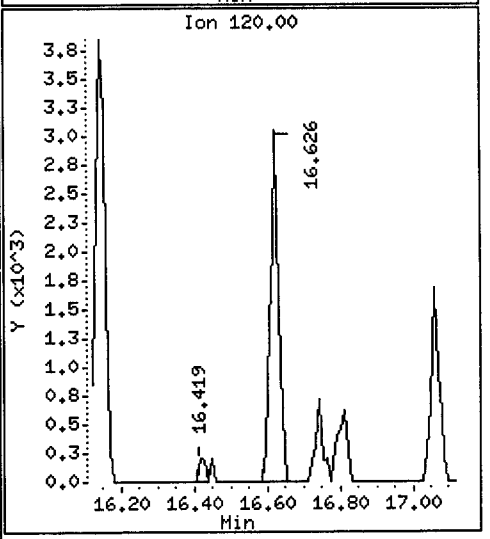
66 Propylbenzene

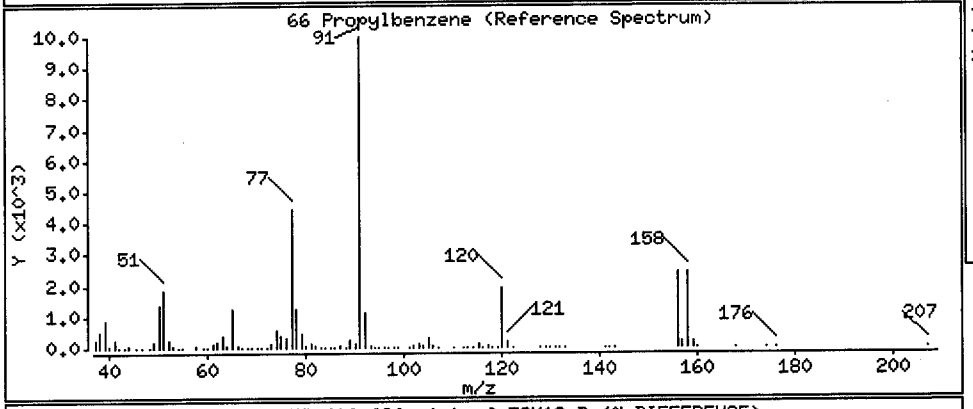
Concentration: 0.6772 UG/L

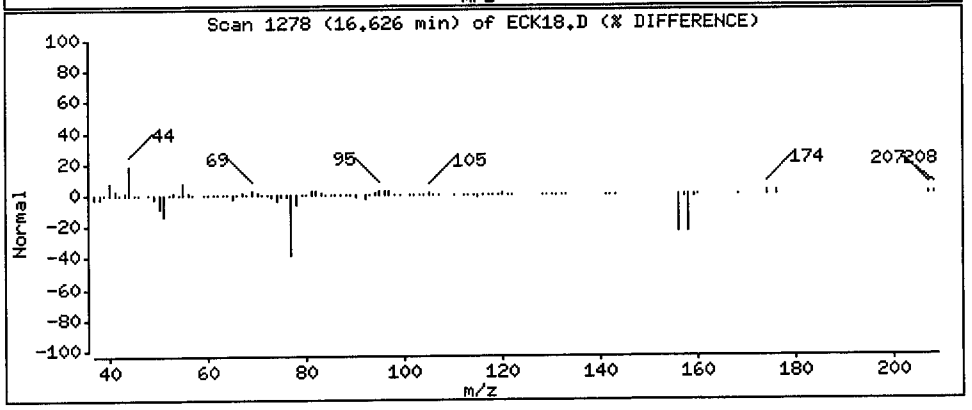












[1,2,3-Trichloropropane; 26; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

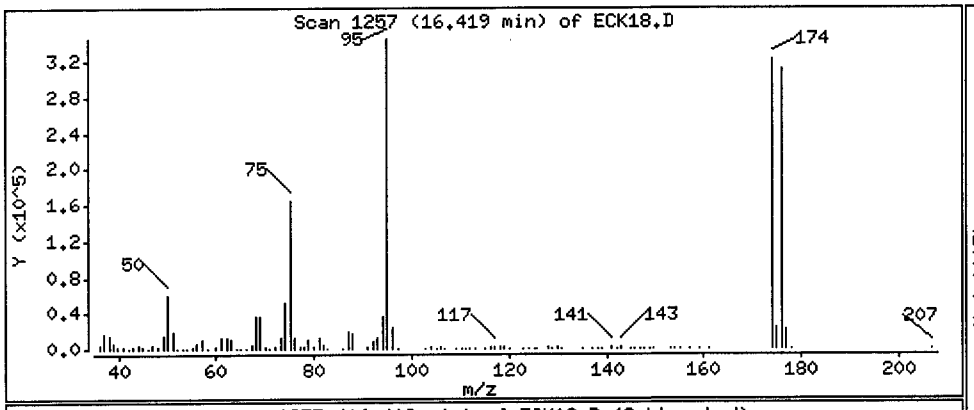
Operator: VOC

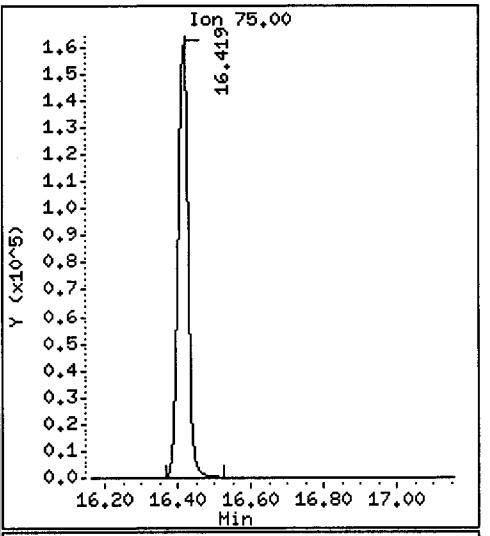
Column phase: RTX 624

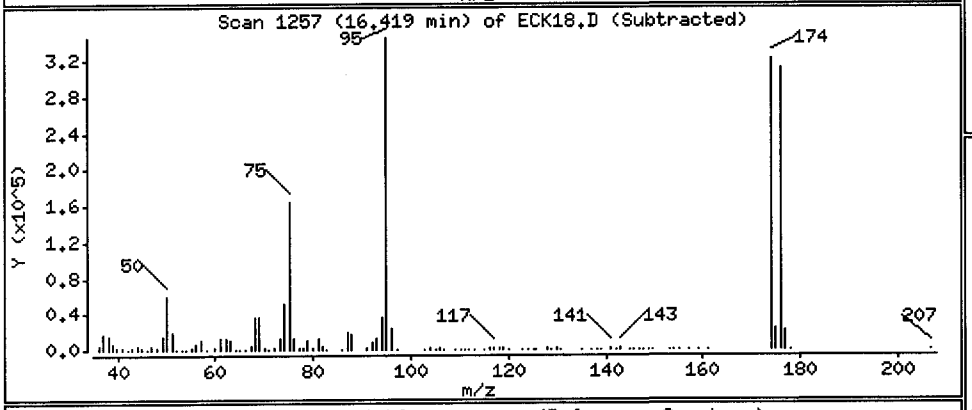
Column diameter: 0.25

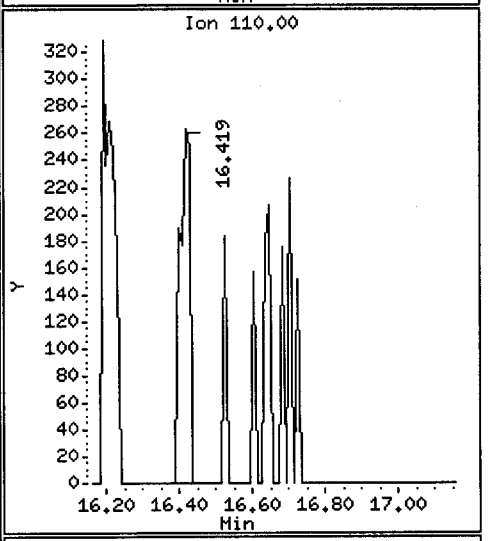
68 1,2,3-Trichloropropane

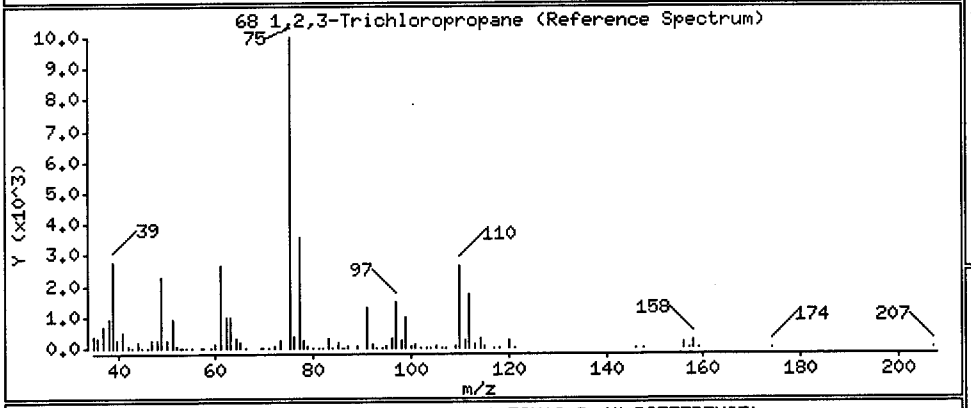
Concentration: 31.2956 UG/L

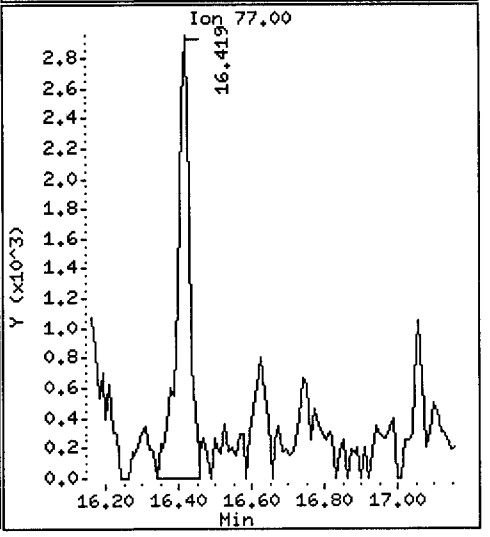


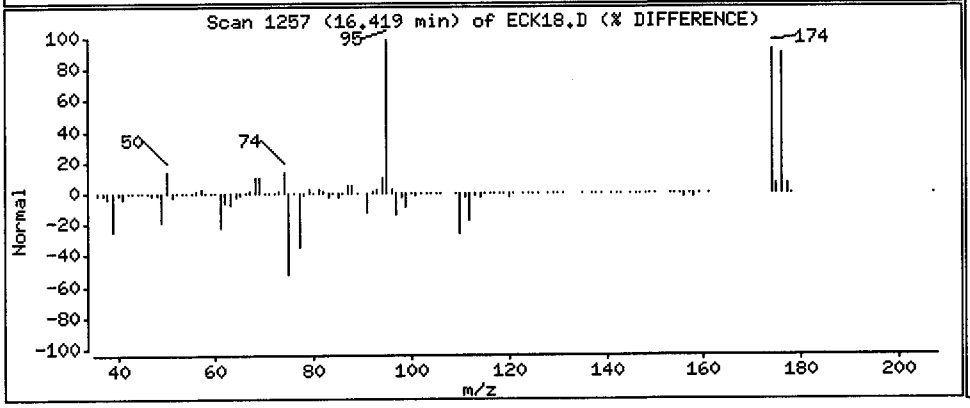












[2-Chlorotoluene; 0.84 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

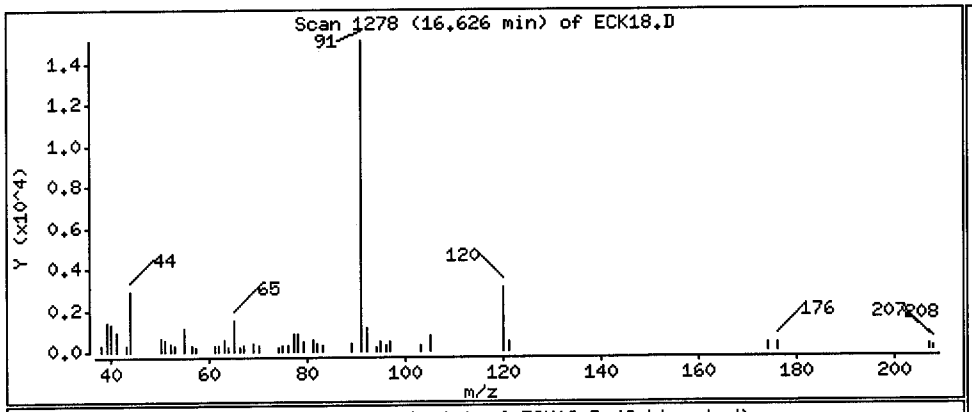
Operator: VOC

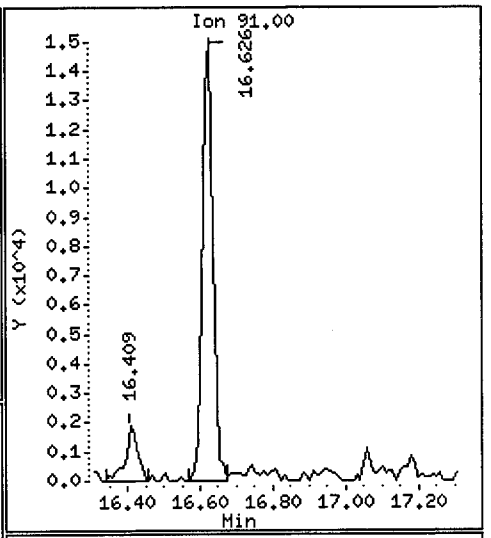
Column phase: RTX 624

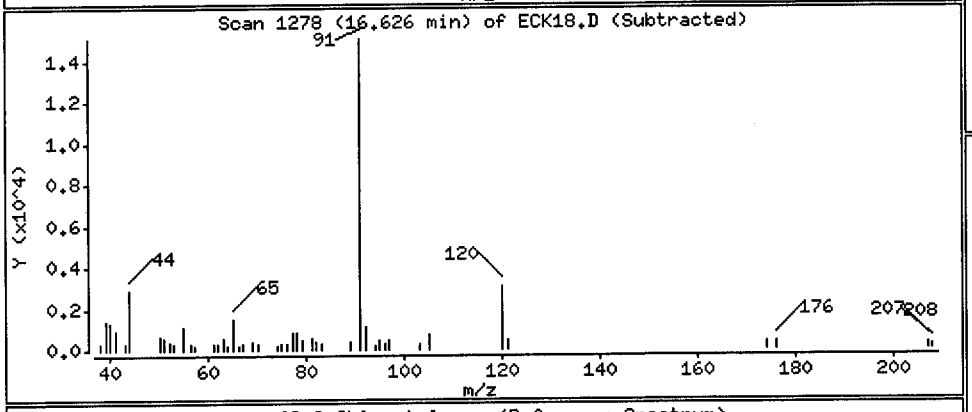
Column diameter: 0.25

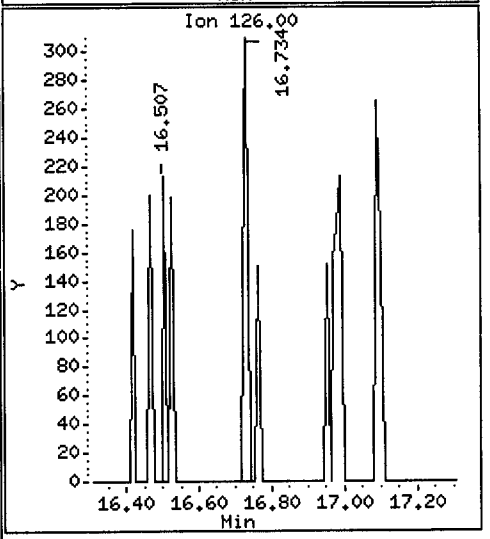
69 2-Chlorotoluene

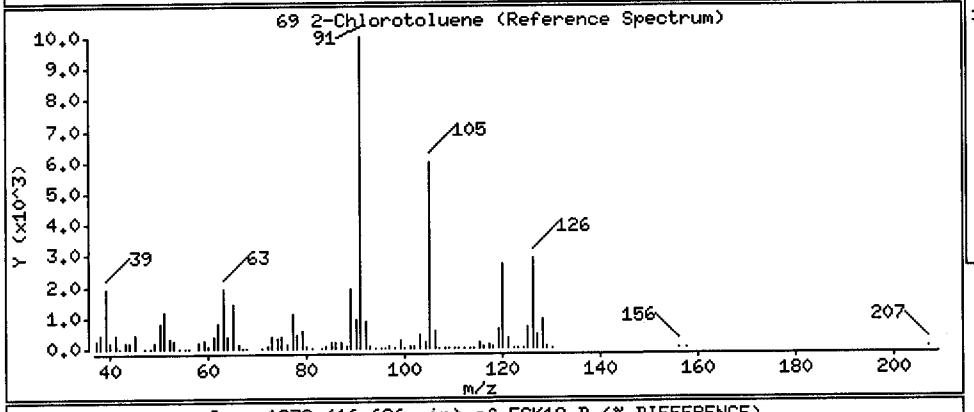
Concentration: 1.0303 UG/L

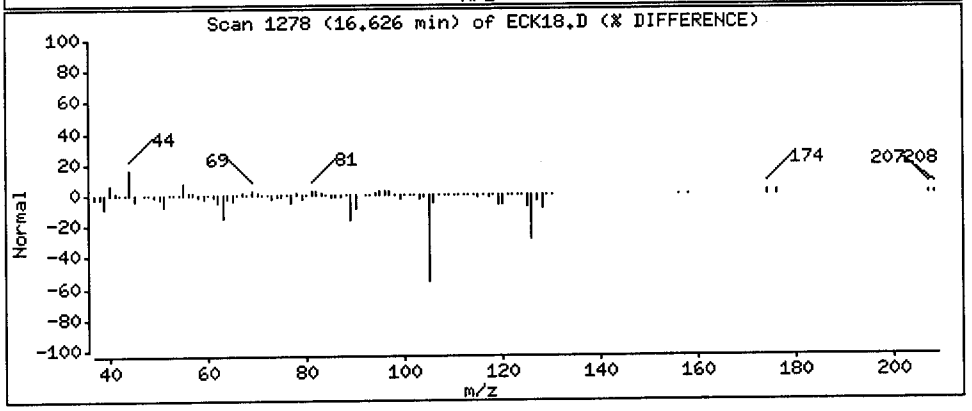












[4-Chlorotoluene; 0.94 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

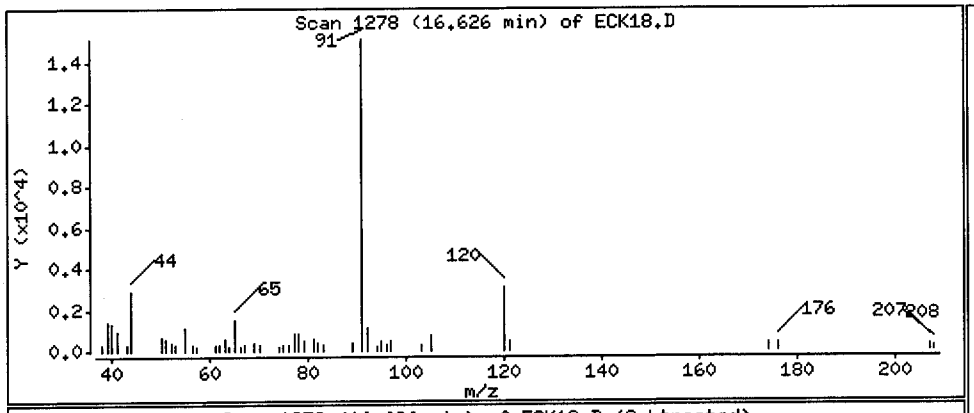
Operator: VOC

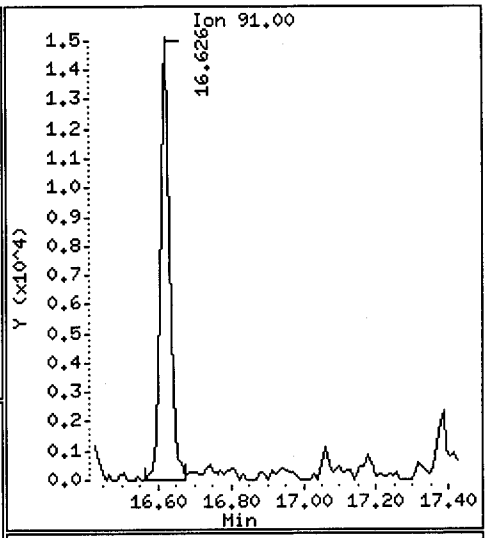
Column phase: RTX 624

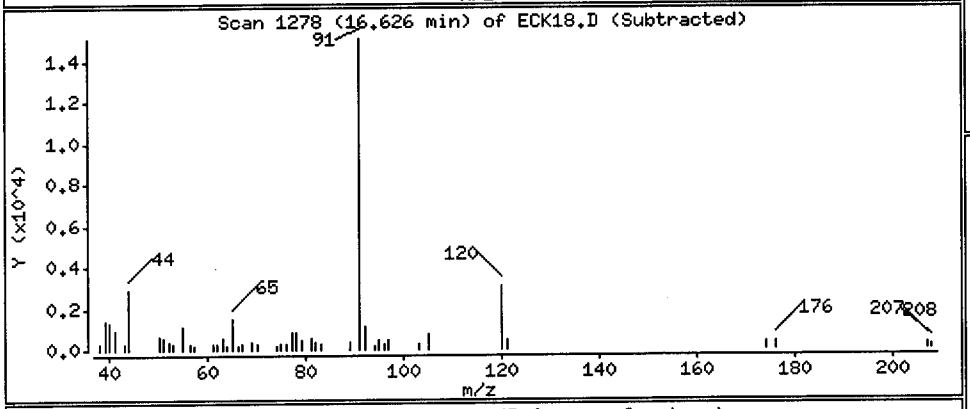
Column diameter: 0.25

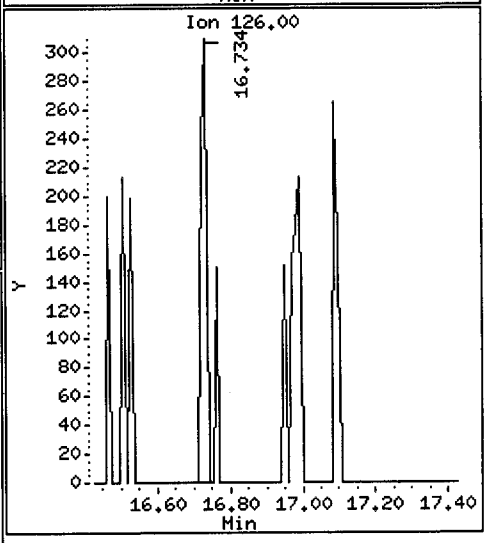
71 4-Chlorotoluene

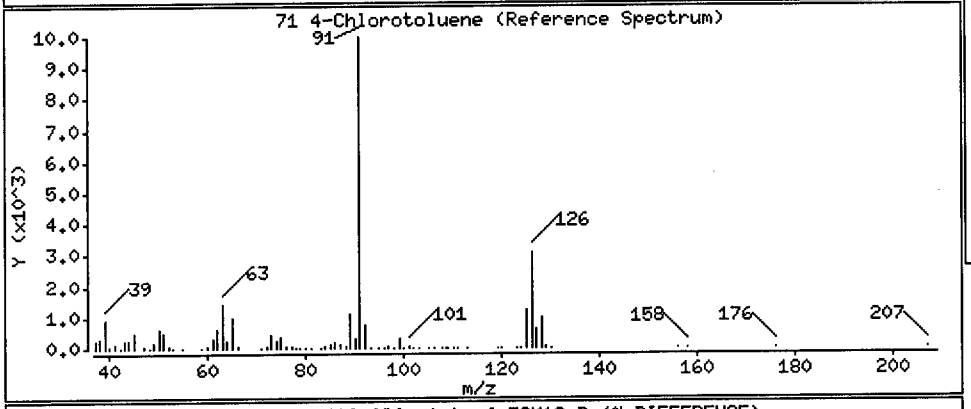
Concentration: 1.1461 UG/L

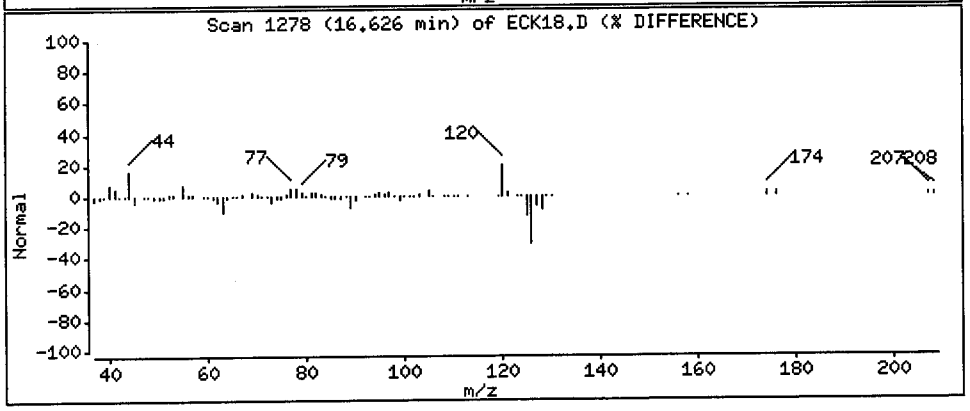












[n-Butylbenzene; 1.2 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

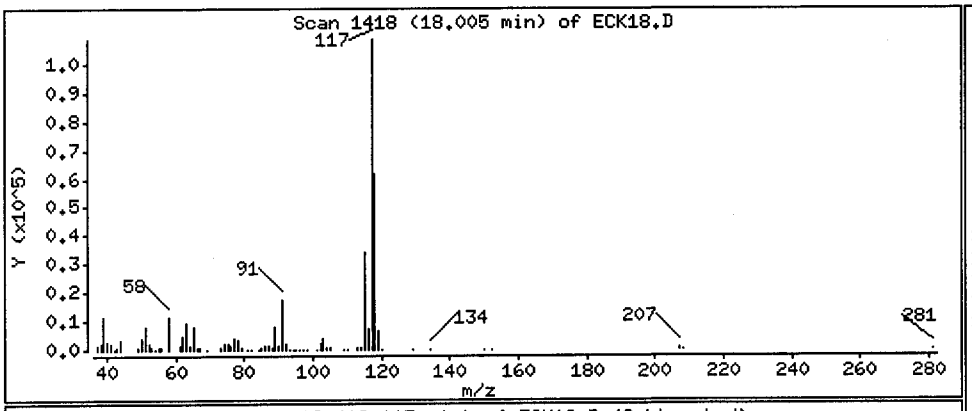
Operator: VOC

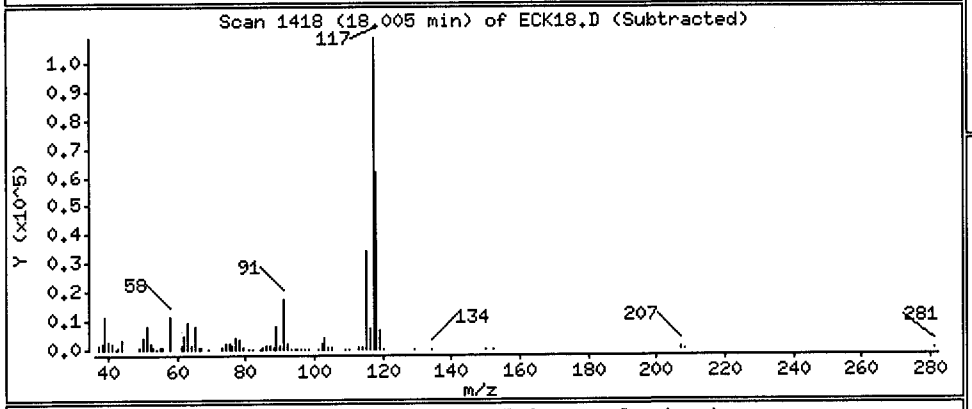
Column phase: RTX 624

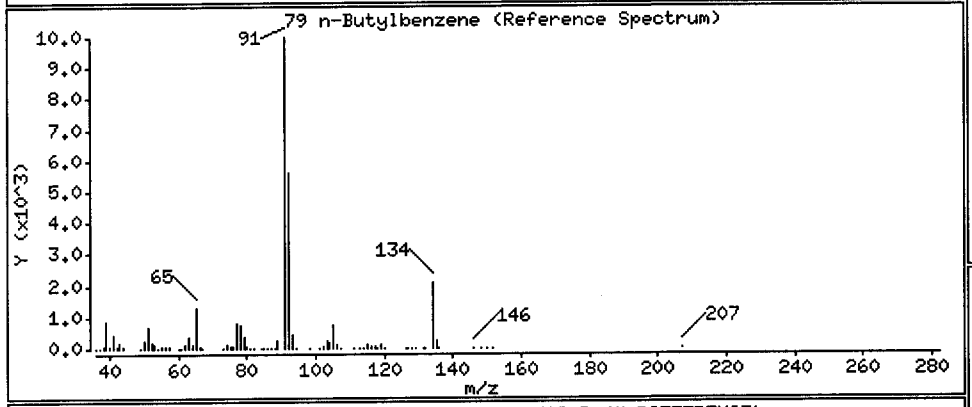
Column diameter: 0.25

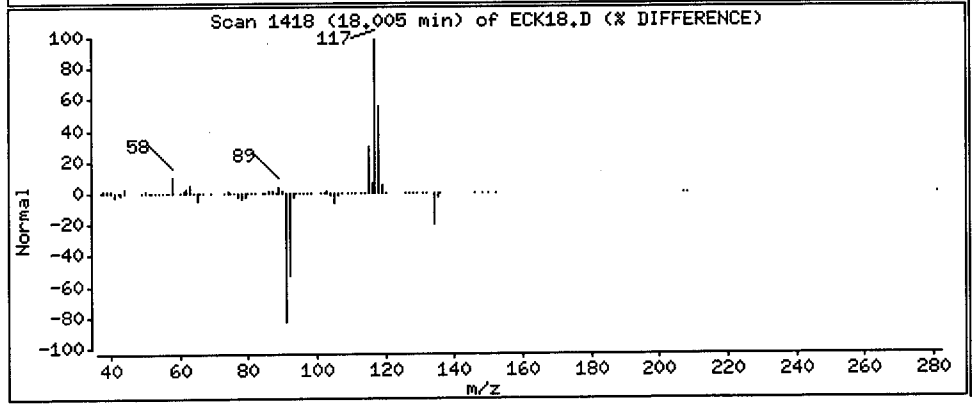
79 n-Butylbenzene

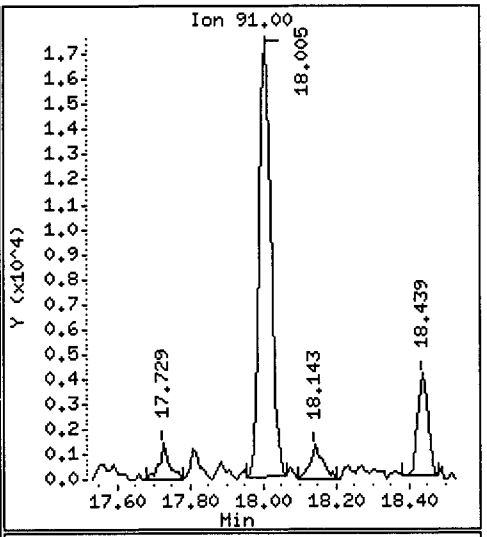
Concentration: 1.5056 UG/L

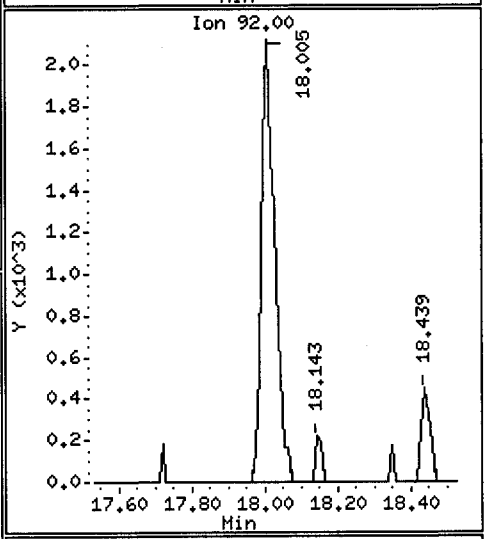


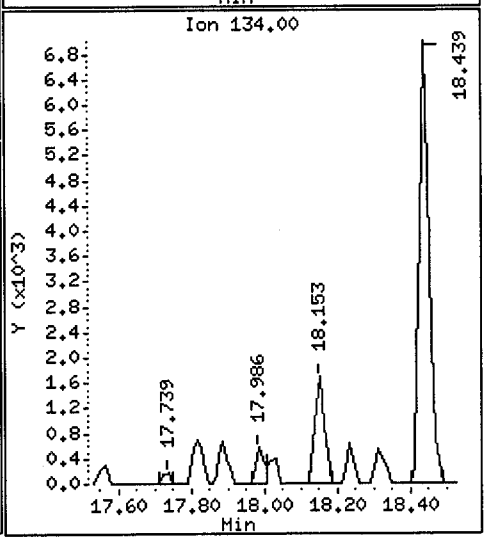












[Naphthalene; 0.82 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK18.D

Date : 20-MAR-2008 17:37

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-006

Purge Volume: 5.0

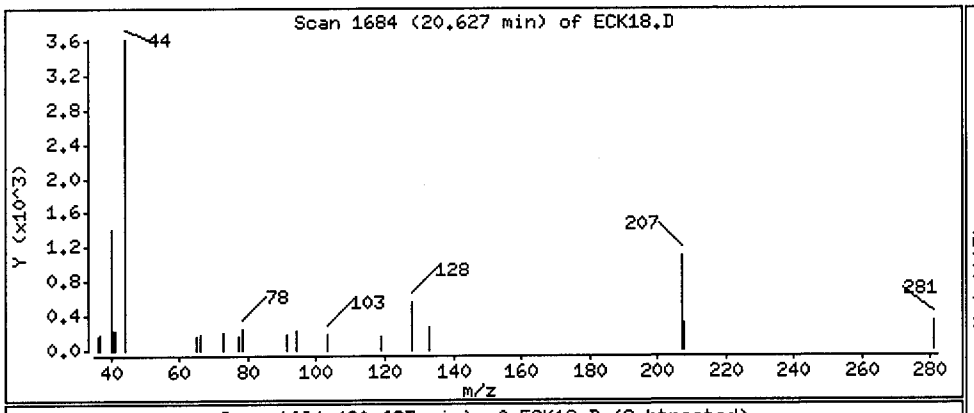
Operator: VOC

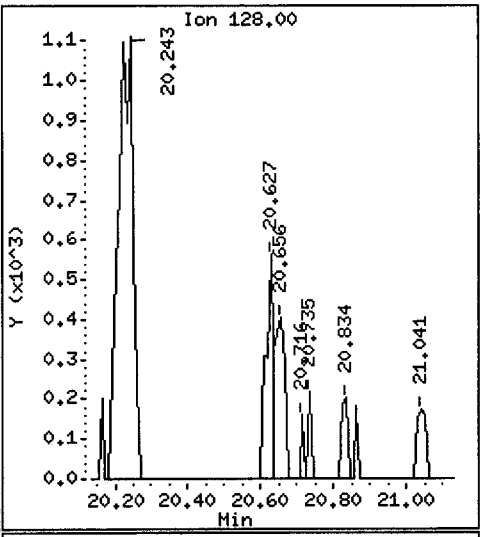
Column phase: RTX 624

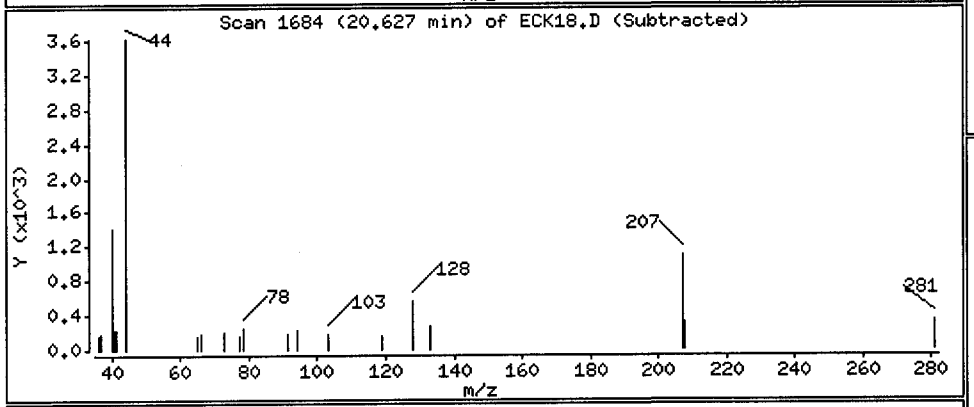
Column diameter: 0.25

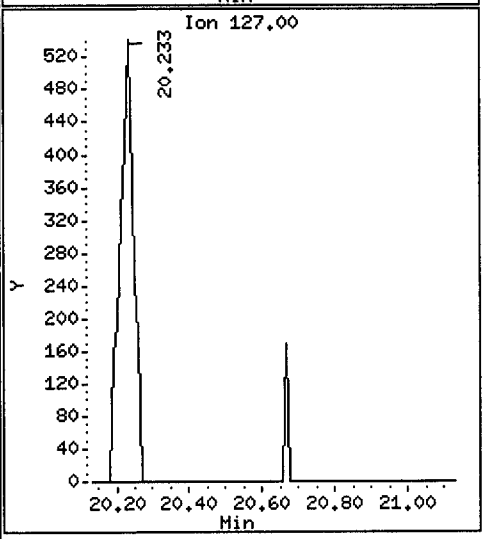
84 Naphthalene

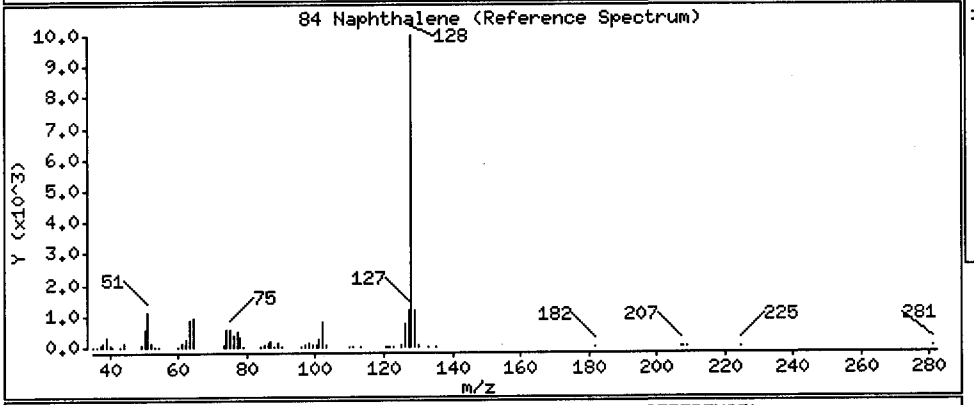
Concentration: 0.9962 UG/L

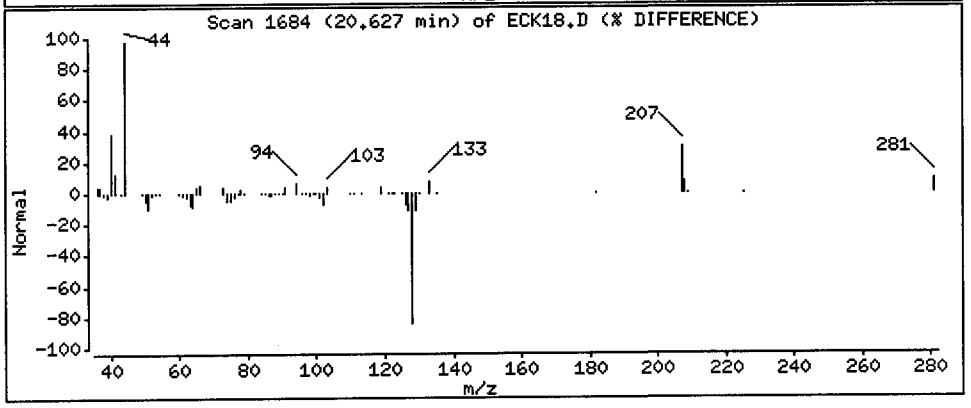












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst	: MSVOA05	Lab ID	: 202043-007	Client ID	: 1065EX312[6.0]
Seqnum	: 448115696019	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: eck19	Batch	: 136185	Time	: 20-MAR-2008 18:10
Cal	: 448110396001	Caldate	: 16-MAR-2008	Caltype	: SOIL
IDF	: 0.8333			Units	: ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	1.6 J		8.3		?curve+ u v- x
Chloromethane	ND		8.3		u
Vinyl Chloride	ND		8.3		u
Bromomethane	ND		8.3		c+ u
Chloroethane	ND		8.3		u
Trichlorofluoromethane	1.5 J		4.2		?curve+ u v- x
Acetone	**87 >LR**		17		>LR **b***
Freon 113	ND		4.2		c- u
1,1-Dichloroethene	ND		4.2		u
Methylene Chloride	2.0 J		17	0.65	m u
Carbon Disulfide	ND		4.2		u
MTBE	ND		4.2		u
trans-1,2-Dichloroethene	ND		4.2		u
Vinyl Acetate	ND		42		u
1,1-Dichloroethane	ND		4.2		u
2-Butanone	10		8.3		u
cis-1,2-Dichloroethene	ND		4.2		u
2,2-Dichloropropane	ND		4.2		u
Chloroform	ND		4.2		u
Bromochloromethane	ND		4.2		u
1,1,1-Trichloroethane	ND		4.2		u
1,1-Dichloropropene	4.4	-0.300	4.2		u x
Carbon Tetrachloride	5.4	-0.271	4.2		u x
1,2-Dichloroethane	2.5 J	0.400	4.2		u x
Benzene	ND		4.2		u
Trichloroethene	3.3 J	-0.388	4.2		u x
1,2-Dichloropropane	ND		4.2		u
Bromodichloromethane	ND		4.2		u
Dibromomethane	ND		4.2		u
4-Methyl-2-Pentanone	0.77 J	0.192	8.3		u x
cis-1,3-Dichloropropene	ND		4.2		u
Toluene	ND		4.2		u
trans-1,3-Dichloropropene	ND		4.2		u
1,1,2-Trichloroethane	ND		4.2		u
2-Hexanone	1.3 J	0.074	8.3		u x
1,3-Dichloropropane	ND		4.2		u
Tetrachloroethene	ND		4.2		u
Dibromochloromethane	ND		4.2		u
1,2-Dibromoethane	ND		4.2		u
Chlorobenzene	ND		4.2		u
1,1,1,2-Tetrachloroethane	ND		4.2		u
Ethylbenzene	ND		4.2		u
m,p-Xylenes	ND		4.2		u
o-Xylene	ND		4.2		u
Styrene	ND		4.2		u
Bromoform	ND		4.2		u
Isopropylbenzene	ND		4.2		u
1,1,2,2-Tetrachloroethane	ND		4.2		u
1,2,3-Trichloropropane	26	-0.241	4.2		u x

448115696019

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	ND		4.2		u
Bromobenzene	ND		4.2		u
1,3,5-Trimethylbenzene	ND		4.2		u
2-Chlorotoluene	ND		4.2		u
4-Chlorotoluene	ND		4.2		u
tert-Butylbenzene	ND		4.2		u
1,2,4-Trimethylbenzene	ND		4.2		u
sec-Butylbenzene	ND		4.2		u
para-Isopropyl Toluene	ND		4.2		u
1,3-Dichlorobenzene	ND		4.2		u
1,4-Dichlorobenzene	ND		4.2		u
n-Butylbenzene	ND		4.2		u
1,2-Dichlorobenzene	ND		4.2		u
1,2-Dibromo-3-Chloropropane	ND		4.2		u
1,2,4-Trichlorobenzene	ND		4.2		u
Hexachlorobutadiene	ND		4.2		u
Naphthalene	0.79 J		4.2	1.6	?curve+ u x
1,2,3-Trichlorobenzene	ND		4.2	0.58	u

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	41.67	35.72	86	78-126	u
1,2-Dichloroethane-d4	41.67	36.75	88	76-137	u
Toluene-d8	41.67	42.73	103	80-120	u
Bromofluorobenzene	41.67	45.71	110	80-121	u

ISTD (ICAL ecg11)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	751961	1093844	45.47	9.80	9.80	0.00
1,4-Difluorobenzene	1093331	1483451	35.68	10.90	10.91	0.01
Chlorobenzene-d5	980726	1252597	27.72	15.00	15.00	0.00
1,4-Dichlorobenzene-d4	574120	631794	10.05	17.72	17.73	0.01

BO 03/21/08 [Acetone]: RR 25x, >LR

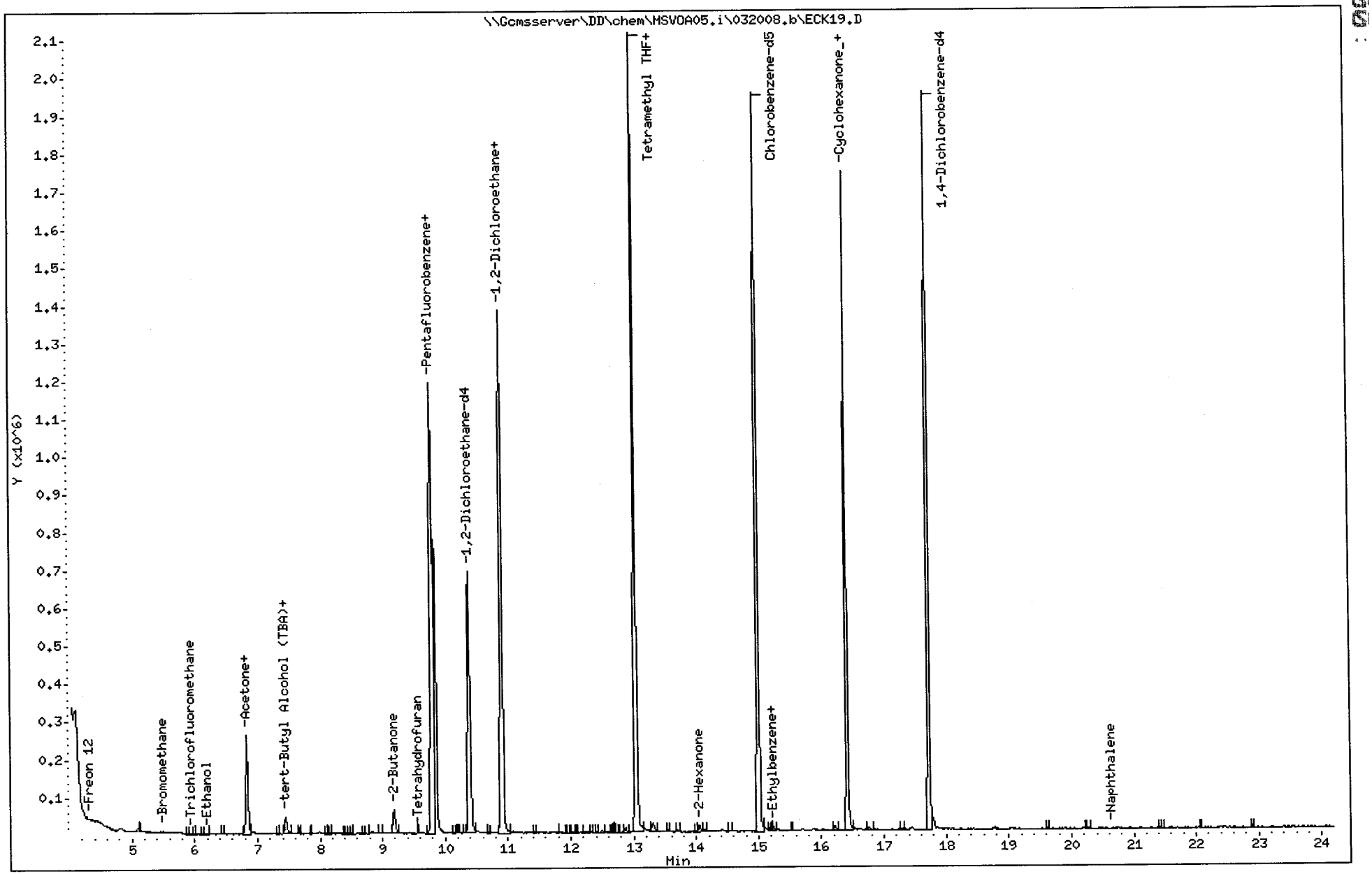
Analyst: BO Date: 03/21/08 Reviewer: MJD Date: 03/21/08

+=high bias -=low bias >LR=overrange ?curve=check curve b=noncompliant c=CCV m=manual integration u=use v=ICV x=false positive

448115696019

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D
Date : 20-MAR-2008 18:10
Client ID: DYNA P&T
Sample Info: S,202043-007
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i
Operator: VOC
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D
Report Date: 21-Mar-2008 12:30

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 20-MAR-2008 18:10 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : S,202043-007
Misc Info : 136185,6.0/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	1 Freon 12	85	4.327	4.339	(0.442)	461	1.92454	1.9245
	4 Bromomethane	94	5.500	5.483	(0.561)	513	0.89111	0.8911
	6 Trichlorofluoromethane	101	5.943	5.955	(0.607)	215	1.84936	1.8493
	7 Ethanol	45	6.209	6.231	(0.634)	2795	16.2982	16.2981(A)
	10 Acetone	43	6.830	6.852	(0.697)	472500	104.732	104.7324
	11 Isopropanol	45	6.919	6.941	(0.706)	718	0.69316	0.6931(A)
	13 Methylene Chloride	84	7.451	7.463	(0.761)	31798	2.37504	2.3750(M)
	14 tert-Butyl Alcohol (TBA)	59	7.471	7.483	(0.763)	1975	1.30453	1.3045(A)
	22 2-Butanone	43	9.185	9.198	(0.938)	108457	12.3335	12.3335
	25 Tetrahydrofuran	42	9.560	9.572	(0.976)	2086	0.42429	0.4242(aA)
*	27 Pentafluorobenzene	168	9.796	9.799	(1.000)	1093844	50.0000	
	28 Dibromofluoromethane	113	9.836	9.848	(1.004)	567244	42.8695	42.8694
	30 Carbon Tetrachloride	117	9.796	10.075	(0.898)	91118	6.48983	6.4898
	31 1,1-Dichloropropene	75	9.787	10.094	(0.897)	92035	5.27952	5.2795
	32 1,2-Dichloroethane-d4	65	10.388	10.400	(0.952)	602595	44.1032	44.1032
	35 1,2-Dichloroethane	62	10.900	10.508	(0.999)	50595	2.99986	2.9998
*	36 1,4-Difluorobenzene	114	10.910	10.912	(1.000)	1483451	50.0000	
	37 Trichloroethene	95	10.910	11.307	(1.000)	45067	3.92894	3.9289
	42 Tetramethyl THF	43	13.039	12.657	(1.195)	14855	0.47794	0.4779(aA)
	44 4-Methyl-2-Pentanone	43	13.039	12.854	(1.195)	14855	0.92088	0.9208
	45 Toluene-d8	98	13.039	13.041	(1.195)	1668615	51.2787	51.2787
	50 2-Hexanone	43	14.054	13.977	(0.937)	17616	1.58044	1.5804

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D
Report Date: 21-Mar-2008 12:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
* 54 Chlorobenzene-d5	117	15.000	15.012	(1.000)	1252597	50.0000	
56 Ethylbenzene	91	15.237	15.101	(1.016)	5546	0.12183	0.1218(a)
58 m,p-Xylenes	106	15.237	15.239	(1.016)	2199	0.14966	0.1496(a)
63 Cyclohexanone_	55	16.419	16.402	(0.926)	3469	2.05225	2.0522(A)
64 Bromofluorobenzene	95	16.419	16.421	(0.926)	665096	54.8545	54.8544
68 1,2,3-Trichloropropane	75	16.419	16.658	(0.926)	316350	30.6497	30.6496
* 77 1,4-Dichlorobenzene-d4	152	17.730	17.732	(1.000)	631794	50.0000	
84 Naphthalene	128	20.637	20.630	(1.164)	344	0.95359	0.9535

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

[Freon 12; 1.6 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

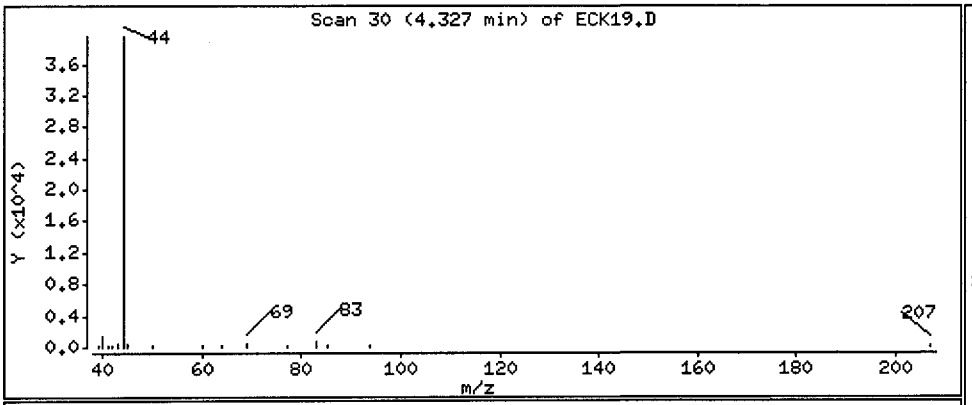
Operator: VOC

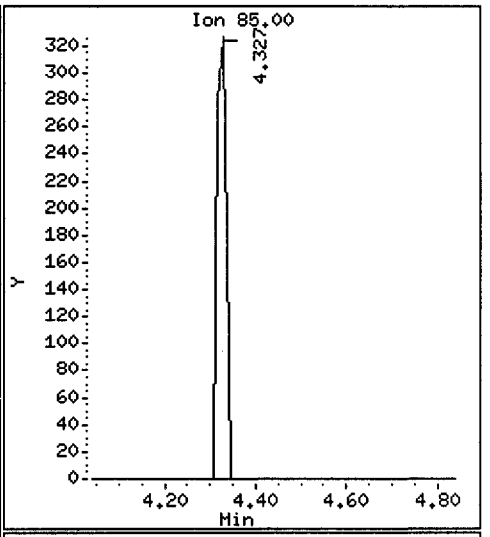
Column phase: RTX 624

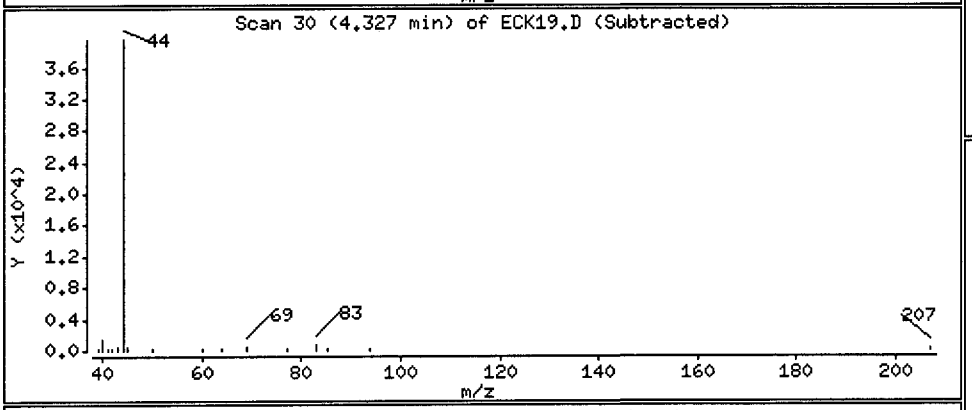
Column diameter: 0.25

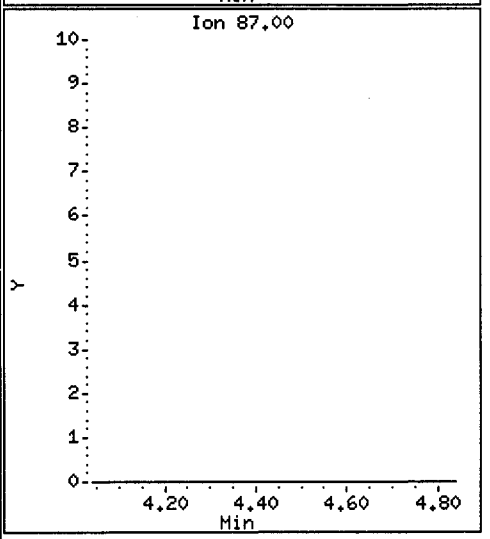
1 Freon 12

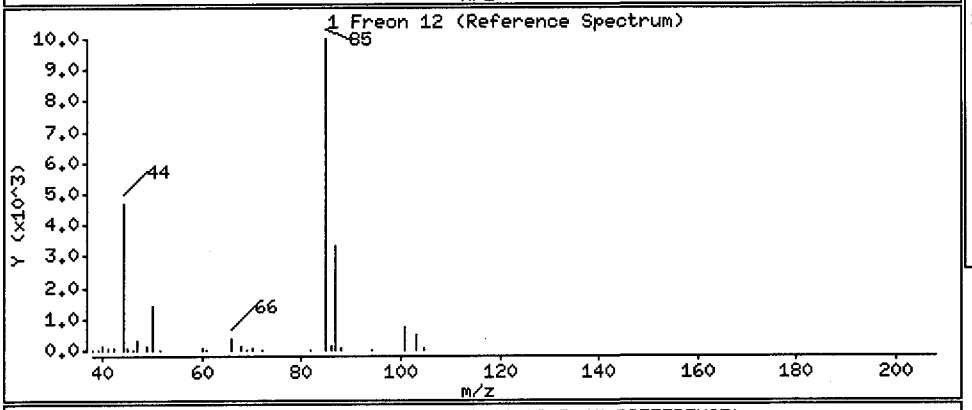
Concentration: 1.9245 UG/L

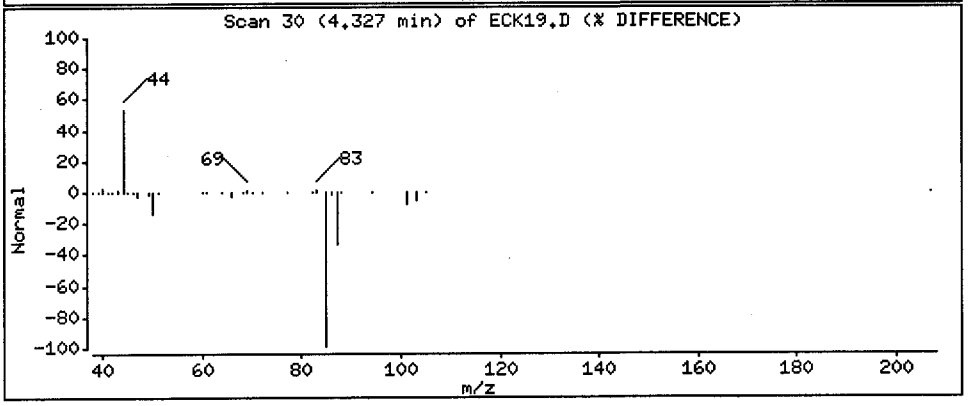












[Trichlorofluoromethane; 1.5 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

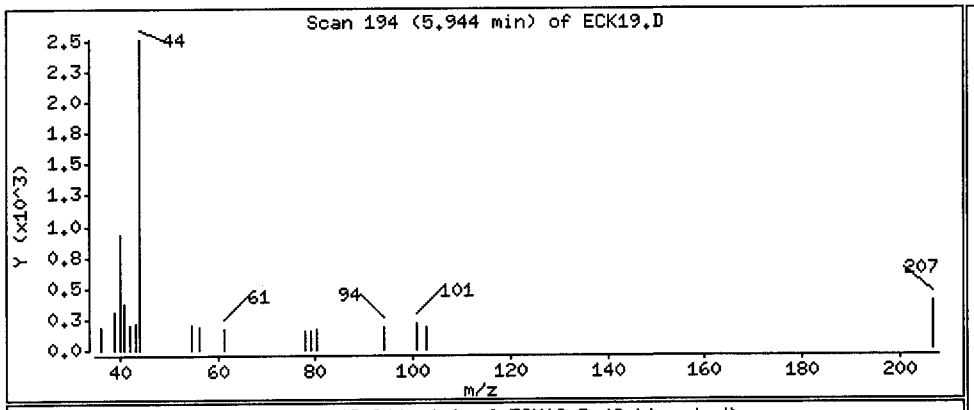
Operator: VOC

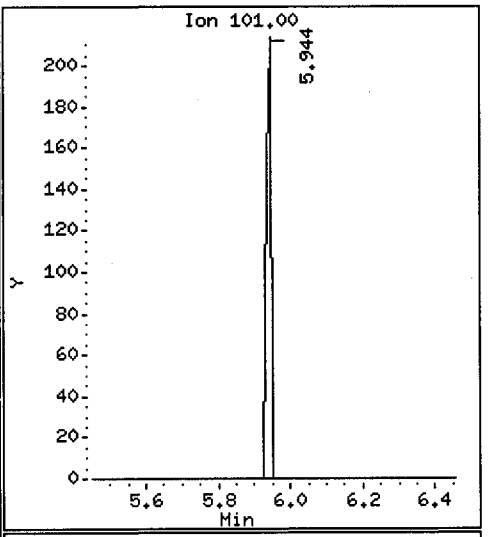
Column phase: RTX 624

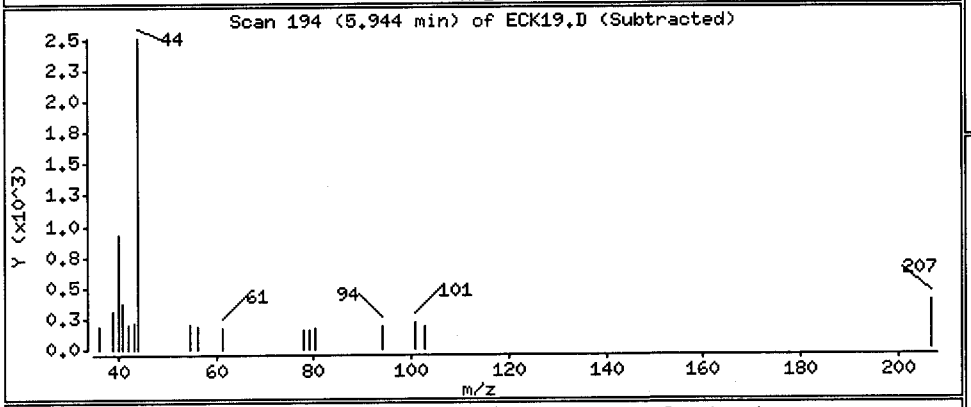
Column diameter: 0.25

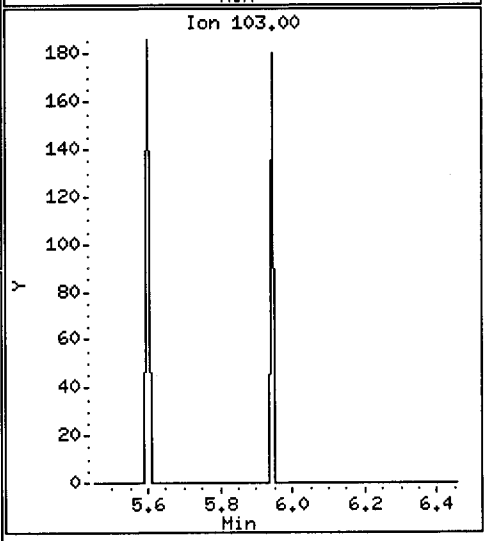
6 Trichlorofluoromethane

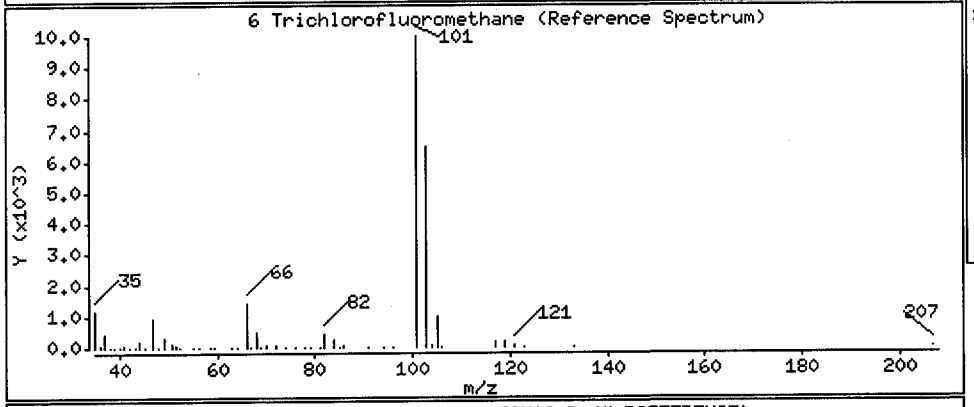
Concentration: 1.8493 UG/L

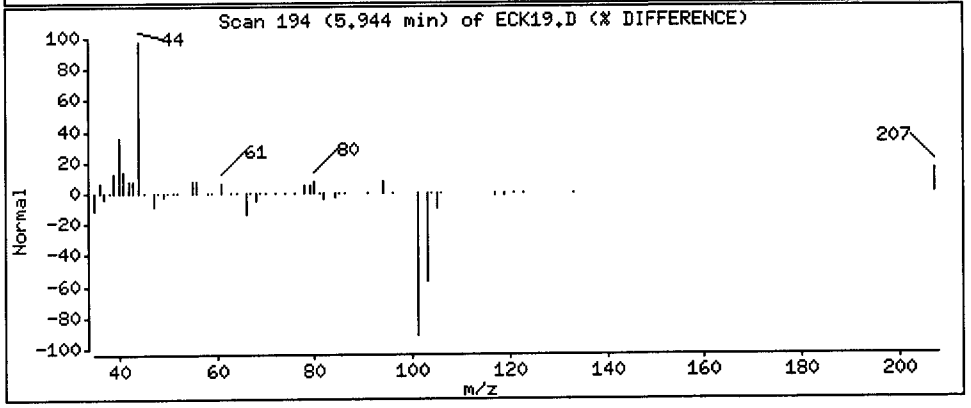












[Acetone; 87 >LR]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

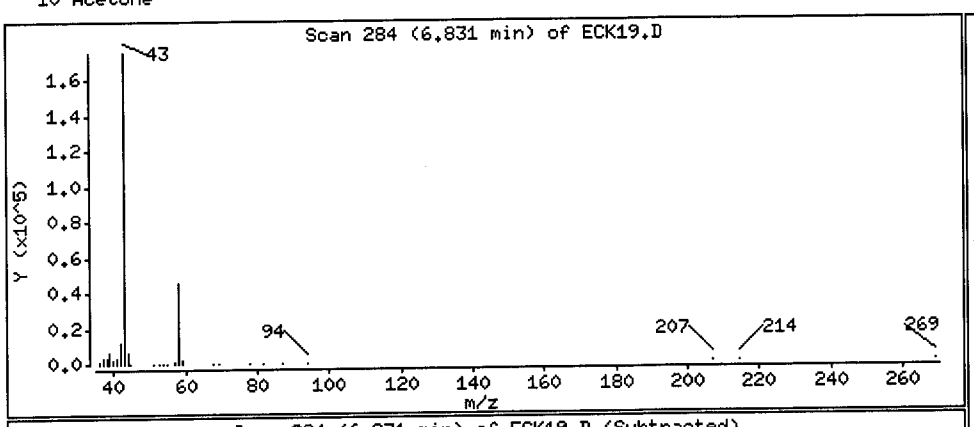
Operator: VOC

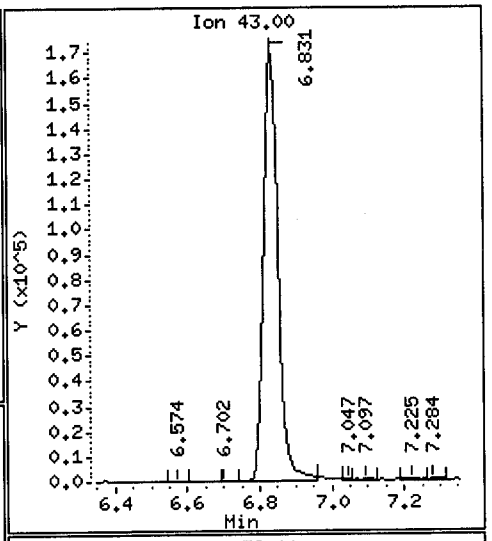
Column phase: RTX 624

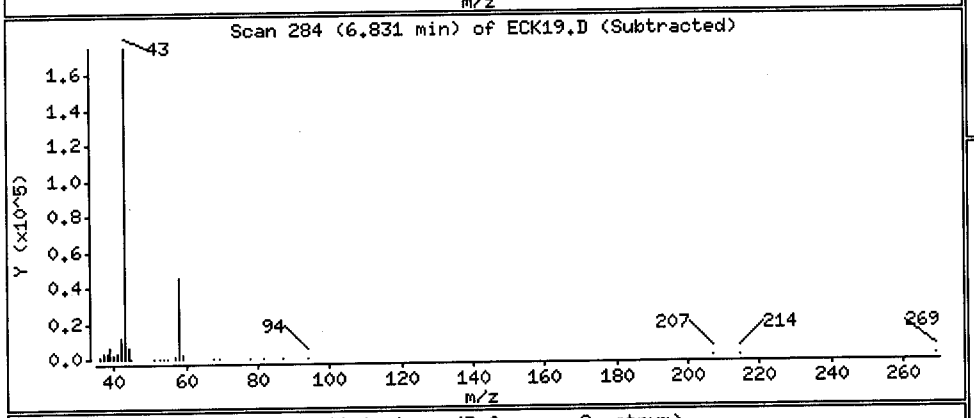
Column diameter: 0.25

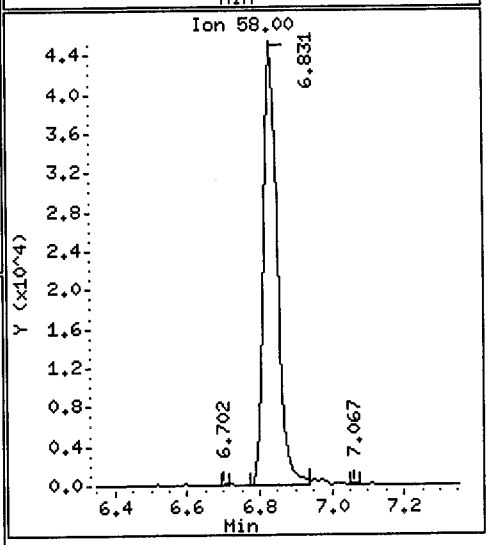
10 Acetone

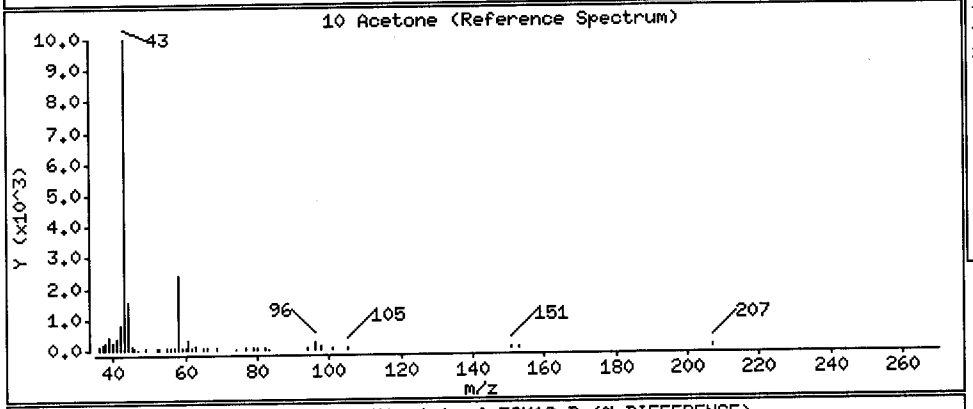
Concentration: 104.7324 UG/L

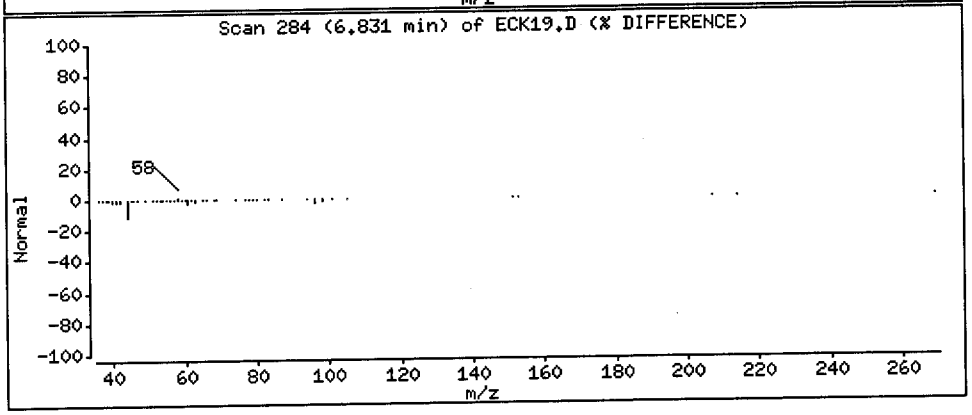












[Methylene Chloride; 2.0 J; MI; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

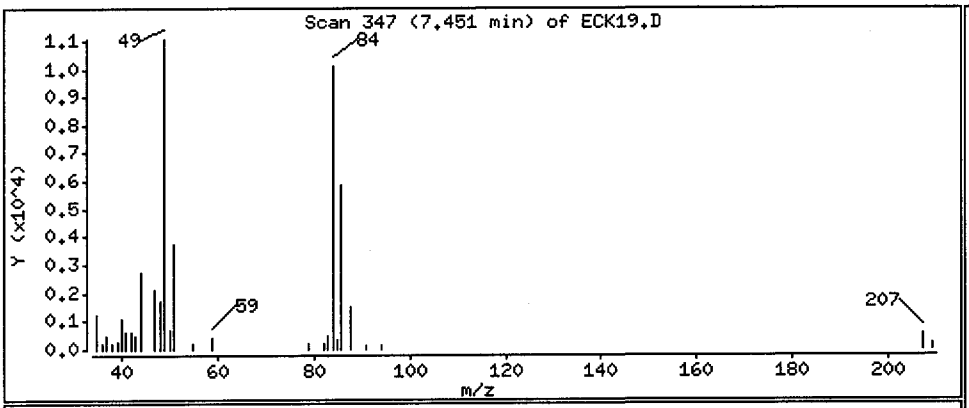
Operator: VOC

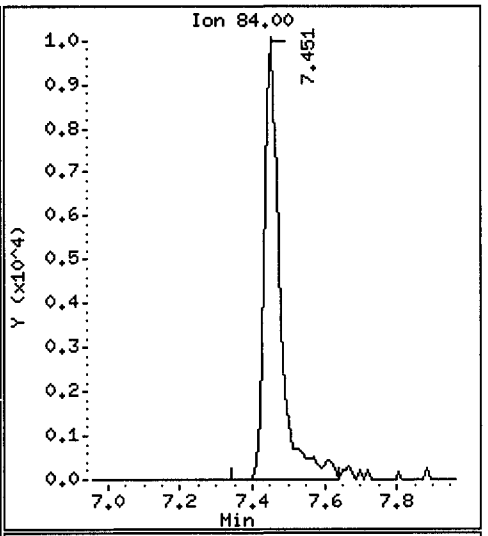
Column phase: RTX 624

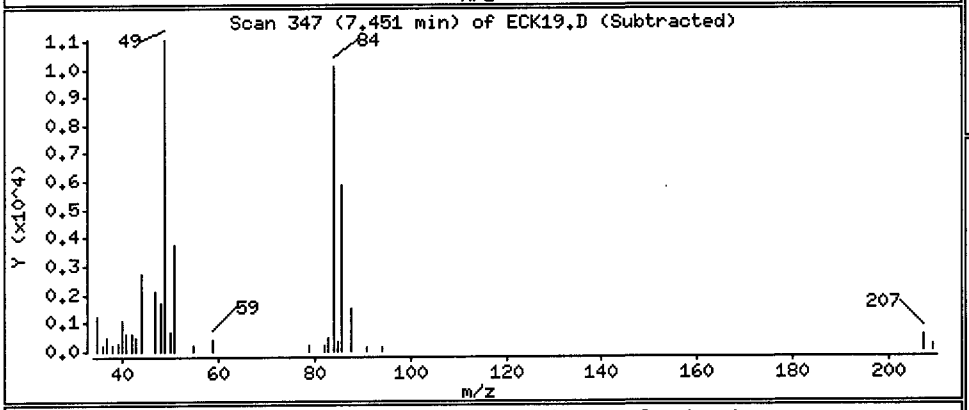
Column diameter: 0.25

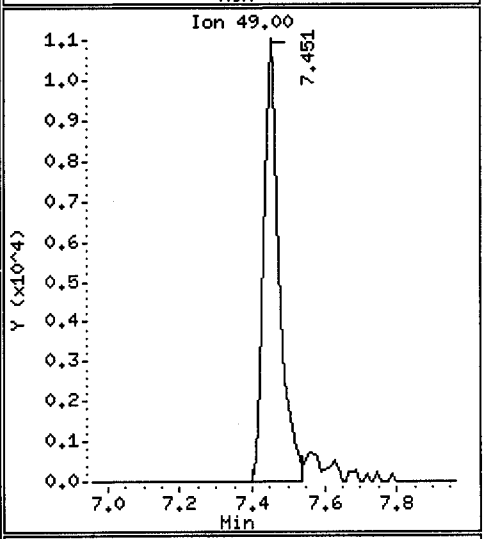
13 Methylene Chloride

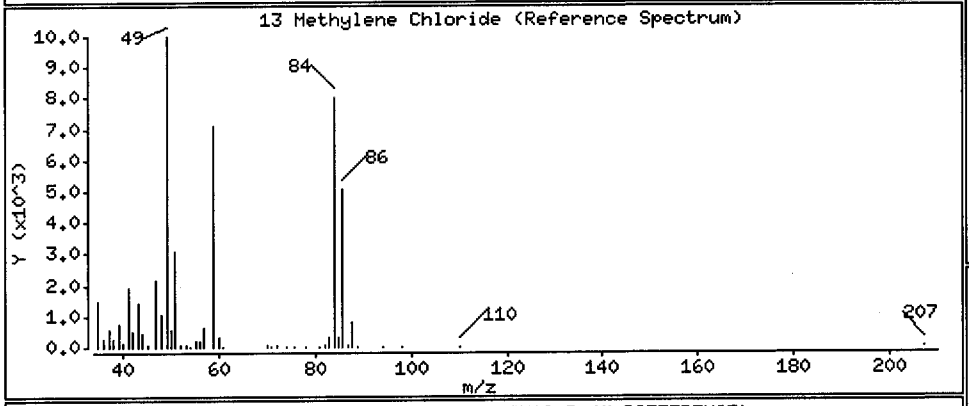
Concentration: 2.3750 UG/L

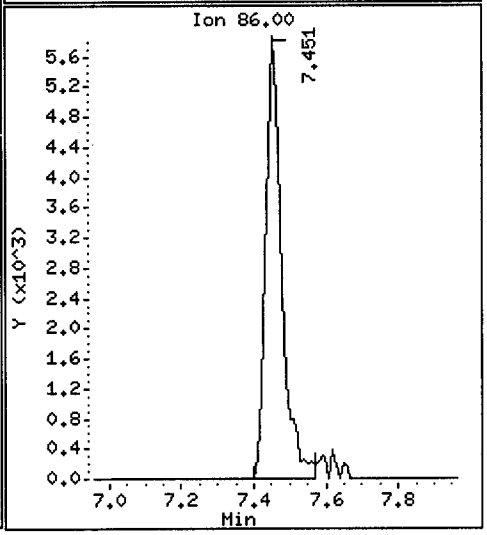


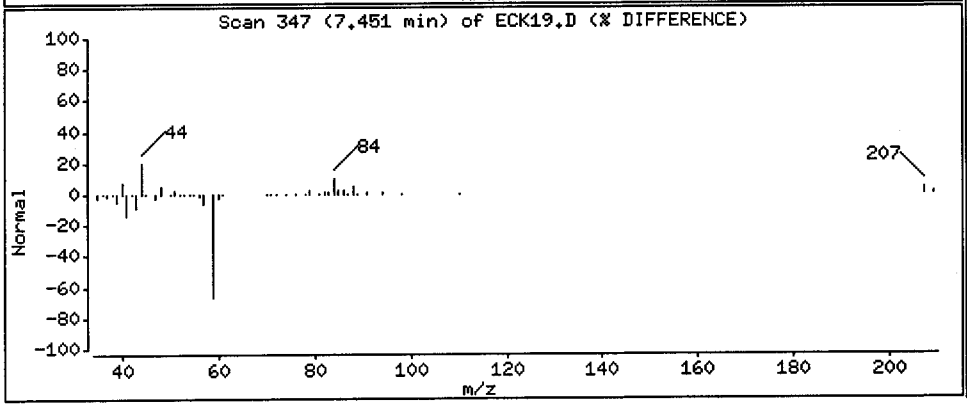












[Methylene Chloride; before version]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

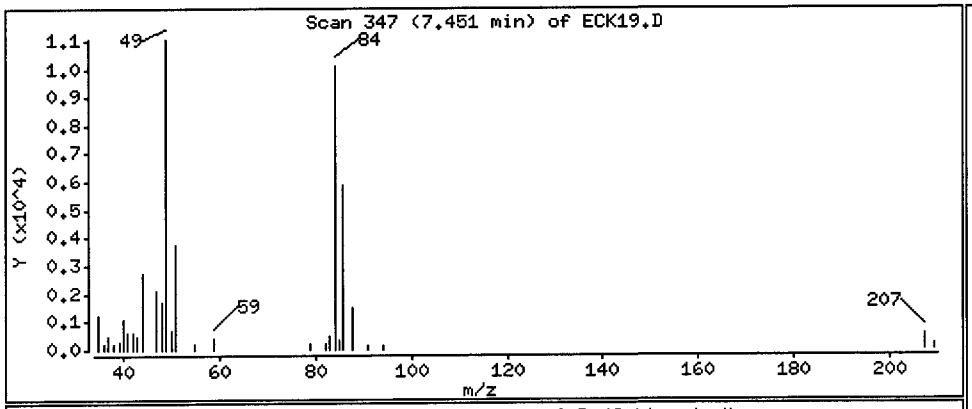
Operator: VOC

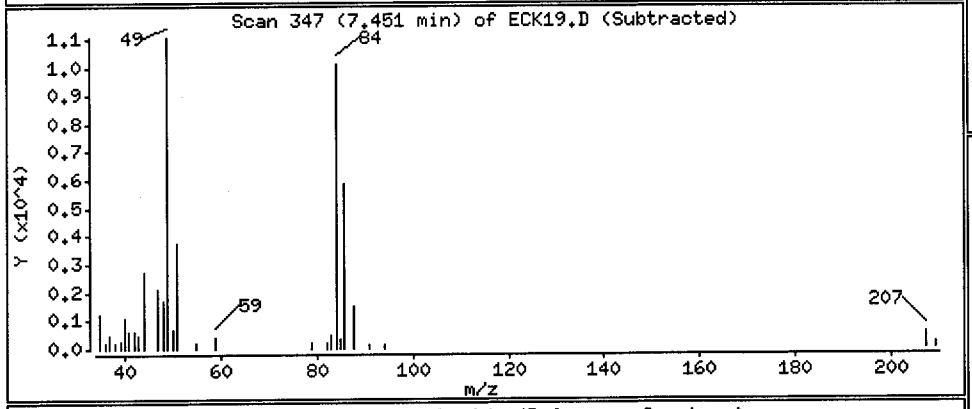
Column phase: RTX 624

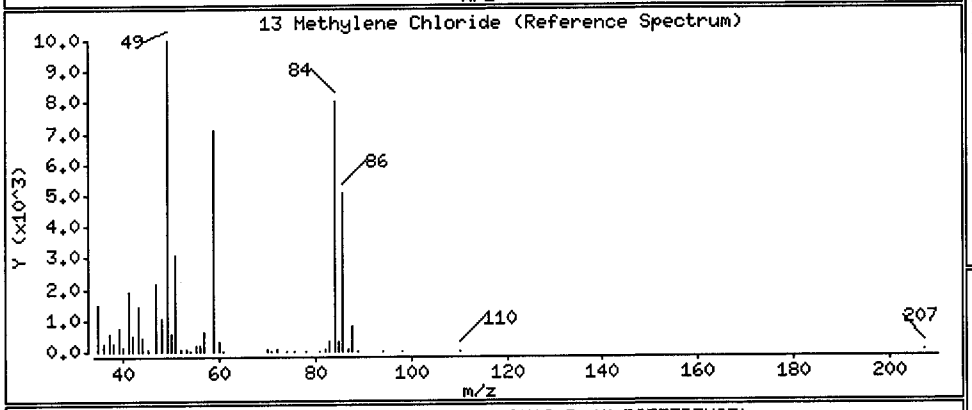
Column diameter: 0.25

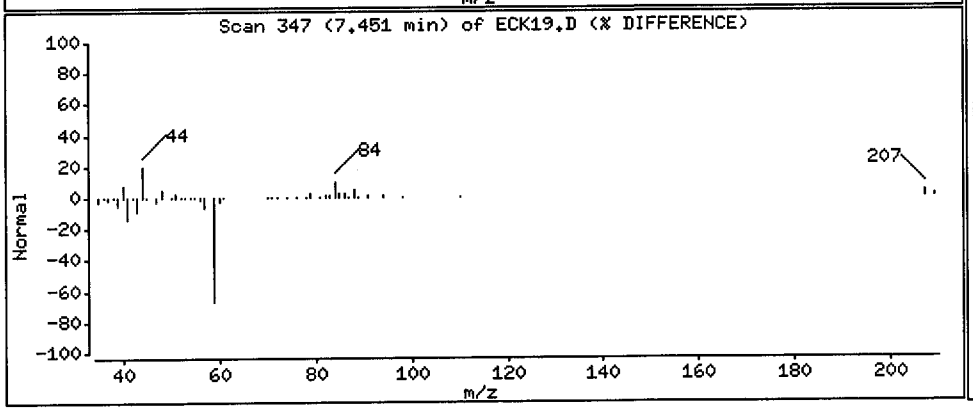
13 Methylene Chloride

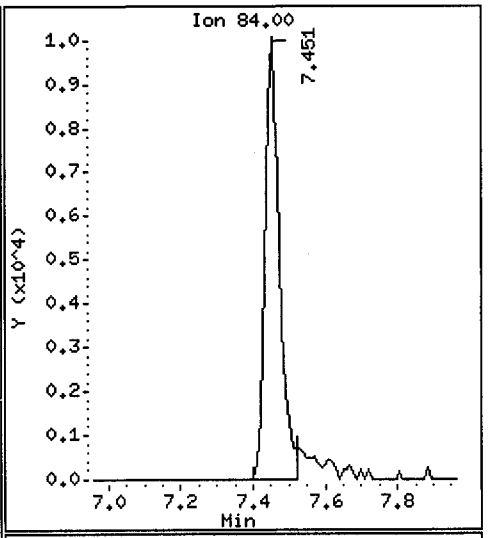
Concentration: 2.1608 UG/L

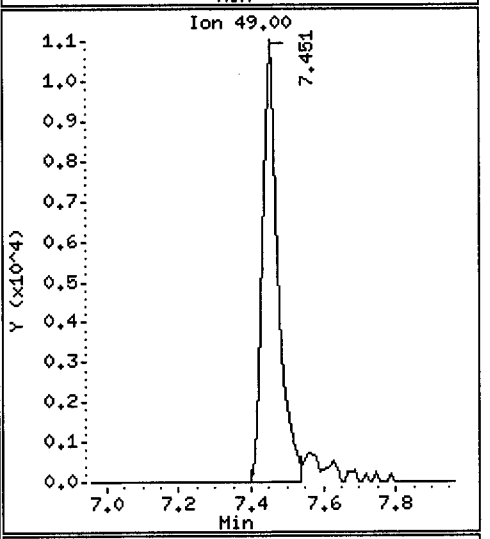


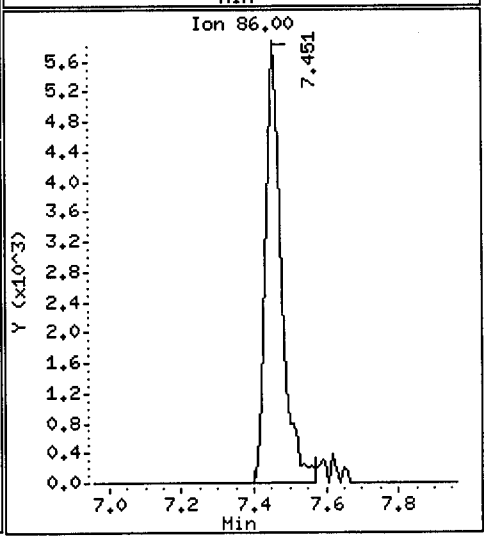












[2-Butanone; 10; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

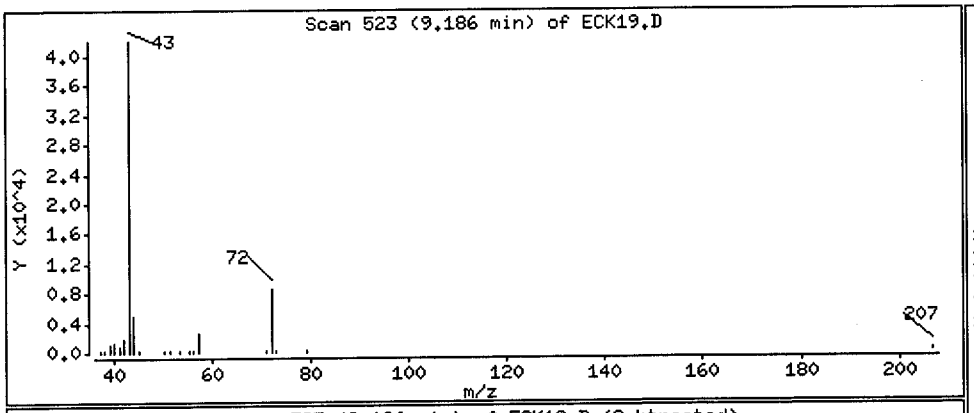
Operator: VOC

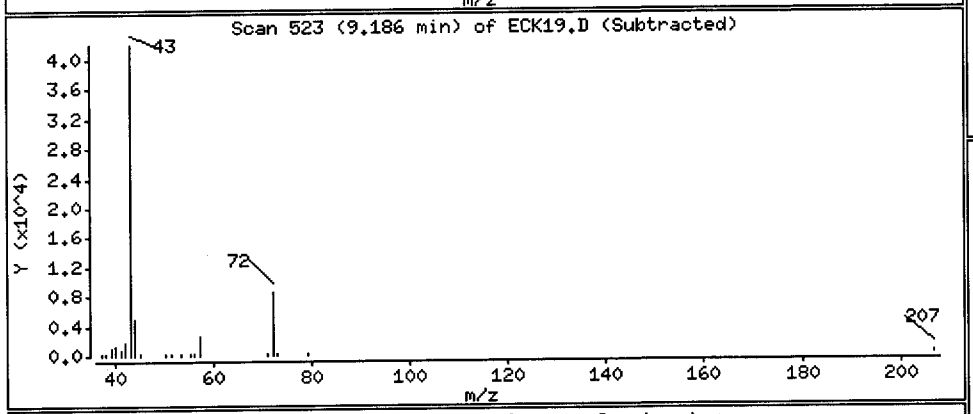
Column phase: RTX 624

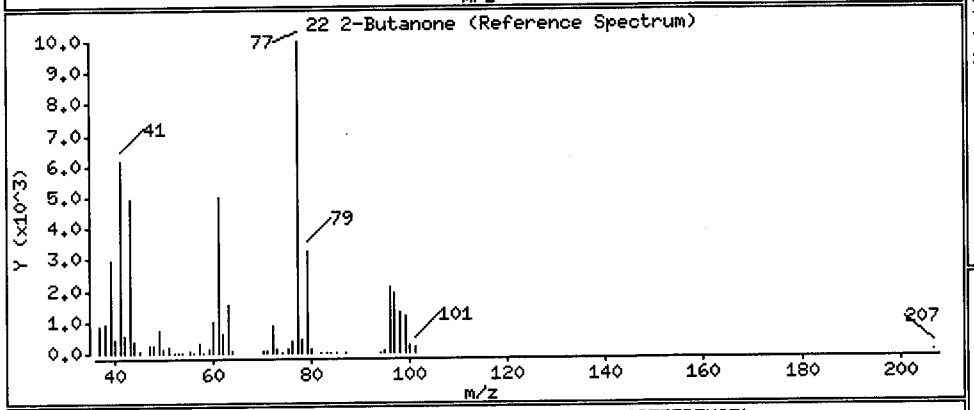
Column diameter: 0.25

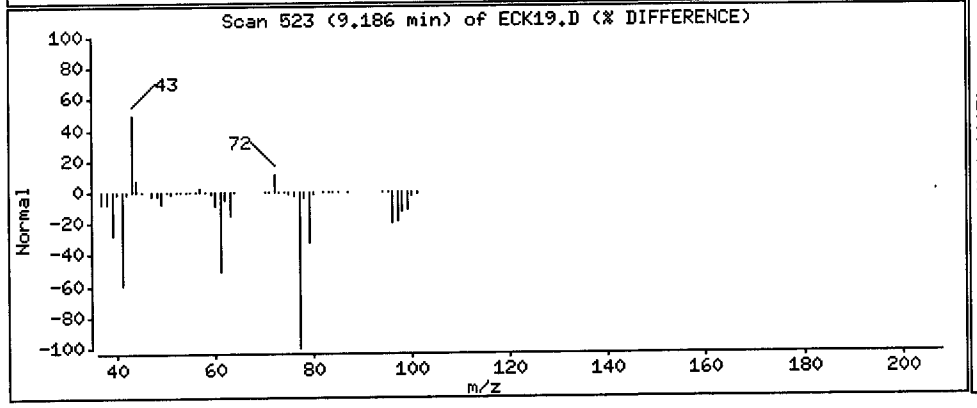
22 2-Butanone

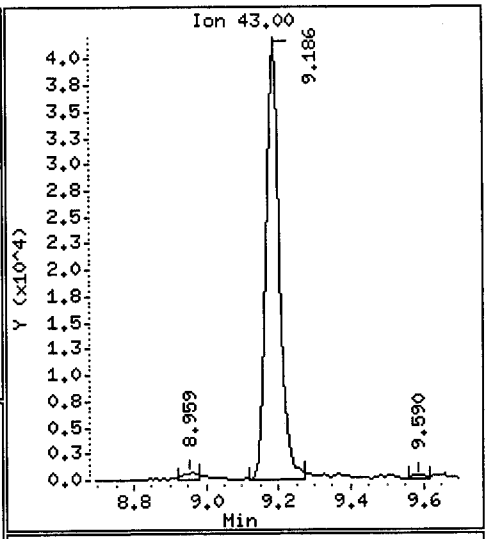
Concentration: 12.3335 UG/L

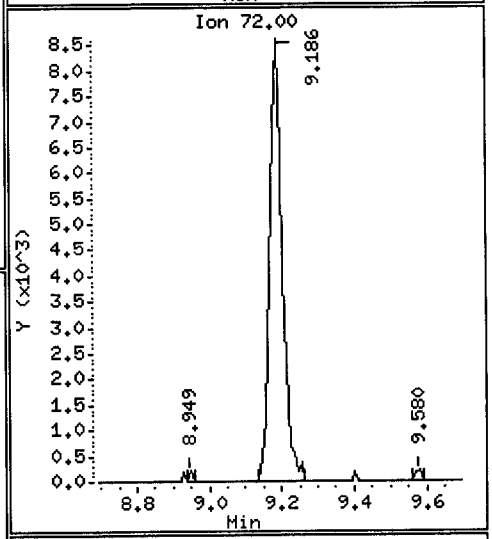


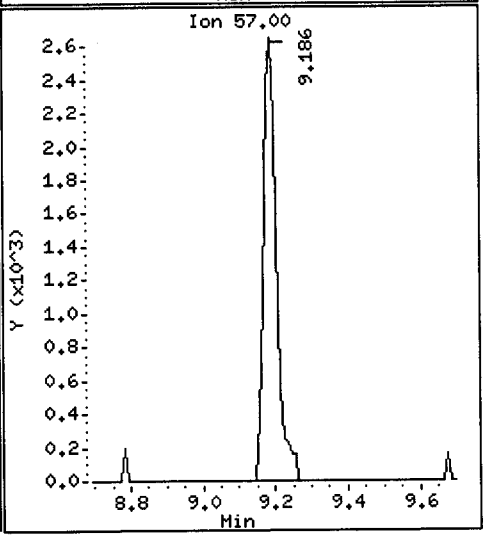












[Carbon Tetrachloride; 5.4; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

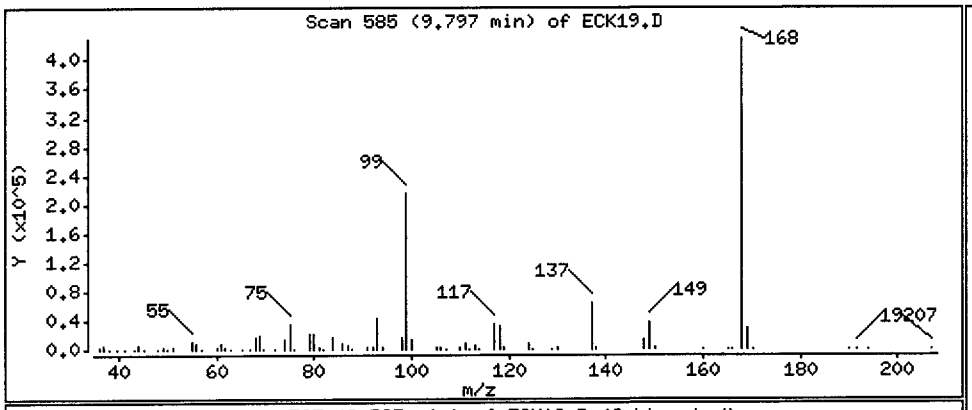
Operator: VOC

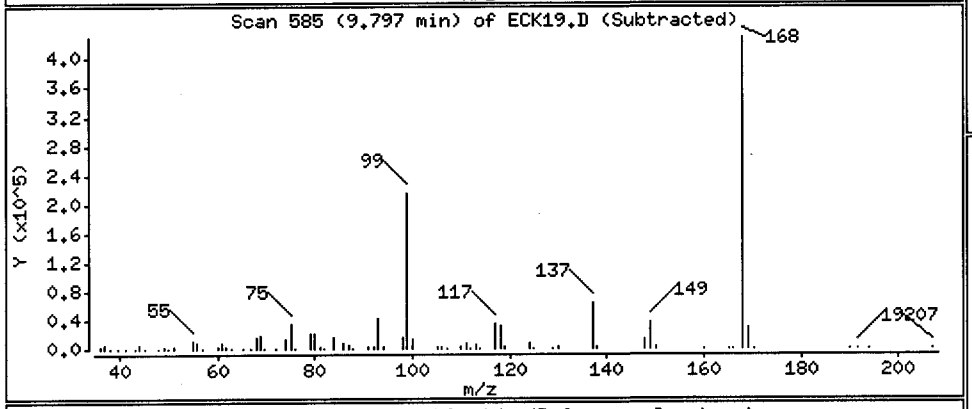
Column phase: RTX 624

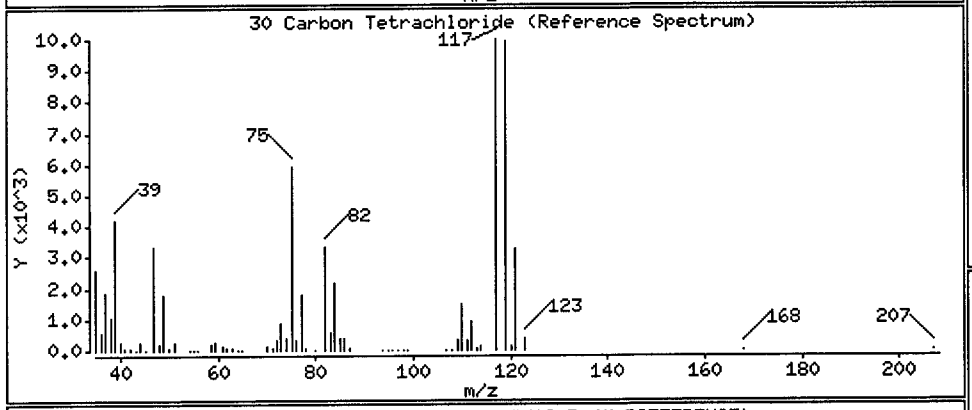
Column diameter: 0.25

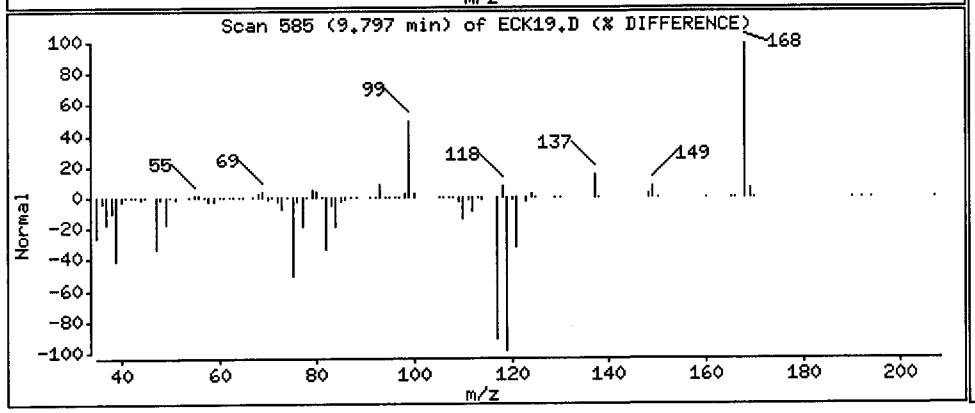
30 Carbon Tetrachloride

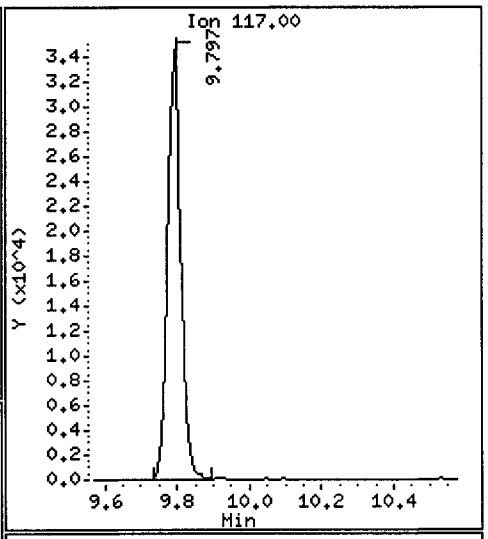
Concentration: 6.4898 UG/L

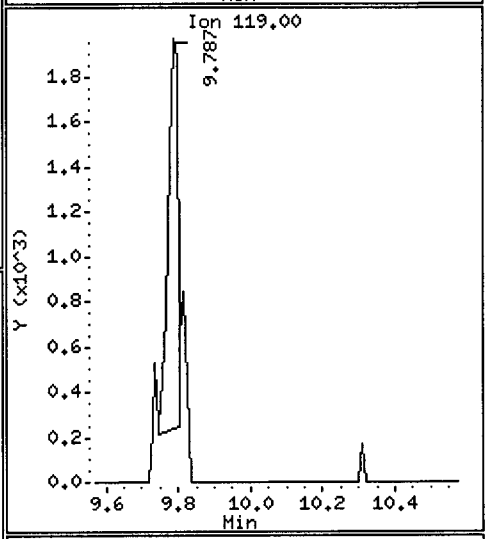


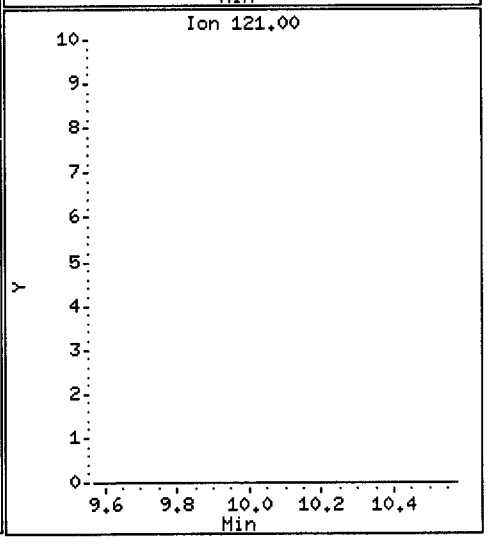












[1,1-Dichloropropene; 4.4; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

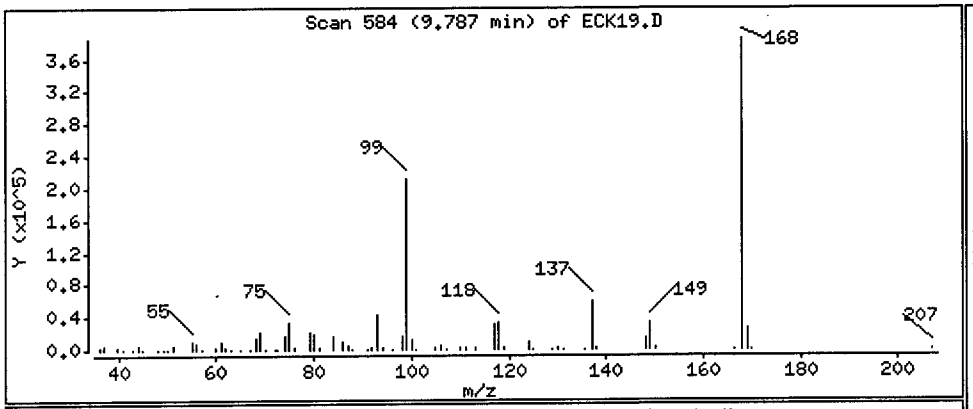
Operator: VOC

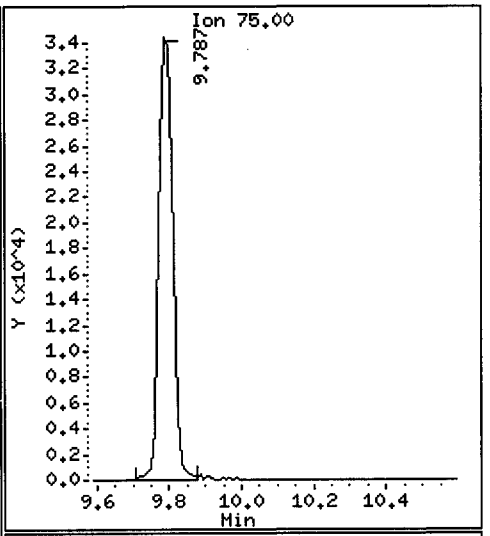
Column phase: RTX 624

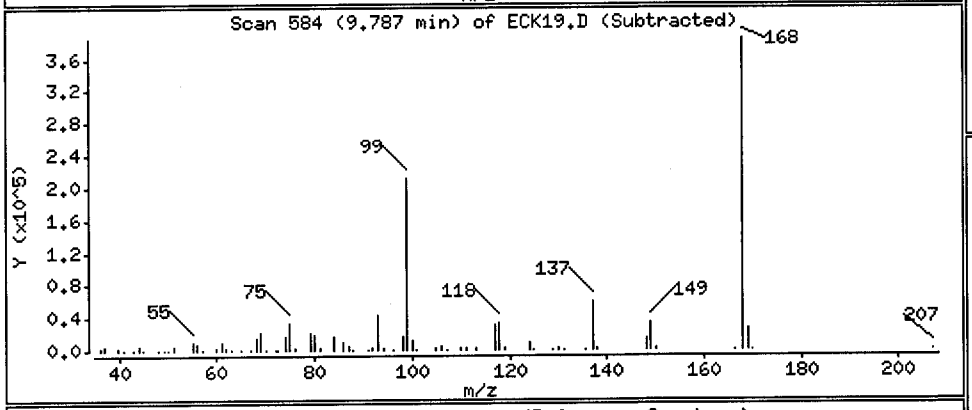
Column diameter: 0.25

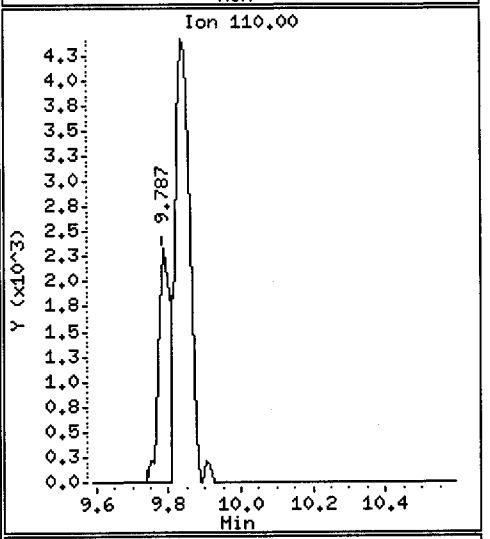
31 1,1-Dichloropropene

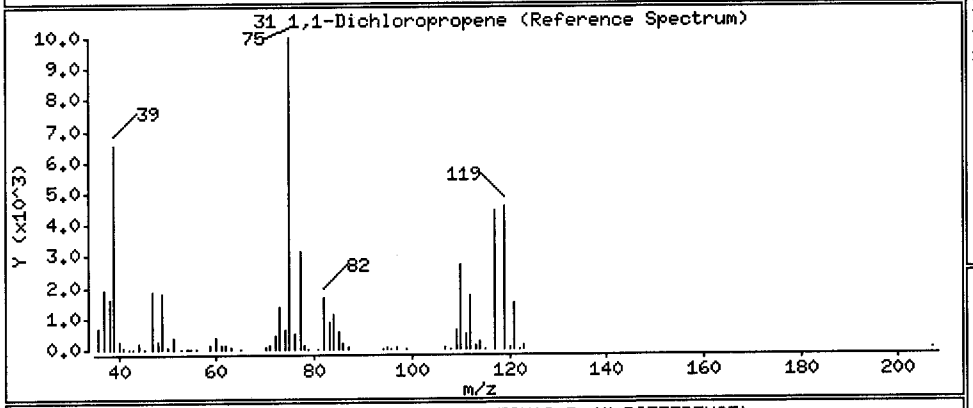
Concentration: 5.2795 UG/L

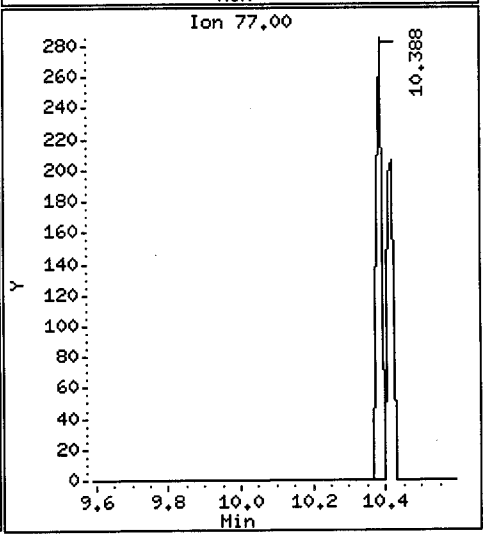


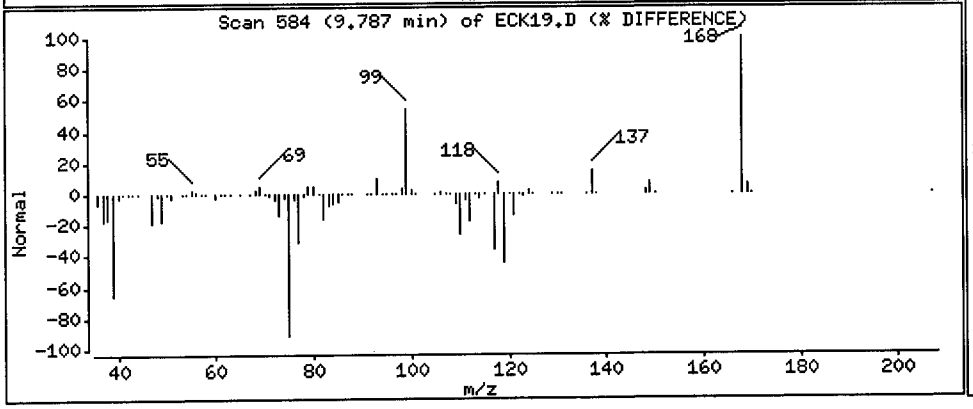












[1,2-Dichloroethane; 2.5 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

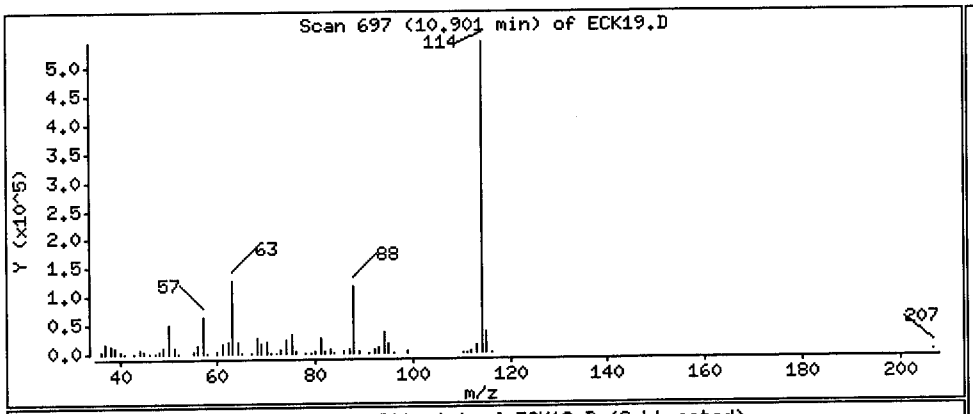
Operator: VOC

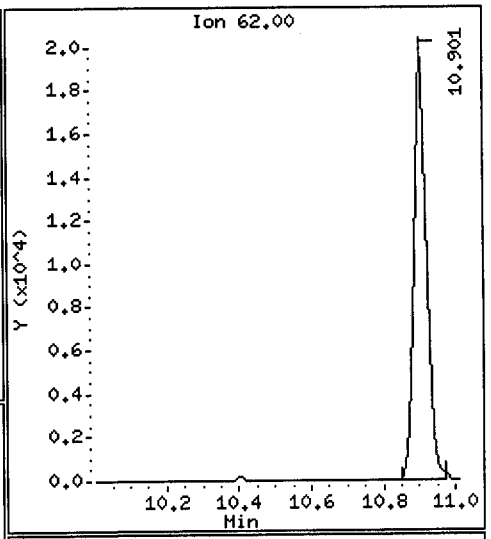
Column phase: RTX 624

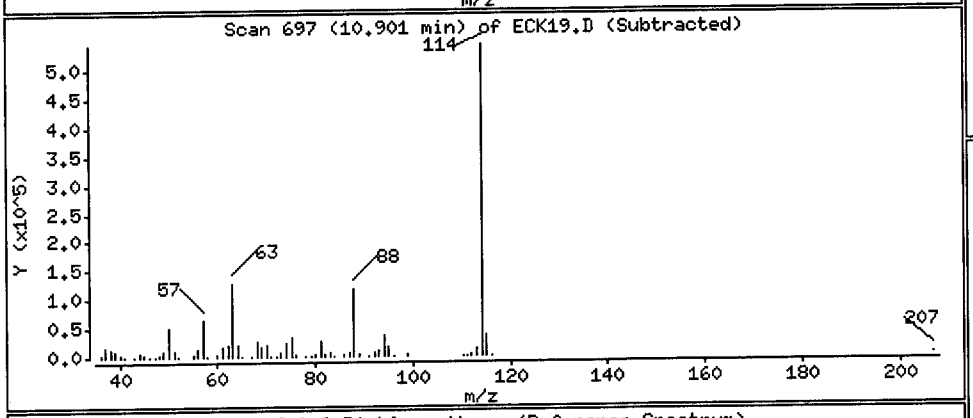
Column diameter: 0.25

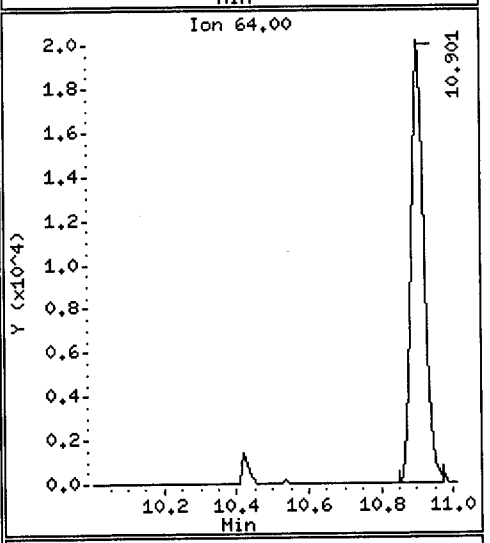
35 1,2-Dichloroethane

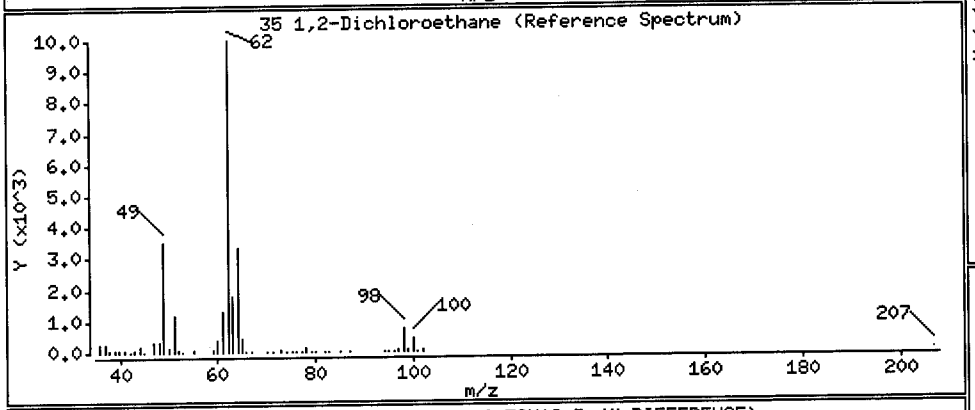
Concentration: 2.9998 UG/L

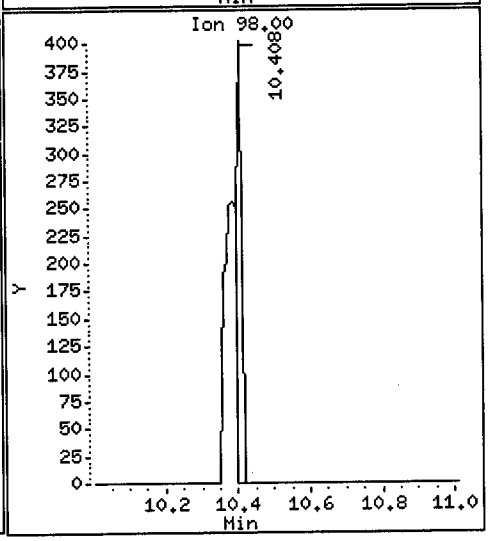


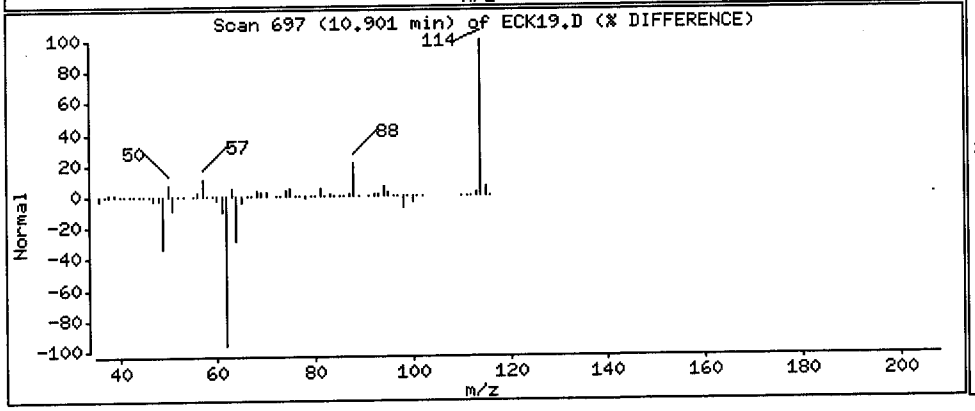












[Trichloroethene; 3.3 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

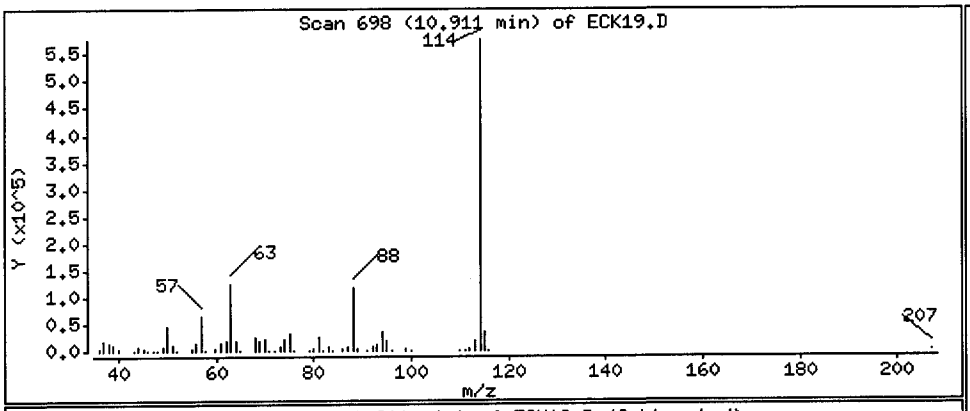
Operator: VOC

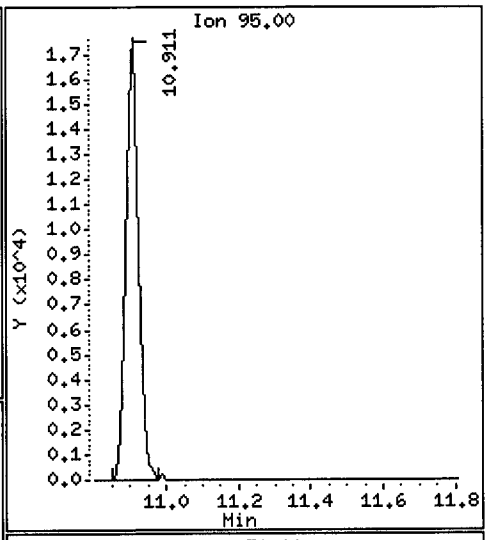
Column phase: RTX 624

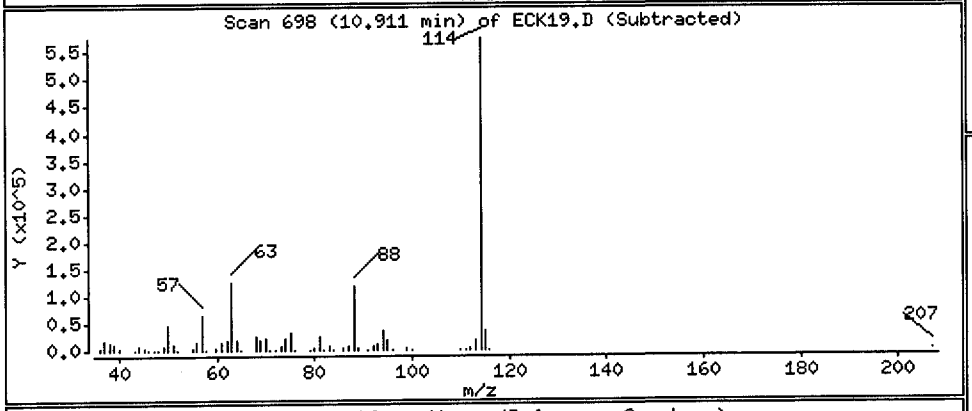
Column diameter: 0.25

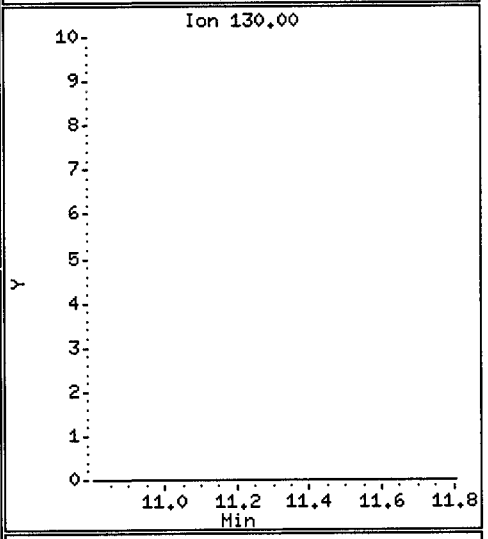
37 Trichloroethene

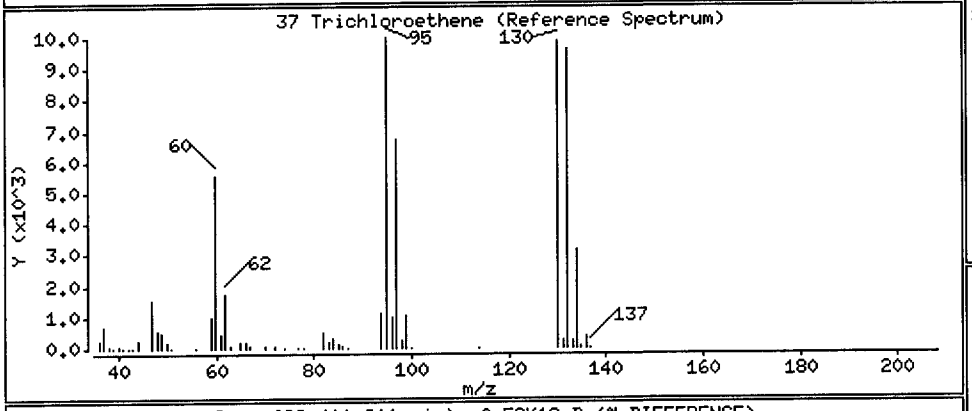
Concentration: 3.9289 UG/L

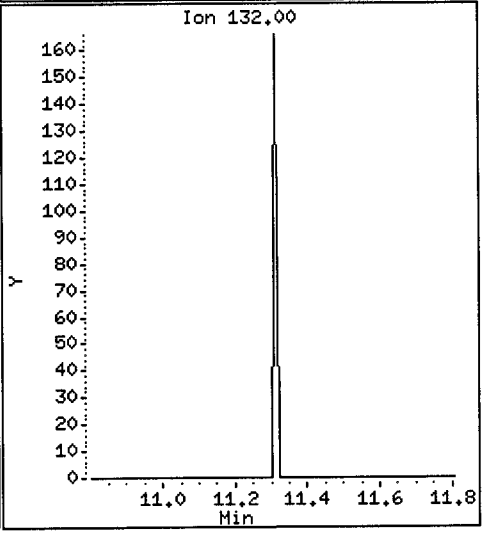


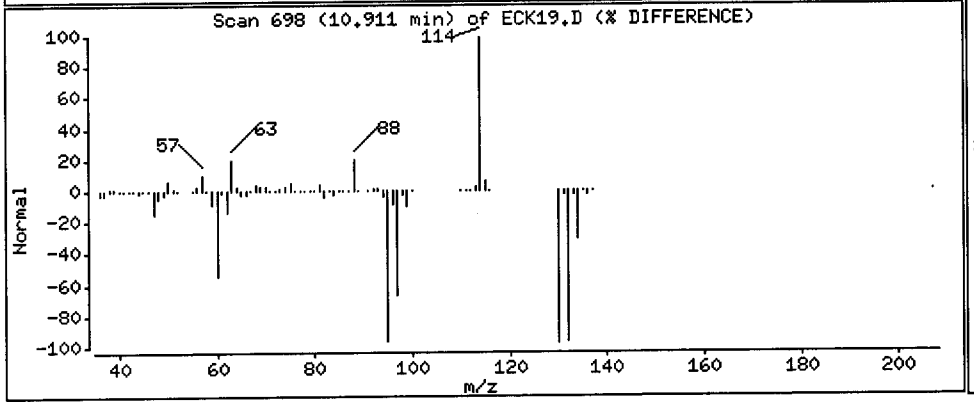












[4-Methyl-2-Pentanone; 0.77 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

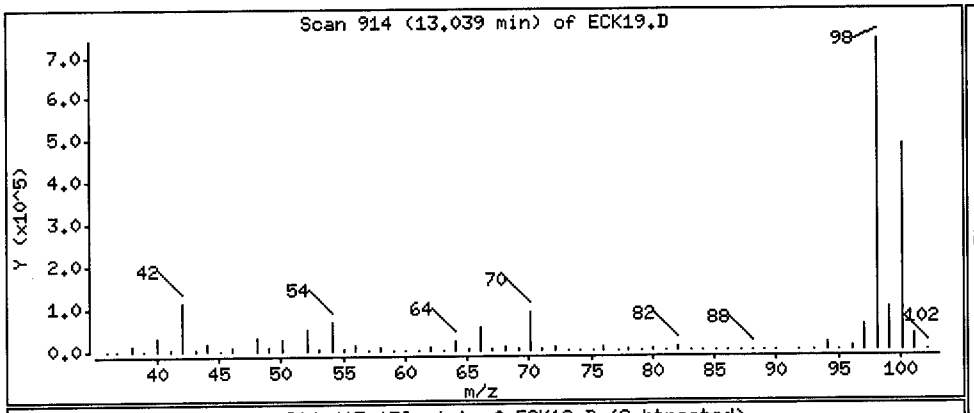
Operator: VOC

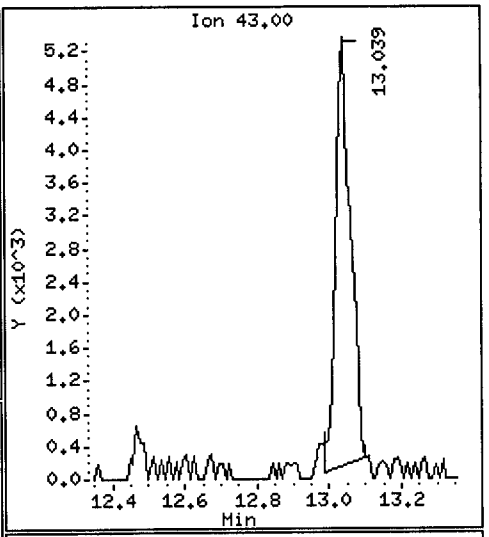
Column phase: RTX 624

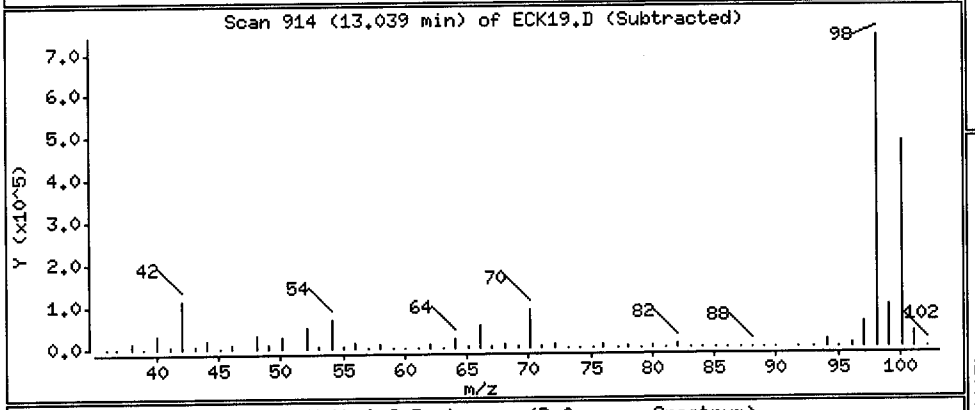
Column diameter: 0.25

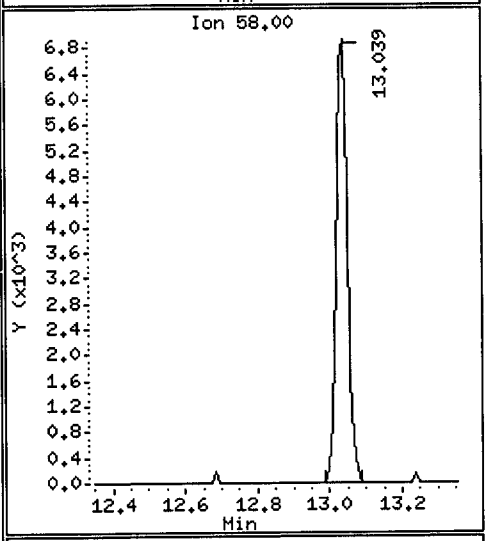
44 4-Methyl-2-Pentanone

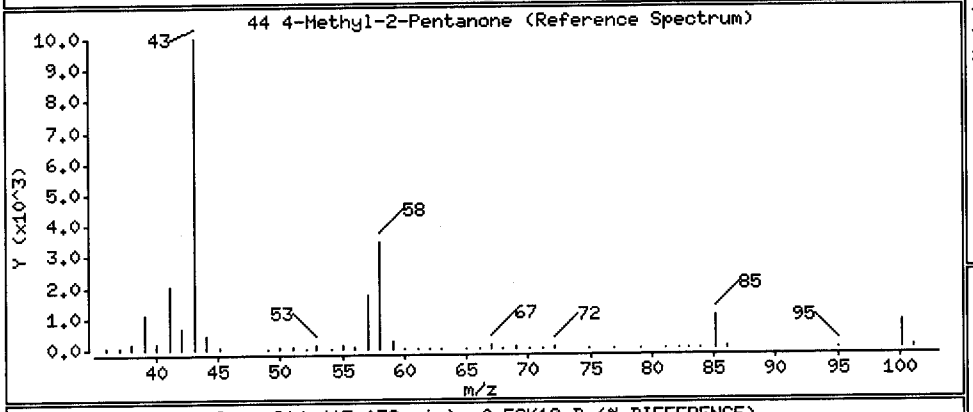
Concentration: 0.9208 UG/L

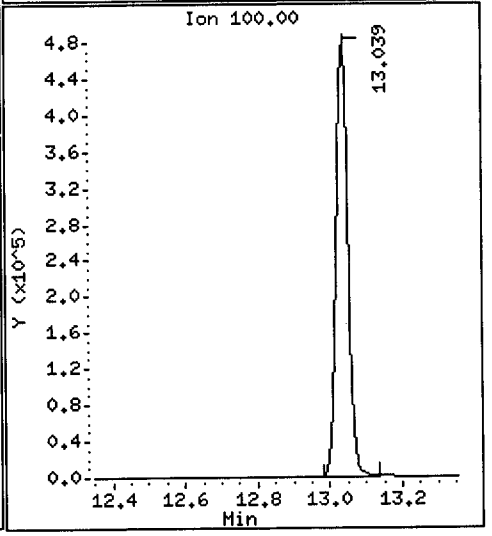


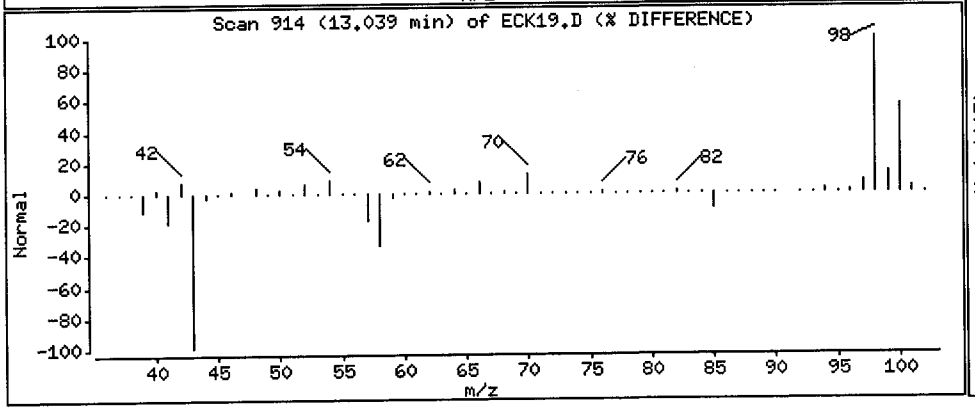












[2-Hexanone; 1.3 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

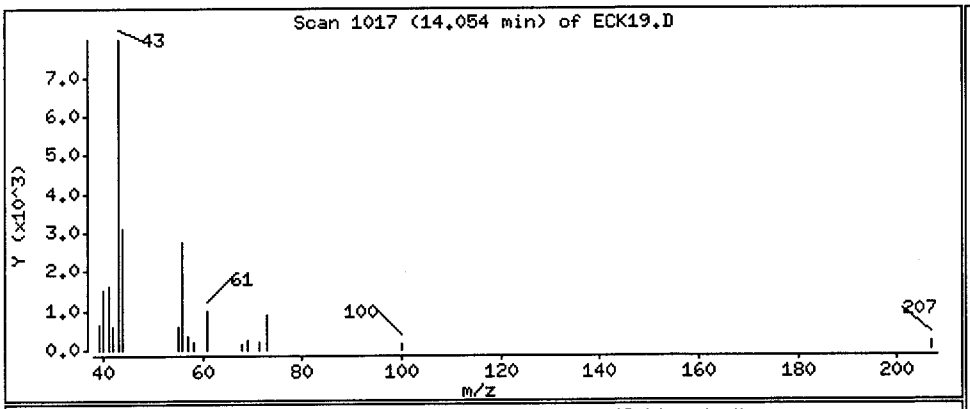
Operator: VOC

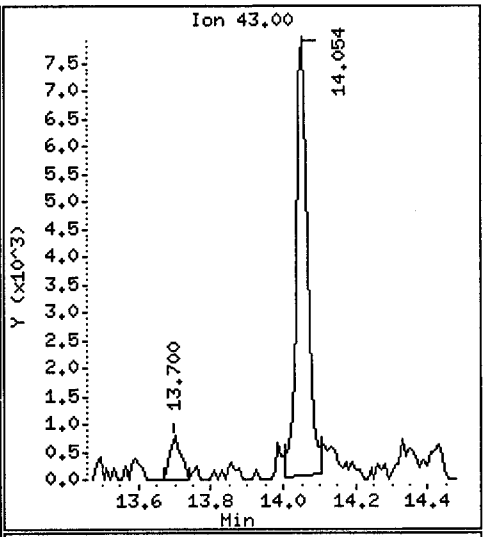
Column phase: RTX 624

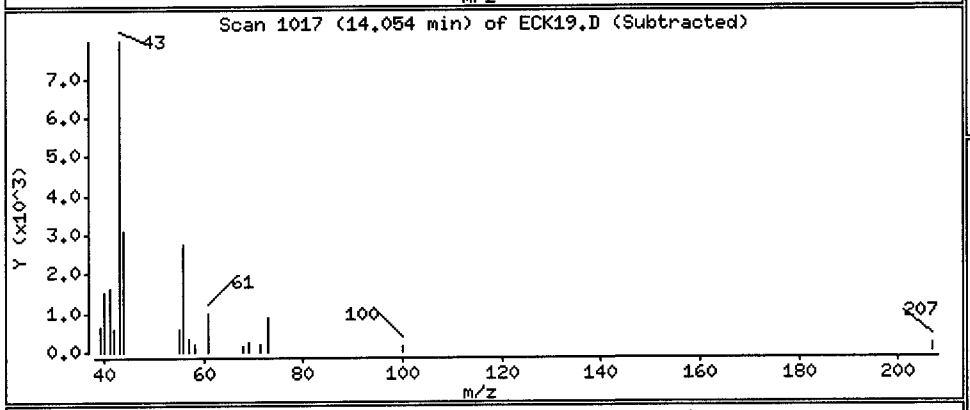
Column diameter: 0.25

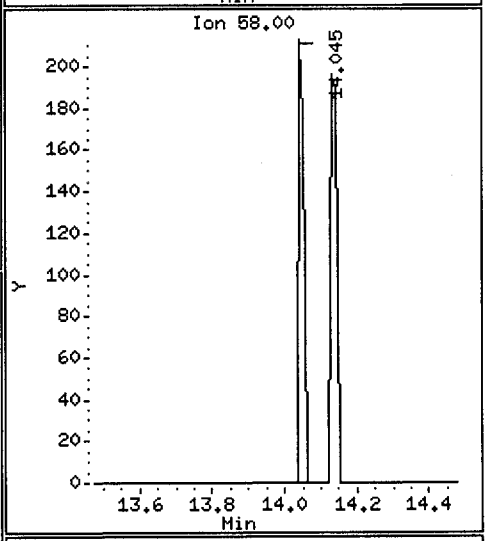
50 2-Hexanone

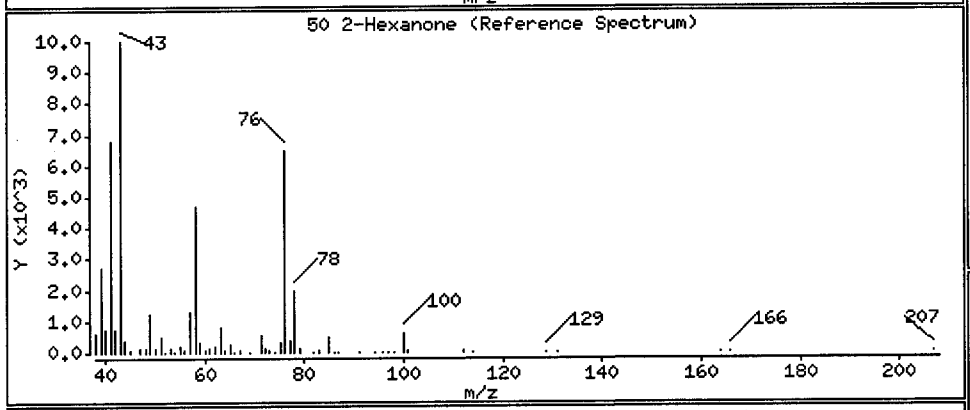
Concentration: 1.5804 UG/L

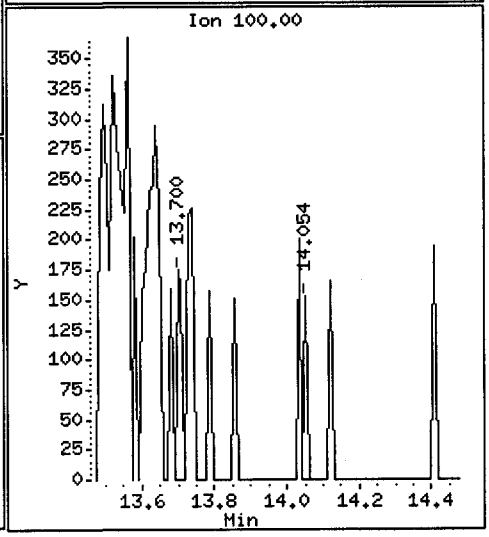


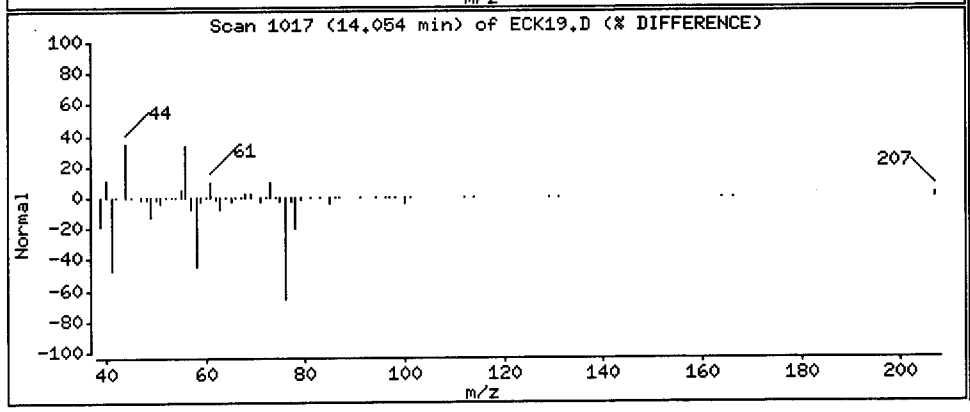












[1,2,3-Trichloropropane; 26; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

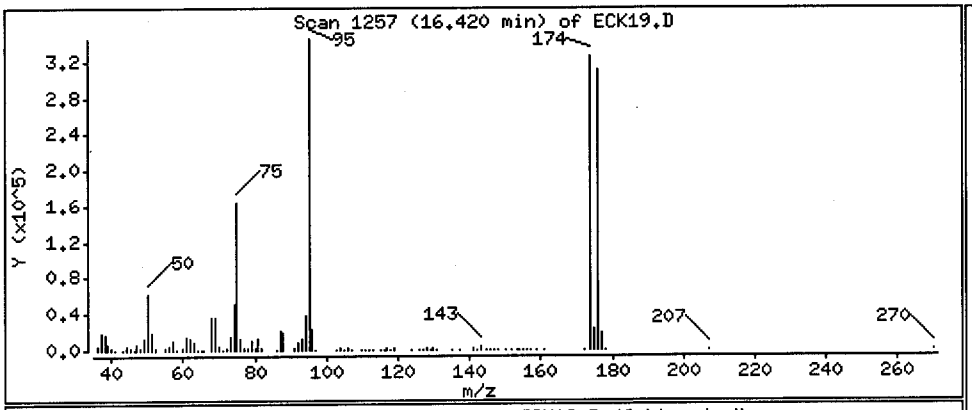
Operator: VOC

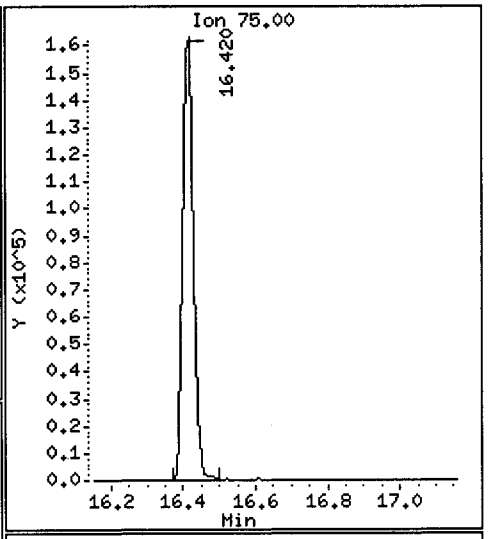
Column phase: RTX 624

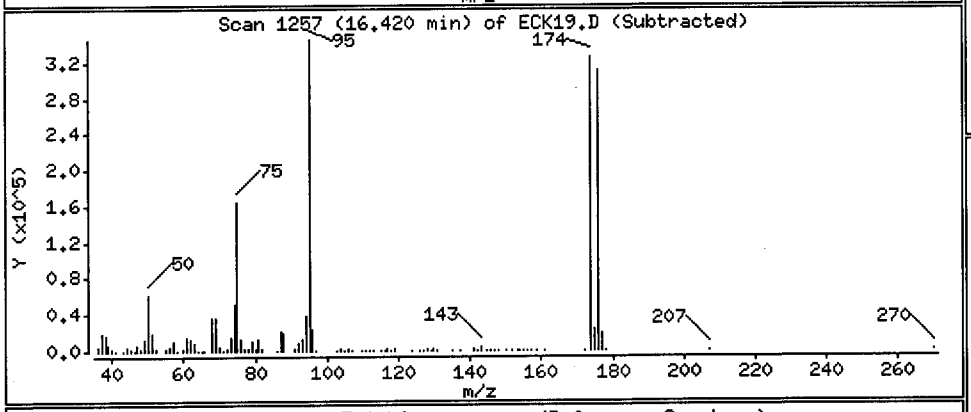
Column diameter: 0.25

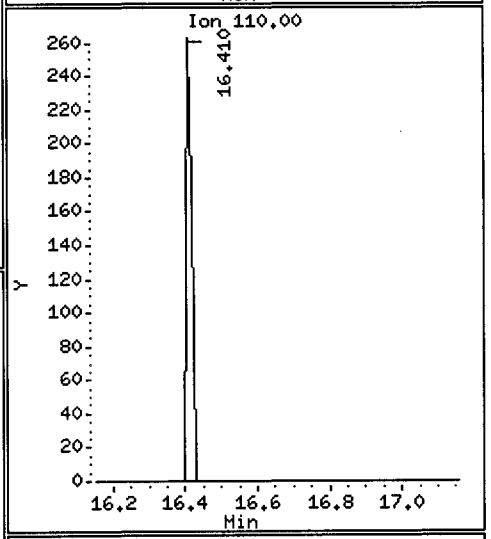
68 1,2,3-Trichloropropane

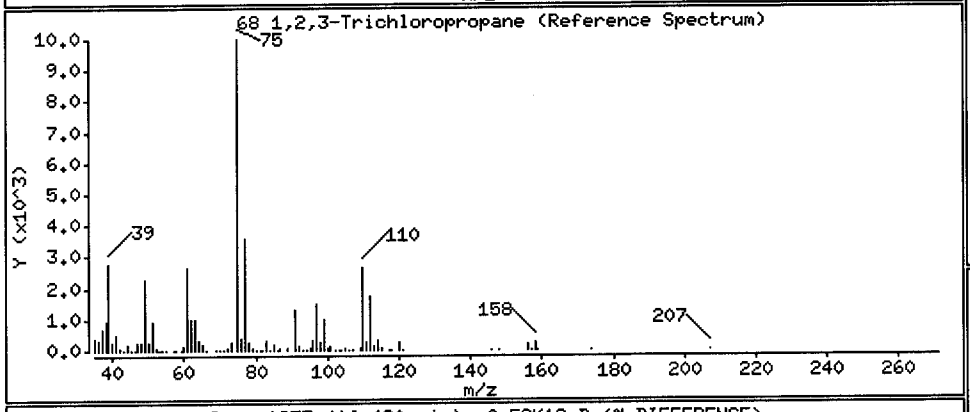
Concentration: 30.6496 UG/L

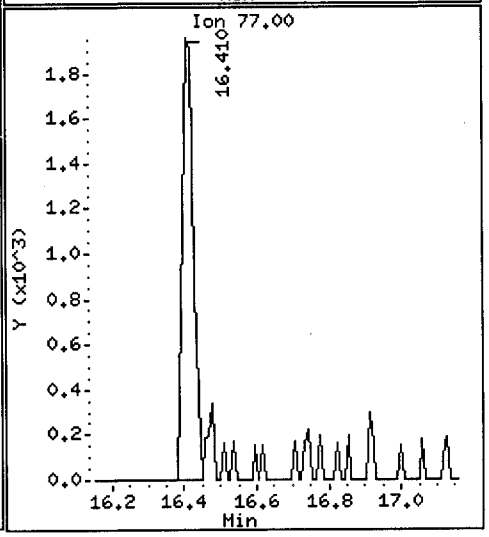


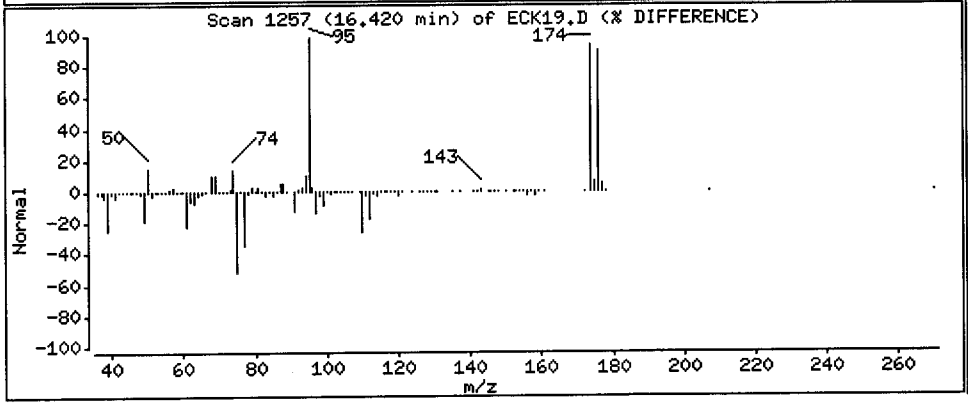












[Naphthalene; 0.79 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK19.D

Date : 20-MAR-2008 18:10

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: S,202043-007

Purge Volume: 5.0

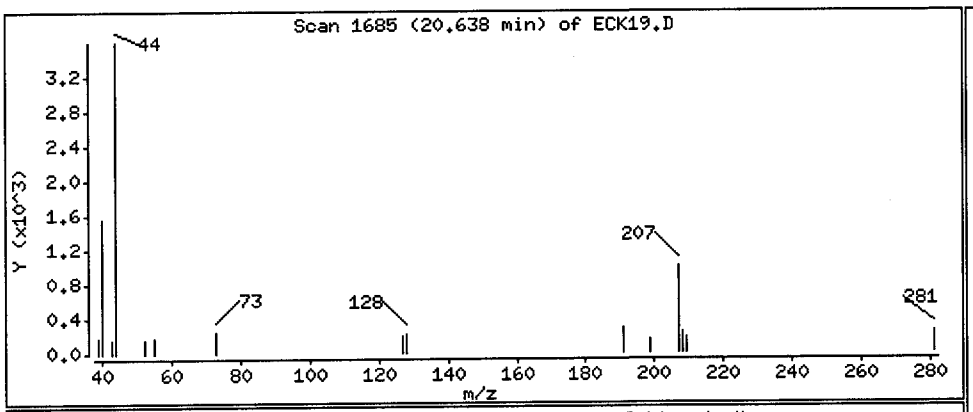
Operator: VOC

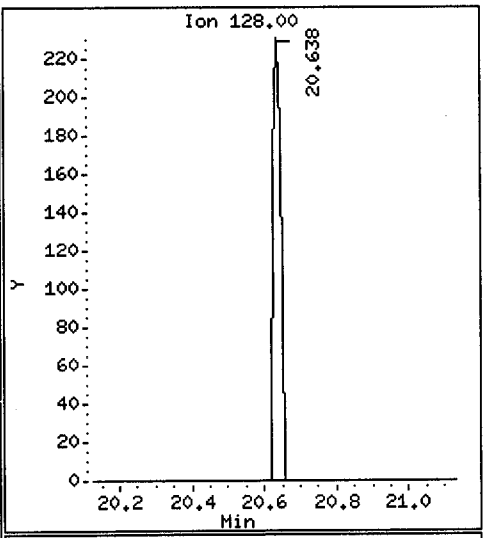
Column phase: RTX 624

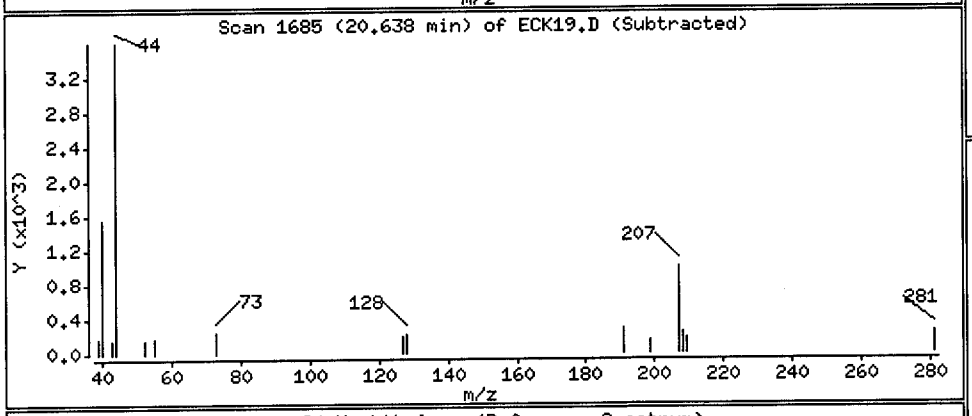
Column diameter: 0.25

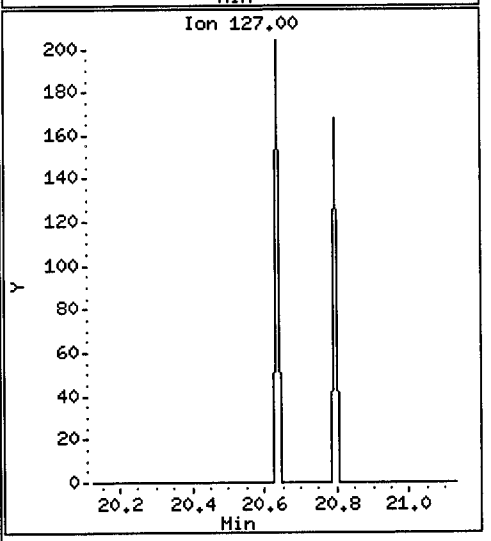
84 Naphthalene

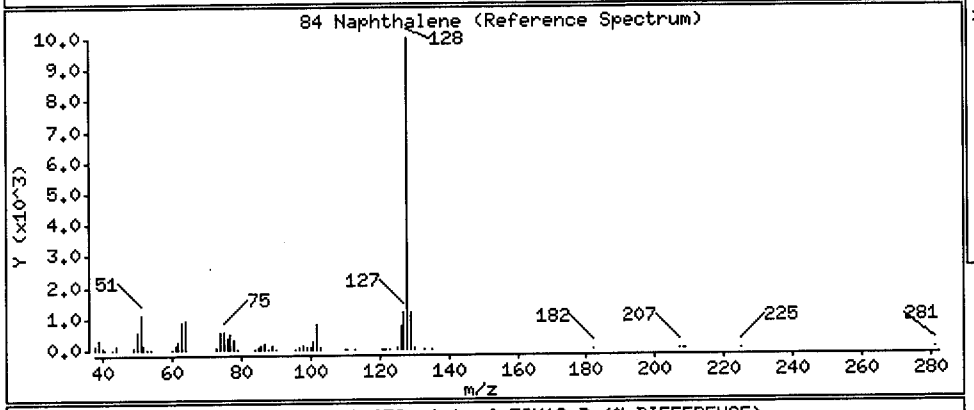
Concentration: 0.9535 UG/L

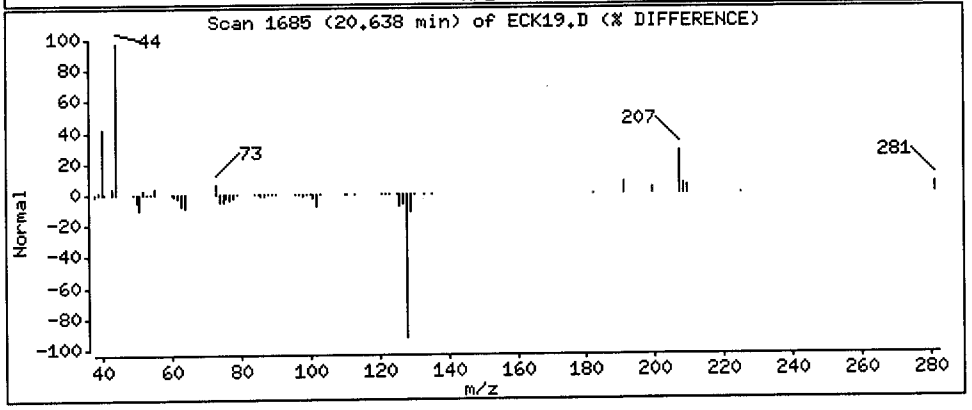












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst	: MSVOA04	Lab ID	: 202043-007 (M)	Client ID	: 1065EX312[6.0]
Seqnum	: 438117134016	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: dcl16	Batch	: 136236	Time	: 21-MAR-2008 16:08
Cal	: 438107113004	Caldate	: 14-MAR-2008	Caltype	: SOIL
IDF	: 25.0			Units	: ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	ND		250		c- v-
Chloromethane	ND		250		
Vinyl Chloride	ND		250		
Bromomethane	ND		250		
Chloroethane	ND		250		
Trichlorofluoromethane	ND		130		
Acetone	140 J		500		m u
Freon 113	ND		130		
1,1-Dichloroethene	3.1 J		130		
Methylene Chloride	ND		500	180	c+
Carbon Disulfide	ND		130		
MTBE	ND		130		
trans-1,2-Dichloroethene	ND		130		
Vinyl Acetate	ND		1300		
1,1-Dichloroethane	ND		130		
2-Butanone	60 J		250		
cis-1,2-Dichloroethene	ND		130		
2,2-Dichloropropane	ND		130		
Chloroform	ND		130		
Bromochloromethane	ND		130		
1,1,1-Trichloroethane	ND		130		
1,1-Dichloropropene	130	-0.305	130		x
Carbon Tetrachloride	190	-0.285	130		x
1,2-Dichloroethane	ND		130		
Benzene	ND		130		
Trichloroethene	ND		130		
1,2-Dichloropropane	ND		130		
Bromodichloromethane	ND		130		
Dibromomethane	7.2 J	-0.117	130		x
4-Methyl-2-Pentanone	ND		250		
cis-1,3-Dichloropropene	ND		130		
Toluene	ND		130		
trans-1,3-Dichloropropene	2.6 J	-0.147	130		x
1,1,2-Trichloroethane	2.6 J		130		
2-Hexanone	ND		250		
1,3-Dichloropropane	ND		130		
Tetrachloroethene	ND		130		
Dibromochloromethane	ND		130		
1,2-Dibromoethane	ND		130		
Chlorobenzene	ND		130		
1,1,1,2-Tetrachloroethane	ND		130		
Ethylbenzene	ND		130		
m,p-Xylenes	ND		130		
o-Xylene	ND		130		
Styrene	ND		130		
Bromoform	ND		130		
Isopropylbenzene	ND		130		
1,1,2,2-Tetrachloroethane	ND		130		
1,2,3-Trichloropropane	590	-0.235	130		x

438117134016

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	ND		130		
Bromobenzene	ND		130		
1,3,5-Trimethylbenzene	ND		130		
2-Chlorotoluene	ND		130		
4-Chlorotoluene	ND		130		
tert-Butylbenzene	ND		130	18	
1,2,4-Trimethylbenzene	ND		130	14	
sec-Butylbenzene	ND		130	16	
para-Isopropyl Toluene	ND		130	17	
1,3-Dichlorobenzene	ND		130		
1,4-Dichlorobenzene	ND		130		
n-Butylbenzene	ND		130	14	
1,2-Dichlorobenzene	ND		130		
1,2-Dibromo-3-Chloropropane	ND		130		
1,2,4-Trichlorobenzene	ND		130		
Hexachlorobutadiene	ND		130		c-
Naphthalene	ND		130	24	
1,2,3-Trichlorobenzene	ND		130		

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	1250	1468	117	78-126	
1,2-Dichloroethane-d4	1250	1512	121	76-137	
Toluene-d8	1250	1411	113	80-120	
Bromofluorobenzene	1250	1203	96	80-121	
Trifluorotoluene	1250	1197	96	52-145	

ISTD (ICAL dce12)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	402255	436386	8.48	10.00	9.96	-0.04
1,4-Difluorobenzene	600047	589207	-1.81	11.12	11.09	-0.03
Chlorobenzene-d5	504409	614603	21.85	15.22	15.21	-0.01
1,4-Dichlorobenzene-d4	272365	399442	46.66	17.95	17.95	0.00

MJD 03/21/08 [Acetone]: Worked up for this analyte.

MJD 03/21/08 [Acetone]: RTS due to methanol.

MJD 03/24/08 : See file ecl11 for methanol prep blank.

(not in upper half)

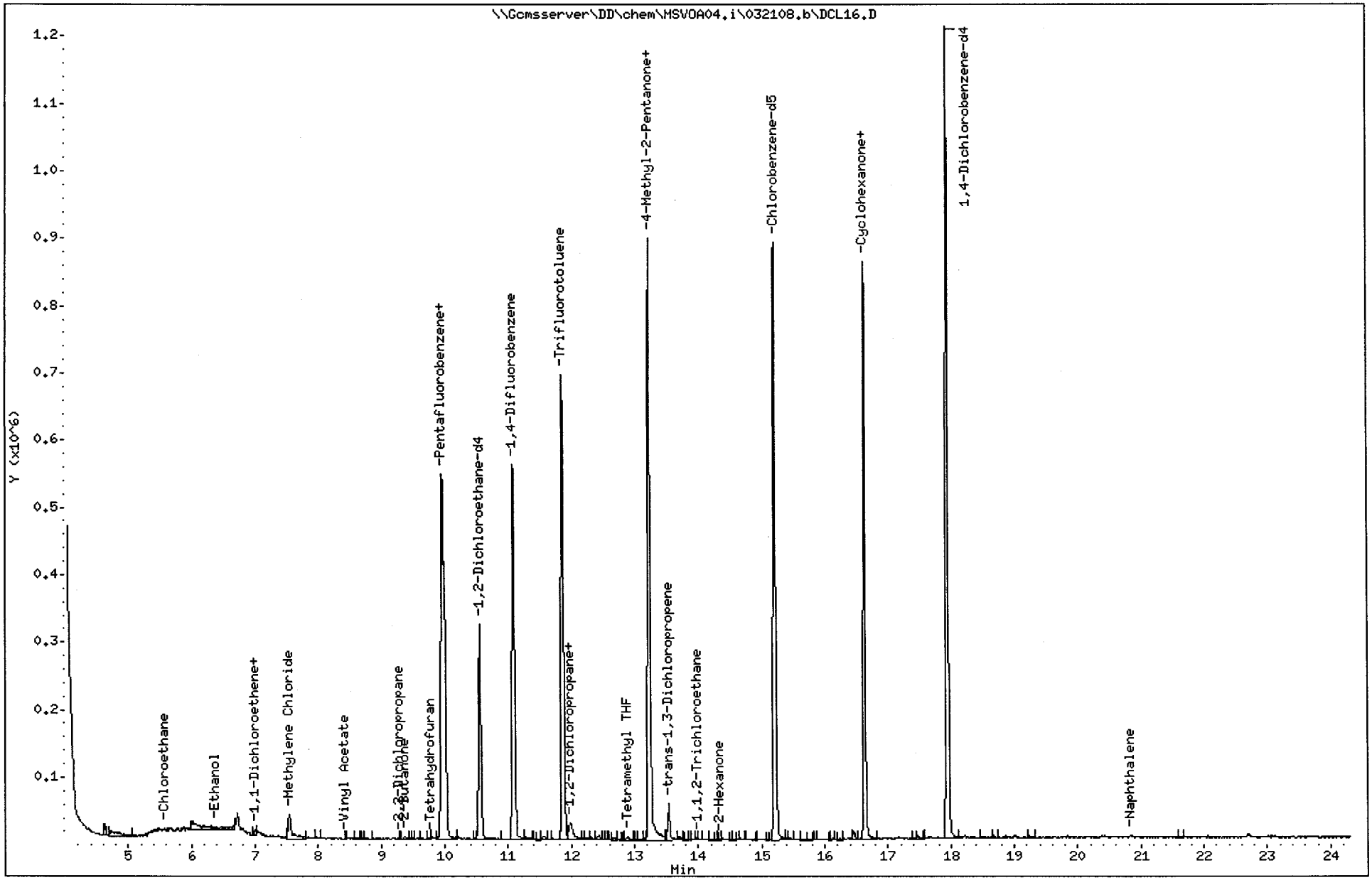
Analyst: MJD Date: 03/21/08 Reviewer: ACM Date: 03/21/08

+=high bias -=low bias c=CCV m=manual integration u=use v=ICV x=false positive

438117134016

: 00266

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D
Date : 21-MAR-2008 16:08
Client ID: DYNA P&T
Instrument: MSVOA04.i
Sample Info: S,202043-007,136236,
Purge Volume: 5.0
Operator: VOC
Column phase: RTx Volatiles
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D
Report Date: 21-Mar-2008 17:05

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-MAR-2008 16:08 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : S,202043-007,136236,
Misc Info : 0.2/5,S8493,1000:0.2/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\826GOX4S.m
Meth Date : 21-Mar-2008 14:22 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 18:54 Cal File: DCE15.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
5	Chloroethane	64	5.568	5.709	(0.559)	706	0.15891	0.1589
7	Ethanol	45	6.367	6.350	(0.639)	337	3.02711	3.0271
9	1,1-Dichloroethene	96	6.801	6.863	(0.683)	665	0.12209	0.1220
10	Acetone	43	6.998	6.981	(0.703)	17163	5.45324	5.4532(M)
11	Isopropanol	45	7.077	7.070	(0.711)	725	1.06001	1.0600
13	Methylene Chloride	84	7.629	7.602	(0.766)	2087	0.31099	0.3109
18	Vinyl Acetate	43	8.507	8.529	(0.854)	1417	0.10105	0.1010
21	2-Butanone	43	9.375	9.376	(0.942)	9089	2.40154	2.4015
22	2,2-Dichloropropane	77	9.197	9.366	(0.924)	880	0.10313	0.1031
25	Tetrahydrofuran	42	9.779	9.761	(0.982)	862	0.40331	0.4033
* 27	Pentafluorobenzene	168	9.956	10.007	(1.000)	436386	50.0000	
28	Dibromofluoromethane	113	9.996	10.037	(1.004)	291580	58.7024	58.7023
30	Carbon Tetrachloride	117	9.956	10.273	(0.898)	43245	7.52449	7.5244
31	1,1-Dichloropropene	75	9.956	10.293	(0.898)	37560	5.36812	5.3681
32	1,2-Dichloroethane-d4	65	10.548	10.589	(0.951)	315019	60.4786	60.4786
* 36	1,4-Difluorobenzene	114	11.091	11.121	(1.000)	589207	50.0000	
38	Trifluorotoluene	146	11.860	11.900	(1.069)	388313	47.8676	47.8675
39	1,2-Dichloropropane	63	11.929	11.929	(1.076)	655	0.12080	0.1208
40	Dibromomethane	93	11.978	12.127	(1.080)	1147	0.28977	0.2897
43	Tetramethyl THF	43	12.885	12.876	(1.162)	2647	0.20468	0.2046
45	4-Methyl-2-Pentanone	43	13.221	13.073	(1.192)	4784	0.66173	0.6617
46	Toluene-d8	98	13.231	13.260	(1.193)	691598	56.4516	56.4515

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D
Report Date: 21-Mar-2008 17:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	48 trans-1,3-Dichloropropene	75	13.517	13.694	(1.219)	807	0.10451	0.1045
	49 1,1,2-Trichloroethane	85	13.951	13.960	(1.258)	262	0.10434	0.1043
	51 2-Hexanone	43	14.365	14.207	(0.944)	920	0.14415	0.1441
*	55 Chlorobenzene-d5	117	15.213	15.222	(1.000)	614603	50.0000	
	64 Cyclohexanone	55	16.633	16.612	(0.927)	2820	1.67678	1.6767
	65 Bromofluorobenzene	95	16.623	16.642	(0.926)	361372	48.1274	48.1273
	69 1,2,3-Trichloropropane	75	16.623	16.878	(0.926)	187078	23.5896	23.5895
*	78 1,4-Dichlorobenzene-d4	152	17.945	17.953	(1.000)	399442	50.0000	
	85 Naphthalene	128	20.834	20.841	(1.161)	4244	0.18000	0.1800

QC Flag Legend

M - Compound response manually integrated.

[1,1-Dichloroethene; 3.1 J]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

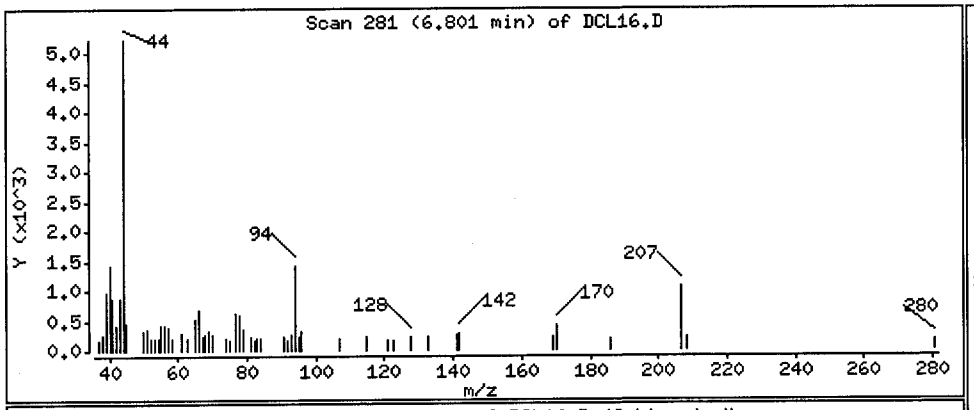
Operator: VOC

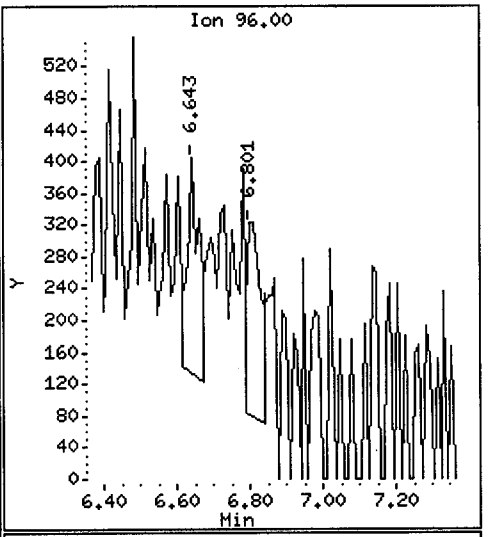
Column phase: RTx Volatiles

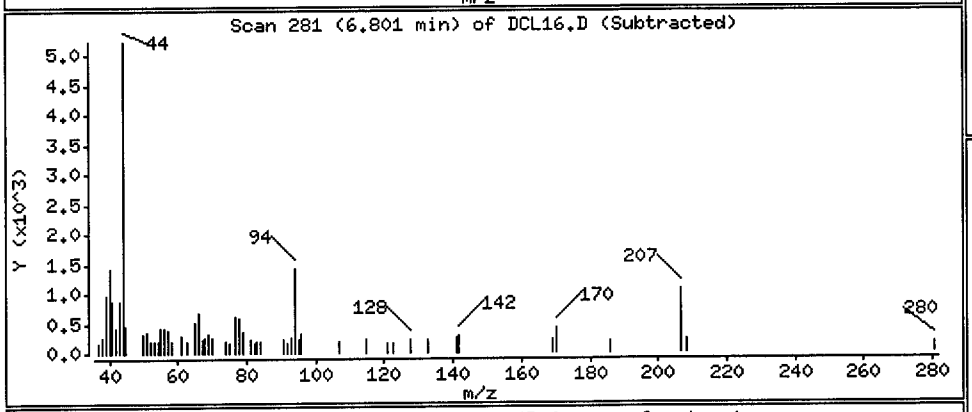
Column diameter: 0.32

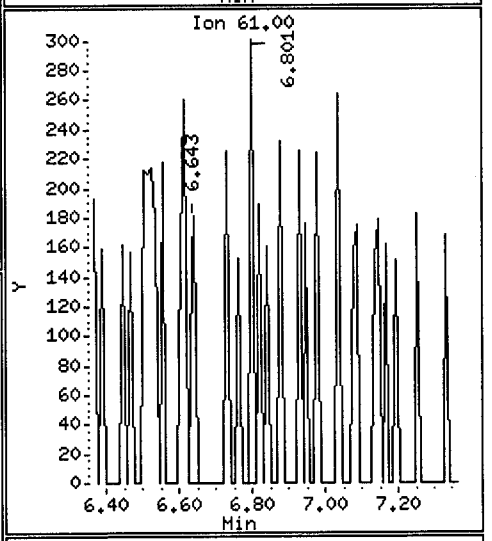
9 1,1-Dichloroethene

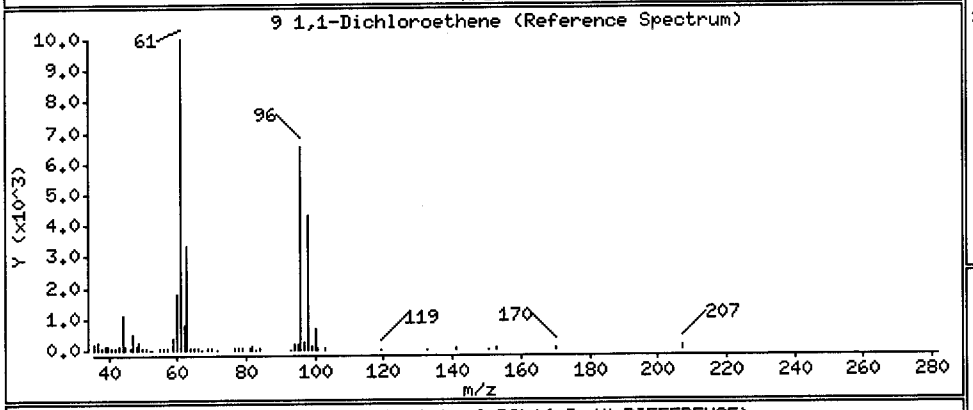
Concentration: 0.1220 UG/L

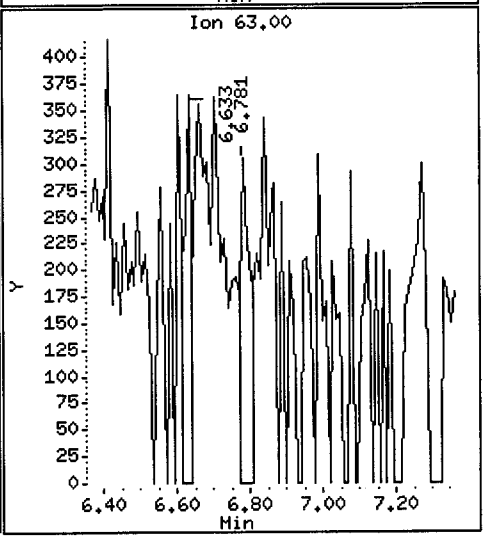


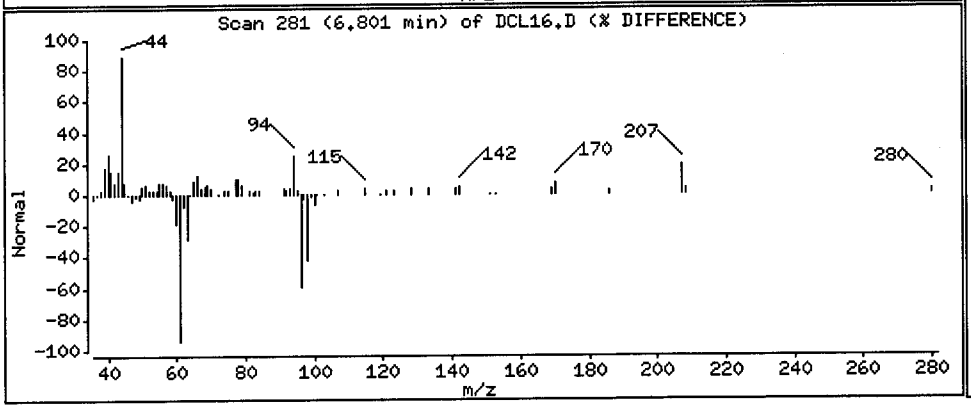












[Acetone; 140 J; MI; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

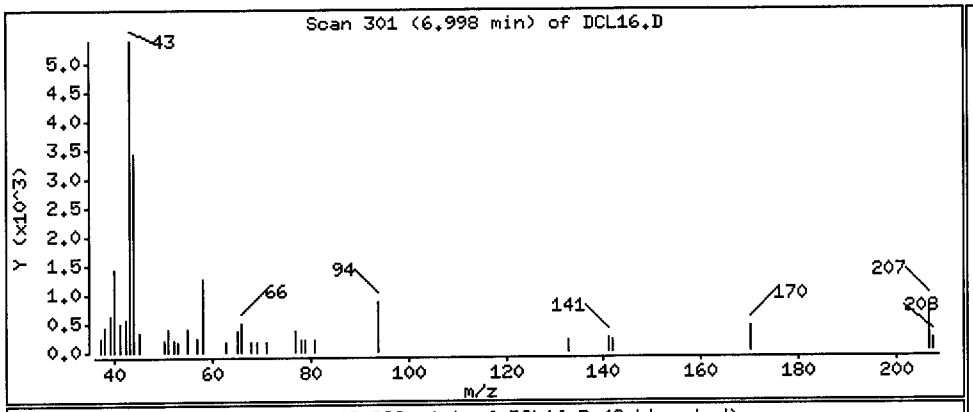
Operator: VOC

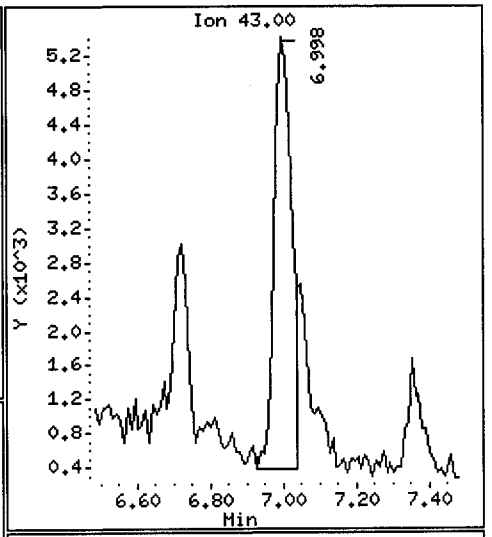
Column phase: RTx Volatiles

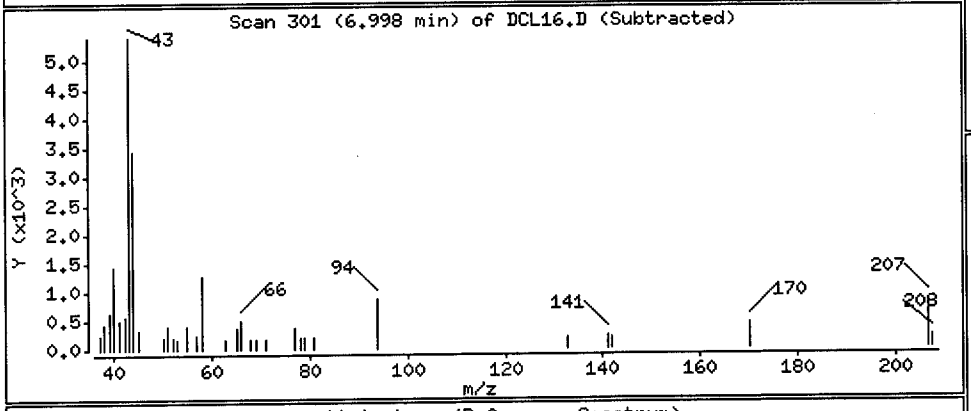
Column diameter: 0.32

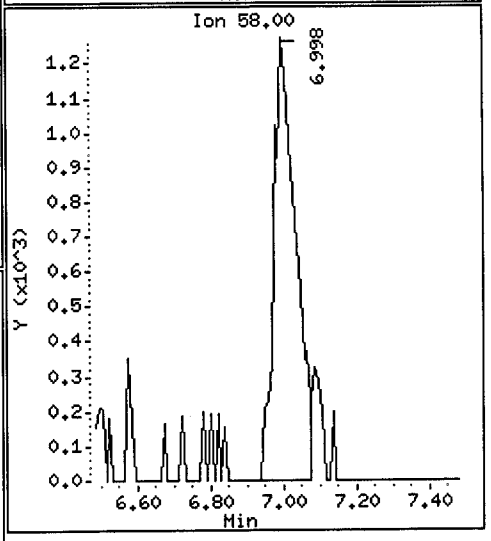
10 Acetone

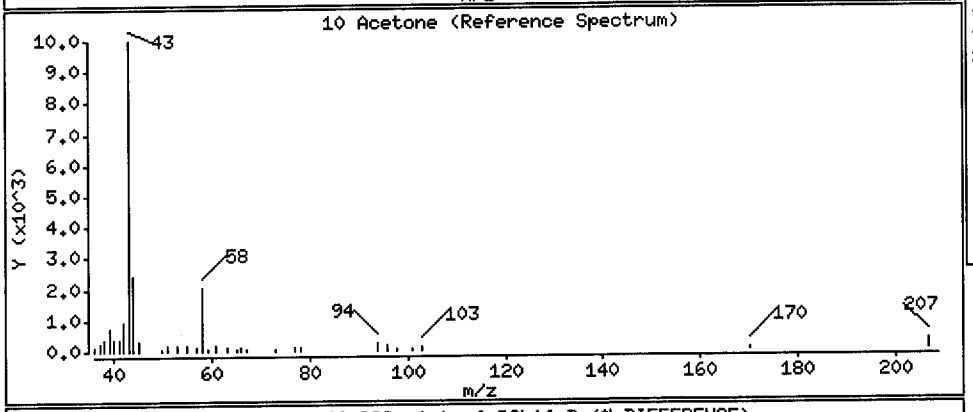
Concentration: 5.4532 UG/L

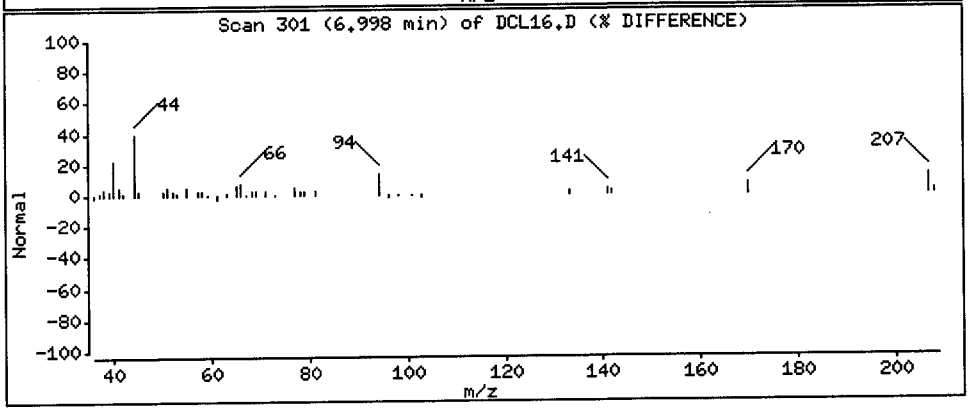












[Acetone; before version]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

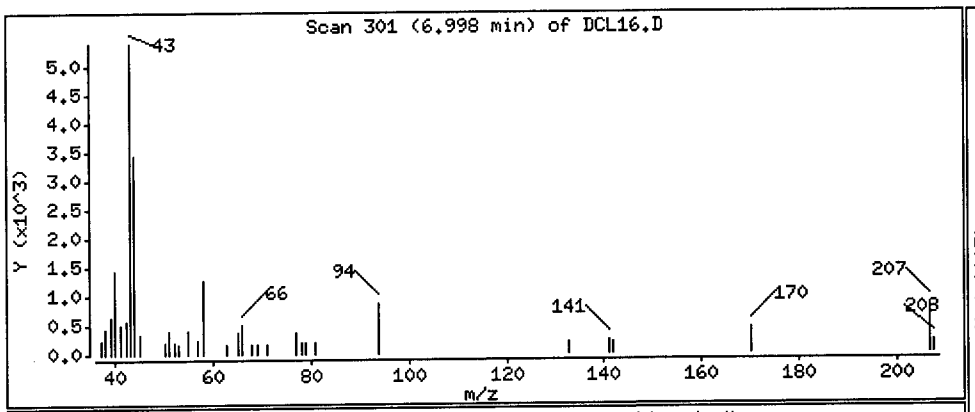
Operator: VOC

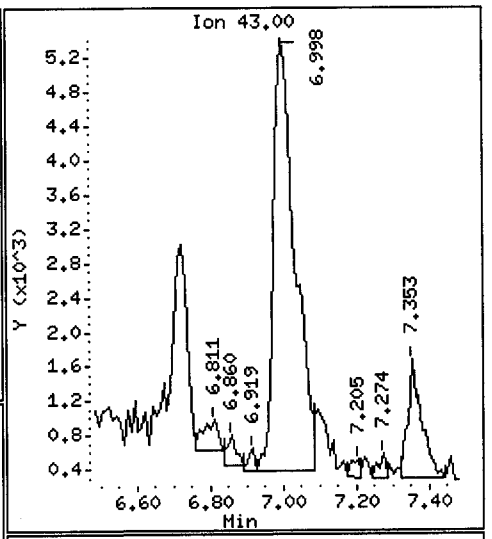
Column phase: RTx Volatiles

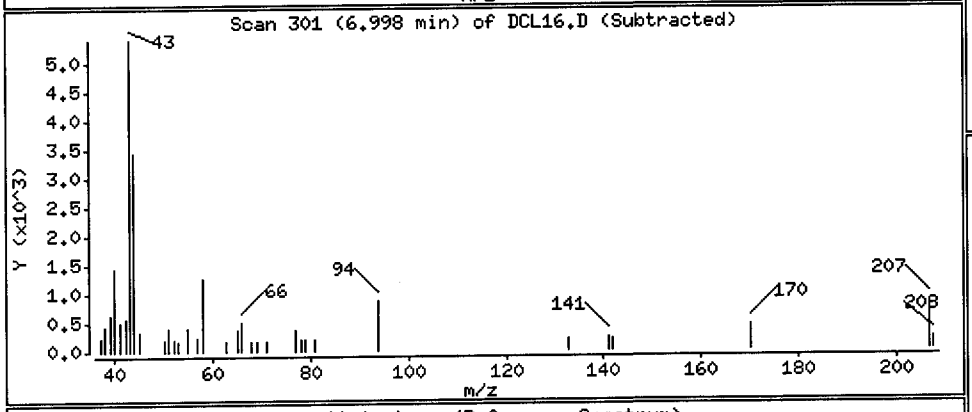
Column diameter: 0.32

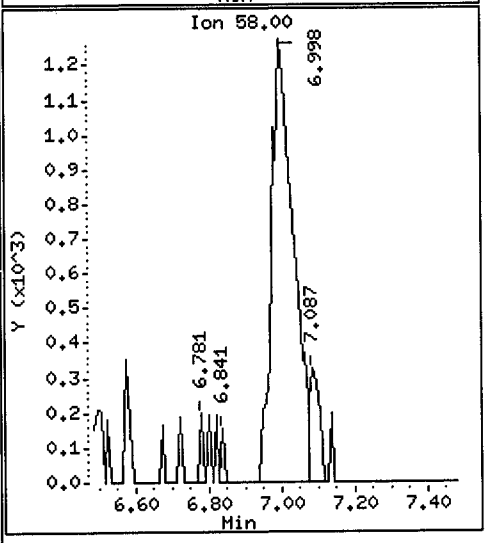
10 Acetone

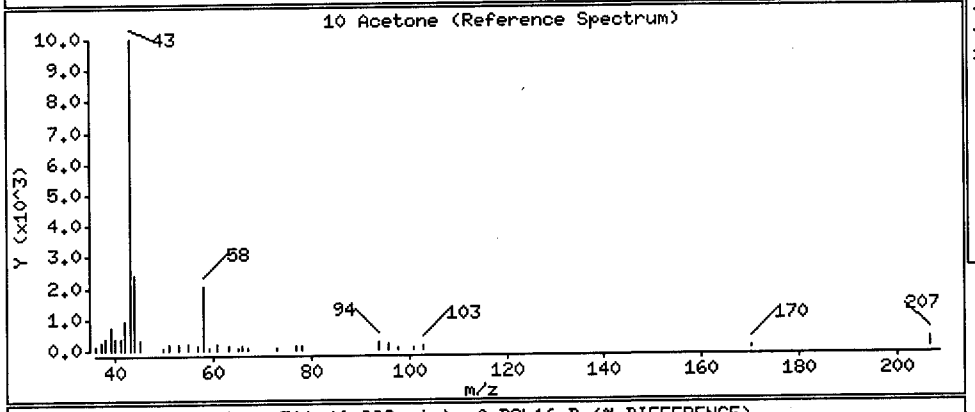
Concentration: 6.6846 UG/L

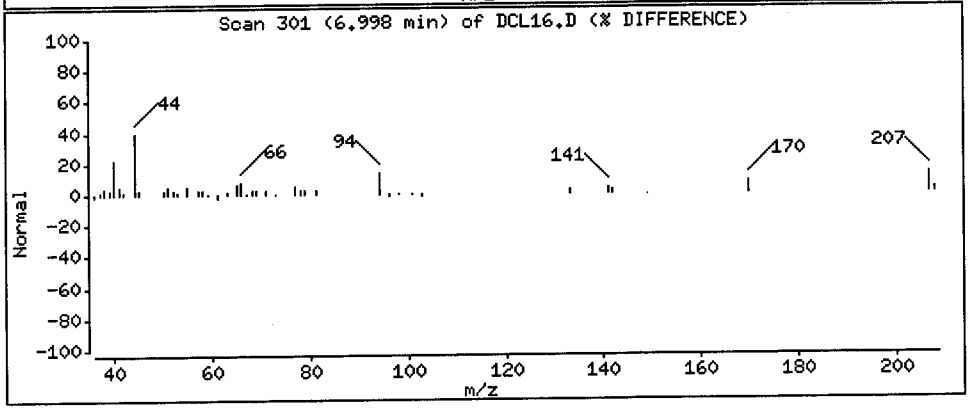












[2-Butanone; 60 J]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

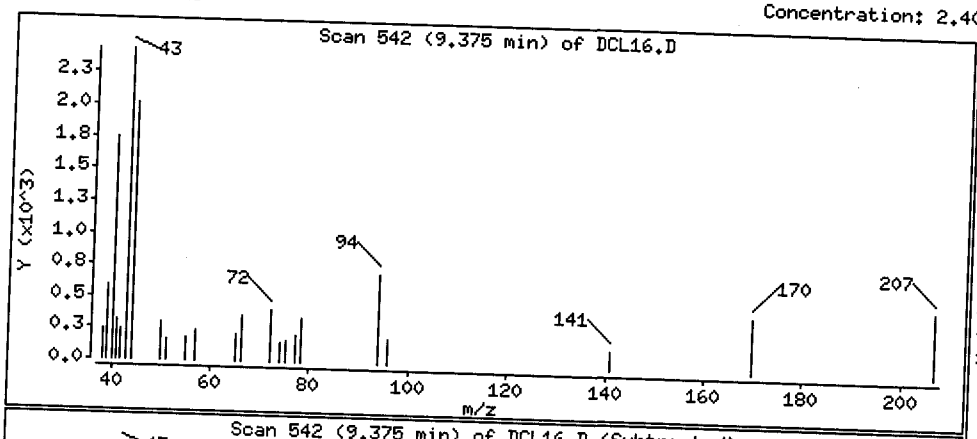
Operator: VOC

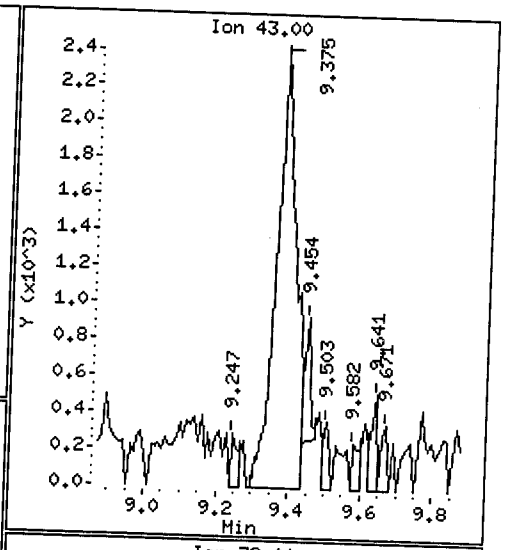
Column phase: RTx Volatiles

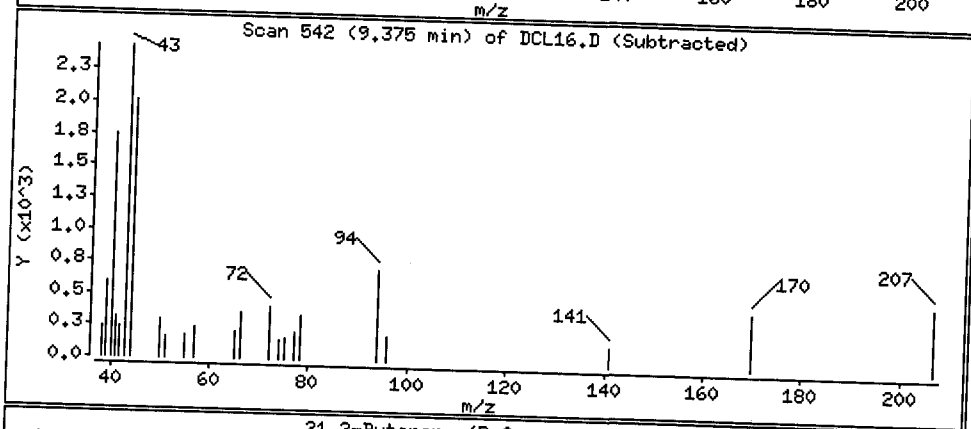
Column diameter: 0.32

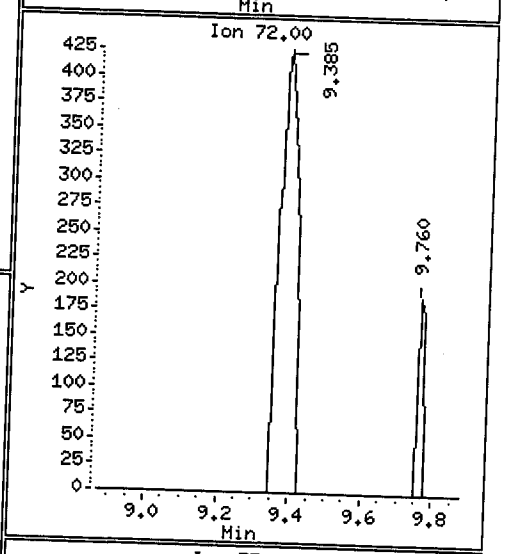
21 2-Butanone

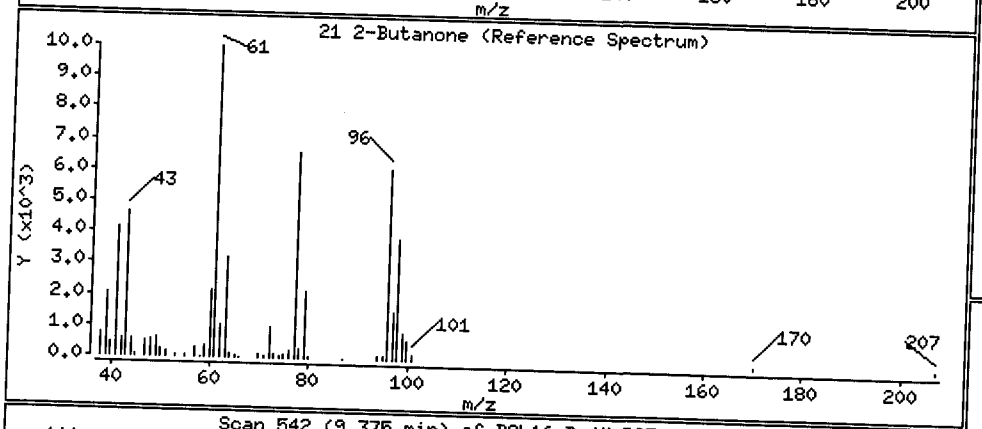
Concentration: 2.4015 UG/L

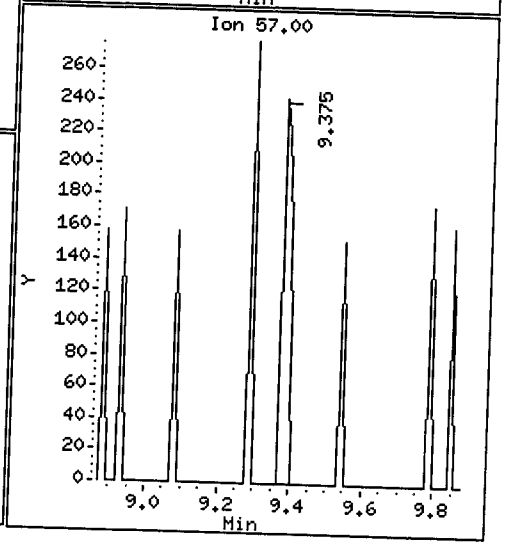


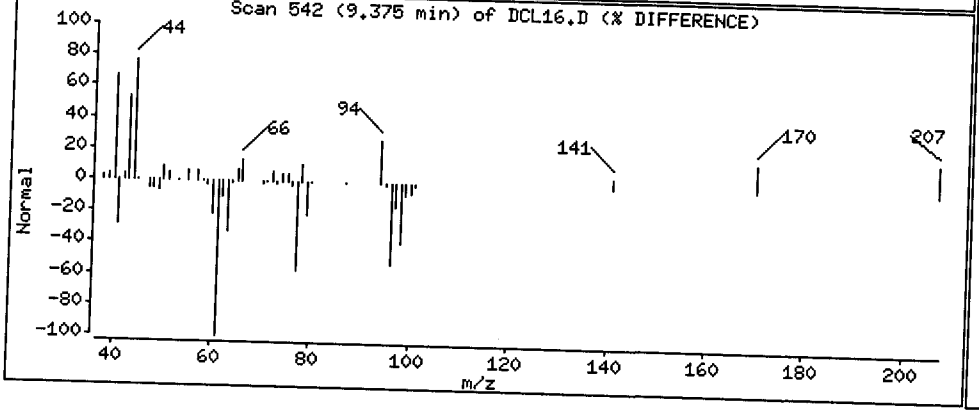












[Carbon Tetrachloride; 190; FP]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

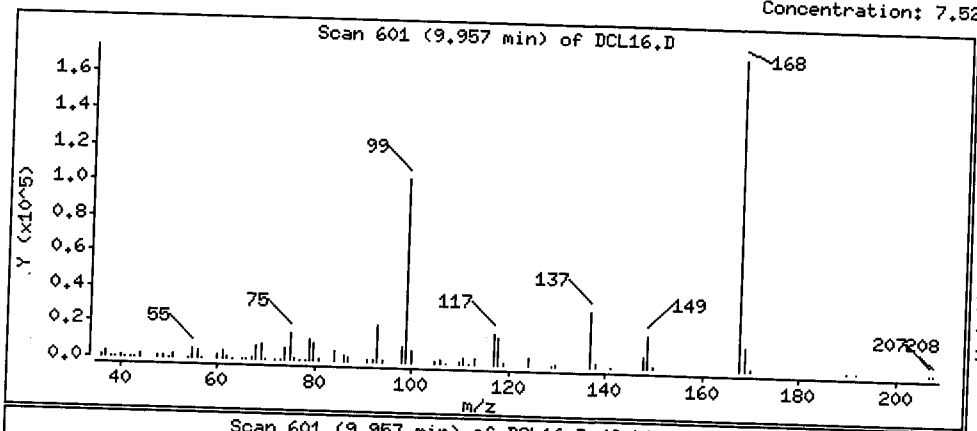
Operator: VOC

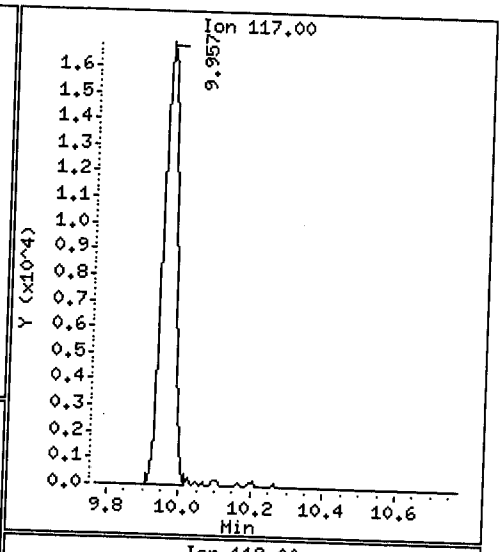
Column phase: RTx Volatiles

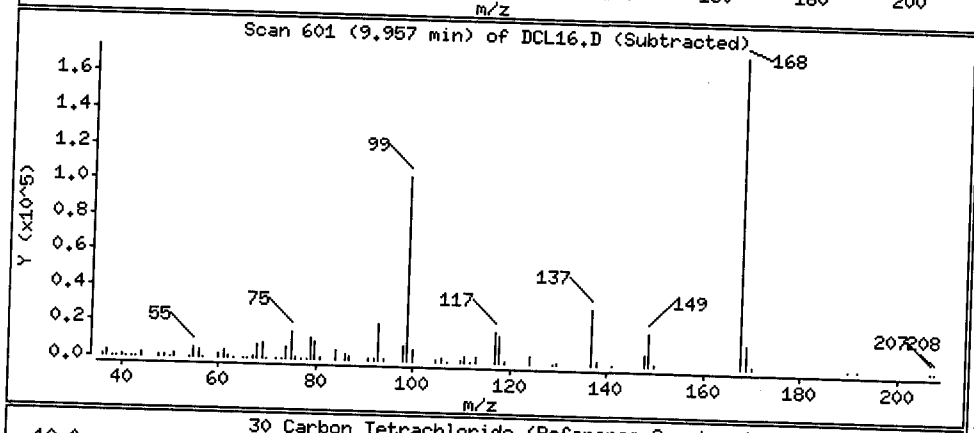
Column diameter: 0.32

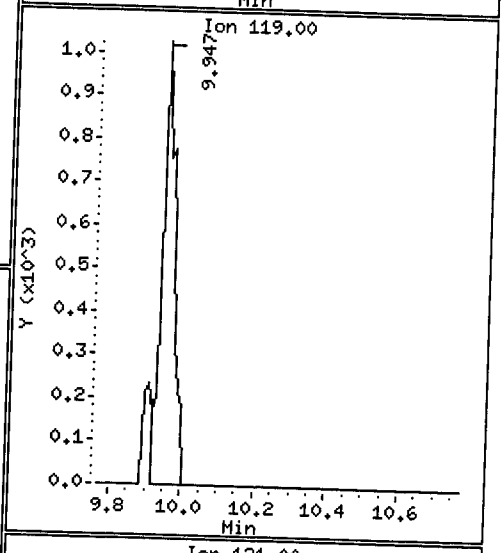
30 Carbon Tetrachloride

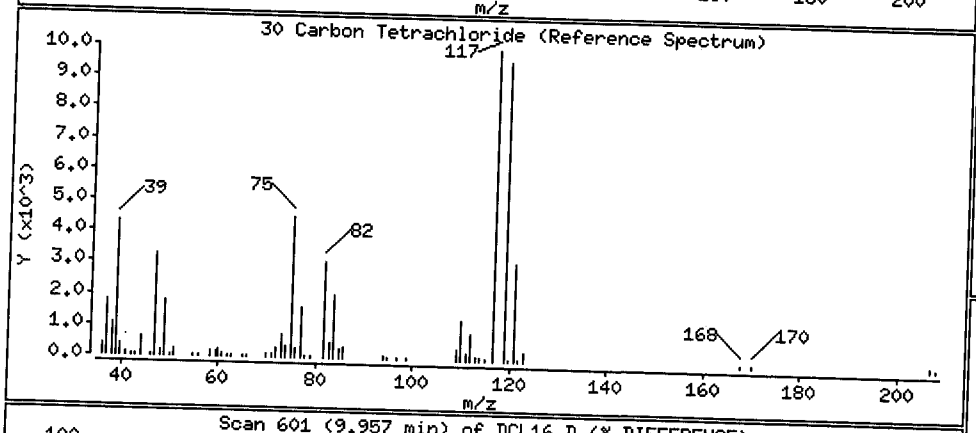
Concentration: 7.5244 UG/L

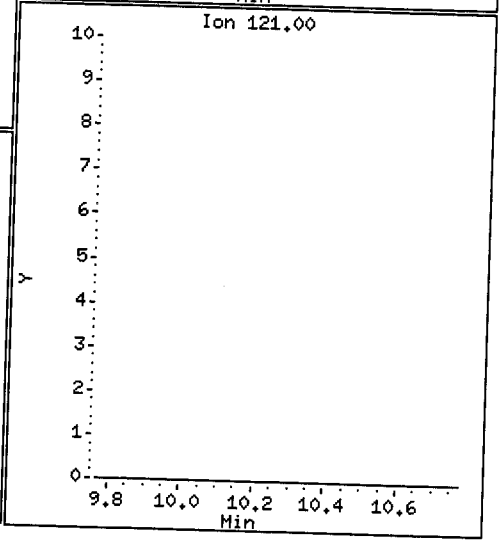


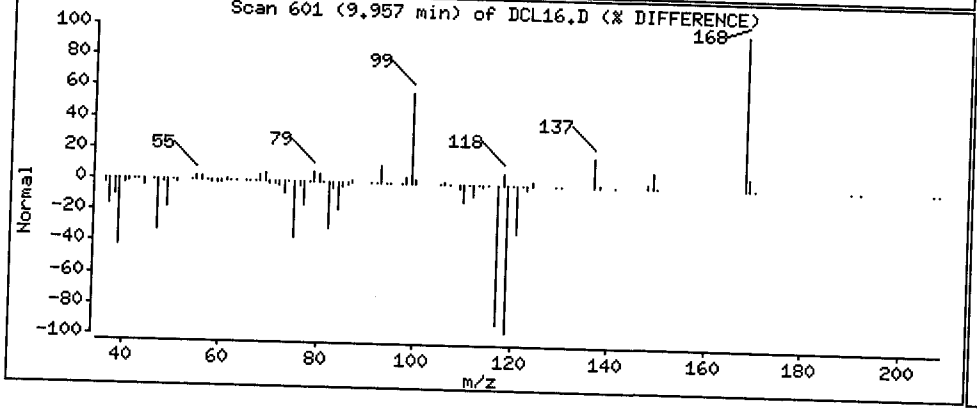












[1,1-Dichloropropene; 130; FP]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

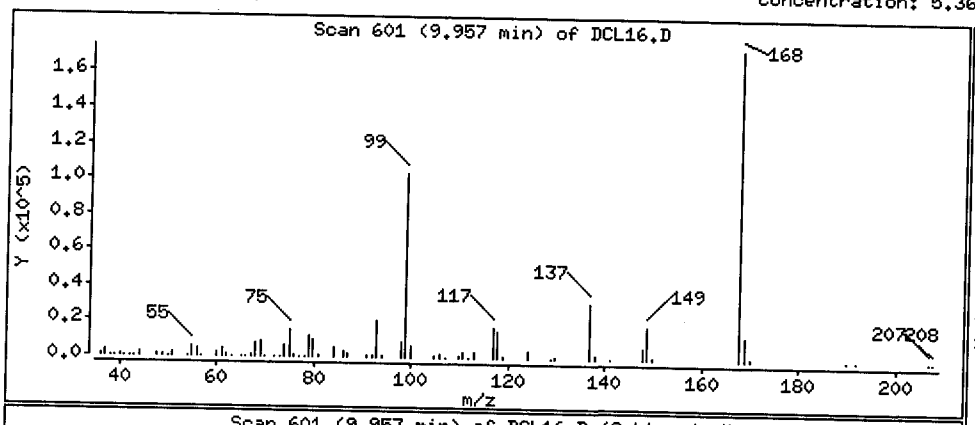
Operator: VOC

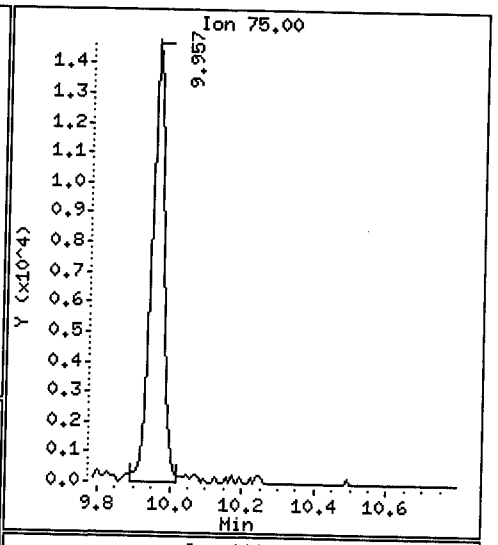
Column phase: RTx Volatiles

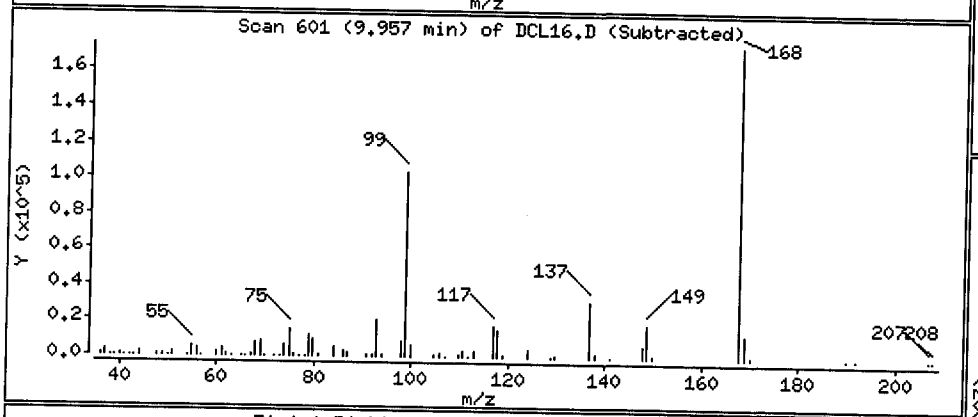
Column diameter: 0.32

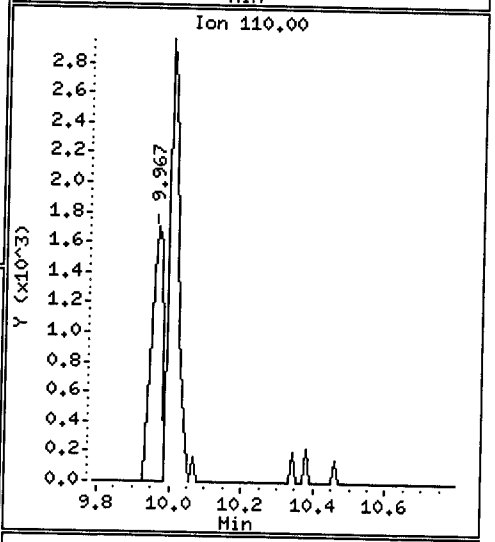
31 1,1-Dichloropropene

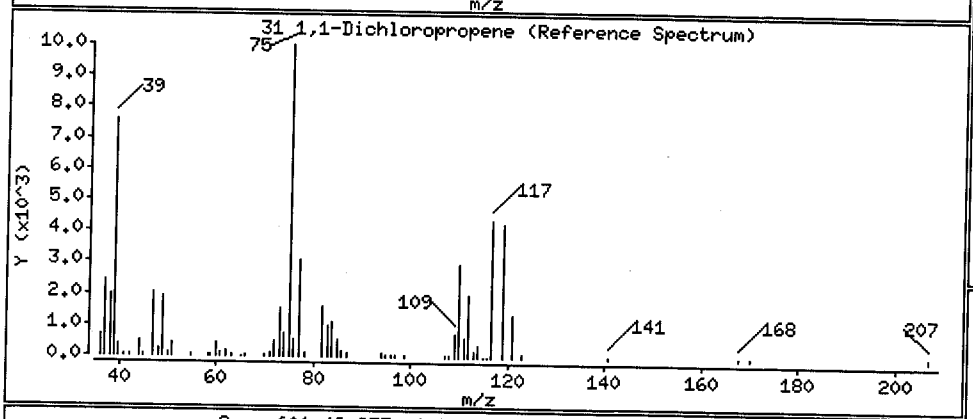
Concentration: 5.3681 UG/L

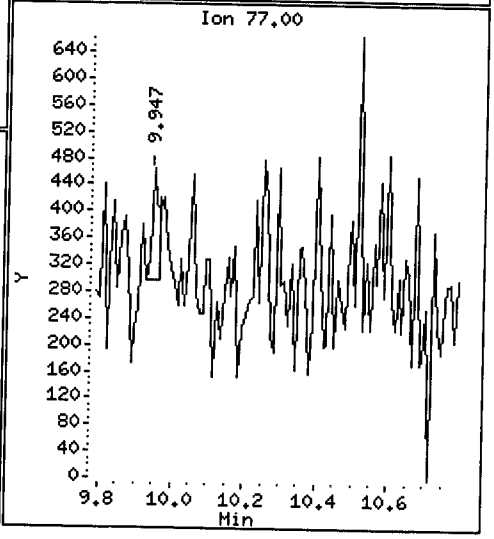


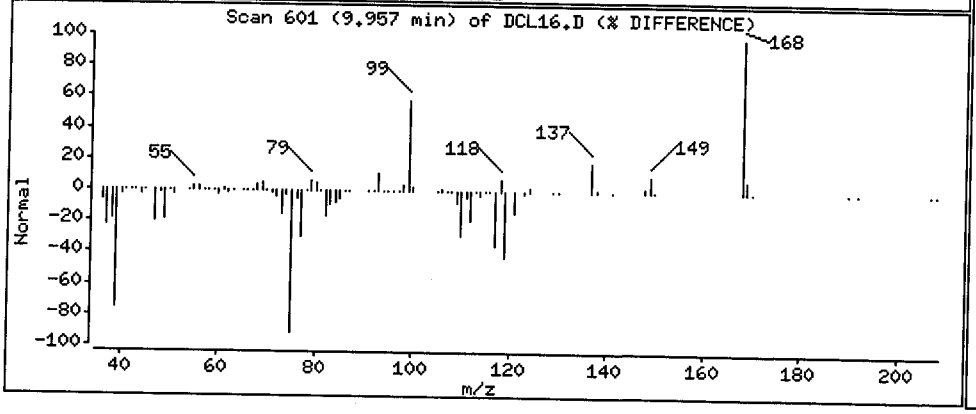












[Dibromomethane; 7.2 J; FP]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

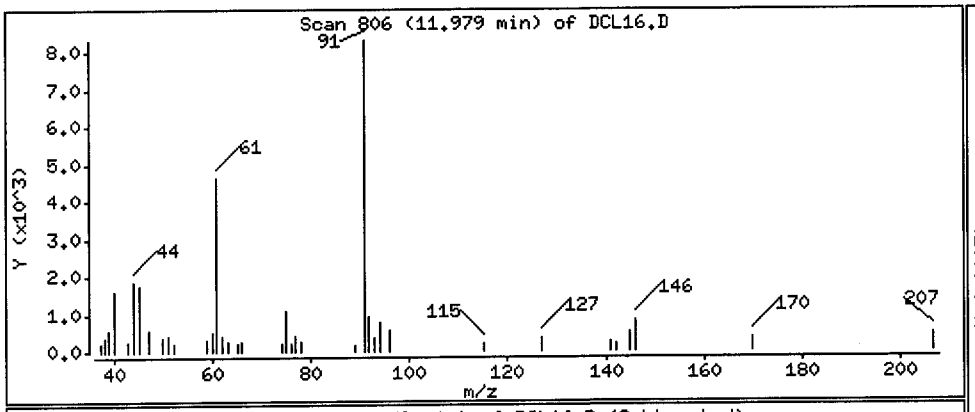
Operator: VOC

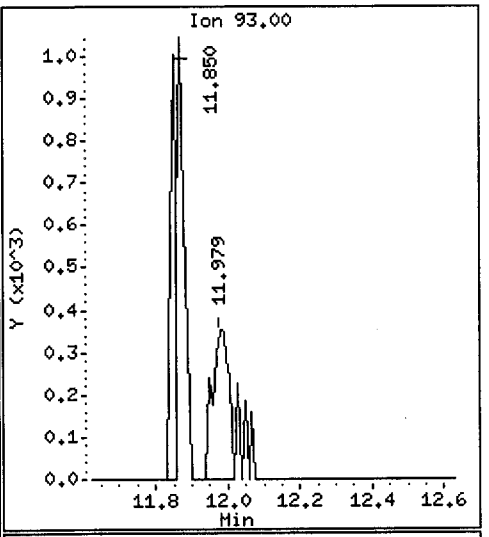
Column phase: RTx Volatiles

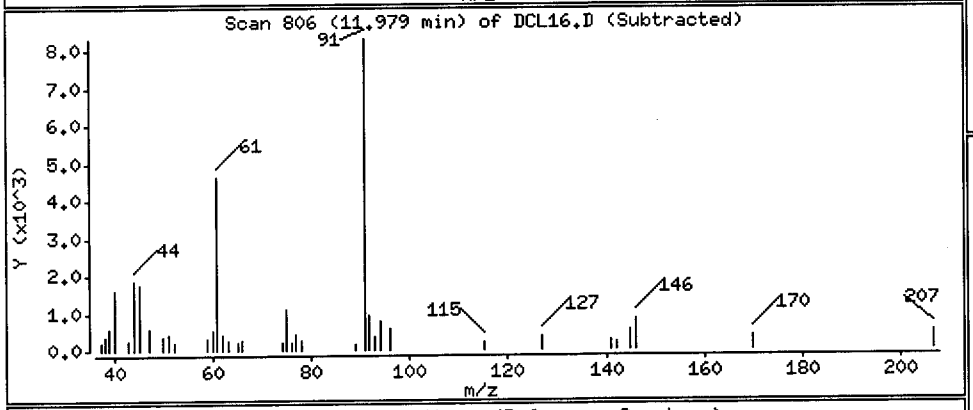
Column diameter: 0.32

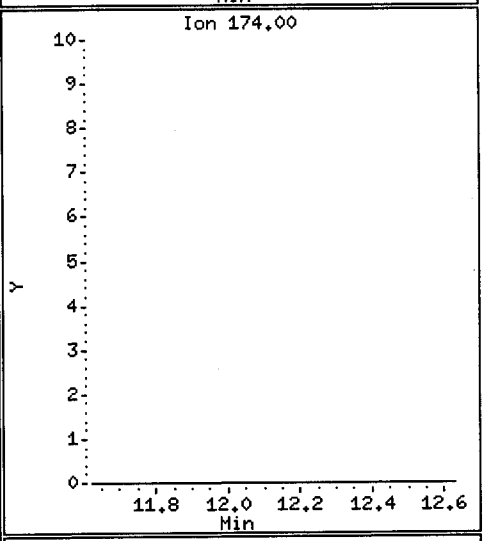
40 Dibromomethane

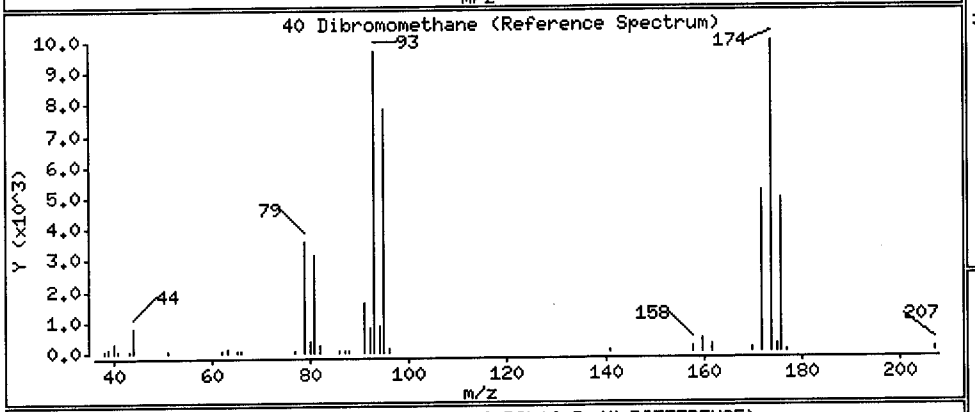
Concentration: 0.2897 UG/L

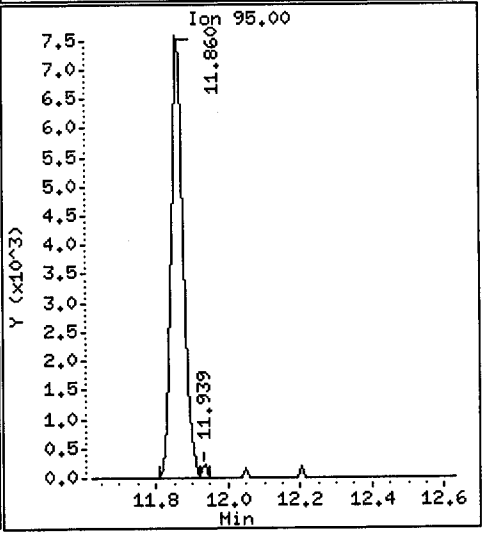


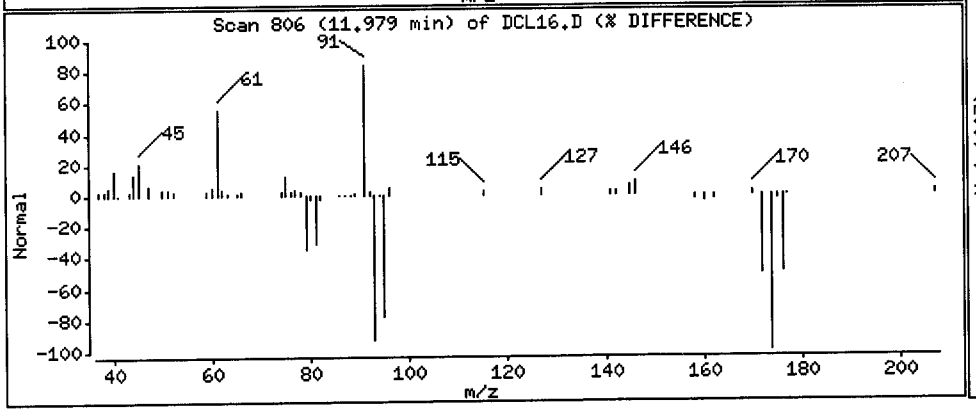












[trans-1,3-Dichloropropene; 2.6 J; FP]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

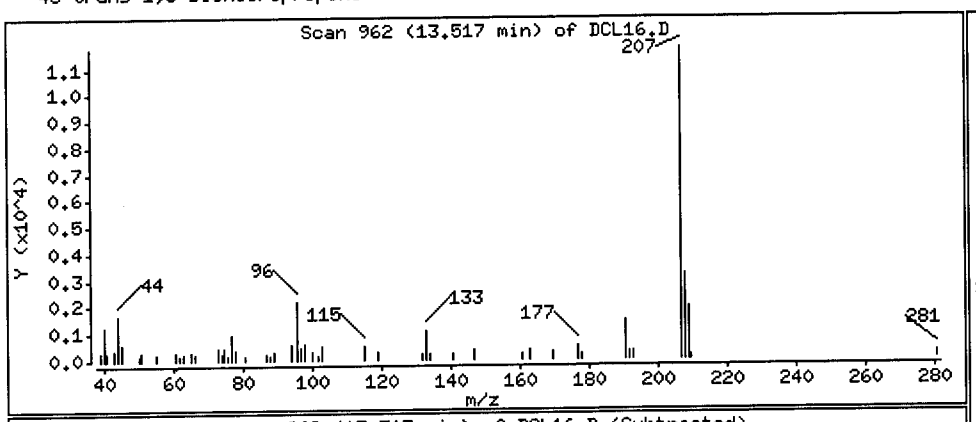
Operator: VOC

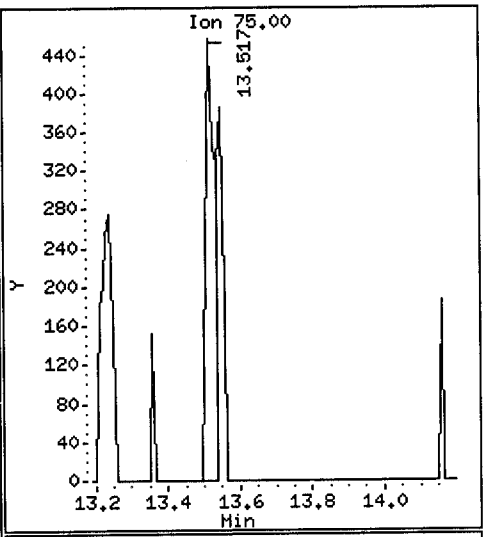
Column phase: RTx Volatiles

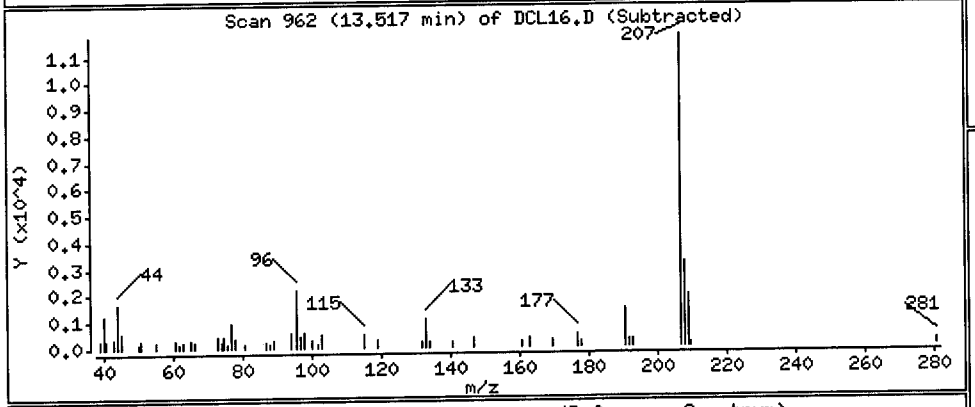
Column diameter: 0.32

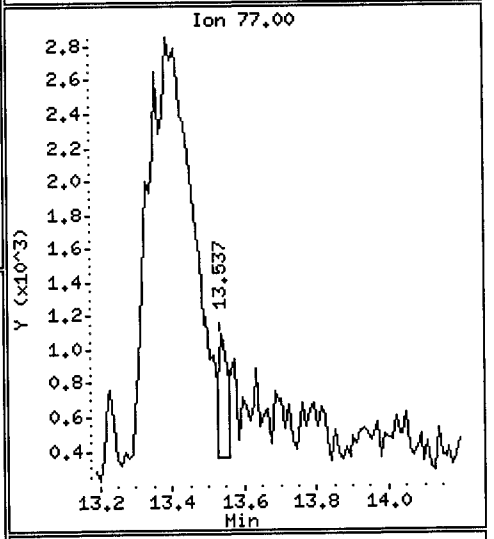
48 trans-1,3-Dichloropropene

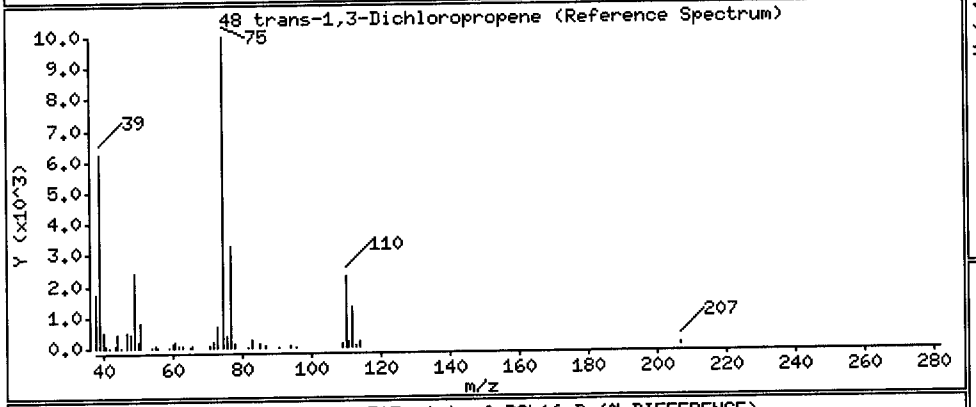
Concentration: 0.1045 UG/L

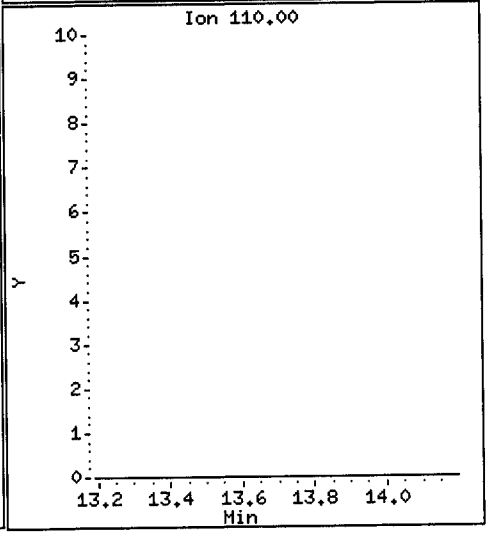


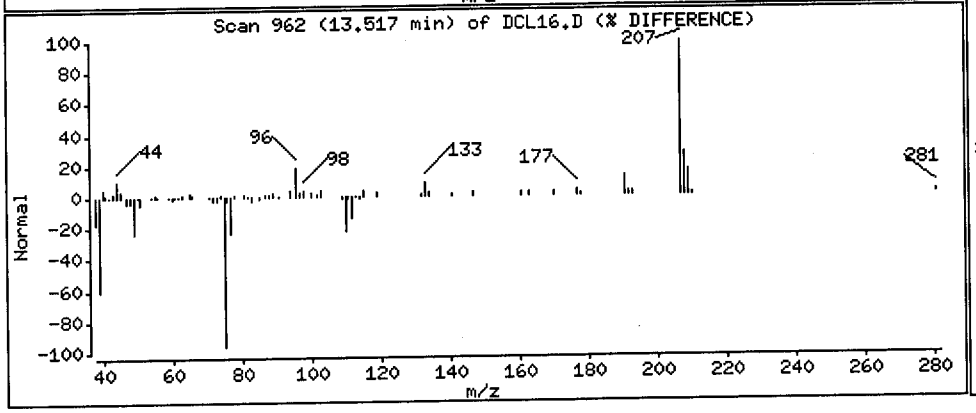












[1,1,2-Trichloroethane; 2.6 J]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

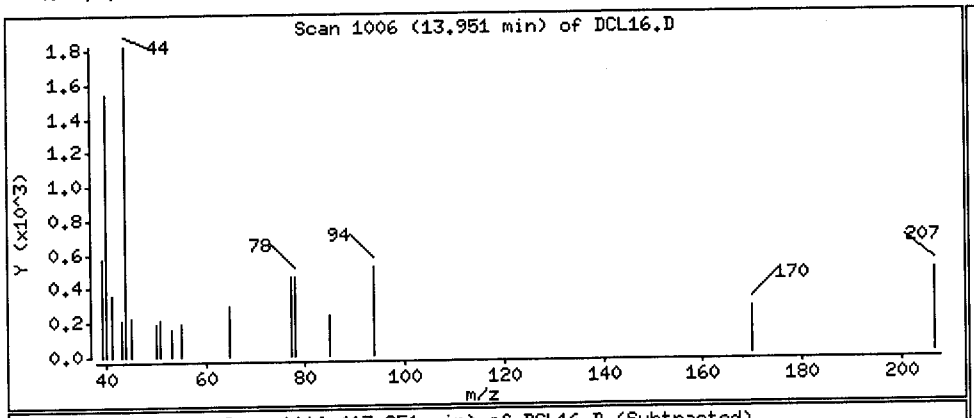
Operator: VOC

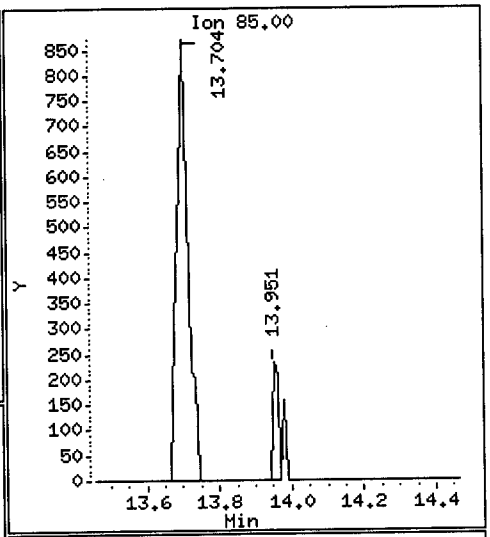
Column phase: RTx Volatiles

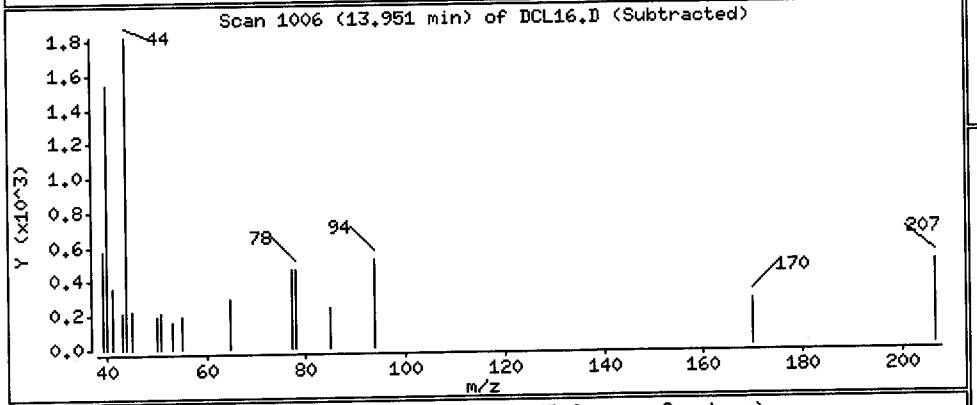
Column diameter: 0.32

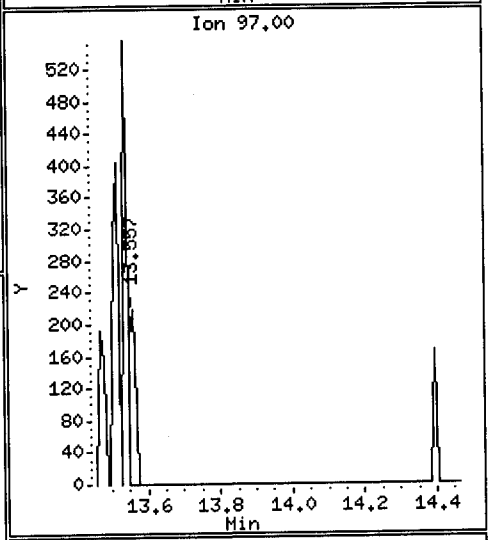
49 1,1,2-Trichloroethane

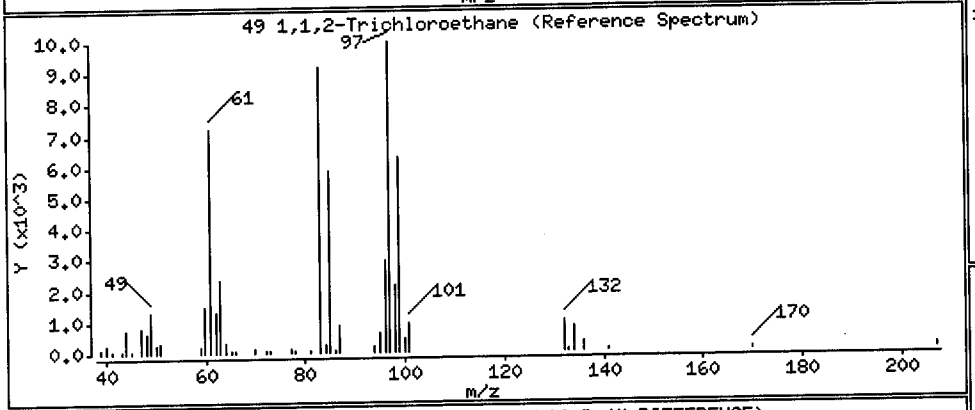
Concentration: 0.1043 UG/L

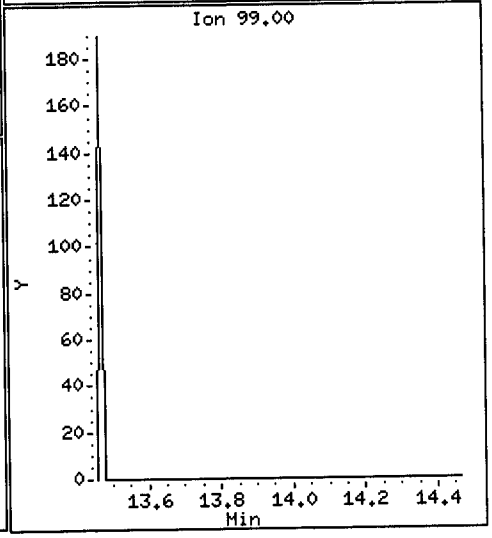


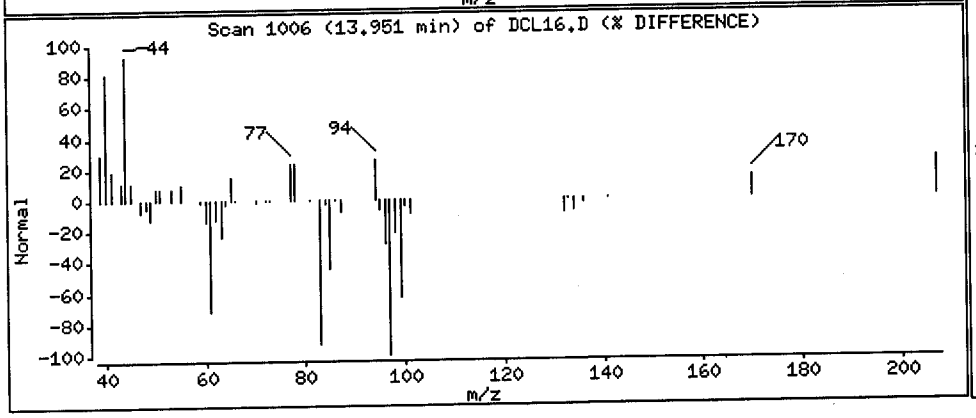












[1,2,3-Trichloropropane; 590; FP]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL16.D

Date : 21-MAR-2008 16:08

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-007,136236,

Purge Volume: 5.0

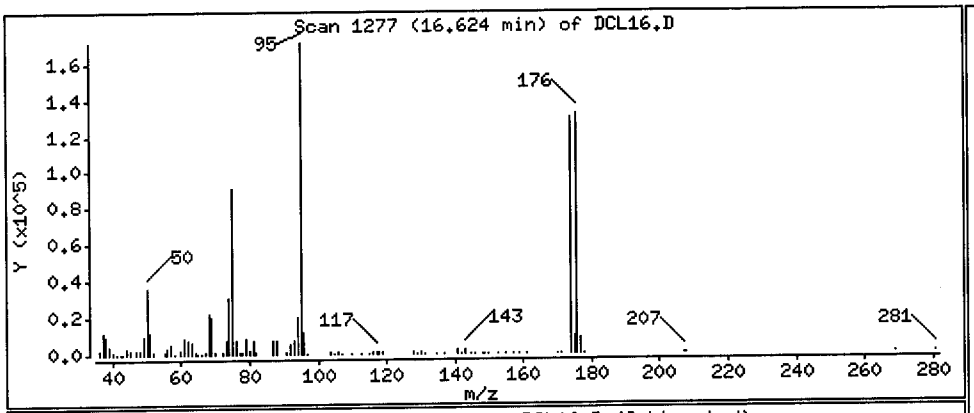
Operator: VOC

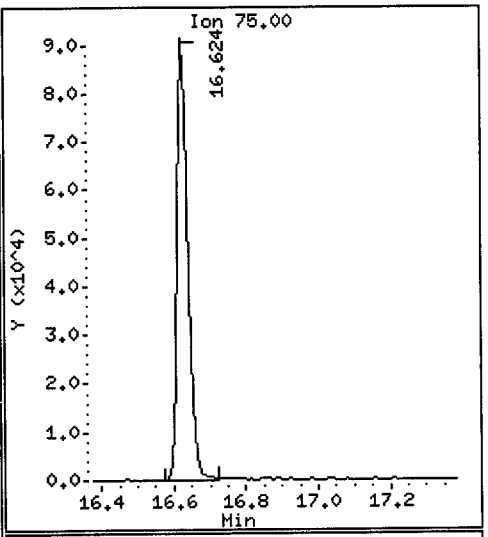
Column phase: RTx Volatiles

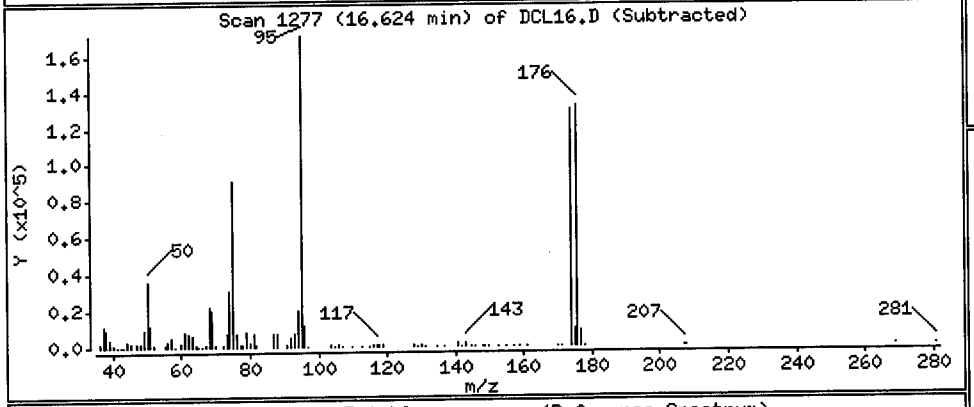
Column diameter: 0.32

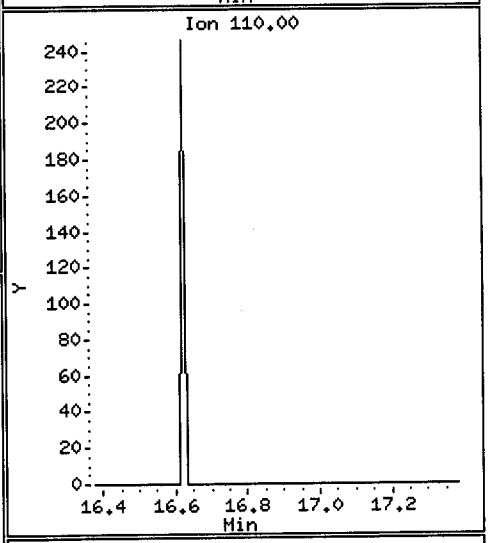
69 1,2,3-Trichloropropane

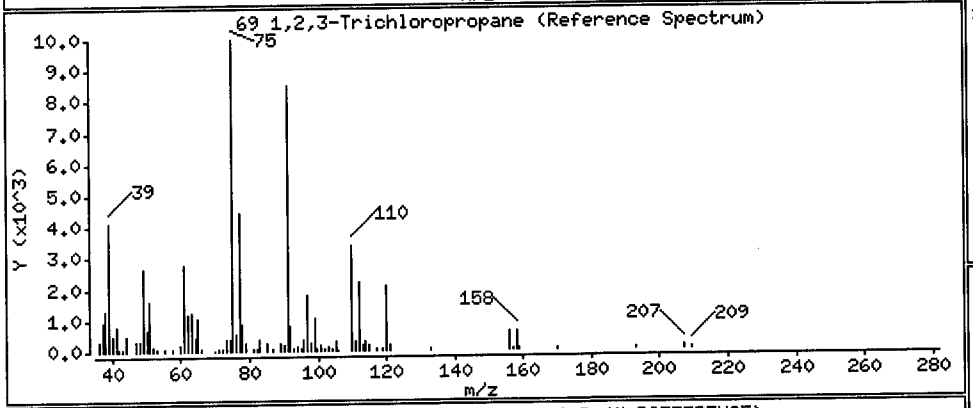
Concentration: 23.5895 UG/L

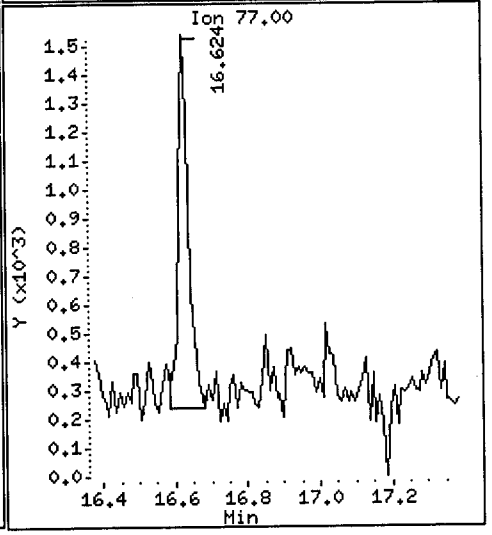


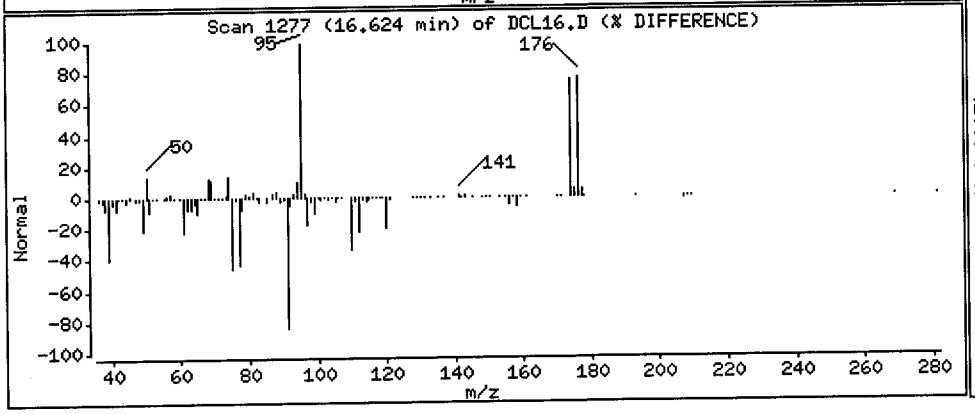












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst : MSVOA04
Seqnum : 438117134014
File : dcl14
Cal : 438107113004
IDF : 83.33

Lab ID : 202043-008 (M)
Matrix : Soil
Batch : 136236
Caldate : 14-MAR-2008

Client ID : 1065EX313[4.5]
Acct : MACTEC (AMP)
Time : 21-MAR-2008 15:01
Caltype : SOIL
Units : ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	ND		830		c- u v-
Chloromethane	ND		830		u
Vinyl Chloride	ND		830		u
Bromomethane	ND		830		u
Chloroethane	ND		830		u
Trichlorofluoromethane	ND		420		u
Acetone	160 J		1700		u
Freon 113	ND		420		u
1,1-Dichloroethene	12 J	0.132	420		u x
Methylene Chloride	410 J		1700	590	c+ m u **b***
Carbon Disulfide	ND		420		u
MTBE	ND		420		u
trans-1,2-Dichloroethene	ND		420		u
Vinyl Acetate	ND		4200		u
1,1-Dichloroethane	ND		420		u
2-Butanone	ND		830		u
cis-1,2-Dichloroethene	ND		420		u
2,2-Dichloropropane	ND		420		u
Chloroform	ND		420		u
Bromochloromethane	ND		420		u
1,1,1-Trichloroethane	ND		420		u
1,1-Dichloropropene	420	-0.292	420		u x
Carbon Tetrachloride	610	-0.272	420		u x
1,2-Dichloroethane	ND		420		u
Benzene	ND		420		u
Trichloroethene	13 J	0.182	420		u x
1,2-Dichloropropane	80 J		420		l u x
Bromodichloromethane	76 J		420		l u x
Dibromomethane	16 J	-0.222	420		u x
4-Methyl-2-Pentanone	ND		830		u
cis-1,3-Dichloropropene	ND		420		u
Toluene	ND		420		u
trans-1,3-Dichloropropene	ND		420		u
1,1,2-Trichloroethane	16 J	0.064	420		u x
2-Hexanone	ND		830		u
1,3-Dichloropropane	ND		420		u
Tetrachloroethene	ND		420		u
Dibromochloromethane	ND		420		u
1,2-Dibromoethane	ND		420		u
Chlorobenzene	31 J		420		l u x
1,1,1,2-Tetrachloroethane	ND		420		u
Ethylbenzene	16 J	0.153	420		u x
m,p-Xylenes	ND		420		u
o-Xylene	11 J	0.409	420		u x
Styrene	ND		420		u
Bromoform	ND		420		u
Isopropylbenzene	52 J		420		u
1,1,2,2-Tetrachloroethane	330 J		420		l u x
1,2,3-Trichloropropane	ND		420		u

438117134014

00288

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	110 J		420		m u
Bromobenzene	83 J	0.399	420		u x
1,3,5-Trimethylbenzene	9.8 J		420		u
2-Chlorotoluene	11 J		420		l u x
4-Chlorotoluene	22 J		420		l u x
tert-Butylbenzene	9.5 J		420	60	l u x
1,2,4-Trimethylbenzene	24 J		420	48	u
sec-Butylbenzene	120 J		420	55	u
para-Isopropyl Toluene	140 J		420	57	u
1,3-Dichlorobenzene	ND		420		u
1,4-Dichlorobenzene	ND		420		u
n-Butylbenzene	210 J		420	46	u
1,2-Dichlorobenzene	ND		420		u
1,2-Dibromo-3-Chloropropane	39 J		420		l u x
1,2,4-Trichlorobenzene	10 J	0.339	420		u x
Hexachlorobutadiene	ND		420		c- u
Naphthalene	69 J		420	82	u
1,2,3-Trichlorobenzene	8.4 J		420		l u x

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	4167	4372	105	78-126	u
1,2-Dichloroethane-d4	4167	4207	101	76-137	u
Toluene-d8	4167	4206	101	80-120	u
Bromofluorobenzene	4167	4340	104	80-121	u
Trifluorotoluene	1250	1199	96	52-145	u

ISTD (ICAL dce12)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	402255	493078	22.58	10.00	9.97	-0.03
1,4-Difluorobenzene	600047	694564	15.75	11.12	11.10	-0.02
Chlorobenzene-d5	504409	623350	23.58	15.22	15.21	-0.01
1,4-Dichlorobenzene-d4	272365	364970	34.00	17.95	17.94	-0.01

BO 03/21/08 : High HC

BO 03/21/08 [1,2-Dichloropropane]: Spectrum does not confirm.

BO 03/21/08 [Bromodichloromethane]: Spectrum does not confirm.

BO 03/21/08 [Chlorobenzene]: Spectrum does not confirm.

BO 03/21/08 [1,1,2,2-Tetrachloroethane]: Spectrum does not confirm.

BO 03/21/08 [2-Chlorotoluene]: Spectrum does not confirm.

BO 03/21/08 [4-Chlorotoluene]: Spectrum does not confirm.

BO 03/21/08 [tert-Butylbenzene]: Spectrum does not confirm.

BO 03/21/08 [1,2-Dibromo-3-Chloropropane]: Spectrum does not confirm.

BO 03/21/08 [1,2,3-Trichlorobenzene]: Spectrum does not confirm.

BO 03/21/08 : See file ecl11 for methanol prep blank.

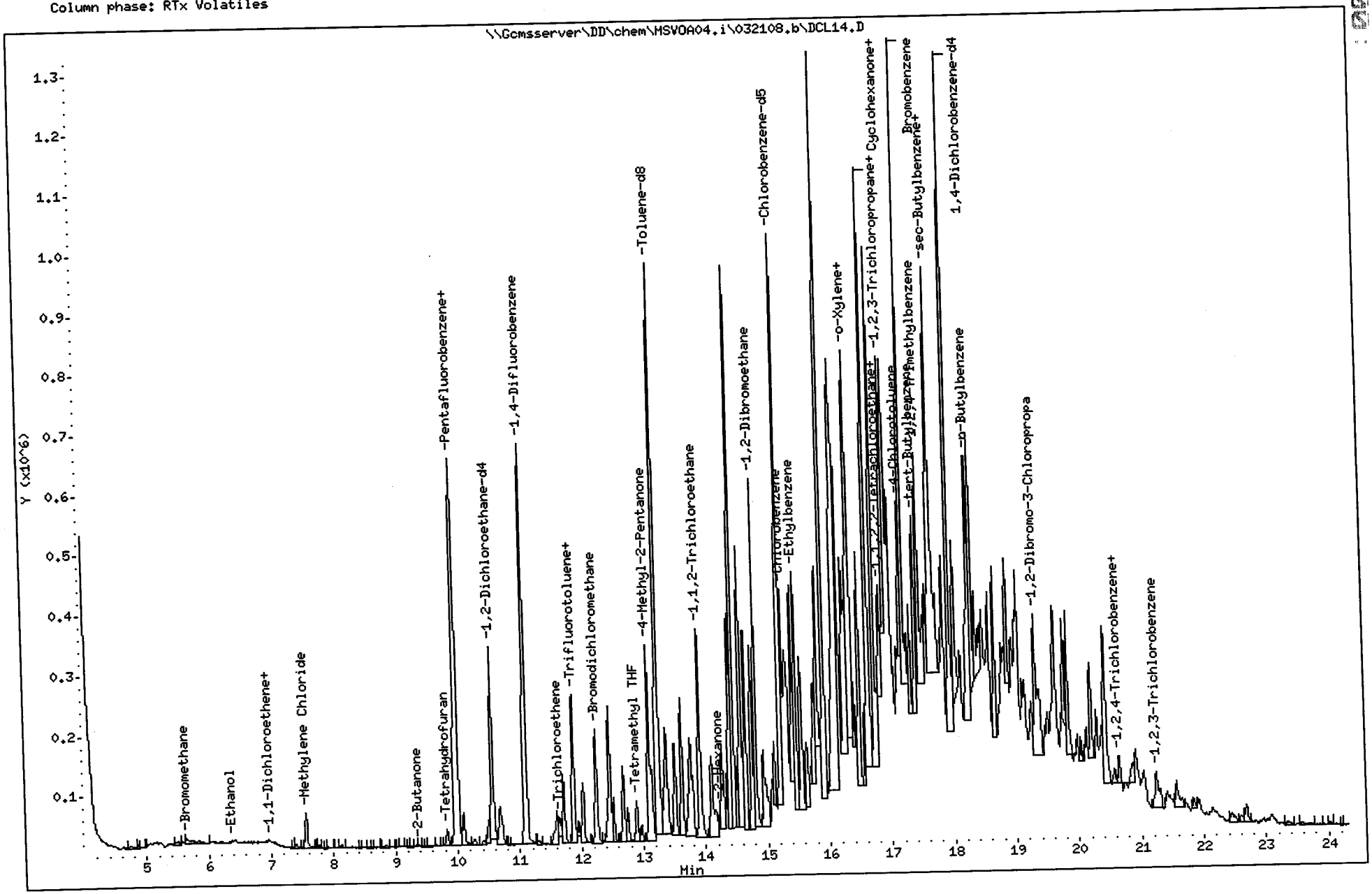
ACM 03/31/08 : MJD changed samples ID in LIMS

(not in upper half)

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D
Date : 21-MAR-2008 15:01
Client ID: DYNA P&T
Sample Info: S,202043-003,136236,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i

Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D
Report Date: 21-Mar-2008 15:26

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D
Lab Smp Id:
Inj Date : 21-MAR-2008 15:01
Operator : VOC
Smp Info : S,202043-003,136236,
Misc Info : 0.06/5,S8493,1000:0.06/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\826GOX4S.m
Meth Date : 21-Mar-2008 14:22 msvoa04
Cal Date : 14-MAR-2008 18:54
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA06

Client Smp ID: DYNA P&T
MS Autotune Date: 12-MAR-2008 09:04
Inst ID: MSVOA04.i

Quant Type: ISTD
Cal File: DCE15.D

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	4 Bromomethane	94	5.640	5.561	(0.566)	3862	0.36867	0.3686
	7 Ethanol	45	6.380	6.350	(0.640)	4922	39.1286	39.1286
	9 1,1-Dichloroethene	96	6.972	6.863	(0.699)	898	0.14592	0.1459
	10 Acetone	43	6.972	6.981	(0.699)	6990	1.96559	1.9655
	11 Isopropanol	45	7.070	7.070	(0.709)	571	0.73887	0.7388
	13 Methylene Chloride	84	7.564	7.602	(0.759)	37156	4.90014	4.9001 (M)
	21 2-Butanone	43	9.358	9.376	(0.939)	3832	0.89610	0.8960
	25 Tetrahydrofuran	42	9.743	9.761	(0.977)	825	0.34162	0.3416
*	27 Pentafluorobenzene	168	9.970	10.007	(1.000)	493078	50.0000	
	28 Dibromofluoromethane	113	10.009	10.037	(1.004)	294435	52.4617	52.4617
	30 Carbon Tetrachloride	117	9.970	10.273	(0.899)	49251	7.26962	7.2696
	31 1,1-Dichloropropene	75	9.970	10.293	(0.899)	41799	5.06778	5.0677
	32 1,2-Dichloroethane-d4	65	10.562	10.589	(0.952)	309972	50.4828	50.4827
*	36 1,4-Difluorobenzene	114	11.094	11.121	(1.000)	694564	50.0000	
	37 Trichloroethene	95	11.666	11.515	(1.052)	931	0.15191	0.1519
	38 Trifluorotoluene	146	11.873	11.900	(1.070)	137643	14.3936	14.3935
	39 1,2-Dichloropropane	63	11.863	11.929	(1.069)	6135	0.95983	0.9598
	40 Dibromomethane	93	11.873	12.127	(1.070)	888	0.19031	0.1903
	41 Bromodichloromethane	83	12.248	12.284	(1.104)	8313	0.91648	0.9164
	43 Tetramethyl THF	43	12.899	12.876	(1.163)	8635	0.56642	0.5664
	45 4-Methyl-2-Pentanone	43	13.086	13.073	(1.180)	15319	1.79752	1.7975
	46 Toluene-d8	98	13.234	13.260	(1.193)	728850	50.4680	50.4680

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D
Report Date: 21-Mar-2008 15:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	49 1,1,2-Trichloroethane	85	13.994	13.960	(1.261)	551	0.18614	0.1861
	51 2-Hexanone	43	14.220	14.207	(0.935)	3752	0.57964	0.5796
	54 1,2-Dibromoethane	107	14.822	14.690	(1.336)	685	0.11902	0.1190
*	55 Chlorobenzene-d5	117	15.207	15.222	(1.000)	623350	50.0000	
	56 Chlorobenzene	112	15.256	15.261	(1.003)	5149	0.36705	0.3670
	57 Ethylbenzene	91	15.453	15.321	(1.016)	4778	0.19377	0.1937
	60 o-Xylene	106	16.360	15.971	(1.076)	1213	0.13004	0.1300
	63 Isopropylbenzene	105	16.360	16.375	(0.912)	15844	0.62508	0.6250
	64 Cyclohexanone	55	16.617	16.612	(0.926)	8775	5.71045	5.7104
	65 Bromofluorobenzene	95	16.627	16.642	(0.927)	357262	52.0740	52.0739
	66 1,1,2,2-Tetrachloroethane	83	16.814	16.789	(0.937)	33387	3.96338	3.9633
	67 Bromobenzene	156	17.218	16.839	(0.960)	7387	1.00081	1.0008
	68 Propylbenzene	91	16.844	16.849	(0.939)	41688	1.33732	1.3373 (M)
	69 1,2,3-Trichloropropane	75	16.923	16.878	(0.943)	758	0.10461	0.1046
	70 2-Chlorotoluene	91	16.962	17.026	(0.946)	2748	0.13083	0.1308
	71 1,3,5-Trimethylbenzene	105	17.031	17.036	(0.949)	2412	0.11797	0.1179
	72 4-Chlorotoluene	91	17.169	17.144	(0.957)	5329	0.26863	0.2686
	73 tert-Butylbenzene	119	17.396	17.411	(0.970)	2076	0.11429	0.1142
	74 1,2,4-Trimethylbenzene	105	17.465	17.470	(0.974)	5933	0.28406	0.2840
	75 sec-Butylbenzene	105	17.642	17.657	(0.984)	40111	1.45758	1.4575
	76 para-Isopropyl Toluene	119	17.780	17.795	(0.991)	37530	1.63113	1.6311
*	78 1,4-Dichlorobenzene-d4	152	17.938	17.953	(1.000)	364970	50.0000	
	80 n-Butylbenzene	91	18.254	18.268	(1.018)	58680	2.46909	2.4690
	82 1,2-Dibromo-3-Chloropropane	75	19.378	19.382	(1.080)	933	0.46624	0.4662
	83 1,2,4-Trichlorobenzene	180	20.749	20.437	(1.157)	1129	0.12043	0.1204
	85 Naphthalene	128	20.828	20.841	(1.161)	17802	0.82635	0.8263
	86 1,2,3-Trichlorobenzene	180	21.193	21.196	(1.181)	875	0.10090	0.1009

QC Flag Legend

M - Compound response manually integrated.

[1,1-Dichloroethene; 12 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

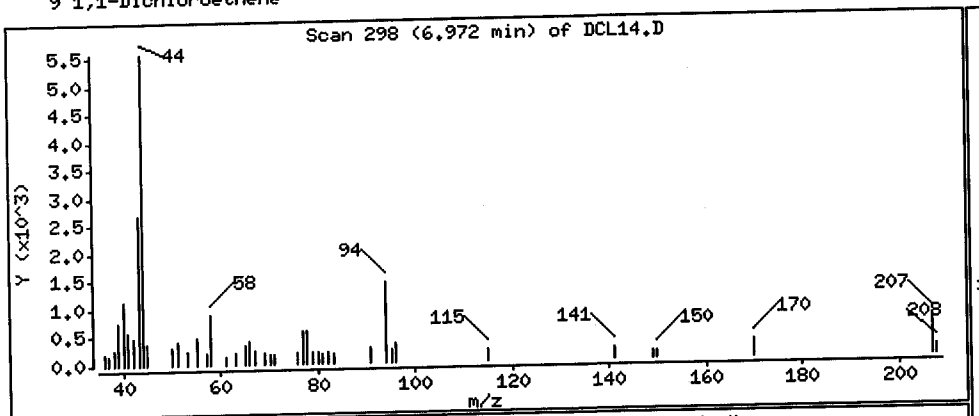
Operator: VOC

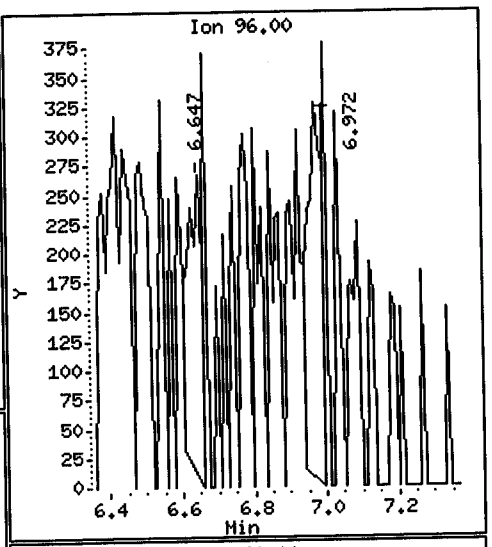
Column phase: RTx Volatiles

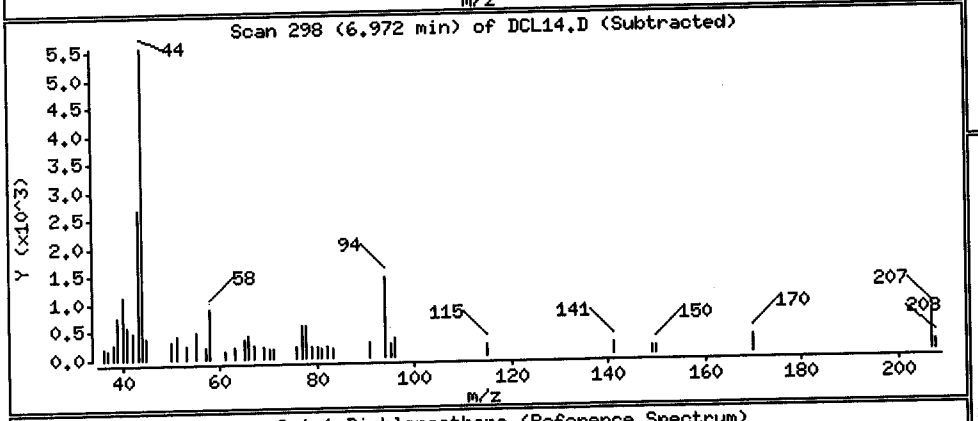
Column diameter: 0.32

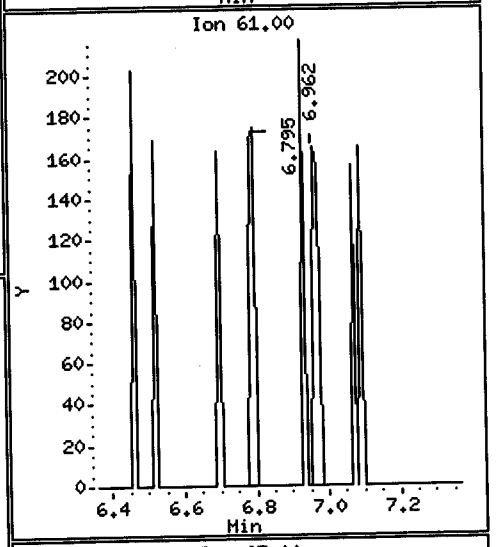
9 1,1-Dichloroethene

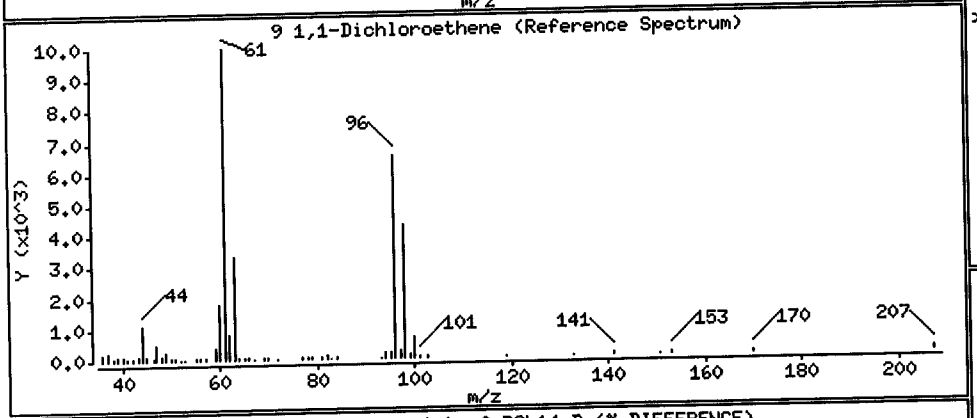
Concentration: 0.1459 UG/L

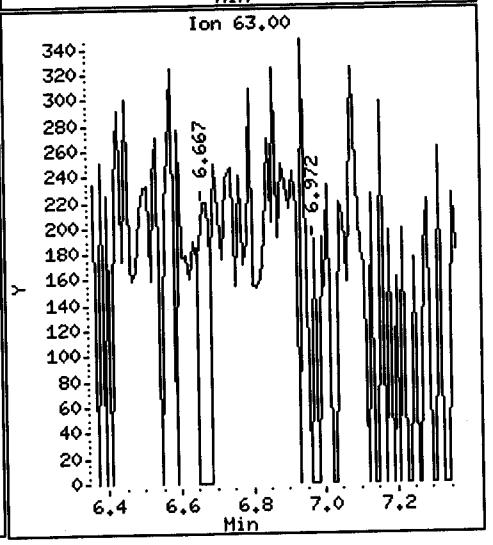


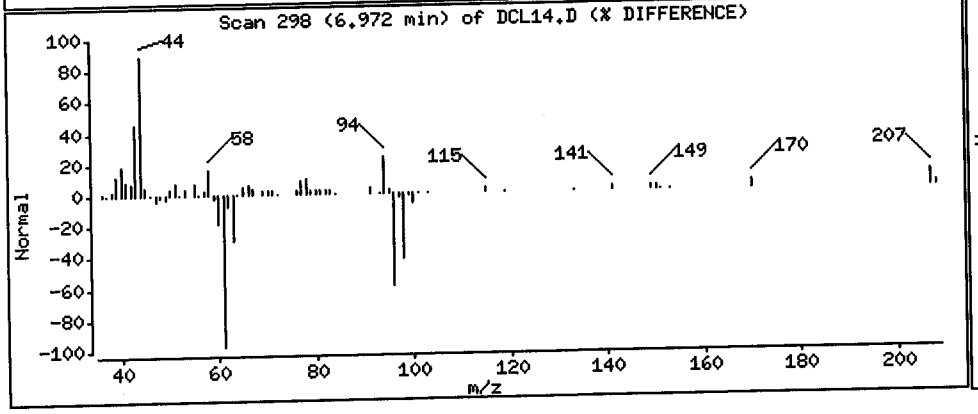












[Acetone; 160 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

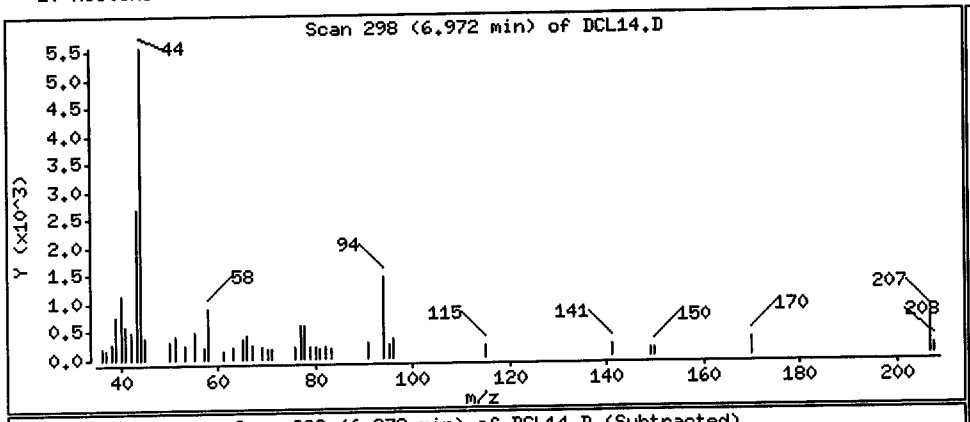
Operator: VOC

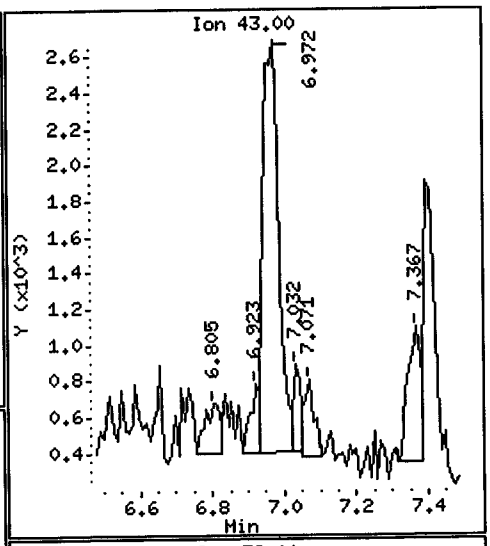
Column phase: RTx Volatiles

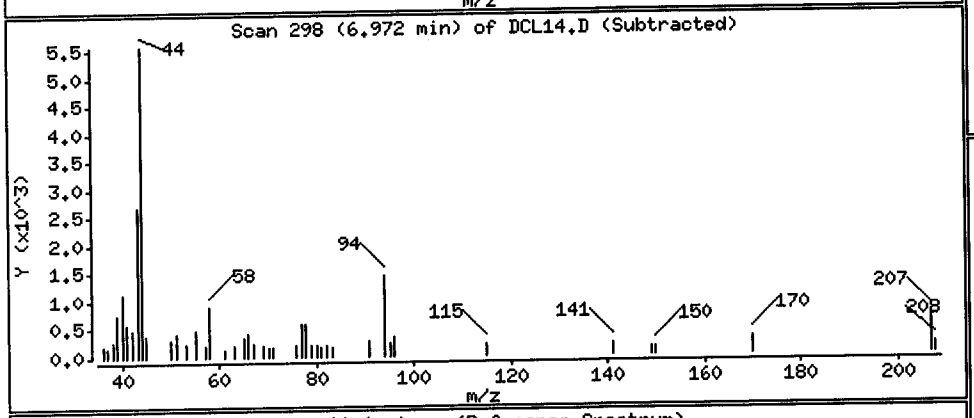
Column diameter: 0.32

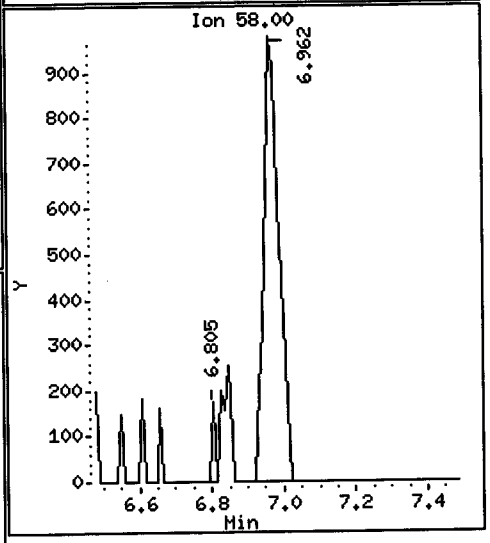
Concentration: 1.9655 UG/L

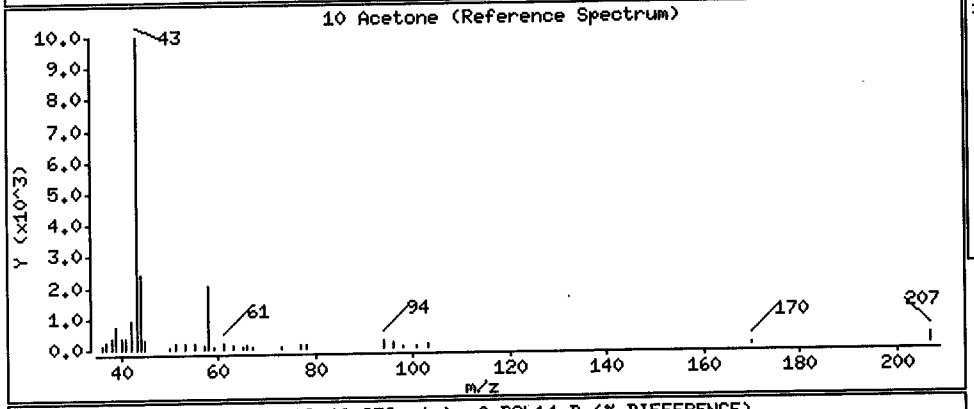
10 Acetone

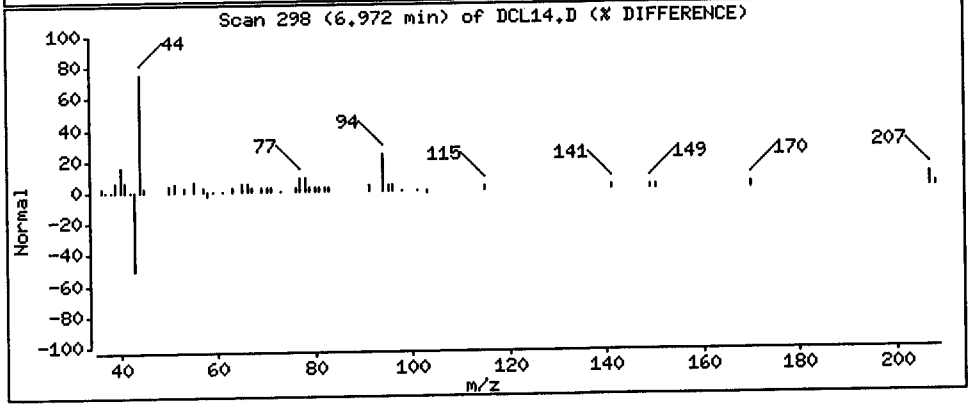












[Methylene Chloride; before version]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

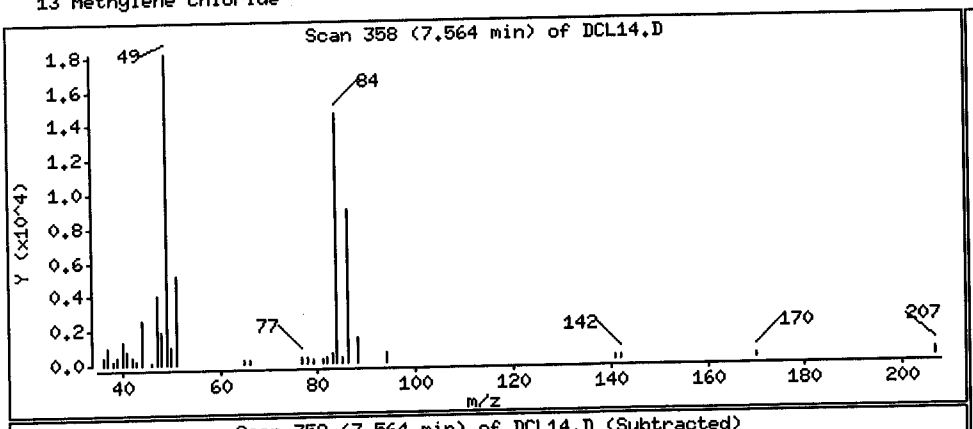
Operator: VOC

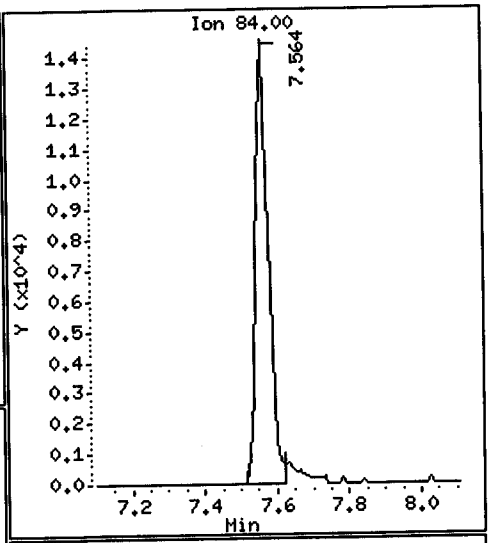
Column phase: RTx Volatiles

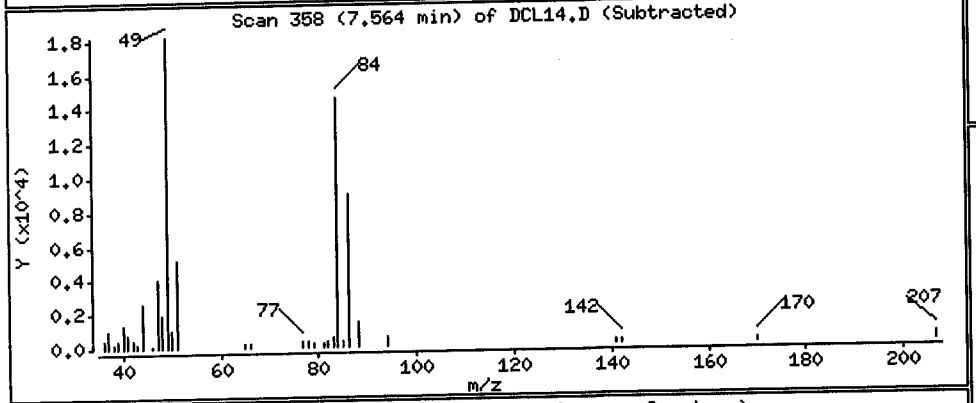
Column diameter: 0.32

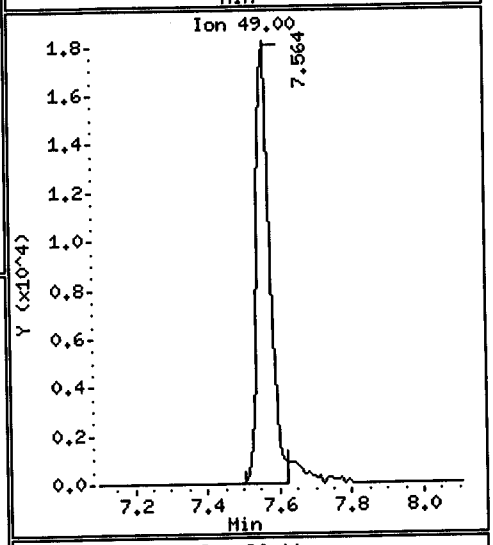
13 Methylene Chloride

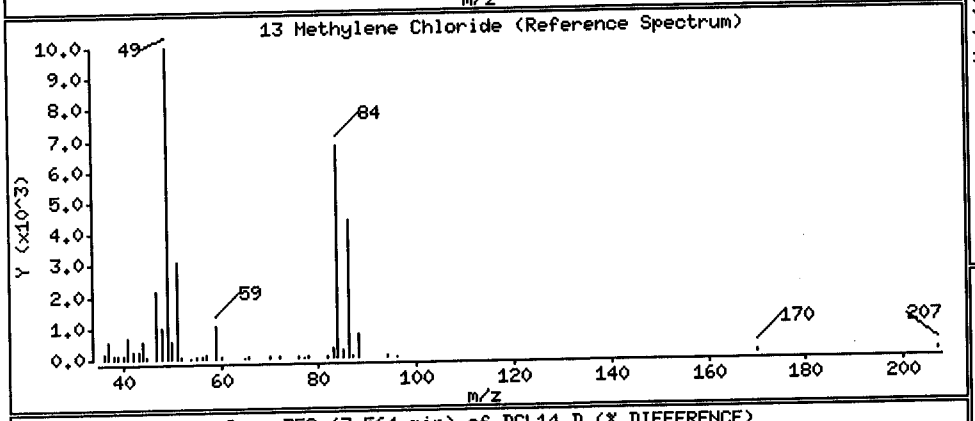
Concentration: 4.6219 UG/L

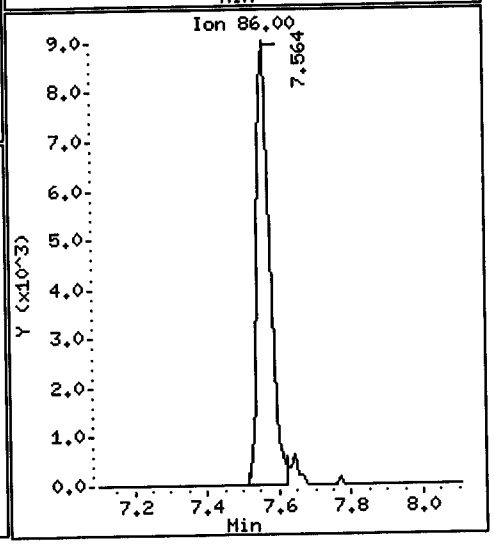


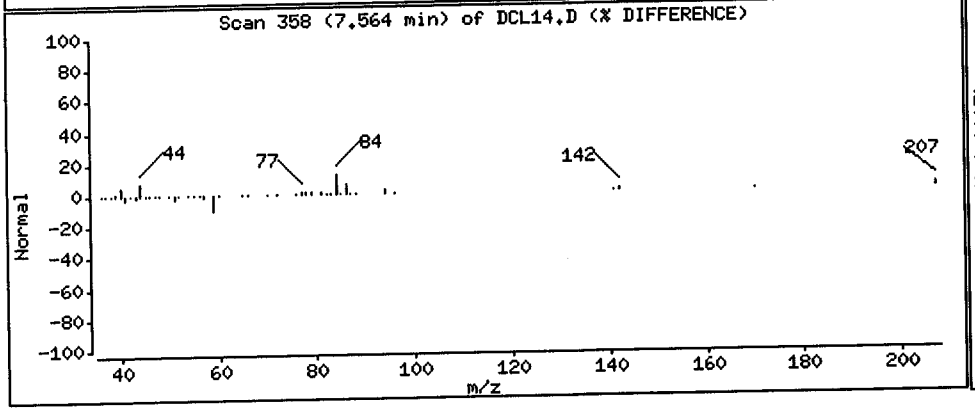












[Carbon Tetrachloride; 610; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Operator: VOC

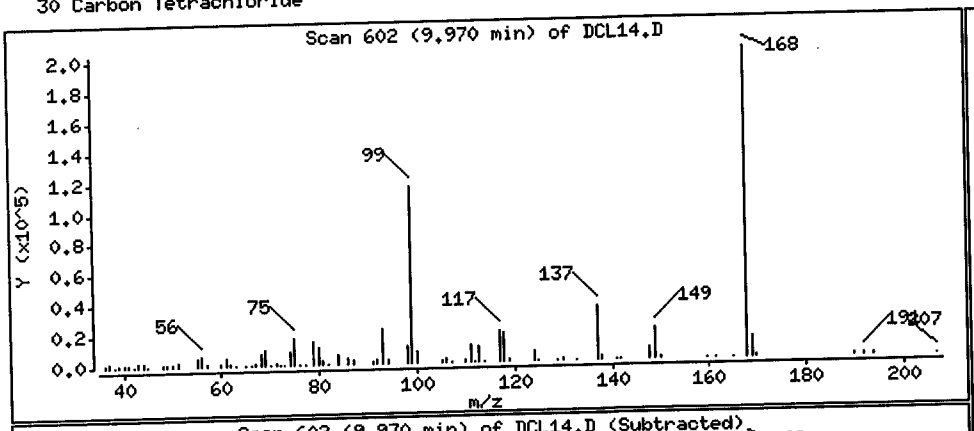
Purge Volume: 5.0

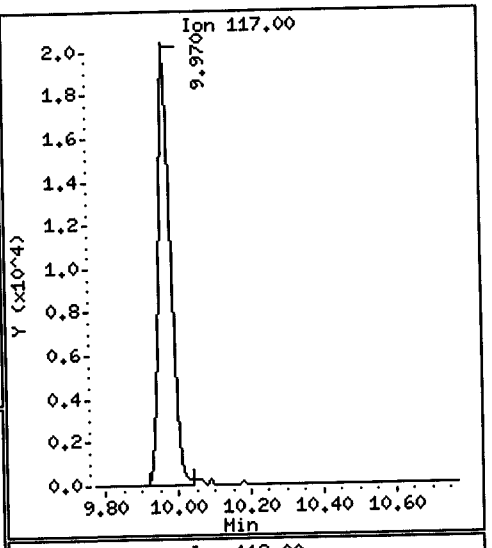
Column diameter: 0.32

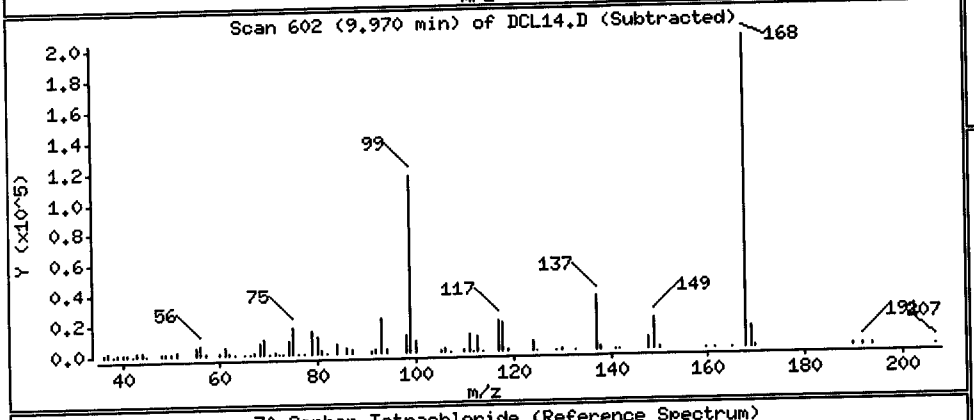
Column phase: RTx Volatiles

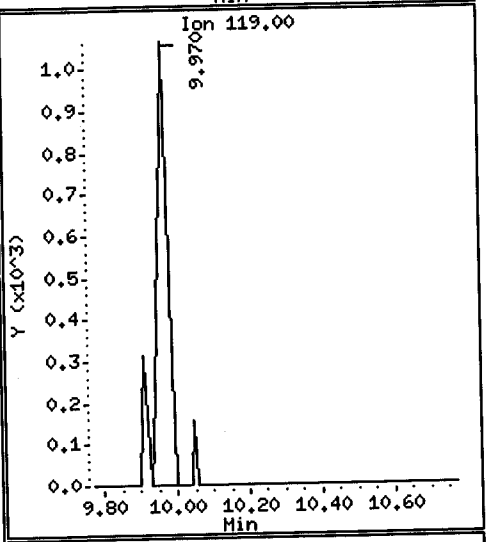
Concentration: 7.2696 UG/L

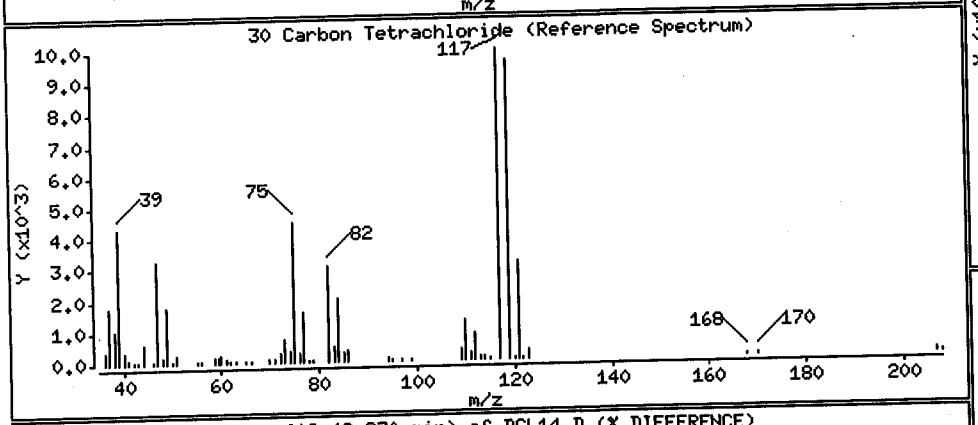
30 Carbon Tetrachloride

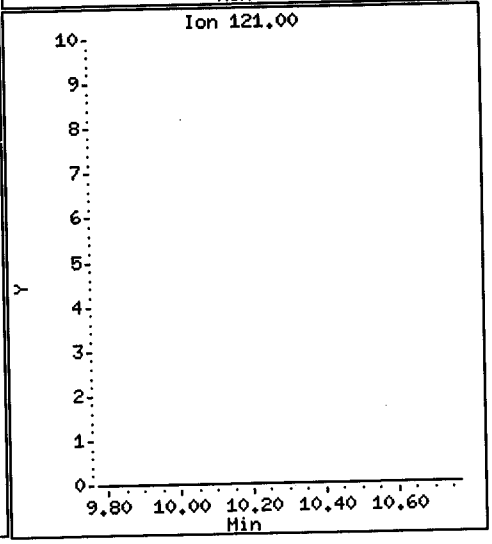


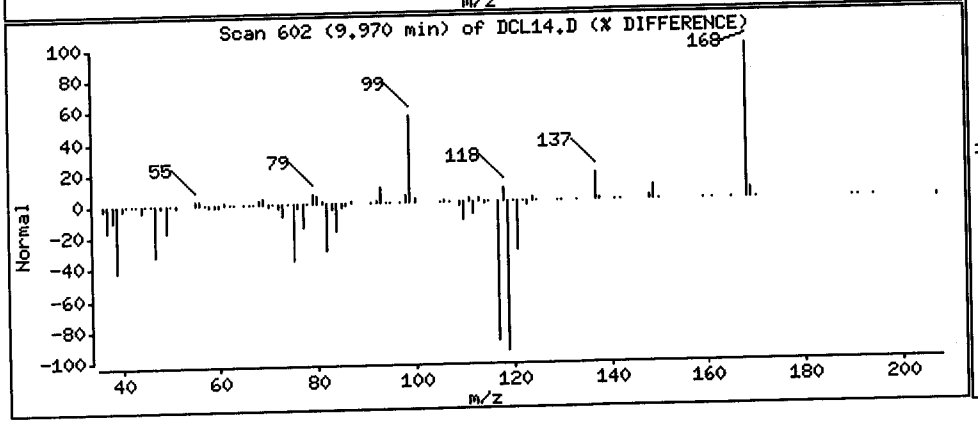












[1,1-Dichloropropene; 420; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Operator: VOC

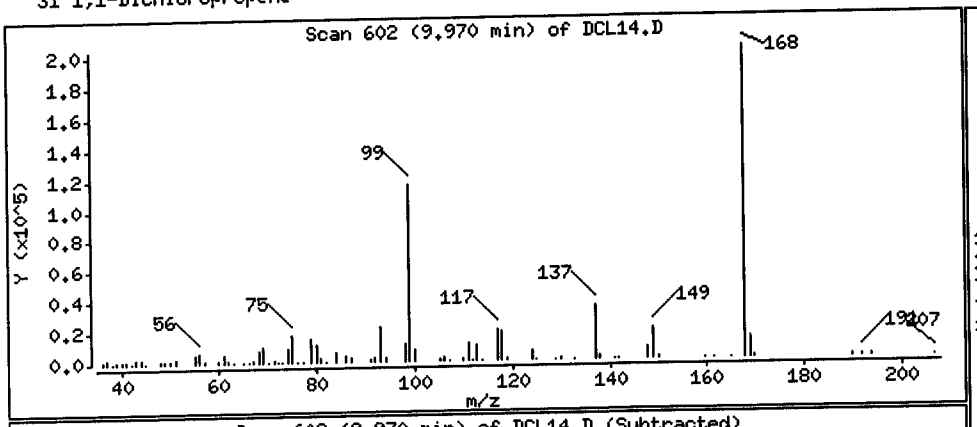
Purge Volume: 5.0

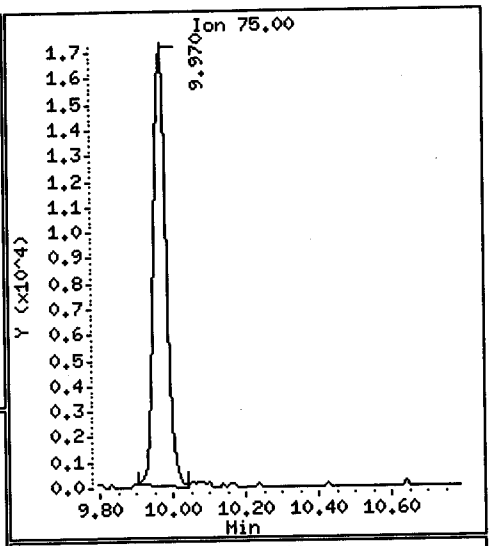
Column diameter: 0.32

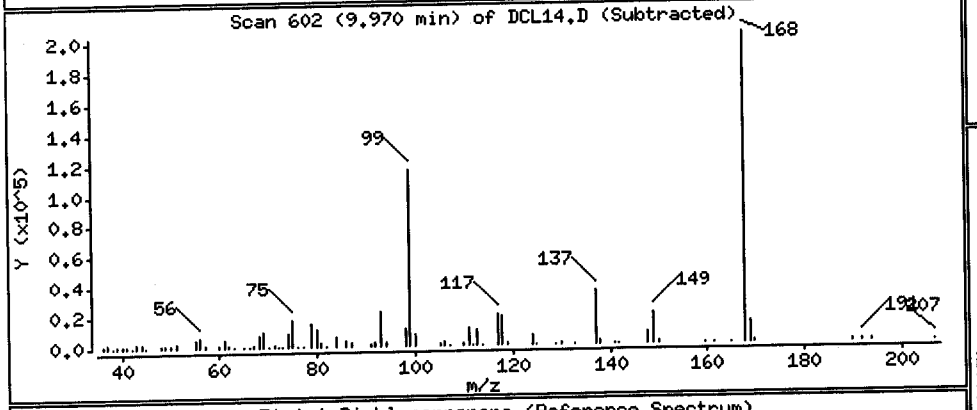
Column phase: RTx Volatiles

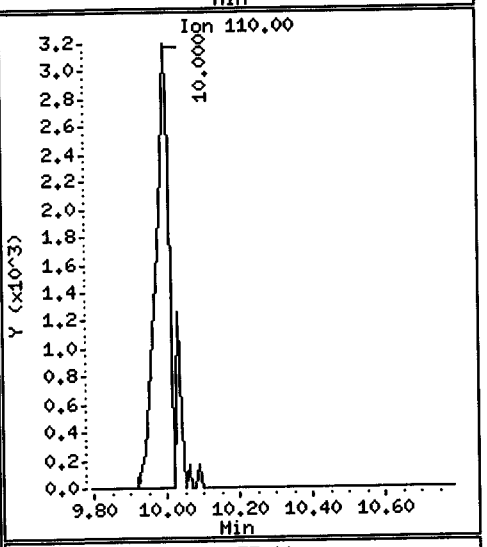
Concentration: 5.0677 UG/L

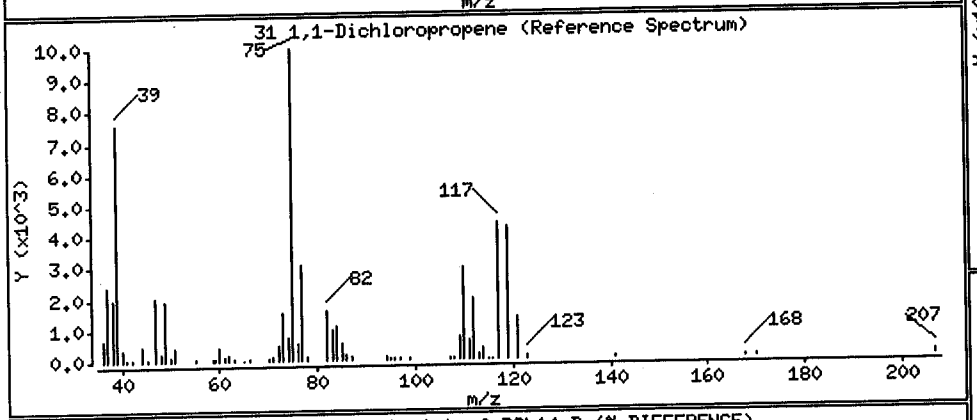
31 1,1-Dichloropropene

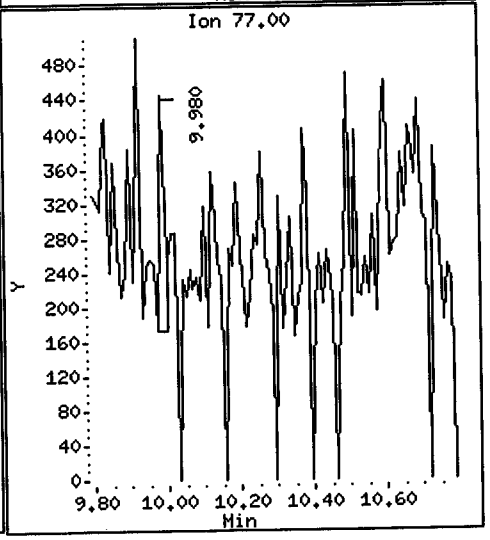


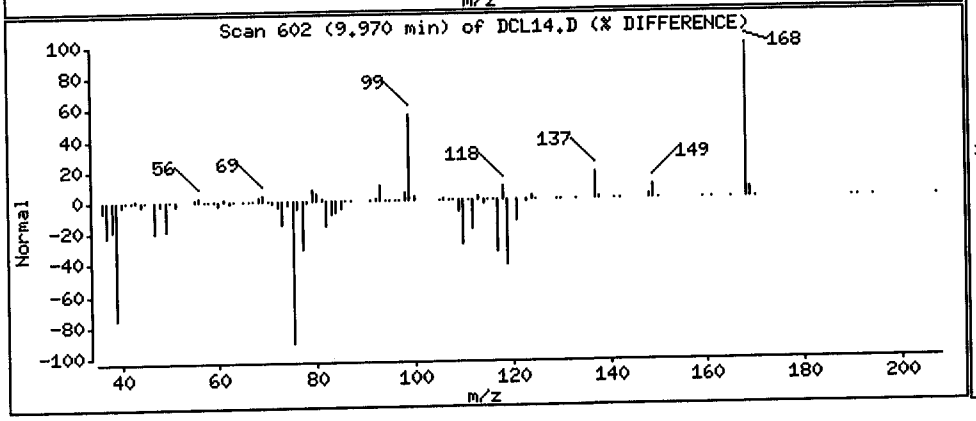












[Trichloroethene; 13 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

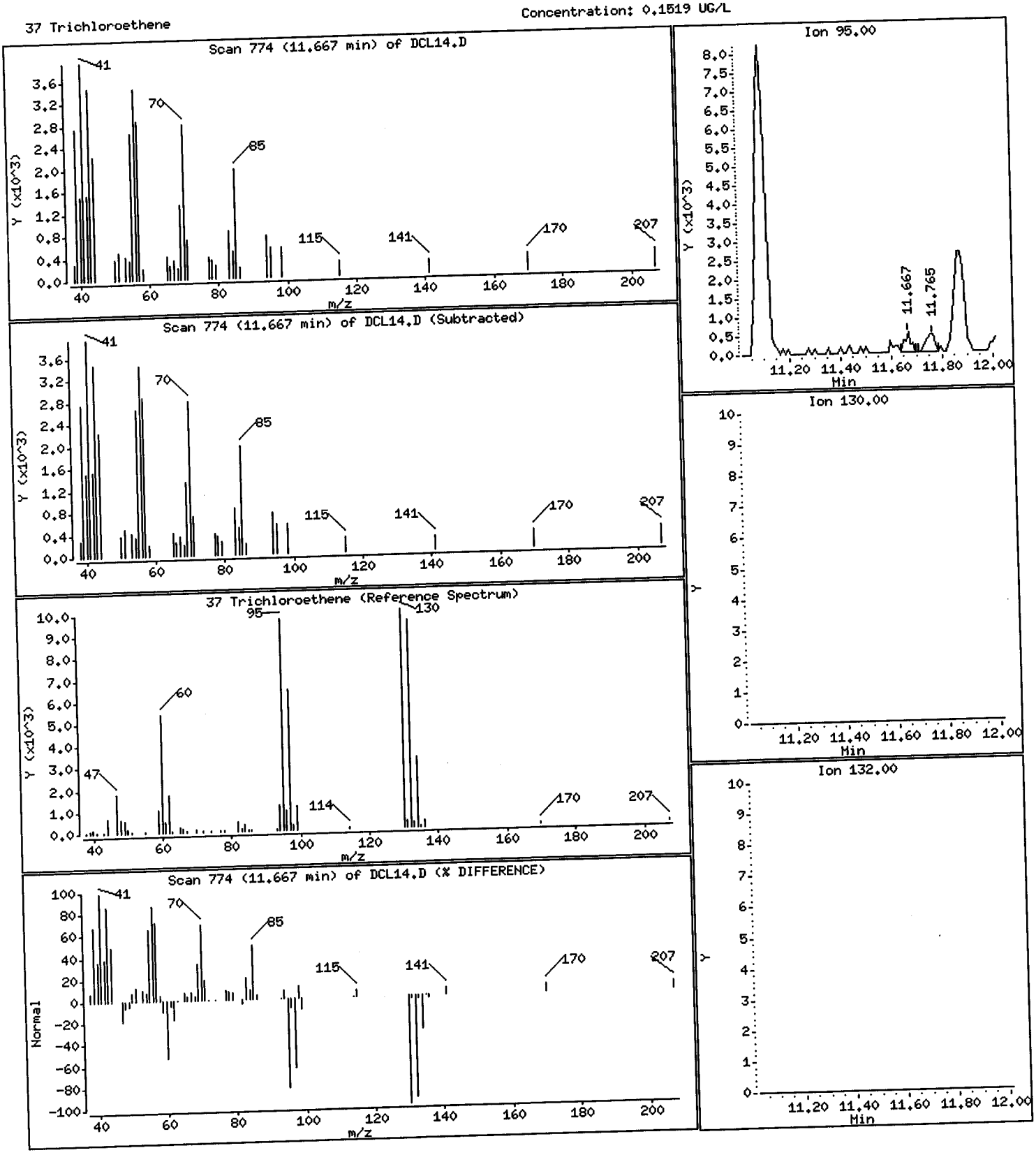
Instrument: MSVOA04.i

Operator: VOC

Column diameter: 0.32

Concentration: 0.1519 UG/L

37 Trichloroethene



[1,2-Dichloropropane; 80 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

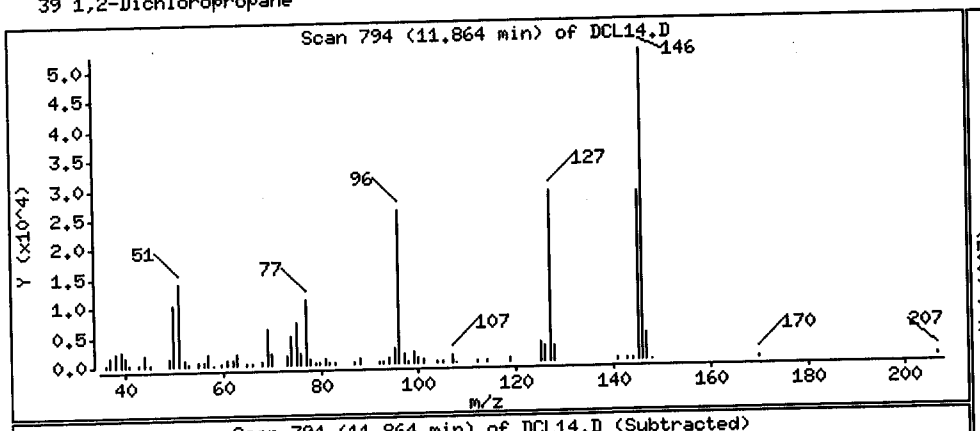
Instrument: MSVOA04.i

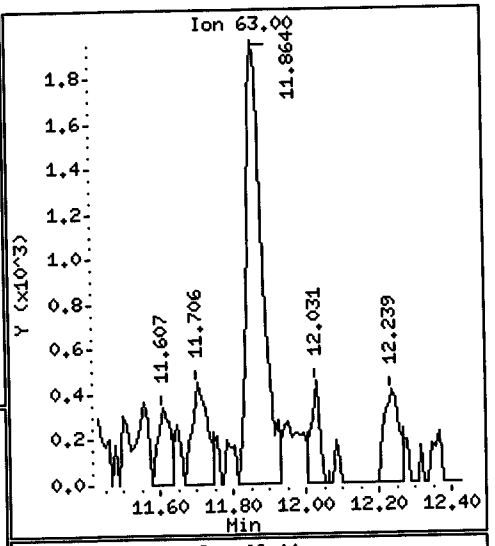
Operator: VOC

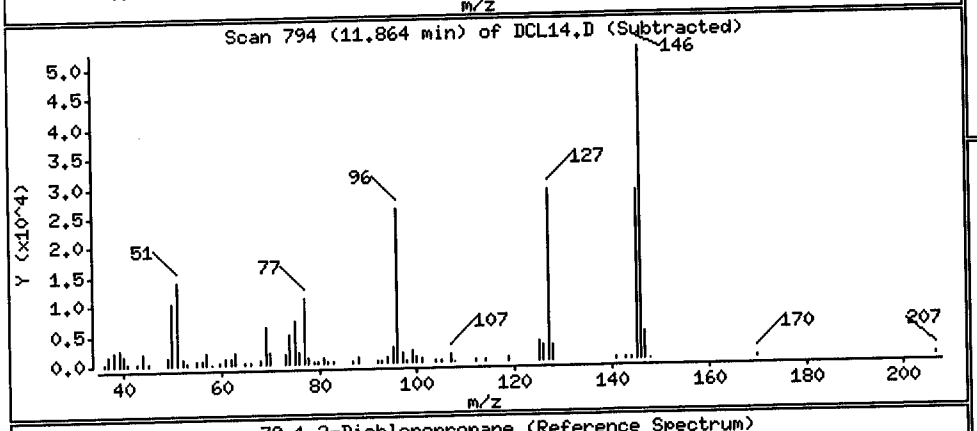
Column diameter: 0.32

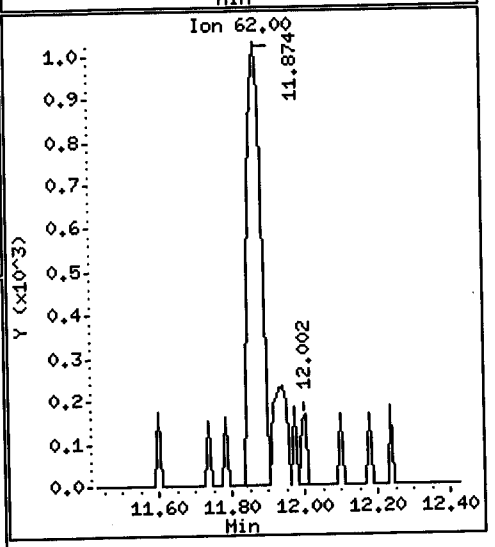
Concentration: 0.9598 UG/L

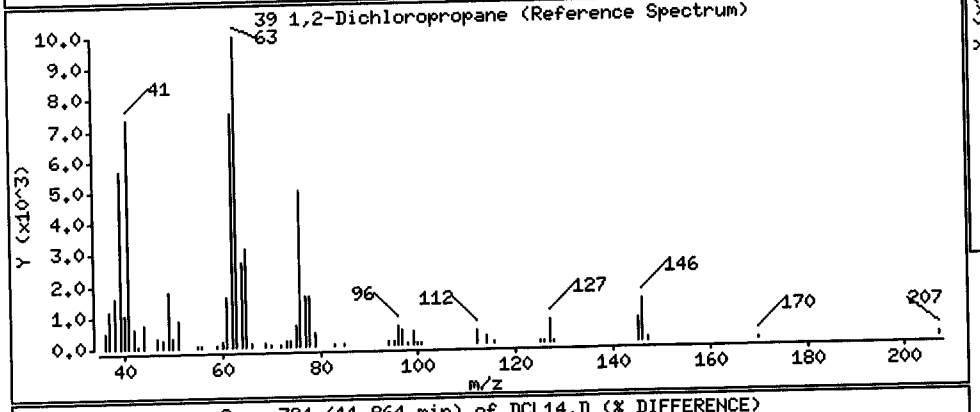
39 1,2-Dichloropropane

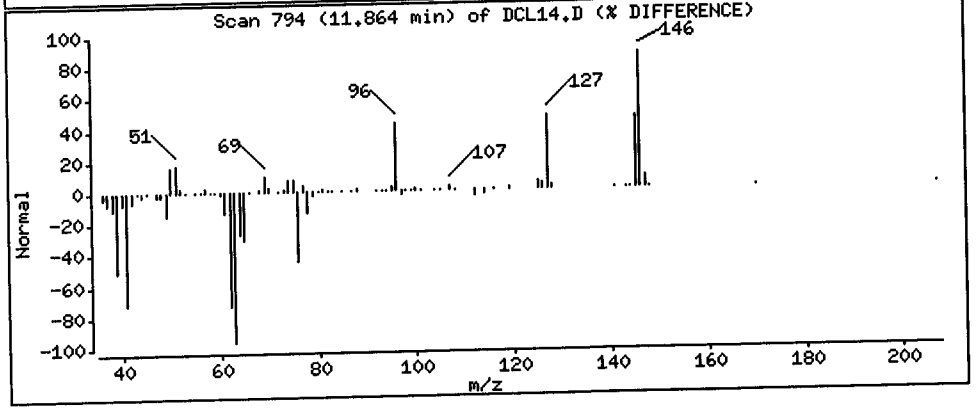












[Dibromomethane; 16 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

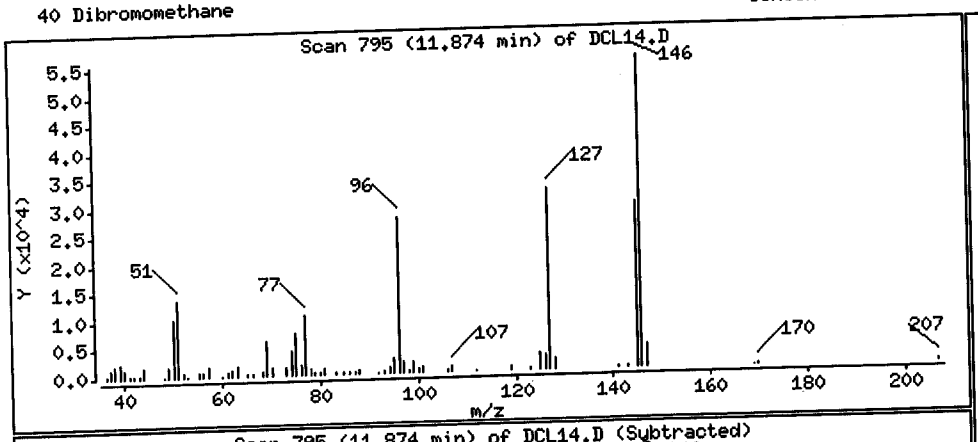
Instrument: MSVOA04.i

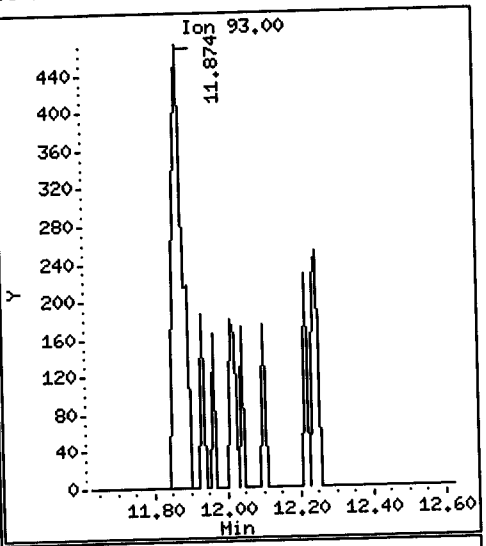
Operator: VOC

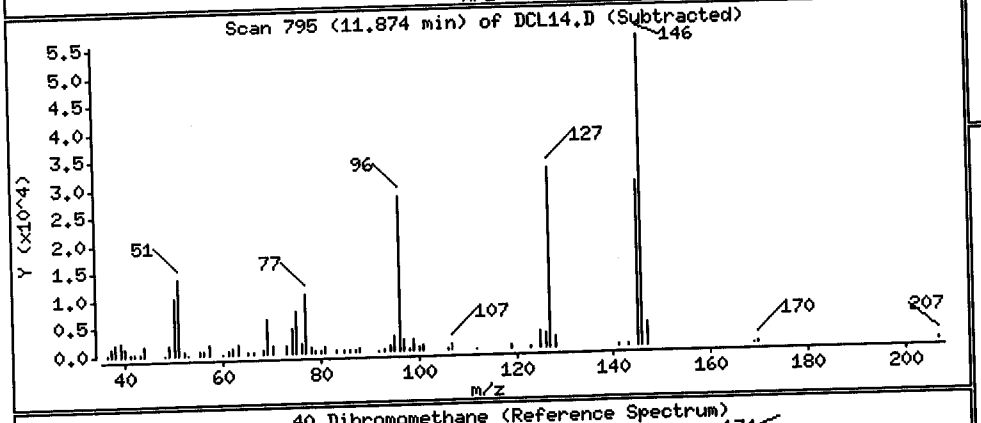
Column diameter: 0.32

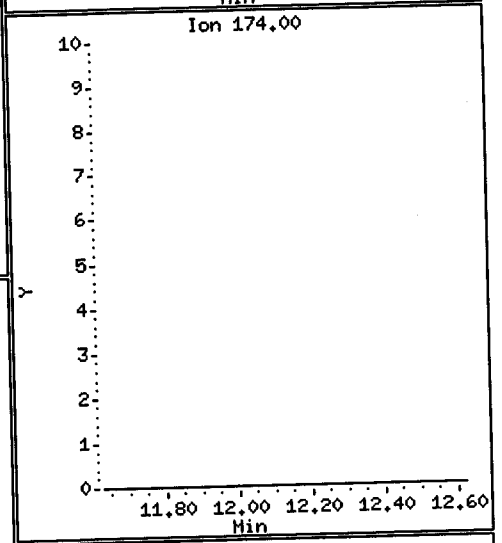
Concentration: 0.1903 UG/L

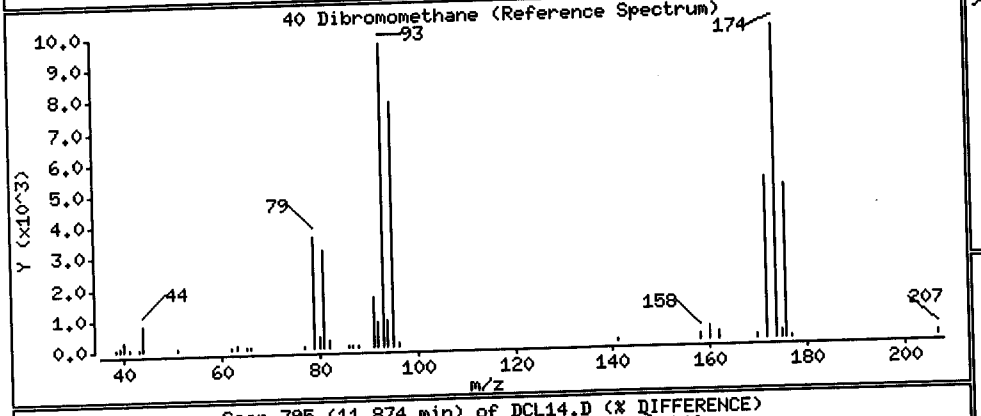
40 Dibromomethane

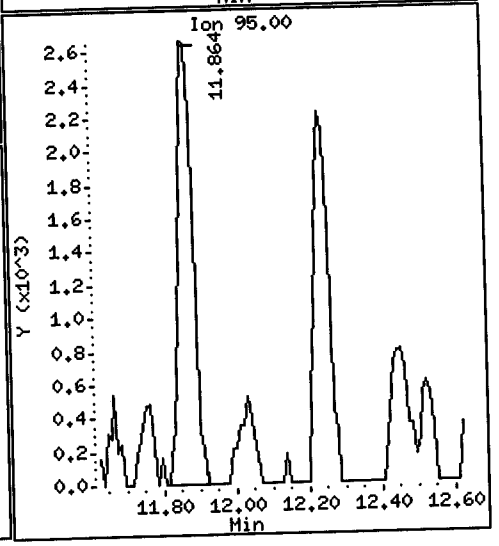


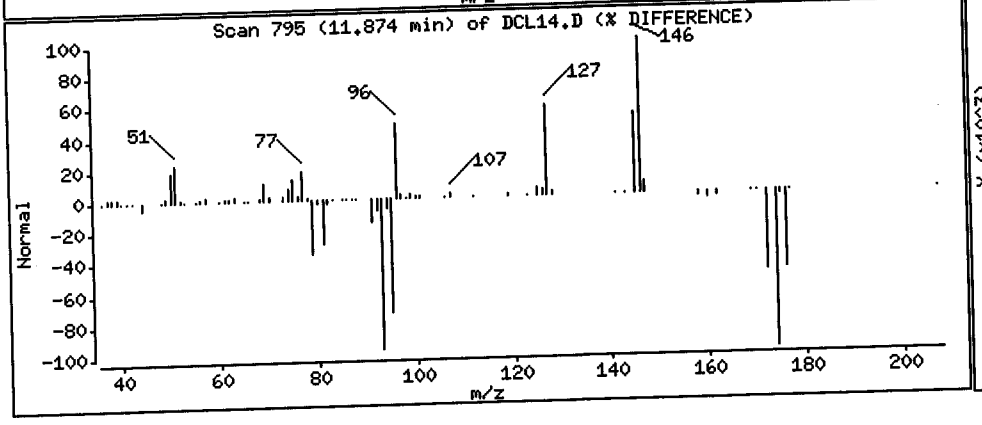












[Bromodichloromethane; 76 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Operator: VOC

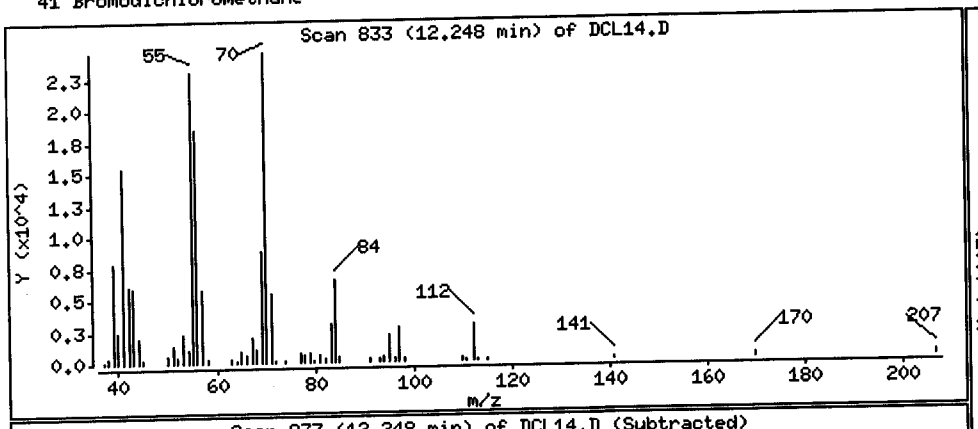
Purge Volume: 5.0

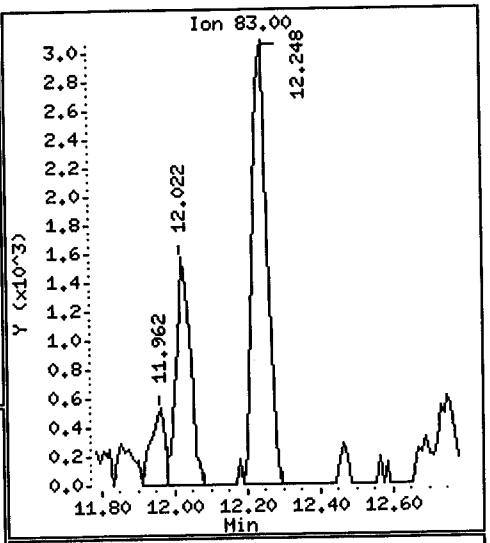
Column diameter: 0.32

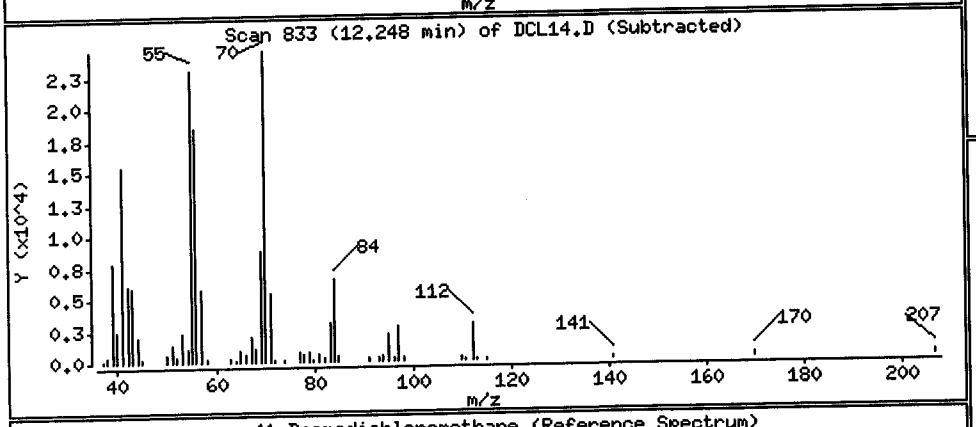
Column phase: RTx Volatiles

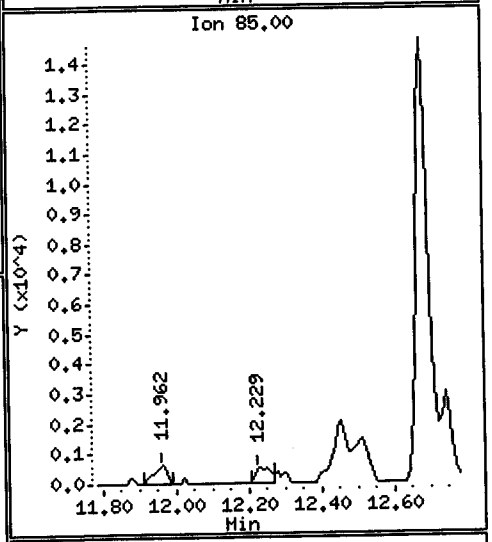
41 Bromodichloromethane

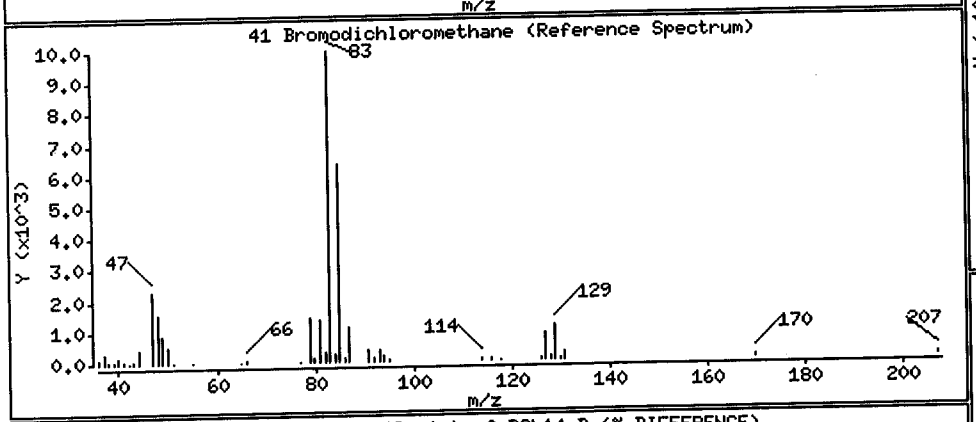
Concentration: 0.9164 UG/L

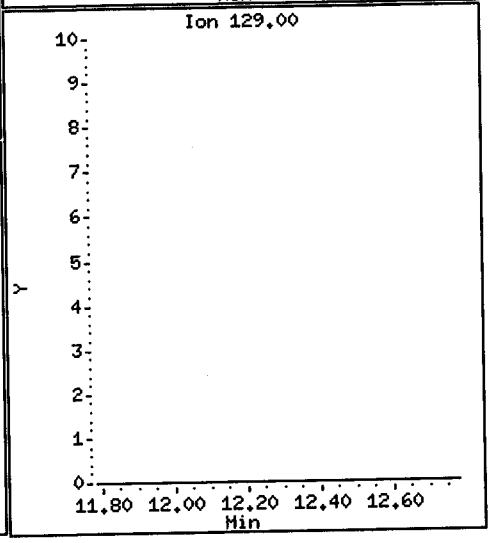


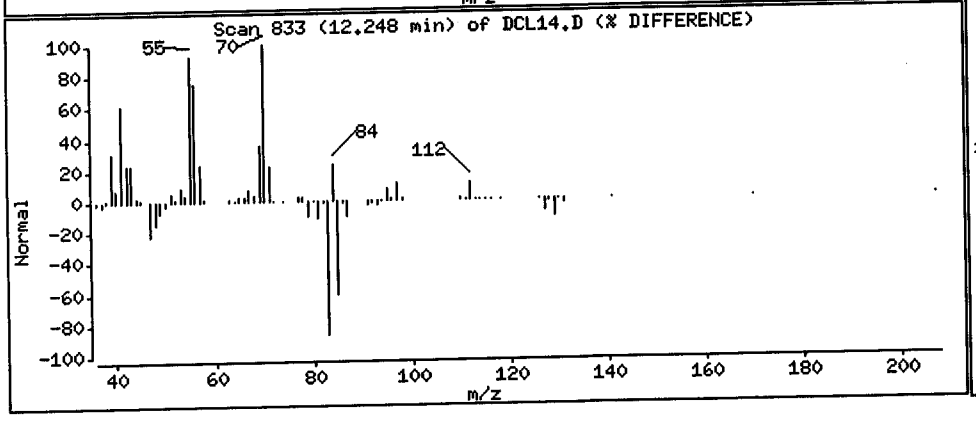












[1,1,2-Trichloroethane; 16 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

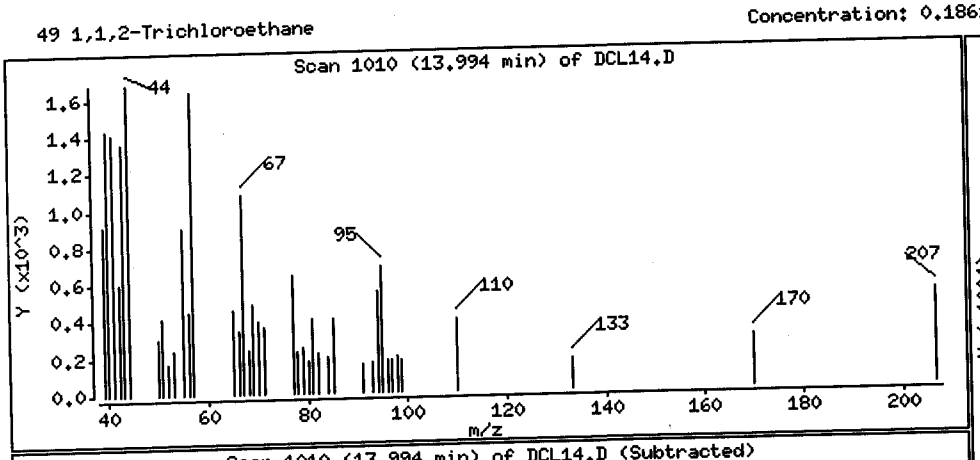
Instrument: MSVOA04.i

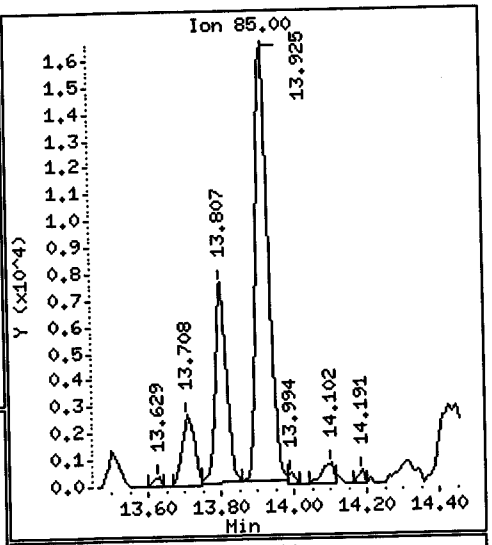
Operator: VOC

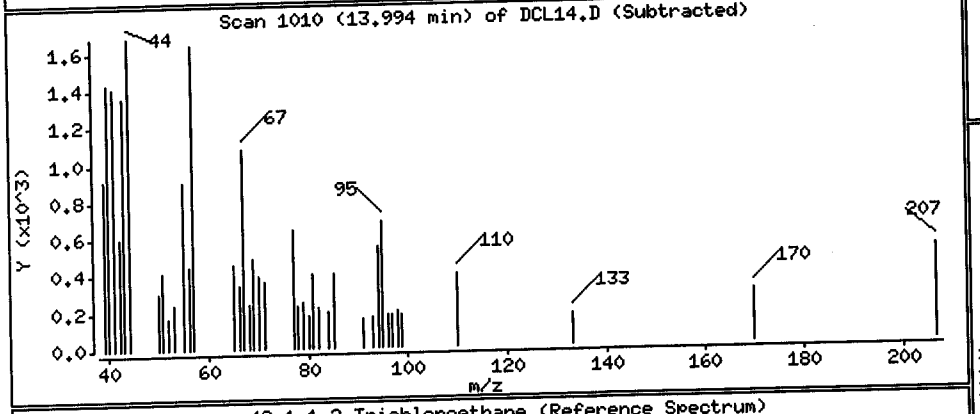
Column diameter: 0.32

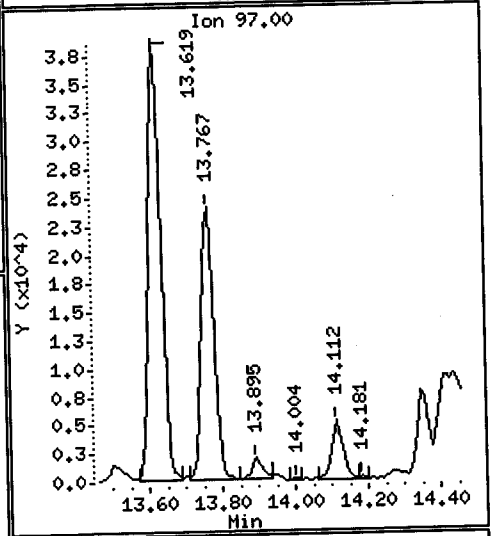
Concentration: 0.1861 UG/L

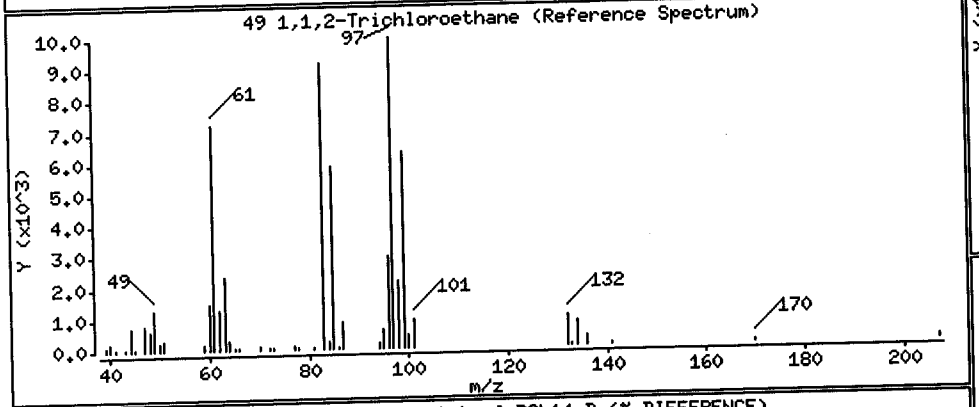
49 1,1,2-Trichloroethane

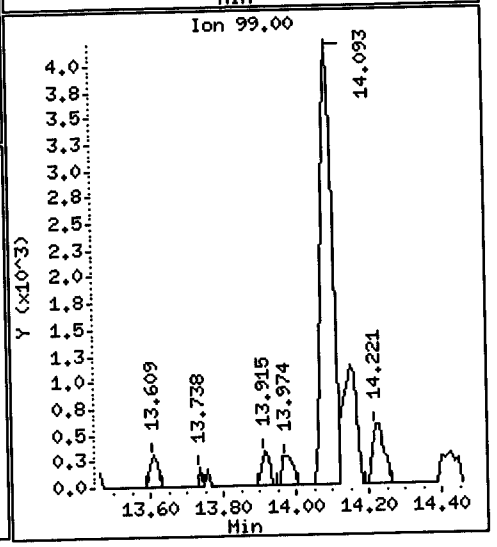


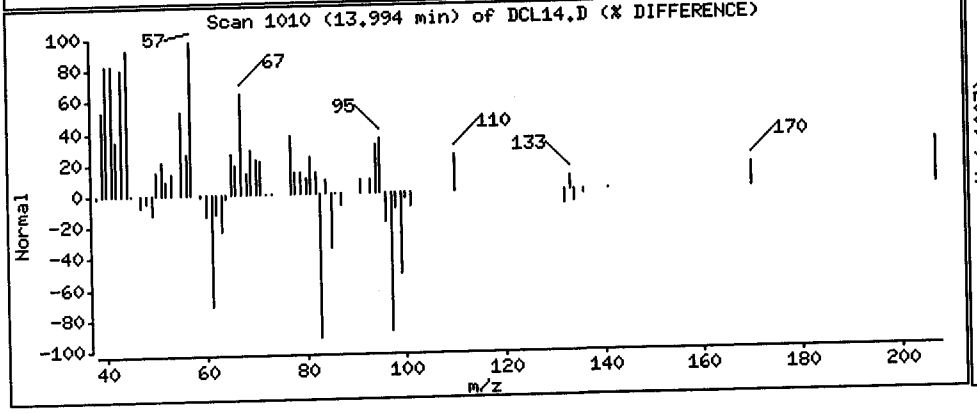












[Chlorobenzene; 31 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

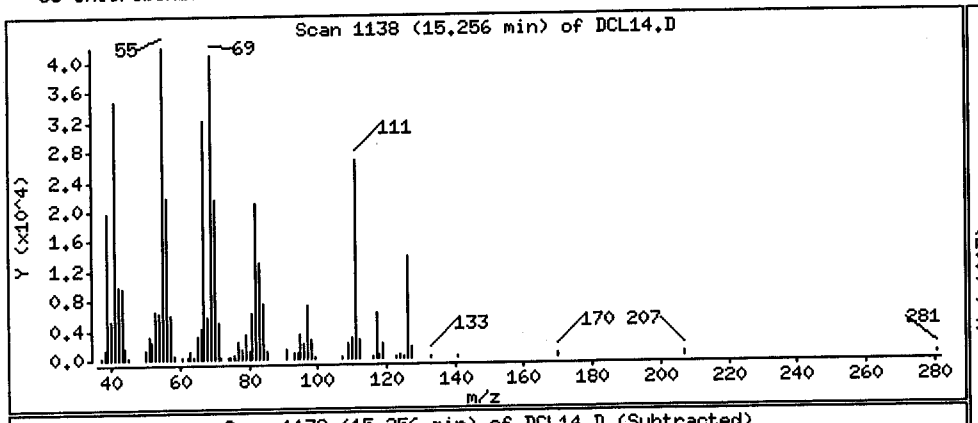
Operator: VOC

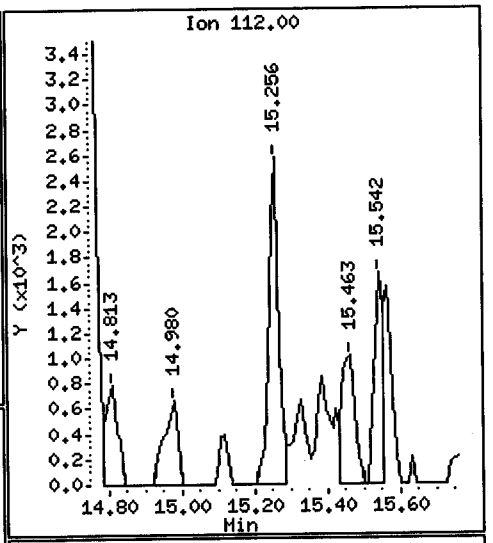
Column phase: RTx Volatiles

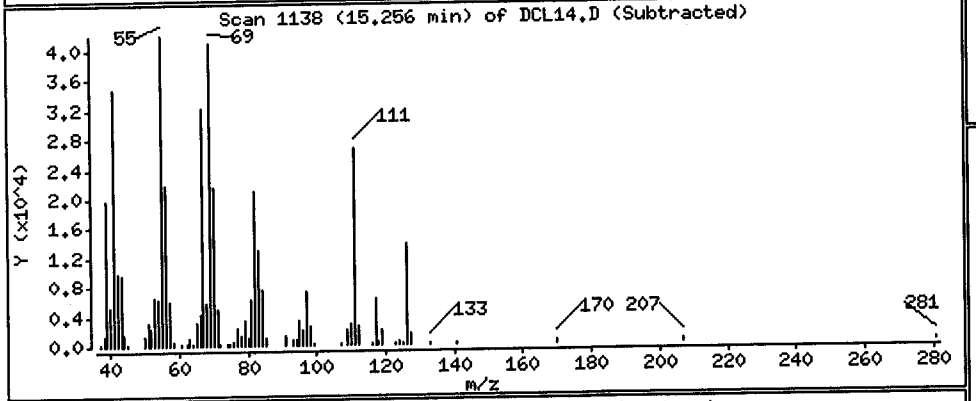
Column diameter: 0.32

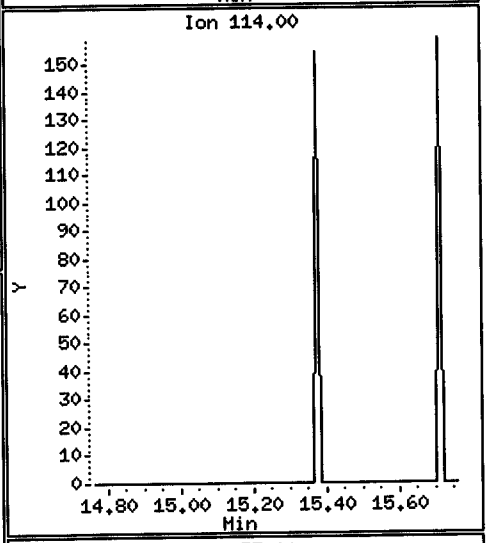
56 Chlorobenzene

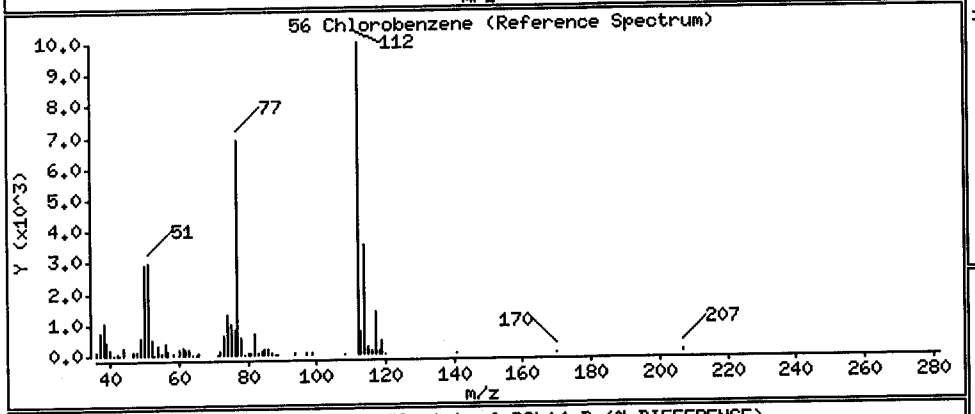
Concentration: 0.3670 UG/L

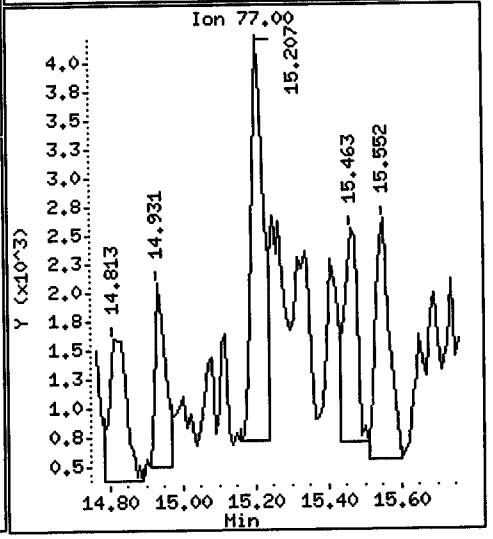


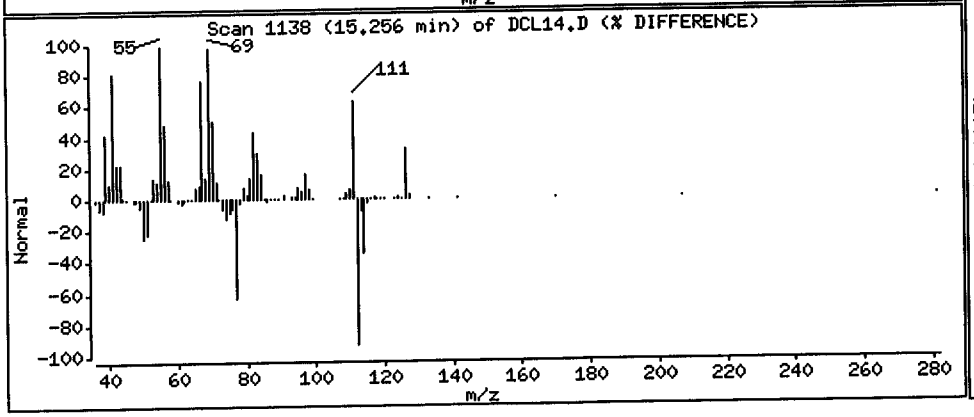












[Ethylbenzene; 16 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

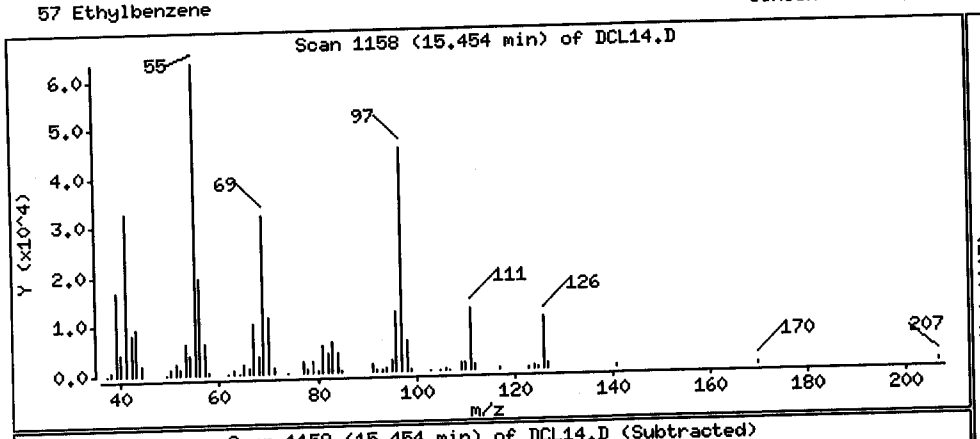
Instrument: MSVOA04.i

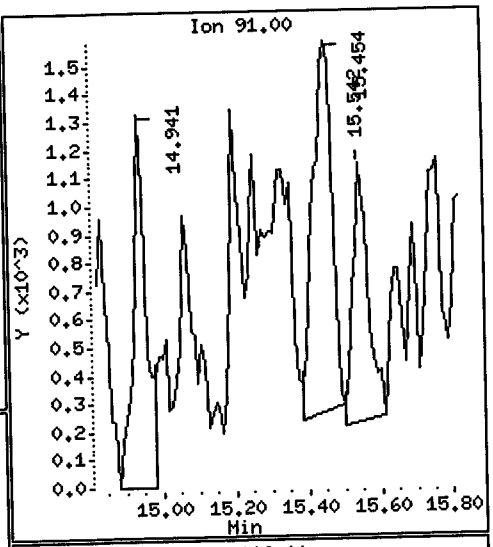
Operator: VOC

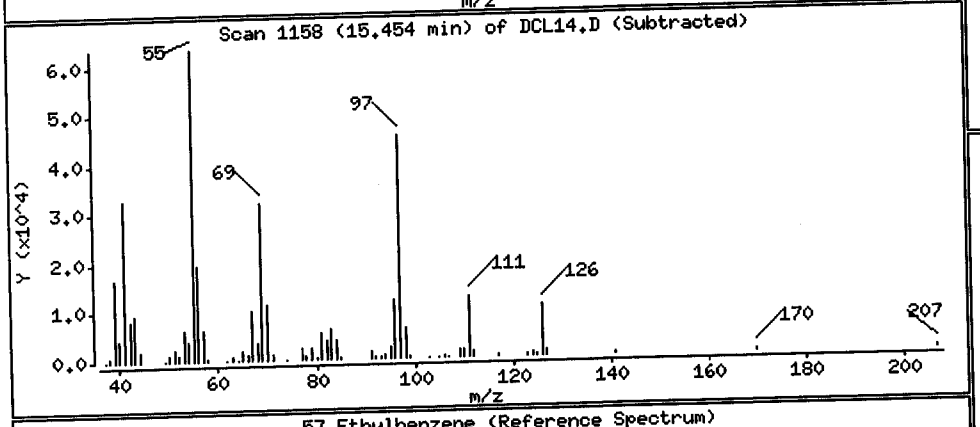
Column diameter: 0.32

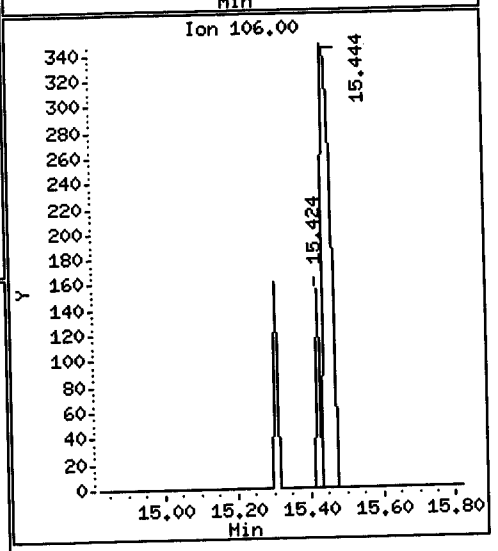
Concentration: 0.1937 UG/L

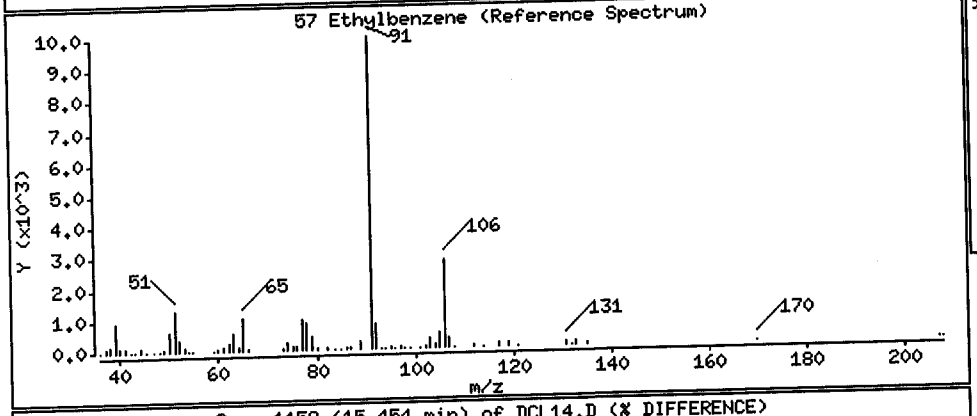
57 Ethylbenzene

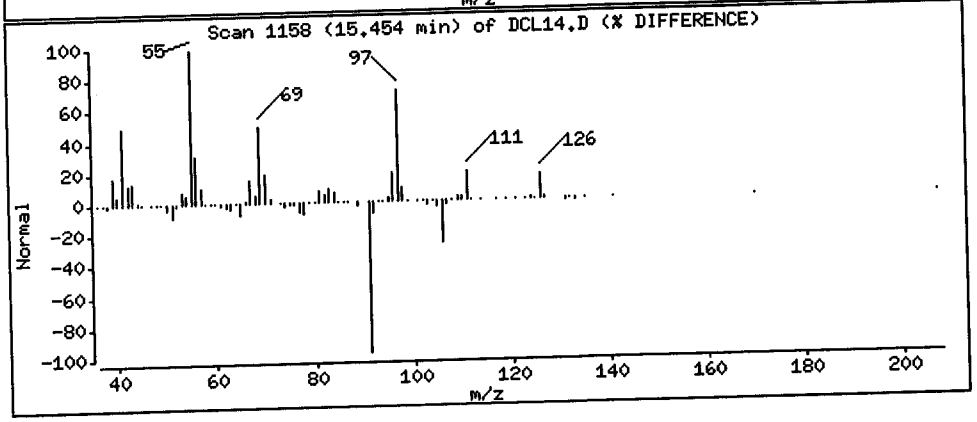












[o-Xylene; 11 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

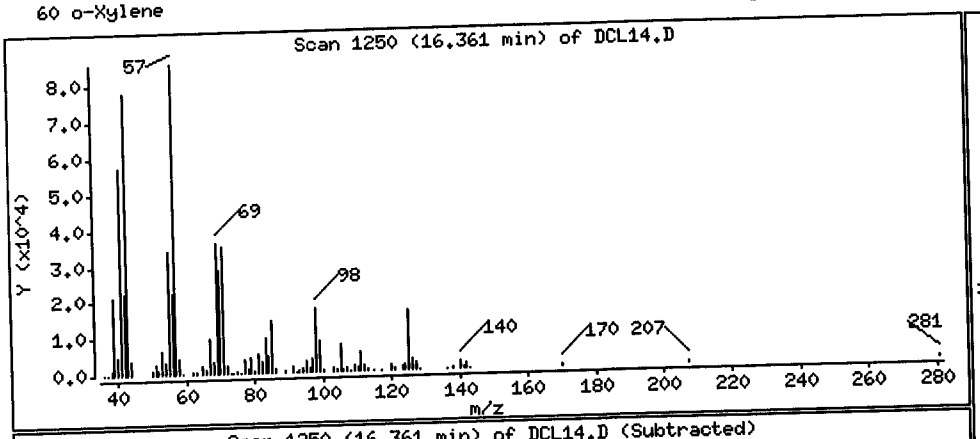
Instrument: MSVOA04.i

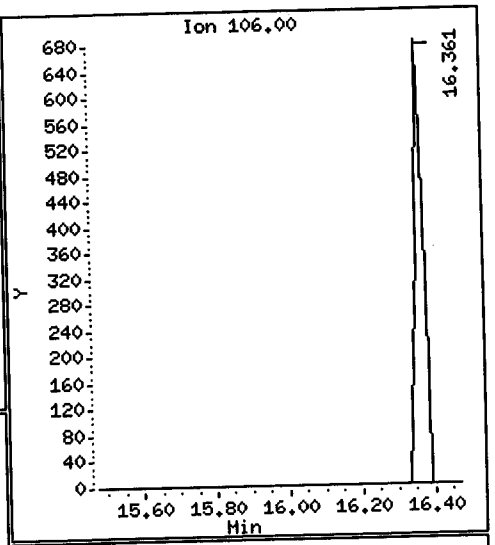
Operator: VOC

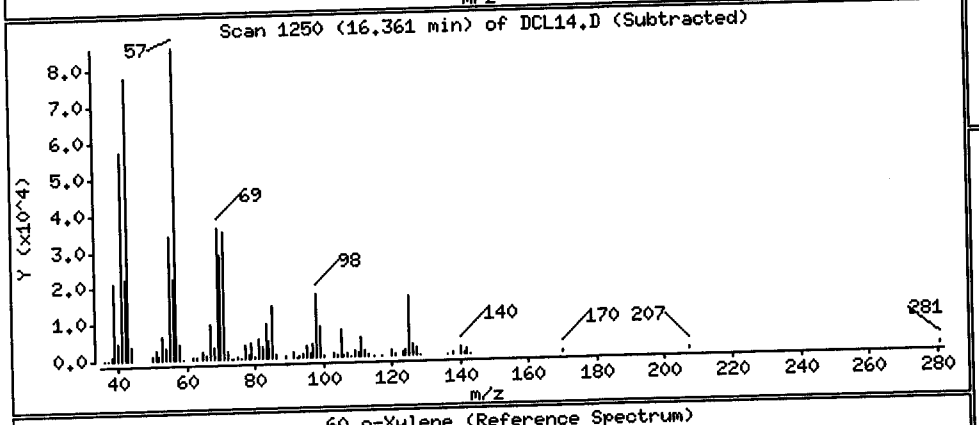
Column diameter: 0.32

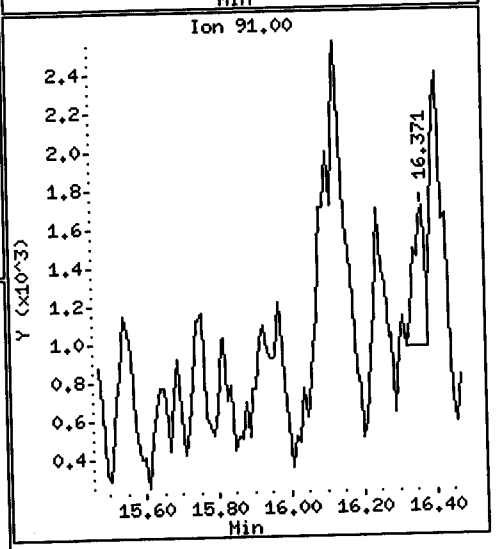
Concentration: 0.1300 UG/L

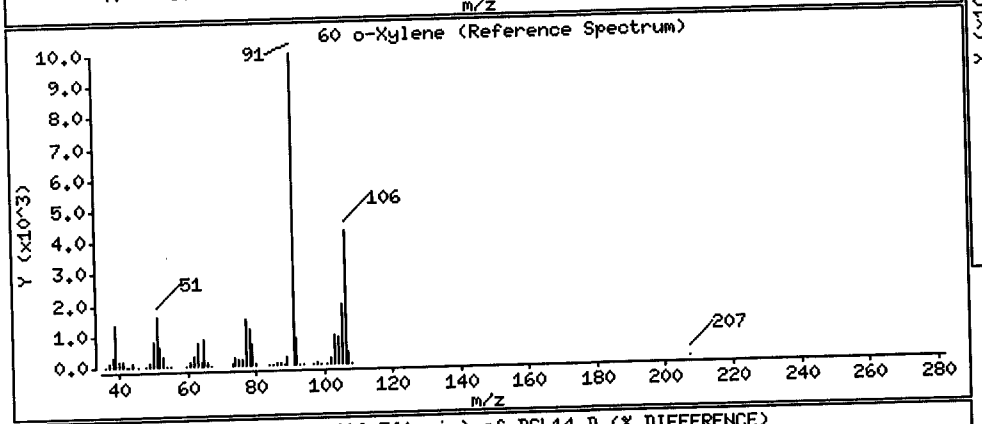
60 o-Xylene

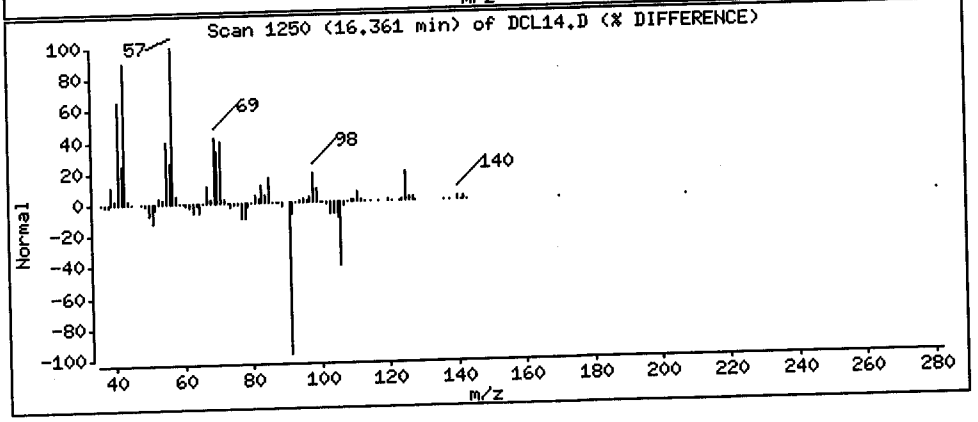












[Isopropylbenzene; 52 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

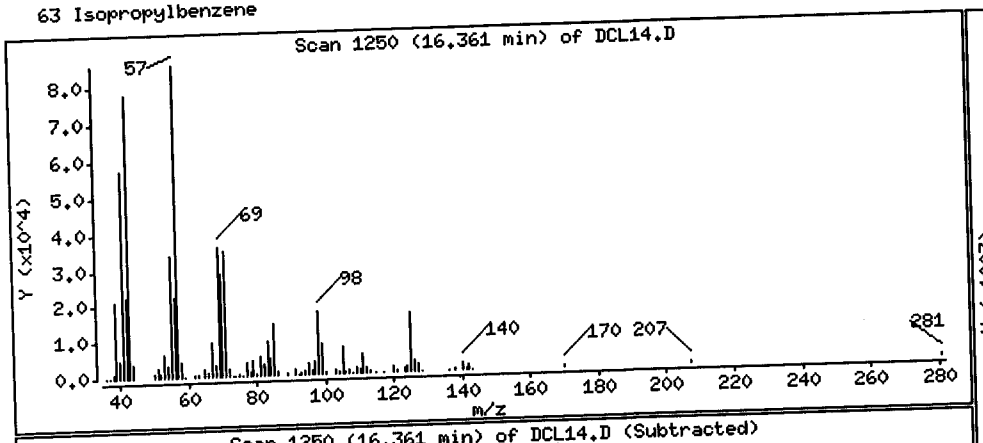
Instrument: MSVOA04.i

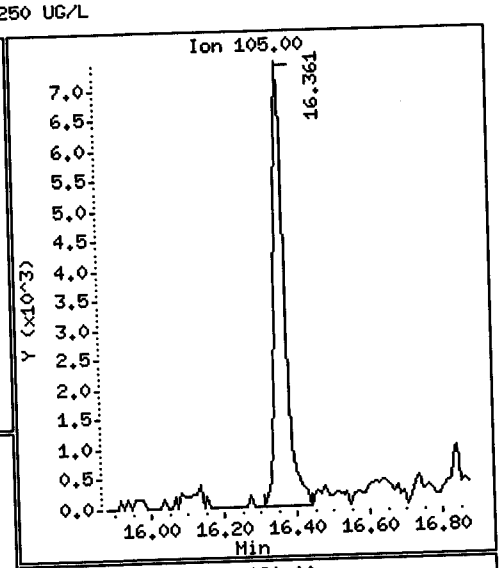
Operator: VOC

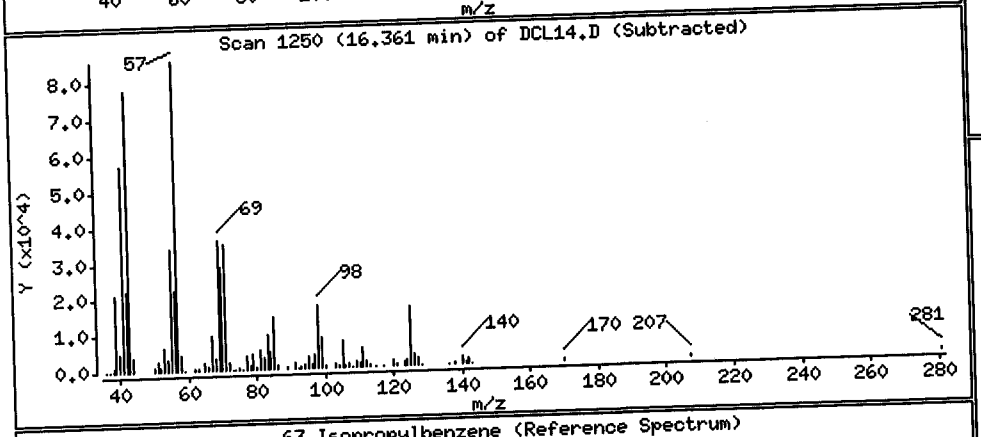
Column diameter: 0.32

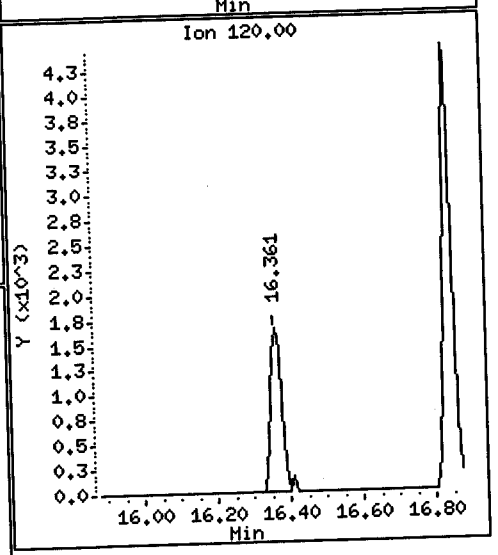
Concentration: 0.6250 UG/L

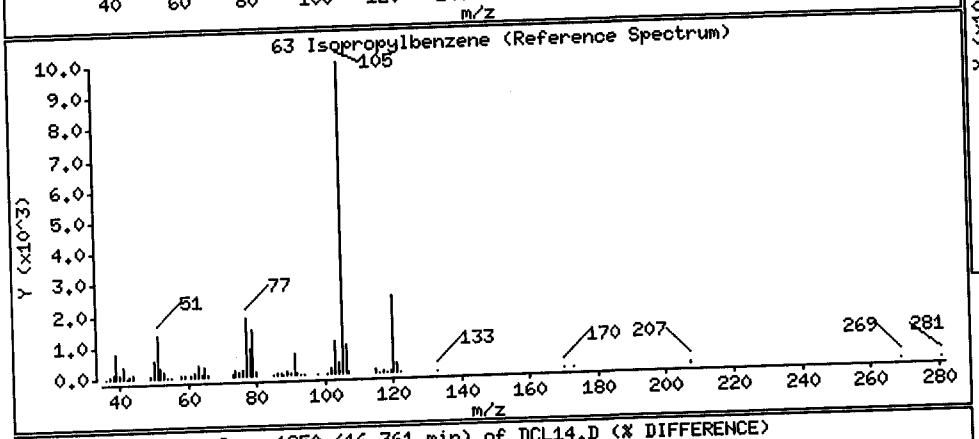
63 Isopropylbenzene

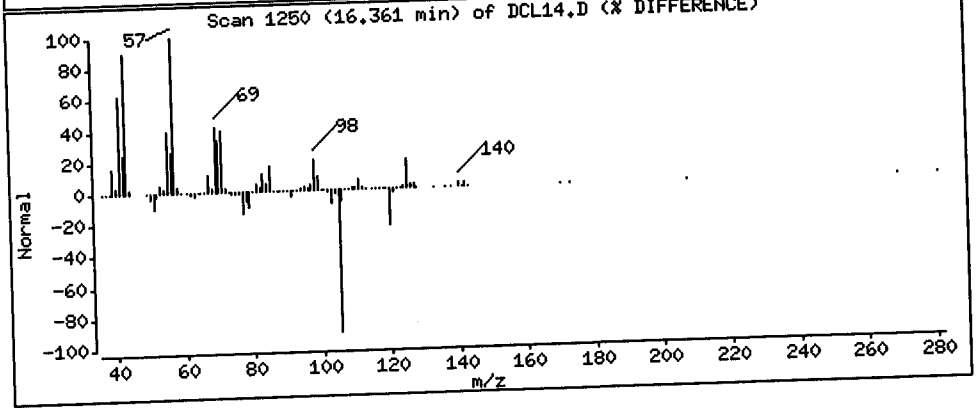












[1,1,2,2-Tetrachloroethane; 330 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

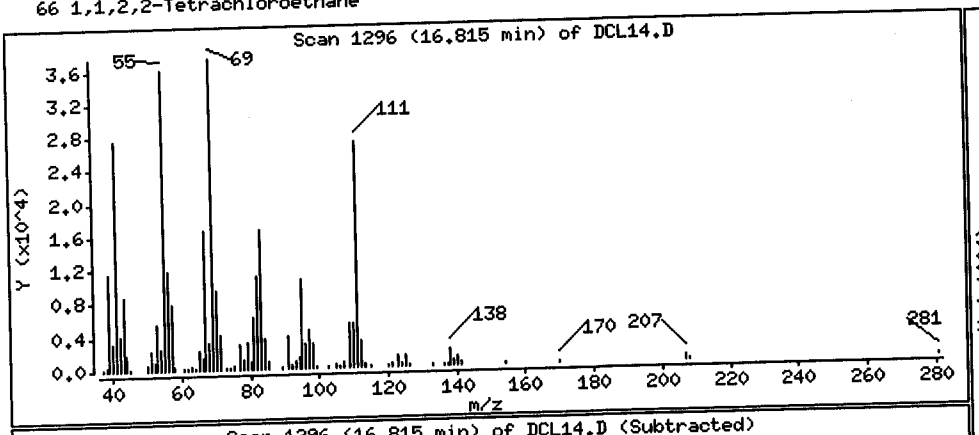
Instrument: MSVOA04.i

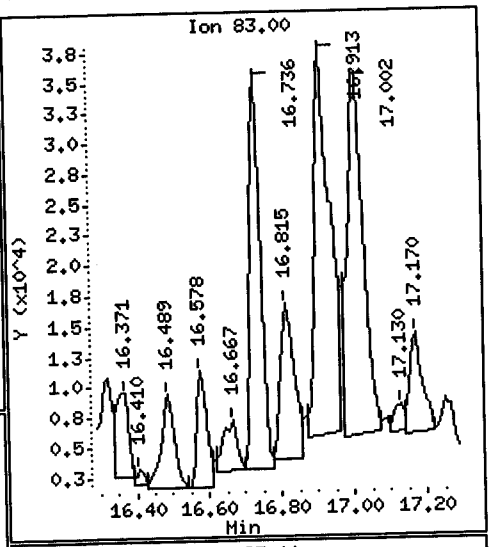
Operator: VOC

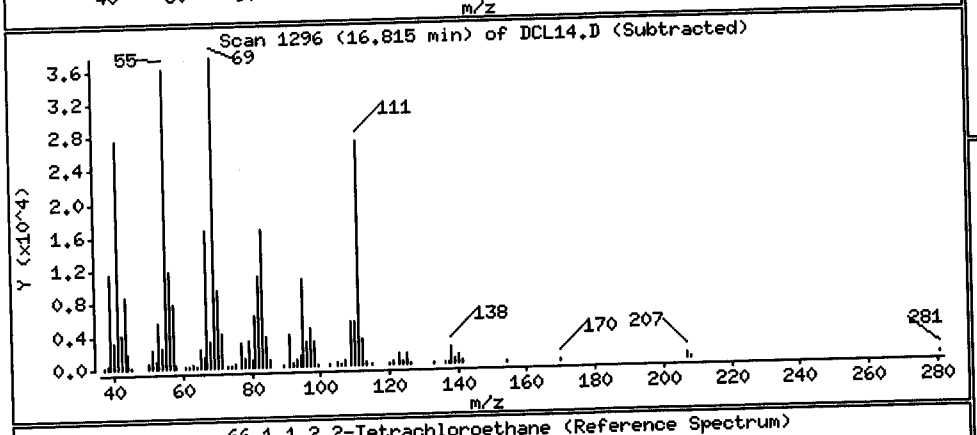
Column diameter: 0.32

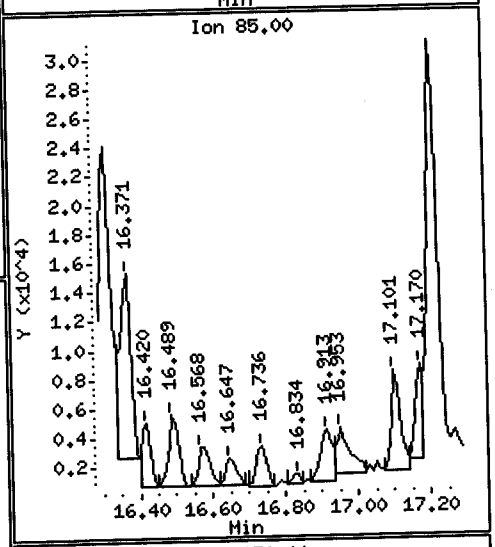
Concentration: 3.9633 UG/L

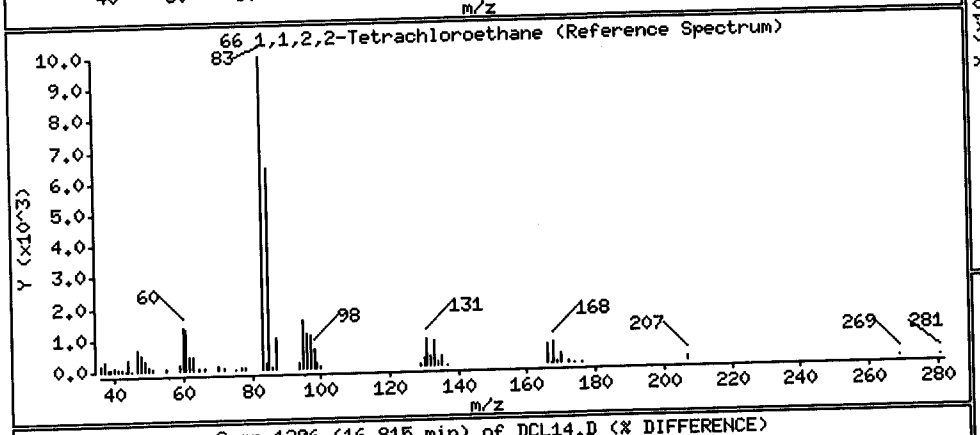
66 1,1,2,2-Tetrachloroethane

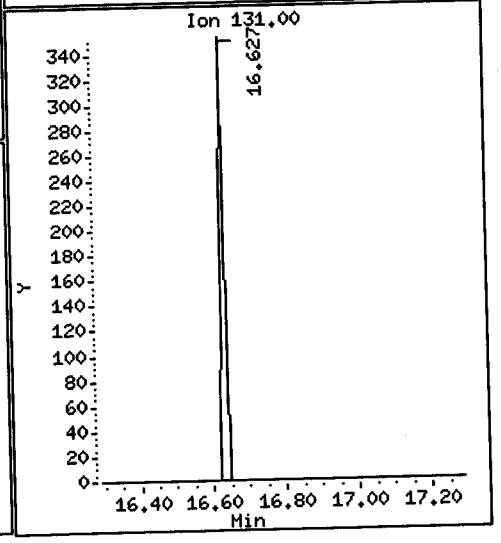


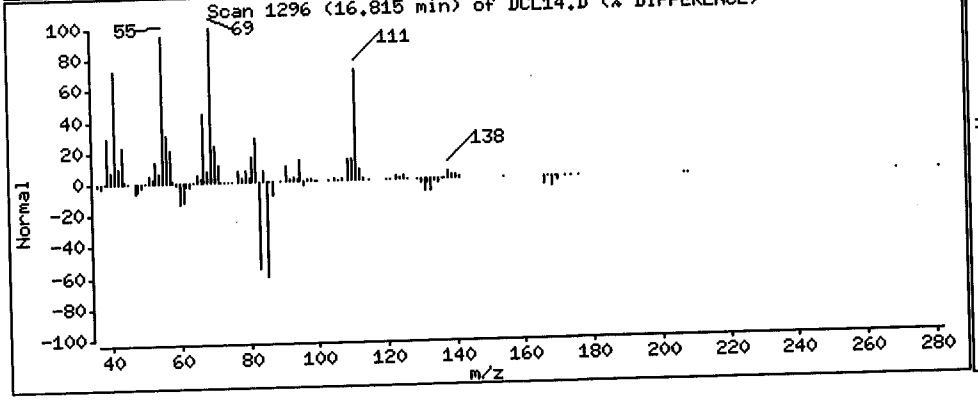












[Bromobenzene; 83 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

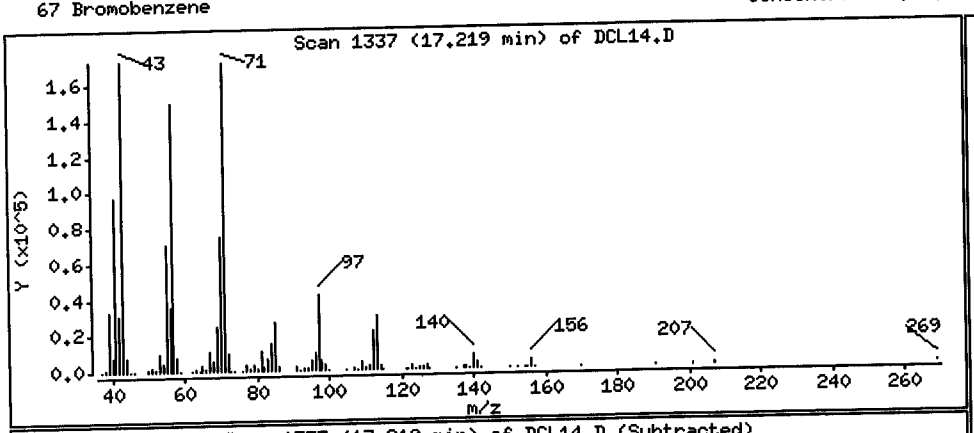
Operator: VOC

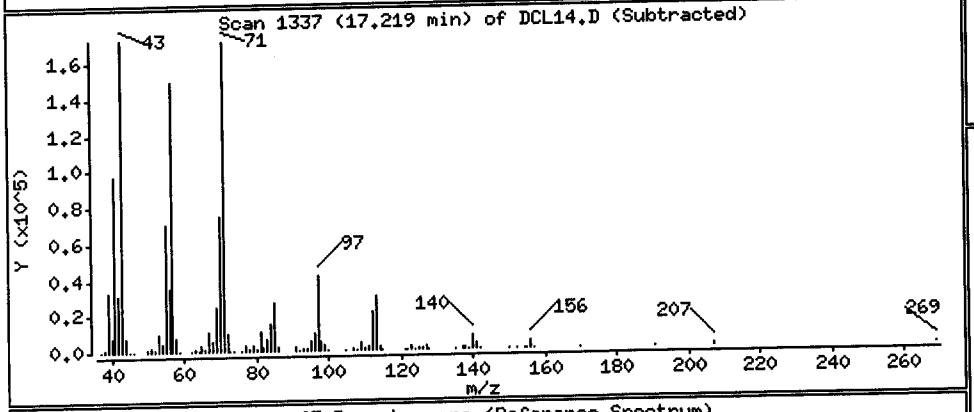
Column phase: RTx Volatiles

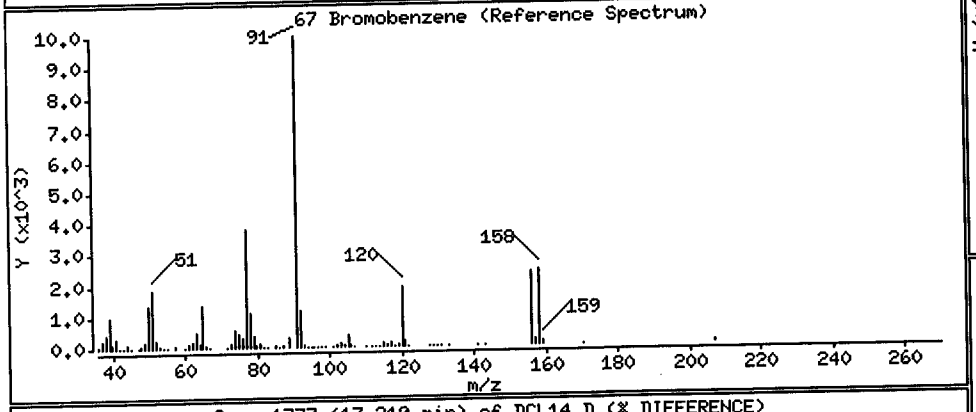
Column diameter: 0.32

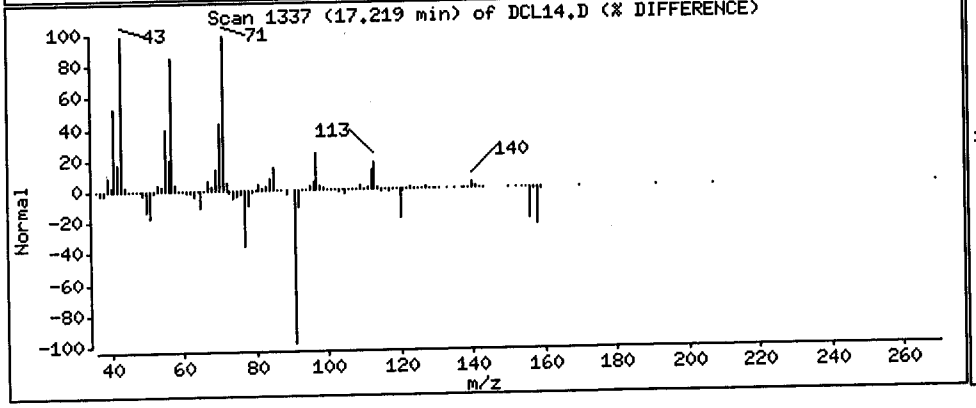
Concentration: 1.0008 UG/L

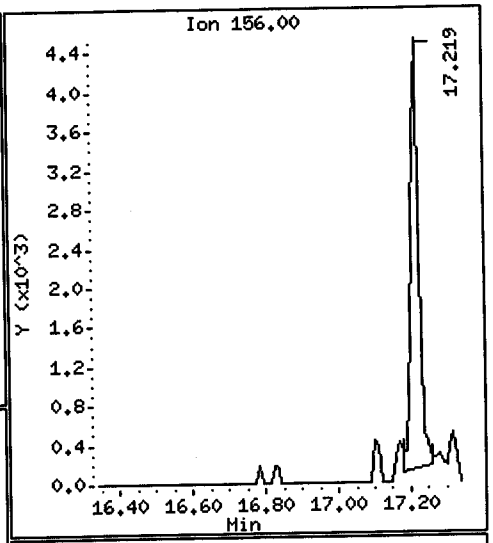
67 Bromobenzene

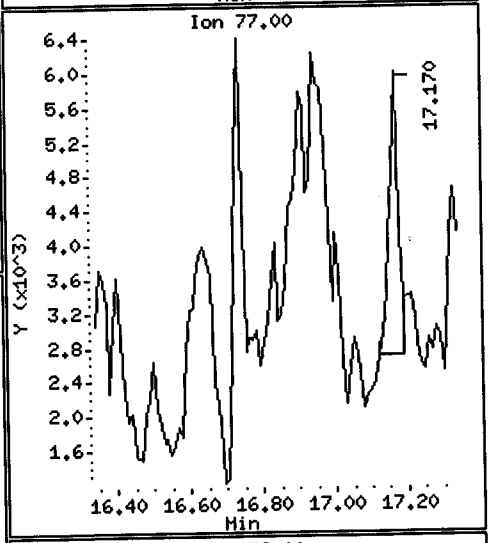


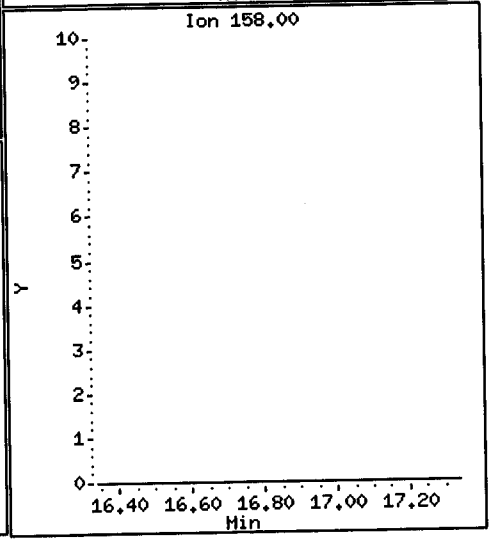












[Propylbenzene; 110 J; MI; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

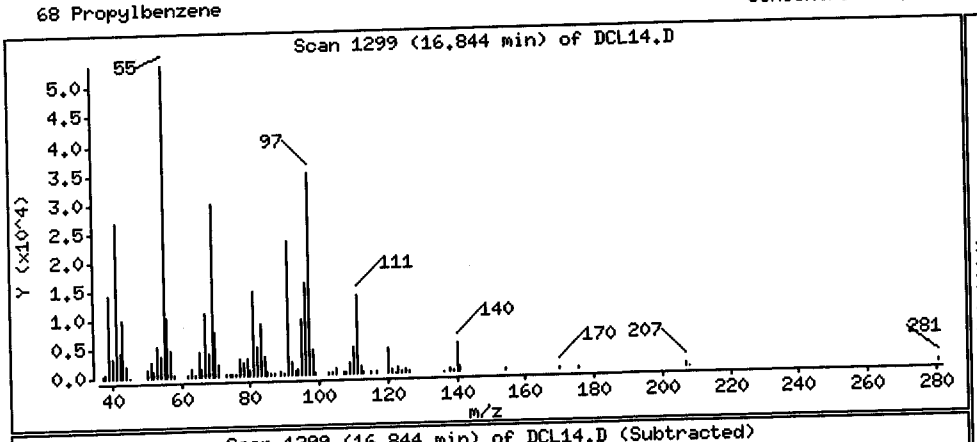
Instrument: MSVOA04.i

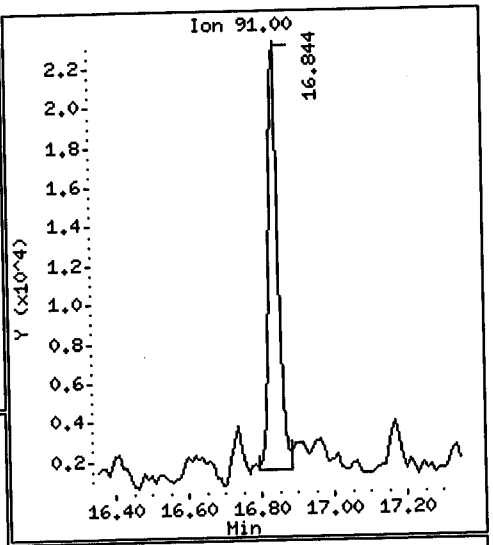
Operator: VOC

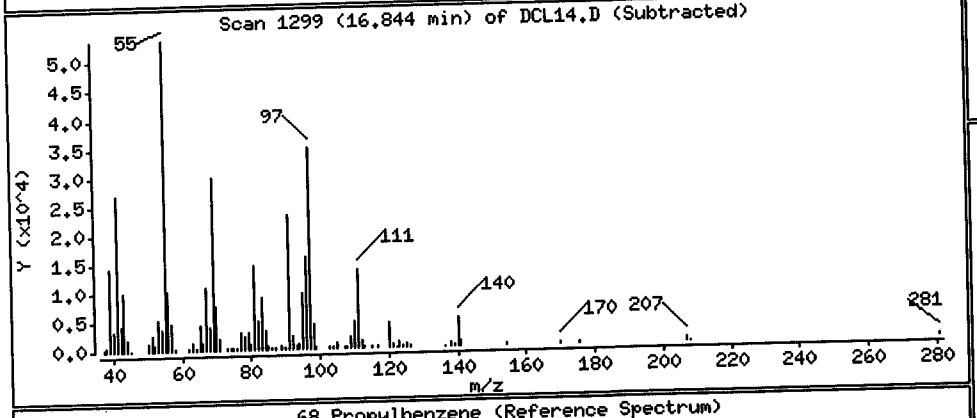
Column diameter: 0.32

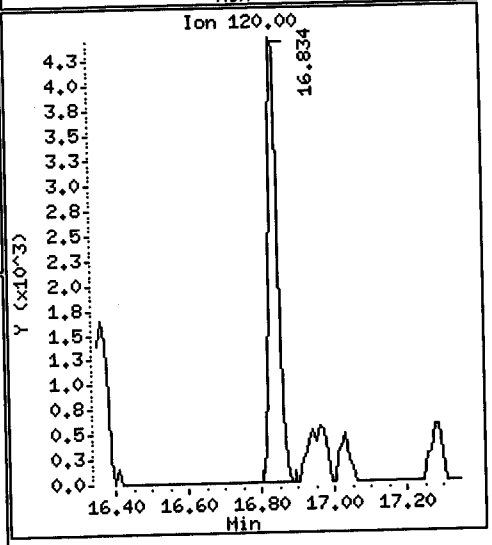
Concentration: 1.3373 UG/L

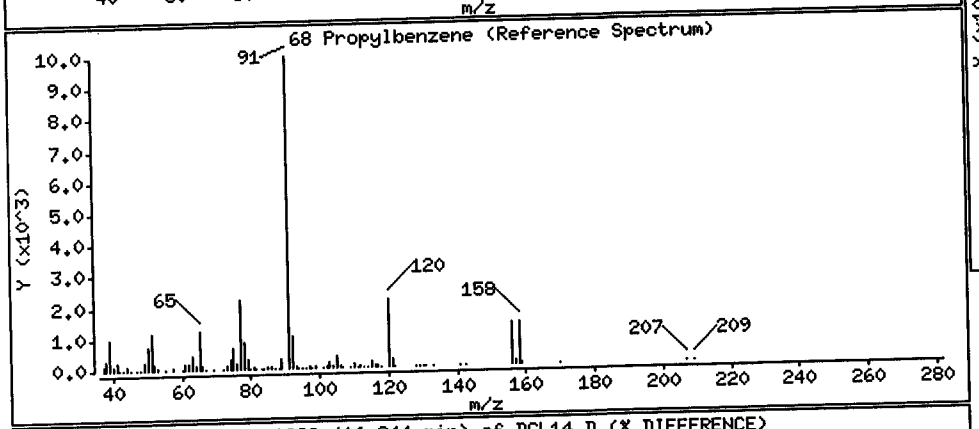
68 Propylbenzene

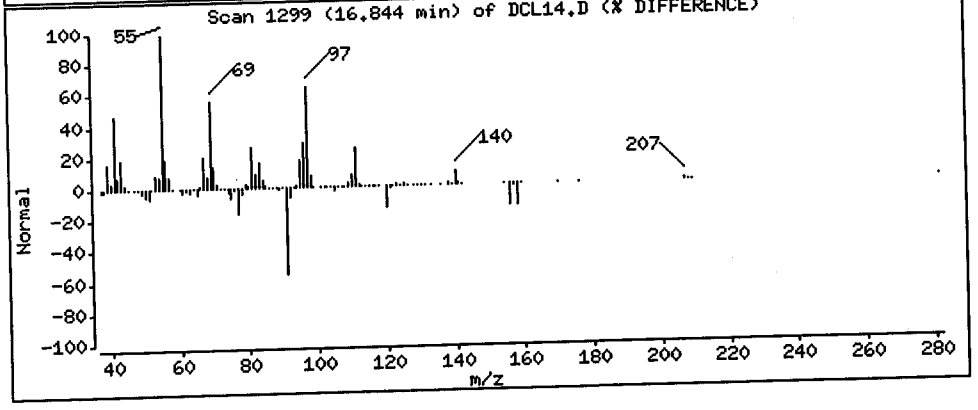












[Propylbenzene; before version]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

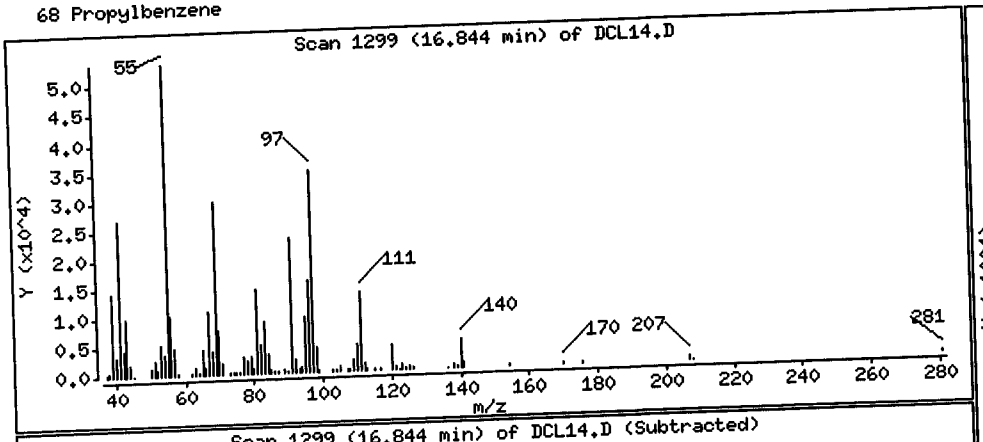
Instrument: MSVOA04.i

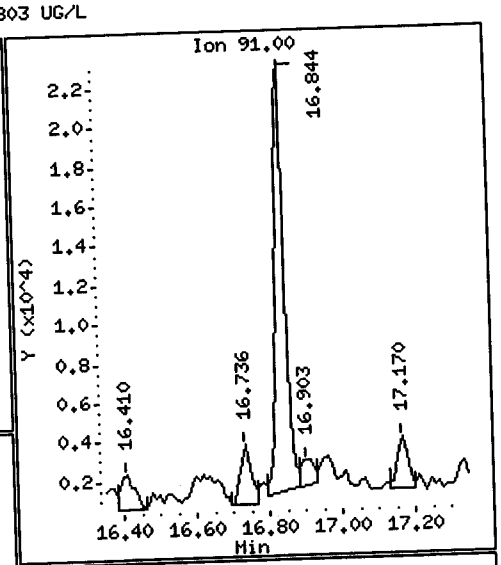
Operator: VOC

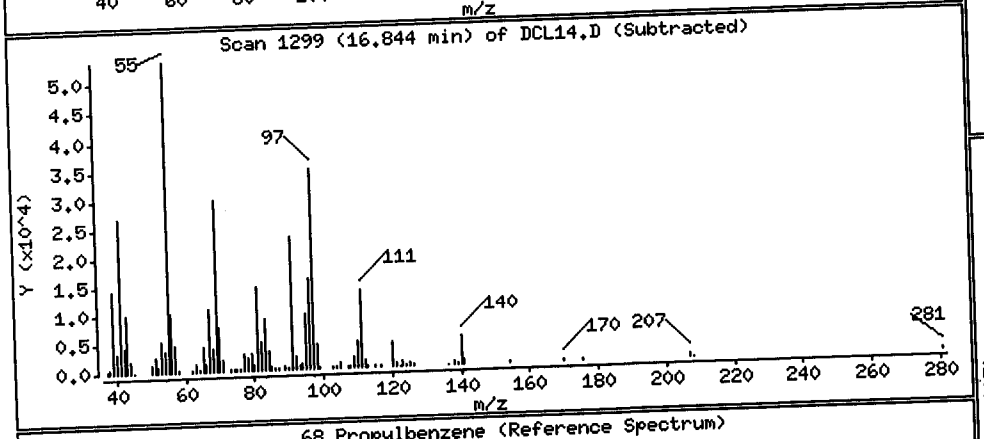
Column diameter: 0.32

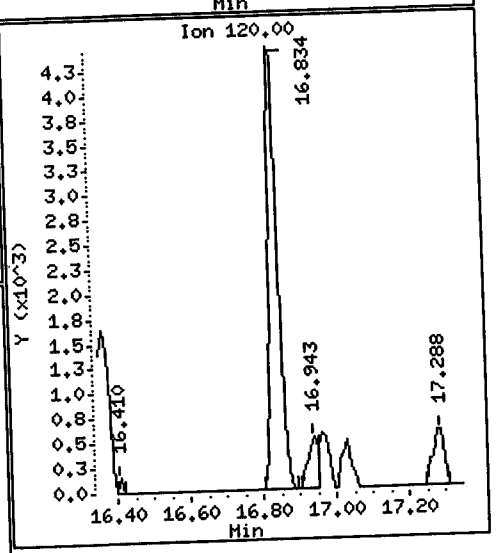
Concentration: 1.3803 UG/L

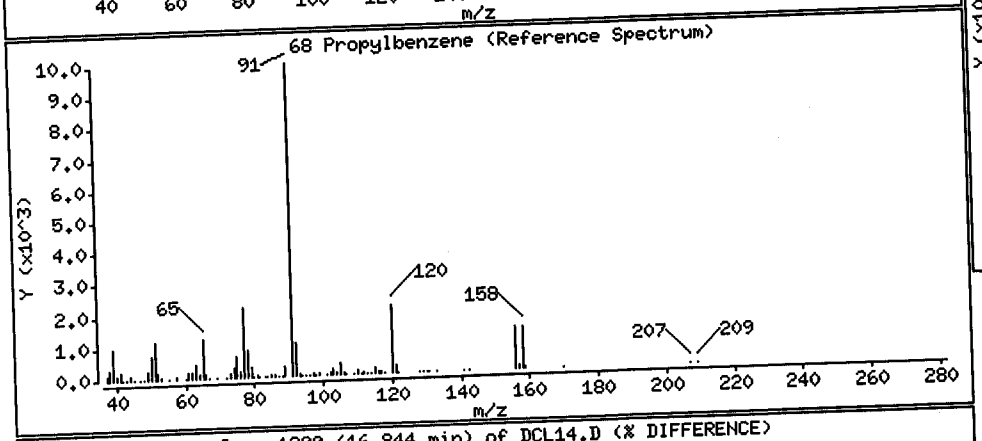
68 Propylbenzene

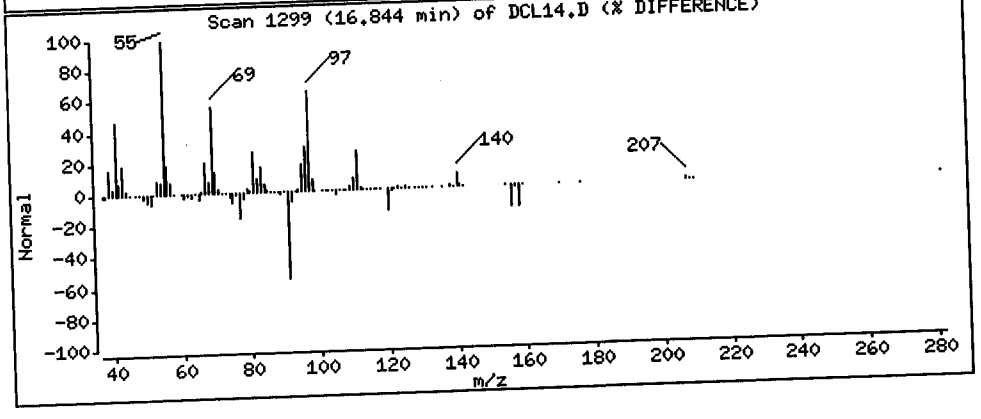












[2-Chlorotoluene; 11 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Operator: VOC

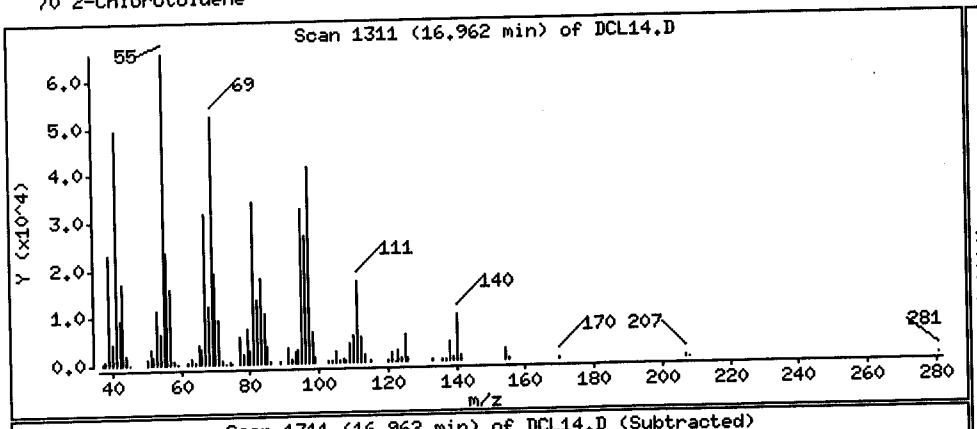
Purge Volume: 5.0

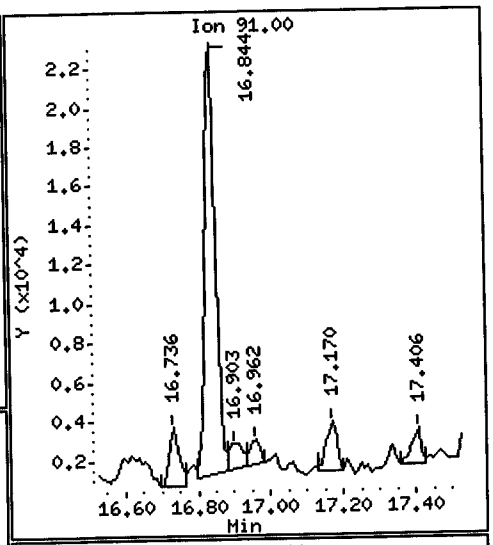
Column diameter: 0.32

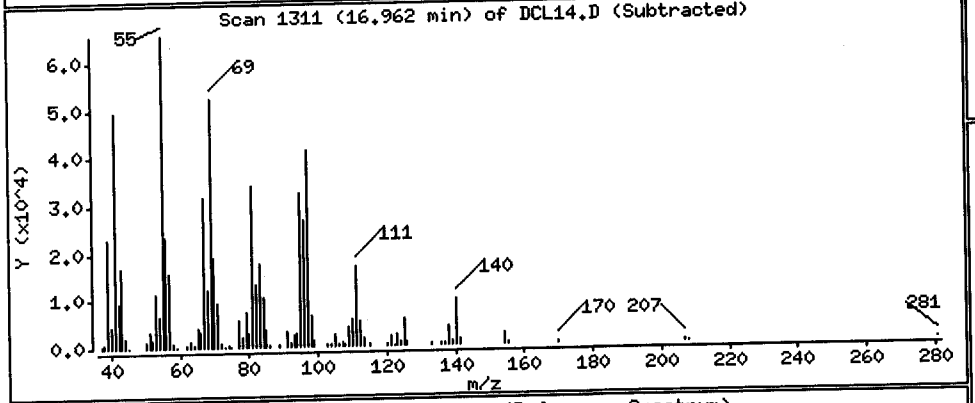
Column phase: RTx Volatiles

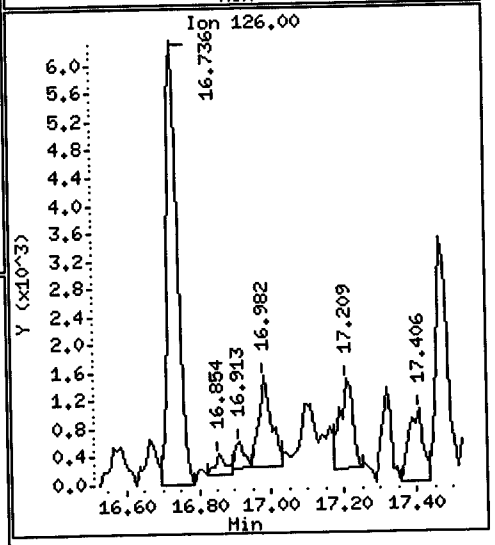
Concentration: 0.1308 UG/L

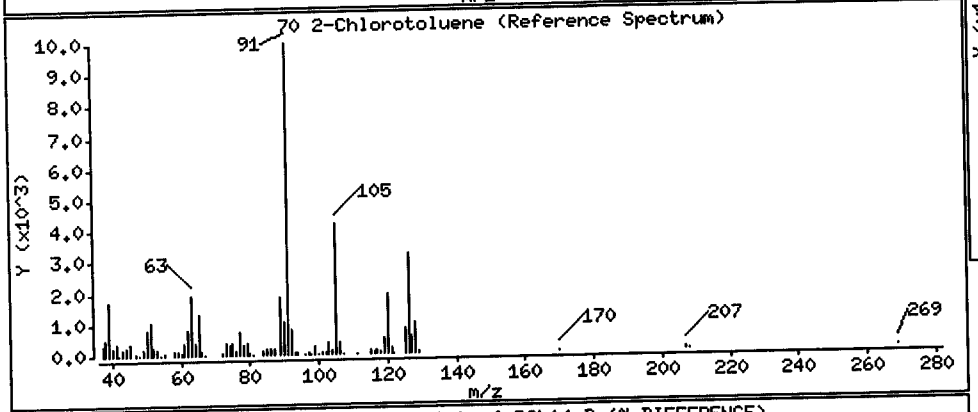
70 2-Chlorotoluene

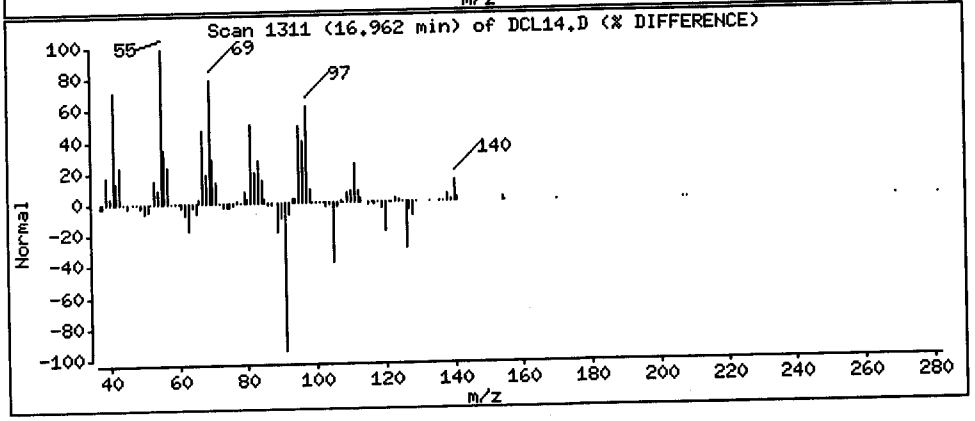












[1,3,5-Trimethylbenzene; 9.8 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Operator: VOC

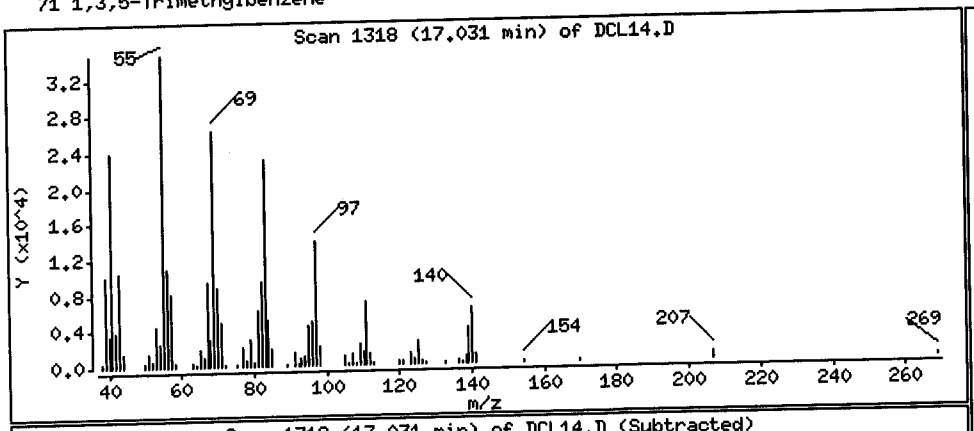
Purge Volume: 5.0

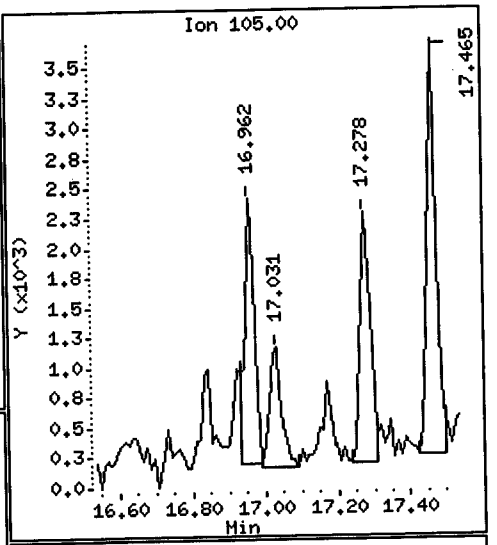
Column diameter: 0.32

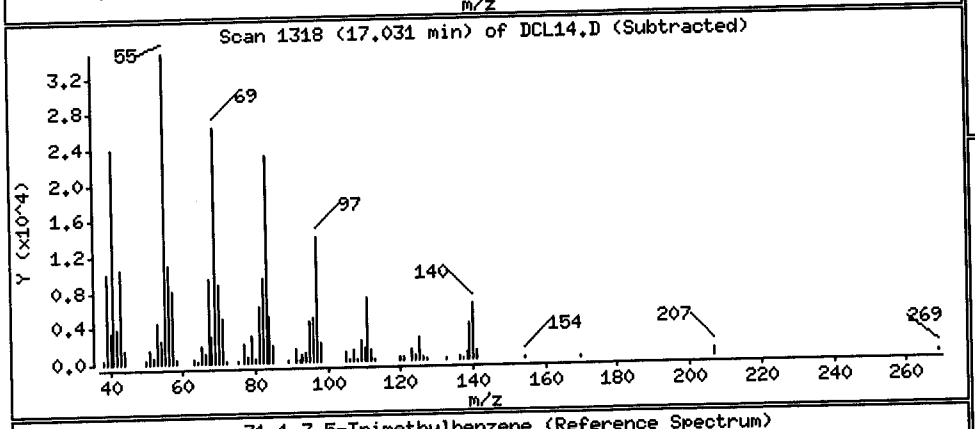
Column phase: RTx Volatiles

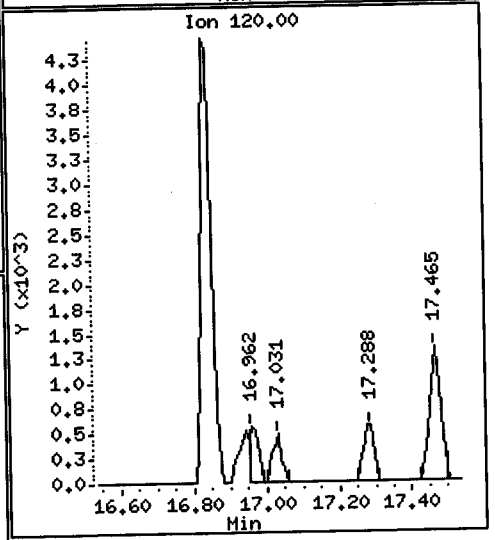
Concentration: 0.1179 UG/L

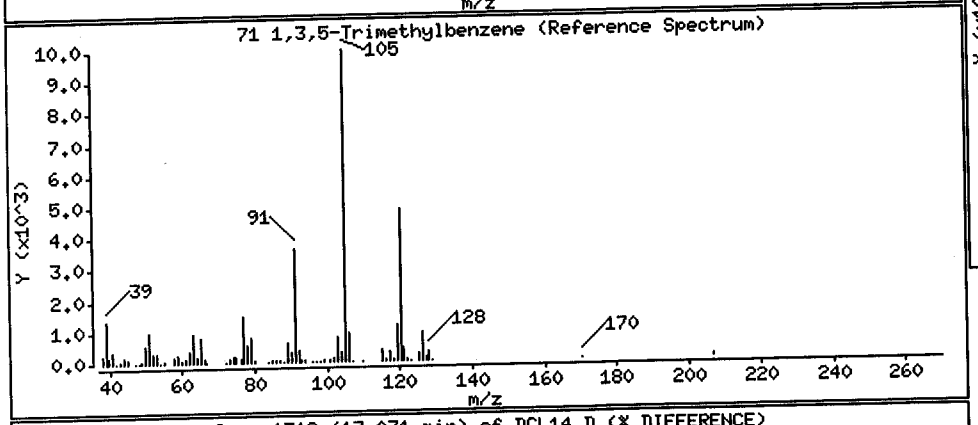
71 1,3,5-Trimethylbenzene

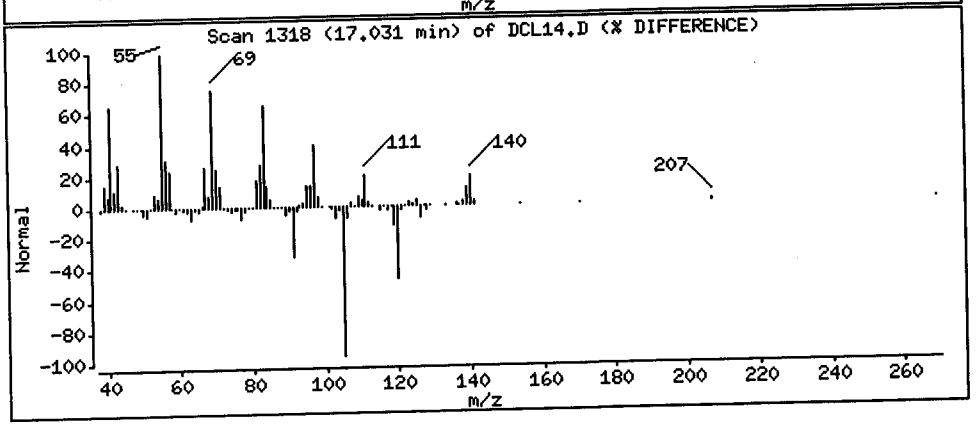












[4-Chlorotoluene; 22 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

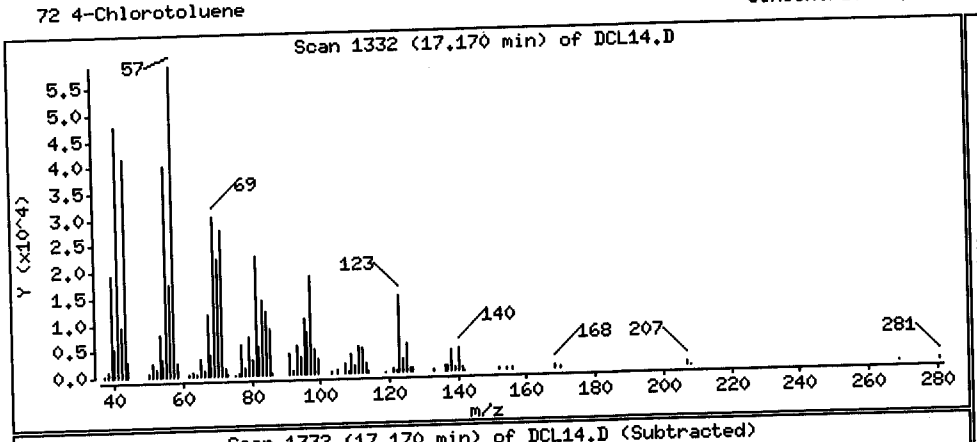
Instrument: MSVOA04.i

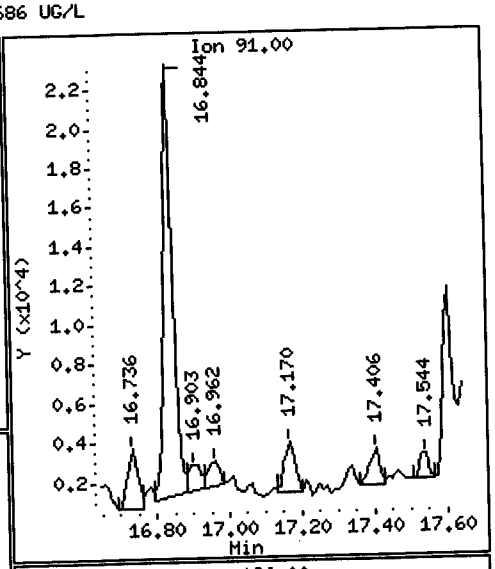
Operator: VOC

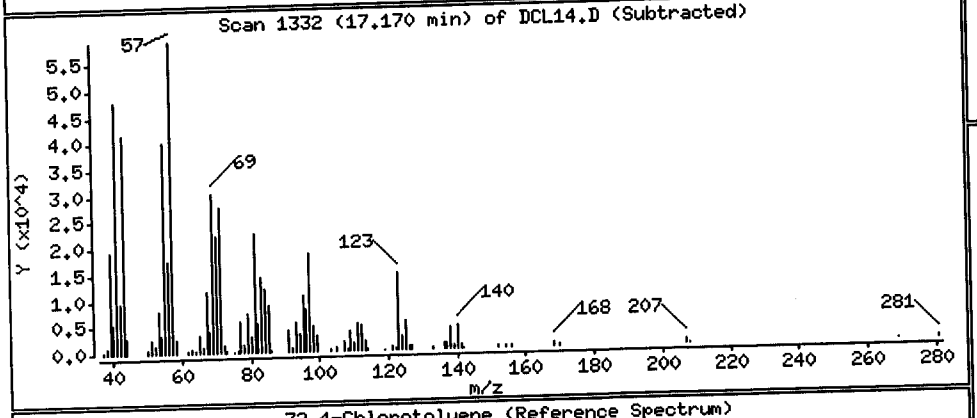
Column diameter: 0.32

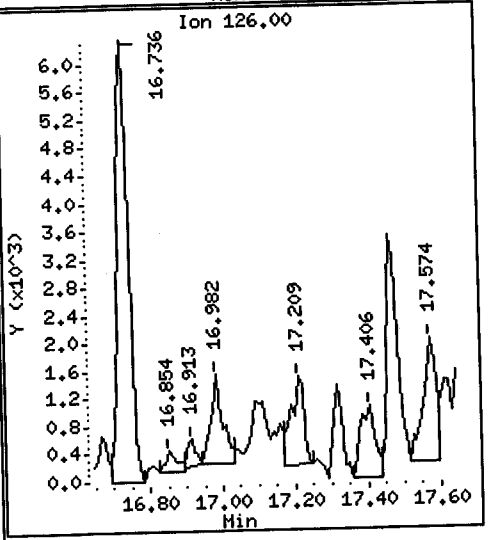
Concentration: 0.2686 UG/L

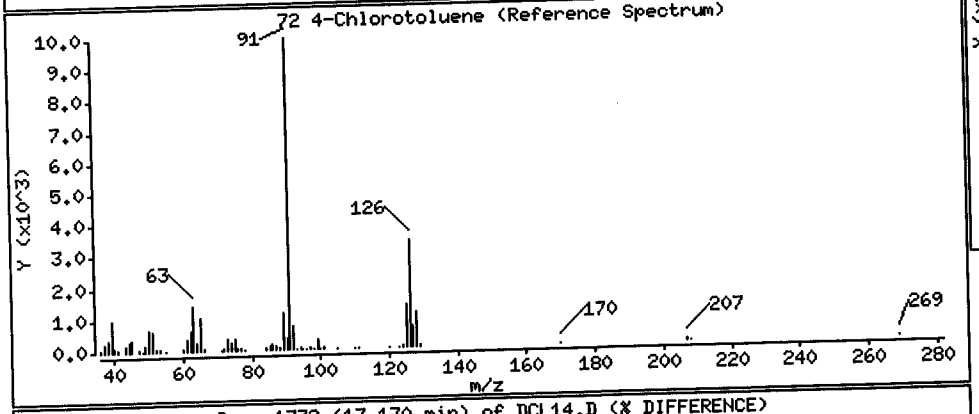
72 4-Chlorotoluene

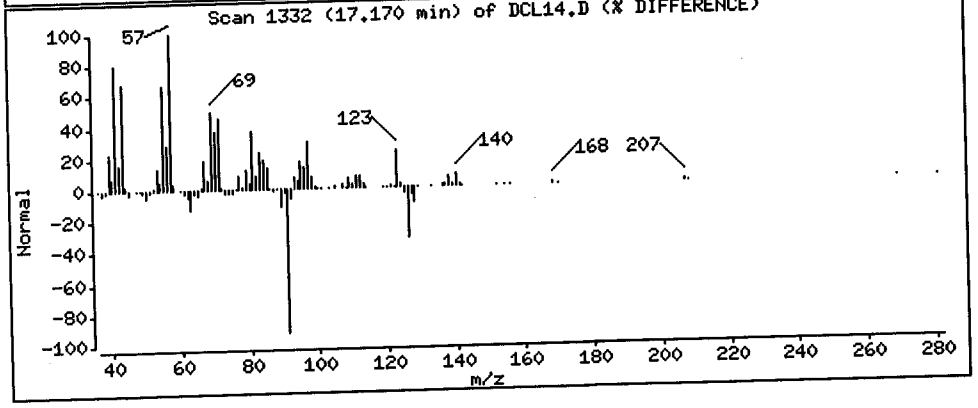












[tert-Butylbenzene; 9.5 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

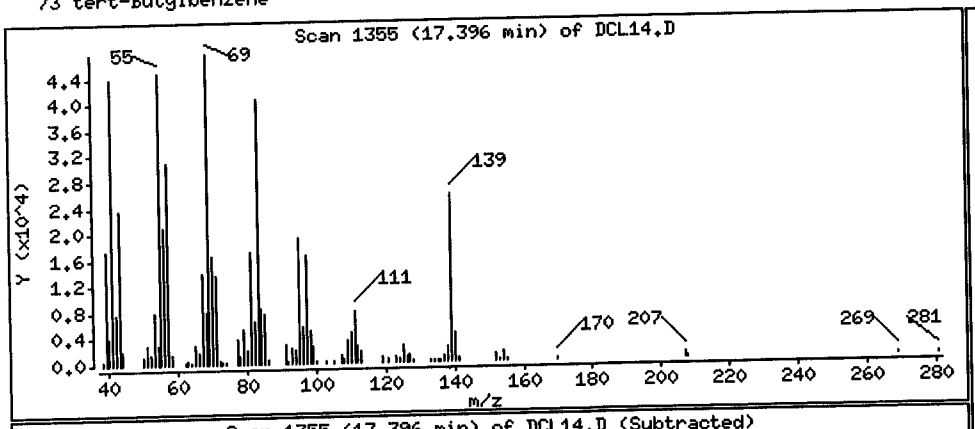
Operator: VOC

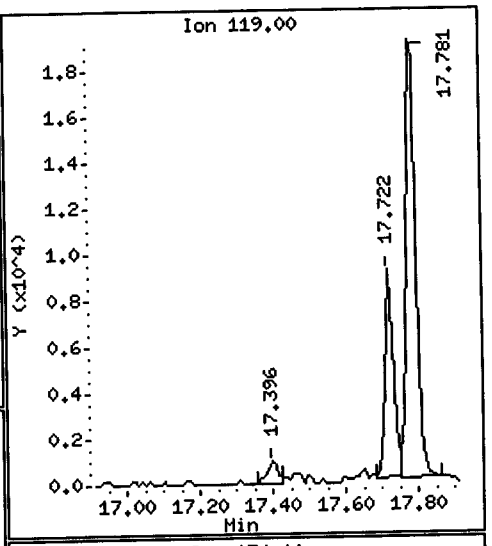
Column phase: RTx Volatiles

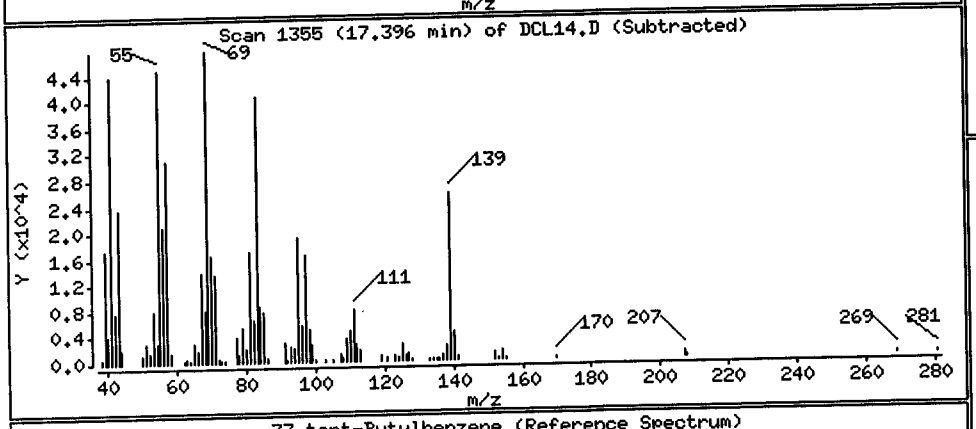
Column diameter: 0.32

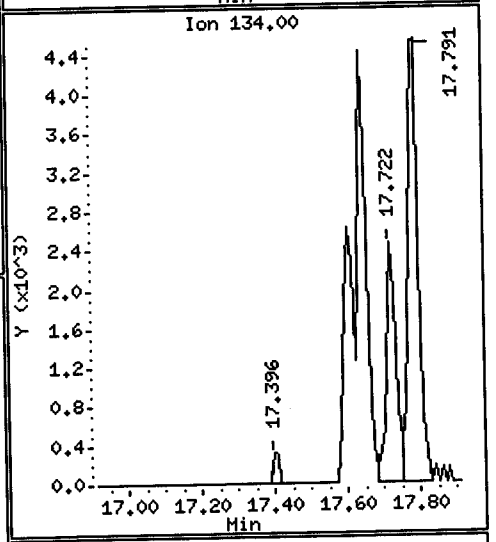
Concentration: 0.1142 UG/L

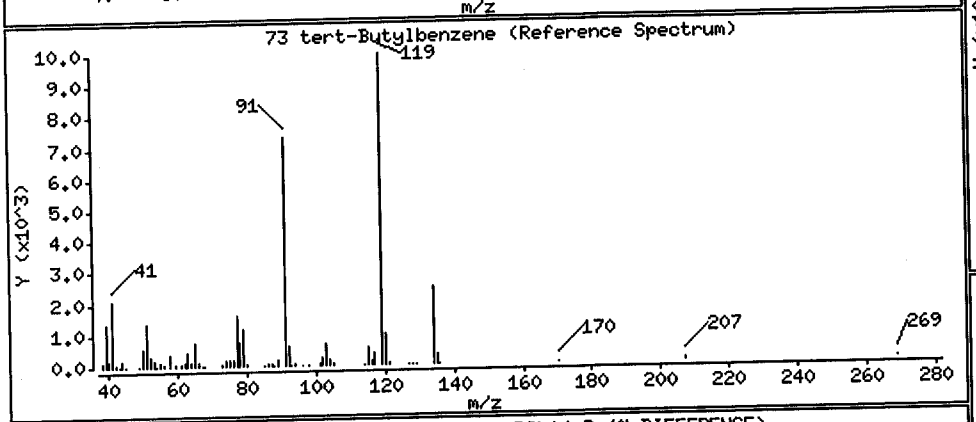
73 tert-Butylbenzene

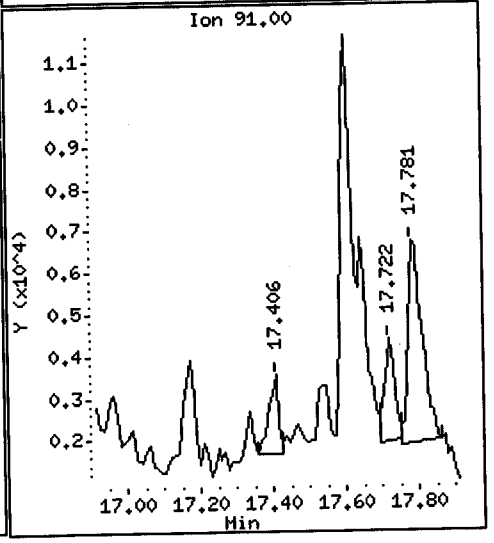


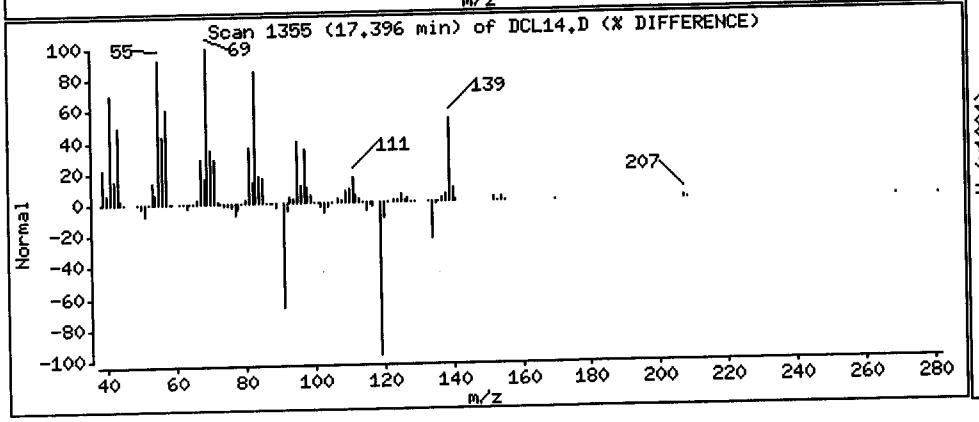












[1,2,4-Trimethylbenzene; 24 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Operator: VOC

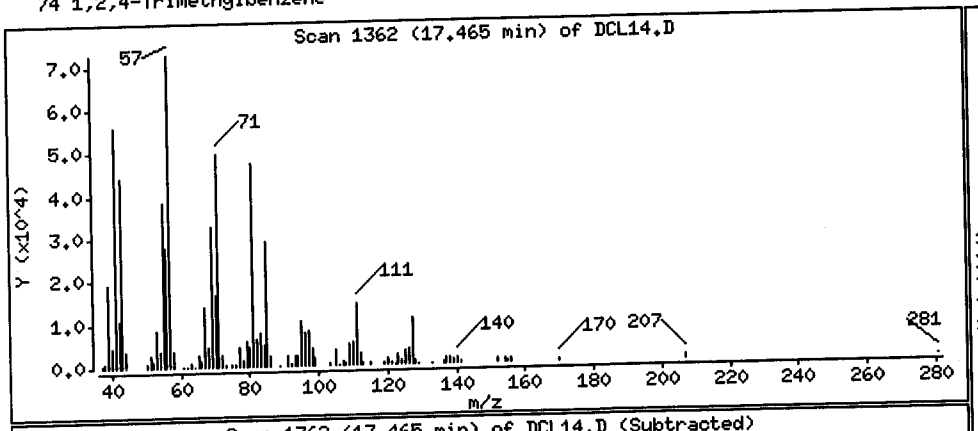
Purge Volume: 5.0

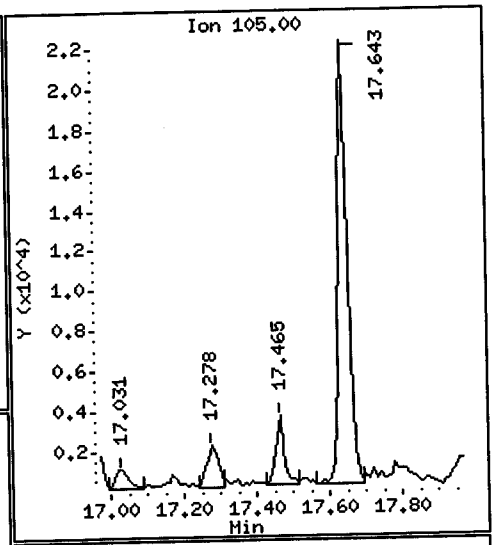
Column diameter: 0.32

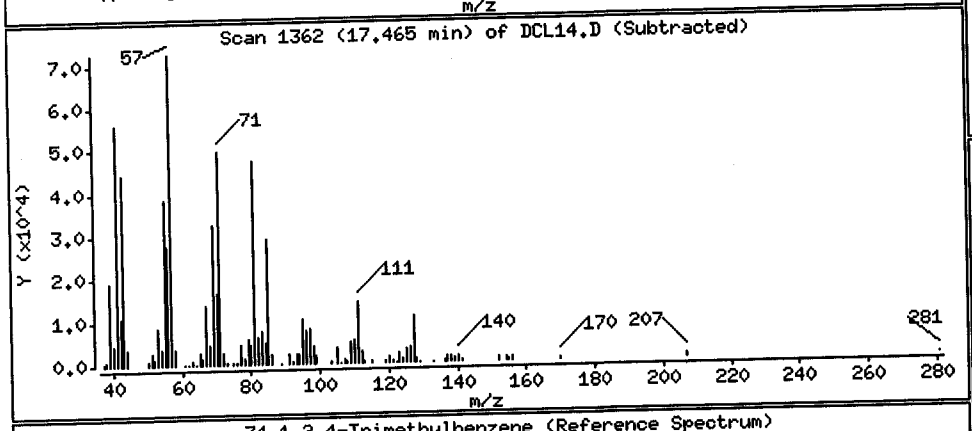
Column phase: RTx Volatiles

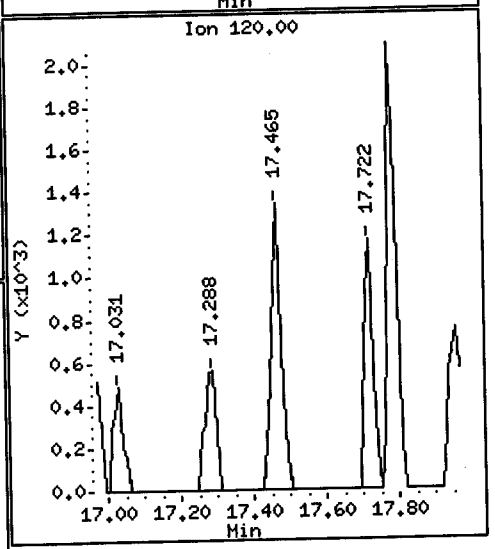
Concentration: 0.2840 UG/L

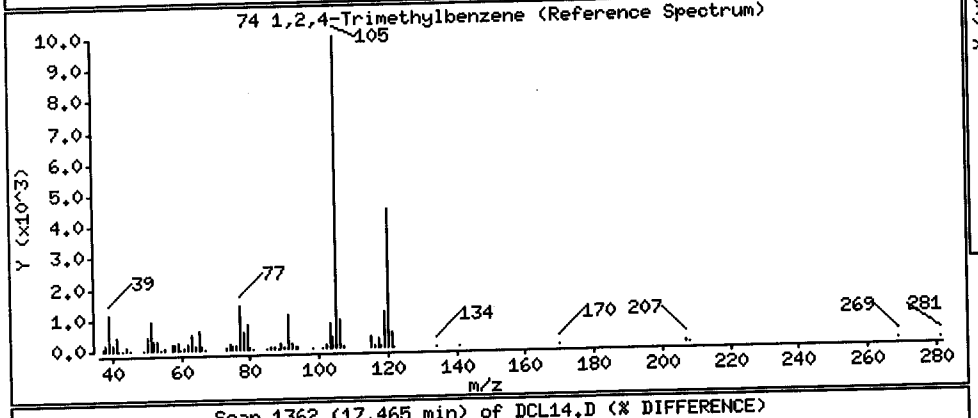
74 1,2,4-Trimethylbenzene

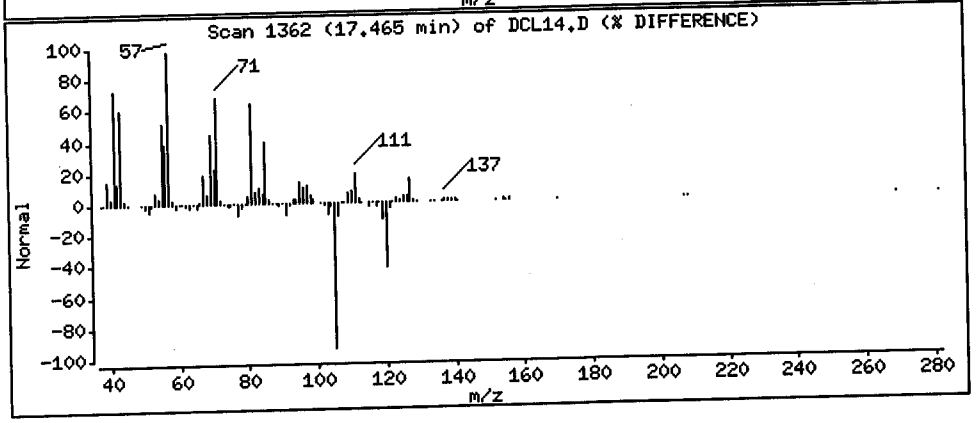












[sec-Butylbenzene; 120 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

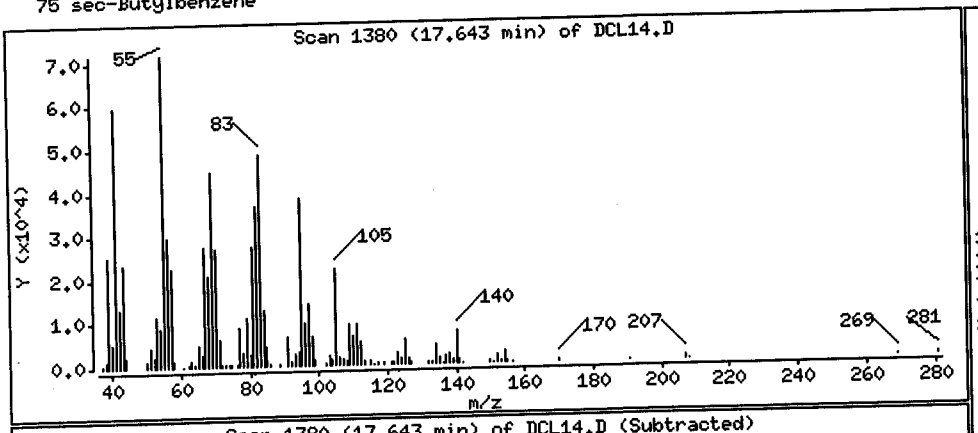
Instrument: MSVOA04.i

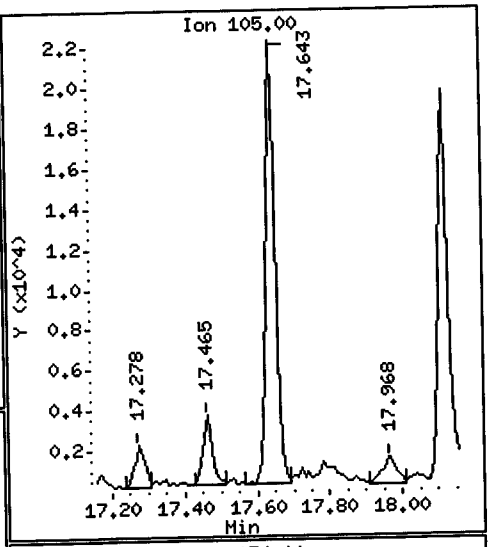
Operator: VOC

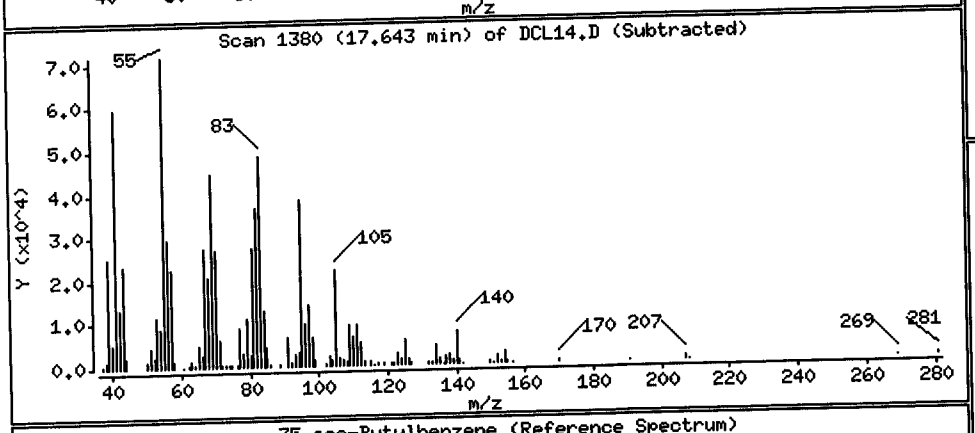
Column diameter: 0.32

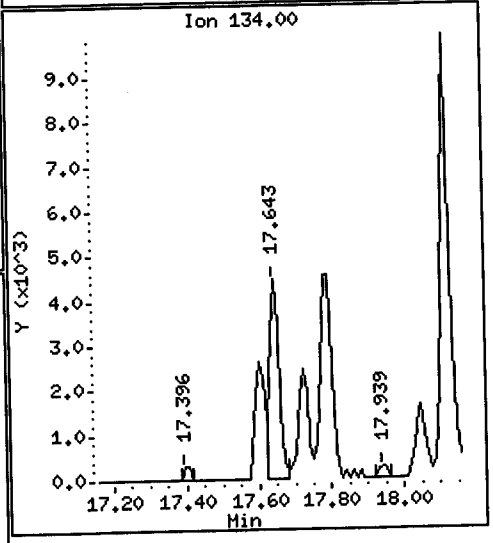
Concentration: 1.4575 UG/L

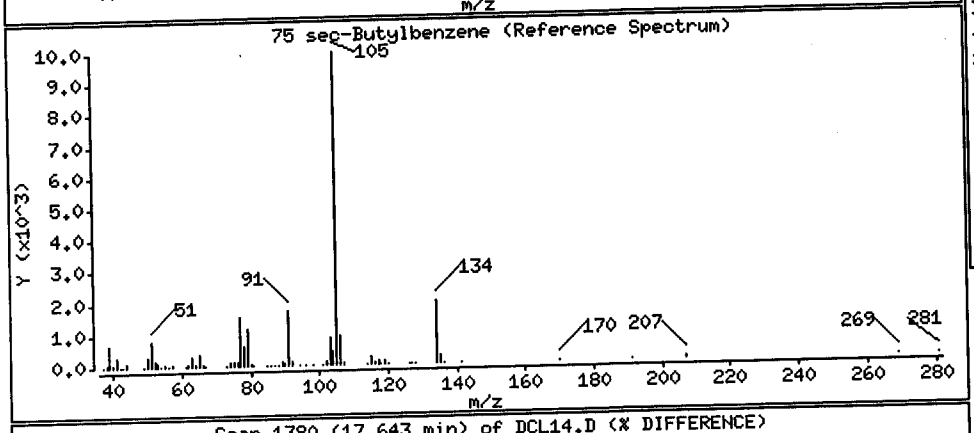
75 sec-Butylbenzene

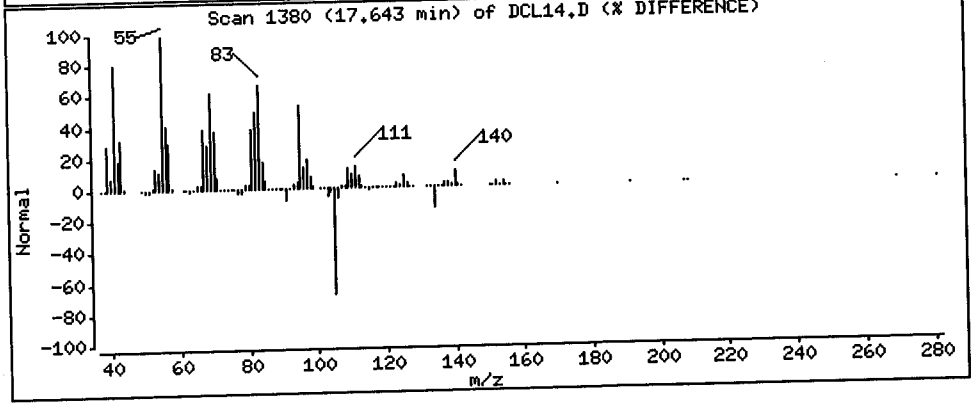












[para-Isopropyl Toluene; 140 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

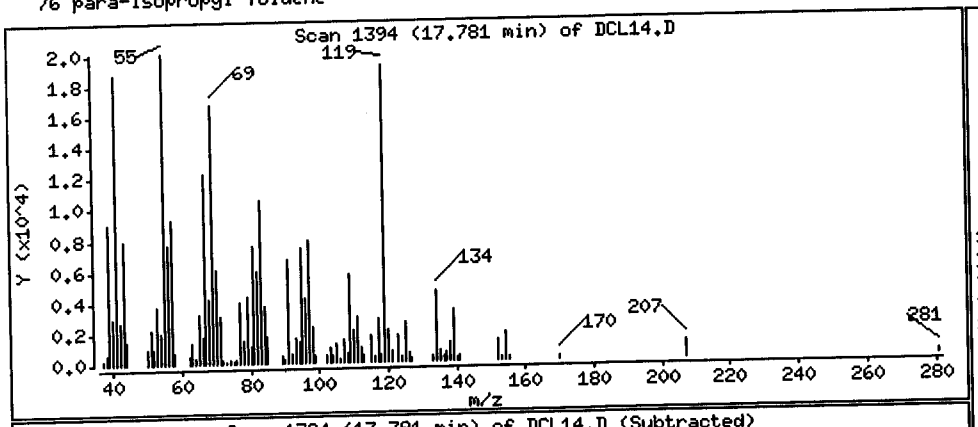
Instrument: MSVOA04.i

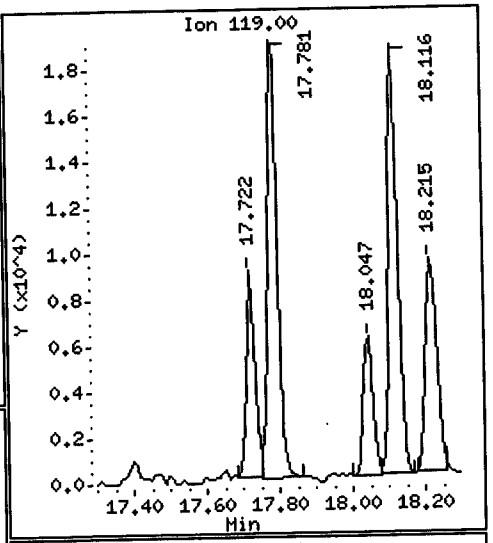
Operator: VOC

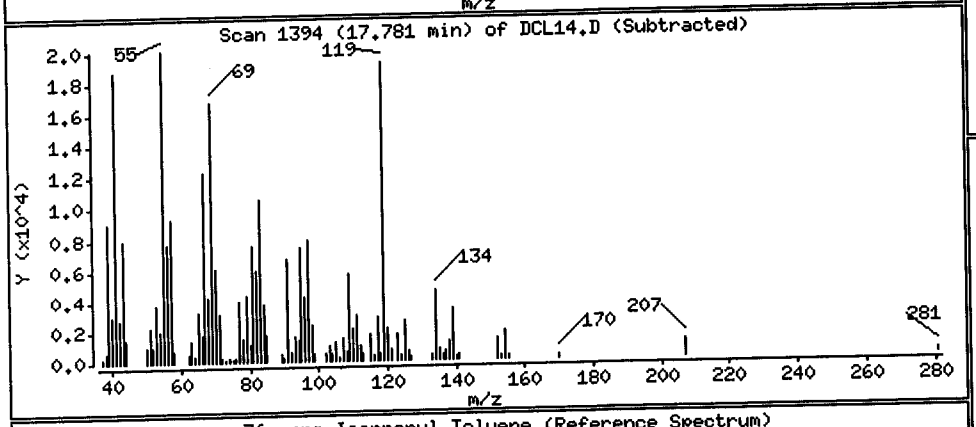
Column diameter: 0.32

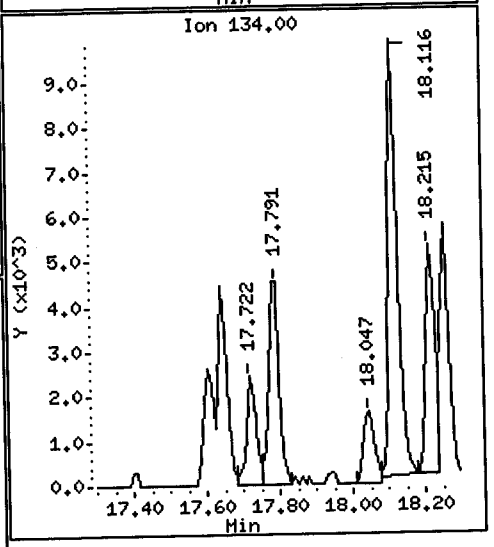
Concentration: 1.6311 UG/L

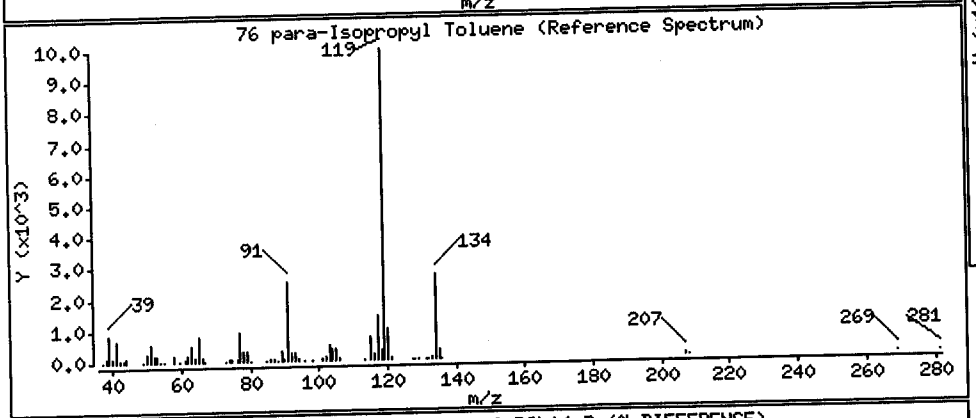
76 para-Isopropyl Toluene

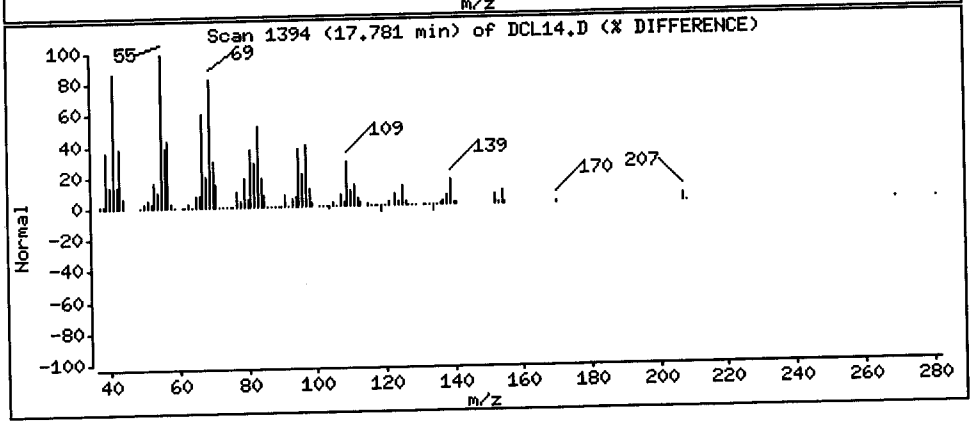












[n-Butylbenzene; 210 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

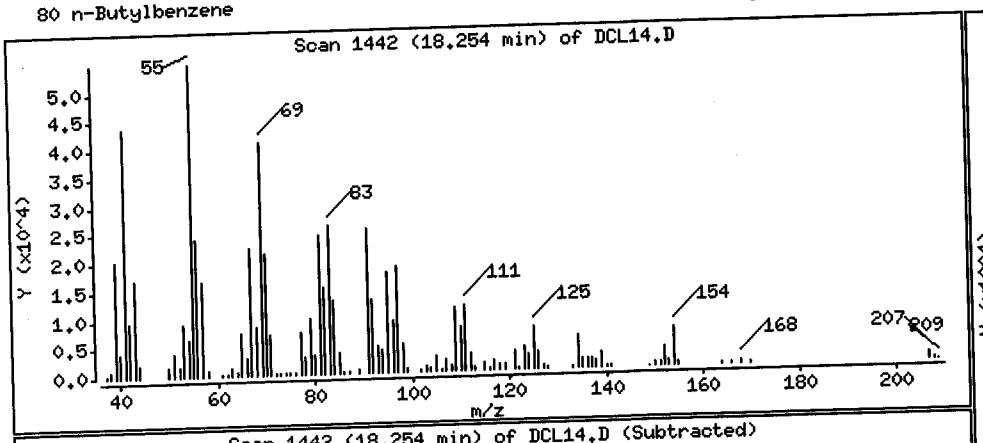
Instrument: MSVOA04.i

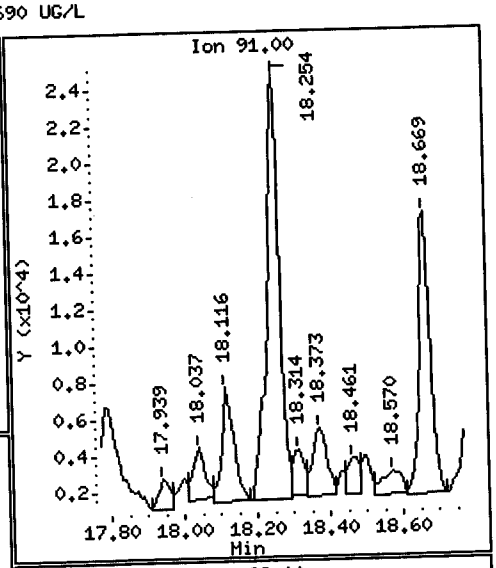
Operator: VOC

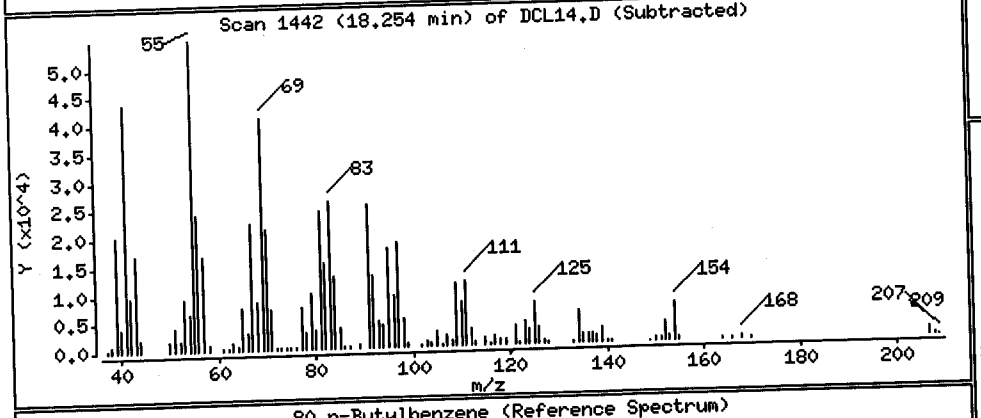
Column diameter: 0.32

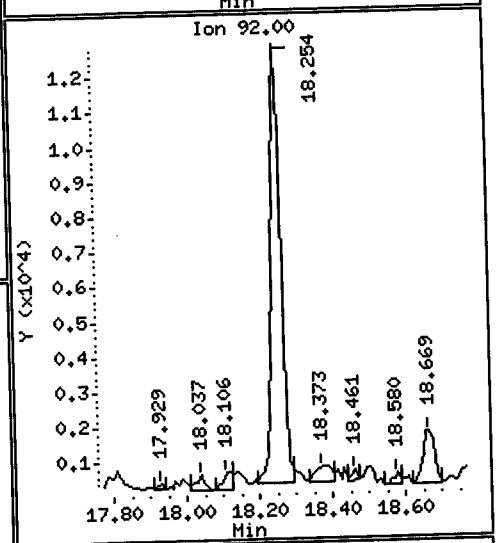
Concentration: 2.4690 UG/L

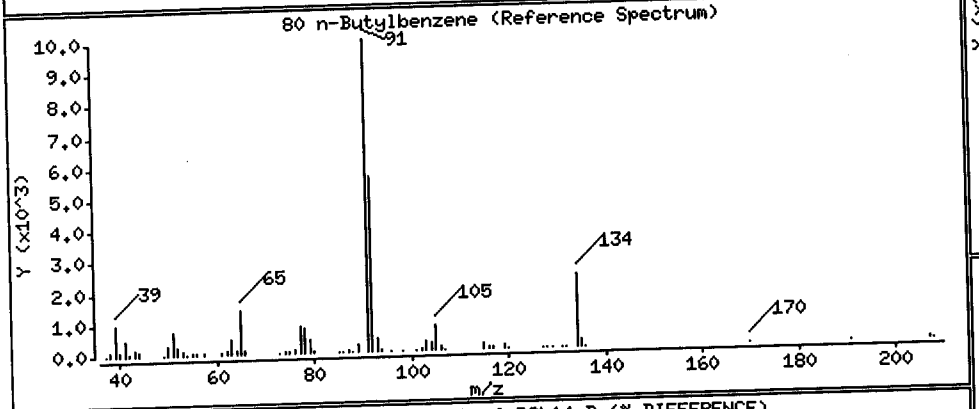
80 n-Butylbenzene

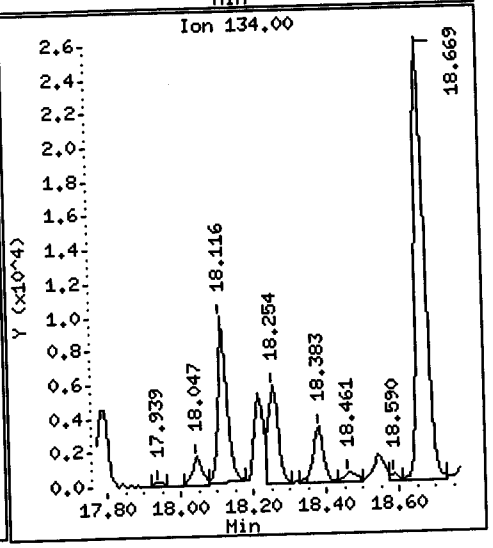


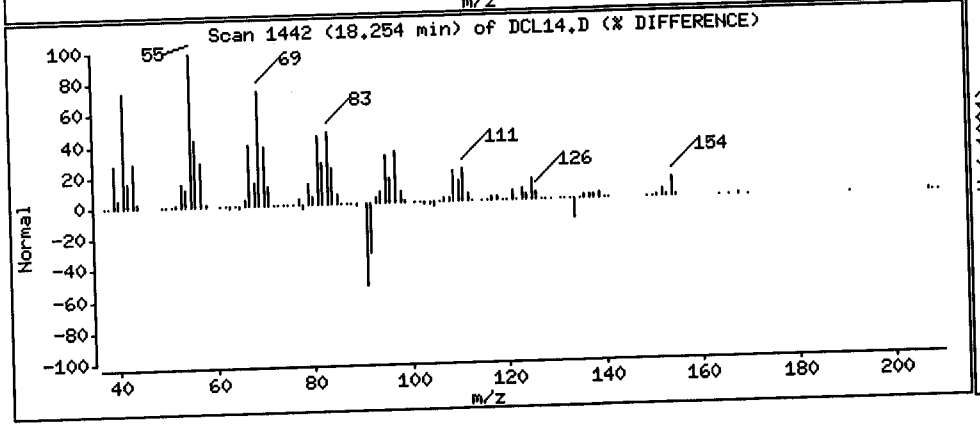












[1,2-Dibromo-3-Chloropropane; 39 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

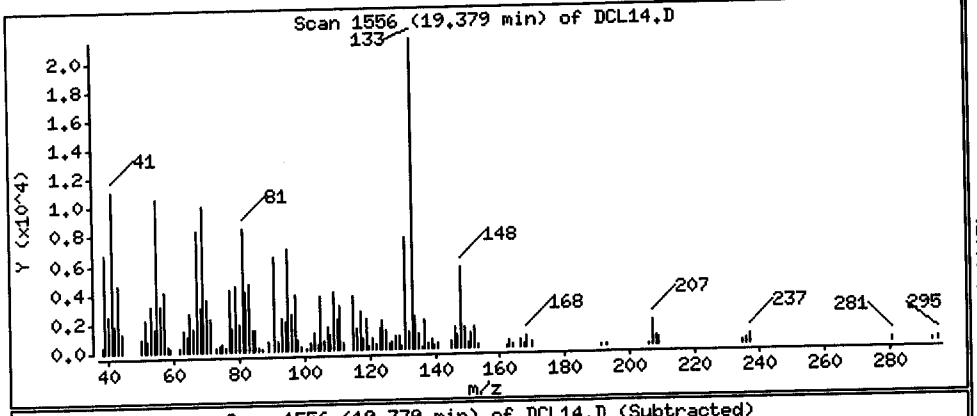
Instrument: MSVOA04.i

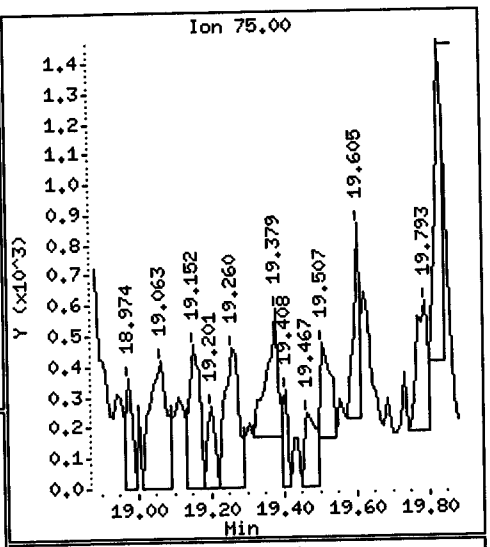
Operator: VOC

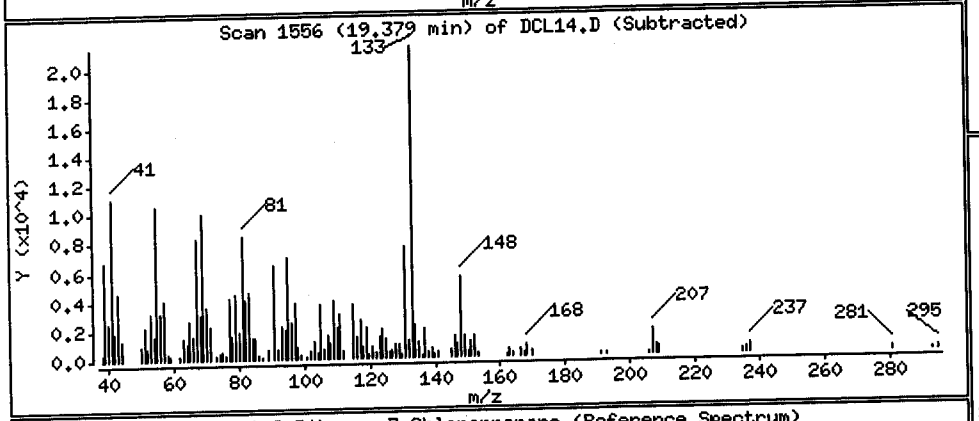
Column diameter: 0.32

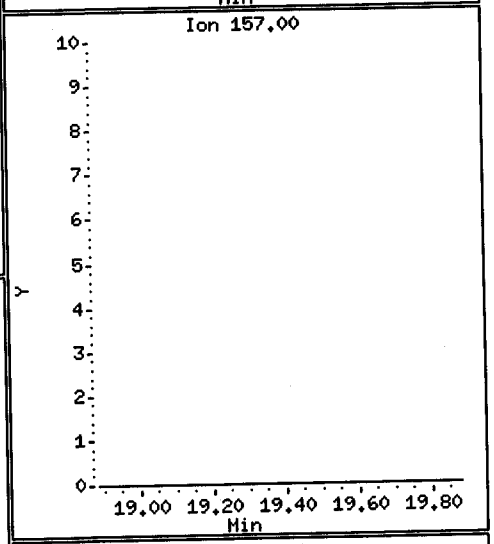
82 1,2-Dibromo-3-Chloropropane

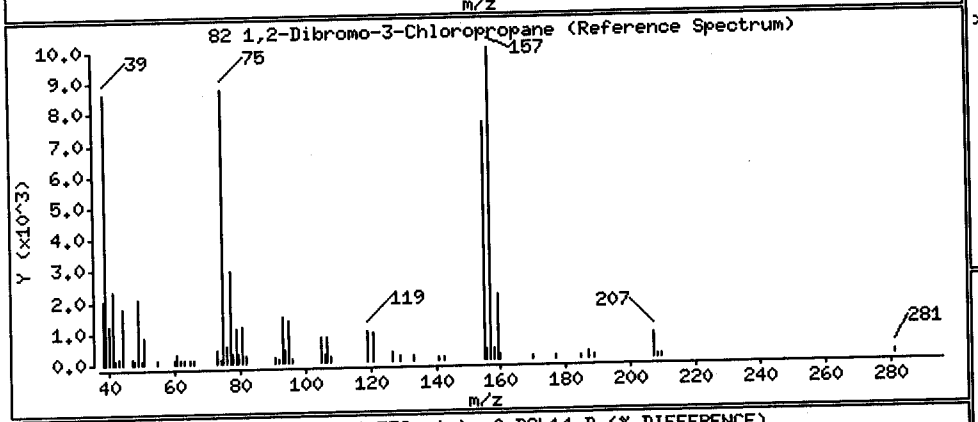
Concentration: 0.4662 UG/L

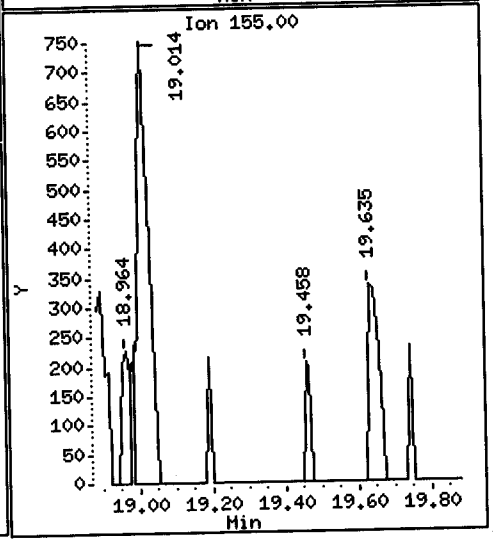


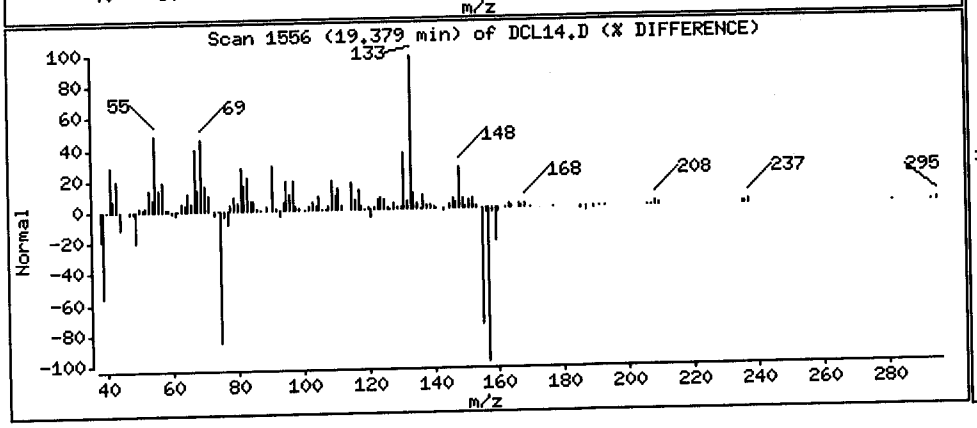












[1,2,4-Trichlorobenzene; 10 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

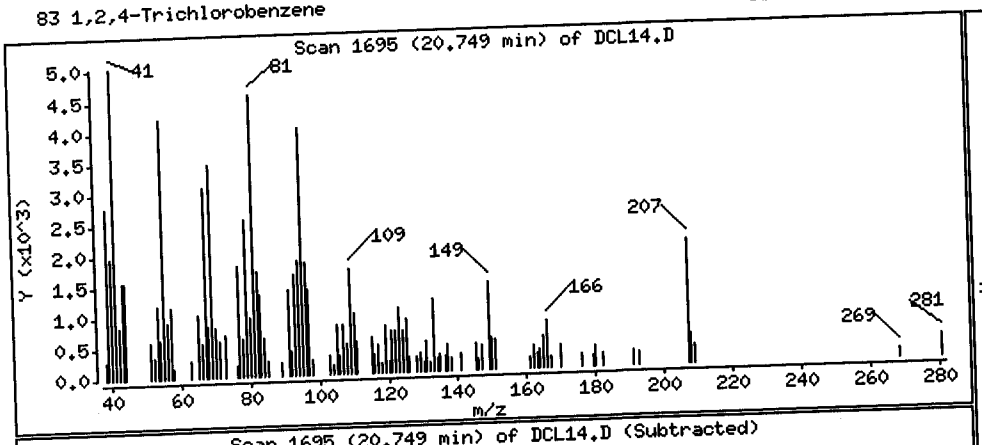
Instrument: MSVOA04.i

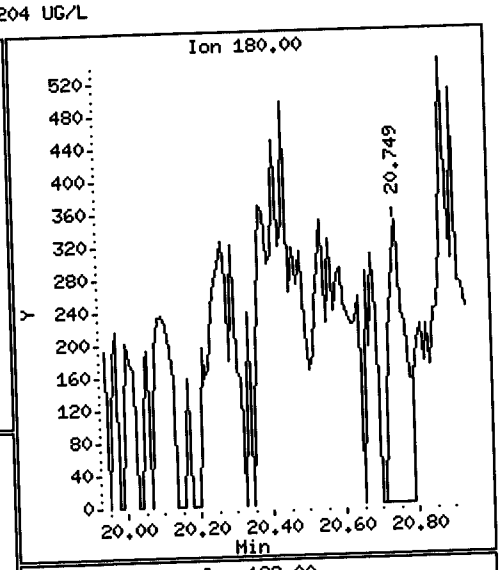
Operator: VOC

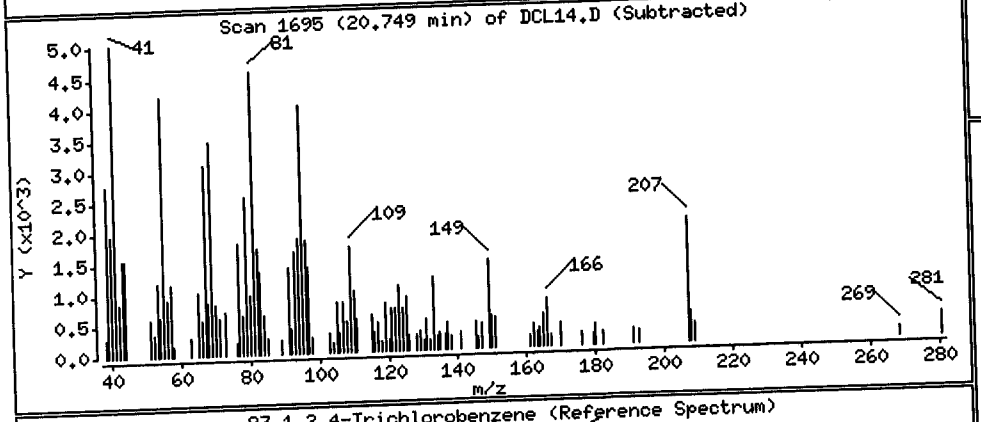
Column diameter: 0.32

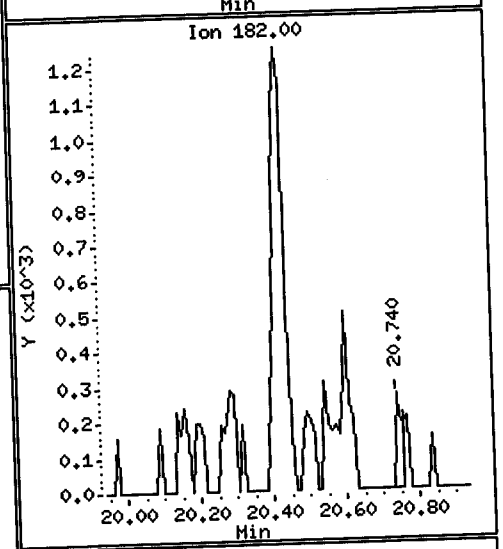
Concentration: 0.1204 UG/L

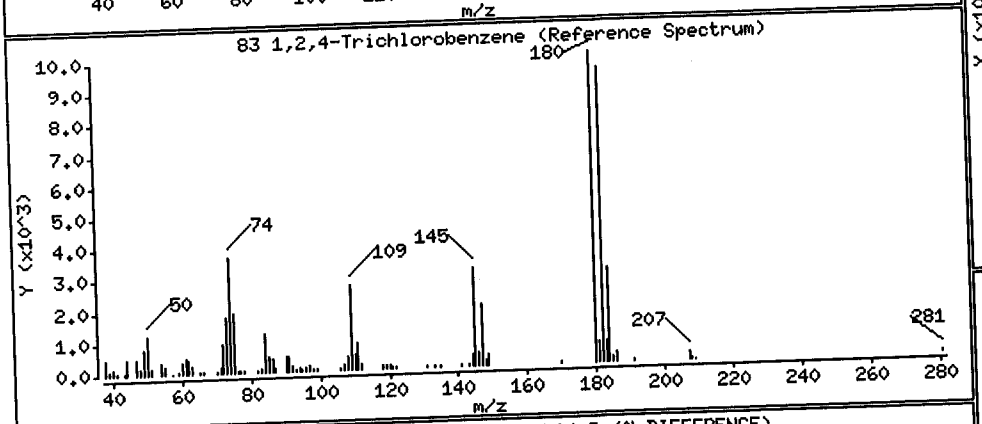
83 1,2,4-Trichlorobenzene

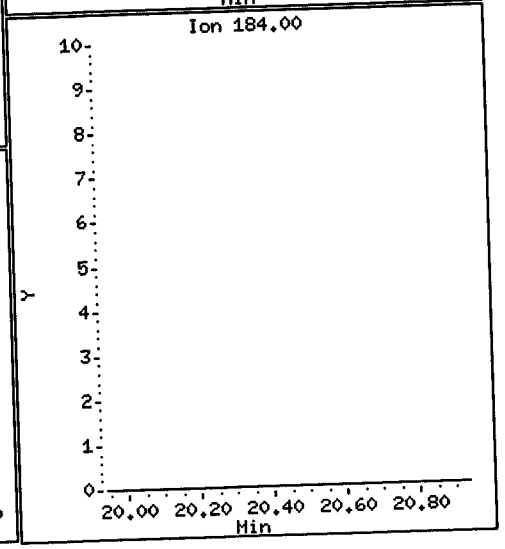


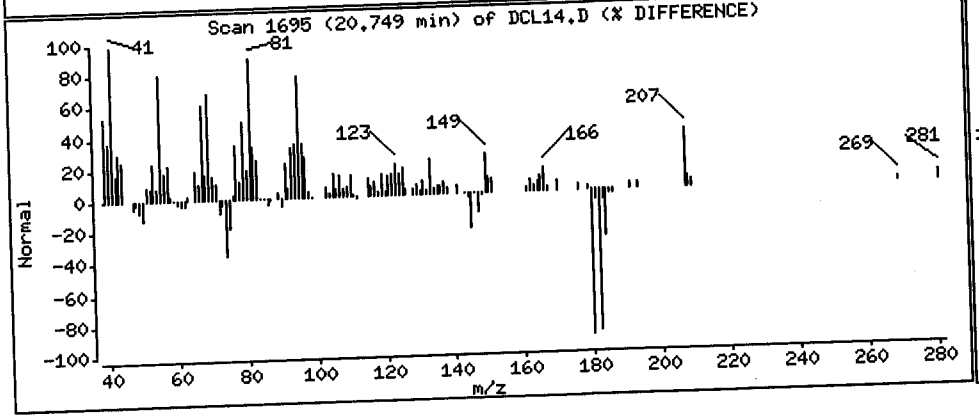












[Naphthalene; 69 J; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

Column phase: RTx Volatiles

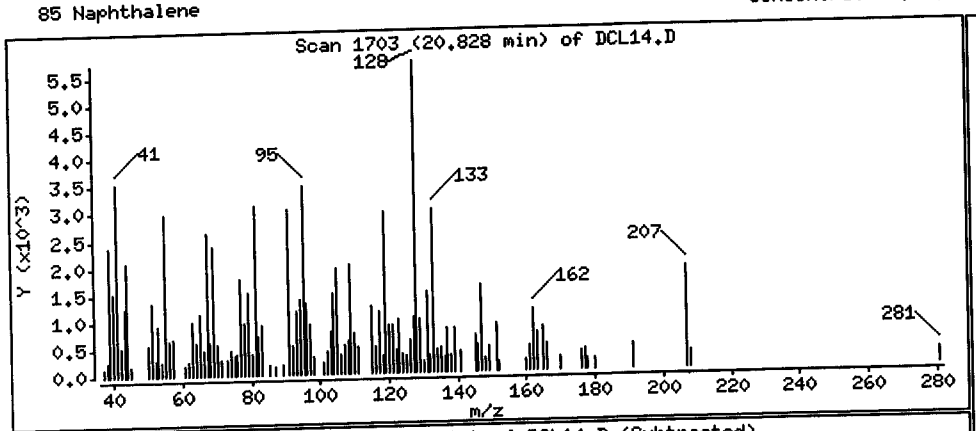
Instrument: MSVOA04.i

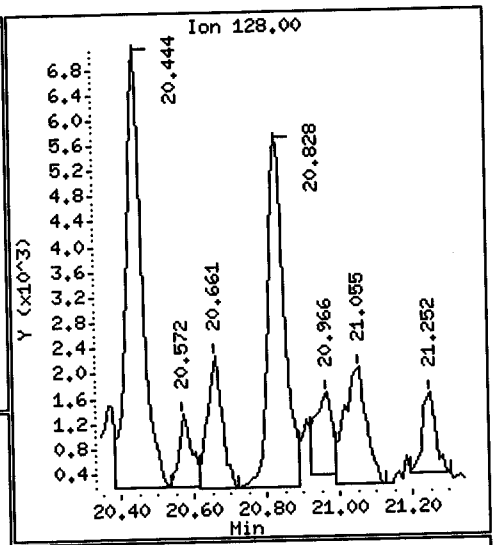
Operator: VOC

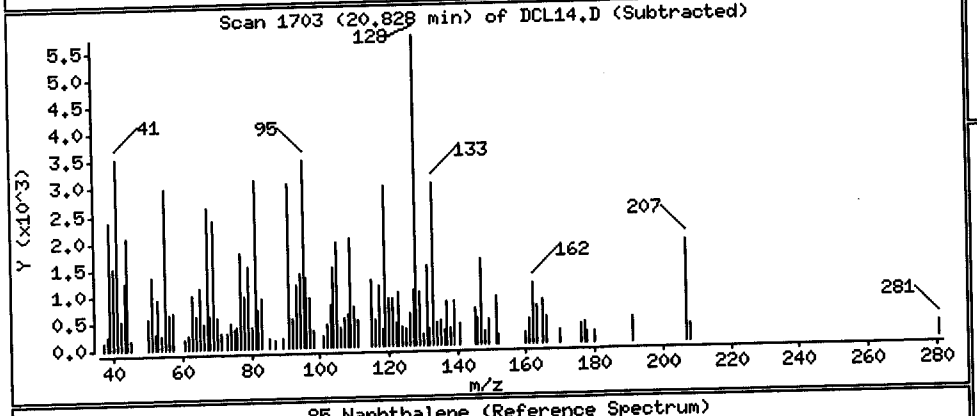
Column diameter: 0.32

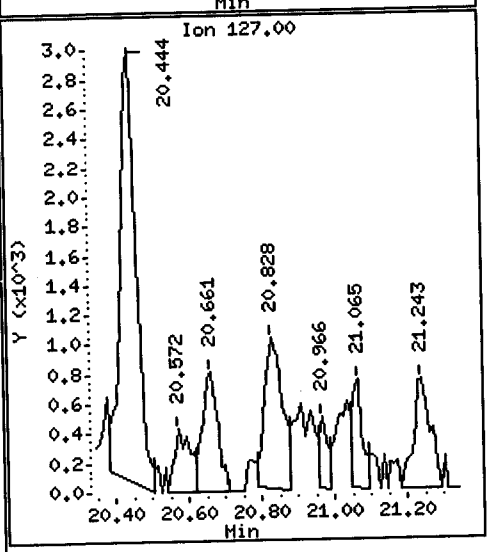
Concentration: 0.8263 UG/L

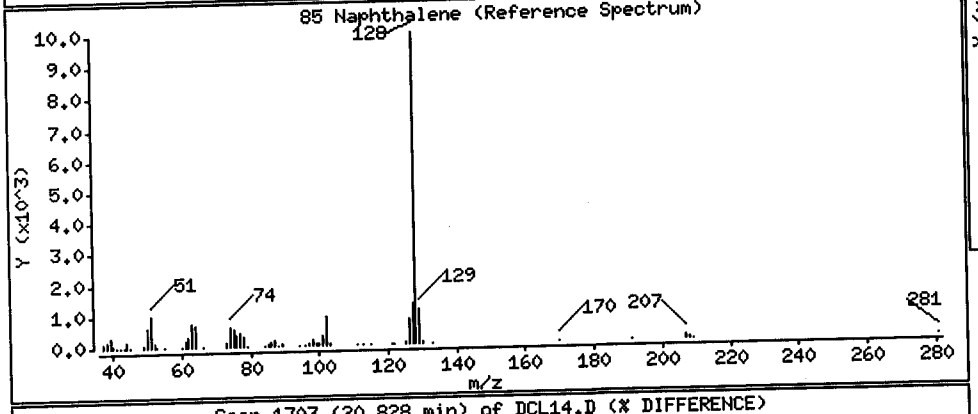
85 Naphthalene

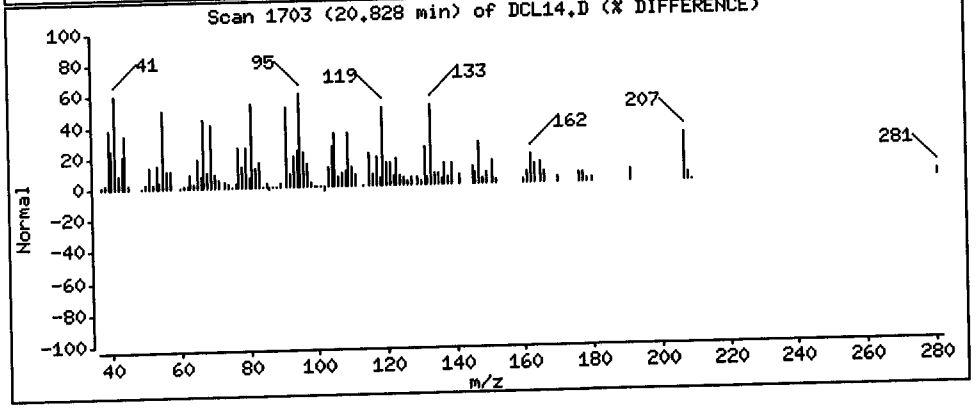












[1,2,3-Trichlorobenzene; 8.4 J; FP; u]

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL14.D

Date : 21-MAR-2008 15:01

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-003,136236,

Purge Volume: 5.0

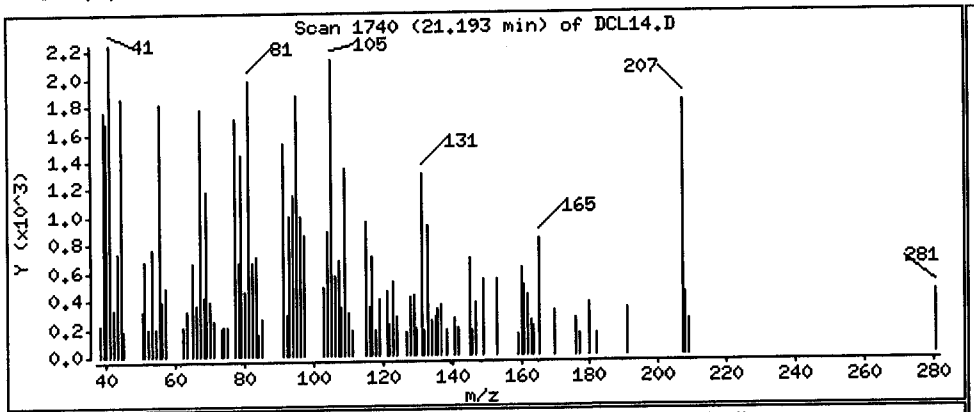
Operator: VOC

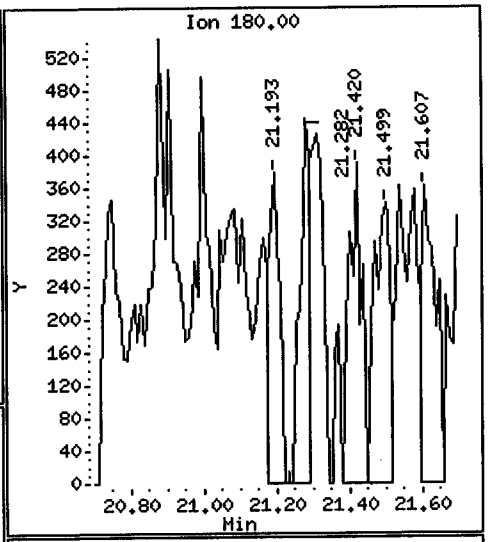
Column phase: RTx Volatiles

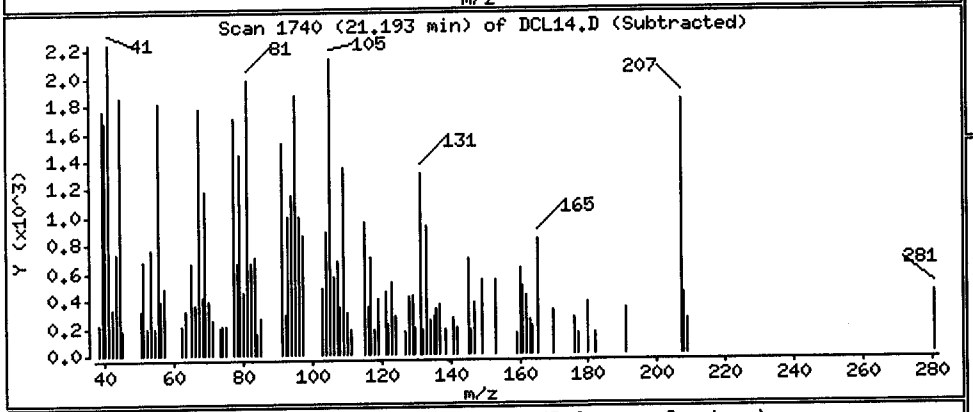
Column diameter: 0.32

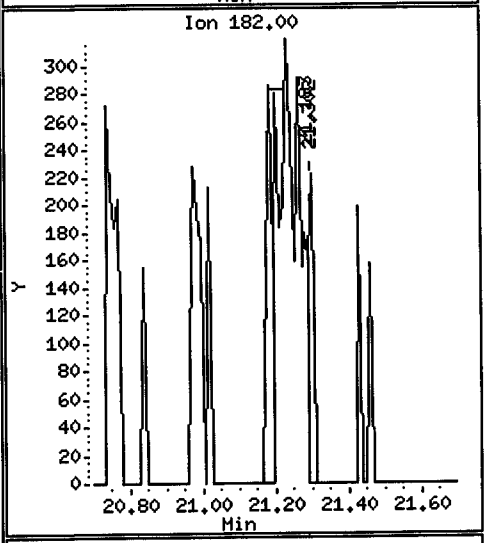
86 1,2,3-Trichlorobenzene

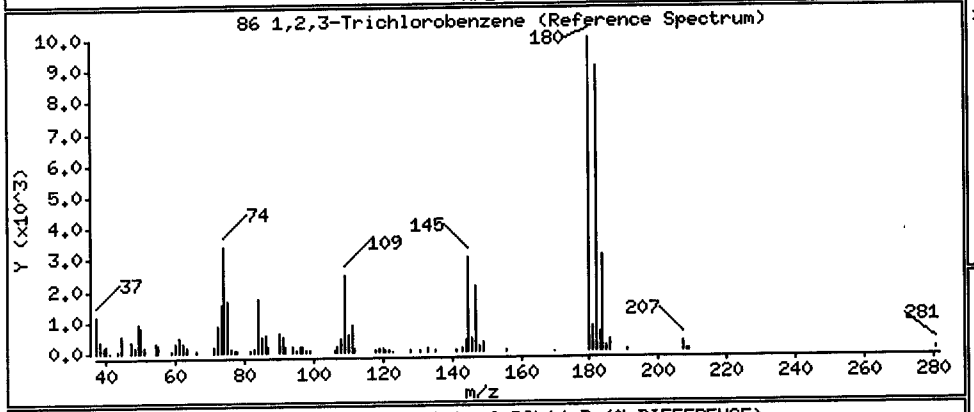
Concentration: 0.1009 UG/L

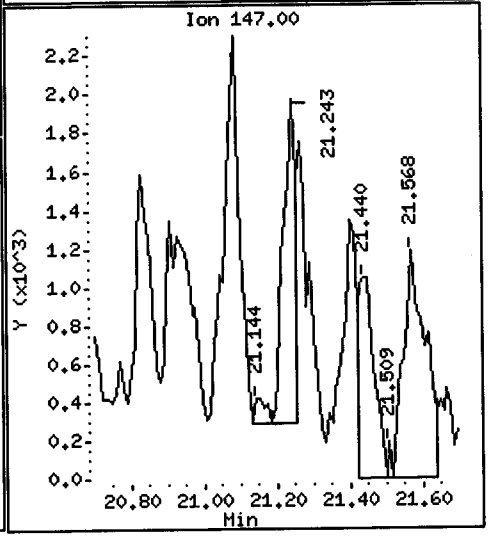


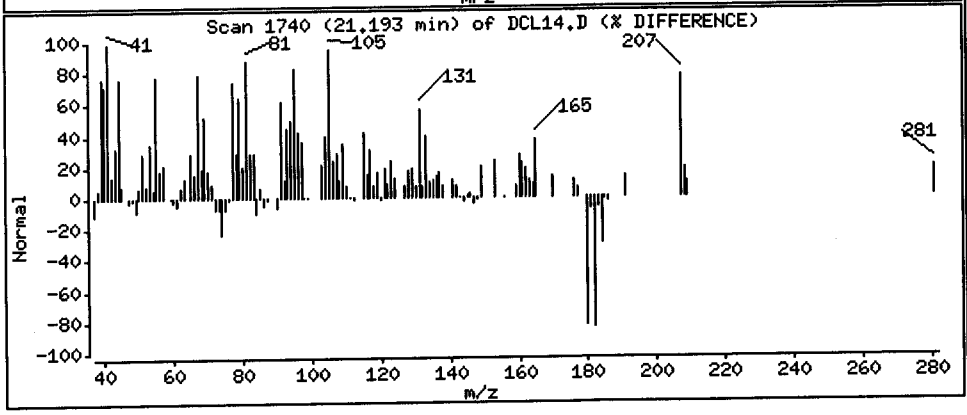












CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8260B

Inst : MSVOA04
Seqnum : 438117134011
File : dcl11
Cal : 438107113004
IDF : 0.7937

Lab ID : 202043-009
Matrix : Soil
Batch : 136236
Caldate : 14-MAR-2008

Client ID : 1065EX314[5.5]
Acct : MACTEC (AMP)
Time : 21-MAR-2008 13:20
Caltype : SOIL
Units : ug/Kg

Analyte	Result	RTS	RL	Blank	Flags
Freon 12	ND		7.9		c- u v-
Chloromethane	ND		7.9		u
Vinyl Chloride	ND		7.9		u
Bromomethane	ND		7.9		u
Chloroethane	ND		7.9		u
Trichlorofluoromethane	ND		4.0		u
Acetone	46		16		u
Freon 113	ND		4.0		u
1,1-Dichloroethene	ND		4.0		u
Methylene Chloride	1.8 J		16	5.6	c+ u **b***
Carbon Disulfide	ND		4.0		u
MTBE	ND		4.0		u
trans-1,2-Dichloroethene	ND		4.0		u
Vinyl Acetate	ND		40		u
1,1-Dichloroethane	ND		4.0		u
2-Butanone	8.6		7.9		u
cis-1,2-Dichloroethene	ND		4.0		u
2,2-Dichloropropane	ND		4.0		u
Chloroform	ND		4.0		u
Bromochloromethane	ND		4.0		u
1,1,1-Trichloroethane	ND		4.0		u
1,1-Dichloropropene	4.4	-0.292	4.0		u x
Carbon Tetrachloride	5.6	-0.272	4.0		u x
1,2-Dichloroethane	ND		4.0		u
Benzene	ND		4.0		u
Trichloroethene	ND		4.0		u
1,2-Dichloropropane	ND		4.0		u
Bromodichloromethane	ND		4.0		u
Dibromomethane	ND		4.0		u
4-Methyl-2-Pentanone	ND		7.9		u
cis-1,3-Dichloropropene	ND		4.0		u
Toluene	ND		4.0		u
trans-1,3-Dichloropropene	ND		4.0		u
1,1,2-Trichloroethane	ND		4.0		u
2-Hexanone	ND		7.9		u
1,3-Dichloropropane	ND		4.0		u
Tetrachloroethene	ND		4.0		u
Dibromochloromethane	ND		4.0		u
1,2-Dibromoethane	ND		4.0		u
Chlorobenzene	ND		4.0		u
1,1,1,2-Tetrachloroethane	ND		4.0		u
Ethylbenzene	ND		4.0		u
m,p-Xylenes	ND		4.0		u
o-Xylene	ND		4.0		u
Styrene	ND		4.0		u
Bromoform	ND		4.0		u
Isopropylbenzene	ND		4.0		u
1,1,2,2-Tetrachloroethane	ND		4.0		u
1,2,3-Trichloropropane	ND		4.0		u

438117134011

Analyte	Result	RTS	RL	Blank	Flags
Propylbenzene	ND		4.0		u
Bromobenzene	ND		4.0		u
1,3,5-Trimethylbenzene	ND		4.0		u
2-Chlorotoluene	ND		4.0		u
4-Chlorotoluene	ND		4.0		u
tert-Butylbenzene	ND		4.0	0.57	u
1,2,4-Trimethylbenzene	ND		4.0	0.46	u
sec-Butylbenzene	ND		4.0	0.52	u
para-Isopropyl Toluene	ND		4.0	0.55	u
1,3-Dichlorobenzene	ND		4.0		u
1,4-Dichlorobenzene	ND		4.0		u
n-Butylbenzene	ND		4.0	0.44	u
1,2-Dichlorobenzene	ND		4.0		u
1,2-Dibromo-3-Chloropropane	ND		4.0		u
1,2,4-Trichlorobenzene	ND		4.0		u
Hexachlorobutadiene	ND		4.0		c- u
Naphthalene	ND		4.0	0.78	u
1,2,3-Trichlorobenzene	ND		4.0		u

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	39.68	45.07	114	78-126	u
1,2-Dichloroethane-d4	39.68	44.04	111	76-137	u
Toluene-d8	39.68	40.70	103	80-120	u
Bromofluorobenzene	39.68	46.28	117	80-121	u

ISTD (ICAL dce12)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE R	Drift
Pentafluorobenzene	402255	428778	6.59	10.00	9.97	-0.03
1,4-Difluorobenzene	600047	645204	7.53	11.12	11.09	-0.03
Chlorobenzene-d5	504409	574758	13.95	15.22	15.21	-0.01
1,4-Dichlorobenzene-d4	272365	280295	2.91	17.95	17.94	-0.01

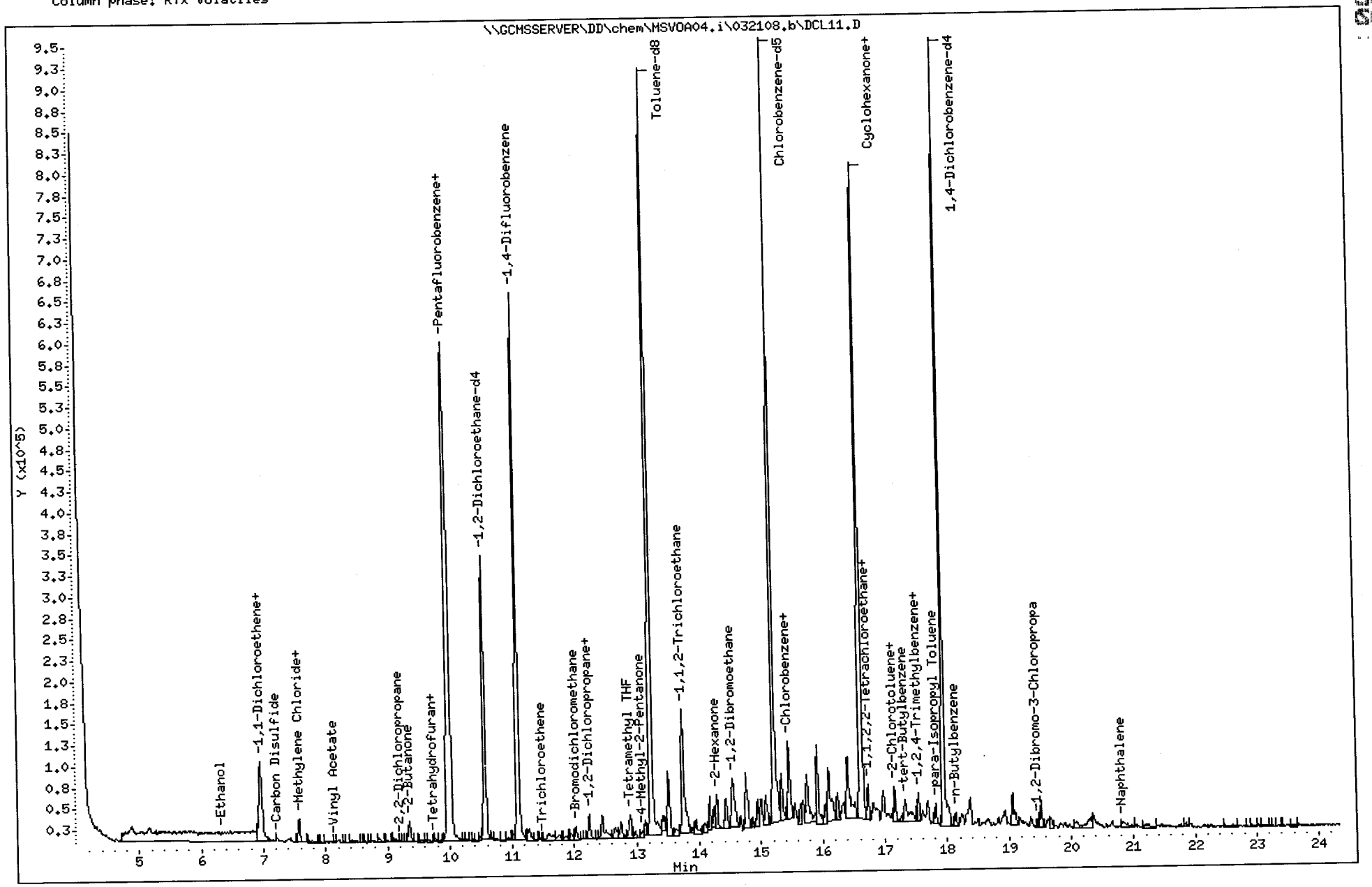
Analyst: BO Date: 03/21/08 Reviewer: MJD Date: 03/21/08

+=high bias -=low bias b=noncompliant c=CCV u=use v=ICV x=false positive

438117134011

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL11.D
Date : 21-MAR-2008 13:20
Client ID: DYNA P&T
Sample Info: S,202043-009,136236,6.3/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i
Operator: VOC
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL11.D
Report Date: 21-Mar-2008 13:58

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL11.D
Lab Smp Id:
Inj Date : 21-MAR-2008 13:20
Operator : VOC
Smp Info : S,202043-009,136236,6.3/5
Misc Info :
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\826GOX4S.m
Meth Date : 21-Mar-2008 09:53 msvoa04
Cal Date : 14-MAR-2008 18:54
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.03
Processing Host: GCMSSERVER

Client Smp ID: DYNA P&T
MS Autotune Date: 12-MAR-2008 09:04
Inst ID: MSVOA04.i
Quant Type: ISTD
Cal File: DCE15.D
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
7	Ethanol	45	6.341	6.350	(0.636)	202	1.84986	1.8498
9	1,1-Dichloroethene	96	6.893	6.863	(0.691)	543	0.10151	0.1015
10	Acetone	43	6.952	6.981	(0.697)	179783	58.1365	58.1364
11	Isopropanol	45	7.090	7.070	(0.711)	493	0.73427	0.7342
12	Carbon Disulfide	76	7.219	7.247	(0.724)	5622	0.29156	0.2915
13	Methylene Chloride	84	7.564	7.602	(0.759)	14580	2.21118	2.2111
14	tert-Butyl Alcohol (TBA)	59	7.603	7.632	(0.763)	823	0.88390	0.8839
18	Vinyl Acetate	43	8.205	8.529	(0.823)	2496	0.18120	0.1811
21	2-Butanone	43	9.349	9.377	(0.938)	40502	10.8918	10.8917
22	2,2-Dichloropropane	77	9.221	9.367	(0.925)	1010	0.12053	0.1205
25	Tetrahydrofuran	42	9.783	9.761	(0.981)	654	0.31157	0.3115
26	Chloroform	83	9.773	9.791	(0.980)	3274	0.30408	0.3040
* 27	Pentafluorobenzene	168	9.970	10.007	(1.000)	428778	50.0000	
28	Dibromofluoromethane	113	10.010	10.037	(1.004)	277155	56.7884	56.7884
30	Carbon Tetrachloride	117	9.970	10.274	(0.899)	44459	7.06448	7.0644
31	1,1-Dichloropropene	75	9.970	10.293	(0.899)	42189	5.50643	5.5064

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL11.D
Report Date: 21-Mar-2008 13:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	32 1,2-Dichloroethane-d4	65	10.562	10.589	(0.952)	316490	55.4875	55.4875
*	36 1,4-Difluorobenzene	114	11.094	11.121	(1.000)	645204	50.0000	
	37 Trichloroethene	95	11.449	11.516	(1.032)	1138	0.19998	0.1999
	39 1,2-Dichloropropane	63	12.229	11.930	(1.102)	607	0.10235	0.1023
	40 Dibromomethane	93	12.248	12.127	(1.104)	1043	0.24079	0.2407
	41 Bromodichloromethane	83	12.012	12.285	(1.083)	3117	0.37002	0.3700
	43 Tetramethyl THF	43	12.870	12.876	(1.160)	2147	0.15164	0.1516
	45 4-Methyl-2-Pentanone	43	13.047	13.073	(1.176)	2002	0.25296	0.2529
	46 Toluene-d8	98	13.234	13.261	(1.193)	688024	51.2857	51.2857
	49 1,1,2-Trichloroethane	85	13.708	13.961	(1.236)	1026	0.37321	0.3732
	51 2-Hexanone	43	14.270	14.207	(0.938)	1744	0.29227	0.2922
	54 1,2-Dibromoethane	107	14.546	14.690	(1.311)	1400	0.26188	0.2618
*	55 Chlorobenzene-d5	117	15.207	15.223	(1.000)	574758	50.0000	
	56 Chlorobenzene	112	15.453	15.262	(1.016)	1660	0.12836	0.1283
	57 Ethylbenzene	91	15.453	15.321	(1.016)	5423	0.23854	0.2385
	59 m,p-Xylenes	106	15.453	15.469	(1.016)	1968	0.23369	0.2336
	64 Cyclohexanone	55	16.597	16.613	(0.925)	1983	1.68053	1.6805
	65 Bromofluorobenzene	95	16.627	16.642	(0.927)	307227	58.3089	58.3089
	66 1,1,2,2-Tetrachloroethane	83	16.814	16.790	(0.937)	1406	0.21735	0.2173
	68 Propylbenzene	91	16.597	16.849	(0.925)	9114	0.38071	0.3807
	69 1,2,3-Trichloropropane	75	16.854	16.879	(0.940)	568	0.10220	0.1021
	70 2-Chlorotoluene	91	17.159	17.027	(0.957)	2426	0.15040	0.1504
	72 4-Chlorotoluene	91	17.159	17.145	(0.957)	2426	0.15925	0.1592
	73 tert-Butylbenzene	119	17.396	17.411	(0.970)	3421	0.24528	0.2452
	74 1,2,4-Trimethylbenzene	105	17.643	17.470	(0.984)	2652	0.16537	0.1653
	75 sec-Butylbenzene	105	17.643	17.658	(0.984)	2652	0.12552	0.1255
	76 para-Isopropyl Toluene	119	17.791	17.796	(0.992)	1918	0.10855	0.1085
*	78 1,4-Dichlorobenzene-d4	152	17.939	17.953	(1.000)	280295	50.0000	
	80 n-Butylbenzene	91	18.254	18.269	(1.018)	4184	0.22927	0.2292
	82 1,2-Dibromo-3-Chloropropane	75	19.398	19.383	(1.081)	188	0.12288	0.1228
	85 Naphthalene	128	20.828	20.842	(1.161)	3656	0.22099	0.2209

[Acetone; 46; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL11.D

Date : 21-MAR-2008 13:20

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-009,136236,6.3/5

Operator: VOC

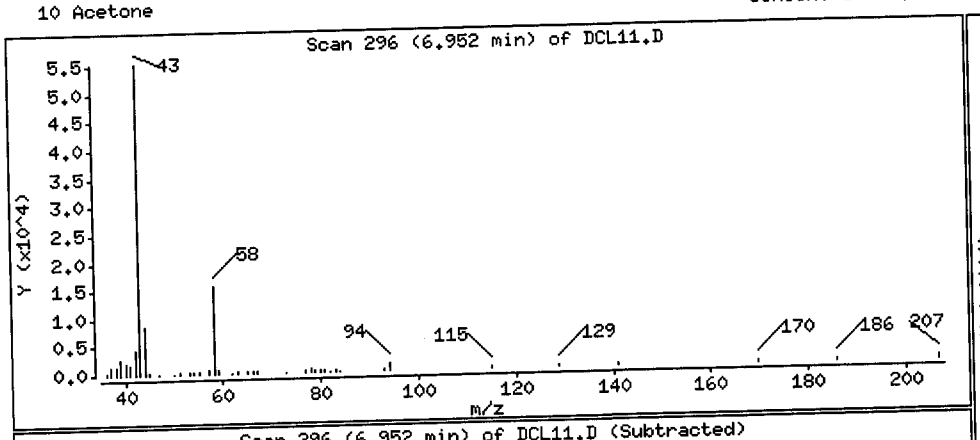
Purge Volume: 5.0

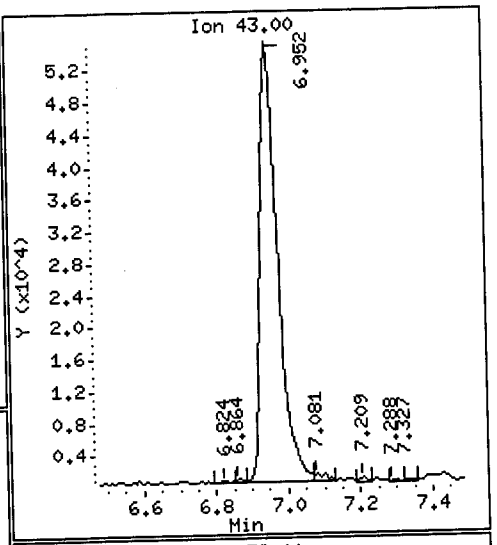
Column diameter: 0.32

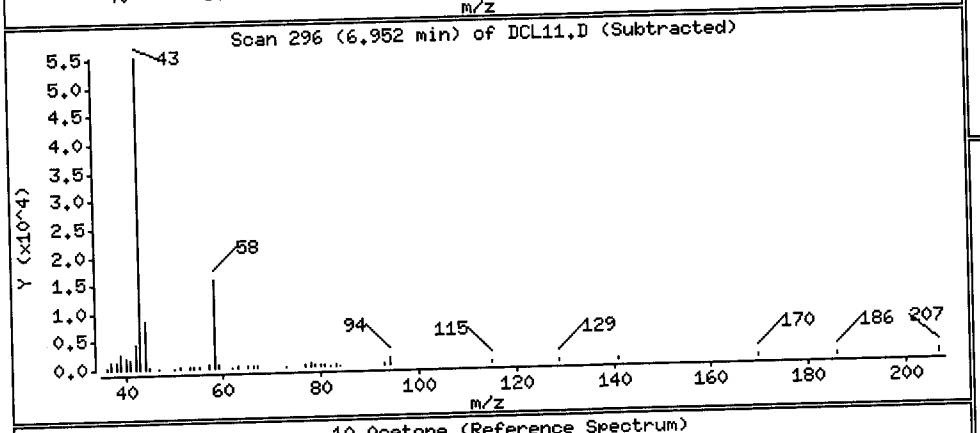
Column phase: RTx Volatiles

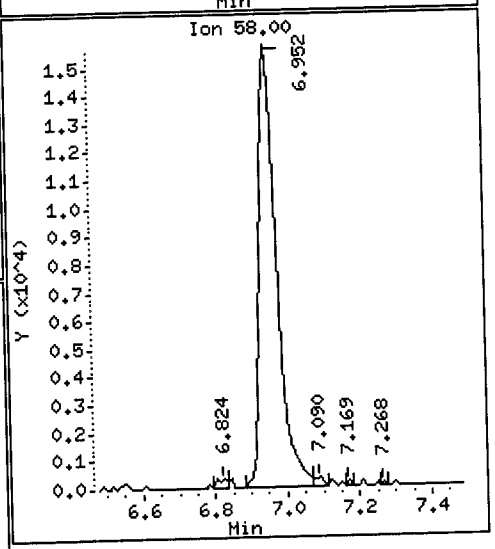
Concentration: 58.1364 UG/L

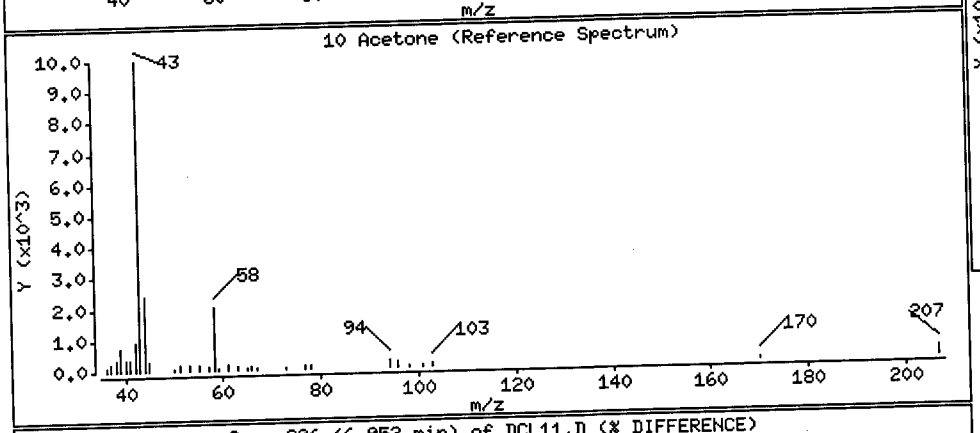
10 Acetone

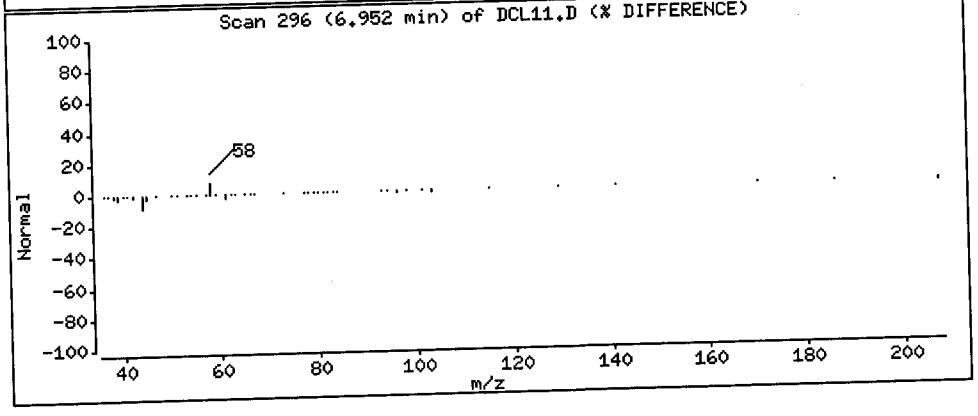












[Methylene Chloride; 1.8 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL11.D

Date : 21-MAR-2008 13:20

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-009,136236,6.3/5

Purge Volume: 5.0

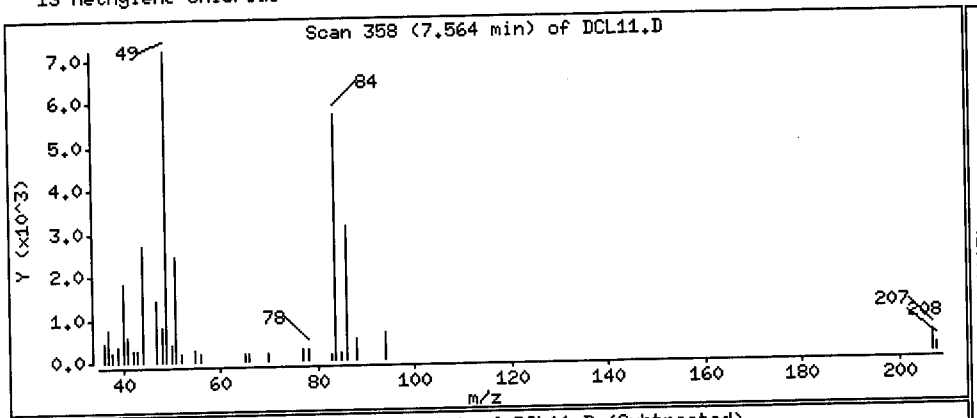
Operator: VOC

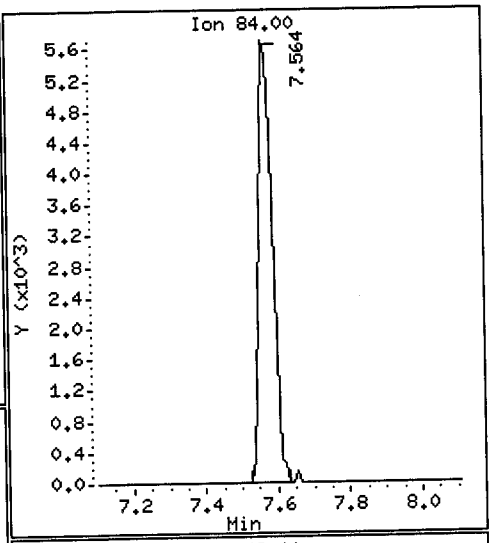
Column phase: RTx Volatiles

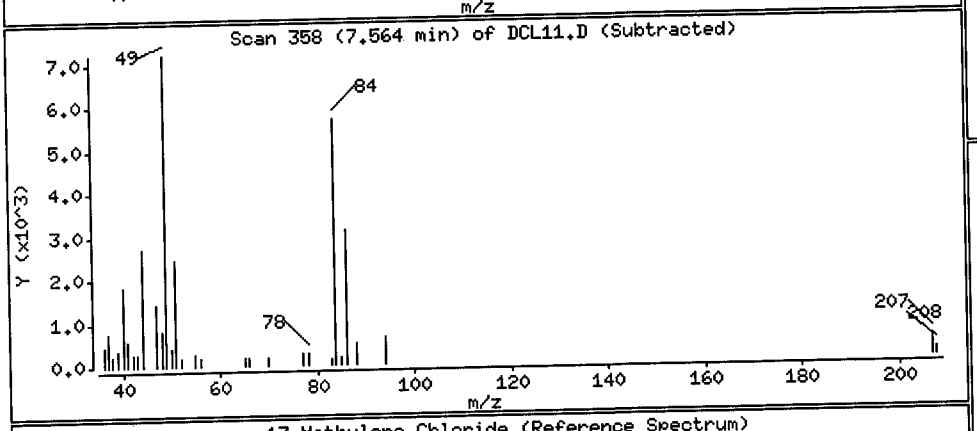
Column diameter: 0.32

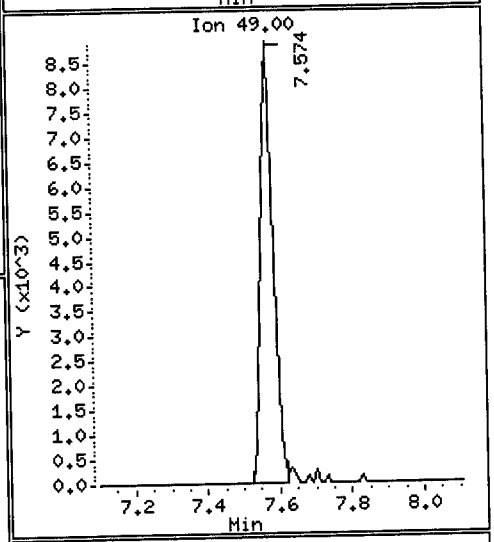
13 Methylene Chloride

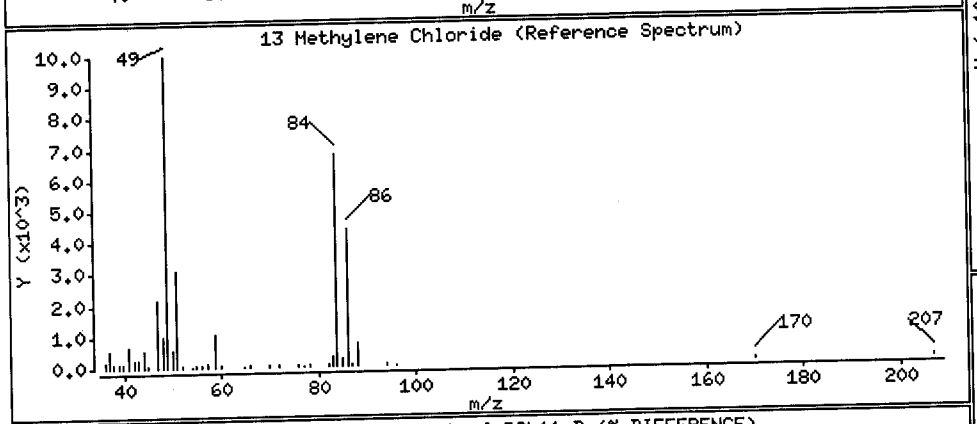
Concentration: 2.2111 UG/L

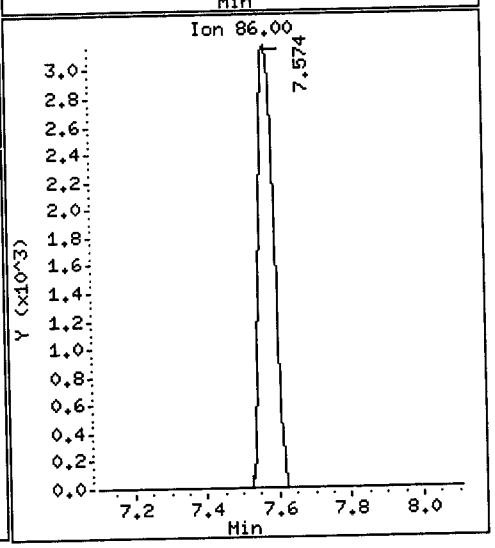


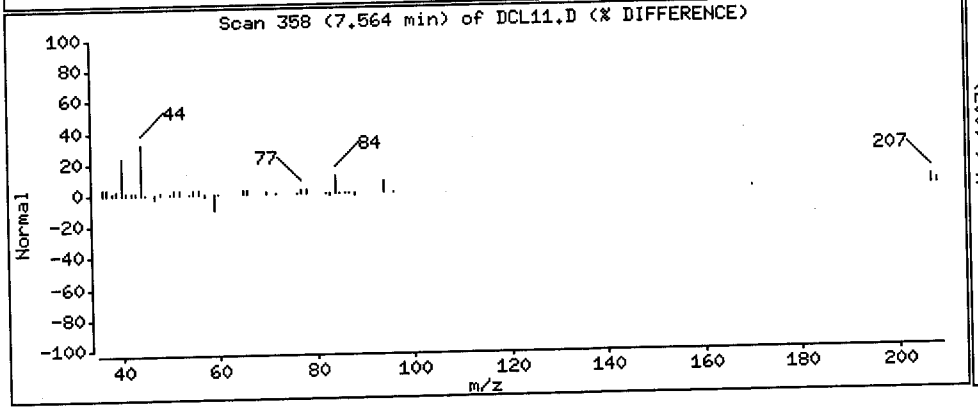












[2-Butanone; 8.6; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL11.D

Date : 21-MAR-2008 13:20

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-009,136236,6.3/5

Operator: VOC

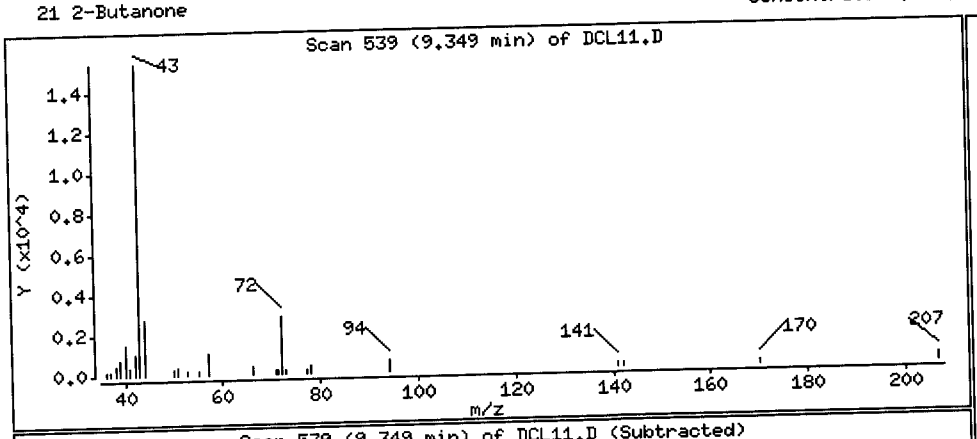
Purge Volume: 5.0

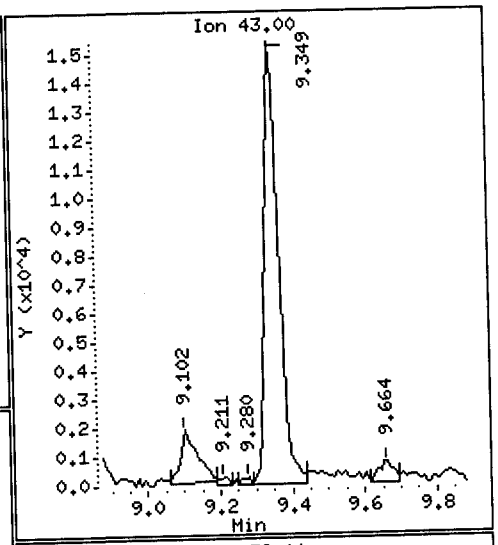
Column diameter: 0.32

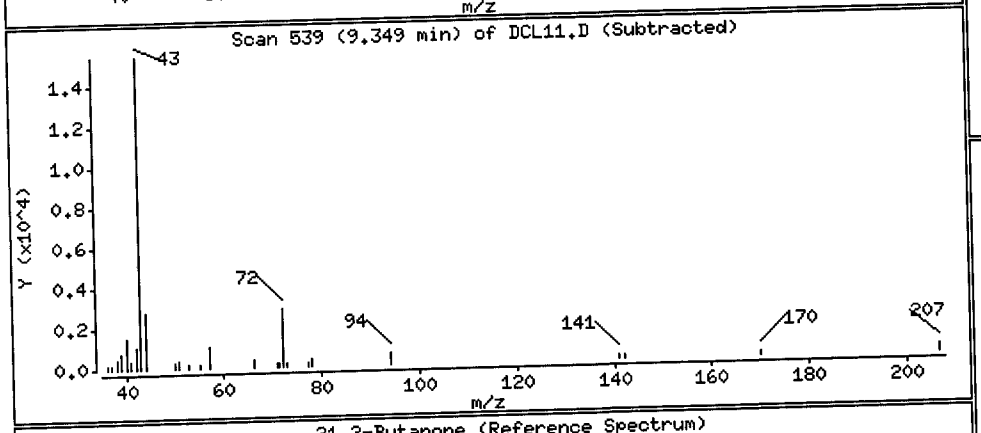
Column phase: RTx Volatiles

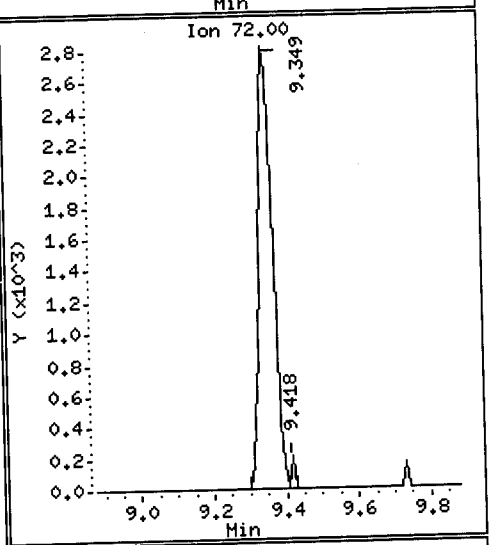
Concentration: 10.8917 UG/L

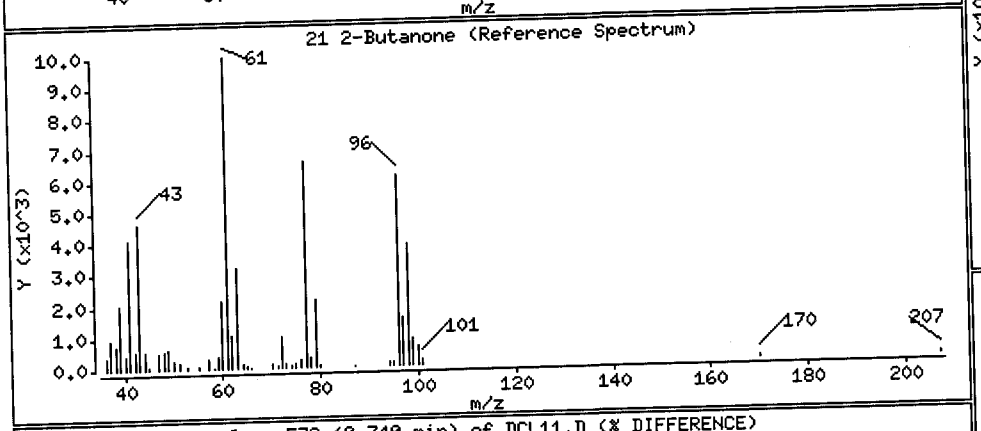
21 2-Butanone

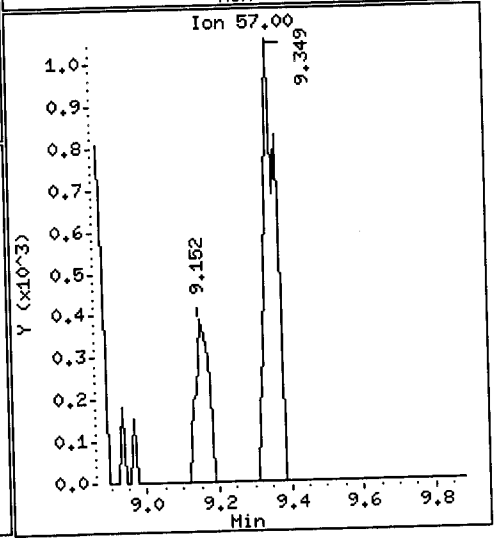


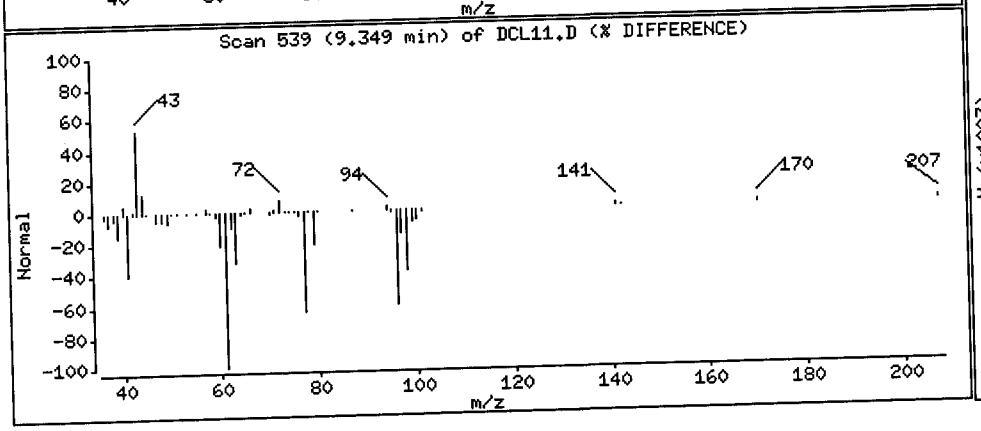












[Carbon Tetrachloride; 5.6; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL11.D

Date : 21-MAR-2008 13:20

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-009,136236,6.3/5

Purge Volume: 5.0

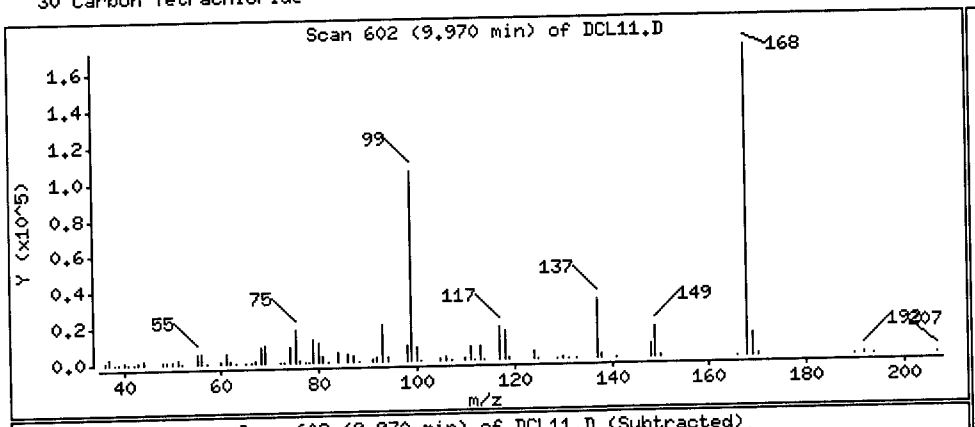
Operator: VOC

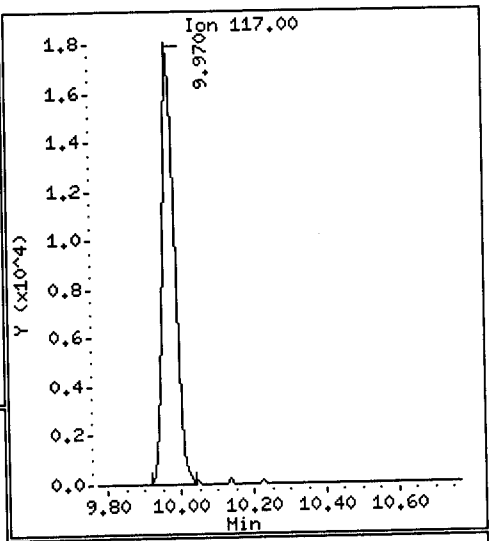
Column phase: RTx Volatiles

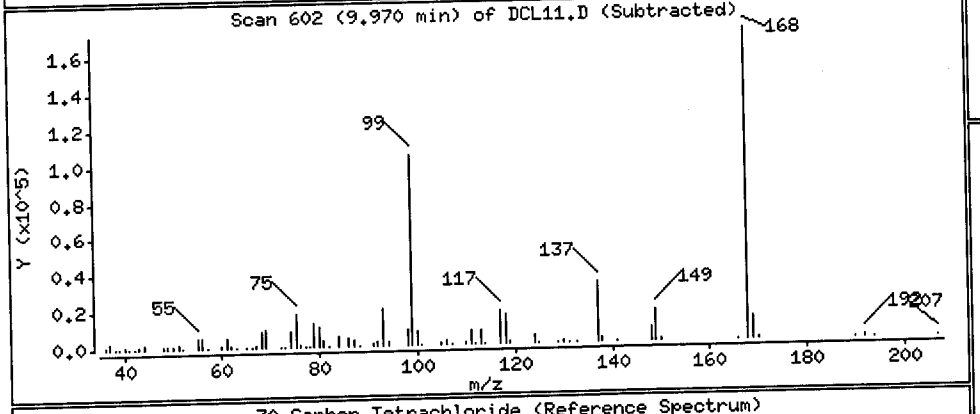
Column diameter: 0.32

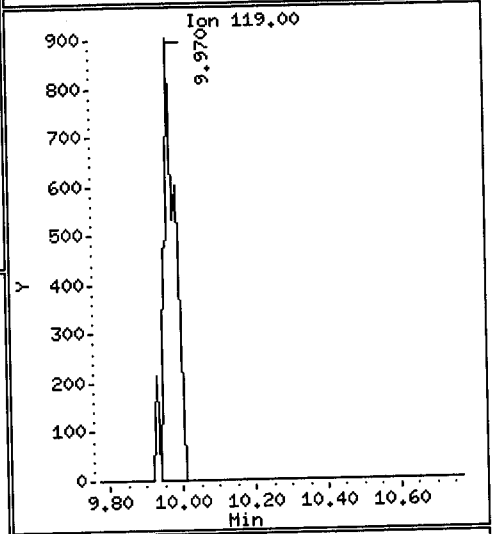
30 Carbon Tetrachloride

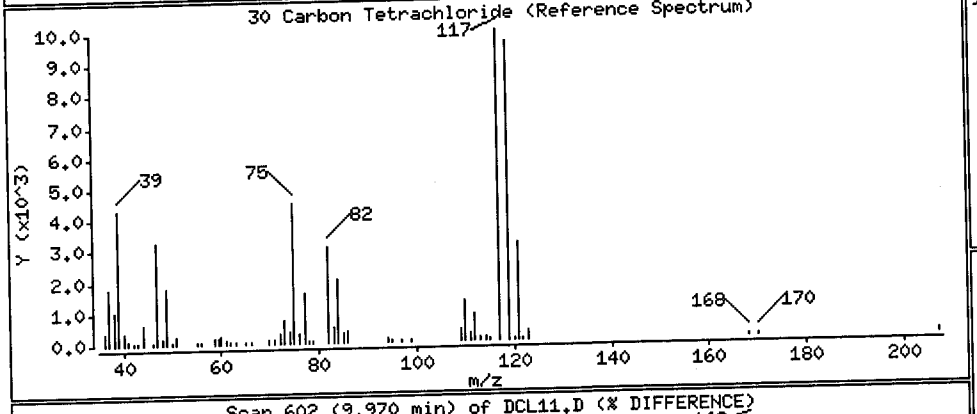
Concentration: 7.0644 UG/L

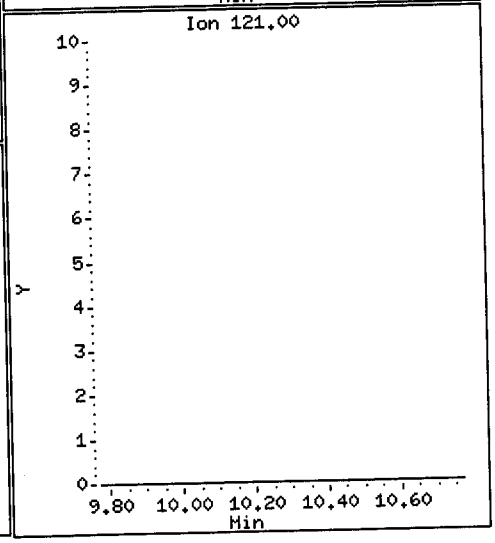


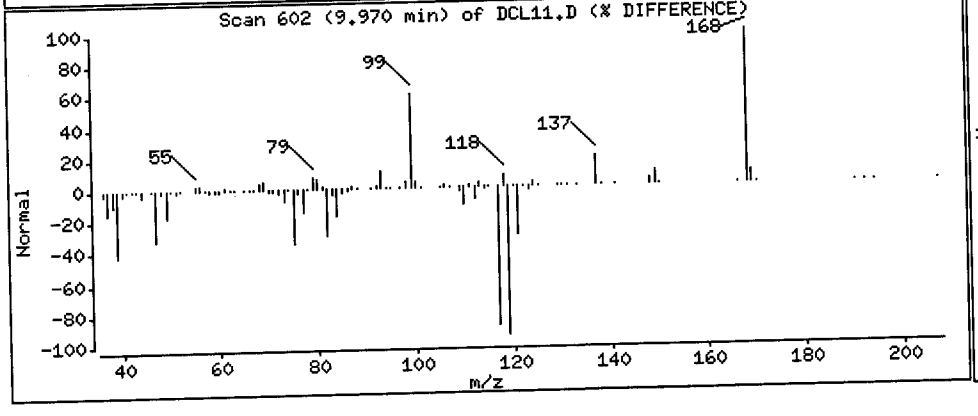












[1,1-Dichloropropene; 4.4; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL11.D

Date : 21-MAR-2008 13:20

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: S,202043-009,136236,6.3/5

Purge Volume: 5.0

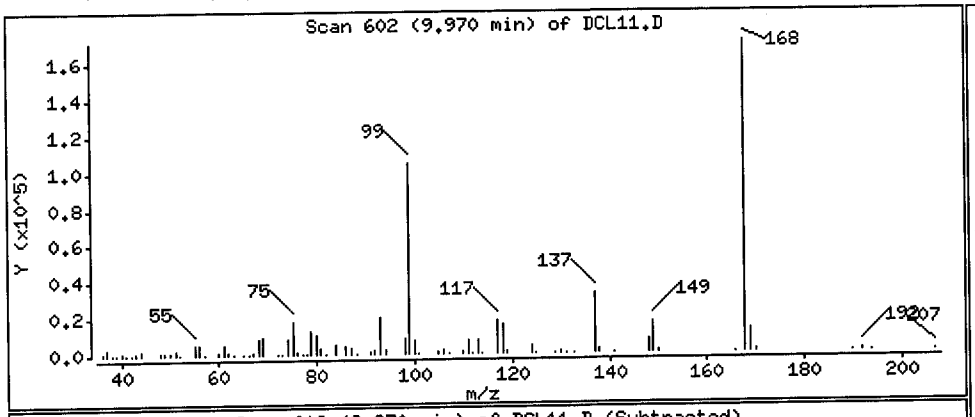
Operator: VOC

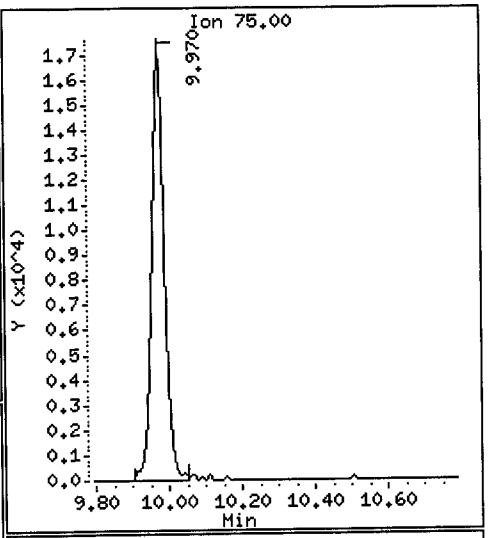
Column phase: RTx Volatiles

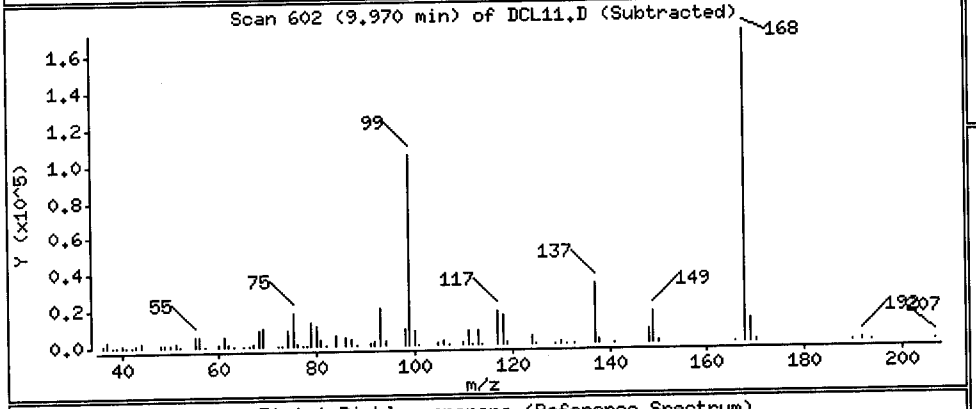
Column diameter: 0.32

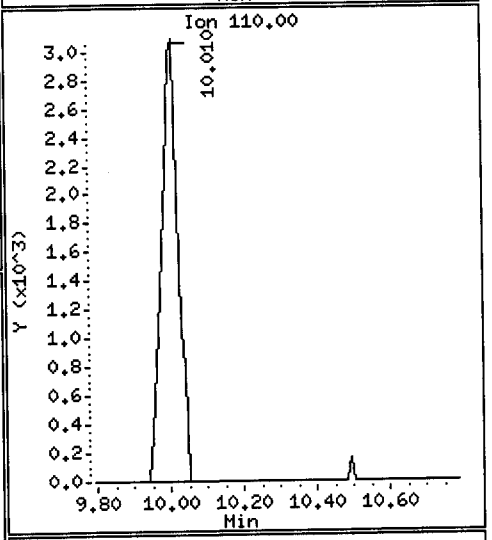
31 1,1-Dichloropropene

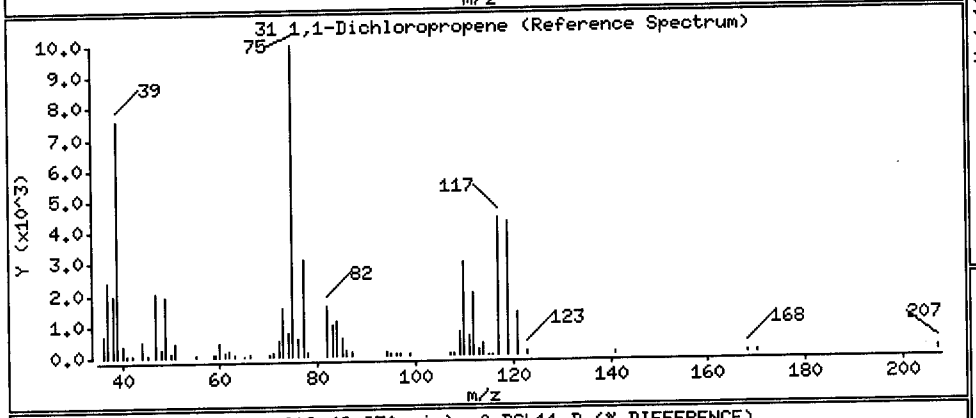
Concentration: 5.5064 UG/L

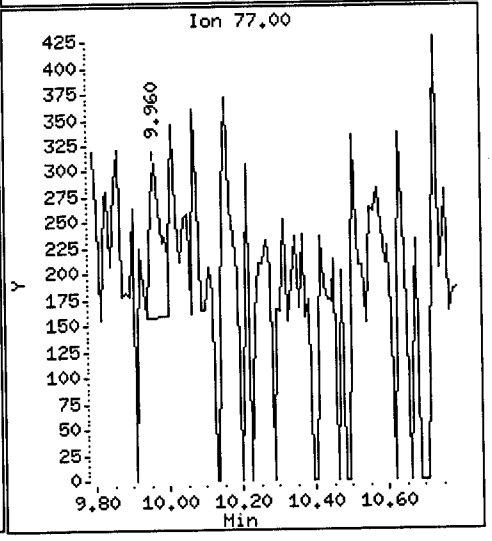


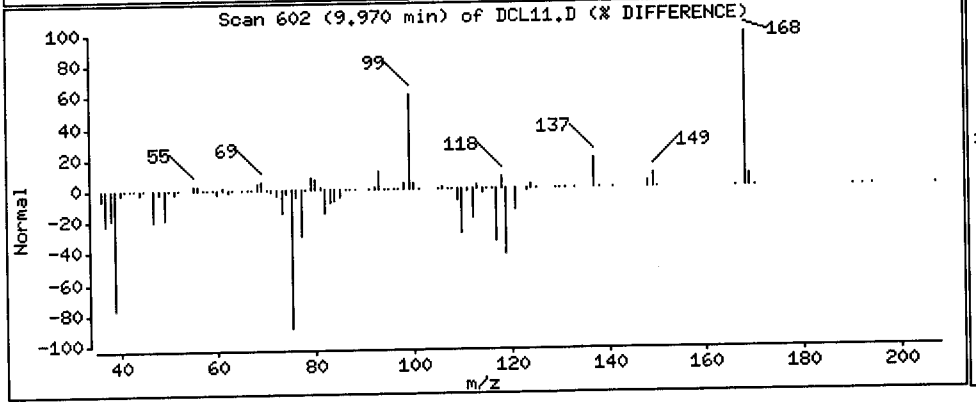












Curtis & Tompkins, Ltd.

QC Raw Data

CURTIS & TOMPKINS BLANK USER REPORT FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05
Seqnum : 448115696005.1
File : eck05
Cal : 448110396001
IDF : 1.0

Lab ID : QC433729
Matrix : Soil
Batch : 136185
Caldate : 16-MAR-2008

Time : 20-MAR-2008 10:25
Caltype : SOIL
Units : ug/Kg

Analyte	Result	RTS	RL	Flags
Freon 12	1.9 J		10	?curve+ u v- x
Chloromethane	ND		10	u
Vinyl Chloride	ND		10	u
Bromomethane	ND		10	c+ u
Chloroethane	0.83 J	0.135	10	?curve+ u x
Trichlorofluoromethane	1.9 J		5.0	?curve+ u v- x
Acetone	ND		20	u
Freon 113	ND		5.0	c- u
1,1-Dichloroethene	ND		5.0	u
Methylene Chloride	0.78 J		20	u
Carbon Disulfide	ND		5.0	u
MTBE	ND		5.0	u
trans-1,2-Dichloroethene	ND		5.0	u
Vinyl Acetate	ND		50	u
1,1-Dichloroethane	ND		5.0	u
2-Butanone	ND		10	u
cis-1,2-Dichloroethene	ND		5.0	u
2,2-Dichloropropane	ND		5.0	u
Chloroform	ND		5.0	u
Bromochloromethane	ND		5.0	u
1,1,1-Trichloroethane	ND		5.0	u
1,1-Dichloropropene	6.0	-0.289	5.0	u x
Carbon Tetrachloride	6.9	-0.270	5.0	u x
1,2-Dichloroethane	3.1 J	0.411	5.0	u x
Benzene	ND		5.0	u
Trichloroethene	4.0 J	-0.397	5.0	u x
1,2-Dichloropropane	ND		5.0	u
Bromodichloromethane	ND		5.0	u
Dibromomethane	ND		5.0	u
4-Methyl-2-Pentanone	0.77 J	0.194	10	u x
cis-1,3-Dichloropropene	ND		5.0	u
Toluene	ND		5.0	u
trans-1,3-Dichloropropene	ND		5.0	u
1,1,2-Trichloroethane	ND		5.0	u
2-Hexanone	ND		10	u
1,3-Dichloropropane	ND		5.0	u
Tetrachloroethene	ND		5.0	u
Dibromochloromethane	ND		5.0	u
1,2-Dibromoethane	ND		5.0	u
Chlorobenzene	ND		5.0	u
1,1,1,2-Tetrachloroethane	ND		5.0	u
Ethylbenzene	ND		5.0	u
m,p-Xylenes	ND		5.0	u
o-Xylene	ND		5.0	u
Styrene	ND		5.0	u
Bromoform	ND		5.0	u
Isopropylbenzene	ND		5.0	u
1,1,2,2-Tetrachloroethane	ND		5.0	u

448115696005.1

Analyte	Result	RTS	RL	Flags
1,2,3-Trichloropropane	ND		5.0	u
Propylbenzene	ND		5.0	u
Bromobenzene	ND		5.0	u
1,3,5-Trimethylbenzene	ND		5.0	u
2-Chlorotoluene	ND		5.0	u
4-Chlorotoluene	ND		5.0	u
tert-Butylbenzene	ND		5.0	u
1,2,4-Trimethylbenzene	ND		5.0	u
sec-Butylbenzene	ND		5.0	u
para-Isopropyl Toluene	ND		5.0	u
1,3-Dichlorobenzene	ND		5.0	u
1,4-Dichlorobenzene	ND		5.0	u
n-Butylbenzene	ND		5.0	u
1,2-Dichlorobenzene	ND		5.0	u
1,2-Dibromo-3-Chloropropane	ND		5.0	u
1,2,4-Trichlorobenzene	ND		5.0	u
Hexachlorobutadiene	ND		5.0	u
Naphthalene	2.0 J		5.0	u
1,2,3-Trichlorobenzene	0.69 J		5.0	u

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	50.00	43.80	88	78-126	u
1,2-Dichloroethane-d4	50.00	46.91	94	76-137	u
Toluene-d8	50.00	49.44	99	80-120	u
Bromofluorobenzene	50.00	55.50	111	80-121	u

ISTD (ICAL ecg11)	ICAL Area	BLANK Area	%Drift	ICAL RT	BLANK RT	Drift
Pentafluorobenzene	751961	968326	28.77	9.80	9.80	0.00
1,4-Difluorobenzene	1093331	1295946	18.53	10.90	10.90	0.00
Chlorobenzene-d5	980726	1092528	11.40	15.00	15.00	0.00
1,4-Dichlorobenzene-d4	574120	518376	-9.71	17.72	17.73	0.01

Analyst: MJD Date: 03/21/08 Reviewer: ACM Date: 03/21/08

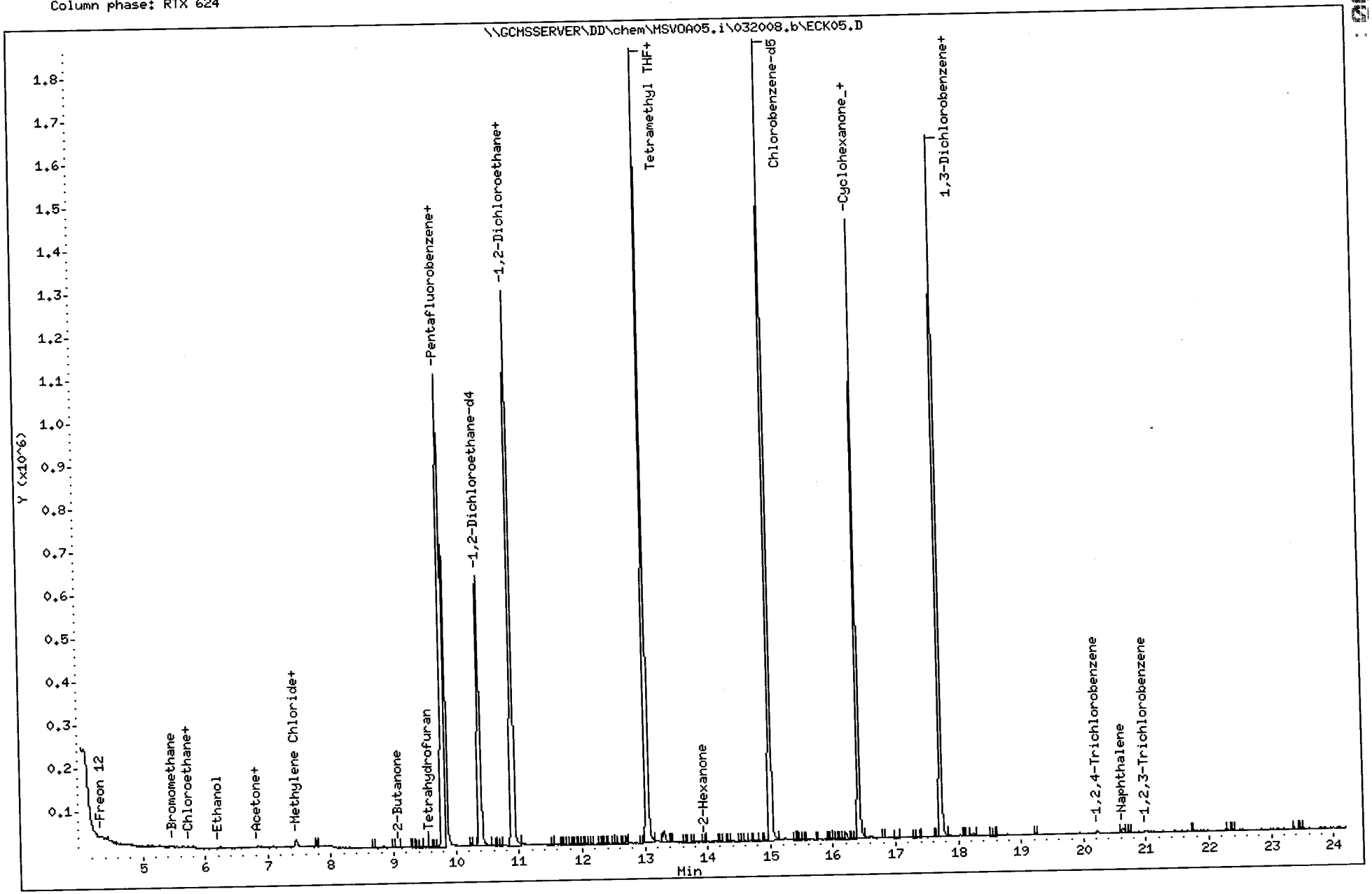
+=high bias -=low bias ?curve=check curve c=CCV u=use v=ICV x=false positive

448115696005.1

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D
Date : 20-MAR-2008 10:25
Client ID: DYNA P&T
Sample Info: MB,QC433729
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i

Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D
Report Date: 20-Mar-2008 11:18

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D
Lab Smp Id:
Inj Date : 20-MAR-2008 10:25
Operator : VOC
Smp Info : MB,QC433729
Misc Info : 136185,5/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06
Cal Date : 16-MAR-2008 18:55
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.03
Processing Host: GCMSSERVER

Client Smp ID: DYNA P&T
MS Autotune Date: 08-JAN-2007 16:49
Inst ID: MSVOA05.i

Quant Type: ISTD
Cal File: ECG07.D

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
1	Freon 12	85	4.338	4.339	(0.443)	391	1.92404	1.9240
4	Bromomethane	94	5.472	5.483	(0.558)	969	0.96414	0.9641
5	Chloroethane	64	5.748	5.620	(0.587)	220	0.82575	0.8257
6	Trichlorofluoromethane	101	5.945	5.955	(0.607)	373	1.85521	1.8552
7	Ethanol	45	6.211	6.231	(0.634)	1634	10.7674	10.7673
10	Acetone	43	6.832	6.852	(0.697)	3915	0.98043	0.9804
11	Isopropanol	45	6.920	6.941	(0.706)	2153	2.34863	2.3486
13	Methylene Chloride	84	7.453	7.463	(0.761)	9207	0.77683	0.7768
14	tert-Butyl Alcohol (TBA)	59	7.472	7.483	(0.763)	807	0.60287	0.6028
22	2-Butanone	43	9.177	9.198	(0.937)	873	0.11220	0.1121(a)
25	Tetrahydrofuran	42	9.591	9.572	(0.979)	1603	0.36847	0.3684(a)
* 27	Pentafluorobenzene	168	9.798	9.799	(1.000)	968326	50.0000	
28	Dibromofluoromethane	113	9.838	9.848	(1.004)	513092	43.8034	43.8033
30	Carbon Tetrachloride	117	9.798	10.075	(0.899)	84617	6.89884	6.8988
31	1,1-Dichloropropene	75	9.798	10.094	(0.899)	90760	5.95971	5.9597
32	1,2-Dichloroethane-d4	65	10.389	10.400	(0.953)	559918	46.9090	46.9089

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D
Report Date: 20-Mar-2008 11:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	35 1,2-Dichloroethane	62	10.912	10.508	(1.001)	45938	3.11785	3.1178
*	36 1,4-Difluorobenzene	114	10.902	10.912	(1.000)	1295946	50.0000	
	37 Trichloroethene	95	10.902	11.307	(1.000)	40044	3.99621	3.9962
	42 Tetramethyl THF	43	13.041	12.657	(1.196)	10884	0.40087	0.4008(a)
	44 4-Methyl-2-Pentanone	43	13.041	12.854	(1.196)	10884	0.77237	0.7723
	45 Toluene-d8	98	13.041	13.041	(1.196)	1405494	49.4420	49.4420
	50 2-Hexanone	43	13.996	13.977	(0.933)	1267	0.13040	0.1303(a)
*	54 Chlorobenzene-d5	117	15.002	15.012	(1.000)	1092528	50.0000	
	63 Cyclohexanone_	55	16.401	16.402	(0.925)	1988	1.43411	1.4341
	64 Bromofluorobenzene	95	16.411	16.421	(0.926)	552142	55.5021	55.5020
	68 1,2,3-Trichloropropane	75	16.549	16.658	(0.933)	1152	0.13610	0.1361(a)
	69 2-Chlorotoluene	91	16.411	16.806	(0.926)	2454	0.10176	0.1017(a)
	76 1,3-Dichlorobenzene	146	17.761	17.653	(1.002)	2593	0.17544	0.1754(a)
*	77 1,4-Dichlorobenzene-d4	152	17.732	17.732	(1.000)	518376	50.0000	
	78 1,4-Dichlorobenzene	146	17.761	17.752	(1.002)	2593	0.16977	0.1697(a)
	80 1,2-Dichlorobenzene	146	17.761	18.206	(1.002)	2593	0.17906	0.1790(a)
	82 1,2,4-Trichlorobenzene	180	20.225	20.226	(1.141)	2145	0.41048	0.4104(a)
	84 Naphthalene	128	20.639	20.630	(1.164)	11724	1.97058	1.9705
	85 1,2,3-Trichlorobenzene	180	20.994	20.995	(1.184)	1912	0.69258	0.6925

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

[Freon 12; 1.9 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Sample Info: MB,QC433729

Purge Volume: 5.0

Column phase: RTX 624

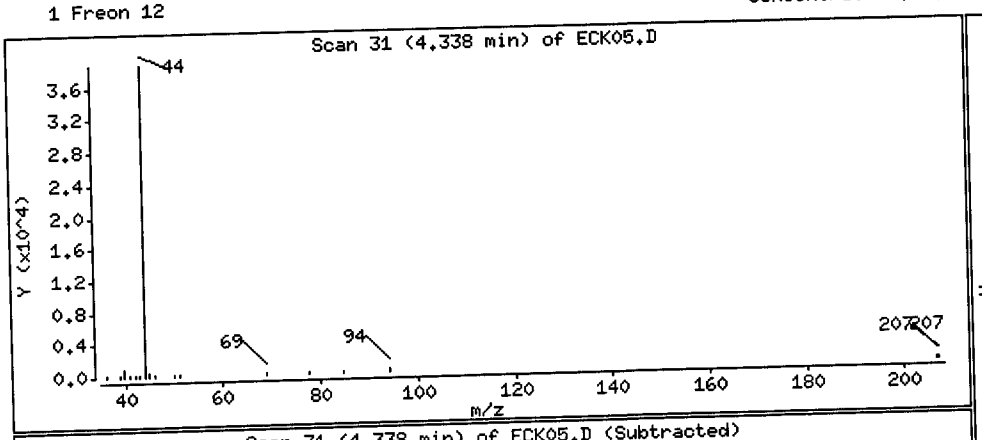
Instrument: MSVOA05.i

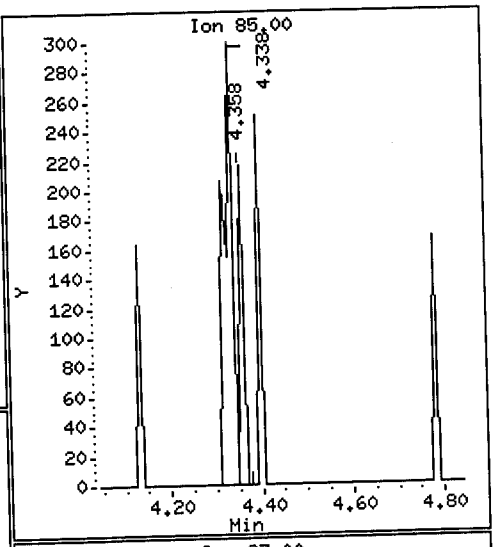
Operator: VOC

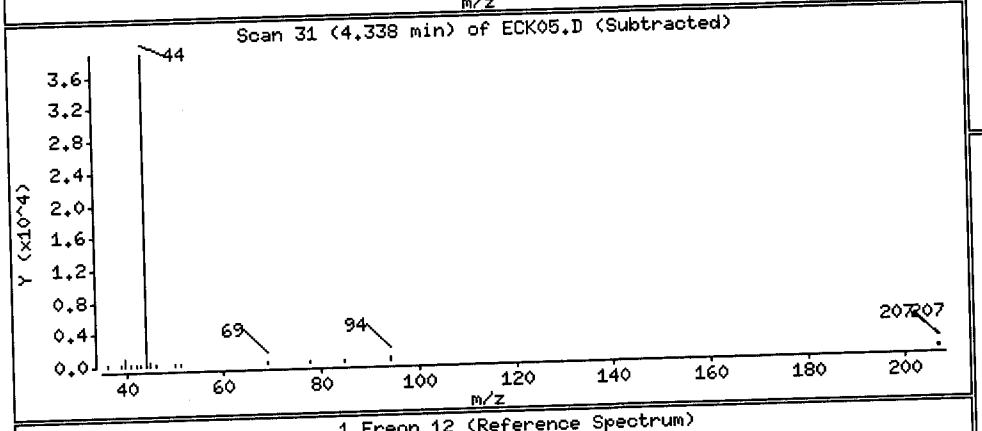
Column diameter: 0.25

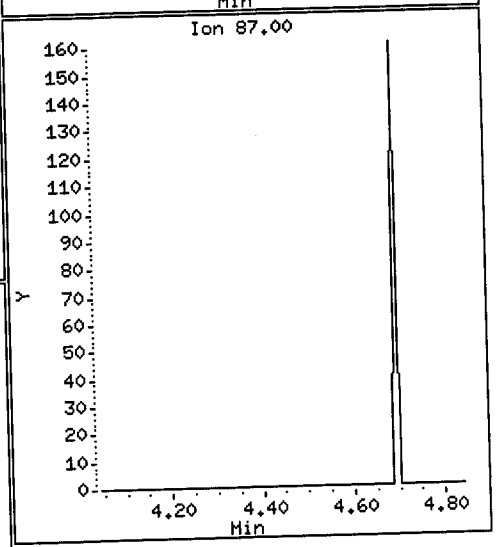
Concentration: 1.9240 UG/L

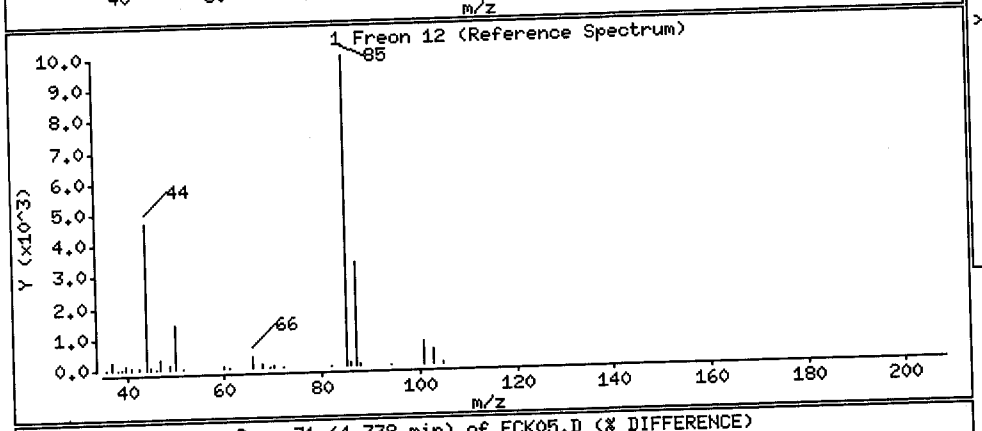
1 Freon 12

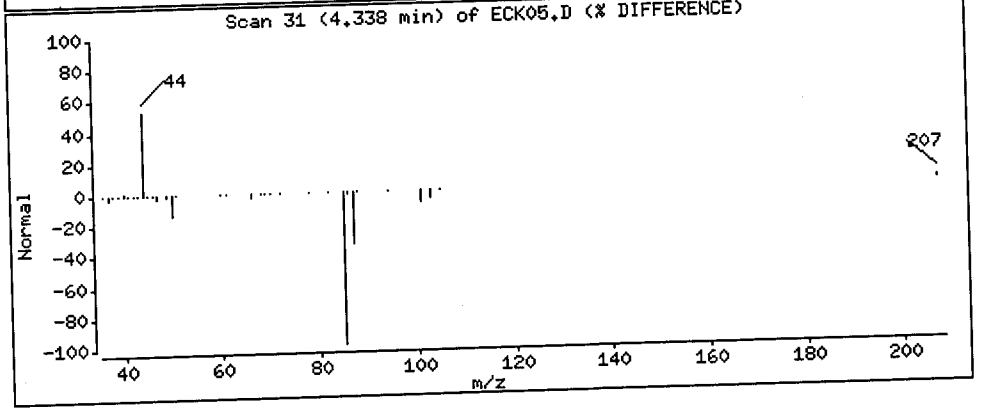












[Chloroethane; 0.83 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Operator: VOC

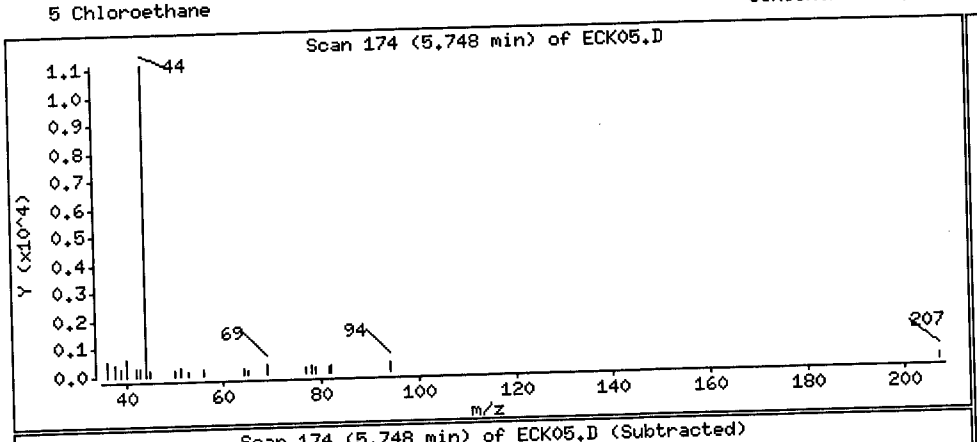
Purge Volume: 5.0

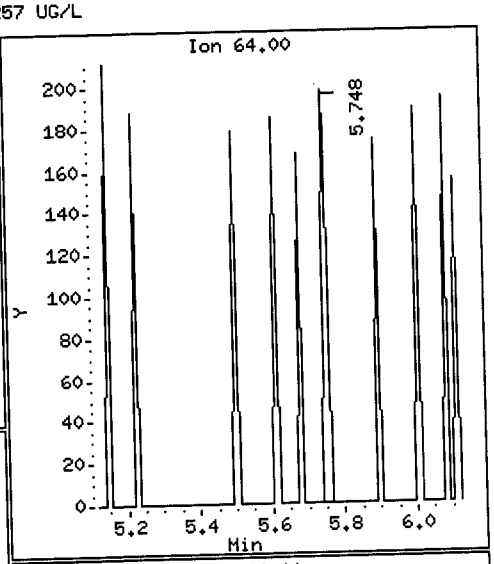
Column diameter: 0.25

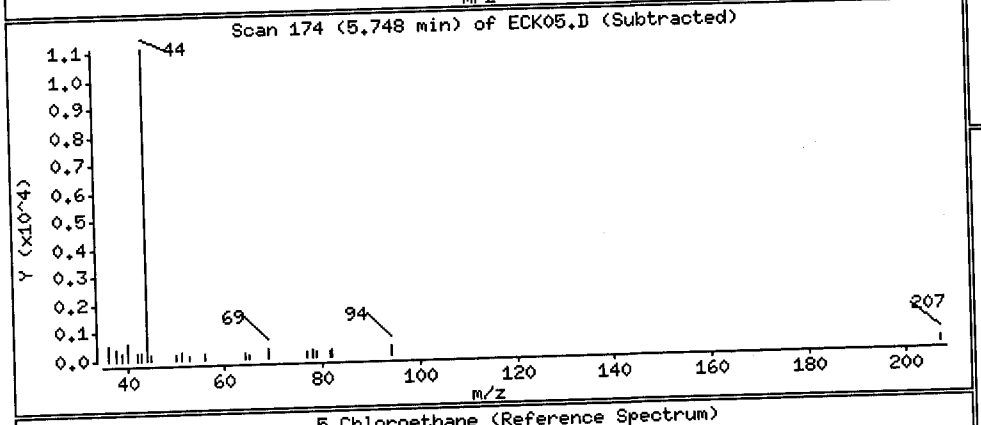
Column phase: RTX 624

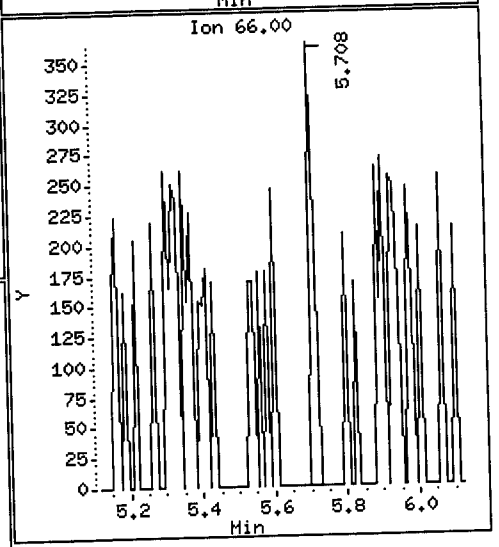
Concentration: 0.8257 UG/L

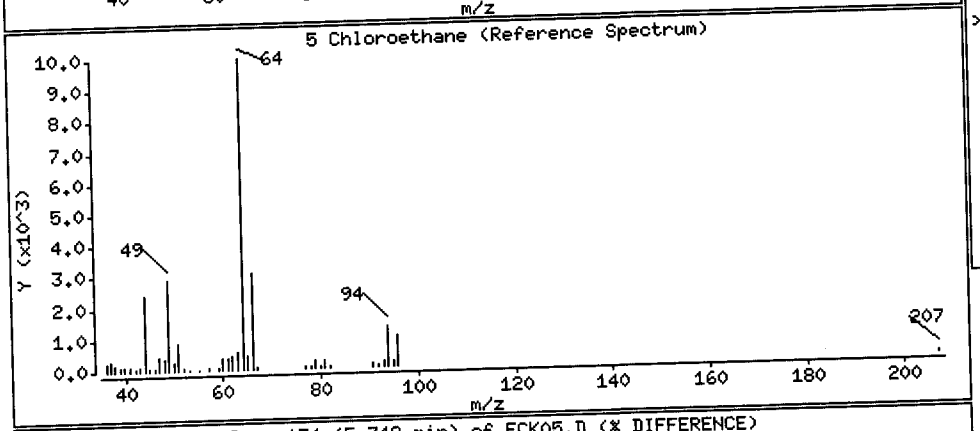
5 Chloroethane

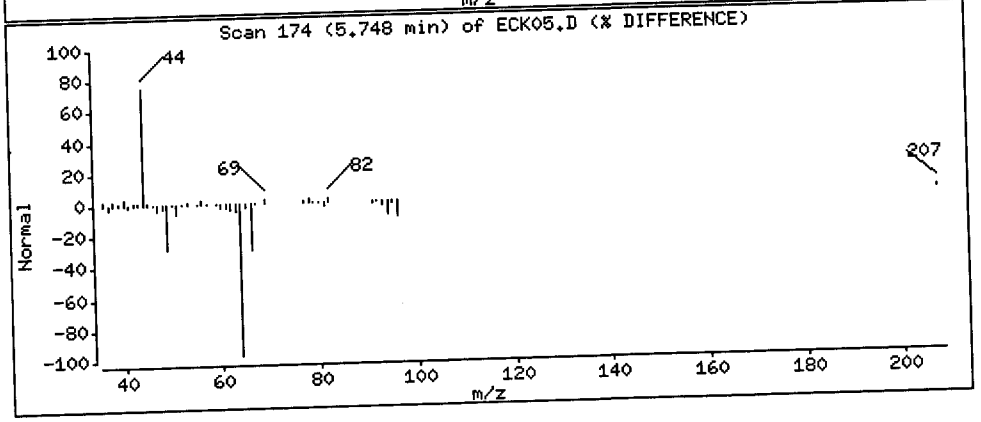












[Trichlorofluoromethane; 1.9 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Purge Volume: 5.0

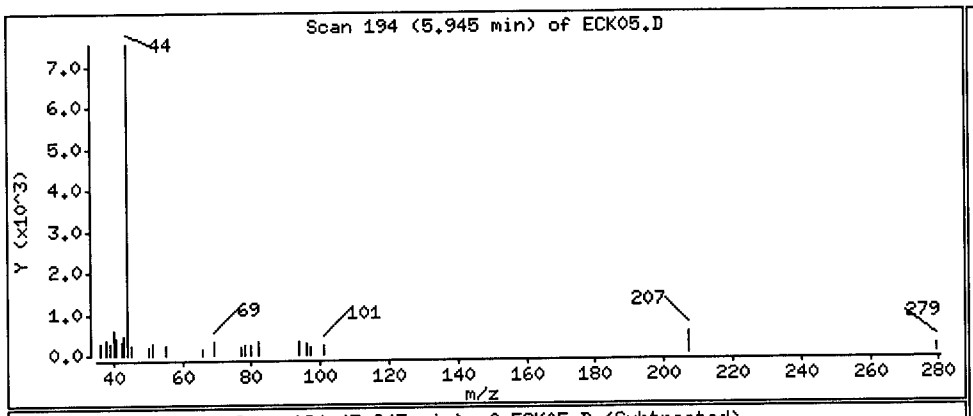
Operator: VOC

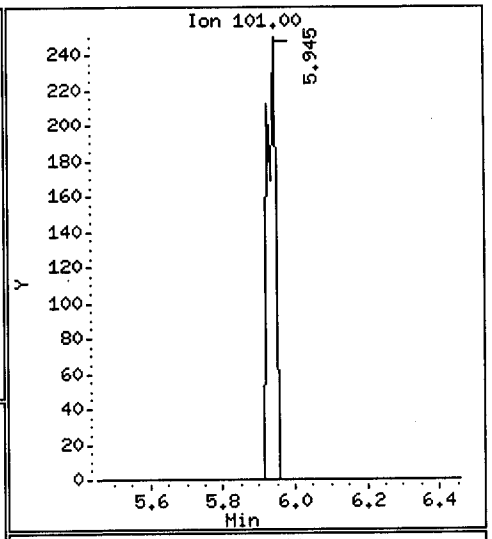
Column phase: RTX 624

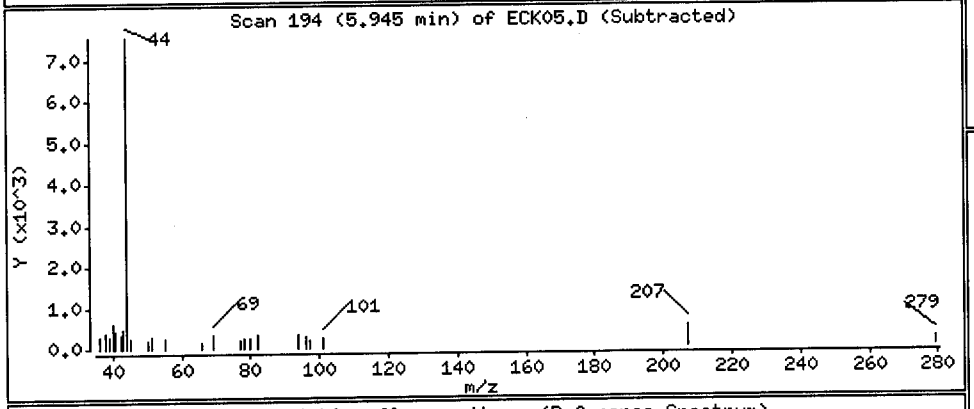
Column diameter: 0.25

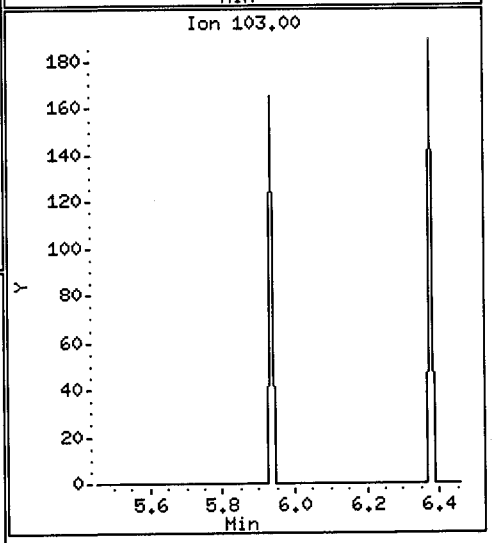
6 Trichlorofluoromethane

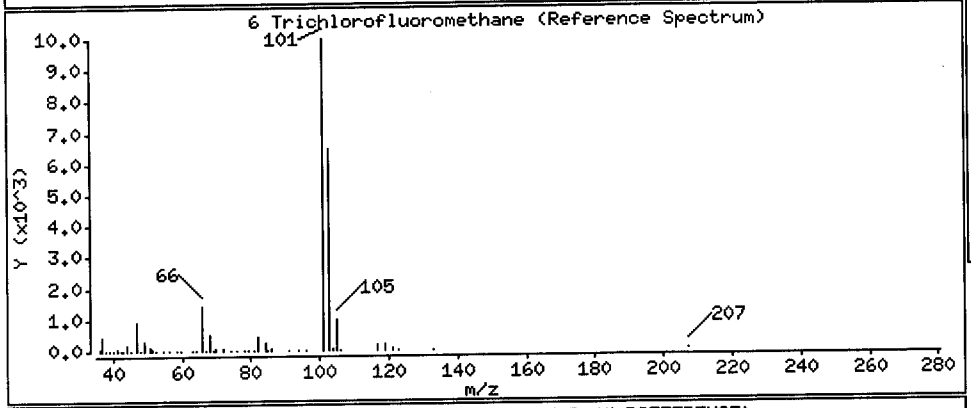
Concentration: 1.8552 UG/L

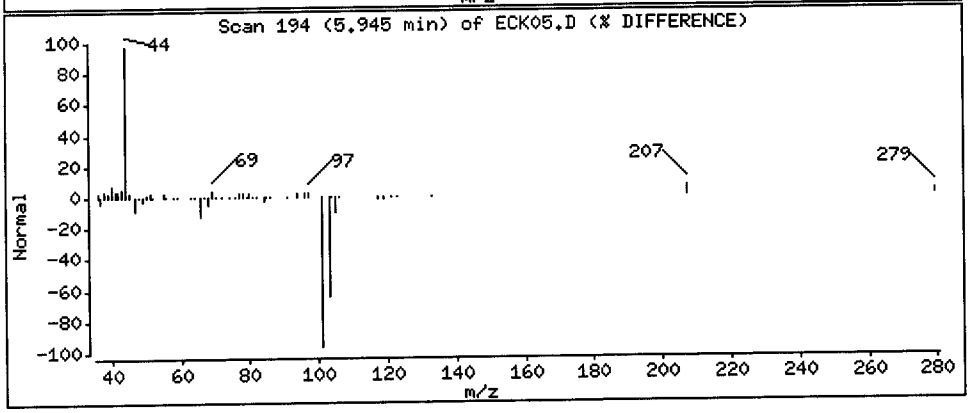












[Methylene Chloride; 0.78 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Purge Volume: 5.0

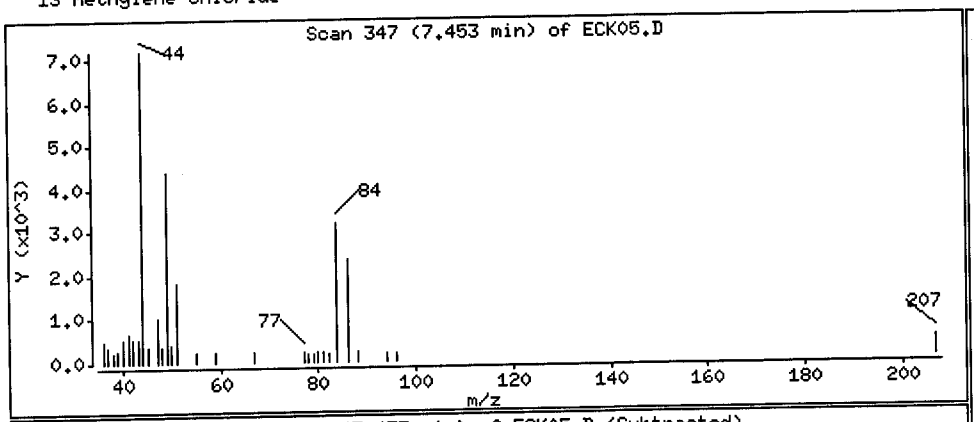
Operator: VOC

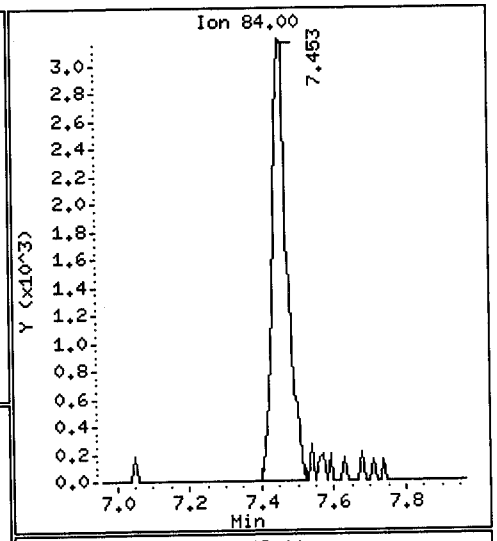
Column phase: RTX 624

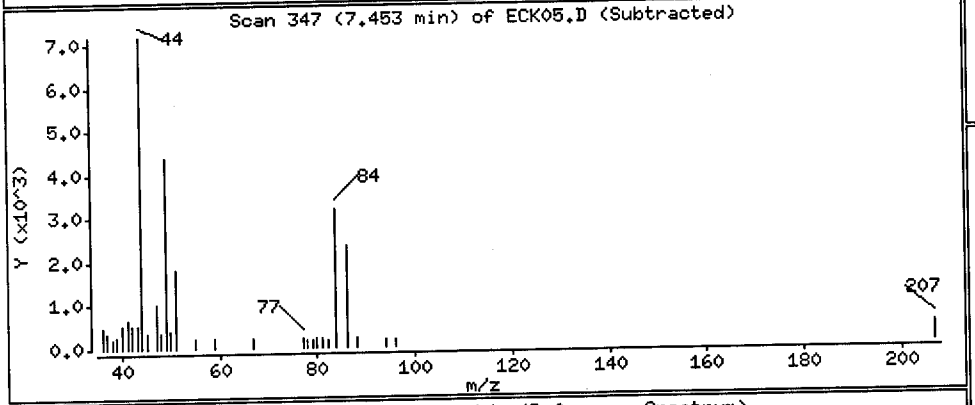
Column diameter: 0.25

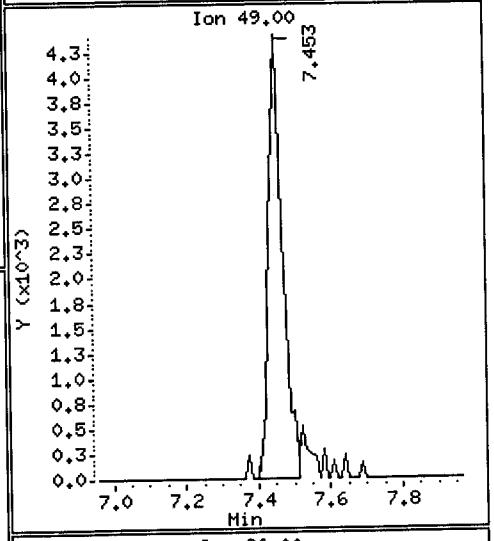
13 Methylene Chloride

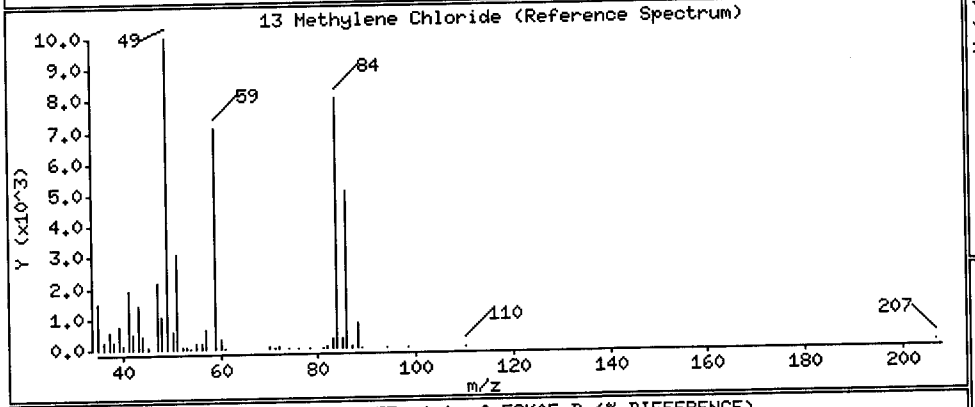
Concentration: 0.7768 UG/L

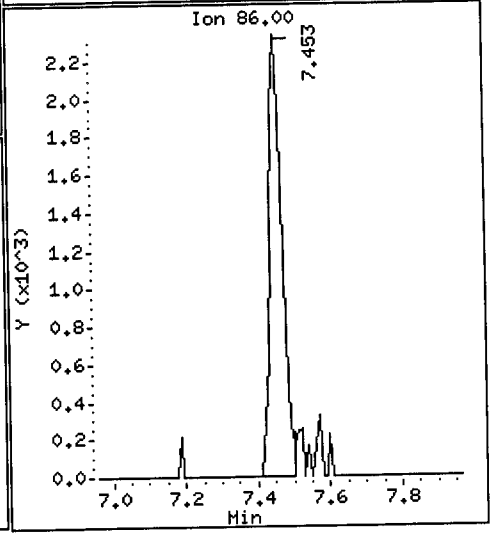


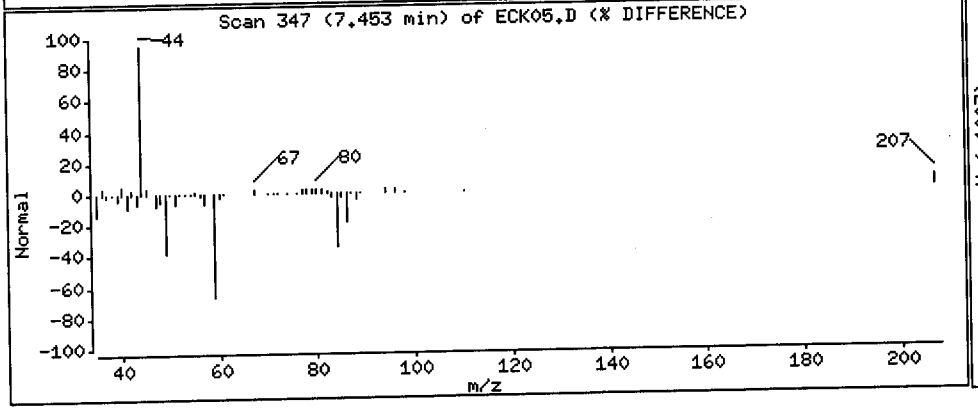












[Carbon Tetrachloride; 6.9; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Purge Volume: 5.0

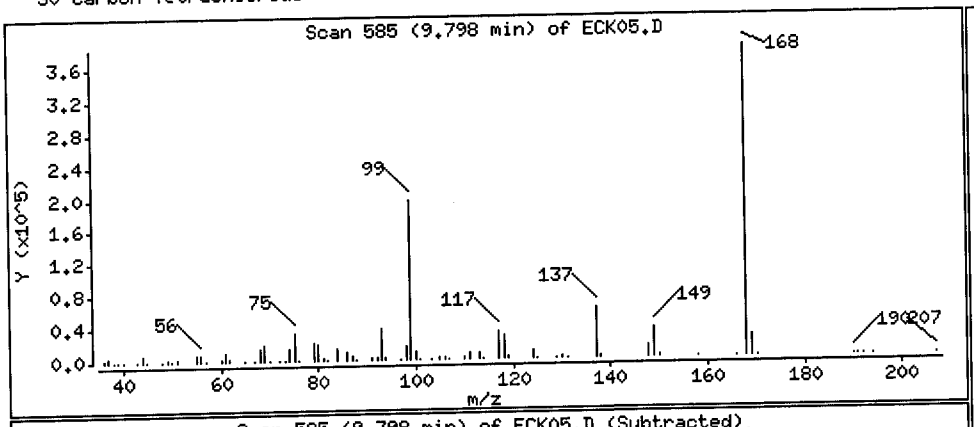
Operator: VOC

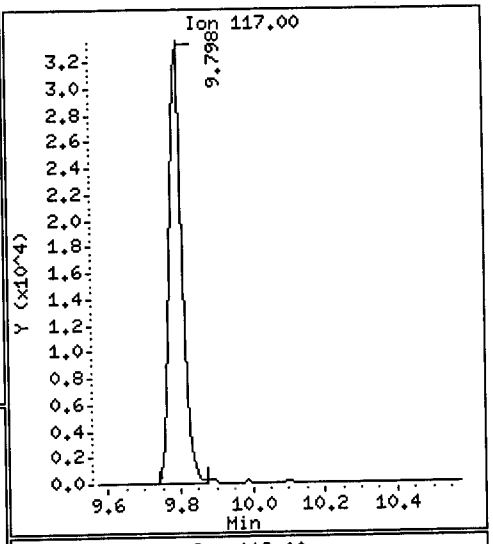
Column phase: RTX 624

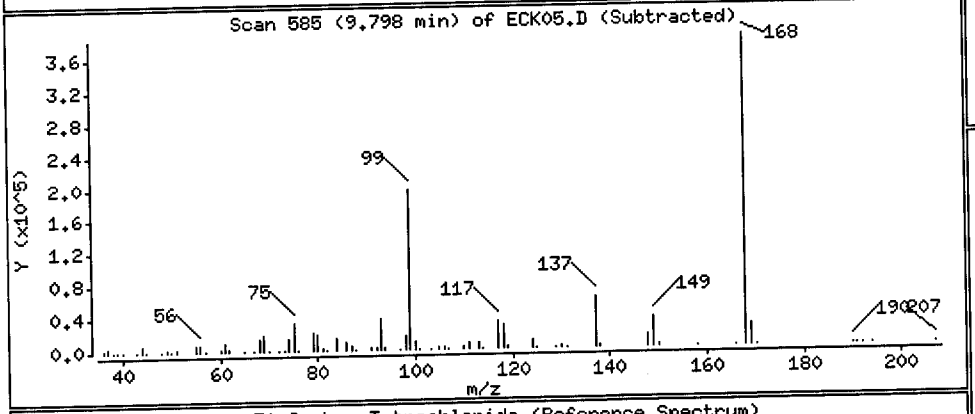
Column diameter: 0.25

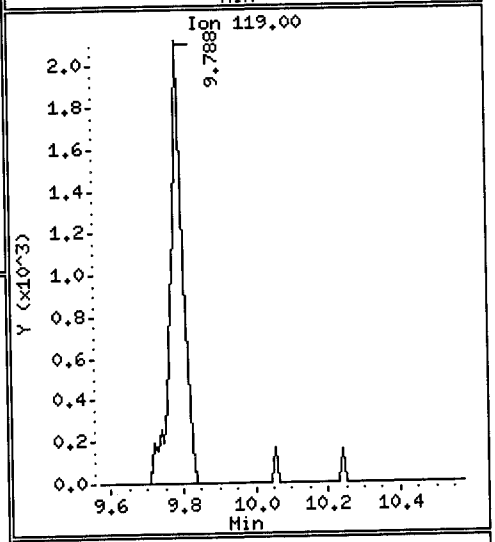
30 Carbon Tetrachloride

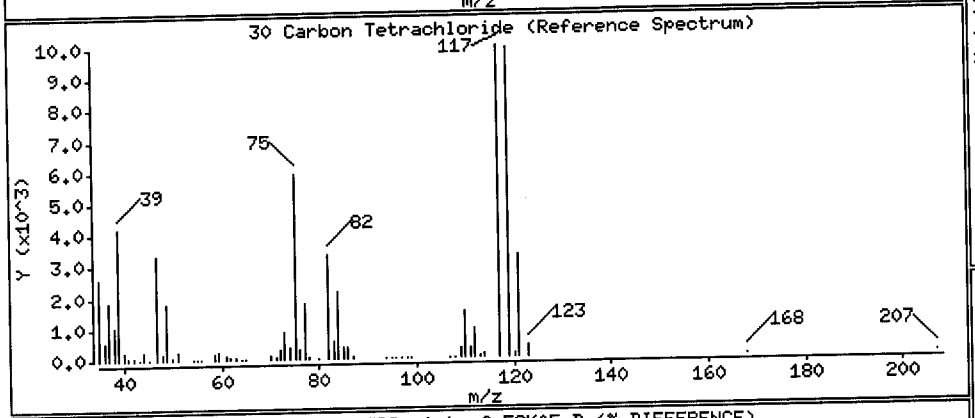
Concentration: 6.8988 UG/L

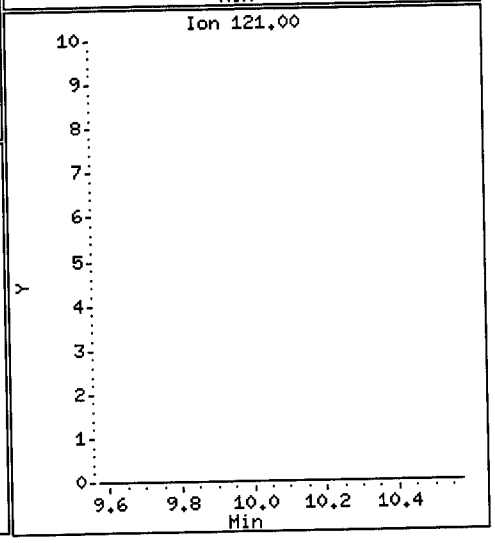


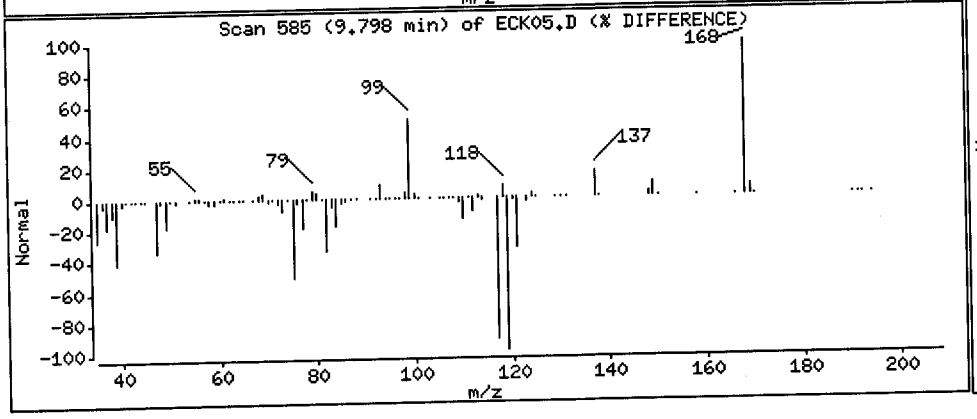












[1,1-Dichloropropene; 6.0; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Purge Volume: 5.0

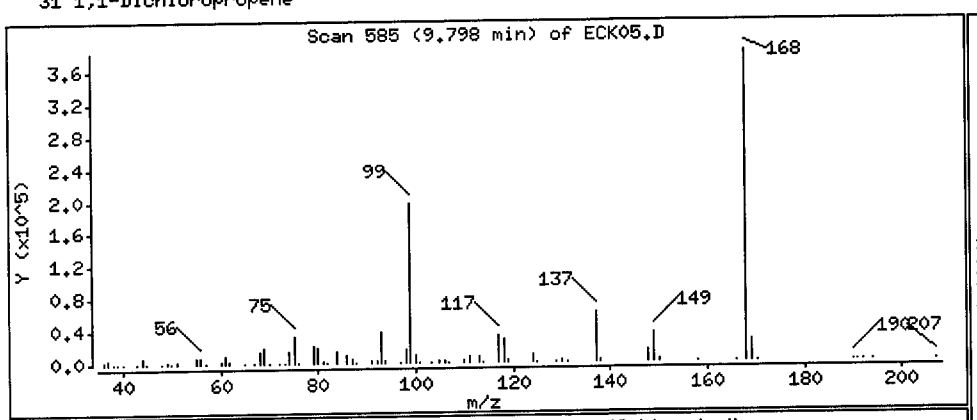
Operator: VOC

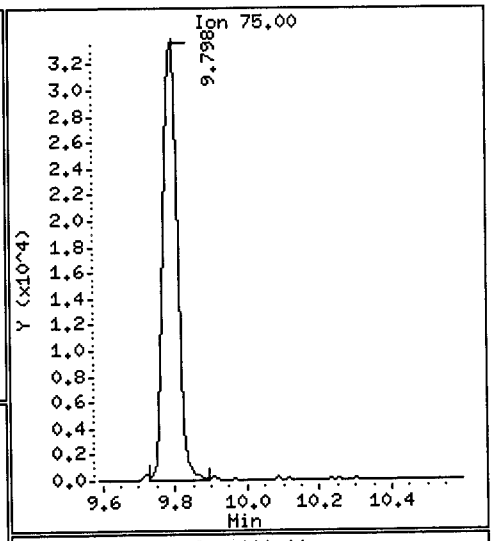
Column phase: RTX 624

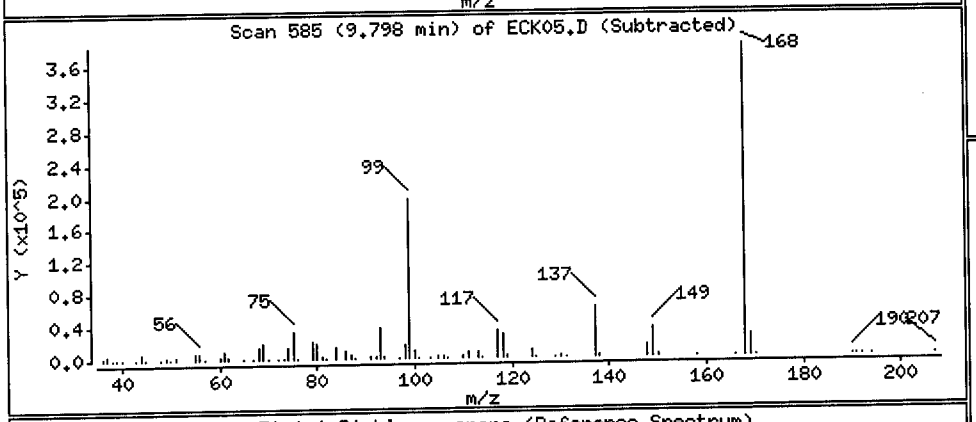
Column diameter: 0.25

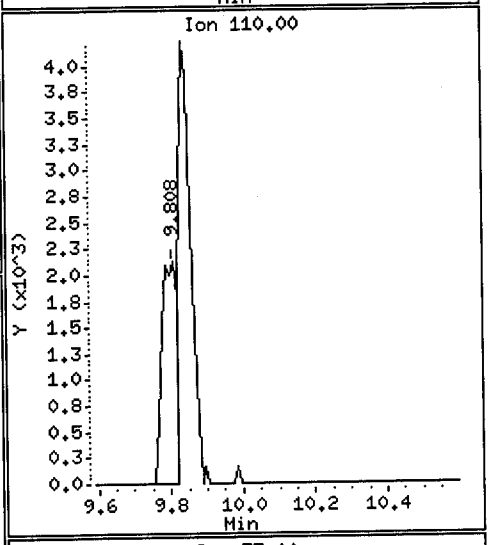
31 1,1-Dichloropropene

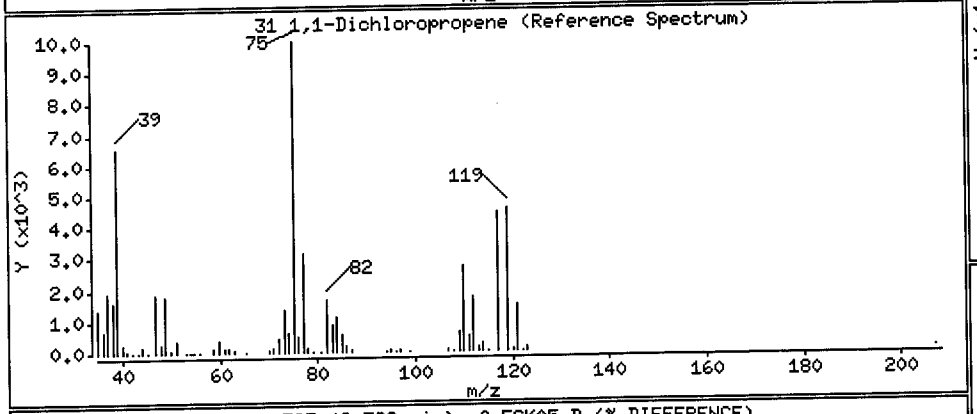
Concentration: 5.9597 UG/L

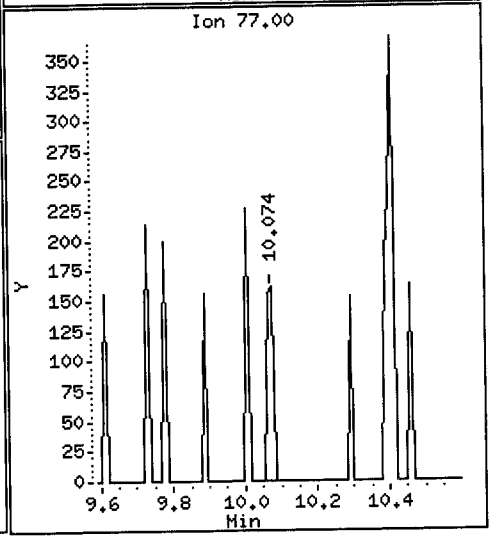


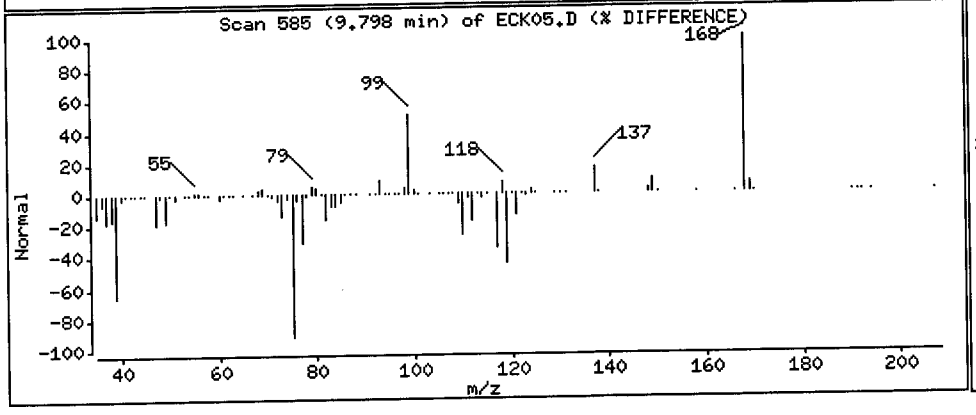












[1,2-Dichloroethane; 3.1 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Purge Volume: 5.0

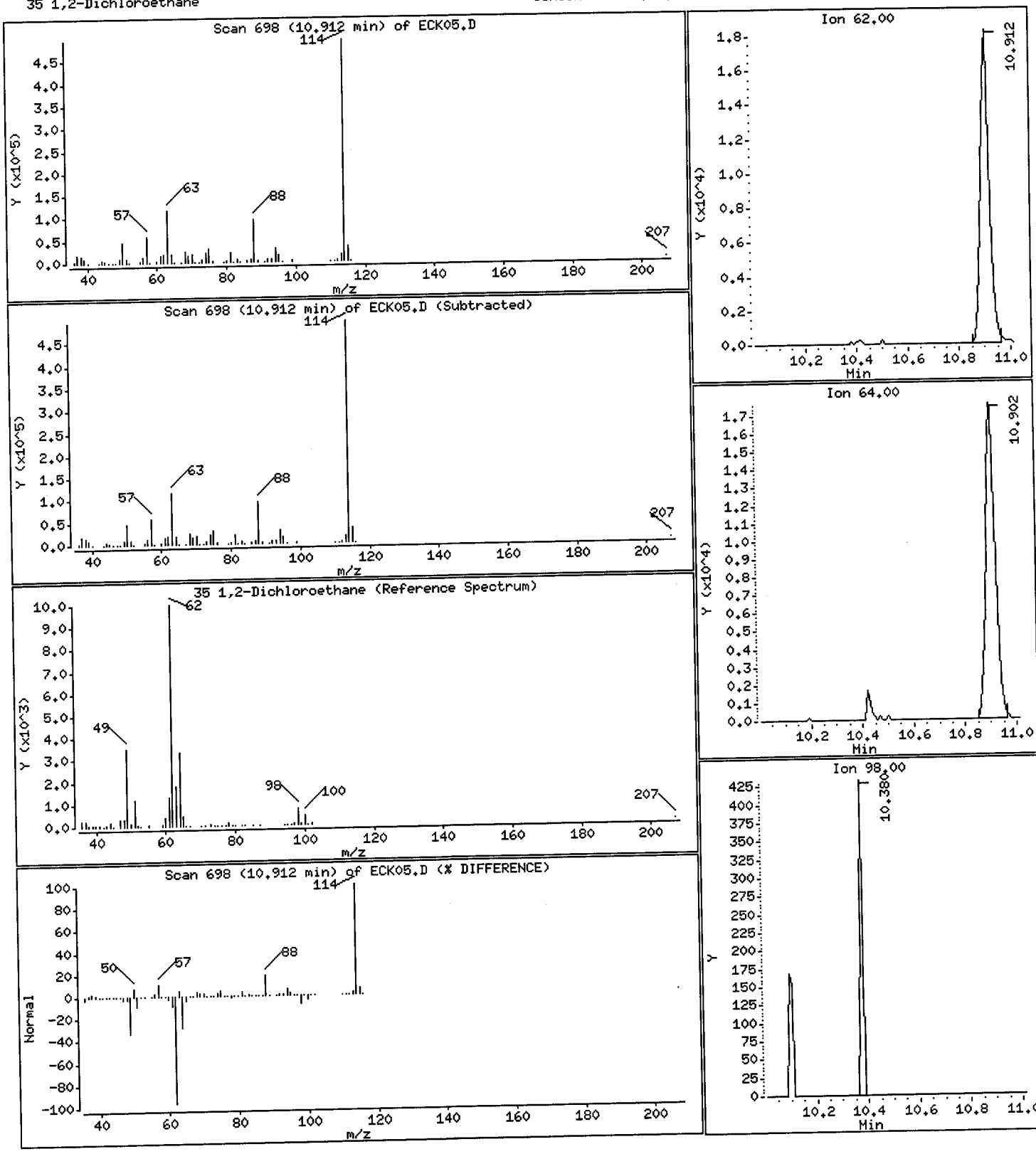
Operator: VOC

Column phase: RTX 624

Column diameter: 0.25

35 1,2-Dichloroethane

Concentration: 3.1178 UG/L



[Trichloroethene; 4.0 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Purge Volume: 5.0

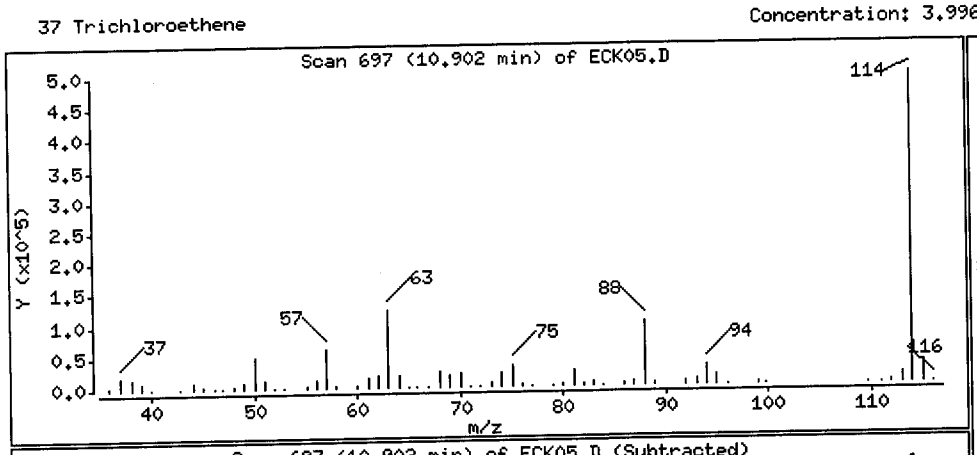
Operator: VOC

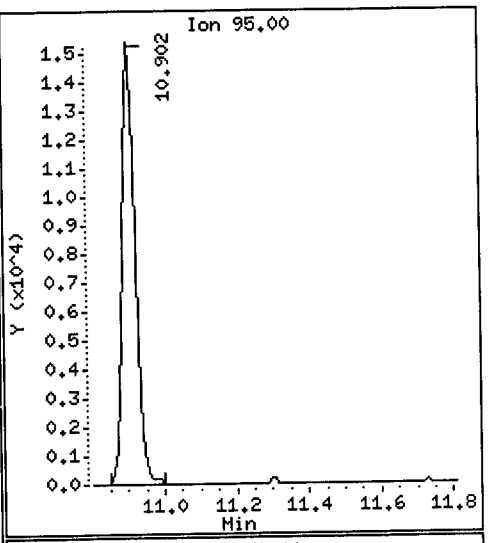
Column phase: RTX 624

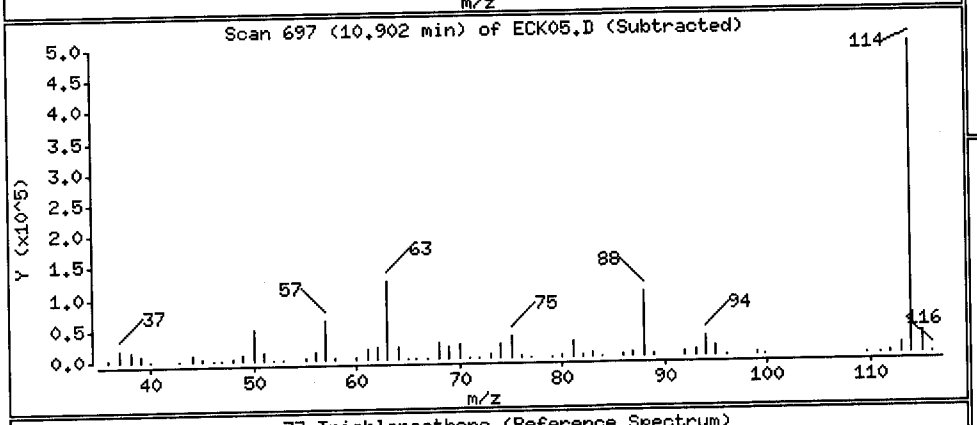
Column diameter: 0.25

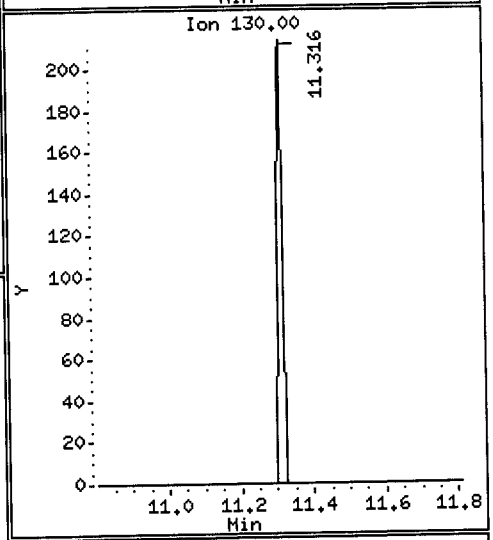
37 Trichloroethene

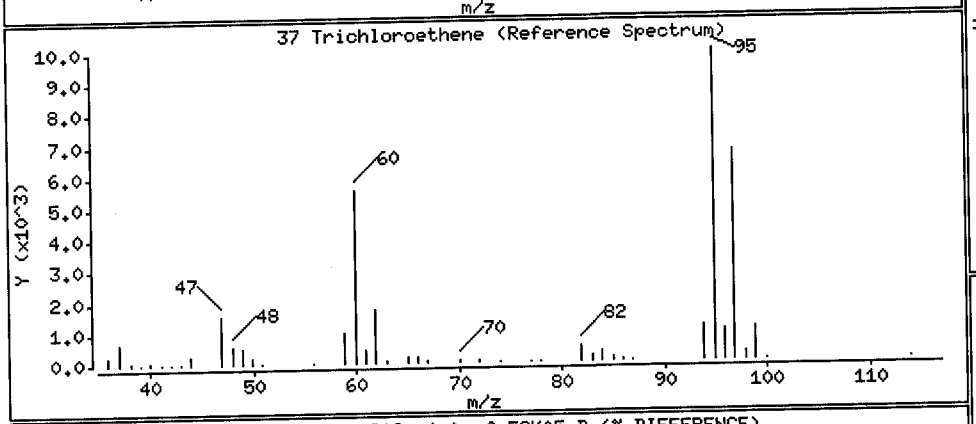
Concentration: 3.9962 UG/L

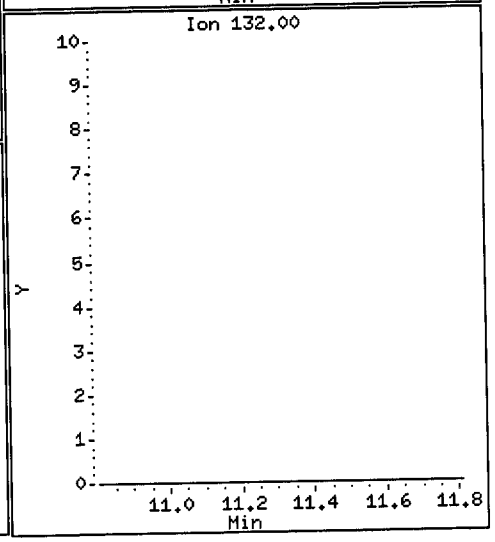


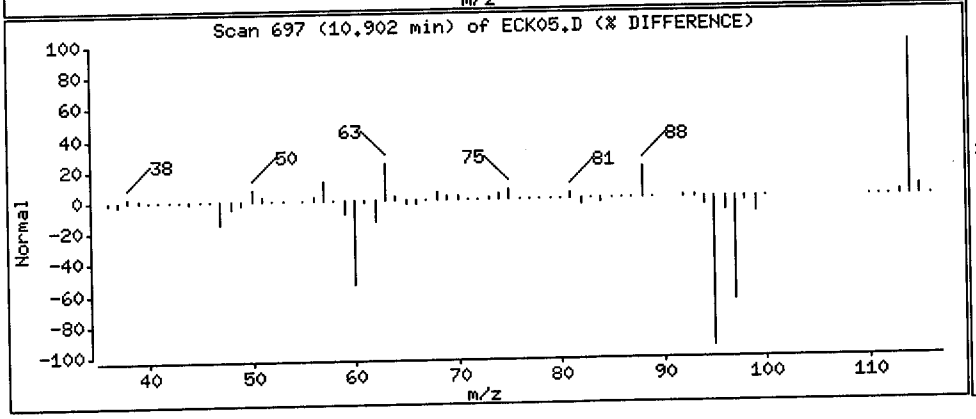












[4-Methyl-2-Pentanone; 0.77 J; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Purge Volume: 5.0

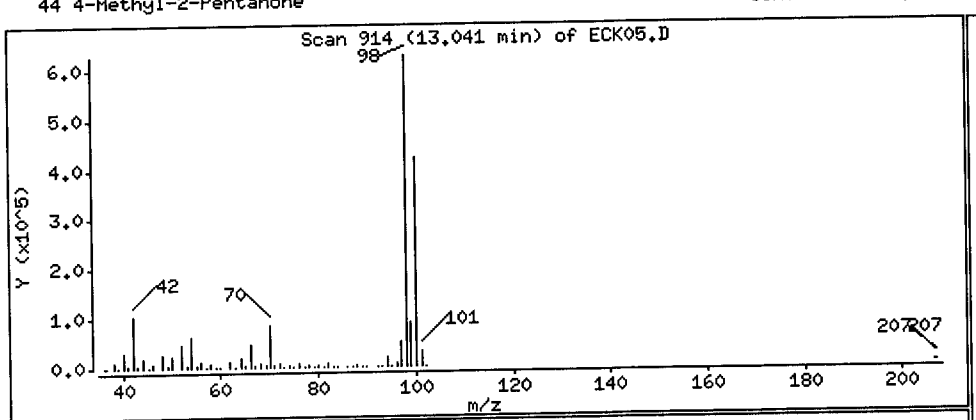
Operator: VOC

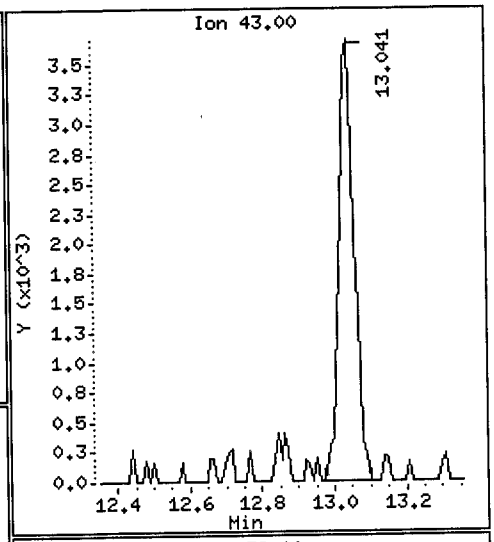
Column phase: RTX 624

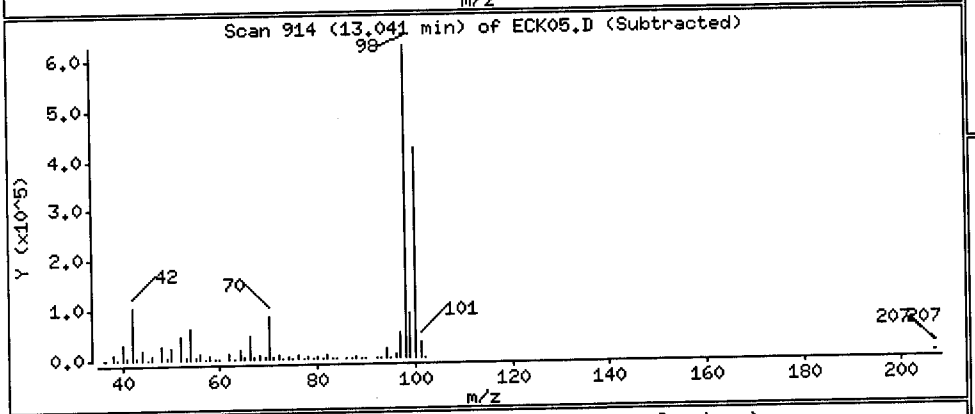
Column diameter: 0.25

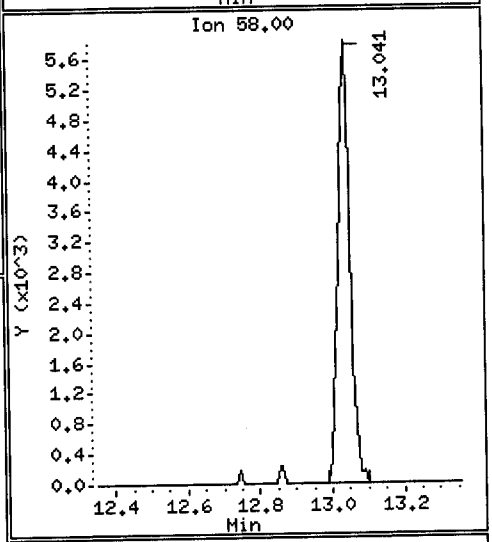
44 4-Methyl-2-Pentanone

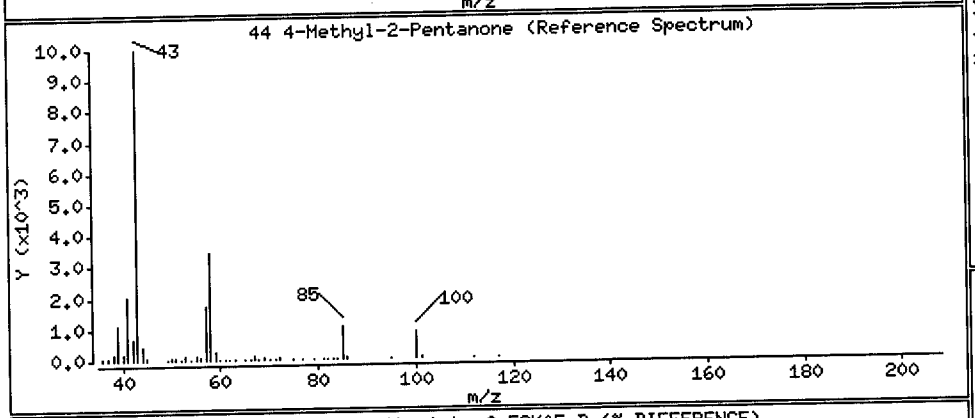
Concentration: 0.7723 UG/L

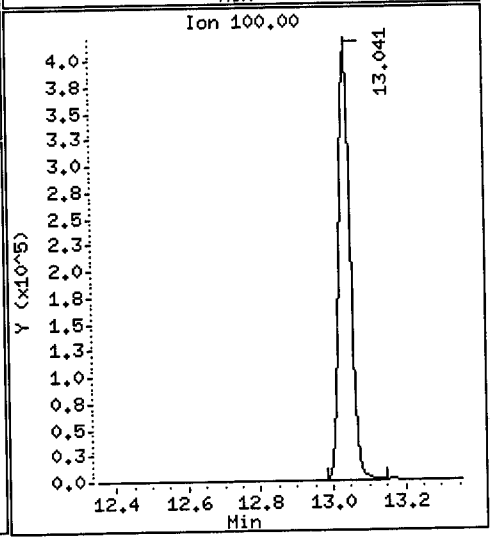


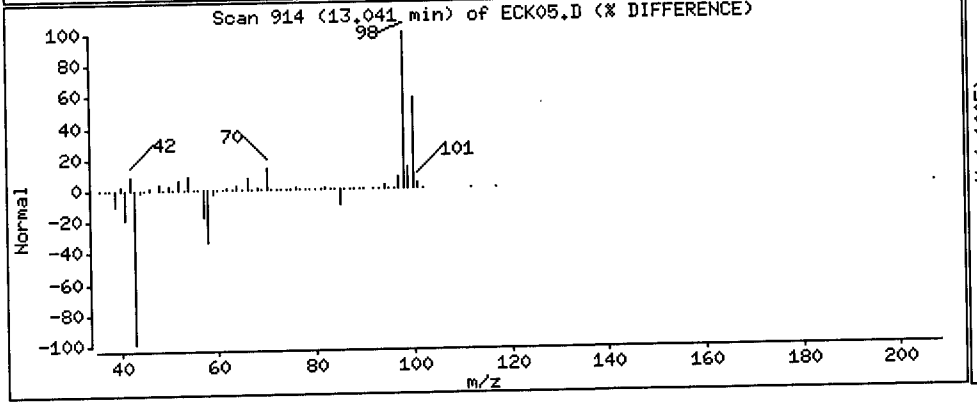












[Naphthalene; 2.0 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Purge Volume: 5.0

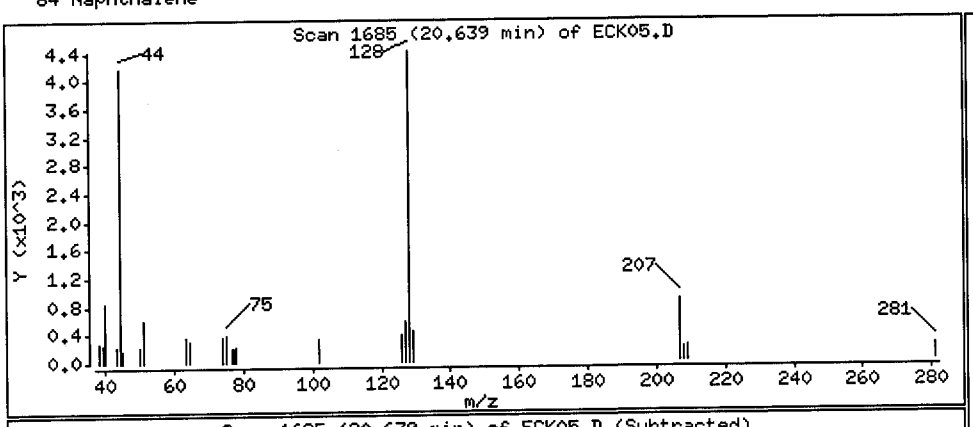
Operator: VOC

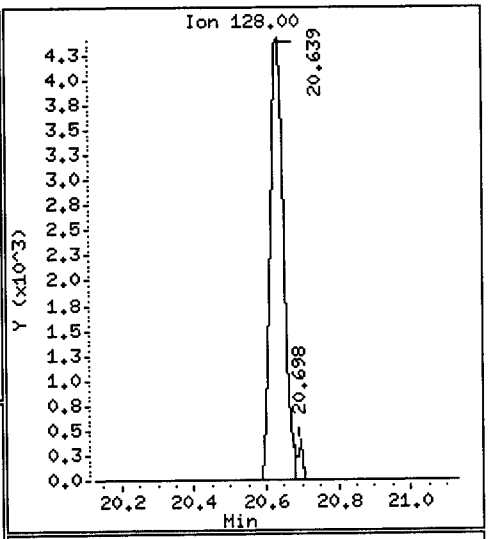
Column phase: RTX 624

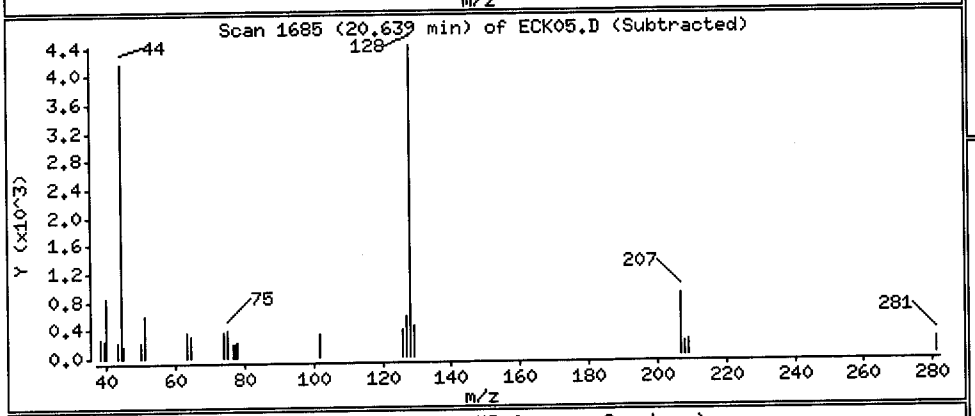
Column diameter: 0.25

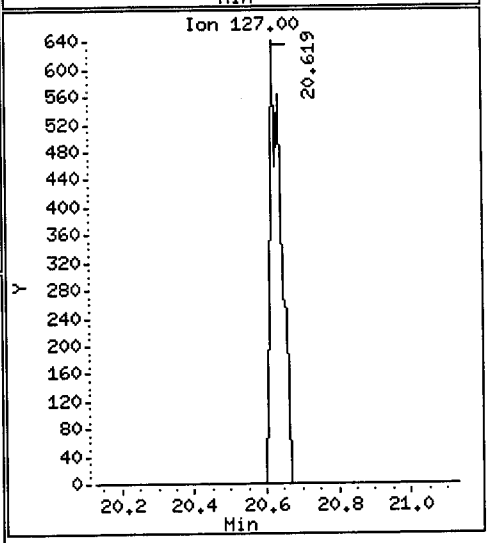
84 Naphthalene

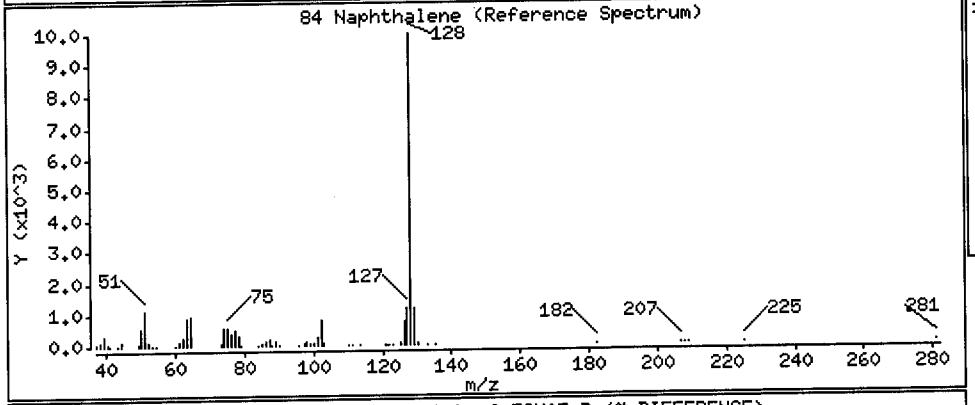
Concentration: 1.9705 UG/L

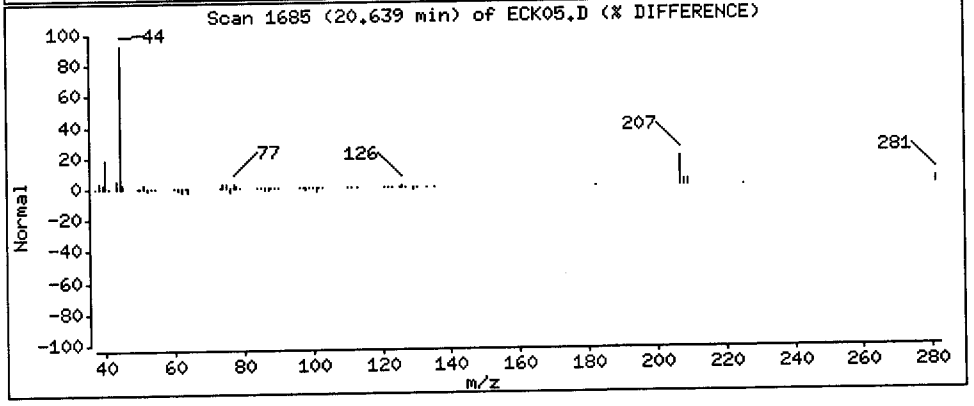












[1,2,3-Trichlorobenzene; 0.69 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK05.D

Date : 20-MAR-2008 10:25

Client ID: DYNA P&T

Instrument: MSVOA05.i

Sample Info: MB,QC433729

Purge Volume: 5.0

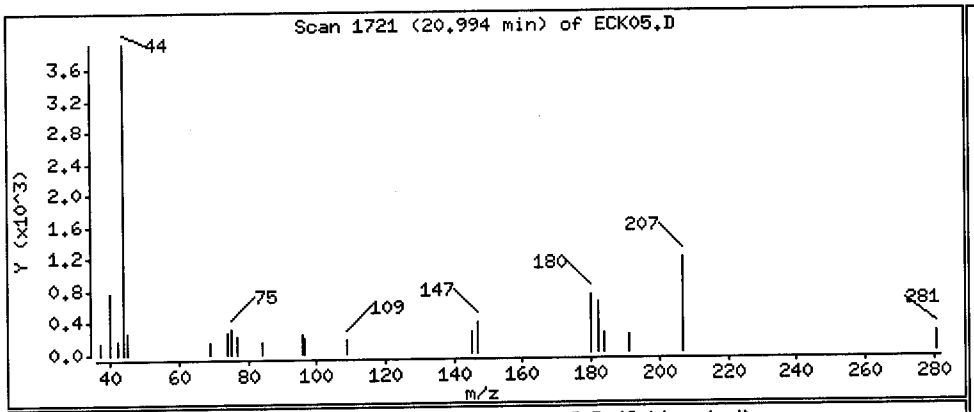
Operator: VOC

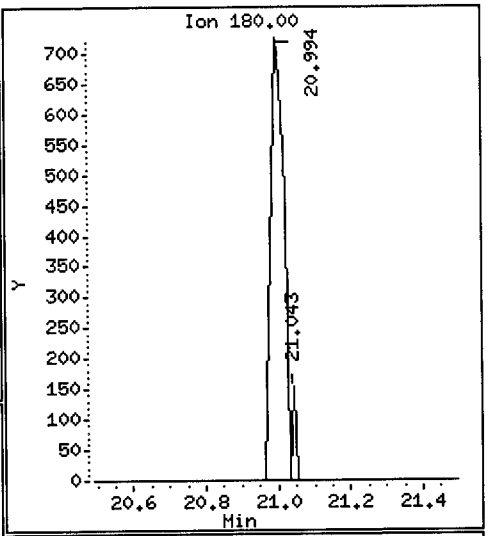
Column phase: RTX 624

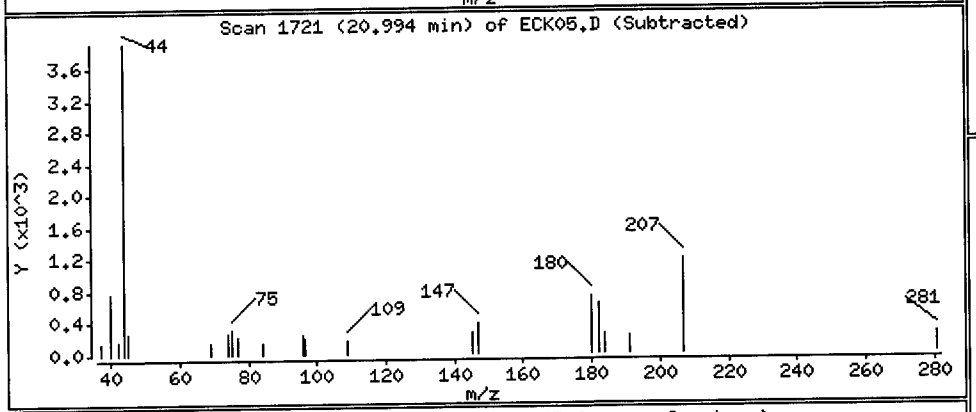
Column diameter: 0.25

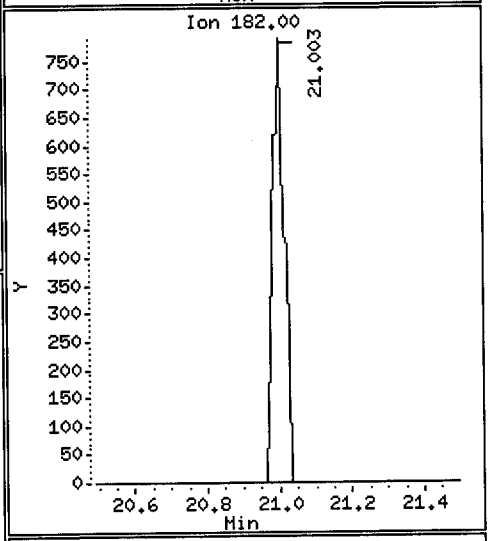
85 1,2,3-Trichlorobenzene

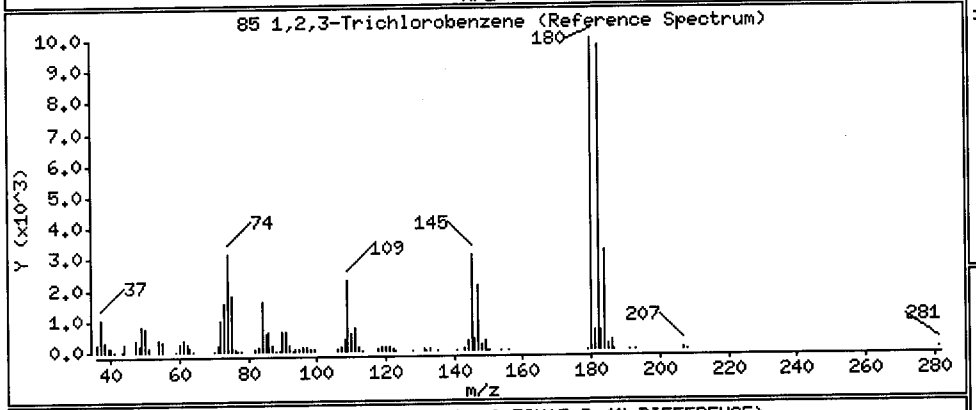
Concentration: 0.6925 UG/L

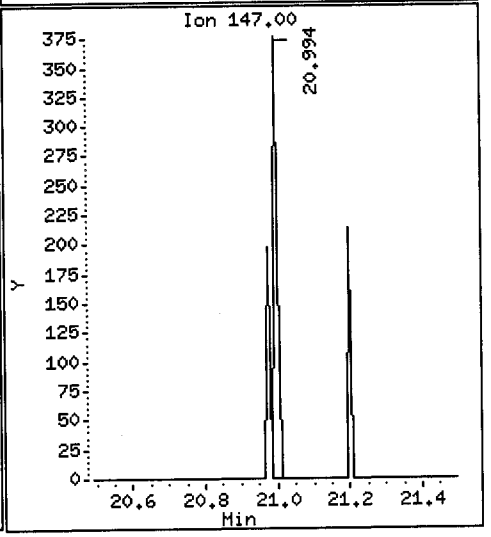


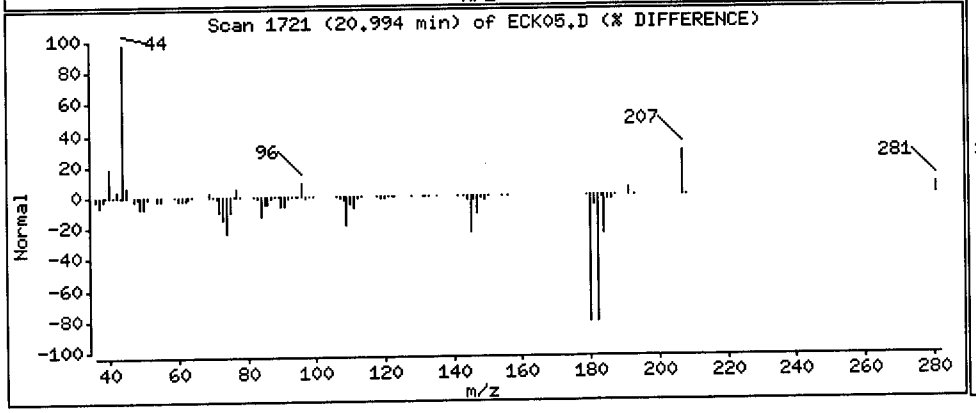












CURTIS & TOMPKINS BLANK USER REPORT FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04
Seqnum : 438117134007.1
File : dcl07
Cal : 438107113004
IDF : 1.0

Lab ID : QC433939
Matrix : Soil
Batch : 136236
Caldate : 14-MAR-2008

Time : 21-MAR-2008 11:05
Caltype : SOIL
Units : ug/Kg

Analyte	Result	RTS	RL	Flags
Freon 12	ND		10	c- u v-
Chloromethane	ND		10	u
Vinyl Chloride	ND		10	u
Bromomethane	ND		10	u
Chloroethane	ND		10	u
Trichlorofluoromethane	ND		5.0	u
Acetone	ND		20	u
Freon 113	ND		5.0	u
1,1-Dichloroethene	ND		5.0	u
Methylene Chloride	7.0 J		20	c+ u **b***
Carbon Disulfide	ND		5.0	u
MTBE	ND		5.0	u
trans-1,2-Dichloroethene	ND		5.0	u
Vinyl Acetate	ND		50	u
1,1-Dichloroethane	ND		5.0	u
2-Butanone	ND		10	u
cis-1,2-Dichloroethene	ND		5.0	u
2,2-Dichloropropane	ND		5.0	u
Chloroform	ND		5.0	u
Bromochloromethane	ND		5.0	u
1,1,1-Trichloroethane	ND		5.0	u
1,1-Dichloropropene	5.1	-0.296	5.0	u **x**
Carbon Tetrachloride	7.2	-0.276	5.0	u **x**
1,2-Dichloroethane	ND		5.0	u
Benzene	ND		5.0	u
Trichloroethene	ND		5.0	u
1,2-Dichloropropane	ND		5.0	u
Bromodichloromethane	ND		5.0	u
Dibromomethane	ND		5.0	u
4-Methyl-2-Pentanone	ND		10	u
cis-1,3-Dichloropropene	ND		5.0	u
Toluene	ND		5.0	u
trans-1,3-Dichloropropene	ND		5.0	u
1,1,2-Trichloroethane	ND		5.0	u
2-Hexanone	ND		10	u
1,3-Dichloropropane	ND		5.0	u
Tetrachloroethene	ND		5.0	u
Dibromochloromethane	ND		5.0	u
1,2-Dibromoethane	ND		5.0	u
Chlorobenzene	ND		5.0	u
1,1,1,2-Tetrachloroethane	ND		5.0	u
Ethylbenzene	ND		5.0	u
m,p-Xylenes	ND		5.0	u
o-Xylene	ND		5.0	u
Styrene	ND		5.0	u
Bromoform	ND		5.0	u
Isopropylbenzene	ND		5.0	u
1,1,2,2-Tetrachloroethane	ND		5.0	u

438117134007.1

Analyte	Result	RTS	RL	Flags
1,2,3-Trichloropropane	ND		5.0	u
Propylbenzene	ND		5.0	u
Bromobenzene	ND		5.0	u
1,3,5-Trimethylbenzene	ND		5.0	u
2-Chlorotoluene	ND		5.0	u
4-Chlorotoluene	ND		5.0	u
tert-Butylbenzene	0.72 J		5.0	u
1,2,4-Trimethylbenzene	0.58 J		5.0	u
sec-Butylbenzene	0.66 J		5.0	u
para-Isopropyl Toluene	0.69 J		5.0	u
1,3-Dichlorobenzene	ND		5.0	u
1,4-Dichlorobenzene	ND		5.0	u
n-Butylbenzene	0.55 J		5.0	u
1,2-Dichlorobenzene	ND		5.0	u
1,2-Dibromo-3-Chloropropane	ND		5.0	u
1,2,4-Trichlorobenzene	ND		5.0	u
Hexachlorobutadiene	ND		5.0	c- u
Naphthalene	0.98 J		5.0	u
1,2,3-Trichlorobenzene	ND		5.0	u

Surrogate	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	50.00	52.21	104	78-126	u
1,2-Dichloroethane-d4	50.00	51.92	104	76-137	u
Toluene-d8	50.00	51.87	104	80-120	u
Bromofluorobenzene	50.00	52.09	104	80-121	u

ISTD (ICAL dce12)	ICAL Area	BLANK Area	%Drift	ICAL RT	BLANK RT	Drift
Pentafluorobenzene	402255	455095	13.14	10.00	9.98	-0.02
1,4-Difluorobenzene	600047	665373	10.89	11.12	11.09	-0.03
Chlorobenzene-d5	504409	609091	20.75	15.22	15.20	-0.02
1,4-Dichlorobenzene-d4	272365	334763	22.91	17.95	17.93	-0.02

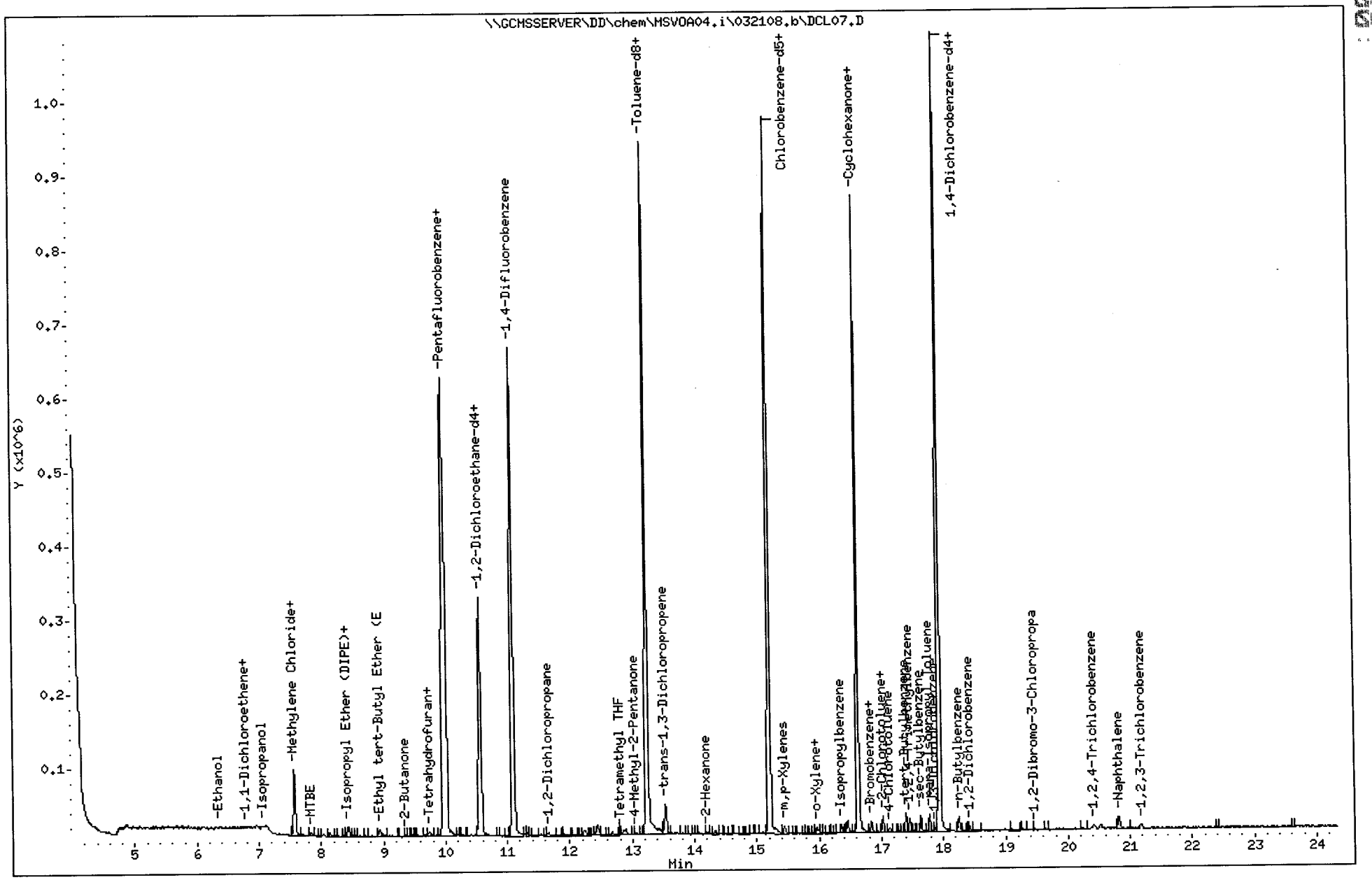
Analyst: MJD Date: 03/21/08 Reviewer: ACM Date: 03/21/08

+=high bias -=low bias b=noncompliant c=CCV u=use v=ICV x=false positive

438117134007.1

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D
Date : 21-MAR-2008 11:05
Client ID: DYNA P&T
Sample Info: BLANK,QC433939,136236,1/1
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i
Operator: VOC
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D
Report Date: 21-Mar-2008 11:43

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D
Lab Smp Id:
Inj Date : 21-MAR-2008 11:05
Operator : VOC
Smp Info : BLANK,QC433939,136236,1/1
Misc Info :
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\826GOX4S.m
Meth Date : 21-Mar-2008 09:53 msvoa04
Cal Date : 14-MAR-2008 18:54
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.03
Processing Host: GCMSSERVER

Client Smp ID: DYNA P&T
MS Autotune Date: 12-MAR-2008 09:04
Inst ID: MSVOA04.i

Quant Type: ISTD
Cal File: DCE15.D

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	7 Ethanol	45	6.357	6.350	(0.637)	582	5.02012	5.0201
	9 1,1-Dichloroethene	96	6.781	6.863	(0.680)	975	0.17182	0.1718
	10 Acetone	43	6.948	6.981	(0.697)	3399	1.03558	1.0355
	11 Isopropanol	45	7.057	7.070	(0.707)	2455	3.44221	3.4422
	13 Methylene Chloride	84	7.570	7.602	(0.759)	49301	7.04459	7.0445
	14 tert-Butyl Alcohol (TBA)	59	7.639	7.632	(0.766)	112	0.11431	0.1143
	15 MTBE	73	7.836	7.858	(0.785)	4685	0.27095	0.2709
	17 Isopropyl Ether (DIPE)	45	8.438	8.470	(0.846)	14017	0.60724	0.6072
	18 Vinyl Acetate	43	8.428	8.529	(0.845)	7661	0.52392	0.5239
	20 Ethyl tert-Butyl Ether (ETBE)	59	8.941	8.963	(0.896)	9452	0.49218	0.4921
	21 2-Butanone	43	9.345	9.377	(0.937)	1822	0.46171	0.4617
	25 Tetrahydrofuran	42	9.739	9.761	(0.976)	4720	2.11784	2.1178
	26 Chloroform	83	9.759	9.791	(0.978)	1530	0.13393	0.1339
*	27 Pentafluorobenzene	168	9.976	10.007	(1.000)	455095	50.0000	
	28 Dibromofluoromethane	113	10.006	10.037	(1.003)	270427	52.2057	52.2056
	30 Carbon Tetrachloride	117	9.966	10.274	(0.899)	46583	7.17758	7.1775

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D
Report Date: 21-Mar-2008 11:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	31 1,1-Dichloropropene	75	9.966	10.293	(0.899)	39919	5.05219	5.0521
	32 1,2-Dichloroethane-d4	65	10.558	10.589	(0.952)	305374	51.9160	51.9159
	33 Benzene	78	10.578	10.599	(0.954)	2835	0.13528	0.1352
	34 Methyl tert-Amyl Ether (TAME)	73	10.597	10.619	(0.956)	7681	0.52033	0.5203
*	36 1,4-Difluorobenzene	114	11.090	11.121	(1.000)	665373	50.0000	
	39 1,2-Dichloropropane	63	11.662	11.930	(1.052)	751	0.12266	0.1226
	43 Tetramethyl THF	43	12.846	12.876	(1.158)	6592	0.45140	0.4513
	45 4-Methyl-2-Pentanone	43	13.073	13.073	(1.179)	1060	0.12993	0.1299
	46 Toluene-d8	98	13.230	13.261	(1.193)	717566	51.8665	51.8665
	47 Toluene	92	13.329	13.349	(1.202)	1335	0.10770	0.1076
	48 trans-1,3-Dichloropropene	75	13.526	13.694	(1.220)	1104	0.12666	0.1266
	51 2-Hexanone	43	14.197	14.207	(0.934)	1903	0.30093	0.3009
*	55 Chlorobenzene-d5	117	15.203	15.223	(1.000)	609091	50.0000	
	57 Ethylbenzene	91	15.301	15.321	(1.006)	3118	0.12945	0.1294
	59 m,p-Xylenes	106	15.449	15.469	(1.016)	2585	0.28966	0.2896
	60 o-Xylene	106	15.952	15.972	(1.049)	1222	0.13408	0.1340
	61 Styrene	104	15.982	16.001	(1.051)	2330	0.14947	0.1494
	63 Isopropylbenzene	105	16.357	16.376	(0.912)	7055	0.30348	0.3034
	64 Cyclohexanone	55	16.613	16.613	(0.926)	2659	1.88677	1.8867
	65 Bromofluorobenzene	95	16.623	16.642	(0.927)	327792	52.0897	52.0897
	67 Bromobenzene	156	16.820	16.839	(0.938)	804	0.11888	0.1188
	68 Propylbenzene	91	16.830	16.849	(0.938)	10475	0.36638	0.3663
	69 1,2,3-Trichloropropane	75	16.860	16.879	(0.940)	1176	0.17701	0.1770
	70 2-Chlorotoluene	91	17.008	17.027	(0.948)	4437	0.23031	0.2303
	71 1,3,5-Trimethylbenzene	105	17.017	17.036	(0.949)	9775	0.52125	0.5212
	72 4-Chlorotoluene	91	17.126	17.145	(0.955)	3803	0.20903	0.2090
	73 tert-Butylbenzene	119	17.392	17.411	(0.970)	11992	0.71980	0.7198
	74 1,2,4-Trimethylbenzene	105	17.461	17.470	(0.974)	11034	0.57597	0.5759
	75 sec-Butylbenzene	105	17.639	17.658	(0.984)	16621	0.65851	0.6585
	76 para-Isopropyl Toluene	119	17.777	17.796	(0.991)	14526	0.68831	0.6883
	77 1,3-Dichlorobenzene	146	17.866	17.884	(0.996)	2505	0.20309	0.2030
*	78 1,4-Dichlorobenzene-d4	152	17.935	17.953	(1.000)	334763	50.0000	
	79 1,4-Dichlorobenzene	146	17.964	17.983	(1.002)	2512	0.20426	0.2042
	80 n-Butylbenzene	91	18.250	18.269	(1.018)	12055	0.55304	0.5530
	81 1,2-Dichlorobenzene	146	18.418	18.436	(1.027)	2052	0.17427	0.1742
	82 1,2-Dibromo-3-Chloropropane	75	19.374	19.383	(1.080)	632	0.34455	0.3445
	83 1,2,4-Trichlorobenzene	180	20.420	20.438	(1.139)	2682	0.31195	0.3119
	85 Naphthalene	128	20.814	20.842	(1.161)	19328	0.97817	0.9781
	86 1,2,3-Trichlorobenzene	180	21.189	21.197	(1.181)	2744	0.34500	0.3449

[Methylene Chloride; 7.0 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D

Date : 21-MAR-2008 11:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: BLANK,QC433939,136236,1/1

Purge Volume: 5.0

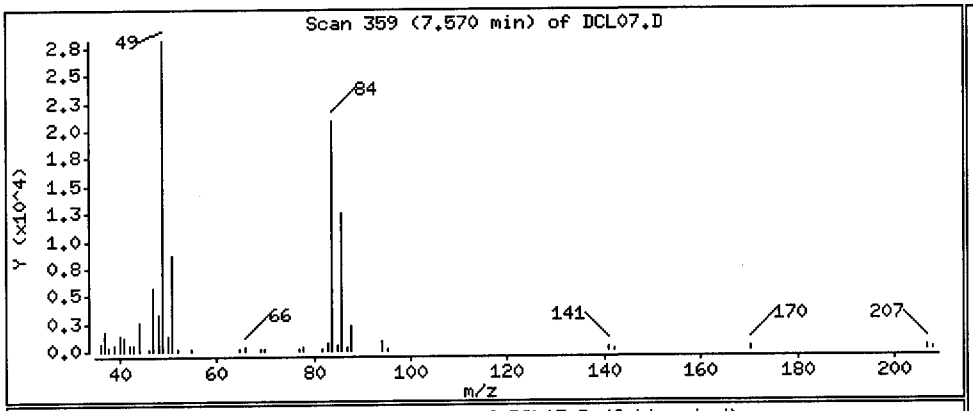
Operator: VOC

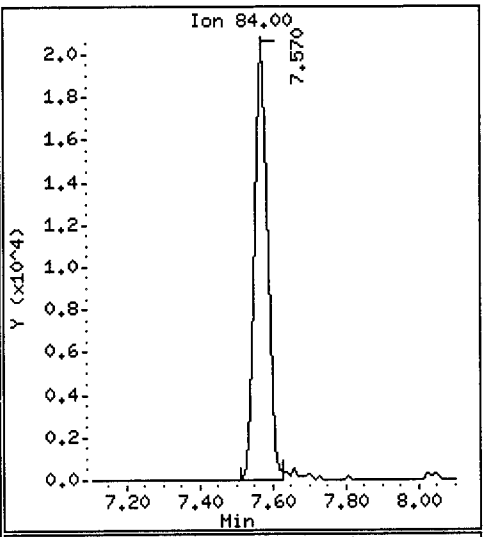
Column phase: RTx Volatiles

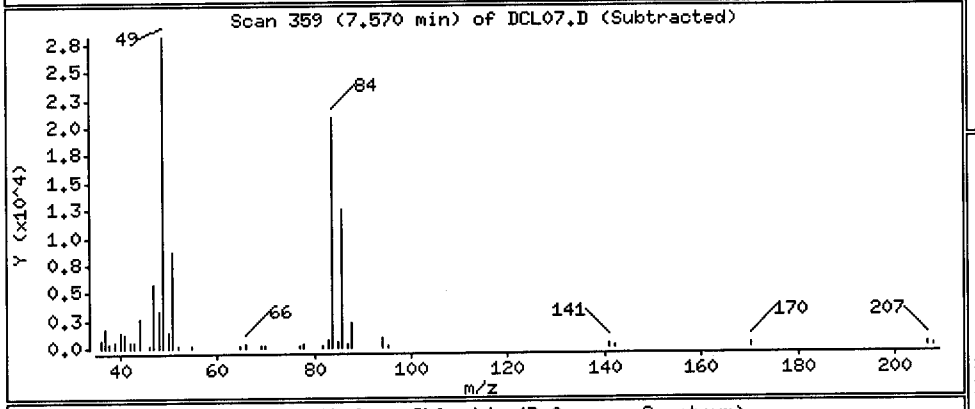
Column diameter: 0.32

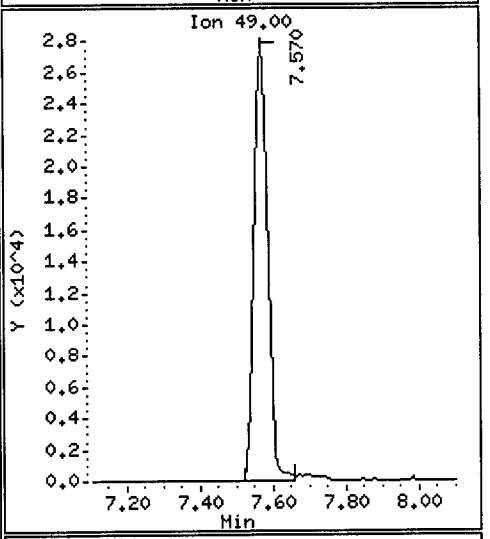
13 Methylene Chloride

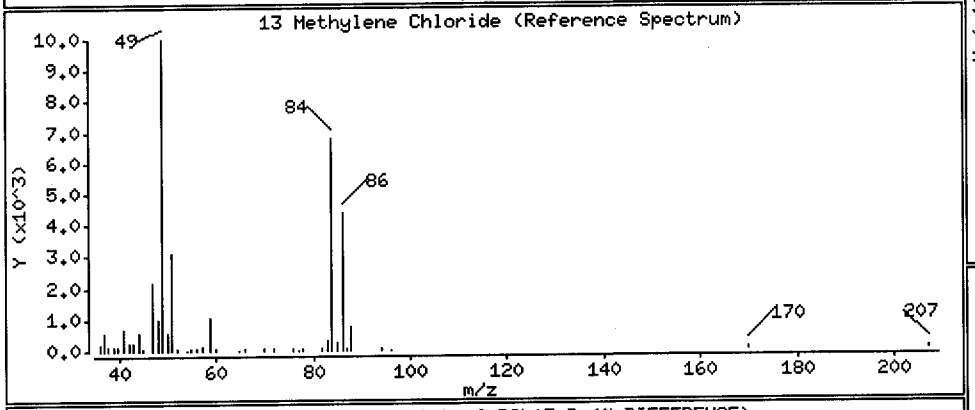
Concentration: 7.0445 UG/L

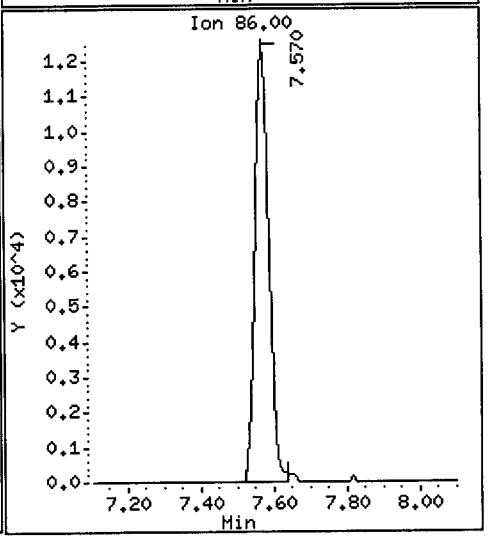


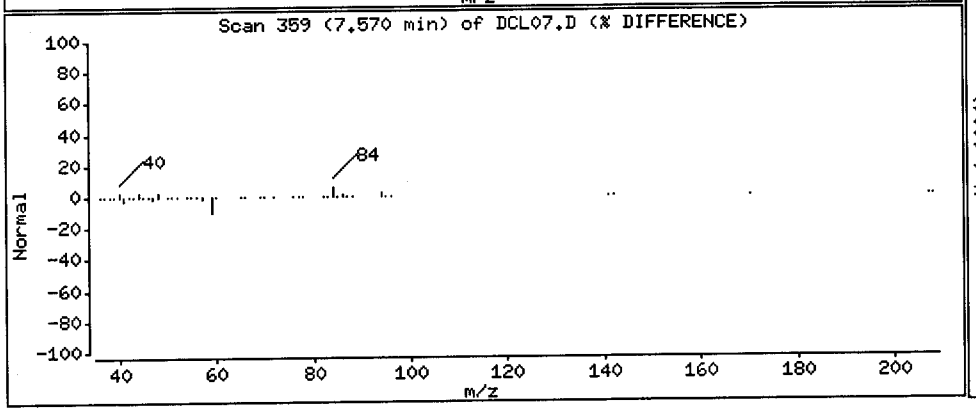












[Carbon Tetrachloride; 7.2; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D

Date : 21-MAR-2008 11:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: BLANK,QC433939,136236,1/1

Purge Volume: 5.0

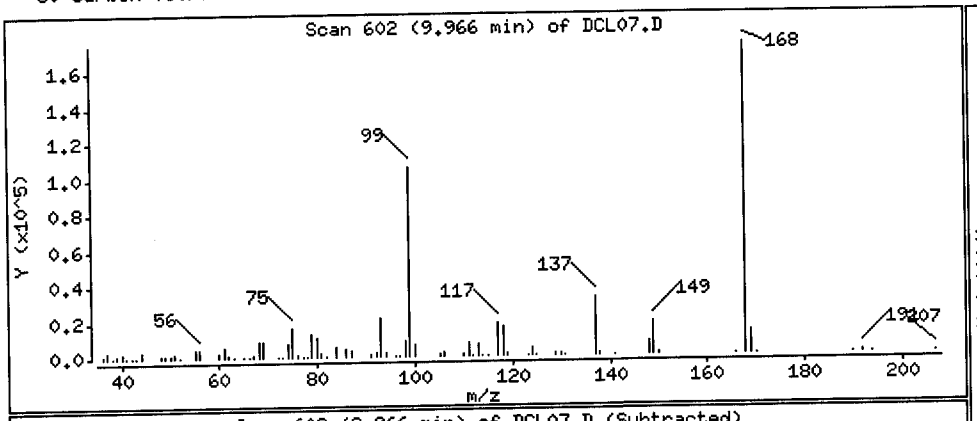
Operator: VOC

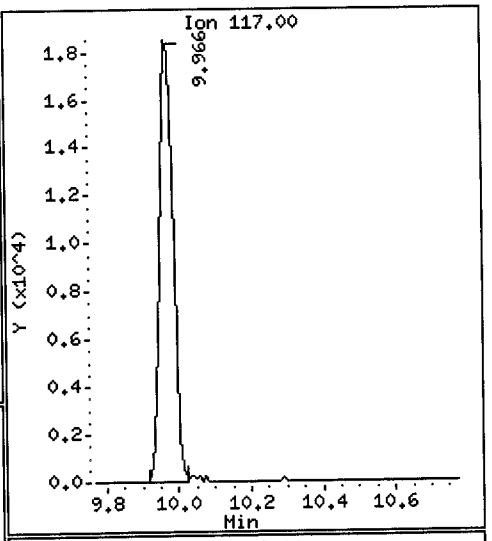
Column phase: RTx Volatiles

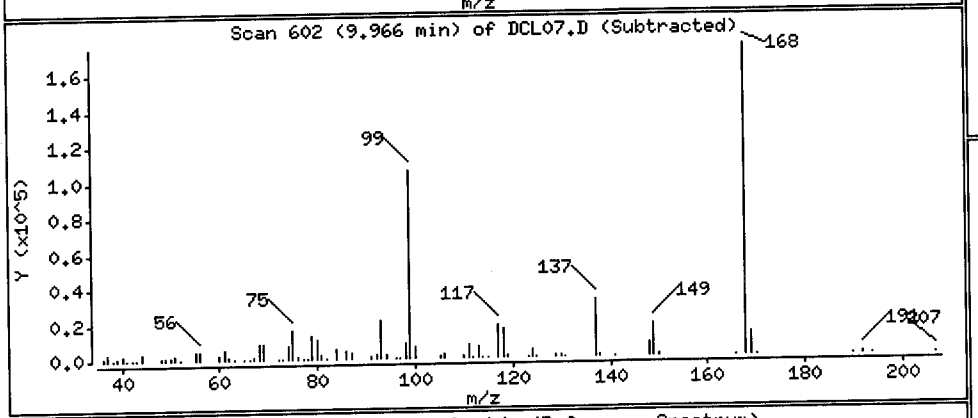
Column diameter: 0.32

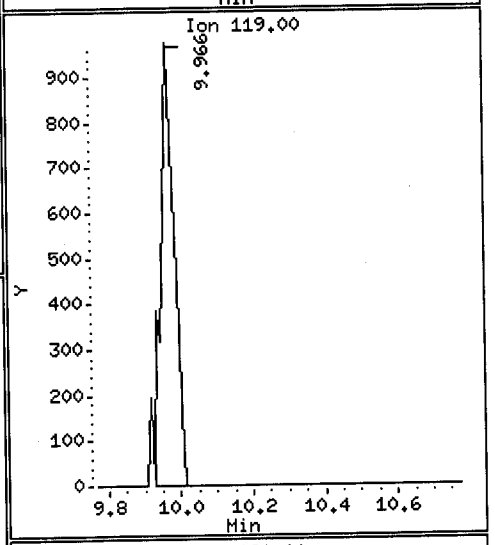
30 Carbon Tetrachloride

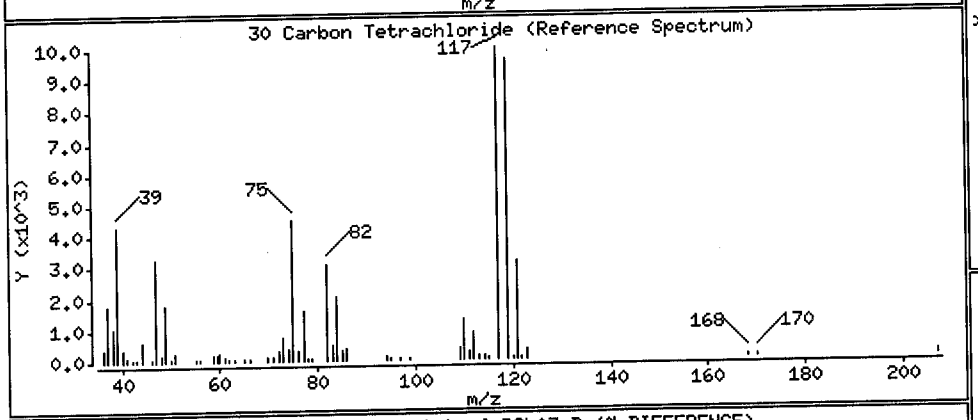
Concentration: 7.1775 UG/L

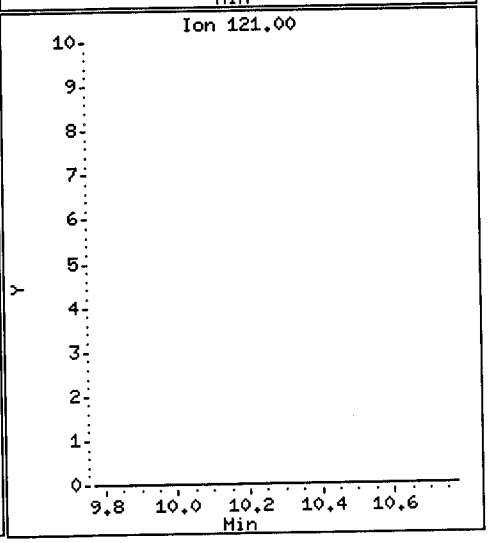


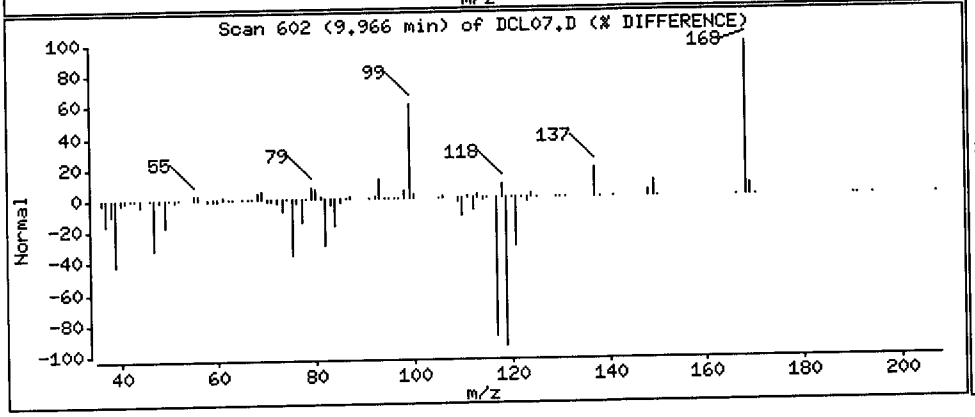












[1,1-Dichloropropene; 5.1; FP; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D

Date : 21-MAR-2008 11:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: BLANK,QC433939,136236,1/1

Purge Volume: 5.0

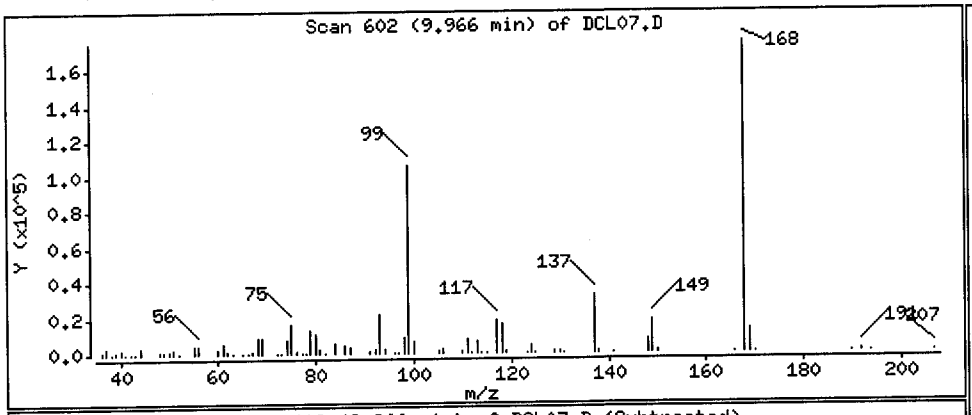
Operator: VOC

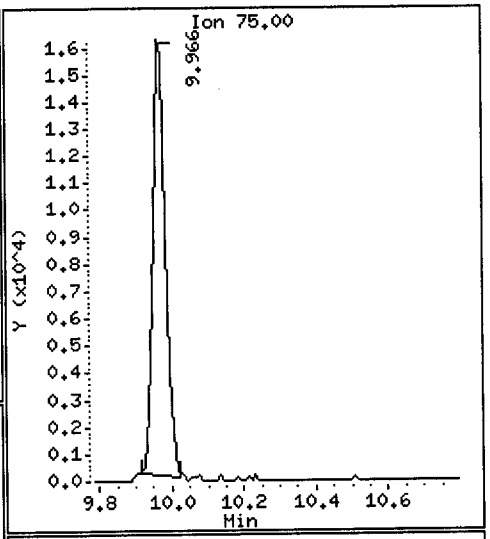
Column phase: RTx Volatiles

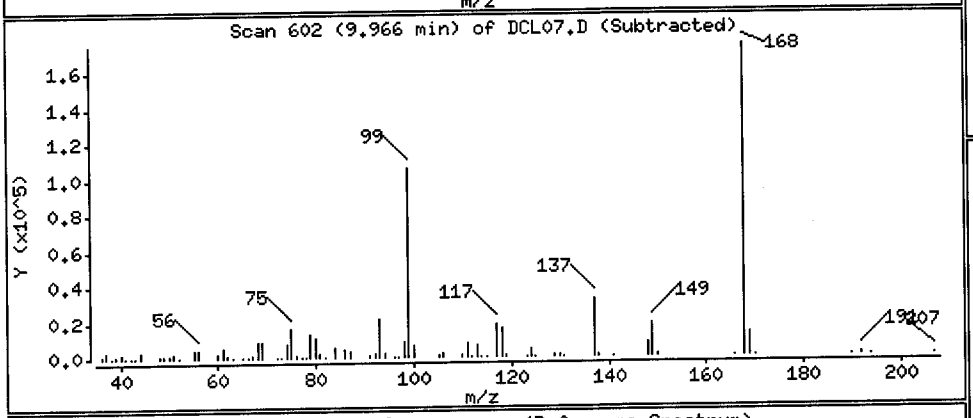
Column diameter: 0.32

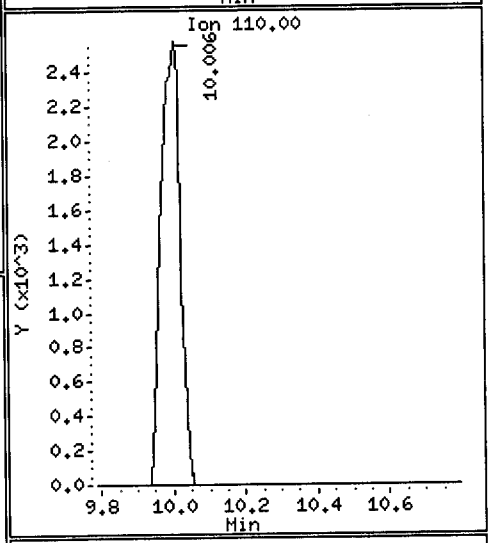
31 1,1-Dichloropropene

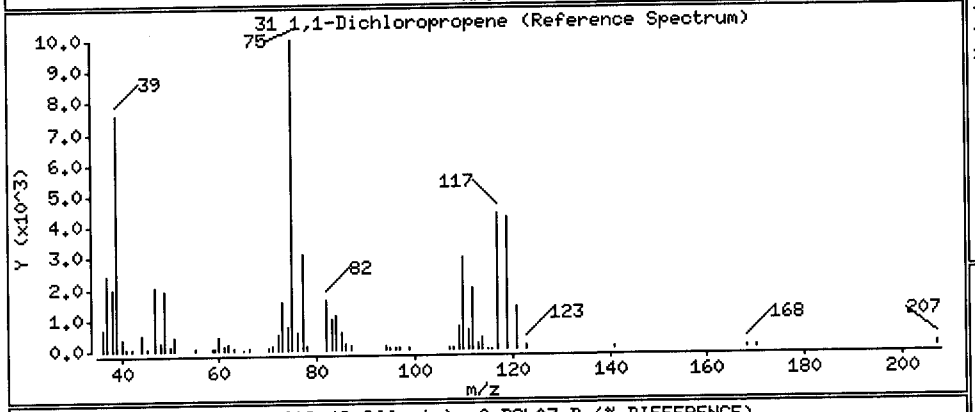
Concentration: 5.0521 UG/L

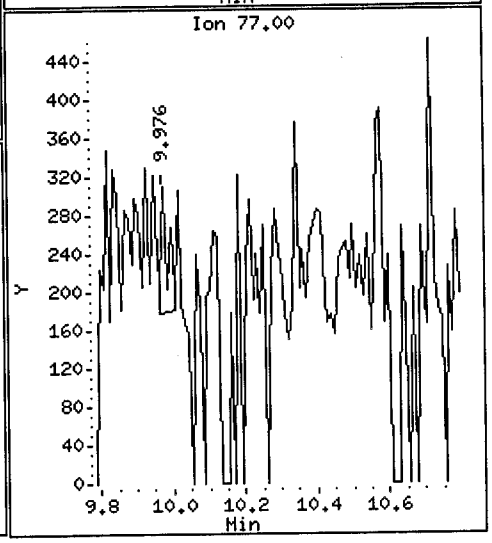


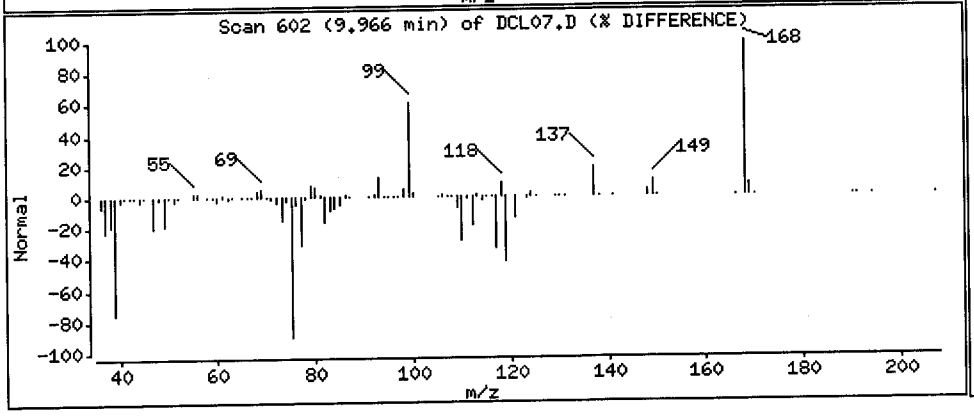












[tert-Butylbenzene; 0.72 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D

Date : 21-MAR-2008 11:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: BLANK,QC433939,136236,1/1

Purge Volume: 5.0

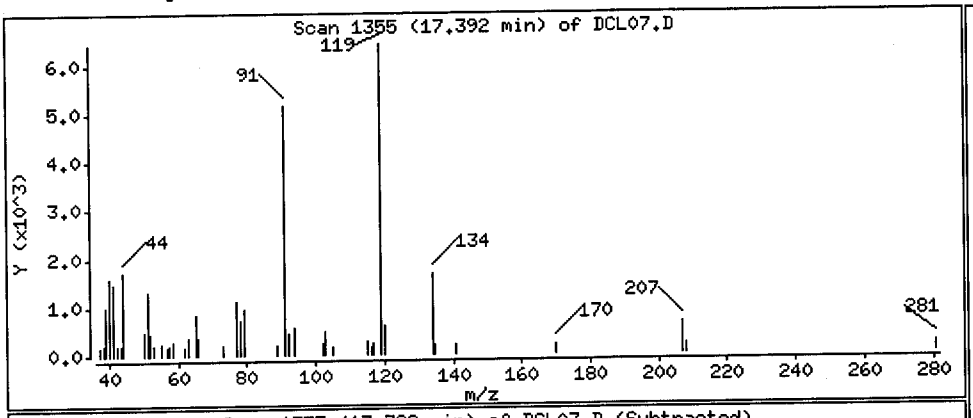
Operator: VOC

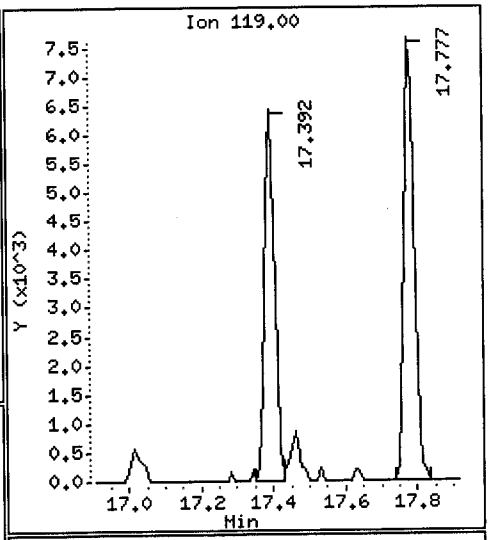
Column phase: RTx Volatiles

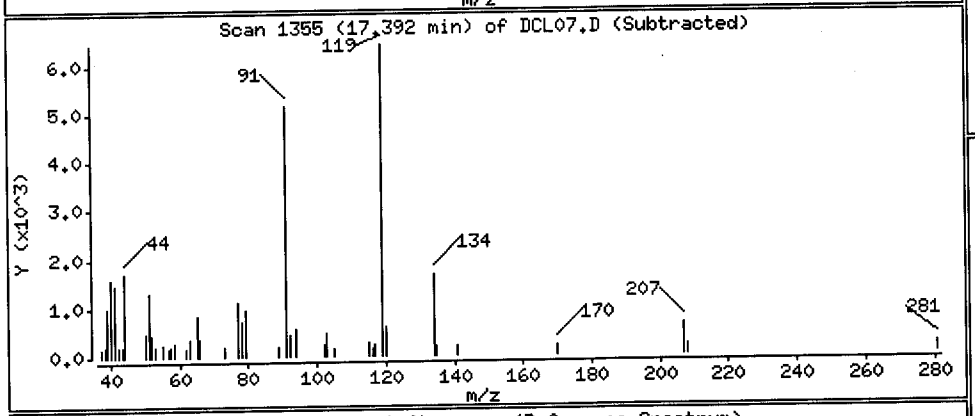
Column diameter: 0.32

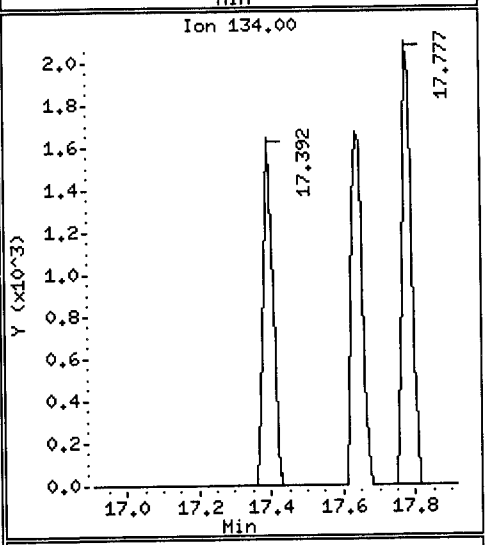
73 tert-Butylbenzene

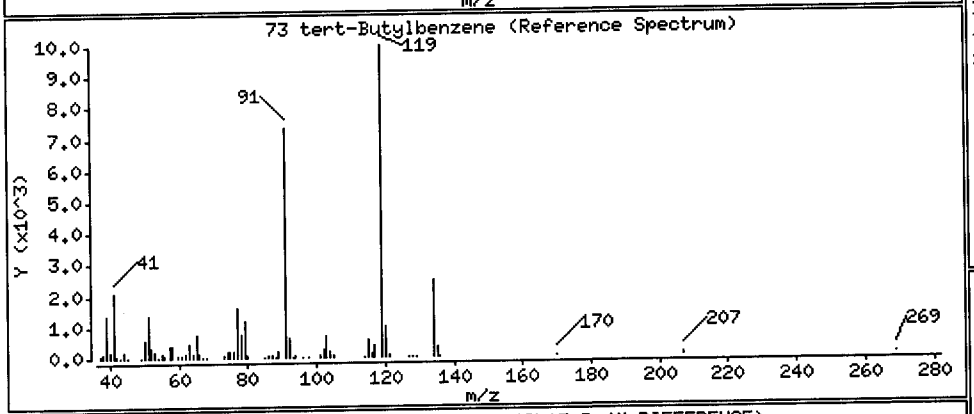
Concentration: 0.7198 UG/L

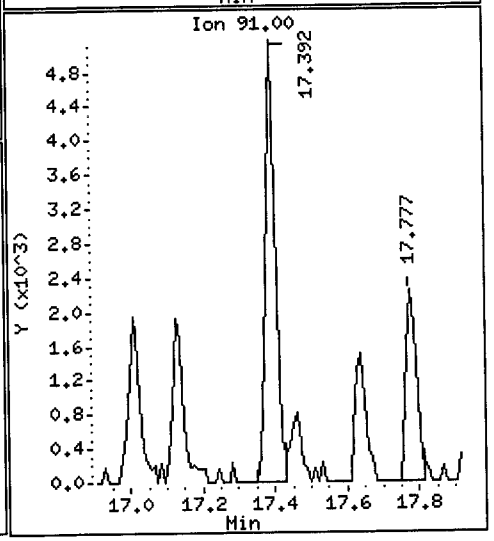


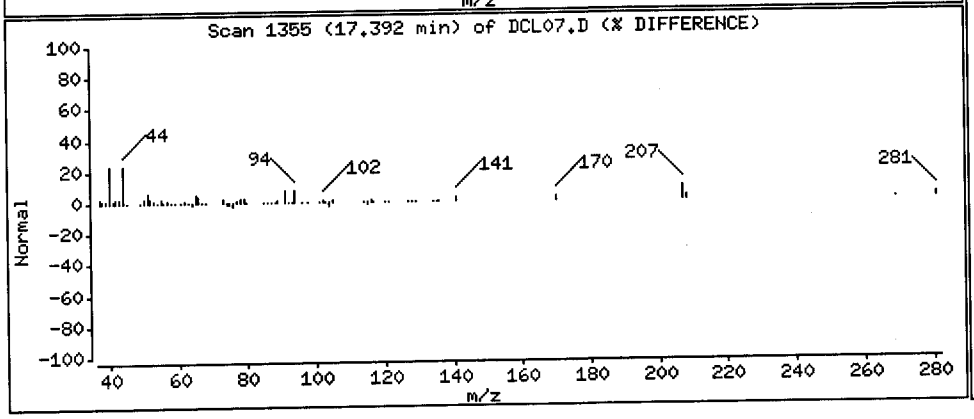












[1,2,4-Trimethylbenzene; 0.58 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D

Date : 21-MAR-2008 11:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: BLANK,QC433939,136236,1/1

Purge Volume: 5.0

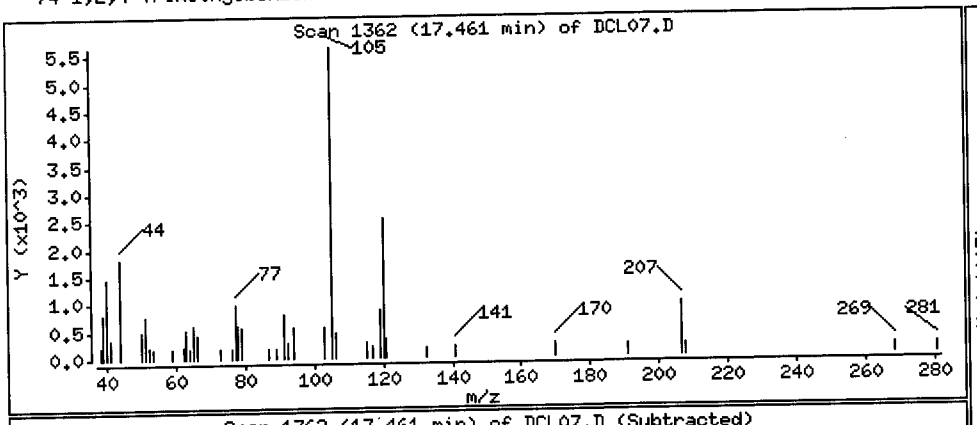
Operator: VOC

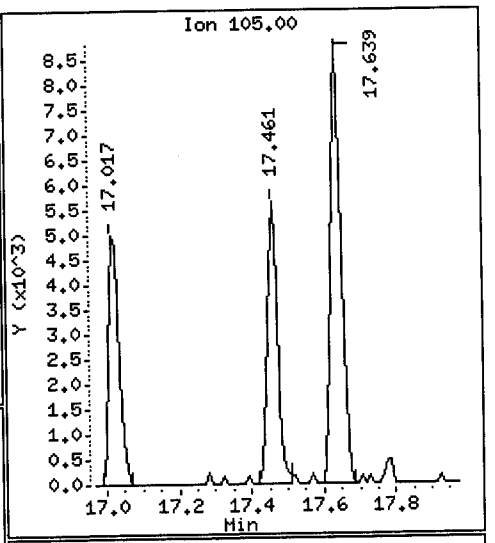
Column phase: RTx Volatiles

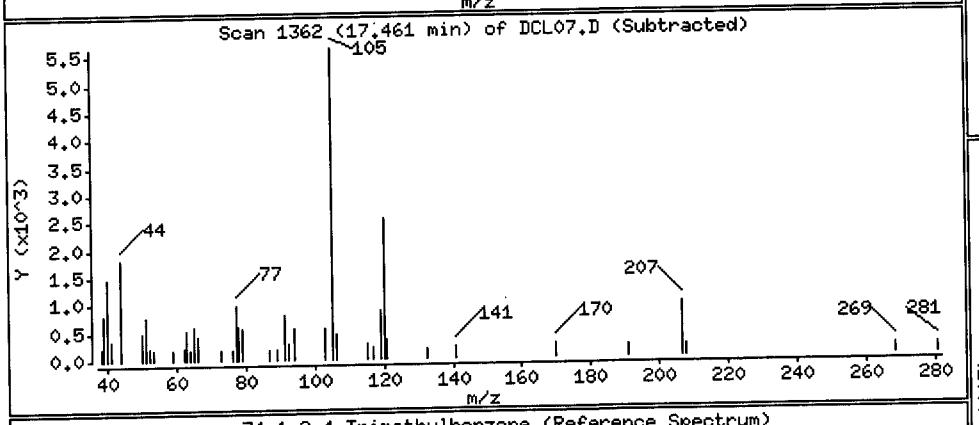
Column diameter: 0.32

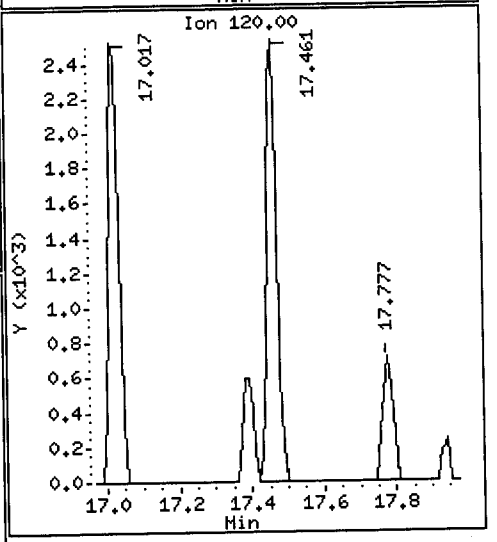
74 1,2,4-Trimethylbenzene

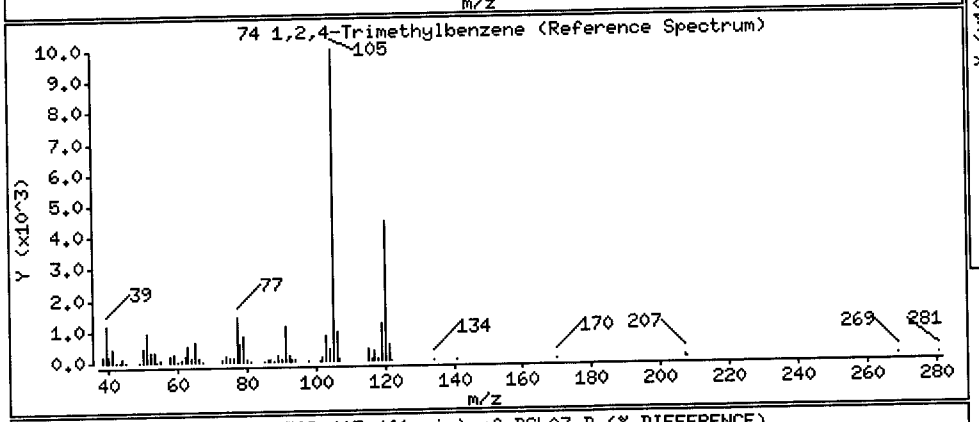
Concentration: 0.5759 UG/L

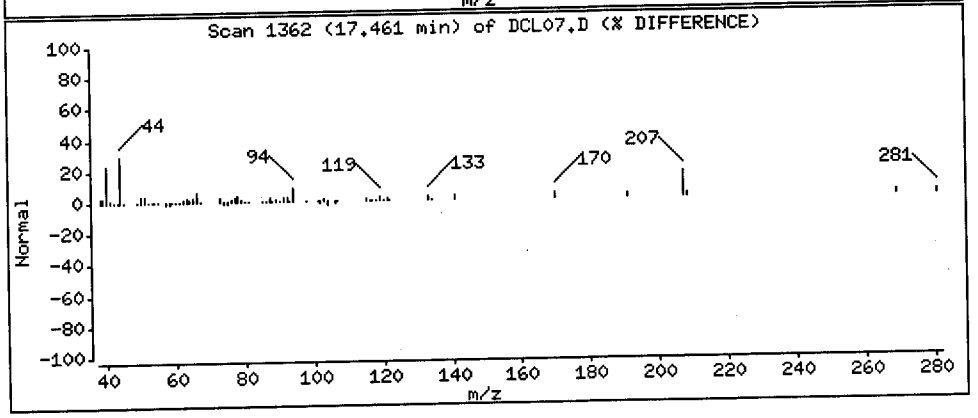












[sec-Butylbenzene; 0.66 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D

Date : 21-MAR-2008 11:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: BLANK,QC433939,136236,1/1

Purge Volume: 5.0

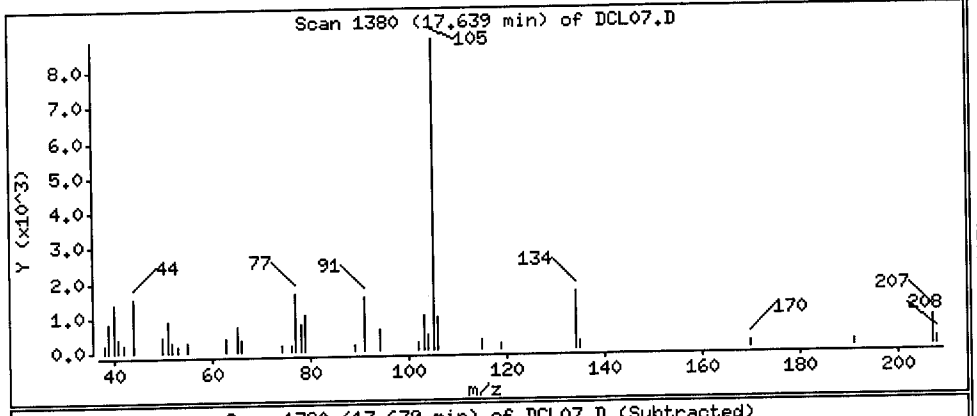
Operator: VOC

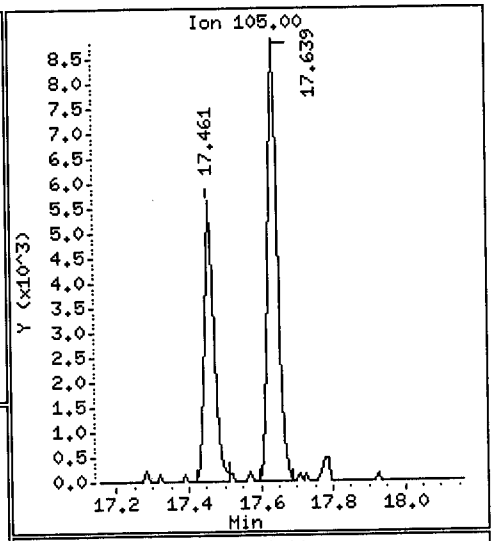
Column phase: RTx Volatiles

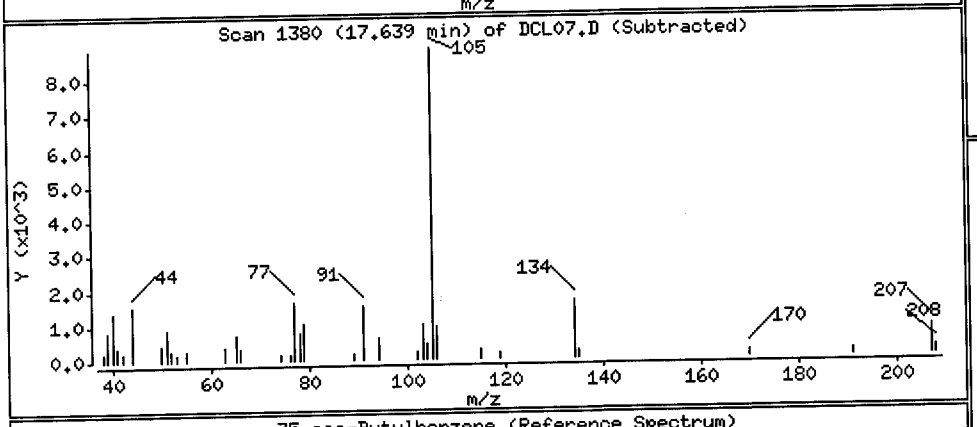
Column diameter: 0.32

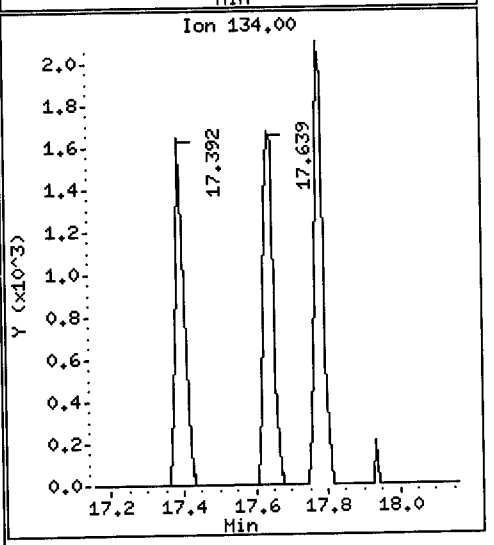
75 sec-Butylbenzene

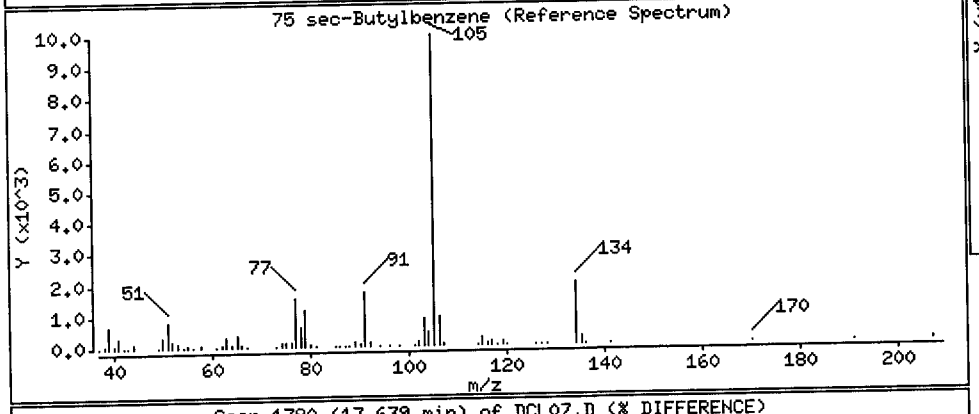
Concentration: 0.6585 UG/L

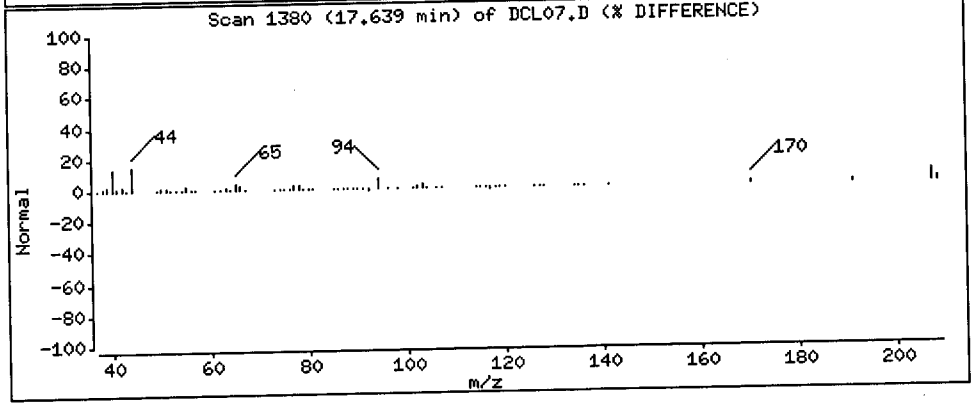












[para-Isopropyl Toluene; 0.69 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D

Date : 21-MAR-2008 11:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: BLANK,QC433939,136236,1/1

Purge Volume: 5.0

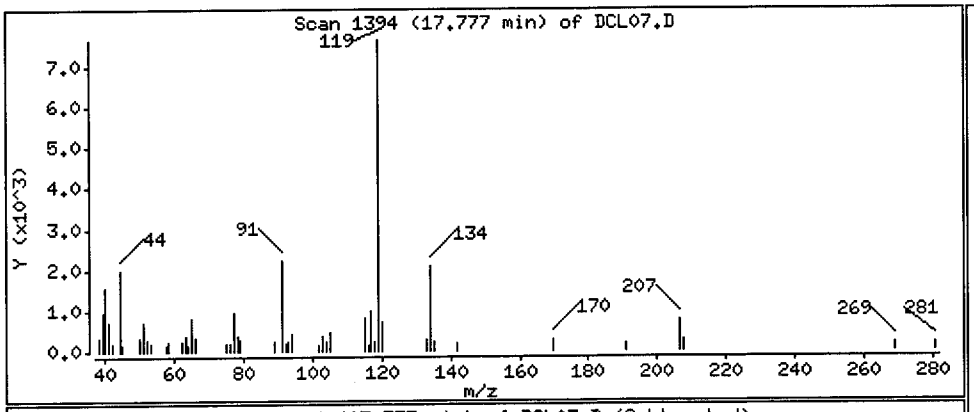
Operator: VOC

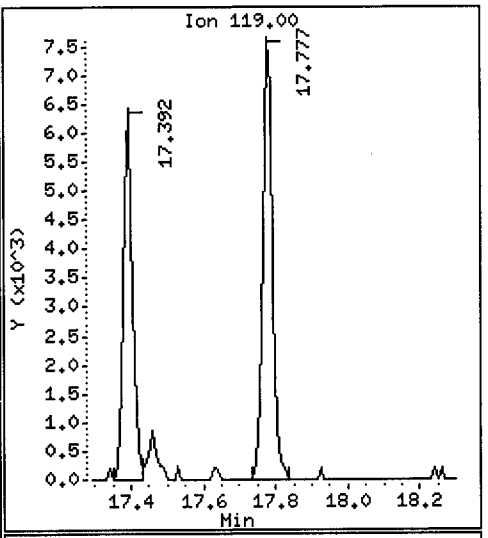
Column phase: RTx Volatiles

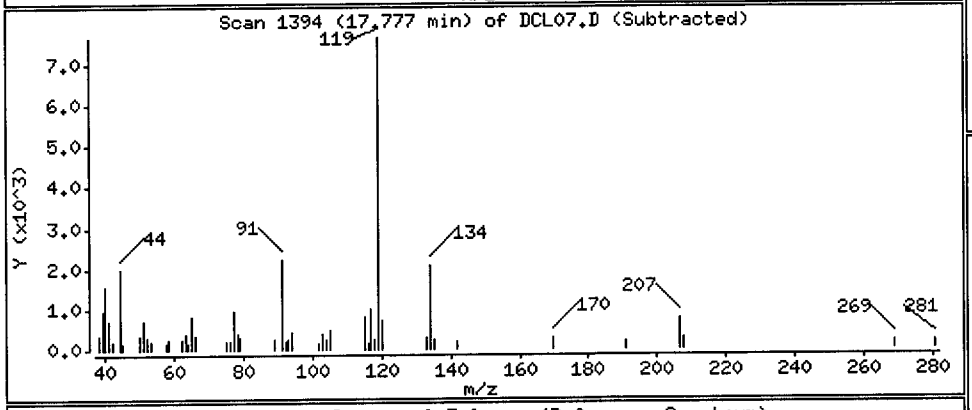
Column diameter: 0.32

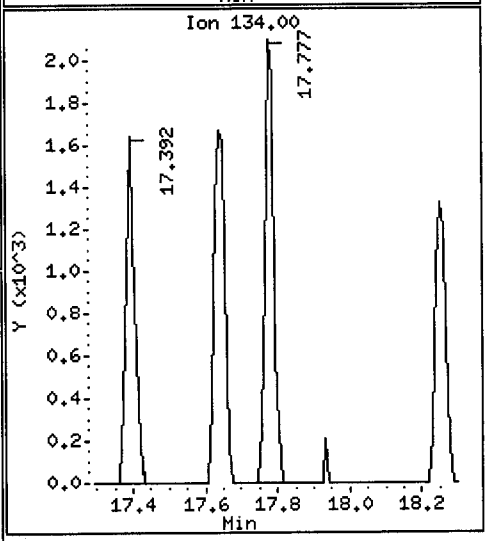
76 para-Isopropyl Toluene

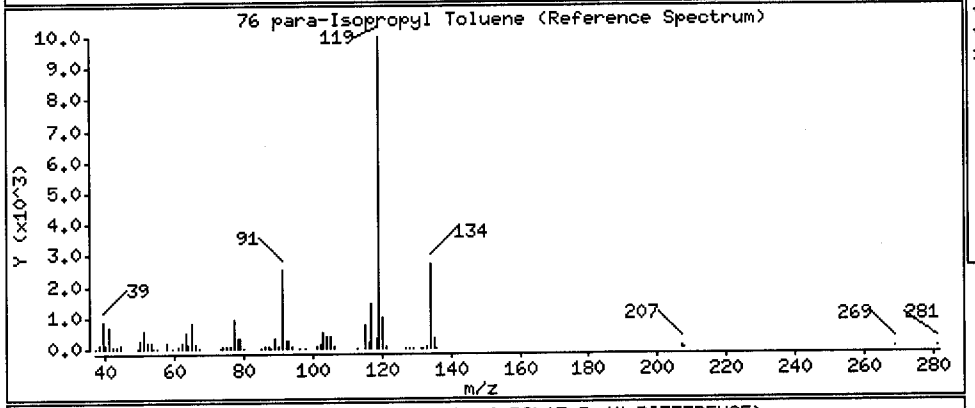
Concentration: 0.6883 UG/L

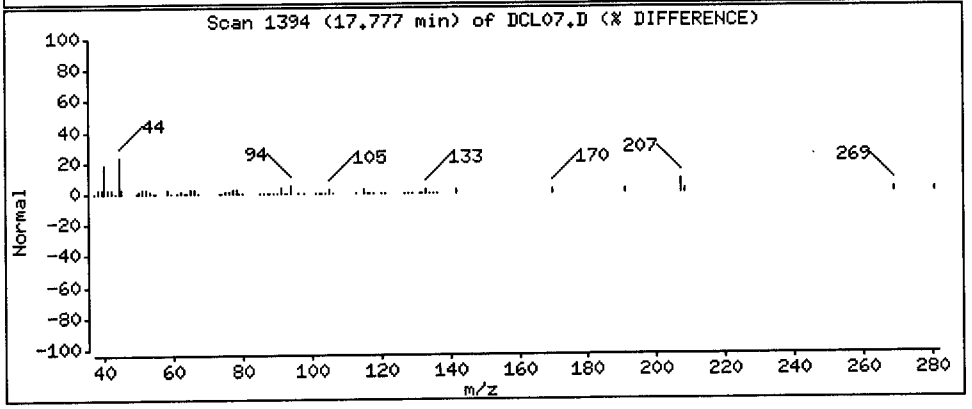












[n-Butylbenzene; 0.55 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D

Date : 21-MAR-2008 11:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: BLANK,QC433939,136236,1/1

Purge Volume: 5.0

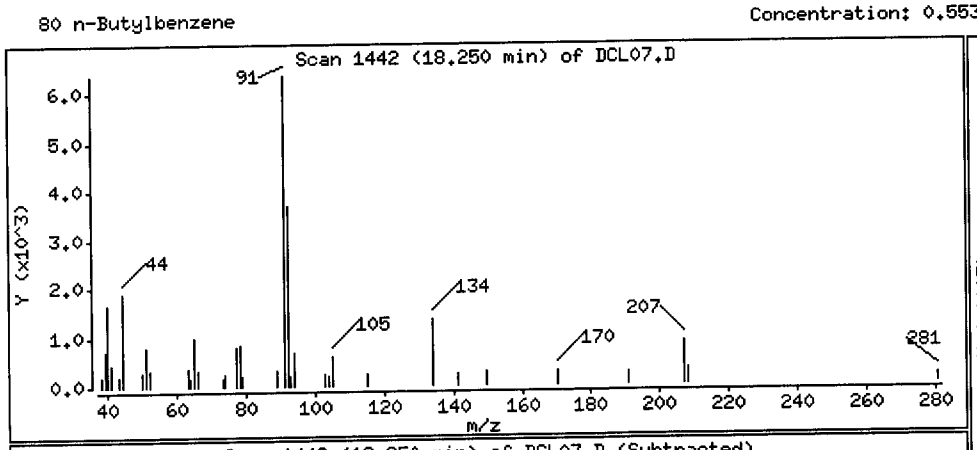
Operator: VOC

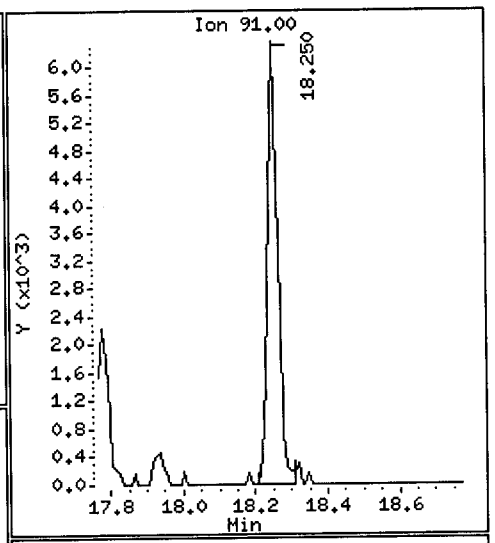
Column phase: RTx Volatiles

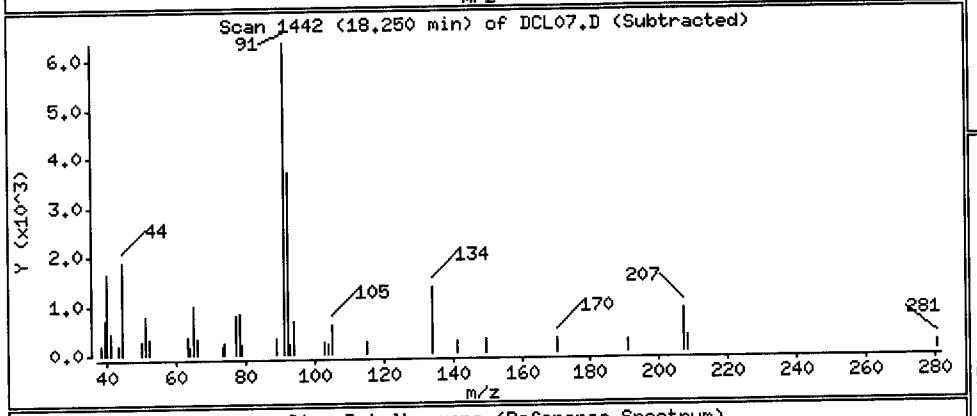
Column diameter: 0.32

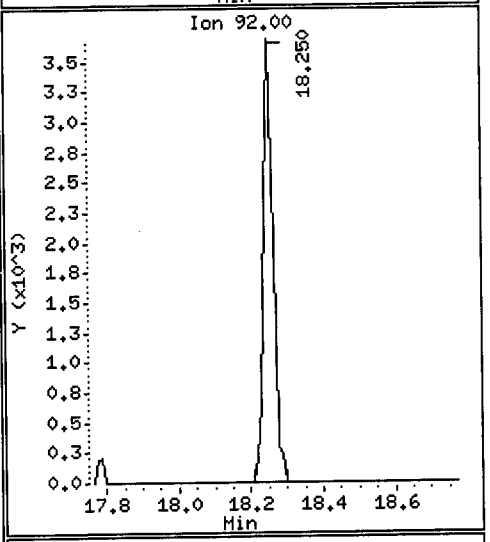
80 n-Butylbenzene

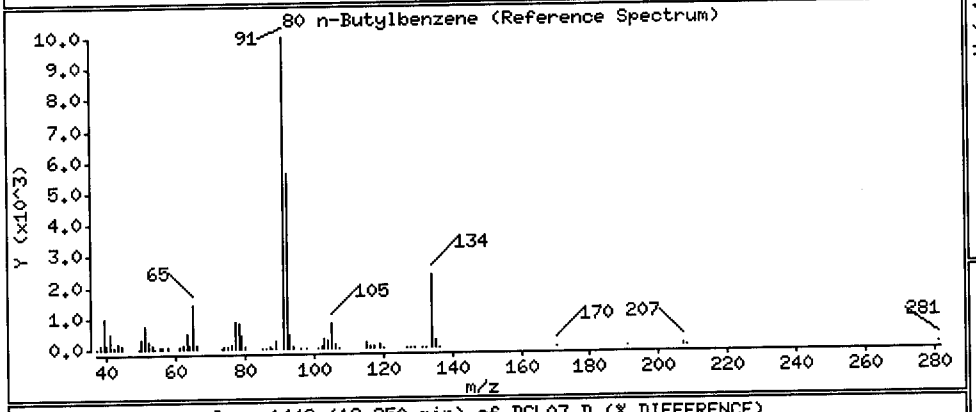
Concentration: 0.5530 UG/L

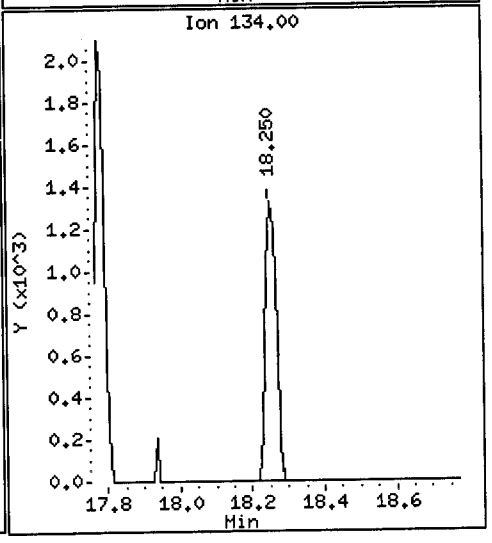


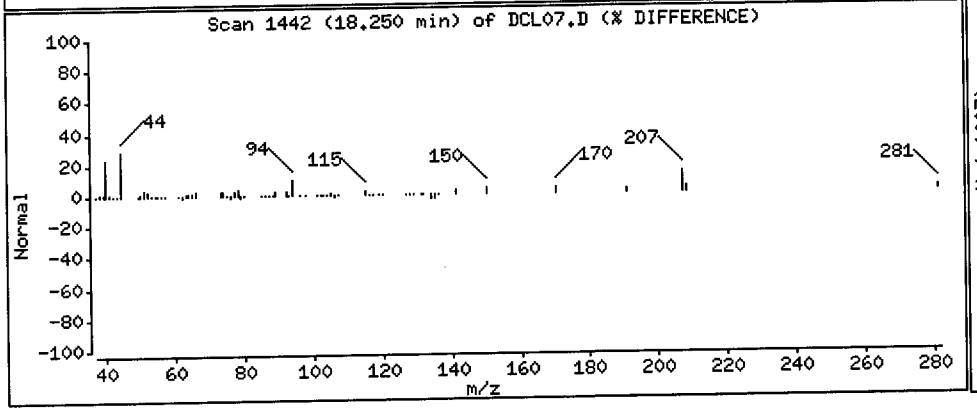












[Naphthalene; 0.98 J; u]

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL07.D

Date : 21-MAR-2008 11:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

Sample Info: BLANK,QC433939,136236,1/1

Purge Volume: 5.0

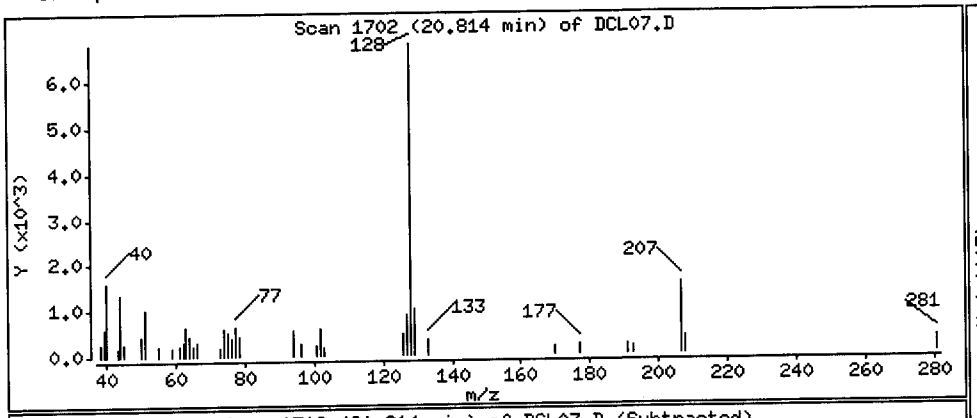
Operator: VOC

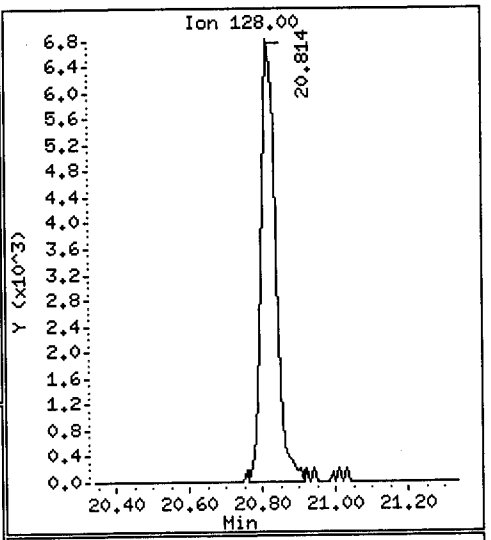
Column phase: RTx Volatiles

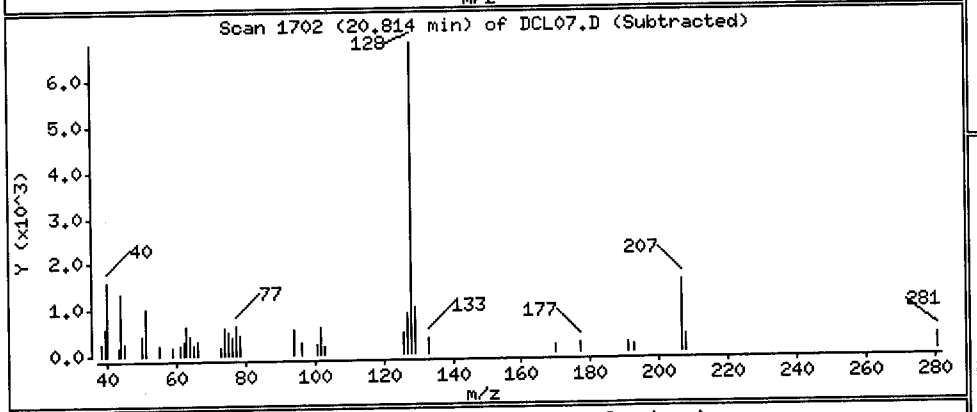
Column diameter: 0.32

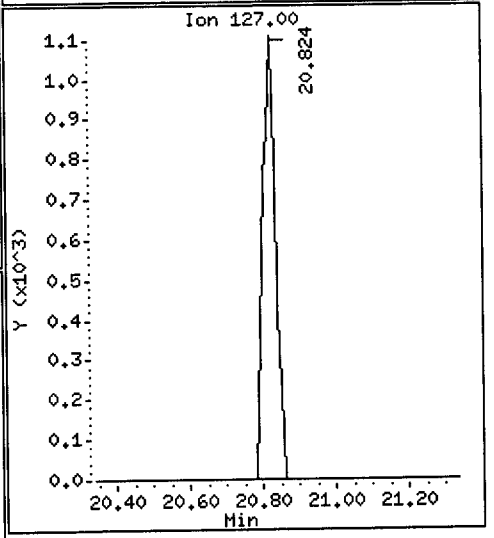
85 Naphthalene

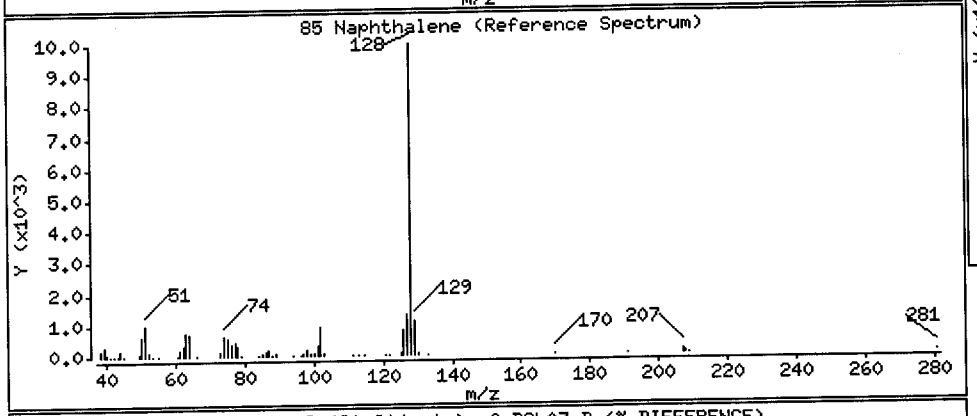
Concentration: 0.9781 UG/L

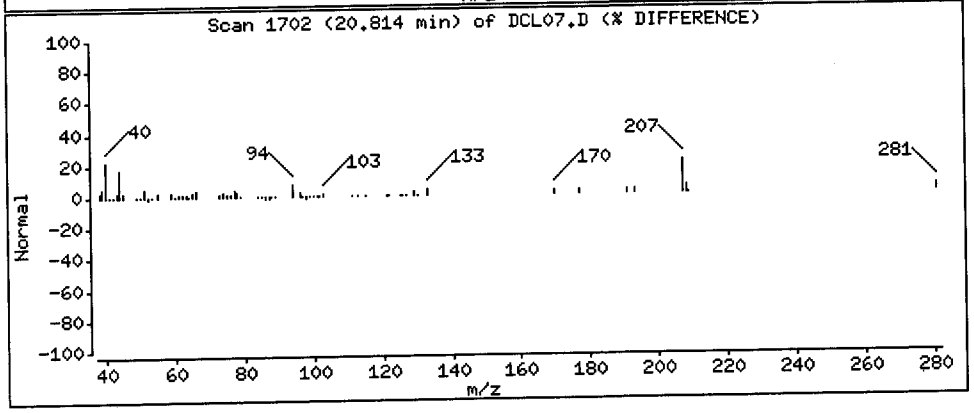












CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 MSVOA Soil
EPA 8260B

Type : LCS
Inst : MSVOA05
Seqnum : 448115696004.1
File : eck04
IDF : 1.0
PDF : 1.0
Lab ID : QC433728
Matrix : Soil
Batch : 136185
Time : 20-MAR-2008 09:52
Cal : 448110396001
Caltype : SOIL
Units : ug/Kg

Analyte	Spiked	LCS	%Rec	Limits	Flags
1,1-Dichloroethene	25.00	23.03	92	71-133	u
Benzene	25.00	25.31	101	79-123	u
Trichloroethene	25.00	24.87	99	79-124	u
Toluene	25.00	24.41	98	80-123	u
Chlorobenzene	25.00	26.26	105	80-120	u
Dibromofluoromethane	50.00	45.17	90	78-126	u
1,2-Dichloroethane-d4	50.00	47.21	94	76-137	u
Toluene-d8	50.00	49.98	100	80-120	u
Bromofluorobenzene	50.00	52.20	104	80-121	u

ISTD (ICAL ecg11)	ICAL Area	LCS Area	%Drift	ICAL RT	LCS RT	Drift
Pentafluorobenzene	751961	918245	22.11	9.80	9.79	-0.01
1,4-Difluorobenzene	1093331	1287992	17.80	10.90	10.91	0.01
Chlorobenzene-d5	980726	1053311	7.40	15.00	15.01	0.01
1,4-Dichlorobenzene-d4	574120	560046	-2.45	17.72	17.73	0.01

Analyst: MJD Date: 03/21/08 Reviewer: ACM Date: 03/21/08

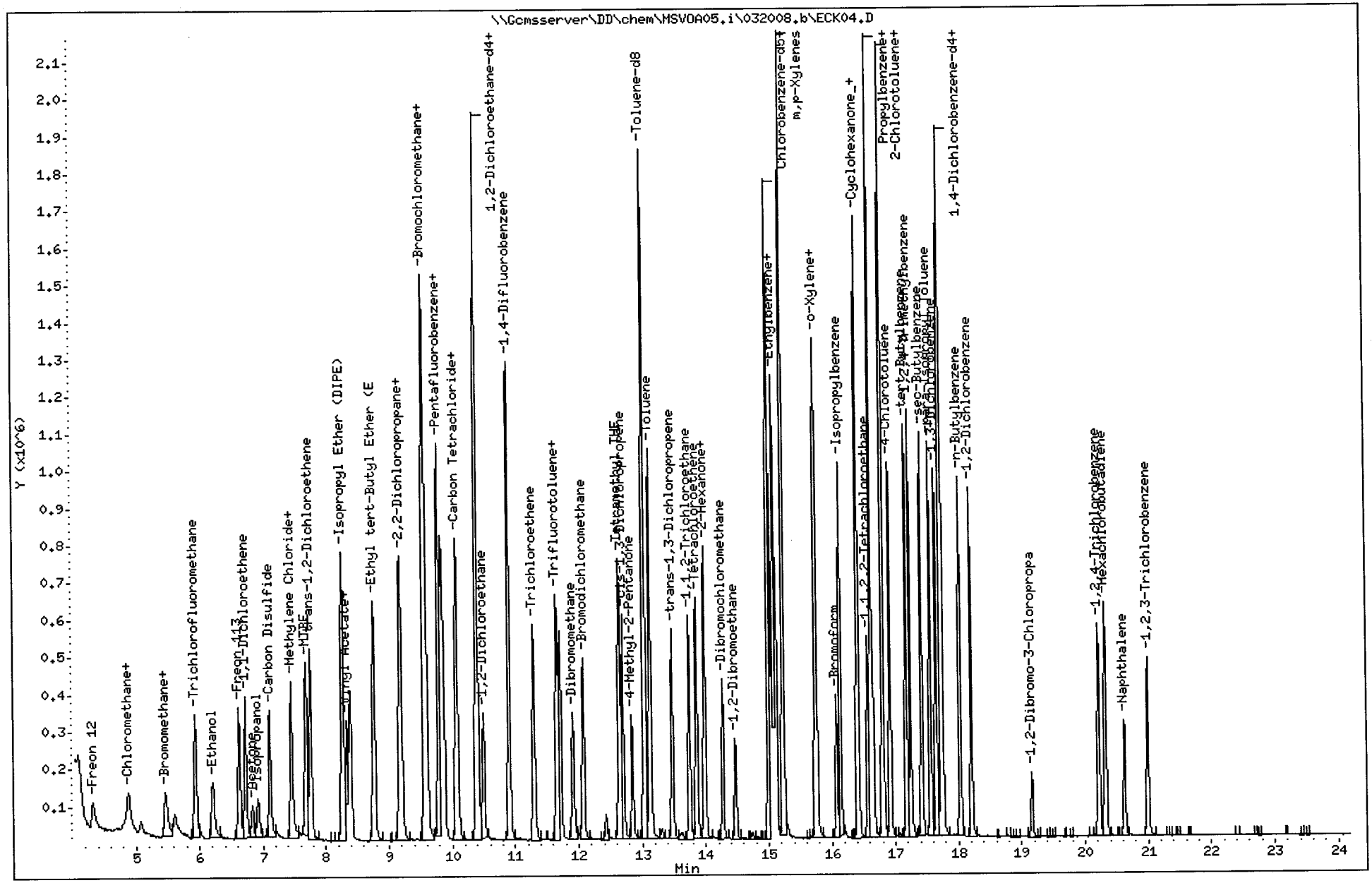
u=use

448115696004.1

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK04.D
Date : 20-MAR-2008 09:52
Client ID: DYNA P&T
Sample Info: LCS,QC433728,136185,5/5,S8648,0.01/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i

Operator: VOC
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK04.D
Report Date: 20-Mar-2008 10:30

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK04.D
Lab Smp Id:
Inj Date : 20-MAR-2008 09:52
Operator : VOC
Smp Info : LCS,QC433728,136185,5/5,S8648,0.01/100,
Misc Info : S8534,0.01/100,S8538,0.01/100
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06
Cal Date : 16-MAR-2008 18:55
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA06

Client Smp ID: DYNA P&T
MS Autotune Date: 08-JAN-2007 16:49
Inst ID: MSVOA05.i

Quant Type: ISTD
Cal File: ECG07.D
QC Sample: LCS

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	4.321	4.339	(0.441)	275363	11.5637	11.5636(M)
2 Chloromethane	50	4.873	4.802	(0.498)	272261	19.6133	19.6132(M)
3 Vinyl Chloride	62	4.883	4.891	(0.499)	277678	18.6770	18.6770(M)
4 Bromomethane	94	5.464	5.483	(0.558)	226782	32.2436	32.2435(M)
5 Chloroethane	64	5.612	5.620	(0.573)	119924	17.0695	17.0695(M)
6 Trichlorofluoromethane	101	5.937	5.955	(0.606)	395380	18.0454	18.0453(M)
7 Ethanol	45	6.204	6.231	(0.634)	365846	2541.28	2541.2773(A)
8 Freon 113	101	6.627	6.646	(0.677)	214307	20.0688	20.0688
9 1,1-Dichloroethene	96	6.726	6.744	(0.687)	186920	23.0331	23.0331(R)
10 Acetone	43	6.824	6.852	(0.697)	162536	42.9166	42.9166
11 Isopropanol	45	6.923	6.941	(0.707)	210397	241.961	241.9609(A)
12 Carbon Disulfide	76	7.110	7.128	(0.726)	714185	20.4223	20.4222
13 Methylene Chloride	84	7.445	7.463	(0.760)	255161	22.7029	22.7029
14 tert-Butyl Alcohol (TBA)	59	7.465	7.483	(0.762)	152197	119.754	119.7539(A)
15 MTBE	73	7.682	7.700	(0.785)	654831	21.5140	21.5139
16 trans-1,2-Dichloroethene	96	7.761	7.779	(0.793)	235513	23.4929	23.4929
17 Isopropyl Ether (DIPE)	45	8.273	8.281	(0.845)	1054797	21.4549	21.4548(A)
18 Vinyl Acetate	43	8.342	8.359	(0.852)	642276	20.1401	20.1401
19 1,1-Dichloroethane	63	8.391	8.409	(0.857)	507203	22.6620	22.6619
20 Ethyl tert-Butyl Ether (ETBE)	59	8.766	8.784	(0.895)	817562	21.9221	21.9220(A)
21 2,2-Dichloropropane	77	9.170	9.188	(0.937)	375357	23.4252	23.4251
22 2-Butanone	43	9.180	9.198	(0.938)	199682	27.0498	27.0498

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK04.D
Report Date: 20-Mar-2008 10:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	23 cis-1,2-Dichloroethene	96	9.200	9.218	(0.940)	277273	24.6250	24.6250
	24 Bromochloromethane	128	9.554	9.573	(0.976)	131119	23.3397	23.3397
	25 Tetrahydrofuran	42	9.564	9.572	(0.977)	927639	224.760	224.7600(A)
	26 Chloroform	83	9.594	9.612	(0.980)	522131	23.2683	23.2682
*	27 Pentafluorobenzene	168	9.791	9.799	(1.000)	918245	50.0000	
	28 Dibromofluoromethane	113	9.840	9.848	(1.005)	501778	45.1738	45.1737
	29 1,1,1-Trichloroethane	97	9.870	9.878	(1.008)	330942	22.0709	22.0708
	30 Carbon Tetrachloride	117	10.067	10.075	(0.923)	293653	24.0893	24.0892
	31 1,1-Dichloropropene	75	10.086	10.094	(0.925)	370995	24.5115	24.5114
	32 1,2-Dichloroethane-d4	65	10.382	10.400	(0.952)	560026	47.2077	47.2077
	33 Benzene	78	10.392	10.400	(0.953)	1061654	25.3106	25.3106(R)
	34 Methyl tert-Amyl Ether (TAME)	73	10.402	10.420	(0.954)	707248	24.8176	24.8176(A)
	35 1,2-Dichloroethane	62	10.491	10.508	(0.962)	335904	22.9387	22.9387
*	36 1,4-Difluorobenzene	114	10.904	10.912	(1.000)	1287992	50.0000	
	37 Trichloroethene	95	11.299	11.307	(1.036)	247682	24.8698	24.8697(R)
	38 Trifluorotoluene	146	11.663	11.681	(1.070)	384883	27.6438	27.6438(A)
	39 1,2-Dichloropropane	63	11.713	11.730	(1.074)	296973	23.6574	23.6573
	40 Dibromomethane	93	11.910	11.928	(1.092)	176541	23.3301	23.3300
	41 Bromodichloromethane	83	12.077	12.086	(1.108)	394394	25.2617	25.2616
	42 Tetramethyl THF	43	12.649	12.657	(1.160)	638997	23.6789	23.6789(A)
	43 cis-1,3-Dichloropropene	75	12.708	12.716	(1.165)	439356	24.0213	24.0212
	44 4-Methyl-2-Pentanone	43	12.846	12.854	(1.178)	318213	22.7199	22.7198
	45 Toluene-d8	98	13.033	13.041	(1.195)	1412027	49.9786	49.9786
	46 Toluene	92	13.132	13.140	(1.204)	524923	24.4072	24.4072(R)
	47 trans-1,3-Dichloropropene	75	13.477	13.485	(1.236)	364649	22.1276	22.1275
	48 1,1,2-Trichloroethane	85	13.743	13.751	(1.260)	135221	24.5700	24.5699
	49 Tetrachloroethene	166	13.861	13.869	(0.924)	237297	26.6558	26.6557
	50 2-Hexanone	43	13.979	13.977	(0.932)	259128	27.6465	27.6464
	51 1,3-Dichloropropane	76	13.989	13.998	(0.932)	403204	25.3993	25.3992
	52 Dibromochloromethane	129	14.275	14.283	(0.951)	263316	25.8464	25.8464
	53 1,2-Dibromoethane	107	14.472	14.481	(1.327)	212618	23.8411	23.8410
*	54 Chlorobenzene-d5	117	15.004	15.012	(1.000)	1053311	50.0000	
	55 Chlorobenzene	112	15.044	15.052	(1.003)	538057	26.2581	26.2581(R)
	56 Ethylbenzene	91	15.093	15.101	(1.006)	1016259	26.5477	26.5476
	57 1,1,1,2-Tetrachloroethane	131	15.132	15.131	(1.009)	222599	26.2931	26.2930
	58 m,p-Xylenes	106	15.231	15.239	(1.015)	652752	52.8311	52.8310
	59 o-Xylene	106	15.743	15.742	(1.049)	325369	25.8440	25.8439
	60 Styrene	104	15.763	15.772	(1.051)	572734	26.0268	26.0267
	61 Bromoform	173	16.078	16.077	(1.072)	195908	25.9815	25.9815
	62 Isopropylbenzene	105	16.138	16.146	(0.910)	739449	24.6816	24.6815
	63 Cyclohexanone_	55	16.394	16.402	(0.925)	120968	80.7324	80.7324(A)
	64 Bromofluorobenzene	95	16.414	16.421	(0.926)	561076	52.2037	52.2036
	65 1,1,2,2-Tetrachloroethane	83	16.571	16.569	(0.935)	333455	27.8180	27.8179
	66 Propylbenzene	91	16.620	16.619	(0.938)	1143492	28.8420	28.8419
	67 Bromobenzene	156	16.620	16.619	(0.938)	285868	29.8214	29.8213
	68 1,2,3-Trichloropropane	75	16.660	16.658	(0.940)	260412	28.4624	28.4623(M)
	69 2-Chlorotoluene	91	16.798	16.806	(0.948)	770306	29.5616	29.5615
	70 1,3,5-Trimethylbenzene	105	16.808	16.806	(0.948)	678888	29.1912	29.1911
	71 4-Chlorotoluene	91	16.916	16.924	(0.954)	665721	28.4199	28.4198
	72 tert-Butylbenzene	119	17.172	17.180	(0.969)	543108	27.2992	27.2992
	73 1,2,4-Trimethylbenzene	105	17.241	17.239	(0.973)	647881	29.5970	29.5969
	74 sec-Butylbenzene	105	17.419	17.417	(0.983)	835637	26.4756	26.4755
	75 para-Isopropyl Toluene	119	17.557	17.565	(0.991)	644178	27.3448	27.3448
	76 1,3-Dichlorobenzene	146	17.645	17.653	(0.996)	470299	29.4490	29.4489

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK04.D
Report Date: 20-Mar-2008 10:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
* 77 1,4-Dichlorobenzene-d4	152	17.724	17.732	(1.000)	560046	50.0000	
78 1,4-Dichlorobenzene	146	17.754	17.752	(1.002)	458879	27.8042	27.8042
79 n-Butylbenzene	91	18.030	18.028	(1.017)	673909	28.5702	28.5702
80 1,2-Dichlorobenzene	146	18.207	18.206	(1.027)	451901	28.8784	28.8783
81 1,2-Dibromo-3-Chloropropane	75	19.163	19.162	(1.081)	53444	27.0340	27.0339
82 1,2,4-Trichlorobenzene	180	20.218	20.226	(1.141)	242646	32.7686	32.7685
83 Hexachlorobutadiene	225	20.326	20.325	(1.147)	185695	28.9216	28.9216
84 Naphthalene	128	20.622	20.630	(1.163)	340595	26.1578	26.1578
85 1,2,3-Trichlorobenzene	180	20.996	20.995	(1.185)	226244	29.5798	29.5798

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 MSVOA Soil
EPA 8260B

Type : BS
Inst : MSVOA04
Seqnum : 438117134005.1
File : dcl05
IDF : 1.0
PDF : 1.0
Lab ID : QC433940
Matrix : Soil
Batch : 136236
Time : 21-MAR-2008 09:58
Cal : 438107113004
Caltype : SOIL
Units : ug/Kg

Type : BSD
Inst : MSVOA04
Seqnum : 438117134006.1
File : dcl06
IDF : 1.0
PDF : 1.0
Lab ID : QC433941
Matrix : Soil
Batch : 136236
Time : 21-MAR-2008 10:32
Cal : 438107113004
Caltype : SOIL

Analyte	Spiked	BS	%Rec	BSD	%Rec	Limits	RPD	Lim	Flags
1,1-Dichloroethene	25.00	27.84	111	28.03	112	71-133	1	20	u
Benzene	25.00	26.05	104	25.57	102	79-123	2	20	u
Trichloroethene	25.00	25.59	102	25.56	102	79-124	0	20	u
Toluene	25.00	25.84	103	25.43	102	80-123	2	20	u
Chlorobenzene	25.00	25.43	102	24.44	98	80-120	4	20	u
Dibromofluoromethane	50.00	54.84	110	56.18	112	78-126			u
1,2-Dichloroethane-d4	50.00	51.13	102	51.85	104	76-137			u
Toluene-d8	50.00	50.05	100	50.59	101	80-120			u
Bromofluorobenzene	50.00	50.23	100	50.97	102	80-121			u

ISTD (ICAL dce12)	ICAL Area	BS Area	%Drift	ICAL RT	BS RT	Drift
Pentafluorobenzene	402255	470932	17.07	10.00	9.97	-0.03
1,4-Difluorobenzene	600047	728615	21.43	11.12	11.10	-0.02
Chlorobenzene-d5	504409	661411	31.13	15.22	15.21	-0.01
1,4-Dichlorobenzene-d4	272365	368409	35.26	17.95	17.94	-0.01

ISTD (ICAL dce12)	ICAL Area	BSD Area	%Drift	ICAL RT	BSD RT	Drift
Pentafluorobenzene	402255	434581	8.04	10.00	9.98	-0.02
1,4-Difluorobenzene	600047	676483	12.74	11.12	11.09	-0.03
Chlorobenzene-d5	504409	615722	22.07	15.22	15.20	-0.02
1,4-Dichlorobenzene-d4	272365	337880	24.05	17.95	17.93	-0.02

Analyst: MJD Date: 03/21/08 Reviewer: ACM Date: 03/21/08

u=use

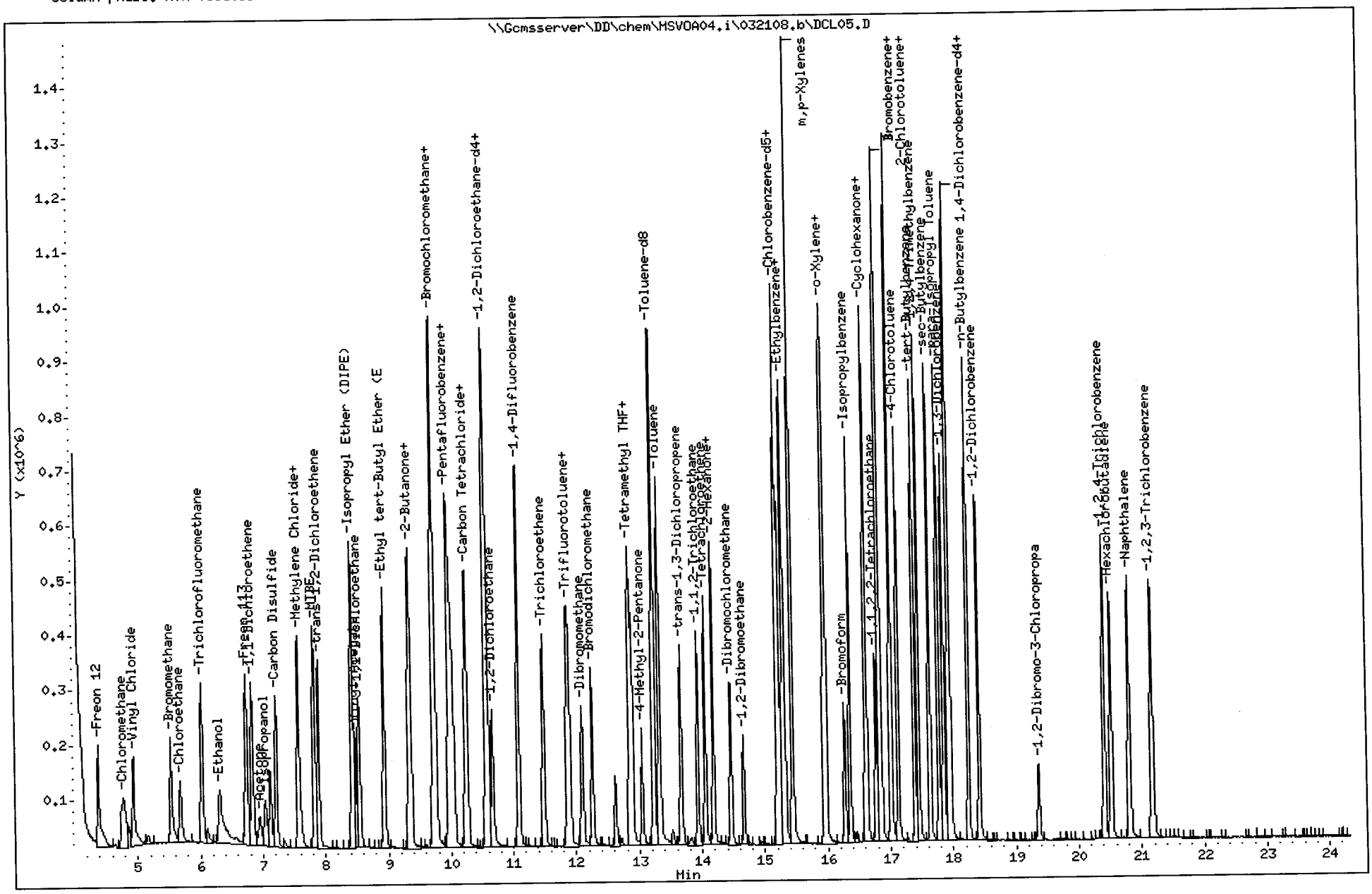
438117134006.1

00362

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL05.D
Date : 21-MAR-2008 09:58
Client ID: DYNA P&T
Sample Info: BS,QC433940,136236,S8648,0.01/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i

Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL05.D
Report Date: 21-Mar-2008 11:42

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL05.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 21-MAR-2008 09:58
MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC
Inst ID: MSVOA04.i
Smp Info : BS,QC433940,136236,S8648,0.01/100
Misc Info : S8721,.01/100,S8538,.01/100
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\826GOX4S.m
Meth Date : 21-Mar-2008 09:53 msvoa04
Quant Type: ISTD
Cal Date : 14-MAR-2008 18:54
Cal File: DCE15.D
Als bottle: 5
QC Sample: BS
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
1 Freon 12	85	4.379	4.408	(0.439)	281133	23.3257	23.3257
2 Chloromethane	50	4.783	4.812	(0.480)	258563	26.0275	26.0275
3 Vinyl Chloride	62	4.941	4.960	(0.496)	260067	28.5149	28.5148
4 Bromomethane	94	5.533	5.561	(0.555)	197231	29.9719	29.9718
5 Chloroethane	64	5.680	5.709	(0.570)	146095	30.4715	30.4714
6 Trichlorofluoromethane	101	6.026	6.054	(0.604)	327839	30.9114	30.9113
7 Ethanol	45	6.312	6.350	(0.633)	328344	2733.00	2732.9986(M)
8 Freon 113	101	6.736	6.764	(0.676)	175864	25.4309	25.4309
9 1,1-Dichloroethene	96	6.834	6.863	(0.685)	163665	27.8444	27.8443(R)
10 Acetone	43	6.953	6.981	(0.697)	83204	24.4973	24.4973
11 Isopropanol	45	7.041	7.070	(0.706)	187867	254.529	254.5288(M)
12 Carbon Disulfide	76	7.219	7.247	(0.724)	499121	23.5651	23.5650
13 Methylene Chloride	84	7.574	7.602	(0.760)	225557	31.1454	31.1453
14 tert-Butyl Alcohol (TBA)	59	7.604	7.632	(0.763)	139527	136.426	136.4264
15 MTBE	73	7.830	7.858	(0.785)	498209	27.8407	27.8407
16 trans-1,2-Dichloroethene	96	7.899	7.927	(0.792)	161837	27.0676	27.0676
17 Isopropyl Ether (DIPE)	45	8.432	8.470	(0.846)	652974	27.3366	27.3365
18 Vinyl Acetate	43	8.501	8.529	(0.853)	338114	22.3441	22.3440
19 1,1-Dichloroethane	63	8.540	8.578	(0.857)	320110	27.2273	27.2273
20 Ethyl tert-Butyl Ether (ETBE)	59	8.935	8.962	(0.896)	544591	27.4027	27.4026
21 2-Butanone	43	9.339	9.376	(0.937)	107753	26.3825	26.3825
22 2,2-Dichloropropane	77	9.339	9.366	(0.937)	247521	26.8797	26.8796

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL05.D
Report Date: 21-Mar-2008 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	23 cis-1,2-Dichloroethene	96	9.359	9.396	(0.939)	186678	28.6977	28.6976
	24 Bromochloromethane	128	9.724	9.751	(0.975)	106475	28.8232	28.8232
	25 Tetrahydrofuran	42	9.734	9.761	(0.976)	606205	262.822	262.8217
	26 Chloroform	83	9.763	9.790	(0.979)	326043	27.5636	27.5636
*	27 Pentafluorobenzene	168	9.970	10.007	(1.000)	470932	50.0000	
	28 Dibromofluoromethane	113	10.000	10.037	(1.003)	293947	54.8377	54.8377
	29 1,1,1-Trichloroethane	97	10.039	10.066	(1.007)	243251	26.6923	26.6923
	30 Carbon Tetrachloride	117	10.237	10.273	(0.923)	201216	28.3122	28.3121
	31 1,1-Dichloropropene	75	10.256	10.293	(0.924)	221584	25.6097	25.6096
	32 1,2-Dichloroethane-d4	65	10.552	10.589	(0.951)	329355	51.1327	51.1327
	33 Benzene	78	10.572	10.598	(0.953)	597876	26.0499	26.0498(R)
	34 Methyl tert-Amyl Ether (TAME)	73	10.592	10.618	(0.955)	452560	27.9935	27.9935
	35 1,2-Dichloroethane	62	10.671	10.697	(0.962)	261243	26.7751	26.7751
*	36 1,4-Difluorobenzene	114	11.095	11.121	(1.000)	728615	50.0000	
	37 Trichloroethene	95	11.489	11.515	(1.036)	164489	25.5857	25.5857(R)
	38 Trifluorotoluene	146	11.864	11.900	(1.069)	229146	22.8424	22.8423
	39 1,2-Dichloropropane	63	11.903	11.929	(1.073)	175366	26.1542	26.1541
	40 Dibromomethane	93	12.091	12.127	(1.090)	131514	26.8674	26.8674
	41 Bromodichloromethane	83	12.258	12.284	(1.105)	258873	27.2061	27.2061
	43 Tetramethyl THF	43	12.850	12.876	(1.158)	396254	24.7778	24.7777
	44 cis-1,3-Dichloropropene	75	12.890	12.925	(1.162)	263879	26.6636	26.6635
	45 4-Methyl-2-Pentanone	43	13.047	13.073	(1.176)	195359	21.8520	21.8519
	46 Toluene-d8	98	13.235	13.260	(1.193)	758209	50.0474	50.0473
	47 Toluene	92	13.323	13.349	(1.201)	350828	25.8416	25.8416(R)
	48 trans-1,3-Dichloropropene	75	13.669	13.694	(1.232)	226461	23.7161	23.7161
	49 1,1,2-Trichloroethane	85	13.935	13.960	(1.256)	84841	27.3217	27.3217
	50 Tetrachloroethene	166	14.053	14.078	(0.924)	162748	23.6712	23.6711
	51 2-Hexanone	43	14.181	14.207	(0.933)	153683	22.3758	22.3758
	52 1,3-Dichloropropane	76	14.181	14.207	(0.933)	260597	25.4095	25.4095
	53 Dibromochloromethane	129	14.467	14.483	(0.951)	194555	25.9142	25.9141
	54 1,2-Dibromoethane	107	14.665	14.690	(1.322)	160324	26.5549	26.5548
*	55 Chlorobenzene-d5	117	15.207	15.222	(1.000)	661411	50.0000	
	56 Chlorobenzene	112	15.247	15.261	(1.003)	378498	25.4285	25.4284(R)
	57 Ethylbenzene	91	15.296	15.321	(1.006)	656580	25.0950	25.0949
	58 1,1,1,2-Tetrachloroethane	131	15.325	15.360	(1.008)	147087	25.9950	25.9949
	59 m,p-Xylenes	106	15.444	15.468	(1.016)	479000	49.4250	49.4249
	60 o-Xylene	106	15.947	15.971	(1.049)	248170	25.0739	25.0739
	61 Styrene	104	15.976	16.001	(1.051)	429763	25.3883	25.3882
	62 Bromoform	173	16.272	16.297	(1.070)	130619	24.3700	24.3699
	63 Isopropylbenzene	105	16.351	16.375	(0.911)	555954	21.7287	21.7286
	64 Cyclohexanone	55	16.598	16.612	(0.925)	89219	57.5185	57.5185
	65 Bromofluorobenzene	95	16.617	16.642	(0.926)	347846	50.2282	50.2282
	66 1,1,2,2-Tetrachloroethane	83	16.765	16.789	(0.935)	207424	24.3935	24.3935
	67 Bromobenzene	156	16.824	16.839	(0.938)	186986	25.0969	25.0969
	68 Propylbenzene	91	16.834	16.849	(0.938)	757471	24.0723	24.0723
	69 1,2,3-Trichloropropane	75	16.854	16.878	(0.940)	180769	24.7141	24.7140
	70 2-Chlorotoluene	91	17.002	17.026	(0.948)	520009	24.5265	24.5264
	71 1,3,5-Trimethylbenzene	105	17.022	17.036	(0.949)	518933	25.1429	25.1429
	72 4-Chlorotoluene	91	17.130	17.144	(0.955)	493515	24.6455	24.6454
	73 tert-Butylbenzene	119	17.396	17.411	(0.970)	449173	24.4979	24.4978
	74 1,2,4-Trimethylbenzene	105	17.456	17.470	(0.973)	552712	26.2156	26.2155
	75 sec-Butylbenzene	105	17.633	17.657	(0.983)	674596	24.2851	24.2851
	76 para-Isopropyl Toluene	119	17.781	17.795	(0.991)	572203	24.6370	24.6369
	77 1,3-Dichlorobenzene	146	17.860	17.884	(0.996)	343619	25.3098	25.3097

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL05.D
Report Date: 21-Mar-2008 11:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
* 78 1,4-Dichlorobenzene-d4	152	17.939	17.953	(1.000)	368409	50.0000	
79 1,4-Dichlorobenzene	146	17.968	17.982	(1.002)	330805	24.4426	24.4425
80 n-Butylbenzene	91	18.245	18.268	(1.017)	581343	24.2330	24.2329
81 1,2-Dichlorobenzene	146	18.422	18.436	(1.027)	335008	25.8474	25.8473
82 1,2-Dibromo-3-Chloropropane	75	19.359	19.382	(1.079)	47156	23.3448	23.3447
83 1,2,4-Trichlorobenzene	180	20.414	20.437	(1.138)	240410	25.4051	25.4051
84 Hexachlorobutadiene	225	20.533	20.555	(1.145)	121397	22.0881	22.0880
85 Naphthalene	128	20.819	20.841	(1.161)	554208	25.4857	25.4856
86 1,2,3-Trichlorobenzene	180	21.174	21.196	(1.180)	218542	24.9662	24.9661

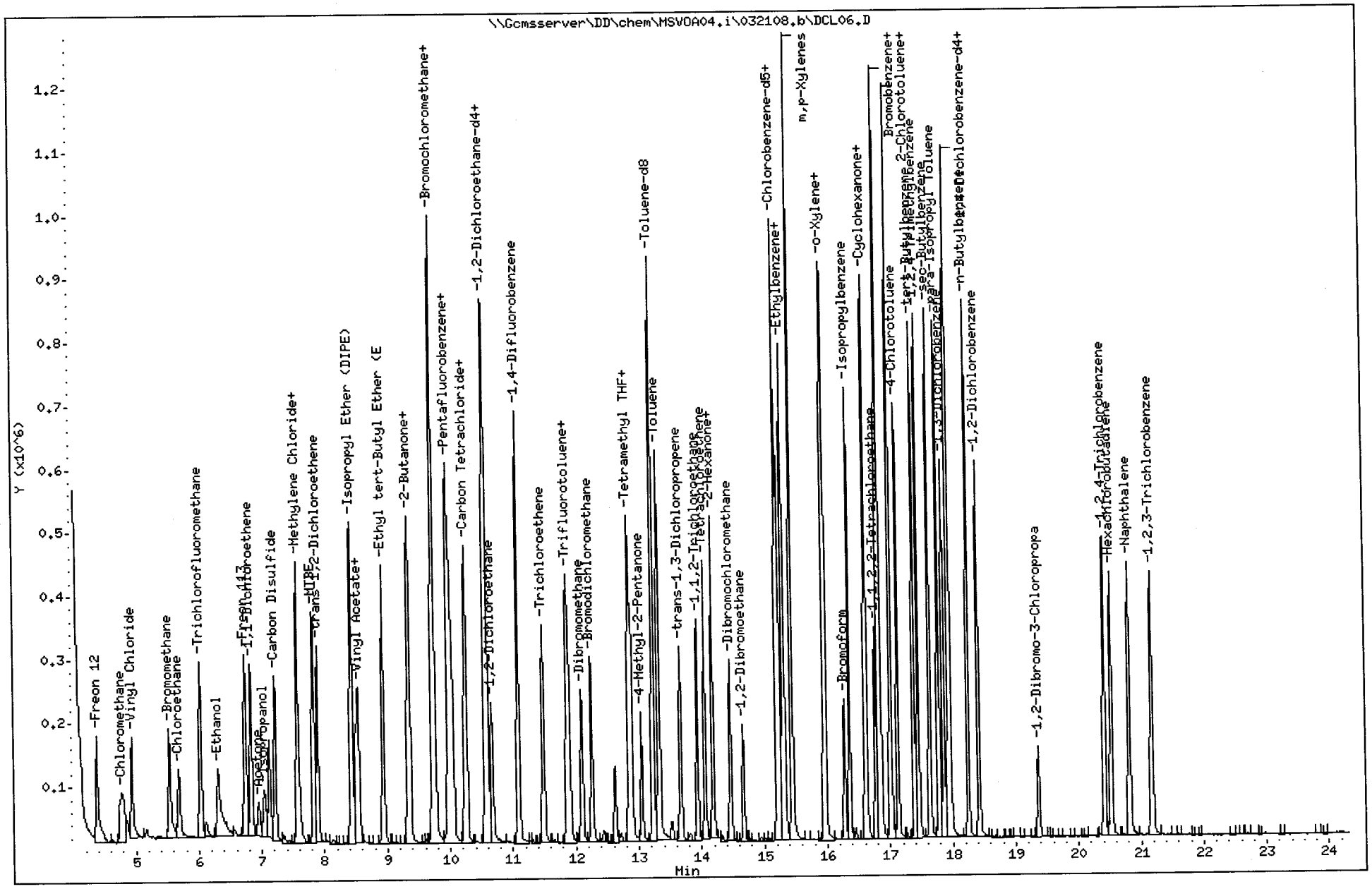
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL06.D
Date : 21-MAR-2008 10:32
Client ID: DYNA P&T
Sample Info: BSD,QC433941,136236,S8648,0.01/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i

Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL06.D
Report Date: 21-Mar-2008 14:16

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL06.D
Lab Smp Id:
Inj Date : 21-MAR-2008 10:32
Operator : VOC
Smp Info : BSD,QC433941,136236,S8648,0.01/100
Misc Info : S8721,.01/100,S8538,.01/100
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\826GOX4S.m
Meth Date : 21-Mar-2008 14:15 msvoa04
Cal Date : 14-MAR-2008 18:54
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA04

Client Smp ID: DYNA P&T
MS Autotune Date: 12-MAR-2008 09:04
Inst ID: MSVOA04.i
Quant Type: ISTD
Cal File: DCE15.D
QC Sample: BSD
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
1 Freon 12	85	4.383	4.408	(0.439)	258698	23.2592	23.2591
2 Chloromethane	50	4.787	4.812	(0.480)	242062	26.4175	26.4174
3 Vinyl Chloride	62	4.935	4.960	(0.495)	244656	29.0689	29.0689
4 Bromomethane	94	5.536	5.561	(0.555)	184712	30.4203	30.4202
5 Chloroethane	64	5.684	5.709	(0.570)	136863	30.9337	30.9336(M)
6 Trichlorofluoromethane	101	6.030	6.054	(0.605)	301178	30.7709	30.7709
7 Ethanol	45	6.306	6.350	(0.632)	339440	3061.69	3061.6872(M)
8 Freon 113	101	6.740	6.764	(0.676)	161878	25.3665	25.3664
9 1,1-Dichloroethene	96	6.828	6.863	(0.685)	152050	28.0321	28.0320(R)
10 Acetone	43	6.947	6.981	(0.696)	96654	30.8377	30.8376
11 Isopropanol	45	7.045	7.070	(0.706)	175068	257.028	257.0281(M)
12 Carbon Disulfide	76	7.213	7.247	(0.723)	470650	24.0795	24.0795
13 Methylene Chloride	84	7.568	7.602	(0.759)	240368	35.9667	35.9667
14 tert-Butyl Alcohol (TBA)	59	7.598	7.632	(0.762)	145709	154.388	154.3882
15 MTBE	73	7.824	7.858	(0.784)	458696	27.7767	27.7767
16 trans-1,2-Dichloroethene	96	7.893	7.927	(0.791)	148962	26.9982	26.9982
17 Isopropyl Ether (DIPE)	45	8.436	8.470	(0.846)	592112	26.8621	26.8620
18 Vinyl Acetate	43	8.505	8.529	(0.853)	322126	23.0681	23.0681
19 1,1-Dichloroethane	63	8.544	8.578	(0.857)	295835	27.2673	27.2673
20 Ethyl tert-Butyl Ether (ETBE)	59	8.939	8.962	(0.896)	495844	27.0368	27.0367
21 2-Butanone	43	9.343	9.376	(0.937)	113616	30.1449	30.1448
22 2,2-Dichloropropane	77	9.333	9.366	(0.936)	224645	26.4360	26.4360

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL06.D
Report Date: 21-Mar-2008 14:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	23 cis-1,2-Dichloroethene	96	9.363	9.396	(0.939)	166542	27.7437	27.7437
	24 Bromochloromethane	128	9.718	9.751	(0.974)	93990	27.5717	27.5717
	25 Tetrahydrofuran	42	9.728	9.761	(0.975)	629210	295.614	295.6139
	26 Chloroform	83	9.757	9.790	(0.978)	294504	26.9799	26.9798
*	27 Pentafluorobenzene	168	9.974	10.007	(1.000)	434581	50.0000	
	28 Dibromofluoromethane	113	10.004	10.037	(1.003)	277914	56.1835	56.1834
	29 1,1,1-Trichloroethane	97	10.043	10.066	(1.007)	220099	26.1720	26.1720
	30 Carbon Tetrachloride	117	10.241	10.273	(0.924)	177322	26.8729	26.8729
	31 1,1-Dichloropropene	75	10.260	10.293	(0.925)	202521	25.2103	25.2102
	32 1,2-Dichloroethane-d4	65	10.556	10.589	(0.952)	310073	51.8489	51.8489
	33 Benzene	78	10.576	10.598	(0.954)	544801	25.5666	25.5666(R)
	34 Methyl tert-Amyl Ether (TAME)	73	10.596	10.618	(0.956)	415052	27.6519	27.6519
	35 1,2-Dichloroethane	62	10.675	10.697	(0.963)	233398	25.7647	25.7647
*	36 1,4-Difluorobenzene	114	11.089	11.121	(1.000)	676483	50.0000	
	37 Trichloroethene	95	11.483	11.515	(1.036)	152570	25.5606	25.5606(R)
	38 Trifluorotoluene	146	11.868	11.900	(1.070)	214849	23.0677	23.0676
	39 1,2-Dichloropropane	63	11.897	11.929	(1.073)	157364	25.2780	25.2779
	40 Dibromomethane	93	12.095	12.127	(1.091)	119861	26.3738	26.3738
	41 Bromodichloromethane	83	12.252	12.284	(1.105)	228077	25.8168	25.8168
	43 Tetramethyl THF	43	12.854	12.876	(1.159)	359715	24.2264	24.2263
	44 cis-1,3-Dichloropropene	75	12.893	12.925	(1.163)	232814	25.3375	25.3375
	45 4-Methyl-2-Pentanone	43	13.041	13.073	(1.176)	187643	22.6064	22.6063
	46 Toluene-d8	98	13.229	13.260	(1.193)	711628	50.5925	50.5925
	47 Toluene	92	13.327	13.349	(1.202)	320585	25.4337	25.4337(R)
	48 trans-1,3-Dichloropropene	75	13.673	13.694	(1.233)	204970	23.1197	23.1196
	49 1,1,2-Trichloroethane	85	13.939	13.960	(1.257)	76267	26.4533	26.4533
	50 Tetrachloroethene	166	14.057	14.078	(0.925)	147450	23.0375	23.0375
	51 2-Hexanone	43	14.176	14.207	(0.933)	156711	24.5098	24.5098
	52 1,3-Dichloropropane	76	14.185	14.207	(0.933)	237853	24.9128	24.9127
	53 Dibromochloromethane	129	14.462	14.483	(0.951)	171700	24.5670	24.5670
	54 1,2-Dibromoethane	107	14.669	14.690	(1.323)	148266	26.4502	26.4501
*	55 Chlorobenzene-d5	117	15.201	15.222	(1.000)	615722	50.0000	
	56 Chlorobenzene	112	15.241	15.261	(1.003)	338658	24.4402	24.4402(R)
	57 Ethylbenzene	91	15.300	15.321	(1.006)	602872	24.7520	24.7520
	58 1,1,1,2-Tetrachloroethane	131	15.329	15.360	(1.008)	132298	25.1163	25.1162
	59 m,p-Xylenes	106	15.448	15.468	(1.016)	439294	48.6915	48.6914
	60 o-Xylene	106	15.951	15.971	(1.049)	223456	24.2523	24.2522
	61 Styrene	104	15.970	16.001	(1.051)	387737	24.6053	24.6052
	62 Bromoform	173	16.276	16.297	(1.071)	118615	23.7725	23.7725
	63 Isopropylbenzene	105	16.355	16.375	(0.912)	519769	22.1499	22.1499
	64 Cyclohexanone	55	16.592	16.612	(0.925)	90786	63.8171	63.8170
	65 Bromofluorobenzene	95	16.621	16.642	(0.927)	323714	50.9671	50.9671
	66 1,1,2,2-Tetrachloroethane	83	16.769	16.789	(0.935)	192010	24.6211	24.6210
	67 Bromobenzene	156	16.819	16.839	(0.938)	168756	24.6967	24.6966
	68 Propylbenzene	91	16.828	16.849	(0.938)	694668	24.0712	24.0711
	69 1,2,3-Trichloropropane	75	16.858	16.878	(0.940)	165819	24.7185	24.7185
	70 2-Chlorotoluene	91	17.006	17.026	(0.948)	475183	24.4373	24.4372
	71 1,3,5-Trimethylbenzene	105	17.016	17.036	(0.949)	475123	25.1003	25.1002
	72 4-Chlorotoluene	91	17.124	17.144	(0.955)	442018	24.0682	24.0682
	73 tert-Butylbenzene	119	17.390	17.411	(0.970)	422648	25.1340	25.1340
	74 1,2,4-Trimethylbenzene	105	17.460	17.470	(0.974)	506241	26.1810	26.1809
	75 sec-Butylbenzene	105	17.637	17.657	(0.984)	629203	24.6976	24.6976
	76 para-Isopropyl Toluene	119	17.775	17.795	(0.991)	529844	24.8744	24.8744
	77 1,3-Dichlorobenzene	146	17.864	17.884	(0.996)	307902	24.7281	24.7281

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL06.D
Report Date: 21-Mar-2008 14:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
* 78 1,4-Dichlorobenzene-d4	152	17.933	17.953	(1.000)	337880	50.0000	
79 1,4-Dichlorobenzene	146	17.962	17.982	(1.002)	301438	24.2852	24.2851
80 n-Butylbenzene	91	18.248	18.268	(1.018)	541637	24.6179	24.6178
81 1,2-Dichlorobenzene	146	18.416	18.436	(1.027)	298116	25.0792	25.0792
82 1,2-Dibromo-3-Chloropropane	75	19.363	19.382	(1.080)	45579	24.6029	24.6028
83 1,2,4-Trichlorobenzene	180	20.418	20.437	(1.139)	211516	24.3714	24.3713
84 Hexachlorobutadiene	225	20.527	20.555	(1.145)	112503	22.3194	22.3193
85 Naphthalene	128	20.822	20.841	(1.161)	512088	25.6765	25.6765
86 1,2,3-Trichlorobenzene	180	21.177	21.196	(1.181)	192082	23.9261	23.9260

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 MSVOA Soil
EPA 8260B

Type	: MSS	Type	: MS	Type	: MSD
Inst	: MSVOA05	Inst	: MSVOA05	Inst	: MSVOA05
Seqnum	: 448115696013	Seqnum	: 448115696021.1	Seqnum	: 448115696022.1
File	: eck13	File	: eck21	File	: eck22
IDF	: 0.7813	IDF	: 0.7576	IDF	: 0.8197
PDF	: 1.0	PDF	: 1.0	PDF	: 1.0
Lab ID	: 202043-001	Lab ID	: QC433792	Lab ID	: QC433793
Matrix	: Soil	Matrix	: Soil	Matrix	: Soil
Batch	: 136185	Batch	: 136185	Batch	: 136185
Time	: 20-MAR-2008 14:50	Time	: 20-MAR-2008 19:16	Time	: 20-MAR-2008 19:49
Cal	: 448110396001	Cal	: 448110396001	Cal	: 448110396001
Caltype	: SOIL	Caltype	: SOIL	Caltype	: SOIL
Units	: ug/Kg				

Analyte	MSS	Spiked	MS	%Rec	Spiked	MSD	%Rec	Limits	RPD	Lim	Flags
1,1-Dichloroethene	ND	37.88	34.94	92	40.98	40.73	99	55-139	7	29	u
Benzene	ND	37.88	35.36	93	40.98	38.22	93	55-120	0	26	u
Trichloroethene	ND	37.88	38.91	103	40.98	44.79	109	47-140	6	28	u
Toluene	ND	37.88	39.64	105	40.98	42.26	103	52-121	1	29	u
Chlorobenzene	ND	37.88	36.82	97	40.98	43.98	107	47-120	10	29	u
Dibromofluoromethane		37.88	32.55	86	40.98	34.98	85	78-126			u
1,2-Dichloroethane-d4		37.88	32.23	85	40.98	33.84	83	76-137			u
Toluene-d8		37.88	38.99	103	40.98	40.73	99	80-120			u
Bromofluorobenzene		37.88	38.29	101	40.98	41.44	101	80-121			u

ISTD (ICAL ecg11)	ICAL Area	MS Area	%Drift	ICAL RT	MS RT	Drift
Pentafluorobenzene	751961	1023091	36.06	9.80	9.79	-0.01
1,4-Difluorobenzene	1093331	1344813	23.00	10.90	10.90	0.00
Chlorobenzene-d5	980726	1135866	15.82	15.00	15.00	0.00
1,4-Dichlorobenzene-d4	574120	625169	8.89	17.72	17.72	0.00

ISTD (ICAL ecg11)	ICAL Area	MSD Area	%Drift	ICAL RT	MSD RT	Drift
Pentafluorobenzene	751961	1034748	37.61	9.80	9.80	0.00
1,4-Difluorobenzene	1093331	1391052	27.23	10.90	10.90	0.00
Chlorobenzene-d5	980726	1124521	14.66	15.00	15.00	0.00
1,4-Dichlorobenzene-d4	574120	619213	7.85	17.72	17.72	0.00

BO 03/21/08 : MSD idf fixed in LIMS [general version]

Analyst: MJD Date: 03/21/08 Reviewer: ACM Date: 03/21/08

u=use

448115696022.1

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK21.D

Date : 20-MAR-2008 19:16

Client ID: DYNA P&T

Instrument: MSVOA05.i

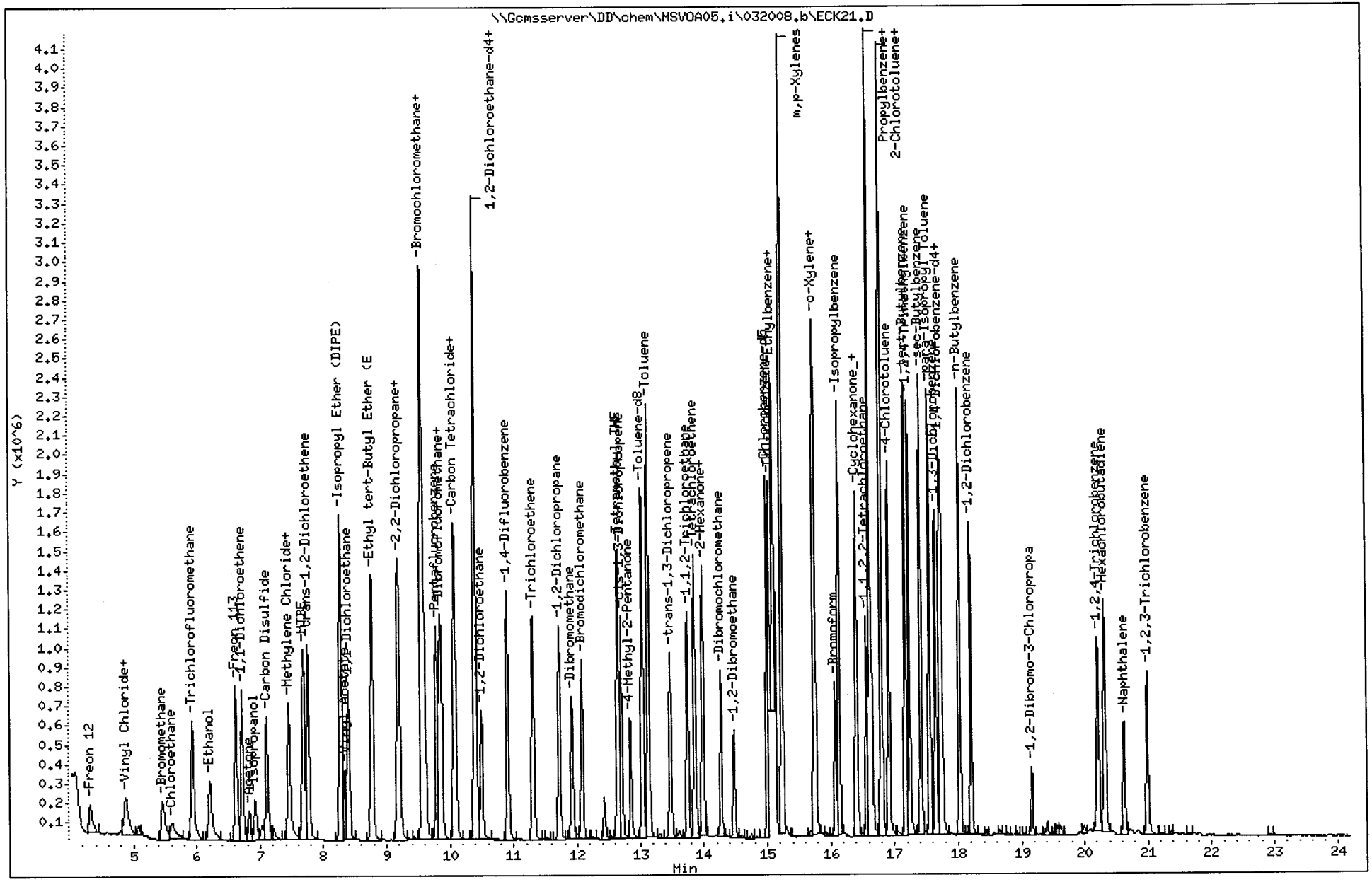
Sample Info: MS,QC433792,6.6/5,S8648,5000X,

Purge Volume: 5.0

Operator: VOC

Column phase: RTX 624

Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK21.D
Report Date: 21-Mar-2008 10:44

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK21.D
Lab Smp Id:
Inj Date : 20-MAR-2008 19:16
Operator : VOC
Smp Info : MS,QC433792,6.6/5,S8648,5000X,
Misc Info : S8534,5000X,S8538,5000X
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06
Cal Date : 16-MAR-2008 18:55
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA06

Client Smp ID: DYNA P&T
MS Autotune Date: 08-JAN-2007 16:49
Inst ID: MSVOA05.i
Quant Type: ISTD
Cal File: ECG07.D
QC Sample: MS
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
1 Freon 12	85	4.320	4.339	(0.441)	591880	22.2791	22.2791(M)
2 Chloromethane	50	4.871	4.802	(0.498)	494490	31.9717	31.9717(M)
3 Vinyl Chloride	62	4.891	4.891	(0.500)	510715	30.6478	30.6478(M)
4 Bromomethane	94	5.463	5.483	(0.558)	393215	47.5747	47.5747(M)
5 Chloroethane	64	5.611	5.620	(0.573)	227449	28.9088	28.9088(M)
6 Trichlorofluoromethane	101	5.936	5.955	(0.606)	842699	37.8266	37.8266(M)
7 Ethanol	45	6.212	6.231	(0.635)	727250	4534.00	4534.0029(A)
8 Freon 113	101	6.626	6.646	(0.677)	491143	41.2799	41.2798
9 1,1-Dichloroethene	96	6.724	6.744	(0.687)	417014	46.1203	46.1202(R)
10 Acetone	43	6.833	6.852	(0.698)	265417	62.8998	62.8997
11 Isopropanol	45	6.921	6.941	(0.707)	426729	440.456	440.4555(A)
12 Carbon Disulfide	76	7.109	7.128	(0.726)	1338687	34.3571	34.3571
13 Methylene Chloride	84	7.454	7.463	(0.761)	450278	35.9578	35.9577
14 tert-Butyl Alcohol (TBA)	59	7.463	7.483	(0.762)	337525	238.360	238.3604(A)
15 MTBE	73	7.690	7.700	(0.786)	1432684	42.2461	42.2460
16 trans-1,2-Dichloroethene	96	7.759	7.779	(0.793)	511112	45.7596	45.7596
17 Isopropyl Ether (DIPE)	45	8.272	8.281	(0.845)	2262344	41.3010	41.3009(A)
18 Vinyl Acetate	43	8.341	8.359	(0.852)	757720	21.3252	21.3252
19 1,1-Dichloroethane	63	8.400	8.409	(0.858)	1015564	40.7256	40.7256
20 Ethyl tert-Butyl Ether (ETBE)	59	8.764	8.784	(0.895)	1818300	43.7594	43.7593(A)
21 2,2-Dichloropropane	77	9.178	9.188	(0.938)	734708	41.1526	41.1526
22 2-Butanone	43	9.178	9.198	(0.938)	346680	42.1501	42.1501

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK21.D
Report Date: 21-Mar-2008 10:44

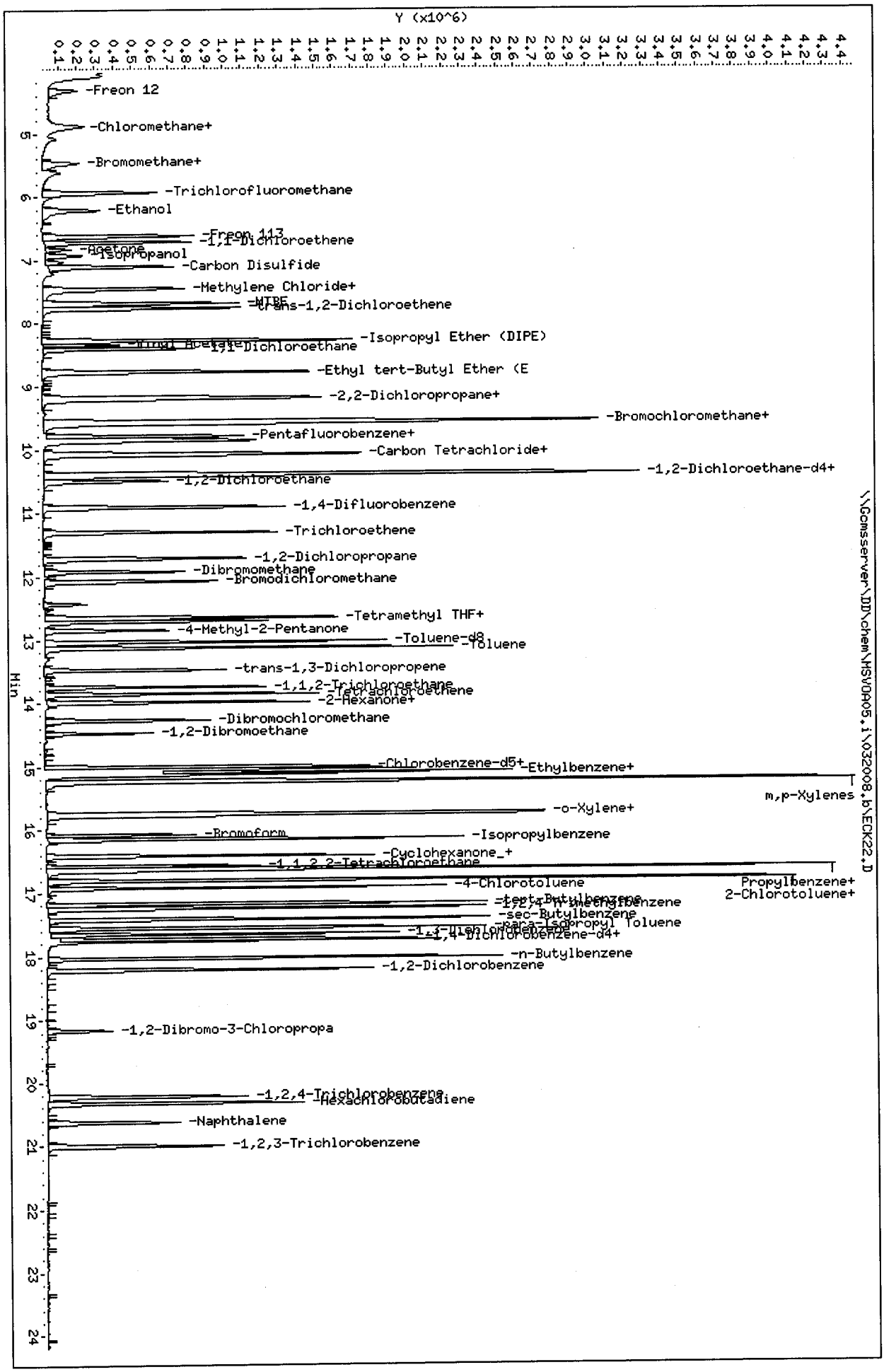
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	23 cis-1,2-Dichloroethene	96	9.198	9.218	(0.940)	586944	46.7854	46.7853
	24 Bromochloromethane	128	9.563	9.573	(0.977)	271765	43.4178	43.4178
	25 Tetrahydrofuran	42	9.563	9.572	(0.977)	1903688	413.981	413.9808(A)
	26 Chloroform	83	9.602	9.612	(0.981)	1037035	41.4785	41.4784
*	27 Pentafluorobenzene	168	9.789	9.799	(1.000)	1023091	50.0000	
	28 Dibromofluoromethane	113	9.838	9.848	(1.005)	531802	42.9704	42.9703
	29 1,1,1-Trichloroethane	97	9.868	9.878	(1.008)	780763	46.7338	46.7337
	30 Carbon Tetrachloride	117	10.065	10.075	(0.923)	637943	50.1213	50.1212
	31 1,1-Dichloropropene	75	10.085	10.094	(0.925)	759870	48.0831	48.0830
	32 1,2-Dichloroethane-d4	65	10.381	10.400	(0.952)	526944	42.5422	42.5422
	33 Benzene	78	10.400	10.400	(0.954)	2044402	46.6807	46.6807(R)
	34 Methyl tert-Amyl Ether (TAME)	73	10.400	10.420	(0.954)	1600575	53.7918	53.7917(A)
	35 1,2-Dichloroethane	62	10.499	10.508	(0.963)	660165	43.1775	43.1775
*	36 1,4-Difluorobenzene	114	10.903	10.912	(1.000)	1344813	50.0000	
	37 Trichloroethene	95	11.307	11.307	(1.037)	534032	51.3565	51.3565(R)
	39 1,2-Dichloropropane	63	11.721	11.730	(1.075)	574374	43.8224	43.8223
	40 Dibromomethane	93	11.918	11.928	(1.093)	364740	46.1642	46.1641
	41 Bromodichloromethane	83	12.076	12.086	(1.108)	773283	47.4374	47.4374
	42 Tetramethyl THF	43	12.647	12.657	(1.160)	1275069	45.2531	45.2530(A)
	43 cis-1,3-Dichloropropene	75	12.706	12.716	(1.165)	839449	43.9567	43.9567
	44 4-Methyl-2-Pentanone	43	12.844	12.854	(1.178)	632623	43.2598	43.2598
	45 Toluene-d8	98	13.032	13.041	(1.195)	1518336	51.4707	51.4707
	46 Toluene	92	13.130	13.140	(1.204)	1175103	52.3299	52.3299(R)
	47 trans-1,3-Dichloropropene	75	13.485	13.485	(1.237)	673883	39.1647	39.1646
	48 1,1,2-Trichloroethane	85	13.751	13.751	(1.261)	281873	49.0530	49.0529
	49 Tetrachloroethene	166	13.859	13.869	(0.924)	551431	57.4407	57.4407
	50 2-Hexanone	43	13.978	13.977	(0.932)	475890	47.0827	47.0826
	51 1,3-Dichloropropane	76	13.997	13.998	(0.933)	784582	45.8315	45.8315
	52 Dibromochloromethane	129	14.273	14.283	(0.951)	531044	48.3374	48.3373
	53 1,2-Dibromoethane	107	14.480	14.481	(1.328)	456567	49.0322	49.0321
*	54 Chlorobenzene-d5	117	15.003	15.012	(1.000)	1135866	50.0000	
	55 Chlorobenzene	112	15.042	15.052	(1.003)	1073907	48.5995	48.5995(R)
	56 Ethylbenzene	91	15.091	15.101	(1.006)	2113899	51.2078	51.2077
	57 1,1,1,2-Tetrachloroethane	131	15.131	15.131	(1.009)	464998	50.9330	50.9329
	58 m,p-Xylenes	106	15.239	15.239	(1.016)	1381926	103.718	103.7183
	59 o-Xylene	106	15.742	15.742	(1.049)	712050	52.4473	52.4472
	60 Styrene	104	15.771	15.772	(1.051)	1166053	49.1378	49.1377
	61 Bromoform	173	16.077	16.077	(1.072)	414667	50.9966	50.9965
	62 Isopropylbenzene	105	16.146	16.146	(0.911)	1679271	50.2124	50.2124
	63 Cyclohexanone_	55	16.392	16.402	(0.925)	253512	151.566	151.5662(A)
	64 Bromofluorobenzene	95	16.412	16.421	(0.926)	606355	50.5397	50.5396
	65 1,1,2,2-Tetrachloroethane	83	16.570	16.569	(0.935)	671046	50.1495	50.1495
	66 Propylbenzene	91	16.619	16.619	(0.938)	2346956	53.0302	53.0302
	67 Bromobenzene	156	16.619	16.619	(0.938)	553649	51.7396	51.7396
	68 1,2,3-Trichloropropane	75	16.658	16.658	(0.940)	487908	47.7721	47.7720(M)
	69 2-Chlorotoluene	91	16.796	16.806	(0.948)	1502921	51.6686	51.6685
	70 1,3,5-Trimethylbenzene	105	16.806	16.806	(0.948)	1440093	55.4715	55.4715
	71 4-Chlorotoluene	91	16.924	16.924	(0.955)	1292731	49.4384	49.4383
	72 tert-Butylbenzene	119	17.181	17.180	(0.969)	1240930	55.8776	55.8776
	73 1,2,4-Trimethylbenzene	105	17.240	17.239	(0.973)	1372436	56.1656	56.1656
	74 sec-Butylbenzene	105	17.417	17.417	(0.983)	1915242	54.3598	54.3597
	75 para-Isopropyl Toluene	119	17.555	17.565	(0.991)	1466996	55.7859	55.7858
	76 1,3-Dichlorobenzene	146	17.654	17.653	(0.996)	858276	48.1448	48.1448
*	77 1,4-Dichlorobenzene-d4	152	17.723	17.732	(1.000)	625169	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK21.D
Report Date: 21-Mar-2008 10:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
78 1,4-Dichlorobenzene	146	17.752	17.752	(1.002)	835549	45.3535	45.3534
79 n-Butylbenzene	91	18.028	18.028	(1.017)	1529584	58.0915	58.0914
80 1,2-Dichlorobenzene	146	18.206	18.206	(1.027)	830163	47.5247	47.5247
81 1,2-Dibromo-3-Chloropropane	75	19.161	19.162	(1.081)	102328	46.3694	46.3694
82 1,2,4-Trichlorobenzene	180	20.216	20.226	(1.141)	439471	48.0595	48.0594
83 Hexachlorobutadiene	225	20.324	20.325	(1.147)	372205	51.9315	51.9314
84 Naphthalene	128	20.630	20.630	(1.164)	685262	42.2059	42.2059
85 1,2,3-Trichlorobenzene	180	20.995	20.995	(1.185)	409996	44.2036	44.2036

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK22.D
Date : 20-MAR-2008 19:49
Client ID: DYNA P&T
Sample Info: MSD,QC433793,6.6/5,S8648,5000X,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i
Operator: VOC
Column diameter: 0.25

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK22.D
Report Date: 21-Mar-2008 11:22

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK22.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 20-MAR-2008 19:49 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : MSD,QC433793,6.6/5,S8648,5000X,
Misc Info : S8534,5000X,S8538,5000X
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 22 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	4.319	4.339	(0.441)	609530	22.7175	22.7175(M)
2 Chloromethane	50	4.890	4.802	(0.499)	512185	32.7428	32.7427(M)
3 Vinyl Chloride	62	4.880	4.891	(0.498)	546987	32.4381	32.4380(M)
4 Bromomethane	94	5.462	5.483	(0.557)	387034	46.4780	46.4779(M)
5 Chloroethane	64	5.620	5.620	(0.574)	248006	31.1884	31.1884(M)
6 Trichlorofluoromethane	101	5.935	5.955	(0.606)	874605	39.0491	39.0490(M)
7 Ethanol	45	6.211	6.231	(0.634)	764012	4709.53	4709.5337(A)
8 Freon 113	101	6.625	6.646	(0.676)	510315	42.4080	42.4080
9 1,1-Dichloroethene	96	6.723	6.744	(0.686)	454365	49.6851	49.6850(R)
10 Acetone	43	6.832	6.852	(0.697)	284771	66.7261	66.7261
11 Isopropanol	45	6.920	6.941	(0.706)	451485	460.758	460.7580(A)
12 Carbon Disulfide	76	7.108	7.128	(0.725)	1470089	37.3045	37.3044
13 Methylene Chloride	84	7.453	7.463	(0.761)	482080	38.0637	38.0636
14 tert-Butyl Alcohol (TBA)	59	7.462	7.483	(0.762)	372764	260.281	260.2806(A)
15 MTBE	73	7.689	7.700	(0.785)	1577420	45.9900	45.9899
16 trans-1,2-Dichloroethene	96	7.758	7.779	(0.792)	552489	48.9068	48.9068
17 Isopropyl Ether (DIPE)	45	8.271	8.281	(0.844)	2345820	42.3424	42.3424(A)
18 Vinyl Acetate	43	8.340	8.359	(0.851)	868615	24.1708	24.1708
19 1,1-Dichloroethane	63	8.399	8.409	(0.857)	1073839	42.5774	42.5774
20 Ethyl tert-Butyl Ether (ETBE)	59	8.773	8.784	(0.895)	1933932	46.0178	46.0178(A)
21 2,2-Dichloropropane	77	9.177	9.188	(0.937)	808530	44.7774	44.7773
22 2-Butanone	43	9.177	9.198	(0.937)	370744	44.5681	44.5680

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK22.D
Report Date: 21-Mar-2008 11:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	23 cis-1,2-Dichloroethene	96	9.207	9.218	(0.940)	602673	47.4979	47.4979
	24 Bromochloromethane	128	9.562	9.573	(0.976)	275758	43.5595	43.5594
	25 Tetrahydrofuran	42	9.562	9.572	(0.976)	1982217	426.202	426.2018(A)
	26 Chloroform	83	9.601	9.612	(0.980)	1080773	42.7409	42.7408
*	27 Pentafluorobenzene	168	9.798	9.799	(1.000)	1034748	50.0000	
	28 Dibromofluoromethane	113	9.838	9.848	(1.004)	534192	42.6772	42.6772
	29 1,1,1-Trichloroethane	97	9.867	9.878	(1.007)	797348	47.1889	47.1888
	30 Carbon Tetrachloride	117	10.064	10.075	(0.923)	698614	53.0635	53.0635
	31 1,1-Dichloropropene	75	10.084	10.094	(0.925)	831034	50.8382	50.8381
	32 1,2-Dichloroethane-d4	65	10.389	10.400	(0.953)	528961	41.2856	41.2855
	33 Benzene	78	10.389	10.400	(0.953)	2112295	46.6277	46.6277(R)
	34 Methyl tert-Amyl Ether (TAME)	73	10.409	10.420	(0.955)	1647034	53.5132	53.5132(A)
	35 1,2-Dichloroethane	62	10.498	10.508	(0.963)	674050	42.6202	42.6202
*	36 1,4-Difluorobenzene	114	10.902	10.912	(1.000)	1391052	50.0000	
	37 Trichloroethene	95	11.306	11.307	(1.037)	587762	54.6447	54.6447(R)
	39 1,2-Dichloropropane	63	11.720	11.730	(1.075)	586222	43.2396	43.2396
	40 Dibromomethane	93	11.917	11.928	(1.093)	386534	47.2964	47.2963
	41 Bromodichloromethane	83	12.075	12.086	(1.108)	796513	47.2383	47.2382
	42 Tetramethyl THF	43	12.656	12.657	(1.161)	1333792	45.7637	45.7636(A)
	43 cis-1,3-Dichloropropene	75	12.705	12.716	(1.165)	896095	45.3632	45.3631
	44 4-Methyl-2-Pentanone	43	12.853	12.854	(1.179)	686954	45.4136	45.4135
	45 Toluene-d8	98	13.041	13.041	(1.196)	1516293	49.6929	49.6928
	46 Toluene	92	13.129	13.140	(1.204)	1197660	51.5616	51.5615(R)
	47 trans-1,3-Dichloropropene	75	13.484	13.485	(1.237)	711190	39.9589	39.9589
	48 1,1,2-Trichloroethane	85	13.750	13.751	(1.261)	292142	49.1501	49.1501
	49 Tetrachloroethene	166	13.859	13.869	(0.924)	588022	61.8702	61.8702
	50 2-Hexanone	43	13.977	13.977	(0.932)	488224	48.7903	48.7902
	51 1,3-Dichloropropane	76	13.996	13.998	(0.933)	804378	47.4620	47.4619
	52 Dibromochloromethane	129	14.272	14.283	(0.951)	555892	51.1096	51.1095
	53 1,2-Dibromoethane	107	14.479	14.481	(1.328)	479491	49.7824	49.7823
*	54 Chlorobenzene-d5	117	15.002	15.012	(1.000)	1124521	50.0000	
	55 Chlorobenzene	112	15.041	15.052	(1.003)	1173880	53.6597	53.6597(R)
	56 Ethylbenzene	91	15.090	15.101	(1.006)	2250850	55.0754	55.0754
	57 1,1,1,2-Tetrachloroethane	131	15.130	15.131	(1.009)	483519	53.4960	53.4959
	58 m,p-Xylenes	106	15.238	15.239	(1.016)	1458220	110.549	110.5486
	59 o-Xylene	106	15.741	15.742	(1.049)	734544	54.6500	54.6499
	60 Styrene	104	15.770	15.772	(1.051)	1242119	52.8713	52.8713
	61 Bromoform	173	16.076	16.077	(1.072)	431063	53.5478	53.5478
	62 Isopropylbenzene	105	16.145	16.146	(0.911)	1692710	51.1011	51.1011
	63 Cyclohexanone_	55	16.391	16.402	(0.925)	266465	160.843	160.8427(A)
	64 Bromofluorobenzene	95	16.411	16.421	(0.926)	600833	50.5611	50.5611
	65 1,1,2,2-Tetrachloroethane	83	16.569	16.569	(0.935)	714323	53.8972	53.8972
	66 Propylbenzene	91	16.618	16.619	(0.938)	2473989	56.4383	56.4382
	67 Bromobenzene	156	16.618	16.619	(0.938)	590066	55.6732	55.6732
	68 1,2,3-Trichloropropane	75	16.657	16.658	(0.940)	514341	50.8446	50.8445(M)
	69 2-Chlorotoluene	91	16.795	16.806	(0.948)	1566017	54.3556	54.3555
	70 1,3,5-Trimethylbenzene	105	16.805	16.806	(0.948)	1478608	57.5030	57.5029
	71 4-Chlorotoluene	91	16.923	16.924	(0.955)	1417881	54.7461	54.7461
	72 tert-Butylbenzene	119	17.180	17.180	(0.969)	1289828	58.6381	58.6380
	73 1,2,4-Trimethylbenzene	105	17.239	17.239	(0.973)	1483371	61.2894	61.2894
	74 sec-Butylbenzene	105	17.416	17.417	(0.983)	1992978	57.1102	57.1102
	75 para-Isopropyl Toluene	119	17.554	17.565	(0.991)	1582653	60.7629	60.7628
	76 1,3-Dichlorobenzene	146	17.653	17.653	(0.996)	952818	53.9622	53.9622
*	77 1,4-Dichlorobenzene-d4	152	17.722	17.732	(1.000)	619213	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK22.D
Report Date: 21-Mar-2008 11:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
78 1,4-Dichlorobenzene	146	17.751	17.752	(1.002)	928703	50.8947	50.8947
79 n-Butylbenzene	91	18.027	18.028	(1.017)	1651771	63.3353	63.3353
80 1,2-Dichlorobenzene	146	18.205	18.206	(1.027)	898708	51.9436	51.9435
81 1,2-Dibromo-3-Chloropropane	75	19.161	19.162	(1.081)	107949	49.3871	49.3870
82 1,2,4-Trichlorobenzene	180	20.215	20.226	(1.141)	509076	53.5751	53.5751
83 Hexachlorobutadiene	225	20.323	20.325	(1.147)	419890	59.1482	59.1482
84 Naphthalene	128	20.629	20.630	(1.164)	830822	48.8704	48.8704
85 1,2,3-Trichlorobenzene	180	20.994	20.995	(1.185)	479609	50.1467	50.1466

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Curtis & Tompkins, Ltd.

Initial Calibration Raw Data

CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Run Name : BFB IDF : 1.0
Seqnum : 438107113004 File : dce04 Time : 14-MAR-2008 12:21

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	6101	25.23	
75	30% - 60% of mass 95	12881	53.27	
95		24179		
96	5% - 9% of mass 95	1609	6.65	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	20012	82.77	
175	5% - 9% of mass 174	1488	7.44	
176	> 95% and < 101% of mass 174	19999	99.94	
177	5% - 9% of mass 176	1339	6.70	

Analyst: MJD Date: 03/17/08 Reviewer: LW Date: 03/18/08

438107113004

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\031408.b\DCE04.D

Date : 14-MAR-2008 12:21

Client ID: bfb tune std

Instrument: MSVOA04.i

Sample Info: BFB,S7916

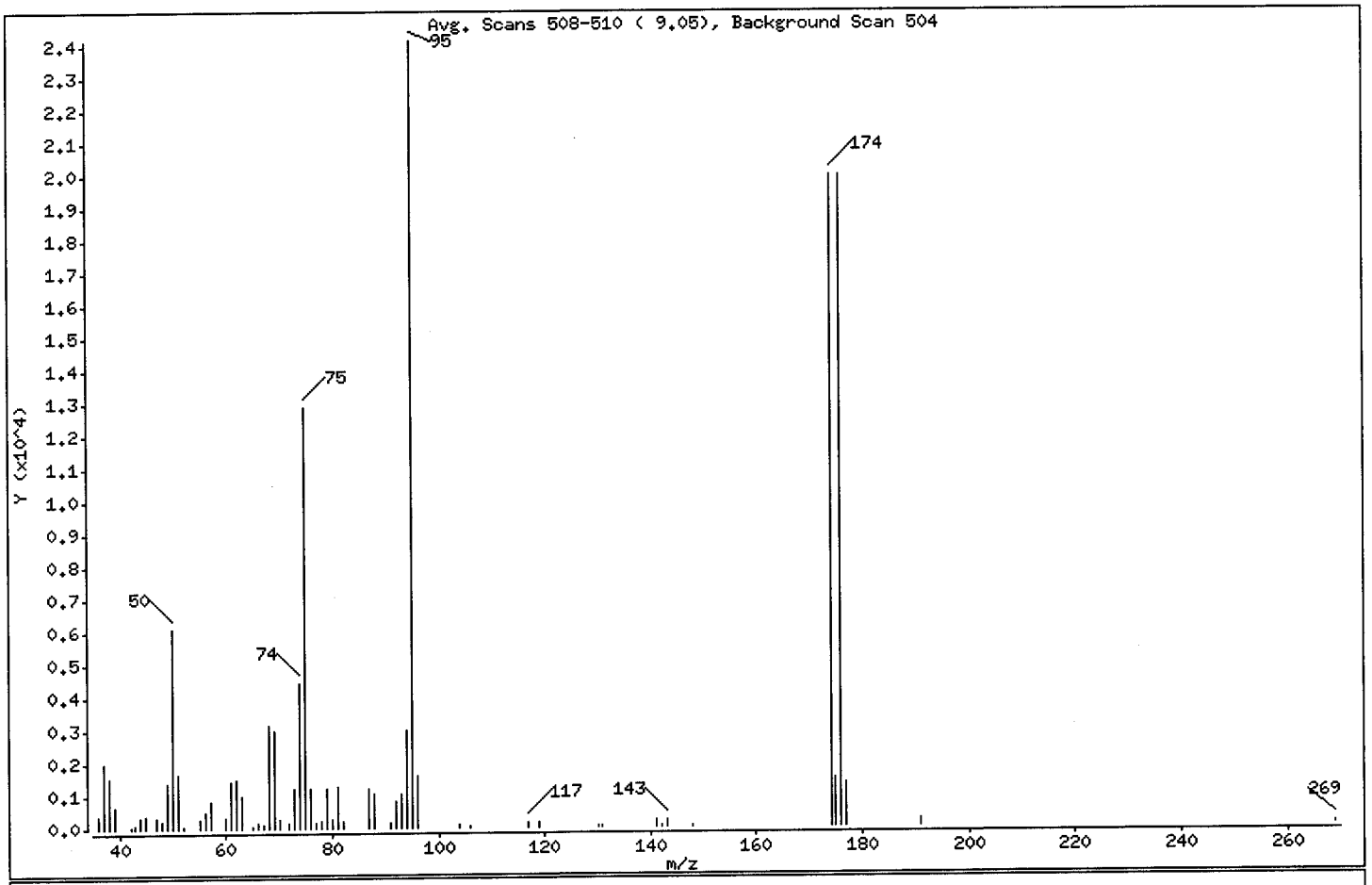
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.23
75	30.00 - 60.00% of mass 95	53.27
96	5.00 - 9.00% of mass 95	6.65
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	82.77
175	5.00 - 9.00% of mass 174	6.15 (7.44)
176	95.01 - 100.99% of mass 174	82.71 (99.94)
177	5.00 - 9.00% of mass 176	5.54 (6.70)

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\031408.b\DCE04.D

Date : 14-MAR-2008 12:21

Client ID: bfb tune std

Instrument: MSVOA04.i

Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

Data File: DCE04.D

Spectrum: Avg. Scans 508-510 (9.05), Background Scan 504

Location of Maximum: 95.00

Number of points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	411	57.00	841	77.00	175	117.00	168
37.00	2010	60.00	342	78.00	240	119.00	159
38.00	1574	61.00	1419	79.00	1209	130.00	56
39.00	651	62.00	1479	80.00	281	131.00	52
42.00	58	63.00	1005	81.00	1289	141.00	231
43.00	121	65.00	76	82.00	224	142.00	57
44.00	352	66.00	158	87.00	1203	143.00	235
45.00	385	67.00	134	88.00	1069	148.00	70
47.00	308	68.00	3159	91.00	183	174.00	20008
48.00	229	69.00	3006	92.00	809	175.00	1488
49.00	1366	70.00	285	93.00	1034	176.00	19992
50.00	6101	72.00	185	94.00	3012	177.00	1339
51.00	1689	73.00	1204	95.00	24176	191.00	197
52.00	58	74.00	4462	96.00	1609	269.00	64
55.00	257	75.00	12881	104.00	130		
56.00	511	76.00	1246	106.00	58		

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\031408.b\DCE04.D

Date : 14-MAR-2008 12:21

Client ID: bfb tune std

Instrument: MSVOA04.i

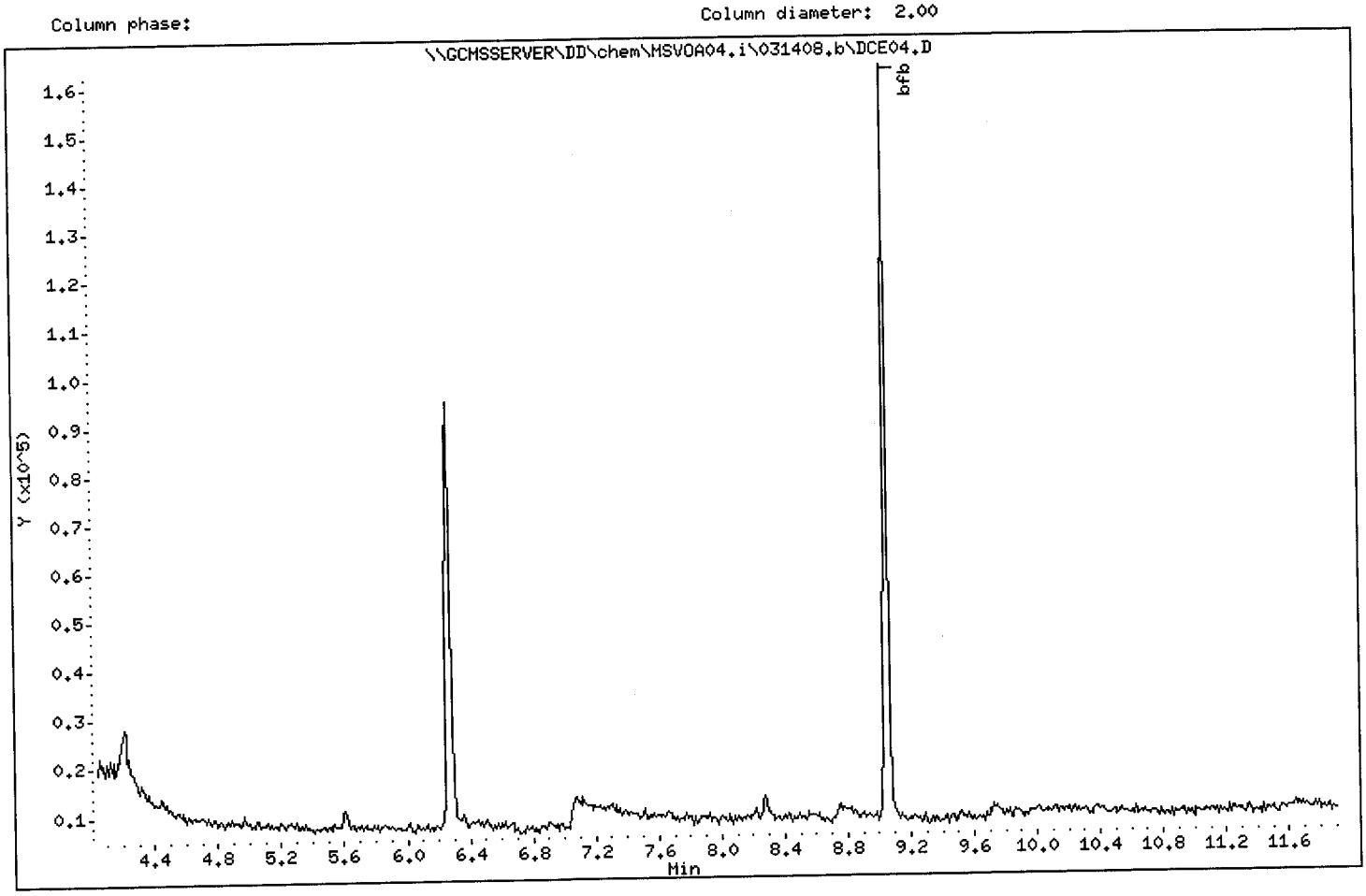
Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00



CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Run Name : BFB IDF : 1.0
Seqnum : 438109986002 File : dcg02 Time : 16-MAR-2008 09:52

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	10036	23.53	
75	30% - 60% of mass 95	23751	55.68	
95		42653		
96	5% - 9% of mass 95	2981	6.99	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	35392	82.98	
175	5% - 9% of mass 174	2619	7.40	
176	> 95% and < 101% of mass 174	34962	98.79	
177	5% - 9% of mass 176	2318	6.63	

Analyst: MJD Date: 03/17/08 Reviewer: LW Date: 03/18/08

438109986002

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\031608.b\DCG02.D

Date : 16-MAR-2008 09:52

Client ID: bfb tune std

Instrument: MSVOA04.i

Sample Info: BFB,S7916

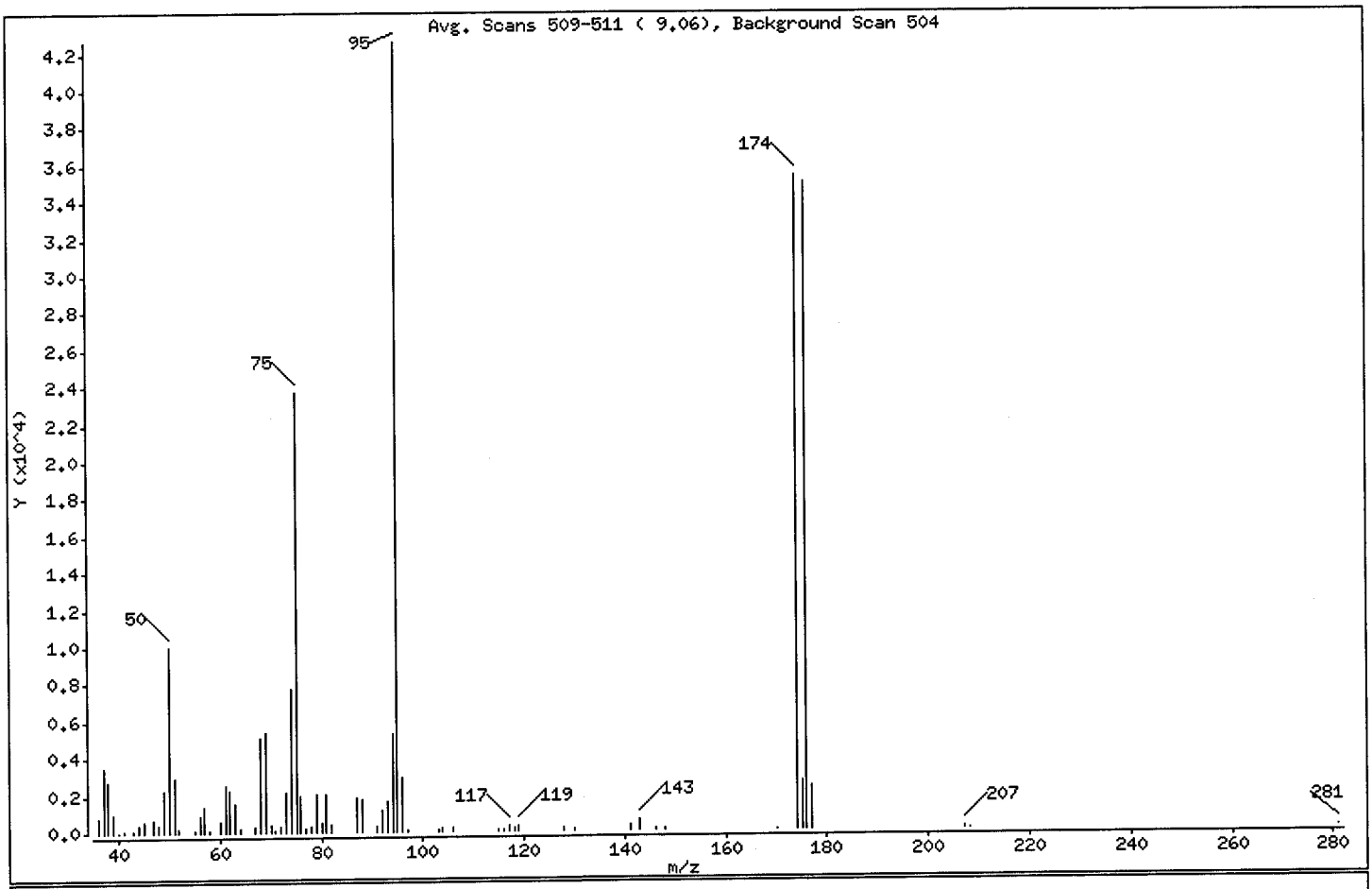
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.53
75	30.00 - 60.00% of mass 95	55.68
96	5.00 - 9.00% of mass 95	6.99
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	82.98
175	5.00 - 9.00% of mass 174	6.14 (7.40)
176	95.01 - 100.99% of mass 174	81.97 (98.79)
177	5.00 - 9.00% of mass 176	5.43 (6.63)

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\031608.b\DCG02.D

Date : 16-MAR-2008 09:52

Client ID: bfb tune std

Instrument: MSVOA04.i

Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

Data File: DCG02.D

Spectrum: Avg. Scans 509-511 (9.06), Background Scan 504

Location of Maximum: 95.00

Number of points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	796	58.00	52	79.00	2027	117.00	266
37.00	3495	60.00	619	80.00	535	118.00	183
38.00	2754	61.00	2577	81.00	2066	119.00	281
39.00	939	62.00	2277	82.00	410	128.00	201
40.00	37	63.00	1555	87.00	1858	130.00	141
41.00	59	64.00	219	88.00	1789	141.00	306
43.00	94	67.00	264	91.00	317	143.00	547
44.00	363	68.00	5058	92.00	1186	146.00	54
45.00	602	69.00	5433	93.00	1689	148.00	54
47.00	641	70.00	379	94.00	5275	170.00	28
48.00	401	71.00	55	95.00	42648	174.00	35392
49.00	2303	72.00	268	96.00	2981	175.00	2619
50.00	10036	73.00	2172	97.00	113	176.00	34960
51.00	2898	74.00	7777	103.00	107	177.00	2318
52.00	243	75.00	23744	104.00	223	207.00	76
55.00	130	76.00	1967	106.00	183	208.00	36
56.00	872	77.00	217	115.00	57	281.00	13
57.00	1344	78.00	257	116.00	131		

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\031608.b\DCG02.D

Date : 16-MAR-2008 09:52

Client ID: bfb tune std

Instrument: MSVOA04.i

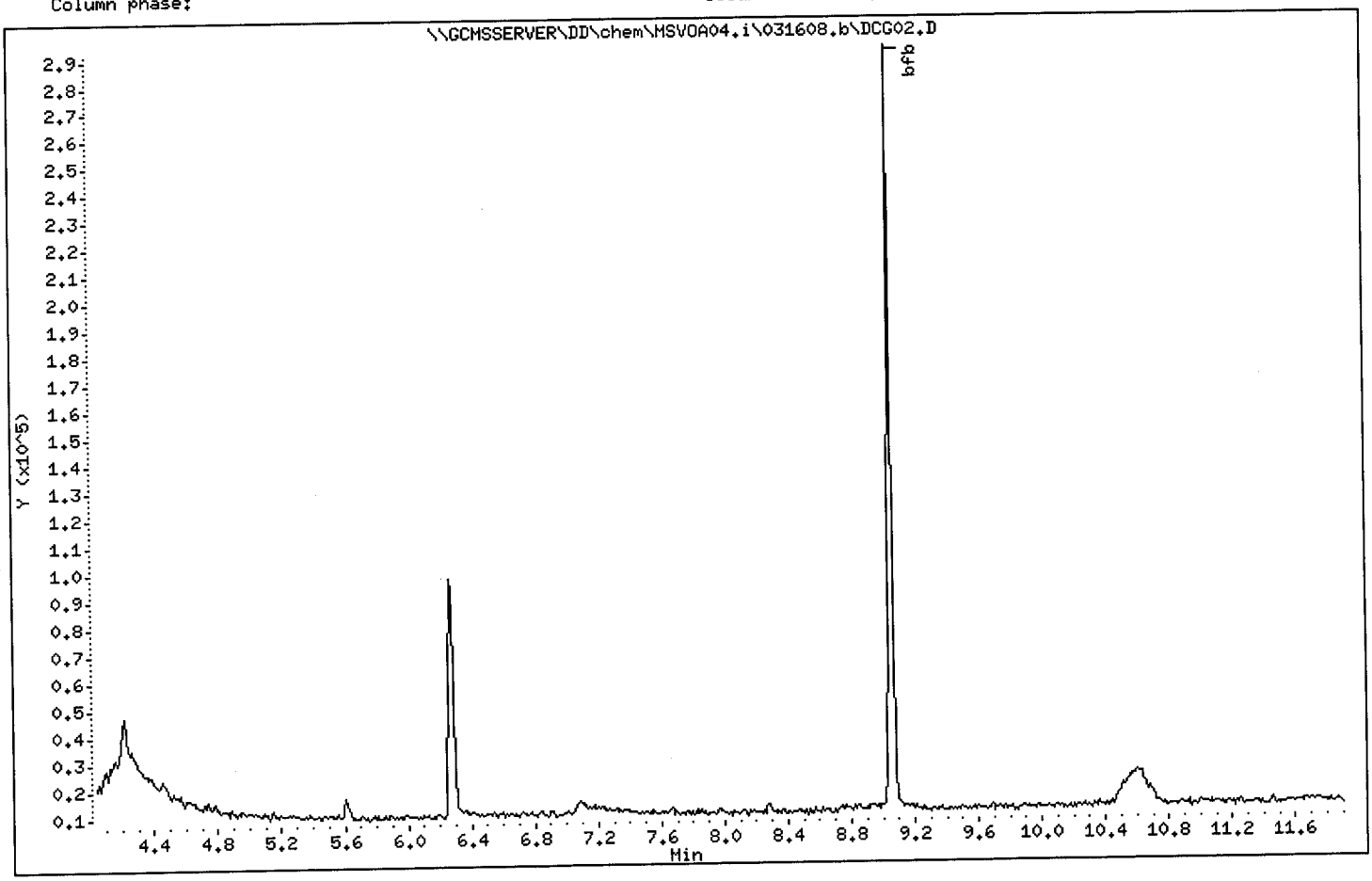
Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00



CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Run Name : BFB IDF : 1.0
Seqnum : 438117134003 File : dcl03 Time : 21-MAR-2008 08:56

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	4568	23.18	
75	30% - 60% of mass 95	10169	51.60	
95		19708		
96	5% - 9% of mass 95	1495	7.59	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	15539	78.85	
175	5% - 9% of mass 174	1183	7.61	
176	> 95% and < 101% of mass 174	15437	99.34	
177	5% - 9% of mass 176	1099	7.12	

Analyst: MJD Date: 03/21/08 Reviewer: ACM Date: 03/21/08

438117134003

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL03.D

Date : 21-MAR-2008 08:56

Client ID: bfb tune std

Instrument: MSVOA04.i

Sample Info: BFB,S7916

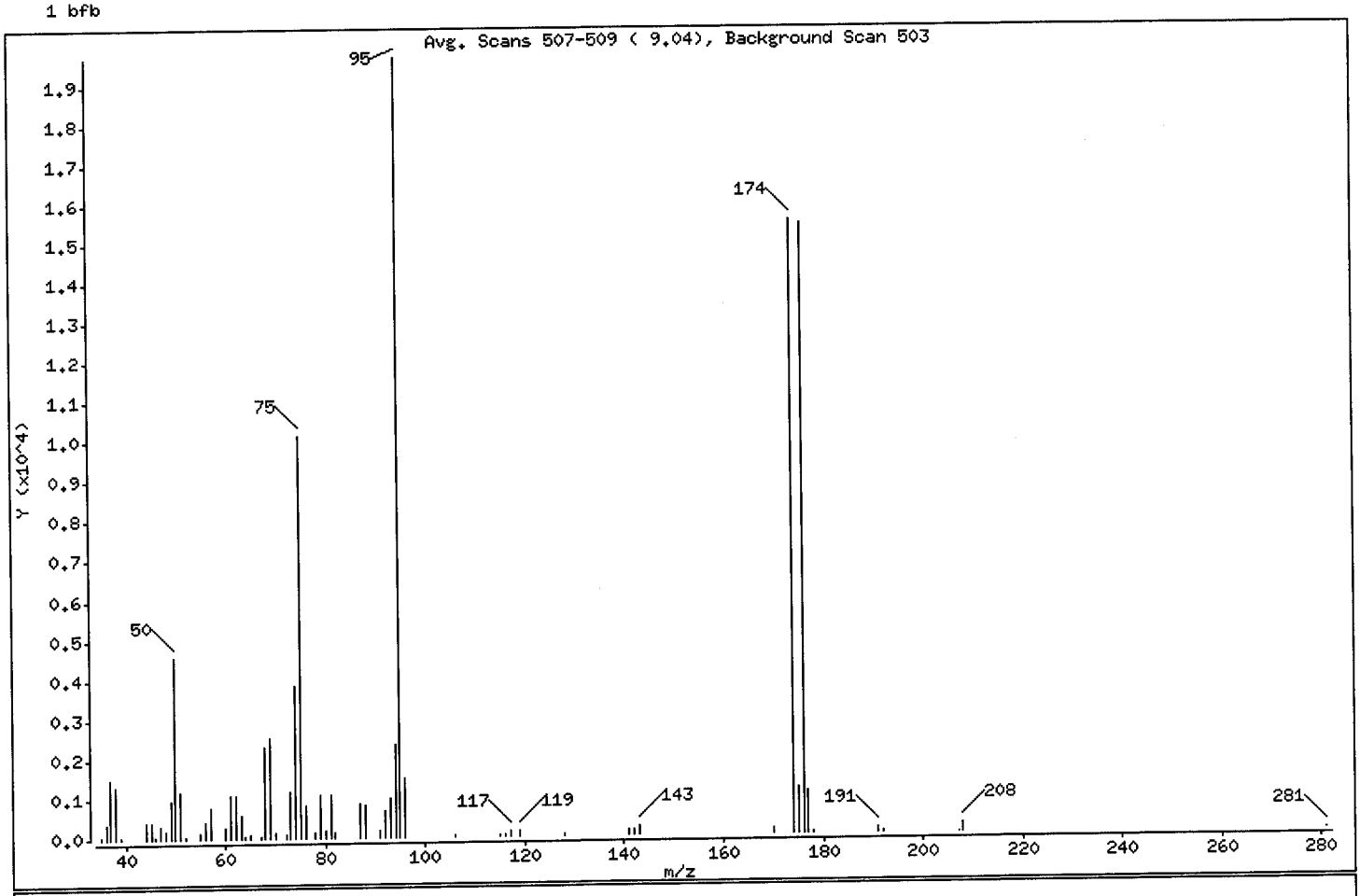
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.18
75	30.00 - 60.00% of mass 95	51.60
96	5.00 - 9.00% of mass 95	7.59
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	78.85
175	5.00 - 9.00% of mass 174	6.00 (7.61)
176	95.01 - 100.99% of mass 174	78.33 (99.34)
177	5.00 - 9.00% of mass 176	5.58 (7.12)

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL03.D

Date : 21-MAR-2008 08:56

Client ID: bfb tune std

Instrument: MSVOA04.i

Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

Data File: DCL03.D
Spectrum: Avg. Scans 507-509 (9.04), Background Scan 503
Location of Maximum: 95.00
Number of points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	65	60.00	289	80.00	195	141.00	158
36.00	357	61.00	1075	81.00	1078	142.00	137
37.00	1473	62.00	1078	82.00	121	143.00	214
38.00	1297	63.00	604	87.00	866	170.00	132
39.00	29	64.00	55	88.00	827	174.00	15539
44.00	404	65.00	106	91.00	161	175.00	1183
45.00	400	67.00	62	92.00	678	176.00	15437
46.00	53	68.00	2317	93.00	982	177.00	1099
47.00	326	69.00	2514	94.00	2373	178.00	56
48.00	197	70.00	145	95.00	19704	191.00	149
49.00	965	72.00	79	96.00	1495	192.00	54
50.00	4568	73.00	1158	106.00	59	207.00	12
51.00	1185	74.00	3861	115.00	50	208.00	242
52.00	63	75.00	10169	116.00	50	281.00	3
55.00	142	76.00	829	117.00	129		
56.00	408	78.00	135	119.00	150		
57.00	750	79.00	1075	128.00	53		

Data File: \\GCMSSERVER\DD\chem\MSVOA04.i\032108.b\DCL03.D

Date : 21-MAR-2008 08:56

Client ID: bfb tune std

Instrument: MSVOA04.i

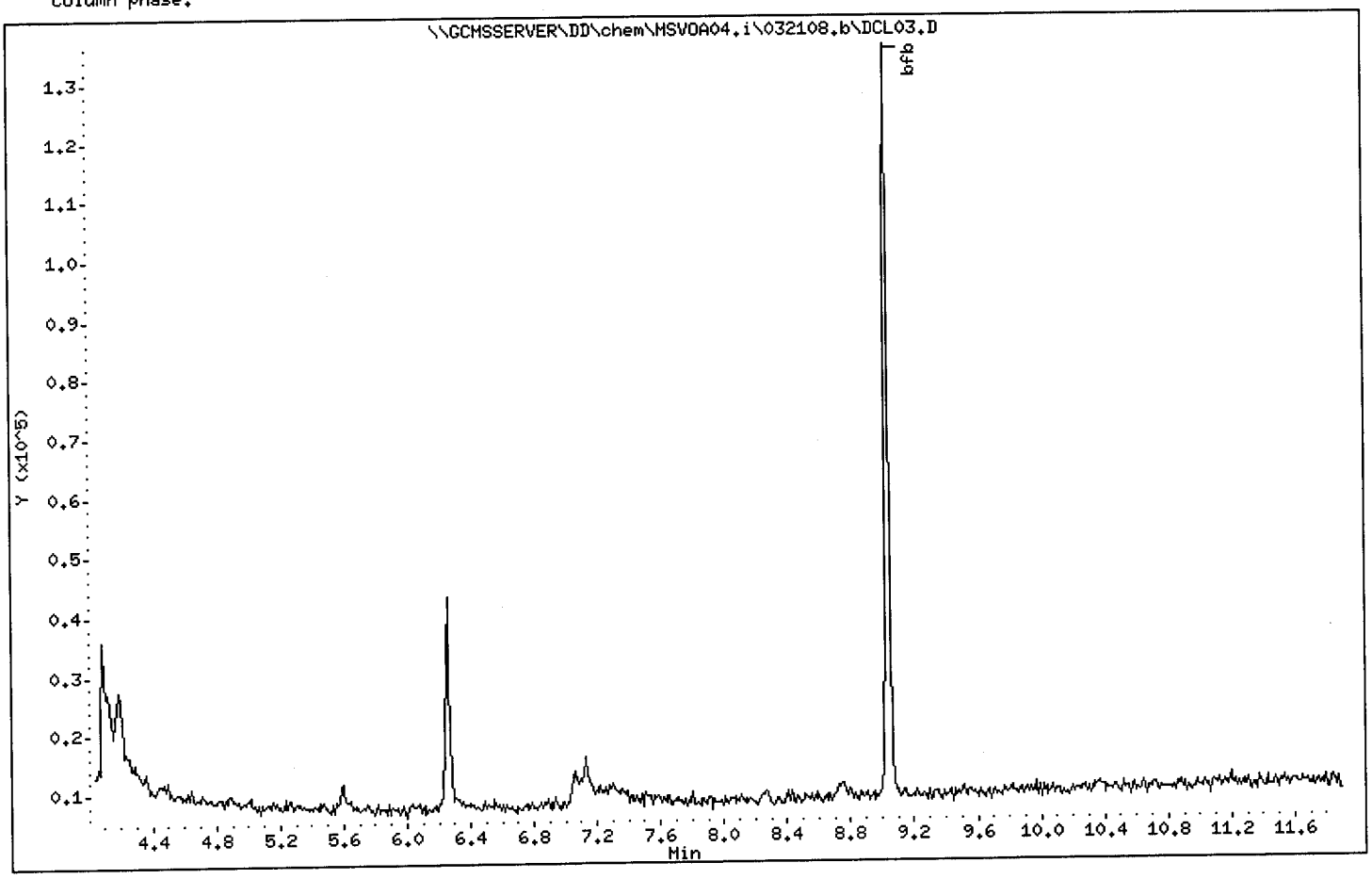
Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00



CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448110396004 File : ecg04 Time : 16-MAR-2008 17:22

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	8572	22.62	
75	30% - 60% of mass 95	19420	51.25	
95		37890		
96	5% - 9% of mass 95	2524	6.66	
173	< 2% of mass 174	59	0.18	
174	> 50% and < 100% of mass 95	32464	85.68	
175	5% - 9% of mass 174	2273	7.00	
176	> 95% and < 101% of mass 174	30896	95.17	
177	5% - 9% of mass 176	2333	7.55	

Analyst: BO Date: 03/17/08 Reviewer: LW Date: 03/18/08

448110396004

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\031608.b\ECG04.D

Date : 16-MAR-2008 17:22

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S7916

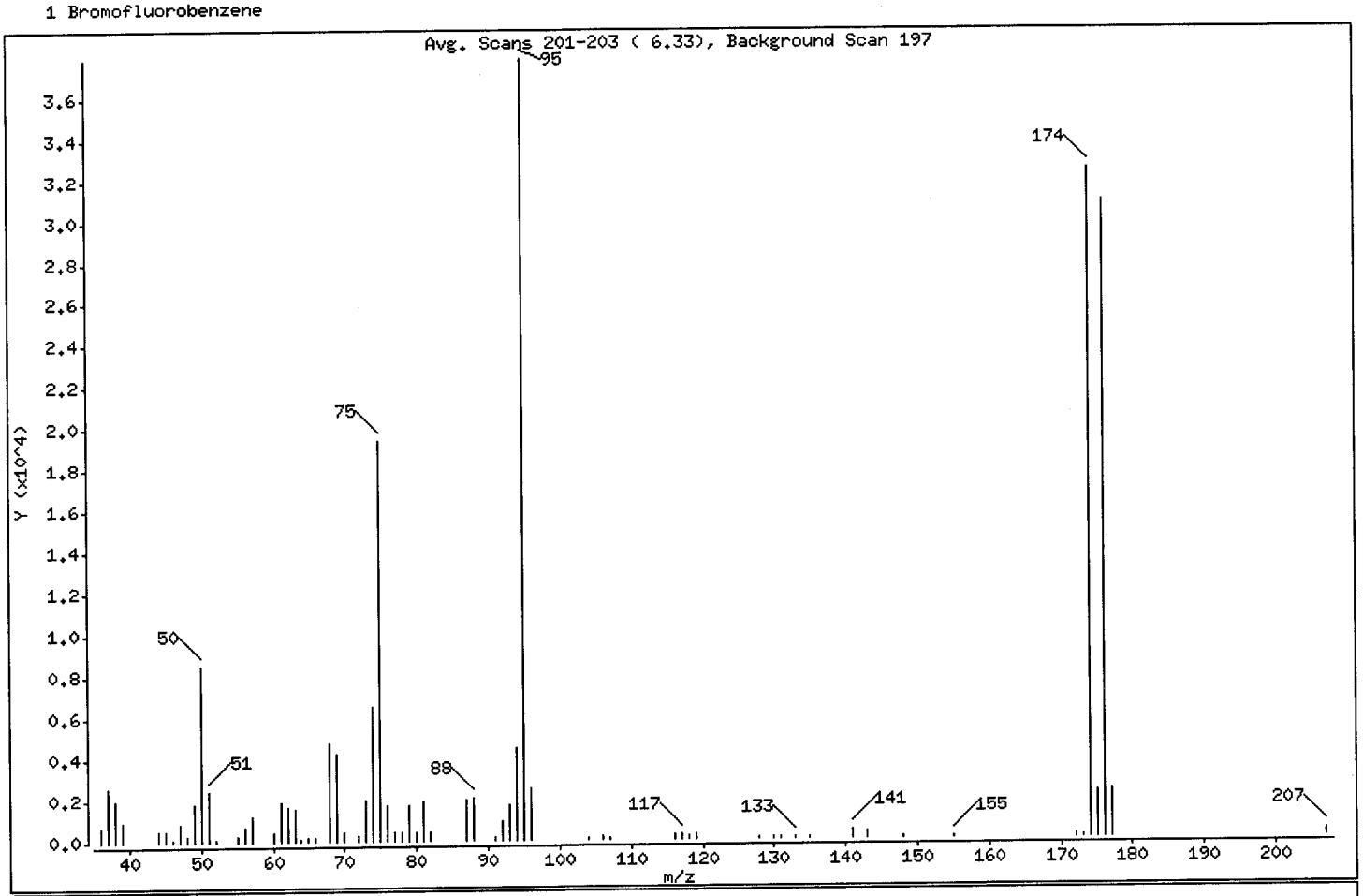
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.62
75	30.00 - 60.00% of mass 95	51.25
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.16 (0.18)
174	50.00 - 99.99% of mass 95	85.68
175	5.00 - 9.00% of mass 174	6.00 (7.00)
176	95.01 - 100.99% of mass 174	81.54 (95.17)
177	5.00 - 9.00% of mass 176	6.16 (7.55)

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\031608.b\ECG04.D

Date : 16-MAR-2008 17:22

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

Data File: ECG04.D

Spectrum: Avg. Scans 201-203 (6.33), Background Scan 197

Location of Maximum: 95.00

Number of points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	693	62.00	1637	82.00	467	131.00	59
37.00	2634	63.00	1527	87.00	1984	133.00	69
38.00	1977	64.00	69	88.00	2115	135.00	56
39.00	952	65.00	176	91.00	153	141.00	404
44.00	544	66.00	146	92.00	981	143.00	339
45.00	546	68.00	4751	93.00	1752	148.00	70
46.00	55	69.00	4311	94.00	4525	155.00	63
47.00	891	70.00	418	95.00	37888	172.00	177
48.00	283	72.00	262	96.00	2524	173.00	59
49.00	1794	73.00	1976	104.00	96	174.00	32464
50.00	8572	74.00	6509	106.00	164	175.00	2273
51.00	2473	75.00	19416	107.00	54	176.00	30896
52.00	50	76.00	1773	116.00	241	177.00	2333
55.00	258	77.00	421	117.00	247	207.00	354
56.00	666	78.00	411	118.00	141		
57.00	1256	79.00	1783	119.00	245		
60.00	425	80.00	442	128.00	59		
61.00	1959	81.00	1888	130.00	61		

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\031608.b\ECG04.D

Date : 16-MAR-2008 17:22

Client ID: bfb tune std

Instrument: MSVOA05.i

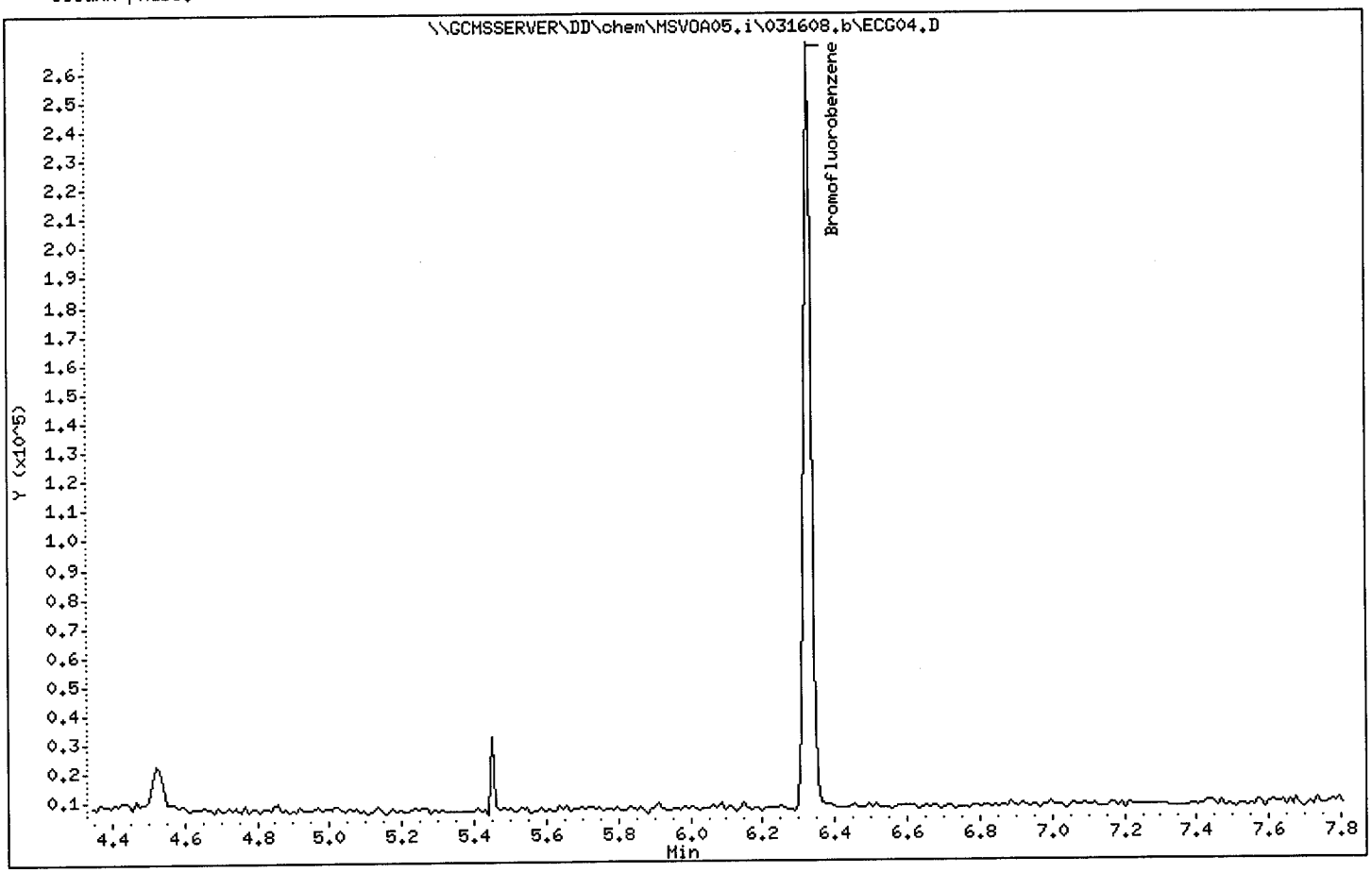
Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00



CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448111347002 File : ech02 Time : 17-MAR-2008 08:39

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	13445	23.43	
75	30% - 60% of mass 95	28730	50.07	
95		57384		
96	5% - 9% of mass 95	3863	6.73	
173	< 2% of mass 174	162	0.36	
174	> 50% and < 100% of mass 95	45301	78.94	
175	5% - 9% of mass 174	3186	7.03	
176	> 95% and < 101% of mass 174	43168	95.29	
177	5% - 9% of mass 176	2746	6.36	

Analyst: BO Date: 03/17/08 Reviewer: LW Date: 03/18/08

448111347002

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\031708.b\ECH02.D

Date : 17-MAR-2008 08:39

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S7916

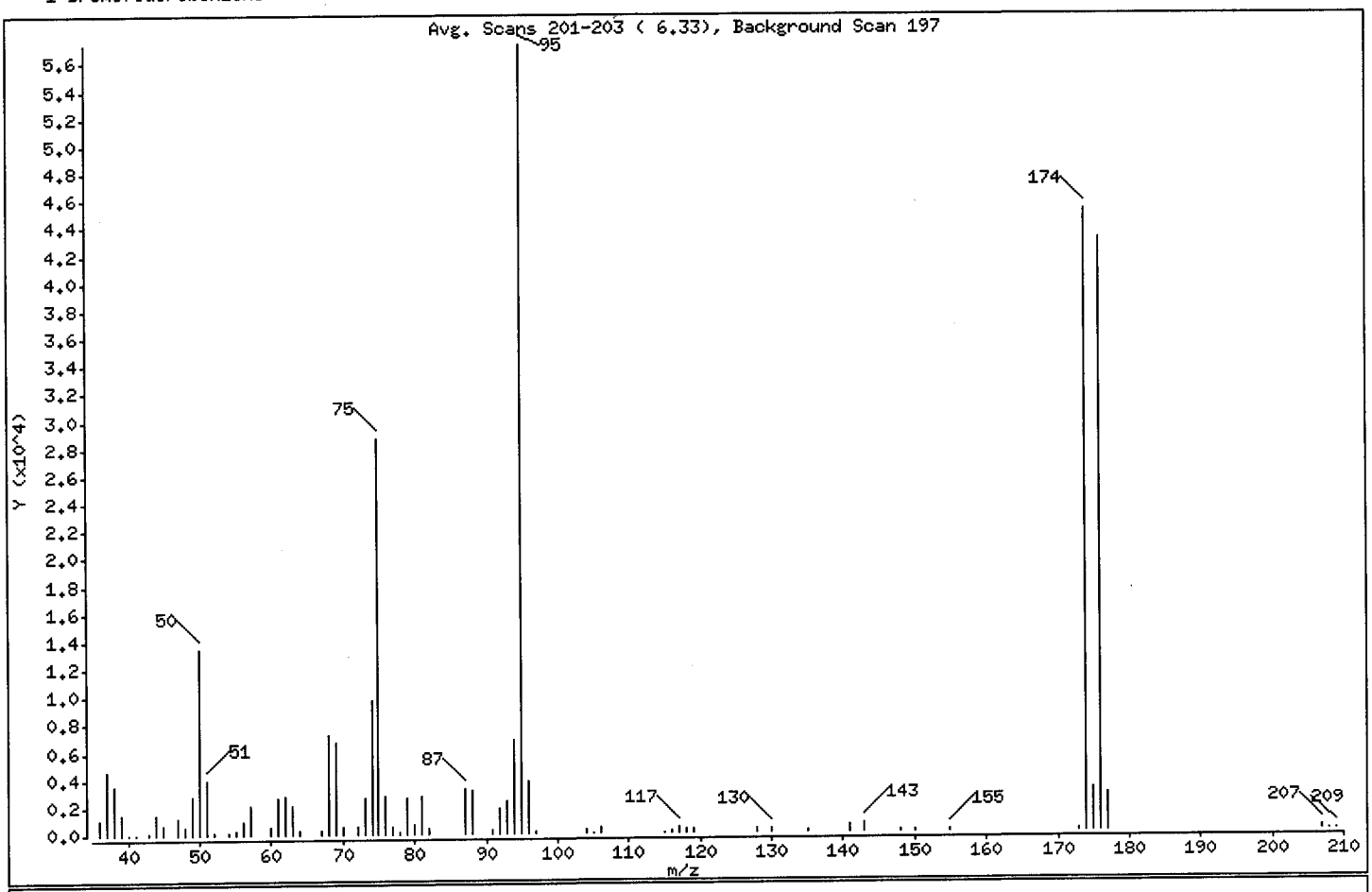
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.43
75	30.00 - 60.00% of mass 95	50.07
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.28 (0.36)
174	50.00 - 99.99% of mass 95	78.94
175	5.00 - 9.00% of mass 174	5.55 (7.03)
176	95.01 - 100.99% of mass 174	75.23 (95.29)
177	5.00 - 9.00% of mass 176	4.79 (6.36)

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\031708.b\ECH02.D

Date : 17-MAR-2008 08:39

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

Data File: ECH02.D

Spectrum: Avg. Scans 201-203 (6.33), Background Scan 197

Location of Maximum: 95.00

Number of points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1077	60.00	589	82.00	375	130.00	230
37.00	4590	61.00	2702	87.00	3270	135.00	75
38.00	3566	62.00	2799	88.00	3149	141.00	559
39.00	1466	63.00	2080	91.00	291	143.00	630
40.00	51	64.00	285	92.00	1910	148.00	72
41.00	65	67.00	299	93.00	2358	150.00	74
43.00	109	68.00	7211	94.00	6866	155.00	128
44.00	1388	69.00	6702	95.00	57384	173.00	162
45.00	708	70.00	483	96.00	3863	174.00	45296
47.00	1130	72.00	462	97.00	124	175.00	3186
48.00	507	73.00	2657	104.00	284	176.00	43168
49.00	2750	74.00	9809	105.00	62	177.00	2746
50.00	13445	75.00	28728	106.00	347	207.00	215
51.00	3931	76.00	2780	115.00	52	208.00	51
52.00	130	77.00	561	116.00	156	209.00	56
54.00	71	78.00	194	117.00	335		
55.00	268	79.00	2662	118.00	281		
56.00	948	80.00	667	119.00	297		
57.00	2166	81.00	2721	128.00	215		

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\031708.b\ECH02.D

Date : 17-MAR-2008 08:39

Client ID: bfb tune std

Instrument: MSVOA05.i

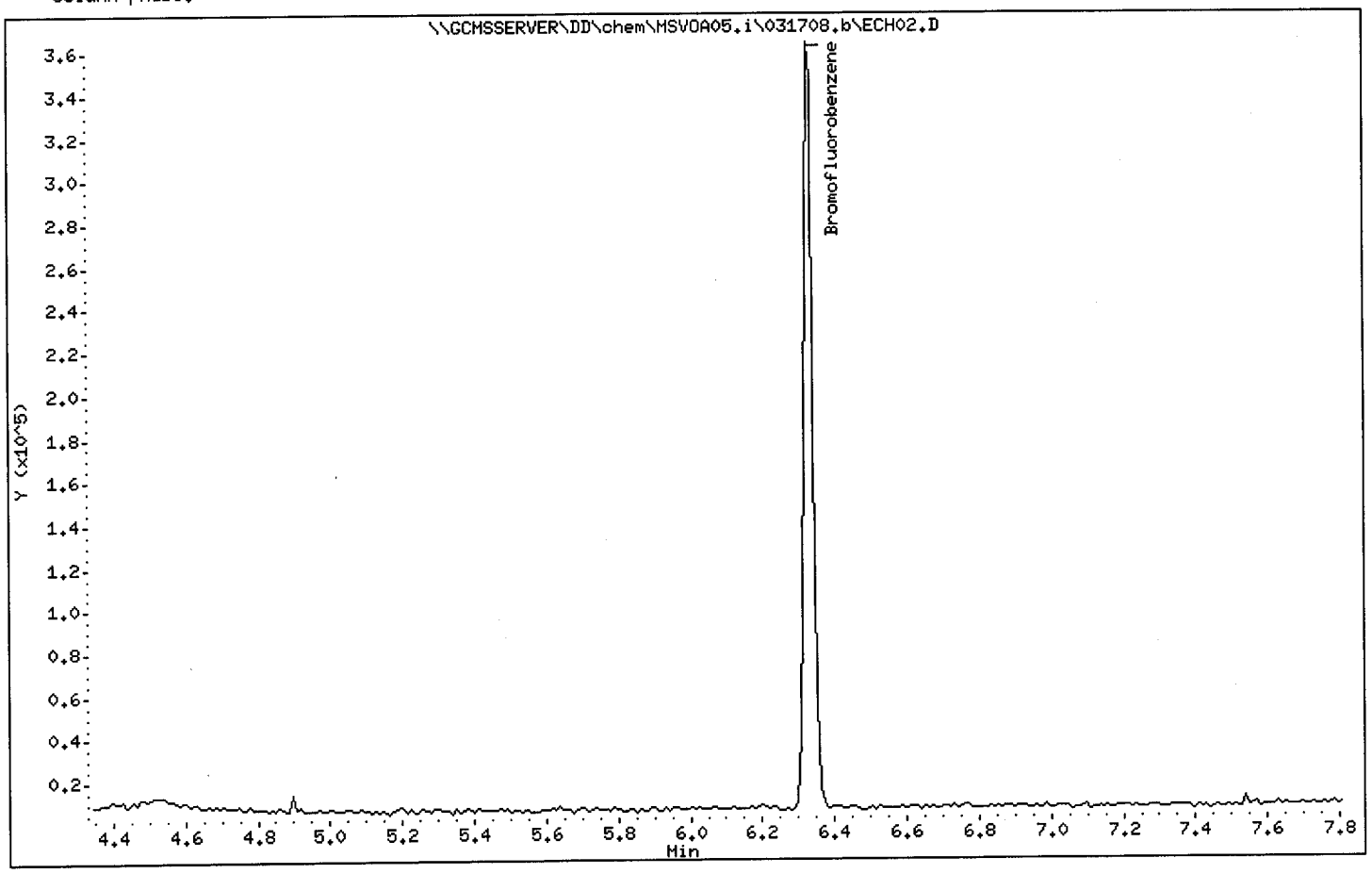
Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00



CURTIS & TOMPKINS BFB TUNE FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448115696002 File : eck02 Time : 20-MAR-2008 08:43

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	4010	20.17	
75	30% - 60% of mass 95	9874	49.68	
95		19877		
96	5% - 9% of mass 95	1116	5.61	
173	< 2% of mass 174	77	0.46	
174	> 50% and < 100% of mass 95	16862	84.83	
175	5% - 9% of mass 174	1185	7.03	
176	> 95% and < 101% of mass 174	16610	98.51	
177	5% - 9% of mass 176	1097	6.60	

Analyst: BO Date: 03/20/08 Reviewer: LW Date: 03/20/08

448115696002

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK02.D

Date : 20-MAR-2008 08:43

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S7916

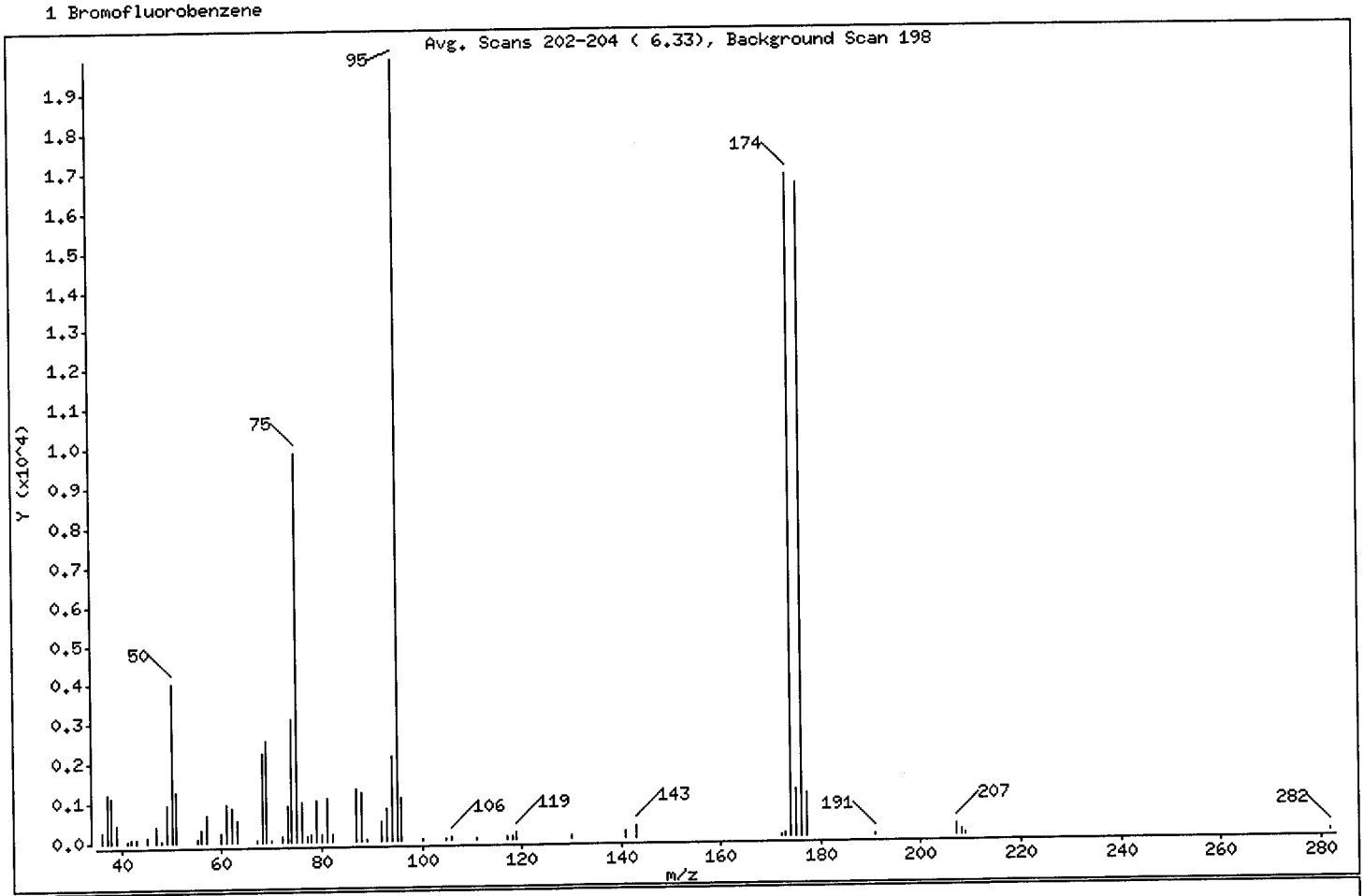
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.17
75	30.00 - 60.00% of mass 95	49.68
96	5.00 - 9.00% of mass 95	5.61
173	Less than 2.00% of mass 174	0.39 (0.46)
174	50.00 - 99.99% of mass 95	84.83
175	5.00 - 9.00% of mass 174	5.96 (7.03)
176	95.01 - 100.99% of mass 174	83.56 (98.51)
177	5.00 - 9.00% of mass 176	5.52 (6.60)

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK02.D

Date : 20-MAR-2008 08:43

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

Data File: ECK02.D

Spectrum: Avg. Scans 202-204 (6.33), Background Scan 198

Location of Maximum: 95.00

Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	269	61.00	939	82.00	183	141.00	194
37.00	1227	62.00	850	87.00	1334	143.00	302
38.00	1128	63.00	559	88.00	1240	172.00	59
39.00	474	67.00	54	89.00	64	173.00	77
41.00	59	68.00	2225	92.00	518	174.00	16856
42.00	70	69.00	2566	93.00	836	175.00	1185
43.00	90	70.00	61	94.00	2154	176.00	16608
45.00	123	72.00	123	95.00	19872	177.00	1097
47.00	391	73.00	902	96.00	1116	191.00	55
48.00	59	74.00	3105	100.00	59	207.00	277
49.00	947	75.00	9874	105.00	66	208.00	119
50.00	4010	76.00	984	106.00	77	209.00	63
51.00	1297	77.00	159	111.00	67	282.00	65
55.00	84	78.00	173	117.00	69		
56.00	331	79.00	1037	118.00	69		
57.00	678	80.00	164	119.00	199		
60.00	234	81.00	1103	130.00	109		

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032008.b\ECK02.D

Date : 20-MAR-2008 08:43

Client ID: bfb tune std

Instrument: MSVOA05.i

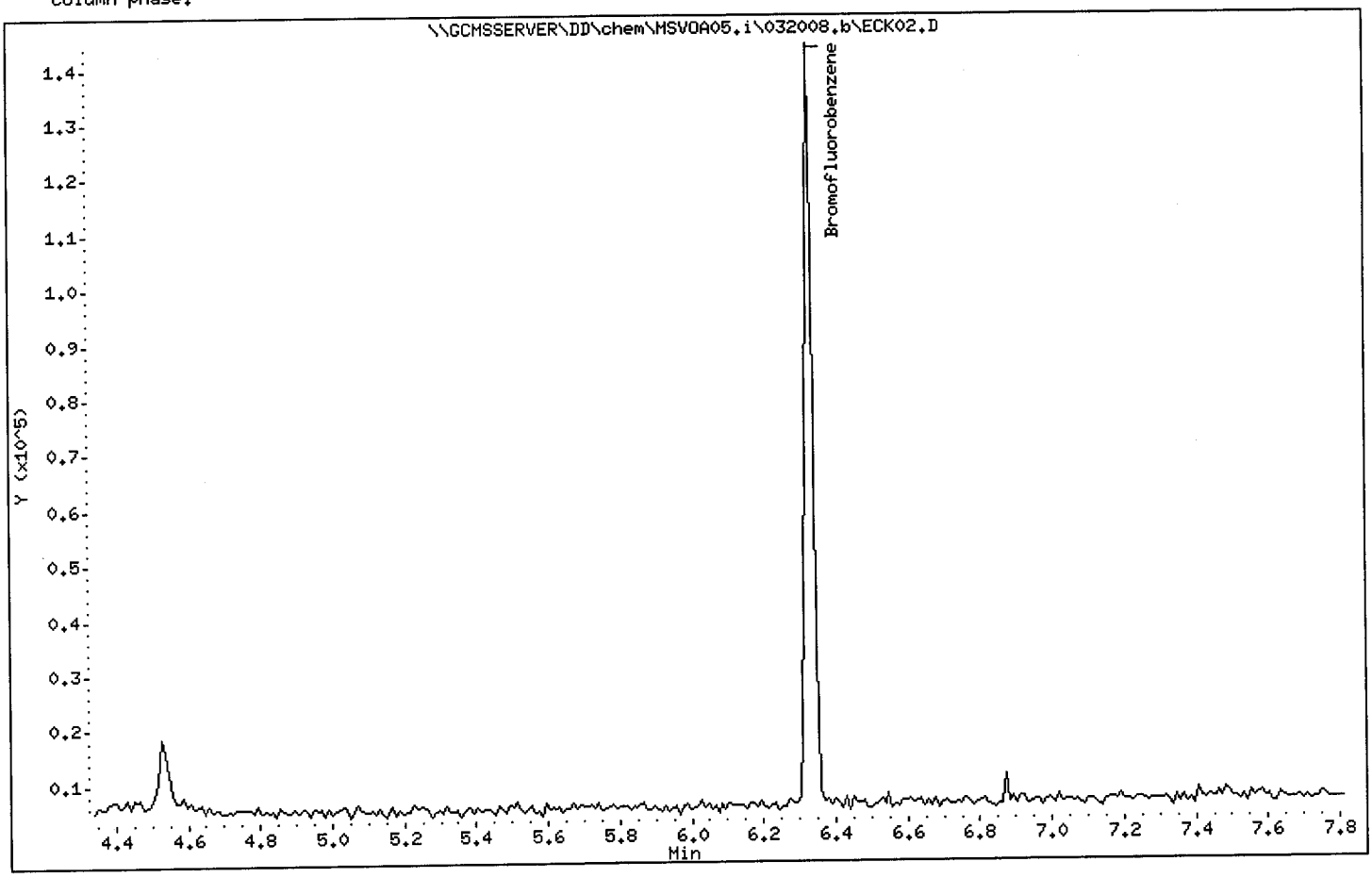
Sample Info: BFB,S7916

Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00



CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 MSVOA Soil: EPA 8260B

Inst : MSVOA04
Calnum : 438107113004
Units : ug/L

Name : 826GOX4S
Date : 14-MAR-2008 14:57
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	dce08	438107113008	2.5PPB	14-MAR-2008 14:57	S8668 (200000X), S8400 (200000X), S8549 (5000X)
L2	dce09	438107113009	5PPB	14-MAR-2008 15:31	S8668 (100000X), S8400 (100000X), S8549 (5000X)
L3	dce10	438107113010	10PPB	14-MAR-2008 16:05	S8668 (50000X), S8400 (50000X), S8549 (5000X)
L4	dce11	438107113011	20PPB	14-MAR-2008 16:38	S8668 (25000X), S8400 (25000X), S8549 (5000X)
L5	dce12	438107113012	50PPB	14-MAR-2008 17:12	S8668 (10000X), S8400 (10000X), S8549 (5000X)
L6	dce13	438107113013	60PPB	14-MAR-2008 17:46	S8668 (8333X), S8400 (8333X), S8549 (5000X)
L7	dce14	438107113014	75PPB	14-MAR-2008 18:19	S8668 (6667X), S8400 (6667X), S8549 (5000X)
L8	dce15	438107113015	100PPB	14-MAR-2008 18:54	S8668 (5000X), S8400 (5000X), S8549 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.7905m	1.3121	1.4096	1.3547	1.2493	1.2292	1.2779	LINR	-0.1812	0.78754		1.2319	0.997	15	0.05	0.99	
Chloromethane		0.6707	1.1373	1.1288	1.0951	1.0373	1.0307	1.0114	LINR	-0.8842	0.98031		1.0159	0.997	15	0.10	0.99	
Vinyl Chloride	1.0516	0.6316	1.0694	1.0839	1.0323	0.9674	0.9686	0.9418	AVRG		1.03270		0.9683	15	15	0.05	0.99	
Bromomethane		0.3931	0.7331	0.7463	0.7091	0.7047	0.7064	0.6813	LINR	-0.1955	1.44063		0.6677	0.998	15	0.05	0.99	
Chloroethane		0.3734	0.5697	0.5551	0.5370	0.5070	0.5173	0.5039	AVRG		1.96447		0.5090	13	15	0.05	0.99	
Trichlorofluoromethane		0.7119	1.2064	1.2216	1.1884	1.0943	1.0974	1.1124	LINR	-0.4436	0.90081		1.0904	0.997	15	0.05	0.99	
Acetone			0.3384	0.4230	0.3579	0.3549	0.3539	0.3355	AVRG		2.77308		0.3606	9	15	0.05	0.99	
Freon 113		0.7367	0.6555	0.7557	0.7734	0.7312	0.7462	0.7409	AVRG		1.36199		0.7342	5	15	0.05	0.99	
1,1-Dichloroethene		0.6588	0.6377	0.6387	0.6387	0.5889	0.6183	0.5874	AVRG		1.60240		0.6241	4	15	0.05	0.99	
Methylene Chloride			0.8533	0.7926	0.7524	0.7510	0.7399	0.7243	AVRG		1.30054		0.7689	6	15	0.05	0.99	
Carbon Disulfide		2.3254	2.2757	2.3112	2.2725	2.2456	2.1986	2.1126	AVRG		0.44468		2.2488	3	15	0.05	0.99	
MTBE		1.8029	1.8783	1.9736	1.9360	1.9490	1.9245	1.8353	AVRG		0.52633		1.9000	3	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6659	0.6319	0.6307	0.6300	0.6281	0.6371	0.6200	AVRG		1.57529		0.6348	2	15	0.05	0.99	
Vinyl Acetate			1.4824	1.6765	1.6526	1.6369	1.6448	1.5465	AVRG		0.62243		1.6066	5	15	0.05	0.99	
1,1-Dichloroethane		1.2960	1.3083	1.2785	1.2515	1.2316	1.2122	1.1597	AVRG		0.80111		1.2483	4	15	0.10	0.99	
2-Butanone			0.4177	0.4849	0.4404	0.4304	0.4324	0.3959	AVRG		2.30608		0.4336	7	15	0.05	0.99	
2,2-Dichloropropane		0.9572	0.9510	0.9997	1.0164	0.9958	0.9658	0.9579	AVRG		1.02282		0.9777	3	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7001	0.7102	0.7042	0.6807	0.6969	0.6858	0.6567	AVRG		1.44791		0.6907	3	15	0.05	0.99	
Chloroform		1.3293	1.3172	1.2881	1.2512	1.2259	1.2111	1.1683	AVRG		0.79625		1.2559	5	15	0.05	0.99	
Bromochloromethane		0.4016	0.3932	0.3935	0.3948	0.3949	0.3881	0.3793	AVRG		2.54966		0.3922	2	15	0.05	0.99	
1,1,1-Trichloroethane		0.9285	0.9268	0.9669	1.0046	0.9868	0.9917	0.9676	AVRG		1.03352		0.9676	3	15	0.05	0.99	
1,1-Dichloropropene		0.6070	0.5798	0.5952	0.6095	0.6005	0.5929	0.5714	AVRG		1.68420		0.5938	2	15	0.05	0.99	
Carbon Tetrachloride		0.3936	0.4187	0.4817	0.5394	0.5217	0.5278	0.5310	AVRG		2.05040		0.4877	12	15	0.05	0.99	
1,2-Dichloroethane		0.6946	0.7055	0.6884	0.6622	0.6636	0.6429	0.6298	AVRG		1.49353		0.6696	4	15	0.05	0.99	
Benzene		1.6620	1.5914	1.6025	1.5815	1.5704	1.5376	1.4796	AVRG		0.63493		1.5750	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4435	0.4473	0.4386	0.4503	0.4440	0.4345	0.4300	AVRG		2.26668		0.4412	2	15	0.05	0.99	
1,2-Dichloropropane		0.4858	0.4847	0.4670	0.4529	0.4556	0.4478	0.4270	AVRG		2.17332		0.4601	5	15	0.05	0.99	
Bromodichloromethane		0.6496	0.6487	0.6634	0.6644	0.6697	0.6472	0.6279	AVRG		1.53147		0.6530	2	15	0.05	0.99	
Dibromomethane		0.3398	0.3443	0.3476	0.3368	0.3356	0.3279	0.3192	AVRG		2.97702		0.3359	3	15	0.05	0.99	
4-Methyl-2-Pentanone			0.6016	0.6616	0.6178	0.6145	0.6123	0.5732	AVRG		1.62999		0.6135	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6794	0.6851	0.6942	0.6923	0.6821	0.6744	0.6465	AVRG		1.47245		0.6791	2	15	0.05	0.99	
Toluene		0.9670	0.9670	0.9369	0.9299	0.9244	0.9114	0.8848	AVRG		1.07338		0.9316	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6193	0.6437	0.6631	0.6694	0.6862	0.6650	0.6402	AVRG		1.52608		0.6553	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.2004	0.2189	0.2206	0.2137	0.2166	0.2149	0.2066	AVRG		4.69278		0.2131	3	15	0.05	0.99	
2-Hexanone			0.5081	0.6022	0.5239	0.5049	0.5055	0.4707	AVRG		1.92599		0.5192	9	15	0.05	0.99	
1,3-Dichloropropane		0.7330	0.7728	0.7957	0.7921	0.7900	0.7840	0.7595	AVRG		1.28982		0.7753	3	15	0.05	0.99	
Tetrachloroethene		0.5260	0.4972	0.5213	0.5178	0.5215	0.5298	0.5247	AVRG		1.92400		0.5197	2	15	0.05	0.99	
Dibromochloromethane		0.4990	0.5359	0.5752	0.5816	0.5903	0.6023	0.5886	AVRG		1.76196		0.5675	6	15	0.05	0.99	
1,2-Dibromoethane		0.4121	0.4056	0.4284	0.4119	0.4191	0.4197	0.4034	AVRG		2.41365		0.4143	2	15	0.05	0.99	
Chlorobenzene		1.1747	1.1411	1.1315	1.1192	1.1163	1.1113	1.0825	AVRG		0.88871		1.1252	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3885	0.4110	0.4280	0.4358	0.4416	0.4453	0.4440	AVRG		2.33785		0.4277	5	15	0.05	0.99	
Ethylbenzene		2.1412	2.0552	2.0700	1.9692	1.9273	1.8722	1.8101	AVRG		0.50559		1.9779	6	15	0.05	0.99	
m,p-Xylenes	0.7778	0.7622	0.7321	0.7300	0.7280	0.7187	0.7140	0.6983	AVRG		1.36494		0.7326	4	15	0.05	0.99	
o-Xylene		0.7626	0.7522	0.7544	0.7557	0.7434	0.7413	0.7278	AVRG		1.33652		0.7482	2	15	0.05	0.99	
Styrene		1.3527	1.3334	1.3092	1.2711	1.2528	1.2344	1.2040	AVRG		0.78146		1.2797	4	15	0.05	0.99	
Bromoform		0.3488	0.3550	0.4047	0.4143	0.4393	0.4399	0.4343	AVRG		2.46803		0.4052	10	15	0.10	0.99	
Isopropylbenzene		3.7242	3.4998	3.6426	3.5227	3.3891	3.2969	3.2323	AVRG		0.28797		3.4725	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.1014	1.0818	1.2140	1.1952	1.1834	1.1739	1.1286	AVRG		0.86651		1.1540	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.9864	1.0018	1.0704	0.9788	1.0001	0.9777	0.9336	AVRG		1.00735		0.9927	4	15	0.05	0.99	
Propylbenzene		4.7507	4.4215	4.5166	4.3303	4.1369	3.9400	3.7981	AVRG		0.23416		4.2706	8	15	0.05	0.99	
Bromobenzene		1.0344	0.9929	1.0241	1.0149	1.0157	1.0007	0.9955	AVRG		0.98894		1.0112	2	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.0023	2.9256	2.9350	2.7041	2.7816	2.6553	2.6041	AVRG		0.35700		2.8011	6	15	0.05	0.99	
2-Chlorotoluene		3.1753	2.9780	2.9975	2.7980	2.8261	2.7179	2.6497	AVRG		0.34752		2.8775	6	15	0.05	0.99	
4-Chlorotoluene		2.8863	2.7889	2.8201	2.7113	2.6903	2.5964	2.5306	AVRG		0.36796		2.7177	5	15	0.05	0.99	
tert-Butylbenzene		2.5558	2.4219	2.5561	2.5514	2.5061	2.4172	2.4104	AVRG		0.40186		2.4884	3	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.0333	2.9714	2.9933	2.7981	2.8469	2.7282	2.6586	AVRG		0.34948		2.8614	5	15	0.05	0.99	
sec-Butylbenzene		3.9502	3.7193	3.9935	3.7870	3.7726	3.6279	3.5396	AVRG		0.26525		3.7700	4	15	0.05	0.99	
para-Isopropyl Toluene		3.3563	3.1132	3.3195	3.0145	3.1887	3.0784	2.9943	AVRG		0.31725		3.1521	5	15	0.05	0.99	
1,3-Dichlorobenzene		1.9033	1.8886	1.9016	1.8214	1.8401	1.7849	1.7582	AVRG		0.54271		1.8426	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.8576	1.8158	1.8681	1.8592	1.8761	1.8060	1.7749	AVRG		0.54442		1.8368	2	15	0.05	0.99	
n-Butylbenzene		3.3990	3.2669	3.4628	3.3579	3.2117	3.0959	2.9969	AVRG		0.30714		3.2559	5	15	0.05	0.99	
1,2-Dichlorobenzene		1.7950	1.7611	1.8007	1.7709	1.7799	1.7108	1.6950	AVRG		0.56849		1.7591	2	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2615	0.2518	0.2962	0.2768	0.2840	0.2793	0.2694	AVRG		3.64765		0.2741	5	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.2688	1.2638	1.3011	1.3175	1.3131	1.2709	1.2550	AVRG		0.77863		1.2843	2	15	0.05	0.99	
Hexachlorobutadiene		0.7864	0.6811	0.7426	0.7696	0.7514	0.7349	0.7554	AVRG		1.34063		0.7459	4	15	0.05	0.99	
Naphthalene		2.7656	2.8036	3.0829	3.0267	3.0643	3.0062	2.9100	AVRG		0.33883		2.9513	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		1.1114	1.1463	1.2189	1.2172	1.2412	1.1981	1.1831	AVRG		0.84174		1.1880	4	15	0.05	0.99	
Dibromofluoromethane	0.5506	0.5641	0.5724	0.5812	0.5741	0.5686	0.5764	0.5656	AVRG		1.75711		0.5691	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.4653	0.4675	0.4667	0.4635	0.4390	0.4227	0.4124	0.3990	AVRG		2.26237		0.4420	6	15	0.05	0.99	
Trifluorotoluene		0.7135	0.6619	0.6863	0.7075	0.6887	0.6835	0.6774	AVRG		1.45264		0.6884	3	15	0.05	0.99	
Toluene-d8	1.0823	1.0712	1.0632	1.0453	1.0238	1.0283	1.0024	1.0006	AVRG		0.96188		1.0396	3	15	0.05	0.99	
Bromofluorobenzene	0.9779	0.9748	0.9501	0.9376	0.9411	0.9121	0.9116	0.9140	AVRG		1.06395		0.9399	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12			5.000	-41	10.00	2	20.00	10	50.00	6	60.00	-2	75.00	-3	100.0	0
Chloromethane			5.000	-52	10.00	3	20.00	6	50.00	6	60.00	0	75.00	0	100.0	-2
Vinyl Chloride	2.500	9	5.000	-35	10.00	10	20.00	12	50.00	7	60.00	0	75.00	0	100.0	-3
Bromomethane			5.000	-47	10.00	4	20.00	7	50.00	2	60.00	1	75.00	2	100.0	-2
Chloroethane			5.000	-27	10.00	12	20.00	9	50.00	5	60.00	0	75.00	2	100.0	-1
Trichlorofluoromethane			5.000	-45	10.00	4	20.00	8	50.00	6	60.00	-2	75.00	-2	100.0	0
Acetone					10.00	-6	20.00	17	50.00	-1	60.00	-2	75.00	-2	100.0	-7
Freon 113			5.000	0	10.00	-11	20.00	3	50.00	5	60.00	0	75.00	2	100.0	1
1,1-Dichloroethene			5.000	6	10.00	2	20.00	2	50.00	2	60.00	-6	75.00	-1	100.0	-6
Methylene Chloride					10.00	11	20.00	3	50.00	-2	60.00	-2	75.00	-4	100.0	-6
Carbon Disulfide			5.000	3	10.00	1	20.00	3	50.00	1	60.00	0	75.00	-2	100.0	-6
MTBE			5.000	-5	10.00	-1	20.00	4	50.00	2	60.00	3	75.00	1	100.0	-3
trans-1,2-Dichloroethene			5.000	5	10.00	0	20.00	-1	50.00	-1	60.00	-1	75.00	0	100.0	-2
Vinyl Acetate					10.00	-8	20.00	4	50.00	3	60.00	2	75.00	2	100.0	-4
1,1-Dichloroethane			5.000	4	10.00	5	20.00	2	50.00	0	60.00	-1	75.00	-3	100.0	-7
2-Butanone					10.00	-4	20.00	12	50.00	2	60.00	-1	75.00	0	100.0	-9
2,2-Dichloropropane			5.000	-2	10.00	-3	20.00	2	50.00	4	60.00	2	75.00	-1	100.0	-2
cis-1,2-Dichloroethene			5.000	1	10.00	3	20.00	2	50.00	-1	60.00	1	75.00	-1	100.0	-5
Chloroform			5.000	6	10.00	5	20.00	3	50.00	0	60.00	-2	75.00	-4	100.0	-7
Bromochloromethane			5.000	2	10.00	0	20.00	0	50.00	1	60.00	1	75.00	-1	100.0	-3
1,1,1-Trichloroethane			5.000	-4	10.00	-4	20.00	0	50.00	4	60.00	2	75.00	2	100.0	0
1,1-Dichloropropene			5.000	2	10.00	-2	20.00	0	50.00	3	60.00	1	75.00	0	100.0	-4
Carbon Tetrachloride			5.000	-19	10.00	-14	20.00	-1	50.00	11	60.00	7	75.00	8	100.0	9
1,2-Dichloroethane			5.000	4	10.00	5	20.00	3	50.00	-1	60.00	-1	75.00	-4	100.0	-6
Benzene			5.000	6	10.00	1	20.00	2	50.00	0	60.00	0	75.00	-2	100.0	-6
Trichloroethene			5.000	1	10.00	1	20.00	-1	50.00	2	60.00	1	75.00	-2	100.0	-3
1,2-Dichloropropane			5.000	6	10.00	5	20.00	1	50.00	-2	60.00	-1	75.00	-3	100.0	-7
Bromodichloromethane			5.000	-1	10.00	-1	20.00	2	50.00	2	60.00	3	75.00	-1	100.0	-4
Dibromomethane			5.000	1	10.00	2	20.00	3	50.00	0	60.00	0	75.00	-2	100.0	-5
4-Methyl-2-Pentanone					10.00	-2	20.00	8	50.00	1	60.00	0	75.00	0	100.0	-7
cis-1,3-Dichloropropene			5.000	0	10.00	1	20.00	2	50.00	2	60.00	0	75.00	-1	100.0	-5
Toluene			5.000	4	10.00	4	20.00	1	50.00	0	60.00	-1	75.00	-2	100.0	-5
trans-1,3-Dichloropropene			5.000	-5	10.00	-2	20.00	1	50.00	2	60.00	5	75.00	1	100.0	-2
1,1,2-Trichloroethane			5.000	-6	10.00	3	20.00	4	50.00	0	60.00	2	75.00	1	100.0	-3
2-Hexanone					10.00	-2	20.00	16	50.00	1	60.00	-3	75.00	-3	100.0	-9
1,3-Dichloropropane			5.000	-5	10.00	0	20.00	3	50.00	2	60.00	2	75.00	1	100.0	-2
Tetrachloroethene			5.000	1	10.00	-4	20.00	0	50.00	0	60.00	0	75.00	2	100.0	1
Dibromochloromethane			5.000	-12	10.00	-6	20.00	1	50.00	2	60.00	4	75.00	6	100.0	4
1,2-Dibromoethane			5.000	-1	10.00	-2	20.00	3	50.00	-1	60.00	1	75.00	1	100.0	-3
Chlorobenzene			5.000	4	10.00	1	20.00	1	50.00	-1	60.00	-1	75.00	-1	100.0	-4
1,1,1,2-Tetrachloroethane			5.000	-9	10.00	-4	20.00	0	50.00	2	60.00	3	75.00	4	100.0	4
Ethylbenzene			5.000	8	10.00	4	20.00	5	50.00	0	60.00	-3	75.00	-5	100.0	-8

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	6	10.00	4	20.00	0	40.00	0	100.0	-1	120.0	-2	150.0	-3	200.0	-5
o-Xylene			5.000	2	10.00	1	20.00	1	50.00	1	60.00	-1	75.00	-1	100.0	-3
Styrene			5.000	6	10.00	4	20.00	2	50.00	-1	60.00	-2	75.00	-4	100.0	-6
Bromoform			5.000	-14	10.00	-12	20.00	0	50.00	2	60.00	8	75.00	9	100.0	7
Isopropylbenzene			5.000	7	10.00	1	20.00	5	50.00	1	60.00	-2	75.00	-5	100.0	-7
1,1,2,2-Tetrachloroethane			5.000	-5	10.00	-6	20.00	5	50.00	4	60.00	3	75.00	2	100.0	-2
1,2,3-Trichloropropane			5.000	-1	10.00	1	20.00	8	50.00	-1	60.00	1	75.00	-2	100.0	-6
Propylbenzene			5.000	11	10.00	4	20.00	6	50.00	1	60.00	-3	75.00	-8	100.0	-11
Bromobenzene			5.000	2	10.00	-2	20.00	1	50.00	0	60.00	0	75.00	-1	100.0	-2
1,3,5-Trimethylbenzene			5.000	7	10.00	4	20.00	5	50.00	-3	60.00	-1	75.00	-5	100.0	-7
2-Chlorotoluene			5.000	10	10.00	3	20.00	4	50.00	-3	60.00	-2	75.00	-6	100.0	-8
4-Chlorotoluene			5.000	6	10.00	3	20.00	4	50.00	0	60.00	-1	75.00	-4	100.0	-7
tert-Butylbenzene			5.000	3	10.00	-3	20.00	3	50.00	3	60.00	1	75.00	-3	100.0	-3
1,2,4-Trimethylbenzene			5.000	6	10.00	4	20.00	5	50.00	-2	60.00	-1	75.00	-5	100.0	-7
sec-Butylbenzene			5.000	5	10.00	-1	20.00	6	50.00	0	60.00	0	75.00	-4	100.0	-6
para-Isopropyl Toluene			5.000	6	10.00	-1	20.00	5	50.00	-4	60.00	1	75.00	-2	100.0	-5
1,3-Dichlorobenzene			5.000	3	10.00	2	20.00	3	50.00	-1	60.00	0	75.00	-3	100.0	-5
1,4-Dichlorobenzene			5.000	1	10.00	-1	20.00	2	50.00	1	60.00	2	75.00	-2	100.0	-3
n-Butylbenzene			5.000	4	10.00	0	20.00	6	50.00	3	60.00	-1	75.00	-5	100.0	-8
1,2-Dichlorobenzene			5.000	2	10.00	0	20.00	2	50.00	1	60.00	1	75.00	-3	100.0	-4
1,2-Dibromo-3-Chloropropane			5.000	-5	10.00	-8	20.00	8	50.00	1	60.00	4	75.00	2	100.0	-2
1,2,4-Trichlorobenzene			5.000	-1	10.00	-2	20.00	1	50.00	3	60.00	2	75.00	-1	100.0	-2
Hexachlorobutadiene			5.000	5	10.00	-9	20.00	0	50.00	3	60.00	1	75.00	-1	100.0	1
Naphthalene			5.000	-6	10.00	-5	20.00	4	50.00	3	60.00	4	75.00	2	100.0	-1
1,2,3-Trichlorobenzene			5.000	-6	10.00	-4	20.00	3	50.00	2	60.00	4	75.00	1	100.0	0
Dibromofluoromethane	50.00	-3	50.00	-1	50.00	1	50.00	2	50.00	1	50.00	0	50.00	1	50.00	-1
1,2-Dichloroethane-d4	50.00	5	50.00	6	50.00	6	50.00	5	50.00	-1	50.00	-4	50.00	-7	50.00	-10
Trifluorotoluene			5.000	4	10.00	-4	20.00	0	50.00	3	60.00	0	75.00	-1	100.0	-2
Toluene-d8	50.00	4	50.00	3	50.00	2	50.00	1	50.00	-2	50.00	-1	50.00	-4	50.00	-4
Bromofluorobenzene	50.00	4	50.00	4	50.00	1	50.00	0	50.00	0	50.00	-3	50.00	-3	50.00	-3

Analyst: MJD Date: 03/17/08 Reviewer: LW Date: 03/18/08

*manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Name : 826GOX4S
Calnum : 438107113004 Cal Date : 14-MAR-2008 Type : SOIL

ICV 438107113017 (dce17 14-MAR-2008) stds: S8538 (10000X), S8648 (10000X), S8549 (5000X)
ICV 438109986008 (dcg08 16-MAR-2008) stds: S8534 (10000X), S8549 (5000X)

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	438109986008	16-MAR-2008	1.2319	0.8829	25.00	17.20	ug/L	-31	20	v- ***
Chloromethane	438109986008	16-MAR-2008	1.0159	0.9353	25.00	22.04	ug/L	-12	20	
Vinyl Chloride	438109986008	16-MAR-2008	0.9683	0.9538	25.00	24.62	ug/L	-2	20	
Bromomethane	438109986008	16-MAR-2008	0.6677	0.6149	25.00	21.95	ug/L	-12	20	
Chloroethane	438109986008	16-MAR-2008	0.5090	0.5388	25.00	26.46	ug/L	6	20	
Trichlorofluoromethane	438109986008	16-MAR-2008	1.0904	1.1687	25.00	25.88	ug/L	4	20	
Acetone	438107113017	14-MAR-2008	0.3606	0.3069	25.00	21.28	ug/L	-15	30	
Freon 113	438107113017	14-MAR-2008	0.7342	0.7673	25.00	26.13	ug/L	5	20	
1,1-Dichloroethene	438107113017	14-MAR-2008	0.6241	0.7209	25.00	28.88	ug/L	16	20	
Methylene Chloride	438107113017	14-MAR-2008	0.7689	0.8307	25.00	27.01	ug/L	8	20	
Carbon Disulfide	438107113017	14-MAR-2008	2.2488	2.2285	25.00	24.77	ug/L	-1	20	
MTBE	438107113017	14-MAR-2008	1.9000	1.9611	25.00	25.80	ug/L	3	20	
trans-1,2-Dichloroethene	438107113017	14-MAR-2008	0.6348	0.6786	25.00	26.72	ug/L	7	20	
Vinyl Acetate	438107113017	14-MAR-2008	1.6066	1.5685	25.00	24.41	ug/L	-2	30	
1,1-Dichloroethane	438107113017	14-MAR-2008	1.2483	1.3606	25.00	27.25	ug/L	9	20	
2-Butanone	438107113017	14-MAR-2008	0.4336	0.4630	25.00	26.69	ug/L	7	30	
2,2-Dichloropropane	438107113017	14-MAR-2008	0.9777	1.0566	25.00	27.02	ug/L	8	20	
cis-1,2-Dichloroethene	438107113017	14-MAR-2008	0.6907	0.7624	25.00	27.60	ug/L	10	20	
Chloroform	438107113017	14-MAR-2008	1.2559	1.3457	25.00	26.79	ug/L	7	20	
Bromochloromethane	438107113017	14-MAR-2008	0.3922	0.4135	25.00	26.36	ug/L	5	20	
1,1,1-Trichloroethane	438107113017	14-MAR-2008	0.9676	1.0328	25.00	26.69	ug/L	7	20	
1,1-Dichloropropene	438107113017	14-MAR-2008	0.5938	0.6502	25.00	27.38	ug/L	10	20	
Carbon Tetrachloride	438107113017	14-MAR-2008	0.4877	0.5275	25.00	27.04	ug/L	8	20	
1,2-Dichloroethane	438107113017	14-MAR-2008	0.6696	0.7329	25.00	27.37	ug/L	9	20	
Benzene	438107113017	14-MAR-2008	1.5750	1.7101	25.00	27.14	ug/L	9	20	
Trichloroethene	438107113017	14-MAR-2008	0.4412	0.4772	25.00	27.04	ug/L	8	20	
1,2-Dichloropropane	438107113017	14-MAR-2008	0.4601	0.4947	25.00	26.88	ug/L	8	20	
Bromodichloromethane	438107113017	14-MAR-2008	0.6530	0.7185	25.00	27.51	ug/L	10	20	
Dibromomethane	438107113017	14-MAR-2008	0.3359	0.3680	25.00	27.39	ug/L	10	20	
4-Methyl-2-Pentanone	438107113017	14-MAR-2008	0.6135	0.6203	25.00	25.28	ug/L	1	30	
cis-1,3-Dichloropropene	438107113017	14-MAR-2008	0.6791	0.7414	25.00	27.29	ug/L	9	20	
Toluene	438107113017	14-MAR-2008	0.9316	0.9955	25.00	26.71	ug/L	7	20	
trans-1,3-Dichloropropene	438107113017	14-MAR-2008	0.6553	0.6451	25.00	24.61	ug/L	-2	20	
1,1,2-Trichloroethane	438107113017	14-MAR-2008	0.2131	0.2320	25.00	27.22	ug/L	9	20	
2-Hexanone	438107113017	14-MAR-2008	0.5192	0.5322	25.00	25.62	ug/L	2	30	
1,3-Dichloropropane	438107113017	14-MAR-2008	0.7753	0.8345	25.00	26.91	ug/L	8	20	
Tetrachloroethene	438107113017	14-MAR-2008	0.5197	0.5454	25.00	26.23	ug/L	5	20	
Dibromochloromethane	438107113017	14-MAR-2008	0.5675	0.5932	25.00	26.13	ug/L	5	20	
1,2-Dibromoethane	438107113017	14-MAR-2008	0.4143	0.4474	25.00	27.00	ug/L	8	20	
Chlorobenzene	438107113017	14-MAR-2008	1.1252	1.1808	25.00	26.23	ug/L	5	20	
1,1,1,2-Tetrachloroethane	438107113017	14-MAR-2008	0.4277	0.4506	25.00	26.34	ug/L	5	20	
Ethylbenzene	438107113017	14-MAR-2008	1.9779	2.1594	25.00	27.29	ug/L	9	20	
m,p-Xylenes	438107113017	14-MAR-2008	0.7326	0.7738	50.00	52.81	ug/L	6	20	
o-Xylene	438107113017	14-MAR-2008	0.7482	0.7856	25.00	26.25	ug/L	5	20	
Styrene	438107113017	14-MAR-2008	1.2797	1.3670	25.00	26.71	ug/L	7	20	
Bromoform	438107113017	14-MAR-2008	0.4052	0.4271	25.00	26.35	ug/L	5	20	
Isopropylbenzene	438107113017	14-MAR-2008	3.4725	3.3413	25.00	24.06	ug/L	-4	20	

438107113004 ICVs

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	438107113017	14-MAR-2008	1.1540	1.2211	25.00	26.45	ug/L	6	20	
1,2,3-Trichloropropane	438107113017	14-MAR-2008	0.9927	1.0623	25.00	26.75	ug/L	7	20	
Propylbenzene	438107113017	14-MAR-2008	4.2706	4.6250	25.00	27.07	ug/L	8	20	
Bromobenzene	438107113017	14-MAR-2008	1.0112	1.0716	25.00	26.49	ug/L	6	20	
1,3,5-Trimethylbenzene	438107113017	14-MAR-2008	2.8011	3.0265	25.00	27.01	ug/L	8	20	
2-Chlorotoluene	438107113017	14-MAR-2008	2.8775	3.1165	25.00	27.08	ug/L	8	20	
4-Chlorotoluene	438107113017	14-MAR-2008	2.7177	2.8263	25.00	26.00	ug/L	4	20	
tert-Butylbenzene	438107113017	14-MAR-2008	2.4884	2.6840	25.00	26.96	ug/L	8	20	
1,2,4-Trimethylbenzene	438107113017	14-MAR-2008	2.8614	3.2028	25.00	27.98	ug/L	12	20	
sec-Butylbenzene	438107113017	14-MAR-2008	3.7700	4.0822	25.00	27.07	ug/L	8	20	
para-Isopropyl Toluene	438107113017	14-MAR-2008	3.1521	3.4270	25.00	27.18	ug/L	9	20	
1,3-Dichlorobenzene	438107113017	14-MAR-2008	1.8426	1.9241	25.00	26.11	ug/L	4	20	
1,4-Dichlorobenzene	438107113017	14-MAR-2008	1.8368	1.9129	25.00	26.04	ug/L	4	20	
n-Butylbenzene	438107113017	14-MAR-2008	3.2559	3.5846	25.00	27.52	ug/L	10	20	
1,2-Dichlorobenzene	438107113017	14-MAR-2008	1.7591	1.9002	25.00	27.01	ug/L	8	20	
1,2-Dibromo-3-Chloropropane	438107113017	14-MAR-2008	0.2741	0.2944	25.00	26.85	ug/L	7	20	
1,2,4-Trichlorobenzene	438107113017	14-MAR-2008	1.2843	1.3767	25.00	26.80	ug/L	7	20	
Hexachlorobutadiene	438107113017	14-MAR-2008	0.7459	0.7938	25.00	26.61	ug/L	6	20	
Naphthalene	438107113017	14-MAR-2008	2.9513	3.2631	25.00	27.64	ug/L	11	20	
1,2,3-Trichlorobenzene	438107113017	14-MAR-2008	1.1880	1.3044	25.00	27.45	ug/L	10	20	

-=low bias v=ICV

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE08.D
Date : 14-MAR-2008 14:57
Client ID: DYNA P&T
Sample Info: ICAL,S8668,0,0005/100,S8400,0,0005/100
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: MSVOA04.i
Operator: VOC
Column diameter: 0.32
Y (x10^5)
Min
\\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE08.D
-Freon 12
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Ethanol
-Freon 113+
-Acetone+
-Carbon Disulfide
-Methylene Chloride+
-MTBE
-trans-1,2-Dichloroethene
-Isopropyl Ether (DIPE)
-Vinyl Acetate+
-Ethyl tert-Butyl Ether (E
-2-Butanone+
-Bromochloromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane
-1,4-Difluorobenzene
-Trichloroethene
-Trifluorotoluene+
-Dibromomethane
-Bromodichloromethane
-Tetramethyl THF+
-4-Methyl-2-Pentanone
Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-Tetrachloroethene
-2-Hexanone+
-Dibromochloromethane
-1,2-Dibromoethane
-Ethylbenzene+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform
Isopropylbenzene
Cyclohexanone+
-1,1,2,2-Tetrachloroethane
-Bromobenzene
-2-Chlorotoluene+
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE08.D
Report Date: 17-Mar-2008 12:54

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE08.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-MAR-2008 14:57 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : ICAL,S8668,0.0005/100,S8400,0.0005/100
Misc Info : 2.5PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\826GOX4S.m
Meth Date : 17-Mar-2008 12:54 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 14:57 Cal File: DCE08.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.401	4.408	(0.440)	25619	2.50000	2.2832(M)
2 Chloromethane	50	4.815	4.812	(0.482)	25825	2.50000	2.2081(M)
3 Vinyl Chloride	62	4.963	4.960	(0.496)	21524	2.50000	2.7150
4 Bromomethane	94	5.554	5.561	(0.556)	15293	2.50000	2.4955
5 Chloroethane	64	5.711	5.709	(0.571)	11046	2.50000	2.6505
6 Trichlorofluoromethane	101	6.056	6.054	(0.606)	22544	2.50000	2.0369
7 Ethanol	45	6.332	6.350	(0.633)	23721	2.50000	227.1529(M)
8 Freon 113	101	6.756	6.764	(0.676)	14728	2.50000	2.4502
9 1,1-Dichloroethene	96	6.854	6.863	(0.686)	14859	2.50000	2.9083
10 Acetone	43	6.972	6.981	(0.697)	10380	2.50000	3.5159
11 Isopropanol	45	7.071	7.070	(0.707)	16138	25.0000	25.1542(M)
12 Carbon Disulfide	76	7.248	7.247	(0.725)	45557	2.50000	2.4745
13 Methylene Chloride	84	7.603	7.602	(0.761)	18373	2.50000	2.9187
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.764)	19902	25.0000	22.3878
15 MTBE	73	7.859	7.858	(0.786)	35368	2.50000	2.2738
16 trans-1,2-Dichloroethene	96	7.928	7.927	(0.793)	14423	2.50000	2.7752
17 Isopropyl Ether (DIPE)	45	8.460	8.470	(0.846)	50221	2.50000	2.4188
18 Vinyl Acetate	43	8.529	8.529	(0.853)	26197	2.50000	1.9917
19 1,1-Dichloroethane	63	8.568	8.578	(0.857)	26480	2.50000	2.5911
20 Ethyl tert-Butyl Ether (ETBE)	59	8.962	8.962	(0.897)	39774	2.50000	2.3024
21 2-Butanone	43	9.376	9.376	(0.938)	8509	2.50000	2.3968
22 2,2-Dichloropropane	77	9.366	9.366	(0.937)	18849	2.50000	2.3549

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE08.D
Report Date: 17-Mar-2008 12:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.386	9.396	(0.939)	14105	2.50000	2.4946
	24 Bromochloromethane	128	9.750	9.751	(0.975)	7740	2.50000	2.4105
	25 Tetrahydrofuran	42	9.760	9.761	(0.976)	55068	25.0000	27.4673
	26 Chloroform	83	9.790	9.790	(0.979)	27348	2.50000	2.6598
*	27 Pentafluorobenzene	168	9.997	10.007	(1.000)	409339	50.0000	
	28 Dibromofluoromethane	113	10.036	10.037	(1.004)	225365	50.0000	48.3695
	29 1,1,1-Trichloroethane	97	10.066	10.066	(1.007)	18492	2.50000	2.3344
	30 Carbon Tetrachloride	117	10.263	10.273	(0.923)	9309	2.50000	1.6835
	31 1,1-Dichloropropene	75	10.292	10.293	(0.926)	17325	2.50000	2.5736
	32 1,2-Dichloroethane-d4	65	10.588	10.589	(0.952)	263785	50.0000	52.6378
	33 Benzene	78	10.598	10.598	(0.953)	44338	2.50000	2.4830
	34 Methyl tert-Amyl Ether (TAME)	73	10.617	10.618	(0.955)	31718	2.50000	2.5217
	35 1,2-Dichloroethane	62	10.696	10.697	(0.962)	19834	2.50000	2.6128
*	36 1,4-Difluorobenzene	114	11.120	11.121	(1.000)	566872	50.0000	
	37 Trichloroethene	95	11.514	11.515	(1.035)	12182	2.50000	2.4355
	38 Trifluorotoluene	146	11.888	11.900	(1.069)	20466	2.50000	2.6222
	39 1,2-Dichloropropane	63	11.927	11.929	(1.073)	13426	2.50000	2.5736
	40 Dibromomethane	93	12.115	12.127	(1.089)	8978	2.50000	2.3574
	41 Bromodichloromethane	83	12.282	12.284	(1.105)	16696	2.50000	2.2553
	43 Tetramethyl THF	43	12.873	12.876	(1.158)	35131	2.50000	2.8235
	44 cis-1,3-Dichloropropene	75	12.913	12.925	(1.161)	18901	2.50000	2.4547
	45 4-Methyl-2-Pentanone	43	13.070	13.073	(1.175)	18026	2.50000	2.5916
	46 Toluene-d8	98	13.257	13.260	(1.192)	613507	50.0000	52.0505
	47 Toluene	92	13.346	13.349	(1.200)	27584	2.50000	2.6115
	48 trans-1,3-Dichloropropene	75	13.691	13.694	(1.231)	17722	2.50000	2.3854
	49 1,1,2-Trichloroethane	85	13.957	13.960	(1.255)	5866	2.50000	2.4280
	50 Tetrachloroethene	166	14.075	14.078	(0.924)	12946	2.50000	2.4945
	51 2-Hexanone	43	14.203	14.207	(0.933)	14035	2.50000	2.7071
	52 1,3-Dichloropropane	76	14.203	14.207	(0.933)	19191	2.50000	2.4790
	53 Dibromochloromethane	129	14.489	14.483	(0.951)	12290	2.50000	2.1687
	54 1,2-Dibromoethane	107	14.696	14.690	(1.322)	11669	2.50000	2.4842
*	55 Chlorobenzene-d5	117	15.228	15.222	(1.000)	499250	50.0000	
	56 Chlorobenzene	112	15.257	15.261	(1.002)	28624	2.50000	2.5476
	57 Ethylbenzene	91	15.326	15.321	(1.006)	54600	2.50000	2.7646
	58 1,1,1,2-Tetrachloroethane	131	15.346	15.360	(1.008)	9652	2.50000	2.2598
	59 m,p-Xylenes	106	15.464	15.468	(1.016)	38834	5.00000	5.3085
	60 o-Xylene	106	15.966	15.971	(1.049)	18760	2.50000	2.5110
	61 Styrene	104	15.996	16.001	(1.050)	32122	2.50000	2.5139
	62 Bromoform	173	16.291	16.297	(1.070)	8502	2.50000	2.1014
	63 Isopropylbenzene	105	16.370	16.375	(0.912)	50339	2.50000	2.6161
	64 Cyclohexanone	55	16.617	16.612	(0.925)	37372	25.0000	32.0380
	65 Bromofluorobenzene	95	16.636	16.642	(0.926)	270932	50.0000	52.0223
	66 1,1,2,2-Tetrachloroethane	83	16.784	16.789	(0.935)	14533	2.50000	2.2726
	67 Bromobenzene	156	16.843	16.839	(0.938)	13791	2.50000	2.4613
	68 Propylbenzene	91	16.853	16.849	(0.939)	64835	2.50000	2.7398
	69 1,2,3-Trichloropropane	75	16.873	16.878	(0.940)	15231	2.50000	2.7689
	70 2-Chlorotoluene	91	17.020	17.026	(0.948)	42773	2.50000	2.6826
	71 1,3,5-Trimethylbenzene	105	17.040	17.036	(0.949)	40376	2.50000	2.6013
	72 4-Chlorotoluene	91	17.149	17.144	(0.955)	41537	2.50000	2.7582
	73 tert-Butylbenzene	119	17.405	17.411	(0.969)	34972	2.50000	2.5363
	74 1,2,4-Trimethylbenzene	105	17.474	17.470	(0.973)	41465	2.50000	2.6152
	75 sec-Butylbenzene	105	17.651	17.657	(0.983)	56068	2.50000	2.6839
	76 para-Isopropyl Toluene	119	17.799	17.795	(0.991)	47628	2.50000	2.7268
	77 1,3-Dichlorobenzene	146	17.877	17.884	(0.996)	27671	2.50000	2.7102

AQUA

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE08.D
Report Date: 17-Mar-2008 12:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	17.956	17.953	(1.000)	277052	50.0000	
79 1,4-Dichlorobenzene	146	17.986	17.982	(1.002)	26574	2.50000	2.6109
80 n-Butylbenzene	91	18.272	18.268	(1.018)	48621	2.50000	2.6950
81 1,2-Dichlorobenzene	146	18.439	18.436	(1.027)	24607	2.50000	2.5245
82 1,2-Dibromo-3-Chloropropane	75	19.385	19.382	(1.080)	3647	2.50000	2.4008
83 1,2,4-Trichlorobenzene	180	20.439	20.437	(1.138)	17664	2.50000	2.4821
84 Hexachlorobutadiene	225	20.547	20.555	(1.144)	10474	2.50000	2.5341
85 Naphthalene	128	20.843	20.841	(1.161)	39835	2.50000	2.4358
86 1,2,3-Trichlorobenzene	180	21.197	21.196	(1.180)	16427	2.50000	2.4954

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE09.D
Date : 14-MAR-2008 15:31
Client ID: DYNA P&T
Sample Info: ICAL,S8668,0.001/100,S8400,0.001/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i
Operator: VOC
Column diameter: 0.32

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE09.D
Report Date: 17-Mar-2008 12:55

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-MAR-2008 15:31 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : ICAL,S8668,0.001/100,S8400,0.001/100
Misc Info : 5PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\826GOX4S.m
Meth Date : 17-Mar-2008 12:55 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 15:31 Cal File: DCE09.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.402	4.408	(0.440)	31982	5.00000	2.9316(M)
2 Chloromethane	50	4.816	4.812	(0.482)	27134	5.00000	2.4033
3 Vinyl Chloride	62	4.963	4.960	(0.496)	25551	5.00000	3.2611
4 Bromomethane	94	5.564	5.561	(0.557)	15904	5.00000	2.6361
5 Chloroethane	64	5.712	5.709	(0.571)	15108	5.00000	3.6681
6 Trichlorofluoromethane	101	6.057	6.054	(0.606)	28799	5.00000	2.7626
7 Ethanol	45	6.333	6.350	(0.633)	50600	500.000	490.2745(M)
8 Freon 113	101	6.766	6.764	(0.677)	29804	5.00000	5.0169
9 1,1-Dichloroethene	96	6.865	6.863	(0.687)	26651	5.00000	5.2780
10 Acetone	43	6.983	6.981	(0.698)	15898	5.00000	5.4487
11 Isopropanol	45	7.071	7.070	(0.707)	26133	50.0000	41.2148
12 Carbon Disulfide	76	7.249	7.247	(0.725)	94077	5.00000	5.1704
13 Methylene Chloride	84	7.603	7.602	(0.761)	36047	5.00000	5.7940
14 tert-Butyl Alcohol (TBA)	59	7.633	7.632	(0.764)	39666	50.0000	45.1478
15 MTBE	73	7.860	7.858	(0.786)	72938	5.00000	4.7446
16 trans-1,2-Dichloroethene	96	7.928	7.927	(0.793)	26940	5.00000	5.2450
17 Isopropyl Ether (DIPE)	45	8.460	8.470	(0.846)	101091	5.00000	4.9265
18 Vinyl Acetate	43	8.529	8.529	(0.853)	59103	5.00000	4.5466
19 1,1-Dichloroethane	63	8.569	8.578	(0.857)	52429	5.00000	5.1910
20 Ethyl tert-Butyl Ether (ETBE)	59	8.963	8.962	(0.897)	82424	5.00000	4.8278
21 2-Butanone	43	9.377	9.376	(0.938)	17787	5.00000	5.0695
22 2,2-Dichloropropane	77	9.367	9.366	(0.937)	38724	5.00000	4.8952

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE09.D
Report Date: 17-Mar-2008 12:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.386	9.396	(0.939)	28322	5.00000	5.0682
	24 Bromochloromethane	128	9.751	9.751	(0.975)	16247	5.00000	5.1197
	25 Tetrahydrofuran	42	9.761	9.761	(0.976)	107772	50.0000	54.3909
	26 Chloroform	83	9.790	9.790	(0.979)	53779	5.00000	5.2923
*	27 Pentafluorobenzene	168	9.997	10.007	(1.000)	404557	50.0000	
	28 Dibromofluoromethane	113	10.037	10.037	(1.004)	228200	50.0000	49.5569
	29 1,1,1-Trichloroethane	97	10.066	10.066	(1.007)	37562	5.00000	4.7979
	30 Carbon Tetrachloride	117	10.263	10.273	(0.923)	22624	5.00000	4.0354
	31 1,1-Dichloropropene	75	10.283	10.293	(0.925)	34886	5.00000	5.1112
	32 1,2-Dichloroethane-d4	65	10.588	10.589	(0.952)	268692	50.0000	52.8806
	33 Benzene	78	10.598	10.598	(0.953)	95525	5.00000	5.2761
	34 Methyl tert-Amyl Ether (TAME)	73	10.618	10.618	(0.955)	64855	5.00000	5.0854
	35 1,2-Dichloroethane	62	10.697	10.697	(0.962)	39923	5.00000	5.1870
*	36 1,4-Difluorobenzene	114	11.120	11.121	(1.000)	574766	50.0000	
	37 Trichloroethene	95	11.514	11.515	(1.035)	25490	5.00000	5.0261
	38 Trifluorotoluene	146	11.889	11.900	(1.069)	41011	5.00000	5.1824
	39 1,2-Dichloropropane	63	11.928	11.929	(1.073)	27920	5.00000	5.2785
	40 Dibromomethane	93	12.125	12.127	(1.090)	19533	5.00000	5.0585
	41 Bromodichloromethane	83	12.283	12.284	(1.105)	37339	5.00000	4.9744
	43 Tetramethyl THF	43	12.874	12.876	(1.158)	68358	5.00000	5.4185
	44 cis-1,3-Dichloropropene	75	12.913	12.925	(1.161)	39048	5.00000	5.0017
	45 4-Methyl-2-Pentanone	43	13.071	13.073	(1.175)	34027	5.00000	4.8248
	46 Toluene-d8	98	13.248	13.260	(1.191)	615664	50.0000	51.5161
	47 Toluene	92	13.347	13.349	(1.200)	55579	5.00000	5.1897
	48 trans-1,3-Dichloropropene	75	13.691	13.694	(1.231)	35595	5.00000	4.7254
	49 1,1,2-Trichloroethane	85	13.957	13.960	(1.255)	11519	5.00000	4.7024
	50 Tetrachloroethene	166	14.076	14.078	(0.925)	26751	5.00000	5.0605
	51 2-Hexanone	43	14.204	14.207	(0.933)	25245	5.00000	4.7805
	52 1,3-Dichloropropane	76	14.204	14.207	(0.933)	37277	5.00000	4.7273
	53 Dibromochloromethane	129	14.479	14.483	(0.951)	25376	5.00000	4.3961
	54 1,2-Dibromoethane	107	14.686	14.690	(1.321)	23686	5.00000	4.9732
*	55 Chlorobenzene-d5	117	15.218	15.222	(1.000)	508535	50.0000	
	56 Chlorobenzene	112	15.258	15.261	(1.003)	59739	5.00000	5.2199
	57 Ethylbenzene	91	15.317	15.321	(1.006)	108888	5.00000	5.4128
	58 1,1,1,2-Tetrachloroethane	131	15.346	15.360	(1.008)	19757	5.00000	4.5413
	59 m,p-Xylenes	106	15.465	15.468	(1.016)	77517	10.0000	10.4029
	60 o-Xylene	106	15.967	15.971	(1.049)	38782	5.00000	5.0962
	61 Styrene	104	15.997	16.001	(1.051)	68792	5.00000	5.2855
	62 Bromoform	173	16.292	16.297	(1.071)	17738	5.00000	4.3043
	63 Isopropylbenzene	105	16.371	16.375	(0.912)	103391	5.00000	5.3624
	64 Cyclohexanone	55	16.617	16.612	(0.925)	55628	50.0000	47.5913
	65 Bromofluorobenzene	95	16.637	16.642	(0.926)	270620	50.0000	51.8567
	66 1,1,2,2-Tetrachloroethane	83	16.785	16.789	(0.935)	30578	5.00000	4.7720
	67 Bromobenzene	156	16.844	16.839	(0.938)	28717	5.00000	5.1148
	68 Propylbenzene	91	16.854	16.849	(0.939)	131887	5.00000	5.5620
	69 1,2,3-Trichloropropane	75	16.873	16.878	(0.940)	27385	5.00000	4.9684
	70 2-Chlorotoluene	91	17.021	17.026	(0.948)	88152	5.00000	5.5174
	71 1,3,5-Trimethylbenzene	105	17.041	17.036	(0.949)	83348	5.00000	5.3589
	72 4-Chlorotoluene	91	17.149	17.144	(0.955)	80128	5.00000	5.3101
	73 tert-Butylbenzene	119	17.405	17.411	(0.969)	70952	5.00000	5.1352
	74 1,2,4-Trimethylbenzene	105	17.474	17.470	(0.973)	84209	5.00000	5.3003
	75 sec-Butylbenzene	105	17.652	17.657	(0.983)	109665	5.00000	5.2390
	76 para-Isopropyl Toluene	119	17.799	17.795	(0.991)	93176	5.00000	5.3238
	77 1,3-Dichlorobenzene	146	17.878	17.884	(0.996)	52838	5.00000	5.1646

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE09.D
Report Date: 17-Mar-2008 12:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	17.957	17.953	(1.000)	277617	50.0000	
79 1,4-Dichlorobenzene	146	17.986	17.982	(1.002)	51571	5.00000	5.0566
80 n-Butylbenzene	91	18.262	18.268	(1.017)	94362	5.00000	5.2198
81 1,2-Dichlorobenzene	146	18.440	18.436	(1.027)	49832	5.00000	5.1021
82 1,2-Dibromo-3-Chloropropane	75	19.385	19.382	(1.080)	7259	5.00000	4.7688
83 1,2,4-Trichlorobenzene	180	20.439	20.437	(1.138)	35225	5.00000	4.9397
84 Hexachlorobutadiene	225	20.548	20.555	(1.144)	21831	5.00000	5.2711
85 Naphthalene	128	20.843	20.841	(1.161)	76778	5.00000	4.6853
86 1,2,3-Trichlorobenzene	180	21.198	21.196	(1.180)	30853	5.00000	4.6773

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE10.D

Date : 14-MAR-2008 16:05

Client ID: DYNA P&T

Instrument: MSVOA04.i

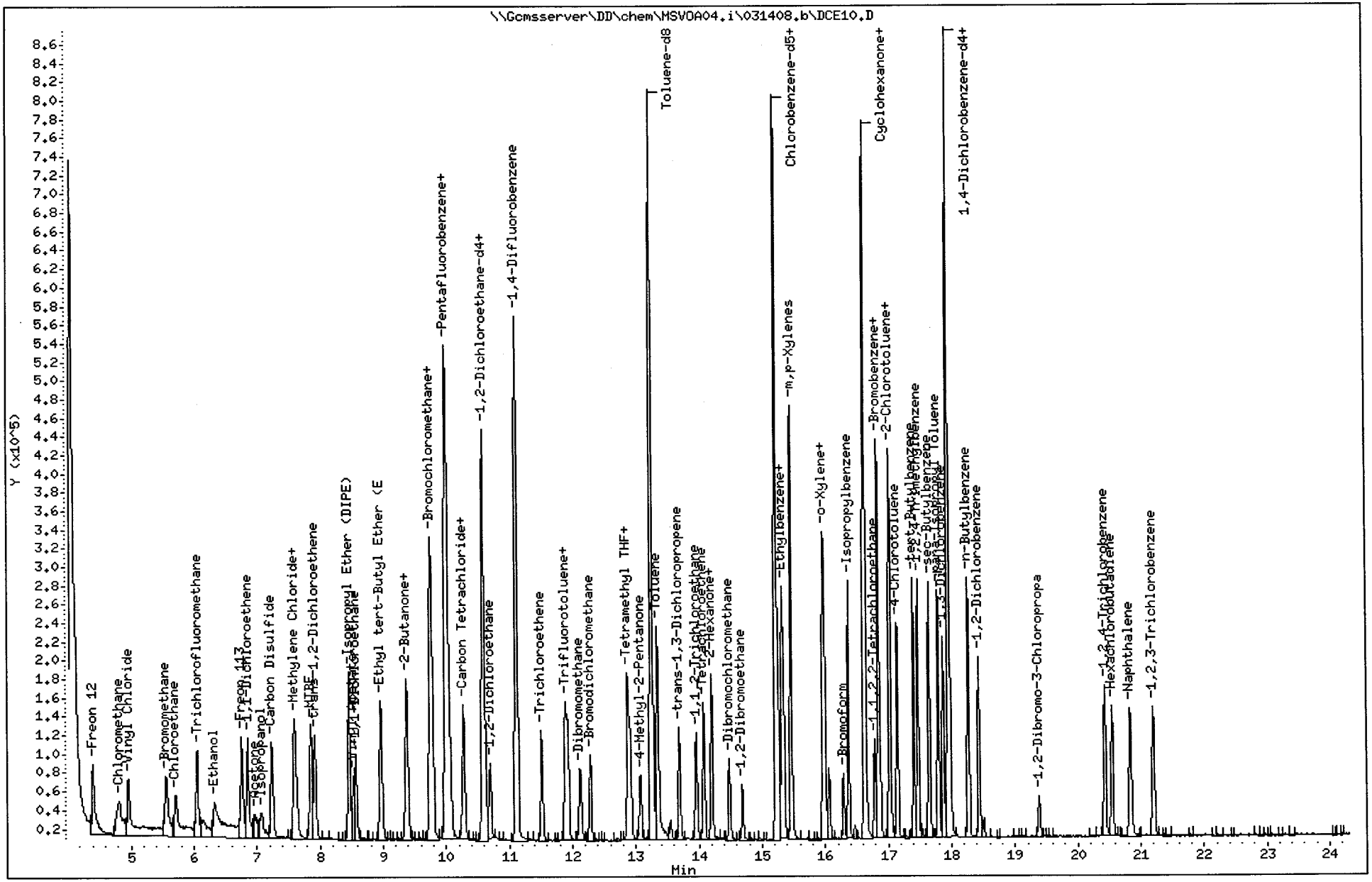
Sample Info: ICAL,S8668,0.002/100,S8400,0.002/100

Purge Volume: 5.0

Operator: VOC

Column phase: RTx Volatiles

Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE10.D
Report Date: 17-Mar-2008 12:56

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-MAR-2008 16:05 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : ICAL,S8668,0.002/100,S8400,0.002/100
Misc Info : 10PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\826GOX4S.m
Meth Date : 17-Mar-2008 12:56 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 16:05 Cal File: DCE10.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.402	4.408	(0.440)	104864	10.0000	10.1523
2 Chloromethane	50	4.806	4.812	(0.481)	90894	10.0000	10.2651
3 Vinyl Chloride	62	4.964	4.960	(0.497)	85467	10.0000	11.0439
4 Bromomethane	94	5.565	5.561	(0.557)	58588	10.0000	10.3656
5 Chloroethane	64	5.713	5.709	(0.571)	45526	10.0000	11.1906
6 Trichlorofluoromethane	101	6.057	6.054	(0.606)	96415	10.0000	10.4238
7 Ethanol	45	6.333	6.350	(0.633)	94268	1000.00	924.7277(M)
8 Freon 113	101	6.767	6.764	(0.677)	52389	10.0000	8.9282
9 1,1-Dichloroethene	96	6.855	6.863	(0.686)	50966	10.0000	10.2188
10 Acetone	43	6.974	6.981	(0.698)	27045	10.0000	9.3842
11 Isopropanol	45	7.062	7.070	(0.706)	56208	100.000	89.7478
12 Carbon Disulfide	76	7.240	7.247	(0.724)	181868	10.0000	10.1194
13 Methylene Chloride	84	7.594	7.602	(0.760)	68194	10.0000	11.0974
14 tert-Butyl Alcohol (TBA)	59	7.634	7.632	(0.764)	79917	100.000	92.0913
15 MTBE	73	7.860	7.858	(0.786)	150115	10.0000	9.8862
16 trans-1,2-Dichloroethene	96	7.919	7.927	(0.792)	50502	10.0000	9.9545
17 Isopropyl Ether (DIPE)	45	8.461	8.470	(0.846)	209645	10.0000	10.3435
18 Vinyl Acetate	43	8.530	8.529	(0.853)	118471	10.0000	9.2267
19 1,1-Dichloroethane	63	8.570	8.578	(0.857)	104558	10.0000	10.4809
20 Ethyl tert-Butyl Ether (ETBE)	59	8.964	8.962	(0.897)	168116	10.0000	9.9694
21 2-Butanone	43	9.377	9.376	(0.938)	33382	10.0000	9.6324
22 2,2-Dichloropropane	77	9.358	9.366	(0.936)	76002	10.0000	9.7269

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE10.D
Report Date: 17-Mar-2008 12:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.387	9.396	(0.939)	56762	10.0000	10.2837
	24 Bromochloromethane	128	9.742	9.751	(0.974)	31423	10.0000	10.0249
	25 Tetrahydrofuran	42	9.761	9.761	(0.976)	213239	100.000	108.9551
	26 Chloroform	83	9.791	9.790	(0.979)	105272	10.0000	10.4885
*	27 Pentafluorobenzene	168	9.998	10.007	(1.000)	399594	50.0000	
	28 Dibromofluoromethane	113	10.027	10.037	(1.003)	228744	50.0000	50.2920
	29 1,1,1-Trichloroethane	97	10.067	10.066	(1.007)	74072	10.0000	9.5791
	30 Carbon Tetrachloride	117	10.264	10.273	(0.923)	47942	10.0000	8.5854
	31 1,1-Dichloropropene	75	10.284	10.293	(0.925)	66384	10.0000	9.7648
	32 1,2-Dichloroethane-d4	65	10.579	10.589	(0.951)	267206	50.0000	52.7978
	33 Benzene	78	10.599	10.598	(0.953)	182205	10.0000	10.1039
	34 Methyl tert-Amyl Ether (TAME)	73	10.619	10.618	(0.955)	131181	10.0000	10.3273
	35 1,2-Dichloroethane	62	10.697	10.697	(0.962)	80773	10.0000	10.5363
*	36 1,4-Difluorobenzene	114	11.121	11.121	(1.000)	572483	50.0000	
	37 Trichloroethene	95	11.515	11.515	(1.035)	51214	10.0000	10.1387
	38 Trifluorotoluene	146	11.889	11.900	(1.069)	75791	10.0000	9.6157
	39 1,2-Dichloropropane	63	11.929	11.929	(1.073)	55499	10.0000	10.5345
	40 Dibromomethane	93	12.116	12.127	(1.089)	39420	10.0000	10.2495
	41 Bromodichloromethane	83	12.283	12.284	(1.105)	74274	10.0000	9.9346
	43 Tetramethyl THF	43	12.874	12.876	(1.158)	136111	10.0000	10.8322
	44 cis-1,3-Dichloropropene	75	12.914	12.925	(1.161)	78436	10.0000	10.0870
	45 4-Methyl-2-Pentanone	43	13.071	13.073	(1.175)	68883	10.0000	9.8062
	46 Toluene-d8	98	13.249	13.260	(1.191)	608653	50.0000	51.1325
	47 Toluene	92	13.347	13.349	(1.200)	110715	10.0000	10.3792
	48 trans-1,3-Dichloropropene	75	13.692	13.694	(1.231)	73699	10.0000	9.8230
	49 1,1,2-Trichloroethane	85	13.958	13.960	(1.255)	25059	10.0000	10.2707
	50 Tetrachloroethene	166	14.076	14.078	(0.925)	49883	10.0000	9.5655
	51 2-Hexanone	43	14.204	14.207	(0.933)	50979	10.0000	9.7858
	52 1,3-Dichloropropane	76	14.204	14.207	(0.933)	77536	10.0000	9.9674
	53 Dibromochloromethane	129	14.480	14.483	(0.951)	53770	10.0000	9.4425
	54 1,2-Dibromoethane	107	14.687	14.690	(1.321)	46438	10.0000	9.7893
*	55 Chlorobenzene-d5	117	15.219	15.222	(1.000)	501671	50.0000	
	56 Chlorobenzene	112	15.258	15.261	(1.003)	114487	10.0000	10.1406
	57 Ethylbenzene	91	15.317	15.321	(1.006)	206210	10.0000	10.3910
	58 1,1,1,2-Tetrachloroethane	131	15.347	15.360	(1.008)	41239	10.0000	9.6089
	59 m,p-Xylenes	106	15.465	15.468	(1.016)	146919	20.0000	19.9867
	60 o-Xylene	106	15.968	15.971	(1.049)	75474	10.0000	10.0536
	61 Styrene	104	15.997	16.001	(1.051)	133786	10.0000	10.4199
	62 Bromoform	173	16.293	16.297	(1.071)	35620	10.0000	8.7618
	63 Isopropylbenzene	105	16.372	16.375	(0.912)	193887	10.0000	10.0784
	64 Cyclohexanone	55	16.618	16.612	(0.926)	109716	100.000	94.0745
	65 Bromofluorobenzene	95	16.638	16.642	(0.927)	263170	50.0000	50.5416
	66 1,1,2,2-Tetrachloroethane	83	16.785	16.789	(0.935)	59933	10.0000	9.3741
	67 Bromobenzene	156	16.844	16.839	(0.939)	55008	10.0000	9.8194
	68 Propylbenzene	91	16.854	16.849	(0.939)	244950	10.0000	10.3533
	69 1,2,3-Trichloropropane	75	16.874	16.878	(0.940)	55502	10.0000	10.0920
	70 2-Chlorotoluene	91	17.022	17.026	(0.948)	164983	10.0000	10.3494
	71 1,3,5-Trimethylbenzene	105	17.032	17.036	(0.949)	162080	10.0000	10.4444
	72 4-Chlorotoluene	91	17.140	17.144	(0.955)	154503	10.0000	10.2618
	73 tert-Butylbenzene	119	17.406	17.411	(0.970)	134175	10.0000	9.7328
	74 1,2,4-Trimethylbenzene	105	17.475	17.470	(0.974)	164616	10.0000	10.3844
	75 sec-Butylbenzene	105	17.652	17.657	(0.984)	206047	10.0000	9.8653
	76 para-Isopropyl Toluene	119	17.800	17.795	(0.992)	172469	10.0000	9.8764
	77 1,3-Dichlorobenzene	146	17.879	17.884	(0.996)	104630	10.0000	10.2498

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE10.D
Report Date: 17-Mar-2008 12:56

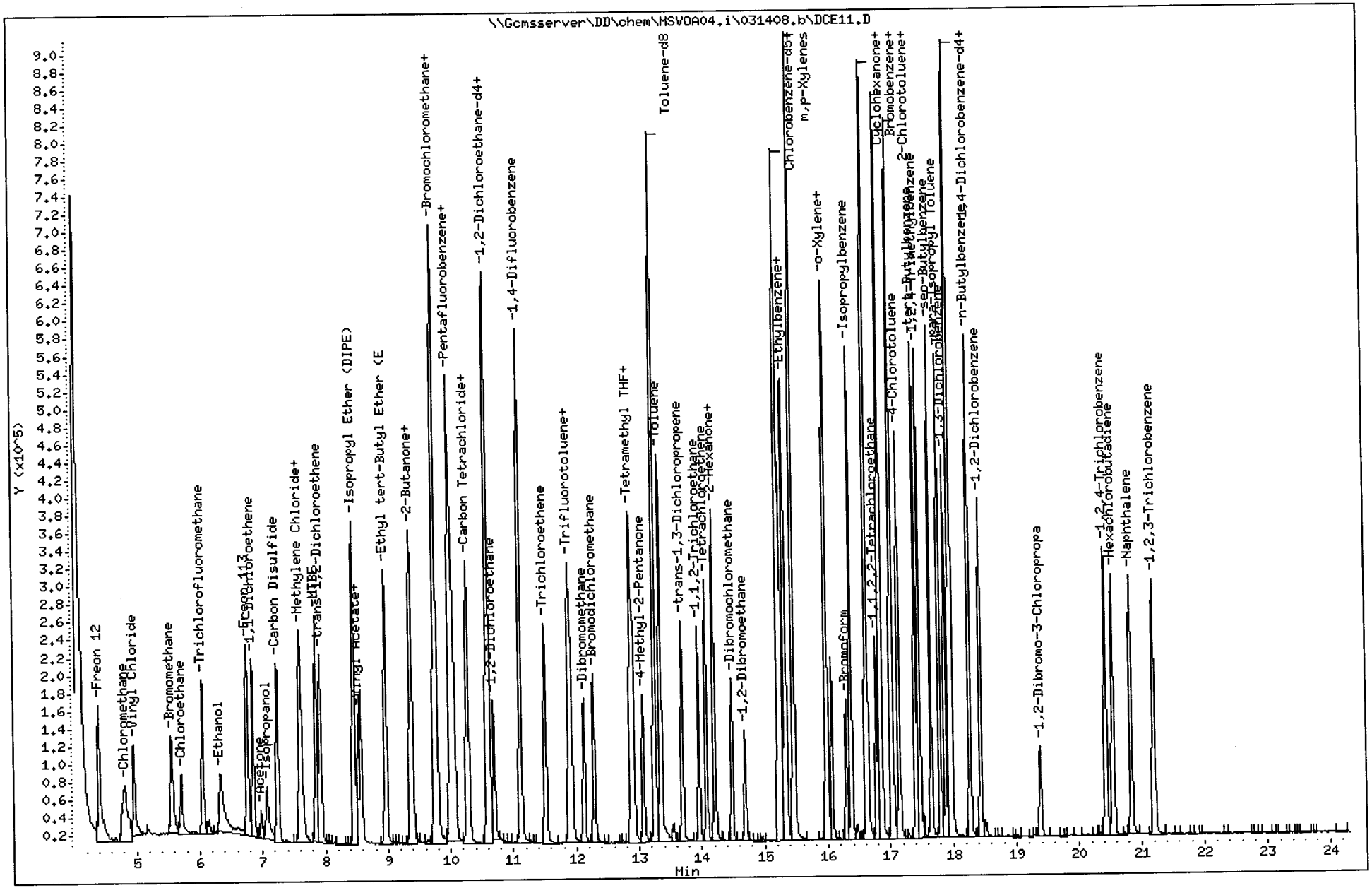
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	17.948	17.953	(1.000)	276999	50.0000	
79 1,4-Dichlorobenzene	146	17.977	17.982	(1.002)	100594	10.0000	9.8855
80 n-Butylbenzene	91	18.263	18.268	(1.018)	180986	10.0000	10.0339
81 1,2-Dichlorobenzene	146	18.430	18.436	(1.027)	97567	10.0000	10.0118
82 1,2-Dibromo-3-Chloropropane	75	19.386	19.382	(1.080)	13951	10.0000	9.1856
83 1,2,4-Trichlorobenzene	180	20.430	20.437	(1.138)	70016	10.0000	9.8405
84 Hexachlorobutadiene	225	20.548	20.555	(1.145)	37731	10.0000	9.1306
85 Naphthalene	128	20.834	20.841	(1.161)	155319	10.0000	9.4994
86 1,2,3-Trichlorobenzene	180	21.199	21.196	(1.181)	63506	10.0000	9.6490

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE11.D
Date : 14-MAR-2008 16:38
Client ID: DYNA P&T
Sample Info: ICAL,S8668,0.004/100,S8400,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE11.D
Report Date: 17-Mar-2008 12:58

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE11.D
Lab Smp Id:
Inj Date : 14-MAR-2008 16:38
Operator : VOC
Smp Info : ICAL,S8668,0.004/100,S8400,0.004/100
Misc Info : 20PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\826GOX4S.m
Meth Date : 17-Mar-2008 12:58 msvoa04
Cal Date : 14-MAR-2008 16:38
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA04

Client Smp ID: DYNA P&T
MS Autotune Date: 12-MAR-2008 09:04
Inst ID: MSVOA04.i
Quant Type: ISTD
Cal File: DCE11.D
Calibration Sample, Level: 4
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.401	4.408	(0.440)	223808	20.0000	22.0205
2 Chloromethane	50	4.815	4.812	(0.482)	179233	20.0000	21.2478
3 Vinyl Chloride	62	4.963	4.960	(0.496)	172097	20.0000	22.3865
4 Bromomethane	94	5.554	5.561	(0.556)	118501	20.0000	21.3081
5 Chloroethane	64	5.712	5.709	(0.571)	88133	20.0000	21.8084
6 Trichlorofluoromethane	101	6.056	6.054	(0.606)	193970	20.0000	21.5657
7 Ethanol	45	6.332	6.350	(0.633)	230501	2000.00	2276.2031(M)
8 Freon 113	101	6.766	6.764	(0.677)	119985	20.0000	20.5844
9 1,1-Dichloroethene	96	6.854	6.863	(0.686)	101411	20.0000	20.4688
10 Acetone	43	6.973	6.981	(0.697)	67160	20.0000	23.4591
11 Isopropanol	45	7.071	7.070	(0.707)	140972	200.000	226.5933
12 Carbon Disulfide	76	7.239	7.247	(0.724)	366963	20.0000	20.5547
13 Methylene Chloride	84	7.593	7.602	(0.760)	125850	20.0000	20.6166
14 tert-Butyl Alcohol (TBA)	59	7.633	7.632	(0.764)	201639	200.000	233.9067
15 MTBE	73	7.859	7.858	(0.786)	313367	20.0000	20.7754
16 trans-1,2-Dichloroethene	96	7.918	7.927	(0.792)	100134	20.0000	19.8692
17 Isopropyl Ether (DIPE)	45	8.460	8.470	(0.846)	426527	20.0000	21.1847
18 Vinyl Acetate	43	8.529	8.529	(0.853)	266184	20.0000	20.8693
19 1,1-Dichloroethane	63	8.568	8.578	(0.857)	202997	20.0000	20.4843
20 Ethyl tert-Butyl Ether (ETBE)	59	8.962	8.962	(0.897)	351806	20.0000	21.0016
21 2-Butanone	43	9.376	9.376	(0.938)	76991	20.0000	22.3642
22 2,2-Dichloropropane	77	9.366	9.366	(0.937)	158735	20.0000	20.4509

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE11.D
Report Date: 17-Mar-2008 12:58

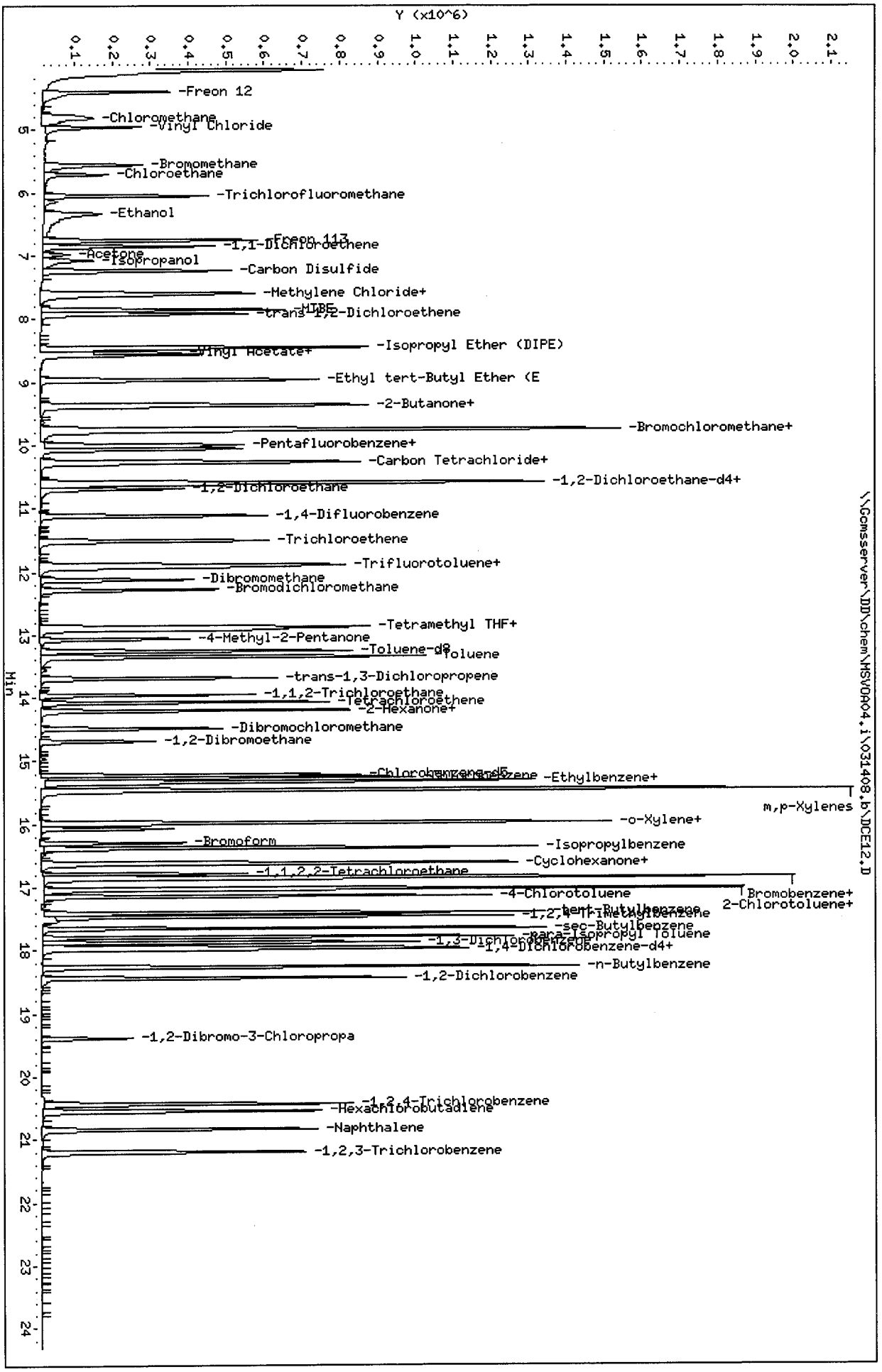
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.386	9.396	(0.939)	111818	20.0000	20.3935
	24 Bromochloromethane	128	9.741	9.751	(0.974)	62479	20.0000	20.0658
	25 Tetrahydrofuran	42	9.760	9.761	(0.976)	466040	200.000	239.7137
	26 Chloroform	83	9.790	9.790	(0.979)	204525	20.0000	20.5133
*	27 Pentafluorobenzene	168	9.997	10.007	(1.000)	396945	50.0000	
	28 Dibromofluoromethane	113	10.026	10.037	(1.003)	230691	50.0000	51.0586
	29 1,1,1-Trichloroethane	97	10.066	10.066	(1.007)	153527	20.0000	19.9868
	30 Carbon Tetrachloride	117	10.263	10.273	(0.923)	113996	20.0000	19.7551
	31 1,1-Dichloropropene	75	10.283	10.293	(0.925)	140851	20.0000	20.0496
	32 1,2-Dichloroethane-d4	65	10.578	10.589	(0.951)	274179	50.0000	52.4262
	33 Benzene	78	10.598	10.598	(0.953)	379213	20.0000	20.3497
	34 Methyl tert-Amyl Ether (TAME)	73	10.617	10.618	(0.955)	270964	20.0000	20.6430
	35 1,2-Dichloroethane	62	10.696	10.697	(0.962)	162888	20.0000	20.5615
*	36 1,4-Difluorobenzene	114	11.120	11.121	(1.000)	591586	50.0000	
	37 Trichloroethene	95	11.514	11.515	(1.035)	103794	20.0000	19.8844
	38 Trifluorotoluene	146	11.888	11.900	(1.069)	162405	20.0000	19.9392
	39 1,2-Dichloropropane	63	11.928	11.929	(1.073)	110509	20.0000	20.2989
	40 Dibromomethane	93	12.125	12.127	(1.090)	82262	20.0000	20.6982
	41 Bromodichloromethane	83	12.282	12.284	(1.105)	156973	20.0000	20.3181
	43 Tetramethyl THF	43	12.873	12.876	(1.158)	281335	20.0000	21.6666
	44 cis-1,3-Dichloropropene	75	12.913	12.925	(1.161)	164275	20.0000	20.4439
	45 4-Methyl-2-Pentanone	43	13.070	13.073	(1.175)	156548	20.0000	21.5667
	46 Toluene-d8	98	13.248	13.260	(1.191)	618378	50.0000	50.2720
	47 Toluene	92	13.346	13.349	(1.200)	221706	20.0000	20.1132
	48 trans-1,3-Dichloropropene	75	13.691	13.694	(1.231)	156916	20.0000	20.2394
	49 1,1,2-Trichloroethane	85	13.957	13.960	(1.255)	52206	20.0000	20.7063
	50 Tetrachloroethene	166	14.075	14.078	(0.924)	104388	20.0000	20.0592
	51 2-Hexanone	43	14.203	14.207	(0.933)	120588	20.0000	23.1961
	52 1,3-Dichloropropane	76	14.203	14.207	(0.933)	159346	20.0000	20.5270
	53 Dibromochloromethane	129	14.479	14.483	(0.951)	115188	20.0000	20.2703
	54 1,2-Dibromoethane	107	14.686	14.690	(1.321)	101366	20.0000	20.6784
*	55 Chlorobenzene-d5	117	15.228	15.222	(1.000)	500625	50.0000	
	56 Chlorobenzene	112	15.257	15.261	(1.002)	226588	20.0000	20.1118
	57 Ethylbenzene	91	15.316	15.321	(1.006)	414513	20.0000	20.9312
	58 1,1,1,2-Tetrachloroethane	131	15.346	15.360	(1.008)	85713	20.0000	20.0133
	59 m,p-Xylenes	106	15.464	15.468	(1.016)	292347	40.0000	39.8536
	60 o-Xylene	106	15.967	15.971	(1.049)	151063	20.0000	20.1646
	61 Styrene	104	15.996	16.001	(1.050)	262167	20.0000	20.4616
	62 Bromoform	173	16.292	16.297	(1.070)	81045	20.0000	19.9771
	63 Isopropylbenzene	105	16.371	16.375	(0.912)	397299	20.0000	20.9795
	64 Cyclohexanone	55	16.617	16.612	(0.925)	294338	200.000	256.3785
	65 Bromofluorobenzene	95	16.636	16.642	(0.926)	255649	50.0000	49.8758
	66 1,1,2,2-Tetrachloroethane	83	16.784	16.789	(0.935)	132409	20.0000	21.0386
	67 Bromobenzene	156	16.843	16.839	(0.938)	111698	20.0000	20.2554
	68 Propylbenzene	91	16.853	16.849	(0.939)	492622	20.0000	21.1519
	69 1,2,3-Trichloropropane	75	16.873	16.878	(0.940)	116748	20.0000	21.5652
	70 2-Chlorotoluene	91	17.021	17.026	(0.948)	326940	20.0000	20.8342
	71 1,3,5-Trimethylbenzene	105	17.040	17.036	(0.949)	320124	20.0000	20.9559
	72 4-Chlorotoluene	91	17.149	17.144	(0.955)	307591	20.0000	20.7536
	73 tert-Butylbenzene	119	17.405	17.411	(0.969)	278798	20.0000	20.5442
	74 1,2,4-Trimethylbenzene	105	17.474	17.470	(0.973)	326479	20.0000	20.9218
	75 sec-Butylbenzene	105	17.651	17.657	(0.983)	435566	20.0000	21.1853
	76 para-Isopropyl Toluene	119	17.799	17.795	(0.991)	362058	20.0000	21.0620
	77 1,3-Dichlorobenzene	146	17.878	17.884	(0.996)	207410	20.0000	20.6407

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE11.D
Report Date: 17-Mar-2008 12:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	17.957	17.953	(1.000)	272675	50.0000	
79 1,4-Dichlorobenzene	146	17.986	17.982	(1.002)	203749	20.0000	20.3402
80 n-Butylbenzene	91	18.262	18.268	(1.017)	377683	20.0000	21.2709
81 1,2-Dichlorobenzene	146	18.439	18.436	(1.027)	196397	20.0000	20.4729
82 1,2-Dibromo-3-Chloropropane	75	19.385	19.382	(1.080)	32304	20.0000	21.6069
83 1,2,4-Trichlorobenzene	180	20.429	20.437	(1.138)	141909	20.0000	20.2611
84 Hexachlorobutadiene	225	20.547	20.555	(1.144)	80990	20.0000	19.9097
85 Naphthalene	128	20.833	20.841	(1.160)	336254	20.0000	20.8918
86 1,2,3-Trichlorobenzene	180	21.198	21.196	(1.180)	132940	20.0000	20.5190

QC Flag Legend

M - Compound response manually integrated.



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE12.D
Date : 14-MAR-2008 17:12
Client ID: DYNA P&T
Sample Info: ICAL,S8668,0,01/100,S8400,0,01/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i
Operator: VOC
Column diameter: 0.32

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE12.D
Report Date: 17-Mar-2008 12:59

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-MAR-2008 17:12 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : ICAL,S8668,0.01/100,S8400,0.01/100
Misc Info : 50PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\826GOX4S.m
Meth Date : 17-Mar-2008 12:59 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 17:12 Cal File: DCE12.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.407	4.408	(0.441)	544925	50.0000	53.1617
2 Chloromethane	50	4.811	4.812	(0.481)	440495	50.0000	52.7909
3 Vinyl Chloride	62	4.959	4.960	(0.496)	415233	50.0000	53.3008
4 Bromomethane	94	5.560	5.561	(0.556)	285242	50.0000	50.8823
5 Chloroethane	64	5.708	5.709	(0.571)	215997	50.0000	52.7427
6 Trichlorofluoromethane	101	6.052	6.054	(0.605)	478058	50.0000	53.0847
7 Ethanol	45	6.338	6.350	(0.634)	522090	5000.00	5087.5941(M)
8 Freon 113	101	6.762	6.764	(0.676)	311087	50.0000	52.6652
9 1,1-Dichloroethene	96	6.860	6.863	(0.686)	256931	50.0000	51.1746
10 Acetone	43	6.978	6.981	(0.698)	143981	50.0000	49.6290
11 Isopropanol	45	7.077	7.070	(0.708)	341088	500.000	541.0154
12 Carbon Disulfide	76	7.244	7.247	(0.724)	914120	50.0000	50.5268
13 Methylene Chloride	84	7.599	7.602	(0.760)	302638	50.0000	48.9234
14 tert-Butyl Alcohol (TBA)	59	7.629	7.632	(0.763)	440726	500.000	504.5052
15 MTBE	73	7.855	7.858	(0.785)	778754	50.0000	50.9478
16 trans-1,2-Dichloroethene	96	7.924	7.927	(0.792)	253426	50.0000	49.6226
17 Isopropyl Ether (DIPE)	45	8.456	8.470	(0.845)	1044093	50.0000	51.1733
18 Vinyl Acetate	43	8.525	8.529	(0.852)	664778	50.0000	51.4318
19 1,1-Dichloroethane	63	8.564	8.578	(0.856)	503415	50.0000	50.1289
20 Ethyl tert-Butyl Ether (ETBE)	59	8.968	8.962	(0.897)	868556	50.0000	51.1654
21 2-Butanone	43	9.372	9.376	(0.937)	177171	50.0000	50.7850
22 2,2-Dichloropropane	77	9.362	9.366	(0.936)	408856	50.0000	51.9803

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE12.D
Report Date: 17-Mar-2008 12:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	cis-1,2-Dichloroethene	96	9.382	9.396	(0.938)	273809	50.0000	49.2785
24	Bromochloromethane	128	9.747	9.751	(0.974)	158802	50.0000	50.3277
25	Tetrahydrofuran	42	9.756	9.761	(0.975)	979211	500.000	497.0211
26	Chloroform	83	9.786	9.790	(0.978)	503303	50.0000	49.8135
* 27	Pentafluorobenzene	168	10.003	10.007	(1.000)	402255	50.0000	
28	Dibromofluoromethane	113	10.032	10.037	(1.003)	230917	50.0000	50.4339
29	1,1,1-Trichloroethane	97	10.072	10.066	(1.007)	404104	50.0000	51.9136
30	Carbon Tetrachloride	117	10.269	10.273	(0.924)	323645	50.0000	55.2958
31	1,1-Dichloropropene	75	10.288	10.293	(0.926)	365733	50.0000	51.3266
32	1,2-Dichloroethane-d4	65	10.584	10.589	(0.952)	263442	50.0000	49.6629
33	Benzene	78	10.604	10.598	(0.954)	948950	50.0000	50.2054
34	Methyl tert-Amyl Ether (TAME)	73	10.623	10.618	(0.956)	671230	50.0000	50.4156
35	1,2-Dichloroethane	62	10.702	10.697	(0.963)	397343	50.0000	49.4498
* 36	1,4-Difluorobenzene	114	11.116	11.121	(1.000)	600047	50.0000	
37	Trichloroethene	95	11.510	11.515	(1.035)	270226	50.0000	51.0388
38	Trifluorotoluene	146	11.894	11.900	(1.070)	424504	50.0000	51.3835
39	1,2-Dichloropropane	63	11.934	11.929	(1.074)	271780	50.0000	49.2182
40	Dibromomethane	93	12.121	12.127	(1.090)	202120	50.0000	50.1390
41	Bromodichloromethane	83	12.278	12.284	(1.105)	398642	50.0000	50.8716
43	Tetramethyl THF	43	12.879	12.876	(1.159)	647574	50.0000	49.1689
44	cis-1,3-Dichloropropene	75	12.919	12.925	(1.162)	415416	50.0000	50.9694
45	4-Methyl-2-Pentanone	43	13.066	13.073	(1.175)	370700	50.0000	50.3492
46	Toluene-d8	98	13.254	13.260	(1.192)	614344	50.0000	49.2398
47	Toluene	92	13.352	13.349	(1.201)	557999	50.0000	49.9081
48	trans-1,3-Dichloropropene	75	13.687	13.694	(1.231)	401698	50.0000	51.0814
49	1,1,2-Trichloroethane	85	13.953	13.960	(1.255)	128216	50.0000	50.1368
50	Tetrachloroethene	166	14.081	14.078	(0.925)	261194	50.0000	49.8145
51	2-Hexanone	43	14.199	14.207	(0.933)	264275	50.0000	50.4543
52	1,3-Dichloropropane	76	14.209	14.207	(0.933)	399558	50.0000	51.0852
53	Dibromochloromethane	129	14.485	14.483	(0.951)	293344	50.0000	51.2343
54	1,2-Dibromoethane	107	14.692	14.690	(1.322)	247161	50.0000	49.7094
* 55	Chlorobenzene-d5	117	15.224	15.222	(1.000)	504409	50.0000	
56	Chlorobenzene	112	15.263	15.261	(1.003)	564524	50.0000	49.7310
57	Ethylbenzene	91	15.322	15.321	(1.006)	993264	50.0000	49.7796
58	1,1,1,2-Tetrachloroethane	131	15.352	15.360	(1.008)	219820	50.0000	50.9413
59	m,p-Xylenes	106	15.460	15.468	(1.016)	734393	100.000	99.3637
60	o-Xylene	106	15.972	15.971	(1.049)	381173	50.0000	50.4991
61	Styrene	104	15.992	16.001	(1.050)	641149	50.0000	49.6651
62	Bromoform	173	16.288	16.297	(1.070)	208999	50.0000	51.1306
63	Isopropylbenzene	105	16.376	16.375	(0.912)	959449	50.0000	50.7218
64	Cyclohexanone	55	16.613	16.612	(0.925)	547472	500.000	477.4096
65	Bromofluorobenzene	95	16.642	16.642	(0.927)	256320	50.0000	50.0636
66	1,1,2,2-Tetrachloroethane	83	16.790	16.789	(0.935)	325535	50.0000	51.7835
67	Bromobenzene	156	16.839	16.839	(0.938)	276415	50.0000	50.1824
68	Propylbenzene	91	16.849	16.849	(0.939)	1179418	50.0000	50.6988
69	1,2,3-Trichloropropane	75	16.879	16.878	(0.940)	266597	50.0000	49.3009
70	2-Chlorotoluene	91	17.017	17.026	(0.948)	762067	50.0000	48.6179
71	1,3,5-Trimethylbenzene	105	17.036	17.036	(0.949)	736494	50.0000	48.2672
72	4-Chlorotoluene	91	17.145	17.144	(0.955)	738469	50.0000	49.8824
73	tert-Butylbenzene	119	17.411	17.411	(0.970)	694916	50.0000	51.2656
74	1,2,4-Trimethylbenzene	105	17.470	17.470	(0.973)	762117	50.0000	48.8946
75	sec-Butylbenzene	105	17.657	17.657	(0.984)	1031453	50.0000	50.2255
76	para-Isopropyl Toluene	119	17.795	17.795	(0.991)	821044	50.0000	47.8170
77	1,3-Dichlorobenzene	146	17.874	17.884	(0.996)	496099	50.0000	49.4263

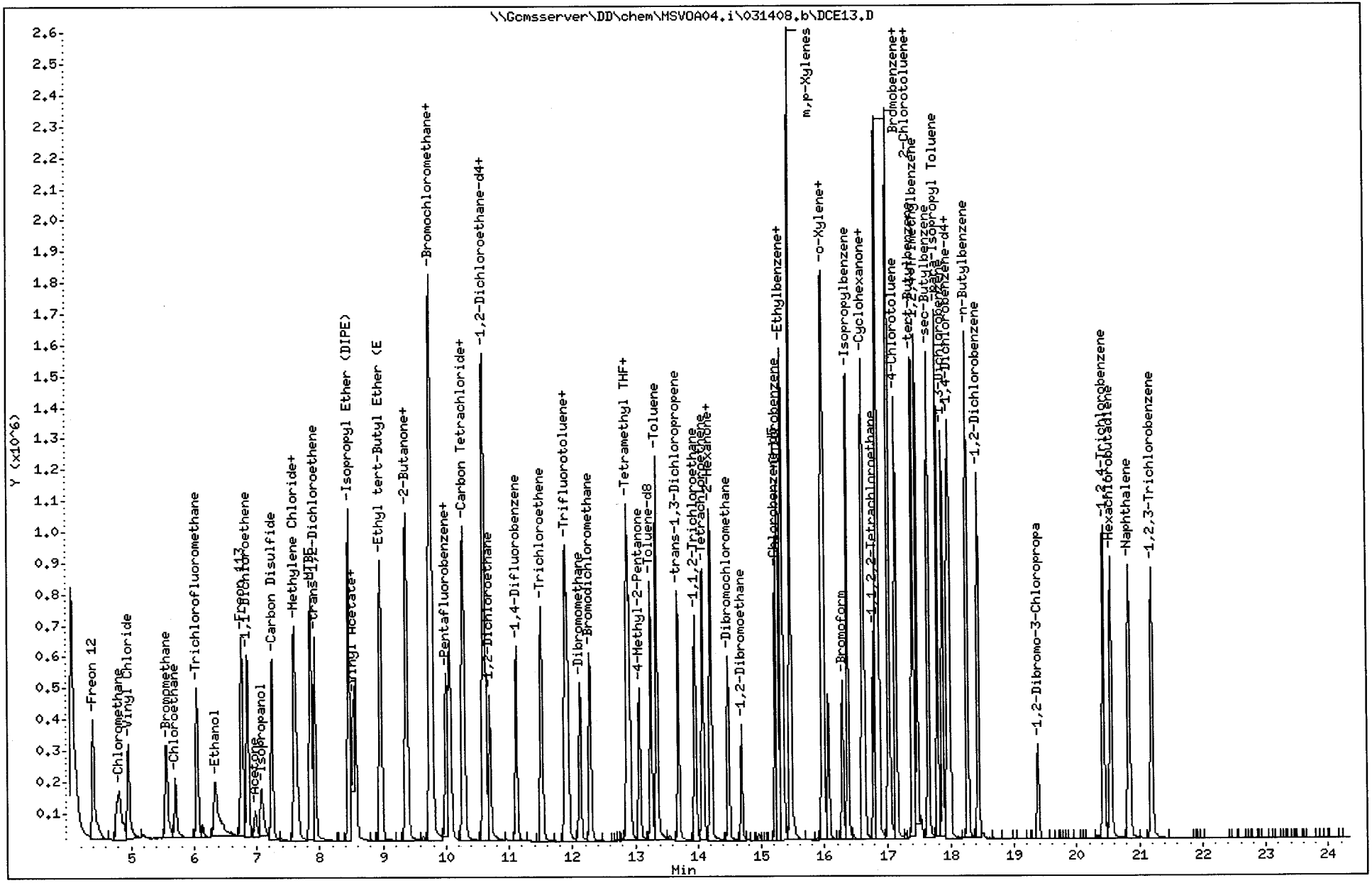
Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE12.D
Report Date: 17-Mar-2008 12:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	17.953	17.953	(1.000)	272365	50.0000	
79 1,4-Dichlorobenzene	146	17.982	17.982	(1.002)	506377	50.0000	50.6090
80 n-Butylbenzene	91	18.268	18.268	(1.018)	914565	50.0000	51.5665
81 1,2-Dichlorobenzene	146	18.435	18.436	(1.027)	482336	50.0000	50.3372
82 1,2-Dibromo-3-Chloropropane	75	19.381	19.382	(1.080)	75400	50.0000	50.4897
83 1,2,4-Trichlorobenzene	180	20.435	20.437	(1.138)	358835	50.0000	51.2911
84 Hexachlorobutadiene	225	20.553	20.555	(1.145)	209619	50.0000	51.5892
85 Naphthalene	128	20.839	20.841	(1.161)	824361	50.0000	51.2766
86 1,2,3-Trichlorobenzene	180	21.203	21.196	(1.181)	331529	50.0000	51.2291

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE13.D
Date : 14-MAR-2008 17:46
Client ID: DYNA P&T
Instrument: MSVOA04.i
Sample Info: ICAL,S8668,0.012/100,S8400,0.012/100
Purge Volume: 5.0
Operator: VOC
Column phase: RTx Volatiles
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE13.D
Report Date: 17-Mar-2008 13:00

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-MAR-2008 17:46 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : ICAL,S8668,0.012/100,S8400,0.012/100
Misc Info : 60PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\826GOX4S.m
Meth Date : 17-Mar-2008 13:00 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 17:46 Cal File: DCE13.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.401	4.408	(0.440)	621167	60.0000	58.8496
2 Chloromethane	50	4.805	4.812	(0.481)	515791	60.0000	60.1306
3 Vinyl Chloride	62	4.963	4.960	(0.496)	481035	60.0000	59.9444
4 Bromomethane	94	5.563	5.561	(0.557)	350401	60.0000	60.7181
5 Chloroethane	64	5.711	5.709	(0.571)	252077	60.0000	59.7555
6 Trichlorofluoromethane	101	6.056	6.054	(0.606)	544121	60.0000	58.7028
7 Ethanol	45	6.332	6.350	(0.633)	626306	6000.00	5924.9347
8 Freon 113	101	6.765	6.764	(0.677)	363548	60.0000	59.7494
9 1,1-Dichloroethene	96	6.854	6.863	(0.686)	292800	60.0000	56.6159
10 Acetone	43	6.982	6.981	(0.698)	176450	60.0000	59.0449
11 Isopropanol	45	7.081	7.070	(0.708)	398901	600.000	614.2402
12 Carbon Disulfide	76	7.248	7.247	(0.725)	1116579	60.0000	59.9154
13 Methylene Chloride	84	7.603	7.602	(0.761)	373398	60.0000	58.5997
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.764)	532574	600.000	591.8435
15 MTBE	73	7.859	7.858	(0.786)	969096	60.0000	61.5491
16 trans-1,2-Dichloroethene	96	7.928	7.927	(0.793)	312284	60.0000	59.3619
17 Isopropyl Ether (DIPE)	45	8.460	8.470	(0.846)	1262996	60.0000	60.0947
18 Vinyl Acetate	43	8.529	8.529	(0.853)	813918	60.0000	61.1316
19 1,1-Dichloroethane	63	8.568	8.578	(0.857)	612402	60.0000	59.2009
20 Ethyl tert-Butyl Ether (ETBE)	59	8.962	8.962	(0.897)	1068494	60.0000	61.1056
21 2-Butanone	43	9.376	9.376	(0.938)	214009	60.0000	59.5532
22 2,2-Dichloropropane	77	9.366	9.366	(0.937)	495152	60.0000	61.1135

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE13.D
Report Date: 17-Mar-2008 13:00

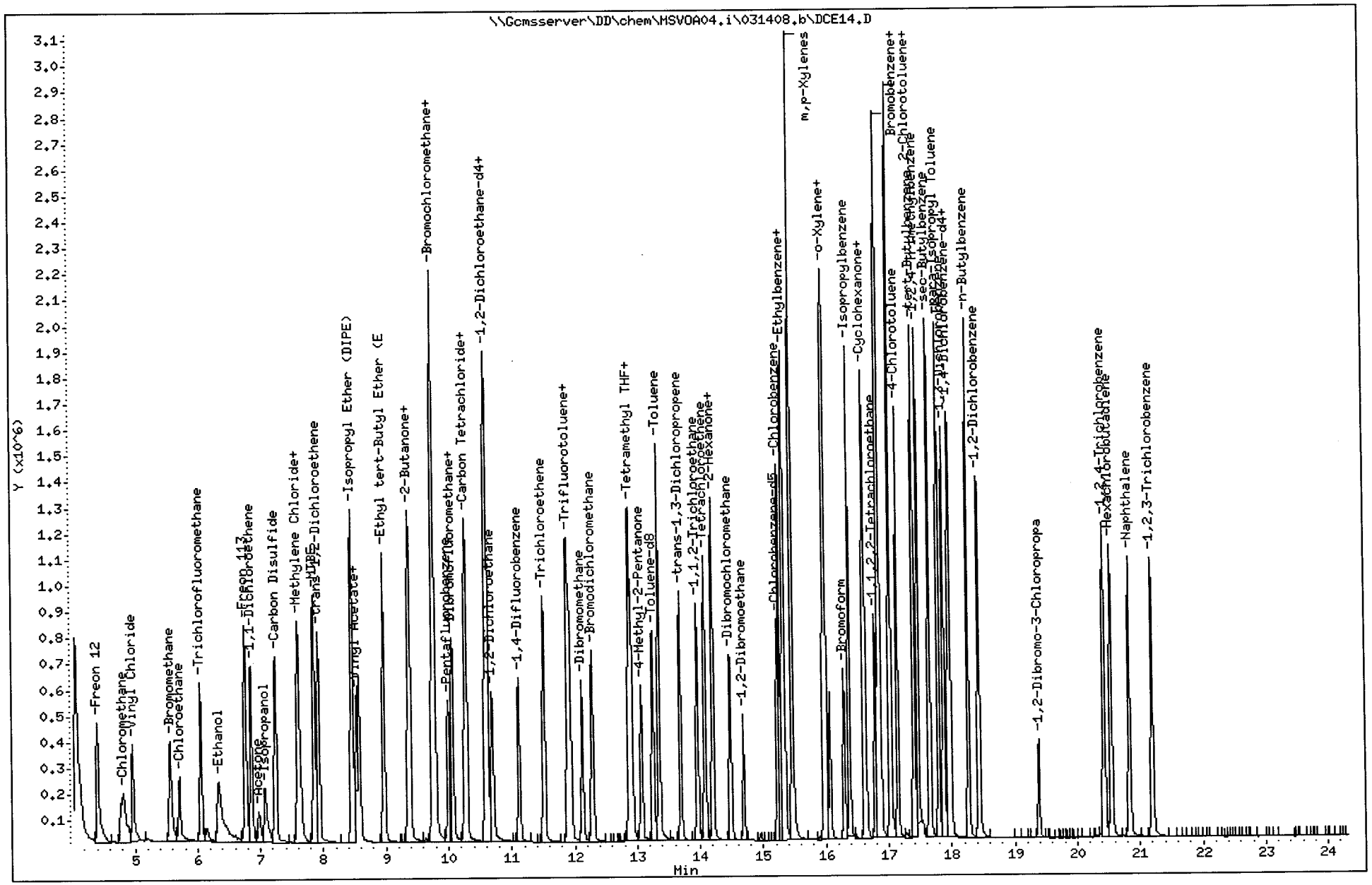
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.386	9.396	(0.939)	346509	60.0000	60.5417
	24 Bromochloromethane	128	9.750	9.751	(0.975)	196377	60.0000	60.4187
	25 Tetrahydrofuran	42	9.760	9.761	(0.976)	1164544	600.000	573.8315
	26 Chloroform	83	9.790	9.790	(0.979)	609529	60.0000	58.5655
*	27 Pentafluorobenzene	168	9.996	10.007	(1.000)	414354	50.0000	
	28 Dibromofluoromethane	113	10.036	10.037	(1.004)	235596	50.0000	49.9534
	29 1,1,1-Trichloroethane	97	10.065	10.066	(1.007)	490684	60.0000	61.1956
	30 Carbon Tetrachloride	117	10.262	10.273	(0.923)	386882	60.0000	64.1821
	31 1,1-Dichloropropene	75	10.292	10.293	(0.926)	445282	60.0000	60.6773
	32 1,2-Dichloroethane-d4	65	10.588	10.589	(0.952)	261230	50.0000	47.8170
	33 Benzene	78	10.597	10.598	(0.953)	1164567	60.0000	59.8252
	34 Methyl tert-Amyl Ether (TAME)	73	10.627	10.618	(0.956)	821521	60.0000	59.9135
	35 1,2-Dichloroethane	62	10.696	10.697	(0.962)	492106	60.0000	59.4662
*	36 1,4-Difluorobenzene	114	11.119	11.121	(1.000)	617978	50.0000	
	37 Trichloroethene	95	11.514	11.515	(1.035)	329249	60.0000	60.3824
	38 Trifluorotoluene	146	11.898	11.900	(1.070)	510708	60.0000	60.0242
	39 1,2-Dichloropropane	63	11.927	11.929	(1.073)	337852	60.0000	59.4083
	40 Dibromomethane	93	12.124	12.127	(1.090)	248872	60.0000	59.9452
	41 Bromodichloromethane	83	12.282	12.284	(1.105)	496595	60.0000	61.5328
	43 Tetramethyl THF	43	12.883	12.876	(1.159)	783188	60.0000	57.7403
	44 cis-1,3-Dichloropropene	75	12.922	12.925	(1.162)	505791	60.0000	60.2573
	45 4-Methyl-2-Pentanone	43	13.070	13.073	(1.175)	455720	60.0000	60.1008
	46 Toluene-d8	98	13.257	13.260	(1.192)	635471	50.0000	49.4553
	47 Toluene	92	13.356	13.349	(1.201)	685519	60.0000	59.5346
	48 trans-1,3-Dichloropropene	75	13.691	13.694	(1.231)	508859	60.0000	62.8308
	49 1,1,2-Trichloroethane	85	13.957	13.960	(1.255)	160595	60.0000	60.9760
	50 Tetrachloroethene	166	14.085	14.078	(0.925)	326019	60.0000	60.1979
	51 2-Hexanone	43	14.203	14.207	(0.933)	315660	60.0000	58.3455
	52 1,3-Dichloropropane	76	14.203	14.207	(0.933)	493935	60.0000	61.1408
	53 Dibromochloromethane	129	14.489	14.483	(0.951)	369066	60.0000	62.4070
	54 1,2-Dibromoethane	107	14.686	14.690	(1.321)	310797	60.0000	60.6942
*	55 Chlorobenzene-d5	117	15.227	15.222	(1.000)	520999	50.0000	
	56 Chlorobenzene	112	15.267	15.261	(1.003)	697887	60.0000	59.5218
	57 Ethylbenzene	91	15.326	15.321	(1.006)	1204926	60.0000	58.4646
	58 1,1,1,2-Tetrachloroethane	131	15.355	15.360	(1.008)	276073	60.0000	61.9403
	59 m,p-Xylenes	106	15.464	15.468	(1.016)	898633	120.000	117.7138
	60 o-Xylene	106	15.976	15.971	(1.049)	464797	60.0000	59.6171
	61 Styrene	104	15.996	16.001	(1.050)	783275	60.0000	58.7425
	62 Bromoform	173	16.291	16.297	(1.070)	274619	60.0000	65.0450
	63 Isopropylbenzene	105	16.380	16.375	(0.912)	1143959	60.0000	58.5593
	64 Cyclohexanone	55	16.616	16.612	(0.925)	689071	600.000	581.8428
	65 Bromofluorobenzene	95	16.636	16.642	(0.926)	256554	50.0000	48.5211
	66 1,1,2,2-Tetrachloroethane	83	16.784	16.789	(0.935)	399444	60.0000	61.5265
	67 Bromobenzene	156	16.843	16.839	(0.938)	342852	60.0000	60.2711
	68 Propylbenzene	91	16.853	16.849	(0.939)	1396358	60.0000	58.1219
	69 1,2,3-Trichloropropane	75	16.873	16.878	(0.940)	337575	60.0000	60.4480
	70 2-Chlorotoluene	91	17.020	17.026	(0.948)	953911	60.0000	58.9282
	71 1,3,5-Trimethylbenzene	105	17.040	17.036	(0.949)	938903	60.0000	59.5821
	72 4-Chlorotoluene	91	17.148	17.144	(0.955)	908077	60.0000	59.3951
	73 tert-Butylbenzene	119	17.414	17.411	(0.970)	845906	60.0000	60.4266
	74 1,2,4-Trimethylbenzene	105	17.473	17.470	(0.973)	960943	60.0000	59.6966
	75 sec-Butylbenzene	105	17.661	17.657	(0.984)	1273399	60.0000	60.0415
	76 para-Isopropyl Toluene	119	17.799	17.795	(0.991)	1076301	60.0000	60.6963
	77 1,3-Dichlorobenzene	146	17.877	17.884	(0.996)	621095	60.0000	59.9184

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE13.D
Report Date: 17-Mar-2008 13:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	17.956	17.953	(1.000)	281280	50.0000	
79 1,4-Dichlorobenzene	146	17.986	17.982	(1.002)	633265	60.0000	61.2847
80 n-Butylbenzene	91	18.271	18.268	(1.018)	1084070	60.0000	59.1865
81 1,2-Dichlorobenzene	146	18.439	18.436	(1.027)	600768	60.0000	60.7098
82 1,2-Dibromo-3-Chloropropane	75	19.385	19.382	(1.080)	95870	60.0000	62.1623
83 1,2,4-Trichlorobenzene	180	20.439	20.437	(1.138)	443202	60.0000	61.3425
84 Hexachlorobutadiene	225	20.547	20.555	(1.144)	253640	60.0000	60.4447
85 Naphthalene	128	20.842	20.841	(1.161)	1034305	60.0000	62.2964
86 1,2,3-Trichlorobenzene	180	21.197	21.196	(1.180)	418943	60.0000	62.6849

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE14.D
Date : 14-MAR-2008 18:19
Client ID: DYNA P&T
Sample Info: ICAL,S8668,0.015/100,S8400,0.015/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA04.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE14.D
Report Date: 17-Mar-2008 13:02

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-MAR-2008 18:19 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : ICAL,S8668,0.015/100,S8400,0.015/100
Misc Info : 75PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\826GOX4S.m
Meth Date : 17-Mar-2008 13:02 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 18:19 Cal File: DCE14.D
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.412	4.408	(0.441)	765438	75.0000	72.4244
2 Chloromethane	50	4.816	4.812	(0.482)	641811	75.0000	74.8965
3 Vinyl Chloride	62	4.964	4.960	(0.497)	603153	75.0000	75.0221
4 Bromomethane	94	5.565	5.561	(0.557)	439899	75.0000	76.1339
5 Chloroethane	64	5.713	5.709	(0.571)	322106	75.0000	76.2136
6 Trichlorofluoromethane	101	6.057	6.054	(0.606)	683319	75.0000	73.6952
7 Ethanol	45	6.343	6.350	(0.634)	788920	7500.00	7449.3687
8 Freon 113	101	6.767	6.764	(0.677)	464674	75.0000	76.2271
9 1,1-Dichloroethene	96	6.865	6.863	(0.687)	385016	75.0000	74.3081
10 Acetone	43	6.983	6.981	(0.699)	220391	75.0000	73.6112
11 Isopropanol	45	7.082	7.070	(0.708)	526745	750.000	809.5861
12 Carbon Disulfide	76	7.249	7.247	(0.725)	1369034	75.0000	73.3251
13 Methylene Chloride	84	7.604	7.602	(0.761)	460719	75.0000	72.1687
14 tert-Butyl Alcohol (TBA)	59	7.634	7.632	(0.764)	681585	750.000	756.0255
15 MTBE	73	7.860	7.858	(0.786)	1198368	75.0000	75.9687
16 trans-1,2-Dichloroethene	96	7.929	7.927	(0.793)	396712	75.0000	75.2702
17 Isopropyl Ether (DIPE)	45	8.461	8.470	(0.846)	1536092	75.0000	72.9526
18 Vinyl Acetate	43	8.530	8.529	(0.853)	1024195	75.0000	76.7817
19 1,1-Dichloroethane	63	8.569	8.578	(0.857)	754841	75.0000	72.8345
20 Ethyl tert-Butyl Ether (ETBE)	59	8.963	8.962	(0.897)	1306183	75.0000	74.5594
21 2-Butanone	43	9.377	9.376	(0.938)	269265	75.0000	74.7898
22 2,2-Dichloropropane	77	9.367	9.366	(0.937)	601391	75.0000	74.0875

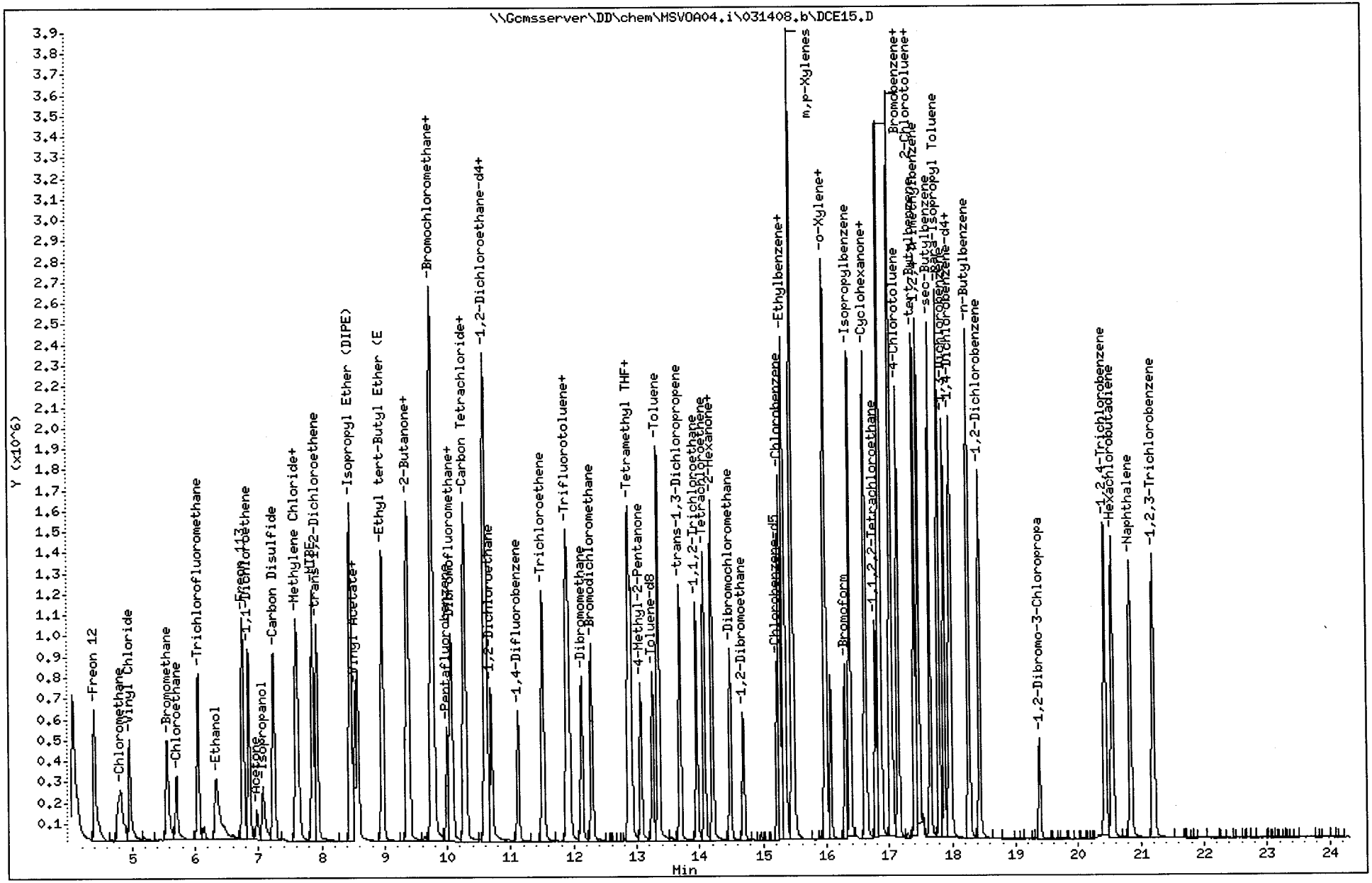
Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE14.D
Report Date: 17-Mar-2008 13:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	cis-1,2-Dichloroethene	96	9.387	9.396	(0.939)	427020	75.0000	74.4694
24	Bromochloromethane	128	9.752	9.751	(0.975)	241682	75.0000	74.2190
25	Tetrahydrofuran	42	9.761	9.761	(0.976)	1417639	750.000	697.2422
26	Chloroform	83	9.791	9.790	(0.979)	754153	75.0000	72.3264
* 27	Pentafluorobenzene	168	9.998	10.007	(1.000)	415128	50.0000	
28	Dibromofluoromethane	113	10.037	10.037	(1.004)	239281	50.0000	50.6401
29	1,1,1-Trichloroethane	97	10.067	10.066	(1.007)	617534	75.0000	76.8721
30	Carbon Tetrachloride	117	10.264	10.273	(0.923)	493588	75.0000	81.1679
31	1,1-Dichloropropene	75	10.293	10.293	(0.926)	554479	75.0000	74.8962
32	1,2-Dichloroethane-d4	65	10.589	10.589	(0.952)	257075	50.0000	46.6448
33	Benzene	78	10.599	10.598	(0.953)	1437903	75.0000	73.2205
34	Methyl tert-Amyl Ether (TAME)	73	10.618	10.618	(0.955)	1014487	75.0000	73.3393
35	1,2-Dichloroethane	62	10.697	10.697	(0.962)	601195	75.0000	72.0130
* 36	1,4-Difluorobenzene	114	11.121	11.121	(1.000)	623432	50.0000	
37	Trichloroethene	95	11.515	11.515	(1.035)	406317	75.0000	73.8644
38	Trifluorotoluene	146	11.889	11.900	(1.069)	639211	75.0000	74.4701
39	1,2-Dichloropropane	63	11.929	11.929	(1.073)	418782	75.0000	72.9949
40	Dibromomethane	93	12.126	12.127	(1.090)	306636	75.0000	73.2126
41	Bromodichloromethane	83	12.283	12.284	(1.105)	605240	75.0000	74.3389
43	Tetramethyl THF	43	12.874	12.876	(1.158)	960169	75.0000	70.1690
44	cis-1,3-Dichloropropene	75	12.924	12.925	(1.162)	630707	75.0000	74.4818
45	4-Methyl-2-Pentanone	43	13.071	13.073	(1.175)	572637	75.0000	74.8593
46	Toluene-d8	98	13.258	13.260	(1.192)	624951	50.0000	48.2111
47	Toluene	92	13.347	13.349	(1.200)	852310	75.0000	73.3722
48	trans-1,3-Dichloropropene	75	13.692	13.694	(1.231)	621880	75.0000	76.1142
49	1,1,2-Trichloroethane	85	13.958	13.960	(1.255)	201000	75.0000	75.6497
50	Tetrachloroethene	166	14.076	14.078	(0.924)	412274	75.0000	76.4435
51	2-Hexanone	43	14.204	14.207	(0.933)	393377	75.0000	73.0151
52	1,3-Dichloropropane	76	14.204	14.207	(0.933)	610102	75.0000	75.8367
53	Dibromochloromethane	129	14.490	14.483	(0.951)	468716	75.0000	79.5894
54	1,2-Dibromoethane	107	14.687	14.690	(1.321)	392522	75.0000	75.9834
* 55	Chlorobenzene-d5	117	15.229	15.222	(1.000)	518825	50.0000	
56	Chlorobenzene	112	15.268	15.261	(1.003)	864876	75.0000	74.0732
57	Ethylbenzene	91	15.317	15.321	(1.006)	1457050	75.0000	70.9943
58	1,1,1,2-Tetrachloroethane	131	15.347	15.360	(1.008)	346514	75.0000	78.0703
59	m,p-Xylenes	106	15.465	15.468	(1.016)	1111298	150.000	146.1812
60	o-Xylene	106	15.968	15.971	(1.049)	576909	75.0000	74.3072
61	Styrene	104	15.997	16.001	(1.050)	960634	75.0000	72.3456
62	Bromoform	173	16.293	16.297	(1.070)	342321	75.0000	81.4203
63	Isopropylbenzene	105	16.371	16.375	(0.912)	1411055	75.0000	71.2077
64	Cyclohexanone	55	16.618	16.612	(0.925)	818550	750.000	681.3722
65	Bromofluorobenzene	95	16.637	16.642	(0.926)	260114	50.0000	48.4968
66	1,1,2,2-Tetrachloroethane	83	16.785	16.789	(0.935)	502414	75.0000	76.2896
67	Bromobenzene	156	16.844	16.839	(0.938)	428283	75.0000	74.2217
68	Propylbenzene	91	16.854	16.849	(0.939)	1686297	75.0000	69.1950
69	1,2,3-Trichloropropane	75	16.874	16.878	(0.940)	418461	75.0000	73.8694
70	2-Chlorotoluene	91	17.022	17.026	(0.948)	1163217	75.0000	70.8392
71	1,3,5-Trimethylbenzene	105	17.041	17.036	(0.949)	1136435	75.0000	71.0947
72	4-Chlorotoluene	91	17.150	17.144	(0.955)	1111239	75.0000	71.6527
73	tert-Butylbenzene	119	17.406	17.411	(0.969)	1034545	75.0000	72.8540
74	1,2,4-Trimethylbenzene	105	17.475	17.470	(0.973)	1167626	75.0000	71.5077
75	sec-Butylbenzene	105	17.652	17.657	(0.983)	1552699	75.0000	72.1726
76	para-Isopropyl Toluene	119	17.800	17.795	(0.991)	1317507	75.0000	73.2451
77	1,3-Dichlorobenzene	146	17.879	17.884	(0.996)	763907	75.0000	72.6507

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE14.D
Report Date: 17-Mar-2008 13:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	17.957	17.953	(1.000)	285326	50.0000	
79 1,4-Dichlorobenzene	146	17.987	17.982	(1.002)	772946	75.0000	73.7417
80 n-Butylbenzene	91	18.263	18.268	(1.017)	1325014	75.0000	71.3154
81 1,2-Dichlorobenzene	146	18.440	18.436	(1.027)	732187	75.0000	72.9410
82 1,2-Dibromo-3-Chloropropane	75	19.386	19.382	(1.080)	119540	75.0000	76.4108
83 1,2,4-Trichlorobenzene	180	20.440	20.437	(1.138)	543945	75.0000	74.2185
84 Hexachlorobutadiene	225	20.548	20.555	(1.144)	314531	75.0000	73.8928
85 Naphthalene	128	20.834	20.841	(1.160)	1286612	75.0000	76.3941
86 1,2,3-Trichlorobenzene	180	21.198	21.196	(1.180)	512770	75.0000	75.6360

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE15.D
Date : 14-MAR-2008 18:54
Client ID: DYNA P&T
Instrument: MSVOA04.i
Sample Info: ICAL,S8668,0.02/100,S8400,0.02/100
Purge Volume: 5.0
Operator: VOC
Column phase: RTx Volatiles
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE15.D
Report Date: 17-Mar-2008 13:03

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-MAR-2008 18:54 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : ICAL,S8668,0.02/100,S8400,0.02/100
Misc Info : 100PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\826GOX4S.m
Meth Date : 17-Mar-2008 13:03 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 18:54 Cal File: DCE15.D
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.402	4.408	(0.440)	1061781	100.000	100.4596
2 Chloromethane	50	4.815	4.812	(0.482)	840352	100.000	98.2655
3 Vinyl Chloride	62	4.963	4.960	(0.496)	782536	100.000	97.2624
4 Bromomethane	94	5.564	5.561	(0.557)	566079	100.000	97.9555
5 Chloroethane	64	5.712	5.709	(0.571)	418686	100.000	98.9923
6 Trichlorofluoromethane	101	6.057	6.054	(0.606)	924279	100.000	99.7649
7 Ethanol	45	6.342	6.350	(0.634)	995085	10000.0	9389.1360
8 Freon 113	101	6.766	6.764	(0.677)	615580	100.000	100.9078
9 1,1-Dichloroethene	96	6.855	6.863	(0.686)	488026	100.000	94.1194
10 Acetone	43	6.983	6.981	(0.698)	278787	100.000	93.0468
11 Isopropanol	45	7.081	7.070	(0.708)	625100	1000.00	960.0439
12 Carbon Disulfide	76	7.249	7.247	(0.725)	1755291	100.000	93.9435
13 Methylene Chloride	84	7.603	7.602	(0.761)	601837	100.000	94.2043
14 tert-Butyl Alcohol (TBA)	59	7.633	7.632	(0.764)	817489	1000.00	906.1025
15 MTBE	73	7.859	7.858	(0.786)	1524920	100.000	96.5986
16 trans-1,2-Dichloroethene	96	7.928	7.927	(0.793)	515128	100.000	97.6657
17 Isopropyl Ether (DIPE)	45	8.460	8.470	(0.846)	1945654	100.000	92.3354
18 Vinyl Acetate	43	8.529	8.529	(0.853)	1284963	100.000	96.2597
19 1,1-Dichloroethane	63	8.569	8.578	(0.857)	963590	100.000	92.9080
20 Ethyl tert-Butyl Ether (ETBE)	59	8.963	8.962	(0.897)	1668202	100.000	95.1538
21 2-Butanone	43	9.376	9.376	(0.938)	328980	100.000	91.3085
22 2,2-Dichloropropane	77	9.367	9.366	(0.937)	795854	100.000	97.9717

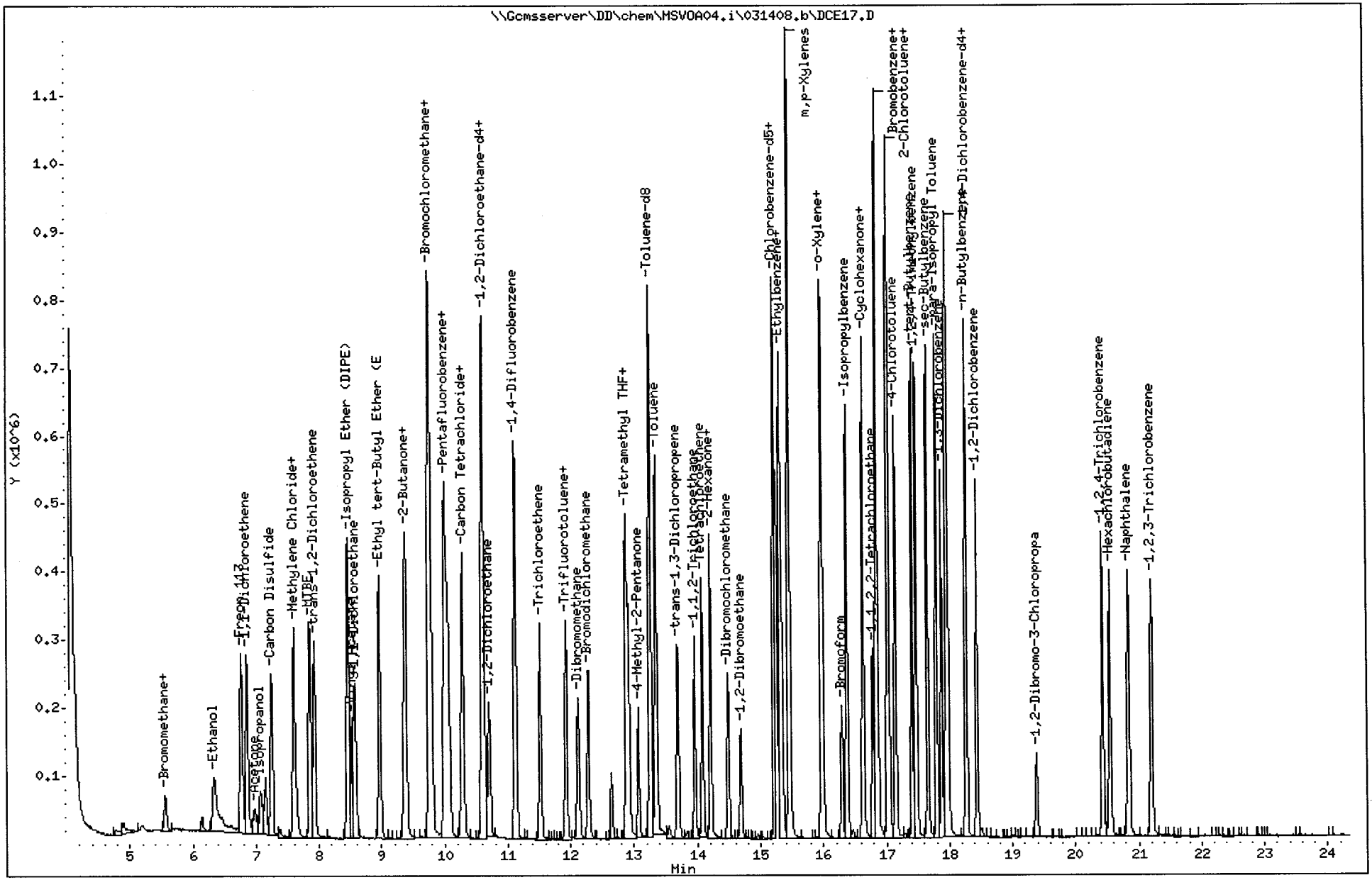
Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE15.D
Report Date: 17-Mar-2008 13:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.386	9.396	(0.939)	545596	100.000	95.0779
	24 Bromochloromethane	128	9.751	9.751	(0.975)	315169	100.000	96.7149
	25 Tetrahydrofuran	42	9.761	9.761	(0.976)	1692464	1000.00	831.7952
	26 Chloroform	83	9.790	9.790	(0.979)	970737	100.000	93.0289
*	27 Pentafluorobenzene	168	9.997	10.007	(1.000)	415435	50.0000	
	28 Dibromofluoromethane	113	10.036	10.037	(1.004)	234990	50.0000	49.6952
	29 1,1,1-Trichloroethane	97	10.066	10.066	(1.007)	803911	100.000	99.9988
	30 Carbon Tetrachloride	117	10.263	10.273	(0.923)	658837	100.000	108.8757
	31 1,1-Dichloropropene	75	10.293	10.293	(0.926)	708967	100.000	96.2353
	32 1,2-Dichloroethane-d4	65	10.588	10.589	(0.952)	247521	50.0000	45.1324
	33 Benzene	78	10.598	10.598	(0.953)	1835783	100.000	93.9417
	34 Methyl tert-Amyl Ether (TAME)	73	10.628	10.618	(0.956)	1284671	100.000	93.3288
	35 1,2-Dichloroethane	62	10.697	10.697	(0.962)	781414	100.000	94.0611
*	36 1,4-Difluorobenzene	114	11.120	11.121	(1.000)	620377	50.0000	
	37 Trichloroethene	95	11.514	11.515	(1.035)	533515	100.000	97.4653
	38 Trifluorotoluene	146	11.898	11.900	(1.070)	840438	100.000	98.3959
	39 1,2-Dichloropropane	63	11.928	11.929	(1.073)	529857	100.000	92.8104
	40 Dibromomethane	93	12.125	12.127	(1.090)	396095	100.000	95.0376
	41 Bromodichloromethane	83	12.283	12.284	(1.105)	779031	100.000	96.1561
	43 Tetramethyl THF	43	12.874	12.876	(1.158)	1182498	100.000	86.8423
	44 cis-1,3-Dichloropropene	75	12.923	12.925	(1.162)	802184	100.000	95.1984
	45 4-Methyl-2-Pentanone	43	13.071	13.073	(1.175)	711148	100.000	93.4242
	46 Toluene-d8	98	13.258	13.260	(1.192)	620745	50.0000	48.1224
	47 Toluene	92	13.346	13.349	(1.200)	1097859	100.000	94.9760
	48 trans-1,3-Dichloropropene	75	13.691	13.694	(1.231)	794299	100.000	97.6959
	49 1,1,2-Trichloroethane	85	13.957	13.960	(1.255)	256320	100.000	96.9453
	50 Tetrachloroethene	166	14.085	14.078	(0.925)	533396	100.000	100.9543
	51 2-Hexanone	43	14.203	14.207	(0.933)	478490	100.000	90.6561
	52 1,3-Dichloropropane	76	14.203	14.207	(0.933)	772026	100.000	97.9557
	53 Dibromochloromethane	129	14.489	14.483	(0.951)	598296	100.000	103.7008
	54 1,2-Dibromoethane	107	14.686	14.690	(1.321)	500490	100.000	97.3607
*	55 Chlorobenzene-d5	117	15.228	15.222	(1.000)	508277	50.0000	
	56 Chlorobenzene	112	15.267	15.261	(1.003)	1100456	100.000	96.2056
	57 Ethylbenzene	91	15.327	15.321	(1.006)	1840024	100.000	91.5152
	58 1,1,1,2-Tetrachloroethane	131	15.346	15.360	(1.008)	451374	100.000	103.8059
	59 m,p-Xylenes	106	15.464	15.468	(1.016)	1419795	200.000	190.6370
	60 o-Xylene	106	15.967	15.971	(1.049)	739896	100.000	97.2780
	61 Styrene	104	15.996	16.001	(1.050)	1223896	100.000	94.0848
	62 Bromoform	173	16.292	16.297	(1.070)	441460	100.000	107.1793
	63 Isopropylbenzene	105	16.381	16.375	(0.912)	1788821	100.000	93.0822
	64 Cyclohexanone	55	16.617	16.612	(0.925)	1100165	1000.00	944.3077
	65 Bromofluorobenzene	95	16.637	16.642	(0.926)	252909	50.0000	48.6217
	66 1,1,2,2-Tetrachloroethane	83	16.784	16.789	(0.935)	624575	100.000	97.7924
	67 Bromobenzene	156	16.844	16.839	(0.938)	550942	100.000	98.4515
	68 Propylbenzene	91	16.853	16.849	(0.939)	2101967	100.000	88.9371
	69 1,2,3-Trichloropropane	75	16.873	16.878	(0.940)	516656	100.000	94.0432
	70 2-Chlorotoluene	91	17.021	17.026	(0.948)	1466393	100.000	92.0831
	71 1,3,5-Trimethylbenzene	105	17.041	17.036	(0.949)	1441146	100.000	92.9646
	72 4-Chlorotoluene	91	17.149	17.144	(0.955)	1400505	100.000	93.1165
	73 tert-Butylbenzene	119	17.405	17.411	(0.969)	1333957	100.000	96.8639
	74 1,2,4-Trimethylbenzene	105	17.474	17.470	(0.973)	1471310	100.000	92.9116
	75 sec-Butylbenzene	105	17.651	17.657	(0.983)	1958900	100.000	93.8888
	76 para-Isopropyl Toluene	119	17.799	17.795	(0.991)	1657112	100.000	94.9936
	77 1,3-Dichlorobenzene	146	17.878	17.884	(0.996)	973020	100.000	95.4417

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE15.D
Report Date: 17-Mar-2008 13:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	17.957	17.953	(1.000)	276710	50.0000	
79 1,4-Dichlorobenzene	146	17.986	17.982	(1.002)	982258	100.000	96.6287
80 n-Butylbenzene	91	18.272	18.268	(1.018)	1658517	100.000	92.0448
81 1,2-Dichlorobenzene	146	18.439	18.436	(1.027)	938067	100.000	96.3607
82 1,2-Dibromo-3-Chloropropane	75	19.385	19.382	(1.080)	149090	100.000	98.2668
83 1,2,4-Trichlorobenzene	180	20.439	20.437	(1.138)	694534	100.000	97.7164
84 Hexachlorobutadiene	225	20.548	20.555	(1.144)	418080	100.000	101.2778
85 Naphthalene	128	20.843	20.841	(1.161)	1610436	100.000	98.5989
86 1,2,3-Trichlorobenzene	180	21.198	21.196	(1.180)	654752	100.000	99.5862

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE17.D
Date : 14-MAR-2008 20:01
Client ID: DYNA P&T
Instrument: MSVOA04.i
Sample Info: ICV,S8538,10000X,S8648,10000X
Purge Volume: 5.0
Operator: VOC
Column phase: RTx Volatiles
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE17.D
Report Date: 17-Mar-2008 13:09

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-MAR-2008 20:01 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : ICV,S8538,10000X,S8648,10000X
Misc Info : ICV25PPB,NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\826GOX4S.m
Meth Date : 17-Mar-2008 13:03 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 18:54 Cal File: DCE15.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4 Bromomethane	94	5.559	5.561	(0.556)	43798	7.84819	7.8481
5 Chloroethane	64	5.707	5.709	(0.571)	777	0.19459	0.1945
7 Ethanol	45	6.337	6.350	(0.634)	269786	2696.30	2696.2997(M)
8 Freon 113	101	6.771	6.764	(0.677)	150470	26.1260	26.1260
9 1,1-Dichloroethene	96	6.860	6.863	(0.686)	141364	28.8774	28.8774
10 Acetone	43	6.978	6.981	(0.698)	60192	21.2790	21.2790
11 Isopropanol	45	7.076	7.070	(0.707)	151964	247.210	247.2097
12 Carbon Disulfide	76	7.244	7.247	(0.724)	437015	24.7741	24.7740
13 Methylene Chloride	84	7.598	7.602	(0.760)	162911	27.0101	27.0100
14 tert-Butyl Alcohol (TBA)	59	7.628	7.632	(0.763)	117584	138.047	138.0469
15 MTBE	73	7.854	7.858	(0.785)	384585	25.8047	25.8047
16 trans-1,2-Dichloroethene	96	7.923	7.927	(0.792)	133070	26.7233	26.7233
17 Isopropyl Ether (DIPE)	45	8.465	8.470	(0.846)	525682	26.4247	26.4246
18 Vinyl Acetate	43	8.534	8.529	(0.853)	307582	24.4061	24.4061
19 1,1-Dichloroethane	63	8.574	8.578	(0.857)	266828	27.2506	27.2505
20 Ethyl tert-Butyl Ether (ETBE)	59	8.968	8.962	(0.897)	432489	26.1298	26.1297
21 2-Butanone	43	9.372	9.376	(0.937)	90790	26.6909	26.6908
22 2,2-Dichloropropane	77	9.362	9.366	(0.936)	207199	27.0171	27.0170
23 cis-1,2-Dichloroethene	96	9.391	9.396	(0.939)	149520	27.5989	27.5988
24 Bromochloromethane	128	9.746	9.751	(0.974)	81098	26.3599	26.3598
25 Tetrahydrofuran	42	9.756	9.761	(0.975)	540515	281.377	281.3766
26 Chloroform	83	9.795	9.790	(0.979)	263900	26.7879	26.7879

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE17.D
Report Date: 17-Mar-2008 13:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
*	27 Pentafluorobenzene	168	10.002	10.007	(1.000)	392211	50.0000	
	28 Dibromofluoromethane	113	10.032	10.037	(1.003)	226451	50.7251	50.7251
	29 1,1,1-Trichloroethane	97	10.071	10.066	(1.007)	202543	26.6862	26.6862
	30 Carbon Tetrachloride	117	10.268	10.273	(0.924)	152078	27.0375	27.0375
	31 1,1-Dichloropropene	75	10.288	10.293	(0.926)	187470	27.3771	27.3770
	32 1,2-Dichloroethane-d4	65	10.583	10.589	(0.952)	264457	51.8775	51.8775
	33 Benzene	78	10.603	10.598	(0.954)	493054	27.1443	27.1443
	34 Methyl tert-Amyl Ether (TAME)	73	10.623	10.618	(0.956)	346157	27.0548	27.0547
	35 1,2-Dichloroethane	62	10.701	10.697	(0.963)	211322	27.3666	27.3666
*	36 1,4-Difluorobenzene	114	11.115	11.121	(1.000)	576645	50.0000	
	37 Trichloroethene	95	11.519	11.515	(1.036)	137596	27.0431	27.0431
	38 Trifluorotoluene	146	11.884	11.900	(1.069)	1304	0.16425	0.1642
	39 1,2-Dichloropropane	63	11.933	11.929	(1.074)	142623	26.8766	26.8766
	40 Dibromomethane	93	12.120	12.127	(1.090)	106115	27.3918	27.3917
	41 Bromodichloromethane	83	12.278	12.284	(1.105)	207160	27.5090	27.5090
	43 Tetramethyl THF	43	12.879	12.876	(1.159)	350721	27.7102	27.7102
	44 cis-1,3-Dichloropropene	75	12.918	12.925	(1.162)	213764	27.2921	27.2921
	45 4-Methyl-2-Pentanone	43	13.066	13.073	(1.175)	178852	25.2779	25.2778
	46 Toluene-d8	98	13.253	13.260	(1.192)	600336	50.0698	50.0698
	47 Toluene	92	13.351	13.349	(1.201)	287020	26.7133	26.7132
	48 trans-1,3-Dichloropropene	75	13.696	13.694	(1.232)	186010	24.6137	24.6136
	49 1,1,2-Trichloroethane	85	13.952	13.960	(1.255)	66903	27.2231	27.2230
	50 Tetrachloroethene	166	14.080	14.078	(0.925)	136310	26.2329	26.2329
	51 2-Hexanone	43	14.199	14.207	(0.933)	133009	25.6241	25.6241
	52 1,3-Dichloropropane	76	14.208	14.207	(0.933)	208577	26.9096	26.9096
	53 Dibromochloromethane	129	14.484	14.483	(0.951)	148269	26.1312	26.1312
	54 1,2-Dibromoethane	107	14.691	14.690	(1.322)	128989	26.9953	26.9952
*	55 Chlorobenzene-d5	117	15.223	15.222	(1.000)	499870	50.0000	
	56 Chlorobenzene	112	15.263	15.261	(1.003)	295125	26.2348	26.2347
	57 Ethylbenzene	91	15.322	15.321	(1.006)	539715	27.2947	27.2946
	58 1,1,1,2-Tetrachloroethane	131	15.351	15.360	(1.008)	112625	26.3369	26.3368
	59 m,p-Xylenes	106	15.460	15.468	(1.016)	386823	52.8126	52.8125
	60 o-Xylene	106	15.972	15.971	(1.049)	196354	26.2499	26.2498
	61 Styrene	104	15.991	16.001	(1.050)	341655	26.7058	26.7058
	62 Bromoform	173	16.297	16.297	(1.071)	106742	26.3511	26.3510
	63 Isopropylbenzene	105	16.376	16.375	(0.912)	457598	24.0553	24.0552
	64 Cyclohexanone	55	16.612	16.612	(0.925)	74423	64.5341	64.5341
	65 Bromofluorobenzene	95	16.632	16.642	(0.926)	268433	52.1349	52.1349
	66 1,1,2,2-Tetrachloroethane	83	16.789	16.789	(0.935)	167232	26.4525	26.4524
	67 Bromobenzene	156	16.839	16.839	(0.938)	146762	26.4946	26.4945
	68 Propylbenzene	91	16.849	16.849	(0.939)	633404	27.0748	27.0747
	69 1,2,3-Trichloropropane	75	16.878	16.878	(0.940)	145479	26.7518	26.7517
	70 2-Chlorotoluene	91	17.026	17.026	(0.948)	426808	27.0763	27.0762
	71 1,3,5-Trimethylbenzene	105	17.036	17.036	(0.949)	414481	27.0110	27.0110
	72 4-Chlorotoluene	91	17.144	17.144	(0.955)	387062	25.9986	25.9985
	73 tert-Butylbenzene	119	17.410	17.411	(0.970)	367580	26.9649	26.9649
	74 1,2,4-Trimethylbenzene	105	17.469	17.470	(0.973)	438630	27.9828	27.9827
	75 sec-Butylbenzene	105	17.656	17.657	(0.984)	559065	27.0701	27.0701
	76 para-Isopropyl Toluene	119	17.794	17.795	(0.991)	469334	27.1801	27.1801
	77 1,3-Dichlorobenzene	146	17.873	17.884	(0.996)	263504	26.1054	26.1053
*	78 1,4-Dichlorobenzene-d4	152	17.952	17.953	(1.000)	273904	50.0000	
	79 1,4-Dichlorobenzene	146	17.981	17.982	(1.002)	261979	26.0360	26.0359
	80 n-Butylbenzene	91	18.267	18.268	(1.018)	490924	27.5246	27.5245
	81 1,2-Dichlorobenzene	146	18.435	18.436	(1.027)	260235	27.0059	27.0058

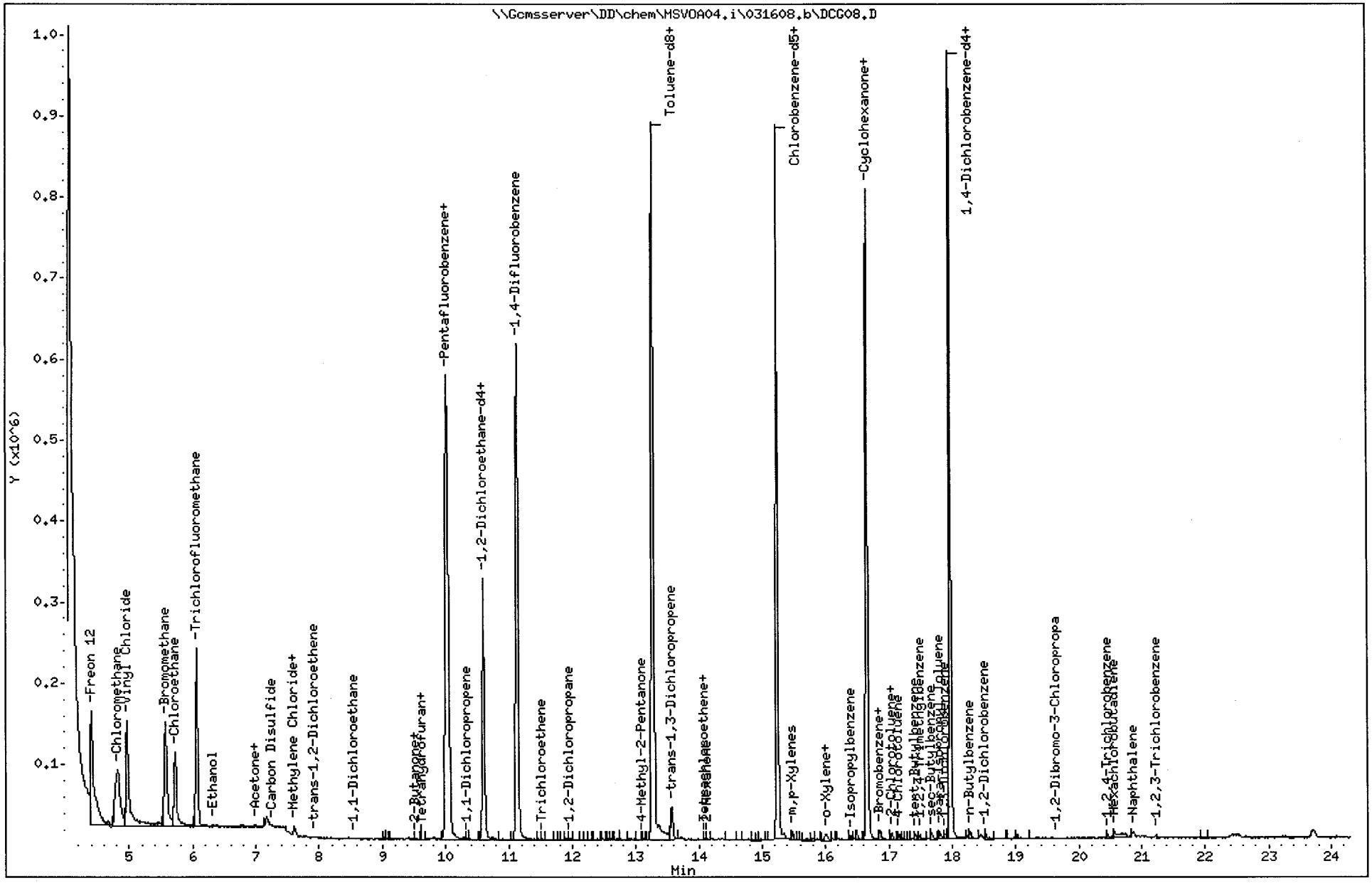
Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031408.b\DCE17.D
Report Date: 17-Mar-2008 13:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
82 1,2-Dibromo-3-Chloropropane	75	19.380	19.382	(1.080)	40323	26.8496	26.8495
83 1,2,4-Trichlorobenzene	180	20.434	20.437	(1.138)	188547	26.7991	26.7990
84 Hexachlorobutadiene	225	20.553	20.555	(1.145)	108719	26.6065	26.6064
85 Naphthalene	128	20.838	20.841	(1.161)	446882	27.6406	27.6406
86 1,2,3-Trichlorobenzene	180	21.203	21.196	(1.181)	178644	27.4497	27.4496

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031608.b\DCG08.D
Date : 16-MAR-2008 17:22
Client ID: DYNA P&T
Instrument: MSVOA04.i
Sample Info: ICV,S8534,10000X
Purge Volume: 5.0
Operator: VOC
Column phase: RTx Volatiles
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031608.b\DCG08.D
Report Date: 17-Mar-2008 13:18

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\031608.b\DCG08.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 17:22 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : ICV,S8534,10000X
Misc Info : ICVGAS25PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\031608.b\826GOX4S.m
Meth Date : 17-Mar-2008 13:12 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 18:54 Cal File: DCE15.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1	Freon 12	85	4.404	4.408	(0.440)	192672	17.2010	17.2010
2	Chloromethane	50	4.818	4.812	(0.481)	204124	22.0389	22.0389
3	Vinyl Chloride	62	4.966	4.960	(0.496)	208144	24.6237	24.6237
4	Bromomethane	94	5.567	5.561	(0.556)	134200	21.9517	21.9517
5	Chloroethane	64	5.714	5.709	(0.571)	117576	26.4594	26.4594
6	Trichlorofluoromethane	101	6.069	6.054	(0.606)	255044	25.8751	25.8751
7	Ethanol	45	6.325	6.350	(0.632)	513	4.60714	4.6071
10	Acetone	43	6.995	6.981	(0.699)	3339	1.06070	1.0607
11	Isopropanol	45	7.084	7.070	(0.708)	1002	1.46473	1.4647
12	Carbon Disulfide	76	7.261	7.247	(0.725)	2232	0.11370	0.1137
13	Methylene Chloride	84	7.606	7.602	(0.760)	5235	0.77993	0.7799
14	tert-Butyl Alcohol (TBA)	59	7.635	7.632	(0.763)	183	0.19306	0.1930
16	trans-1,2-Dichloroethene	96	7.931	7.927	(0.792)	1020	0.18407	0.1840
19	1,1-Dichloroethane	63	8.591	8.578	(0.858)	1347	0.12362	0.1236
21	2-Butanone	43	9.389	9.376	(0.938)	599	0.15824	0.1582
23	cis-1,2-Dichloroethene	96	9.399	9.396	(0.939)	819	0.13584	0.1358
25	Tetrahydrofuran	42	9.783	9.761	(0.977)	1781	0.83312	0.8331
26	Chloroform	83	9.793	9.790	(0.978)	1479	0.13491	0.1349
* 27	Pentafluorobenzene	168	10.009	10.007	(1.000)	436470	50.0000	
28	Dibromofluoromethane	113	10.049	10.037	(1.004)	243263	48.9655	48.9655
30	Carbon Tetrachloride	117	10.009	10.273	(0.899)	44864	7.46673	7.4667
31	1,1-Dichloropropene	75	10.305	10.293	(0.926)	911	0.12454	0.1245

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\031608.b\DCG08.D
Report Date: 17-Mar-2008 13:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
	32 1,2-Dichloroethane-d4	65	10.601	10.589	(0.952)	305057	56.0193	56.0192
	33 Benzene	78	10.610	10.598	(0.953)	2883	0.14858	0.1485
*	36 1,4-Difluorobenzene	114	11.133	11.121	(1.000)	615994	50.0000	
	37 Trichloroethene	95	11.536	11.515	(1.036)	672	0.12364	0.1236
	39 1,2-Dichloropropane	63	11.940	11.929	(1.073)	613	0.10814	0.1081
	45 4-Methyl-2-Pentanone	43	13.093	13.073	(1.176)	869	0.11497	0.1149
	46 Toluene-d8	98	13.270	13.260	(1.192)	662041	51.6891	51.6890
	47 Toluene	92	13.369	13.349	(1.201)	2289	0.19943	0.1994
	48 trans-1,3-Dichloropropene	75	13.576	13.694	(1.219)	1142	0.14146	0.1414
	50 Tetrachloroethene	166	14.088	14.078	(0.924)	888	0.15517	0.1551
	51 2-Hexanone	43	14.216	14.207	(0.933)	672	0.11755	0.1175
	53 Dibromochloromethane	129	14.098	14.483	(0.925)	724	0.11586	0.1158
*	55 Chlorobenzene-d5	117	15.240	15.222	(1.000)	550519	50.0000	
	56 Chlorobenzene	112	15.280	15.261	(1.003)	1890	0.15255	0.1525
	57 Ethylbenzene	91	15.349	15.321	(1.007)	3957	0.18170	0.1817
	59 m,p-Xylenes	106	15.487	15.468	(1.016)	2789	0.34575	0.3457
	60 o-Xylene	106	15.999	15.971	(1.050)	1229	0.14918	0.1491
	61 Styrene	104	16.019	16.001	(1.051)	2251	0.15976	0.1597
	63 Isopropylbenzene	105	16.393	16.375	(0.912)	3553	0.16535	0.1653
	64 Cyclohexanone	55	16.600	16.612	(0.924)	299	0.22953	0.2295
	65 Bromofluorobenzene	95	16.659	16.642	(0.927)	299561	51.5066	51.5066
	67 Bromobenzene	156	16.866	16.839	(0.939)	1118	0.17868	0.1786
	68 Propylbenzene	91	16.876	16.849	(0.939)	6386	0.24166	0.2416
	69 1,2,3-Trichloropropane	75	16.895	16.878	(0.940)	825	0.13430	0.1343
	70 2-Chlorotoluene	91	17.043	17.026	(0.948)	3854	0.21645	0.2164
	71 1,3,5-Trimethylbenzene	105	17.063	17.036	(0.950)	3710	0.21404	0.2140
	72 4-Chlorotoluene	91	17.171	17.144	(0.956)	4082	0.24273	0.2427
	73 tert-Butylbenzene	119	17.427	17.411	(0.970)	3081	0.20009	0.2000
	74 1,2,4-Trimethylbenzene	105	17.496	17.470	(0.974)	3885	0.21942	0.2194
	75 sec-Butylbenzene	105	17.674	17.657	(0.984)	5177	0.22192	0.2219
	76 para-Isopropyl Toluene	119	17.812	17.795	(0.991)	4450	0.22815	0.2281
	77 1,3-Dichlorobenzene	146	17.900	17.884	(0.996)	2532	0.22207	0.2220
*	78 1,4-Dichlorobenzene-d4	152	17.969	17.953	(1.000)	309395	50.0000	
	79 1,4-Dichlorobenzene	146	18.009	17.982	(1.002)	2994	0.26342	0.2634
	80 n-Butylbenzene	91	18.294	18.268	(1.018)	5716	0.28372	0.2837
	81 1,2-Dichlorobenzene	146	18.462	18.436	(1.027)	2366	0.21737	0.2173
	82 1,2-Dibromo-3-Chloropropane	75	19.644	19.382	(1.093)	201	0.11849	0.1184
	83 1,2,4-Trichlorobenzene	180	20.461	20.437	(1.139)	1558	0.19604	0.1960
	84 Hexachlorobutadiene	225	20.570	20.555	(1.145)	1086	0.23529	0.2352
	85 Naphthalene	128	20.865	20.841	(1.161)	6247	0.34207	0.3420
	86 1,2,3-Trichlorobenzene	180	21.230	21.196	(1.181)	1326	0.18038	0.1803

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 MSVOA Soil: EPA 8260B

Inst : MSVOA05
Calnum : 448110396001
Units : ug/L

Name : 826GOX5S
Date : 16-MAR-2008 18:55
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ecg07	448110396007	2.5PPB	16-MAR-2008 18:55	S8668 (200000X), S8400 (200000X), S8549 (5000X)
L2	ecg08	448110396008	5PPB	16-MAR-2008 19:28	S8668 (100000X), S8400 (100000X), S8549 (5000X)
L3	ecg09	448110396009	10PPB	16-MAR-2008 20:01	S8668 (50000X), S8400 (50000X), S8549 (5000X)
L4	ecg10	448110396010	20PPB	16-MAR-2008 20:35	S8668 (25000X), S8400 (25000X), S8549 (5000X)
L5	ecg11	448110396011	50PPB	16-MAR-2008 21:07	S8668 (10000X), S8400 (10000X), S8549 (5000X)
L6	ecg12	448110396012	60PPB	16-MAR-2008 21:40	S8668 (8333X), S8400 (8333X), S8549 (5000X)
L7	ecg13	448110396013	75PPB	16-MAR-2008 22:13	S8668 (6667X), S8400 (6667X), S8549 (5000X)
L8	ecg14	448110396014	100PPB	16-MAR-2008 22:46	S8668 (5000X), S8400 (5000X), S8549 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	1.2727m	0.7162m	1.1869m	1.3225m	1.1619m	1.1124m			QUAD	1.91234	0.57866	0.004337	1.1288	0.999	15	0.05	0.99	
Chloromethane		0.5505m	0.7976m	0.8328m	0.7792m	0.7859m	0.7291m	0.8161m	AVRG		1.32298		0.7559	13	15	0.10	0.99	
Vinyl Chloride	0.8604m	0.4672m	0.8362m	0.8694m	0.8310m	0.8011m			LINR	0.28169	1.21662		0.7775	0.997	15	0.05	0.99	
Bromomethane	0.2512m	0.1625m	0.3695m	0.3969m	0.4269m	0.4082m	0.4404m	0.5279m	QUAD	0.82676	2.74463	-0.01624	0.3729	0.998	15	0.05	0.99	
Chloroethane	0.4483m	0.2370m	0.3877m	0.3827m	0.3783m	0.3771m			QUAD	0.79798	2.43893	0.008096	0.3685	0.999	15	0.05	0.99	
Trichlorofluoromethane	1.1722	0.6551m	1.1297m	1.1988m	1.0295	0.9826	0.9300m		QUAD	1.84327	0.61986	0.006164	1.0140	0.999	15	0.05	0.99	
Acetone		0.2313	0.2184	0.2119	0.1882	0.2101	0.1899	0.1938	AVRG		4.84914		0.2062	8	15	0.05	0.99	
Freon 113		0.5988m	0.4996	0.6031	0.5800	0.6015	0.5490	0.6382	AVRG		1.71979		0.5815	8	15	0.05	0.99	
1,1-Dichloroethene		0.4519	0.4204	0.4527	0.4333	0.4667	0.4067	0.4614	AVRG		2.26300		0.4419	5	15	0.05	0.99	
Methylene Chloride		0.6586	0.6273	0.6038	0.6021	0.5982	0.5910	0.6029	AVRG		1.63402		0.6120	4	15	0.05	0.99	
Carbon Disulfide		1.9151	1.8517	1.9768	1.8000	1.9769	1.7835	2.0256	AVRG		0.52515		1.9042	5	15	0.05	0.99	
MTBE		1.5738	1.5887	1.7420	1.5592	1.7457m	1.6383	1.7539	AVRG		0.60337		1.6574	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5642	0.5405	0.5669	0.4840	0.5417	0.5380	0.5859	AVRG		1.83194		0.5459	6	15	0.05	0.99	
Vinyl Acetate		1.5948	1.7788	1.7469	1.7408	1.8315	1.6658	1.7968	AVRG		0.57588		1.7365	5	15	0.05	0.99	
1,1-Dichloroethane		1.2253	1.2515	1.2437	1.1879	1.2101	1.1834	1.2290	AVRG		0.82055		1.2187	2	15	0.10	0.99	
2-Butanone		0.3987	0.4096	0.4037	0.3923	0.4269	0.3959	0.3866	AVRG		2.48779		0.4020	3	15	0.05	0.99	
2,2-Dichloropropane	0.9262	0.9175	0.8518	0.9145	0.8393	0.8433	0.8172	0.8702	AVRG		1.14611		0.8725	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6071	0.6142	0.6170	0.5979	0.6131	0.6177	0.6248	AVRG		1.63101		0.6131	1	15	0.05	0.99	
Chloroform		1.2510	1.2251	1.2643	1.1910	1.2180	1.1670	1.2366	AVRG		0.81841		1.2219	3	15	0.05	0.99	
Bromochloromethane		0.2773	0.2909	0.3040	0.3064	0.3246	0.3072	0.3309	AVRG		3.26903		0.3059	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.8456	0.8041	0.8435	0.7961	0.8192	0.7618	0.8451	AVRG		1.22477		0.8165	4	15	0.05	0.99	
1,1-Dichloropropene		0.5871	0.5353	0.6049	0.5917	0.5984	0.5621	0.6334	AVRG		1.70194		0.5876	5	15	0.05	0.99	
Carbon Tetrachloride		0.4681	0.4295	0.4999	0.4706	0.4791	0.4552	0.5101	AVRG		2.11316		0.4732	6	15	0.05	0.99	
1,2-Dichloroethane		0.5356	0.5798	0.5861	0.5597	0.5807	0.5741	0.5633	AVRG		1.75913		0.5685	3	15	0.05	0.99	
Benzene		1.5860	1.6452	1.7111	1.5999	1.6624	1.5888	1.6048	AVRG		0.61413		1.6283	3	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.3586	0.3624	0.4150	0.3810	0.4011	0.3762	0.4121	AVRG		2.58655		0.3866	6	15	0.05	0.99	
1,2-Dichloropropane		0.4653	0.4679	0.5043	0.4878	0.4985	0.4855	0.5021	AVRG		2.05207		0.4873	3	15	0.05	0.99	
Bromodichloromethane		0.5650	0.6029	0.6132	0.5985	0.6368	0.6099	0.6160	AVRG		1.64997		0.6061	4	15	0.05	0.99	
Dibromomethane		0.2626	0.2784	0.2969	0.2961	0.3098	0.3038	0.3088	AVRG		3.40419		0.2938	6	15	0.05	0.99	
4-Methyl-2-Pentanone		0.4666	0.4961	0.5512	0.5567	0.6144	0.5566	0.5642	AVRG		1.83921		0.5437	9	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6748	0.6691	0.7305	0.7098	0.7625	0.7209	0.7027	AVRG		1.40839		0.7100	5	15	0.05	0.99	
Toluene		0.7920	0.8034	0.8941	0.8302	0.8522	0.8356	0.8369	AVRG		1.19775		0.8349	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5970	0.5988	0.6674	0.6455	0.6805	0.6506	0.6383	AVRG		1.56315		0.6397	5	15	0.05	0.99	
1,1,2-Trichloroethane		0.1915	0.2045	0.2230	0.2160	0.2251	0.2188	0.2166	AVRG		4.68062		0.2136	6	15	0.05	0.99	
2-Hexanone		0.3840	0.4166	0.4718	0.4333	0.4914	0.4440	0.4735	AVRG		2.24756		0.4449	8	15	0.05	0.99	
1,3-Dichloropropane		0.6954	0.7295	0.7854	0.7286	0.7884	0.7651	0.7827	AVRG		1.32704		0.7536	5	15	0.05	0.99	
Tetrachloroethene		0.4286	0.3835	0.4375	0.3907	0.4334	0.4164	0.4681	AVRG		2.36639		0.4226	7	15	0.05	0.99	
Dibromochloromethane		0.4463	0.4564	0.4835	0.4792	0.5082	0.4976	0.5140	AVRG		2.06780		0.4836	5	15	0.05	0.99	
1,2-Dibromoethane		0.3028	0.3223	0.3485	0.3452	0.3825	0.3627	0.3594	AVRG		2.88847		0.3462	8	15	0.05	0.99	
Chlorobenzene		0.9558	0.9378	1.0152	0.9527	0.9576	0.9749	1.0149	AVRG		1.02807		0.9727	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3682	0.3929	0.4126	0.3789	0.4138	0.4145	0.4323	AVRG		2.48831		0.4019	6	15	0.05	0.99	
Ethylbenzene		1.8311	1.7544	1.8595	1.7468	1.8619	1.7695	1.8970	AVRG		0.55031		1.8172	3	15	0.05	0.99	
m,p-Xylenes	0.5948	0.5456	0.5703	0.5953	0.5549	0.6073	0.5892	0.6345	AVRG		1.70501		0.5865	5	15	0.05	0.99	
o-Xylene		0.5361	0.5852	0.6133	0.5958	0.6221	0.6158	0.6151	AVRG		1.67328		0.5976	5	15	0.05	0.99	
Styrene		0.9295	0.9975	1.0861	1.0295	1.0847	1.0707	1.1142	AVRG		0.95731		1.0446	6	15	0.05	0.99	
Bromoform		0.3181	0.3234	0.3634	0.3570	0.3750	0.3795	0.3891	AVRG		2.79382		0.3579	8	15	0.10	0.99	
Isopropylbenzene		2.6228	2.5299	2.7699	2.5123	2.7939	2.6557	2.8386	AVRG		0.37387		2.6747	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9906	1.0825	1.1095	1.0149	1.1359	1.0705	1.0874	AVRG		0.93442		1.0702	5	15	0.30	0.99	
1,2,3-Trichloropropane		0.7900m	0.8284m	0.8488	0.7615m	0.8495	0.8239	0.8159	AVRG		1.22423		0.8168	4	15	0.05	0.99	
Propylbenzene		3.5427	3.3422	3.5901	3.4692	3.7087	3.4907	3.6336	AVRG		0.28252		3.5396	3	15	0.05	0.99	
Bromobenzene		0.8092	0.8207	0.8459	0.8402	0.9053	0.8810	0.8886	AVRG		1.16847		0.8558	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		1.9268	2.0064	2.0989	2.0582	2.1422	2.1258	2.1759	AVRG		0.48162		2.0763	4	15	0.05	0.99	
2-Chlorotoluene		2.2390	2.3026	2.4061	2.3056	2.3293	2.3346	2.3675	AVRG		0.42985		2.3264	2	15	0.05	0.99	
4-Chlorotoluene		2.0470	2.0358	2.1924	2.0270	2.1836	2.0589	2.0944	AVRG		0.47817		2.0913	3	15	0.05	0.99	
tert-Butylbenzene		1.6700	1.6700	1.8246	1.7267	1.8213	1.7824	1.9381	AVRG		0.56301		1.7762	5	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.6722	1.7474	2.0390	1.9566	2.0567	2.0713	2.1369	AVRG		0.51169		1.9543	9	15	0.05	0.99	
sec-Butylbenzene		2.7505	2.6431	2.9494	2.7717	2.8930	2.6834	3.0339	AVRG		0.35488		2.8179	5	15	0.05	0.99	
para-Isopropyl Toluene		1.9230	1.9981	2.1022	2.1055	2.1975	2.1117	2.2842	AVRG		0.47547		2.1032	6	15	0.05	0.99	
1,3-Dichlorobenzene		1.3423	1.3696	1.4246	1.4222	1.4598	1.4239	1.5379	AVRG		0.70137		1.4258	4	15	0.05	0.99	
1,4-Dichlorobenzene		1.3830	1.3995	1.5122	1.4456	1.5321	1.4914	1.5503	AVRG		0.67868		1.4734	4	15	0.05	0.99	
n-Butylbenzene		1.8220	1.8055	2.0882	2.1157	2.3088	2.2043	2.3966	AVRG		0.47486		2.1059	11	15	0.05	0.99	
1,2-Dichlorobenzene		1.2724	1.3653	1.4239	1.3718	1.4591	1.4061	1.4808	AVRG		0.71579		1.3971	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1537	0.1698	0.1853	0.1729	0.1922	0.1773	0.1842	AVRG		5.66585		0.1765	7	15	0.05	0.99	
1,2,4-Trichlorobenzene	0.5264	0.5672	0.5665	0.6607	0.7240	0.8335			QUAD	0.05045	1.74232	-0.01071	0.6464	0.999	15	0.05	0.99	
Hexachlorobutadiene		0.5578	0.5123	0.5462	0.5467	0.5904	0.5969	0.6622	AVRG		1.74452		0.5732	8	15	0.05	0.99	
Naphthalene	0.7219	0.8332	0.9070	1.2389	1.3336	1.5852			QUAD	0.92840	0.92510	-0.00314	1.1033	0.998	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene	0.5176	0.5472	0.5916	0.6876	0.7544	0.8473			QUAD	0.39405	1.61962	-0.00865	0.6576	0.999	15	0.05	0.99	
Dibromofluoromethane					0.6048				AVRG		1.65334		0.6048	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.4605				AVRG		2.17144		0.4605	0	15	0.05	0.99	
Trifluorotoluene	0.5511	0.4779	0.4569	0.5769	0.5385	0.5656	0.5350	0.6221	AVRG		1.85017		0.5405	10	15	0.05	0.99	
Toluene-d8					1.0968				AVRG		0.91177		1.0968	0	15	0.05	0.99	
Bromofluorobenzene					0.9595				AVRG		1.04216		0.9595	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12	2.500	52	5.000	-19	10.00	-6	20.00	1	50.00	0	60.00	0				
Chloromethane			5.000	-27	10.00	6	20.00	10	50.00	3	60.00	4	75.00	-4	100.0	8
Vinyl Chloride	2.500	16	5.000	-38	10.00	5	20.00	7	50.00	2	60.00	-2				
Bromomethane	2.500	2	5.000	-39	10.00	7	20.00	8	50.00	4	60.00	-3	75.00	-2	100.0	0
Chloroethane	2.500	42	5.000	-26	10.00	4	20.00	0	50.00	0	60.00	0				
Trichlorofluoromethane	2.500	49	5.000	-21	10.00	-4	20.00	1	50.00	0	60.00	0	75.00	0		
Acetone			5.000	12	10.00	6	20.00	3	50.00	-9	60.00	2	75.00	-8	100.0	-6
Freon 113			5.000	3	10.00	-14	20.00	4	50.00	0	60.00	3	75.00	-6	100.0	10
1,1-Dichloroethene			5.000	2	10.00	-5	20.00	2	50.00	-2	60.00	6	75.00	-8	100.0	4
Methylene Chloride			5.000	8	10.00	3	20.00	-1	50.00	-2	60.00	-2	75.00	-3	100.0	-1
Carbon Disulfide			5.000	1	10.00	-3	20.00	4	50.00	-5	60.00	4	75.00	-6	100.0	6
MTBE			5.000	-5	10.00	-4	20.00	5	50.00	-6	60.00	5	75.00	-1	100.0	6
trans-1,2-Dichloroethene			5.000	3	10.00	-1	20.00	4	50.00	-11	60.00	-1	75.00	-1	100.0	7
Vinyl Acetate			5.000	-8	10.00	2	20.00	1	50.00	0	60.00	5	75.00	-4	100.0	3
1,1-Dichloroethane			5.000	1	10.00	3	20.00	2	50.00	-3	60.00	-1	75.00	-3	100.0	1
2-Butanone			5.000	-1	10.00	2	20.00	0	50.00	-2	60.00	6	75.00	-2	100.0	-4
2,2-Dichloropropane	2.500	6	5.000	5	10.00	-2	20.00	5	50.00	-4	60.00	-3	75.00	-6	100.0	0
cis-1,2-Dichloroethene			5.000	-1	10.00	0	20.00	1	50.00	-2	60.00	0	75.00	1	100.0	2
Chloroform			5.000	2	10.00	0	20.00	3	50.00	-3	60.00	0	75.00	-4	100.0	1
Bromochloromethane			5.000	-9	10.00	-5	20.00	-1	50.00	0	60.00	6	75.00	0	100.0	8
1,1,1-Trichloroethane			5.000	4	10.00	-2	20.00	3	50.00	-2	60.00	0	75.00	-7	100.0	4
1,1-Dichloropropene			5.000	0	10.00	-9	20.00	3	50.00	1	60.00	2	75.00	-4	100.0	8
Carbon Tetrachloride			5.000	-1	10.00	-9	20.00	6	50.00	-1	60.00	1	75.00	-4	100.0	8
1,2-Dichloroethane			5.000	-6	10.00	2	20.00	3	50.00	-2	60.00	2	75.00	1	100.0	-1
Benzene			5.000	-3	10.00	1	20.00	5	50.00	-2	60.00	2	75.00	-2	100.0	-1
Trichloroethene			5.000	-7	10.00	-6	20.00	7	50.00	-1	60.00	4	75.00	-3	100.0	7
1,2-Dichloropropane			5.000	-5	10.00	-4	20.00	3	50.00	0	60.00	2	75.00	0	100.0	3
Bromodichloromethane			5.000	-7	10.00	-1	20.00	1	50.00	-1	60.00	5	75.00	1	100.0	2
Dibromomethane			5.000	-11	10.00	-5	20.00	1	50.00	1	60.00	5	75.00	3	100.0	5
4-Methyl-2-Pentanone			5.000	-14	10.00	-9	20.00	1	50.00	2	60.00	13	75.00	2	100.0	4
cis-1,3-Dichloropropene			5.000	-5	10.00	-6	20.00	3	50.00	0	60.00	7	75.00	2	100.0	-1
Toluene			5.000	-5	10.00	-4	20.00	7	50.00	-1	60.00	2	75.00	0	100.0	0
trans-1,3-Dichloropropene			5.000	-7	10.00	-6	20.00	4	50.00	1	60.00	6	75.00	2	100.0	0
1,1,2-Trichloroethane			5.000	-10	10.00	-4	20.00	4	50.00	1	60.00	5	75.00	2	100.0	1
2-Hexanone			5.000	-14	10.00	-6	20.00	6	50.00	-3	60.00	10	75.00	0	100.0	6
1,3-Dichloropropane			5.000	-8	10.00	-3	20.00	4	50.00	-3	60.00	5	75.00	2	100.0	4
Tetrachloroethene			5.000	1	10.00	-9	20.00	4	50.00	-8	60.00	3	75.00	-1	100.0	11
Dibromochloromethane			5.000	-8	10.00	-6	20.00	0	50.00	-1	60.00	5	75.00	3	100.0	6
1,2-Dibromoethane			5.000	-13	10.00	-7	20.00	1	50.00	0	60.00	10	75.00	5	100.0	4
Chlorobenzene			5.000	-2	10.00	-4	20.00	4	50.00	-2	60.00	-2	75.00	0	100.0	4
1,1,1,2-Tetrachloroethane			5.000	-8	10.00	-2	20.00	3	50.00	-6	60.00	3	75.00	3	100.0	8
Ethylbenzene			5.000	1	10.00	-3	20.00	2	50.00	-4	60.00	2	75.00	-3	100.0	4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	1	10.00	-7	20.00	-3	40.00	2	100.0	-5	120.0	4	150.0	0	200.0	8
o-Xylene			5.000	-10	10.00	-2	20.00	3	50.00	0	60.00	4	75.00	3	100.0	3
Styrene			5.000	-11	10.00	-5	20.00	4	50.00	-1	60.00	4	75.00	3	100.0	7
Bromoform			5.000	-11	10.00	-10	20.00	2	50.00	0	60.00	5	75.00	6	100.0	9
Isopropylbenzene			5.000	-2	10.00	-5	20.00	4	50.00	-6	60.00	4	75.00	-1	100.0	6
1,1,2,2-Tetrachloroethane			5.000	-7	10.00	1	20.00	4	50.00	-5	60.00	6	75.00	0	100.0	2
1,2,3-Trichloropropane			5.000	-3	10.00	1	20.00	4	50.00	-7	60.00	4	75.00	1	100.0	0
Propylbenzene			5.000	0	10.00	-6	20.00	1	50.00	-2	60.00	5	75.00	-1	100.0	3
Bromobenzene			5.000	-5	10.00	-4	20.00	-1	50.00	-2	60.00	6	75.00	3	100.0	4
1,3,5-Trimethylbenzene			5.000	-7	10.00	-3	20.00	1	50.00	-1	60.00	3	75.00	2	100.0	5
2-Chlorotoluene			5.000	-4	10.00	-1	20.00	3	50.00	-1	60.00	0	75.00	0	100.0	2
4-Chlorotoluene			5.000	-2	10.00	-3	20.00	5	50.00	-3	60.00	4	75.00	-2	100.0	0
tert-Butylbenzene			5.000	-6	10.00	-6	20.00	3	50.00	-3	60.00	3	75.00	0	100.0	9
1,2,4-Trimethylbenzene			5.000	-14	10.00	-11	20.00	4	50.00	0	60.00	5	75.00	6	100.0	9
sec-Butylbenzene			5.000	-2	10.00	-6	20.00	5	50.00	-2	60.00	3	75.00	-5	100.0	8
para-Isopropyl Toluene			5.000	-9	10.00	-5	20.00	0	50.00	0	60.00	4	75.00	0	100.0	9
1,3-Dichlorobenzene			5.000	-6	10.00	-4	20.00	0	50.00	0	60.00	2	75.00	0	100.0	8
1,4-Dichlorobenzene			5.000	-6	10.00	-5	20.00	3	50.00	-2	60.00	4	75.00	1	100.0	5
n-Butylbenzene			5.000	-13	10.00	-14	20.00	-1	50.00	0	60.00	10	75.00	5	100.0	14
1,2-Dichlorobenzene			5.000	-9	10.00	-2	20.00	2	50.00	-2	60.00	4	75.00	1	100.0	6
1,2-Dibromo-3-Chloropropane			5.000	-13	10.00	-4	20.00	5	50.00	-2	60.00	9	75.00	0	100.0	4
1,2,4-Trichlorobenzene	2.500	-7	5.000	-2	10.00	-4	20.00	6	50.00	-2	60.00	1				
Hexachlorobutadiene			5.000	-3	10.00	-11	20.00	-5	50.00	-5	60.00	3	75.00	4	100.0	16
Naphthalene	2.500	4	5.000	-5	10.00	-9	20.00	10	50.00	-3	60.00	1				
1,2,3-Trichlorobenzene	2.500	-1	5.000	-5	10.00	-3	20.00	5	50.00	-2	60.00	1				
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene	2.500	2	5.000	-12	10.00	-15	20.00	7	50.00	0	60.00	5	75.00	-1	100.0	15
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 03/17/08 Reviewer: LW Date: 03/18/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Name : 826GOX5S
Calnum : 448110396001 Cal Date : 16-MAR-2008 Type : SOIL

ICV 448110396016 (ecg16 16-MAR-2008) stds: S8648 (10000X), S8538 (10000X), S8549 (5000X)
ICV 448111347004 (ech04 17-MAR-2008) stds: S8534 (10000X), S8549 (5000X)

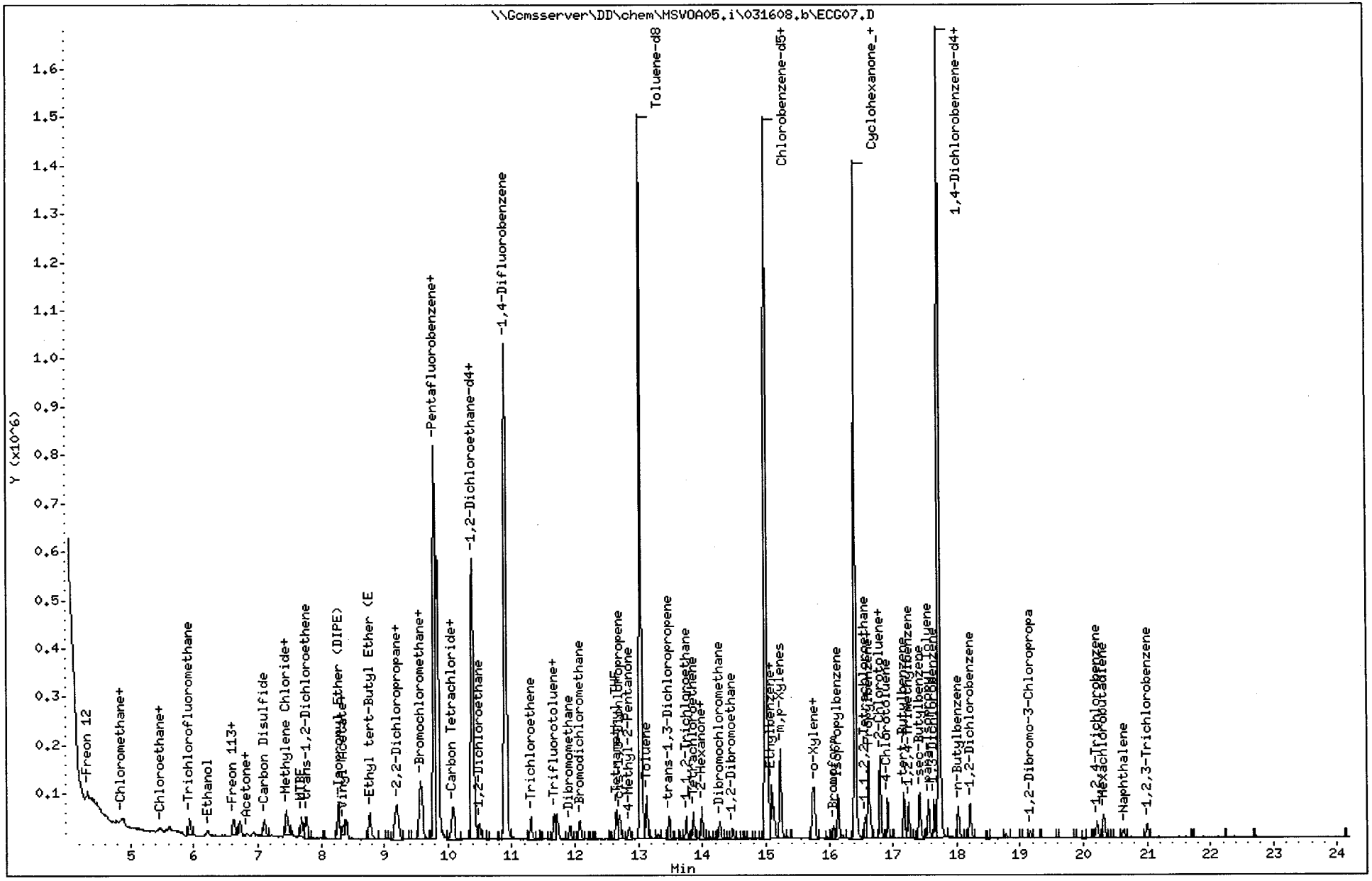
Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	448111347004	17-MAR-2008	1.1288	0.6937	25.00	13.25	ug/L	**-47**	20	v- *** m
Chloromethane	448111347004	17-MAR-2008	0.7559	0.7405	25.00	24.49	ug/L	-2	20	m
Vinyl Chloride	448111347004	17-MAR-2008	0.7775	0.7110	25.00	21.91	ug/L	-12	20	m
Bromomethane	448111347004	17-MAR-2008	0.3729	0.3580	25.00	24.09	ug/L	-4	20	m
Chloroethane	448111347004	17-MAR-2008	0.3685	0.3397	25.00	22.10	ug/L	-12	20	m
Trichlorofluoromethane	448111347004	17-MAR-2008	1.0140	0.9405	25.00	19.82	ug/L	**-21**	20	v- *** m
Acetone	448110396016	16-MAR-2008	0.2062	0.2113	25.00	25.62	ug/L	2	30	
Freon 113	448110396016	16-MAR-2008	0.5815	0.5877	25.00	25.27	ug/L	1	20	
1,1-Dichloroethene	448110396016	16-MAR-2008	0.4419	0.4979	25.00	28.17	ug/L	13	20	
Methylene Chloride	448110396016	16-MAR-2008	0.6120	0.6639	25.00	27.12	ug/L	8	20	
Carbon Disulfide	448110396016	16-MAR-2008	1.9042	1.8458	25.00	24.23	ug/L	-3	20	
MTBE	448110396016	16-MAR-2008	1.6574	1.7273	25.00	26.05	ug/L	4	20	
trans-1,2-Dichloroethene	448110396016	16-MAR-2008	0.5459	0.5975	25.00	27.37	ug/L	9	20	
Vinyl Acetate	448110396016	16-MAR-2008	1.7365	1.4632	25.00	21.07	ug/L	-16	30	
1,1-Dichloroethane	448110396016	16-MAR-2008	1.2187	1.3367	25.00	27.42	ug/L	10	20	
2-Butanone	448110396016	16-MAR-2008	0.4020	0.3979	25.00	24.75	ug/L	-1	30	
2,2-Dichloropropane	448110396016	16-MAR-2008	0.8725	0.7890	25.00	22.61	ug/L	-10	20	
cis-1,2-Dichloroethene	448110396016	16-MAR-2008	0.6131	0.6946	25.00	28.32	ug/L	13	20	
Chloroform	448110396016	16-MAR-2008	1.2219	1.2941	25.00	26.48	ug/L	6	20	
Bromochloromethane	448110396016	16-MAR-2008	0.3059	0.3278	25.00	26.79	ug/L	7	20	
1,1,1-Trichloroethane	448110396016	16-MAR-2008	0.8165	0.8544	25.00	26.16	ug/L	5	20	
1,1-Dichloropropene	448110396016	16-MAR-2008	0.5876	0.6785	25.00	28.87	ug/L	15	20	
Carbon Tetrachloride	448110396016	16-MAR-2008	0.4732	0.5440	25.00	28.74	ug/L	15	20	
1,2-Dichloroethane	448110396016	16-MAR-2008	0.5685	0.6220	25.00	27.35	ug/L	9	20	
Benzene	448110396016	16-MAR-2008	1.6283	1.9272	25.00	29.59	ug/L	18	20	
Trichloroethene	448110396016	16-MAR-2008	0.3866	0.4607	25.00	29.79	ug/L	19	20	
1,2-Dichloropropane	448110396016	16-MAR-2008	0.4873	0.5232	25.00	26.84	ug/L	7	20	
Bromodichloromethane	448110396016	16-MAR-2008	0.6061	0.6835	25.00	28.19	ug/L	13	20	
Dibromomethane	448110396016	16-MAR-2008	0.2938	0.3203	25.00	27.26	ug/L	9	20	
4-Methyl-2-Pentanone	448110396016	16-MAR-2008	0.5437	0.5634	25.00	25.91	ug/L	4	30	
cis-1,3-Dichloropropene	448110396016	16-MAR-2008	0.7100	0.7379	25.00	25.98	ug/L	4	20	
Toluene	448110396016	16-MAR-2008	0.8349	0.9359	25.00	28.03	ug/L	12	20	
trans-1,3-Dichloropropene	448110396016	16-MAR-2008	0.6397	0.5808	25.00	22.70	ug/L	-9	20	
1,1,2-Trichloroethane	448110396016	16-MAR-2008	0.2136	0.2280	25.00	26.68	ug/L	7	20	
2-Hexanone	448110396016	16-MAR-2008	0.4449	0.4582	25.00	25.75	ug/L	3	30	
1,3-Dichloropropane	448110396016	16-MAR-2008	0.7536	0.8245	25.00	27.35	ug/L	9	20	
Tetrachloroethene	448110396016	16-MAR-2008	0.4226	0.4781	25.00	28.28	ug/L	13	20	
Dibromochloromethane	448110396016	16-MAR-2008	0.4836	0.5305	25.00	27.43	ug/L	10	20	
1,2-Dibromoethane	448110396016	16-MAR-2008	0.3462	0.3799	25.00	27.43	ug/L	10	20	
Chlorobenzene	448110396016	16-MAR-2008	0.9727	1.0629	25.00	27.32	ug/L	9	20	
1,1,1,2-Tetrachloroethane	448110396016	16-MAR-2008	0.4019	0.4331	25.00	26.94	ug/L	8	20	
Ethylbenzene	448110396016	16-MAR-2008	1.8172	1.9603	25.00	26.97	ug/L	8	20	
m,p-Xylenes	448110396016	16-MAR-2008	0.5865	0.6223	50.00	53.05	ug/L	6	20	
o-Xylene	448110396016	16-MAR-2008	0.5976	0.6495	25.00	27.17	ug/L	9	20	
Styrene	448110396016	16-MAR-2008	1.0446	1.1691	25.00	27.98	ug/L	12	20	
Bromoform	448110396016	16-MAR-2008	0.3579	0.3774	25.00	26.36	ug/L	5	20	
Isopropylbenzene	448110396016	16-MAR-2008	2.6747	2.6455	25.00	24.73	ug/L	-1	20	

448110396001 ICVs

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	448110396016	16-MAR-2008	1.0702	1.1256	25.00	26.29	ug/L	5	20	
1,2,3-Trichloropropane	448110396016	16-MAR-2008	0.8168	0.9112	25.00	27.89	ug/L	12	20	m
Propylbenzene	448110396016	16-MAR-2008	3.5396	3.8456	25.00	27.16	ug/L	9	20	
Bromobenzene	448110396016	16-MAR-2008	0.8558	0.9254	25.00	27.03	ug/L	8	20	
1,3,5-Trimethylbenzene	448110396016	16-MAR-2008	2.0763	2.3227	25.00	27.97	ug/L	12	20	
2-Chlorotoluene	448110396016	16-MAR-2008	2.3264	2.5845	25.00	27.77	ug/L	11	20	
4-Chlorotoluene	448110396016	16-MAR-2008	2.0913	2.2112	25.00	26.43	ug/L	6	20	
tert-Butylbenzene	448110396016	16-MAR-2008	1.7762	1.9100	25.00	26.88	ug/L	8	20	
1,2,4-Trimethylbenzene	448110396016	16-MAR-2008	1.9543	2.1870	25.00	27.98	ug/L	12	20	
sec-Butylbenzene	448110396016	16-MAR-2008	2.8179	3.2600	25.00	28.92	ug/L	16	20	
para-Isopropyl Toluene	448110396016	16-MAR-2008	2.1032	2.2562	25.00	26.82	ug/L	7	20	
1,3-Dichlorobenzene	448110396016	16-MAR-2008	1.4258	1.4312	25.00	25.10	ug/L	0	20	
1,4-Dichlorobenzene	448110396016	16-MAR-2008	1.4734	1.4899	25.00	25.28	ug/L	1	20	
n-Butylbenzene	448110396016	16-MAR-2008	2.1059	2.3491	25.00	27.89	ug/L	12	20	
1,2-Dichlorobenzene	448110396016	16-MAR-2008	1.3971	1.4489	25.00	25.93	ug/L	4	20	
1,2-Dibromo-3-Chloropropane	448110396016	16-MAR-2008	0.1765	0.1798	25.00	25.47	ug/L	2	20	
1,2,4-Trichlorobenzene	448110396016	16-MAR-2008	0.6464	0.6723	25.00	26.31	ug/L	5	20	
Hexachlorobutadiene	448110396016	16-MAR-2008	0.5732	0.6110	25.00	26.65	ug/L	7	20	
Naphthalene	448110396016	16-MAR-2008	1.1033	1.3591	25.00	28.74	ug/L	15	20	
1,2,3-Trichlorobenzene	448110396016	16-MAR-2008	0.6576	0.7154	25.00	26.60	ug/L	6	20	

-=low bias m=manual integration v=ICV

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECC07.D
Date : 16-MAR-2008 18:55
Client ID: DYNA P&T
Instrument: MSVOA05.i
Sample Info: ICAL,S8668,0.0005/100,S8400,0.0005/100
Purge Volume: 5.0
Operator: VOC
Column phase: RTX 624
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG07.D
Report Date: 17-Mar-2008 08:43

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG07.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 18:55 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICAL,S8668,0.0005/100,S8400,0.0005/100
Misc Info : 2.5PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\826GOX5S.m
Meth Date : 17-Mar-2008 08:43 Erik Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 7 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.325	4.339	(0.442)	44125	2.50000	3.7973(M)
2 Chloromethane	50	4.858	4.802	(0.496)	16830	2.50000	1.6054
3 Vinyl Chloride	62	4.877	4.891	(0.498)	29830	2.50000	2.8985(M)
4 Bromomethane	94	5.469	5.483	(0.558)	8709	2.50000	1.6087(M)
5 Chloroethane	64	5.616	5.620	(0.573)	15543	2.50000	3.0881(M)
6 Trichlorofluoromethane	101	5.932	5.955	(0.606)	40640	2.50000	2.8952
7 Ethanol	45	6.218	6.231	(0.635)	21856	250.000	201.0401(A)
8 Freon 113	101	6.622	6.646	(0.676)	21744	2.50000	2.6963
9 1,1-Dichloroethene	96	6.720	6.744	(0.686)	16047	2.50000	2.6184
10 Acetone	43	6.829	6.852	(0.697)	11552	2.50000	4.1905
11 Isopropanol	45	6.927	6.941	(0.707)	15434	25.0000	23.5040(A)
12 Carbon Disulfide	76	7.105	7.128	(0.725)	64899	2.50000	2.4574
13 Methylene Chloride	84	7.449	7.463	(0.761)	28620	2.50000	3.3720
14 tert-Butyl Alcohol (TBA)	59	7.469	7.483	(0.763)	22769	25.0000	23.7239(A)
15 MTBE	73	7.696	7.700	(0.786)	54970	2.50000	2.3915
16 trans-1,2-Dichloroethene	96	7.765	7.779	(0.793)	21551	2.50000	2.8467
17 Isopropyl Ether (DIPE)	45	8.277	8.281	(0.845)	93422	2.50000	2.5163(A)
18 Vinyl Acetate	43	8.346	8.359	(0.852)	60656	2.50000	2.5186
19 1,1-Dichloroethane	63	8.396	8.409	(0.857)	46277	2.50000	2.7380
20 Ethyl tert-Butyl Ether (ETBE)	59	8.770	8.784	(0.895)	66218	2.50000	2.3512(A)
21 2,2-Dichloropropane	77	9.174	9.188	(0.937)	32112	2.50000	2.6537
22 2-Butanone	43	9.184	9.198	(0.938)	13973	2.50000	2.5065

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG07.D
Report Date: 17-Mar-2008 08:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.204	9.218	(0.940)	21499	2.50000	2.5283
	24 Bromochloromethane	128	9.558	9.573	(0.976)	9145	2.50000	2.1556
	25 Tetrahydrofuran	42	9.568	9.572	(0.977)	74315	25.0000	23.8437(A)
	26 Chloroform	83	9.598	9.612	(0.980)	45077	2.50000	2.6601
*	27 Pentafluorobenzene	168	9.795	9.799	(1.000)	693426	50.0000	
	28 Dibromofluoromethane	113	9.844	9.848	(1.005)	418199	50.0000	49.8558
	29 1,1,1-Trichloroethane	97	9.864	9.878	(1.007)	29030	2.50000	2.5637
	30 Carbon Tetrachloride	117	10.061	10.075	(0.922)	25648	2.50000	2.6454
	31 1,1-Dichloropropene	75	10.081	10.094	(0.924)	30293	2.50000	2.5165
	32 1,2-Dichloroethane-d4	65	10.386	10.400	(0.952)	453960	50.0000	48.1147
	33 Benzene	78	10.396	10.400	(0.953)	85526	2.50000	2.5637
	34 Methyl tert-Amyl Ether (TAME)	73	10.406	10.420	(0.954)	52672	2.50000	2.3239(A)
	35 1,2-Dichloroethane	62	10.495	10.508	(0.962)	30826	2.50000	2.6468
*	36 1,4-Difluorobenzene	114	10.909	10.912	(1.000)	1024370	50.0000	
	37 Trichloroethene	95	11.303	11.307	(1.036)	19775	2.50000	2.4966
	38 Trifluorotoluene	146	11.667	11.681	(1.070)	28226	2.50000	2.5490(A)
	39 1,2-Dichloropropane	63	11.717	11.730	(1.074)	24247	2.50000	2.4286
	40 Dibromomethane	93	11.914	11.928	(1.092)	14782	2.50000	2.4561
	41 Bromodichloromethane	83	12.072	12.086	(1.107)	32706	2.50000	2.6339
	42 Tetramethyl THF	43	12.653	12.657	(1.160)	52996	2.50000	2.4692(A)
	43 cis-1,3-Dichloropropene	75	12.712	12.716	(1.165)	35123	2.50000	2.4145
	44 4-Methyl-2-Pentanone	43	12.850	12.854	(1.178)	25211	2.50000	2.2632
	45 Toluene-d8	98	13.037	13.041	(1.195)	1125093	2.50000	50.0709
	46 Toluene	92	13.136	13.140	(1.204)	46215	2.50000	2.7018
	47 trans-1,3-Dichloropropene	75	13.481	13.485	(1.236)	29868	2.50000	2.2788
	48 1,1,2-Trichloroethane	85	13.757	13.751	(1.261)	10799	2.50000	2.4671
	49 Tetrachloroethene	166	13.865	13.869	(0.924)	19307	2.50000	2.5775
	50 2-Hexanone	43	13.983	13.977	(0.932)	16584	2.50000	2.1028
	51 1,3-Dichloropropane	76	13.993	13.998	(0.932)	32634	2.50000	2.4432
	52 Dibromochloromethane	129	14.279	14.283	(0.951)	20620	2.50000	2.4055
	53 1,2-Dibromoethane	107	14.476	14.481	(1.327)	16764	2.50000	2.3635
*	54 Chlorobenzene-d5	117	15.008	15.012	(1.000)	886255	50.0000	
	55 Chlorobenzene	112	15.048	15.052	(1.003)	44836	2.50000	2.6005
	56 Ethylbenzene	91	15.097	15.101	(1.006)	85764	2.50000	2.6627
	57 1,1,1,2-Tetrachloroethane	131	15.127	15.131	(1.008)	17608	2.50000	2.4718
	58 m,p-Xylenes	106	15.235	15.239	(1.015)	52716	5.00000	5.0708
	59 o-Xylene	106	15.748	15.742	(1.049)	25031	2.50000	2.3629
	60 Styrene	104	15.767	15.772	(1.051)	42771	2.50000	2.3100
	61 Bromoform	173	16.083	16.077	(1.072)	14466	2.50000	2.2801
	62 Isopropylbenzene	105	16.142	16.146	(0.911)	62454	2.50000	2.3099
	63 Cyclohexanone_	55	16.398	16.402	(0.925)	37113	25.0000	27.4460(A)
	64 Bromofluorobenzene	95	16.418	16.421	(0.926)	490195	50.0000	50.5386
	65 1,1,2,2-Tetrachloroethane	83	16.566	16.569	(0.934)	26629	2.50000	2.4616
	66 Propylbenzene	91	16.625	16.619	(0.938)	89564	2.50000	2.5032
	67 Bromobenzene	156	16.625	16.619	(0.938)	20743	2.50000	2.3977
	68 1,2,3-Trichloropropane	75	16.654	16.658	(0.939)	24321	2.50000	2.9455
	69 2-Chlorotoluene	91	16.802	16.806	(0.948)	59684	2.50000	2.5380
	70 1,3,5-Trimethylbenzene	105	16.812	16.806	(0.948)	49761	2.50000	2.3709
	71 4-Chlorotoluene	91	16.920	16.924	(0.954)	51938	2.50000	2.4569
	72 tert-Butylbenzene	119	17.177	17.180	(0.969)	41218	2.50000	2.2957
	73 1,2,4-Trimethylbenzene	105	17.246	17.239	(0.973)	43121	2.50000	2.1828
	74 sec-Butylbenzene	105	17.423	17.417	(0.983)	71422	2.50000	2.5074
	75 para-Isopropyl Toluene	119	17.561	17.565	(0.991)	48297	2.50000	2.2717
	76 1,3-Dichlorobenzene	146	17.650	17.653	(0.996)	35101	2.50000	2.4355

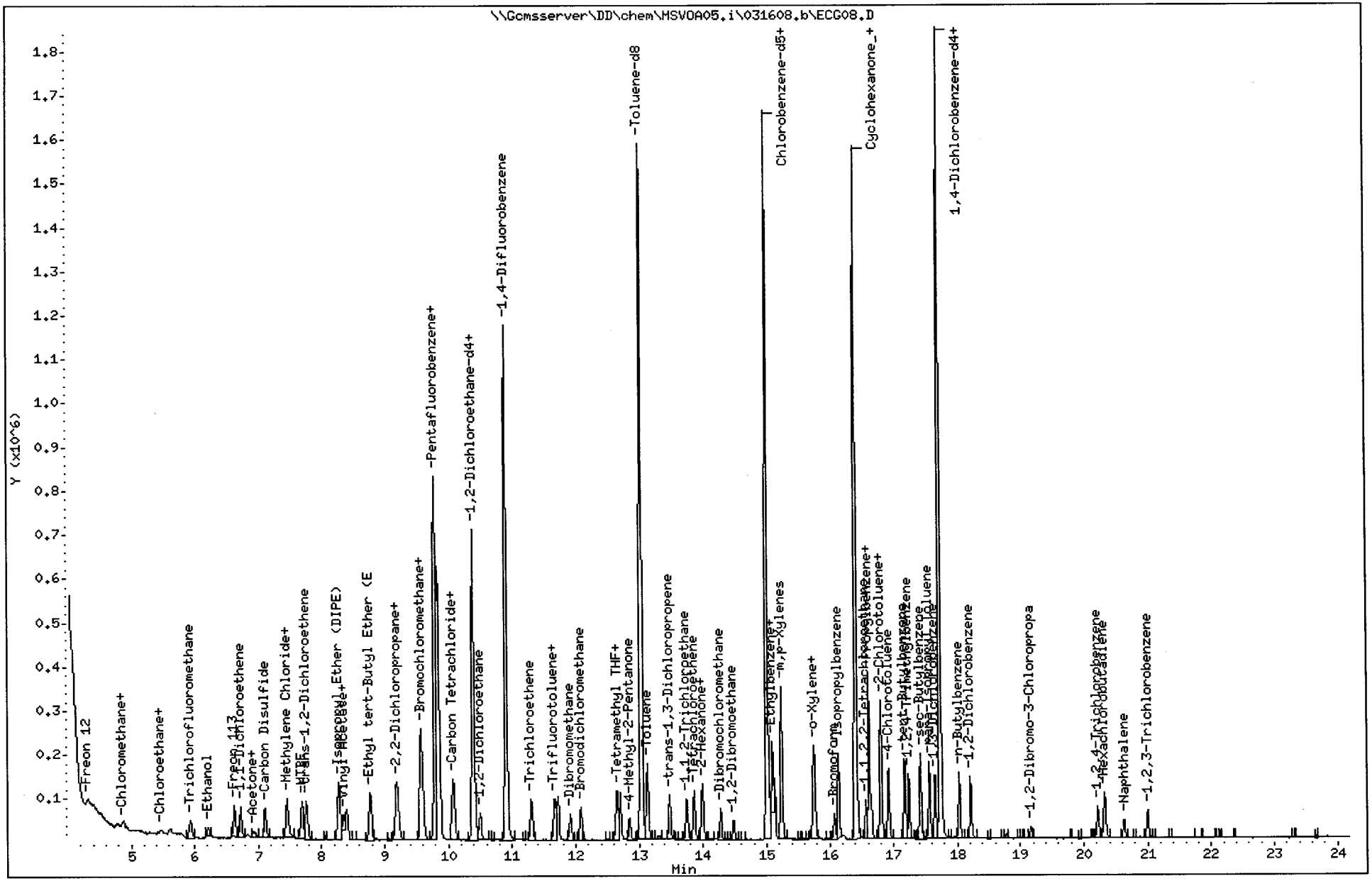
Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG07.D
Report Date: 17-Mar-2008 08:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 77 1,4-Dichlorobenzene-d4	152	17.728	17.732	(1.000)	505415	50.0000	
78 1,4-Dichlorobenzene	146	17.758	17.752	(1.002)	36274	2.50000	2.4354
79 n-Butylbenzene	91	18.024	18.028	(1.017)	44335	2.50000	2.0827
80 1,2-Dichlorobenzene	146	18.211	18.206	(1.027)	35201	2.50000	2.4926
81 1,2-Dibromo-3-Chloropropane	75	19.167	19.162	(1.081)	4351	2.50000	2.4387
82 1,2,4-Trichlorobenzene	180	20.222	20.226	(1.141)	13302	2.50000	1.8387
83 Hexachlorobutadiene	225	20.320	20.325	(1.146)	13966	2.50000	2.4102
84 Naphthalene	128	20.636	20.630	(1.164)	18242	2.50000	1.4167
85 1,2,3-Trichlorobenzene	180	21.000	20.995	(1.185)	13079	2.50000	1.7981

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG08.D
Date : 16-MAR-2008 19:28
Client ID: DYNA P&T
Instrument: MSVOA05.i
Sample Info: ICAL,S8668,0.001/100,S8400,0.001/100
Purge Volume: 5.0
Operator: VOC
Column phase: RTX 624
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG08.D
Report Date: 17-Mar-2008 08:09

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG08.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 19:28 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICAL,S8668,0.001/100,S8400,0.001/100
Misc Info : 5PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\826GOX5S.m
Meth Date : 17-Mar-2008 08:09 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 19:28 Cal File: ECG08.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.311	4.339	(0.440)	50569	5.00000	4.3034(M)
2 Chloromethane	50	4.853	4.802	(0.496)	38867	5.00000	4.6509(M)
3 Vinyl Chloride	62	4.883	4.891	(0.499)	32990	5.00000	3.4970(M)
4 Bromomethane	94	5.464	5.483	(0.558)	11476	5.00000	2.6949(M)
5 Chloroethane	64	5.602	5.620	(0.572)	16737	5.00000	3.8632(M)
6 Trichlorofluoromethane	101	5.937	5.955	(0.606)	46255	5.00000	3.2570(M)
7 Ethanol	45	6.213	6.231	(0.635)	49417	500.000	453.9291(AM)
8 Freon 113	101	6.627	6.646	(0.677)	42284	5.00000	5.1494(M)
9 1,1-Dichloroethene	96	6.726	6.744	(0.687)	31906	5.00000	5.1128
10 Acetone	43	6.834	6.852	(0.698)	16334	5.00000	5.8189
11 Isopropanol	45	6.933	6.941	(0.708)	30936	50.0000	46.2666(A)
12 Carbon Disulfide	76	7.110	7.128	(0.726)	135224	5.00000	5.0285
13 Methylene Chloride	84	7.445	7.463	(0.760)	46505	5.00000	5.3810
14 tert-Butyl Alcohol (TBA)	59	7.475	7.483	(0.763)	46175	50.0000	47.2485(A)
15 MTBE	73	7.692	7.700	(0.786)	111128	5.00000	5.5881
16 trans-1,2-Dichloroethene	96	7.760	7.779	(0.793)	39837	5.00000	5.1678
17 Isopropyl Ether (DIPE)	45	8.273	8.281	(0.845)	177946	5.00000	4.7069(A)
18 Vinyl Acetate	43	8.342	8.359	(0.852)	112608	5.00000	4.5920
19 1,1-Dichloroethane	63	8.401	8.409	(0.858)	86514	5.00000	5.0269
20 Ethyl tert-Butyl Ether (ETBE)	59	8.766	8.784	(0.895)	131648	5.00000	4.5906(A)
21 2,2-Dichloropropane	77	9.170	9.188	(0.937)	64786	5.00000	4.7041
22 2-Butanone	43	9.180	9.198	(0.938)	28154	5.00000	4.9597

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG08.D
Report Date: 17-Mar-2008 08:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.209	9.218	(0.941)	42865	5.00000	4.9507
	24 Bromochloromethane	128	9.564	9.573	(0.977)	19579	5.00000	4.5323
	25 Tetrahydrofuran	42	9.574	9.572	(0.978)	159218	50.0000	50.1684(A)
	26 Chloroform	83	9.603	9.612	(0.981)	88332	5.00000	5.1191
*	27 Pentafluorobenzene	168	9.791	9.799	(1.000)	706091	50.0000	
	28 Dibromofluoromethane	113	9.840	9.848	(1.005)	437904	50.0000	51.2686
	29 1,1,1-Trichloroethane	97	9.869	9.878	(1.008)	59707	5.00000	5.1783
	30 Carbon Tetrachloride	117	10.067	10.075	(0.923)	50527	5.00000	4.9456
	31 1,1-Dichloropropene	75	10.086	10.094	(0.925)	63376	5.00000	4.9961
	32 1,2-Dichloroethane-d4	65	10.382	10.400	(0.952)	477434	50.0000	48.0203
	33 Benzene	78	10.392	10.400	(0.953)	171207	5.00000	4.8702
	34 Methyl tert-Amyl Ether (TAME)	73	10.402	10.420	(0.954)	107152	5.00000	4.4863(A)
	35 1,2-Dichloroethane	62	10.500	10.508	(0.963)	57817	5.00000	4.7110
*	36 1,4-Difluorobenzene	114	10.904	10.912	(1.000)	1079459	50.0000	
	37 Trichloroethene	95	11.298	11.307	(1.036)	38706	5.00000	4.6372
	38 Trifluorotoluene	146	11.663	11.681	(1.070)	51585	5.00000	4.4207(A)
	39 1,2-Dichloropropane	63	11.712	11.730	(1.074)	50222	5.00000	4.7736
	40 Dibromomethane	93	11.919	11.928	(1.093)	28343	5.00000	4.4691
	41 Bromodichloromethane	83	12.077	12.086	(1.108)	60994	5.00000	4.6615
	42 Tetramethyl THF	43	12.659	12.657	(1.161)	98091	5.00000	4.3370(A)
	43 cis-1,3-Dichloropropene	75	12.708	12.716	(1.165)	72837	5.00000	4.7515
	44 4-Methyl-2-Pentanone	43	12.856	12.854	(1.179)	50365	5.00000	4.2906
	45 Toluene-d8	98	13.033	13.041	(1.195)	1188860	50.0000	50.2086
	46 Toluene	92	13.132	13.140	(1.204)	85490	5.00000	4.7429
	47 trans-1,3-Dichloropropene	75	13.476	13.485	(1.236)	64440	5.00000	4.6657
	48 1,1,2-Trichloroethane	85	13.743	13.751	(1.260)	20670	5.00000	4.4813
	49 Tetrachloroethene	166	13.861	13.869	(0.924)	39241	5.00000	5.0706
	50 2-Hexanone	43	13.979	13.977	(0.932)	35157	5.00000	4.3148
	51 1,3-Dichloropropane	76	13.999	13.998	(0.933)	63671	5.00000	4.6138
	52 Dibromochloromethane	129	14.275	14.283	(0.951)	40865	5.00000	4.6142
	53 1,2-Dibromoethane	107	14.482	14.481	(1.328)	32690	5.00000	4.3736
*	54 Chlorobenzene-d5	117	15.004	15.012	(1.000)	915654	50.0000	
	55 Chlorobenzene	112	15.043	15.052	(1.003)	87520	5.00000	4.9132
	56 Ethylbenzene	91	15.093	15.101	(1.006)	167664	5.00000	5.0383
	57 1,1,1,2-Tetrachloroethane	131	15.132	15.131	(1.009)	33714	5.00000	4.5809
	58 m,p-Xylenes	106	15.231	15.239	(1.015)	99915	10.0000	9.3024
	59 o-Xylene	106	15.743	15.742	(1.049)	49085	5.00000	4.4849
	60 Styrene	104	15.773	15.772	(1.051)	85108	5.00000	4.4490
	61 Bromoform	173	16.078	16.077	(1.072)	29125	5.00000	4.4432
	62 Isopropylbenzene	105	16.147	16.146	(0.911)	138563	5.00000	4.9029
	63 Cyclohexanone_	55	16.394	16.402	(0.925)	83908	50.0000	59.3650(A)
	64 Bromofluorobenzene	95	16.413	16.421	(0.926)	531125	50.0000	52.3872
	65 1,1,2,2-Tetrachloroethane	83	16.571	16.569	(0.935)	52332	5.00000	4.6281
	66 Propylbenzene	91	16.620	16.619	(0.938)	187160	5.00000	5.0044
	67 Bromobenzene	156	16.620	16.619	(0.938)	42747	5.00000	4.7273
	68 1,2,3-Trichloropropane	75	16.660	16.658	(0.940)	41733	5.00000	4.7026(M)
	69 2-Chlorotoluene	91	16.798	16.806	(0.948)	118285	5.00000	4.8121
	70 1,3,5-Trimethylbenzene	105	16.808	16.806	(0.948)	101793	5.00000	4.6400
	71 4-Chlorotoluene	91	16.926	16.924	(0.955)	108143	5.00000	4.8941
	72 tert-Butylbenzene	119	17.182	17.180	(0.969)	88223	5.00000	4.7010
	73 1,2,4-Trimethylbenzene	105	17.241	17.239	(0.973)	88342	5.00000	4.2782
	74 sec-Butylbenzene	105	17.419	17.417	(0.983)	145305	5.00000	4.8804
	75 para-Isopropyl Toluene	119	17.557	17.565	(0.991)	101589	5.00000	4.5715
	76 1,3-Dichlorobenzene	146	17.655	17.653	(0.996)	70914	5.00000	4.7073

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG08.D
Report Date: 17-Mar-2008 08:09

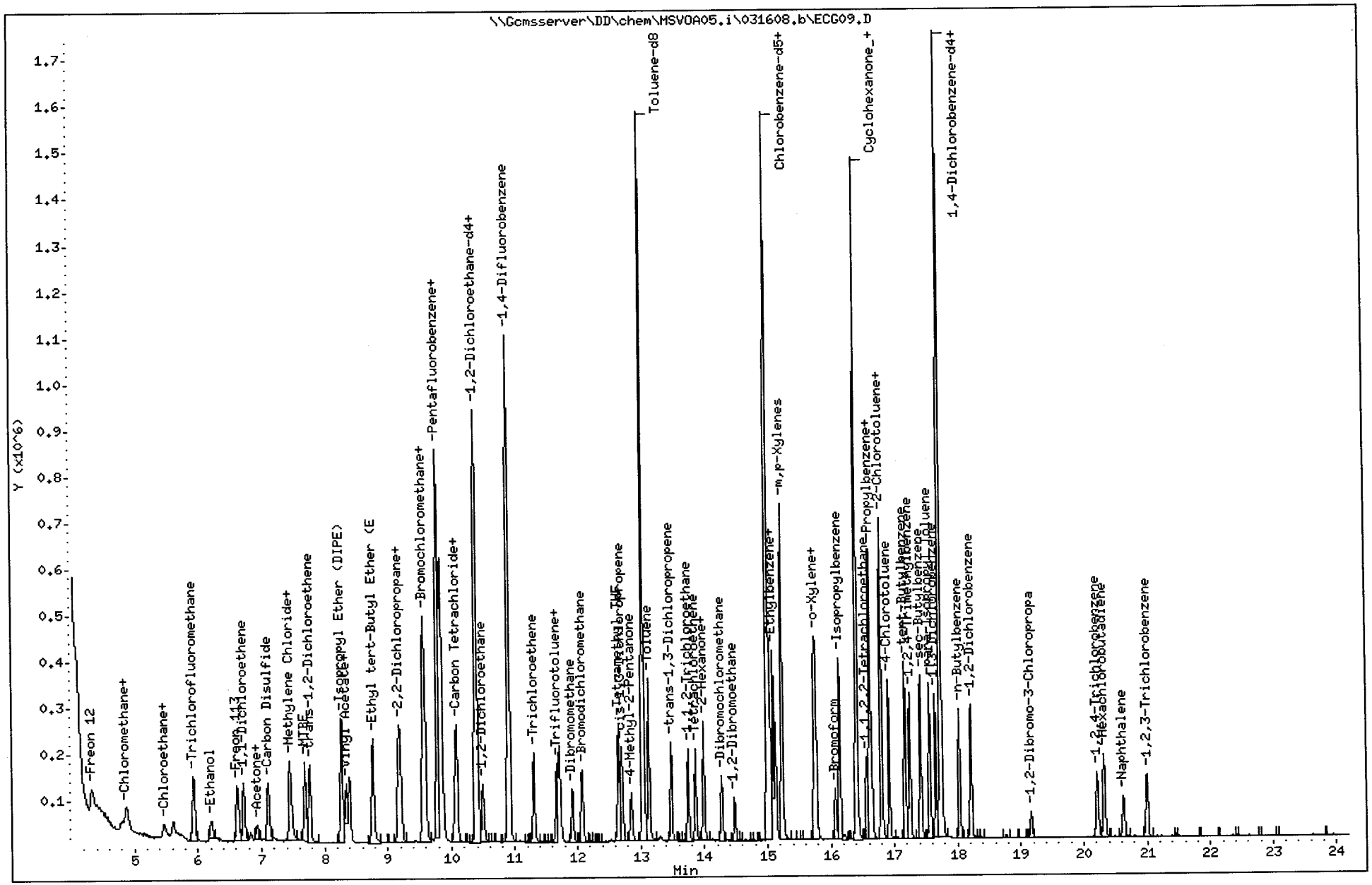
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 77 1,4-Dichlorobenzene-d4	152	17.724	17.732	(1.000)	528292	50.0000	
78 1,4-Dichlorobenzene	146	17.754	17.752	(1.002)	73065	5.00000	4.6932
79 n-Butylbenzene	91	18.030	18.028	(1.017)	96254	5.00000	4.3259
80 1,2-Dichlorobenzene	146	18.207	18.206	(1.027)	67219	5.00000	4.5537
81 1,2-Dibromo-3-Chloropropane	75	19.163	19.162	(1.081)	8122	5.00000	4.3553
82 1,2,4-Trichlorobenzene	180	20.227	20.226	(1.141)	29964	5.00000	3.9625
83 Hexachlorobutadiene	225	20.326	20.325	(1.147)	29470	5.00000	4.8657
84 Naphthalene	128	20.631	20.630	(1.164)	44015	5.00000	3.2704
85 1,2,3-Trichlorobenzene	180	21.006	20.995	(1.185)	28907	5.00000	3.8021

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG09.D
Date : 16-MAR-2008 20:01
Client ID: DYNA P&T
Sample Info: ICAL,S8668,0.002/100,S8400,0.002/100
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i
Operator: VOC
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG09.D
Report Date: 17-Mar-2008 08:10

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 20:01 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICAL,S8668,0.002/100,S8400,0.002/100
Misc Info : 10PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\826GOX5S.m
Meth Date : 17-Mar-2008 08:10 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 20:01 Cal File: ECG09.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.325	4.339	(0.442)	166862	10.0000	13.2850(M)
2 Chloromethane	50	4.857	4.802	(0.496)	112123	10.0000	13.4029(M)
3 Vinyl Chloride	62	4.876	4.891	(0.498)	117551	10.0000	12.0569(M)
4 Bromomethane	94	5.468	5.483	(0.558)	51945	10.0000	11.8520(M)
5 Chloroethane	64	5.616	5.620	(0.573)	54502	10.0000	12.2834(M)
6 Trichlorofluoromethane	101	5.931	5.955	(0.606)	158817	10.0000	11.2225(M)
7 Ethanol	45	6.217	6.231	(0.635)	103660	1000.00	948.8436(AM)
8 Freon 113	101	6.621	6.646	(0.676)	70231	10.0000	8.5915
9 1,1-Dichloroethene	96	6.719	6.744	(0.686)	59103	10.0000	9.5139
10 Acetone	43	6.828	6.852	(0.697)	30698	10.0000	10.9854
11 Isopropanol	45	6.926	6.941	(0.707)	63462	100.000	95.3397(A)
12 Carbon Disulfide	76	7.104	7.128	(0.725)	260320	10.0000	9.7242
13 Methylene Chloride	84	7.449	7.463	(0.761)	88187	10.0000	10.2500
14 tert-Butyl Alcohol (TBA)	59	7.468	7.483	(0.763)	94041	100.000	96.6619(A)
15 MTBE	73	7.685	7.700	(0.785)	223341	10.0000	11.2816
16 trans-1,2-Dichloroethene	96	7.764	7.779	(0.793)	75983	10.0000	9.9013
17 Isopropyl Ether (DIPE)	45	8.267	8.281	(0.844)	377722	10.0000	10.0365(A)
18 Vinyl Acetate	43	8.345	8.359	(0.852)	250065	10.0000	10.2434
19 1,1-Dichloroethane	63	8.395	8.409	(0.857)	175942	10.0000	10.2692
20 Ethyl tert-Butyl Ether (ETBE)	59	8.769	8.784	(0.895)	281878	10.0000	9.8736(A)
21 2,2-Dichloropropane	77	9.173	9.188	(0.937)	119742	10.0000	9.6816
22 2-Butanone	43	9.183	9.198	(0.938)	57588	10.0000	10.1908

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG09.D
Report Date: 17-Mar-2008 08:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.203	9.218	(0.940)	86353	10.0000	10.0184
	24 Bromochloromethane	128	9.558	9.573	(0.976)	40893	10.0000	9.5089
	25 Tetrahydrofuran	42	9.567	9.572	(0.977)	303715	100.000	96.1304(A)
	26 Chloroform	83	9.597	9.612	(0.980)	172235	10.0000	10.0267
*	27 Pentafluorobenzene	168	9.794	9.799	(1.000)	702917	50.0000	
	28 Dibromofluoromethane	113	9.843	9.848	(1.005)	425925	50.0000	50.0913
	29 1,1,1-Trichloroethane	97	9.873	9.878	(1.008)	113038	10.0000	9.8479
	30 Carbon Tetrachloride	117	10.060	10.075	(0.922)	90791	10.0000	9.0767
	31 1,1-Dichloropropene	75	10.090	10.094	(0.925)	113152	10.0000	9.1109
	32 1,2-Dichloroethane-d4	65	10.385	10.400	(0.952)	479403	50.0000	49.2497
	33 Benzene	78	10.395	10.400	(0.953)	347749	10.0000	10.1037
	34 Methyl tert-Amyl Ether (TAME)	73	10.405	10.420	(0.954)	223463	10.0000	9.5563(A)
	35 1,2-Dichloroethane	62	10.494	10.508	(0.962)	122553	10.0000	10.1994
*	36 1,4-Difluorobenzene	114	10.908	10.912	(1.000)	1056853	50.0000	
	37 Trichloroethene	95	11.302	11.307	(1.036)	76598	10.0000	9.3733
	38 Trifluorotoluene	146	11.667	11.681	(1.070)	96567	10.0000	8.4527(A)
	39 1,2-Dichloropropane	63	11.716	11.730	(1.074)	98890	10.0000	9.6006
	40 Dibromomethane	93	11.913	11.928	(1.092)	58836	10.0000	9.4757
	41 Bromodichloromethane	83	12.081	12.086	(1.108)	127442	10.0000	9.9481
	42 Tetramethyl THF	43	12.652	12.657	(1.160)	216624	10.0000	9.7829(A)
	43 cis-1,3-Dichloropropene	75	12.711	12.716	(1.165)	141434	10.0000	9.4239
	44 4-Methyl-2-Pentanone	43	12.849	12.854	(1.178)	104863	10.0000	9.1245
	45 Toluene-d8	98	13.036	13.041	(1.195)	1175879	50.0000	50.7226
	46 Toluene	92	13.135	13.140	(1.204)	169807	10.0000	9.6222
	47 trans-1,3-Dichloropropene	75	13.480	13.485	(1.236)	126578	10.0000	9.3608
	48 1,1,2-Trichloroethane	85	13.746	13.751	(1.260)	43230	10.0000	9.5729
	49 Tetrachloroethene	166	13.864	13.869	(0.924)	69337	10.0000	9.0740
	50 2-Hexanone	43	13.983	13.977	(0.932)	75325	10.0000	9.3626
	51 1,3-Dichloropropane	76	13.992	13.998	(0.932)	131901	10.0000	9.6801
	52 Dibromochloromethane	129	14.278	14.283	(0.951)	82528	10.0000	9.4375
	53 1,2-Dibromoethane	107	14.475	14.481	(1.327)	68115	10.0000	9.3082
*	54 Chlorobenzene-d5	117	15.008	15.012	(1.000)	904110	50.0000	
	55 Chlorobenzene	112	15.047	15.052	(1.003)	169566	10.0000	9.6407
	56 Ethylbenzene	91	15.096	15.101	(1.006)	317228	10.0000	9.6544
	57 1,1,1,2-Tetrachloroethane	131	15.126	15.131	(1.008)	71048	10.0000	9.7770
	58 m,p-Xylenes	106	15.234	15.239	(1.015)	206240	20.0000	19.4468
	59 o-Xylene	106	15.747	15.742	(1.049)	105825	10.0000	9.7927
	60 Styrene	104	15.766	15.772	(1.051)	180361	10.0000	9.5487
	61 Bromoform	173	16.072	16.077	(1.071)	58475	10.0000	9.0347
	62 Isopropylbenzene	105	16.141	16.146	(0.910)	261480	10.0000	9.4583
	63 Cyclohexanone_	55	16.397	16.402	(0.925)	142209	100.000	102.8525(A)
	64 Bromofluorobenzene	95	16.417	16.421	(0.926)	488814	50.0000	49.2871
	65 1,1,2,2-Tetrachloroethane	83	16.565	16.569	(0.934)	111883	10.0000	10.1149
	66 Propylbenzene	91	16.624	16.619	(0.938)	345438	10.0000	9.4421
	67 Bromobenzene	156	16.624	16.619	(0.938)	84826	10.0000	9.5896
	68 1,2,3-Trichloropropane	75	16.653	16.658	(0.939)	85620	10.0000	9.9941(M)
	69 2-Chlorotoluene	91	16.801	16.806	(0.948)	237992	10.0000	9.8977
	70 1,3,5-Trimethylbenzene	105	16.801	16.806	(0.948)	207380	10.0000	9.6634
	71 4-Chlorotoluene	91	16.919	16.924	(0.954)	210411	10.0000	9.7343
	72 tert-Butylbenzene	119	17.176	17.180	(0.969)	172611	10.0000	9.4024
	73 1,2,4-Trimethylbenzene	105	17.245	17.239	(0.973)	180607	10.0000	8.9412
	74 sec-Butylbenzene	105	17.422	17.417	(0.983)	273188	10.0000	9.3799
	75 para-Isopropyl Toluene	119	17.560	17.565	(0.991)	206524	10.0000	9.5005
	76 1,3-Dichlorobenzene	146	17.649	17.653	(0.996)	141561	10.0000	9.6061

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG09.D
Report Date: 17-Mar-2008 08:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 77 1,4-Dichlorobenzene-d4	152	17.728	17.732	(1.000)	516789	50.0000	
78 1,4-Dichlorobenzene	146	17.757	17.752	(1.002)	144650	10.0000	9.4981
79 n-Butylbenzene	91	18.023	18.028	(1.017)	186610	10.0000	8.5734
80 1,2-Dichlorobenzene	146	18.210	18.206	(1.027)	141118	10.0000	9.7728
81 1,2-Dibromo-3-Chloropropane	75	19.166	19.162	(1.081)	17547	10.0000	9.6188
82 1,2,4-Trichlorobenzene	180	20.221	20.226	(1.141)	58557	10.0000	7.9161
83 Hexachlorobutadiene	225	20.329	20.325	(1.147)	52952	10.0000	8.9374
84 Naphthalene	128	20.625	20.630	(1.163)	93747	10.0000	7.1207
85 1,2,3-Trichlorobenzene	180	20.999	20.995	(1.185)	61142	10.0000	8.2209

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG10.D
Report Date: 17-Mar-2008 08:11

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 20:35 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICAL,S8668,0.004/100,S8400,0.004/100
Misc Info : 20PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\826GOX5S.m
Meth Date : 17-Mar-2008 08:11 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 20:35 Cal File: ECG10.D
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.321	4.339	(0.441)	380078	20.0000	27.4871(M)
2 Chloromethane	50	4.853	4.802	(0.496)	239352	20.0000	27.8779(M)
3 Vinyl Chloride	62	4.873	4.891	(0.498)	249852	20.0000	24.1877(M)
4 Bromomethane	94	5.464	5.483	(0.558)	114069	20.0000	24.2036(M)
5 Chloroethane	64	5.612	5.620	(0.573)	109989	20.0000	23.4703(M)
6 Trichlorofluoromethane	101	5.937	5.955	(0.606)	344524	20.0000	23.7637(M)
7 Ethanol	45	6.213	6.231	(0.635)	221127	2000.00	1980.1893(A)
8 Freon 113	101	6.627	6.646	(0.677)	173329	20.0000	20.7440
9 1,1-Dichloroethene	96	6.725	6.744	(0.687)	130119	20.0000	20.4914
10 Acetone	43	6.834	6.852	(0.698)	60891	20.0000	21.3178
11 Isopropanol	45	6.932	6.941	(0.708)	134485	200.000	197.6585(A)
12 Carbon Disulfide	76	7.110	7.128	(0.726)	568129	20.0000	20.7623
13 Methylene Chloride	84	7.445	7.463	(0.760)	173526	20.0000	19.7318
14 tert-Butyl Alcohol (TBA)	59	7.464	7.483	(0.762)	203484	200.000	204.6210(A)
15 MTBE	73	7.681	7.700	(0.785)	500633	20.0000	24.7403
16 trans-1,2-Dichloroethene	96	7.760	7.779	(0.793)	162916	20.0000	20.7692
17 Isopropyl Ether (DIPE)	45	8.273	8.281	(0.845)	803597	20.0000	20.8896(A)
18 Vinyl Acetate	43	8.342	8.359	(0.852)	502065	20.0000	20.1203
19 1,1-Dichloroethane	63	8.401	8.409	(0.858)	357428	20.0000	20.4098
20 Ethyl tert-Butyl Ether (ETBE)	59	8.765	8.784	(0.895)	609208	20.0000	20.8767(A)
21 2,2-Dichloropropane	77	9.169	9.188	(0.937)	262837	20.0000	21.8884
22 2-Butanone	43	9.179	9.198	(0.938)	116029	20.0000	20.0876

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG10.D
Report Date: 17-Mar-2008 08:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.209	9.218	(0.941)	177320	20.0000	20.1262
	24 Bromochloromethane	128	9.564	9.573	(0.977)	87361	20.0000	19.8739
	25 Tetrahydrofuran	42	9.564	9.572	(0.977)	717715	200.000	222.2430(A)
	26 Chloroform	83	9.603	9.612	(0.981)	363369	20.0000	20.6951
*	27 Pentafluorobenzene	168	9.790	9.799	(1.000)	718493	50.0000	
	28 Dibromofluoromethane	113	9.840	9.848	(1.005)	432535	50.0000	49.7659
	29 1,1,1-Trichloroethane	97	9.869	9.878	(1.008)	242408	20.0000	20.6609
	30 Carbon Tetrachloride	117	10.066	10.075	(0.923)	210371	20.0000	21.1279
	31 1,1-Dichloropropene	75	10.086	10.094	(0.925)	254571	20.0000	20.5917
	32 1,2-Dichloroethane-d4	65	10.382	10.400	(0.952)	481703	50.0000	49.7125
	33 Benzene	78	10.391	10.400	(0.953)	720046	20.0000	21.0165
	34 Methyl tert-Amyl Ether (TAME)	73	10.401	10.420	(0.954)	472365	20.0000	20.2930(A)
	35 1,2-Dichloroethane	62	10.500	10.508	(0.963)	246623	20.0000	20.6190
*	36 1,4-Difluorobenzene	114	10.904	10.912	(1.000)	1052038	50.0000	
	37 Trichloroethene	95	11.298	11.307	(1.036)	174654	20.0000	21.4702
	38 Trifluorotoluene	146	11.673	11.681	(1.070)	242781	20.0000	21.3484(A)
	39 1,2-Dichloropropane	63	11.712	11.730	(1.074)	212198	20.0000	20.6953
	40 Dibromomethane	93	11.919	11.928	(1.093)	124943	20.0000	20.2145
	41 Bromodichloromethane	83	12.077	12.086	(1.108)	258063	20.0000	20.2366
	42 Tetramethyl THF	43	12.648	12.657	(1.160)	463933	20.0000	21.0474(A)
	43 cis-1,3-Dichloropropene	75	12.707	12.716	(1.165)	307399	20.0000	20.5761
	44 4-Methyl-2-Pentanone	43	12.845	12.854	(1.178)	231974	20.0000	20.2772
	45 Toluene-d8	98	13.033	13.041	(1.195)	1205409	50.0000	52.2344
	46 Toluene	92	13.131	13.140	(1.204)	376233	20.0000	21.4171
	47 trans-1,3-Dichloropropene	75	13.476	13.485	(1.236)	280853	20.0000	20.8650
	48 1,1,2-Trichloroethane	85	13.742	13.751	(1.260)	93859	20.0000	20.8794
	49 Tetrachloroethene	166	13.860	13.869	(0.924)	161212	20.0000	20.7035
	50 2-Hexanone	43	13.979	13.977	(0.932)	173862	20.0000	21.2069
	51 1,3-Dichloropropane	76	13.998	13.998	(0.933)	289430	20.0000	20.8444
	52 Dibromochloromethane	129	14.274	14.283	(0.951)	178185	20.0000	19.9960
	53 1,2-Dibromoethane	107	14.472	14.481	(1.327)	146640	20.0000	20.1307
*	54 Chlorobenzene-d5	117	15.004	15.012	(1.000)	921313	50.0000	
	55 Chlorobenzene	112	15.043	15.052	(1.003)	374125	20.0000	20.8738
	56 Ethylbenzene	91	15.092	15.101	(1.006)	685266	20.0000	20.4659
	57 1,1,1,2-Tetrachloroethane	131	15.132	15.131	(1.009)	152041	20.0000	20.5318
	58 m,p-Xylenes	106	15.230	15.239	(1.015)	438797	40.0000	40.6026
	59 o-Xylene	106	15.743	15.742	(1.049)	226018	20.0000	20.5246
	60 Styrene	104	15.763	15.772	(1.051)	400247	20.0000	20.7943
	61 Bromoform	173	16.078	16.077	(1.072)	133932	20.0000	20.3070
	62 Isopropylbenzene	105	16.147	16.146	(0.911)	606417	20.0000	20.7118
	63 Cyclohexanone_	55	16.393	16.402	(0.925)	391806	200.000	267.5670(A)
	64 Bromofluorobenzene	95	16.413	16.421	(0.926)	513839	50.0000	48.9204
	65 1,1,2,2-Tetrachloroethane	83	16.571	16.569	(0.935)	242902	20.0000	20.7349
	66 Propylbenzene	91	16.620	16.619	(0.938)	785979	20.0000	20.2855
	67 Bromobenzene	156	16.620	16.619	(0.938)	185188	20.0000	19.7678
	68 1,2,3-Trichloropropane	75	16.659	16.658	(0.940)	185821	20.0000	20.4804
	69 2-Chlorotoluene	91	16.797	16.806	(0.948)	526759	20.0000	20.6852
	70 1,3,5-Trimethylbenzene	105	16.807	16.806	(0.948)	459502	20.0000	20.2173
	71 4-Chlorotoluene	91	16.925	16.924	(0.955)	479984	20.0000	20.9672
	72 tert-Butylbenzene	119	17.182	17.180	(0.969)	399462	20.0000	20.5458
	73 1,2,4-Trimethylbenzene	105	17.241	17.239	(0.973)	446390	20.0000	20.8665
	74 sec-Butylbenzene	105	17.418	17.417	(0.983)	645712	20.0000	20.9339
	75 para-Isopropyl Toluene	119	17.556	17.565	(0.991)	460234	20.0000	19.9908
	76 1,3-Dichlorobenzene	146	17.655	17.653	(0.996)	311882	20.0000	19.9834

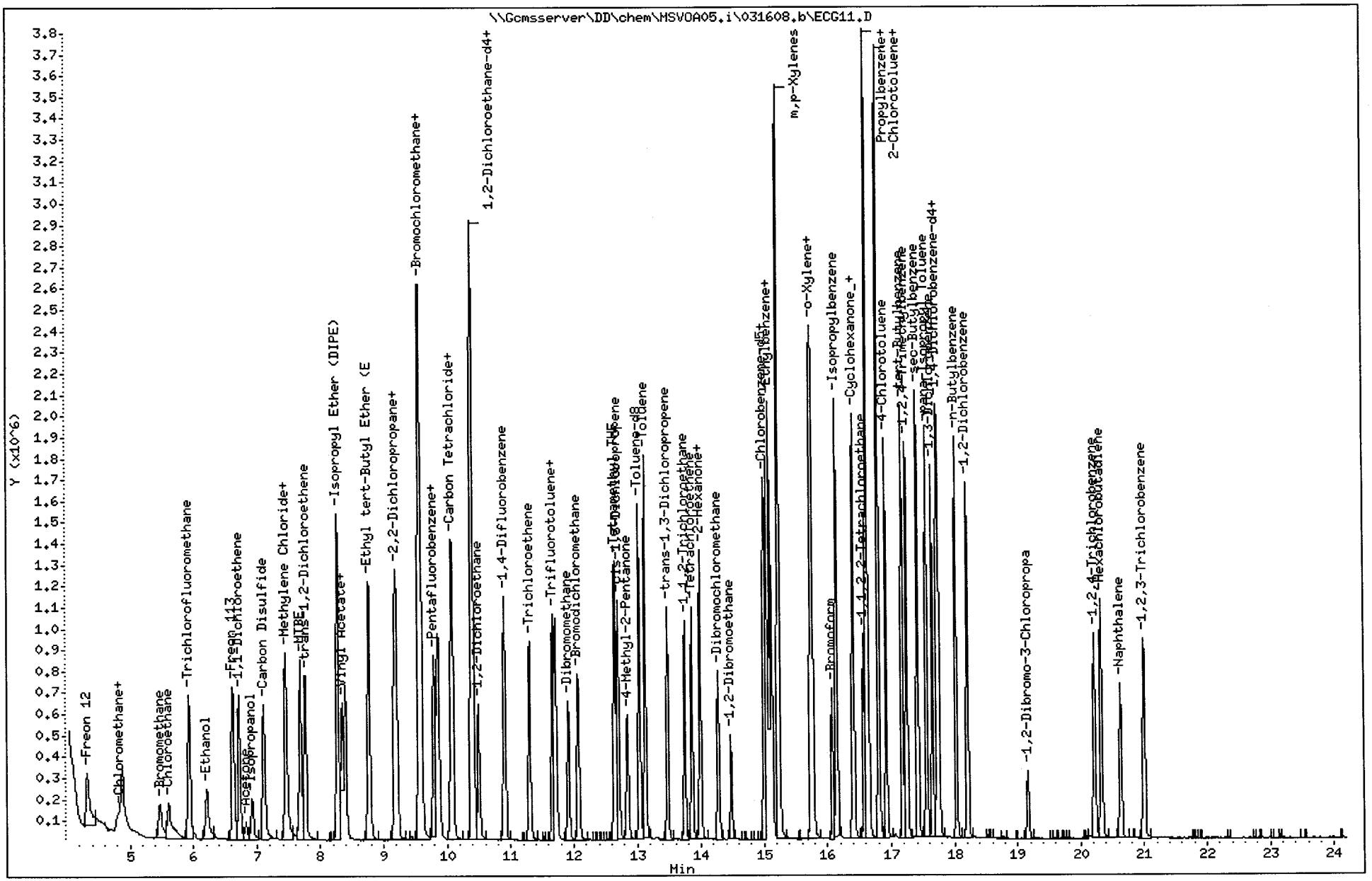
Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG10.D
Report Date: 17-Mar-2008 08:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 77 1,4-Dichlorobenzene-d4	152	17.724	17.732	(1.000)	547318	50.0000	
78 1,4-Dichlorobenzene	146	17.753	17.752	(1.002)	331060	20.0000	20.5259
79 n-Butylbenzene	91	18.029	18.028	(1.017)	457157	20.0000	19.8317
80 1,2-Dichlorobenzene	146	18.207	18.206	(1.027)	311720	20.0000	20.3834
81 1,2-Dibromo-3-Chloropropane	75	19.163	19.162	(1.081)	40564	20.0000	20.9959
82 1,2,4-Trichlorobenzene	180	20.217	20.226	(1.141)	144650	20.0000	18.4641
83 Hexachlorobutadiene	225	20.325	20.325	(1.147)	119571	20.0000	19.0560
84 Naphthalene	128	20.631	20.630	(1.164)	271226	20.0000	19.4525
85 1,2,3-Trichlorobenzene	180	20.996	20.995	(1.185)	150527	20.0000	19.1103

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG11.D
Date : 16-MAR-2008 21:07
Client ID: DYNA P&T
Instrument: MSVOA05.i
Sample Info: ICAL,S8668,0.01/100,S8400,0.01/100
Purge Volume: 5.0
Operator: VOC
Column phase: RTX 624
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG11.D
Report Date: 17-Mar-2008 08:12

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 21:07 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICAL,S8668,0.01/100,S8400,0.01/100
Misc Info : 50PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\826GOX5S.m
Meth Date : 17-Mar-2008 08:12 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 21:07 Cal File: ECG11.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.318	4.339	(0.441)	873699	50.0000	57.4997(M)
2 Chloromethane	50	4.850	4.802	(0.495)	585921	50.0000	57.9166(M)
3 Vinyl Chloride	62	4.880	4.891	(0.498)	624864	50.0000	56.1072(M)
4 Bromomethane	94	5.471	5.483	(0.558)	321029	50.0000	62.3307(M)
5 Chloroethane	64	5.609	5.620	(0.573)	284443	50.0000	57.1075(M)
6 Trichlorofluoromethane	101	5.934	5.955	(0.606)	774171	50.0000	51.0222
7 Ethanol	45	6.210	6.231	(0.634)	573222	5000.00	4862.2788(AM)
8 Freon 113	101	6.624	6.646	(0.676)	436151	50.0000	49.8753
9 1,1-Dichloroethene	96	6.723	6.744	(0.686)	325840	50.0000	49.0303
10 Acetone	43	6.831	6.852	(0.697)	141539	50.0000	47.3471
11 Isopropanol	45	6.920	6.941	(0.706)	348207	500.000	488.9972(A)
12 Carbon Disulfide	76	7.107	7.128	(0.725)	1353522	50.0000	47.2630
13 Methylene Chloride	84	7.452	7.463	(0.761)	452756	50.0000	49.1920
14 tert-Butyl Alcohol (TBA)	59	7.462	7.483	(0.762)	492413	500.000	473.1258(A)
15 MTBE	73	7.688	7.700	(0.785)	1172458	50.0000	55.3618
16 trans-1,2-Dichloroethene	96	7.767	7.779	(0.793)	363912	50.0000	44.3283
17 Isopropyl Ether (DIPE)	45	8.270	8.281	(0.844)	2046198	50.0000	50.8239(A)
18 Vinyl Acetate	43	8.349	8.359	(0.852)	1309035	50.0000	50.1250
19 1,1-Dichloroethane	63	8.398	8.409	(0.857)	893269	50.0000	48.7373
20 Ethyl tert-Butyl Ether (ETBE)	59	8.763	8.784	(0.894)	1529969	50.0000	50.0964(A)
21 2,2-Dichloropropane	77	9.177	9.188	(0.937)	631158	50.0000	50.4425
22 2-Butanone	43	9.177	9.198	(0.937)	294983	50.0000	48.7961

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG11.D
Report Date: 17-Mar-2008 08:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	cis-1,2-Dichloroethene	96	9.206	9.218	(0.940)	449569	50.0000	48.7560
24	Bromochloromethane	128	9.561	9.573	(0.976)	230418	50.0000	50.0852
25	Tetrahydrofuran	42	9.571	9.572	(0.977)	1662836	500.000	491.9861(A)
26	Chloroform	83	9.600	9.612	(0.980)	895561	50.0000	48.7352
* 27	Pentafluorobenzene	168	9.797	9.799	(1.000)	751961	50.0000	
28	Dibromofluoromethane	113	9.837	9.848	(1.004)	454812	50.0000	50.0000
29	1,1,1-Trichloroethane	97	9.866	9.878	(1.007)	598653	50.0000	48.7535
30	Carbon Tetrachloride	117	10.064	10.075	(0.923)	514551	50.0000	49.7254
31	1,1-Dichloropropene	75	10.083	10.094	(0.925)	646944	50.0000	50.3535
32	1,2-Dichloroethane-d4	65	10.389	10.400	(0.953)	503505	50.0000	50.0000
33	Benzene	78	10.399	10.400	(0.954)	1749170	50.0000	49.1262
34	Methyl tert-Amyl Ether (TAME)	73	10.409	10.420	(0.955)	1242007	50.0000	51.3421(A)
35	1,2-Dichloroethane	62	10.497	10.508	(0.963)	611985	50.0000	49.2329
* 36	1,4-Difluorobenzene	114	10.901	10.912	(1.000)	1093331	50.0000	
37	Trichloroethene	95	11.305	11.307	(1.037)	416516	50.0000	49.2685
38	Trifluorotoluene	146	11.670	11.681	(1.071)	588717	50.0000	49.8123(A)
39	1,2-Dichloropropane	63	11.719	11.730	(1.075)	533328	50.0000	50.0501
40	Dibromomethane	93	11.916	11.928	(1.093)	323758	50.0000	50.4025
41	Bromodichloromethane	83	12.074	12.086	(1.108)	654412	50.0000	49.3792
42	Tetramethyl THF	43	12.655	12.657	(1.161)	1161526	50.0000	50.7053(A)
43	cis-1,3-Dichloropropene	75	12.705	12.716	(1.165)	776003	50.0000	49.9809
44	4-Methyl-2-Pentanone	43	12.853	12.854	(1.179)	608712	50.0000	51.1990
45	Toluene-d8	98	13.040	13.041	(1.196)	1199133	50.0000	50.0000
46	Toluene	92	13.129	13.140	(1.204)	907667	50.0000	49.7176
47	trans-1,3-Dichloropropene	75	13.483	13.485	(1.237)	705699	50.0000	50.4474
48	1,1,2-Trichloroethane	85	13.749	13.751	(1.261)	236145	50.0000	50.5476
49	Tetrachloroethene	166	13.868	13.869	(0.924)	383186	50.0000	46.2293
50	2-Hexanone	43	13.976	13.977	(0.932)	424963	50.0000	48.6950
51	1,3-Dichloropropane	76	13.996	13.998	(0.933)	714531	50.0000	48.3422
52	Dibromochloromethane	129	14.272	14.283	(0.951)	470001	50.0000	49.5485
53	1,2-Dibromoethane	107	14.479	14.481	(1.328)	377445	50.0000	49.8586
* 54	Chlorobenzene-d5	117	15.001	15.012	(1.000)	980726	50.0000	
55	Chlorobenzene	112	15.040	15.052	(1.003)	934381	50.0000	48.9743
56	Ethylbenzene	91	15.090	15.101	(1.006)	1713159	50.0000	48.0650
57	1,1,1,2-Tetrachloroethane	131	15.129	15.131	(1.009)	371593	50.0000	47.1405
58	m,p-Xylenes	106	15.238	15.239	(1.016)	1088402	100.000	94.6105
59	o-Xylene	106	15.740	15.742	(1.049)	584273	50.0000	49.8434
60	Styrene	104	15.770	15.772	(1.051)	1009640	50.0000	49.2768
61	Bromoform	173	16.075	16.077	(1.072)	350121	50.0000	49.8699
62	Isopropylbenzene	105	16.144	16.146	(0.911)	1442357	50.0000	46.9632
63	Cyclohexanone_	55	16.391	16.402	(0.925)	526667	500.000	342.8741(A)
64	Bromofluorobenzene	95	16.410	16.421	(0.926)	550896	50.0000	50.0000
65	1,1,2,2-Tetrachloroethane	83	16.568	16.569	(0.935)	582699	50.0000	47.4191
66	Propylbenzene	91	16.617	16.619	(0.938)	1991711	50.0000	49.0049
67	Bromobenzene	156	16.617	16.619	(0.938)	482390	50.0000	49.0887
68	1,2,3-Trichloropropane	75	16.657	16.658	(0.940)	437214	50.0000	46.6149(M)
69	2-Chlorotoluene	91	16.795	16.806	(0.948)	1323690	50.0000	49.5531
70	1,3,5-Trimethylbenzene	105	16.805	16.806	(0.948)	1181649	50.0000	49.5636
71	4-Chlorotoluene	91	16.923	16.924	(0.955)	1163720	50.0000	48.4617
72	tert-Butylbenzene	119	17.179	17.180	(0.969)	991349	50.0000	48.6084
73	1,2,4-Trimethylbenzene	105	17.238	17.239	(0.973)	1123321	50.0000	50.0584
74	sec-Butylbenzene	105	17.416	17.417	(0.983)	1591271	50.0000	49.1805
75	para-Isopropyl Toluene	119	17.553	17.565	(0.991)	1208801	50.0000	50.0547
76	1,3-Dichlorobenzene	146	17.652	17.653	(0.996)	816531	50.0000	49.8758

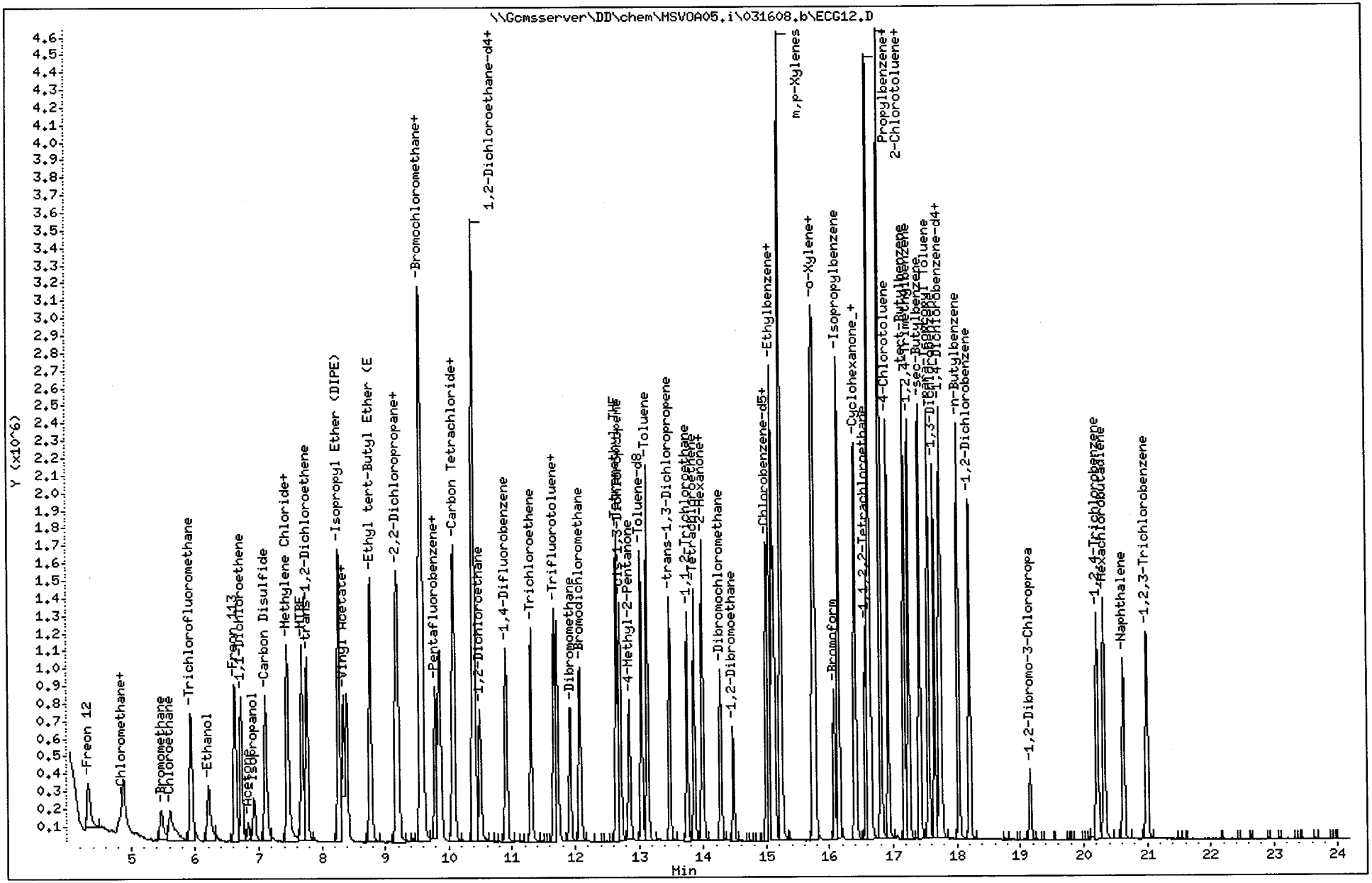
Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG11.D
Report Date: 17-Mar-2008 08:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 77 1,4-Dichlorobenzene-d4	152	17.721	17.732	(1.000)	574120	50.0000	
78 1,4-Dichlorobenzene	146	17.751	17.752	(1.002)	829938	50.0000	49.0545
79 n-Butylbenzene	91	18.027	18.028	(1.017)	1214680	50.0000	50.2337
80 1,2-Dichlorobenzene	146	18.204	18.206	(1.027)	787559	50.0000	49.0946
81 1,2-Dibromo-3-Chloropropane	75	19.160	19.162	(1.081)	99279	50.0000	48.9879
82 1,2,4-Trichlorobenzene	180	20.214	20.226	(1.141)	415668	50.0000	50.5818
83 Hexachlorobutadiene	225	20.323	20.325	(1.147)	313880	50.0000	47.6877
84 Naphthalene	128	20.628	20.630	(1.164)	765636	50.0000	52.3484
85 1,2,3-Trichlorobenzene	180	20.993	20.995	(1.185)	433111	50.0000	52.4192

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECC12.D
Date : 16-MAR-2008 21:40
Client ID: DYNA P&T
Instrument: MSVOA05.i
Sample Info: ICAL,S8668,0.012/100,S8400,0.012/100
Operator: VOC
Purge Volume: 5.0
Column diameter: 0.25
Column phase: RTX 624



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG12.D
Report Date: 17-Mar-2008 08:13

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 21:40 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICAL,S8668,0.012/100,S8400,0.012/100
Misc Info : 60PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\826GOX5S.m
Meth Date : 17-Mar-2008 08:13 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 21:40 Cal File: ECG12.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.316	4.339	(0.441)	995018	60.0000	62.6969(M)
2 Chloromethane	50	4.848	4.802	(0.495)	702972	60.0000	69.6662(M)
3 Vinyl Chloride	62	4.878	4.891	(0.498)	716516	60.0000	62.9626(M)
4 Bromomethane	94	5.469	5.483	(0.558)	365106	60.0000	67.8041(M)
5 Chloroethane	64	5.607	5.620	(0.572)	337277	60.0000	66.3498(M)
6 Trichlorofluoromethane	101	5.932	5.955	(0.606)	878938	60.0000	58.4379
7 Ethanol	45	6.208	6.231	(0.634)	794621	6000.00	6799.7308(A)
8 Freon 113	101	6.622	6.646	(0.676)	538013	60.0000	62.0664
9 1,1-Dichloroethene	96	6.730	6.744	(0.687)	417465	60.0000	63.3716
10 Acetone	43	6.829	6.852	(0.697)	187907	60.0000	63.4126
11 Isopropanol	45	6.918	6.941	(0.706)	479434	600.000	679.2230(A)
12 Carbon Disulfide	76	7.115	7.128	(0.726)	1768269	60.0000	62.2902
13 Methylene Chloride	84	7.450	7.463	(0.761)	535060	60.0000	58.6473
14 tert-Butyl Alcohol (TBA)	59	7.460	7.483	(0.762)	710180	600.000	688.3832(A)
15 MTBE	73	7.686	7.700	(0.785)	1561488	60.0000	63.1987(M)
16 trans-1,2-Dichloroethene	96	7.765	7.779	(0.793)	484491	60.0000	59.5368
17 Isopropyl Ether (DIPE)	45	8.268	8.281	(0.844)	2359804	60.0000	59.1304(A)
18 Vinyl Acetate	43	8.347	8.359	(0.852)	1638167	60.0000	63.2814
19 1,1-Dichloroethane	63	8.396	8.409	(0.857)	1082397	60.0000	59.5772
20 Ethyl tert-Butyl Ether (ETBE)	59	8.770	8.784	(0.895)	1908391	60.0000	63.0385(A)
21 2,2-Dichloropropane	77	9.174	9.188	(0.937)	754281	60.0000	60.4913
22 2-Butanone	43	9.184	9.198	(0.938)	381870	60.0000	63.7263

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG12.D
Report Date: 17-Mar-2008 08:13

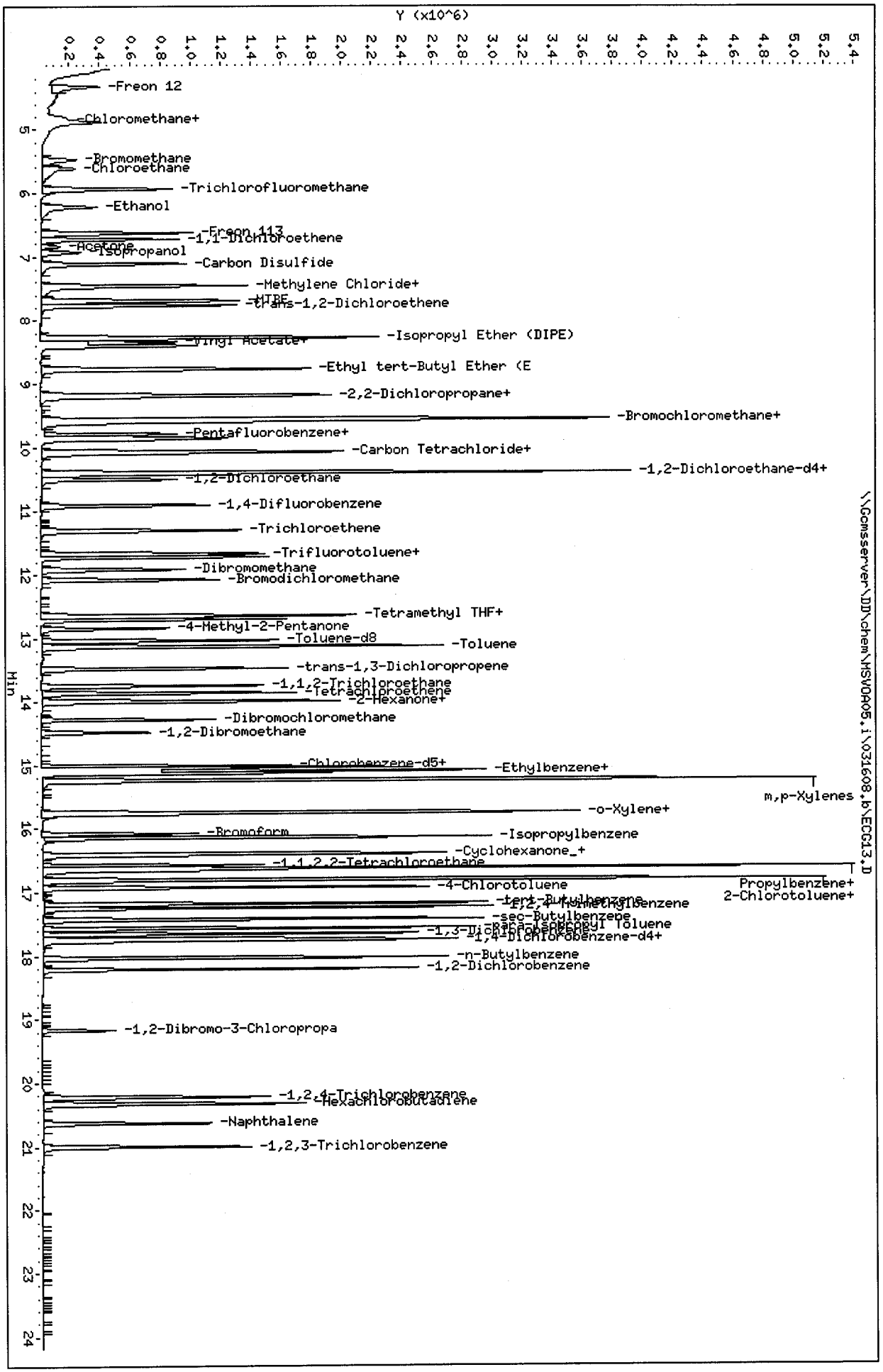
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.204	9.218	(0.940)	548412	60.0000	60.0003
	24 Bromochloromethane	128	9.559	9.573	(0.976)	290367	60.0000	63.6730
	25 Tetrahydrofuran	42	9.559	9.572	(0.976)	2089720	600.000	623.7437(A)
	26 Chloroform	83	9.598	9.612	(0.980)	1089475	60.0000	59.8108
*	27 Pentafluorobenzene	168	9.795	9.799	(1.000)	745385	50.0000	
	28 Dibromofluoromethane	113	9.845	9.848	(1.005)	442515	50.0000	49.0773
	29 1,1,1-Trichloroethane	97	9.874	9.878	(1.008)	732721	60.0000	60.1982
	30 Carbon Tetrachloride	117	10.061	10.075	(0.922)	621768	60.0000	60.7460
	31 1,1-Dichloropropene	75	10.091	10.094	(0.925)	776570	60.0000	61.1058
	32 1,2-Dichloroethane-d4	65	10.387	10.400	(0.952)	489255	50.0000	49.1180
	33 Benzene	78	10.396	10.400	(0.953)	2157361	60.0000	61.2552
	34 Methyl tert-Amyl Ether (TAME)	73	10.406	10.420	(0.954)	1526018	60.0000	63.7747(A)
	35 1,2-Dichloroethane	62	10.495	10.508	(0.962)	753594	60.0000	61.2903
*	36 1,4-Difluorobenzene	114	10.909	10.912	(1.000)	1081465	50.0000	
	37 Trichloroethene	95	11.303	11.307	(1.036)	520504	60.0000	62.2446
	38 Trifluorotoluene	146	11.668	11.681	(1.070)	733967	60.0000	62.7836(A)
	39 1,2-Dichloropropane	63	11.717	11.730	(1.074)	646892	60.0000	61.3736
	40 Dibromomethane	93	11.914	11.928	(1.092)	402046	60.0000	63.2771
	41 Bromodichloromethane	83	12.082	12.086	(1.108)	826426	60.0000	63.0429
	42 Tetramethyl THF	43	12.653	12.657	(1.160)	1466791	60.0000	64.7339(A)
	43 cis-1,3-Dichloropropene	75	12.712	12.716	(1.165)	989543	60.0000	64.4339
	44 4-Methyl-2-Pentanone	43	12.850	12.854	(1.178)	797393	60.0000	67.8049
	45 Toluene-d8	98	13.038	13.041	(1.195)	1221169	50.0000	51.4775
	46 Toluene	92	13.136	13.140	(1.204)	1105929	60.0000	61.2422
	47 trans-1,3-Dichloropropene	75	13.481	13.485	(1.236)	883176	60.0000	63.8273
	48 1,1,2-Trichloroethane	85	13.747	13.751	(1.260)	292190	60.0000	63.2305
	49 Tetrachloroethene	166	13.865	13.869	(0.924)	510179	60.0000	61.5375
	50 2-Hexanone	43	13.974	13.977	(0.931)	578398	60.0000	66.2628
	51 1,3-Dichloropropane	76	13.994	13.998	(0.932)	927992	60.0000	62.7710
	52 Dibromochloromethane	129	14.279	14.283	(0.951)	598219	60.0000	63.0524
	53 1,2-Dibromoethane	107	14.476	14.481	(1.327)	496355	60.0000	66.2854
*	54 Chlorobenzene-d5	117	15.009	15.012	(1.000)	980930	50.0000	
	55 Chlorobenzene	112	15.048	15.052	(1.003)	1127199	60.0000	59.0683
	56 Ethylbenzene	91	15.097	15.101	(1.006)	2191626	60.0000	61.4762
	57 1,1,1,2-Tetrachloroethane	131	15.127	15.131	(1.008)	487074	60.0000	61.7777
	58 m,p-Xylenes	106	15.235	15.239	(1.015)	1429818	120.000	124.2626
	59 o-Xylene	106	15.748	15.742	(1.049)	732312	60.0000	62.4593
	60 Styrene	104	15.767	15.772	(1.051)	1276785	60.0000	62.3023
	61 Bromoform	173	16.073	16.077	(1.071)	441374	60.0000	62.8546
	62 Isopropylbenzene	105	16.142	16.146	(0.911)	1899114	60.0000	62.6724
	63 Cyclohexanone_	55	16.398	16.402	(0.925)	850776	600.000	561.3764(A)
	64 Bromofluorobenzene	95	16.418	16.421	(0.926)	533988	50.0000	49.1215
	65 1,1,2,2-Tetrachloroethane	83	16.566	16.569	(0.934)	772092	60.0000	63.6822
	66 Propylbenzene	91	16.625	16.619	(0.938)	2520925	60.0000	62.8656
	67 Bromobenzene	156	16.625	16.619	(0.938)	615339	60.0000	63.4655
	68 1,2,3-Trichloropropane	75	16.654	16.658	(0.939)	577433	60.0000	62.3983
	69 2-Chlorotoluene	91	16.802	16.806	(0.948)	1583322	60.0000	60.0751
	70 1,3,5-Trimethylbenzene	105	16.802	16.806	(0.948)	1456127	60.0000	61.9033
	71 4-Chlorotoluene	91	16.921	16.924	(0.954)	1484269	60.0000	62.6475
	72 tert-Butylbenzene	119	17.177	17.180	(0.969)	1237982	60.0000	61.5233
	73 1,2,4-Trimethylbenzene	105	17.246	17.239	(0.973)	1398038	60.0000	63.1440
	74 sec-Butylbenzene	105	17.423	17.417	(0.983)	1966480	60.0000	61.5997
	75 para-Isopropyl Toluene	119	17.561	17.565	(0.991)	1493719	60.0000	62.6901
	76 1,3-Dichlorobenzene	146	17.650	17.653	(0.996)	992293	60.0000	61.4324

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG12.D
Report Date: 17-Mar-2008 08:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 77 1,4-Dichlorobenzene-d4	152	17.729	17.732	(1.000)	566451	50.0000	
78 1,4-Dichlorobenzene	146	17.758	17.752	(1.002)	1041448	60.0000	62.3894
79 n-Butylbenzene	91	18.024	18.028	(1.017)	1569420	60.0000	65.7829
80 1,2-Dichlorobenzene	146	18.212	18.206	(1.027)	991834	60.0000	62.6657
81 1,2-Dibromo-3-Chloropropane	75	19.158	19.162	(1.081)	130619	60.0000	65.3249
82 1,2,4-Trichlorobenzene	180	20.222	20.226	(1.141)	566557	60.0000	69.8766
83 Hexachlorobutadiene	225	20.330	20.325	(1.147)	401329	60.0000	61.7994
84 Naphthalene	128	20.626	20.630	(1.163)	1077522	60.0000	74.6702
85 1,2,3-Trichlorobenzene	180	21.001	20.995	(1.185)	575948	60.0000	70.6505

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECC13.D
Date : 16-MAR-2008 22:13
Client ID: DYNA P&T
Sample Info: ICAL,S8668,0.015/100,S8400,0.015/100
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA05.i
Operator: VOC
Column diameter: 0.25

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG13.D
Report Date: 17-Mar-2008 08:14

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 22:13 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICAL,S8668,0.015/100,S8400,0.015/100
Misc Info : 75PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\826GOX5S.m
Meth Date : 17-Mar-2008 08:14 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 22:13 Cal File: ECG13.D
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

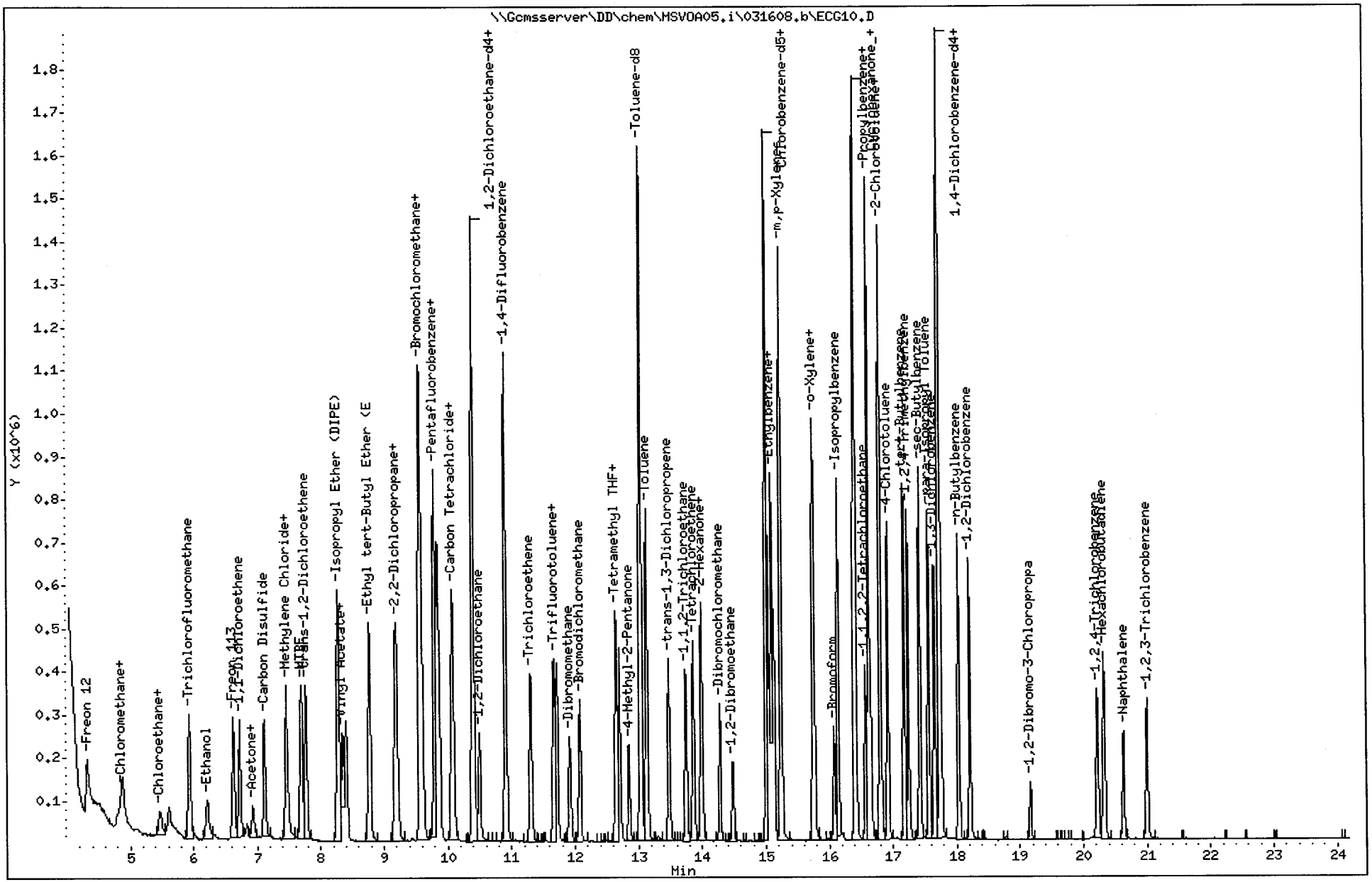
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.322	4.339	(0.441)	1100948	75.0000	66.5527(M)
2 Chloromethane	50	4.834	4.802	(0.494)	817587	75.0000	80.3348(M)
3 Vinyl Chloride	62	4.873	4.891	(0.498)	800518	75.0000	68.8613(M)
4 Bromomethane	94	5.465	5.483	(0.558)	493911	75.0000	88.0790(M)
5 Chloroethane	64	5.613	5.620	(0.573)	393607	75.0000	74.4640(M)
6 Trichlorofluoromethane	101	5.938	5.955	(0.606)	1042912	75.0000	69.0086(M)
7 Ethanol	45	6.214	6.231	(0.635)	890442	7500.00	7596.8605(A)
8 Freon 113	101	6.628	6.646	(0.677)	615708	75.0000	70.8166
9 1,1-Dichloroethene	96	6.726	6.744	(0.687)	456121	75.0000	69.0322
10 Acetone	43	6.835	6.852	(0.698)	212942	75.0000	71.6458
11 Isopropanol	45	6.923	6.941	(0.707)	510863	750.000	721.5806(A)
12 Carbon Disulfide	76	7.111	7.128	(0.726)	2000064	75.0000	70.2444
13 Methylene Chloride	84	7.456	7.463	(0.761)	662790	75.0000	72.4300
14 tert-Butyl Alcohol (TBA)	59	7.465	7.483	(0.762)	731866	750.000	707.2781(A)
15 MTBE	73	7.692	7.700	(0.786)	1837251	75.0000	74.1370
16 trans-1,2-Dichloroethene	96	7.761	7.779	(0.793)	603360	75.0000	73.9219
17 Isopropyl Ether (DIPE)	45	8.273	8.281	(0.845)	2999730	75.0000	74.9400(A)
18 Vinyl Acetate	43	8.342	8.359	(0.852)	1868104	75.0000	71.9475
19 1,1-Dichloroethane	63	8.402	8.409	(0.858)	1327119	75.0000	72.8284
20 Ethyl tert-Butyl Ether (ETBE)	59	8.766	8.784	(0.895)	2295106	75.0000	75.5855(A)
21 2,2-Dichloropropane	77	9.180	9.188	(0.938)	916486	75.0000	72.6817
22 2-Butanone	43	9.180	9.198	(0.938)	443939	75.0000	73.8624

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG13.D
Report Date: 17-Mar-2008 08:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.200	9.218	(0.940)	692700	75.0000	75.5594
	24 Bromochloromethane	128	9.565	9.573	(0.977)	344476	75.0000	75.3119
	25 Tetrahydrofuran	42	9.565	9.572	(0.977)	2315789	750.000	689.1502(A)
	26 Chloroform	83	9.604	9.612	(0.981)	1308755	75.0000	71.6337
*	27 Pentafluorobenzene	168	9.791	9.799	(1.000)	747625	50.0000	
	28 Dibromofluoromethane	113	9.840	9.848	(1.005)	435684	50.0000	48.1749
	29 1,1,1-Trichloroethane	97	9.870	9.878	(1.008)	854281	75.0000	69.9750
	30 Carbon Tetrachloride	117	10.067	10.075	(0.923)	726095	75.0000	72.1444
	31 1,1-Dichloropropene	75	10.087	10.094	(0.925)	896579	75.0000	71.7481
	32 1,2-Dichloroethane-d4	65	10.382	10.400	(0.952)	462309	50.0000	47.2017
	33 Benzene	78	10.392	10.400	(0.953)	2534350	75.0000	73.1824
	34 Methyl tert-Amyl Ether (TAME)	73	10.412	10.420	(0.955)	1839138	75.0000	78.1670(A)
	35 1,2-Dichloroethane	62	10.501	10.508	(0.963)	915725	75.0000	75.7424
*	36 1,4-Difluorobenzene	114	10.905	10.912	(1.000)	1063390	50.0000	
	37 Trichloroethene	95	11.299	11.307	(1.036)	600070	75.0000	72.9792
	38 Trifluorotoluene	146	11.674	11.681	(1.070)	853417	75.0000	74.2422(A)
	39 1,2-Dichloropropane	63	11.713	11.730	(1.074)	774382	75.0000	74.7180
	40 Dibromomethane	93	11.920	11.928	(1.093)	484550	75.0000	77.5585
	41 Bromodichloromethane	83	12.078	12.086	(1.108)	972905	75.0000	75.4783
	42 Tetramethyl THF	43	12.649	12.657	(1.160)	1745521	75.0000	78.3445(A)
	43 cis-1,3-Dichloropropene	75	12.708	12.716	(1.165)	1149838	75.0000	76.1442
	44 4-Methyl-2-Pentanone	43	12.846	12.854	(1.178)	887844	75.0000	76.7795
	45 Toluene-d8	98	13.034	13.041	(1.195)	1199271	50.0000	51.4137
	46 Toluene	92	13.132	13.140	(1.204)	1332860	75.0000	75.0633
	47 trans-1,3-Dichloropropene	75	13.477	13.485	(1.236)	1037761	75.0000	76.2739
	48 1,1,2-Trichloroethane	85	13.743	13.751	(1.260)	348928	75.0000	76.7921
	49 Tetrachloroethene	166	13.861	13.869	(0.924)	569768	75.0000	73.9044
	50 2-Hexanone	43	13.980	13.977	(0.932)	607459	75.0000	74.8368
	51 1,3-Dichloropropane	76	13.989	13.998	(0.932)	1046892	75.0000	76.1503
	52 Dibromochloromethane	129	14.275	14.283	(0.951)	680794	75.0000	77.1635
	53 1,2-Dibromoethane	107	14.482	14.481	(1.328)	578603	75.0000	78.5826
*	54 Chlorobenzene-d5	117	15.005	15.012	(1.000)	912185	50.0000	
	55 Chlorobenzene	112	15.044	15.052	(1.003)	1333905	75.0000	75.1682
	56 Ethylbenzene	91	15.093	15.101	(1.006)	2421140	75.0000	73.0324
	57 1,1,1,2-Tetrachloroethane	131	15.133	15.131	(1.009)	567142	75.0000	77.3542
	58 m,p-Xylenes	106	15.241	15.239	(1.016)	1612508	150.000	150.7012
	59 o-Xylene	106	15.744	15.742	(1.049)	842549	75.0000	77.2772
	60 Styrene	104	15.763	15.772	(1.051)	1465054	75.0000	76.8767
	61 Bromoform	173	16.079	16.077	(1.072)	519297	75.0000	79.5246
	62 Isopropylbenzene	105	16.148	16.146	(0.911)	2181203	75.0000	74.4668
	63 Cyclohexanone_	55	16.394	16.402	(0.925)	1135994	750.000	775.4537(A)
	64 Bromofluorobenzene	95	16.414	16.421	(0.926)	508104	50.0000	48.3542
	65 1,1,2,2-Tetrachloroethane	83	16.572	16.569	(0.935)	879237	75.0000	75.0233
	66 Propylbenzene	91	16.621	16.619	(0.938)	2867005	75.0000	73.9644
	67 Bromobenzene	156	16.621	16.619	(0.938)	723569	75.0000	77.2048
	68 1,2,3-Trichloropropane	75	16.660	16.658	(0.940)	676658	75.0000	75.6452
	69 2-Chlorotoluene	91	16.798	16.806	(0.948)	1917470	75.0000	75.2653
	70 1,3,5-Trimethylbenzene	105	16.808	16.806	(0.948)	1745947	75.0000	76.7868
	71 4-Chlorotoluene	91	16.926	16.924	(0.955)	1691034	75.0000	73.8387
	72 tert-Butylbenzene	119	17.173	17.180	(0.969)	1463930	75.0000	75.2639
	73 1,2,4-Trimethylbenzene	105	17.242	17.239	(0.973)	1701230	75.0000	79.4909
	74 sec-Butylbenzene	105	17.419	17.417	(0.983)	2203924	75.0000	71.4211
	75 para-Isopropyl Toluene	119	17.557	17.565	(0.991)	1734419	75.0000	75.3052
	76 1,3-Dichlorobenzene	146	17.646	17.653	(0.996)	1169469	75.0000	74.9009

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG10.D
Date : 16-MAR-2008 20:35
Client ID: DYNA P&T
Instrument: MSVOA05.i
Sample Info: ICAL,S8668,0.004/100,S8400,0.004/100
Purge Volume: 5.0
Operator: VOC
Column phase: RTX 624
Column diameter: 0.25



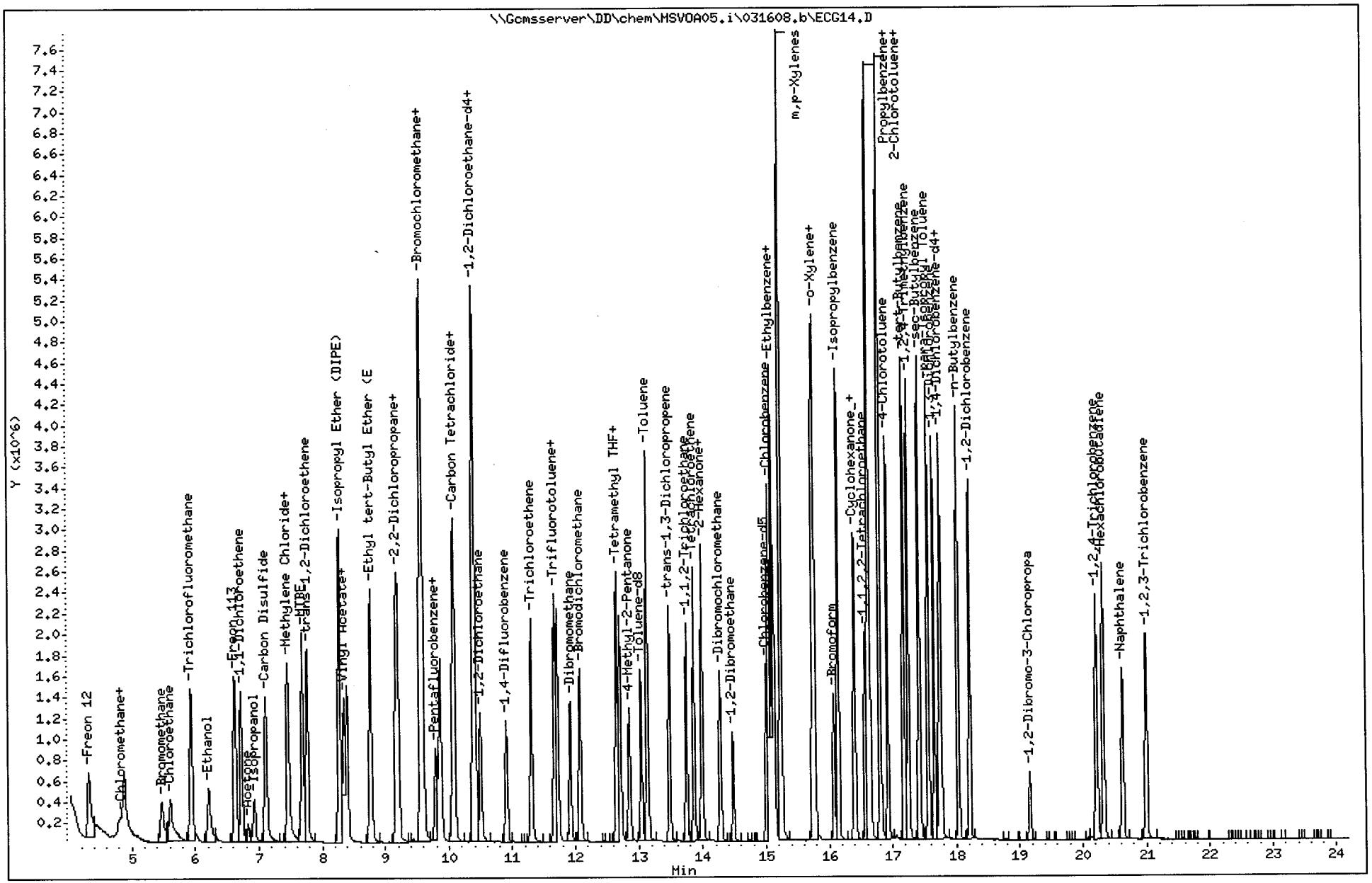
Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG13.D
Report Date: 17-Mar-2008 08:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 77 1,4-Dichlorobenzene-d4	152	17.725	17.732	(1.000)	547547	50.0000	
78 1,4-Dichlorobenzene	146	17.754	17.752	(1.002)	1224881	75.0000	75.9116
79 n-Butylbenzene	91	18.030	18.028	(1.017)	1810475	75.0000	78.5068
80 1,2-Dichlorobenzene	146	18.208	18.206	(1.027)	1154894	75.0000	75.4873
81 1,2-Dibromo-3-Chloropropane	75	19.163	19.162	(1.081)	145656	75.0000	75.3601
82 1,2,4-Trichlorobenzene	180	20.218	20.226	(1.141)	651735	75.0000	83.1572
83 Hexachlorobutadiene	225	20.326	20.325	(1.147)	490238	75.0000	78.0965
84 Naphthalene	128	20.632	20.630	(1.164)	1235362	75.0000	88.5639
85 1,2,3-Trichlorobenzene	180	20.997	20.995	(1.185)	650560	75.0000	82.5582

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG14.D
Date : 16-MAR-2008 22:46
Client ID: DYNA P&T
Instrument: MSVOA05.i
Sample Info: ICAL,S8668,0.02/100,S8400,0.02/100
Operator: VOC
Purge Volume: 5.0
Column phase: RTX 624
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG14.D
Report Date: 17-Mar-2008 08:15

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 22:46 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICAL,S8668,0.02/100,S8400,0.02/100
Misc Info : 100PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\826GOX5S.m
Meth Date : 17-Mar-2008 08:15 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 22:46 Cal File: ECG14.D
Als bottle: 14 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.324	4.339	(0.442)	1966043	100.000	116.0012(M)
2 Chloromethane	50	4.827	4.802	(0.493)	1246230	100.000	107.9675(M)
3 Vinyl Chloride	62	4.876	4.891	(0.498)	1325385	100.000	111.1498(AM)
4 Bromomethane	94	5.468	5.483	(0.558)	806206	100.000	135.2511(M)
5 Chloroethane	64	5.606	5.620	(0.572)	651536	100.000	117.5639(M)
6 Trichlorofluoromethane	101	5.931	5.955	(0.606)	1770031	100.000	114.5228(M)
7 Ethanol	45	6.207	6.231	(0.634)	1276515	10000.0	10663.7619(A)
8 Freon 113	101	6.621	6.646	(0.676)	974594	100.000	109.7590
9 1,1-Dichloroethene	96	6.719	6.744	(0.686)	704636	100.000	104.4221
10 Acetone	43	6.828	6.852	(0.697)	295953	100.000	97.5008
11 Isopropanol	45	6.926	6.941	(0.707)	767030	1000.00	1060.8372(A)
12 Carbon Disulfide	76	7.113	7.128	(0.726)	3093157	100.000	106.3717
13 Methylene Chloride	84	7.448	7.463	(0.761)	920681	100.000	98.5162
14 tert-Butyl Alcohol (TBA)	59	7.468	7.483	(0.763)	1087121	1000.00	1028.7090(A)
15 MTBE	73	7.685	7.700	(0.785)	2678305	100.000	105.8236
16 trans-1,2-Dichloroethene	96	7.764	7.779	(0.793)	894739	100.000	107.3369
17 Isopropyl Ether (DIPE)	45	8.276	8.281	(0.845)	4125937	100.000	100.9277(A)
18 Vinyl Acetate	43	8.345	8.359	(0.852)	2743822	100.000	103.4729
19 1,1-Dichloroethane	63	8.395	8.409	(0.857)	1876752	100.000	100.8448
20 Ethyl tert-Butyl Ether (ETBE)	59	8.769	8.784	(0.895)	3070943	100.000	99.0292(A)
21 2,2-Dichloropropane	77	9.173	9.188	(0.937)	1328913	100.000	100.8019
22 2-Butanone	43	9.183	9.198	(0.938)	590320	100.000	96.1709

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG14.D
Report Date: 17-Mar-2008 08:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	cis-1,2-Dichloroethene	96	9.203	9.218	(0.940)	954158	100.000	101.9107
24	Bromochloromethane	128	9.557	9.573	(0.976)	505372	100.000	108.1862
25	Tetrahydrofuran	42	9.567	9.572	(0.977)	3369052	1000.00	981.6997(A)
26	Chloroform	83	9.597	9.612	(0.980)	1888384	100.000	101.2059
* 27	Pentafluorobenzene	168	9.794	9.799	(1.000)	763533	50.0000	
28	Dibromofluoromethane	113	9.843	9.848	(1.005)	446220	50.0000	48.3119
29	1,1,1-Trichloroethane	97	9.873	9.878	(1.008)	1290592	100.000	103.5111
30	Carbon Tetrachloride	117	10.070	10.075	(0.923)	1142873	100.000	107.7938
31	1,1-Dichloropropene	75	10.090	10.094	(0.925)	1419030	100.000	107.7954
32	1,2-Dichloroethane-d4	65	10.385	10.400	(0.952)	478137	50.0000	46.3408
33	Benzene	78	10.395	10.400	(0.953)	3595385	100.000	98.5535
34	Methyl tert-Amyl Ether (TAME)	73	10.405	10.420	(0.954)	2479702	100.000	100.0449(A)
35	1,2-Dichloroethane	62	10.494	10.508	(0.962)	1261940	100.000	99.0831
* 36	1,4-Difluorobenzene	114	10.908	10.912	(1.000)	1120227	50.0000	
37	Trichloroethene	95	11.302	11.307	(1.036)	923246	100.000	106.5863
38	Trifluorotoluene	146	11.666	11.681	(1.070)	1393793	100.000	115.0998(A)
39	1,2-Dichloropropane	63	11.716	11.730	(1.074)	1124879	100.000	103.0297
40	Dibromomethane	93	11.923	11.928	(1.093)	691772	100.000	105.1091
41	Bromodichloromethane	83	12.080	12.086	(1.108)	1380111	100.000	101.6372
42	Tetramethyl THF	43	12.652	12.657	(1.160)	2263335	100.000	96.4315(A)
43	cis-1,3-Dichloropropene	75	12.711	12.716	(1.165)	1574418	100.000	98.9707
44	4-Methyl-2-Pentanone	43	12.849	12.854	(1.178)	1264164	100.000	103.7764
45	Toluene-d8	98	13.036	13.041	(1.195)	1246768	50.0000	50.7380
46	Toluene	92	13.135	13.140	(1.204)	1875103	100.000	100.2432
47	trans-1,3-Dichloropropene	75	13.480	13.485	(1.236)	1430121	100.000	99.7788
48	1,1,2-Trichloroethane	85	13.746	13.751	(1.260)	485261	100.000	101.3778
49	Tetrachloroethene	166	13.864	13.869	(0.924)	903783	100.000	110.7681
50	2-Hexanone	43	13.982	13.977	(0.932)	914308	100.000	106.4312
51	1,3-Dichloropropane	76	13.992	13.998	(0.932)	1511173	100.000	103.8633
52	Dibromochloromethane	129	14.278	14.283	(0.951)	992476	100.000	106.2905
53	1,2-Dibromoethane	107	14.475	14.481	(1.327)	805286	100.000	103.8204
* 54	Chlorobenzene-d5	117	15.007	15.012	(1.000)	965395	50.0000	
55	Chlorobenzene	112	15.047	15.052	(1.003)	1959552	100.000	104.3383
56	Ethylbenzene	91	15.096	15.101	(1.006)	3662624	100.000	104.3917
57	1,1,1,2-Tetrachloroethane	131	15.135	15.131	(1.009)	834674	100.000	107.5689
58	m,p-Xylenes	106	15.234	15.239	(1.015)	2450267	200.000	216.3745(A)
59	o-Xylene	106	15.746	15.742	(1.049)	1187678	100.000	102.9279
60	Styrene	104	15.766	15.772	(1.051)	2151356	100.000	106.6673
61	Bromoform	173	16.082	16.077	(1.072)	751363	100.000	108.7210
62	Isopropylbenzene	105	16.141	16.146	(0.910)	3294855	100.000	106.1279
63	Cyclohexanone_	55	16.397	16.402	(0.925)	1228240	1000.00	791.0247(A)
64	Bromofluorobenzene	95	16.417	16.421	(0.926)	538274	50.0000	48.3294
65	1,1,2,2-Tetrachloroethane	83	16.574	16.569	(0.935)	1262134	100.000	101.6068
66	Propylbenzene	91	16.624	16.619	(0.938)	4217595	100.000	102.6564
67	Bromobenzene	156	16.624	16.619	(0.938)	1031355	100.000	103.8244
68	1,2,3-Trichloropropane	75	16.663	16.658	(0.940)	946970	100.000	99.8792
69	2-Chlorotoluene	91	16.801	16.806	(0.948)	2747983	100.000	101.7670
70	1,3,5-Trimethylbenzene	105	16.811	16.806	(0.948)	2525593	100.000	104.7963
71	4-Chlorotoluene	91	16.919	16.924	(0.954)	2431017	100.000	100.1491
72	tert-Butylbenzene	119	17.175	17.180	(0.969)	2249562	100.000	109.1167
73	1,2,4-Trimethylbenzene	105	17.244	17.239	(0.973)	2480366	100.000	109.3445
74	sec-Butylbenzene	105	17.422	17.417	(0.983)	3521485	100.000	107.6670
75	para-Isopropyl Toluene	119	17.560	17.565	(0.991)	2651339	100.000	108.6084
76	1,3-Dichlorobenzene	146	17.649	17.653	(0.996)	1785100	100.000	107.8668

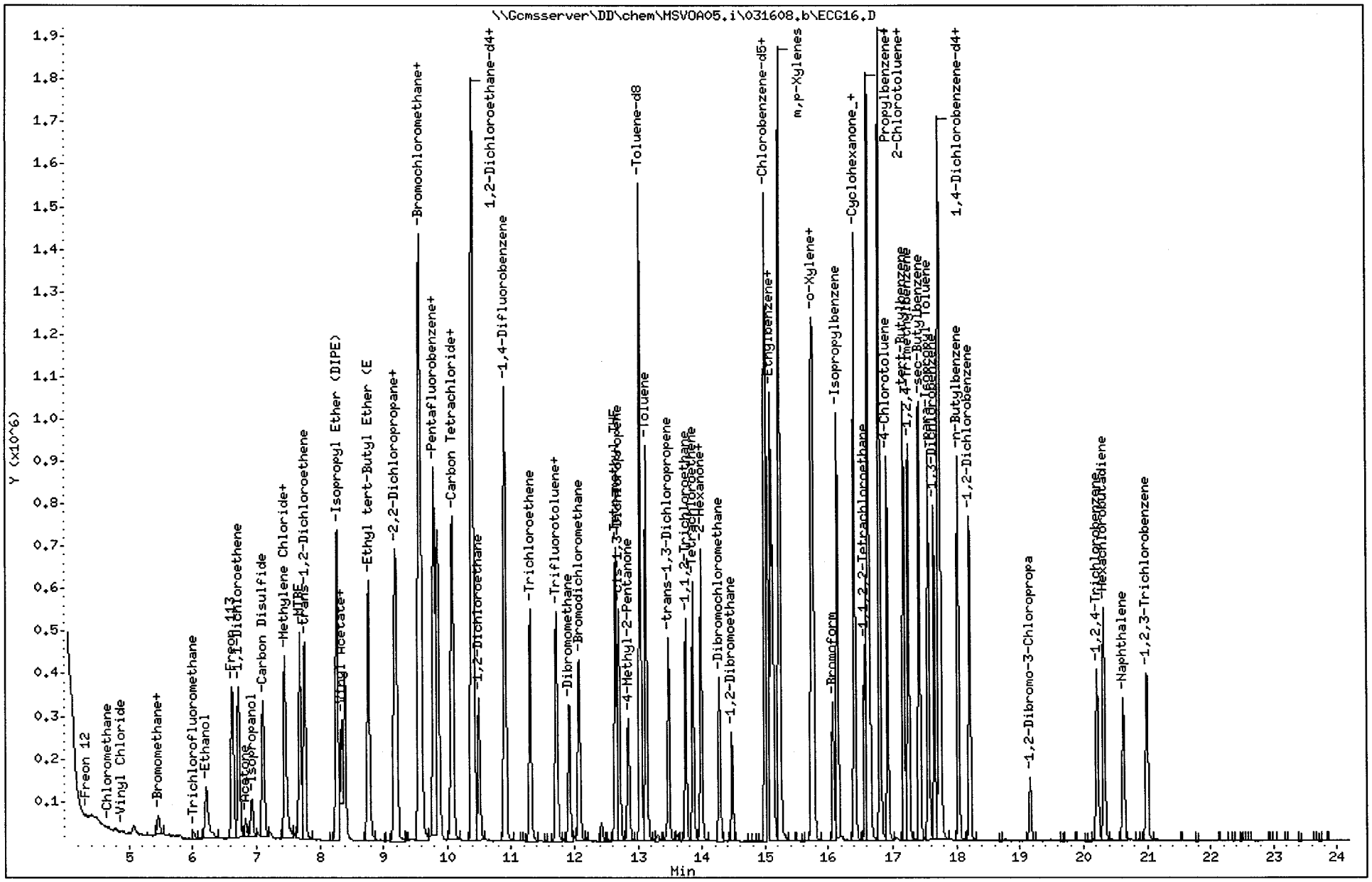
Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG14.D
Report Date: 17-Mar-2008 08:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 77 1,4-Dichlorobenzene-d4	152	17.727	17.732	(1.000)	580356	50.0000	
78 1,4-Dichlorobenzene	146	17.757	17.752	(1.002)	1799464	100.000	105.2167
79 n-Butylbenzene	91	18.023	18.028	(1.017)	2781774	100.000	113.8056
80 1,2-Dichlorobenzene	146	18.210	18.206	(1.027)	1718826	100.000	105.9963
81 1,2-Dibromo-3-Chloropropane	75	19.156	19.162	(1.081)	213861	100.000	104.3931
82 1,2,4-Trichlorobenzene	180	20.221	20.226	(1.141)	1003194	100.000	120.7649
83 Hexachlorobutadiene	225	20.329	20.325	(1.147)	768651	100.000	115.5262
84 Naphthalene	128	20.625	20.630	(1.163)	1757709	100.000	118.8875
85 1,2,3-Trichlorobenzene	180	20.999	20.995	(1.185)	948219	100.000	113.5295

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG16.D
Date : 16-MAR-2008 23:52
Client ID: DYNA P&T
Instrument: MSVOA05.i
Sample Info: ICV,S8648,10000X,S8538,10000X
Purge Volume: 5.0
Operator: VOC
Column phase: RTX 624
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG16.D
Report Date: 17-Mar-2008 08:45

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2008 23:52 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICV,S8648,10000X,S8538,10000X
Misc Info : 25PPB, NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\826GOX5S.m
Meth Date : 17-Mar-2008 08:56 target Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	4.326	4.339	(0.442)	1277	1.96183	1.9618
2 Chloromethane	50	4.661	4.802	(0.476)	9503	0.84143	0.8414
3 Vinyl Chloride	62	4.868	4.891	(0.497)	1189	0.37850	0.3785(a)
4 Bromomethane	94	5.449	5.483	(0.556)	49918	9.81506	9.8150
5 Chloroethane	64	5.636	5.620	(0.575)	125	0.81838	0.8183
6 Trichlorofluoromethane	101	5.932	5.955	(0.606)	1174	1.89201	1.8920
7 Ethanol	45	6.208	6.231	(0.634)	287890	2457.96	2457.9561(A)
8 Freon 113	101	6.622	6.646	(0.676)	219538	25.2691	25.2690
9 1,1-Dichloroethene	96	6.730	6.744	(0.687)	185982	28.1684	28.1683
10 Acetone	43	6.829	6.852	(0.697)	78934	25.6173	25.6173
11 Isopropanol	45	6.927	6.941	(0.707)	179012	253.036	253.0355(A)
12 Carbon Disulfide	76	7.105	7.128	(0.725)	689467	24.2326	24.2326
13 Methylene Chloride	84	7.450	7.463	(0.761)	247993	27.1207	27.1207
14 tert-Butyl Alcohol (TBA)	59	7.469	7.483	(0.763)	136046	131.572	131.5720(A)
15 MTBE	73	7.686	7.700	(0.785)	645213	26.0549	26.0548
16 trans-1,2-Dichloroethene	96	7.765	7.779	(0.793)	223206	27.3666	27.3666
17 Isopropyl Ether (DIPE)	45	8.268	8.281	(0.844)	1032175	25.8050	25.8050(A)
18 Vinyl Acetate	43	8.346	8.359	(0.852)	546568	21.0658	21.0658
19 1,1-Dichloroethane	63	8.396	8.409	(0.857)	499297	27.4201	27.4200
20 Ethyl tert-Butyl Ether (ETBE)	59	8.770	8.784	(0.895)	774362	25.5211	25.5210(A)
21 2,2-Dichloropropane	77	9.174	9.188	(0.937)	294723	22.6072	22.6071
22 2-Butanone	43	9.184	9.198	(0.938)	148624	24.7462	24.7461

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG16.D
Report Date: 17-Mar-2008 08:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
23	cis-1,2-Dichloroethene	96	9.204	9.218	(0.940)	259474	28.3241	28.3241
24	Bromochloromethane	128	9.559	9.573	(0.976)	122461	26.7930	26.7930
25	Tetrahydrofuran	42	9.569	9.572	(0.977)	886018	263.862	263.8618(A)
26	Chloroform	83	9.598	9.612	(0.980)	483400	26.4780	26.4780
* 27	Pentafluorobenzene	168	9.795	9.799	(1.000)	747076	50.0000	
28	Dibromofluoromethane	113	9.844	9.848	(1.005)	428334	47.3970	47.3970
29	1,1,1-Trichloroethane	97	9.864	9.878	(1.007)	319160	26.1619	26.1619
30	Carbon Tetrachloride	117	10.071	10.075	(0.923)	283012	28.7367	28.7367
31	1,1-Dichloropropene	75	10.081	10.094	(0.924)	352999	28.8681	28.8681
32	1,2-Dichloroethane-d4	65	10.386	10.400	(0.952)	457166	47.7004	47.7004
33	Benzene	78	10.396	10.400	(0.953)	1002679	29.5887	29.5886
34	Methyl tert-Amyl Ether (TAME)	73	10.406	10.420	(0.954)	669991	29.1005	29.1005(A)
35	1,2-Dichloroethane	62	10.495	10.508	(0.962)	323612	27.3541	27.3540
* 36	1,4-Difluorobenzene	114	10.909	10.912	(1.000)	1040566	50.0000	
37	Trichloroethene	95	11.303	11.307	(1.036)	239671	29.7876	29.7876
38	Trifluorotoluene	146	11.678	11.681	(1.070)	1752	0.15576	0.1557(aA)
39	1,2-Dichloropropane	63	11.717	11.730	(1.074)	272201	26.8400	26.8400
40	Dibromomethane	93	11.914	11.928	(1.092)	166622	27.2550	27.2550
41	Bromodichloromethane	83	12.082	12.086	(1.107)	355588	28.1918	28.1917
42	Tetramethyl THF	43	12.653	12.657	(1.160)	607923	27.8840	27.8840(A)
43	cis-1,3-Dichloropropene	75	12.712	12.716	(1.165)	383911	25.9809	25.9808
44	4-Methyl-2-Pentanone	43	12.850	12.854	(1.178)	293151	25.9074	25.9073
45	Toluene-d8	98	13.038	13.041	(1.195)	1161521	50.8876	50.8875
46	Toluene	92	13.136	13.140	(1.204)	486955	28.0256	28.0256
47	trans-1,3-Dichloropropene	75	13.481	13.485	(1.236)	302198	22.6983	22.6983
48	1,1,2-Trichloroethane	85	13.747	13.751	(1.260)	118606	26.6754	26.6753
49	Tetrachloroethene	166	13.865	13.869	(0.924)	216717	28.2845	28.2844
50	2-Hexanone	43	13.984	13.977	(0.932)	207713	25.7481	25.7480
51	1,3-Dichloropropane	76	13.993	13.998	(0.932)	373727	27.3531	27.3531
52	Dibromochloromethane	129	14.279	14.283	(0.951)	240476	27.4252	27.4252
53	1,2-Dibromoethane	107	14.476	14.481	(1.327)	197642	27.4314	27.4314
* 54	Chlorobenzene-d5	117	15.009	15.012	(1.000)	906569	50.0000	
55	Chlorobenzene	112	15.048	15.052	(1.003)	481800	27.3186	27.3185
56	Ethylbenzene	91	15.097	15.101	(1.006)	888568	26.9692	26.9692
57	1,1,1,2-Tetrachloroethane	131	15.127	15.131	(1.008)	196317	26.9421	26.9421
58	m,p-Xylenes	106	15.235	15.239	(1.015)	564165	53.0522	53.0521
59	o-Xylene	106	15.748	15.742	(1.049)	294403	27.1695	27.1694
60	Styrene	104	15.767	15.772	(1.051)	529945	27.9804	27.9804
61	Bromoform	173	16.083	16.077	(1.072)	171065	26.3590	26.3590
62	Isopropylbenzene	105	16.142	16.146	(0.911)	684325	24.7267	24.7267
63	Cyclohexanone_	55	16.398	16.402	(0.925)	97245	70.2562	70.2562(A)
64	Bromofluorobenzene	95	16.418	16.421	(0.926)	497490	50.1076	50.1076
65	1,1,2,2-Tetrachloroethane	83	16.566	16.569	(0.934)	291162	26.2944	26.2943
66	Propylbenzene	91	16.625	16.619	(0.938)	994756	27.1612	27.1611
67	Bromobenzene	156	16.615	16.619	(0.937)	239390	27.0339	27.0338
68	1,2,3-Trichloropropane	75	16.654	16.658	(0.939)	235696	27.8870	27.8870(M)
69	2-Chlorotoluene	91	16.802	16.806	(0.948)	668543	27.7737	27.7736
70	1,3,5-Trimethylbenzene	105	16.802	16.806	(0.948)	600827	27.9668	27.9668
71	4-Chlorotoluene	91	16.920	16.924	(0.954)	571992	26.4338	26.4338
72	tert-Butylbenzene	119	17.177	17.180	(0.969)	494074	26.8842	26.8841
73	1,2,4-Trimethylbenzene	105	17.246	17.239	(0.973)	565709	27.9760	27.9759
74	sec-Butylbenzene	105	17.423	17.417	(0.983)	843266	28.9223	28.9222
75	para-Isopropyl Toluene	119	17.561	17.565	(0.991)	583630	26.8193	26.8192
76	1,3-Dichlorobenzene	146	17.650	17.653	(0.996)	370219	25.0955	25.0954

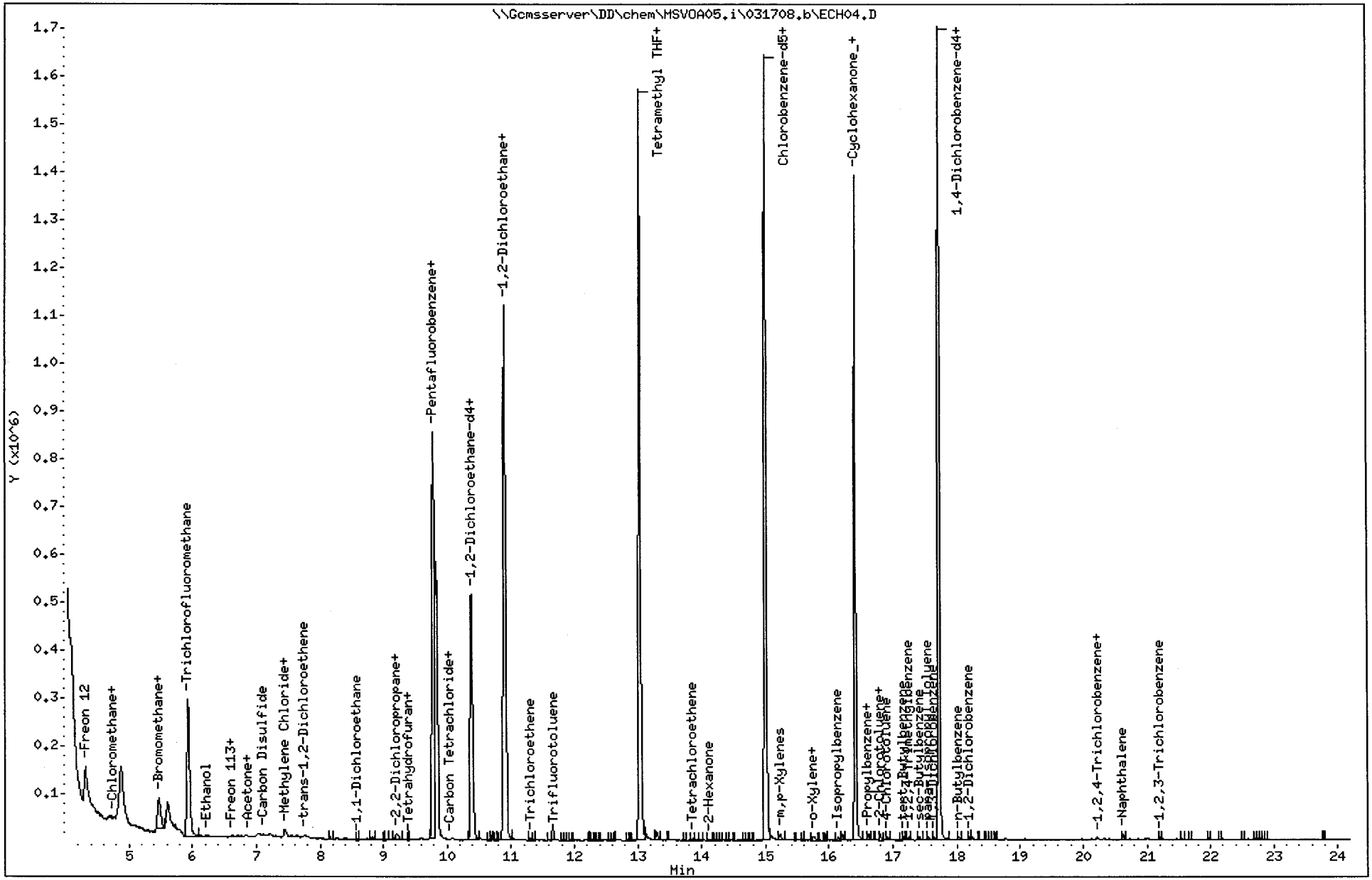
Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031608.b\ECG16.D
Report Date: 17-Mar-2008 08:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
* 77 1,4-Dichlorobenzene-d4	152	17.729	17.732	(1.000)	517349	50.0000	
78 1,4-Dichlorobenzene	146	17.758	17.752	(1.002)	385400	25.2792	25.2792
79 n-Butylbenzene	91	18.024	18.028	(1.017)	607643	27.8870	27.8869
80 1,2-Dichlorobenzene	146	18.202	18.206	(1.027)	374802	25.9282	25.9281
81 1,2-Dibromo-3-Chloropropane	75	19.167	19.162	(1.081)	46522	25.4747	25.4747
82 1,2,4-Trichlorobenzene	180	20.222	20.226	(1.141)	173896	26.3077	26.3076
83 Hexachlorobutadiene	225	20.321	20.325	(1.146)	158049	26.6474	26.6473
84 Naphthalene	128	20.626	20.630	(1.163)	351553	28.7383	28.7383
85 1,2,3-Trichlorobenzene	180	21.001	20.995	(1.185)	185066	26.5958	26.5958

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031708.b\ECH04.D
Date : 17-MAR-2008 09:47
Client ID: DYNA P&T
Instrument: MSVOA05.i
Sample Info: ICV,S8534,10000X
Purge Volume: 5.0
Operator: VOC
Column phase: RTX 624
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031708.b\ECH04.D
Report Date: 17-Mar-2008 10:27

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\031708.b\ECH04.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2008 09:47 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : ICV,S8534,10000X
Misc Info : 25PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\031708.b\826GOX5S.m
Meth Date : 17-Mar-2008 09:36 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1	Freon 12	85	4.316	4.339	(0.441)	256585	13.2519	13.2519(M)
2	Chloromethane	50	4.868	4.802	(0.497)	273893	24.4913	24.4913(M)
3	Vinyl Chloride	62	4.878	4.891	(0.498)	262978	21.9065	21.9065(M)
4	Bromomethane	94	5.469	5.483	(0.559)	132421	24.0913	24.0913(M)
5	Chloroethane	64	5.607	5.620	(0.573)	125661	22.0966	22.0966(M)
6	Trichlorofluoromethane	101	5.933	5.955	(0.606)	347856	19.8244	19.8244(M)
7	Ethanol	45	6.218	6.231	(0.635)	503	4.33699	4.3369(A)
8	Freon 113	101	6.622	6.646	(0.677)	1061	0.12333	0.1233(a)
9	1,1-Dichloroethene	96	6.711	6.744	(0.686)	885	0.13537	0.1353(a)
10	Acetone	43	6.879	6.852	(0.703)	769	0.25204	0.2520(a)
11	Isopropanol	45	6.938	6.941	(0.709)	1904	2.71794	2.7179(A)
12	Carbon Disulfide	76	7.105	7.128	(0.726)	4667	0.16565	0.1656(a)
13	Methylene Chloride	84	7.450	7.463	(0.761)	9826	1.08520	1.0852
14	tert-Butyl Alcohol (TBA)	59	7.480	7.483	(0.764)	900	0.87901	0.8790(A)
16	trans-1,2-Dichloroethene	96	7.756	7.779	(0.793)	1456	0.18028	0.1802(a)
19	1,1-Dichloroethane	63	8.386	8.409	(0.857)	2734	0.15163	0.1516(a)
21	2,2-Dichloropropane	77	9.175	9.188	(0.938)	2181	0.16895	0.1689(a)
22	2-Butanone	43	9.195	9.198	(0.940)	1241	0.20867	0.2086(a)
23	cis-1,2-Dichloroethene	96	9.195	9.218	(0.940)	1335	0.14717	0.1471(a)
25	Tetrahydrofuran	42	9.569	9.572	(0.978)	1386	0.41684	0.4168(aA)
26	Chloroform	83	9.589	9.612	(0.980)	3294	0.18221	0.1822(a)
* 27	Pentafluorobenzene	168	9.786	9.799	(1.000)	739761	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\031708.b\ECH04.D
Report Date: 17-Mar-2008 10:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	28 Dibromofluoromethane	113	9.835	9.848	(1.005)	419136	46.8378	46.8378
	29 1,1,1-Trichloroethane	97	9.865	9.878	(1.008)	1358	0.11242	0.1124(a)
	30 Carbon Tetrachloride	117	10.052	10.075	(0.922)	1350	0.13550	0.1355(a)
	31 1,1-Dichloropropene	75	10.091	10.094	(0.926)	1677	0.13557	0.1355(a)
	32 1,2-Dichloroethane-d4	65	10.387	10.400	(0.953)	465379	47.9988	47.9987
	33 Benzene	78	10.397	10.400	(0.954)	6464	0.18856	0.1885(a)
	35 1,2-Dichloroethane	62	10.900	10.508	(1.000)	40957	3.42216	3.4221
*	36 1,4-Difluorobenzene	114	10.900	10.912	(1.000)	1052676	50.0000	
	37 Trichloroethene	95	11.294	11.307	(1.036)	1212	0.14890	0.1489(a)
	38 Trifluorotoluene	146	11.668	11.681	(1.071)	1285	0.11293	0.1129(aA)
	42 Tetramethyl THF	43	13.028	12.657	(1.195)	12161	0.55138	0.5513(A)
	44 4-Methyl-2-Pentanone	43	13.028	12.854	(1.195)	12160	1.06228	1.0622
	45 Toluene-d8	98	13.028	13.041	(1.195)	1213962	52.5732	52.5732
	46 Toluene	92	13.137	13.140	(1.205)	3864	0.21983	0.2198(a)
	49 Tetrachloroethene	166	13.856	13.869	(0.924)	1161	0.14568	0.1456(a)
	50 2-Hexanone	43	14.132	13.977	(0.942)	1136	0.13538	0.1353(a)
*	54 Chlorobenzene-d5	117	14.999	15.012	(1.000)	942968	50.0000	
	55 Chlorobenzene	112	15.039	15.052	(1.003)	3207	0.17482	0.1748(a)
	56 Ethylbenzene	91	15.098	15.101	(1.007)	5994	0.17490	0.1749(a)
	58 m,p-Xylenes	106	15.236	15.239	(1.016)	3759	0.33984	0.3398(a)
	59 o-Xylene	106	15.738	15.742	(1.049)	1405	0.12466	0.1246(a)
	60 Styrene	104	15.778	15.772	(1.052)	2506	0.12721	0.1272(a)
	62 Isopropylbenzene	105	16.142	16.146	(0.911)	4545	0.16534	0.1653(a)
	63 Cyclohexanone_	55	16.409	16.402	(0.925)	5090	3.70232	3.7023(A)
	64 Bromofluorobenzene	95	16.409	16.421	(0.925)	520301	52.7610	52.7609
	66 Propylbenzene	91	16.616	16.619	(0.937)	7375	0.20274	0.2027(a)
	67 Bromobenzene	156	16.616	16.619	(0.937)	1384	0.15735	0.1573(a)
	68 1,2,3-Trichloropropane	75	16.409	16.658	(0.925)	264875	31.5522	31.5522
	69 2-Chlorotoluene	91	16.803	16.806	(0.948)	4611	0.19286	0.1928(a)
	70 1,3,5-Trimethylbenzene	105	16.803	16.806	(0.948)	3747	0.17560	0.1755(a)
	71 4-Chlorotoluene	91	16.921	16.924	(0.954)	5289	0.24608	0.2460(a)
	72 tert-Butylbenzene	119	17.177	17.180	(0.969)	2414	0.13225	0.1322(a)
	73 1,2,4-Trimethylbenzene	105	17.236	17.239	(0.972)	3866	0.19248	0.1924(a)
	74 sec-Butylbenzene	105	17.424	17.417	(0.983)	4655	0.16074	0.1607(a)
	75 para-Isopropyl Toluene	119	17.552	17.565	(0.990)	3382	0.15647	0.1564(a)
	76 1,3-Dichlorobenzene	146	17.650	17.653	(0.996)	2856	0.19491	0.1949(a)
*	77 1,4-Dichlorobenzene-d4	152	17.729	17.732	(1.000)	513860	50.0000	
	78 1,4-Dichlorobenzene	146	17.759	17.752	(1.002)	4245	0.28033	0.2803(a)
	79 n-Butylbenzene	91	18.035	18.028	(1.017)	4343	0.20067	0.2006(a)
	80 1,2-Dichlorobenzene	146	18.212	18.206	(1.027)	1918	0.13358	0.1335(a)
	82 1,2,4-Trichlorobenzene	180	20.232	20.226	(1.141)	2053	0.39807	0.3980(a)
	83 Hexachlorobutadiene	225	20.321	20.325	(1.146)	1293	0.21948	0.2194(a)
	84 Naphthalene	128	20.627	20.630	(1.163)	10255	1.84839	1.8483
	85 1,2,3-Trichlorobenzene	180	21.001	20.995	(1.185)	2072	0.72023	0.7202

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Curtis & Tompkins, Ltd.

Continuing Calibration Raw Data

DOUST

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA04 Run Name : 25PPB IDF : 1.0
Seqnum : 438117134004.1 File : dcl04 Time : 21-MAR-2008 09:12
Cal : 438107113004 Caldate : 14-MAR-2008 Caltype : SOIL
Standards: S8668 (20000X), S8400 (20000X), S8549 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	1.2319	0.9546	25.00	18.61	ug/L	**-26**	20	0.0500	c- m ***
Chloromethane	1.0159	1.0083	25.00	23.83	ug/L	-5	20	0.1000	m
Vinyl Chloride	0.9683	0.9142	25.00	23.60	ug/L	-6	20	0.0500	m
Bromomethane	0.6677	0.6975	25.00	24.93	ug/L	0	20	0.0500	
Chloroethane	0.5090	0.5586	25.00	27.44	ug/L	10	20	0.0500	
Trichlorofluoromethane	1.0904	1.0395	25.00	22.97	ug/L	-8	20	0.0500	
Acetone	0.3606	0.3883	25.00	26.92	ug/L	8	30	0.0500	
Freon 113	0.7342	0.6626	25.00	22.56	ug/L	-10	20	0.0500	
1,1-Dichloroethene	0.6241	0.6284	25.00	25.18	ug/L	1	20	0.0500	
Methylene Chloride	0.7689	0.9561	25.00	31.09	ug/L	**24**	20	0.0500	c+ ***
Carbon Disulfide	2.2488	2.5098	25.00	27.90	ug/L	12	20	0.0500	
MTBE	1.9000	2.0339	25.00	26.76	ug/L	7	20	0.0500	
trans-1,2-Dichloroethene	0.6348	0.6683	25.00	26.32	ug/L	5	20	0.0500	
Vinyl Acetate	1.6066	1.6135	25.00	25.11	ug/L	0	30	0.0500	
1,1-Dichloroethane	1.2483	1.3311	25.00	26.66	ug/L	7	20	0.1000	
2-Butanone	0.4336	0.4922	25.00	28.38	ug/L	14	30	0.0500	
2,2-Dichloropropane	0.9777	1.0012	25.00	25.60	ug/L	2	20	0.0500	
cis-1,2-Dichloroethene	0.6907	0.7550	25.00	27.33	ug/L	9	20	0.0500	
Chloroform	1.2559	1.3493	25.00	26.86	ug/L	7	20	0.0500	
Bromochloromethane	0.3922	0.4514	25.00	28.77	ug/L	15	20	0.0500	
1,1,1-Trichloroethane	0.9676	0.9266	25.00	23.94	ug/L	-4	20	0.0500	
1,1-Dichloropropene	0.5938	0.5347	25.00	22.51	ug/L	-10	20	0.0500	
Carbon Tetrachloride	0.4877	0.4957	25.00	25.41	ug/L	2	20	0.0500	
1,2-Dichloroethane	0.6696	0.7108	25.00	26.54	ug/L	6	20	0.0500	
Benzene	1.5750	1.6058	25.00	25.49	ug/L	2	20	0.0500	
Trichloroethene	0.4412	0.4299	25.00	24.36	ug/L	-3	20	0.0500	
1,2-Dichloropropane	0.4601	0.4665	25.00	25.35	ug/L	1	20	0.0500	
Bromodichloromethane	0.6530	0.6867	25.00	26.29	ug/L	5	20	0.0500	
Dibromomethane	0.3359	0.3653	25.00	27.19	ug/L	9	20	0.0500	
4-Methyl-2-Pentanone	0.6135	0.5905	25.00	24.06	ug/L	-4	30	0.0500	
cis-1,3-Dichloropropene	0.6791	0.7009	25.00	25.80	ug/L	3	20	0.0500	
Toluene	0.9316	0.9552	25.00	25.63	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.6553	0.6825	25.00	26.04	ug/L	4	20	0.0500	
1,1,2-Trichloroethane	0.2131	0.2184	25.00	25.62	ug/L	2	20	0.0500	
2-Hexanone	0.5192	0.5191	25.00	25.00	ug/L	0	30	0.0500	
1,3-Dichloropropane	0.7753	0.7786	25.00	25.11	ug/L	0	20	0.0500	
Tetrachloroethene	0.5197	0.4486	25.00	21.58	ug/L	-14	20	0.0500	
Dibromochloromethane	0.5675	0.5819	25.00	25.63	ug/L	3	20	0.0500	
1,2-Dibromoethane	0.4143	0.4429	25.00	26.72	ug/L	7	20	0.0500	
Chlorobenzene	1.1252	1.1685	25.00	25.96	ug/L	4	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4277	0.4407	25.00	25.76	ug/L	3	20	0.0500	
Ethylbenzene	1.9779	1.9339	25.00	24.44	ug/L	-2	20	0.0500	
m,p-Xylenes	0.7326	0.7131	50.00	48.67	ug/L	-3	20	0.0500	
o-Xylene	0.7482	0.7598	25.00	25.39	ug/L	2	20	0.0500	
Styrene	1.2797	1.3080	25.00	25.55	ug/L	2	20	0.0500	
Bromoform	0.4052	0.3979	25.00	24.55	ug/L	-2	20	0.1000	
Isopropylbenzene	3.4725	3.1850	25.00	22.93	ug/L	-8	20	0.0500	
1,1,2,2-Tetrachloroethane	1.1540	1.1490	25.00	24.89	ug/L	0	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.9927	0.9794	25.00	24.67	ug/L	-1	20	0.0500	
Propylbenzene	4.2706	3.9351	25.00	23.04	ug/L	-8	20	0.0500	
Bromobenzene	1.0112	1.0154	25.00	25.10	ug/L	0	20	0.0500	
1,3,5-Trimethylbenzene	2.8011	2.6844	25.00	23.96	ug/L	-4	20	0.0500	
2-Chlorotoluene	2.8775	2.8427	25.00	24.70	ug/L	-1	20	0.0500	
4-Chlorotoluene	2.7177	2.6897	25.00	24.74	ug/L	-1	20	0.0500	
tert-Butylbenzene	2.4884	2.2996	25.00	23.10	ug/L	-8	20	0.0500	
1,2,4-Trimethylbenzene	2.8614	2.8543	25.00	24.94	ug/L	0	20	0.0500	
sec-Butylbenzene	3.7700	3.3247	25.00	22.05	ug/L	-12	20	0.0500	
para-Isopropyl Toluene	3.1521	2.9136	25.00	23.11	ug/L	-8	20	0.0500	
1,3-Dichlorobenzene	1.8426	1.8694	25.00	25.36	ug/L	1	20	0.0500	
1,4-Dichlorobenzene	1.8368	1.8798	25.00	25.58	ug/L	2	20	0.0500	
n-Butylbenzene	3.2559	2.8678	25.00	22.02	ug/L	-12	20	0.0500	
1,2-Dichlorobenzene	1.7591	1.8211	25.00	25.88	ug/L	4	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2741	0.2624	25.00	23.93	ug/L	-4	20	0.0500	
1,2,4-Trichlorobenzene	1.2843	1.3161	25.00	25.62	ug/L	2	20	0.0500	
Hexachlorobutadiene	0.7459	0.5371	25.00	18.00	ug/L	**-28**	20	0.0500	c- ***
Naphthalene	2.9513	3.0013	25.00	25.42	ug/L	2	20	0.0500	
1,2,3-Trichlorobenzene	1.1880	1.1903	25.00	25.05	ug/L	0	20	0.0500	
Dibromofluoromethane	0.5691	0.6090	50.00	53.50	ug/L	7	20	0.0500	
1,2-Dichloroethane-d4	0.4420	0.4536	50.00	51.31	ug/L	3	20	0.0500	
Trifluorotoluene	0.6884	0.6187	25.00	22.47	ug/L	-10	20	0.0500	
Toluene-d8	1.0396	1.0371	50.00	49.88	ug/L	0	20	0.0500	
Bromofluorobenzene	0.9399	0.9150	50.00	48.67	ug/L	-3	20	0.0500	

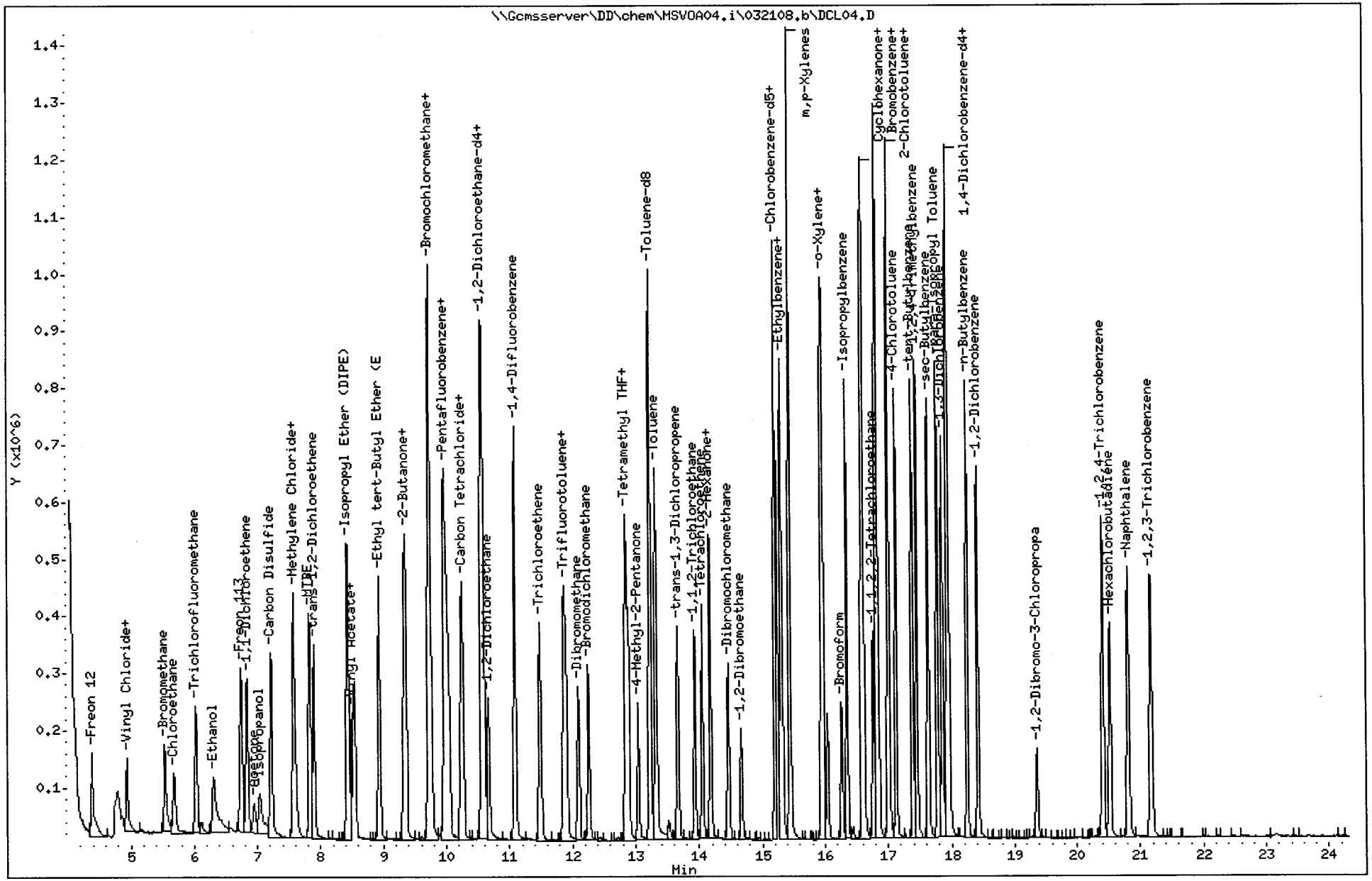
ISTD (ICAL dce12)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	402255	481804	19.78	10.00	9.98	-0.02
1,4-Difluorobenzene	600047	733431	22.23	11.12	11.09	-0.03
Chlorobenzene-d5	504409	658283	30.51	15.22	15.20	-0.02
1,4-Dichlorobenzene-d4	272365	368675	35.36	17.95	17.93	-0.02

Analyst: MJD Date: 03/21/08 Reviewer: EAH Date: 03/24/08

+=high bias -=low bias c=CCV m=manual integration

438117134004.1

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL04.D
Date : 21-MAR-2008 09:12
Client ID: DYNA P&T
Instrument: MSVOA04.i
Sample Info: CCV,S8668,0.005/100,S8400,0.005/100
Purge Volume: 5.0
Operator: VOC
Column phase: RTx Volatiles
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL04.D
Report Date: 21-Mar-2008 14:22

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL04.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-MAR-2008 09:12 MS Autotune Date: 12-MAR-2008 09:04
Operator : VOC Inst ID: MSVOA04.i
Smp Info : CCV,S8668,0.005/100,S8400,0.005/100
Misc Info : 25PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\826GOX4S.m
Meth Date : 21-Mar-2008 14:22 msvoa04 Quant Type: ISTD
Cal Date : 14-MAR-2008 18:54 Cal File: DCE15.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.384	4.408	(0.439)	229976	50.0000	18.6142(M)
2 Chloromethane	50	4.788	4.812	(0.480)	242895	50.0000	23.8263(M)
3 Vinyl Chloride	62	4.936	4.960	(0.495)	220225	50.0000	23.6015(M)
4 Bromomethane	94	5.537	5.561	(0.555)	168032	50.0000	24.9258
5 Chloroethane	64	5.685	5.709	(0.570)	134579	50.0000	27.4361
6 Trichlorofluoromethane	101	6.031	6.054	(0.605)	250416	50.0000	22.9660
7 Ethanol	45	6.307	6.350	(0.632)	335659	5000.00	2730.8411(M)
8 Freon 113	101	6.741	6.764	(0.676)	159618	50.0000	22.5608
9 1,1-Dichloroethene	96	6.839	6.863	(0.686)	151393	50.0000	25.1753
10 Acetone	43	6.948	6.981	(0.697)	93549	50.0000	26.9216
11 Isopropanol	45	7.036	7.070	(0.705)	167812	500.000	222.2272(M)
12 Carbon Disulfide	76	7.214	7.247	(0.723)	604623	50.0000	27.9019
13 Methylene Chloride	84	7.569	7.602	(0.759)	230333	50.0000	31.0871
14 tert-Butyl Alcohol (TBA)	59	7.599	7.632	(0.762)	262670	500.000	251.0374
15 MTBE	73	7.825	7.858	(0.784)	489973	50.0000	26.7626
16 trans-1,2-Dichloroethene	96	7.894	7.927	(0.791)	160995	50.0000	26.3191
17 Isopropyl Ether (DIPE)	45	8.427	8.470	(0.845)	624047	50.0000	25.5360
18 Vinyl Acetate	43	8.506	8.529	(0.853)	388701	50.0000	25.1074
19 1,1-Dichloroethane	63	8.545	8.578	(0.857)	320669	50.0000	26.6594
20 Ethyl tert-Butyl Ether (ETBE)	59	8.940	8.962	(0.896)	531103	50.0000	26.1209
21 2-Butanone	43	9.344	9.376	(0.937)	118578	50.0000	28.3777
22 2,2-Dichloropropane	77	9.334	9.366	(0.936)	241200	50.0000	25.6022

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL04.D
Report Date: 21-Mar-2008 14:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.364	9.396	(0.939)	181870	50.0000	27.3276
	24 Bromochloromethane	128	9.719	9.751	(0.974)	108732	50.0000	28.7700
	25 Tetrahydrofuran	42	9.729	9.761	(0.975)	615906	500.000	261.0021
	26 Chloroform	83	9.758	9.790	(0.978)	325057	50.0000	26.8601
*	27 Pentafluorobenzene	168	9.975	10.007	(1.000)	481804	50.0000	
	28 Dibromofluoromethane	113	10.005	10.037	(1.003)	293403	50.0000	53.5011
	29 1,1,1-Trichloroethane	97	10.034	10.066	(1.006)	223231	50.0000	23.9427
	30 Carbon Tetrachloride	117	10.242	10.273	(0.924)	181779	50.0000	25.4093
	31 1,1-Dichloropropene	75	10.261	10.293	(0.925)	196073	50.0000	22.5124
	32 1,2-Dichloroethane-d4	65	10.557	10.589	(0.952)	332703	50.0000	51.3133
	33 Benzene	78	10.567	10.598	(0.953)	588874	50.0000	25.4891
	34 Methyl tert-Amyl Ether (TAME)	73	10.597	10.618	(0.956)	419970	50.0000	25.8070
	35 1,2-Dichloroethane	62	10.666	10.697	(0.962)	260679	50.0000	26.5418
*	36 1,4-Difluorobenzene	114	11.090	11.121	(1.000)	733431	50.0000	
	37 Trichloroethene	95	11.484	11.515	(1.036)	157653	50.0000	24.3614
	38 Trifluorotoluene	146	11.869	11.900	(1.070)	226875	50.0000	22.4674
	39 1,2-Dichloropropane	63	11.898	11.929	(1.073)	171075	50.0000	25.3466
	40 Dibromomethane	93	12.096	12.127	(1.091)	133975	50.0000	27.1904
	41 Bromodichloromethane	83	12.253	12.284	(1.105)	251839	50.0000	26.2930
	43 Tetramethyl THF	43	12.855	12.876	(1.159)	408715	50.0000	25.3891
	44 cis-1,3-Dichloropropene	75	12.894	12.925	(1.163)	257022	50.0000	25.8001
	45 4-Methyl-2-Pentanone	43	13.042	13.073	(1.176)	216542	50.0000	24.0623
	46 Toluene-d8	98	13.230	13.260	(1.193)	760670	50.0000	49.8801
	47 Toluene	92	13.328	13.349	(1.202)	350284	50.0000	25.6321
	48 trans-1,3-Dichloropropene	75	13.664	13.694	(1.232)	250284	50.0000	26.0388
	49 1,1,2-Trichloroethane	85	13.930	13.960	(1.256)	80097	50.0000	25.6246
	50 Tetrachloroethene	166	14.058	14.078	(0.925)	147668	50.0000	21.5799
	51 2-Hexanone	43	14.176	14.207	(0.933)	170869	50.0000	24.9962
	52 1,3-Dichloropropane	76	14.186	14.207	(0.933)	256284	50.0000	25.1077
	53 Dibromochloromethane	129	14.462	14.483	(0.951)	191520	50.0000	25.6311
	54 1,2-Dibromoethane	107	14.670	14.690	(1.323)	162409	50.0000	26.7235
*	55 Chlorobenzene-d5	117	15.202	15.222	(1.000)	658283	50.0000	
	56 Chlorobenzene	112	15.242	15.261	(1.003)	384600	50.0000	25.9612
	57 Ethylbenzene	91	15.301	15.321	(1.006)	636512	50.0000	24.4435
	58 1,1,1,2-Tetrachloroethane	131	15.330	15.360	(1.008)	145051	50.0000	25.7569
	59 m,p-Xylenes	106	15.439	15.468	(1.016)	469419	100.000	48.6665
	60 o-Xylene	106	15.952	15.971	(1.049)	250077	50.0000	25.3866
	61 Styrene	104	15.971	16.001	(1.051)	430510	50.0000	25.5532
	62 Bromoform	173	16.267	16.297	(1.070)	130954	50.0000	24.5485
	63 Isopropylbenzene	105	16.356	16.375	(0.912)	587119	50.0000	22.9301
	64 Cyclohexanone	55	16.593	16.612	(0.925)	449647	500.000	289.6733
	65 Bromofluorobenzene	95	16.612	16.642	(0.926)	337325	50.0000	48.6738
	66 1,1,2,2-Tetrachloroethane	83	16.770	16.789	(0.935)	211801	50.0000	24.8902
	67 Bromobenzene	156	16.819	16.839	(0.938)	187175	50.0000	25.1041
	68 Propylbenzene	91	16.829	16.849	(0.938)	725385	50.0000	23.0359
	69 1,2,3-Trichloropropane	75	16.859	16.878	(0.940)	180545	50.0000	24.6656
	70 2-Chlorotoluene	91	17.007	17.026	(0.948)	524012	50.0000	24.6974
	71 1,3,5-Trimethylbenzene	105	17.017	17.036	(0.949)	494844	50.0000	23.9584
	72 4-Chlorotoluene	91	17.125	17.144	(0.955)	495813	50.0000	24.7423
	73 tert-Butylbenzene	119	17.391	17.411	(0.970)	423905	50.0000	23.1031
	74 1,2,4-Trimethylbenzene	105	17.451	17.470	(0.973)	526154	50.0000	24.9379
	75 sec-Butylbenzene	105	17.638	17.657	(0.984)	612875	50.0000	22.0472
	76 para-Isopropyl Toluene	119	17.776	17.795	(0.991)	537080	50.0000	23.1080
	77 1,3-Dichlorobenzene	146	17.855	17.884	(0.996)	344594	50.0000	25.3632

Data File: \\Gcmsserver\DD\chem\MSVOA04.i\032108.b\DCL04.D
Report Date: 21-Mar-2008 14:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	17.934	17.953	(1.000)	368675	50.0000	
79 1,4-Dichlorobenzene	146	17.963	17.982	(1.002)	346509	50.0000	25.5844
80 n-Butylbenzene	91	18.249	18.268	(1.018)	528639	50.0000	22.0201
81 1,2-Dichlorobenzene	146	18.417	18.436	(1.027)	335701	50.0000	25.8821
82 1,2-Dibromo-3-Chloropropane	75	19.364	19.382	(1.080)	48375	50.0000	23.9309
83 1,2,4-Trichlorobenzene	180	20.409	20.437	(1.138)	242611	50.0000	25.6192
84 Hexachlorobutadiene	225	20.528	20.555	(1.145)	99000	50.0000	17.9999
85 Naphthalene	128	20.814	20.841	(1.161)	553249	50.0000	25.4232
86 1,2,3-Trichlorobenzene	180	21.178	21.196	(1.181)	219420	50.0000	25.0483

QC Flag Legend

M - Compound response manually integrated.

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 MSVOA Soil
EPA 8260B

Inst : MSVOA05 Run Name : 20PPB IDF : 1.0
Seqnum : 448115696003.1 File : eck03 Time : 20-MAR-2008 09:00
Cal : 448110396001 Caldate : 16-MAR-2008 Caltype : SOIL
Standards: S8668 (25000X), S8400 (25000X), S8549 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	1.1288	1.0958	20.00	16.68	ug/L	-17	20	0.0500	m
Chloromethane	0.7559	0.7617	20.00	20.15	ug/L	1	20	0.1000	m
Vinyl Chloride	0.7775	0.8128	20.00	20.06	ug/L	0	20	0.0500	m
Bromomethane	0.3729	0.4493	20.00	24.18	ug/L	**21**	20	0.0500	c+ m ***
Chloroethane	0.3685	0.3473	20.00	18.13	ug/L	-9	20	0.0500	m
Trichlorofluoromethane	1.0140	0.9921	20.00	16.57	ug/L	-17	20	0.0500	m
Acetone	0.2062	0.2474	20.00	23.99	ug/L	20	30	0.0500	
Freon 113	0.5815	0.4452	20.00	15.31	ug/L	**-23**	20	0.0500	c- ***
1,1-Dichloroethene	0.4419	0.4064	20.00	18.39	ug/L	-8	20	0.0500	
Methylene Chloride	0.6120	0.6091	20.00	19.91	ug/L	0	20	0.0500	
Carbon Disulfide	1.9042	1.7984	20.00	18.89	ug/L	-6	20	0.0500	
MTBE	1.6574	1.5535	20.00	18.75	ug/L	-6	20	0.0500	
trans-1,2-Dichloroethene	0.5459	0.5155	20.00	18.89	ug/L	-6	20	0.0500	
Vinyl Acetate	1.7365	1.4997	20.00	17.27	ug/L	-14	30	0.0500	
1,1-Dichloroethane	1.2187	1.1423	20.00	18.75	ug/L	-6	20	0.1000	
2-Butanone	0.4020	0.3644	20.00	18.13	ug/L	-9	30	0.0500	
2,2-Dichloropropane	0.8725	0.7872	20.00	18.04	ug/L	-10	20	0.0500	
cis-1,2-Dichloroethene	0.6131	0.5982	20.00	19.51	ug/L	-2	20	0.0500	
Chloroform	1.2219	1.1968	20.00	19.59	ug/L	-2	20	0.0500	
Bromochloromethane	0.3059	0.3039	20.00	19.87	ug/L	-1	20	0.0500	
1,1,1-Trichloroethane	0.8165	0.7452	20.00	18.25	ug/L	-9	20	0.0500	
1,1-Dichloropropene	0.5876	0.5425	20.00	18.47	ug/L	-8	20	0.0500	
Carbon Tetrachloride	0.4732	0.4324	20.00	18.28	ug/L	-9	20	0.0500	
1,2-Dichloroethane	0.5685	0.5610	20.00	19.74	ug/L	-1	20	0.0500	
Benzene	1.6283	1.6979	20.00	20.85	ug/L	4	20	0.0500	
Trichloroethene	0.3866	0.3909	20.00	20.22	ug/L	1	20	0.0500	
1,2-Dichloropropane	0.4873	0.4750	20.00	19.49	ug/L	-3	20	0.0500	m
Bromodichloromethane	0.6061	0.6304	20.00	20.80	ug/L	4	20	0.0500	
Dibromomethane	0.2938	0.2930	20.00	19.95	ug/L	0	20	0.0500	
4-Methyl-2-Pentanone	0.5437	0.5193	20.00	19.10	ug/L	-4	30	0.0500	
cis-1,3-Dichloropropene	0.7100	0.7264	20.00	20.46	ug/L	2	20	0.0500	
Toluene	0.8349	0.8453	20.00	20.25	ug/L	1	20	0.0500	
trans-1,3-Dichloropropene	0.6397	0.6425	20.00	20.09	ug/L	0	20	0.0500	
1,1,2-Trichloroethane	0.2136	0.2110	20.00	19.75	ug/L	-1	20	0.0500	
2-Hexanone	0.4449	0.4590	20.00	20.63	ug/L	3	30	0.0500	
1,3-Dichloropropane	0.7536	0.7841	20.00	20.81	ug/L	4	20	0.0500	
Tetrachloroethene	0.4226	0.4246	20.00	20.09	ug/L	0	20	0.0500	
Dibromochloromethane	0.4836	0.5165	20.00	21.36	ug/L	7	20	0.0500	
1,2-Dibromoethane	0.3462	0.3459	20.00	19.98	ug/L	0	20	0.0500	
Chlorobenzene	0.9727	1.0662	20.00	21.92	ug/L	10	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4019	0.4239	20.00	21.10	ug/L	5	20	0.0500	
Ethylbenzene	1.8172	1.9647	20.00	21.62	ug/L	8	20	0.0500	
m,p-Xylenes	0.5865	0.6252	40.00	42.64	ug/L	7	20	0.0500	
o-Xylene	0.5976	0.6295	20.00	21.07	ug/L	5	20	0.0500	
Styrene	1.0446	1.1305	20.00	21.65	ug/L	8	20	0.0500	
Bromoform	0.3579	0.3731	20.00	20.85	ug/L	4	20	0.1000	
Isopropylbenzene	2.6747	2.6834	20.00	20.07	ug/L	0	20	0.0500	
1,1,2,2-Tetrachloroethane	1.0702	1.1386	20.00	21.28	ug/L	6	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.8168	0.8329	20.00	20.39	ug/L	2	20	0.0500	m
Propylbenzene	3.5396	3.6165	20.00	20.43	ug/L	2	20	0.0500	
Bromobenzene	0.8558	0.9377	20.00	21.91	ug/L	10	20	0.0500	
1,3,5-Trimethylbenzene	2.0763	2.2124	20.00	21.31	ug/L	7	20	0.0500	
2-Chlorotoluene	2.3264	2.6417	20.00	22.71	ug/L	14	20	0.0500	
4-Chlorotoluene	2.0913	2.3696	20.00	22.66	ug/L	13	20	0.0500	
tert-Butylbenzene	1.7762	1.7604	20.00	19.82	ug/L	-1	20	0.0500	
1,2,4-Trimethylbenzene	1.9543	2.0562	20.00	21.04	ug/L	5	20	0.0500	
sec-Butylbenzene	2.8179	2.7862	20.00	19.78	ug/L	-1	20	0.0500	
para-Isopropyl Toluene	2.1032	2.0953	20.00	19.92	ug/L	0	20	0.0500	
1,3-Dichlorobenzene	1.4258	1.6597	20.00	23.28	ug/L	16	20	0.0500	
1,4-Dichlorobenzene	1.4734	1.6411	20.00	22.28	ug/L	11	20	0.0500	
n-Butylbenzene	2.1059	1.9979	20.00	18.97	ug/L	-5	20	0.0500	
1,2-Dichlorobenzene	1.3971	1.5796	20.00	22.61	ug/L	13	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1765	0.1865	20.00	21.13	ug/L	6	20	0.0500	
1,2,4-Trichlorobenzene	0.6464	0.7359	20.00	23.37	ug/L	17	20	0.0500	
Hexachlorobutadiene	0.5732	0.5481	20.00	19.12	ug/L	-4	20	0.0500	
Naphthalene	1.1033	0.8825	20.00	16.28	ug/L	-19	20	0.0500	
1,2,3-Trichlorobenzene	0.6576	0.6743	20.00	20.66	ug/L	3	20	0.0500	
Dibromofluoromethane	0.6048	0.5778	50.00	47.76	ug/L	-4	20	0.0500	
1,2-Dichloroethane-d4	0.4605	0.4530	50.00	49.18	ug/L	-2	20	0.0500	
Trifluorotoluene	0.5405	0.5398	20.00	19.98	ug/L	0	20	0.0500	
Toluene-d8	1.0968	1.1109	50.00	50.64	ug/L	1	20	0.0500	
Bromofluorobenzene	0.9595	0.9705	50.00	50.57	ug/L	1	20	0.0500	

ISTD (ICAL ecg11)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	751961	814179	8.27	9.80	9.79	-0.01
1,4-Difluorobenzene	1093331	1126736	3.06	10.90	10.91	0.01
Chlorobenzene-d5	980726	961098	-2.00	15.00	15.01	0.01
1,4-Dichlorobenzene-d4	574120	536033	-6.63	17.72	17.73	0.01

Analyst: MJD Date: 03/21/08 Reviewer: EAH Date: 03/24/08

+=high bias -=low bias c=CCV m=manual integration

448115696003.1

20505

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK03.D

Date : 20-MAR-2008 09:00

Client ID: DYNA P&T

Instrument: MSVOA05.i

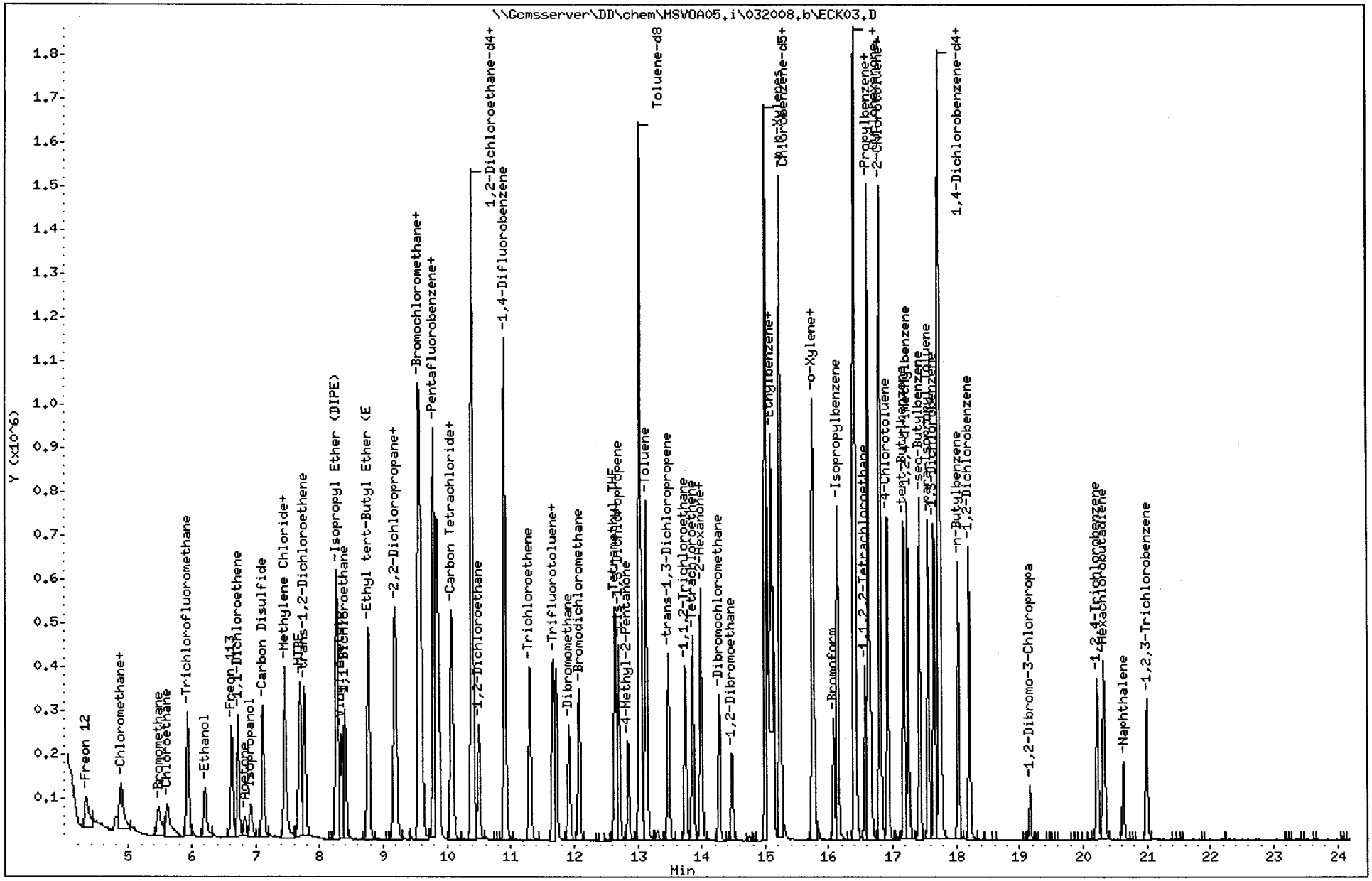
Sample Info: CCV,S8668,0.004/100,S8400,0.004/100

Purge Volume: 5.0

Operator: VOC

Column phase: RTX 624

Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK03.D
Report Date: 20-Mar-2008 09:42

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK03.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 20-MAR-2008 09:00 MS Autotune Date: 08-JAN-2007 16:49
Operator : VOC Inst ID: MSVOA05.i
Smp Info : CCV,S8668,0.004/100,S8400,0.004/100
Misc Info : 20PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\826GOX5S.m
Meth Date : 20-Mar-2008 09:42 MSVOA06 Quant Type: ISTD
Cal Date : 16-MAR-2008 18:55 Cal File: ECG07.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.331	4.339	(0.442)	356883	75.0000	16.6776(M)
2 Chloromethane	50	4.844	4.802	(0.495)	248051	75.0000	20.1532(M)
3 Vinyl Chloride	62	4.873	4.891	(0.498)	264714	75.0000	20.0596(M)
4 Bromomethane	94	5.484	5.483	(0.560)	146309	75.0000	24.1767(M)
5 Chloroethane	64	5.613	5.620	(0.573)	113114	75.0000	18.1306(M)
6 Trichlorofluoromethane	101	5.938	5.955	(0.606)	323102	75.0000	16.5695(M)
7 Ethanol	45	6.204	6.231	(0.634)	239016	7500.00	1872.4895(AM)
8 Freon 113	101	6.628	6.646	(0.677)	144980	75.0000	15.3120
9 1,1-Dichloroethene	96	6.726	6.744	(0.687)	132353	75.0000	18.3937
10 Acetone	43	6.825	6.852	(0.697)	80572	75.0000	23.9937
11 Isopropanol	45	6.923	6.941	(0.707)	139490	750.000	180.9203(A)
12 Carbon Disulfide	76	7.111	7.128	(0.726)	585690	75.0000	18.8886
13 Methylene Chloride	84	7.455	7.463	(0.761)	198376	75.0000	19.9065
14 tert-Butyl Alcohol (TBA)	59	7.465	7.483	(0.762)	193041	750.000	171.3058(A)
15 MTBE	73	7.682	7.700	(0.785)	505920	75.0000	18.7461
16 trans-1,2-Dichloroethene	96	7.761	7.779	(0.793)	167875	75.0000	18.8862
17 Isopropyl Ether (DIPE)	45	8.273	8.281	(0.845)	819585	75.0000	18.8013(A)
18 Vinyl Acetate	43	8.342	8.359	(0.852)	488417	75.0000	17.2730
19 1,1-Dichloroethane	63	8.392	8.409	(0.857)	372018	75.0000	18.7464
20 Ethyl tert-Butyl Ether (ETBE)	59	8.766	8.784	(0.895)	611393	75.0000	18.4892(A)
21 2,2-Dichloropropane	77	9.180	9.188	(0.938)	256353	75.0000	18.0432
22 2-Butanone	43	9.180	9.198	(0.938)	118665	75.0000	18.1295

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK03.D
Report Date: 20-Mar-2008 09:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.210	9.218	(0.941)	194811	75.0000	19.5128
	24 Bromochloromethane	128	9.564	9.573	(0.977)	98984	75.0000	19.8716
	25 Tetrahydrofuran	42	9.564	9.572	(0.977)	641224	750.000	175.2220(A)
	26 Chloroform	83	9.604	9.612	(0.981)	389761	75.0000	19.5894
*	27 Pentafluorobenzene	168	9.791	9.799	(1.000)	814179	50.0000	
	28 Dibromofluoromethane	113	9.840	9.848	(1.005)	470400	50.0000	47.7618
	29 1,1,1-Trichloroethane	97	9.870	9.878	(1.008)	242689	75.0000	18.2539
	30 Carbon Tetrachloride	117	10.067	10.075	(0.923)	194885	75.0000	18.2750
	31 1,1-Dichloropropene	75	10.087	10.094	(0.925)	244513	75.0000	18.4669
	32 1,2-Dichloroethane-d4	65	10.382	10.400	(0.952)	510378	50.0000	49.1799
	33 Benzene	78	10.392	10.400	(0.953)	765236	75.0000	20.8548
	34 Methyl tert-Amyl Ether (TAME)	73	10.402	10.420	(0.954)	511570	75.0000	20.5203(A)
	35 1,2-Dichloroethane	62	10.501	10.508	(0.963)	252835	75.0000	19.7370
*	36 1,4-Difluorobenzene	114	10.905	10.912	(1.000)	1126736	50.0000	
	37 Trichloroethene	95	11.299	11.307	(1.036)	176154	75.0000	20.2190
	38 Trifluorotoluene	146	11.673	11.681	(1.070)	243295	75.0000	19.9753(A)
	39 1,2-Dichloropropane	63	11.723	11.730	(1.075)	214063	75.0000	19.4931(M)
	40 Dibromomethane	93	11.920	11.928	(1.093)	132044	75.0000	19.9471
	41 Bromodichloromethane	83	12.078	12.086	(1.108)	284104	75.0000	20.8017
	42 Tetramethyl THF	43	12.649	12.657	(1.160)	452712	75.0000	19.1767(A)
	43 cis-1,3-Dichloropropene	75	12.708	12.716	(1.165)	327395	75.0000	20.4617
	44 4-Methyl-2-Pentanone	43	12.846	12.854	(1.178)	234055	75.0000	19.1028
	45 Toluene-d8	98	13.033	13.041	(1.195)	1251688	50.0000	50.6440
	46 Toluene	92	13.132	13.140	(1.204)	380962	75.0000	20.2486
	47 trans-1,3-Dichloropropene	75	13.477	13.485	(1.236)	289550	75.0000	20.0850
	48 1,1,2-Trichloroethane	85	13.743	13.751	(1.260)	95081	75.0000	19.7490
	49 Tetrachloroethene	166	13.861	13.869	(0.924)	163226	75.0000	20.0945
	50 2-Hexanone	43	13.980	13.977	(0.932)	176443	75.0000	20.6309
	51 1,3-Dichloropropane	76	13.999	13.998	(0.933)	301447	75.0000	20.8111
	52 Dibromochloromethane	129	14.275	14.283	(0.951)	198575	75.0000	21.3617
	53 1,2-Dibromoethane	107	14.482	14.481	(1.328)	155894	75.0000	19.9823
*	54 Chlorobenzene-d5	117	15.005	15.012	(1.000)	961098	50.0000	
	55 Chlorobenzene	112	15.044	15.052	(1.003)	409873	75.0000	21.9216
	56 Ethylbenzene	91	15.093	15.101	(1.006)	755291	75.0000	21.6234
	57 1,1,1,2-Tetrachloroethane	131	15.133	15.131	(1.009)	162982	75.0000	21.0982
	58 m,p-Xylenes	106	15.231	15.239	(1.015)	480672	150.000	42.6362
	59 o-Xylene	106	15.744	15.742	(1.049)	242002	75.0000	21.0664
	60 Styrene	104	15.773	15.772	(1.051)	434614	75.0000	21.6451
	61 Bromoform	173	16.079	16.077	(1.072)	143450	75.0000	20.8497
	62 Isopropylbenzene	105	16.148	16.146	(0.911)	575366	75.0000	20.0650
	63 Cyclohexanone_	55	16.394	16.402	(0.925)	518625	750.000	361.6289(A)
	64 Bromofluorobenzene	95	16.414	16.421	(0.926)	520242	50.0000	50.5727
	65 1,1,2,2-Tetrachloroethane	83	16.571	16.569	(0.935)	244121	75.0000	21.2777
	66 Propylbenzene	91	16.621	16.619	(0.938)	775424	75.0000	20.4344
	67 Bromobenzene	156	16.621	16.619	(0.938)	201054	75.0000	21.9132
	68 1,2,3-Trichloropropane	75	16.660	16.658	(0.940)	178585	75.0000	20.3932(M)
	69 2-Chlorotoluene	91	16.798	16.806	(0.948)	566416	75.0000	22.7107
	70 1,3,5-Trimethylbenzene	105	16.808	16.806	(0.948)	474370	75.0000	21.3109
	71 4-Chlorotoluene	91	16.926	16.924	(0.955)	508072	75.0000	22.6614
	72 tert-Butylbenzene	119	17.183	17.180	(0.969)	377451	75.0000	19.8224
	73 1,2,4-Trimethylbenzene	105	17.242	17.239	(0.973)	440882	75.0000	21.0429
	74 sec-Butylbenzene	105	17.419	17.417	(0.983)	597402	75.0000	19.7754
	75 para-Isopropyl Toluene	119	17.557	17.565	(0.991)	449254	75.0000	19.9247
	76 1,3-Dichlorobenzene	146	17.646	17.653	(0.996)	355868	75.0000	23.2818

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032008.b\ECK03.D
Report Date: 20-Mar-2008 09:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	77 1,4-Dichlorobenzene-d4	152	17.725	17.732	(1.000)	536033	50.0000	
	78 1,4-Dichlorobenzene	146	17.754	17.752	(1.002)	351878	75.0000	22.2759
	79 n-Butylbenzene	91	18.030	18.028	(1.017)	428379	75.0000	18.9746
	80 1,2-Dichlorobenzene	146	18.207	18.206	(1.027)	338687	75.0000	22.6131
	81 1,2-Dibromo-3-Chloropropane	75	19.163	19.162	(1.081)	39984	75.0000	21.1314
	82 1,2,4-Trichlorobenzene	180	20.218	20.226	(1.141)	157783	75.0000	23.3735
	83 Hexachlorobutadiene	225	20.326	20.325	(1.147)	117518	75.0000	19.1231
	84 Naphthalene	128	20.632	20.630	(1.164)	189230	75.0000	16.2799
	85 1,2,3-Trichlorobenzene	180	20.996	20.995	(1.185)	144589	75.0000	20.6646

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 202043
ANALYTICAL REPORT
Semivolatile Organics by GC/MS SIM

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065-EX1 Presidio
Petaluma, CA 94954	Level : IV

Sample ID	Lab ID
1065EX307[6.0]	202043-001
1065EX308[6.0]	202043-002
1065EX309[6.5]	202043-003
1065EX310[7.0]	202043-004
1065EX311[8.5]	202043-005
DUP031908	202043-006
1065EX312[6.0]	202043-007
1065EX313[4.5]	202043-008
1065EX314[5.5]	202043-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/03/2008
Project Manager

Signature: _____ Date: 04/03/2008
Operations Manager

NELAP # 01107CA

00001

Curtis & Tompkins, Ltd.

CASE NARRATIVE
SEMIVOLATILE ORGANICS BY GC/MS SIM (EPA 8270C-SIM)

Laboratory number:	202043
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065-EX1 Presidio
Request Date:	03/19/08
Samples Received:	03/19/08

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

High surrogate recovery was observed for nitrobenzene-d5 in 1065EX313[4.5] (lab # 202043-008).

1065EX311[8.5] (lab # 202043-005) was diluted due to the dark and viscous nature of the sample extract.

No other analytical problems were encountered.

64.0

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

202043 3835

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Ex 1
JOB NO.: 408807 5115 02.4
SAMPLERS (SIGNATURE): [signature]
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 3/19/08

TIME	GRAB	COMP	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES including VOCs (8260B) BTEX & naphthalene; TPH (8015M); TPH as gasoline - w/ silica gel; PAHs (8270-SIM); Title 22 Metals	FOR LAB USE ONLY
1005	X		SO	1065EX307[6.0]	SW 51N76E		14	X X X X X	
1025	X		SO	1065EX308[6.0]	SW 50N32E		7	X X X X X	
1040	X		SO	1065EX309[6.5]	SW 30N31E		7	X X X X X	
1105	X		SO	1065EX310[7.0]	SW 12N31E		7	X X X X X	
1125	X		SO	1065EX311[8.5]	B 21N44E		7	X X X X X	
1125	X		SO	DUP031908	B		7	X X X X X	
1150	X		SO	1065EX312[6.0]	B 26N66E		7	X X X X X	
1200	X		SO	1065EX313[4.5]	SW 3N80E		7	X X X X X	
1215	X		SO	1065EX314[5.5]	SW 29N71E		7	X X X X X	

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	RECEIVED BY:	DATE / TIME
[signature] (SIGNATURE)	3/19/08 1230	[signature] (SIGNATURE)	3/19/08 1230	(SIGNATURE)	(SIGNATURE)	

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
48-hr TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

Anna Pajarillo

From: "Carlyon, Kristen" <KACARLYON@mactec.com>
To: "Anna M. Pajarillo" <anna@ctberk.com>
Cc: "Hart, Mary" <MCHART@mactec.com>; "Heassler, Mary Jo" <MHeassler@mactec.com>
Sent: Friday, March 21, 2008 1:06 PM
Subject: RE: 4084075115 - C&T Login Summary (202043)

Anna,

Please change this job to a level IV.

Kristen

From: Anna M. Pajarillo [mailto:anna@ctberk.com]
Sent: Friday, March 21, 2008 11:56 AM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Evans, Kathleen; Hart, Mary; Albrecht, Frederic
Subject: 4084075115 - C&T Login Summary (202043)

Status: Results will be emailed late today. TVH gas department is running on hold times, but are trying to fit these in today. I may not have ending CCVs, so results will be draft. -Anna

C&T Login Summary for 202043

Project: 4084075115 **Site:** Bldg 1065-EX1 Presidio **Lab Login #:** 202043 **Report Due:** 03/21/08 **PO#:** 200704465 **C&T Proj Mgr:** Anna M. Pajarillo	**Report To:** Mactec, Inc. 5341 Old Redwood Hwy Suite 300 Petaluma, CA 94954 ATTN: Mary Jo Heassler (707) 793-3800	**Bill To:** Mactec, Inc. 1105 Sanctu Suite 300 Alpharetta, (ATTN: Acc (415) 278-2

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	
1065EX307[6.0]	001	03/19	03/19			3835	ICP Okay for Bldg 1065; P
				Soil	8270-SIM		MS/MSD
				Soil	E8260		MS/MSD
				Soil	ETVH		MS/MSD
				Soil	MOISTURE		MS/MSD
				Soil	T26 MET		MS/MSD
				Soil	TEHM		MS/MSD, S.GEL
1065EX308[6.0]	002	03/19	03/19			3835	ICP Okay for Bldg 1065; P
				Soil	8270-SIM		

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 202043 Date Received 3/19/08 Number of coolers 1
Client MACTEC Project BUILDING 1065-EX1

Date Opened 3/19/08 By (print) M. VILLARREAL (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ (NO)
How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? ..... YES NO (N/A)

3. Were custody papers dry and intact when received? ..... (YES) NO

4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO

5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO

6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None

☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A

Type of ice used: ☑ WET ☐ BLUE ☐ NONE Temp(°C) NO TEMP BLANK

☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... (YES) NO
If YES, what time were they transferred to freezer? 16:30

9. Did all bottles arrive unbroken/unopened? ..... (YES) NO

10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO

11. Are sample labels present, in good condition and complete? ..... (YES) NO

12. Do the sample labels agree with custody papers? ..... (YES) NO

13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO

14. Are the samples appropriately preserved? ..... YES NO (N/A)

15. Are bubbles absent in VOA samples? ..... YES NO (N/A)

16. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

_____

_____

Results & QC Summary

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX307[6.0]	Batch#:	136173
Lab ID:	202043-001	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	1.000		

Moisture: 22%

Analyte	Result	RL	MDL
Naphthalene	ND	6.5	1.2
2-Methylnaphthalene	ND	6.5	1.1
Acenaphthylene	ND	6.5	0.82
Acenaphthene	ND	6.5	1.1
Fluorene	ND	6.5	1.1
Phenanthrene	1.9 J	6.5	1.1
Anthracene	ND	6.5	0.97
Fluoranthene	3.6 J	6.5	1.1
Pyrene	5.3 J	6.5	0.93
Benzo(a)anthracene	2.3 J	6.5	0.98
Chrysene	2.5 J	6.5	1.0
Benzo(b)fluoranthene	2.5 J	6.5	1.5
Benzo(k)fluoranthene	ND	6.5	1.3
Benzo(a)pyrene	2.1 J	6.5	0.79
Indeno(1,2,3-cd)pyrene	1.5 J	6.5	1.1
Dibenz(a,h)anthracene	ND	6.5	1.1
Benzo(g,h,i)perylene	1.9 J	6.5	1.3

Surrogate	%REC	Limits
Nitrobenzene-d5	93	23-120
2-Fluorobiphenyl	92	30-115
Terphenyl-d14	98	18-137

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.1

00008

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX308[6.0]	Batch#:	136173
Lab ID:	202043-002	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	1.000		

Moisture: 15%

Analyte	Result	RL	MDL
Naphthalene	ND	5.8	1.1
2-Methylnaphthalene	ND	5.8	0.96
Acenaphthylene	ND	5.8	0.74
Acenaphthene	ND	5.8	0.98
Fluorene	ND	5.8	1.0
Phenanthrene	ND	5.8	0.99
Anthracene	ND	5.8	0.87
Fluoranthene	ND	5.8	0.94
Pyrene	ND	5.8	0.83
Benzo(a)anthracene	ND	5.8	0.88
Chrysene	ND	5.8	0.91
Benzo(b)fluoranthene	ND	5.8	1.4
Benzo(k)fluoranthene	ND	5.8	1.2
Benzo(a)pyrene	ND	5.8	0.71
Indeno(1,2,3-cd)pyrene	ND	5.8	0.98
Dibenz(a,h)anthracene	ND	5.8	1.0
Benzo(g,h,i)perylene	ND	5.8	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	103	23-120
2-Fluorobiphenyl	91	30-115
Terphenyl-d14	91	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX309[6.5]	Batch#:	136173
Lab ID:	202043-003	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL	MDL
Naphthalene	ND	5.9	1.1
2-Methylnaphthalene	ND	5.9	0.97
Acenaphthylene	ND	5.9	0.75
Acenaphthene	ND	5.9	1.0
Fluorene	ND	5.9	1.0
Phenanthrene	1.2 J	5.9	1.0
Anthracene	ND	5.9	0.89
Fluoranthene	ND	5.9	0.96
Pyrene	1.1 J	5.9	0.85
Benzo(a)anthracene	ND	5.9	0.89
Chrysene	ND	5.9	0.92
Benzo(b)fluoranthene	ND	5.9	1.4
Benzo(k)fluoranthene	ND	5.9	1.2
Benzo(a)pyrene	ND	5.9	0.72
Indeno(1,2,3-cd)pyrene	ND	5.9	1.0
Dibenz(a,h)anthracene	ND	5.9	1.0
Benzo(g,h,i)perylene	ND	5.9	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	90	23-120
2-Fluorobiphenyl	87	30-115
Terphenyl-d14	87	18-137

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX310[7.0]	Batch#:	136173
Lab ID:	202043-004	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL	MDL
Naphthalene	ND	5.9	0.93
2-Methylnaphthalene	ND	5.9	0.79
Acenaphthylene	ND	5.9	0.76
Acenaphthene	ND	5.9	0.83
Fluorene	ND	5.9	0.89
Phenanthrene	ND	5.9	0.67
Anthracene	ND	5.9	0.84
Fluoranthene	ND	5.9	0.82
Pyrene	ND	5.9	0.75
Benzo(a)anthracene	ND	5.9	0.97
Chrysene	ND	5.9	0.90
Benzo(b)fluoranthene	ND	5.9	0.66
Benzo(k)fluoranthene	ND	5.9	0.86
Benzo(a)pyrene	ND	5.9	0.79
Indeno(1,2,3-cd)pyrene	ND	5.9	0.67
Dibenz(a,h)anthracene	ND	5.9	0.70
Benzo(g,h,i)perylene	ND	5.9	0.67

Surrogate	%REC	Limits
Nitrobenzene-d5	85	23-120
2-Fluorobiphenyl	86	30-115
Terphenyl-d14	104	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX311[8.5]	Batch#:	136173
Lab ID:	202043-005	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	2.000		

Moisture: 21%

Analyte	Result	RL	MDL
Naphthalene	ND	12	2.0
2-Methylnaphthalene	3.9 J	12	1.7
Acenaphthylene	ND	12	1.6
Acenaphthene	ND	12	1.7
Fluorene	ND	12	1.9
Phenanthrene	2.7 J	12	1.4
Anthracene	ND	12	1.8
Fluoranthene	3.1 J	12	1.7
Pyrene	4.2 J	12	1.6
Benzo(a)anthracene	3.2 J	12	2.0
Chrysene	8.3 J	12	1.9
Benzo(b)fluoranthene	9.7 J	12	1.4
Benzo(k)fluoranthene	2.9 J	12	1.8
Benzo(a)pyrene	5.0 J	12	1.7
Indeno(1,2,3-cd)pyrene	5.9 J	12	1.4
Dibenz(a,h)anthracene	5.7 J	12	1.5
Benzo(g,h,i)perylene	12 J	12	1.4

Surrogate	%REC	Limits
Nitrobenzene-d5	120	23-120
2-Fluorobiphenyl	89	30-115
Terphenyl-d14	89	18-137

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	DUP031908	Batch#:	136173
Lab ID:	202043-006	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	1.000		

Moisture: 21%

Analyte	Result	RL	MDL
Naphthalene	ND	6.3	0.99
2-Methylnaphthalene	ND	6.3	0.84
Acenaphthylene	ND	6.3	0.81
Acenaphthene	ND	6.3	0.88
Fluorene	ND	6.3	0.94
Phenanthrene	ND	6.3	0.72
Anthracene	ND	6.3	0.90
Fluoranthene	ND	6.3	0.87
Pyrene	ND	6.3	0.79
Benzo(a)anthracene	ND	6.3	1.0
Chrysene	ND	6.3	0.95
Benzo(b)fluoranthene	ND	6.3	0.70
Benzo(k)fluoranthene	ND	6.3	0.91
Benzo(a)pyrene	ND	6.3	0.84
Indeno(1,2,3-cd)pyrene	ND	6.3	0.71
Dibenz(a,h)anthracene	ND	6.3	0.74
Benzo(g,h,i)perylene	ND	6.3	0.71

Surrogate	%REC	Limits
Nitrobenzene-d5	95	23-120
2-Fluorobiphenyl	86	30-115
Terphenyl-d14	100	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.1

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX312[6.0]	Batch#:	136173
Lab ID:	202043-007	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL	MDL
Naphthalene	ND	5.9	0.93
2-Methylnaphthalene	ND	5.9	0.79
Acenaphthylene	ND	5.9	0.76
Acenaphthene	ND	5.9	0.83
Fluorene	ND	5.9	0.89
Phenanthrene	ND	5.9	0.67
Anthracene	ND	5.9	0.84
Fluoranthene	ND	5.9	0.82
Pyrene	ND	5.9	0.75
Benzo(a)anthracene	ND	5.9	0.97
Chrysene	ND	5.9	0.90
Benzo(b)fluoranthene	ND	5.9	0.66
Benzo(k)fluoranthene	ND	5.9	0.86
Benzo(a)pyrene	ND	5.9	0.79
Indeno(1,2,3-cd)pyrene	ND	5.9	0.67
Dibenz(a,h)anthracene	ND	5.9	0.70
Benzo(g,h,i)perylene	ND	5.9	0.67

Surrogate	%REC	Limits
Nitrobenzene-d5	95	23-120
2-Fluorobiphenyl	78	30-115
Terphenyl-d14	89	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX313[4.5]	Batch#:	136173
Lab ID:	202043-008	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	1.000		

Moisture: 15%

Analyte	Result	RL	MDL
Naphthalene	120	5.8	0.92
2-Methylnaphthalene	190	5.8	0.78
Acenaphthylene	2.9 J	5.8	0.75
Acenaphthene	5.4 J	5.8	0.82
Fluorene	12	5.8	0.88
Phenanthrene	21	5.8	0.67
Anthracene	2.8 J	5.8	0.83
Fluoranthene	12	5.8	0.81
Pyrene	14	5.8	0.74
Benzo(a)anthracene	7.2	5.8	0.95
Chrysene	9.2	5.8	0.89
Benzo(b)fluoranthene	16	5.8	0.65
Benzo(k)fluoranthene	3.5 J	5.8	0.85
Benzo(a)pyrene	9.7	5.8	0.78
Indeno(1,2,3-cd)pyrene	10	5.8	0.66
Dibenz(a,h)anthracene	3.7 J	5.8	0.69
Benzo(g,h,i)perylene	12	5.8	0.66

Surrogate	%REC	Limits
Nitrobenzene-d5	226 *	23-120
2-Fluorobiphenyl	90	30-115
Terphenyl-d14	91	18-137

*= Value outside of QC limits; see narrative
J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX314[5.5]	Batch#:	136173
Lab ID:	202043-009	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	1.000		

Moisture: 18%

Analyte	Result	RL	MDL
Naphthalene	14	6.0	0.95
2-Methylnaphthalene	16	6.0	0.80
Acenaphthylene	4.2 J	6.0	0.78
Acenaphthene	2.9 J	6.0	0.85
Fluorene	3.1 J	6.0	0.91
Phenanthrene	26	6.0	0.69
Anthracene	4.7 J	6.0	0.86
Fluoranthene	29	6.0	0.84
Pyrene	28	6.0	0.76
Benzo(a)anthracene	17	6.0	0.99
Chrysene	24	6.0	0.92
Benzo(b)fluoranthene	30	6.0	0.68
Benzo(k)fluoranthene	6.5	6.0	0.88
Benzo(a)pyrene	15	6.0	0.80
Indeno(1,2,3-cd)pyrene	18	6.0	0.68
Dibenz(a,h)anthracene	6.1	6.0	0.71
Benzo(g,h,i)perylene	20	6.0	0.68

Surrogate	%REC	Limits
Nitrobenzene-d5	107	23-120
2-Fluorobiphenyl	91	30-115
Terphenyl-d14	93	18-137

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

10.1

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC433671	Batch#:	136173
Matrix:	Soil	Prepared:	03/19/08
Units:	ug/Kg	Analyzed:	03/20/08
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.94
2-Methylnaphthalene	ND	5.0	0.82
Acenaphthylene	ND	5.0	0.63
Acenaphthene	ND	5.0	0.84
Fluorene	ND	5.0	0.85
Phenanthrene	ND	5.0	0.84
Anthracene	ND	5.0	0.74
Fluoranthene	ND	5.0	0.81
Pyrene	ND	5.0	0.71
Benzo(a)anthracene	ND	5.0	0.75
Chrysene	ND	5.0	0.77
Benzo(b)fluoranthene	ND	5.0	1.2
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	0.60
Indeno(1,2,3-cd)pyrene	ND	5.0	0.84
Dibenz(a,h)anthracene	ND	5.0	0.87
Benzo(g,h,i)perylene	ND	5.0	1.0

Surrogate	%REC	Limits
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	81	30-115
Terphenyl-d14	79	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC433672	Batch#:	136173
Matrix:	Soil	Prepared:	03/19/08
Units:	ug/Kg	Analyzed:	03/20/08
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.29	30.04	90	31-137
Pyrene	33.29	28.94	87	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	86	23-120
2-Fluorobiphenyl	90	30-115
Terphenyl-d14	84	18-137

12.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX307[6.0]	Batch#:	136173
MSS Lab ID:	202043-001	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	ug/Kg	Prepared:	03/19/08
Basis:	dry	Analyzed:	03/20/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC433673

Moisture: 22%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.094	43.02	41.41	96	31-137
Pyrene	5.302	43.02	47.19	97	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	96	23-120
2-Fluorobiphenyl	90	30-115
Terphenyl-d14	90	18-137

Type: MSD
Lab ID: QC433674

Moisture: 22%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	43.22	37.14	86	31-137	11	19
Pyrene	43.22	45.64	93	35-142	4	36

Surrogate	%REC	Limits
Nitrobenzene-d5	86	23-120
2-Fluorobiphenyl	82	30-115
Terphenyl-d14	83	18-137

RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528107208005.1 File : vce05 Time : 14-MAR-2008 12:55

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	200008	53.84	
68	< 2% of mass 69	0	0.00	
69		195968		
70	< 2% of mass 69	247	0.13	
127	40% - 60% of mass 198	190549	51.29	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	25749	6.93	
275	10% - 30% of mass 198	102864	27.69	
365	> 1% of mass 198	8269	2.23	
441	Present, < mass 443	49816	89.45	
442	> 40% and < 100% of mass 198	275264	74.09	
443	17% - 23% of mass 442	55693	20.23	

Analyst: JGM Date: 03/17/08 Reviewer: LLH Date: 03/21/08

528107208005.1

CURTIS & TOMPKINS DFTPP TUNE FOR 202043 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528115647002 File : vck02 Time : 20-MAR-2008 08:01

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	104381	59.06	
68	< 2% of mass 69	0	0.00	
69		103578		
70	< 2% of mass 69	602	0.58	
127	40% - 60% of mass 198	97594	55.22	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	12582	7.12	
275	10% - 30% of mass 198	50210	28.41	
365	> 1% of mass 198	4973	2.81	
441	Present, < mass 443	32240	96.22	
442	> 40% and < 100% of mass 198	175424	99.25	
443	17% - 23% of mass 442	33506	19.10	

Analyst: JAJ Date: 03/20/08 Reviewer: LLH Date: 03/21/08

CURTIS & TOMPKINS DFTPP TUNE FOR EPA 8270C

Inst : MSBNA08 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 578083102002.1 File : sbq02 Time : 26-FEB-2008 17:35

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	61925	46.51	
68	< 2% of mass 69	904	1.97	
69		46002		
70	< 2% of mass 69	91	0.20	
127	40% - 60% of mass 198	69899	52.50	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	9525	7.15	
275	10% - 30% of mass 198	32907	24.72	
365	> 1% of mass 198	5360	4.03	
441	Present, < mass 443	17914	79.65	
442	> 40% and < 100% of mass 198	119323	89.63	
443	17% - 23% of mass 442	22492	18.85	

Analyst: JGM Date: 03/17/08 Reviewer: AD Date: 03/17/08

578083102002.1

CURTIS & TOMPKINS DFTPP TUNE FOR 202043 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP 50NG IDF : 1.0
Seqnum : 578115801001 File : sck01 Time : 20-MAR-2008 10:01

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	62466	39.49	
68	< 2% of mass 69	418	0.87	
69		48034		
70	< 2% of mass 69	389	0.81	
127	40% - 60% of mass 198	78917	49.89	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	10807	6.83	
275	10% - 30% of mass 198	38511	24.35	
365	> 1% of mass 198	7256	4.59	
441	Present, < mass 443	18292	76.70	
442	> 40% and < 100% of mass 198	122696	77.57	
443	17% - 23% of mass 442	23850	19.44	

Analyst: JAJ Date: 03/20/08 Reviewer: LLH Date: 03/20/08

578115801001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528107208001
Units : ug/mL

Name : 3PAHSIM
Date : 14-MAR-2008 13:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vce06	528107208006	0.10/0.50UG/ML	14-MAR-2008 13:20	S8142
L2	vce07	528107208007	0.20/1.0UG/ML	14-MAR-2008 13:53	S8085
L3	vce08	528107208008	0.50/2.5UG/ML	14-MAR-2008 14:27	S8087
L4	vce09	528107208009	1.0/5.0UG/ML	14-MAR-2008 15:02	S8088
L5	vce10	528107208010	2.0/10UG/ML	14-MAR-2008 15:37	S8089
L6	vce11	528107208011	5.0/25UG/ML	14-MAR-2008 16:12	S8090
L7	vce12	528107208012	10/50UG/ML	14-MAR-2008 16:45	S8091

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1171	1.1791	1.0537	1.0986	1.1106	1.1405	1.1470	AVRG		0.89209		1.1210	4	15	0.05	0.99	
2-Methylnaphthalene	0.7083	0.7870	0.7133	0.7531	0.7690	0.8059	0.8161	AVRG		1.30776		0.7647	6	15	0.05	0.99	
Acenaphthylene	1.3688	1.5616	1.4570	1.5884	1.6885	1.8058	1.8312	AVRG		0.61940		1.6145	11	15	0.05	0.99	
Acenaphthene	1.0073	1.1224	1.0093	1.0537	1.0755	1.1167	1.1234	AVRG		0.93229		1.0726	5	15	0.05	0.99	
Fluorene	1.1525	1.3253	1.2136	1.2958	1.3331	1.4219	1.4420	AVRG		0.76219		1.3120	8	15	0.05	0.99	
Phenanthrene	1.1253	1.2469	1.1203	1.1802	1.1969	1.2207	1.1747	AVRG		0.84694		1.1807	4	15	0.05	0.99	
Anthracene	0.9330	1.0725	1.0009	1.0992	1.1513	1.2071	1.1683	AVRG		0.91715		1.0903	9	15	0.05	0.99	
Fluoranthene	1.0645	1.2581	1.1517	1.2449	1.2873	1.3372	1.2930	AVRG		0.81050		1.2338	8	15	0.05	0.99	
Pyrene	1.2556	1.4216	1.2904	1.3644	1.3937	1.4250	1.4153	AVRG		0.73176		1.3666	5	15	0.05	0.99	
Benzo(a)anthracene	1.1163	1.2012	1.0766	1.1405	1.1818	1.2278	1.2105	AVRG		0.85840		1.1650	5	15	0.05	0.99	
Chrysene	1.1835	1.3009	1.1637	1.2130	1.2181	1.2298	1.1952	AVRG		0.82312		1.2149	4	15	0.05	0.99	
Benzo(b)fluoranthene	1.2521	1.3847	1.2620	1.3450	1.4279	1.4718	1.4483	AVRG		0.72979		1.3703	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.2273m	1.4212m	1.2867	1.3891	1.4060	1.4576	1.4187	AVRG		0.72866		1.3724	6	15	0.05	0.99	
Benzo(a)pyrene	1.0688	1.1518	1.0626	1.1486	1.2119	1.2850	1.2921	AVRG		0.85150		1.1744	8	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.7992	0.8950	0.8185	0.8915	0.9455	1.0392	1.0828	AVRG		1.08164		0.9245	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6609	0.7420	0.6927	0.7497	0.7994	0.8803	0.9218	AVRG		1.28518		0.7781	12	15	0.05	0.99	
Benzo(g,h,i)perylene	0.7075	0.7792	0.7035	0.7470	0.7778	0.8425	0.8748	AVRG		1.28860		0.7760	8	15	0.05	0.99	
Nitrobenzene-d5	0.2683	0.2690	0.2470	0.2672	0.2892	0.3259	0.3445	AVRG		3.48082		0.2873	12	15	0.05	0.99	
2-Fluorobiphenyl	1.2786	1.3796	1.2325	1.2936	1.3052	1.3484	1.3344	AVRG		0.76317		1.3103	4	15	0.05	0.99	
Terphenyl-d14	0.9095	1.0551	0.9464	0.9935	1.0055	1.0229	0.9899	AVRG		1.01116		0.9890	5	15	0.05	0.99	

T2SS

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	0	0.200	5	0.500	-6	1.000	-2	2.000	-1	5.000	2	10.00	2
2-Methylnaphthalene	0.100	-7	0.200	3	0.500	-7	1.000	-2	2.000	1	5.000	5	10.00	7
Acenaphthylene	0.100	-15	0.200	-3	0.500	-10	1.000	-2	2.000	5	5.000	12	10.00	13
Acenaphthene	0.100	-6	0.200	5	0.500	-6	1.000	-2	2.000	0	5.000	4	10.00	5
Fluorene	0.100	-12	0.200	1	0.500	-8	1.000	-1	2.000	2	5.000	8	10.00	10
Phenanthrene	0.100	-5	0.200	6	0.500	-5	1.000	0	2.000	1	5.000	3	10.00	-1
Anthracene	0.100	-14	0.200	-2	0.500	-8	1.000	1	2.000	6	5.000	11	10.00	7
Fluoranthene	0.100	-14	0.200	2	0.500	-7	1.000	1	2.000	4	5.000	8	10.00	5
Pyrene	0.100	-8	0.200	4	0.500	-6	1.000	0	2.000	2	5.000	4	10.00	4
Benzo(a)anthracene	0.100	-4	0.200	3	0.500	-8	1.000	-2	2.000	1	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	7	0.500	-4	1.000	0	2.000	0	5.000	1	10.00	-2
Benzo(b)fluoranthene	0.100	-9	0.200	1	0.500	-8	1.000	-2	2.000	4	5.000	7	10.00	6
Benzo(k)fluoranthene	0.100	-11	0.200	4	0.500	-6	1.000	1	2.000	2	5.000	6	10.00	3
Benzo(a)pyrene	0.100	-9	0.200	-2	0.500	-10	1.000	-2	2.000	3	5.000	9	10.00	10
Indeno(1,2,3-cd)pyrene	0.100	-14	0.200	-3	0.500	-11	1.000	-4	2.000	2	5.000	12	10.00	17
Dibenz(a,h)anthracene	0.100	-15	0.200	-5	0.500	-11	1.000	-4	2.000	3	5.000	13	10.00	18
Benzo(g,h,i)perylene	0.100	-9	0.200	0	0.500	-9	1.000	-4	2.000	0	5.000	9	10.00	13
Nitrobenzene-d5	0.100	-7	0.200	-6	0.500	-14	1.000	-7	2.000	1	5.000	13	10.00	20
2-Fluorobiphenyl	0.100	-2	0.200	5	0.500	-6	1.000	-1	2.000	0	5.000	3	10.00	2
Terphenyl-d14	0.100	-8	0.200	7	0.500	-4	1.000	0	2.000	2	5.000	3	10.00	0

JGM 03/14/08 : Manual integrations for tailing compounds.

Analyst: JGM Date: 03/14/08 Reviewer: LW Date: 03/17/08

*=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528107208001

Name : 3PAHSIM
Cal Date : 14-MAR-2008

ICV 528107208013 (vce13 14-MAR-2008) stds: S8092

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1210	1.1565	1.000	1.032	ug/mL	3	20	
2-Methylnaphthalene	0.7647	0.8308	1.000	1.087	ug/mL	9	20	
Acenaphthylene	1.6145	1.6494	1.000	1.022	ug/mL	2	20	
Acenaphthene	1.0726	1.1003	1.000	1.026	ug/mL	3	20	
Fluorene	1.3120	1.3617	1.000	1.038	ug/mL	4	20	
Phenanthrene	1.1807	1.2484	1.000	1.057	ug/mL	6	20	
Anthracene	1.0903	1.0620	1.000	0.9740	ug/mL	-3	20	
Fluoranthene	1.2338	1.3229	1.000	1.072	ug/mL	7	20	
Pyrene	1.3666	1.4027	1.000	1.026	ug/mL	3	20	
Benzo(a)anthracene	1.1650	1.2162	1.000	1.044	ug/mL	4	20	
Chrysene	1.2149	1.2635	1.000	1.040	ug/mL	4	20	
Benzo(b)fluoranthene	1.3703	1.4568	1.000	1.063	ug/mL	6	20	
Benzo(k)fluoranthene	1.3724	1.3790	1.000	1.005	ug/mL	0	20	
Benzo(a)pyrene	1.1744	1.1799	1.000	1.005	ug/mL	0	20	
Indeno(1,2,3-cd)pyrene	0.9245	0.9944	1.000	1.076	ug/mL	8	20	
Dibenz(a,h)anthracene	0.7781	0.8102	1.000	1.041	ug/mL	4	20	
Benzo(g,h,i)perylene	0.7760	0.8024	1.000	1.034	ug/mL	3	20	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA08
Calnum : 578083102001
Units : ug/mL

Name : 8PAHSIM
Date : 26-FEB-2008 17:55

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sbq03	578083102003	0.1/0.5UG/ML	26-FEB-2008 17:55	S8142
L2	sbq04	578083102004	0.2/1.0UG/ML	26-FEB-2008 18:28	S8085
L3	sbq05	578083102005	0.5/2.5UG/ML	26-FEB-2008 19:01	S8087
L4	sbq06	578083102006	1.0/5.0UG/ML	26-FEB-2008 19:34	S8088
L5	sbq07	578083102007	2.0/10UG/ML	26-FEB-2008 20:09	S8089
L6	sbq08	578083102008	5.0/25UG/ML	26-FEB-2008 20:42	S8090
L7	sbq09	578083102009	10/50UG/ML	26-FEB-2008 21:16	S8091

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	0.8929	0.9894	0.9292	1.0768	1.0093	1.1299	1.1030	AVRG	R		0.98167		1.0187	9	15	0.05	0.99	
2-Methylnaphthalene	0.3762m	0.5110m	0.5118m	0.5724m	0.6033m	0.7066		QUAD	A	-0.0153	0.54716	0.032487	0.5469	1.000	15	0.05	0.99	
Acenaphthylene	1.3352	1.8093m	1.4454	1.6374	1.7422	1.8614	1.9822	AVRG	R		0.59257		1.6876	14	15	0.05	0.99	
Acenaphthene	0.8848m	1.1109m	0.8640	0.9682	1.0966	1.0573	1.1409	AVRG	R		0.98278		1.0175	11	15	0.05	0.99	
Fluorene	0.9732m	1.1288m	1.0486	1.1915	1.2788	1.4476		AVRG	R		0.84884		1.1781	14	15	0.05	0.99	
Phenanthrene	0.9766m	1.0950	1.0116	1.0124	1.0695	1.1107	1.3011	AVRG	R		0.92387		1.0824	10	15	0.05	0.99	
Anthracene	0.9760m	1.1655m	0.9929m	1.0243m	1.1707m	1.0877m	1.2968m	AVRG	R		0.90746		1.1020	11	15	0.05	0.99	
Fluoranthene	1.1172m	1.3050m	1.1250m	1.2614	1.3142	1.2822	1.4726	AVRG	R		0.78850		1.2682	10	15	0.05	0.99	
Pyrene	1.3094m	1.3594m	1.2210m	1.2156	1.1813	1.3266	1.3607	AVRG	R		0.78003		1.2820	6	15	0.05	0.99	
Benzo(a)anthracene	1.0121	1.0901	0.9891	1.0242	1.1107	1.1977	1.1986	AVRG	R		0.91834		1.0889	8	15	0.05	0.99	
Chrysene	1.2372m	1.2687m	1.1536m	1.2573m	1.1493m	1.2016m	1.3100	AVRG	R		0.81607		1.2254	5	15	0.05	0.99	
Benzo(b)fluoranthene	0.8179m	0.9987	0.9624	0.9927	1.1574	1.3254		QUAD	A	-0.0361	1.03386	0.059911	1.0424	1.000	15	0.05	0.99	
Benzo(k)fluoranthene	1.1829m	1.2907m	1.1890m	1.2232m	1.3294m	1.3761m	1.4118	AVRG	R		0.77751		1.2862	7	15	0.05	0.99	
Benzo(a)pyrene	0.9854m	1.0719m	1.0150m	1.0234m	1.1131m	1.3100	1.3288	AVRG	R		0.89200		1.1211	13	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9519m	1.0770	1.0866	1.1456	1.3030	1.6530		QUAD	A	-0.0150	1.06684	0.117890	1.2029	1.000	15	0.05	0.99	
Dibenz(a,h)anthracene	0.7279m	0.8754m	0.8464	0.9297	1.0925	1.3539		QUAD	A	-0.0336	0.91519	0.089217	0.9710	1.000	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9567m	1.0841m	0.9867m	1.0867m	1.1926m	1.3797m		AVRG	R		0.89732		1.1144	14	15	0.05	0.99	
Nitrobenzene-d5			0.1035m	0.1480m	0.1411m	0.1876m	0.1768	LINR	R	0.21678	5.46431		0.1514	0.997	15	0.05	0.99	
2-Fluorobiphenyl		1.1628m	1.0892m	1.2742m	1.2928	1.5008	1.5628	AVRG	R		0.76117		1.3138	14	15	0.05	0.99	
Terphenyl-d14		0.9696m	0.8310	0.9055	0.9485	1.0056	1.1041	AVRG	R		1.04090		0.9607	10	15	0.05	0.99	

SEP 2008

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-12	0.200	-3	0.500	-9	1.000	6	2.000	-1	5.000	11	10.00	8
2-Methylnaphthalene	0.100	-4	0.200	6	0.500	-4	1.000	1	2.000	0	5.000	0		
Acenaphthylene	0.100	-21	0.200	7	0.500	-14	1.000	-3	2.000	3	5.000	10	10.00	17
Acenaphthene	0.100	-13	0.200	9	0.500	-15	1.000	-5	2.000	8	5.000	4	10.00	12
Fluorene	0.100	-17	0.200	-4	0.500	-11	1.000	1	2.000	9	5.000	23		
Phenanthrene	0.100	-10	0.200	1	0.500	-7	1.000	-6	2.000	-1	5.000	3	10.00	20
Anthracene	0.100	-11	0.200	6	0.500	-10	1.000	-7	2.000	6	5.000	-1	10.00	18
Fluoranthene	0.100	-12	0.200	3	0.500	-11	1.000	-1	2.000	4	5.000	1	10.00	16
Pyrene	0.100	2	0.200	6	0.500	-5	1.000	-5	2.000	-8	5.000	3	10.00	6
Benzo(a)anthracene	0.100	-7	0.200	0	0.500	-9	1.000	-6	2.000	2	5.000	10	10.00	10
Chrysene	0.100	1	0.200	4	0.500	-6	1.000	3	2.000	-6	5.000	-2	10.00	7
Benzo(b)fluoranthene	0.100	13	0.200	13	0.500	-3	1.000	-6	2.000	2	5.000	0		
Benzo(k)fluoranthene	0.100	-8	0.200	0	0.500	-8	1.000	-5	2.000	3	5.000	7	10.00	10
Benzo(a)pyrene	0.100	-12	0.200	-4	0.500	-9	1.000	-9	2.000	-1	5.000	17	10.00	19
Indeno(1,2,3-cd)pyrene	0.100	2	0.200	6	0.500	-1	1.000	-2	2.000	1	5.000	0		
Dibenz(a,h)anthracene	0.100	15	0.200	12	0.500	-5	1.000	-4	2.000	1	5.000	0		
Benzo(g,h,i)perylene	0.100	-14	0.200	-3	0.500	-11	1.000	-2	2.000	7	5.000	24		
Nitrobenzene-d5					0.500	0	1.000	3	2.000	-12	5.000	7	10.00	-1
2-Fluorobiphenyl			0.200	-11	0.500	-17	1.000	-3	2.000	-2	5.000	14	10.00	19
Terphenyl-d14			0.200	1	0.500	-13	1.000	-6	2.000	-1	5.000	5	10.00	15

AD 02/28/08 : Manual integrations for tailing/splitting of peaks.

AD 02/28/08 [Nitrobenzene-d5]: Calibrated to 0.5ug/mL ONLY. Do not run dilutions (x), where 1 < x < 10.

Analyst: AD Date: 02/28/08 Reviewer: LW Date: 02/28/08

M=manual integration

X=A: Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating); X=R: Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08
Calnum : 578083102001

Name : 8PAHSIM
Cal Date : 26-FEB-2008

ICV 578083102010 (sbq10 26-FEB-2008) stds: S8092

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0187	1.0351	1.000	1.016	ug/mL	2	20	
2-Methylnaphthalene	0.5469	0.6631	1.000	1.160	ug/mL	16	20	
Acenaphthylene	1.6876	1.7793	1.000	1.054	ug/mL	5	20	
Acenaphthene	1.0175	1.0906	1.000	1.072	ug/mL	7	20	
Fluorene	1.1781	1.1998	1.000	1.019	ug/mL	2	20	
Phenanthrene	1.0824	1.1052	1.000	1.021	ug/mL	2	20	
Anthracene	1.1020	1.0569	1.000	0.9591	ug/mL	-4	20	m
Fluoranthene	1.2682	1.4116	1.000	1.113	ug/mL	11	20	
Pyrene	1.2820	1.2884	1.000	1.005	ug/mL	1	20	
Benzo(a)anthracene	1.0889	1.1488	1.000	1.055	ug/mL	6	20	
Chrysene	1.2254	1.3176	1.000	1.075	ug/mL	8	20	m
Benzo(b)fluoranthene	1.0424	1.1873	1.000	1.112	ug/mL	11	20	
Benzo(k)fluoranthene	1.2862	1.2577	1.000	0.9779	ug/mL	-2	20	m
Benzo(a)pyrene	1.1211	1.1758	1.000	1.049	ug/mL	5	20	m
Indeno(1,2,3-cd)pyrene	1.2029	1.4327	1.000	1.198	ug/mL	20	20	
Dibenz(a,h)anthracene	0.9710	1.0933	1.000	1.111	ug/mL	11	20	
Benzo(g,h,i)perylene	1.1144	1.2208	1.000	1.095	ug/mL	10	20	m

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 528115647003.1 File : vck03 Time : 20-MAR-2008 08:27
Cal : 528107208001 Caldate : 14-MAR-2008
Standards: S8088

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1210	1.1004	1.000	0.9817	ug/mL	-2	20	0.0500	
2-Methylnaphthalene	0.7647	0.7487	1.000	0.9792	ug/mL	-2	20	0.0500	
Acenaphthylene	1.6145	1.7685	1.000	1.095	ug/mL	10	20	0.0500	
Acenaphthene	1.0726	1.0832	1.000	1.010	ug/mL	1	20	0.0500	
Fluorene	1.3120	1.3277	1.000	1.012	ug/mL	1	20	0.0500	
Phenanthrene	1.1807	1.1768	1.000	0.9967	ug/mL	0	20	0.0500	
Anthracene	1.0903	1.1537	1.000	1.058	ug/mL	6	20	0.0500	
Fluoranthene	1.2338	1.2621	1.000	1.023	ug/mL	2	20	0.0500	
Pyrene	1.3666	1.2598	1.000	0.9218	ug/mL	-8	20	0.0500	
Benzo(a)anthracene	1.1650	1.0940	1.000	0.9391	ug/mL	-6	20	0.0500	
Chrysene	1.2149	1.1219	1.000	0.9235	ug/mL	-8	20	0.0500	
Benzo(b)fluoranthene	1.3703	1.1942	1.000	0.8715	ug/mL	-13	20	0.0500	
Benzo(k)fluoranthene	1.3724	1.1903	1.000	0.8673	ug/mL	-13	20	0.0500	
Benzo(a)pyrene	1.1744	1.0301	1.000	0.8771	ug/mL	-12	20	0.0500	
Indeno(1,2,3-cd)pyrene	0.9245	0.8375	1.000	0.9058	ug/mL	-9	20	0.0500	
Dibenz(a,h)anthracene	0.7781	0.6960	1.000	0.8945	ug/mL	-11	20	0.0500	
Benzo(g,h,i)perylene	0.7760	0.6996	1.000	0.9015	ug/mL	-10	20	0.0500	
Nitrobenzene-d5	0.2873	0.2650	1.000	0.9223	ug/mL	-8	20	0.0500	
2-Fluorobiphenyl	1.3103	1.2769	1.000	0.9745	ug/mL	-3	20	0.0500	
Terphenyl-d14	0.9890	0.8832	1.000	0.8931	ug/mL	-11	20	0.0500	

Analyst: JAJ Date: 03/21/08 Reviewer: LLH Date: 03/21/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Run Name : PAHSIM IDF : 1.0
Seqnum : 578115801002.1 File : sck02 Time : 20-MAR-2008 10:24
Cal : 578083102001 Caldate : 26-FEB-2008
Standards: S8088

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0187	0.9974	1.000	0.9791	ug/mL	-2	20	0.0500	
2-Methylnaphthalene	0.5469	0.6524	1.000	1.143	ug/mL	14	20	0.0500	m
Acenaphthylene	1.6876	1.5743	1.000	0.9329	ug/mL	-7	20	0.0500	
Acenaphthene	1.0175	0.9646	1.000	0.9480	ug/mL	-5	20	0.0500	
Fluorene	1.1781	1.2243	1.000	1.039	ug/mL	4	20	0.0500	
Phenanthrene	1.0824	1.0166	1.000	0.9392	ug/mL	-6	20	0.0500	
Anthracene	1.1020	1.0358	1.000	0.9400	ug/mL	-6	20	0.0500	m
Fluoranthene	1.2682	1.2483	1.000	0.9843	ug/mL	-2	20	0.0500	
Pyrene	1.2820	1.1636	1.000	0.9076	ug/mL	-9	20	0.0500	
Benzo(a)anthracene	1.0889	1.0159	1.000	0.9329	ug/mL	-7	20	0.0500	
Chrysene	1.2254	1.1038	1.000	0.9008	ug/mL	-10	20	0.0500	m
Benzo(b)fluoranthene	1.0424	1.0207	1.000	0.9679	ug/mL	-3	20	0.0500	
Benzo(k)fluoranthene	1.2862	1.1343	1.000	0.8819	ug/mL	-12	20	0.0500	m
Benzo(a)pyrene	1.1211	0.9254	1.000	0.8255	ug/mL	-17	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2029	1.0233	1.000	0.8864	ug/mL	-11	20	0.0500	
Dibenz(a,h)anthracene	0.9710	0.8109	1.000	0.8519	ug/mL	-15	20	0.0500	
Benzo(g,h,i)perylene	1.1144	0.9328	1.000	0.8370	ug/mL	-16	20	0.0500	
Nitrobenzene-d5	0.1514	0.1406	1.000	0.9850	ug/mL	-2	20	0.0500	m
2-Fluorobiphenyl	1.3138	1.2023	1.000	0.9151	ug/mL	-8	20	0.0500	
Terphenyl-d14	0.9607	0.9532	1.000	0.9922	ug/mL	-1	20	0.0500	

Analyst: JAJ Date: 03/21/08 Reviewer: LLH Date: 03/21/08

m=manual integration

578115801002.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528115647

Date : 03/20/08
Sequence : MSBNA03 vck

Reference : vck03
Analyzed : 03/20/08 08:27

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	38188	7.58	128478	9.20	89562	11.51	151421	13.45	155293	16.91	140300	18.64
		LOWER LIMIT	19094	7.08	64239	8.70	44781	11.01	75711	12.95	77647	16.41	70150	18.14
		UPPER LIMIT	76376	8.08	256956	9.70	179124	12.01	302842	13.95	310586	17.41	280600	19.14
003	CCV	1/5UG/ML	38188	7.58	128478	9.20	89562	11.51	151421	13.45	155293	16.91	140300	18.64
004	BLANK	QC433671	30230	7.58	103589	9.20	75002	11.51	138433	13.45	125875	16.91	114153	18.64
005	LCS	QC433672	28726	7.58	99278	9.20	70483	11.51	128459	13.45	123926	16.91	115580	18.64
006	MSS	202043-001	29412	7.58	103200	9.20	72891	11.51	135075	13.45	121402	16.90	116261	18.63
007	MS	QC433673	27506	7.58	96589	9.20	68997	11.51	126828	13.45	119054	16.91	114192	18.64
008	MSD	QC433674	28729	7.58	101587	9.20	71302	11.50	132953	13.45	121721	16.91	115541	18.64
009	SAMPLE	202043-002	28331	7.58	100642	9.20	69234	11.50	131502	13.45	119445	16.90	114286	18.64
010	SAMPLE	202043-003	27856	7.58	99552	9.20	68809	11.50	129468	13.45	116519	16.90	114672	18.63
011	SAMPLE	202043-005	29187	7.58	102233	9.20	73345	11.50	131880	13.45	87639	16.90	62487 *	18.65
012	SAMPLE	201858-022	27554	7.58	98783	9.20	67819	11.50	125583	13.45	86407	16.90	72575	18.63
013	SAMPLE	201858-023	27250	7.58	97753	9.20	68278	11.50	126718	13.45	106710	16.90	89624	18.63
014	SAMPLE	201858-024	28911	7.58	102980	9.20	71309	11.50	135492	13.45	121105	16.90	110918	18.63
015	BLANK	QC433651	31388	7.57	106580	9.19	74034	11.50	126340	13.45	117646	16.90	115162	18.63
016	LCS	QC433652	32396	7.57	110902	9.20	77899	11.50	134951	13.45	132534	16.90	132335	18.63
017	SAMPLE	201892-003	31266	7.57	106735	9.20	75310	11.50	131907	13.45	124248	16.90	126847	18.63
018	SAMPLE	201892-007	31929	7.57	109905	9.20	78287	11.50	135975	13.45	128322	16.90	130662	18.63
019	MSS	201989-003	30433	7.57	101609	9.20	67790	11.51	99913	13.45	85024	16.91	81874	18.64
020	SAMPLE	201989-004	27715	7.57	98479	9.20	67654	11.50	120237	13.45	101559	16.90	93823	18.64
021	MSS	201989-006	28366	7.57	99829	9.20	69758	11.50	123588	13.45	109819	16.90	104346	18.63

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 578115801

Date : 03/20/08
Sequence : MSBNA08 sck

Reference : sck02
Analyzed : 03/20/08 10:24

#	Type	Sample ID	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	64577	10.60	45669	12.82	83109	14.72	92399	18.27	87612	20.21
		LOWER LIMIT	32289	10.10	22835	12.32	41555	14.22	46200	17.77	43806	19.71
		UPPER LIMIT	129154	11.10	91338	13.32	166218	15.22	184798	18.77	175224	20.71
002	CCV	PAHSIM	64577	10.60	45669	12.82	83109	14.72	92399	18.27	87612	20.21
003	SAMPLE	202043-004	49240	10.60	32551	12.82	58845	14.72	55558	18.28	55092	20.21
004	SAMPLE	202043-006	54901	10.59	36164	12.82	66702	14.72	62786	18.27	68790	20.21
005	SAMPLE	202043-007	55484	10.59	36028	12.82	67816	14.72	62605	18.28	64285	20.21
006	SAMPLE	202043-008	91136	10.59	46820	12.82	80892	14.72	80124	18.28	90294	20.22
007	SAMPLE	202043-009	63174	10.59	41571	12.81	72251	14.72	72626	18.28	87997	20.23
008	SAMPLE	201858-020	62142	10.59	44474	12.82	85536	14.72	78664	18.29	91003	20.22
009	SAMPLE	201858-021	63302	10.59	41456	12.82	74155	14.72	69585	18.28	73870	20.22
010	SAMPLE	201858-025	60695	10.59	40165	12.82	72658	14.72	66354	18.28	70258	20.21
011	SAMPLE	201858-026	64111	10.59	41226	12.82	73335	14.72	68567	18.28	72650	20.21
012	SAMPLE	201858-027	62443	10.59	41657	12.82	73131	14.72	68454	18.27	72428	20.21
013	SAMPLE	202043-005	64519	10.59	40721	12.82	71925	14.72	73986	18.28	92892	20.23
014	SAMPLE	201858-029	64989	10.59	40993	12.82	72938	14.72	66586	18.27	71190	20.21
015	SAMPLE	201858-030	57269	10.59	37419	12.82	67636	14.72	69651	18.28	74929	20.22
016	SAMPLE	201858-031	63360	10.59	39923	12.81	71519	14.72	69142	18.27	70442	20.21

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528107208

Instrument : MSBNA03
Method : EPA 8270C, EPA 8270C-SIM

Begun : 03/14/08 10:48
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vce01	TUN	DFTPP/PEM 50UG/ML			03/14/08 10:48	1.0	1
002	vce02	TUN	DFTPP/PEM 50UG/ML			03/14/08 11:19	1.0	1
003	vce03	TUN	DFTPP/PEM 50UG/ML			03/14/08 11:45	1.0	1
004	vce04	TUN	DFTPP/PEM 50UG/ML			03/14/08 12:13	1.0	1
005	vce05	TUN	DFTPP/PEM 50UG/ML			03/14/08 12:55	1.0	1
006	vce06	ICAL	0.10/0.50UG/ML			03/14/08 13:20	1.0	2
007	vce07	ICAL	0.20/1.0UG/ML			03/14/08 13:53	1.0	3
008	vce08	ICAL	0.50/2.5UG/ML			03/14/08 14:27	1.0	4
009	vce09	ICAL	1.0/5.0UG/ML			03/14/08 15:02	1.0	5
010	vce10	ICAL	2.0/10UG/ML			03/14/08 15:37	1.0	6
011	vce11	ICAL	5.0/25UG/ML			03/14/08 16:12	1.0	7
012	vce12	ICAL	10/50UG/ML			03/14/08 16:45	1.0	8
013	vce13	ICV	1.0/10UG/ML			03/14/08 17:20	1.0	9

Analyst: JGM Date: 03/14/08 Reviewer: LW Date: 03/17/08

Standards used: 1=S7771 2=S8142 3=S8085 4=S8087 5=S8088 6=S8089 7=S8090 8=S8091 9=S8092

: 00034

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528115647

Instrument : MSBNA03
Method : EPA 8270C, EPA 8270C-SIM
Begun : 03/20/08 07:27
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vck01	TUN	DFTPP/PEM 50UG/ML			03/20/08 07:27	1.0	1
002	vck02	TUN	DFTPP/PEM 50UG/ML			03/20/08 08:01	1.0	1
003	vck03	CCV	1/5UG/ML			03/20/08 08:27	1.0	2
004	vck04	BLANK	QC433671	Soil	136173	03/20/08 09:02	1.0	3
005	vck05	LCS	QC433672	Soil	136173	03/20/08 09:40	1.0	3
006	vck06	MSS	202043-001	Soil	136173	03/20/08 10:15	1.0	3
007	vck07	MS	QC433673	Soil	136173	03/20/08 10:49	1.0	3
008	vck08	MSD	QC433674	Soil	136173	03/20/08 11:24	1.0	3
009	vck09	SAMPLE	202043-002	Soil	136173	03/20/08 11:58	1.0	3
010	vck10	SAMPLE	202043-003	Soil	136173	03/20/08 12:33	1.0	3
011	vck11	SAMPLE	202043-005	Soil	136173	03/20/08 13:08	2.0	3
012	vck12	SAMPLE	201858-022	Soil	136173	03/20/08 13:42	1.0	3
013	vck13	SAMPLE	201858-023	Soil	136173	03/20/08 14:17	1.0	3
014	vck14	SAMPLE	201858-024	Soil	136173	03/20/08 14:51	1.0	3
015	vck15	BLANK	QC433651	Water	136169	03/20/08 16:17	1.0	3
016	vck16	LCS	QC433652	Water	136169	03/20/08 16:52	1.0	3
017	vck17	SAMPLE	201892-003	Water	136169	03/20/08 17:27	1.0	3
018	vck18	SAMPLE	201892-007	Water	136169	03/20/08 18:00	1.0	3
019	vck19	MSS	201989-003	Water	136169	03/20/08 18:33	1.0	3
020	vck20	SAMPLE	201989-004	Water	136169	03/20/08 19:08	1.0	3
021	vck21	MSS	201989-006	Water	136169	03/20/08 19:42	1.0	3
022	vck22	TUN	DFTPP/PEM 50UG/ML			03/20/08 22:11	1.0	1
023	vck23	TUN	DFTPP/PEM 50UG/ML			03/20/08 22:27	1.0	1
024	vck24	TUN	DFTPP/PEM 50UG/ML			03/20/08 22:42	1.0	1
025	vck25	TUN	DFTPP/PEM 50UG/ML			03/20/08 23:06	1.0	1
026	vck26	TUN	DFTPP/PEM 50UG/ML			03/20/08 23:21	1.0	1

Standards used: 1=S7771 2=S8088 3=S8540

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 578083102

Instrument : MSBNA08
Method : EPA 8270C, EPA 8270C-SIM
Begun : 02/26/08 17:02
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	sbq01	TUN	DFTPP/PEM 50UG/ML			02/26/08 17:02	1.0	1	
002	sbq02	TUN	DFTPP/PEM 50UG/ML			02/26/08 17:35	1.0	1	
003	sbq03	ICAL	0.1/0.5UG/ML			02/26/08 17:55	1.0	2	
004	sbq04	ICAL	0.2/1.0UG/ML			02/26/08 18:28	1.0	3	
005	sbq05	ICAL	0.5/2.5UG/ML			02/26/08 19:01	1.0	4	
006	sbq06	ICAL	1.0/5.0UG/ML			02/26/08 19:34	1.0	5	
007	sbq07	ICAL	2.0/10UG/ML			02/26/08 20:09	1.0	6	
008	sbq08	ICAL	5.0/25UG/ML			02/26/08 20:42	1.0	7	
009	sbq09	ICAL	10/50UG/ML			02/26/08 21:16	1.0	8	
010	sbq10	ICV	1.0/10UG/ML			02/26/08 21:49	1.0	9	

Analyst: AD Date: 02/28/08 Reviewer: LW Date: 02/28/08

Standards used: 1=S7771 2=S8142 3=S8085 4=S8087 5=S8088 6=S8089 7=S8090 8=S8091 9=S8092

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 578115801

Instrument : MSBNA08
Method : EPA 8270C, EPA 8270C-SIM
Begun : 03/20/08 10:01
SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	sck01	TUN	DFTPP 50NG			03/20/08 10:01	1.0	1
002	sck02	CCV	PAHSIM			03/20/08 10:24	1.0	2
003	sck03	SAMPLE	202043-004	Soil	136173	03/20/08 10:58	1.0	3
004	sck04	SAMPLE	202043-006	Soil	136173	03/20/08 11:32	1.0	3
005	sck05	SAMPLE	202043-007	Soil	136173	03/20/08 12:05	1.0	3
006	sck06	SAMPLE	202043-008	Soil	136173	03/20/08 12:39	1.0	3
007	sck07	SAMPLE	202043-009	Soil	136173	03/20/08 13:13	1.0	3
008	sck08	SAMPLE	201858-020	Soil	136173	03/20/08 13:47	1.0	3
009	sck09	SAMPLE	201858-021	Soil	136173	03/20/08 14:21	1.0	3
010	sck10	SAMPLE	201858-025	Soil	136173	03/20/08 14:55	1.0	3
011	sck11	SAMPLE	201858-026	Soil	136173	03/20/08 15:30	1.0	3
012	sck12	SAMPLE	201858-027	Soil	136173	03/20/08 16:04	1.0	3
013	sck13	SAMPLE	202043-005	Soil	136173	03/20/08 16:40	2.0	3
014	sck14	SAMPLE	201858-029	Soil	136173	03/20/08 17:16	1.0	3
015	sck15	SAMPLE	201858-030	Soil	136173	03/20/08 17:51	1.0	3
016	sck16	SAMPLE	201858-031	Soil	136173	03/20/08 18:25	1.0	3

Standards used: 1=S7771 2=S8088 3=S8083

SAMPLE PREPARATION SUMMARY

Batch # : 136173
Started By : KR
Method : 3550B
Spike #1 ID : S8575
Prep Date : 19-MAR-2008
SOP Version : 8270_SIM_rv1
Spike #2 ID : S8508
Analysis : 8270-SIM
Finished By : KR
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
201858-020		Soil	30.22	1	1	0.03309		1				8270-SIM	
201858-021		Soil	30.15	1	1	0.03317		1				8270-SIM	
201858-022		Soil	30.11	1	1	0.03321		1				8270-SIM	
201858-023		Soil	30.02	1	1	0.03331		1				8270-SIM	
201858-024		Soil	30.29	1	1	0.03301		1				8270-SIM	
201858-025		Soil	30.27	1	1	0.03304		1				8270-SIM	
201858-026		Soil	30.4	1	1	0.03289		1				8270-SIM	
201858-027		Soil	30.11	1	1	0.03321		1				8270-SIM	
201858-029		Soil	30.19	1	1	0.03312		1				8270-SIM	
201858-030		Soil	30.28	1	1	0.03303		1				8270-SIM	
201858-031		Soil	30.05	1	1	0.03328		1				8270-SIM	
202043-001		Soil	29.57	1	1	0.03382		1				8270-SIM	mss
202043-002		Soil	30.23	1	1	0.03308		1				8270-SIM	
202043-003		Soil	30.11	1	1	0.03321		1				8270-SIM	
202043-004		Soil	30.17	1	1	0.03315		1				8270-SIM	
202043-005		Soil	30.42	1	1	0.03287		1				8270-SIM	
202043-006		Soil	30.23	1	1	0.03308		1				8270-SIM	
202043-007		Soil	30.2	1	1	0.03311		1				8270-SIM	
202043-008		Soil	30.18	1	1	0.03313		1				8270-SIM	
202043-009		Soil	30.27	1	1	0.03304		1				8270-SIM	
QC433671	BLANK	Soil	30.07	1	1	0.03326		1				8270-SIM	
QC433672	LCS	Soil	30.04	1	1	0.03329		1	1			8270-SIM	
QC433673	MS	Soil	29.8	1	1	0.03356		1	1			8270-SIM	
QC433674	MSD	Soil	29.66	1	1	0.03372		1	1			8270-SIM	

Analyst: LLH Date: 03/20/08 Reviewer: JAJ Date: 03/20/08

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 38 **BK2665**

LIMS Batch No: 136173
LIMS Analysis 8270.SIM
Date Extracted: 3/19/08

Extraction Method:
☑ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

	Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	2018558-020 A	A	30.22	1.0		
	21		30.15			
	22		30.11			
	23		30.02			
5	24		30.29			
	25		30.27			
	26		30.40			
	27		30.11			
	29		30.19			
10	30		30.28			
	31		30.05			
	2020413-001 M	M	29.57			MSS
	2 G	G	30.23			
	3		30.11			
15	4		30.17			
	5		30.42			
	6		30.23			
	7		30.20			
	8		30.18			
20	9		30.27			
	BLANK BC433671		30.07			
	LCS 72		30.04			
	MS 73		29.80			
	MSD 74		29.66			
						RFW 3/20/08

	Mfg & Lot # / LIMS # / Time	Date/Initial
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM4728174 8/EM4728804	3/19/08 MR
1.0 mL of surrogate solution was added to all samples	S8575A	
1.0 mL of matrix spiking solution was added to all spikes	S8568A	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM48028	
Acetone	EM47190	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM4728804	
Concentrated to final volume at temperature (degrees C)	70.2	
Relinquished to BNA department	FREEZER 'BNA2'	

3/19/08
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/20/08
Reviewed by / Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH#	COMMENTS
201994-001 A	30.31	8100		
2	30.07			
3	30.34			
4	30.09			
5	30.11			
6	30.08			
7	29.85			
8	30.14			
9	30.15			
10	30.24			
11	29.85			
12	30.02			
13 30g 3/14/08	30.47			
14	29.81			
15	29.91			
16	29.94			
17	30.35			
18	30.00			
				JOB 3/18/08
201858-020A	30.22	8270-SIM	186173	
21	30.15			~~MSS~~ KR 3/19/08
22	30.11			
23	30.02			
24	30.29			
25	30.27			
26	30.40			
27	30.11			
29	30.19			
30	30.28			
31	30.05			
32	30.14			
MB	30.07		186173	EM472817 48
LCS	30.04			
MS	30.03			201858-021A
MSD	30.07			
				MS cont 3/14/08 ~~3/19/08~~ Page

Read and Understood By

Signed Date Signed Date

166 Project SOIL ALIQUOT BLK26627

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
2020943-001M	29.57	8270.SIM	136173	MSS
2	30.23			
3	30.11			
4	30.17			
5	30.92			
6	30.23			
7	30.20			
8	30.18			
9	30.27			
MS	29.80			2020943-001M
MSD	29.66			KR 3/19/08

Continued on Page

Read and Understood By

Signed Date Signed Date

Sample Raw Data

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst	: MSBNA03	Lab ID	: 202043-001	Client ID	: 1065EX307[6.0]
Seqnum	: 528115647006	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: vck06	Batch	: 136173	Time	: 20-MAR-2008 10:15
Cal	: 528107208001	Caldate	: 14-MAR-2008		
IDF	: 1.0	Raw Units	: ug/mL	Units	: ug/Kg

29.57 g --> 1.0 ml = 0.03382 ml/g PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.01080	ND	5.1		u
2-Methylnaphthalene	0.009900	ND	5.1		u
Acenaphthylene	0.01310	ND	5.1		u
Acenaphthene	0.001800	ND	5.1		u
Fluorene	0.004300	ND	5.1		u
Phenanthrene	0.04300	1.5 J	5.1		u
Anthracene	0.008300	ND	5.1		u
Fluoranthene	0.08380	2.8 J	5.1		u
Pyrene	0.1223	4.1 J	5.1		u
Benzo(a)anthracene	0.05360	1.8 J	5.1		u
Chrysene	0.05860	2.0 J	5.1		u
Benzo(b)fluoranthene	0.05860	2.0 J	5.1		u
Benzo(k)fluoranthene	0.01830	ND	5.1		m u
Benzo(a)pyrene	0.04920	1.7 J	5.1		u
Indeno(1,2,3-cd)pyrene	0.03370	1.1 J	5.1		u
Dibenz(a,h)anthracene	0.008900	ND	5.1		u
Benzo(g,h,i)perylene	0.04490	1.5 J	5.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.9260	33.82	31.32	93	23-120	u
2-Fluorobiphenyl	0.9216	33.82	31.17	92	30-115	u
Terphenyl-d14	0.9783	33.82	33.08	98	18-137	u

ISTD (CCV vck03)	CCV Area	MSS Area	%Drift	CCV RT	MSS RT	Drift
1,4-Dichlorobenzene-d4	38188	29412	-22.98	7.58	7.58	0.00
Naphthalene-d8	128478	103200	-19.67	9.20	9.20	0.00
Acenaphthene-d10	89562	72891	-18.61	11.51	11.51	0.00
Phenanthrene-d10	151421	135075	-10.80	13.45	13.45	0.00
Chrysene-d12	155293	121402	-21.82	16.91	16.90	-0.01
Perylene-d12	140300	116261	-17.13	18.64	18.63	-0.01

JAJ: 03/20/08 LLH: 03/20/08 EAH: 03/21/08

m=manual integration u=use

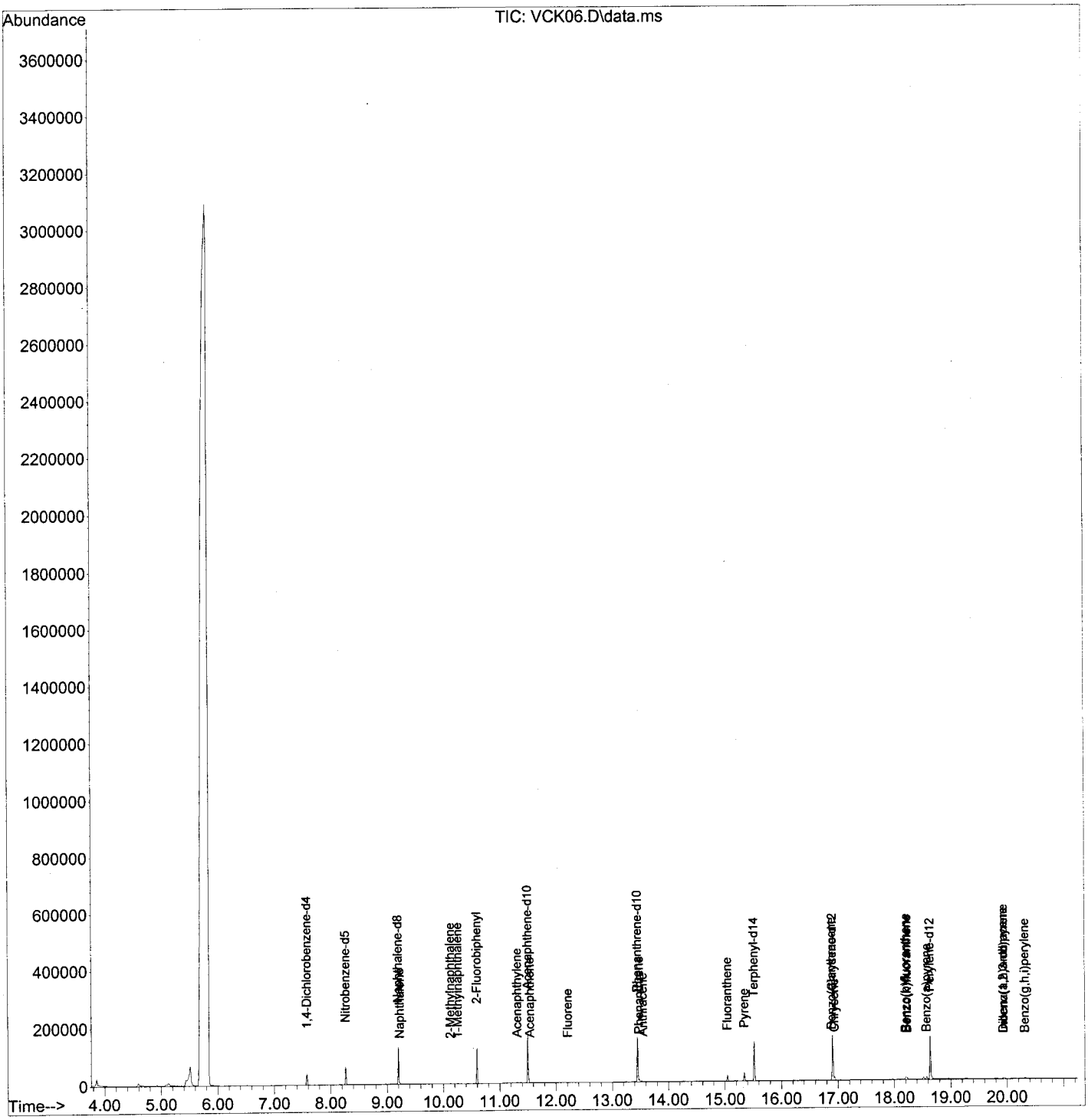
528115647006

: 00043

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK06.D
Acq On : 20 Mar 2008 10:15 am
Operator :
Sample : MSS,202043-001
Misc : 136173,1,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 11:47:11 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK06.D
Acq On : 20 Mar 2008 10:15 am
Operator :
Sample : MSS,202043-001
Misc : 136173,1,
ALS Vial : 5 Sample Multiplier: 1

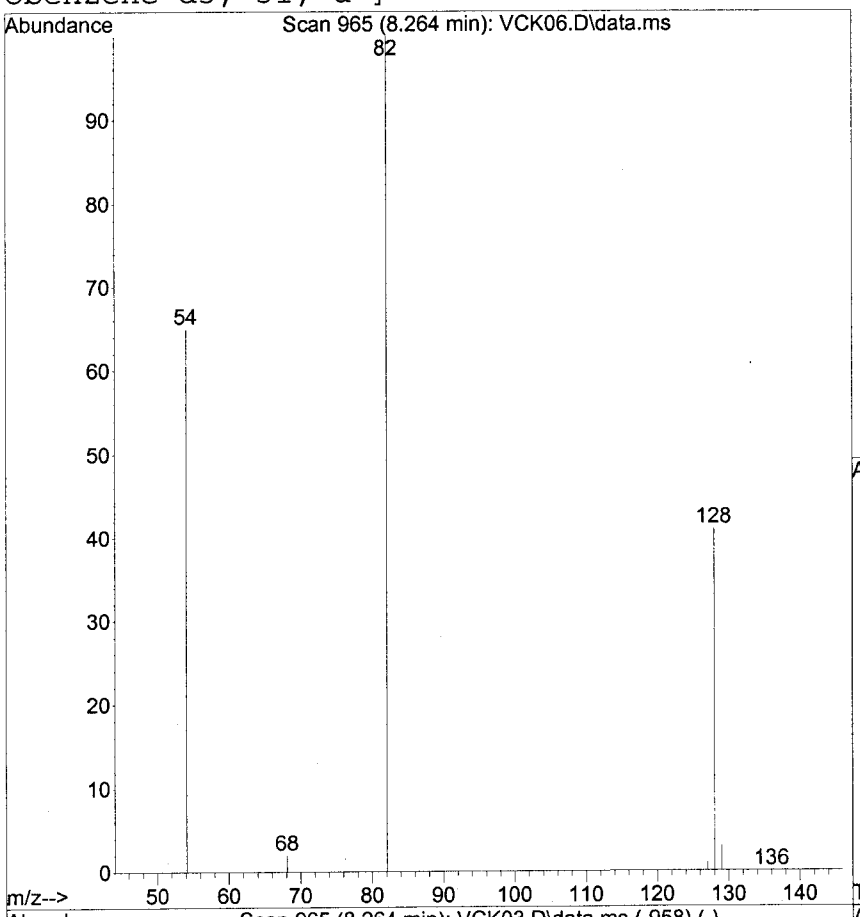
Quant Time: Mar 20 11:47:11 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units		Rel.RT
1) 1,4-Dichlorobenzene-d4	7.579	152	29412	1.0000	ug/mL		0.00
3) Naphthalene-d8	9.201	136	103200	1.0000	ug/mL		0.00
8) Acenaphthene-d10	11.506	164	72891	1.0000	ug/mL		0.00
13) Phenanthrene-d10	13.452	188	135075	1.0000	ug/mL		0.00
17) Chrysene-d12	16.903	240	121402	1.0000	ug/mL		0.00
22) Perylene-d12	18.633	264	116261	1.0000	ug/mL		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.			
4) Nitrobenzene-d5	8.264	82	27455	0.9260	ug/mL		85
5) Naphthalene	9.229	128	1255	0.0108	ug/mL		85
6) 2-Methylnaphthalene	10.125	142	778	0.0099	ug/mL		93
7) 1-Methylnaphthalene	10.257	142	768	0.0094	ug/mL		100
9) 2-Fluorobiphenyl	10.598	172	88025	0.9216	ug/mL		100
10) Acenaphthylene	11.317	152	1546	0.0131	ug/mL		90
11) Acenaphthene	11.544	154	137	0.0018	ug/mL	#	84
12) Fluorene	12.217	166	413	0.0043	ug/mL		85
14) Phenanthrene	13.482	178	6862	0.0430	ug/mL		98
15) Anthracene	13.548	178	1220	0.0083	ug/mL		90
16) Fluoranthene	15.044	202	13974	0.0838	ug/mL		97
18) Pyrene	15.345	202	20297	0.1223	ug/mL		99
19) Terphenyl-d14	15.516	244	117461	0.9783	ug/mL		83
20) Benzo(a)anthracene	16.888	228	7582	0.0536	ug/mL		92
21) Chrysene	16.936	228	8650	0.0586	ug/mL		96
23) Benzo(b)fluoranthene	18.199	252	9329	0.0586	ug/mL		87
24) Benzo(k)fluoranthene	18.226	252	2921m	0.0183	ug/mL		
25) Benzo(a)pyrene	18.570	252	6718	0.0492	ug/mL	#	89
26) Indeno(1,2,3-cd)pyrene	19.940	276	3619	0.0337	ug/mL	#	23
27) Dibenz(a,h)anthracene	19.937	278	805	0.0089	ug/mL	#	40
28) Benzo(g,h,i)perylene	20.317	276	4051	0.0449	ug/mL	#	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

[Nitrobenzene-d5; 31; u]

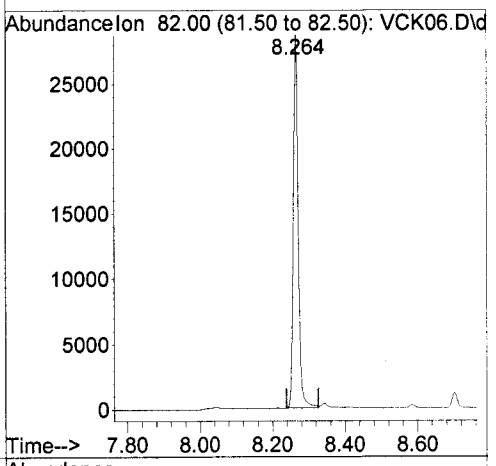
Raw



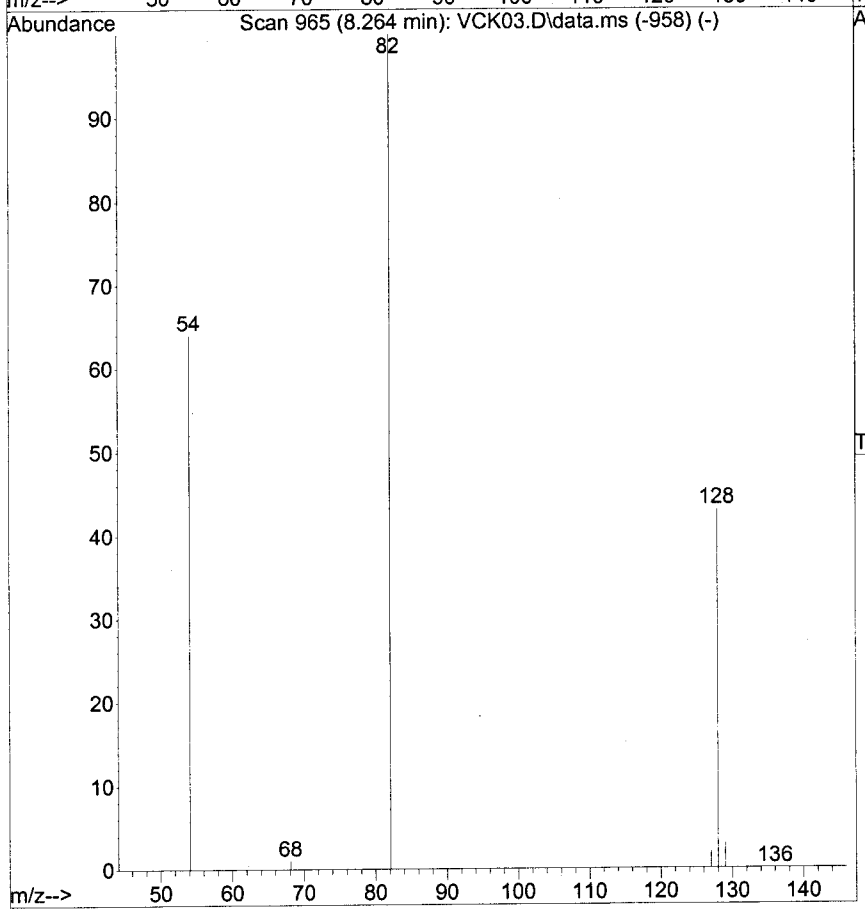
#4
Nitrobenzene-d5
Concen: 0.9260 ug/mL
RT: 8.264 min Scan# 965
Delta R.T. 0.001 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

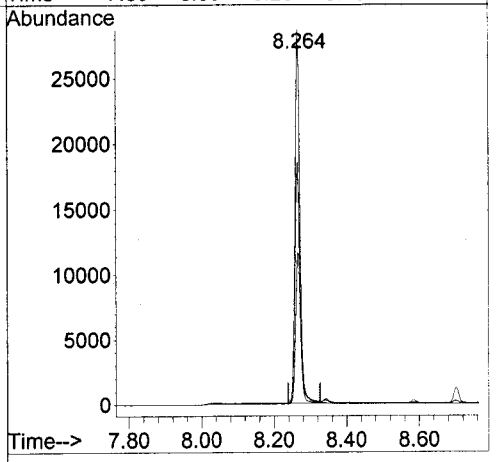
Tgt Ion: 82 Resp: 27455

Ion	Ratio	Lower	Upper
82	100		
128	40.7	10.5	50.5
54	64.8	56.2	96.2



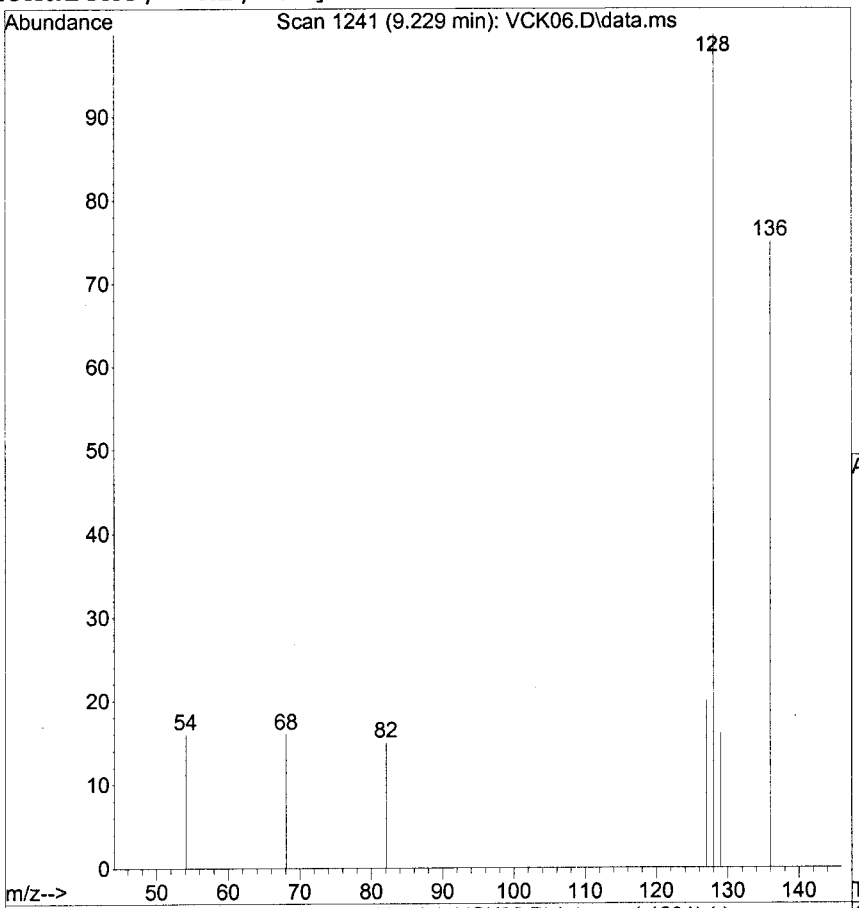
Ref





[Naphthalene; <RL; u]

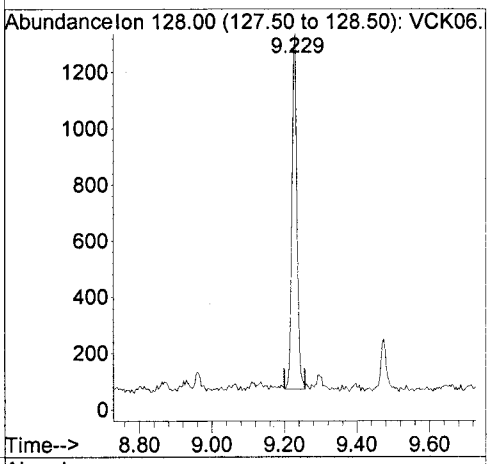
Raw



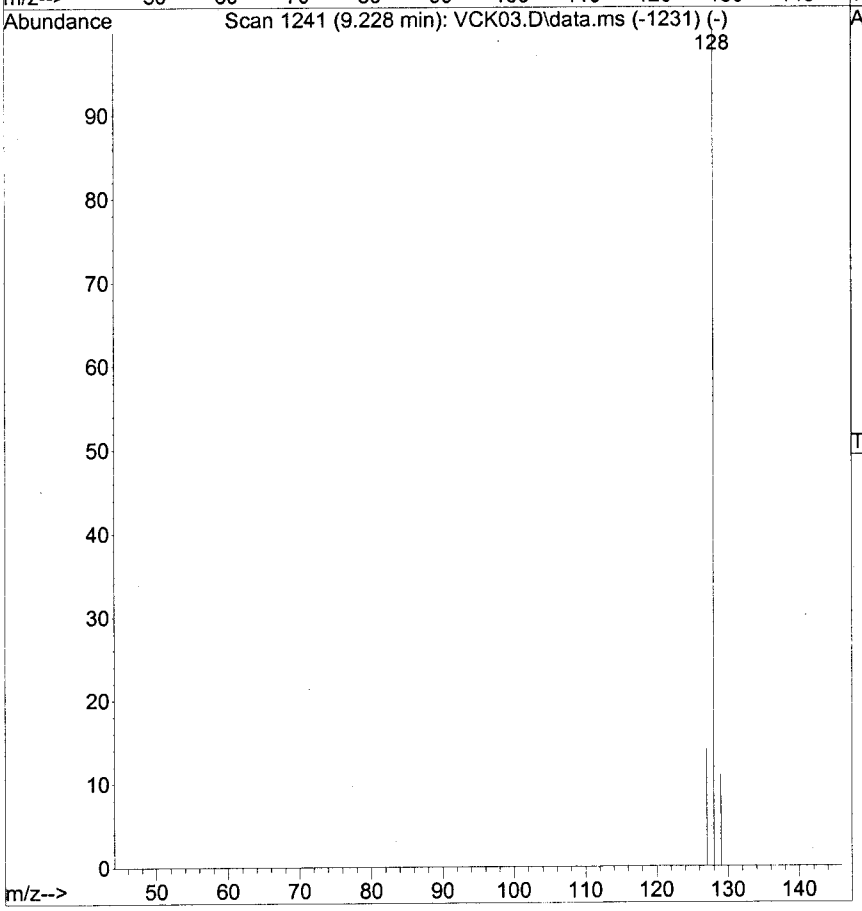
#5
Naphthalene
Concen: 0.0108 ug/mL
RT: 9.229 min Scan# 1241
Delta R.T. 0.001 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

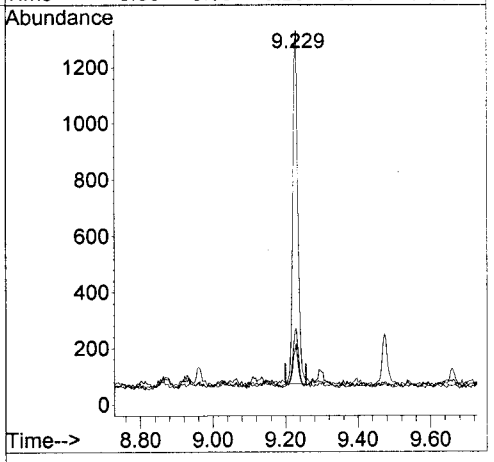
Tgt Ion:128 Resp: 1255

Ion	Ratio	Lower	Upper
128	100		
129	16.2	0.0	31.1
127	20.3	0.0	34.0



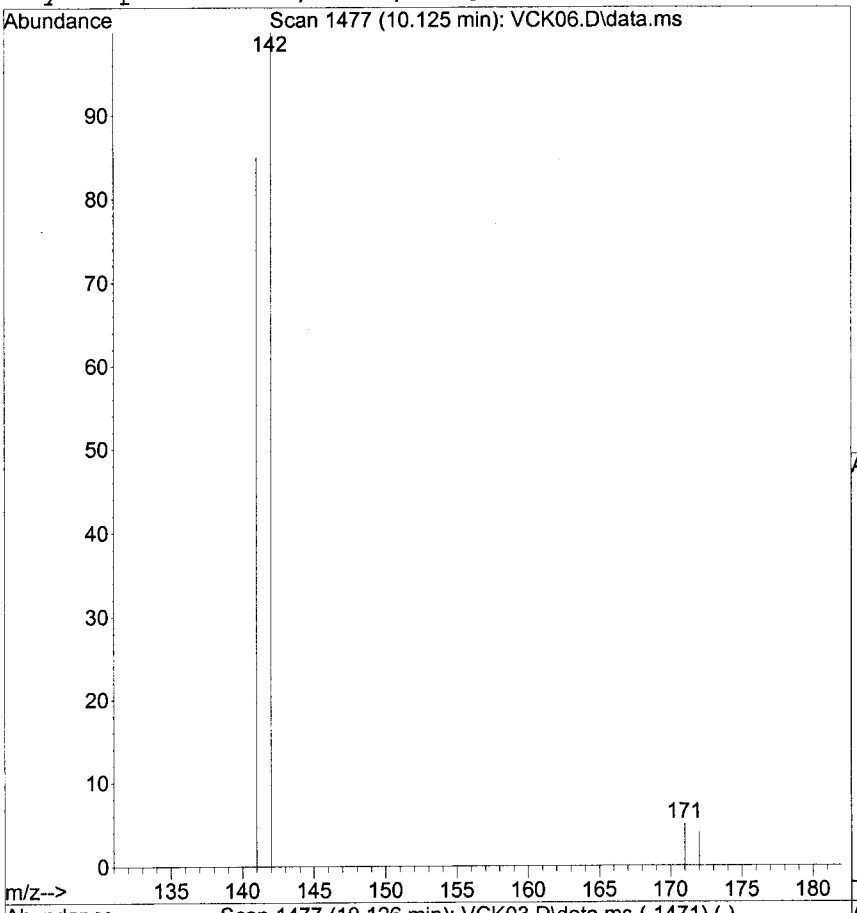
Ref





[2-Methylnaphthalene; <RL; u]

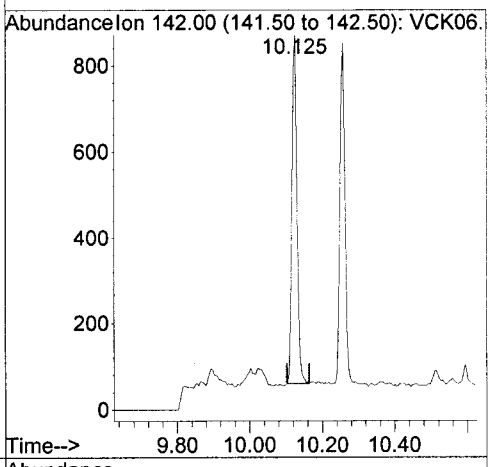
Raw



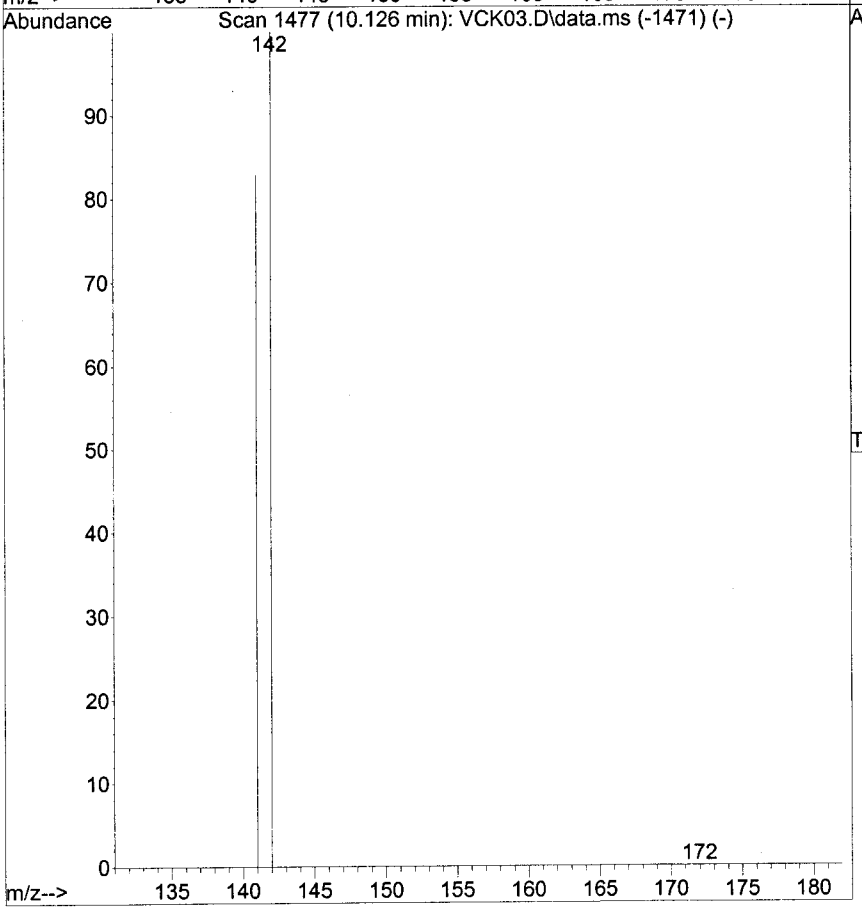
#6
2-Methylnaphthalene
Concen: 0.0099 ug/mL
RT: 10.125 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

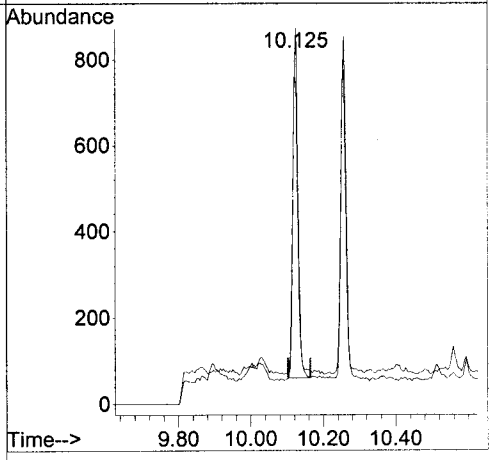
Tgt Ion:142 Resp: 778

Ion	Ratio	Lower	Upper
142	100		
141	85.1	71.3	111.3



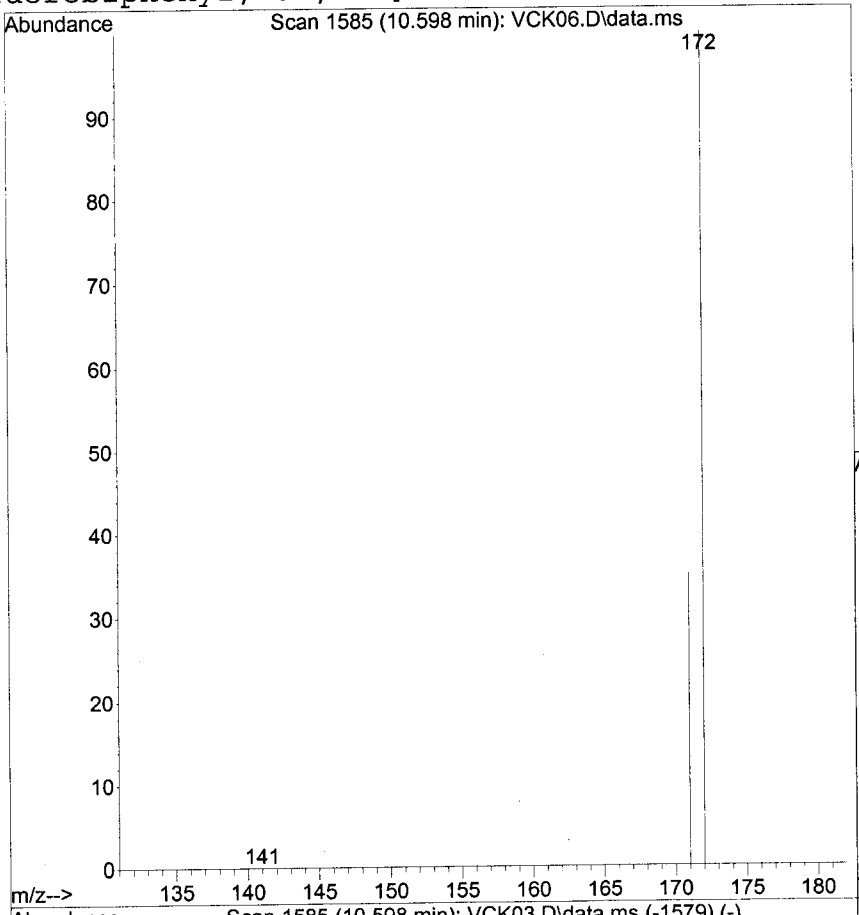
Ref





[2-Fluorobiphenyl; 31; u]

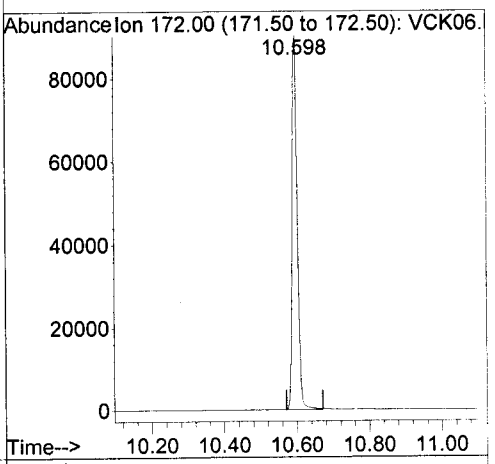
Raw



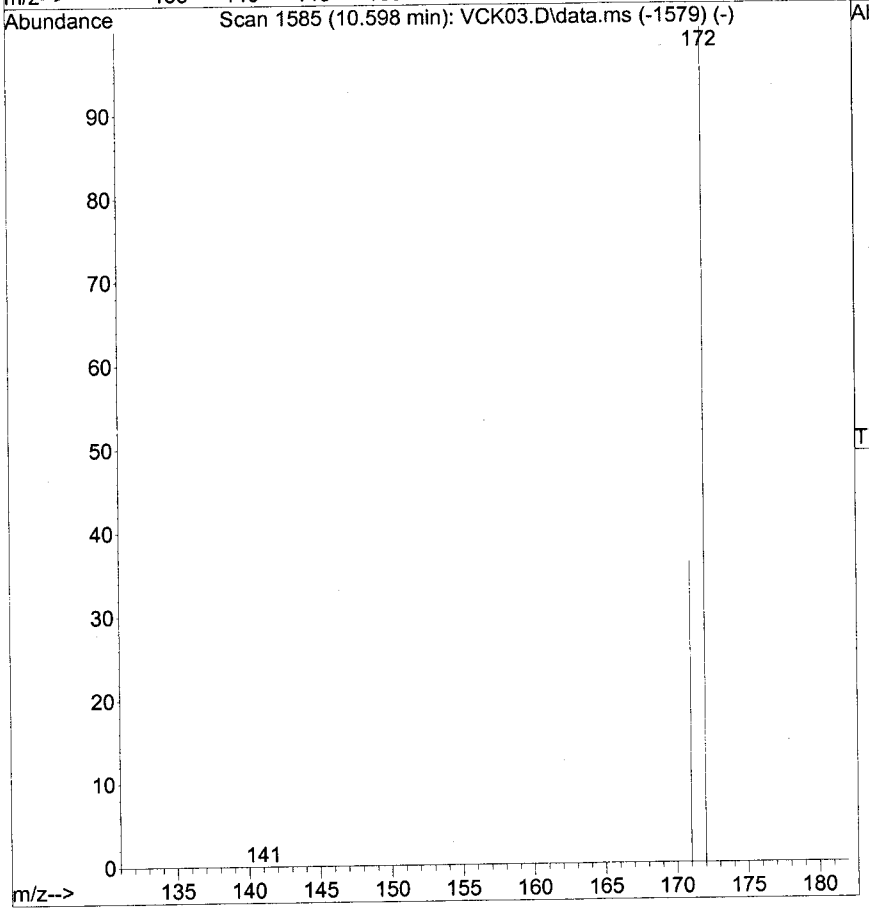
#9
2-Fluorobiphenyl
Concen: 0.9216 ug/mL
RT: 10.598 min Scan# 1585
Delta R.T. -0.000 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

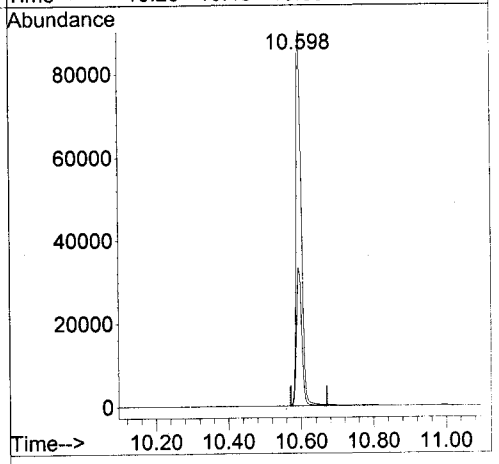
Tgt Ion:172 Resp: 88025

Ion	Ratio	Lower	Upper
172	100		
171	34.5	14.4	54.4



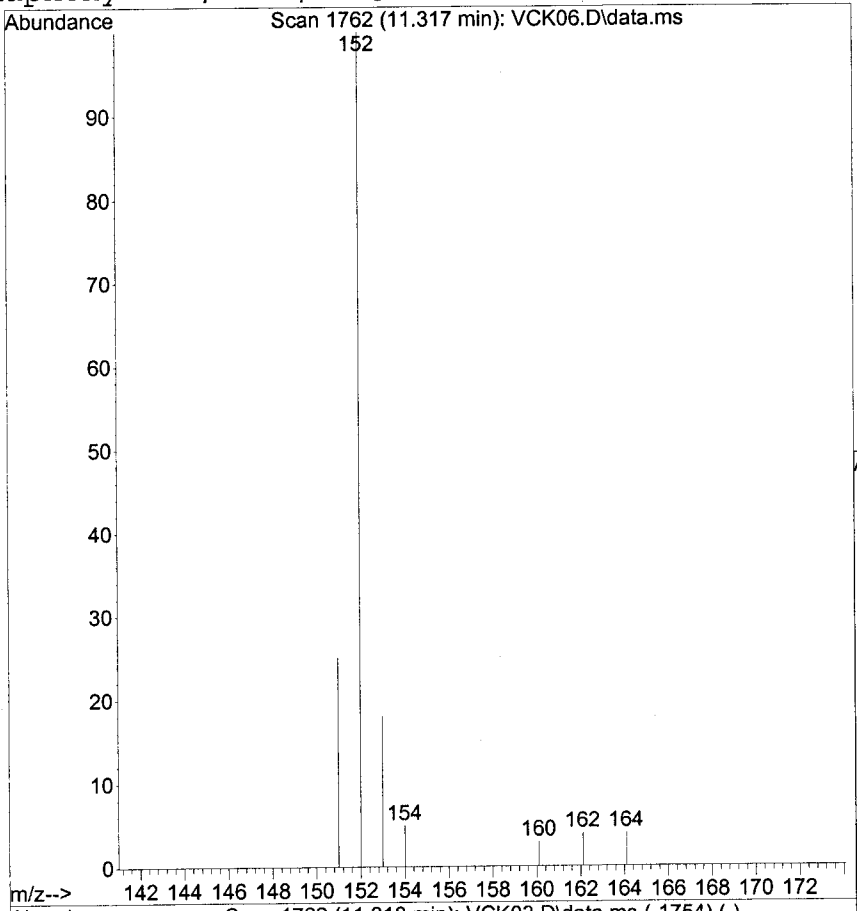
Ref





[Acenaphthylene; <RL; u]

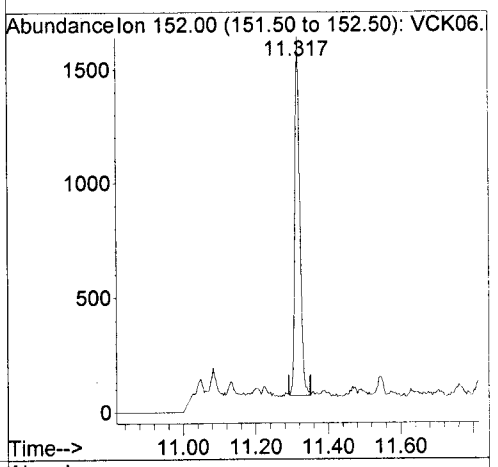
Raw



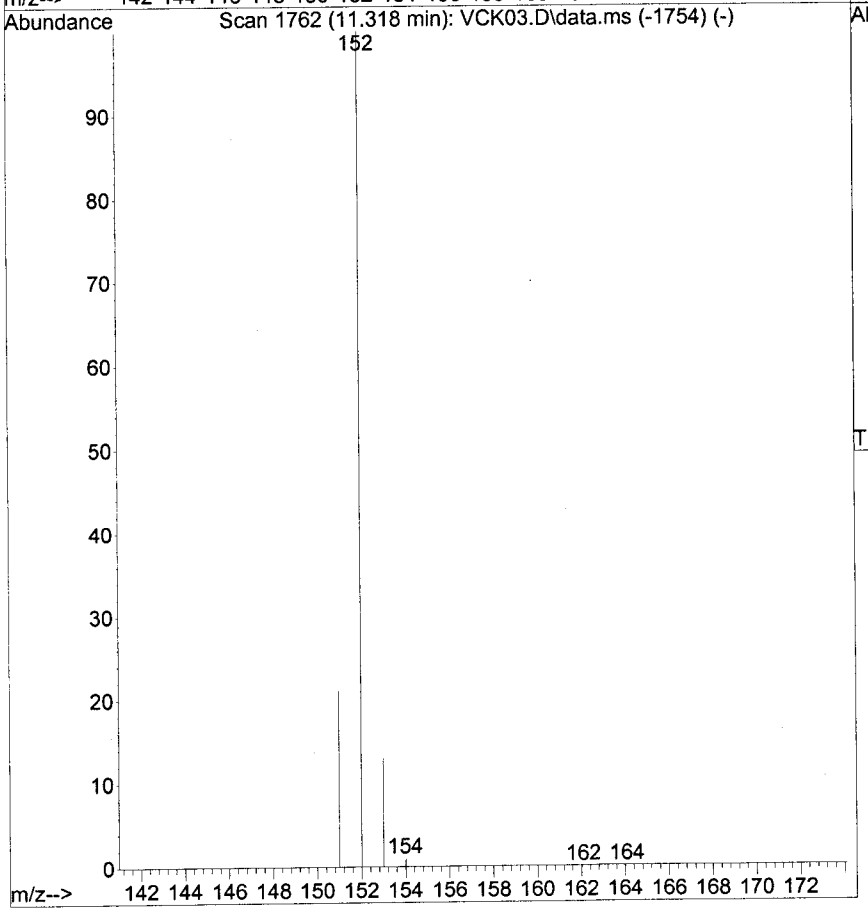
#10
Acenaphthylene
Concen: 0.0131 ug/mL
RT: 11.317 min Scan# 1762
Delta R.T. -0.001 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

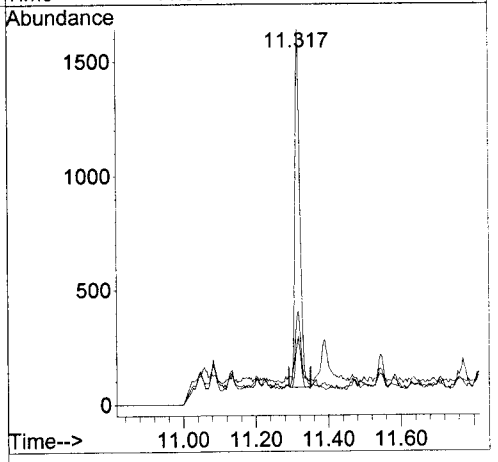
Tgt Ion:152 Resp: 1546

Ion	Ratio	Lower	Upper
152	100		
151	24.7	1.0	41.0
153	18.0	0.0	33.1



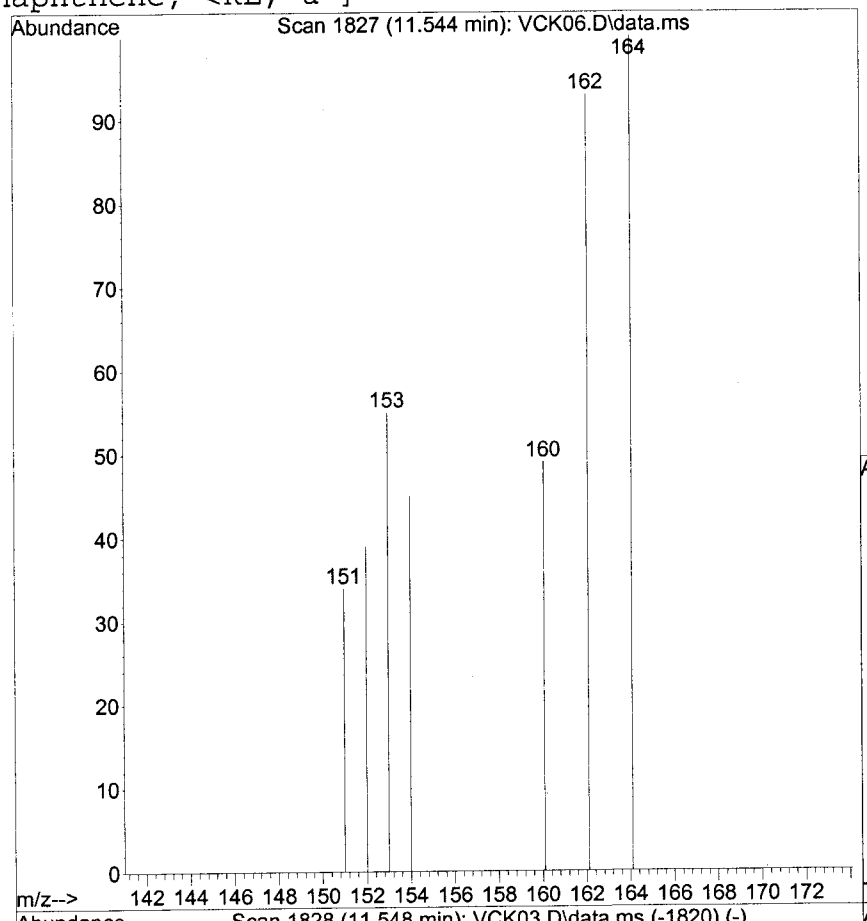
Ref





[Acenaphthene; <RL; u]

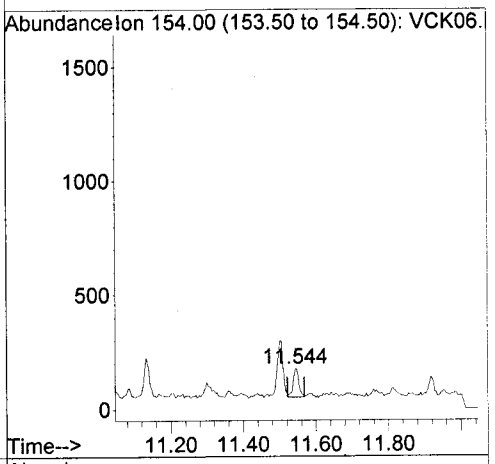
Raw



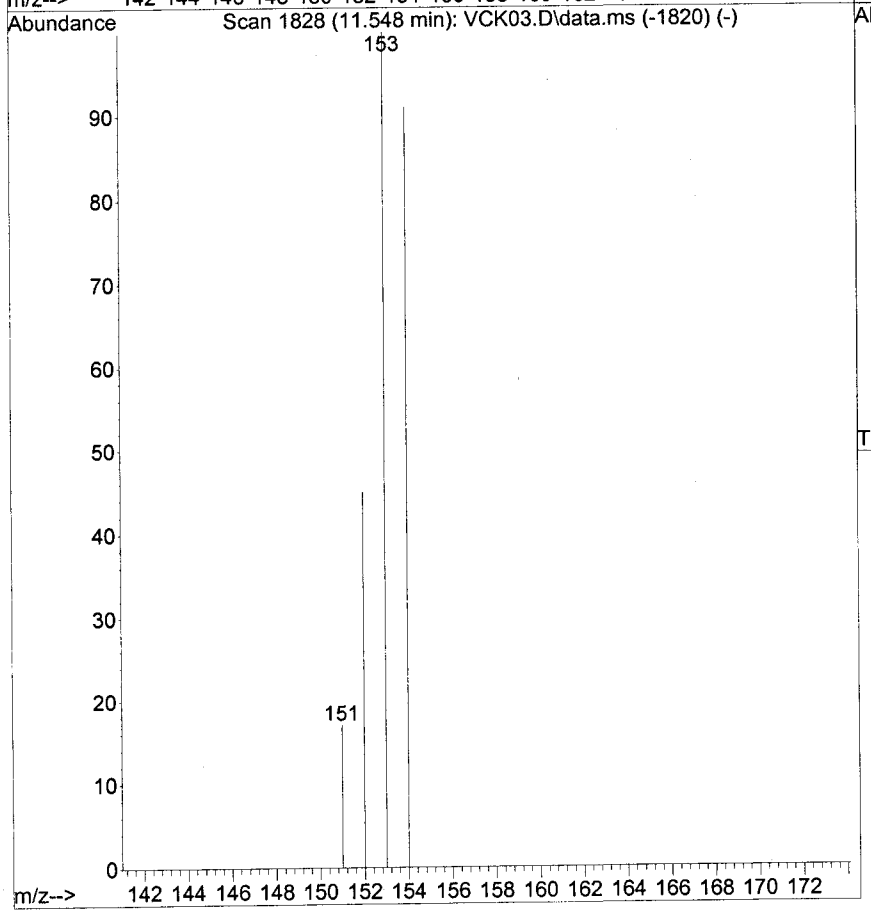
#11
Acenaphthene
Concen: 0.0018 ug/mL
RT: 11.544 min Scan# 1827
Delta R.T. -0.004 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

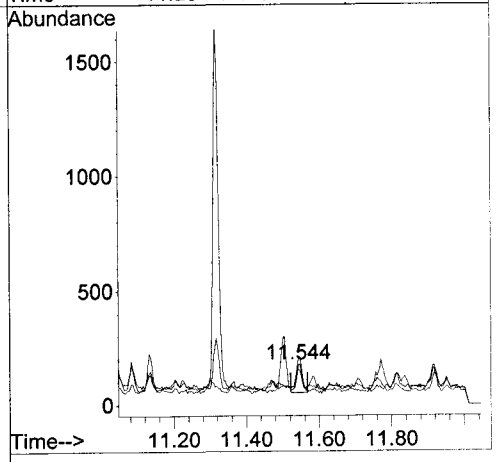
Tgt Ion:154 Resp: 137

Ion	Ratio	Lower	Upper
154	100		
152	86.4	35.4	75.4#
153	120.9	96.8	136.8



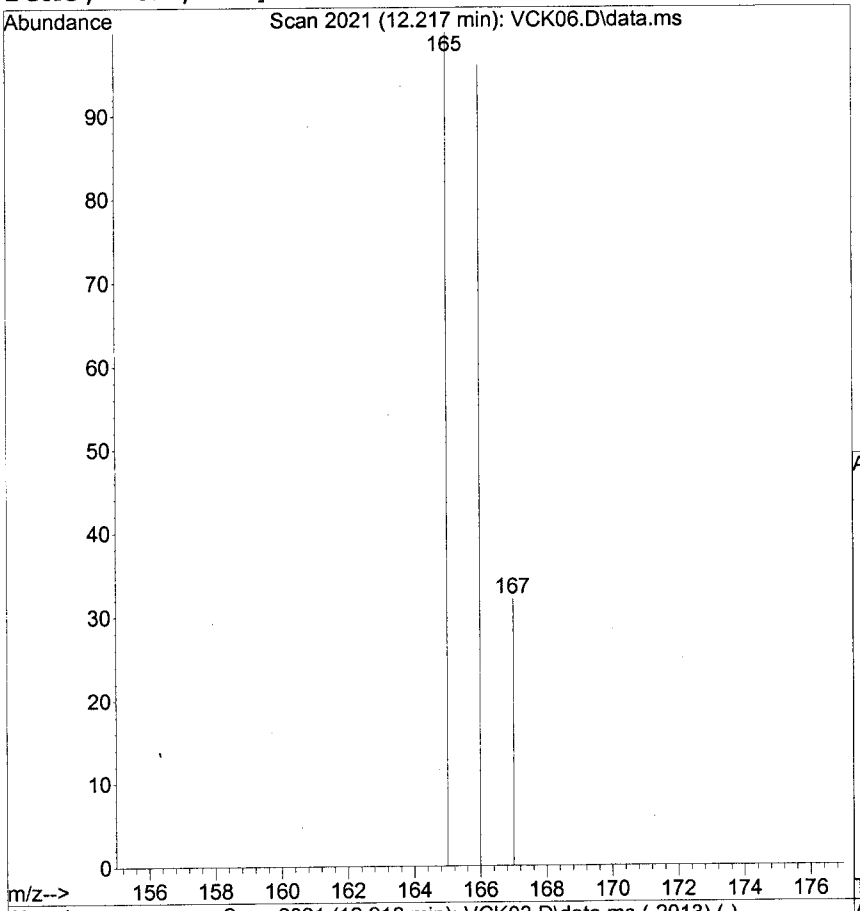
Ref





[Fluorene; <RL; u]

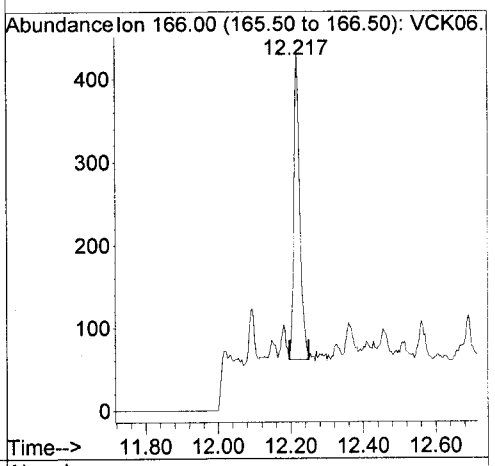
Raw



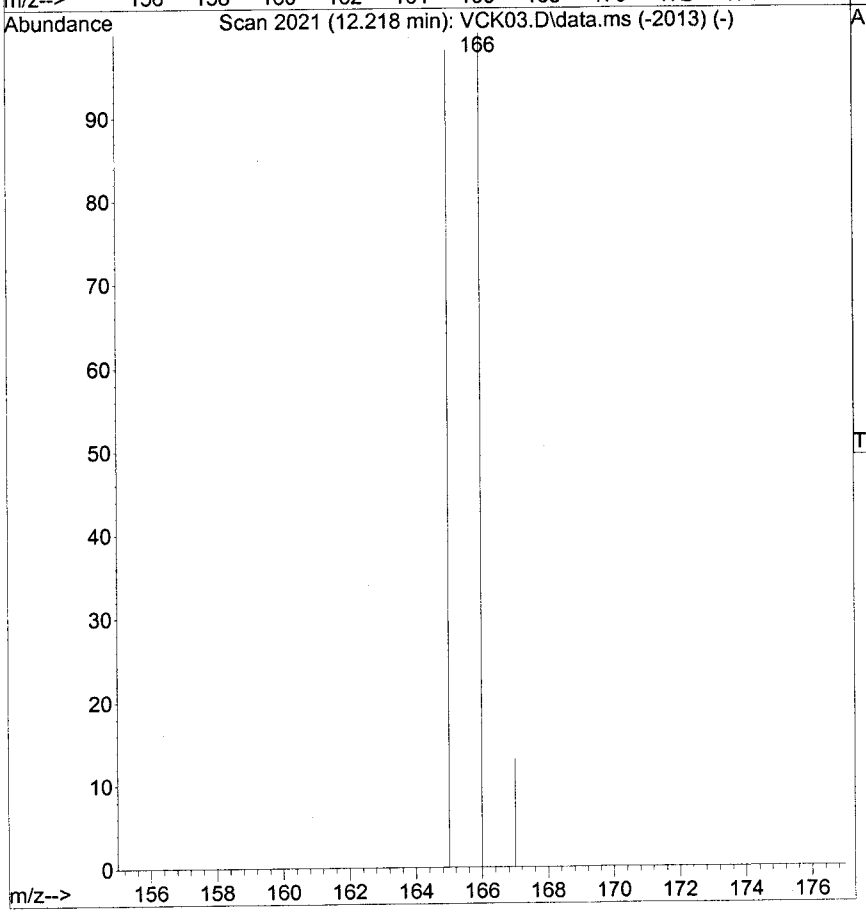
#12
Fluorene
Concen: 0.0043 ug/mL
RT: 12.217 min Scan# 2021
Delta R.T. -0.000 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

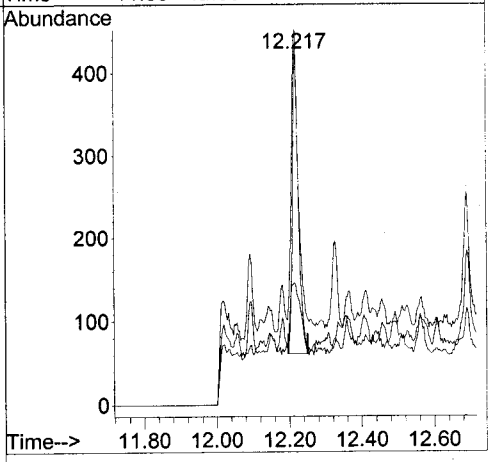
Tgt Ion:166 Resp: 413

Ion	Ratio	Lower	Upper
166	100		
165	104.6	74.9	114.9
167	33.3	0.0	33.9



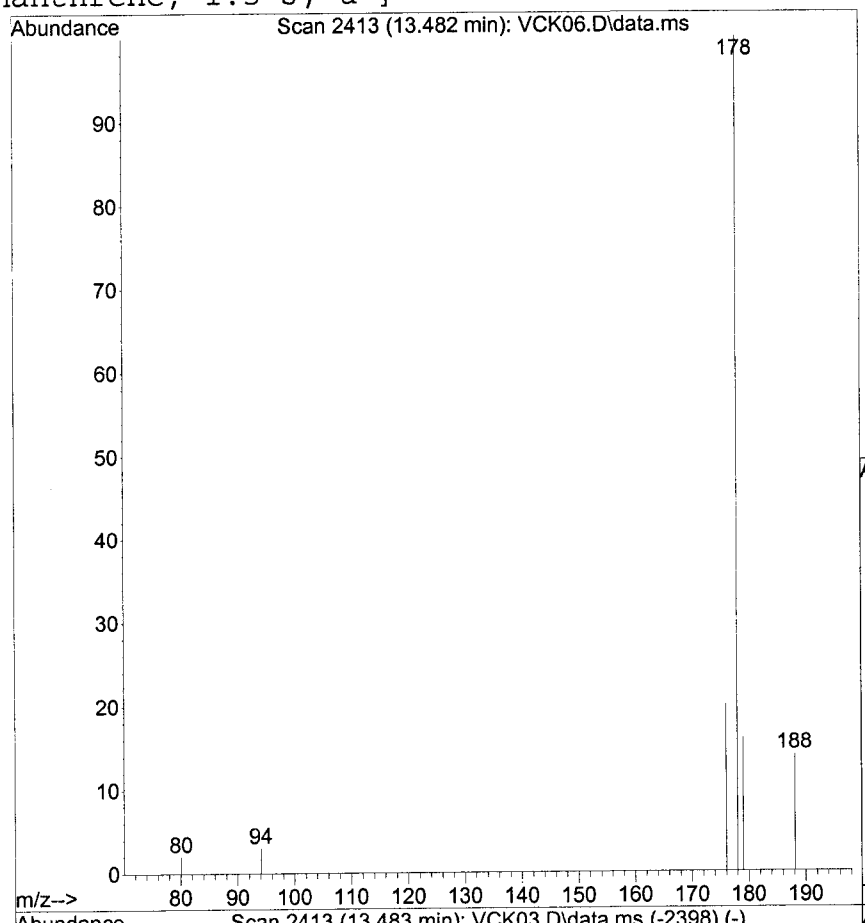
Ref





[Phenanthrene; 1.5 J; u]

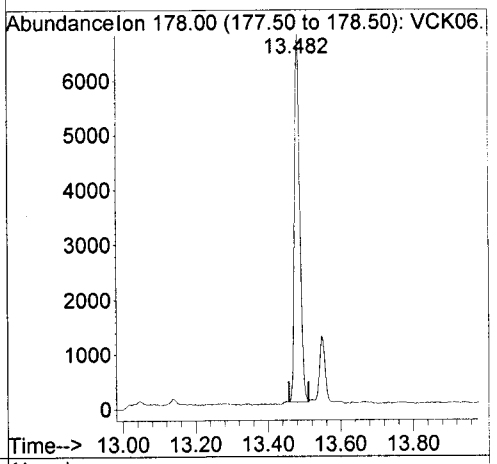
Raw



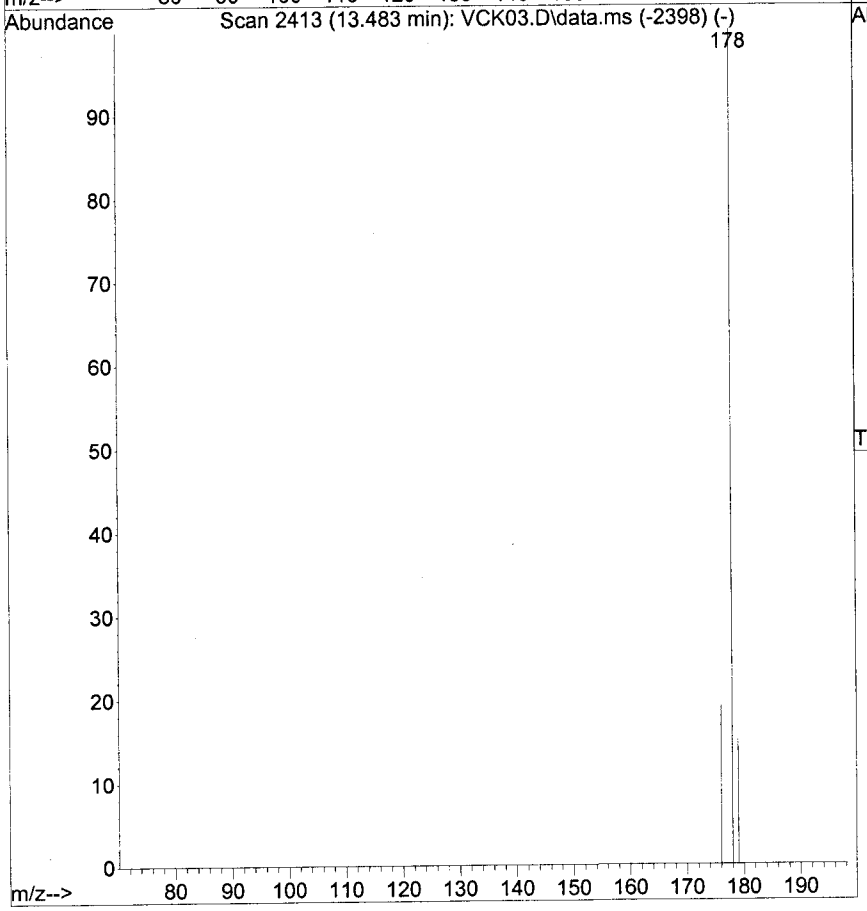
#14
Phenanthrene
Concen: 0.0430 ug/mL
RT: 13.482 min Scan# 2413
Delta R.T. -0.001 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

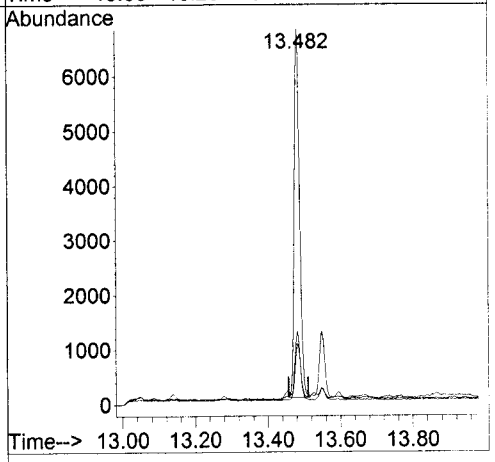
Tgt Ion:178 Resp: 6862

Ion	Ratio	Lower	Upper
178	100		
179	16.1	0.0	35.0
176	19.5	0.0	38.9



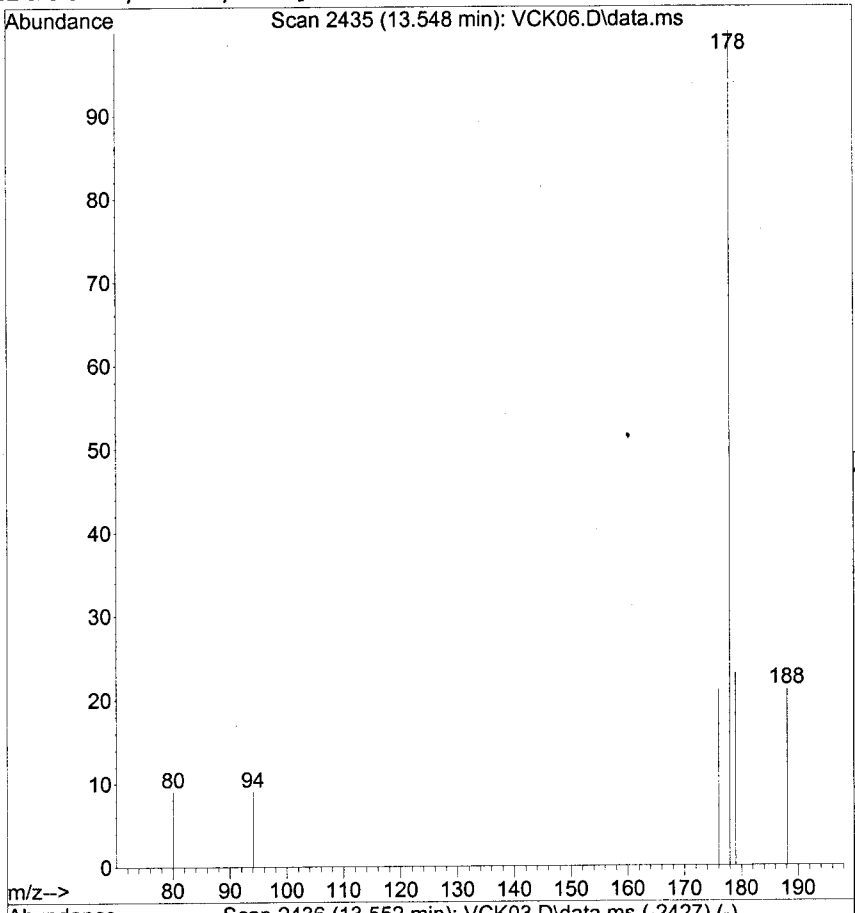
Ref





[Anthracene; <RL; u]

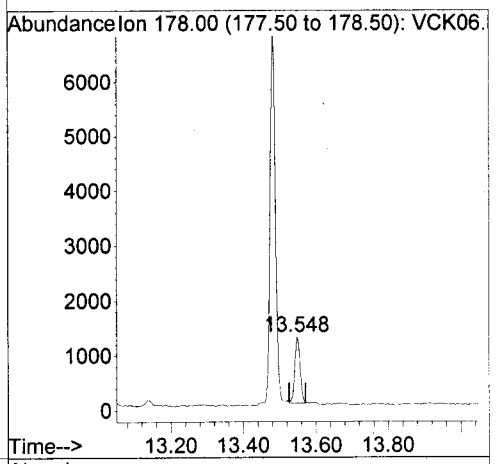
Raw



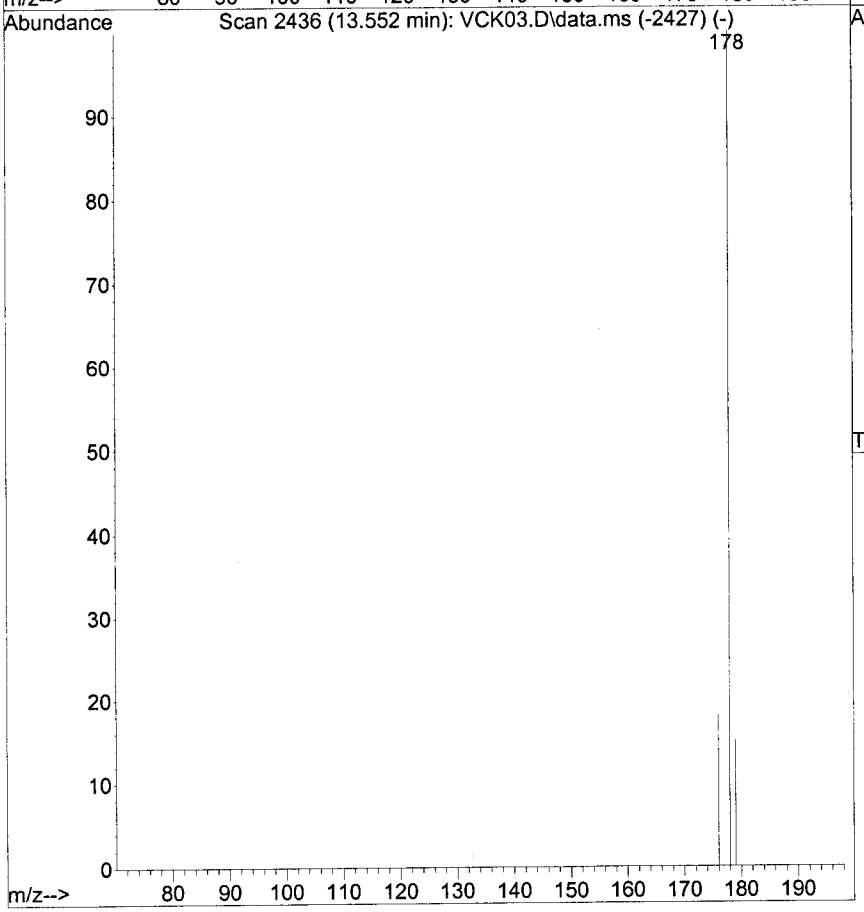
#15
Anthracene
Concen: 0.0083 ug/mL
RT: 13.548 min Scan# 2435
Delta R.T. -0.004 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

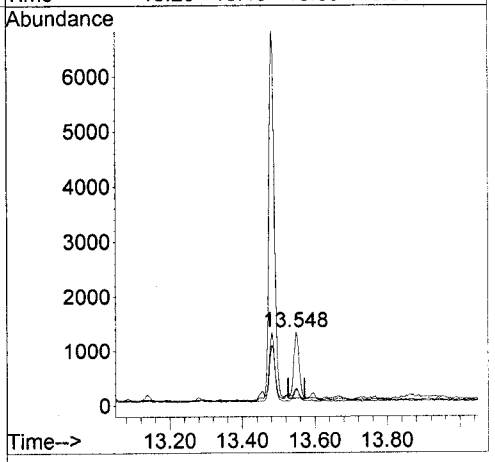
Tgt Ion:178 Resp: 1220

Ion	Ratio	Lower	Upper
178	100		
179	22.8	0.0	34.4
176	20.7	0.0	39.5



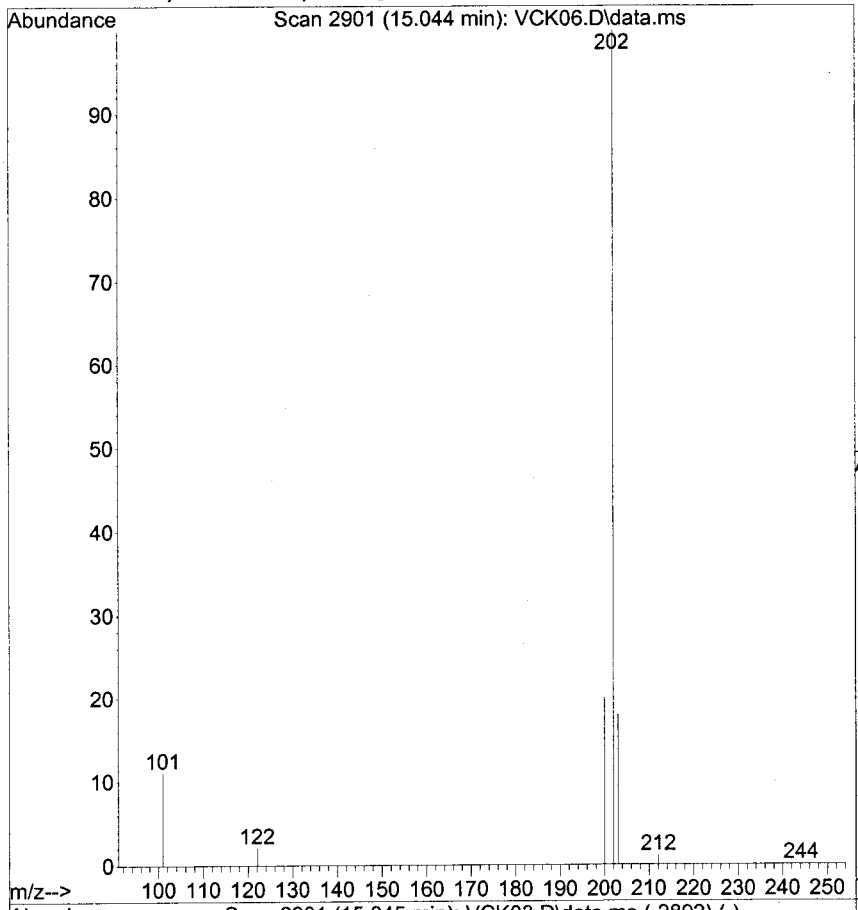
Ref





[Fluoranthene; 2.8 J; u]

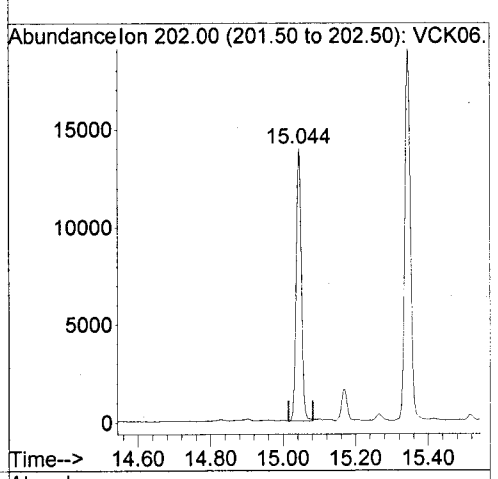
Raw



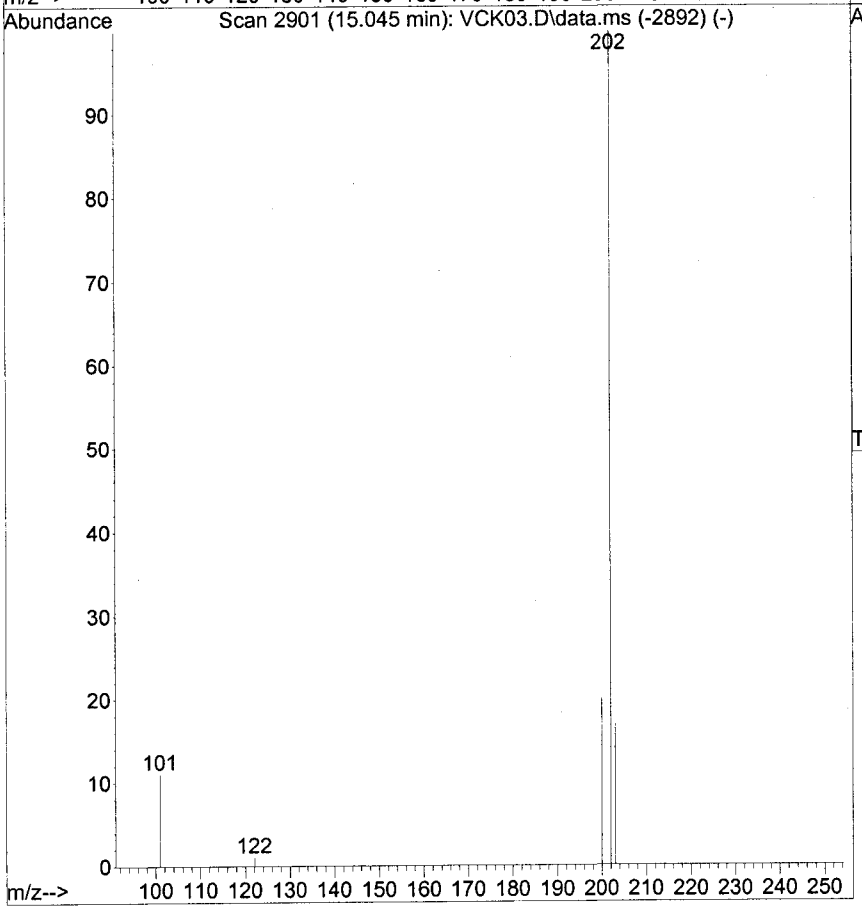
#16
Fluoranthene
Concen: 0.0838 ug/mL
RT: 15.044 min Scan# 2901
Delta R.T. -0.001 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

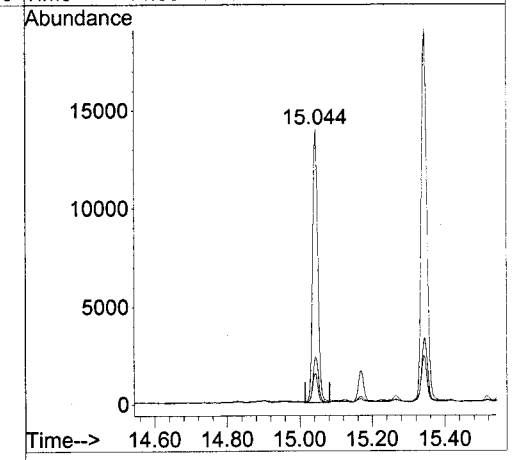
Tgt Ion:202 Resp: 13974

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	21.1
203	17.5	0.0	37.0



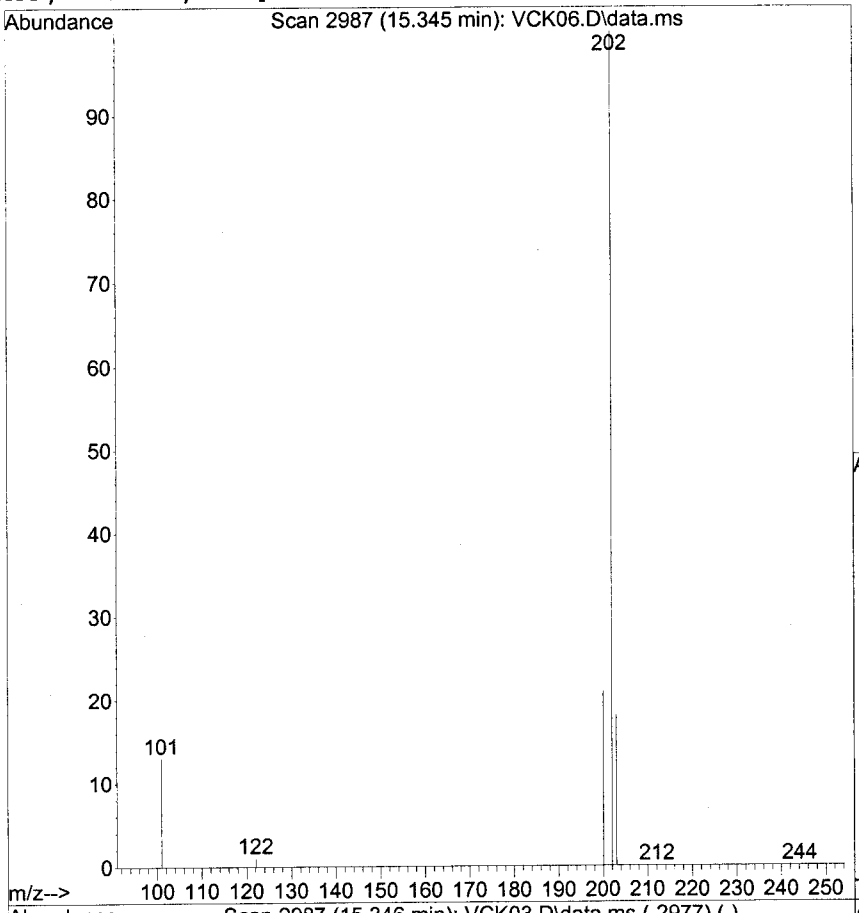
Ref





[Pyrene; 4.1 J; u]

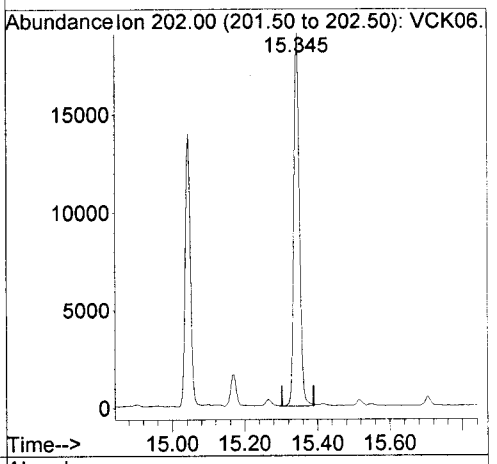
Raw



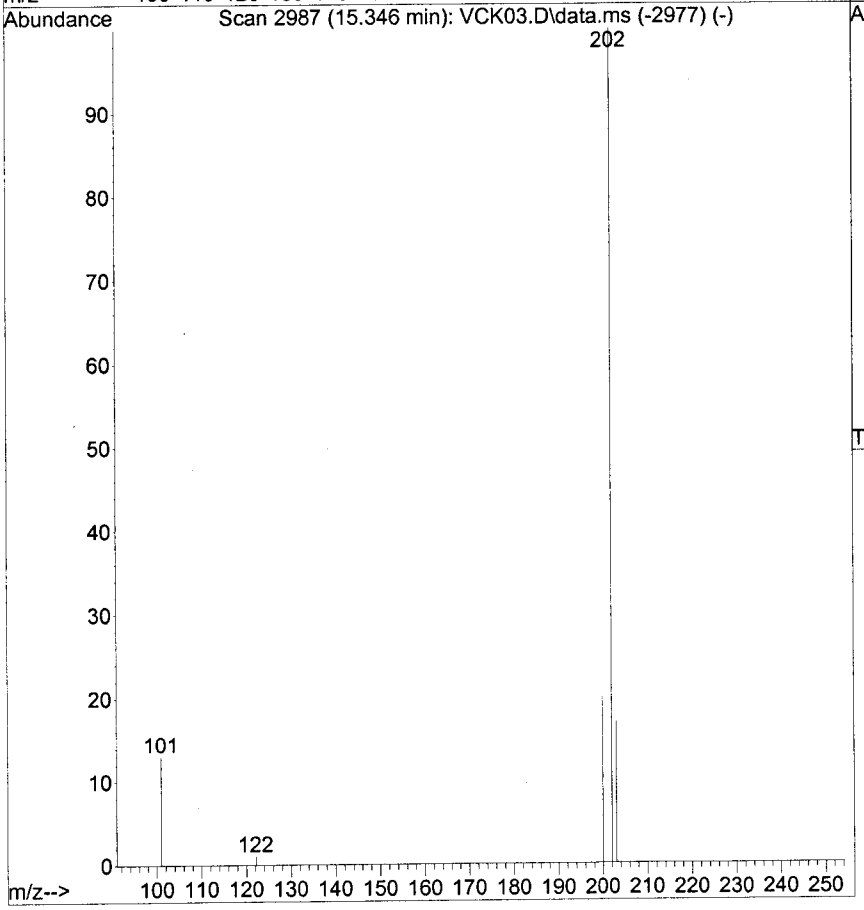
#18
Pyrene
Concen: 0.1223 ug/mL
RT: 15.345 min Scan# 2987
Delta R.T. -0.001 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

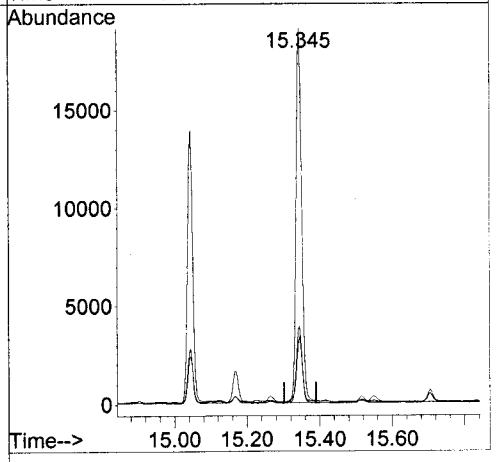
Tgt Ion:202 Resp: 20297

Ion	Ratio	Lower	Upper
202	100		
200	20.8	1.1	41.1
203	18.0	0.0	37.7



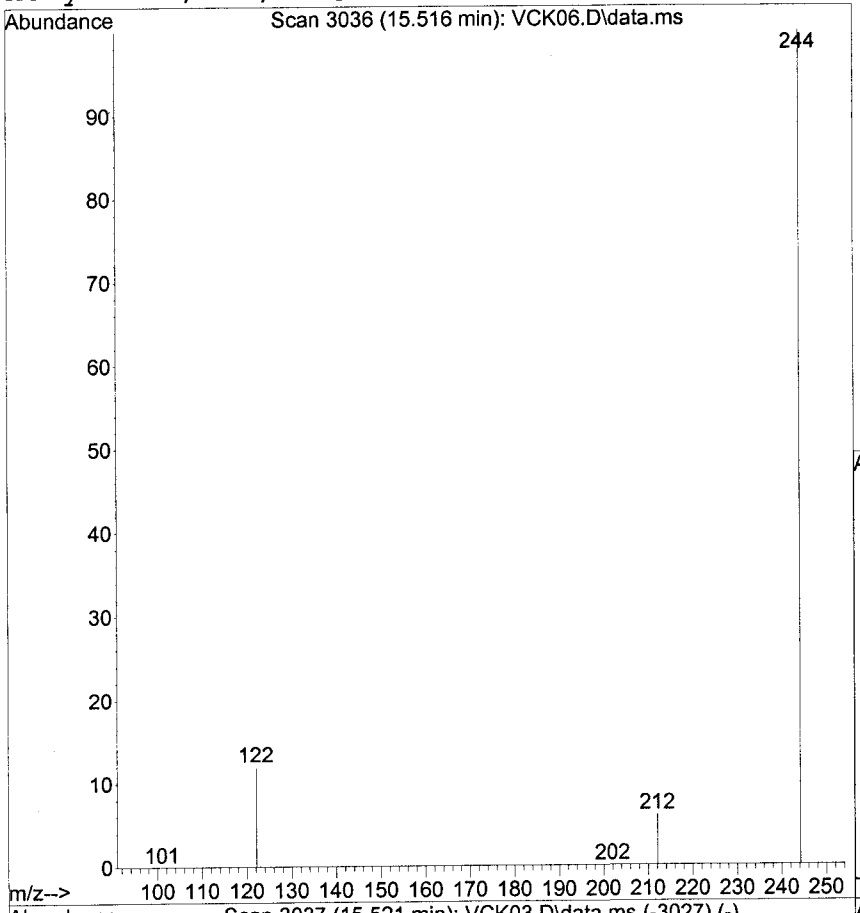
Ref





[Terphenyl-d14; 33; u]

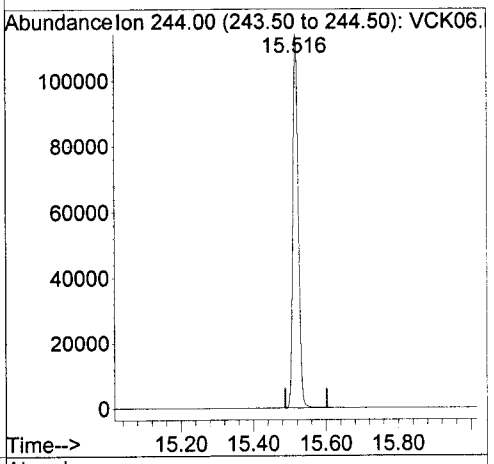
Raw



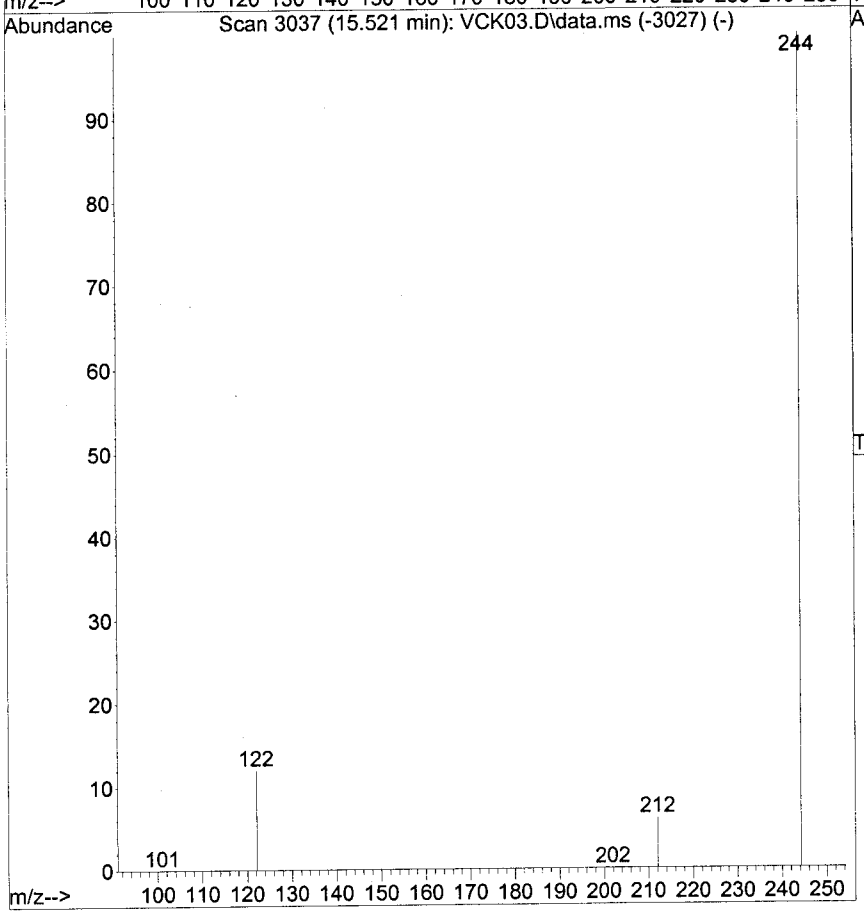
#19
Terphenyl-d14
Concen: 0.9783 ug/mL
RT: 15.516 min Scan# 3036
Delta R.T. -0.004 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

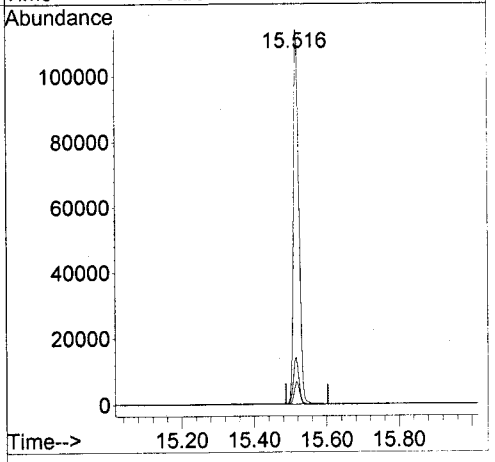
Tgt Ion:244 Resp: 117461

Ion	Ratio	Lower	Upper
244	100		
122	12.4	0.0	25.0
212	6.0	0.0	31.4



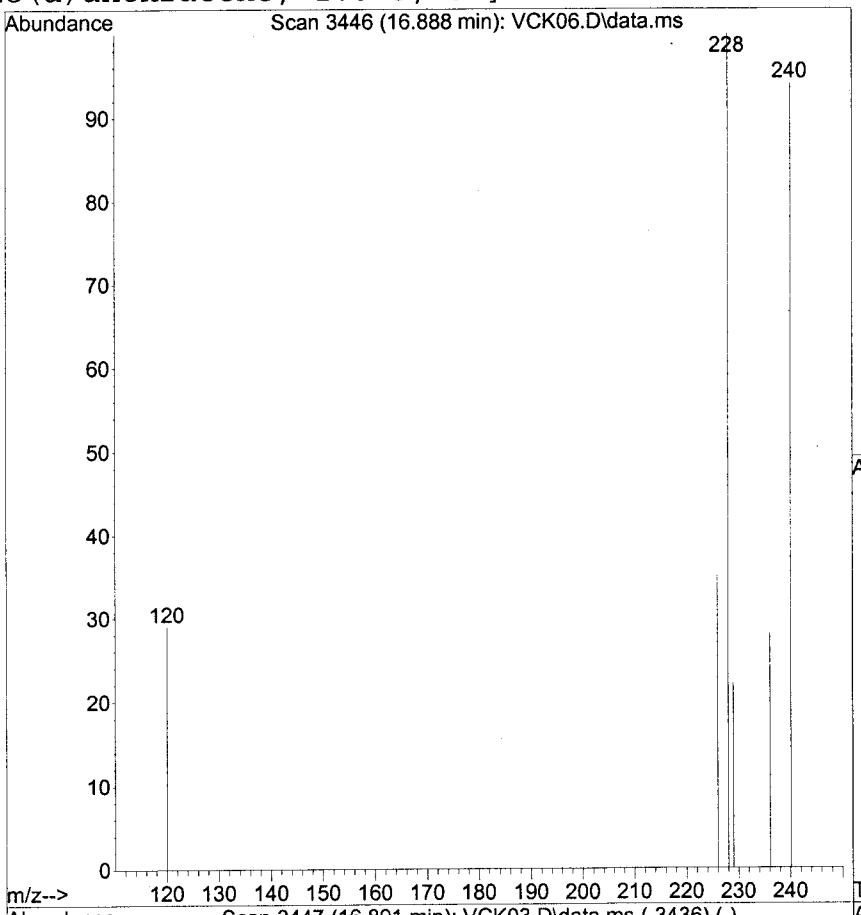
Ref





[Benzo(a)anthracene; 1.8 J; u]

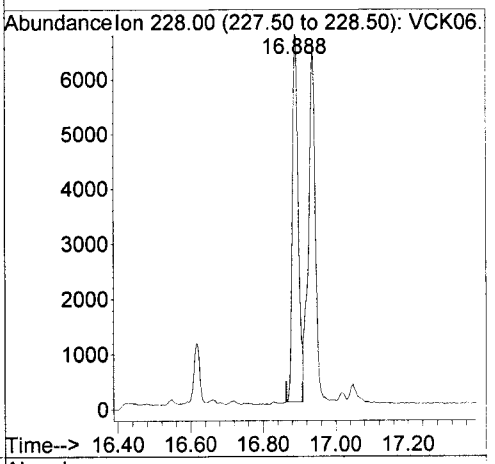
Raw



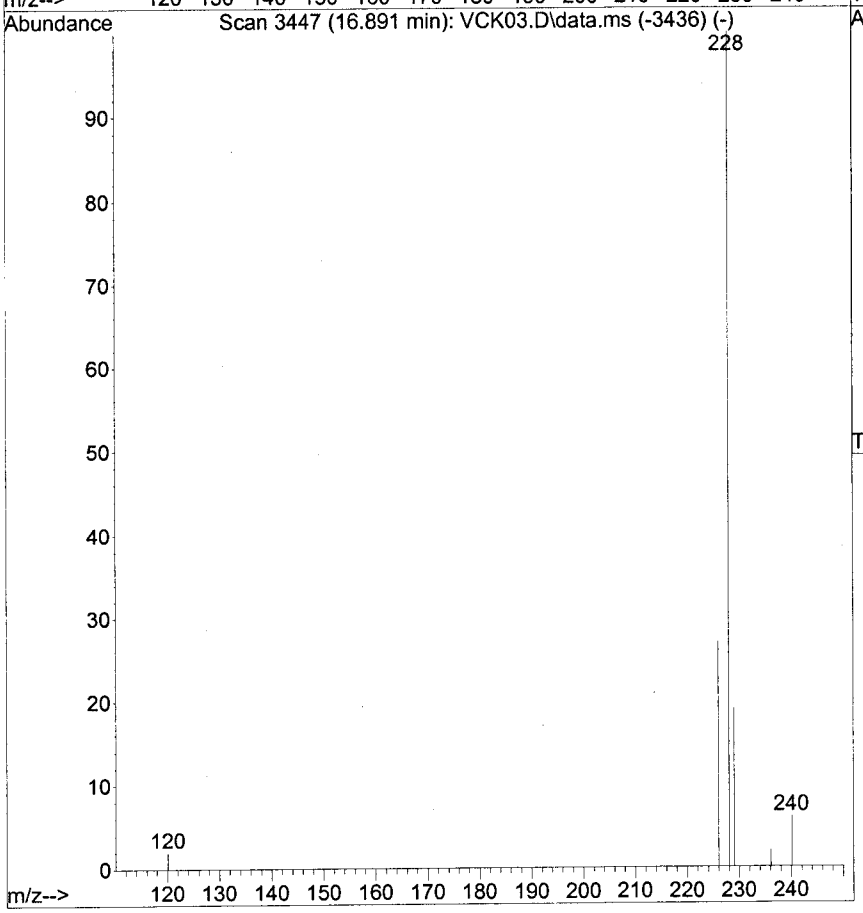
#20
Benzo(a)anthracene
Concen: 0.0536 ug/mL
RT: 16.888 min Scan# 3446
Delta R.T. -0.003 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

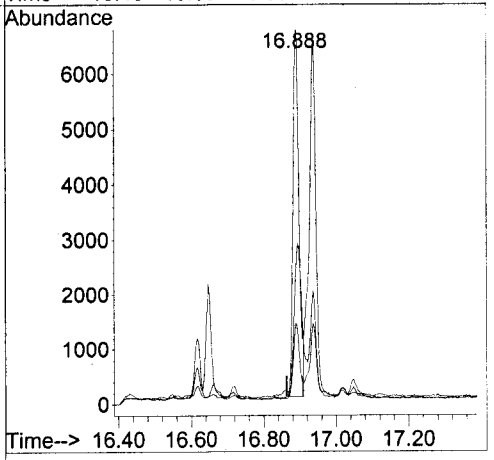
Tgt Ion:228 Resp: 7582

Ion	Ratio	Lower	Upper
228	100		
229	21.6	0.1	40.1
226	35.2	9.3	49.3



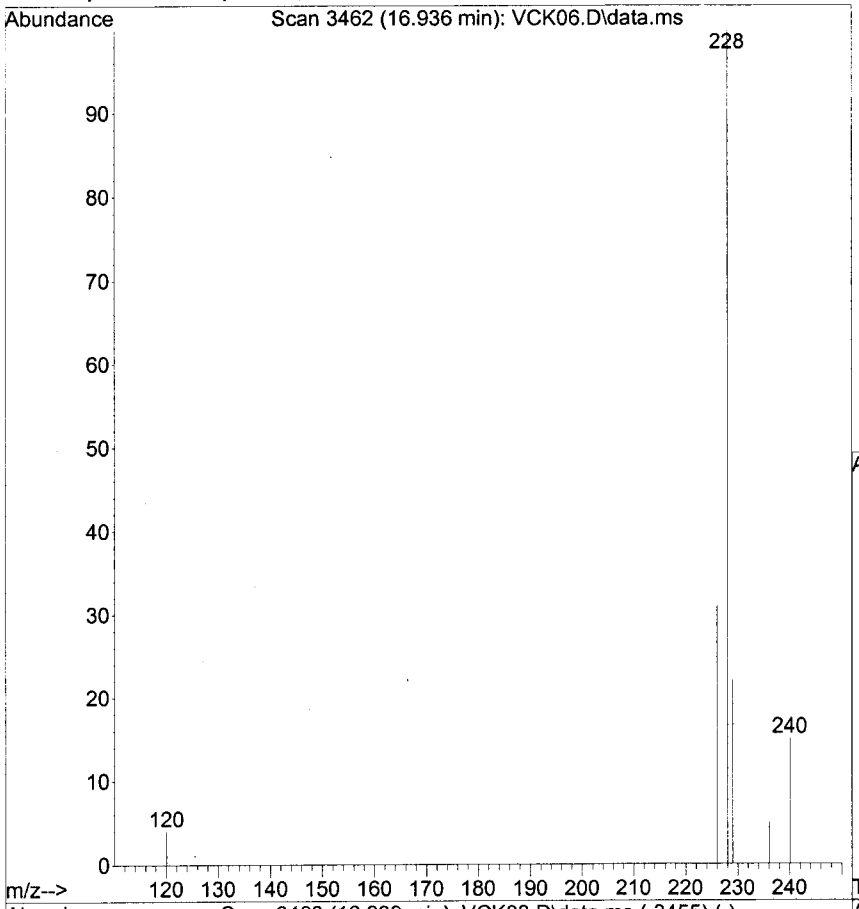
Ref





[Chrysene; 2.0 J; u]

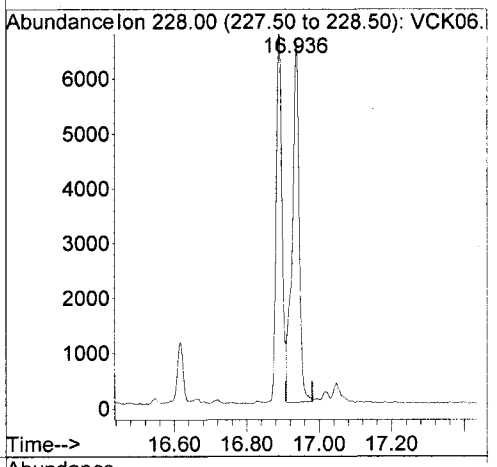
Raw



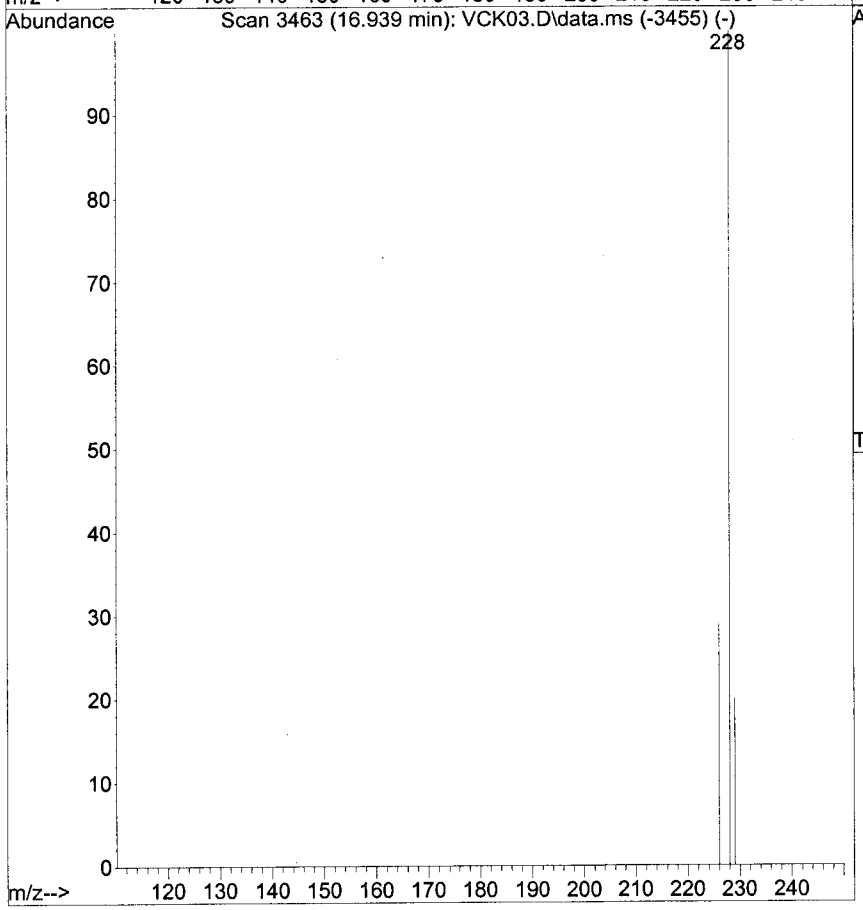
#21
Chrysene
Concen: 0.0586 ug/mL
RT: 16.936 min Scan# 3462
Delta R.T. -0.003 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

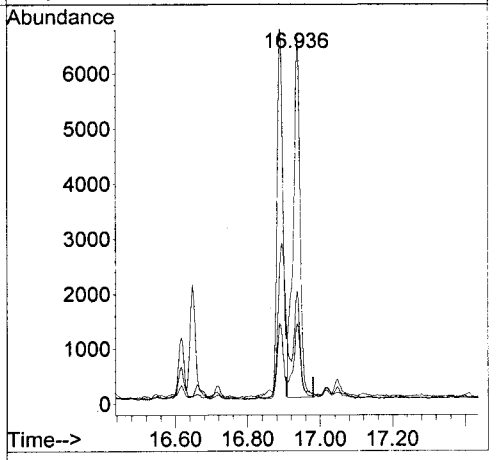
Tgt Ion:228 Resp: 8650

Ion	Ratio	Lower	Upper
228	100		
226	31.0	13.4	53.4
229	22.1	0.8	40.8



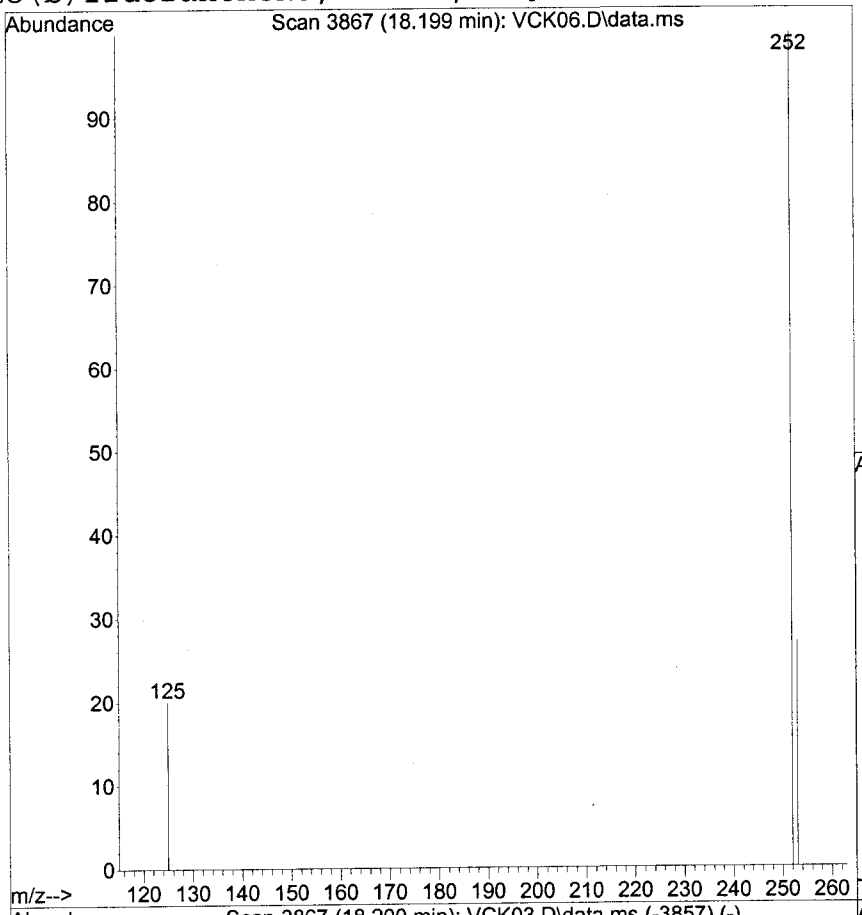
Ref





[Benzo(b)fluoranthene; 2.0 J; u]

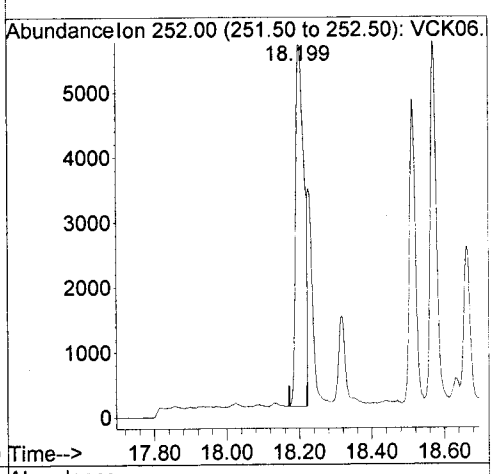
Raw



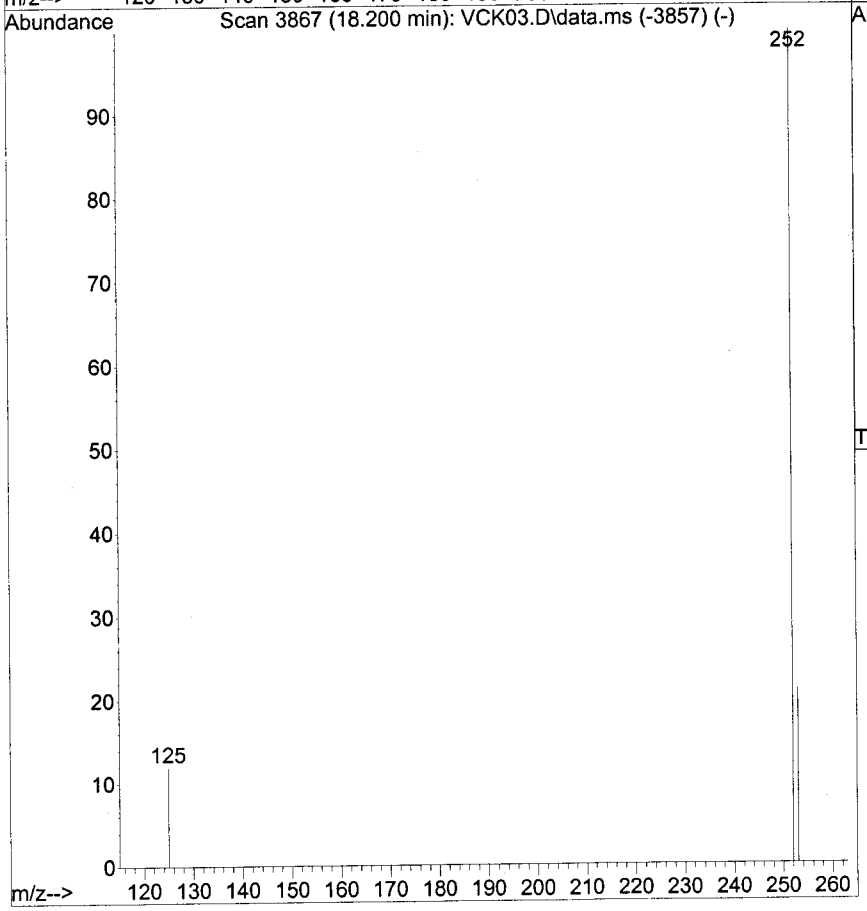
#23
Benzo(b)fluoranthene
Concen: 0.0586 ug/mL
RT: 18.199 min Scan# 3867
Delta R.T. -0.001 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

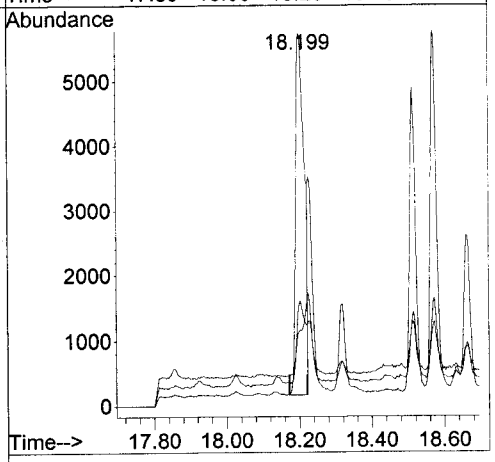
Tgt Ion:252 Resp: 9329

Ion	Ratio	Lower	Upper
252	100		
253	26.7	1.0	41.0
125	19.7	0.0	20.9



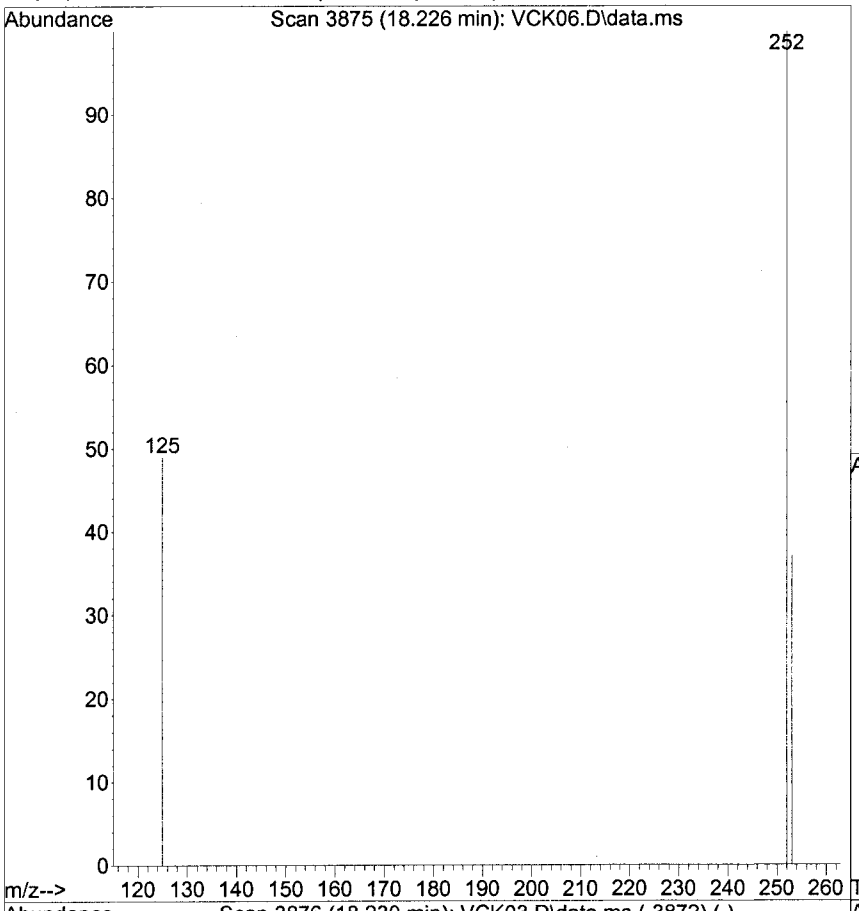
Ref





[Benzo(k)fluoranthene; <RL; MI; u]

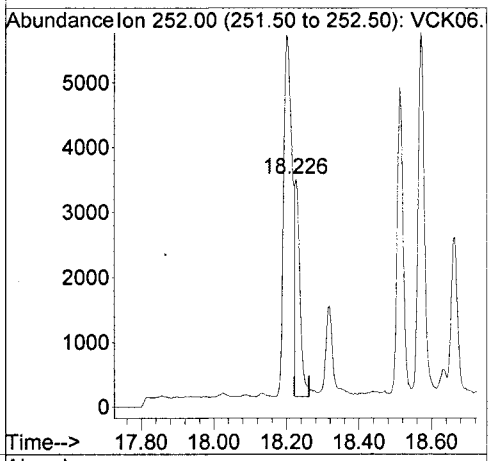
Raw



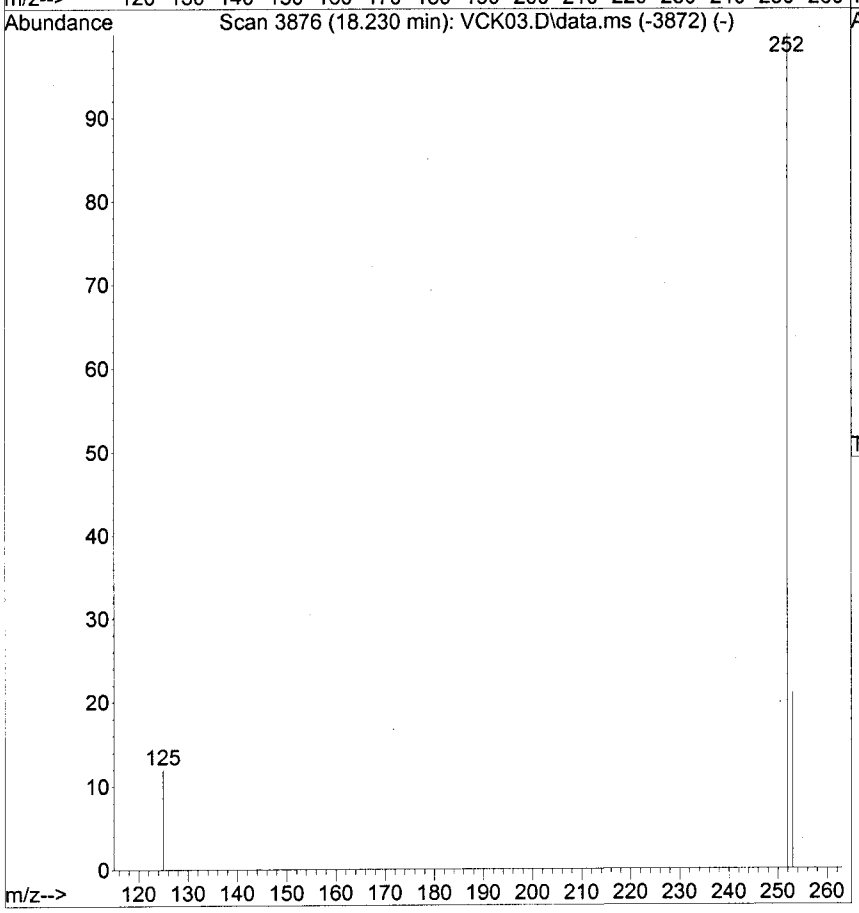
#24
Benzo(k)fluoranthene
Concen: 0.0183 ug/mL m
RT: 18.226 min Scan# 3875
Delta R.T. -0.004 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

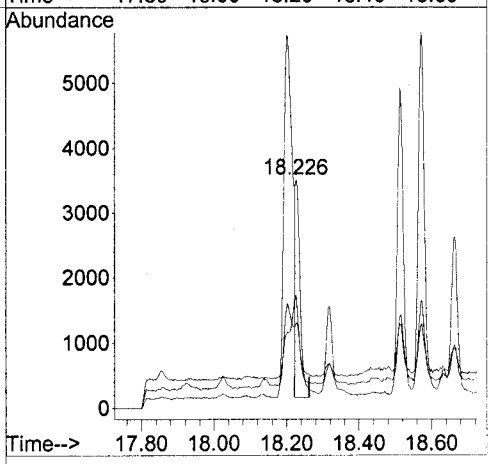
Tgt Ion:252 Resp: 2921

Ion	Ratio	Lower	Upper
252	100		
253	36.9	1.1	41.1
125	49.0	0.0	21.1#



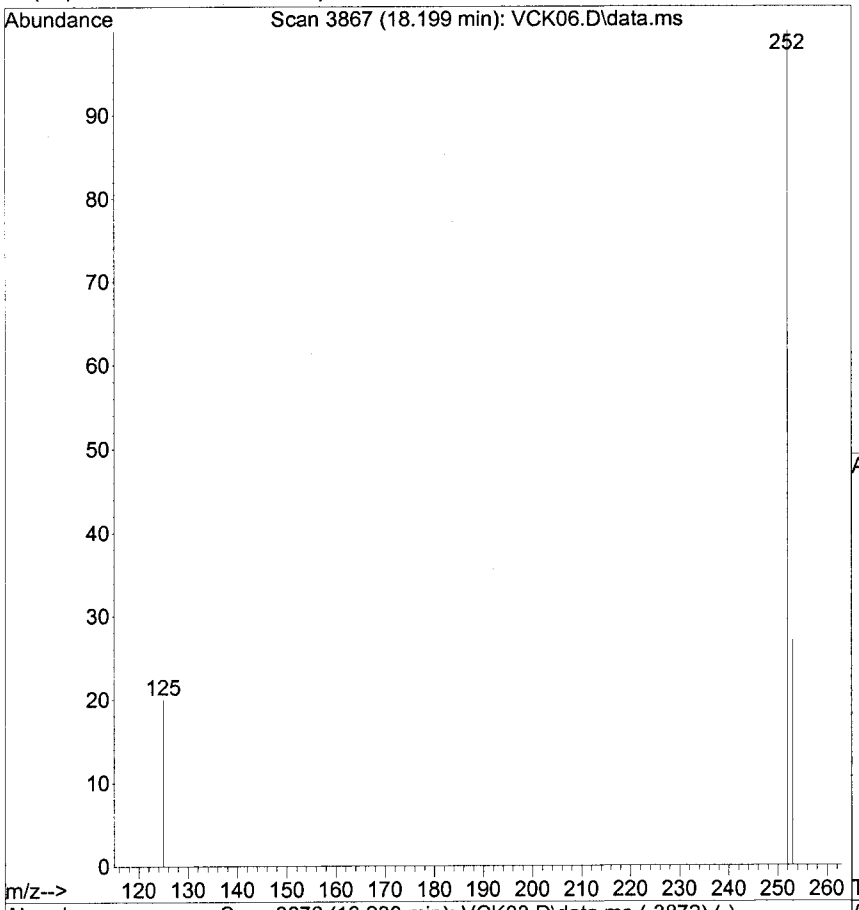
Ref





[Benzo(k)fluoranthene; before version]

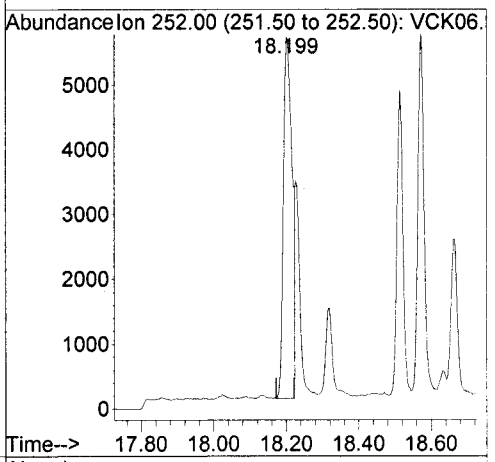
Raw



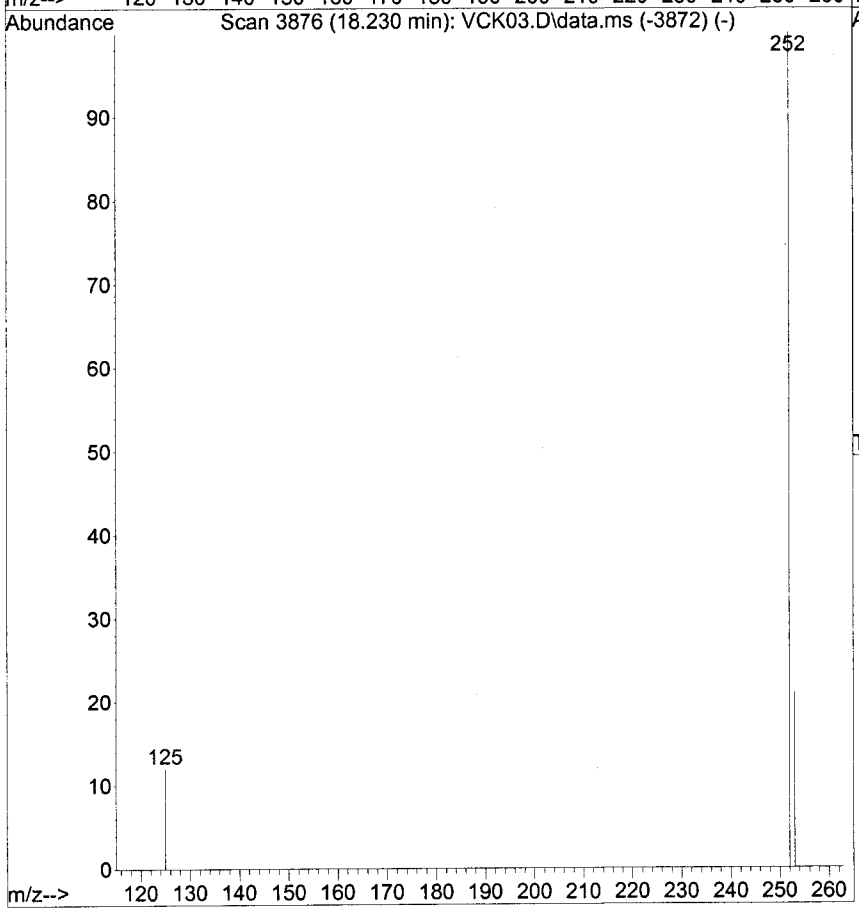
#24
Benzo(k)fluoranthene
Concen: 0.0585 ug/mL
RT: 18.199 min Scan# 3867
Delta R.T. -0.030 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

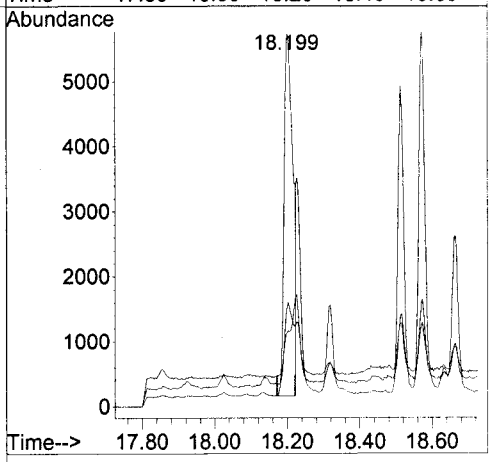
Tgt Ion:252 Resp: 9329

Ion	Ratio	Lower	Upper
252	100		
253	26.7	1.1	41.1
125	19.7	0.0	21.1



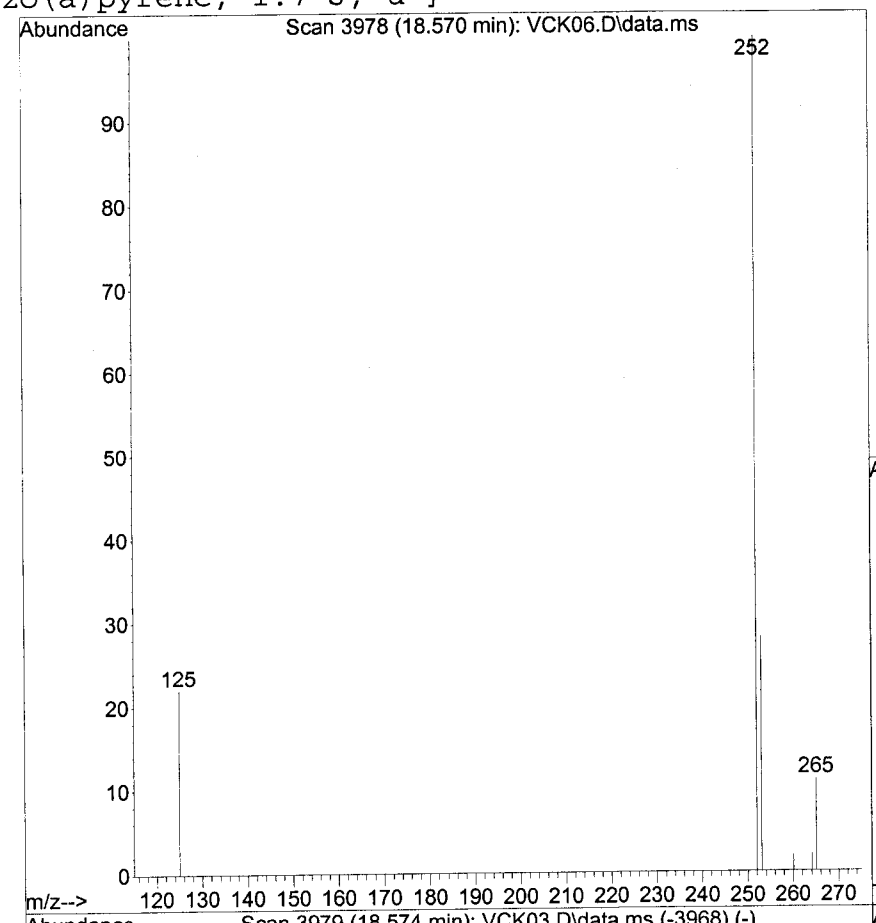
Ref





[Benzo(a)pyrene; 1.7 J; u]

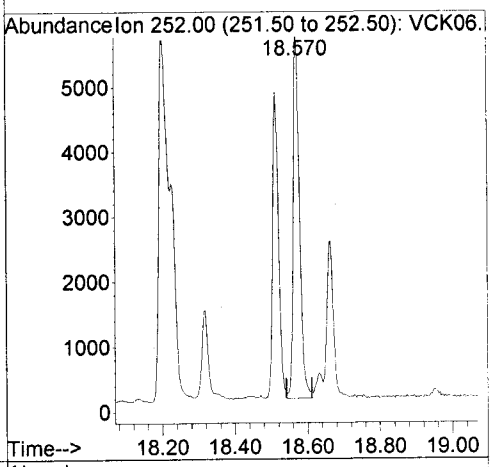
Raw



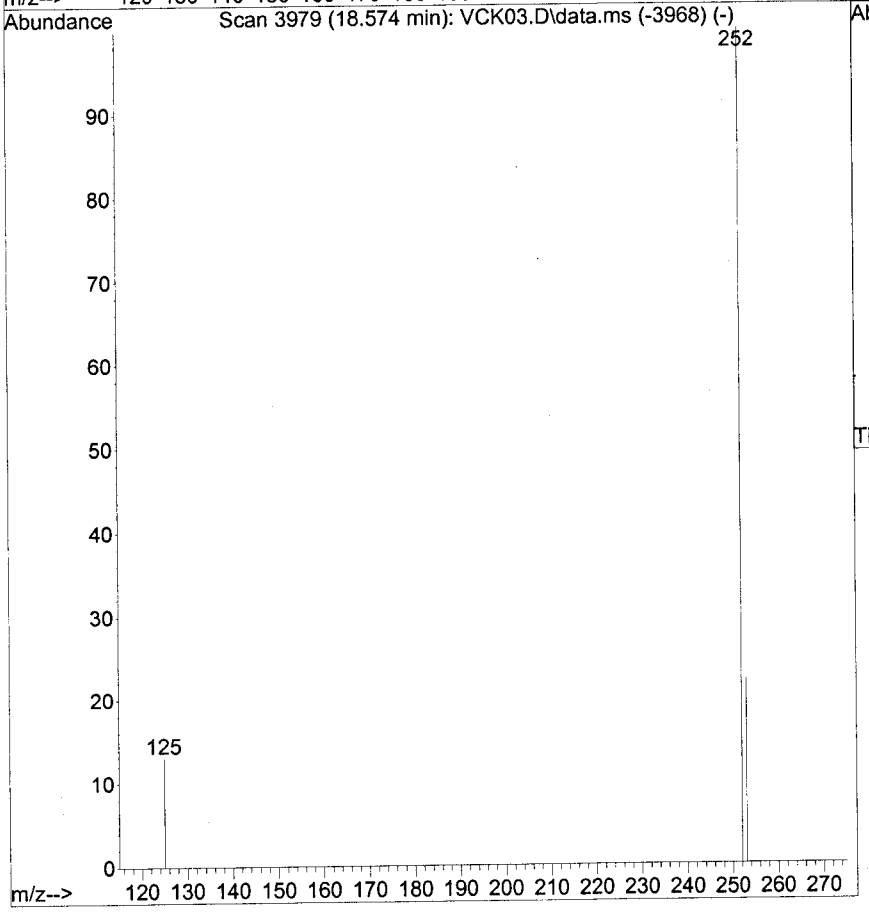
#25
Benzo(a)pyrene
Concen: 0.0492 ug/mL
RT: 18.570 min Scan# 3978
Delta R.T. -0.004 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

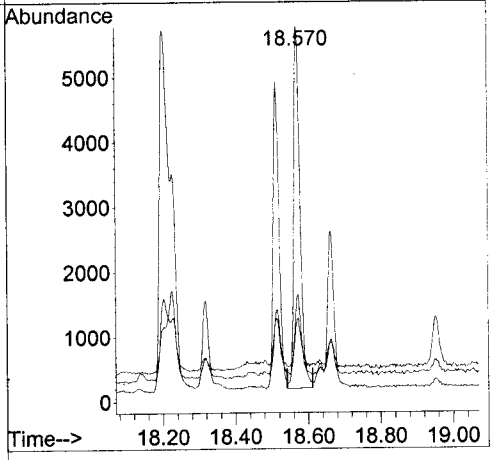
Tgt Ion:252 Resp: 6718

Ion	Ratio	Lower	Upper
252	100		
253	28.0	3.4	43.4
125	21.9	0.0	20.9#



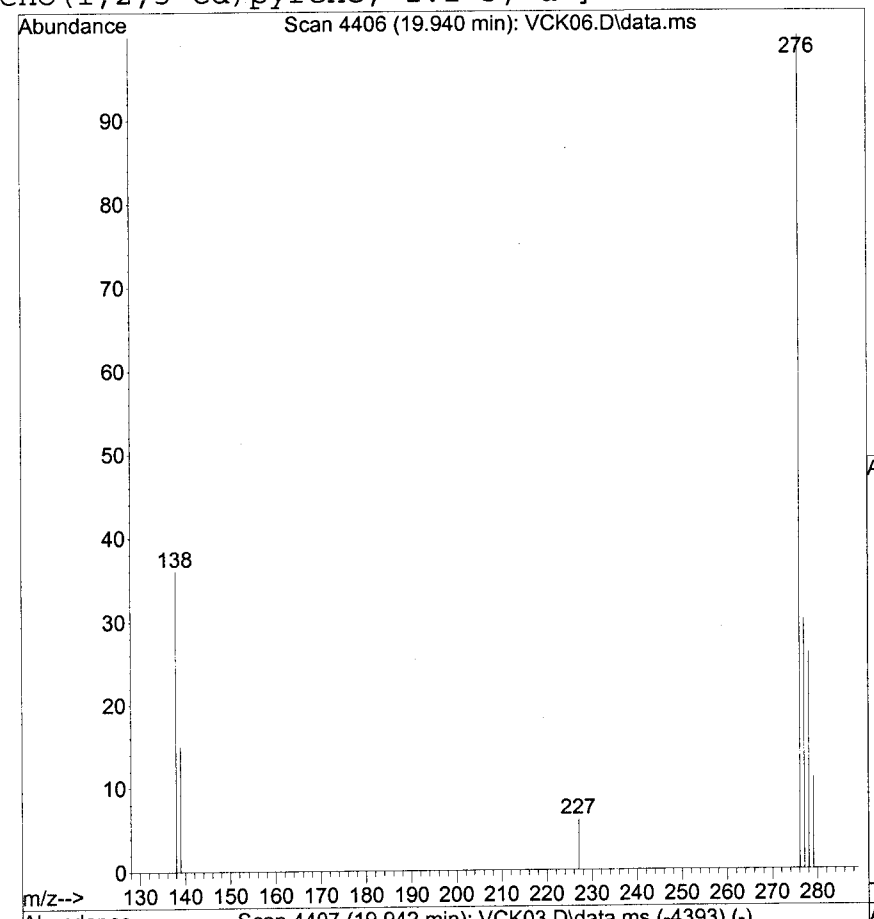
Ref





[Indeno(1,2,3-cd)pyrene; 1.1 J; u]

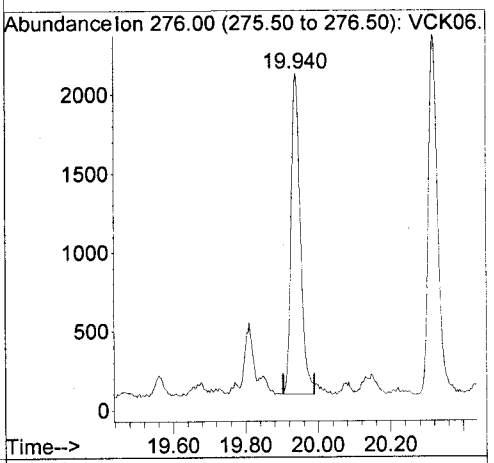
Raw



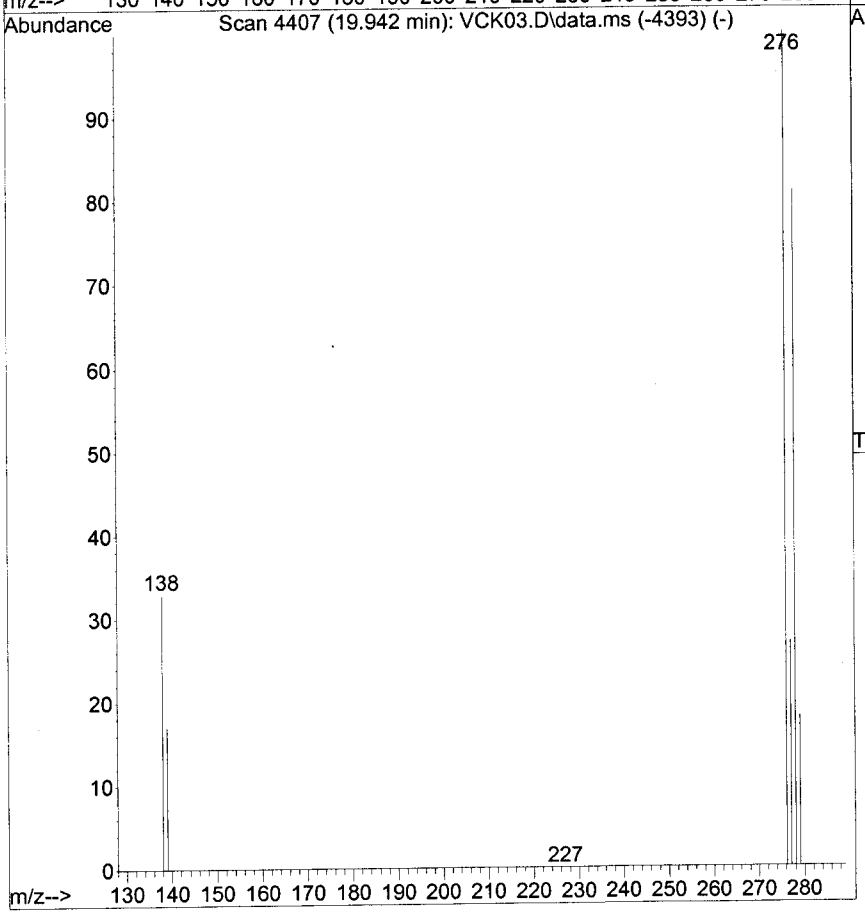
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0337 ug/mL
RT: 19.940 min Scan# 4406
Delta R.T. -0.002 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

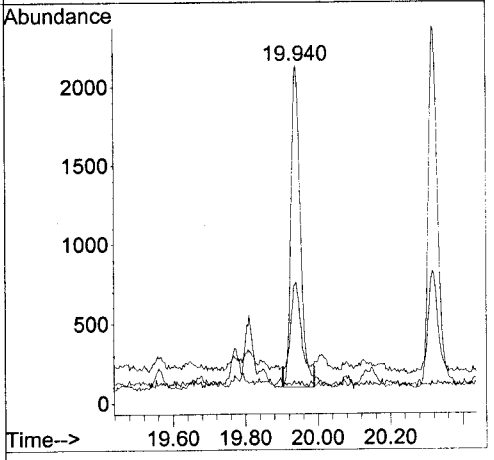
Tgt Ion:276 Resp: 3619

Ion	Ratio	Lower	Upper
276	100		
138	35.6	0.0	23.1#
227	5.8	0.0	21.0



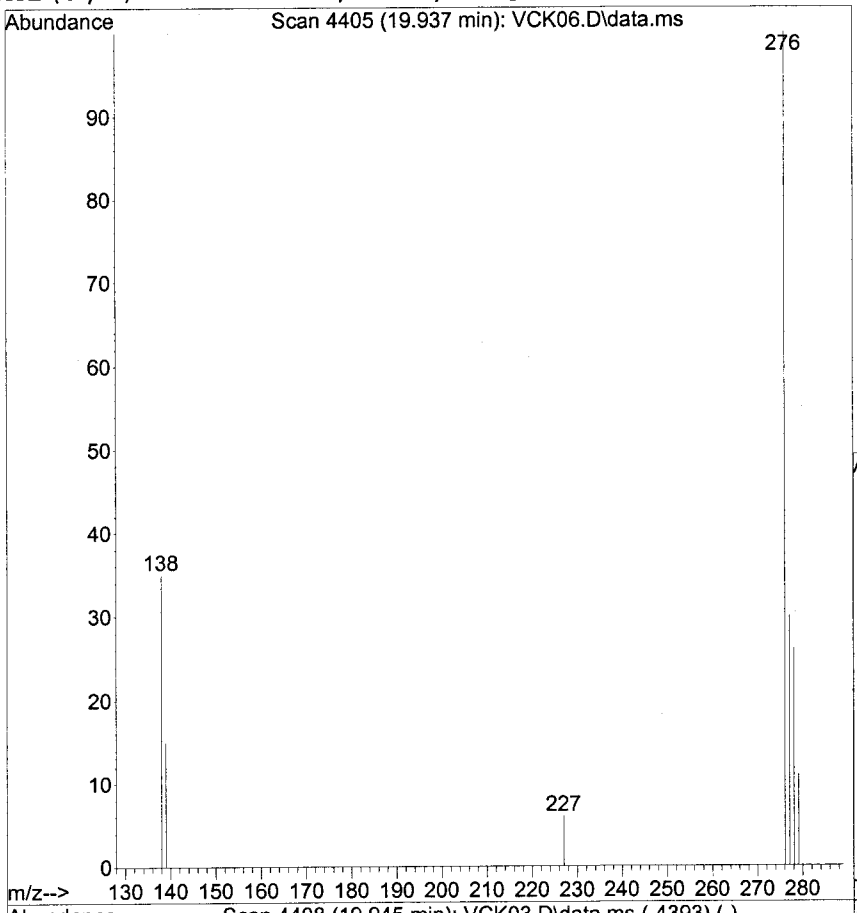
Ref





[Dibenz(a,h)anthracene; <RL; u]

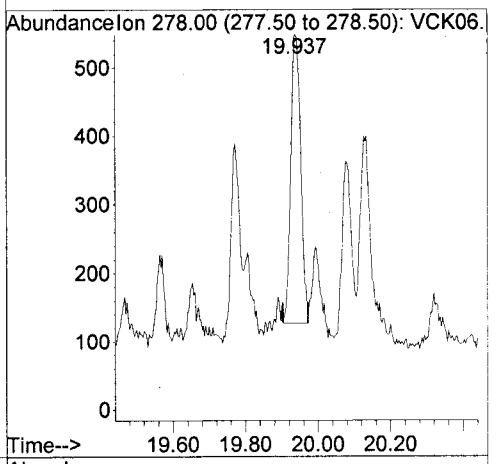
Raw



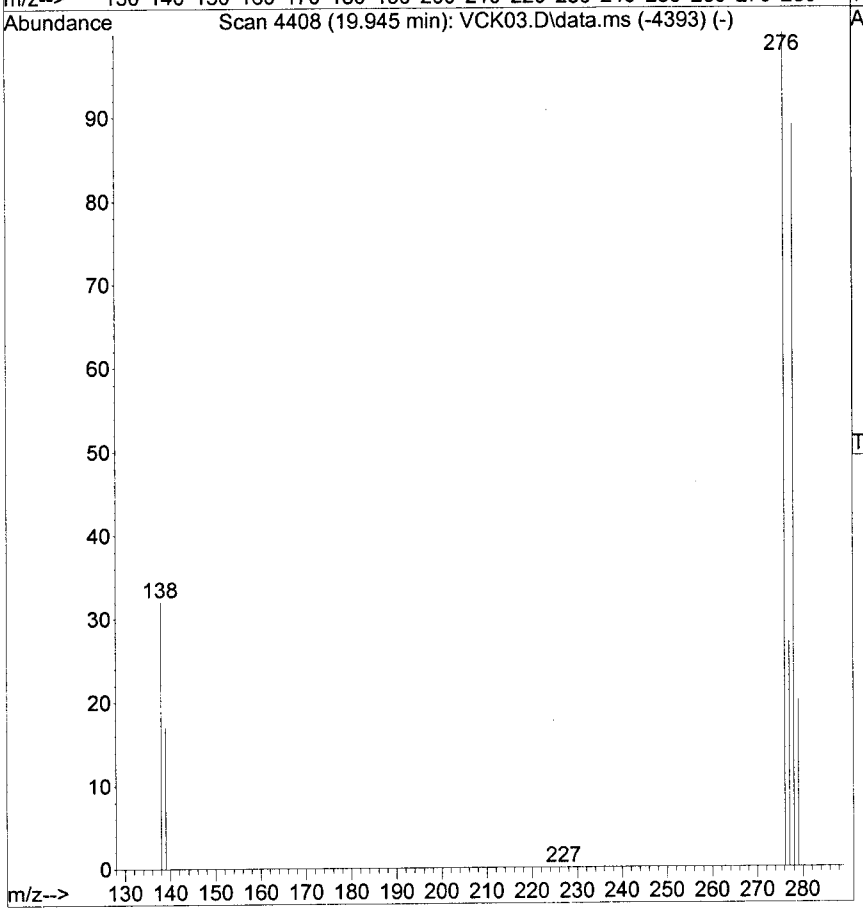
#27
Dibenz(a,h)anthracene
Concen: 0.0089 ug/mL
RT: 19.937 min Scan# 4405
Delta R.T. -0.008 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

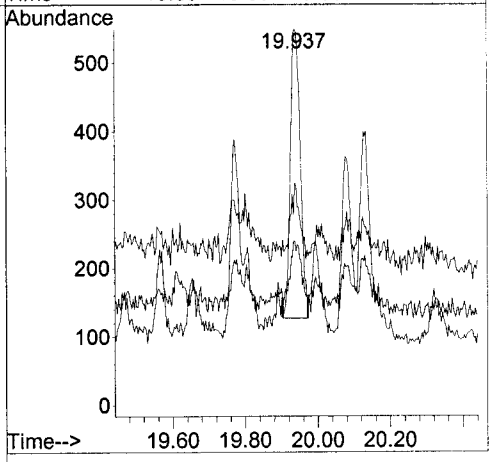
Tgt Ion:278 Resp: 805

Ion	Ratio	Lower	Upper
278	100		
139	59.2	0.0	22.2#
279	43.7	0.7	40.7#



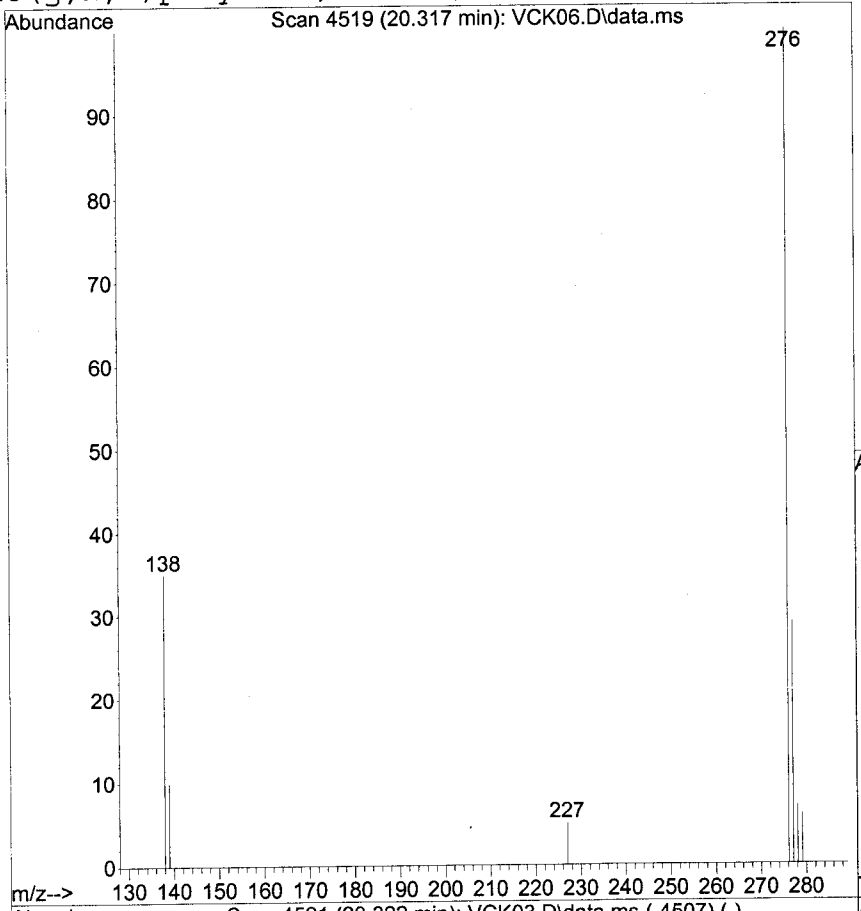
Ref





[Benzo(g,h,i)perylene; 1.5 J; u]

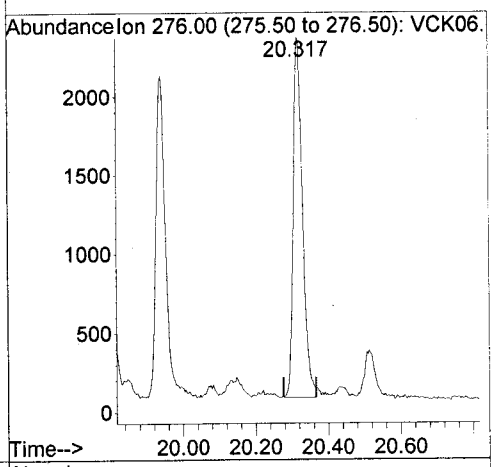
Raw



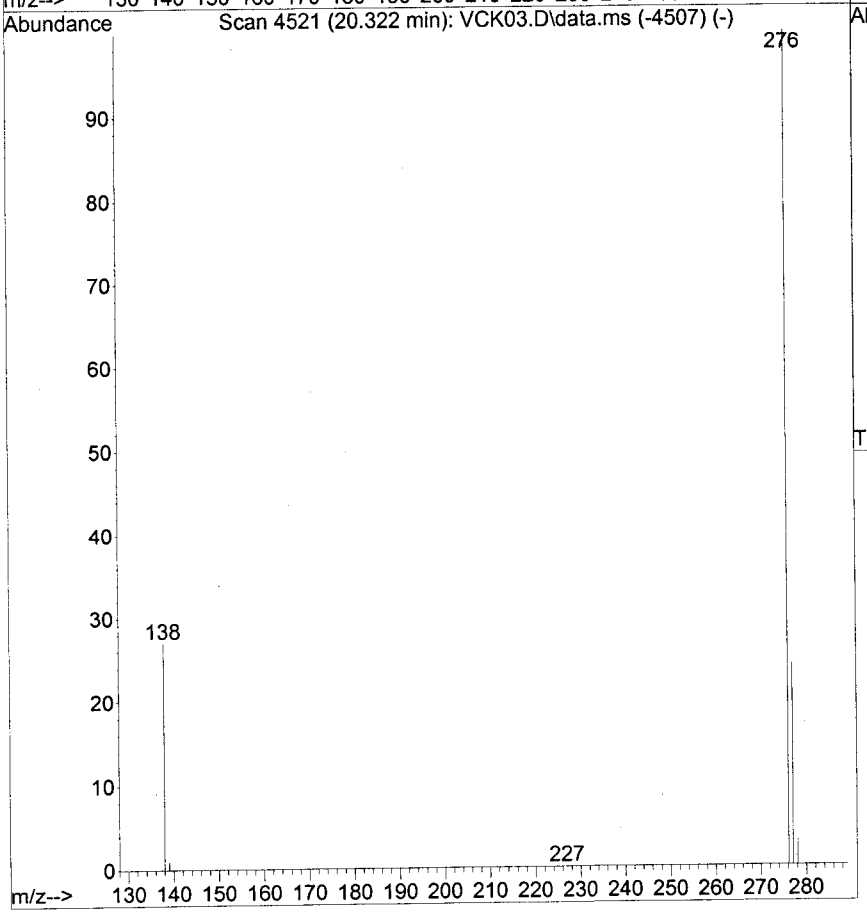
#28
Benzo(g,h,i)perylene
Concen: 0.0449 ug/mL
RT: 20.317 min Scan# 4519
Delta R.T. -0.005 min
Lab File: VCK06.D
Acq: 20 Mar 2008 10:15 am

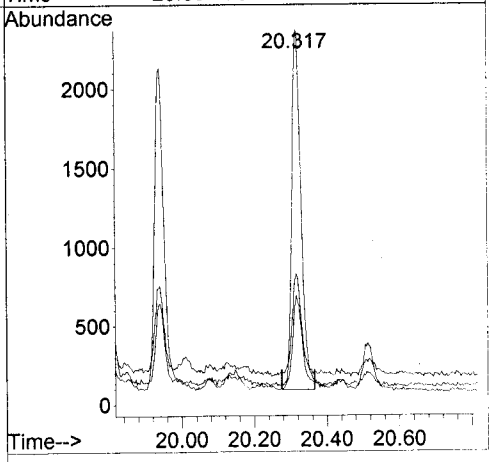
Tgt Ion:276 Resp: 4051

Ion	Ratio	Lower	Upper
276	100		
138	34.8	0.0	22.1#
277	29.1	2.5	42.5



Ref





CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst	: MSBNA03	Lab ID	: 202043-002	Client ID	: 1065EX308[6.0]
Seqnum	: 528115647009	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: vck09	Batch	: 136173	Time	: 20-MAR-2008 11:58
Cal	: 528107208001	Caldate	: 14-MAR-2008		
IDF	: 1.0	Raw Units	: ug/mL	Units	: ug/Kg

30.23 g --> 1.0 ml = 0.03308 ml/g PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.01260	ND	5.0		u
2-Methylnaphthalene	0.008900	ND	5.0		u
Acenaphthylene	0.003100	ND	5.0		u
Acenaphthene	0.003100	ND	5.0		u
Fluorene	0.004400	ND	5.0		u
Phenanthrene	0.01230	ND	5.0		u
Anthracene	0.003700	ND	5.0		u
Fluoranthene	0.01200	ND	5.0		u
Pyrene	0.01730	ND	5.0		u
Benzo(a)anthracene	0.007000	ND	5.0		u
Chrysene	0.004900	ND	5.0		u
Benzo(b)fluoranthene	0.003200	ND	5.0		u
Benzo(k)fluoranthene	0.002700	ND	5.0		u
Benzo(a)pyrene	0.003300	ND	5.0		u
Indeno(1,2,3-cd)pyrene	0.005000	ND	5.0		u
Dibenz(a,h)anthracene	0.003400	ND	5.0		u
Benzo(g,h,i)perylene	0.005900	ND	5.0		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	1.030	33.08	34.07	103	23-120	u
2-Fluorobiphenyl	0.9077	33.08	30.03	91	30-115	u
Terphenyl-d14	0.9148	33.08	30.26	91	18-137	u

ISTD (CCV vck03)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE R	Drift
Naphthalene-d8	128478	100642	-21.67	9.20	9.20	0.00
Acenaphthene-d10	89562	69234	-22.70	11.51	11.50	-0.01
Phenanthrene-d10	151421	131502	-13.15	13.45	13.45	0.00
Chrysene-d12	155293	119445	-23.08	16.91	16.90	-0.01
Perylene-d12	140300	114286	-18.54	18.64	18.64	0.00

LLH: 03/20/08 JAJ: 03/20/08 EAH: 03/21/08

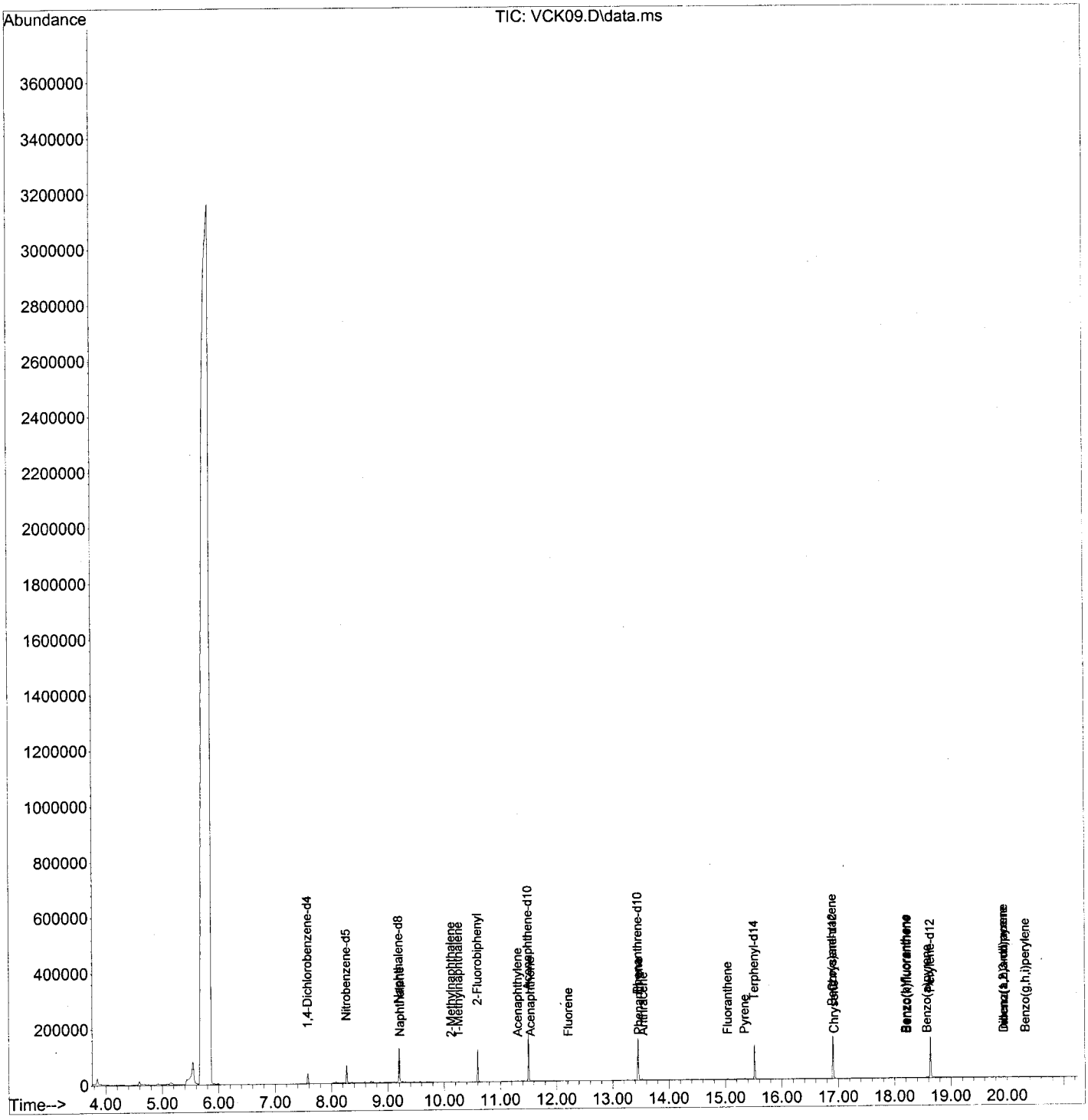
u=use

528115647009

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : VCK09.D
Acq On : 20 Mar 2008 11:58 am
Operator :
Sample : S,202043-002
Misc : 136173,1,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 20 13:20:56 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : VCK09.D
Acq On : 20 Mar 2008 11:58 am
Operator :
Sample : S,202043-002
Misc : 136173,1,
ALS Vial : 8 Sample Multiplier: 1

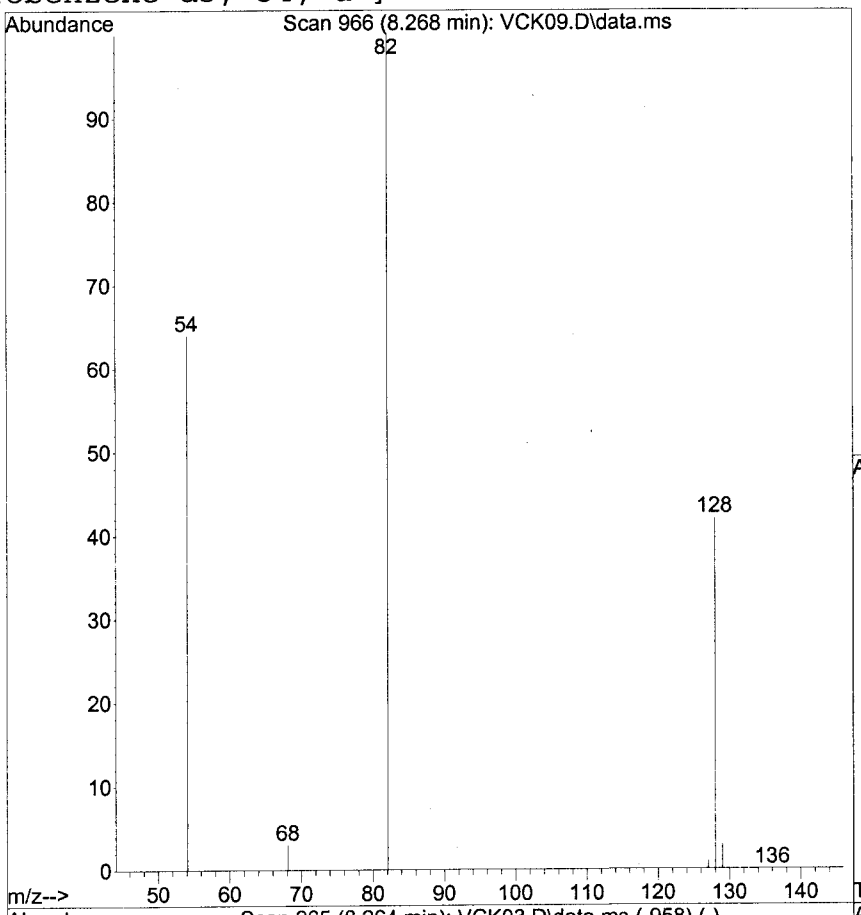
Quant Time: Mar 20 13:20:56 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.579	152	28331	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.201	136	100642	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.503	164	69234	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.452	188	131502	1.0000	ug/mL	0.00
17) Chrysene-d12	16.904	240	119445	1.0000	ug/mL	0.00
22) Perylene-d12	18.635	264	114286	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.		
4) Nitrobenzene-d5	8.268	82	29775	1.0298	ug/mL	84
5) Naphthalene	9.229	128	1424	0.0126	ug/mL	# 58
6) 2-Methylnaphthalene	10.125	142	683	0.0089	ug/mL	96
7) 1-Methylnaphthalene	10.257	142	585	0.0073	ug/mL	95
9) 2-Fluorobiphenyl	10.598	172	82348	0.9077	ug/mL	99
10) Acenaphthylene	11.318	152	349	0.0031	ug/mL	61
11) Acenaphthene	11.548	154	228	0.0031	ug/mL	89
12) Fluorene	12.221	166	400	0.0044	ug/mL	95
14) Phenanthrene	13.482	178	1904	0.0123	ug/mL	91
15) Anthracene	13.548	178	534	0.0037	ug/mL	76
16) Fluoranthene	15.045	202	1952	0.0120	ug/mL	91
18) Pyrene	15.345	202	2818	0.0173	ug/mL	97
19) Terphenyl-d14	15.517	244	108062	0.9148	ug/mL	83
20) Benzo(a)anthracene	16.889	228	970	0.0070	ug/mL	75
21) Chrysene	16.937	228	708	0.0049	ug/mL	84
23) Benzo(b)fluoranthene	18.200	252	502	0.0032	ug/mL	# 1
24) Benzo(k)fluoranthene	18.230	252	425	0.0027	ug/mL	# 1
25) Benzo(a)pyrene	18.571	252	448	0.0033	ug/mL	# 1
26) Indeno(1,2,3-cd)pyrene	19.940	276	527	0.0050	ug/mL	# 1
27) Dibenz(a,h)anthracene	19.943	278	300	0.0034	ug/mL	# 1
28) Benzo(g,h,i)perylene	20.320	276	520	0.0059	ug/mL	# 29

(#) = qualifier out of range (m) = manual integration (+) = signals summed

[Nitrobenzene-d5; 34; u]

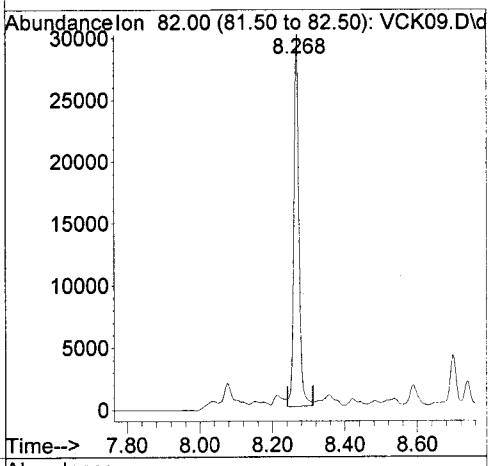
Raw



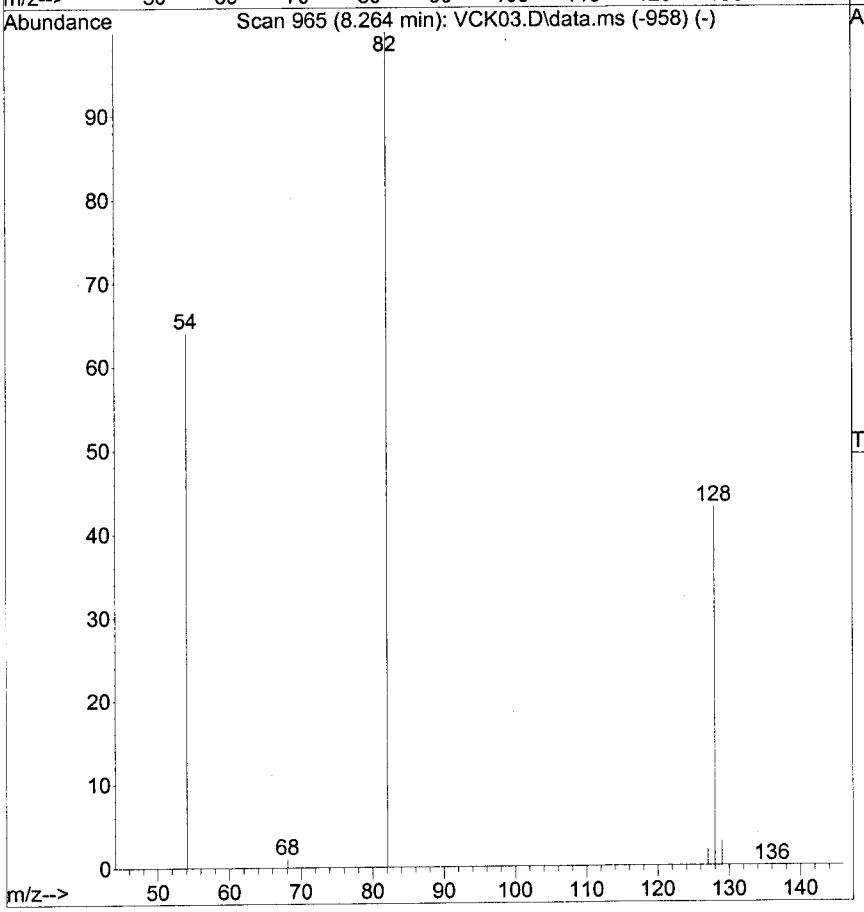
#4
Nitrobenzene-d5
Concen: 1.0298 ug/mL
RT: 8.268 min Scan# 966
Delta R.T. 0.004 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

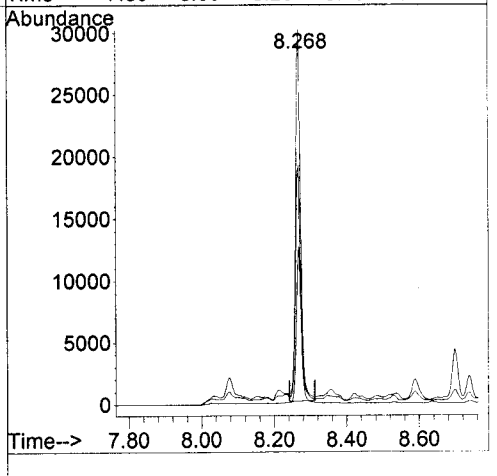
Tgt Ion: 82 Resp: 29775

Ion	Ratio	Lower	Upper
82	100		
128	42.1	10.5	50.5
54	63.7	56.2	96.2



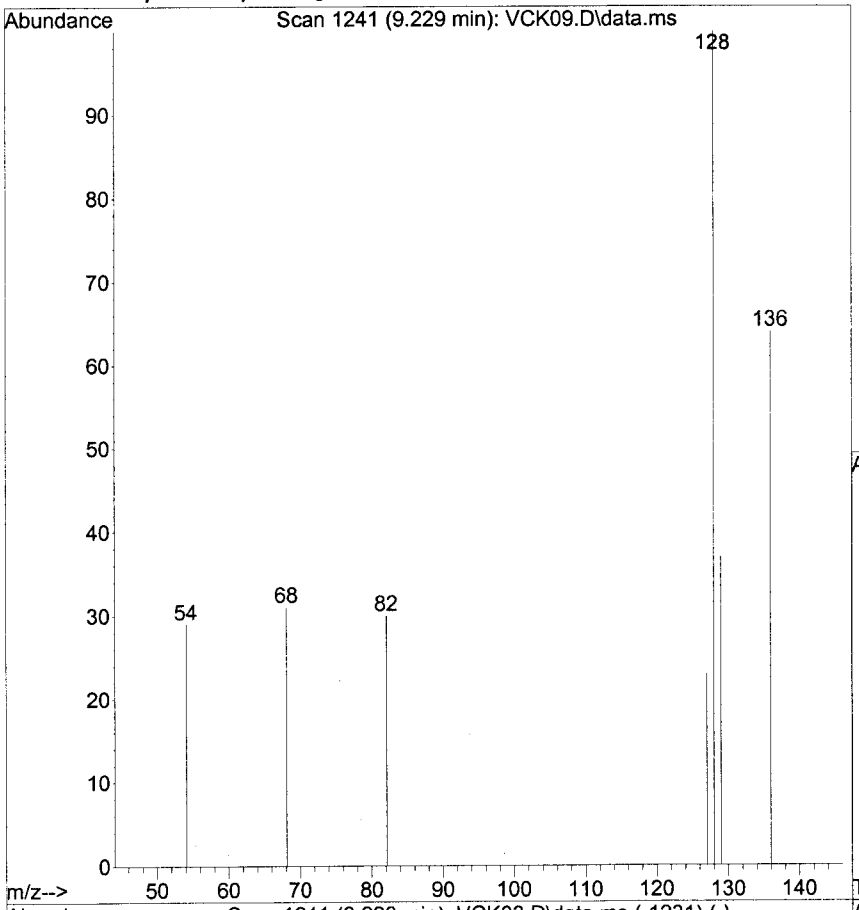
Ref





[Naphthalene; <RL; u]

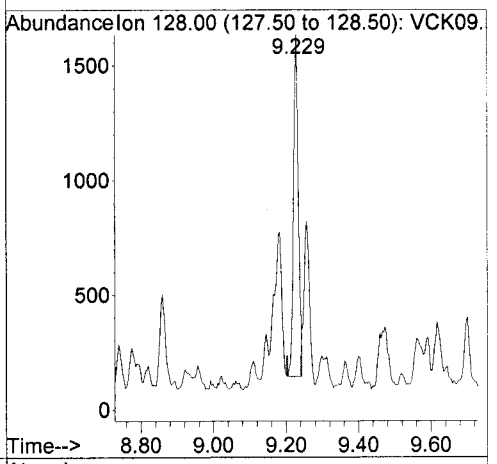
Raw



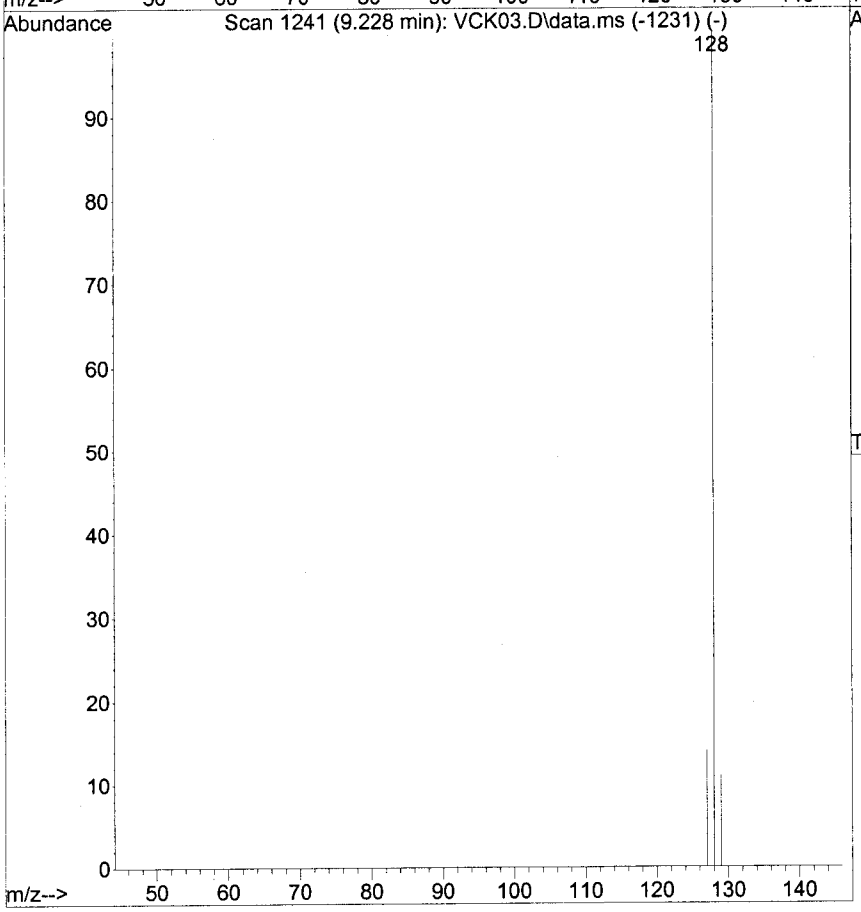
#5
Naphthalene
Concen: 0.0126 ug/mL
RT: 9.229 min Scan# 1241
Delta R.T. 0.001 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

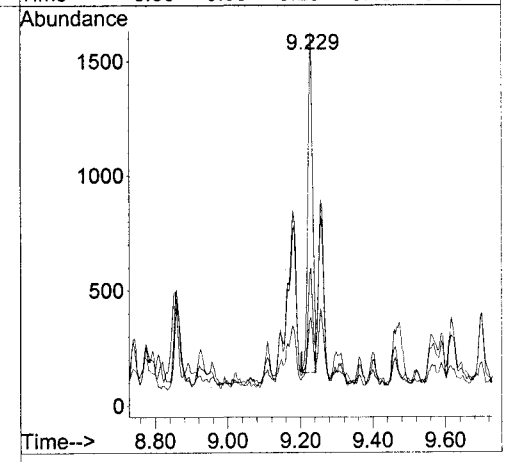
Tgt Ion:128 Resp: 1424

Ion	Ratio	Lower	Upper
128	100		
129	36.5	0.0	31.1#
127	23.4	0.0	34.0



Ref

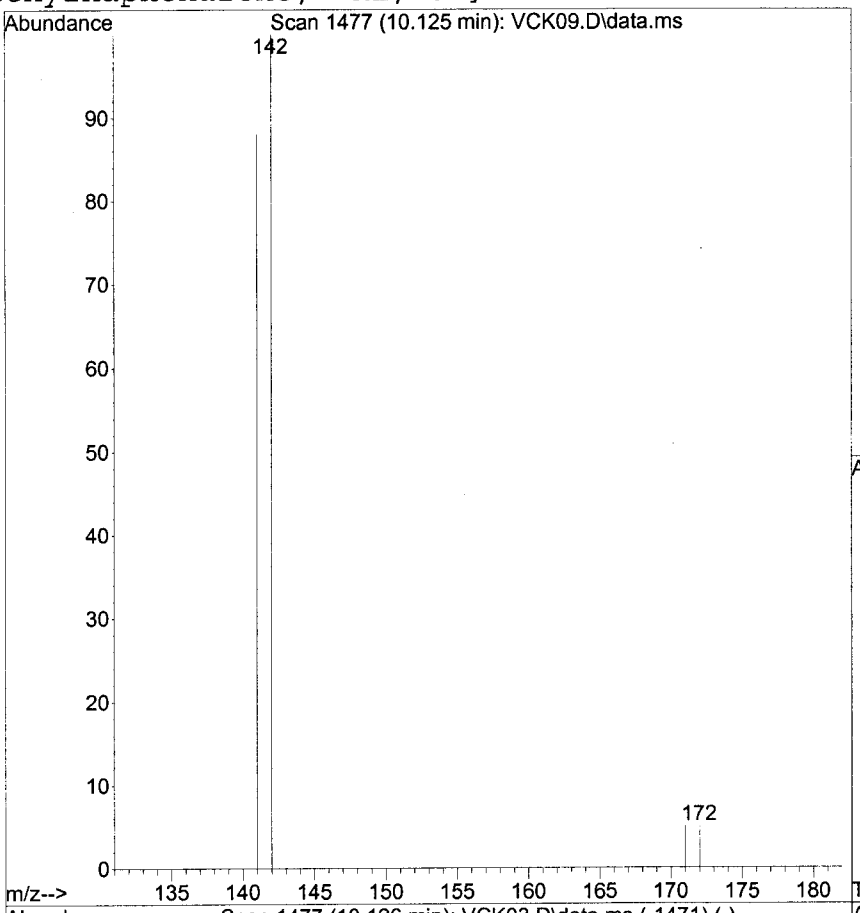




000071

[2-Methylnaphthalene; <RL; u]

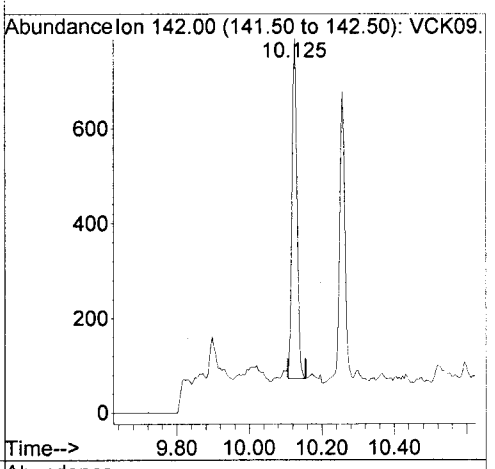
Raw



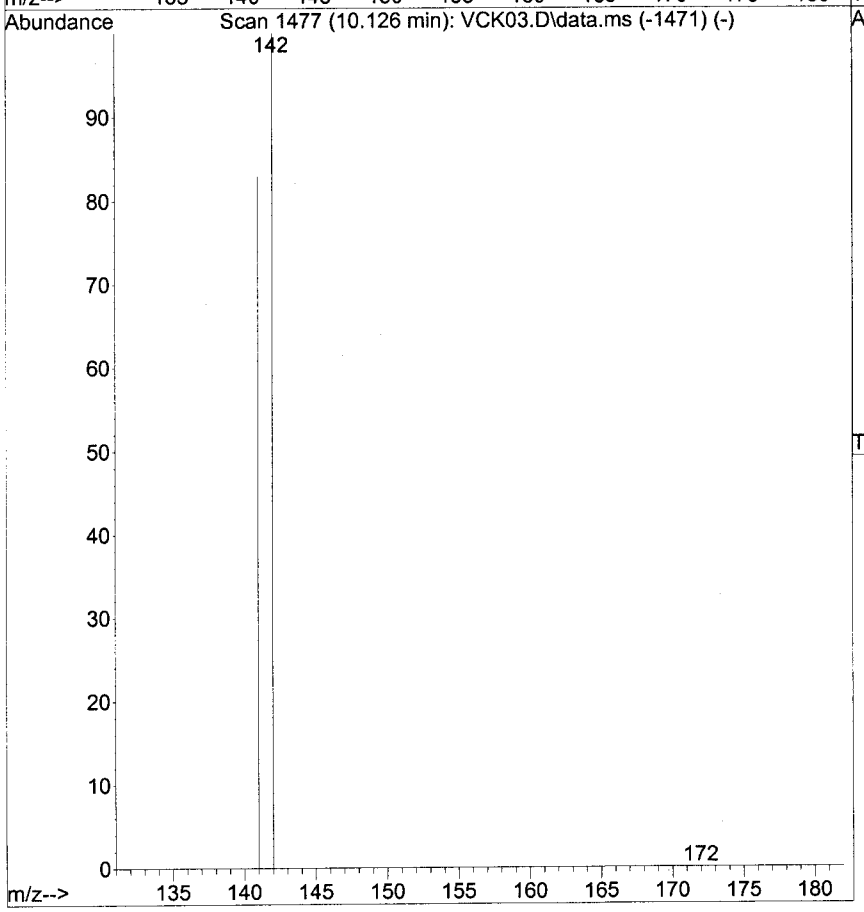
#6
2-Methylnaphthalene
Concen: 0.0089 ug/mL
RT: 10.125 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

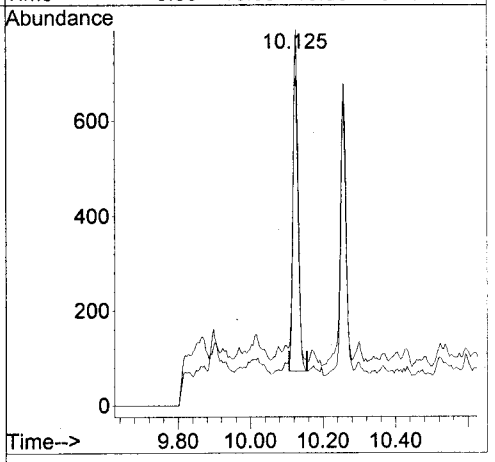
Tgt Ion:142 Resp: 683

Ion	Ratio	Lower	Upper
142	100		
141	87.6	71.3	111.3



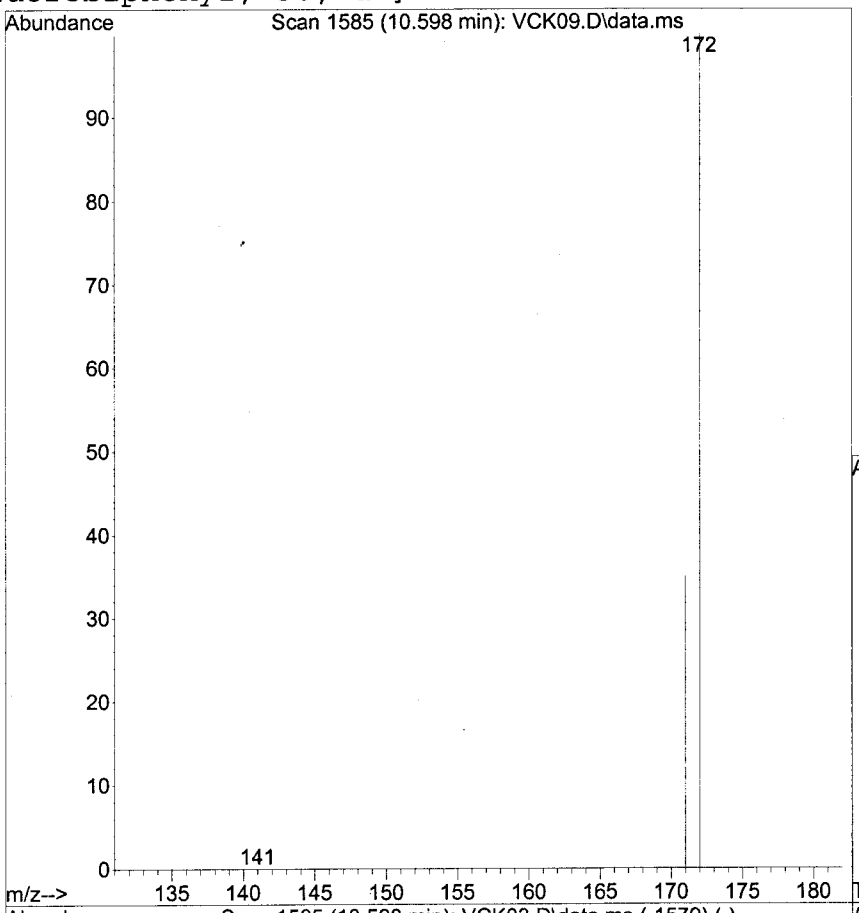
Ref





[2-Fluorobiphenyl; 30; u]

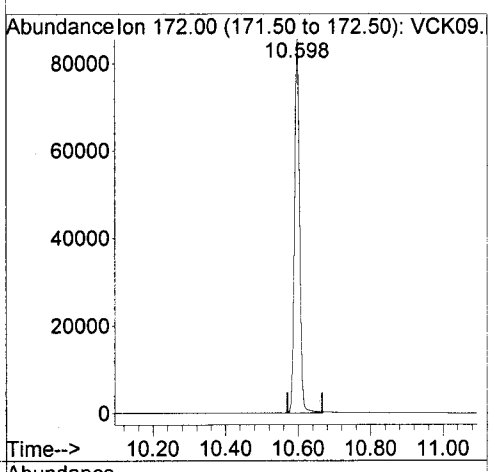
Raw



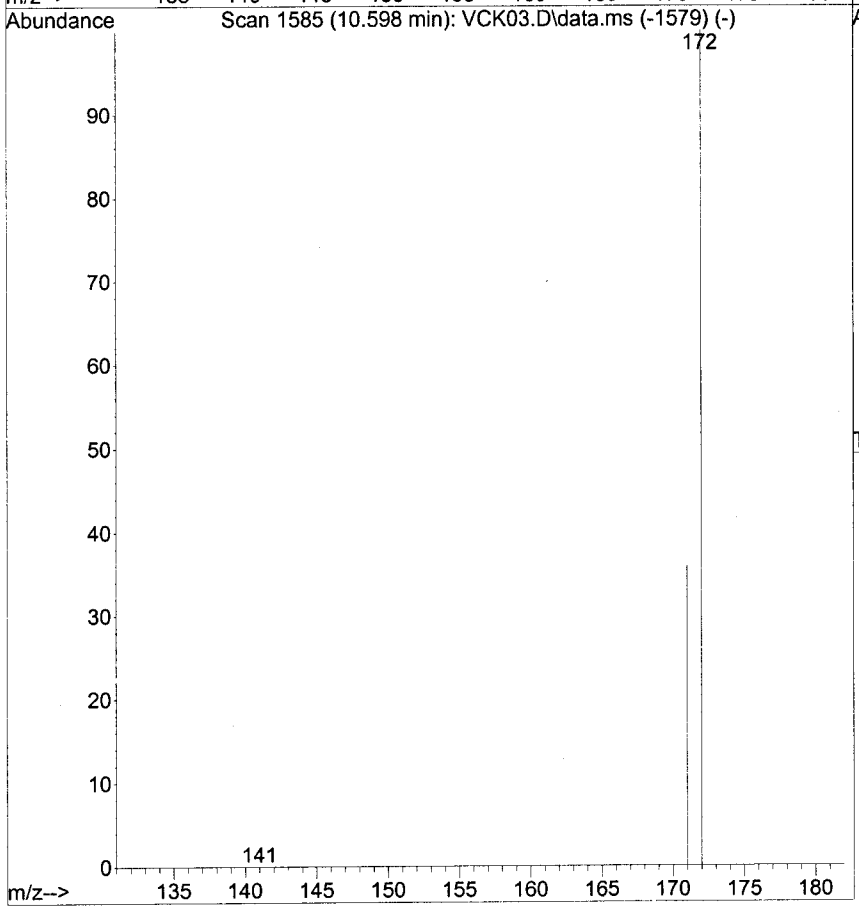
#9
2-Fluorobiphenyl
Concen: 0.9077 ug/mL
RT: 10.598 min Scan# 1585
Delta R.T. -0.000 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

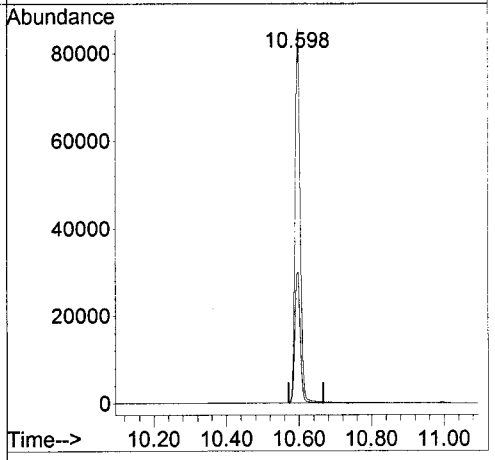
Tgt Ion:172 Resp: 82348

Ion	Ratio	Lower	Upper
172	100		
171	35.1	14.4	54.4



Ref

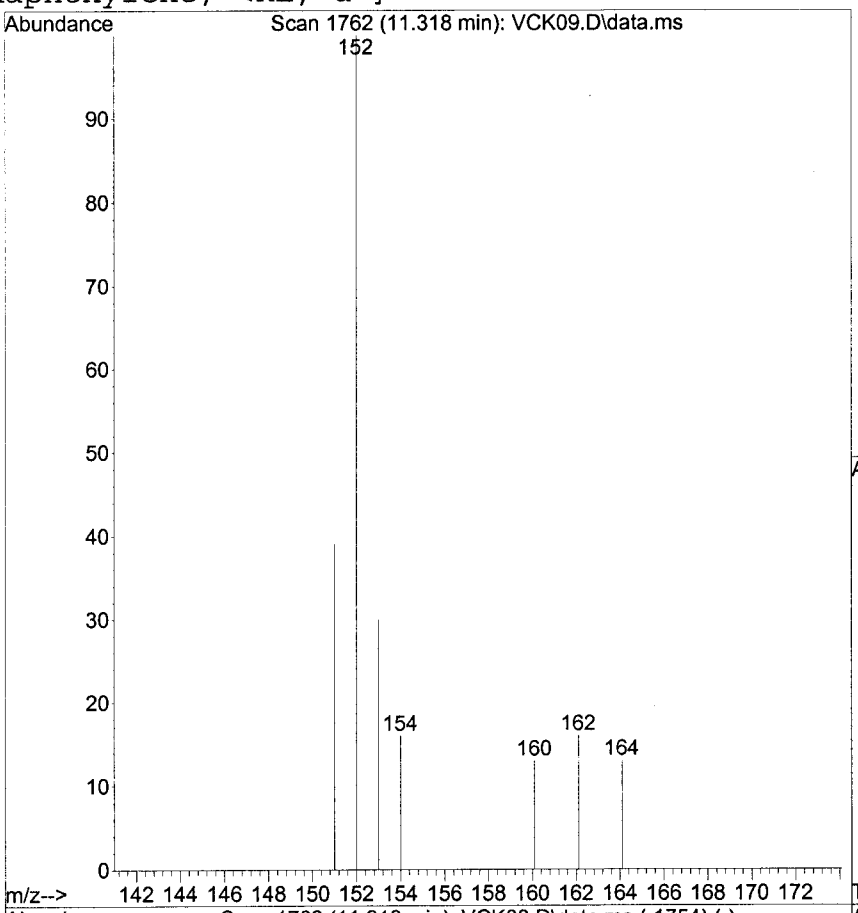




00073

[Acenaphthylene; <RL; u]

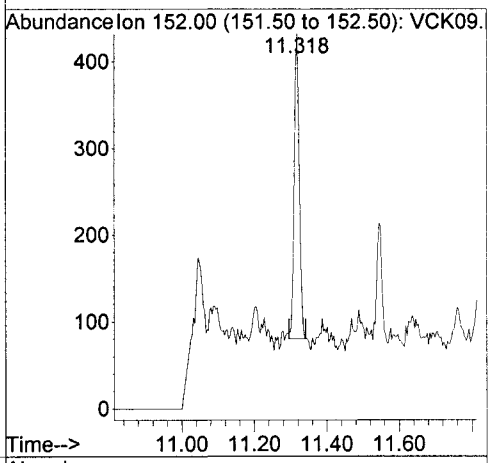
Raw



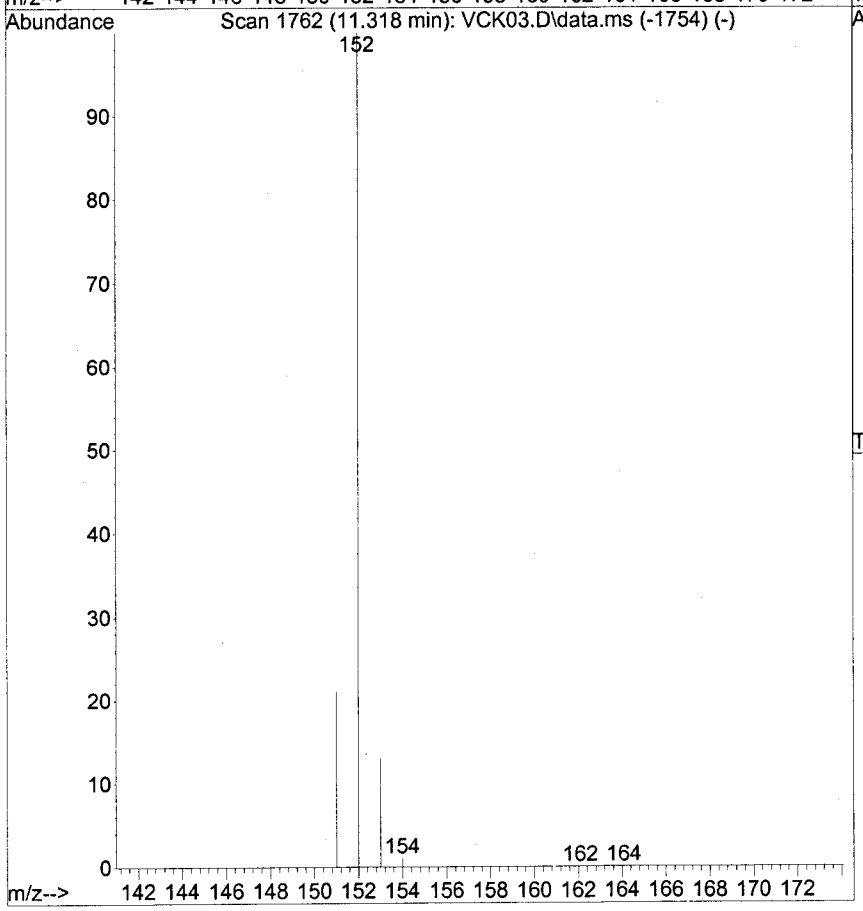
#10
Acenaphthylene
Concen: 0.0031 ug/mL
RT: 11.318 min Scan# 1762
Delta R.T. 0.000 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

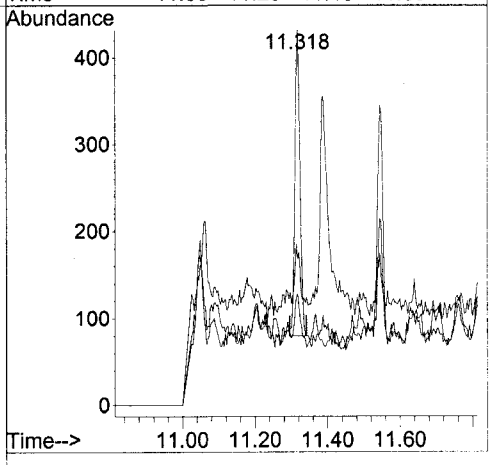
Tgt Ion:152 Resp: 349

Ion	Ratio	Lower	Upper
152	100		
151	38.9	1.0	41.0
153	29.6	0.0	33.1



Ref

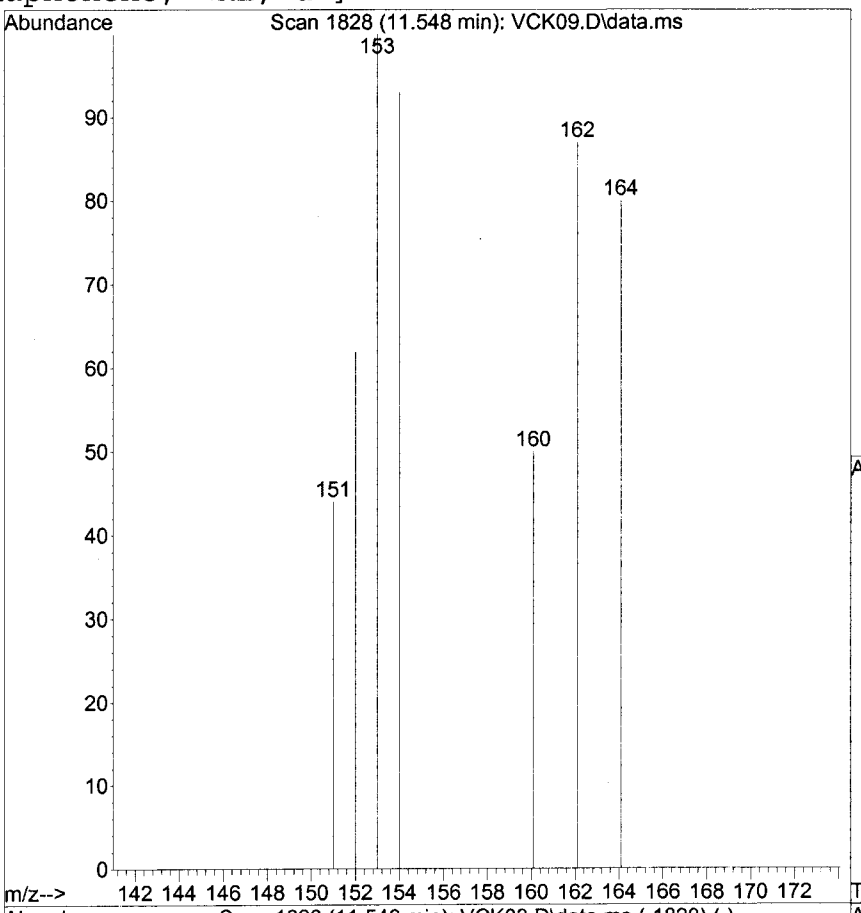




000714

[Acenaphthene; <RL; u]

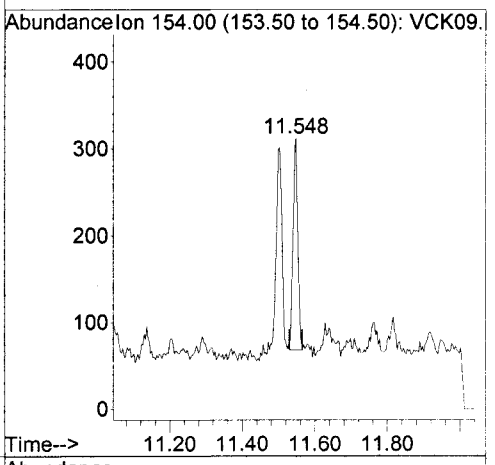
Raw



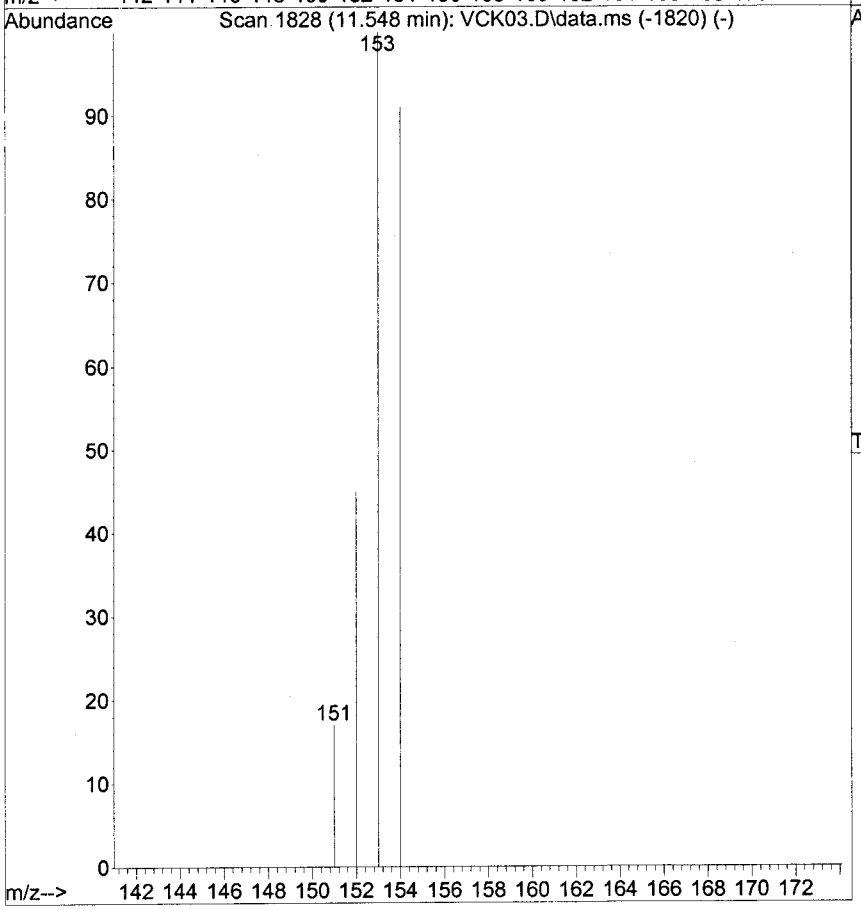
#11
Acenaphthene
Concen: 0.0031 ug/mL
RT: 11.548 min Scan# 1828
Delta R.T. 0.000 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

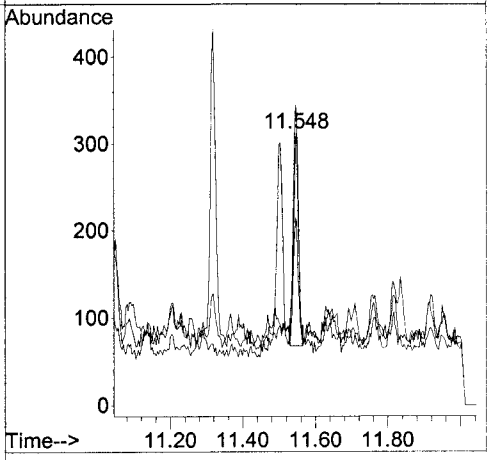
Tgt Ion:154 Resp: 228

Ion	Ratio	Lower	Upper
154	100		
152	67.0	35.4	75.4
153	107.4	96.8	136.8



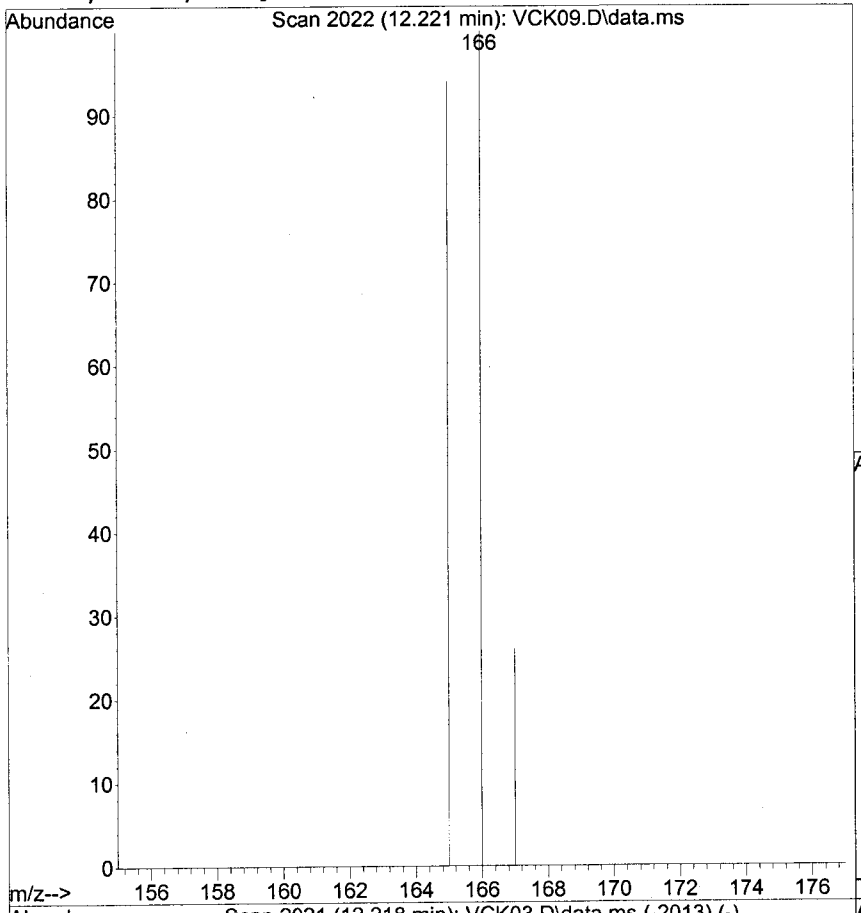
Ref





[Fluorene; <RL; u]

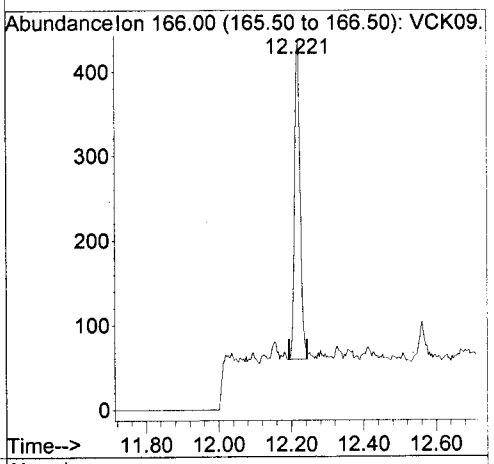
Raw



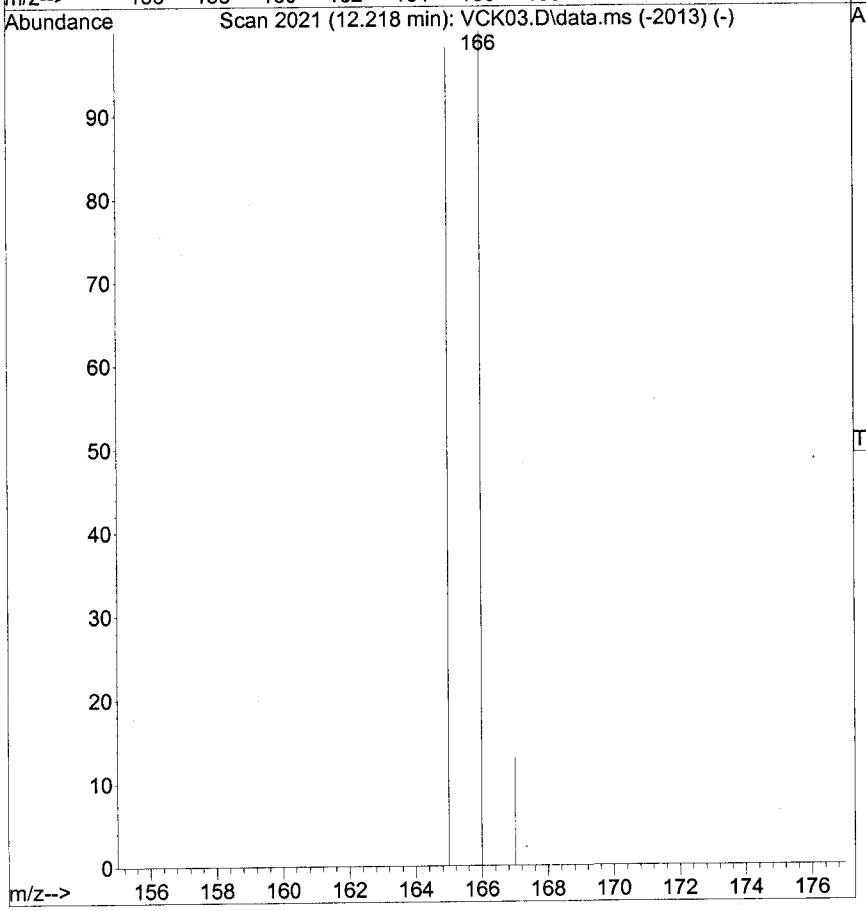
#12
Fluorene
Concen: 0.0044 ug/mL
RT: 12.221 min Scan# 2022
Delta R.T. 0.003 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

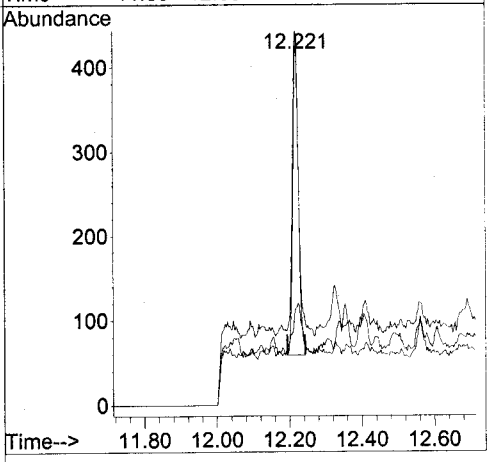
Tgt Ion:166 Resp: 400

Ion	Ratio	Lower	Upper
166	100		
165	94.0	74.9	114.9
167	26.4	0.0	33.9



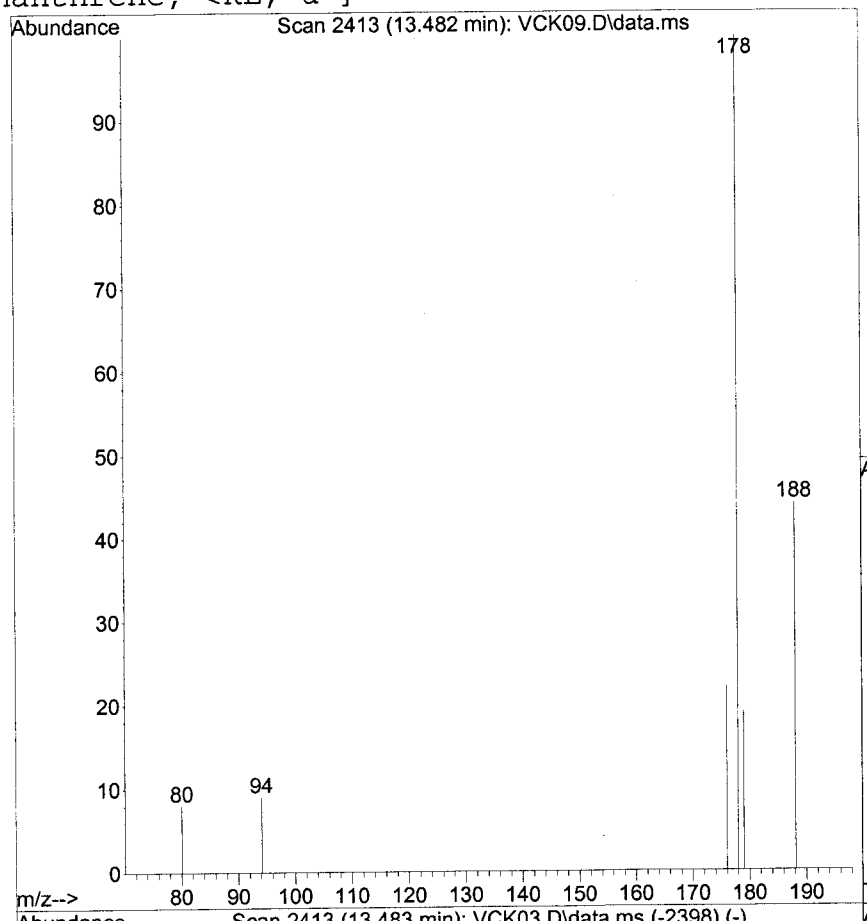
Ref





[Phenanthrene; <RL; u]

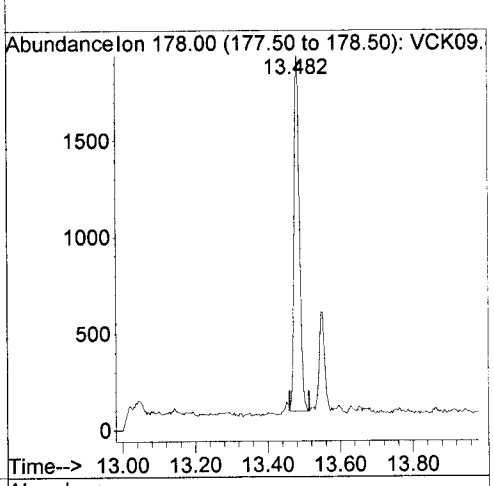
Raw



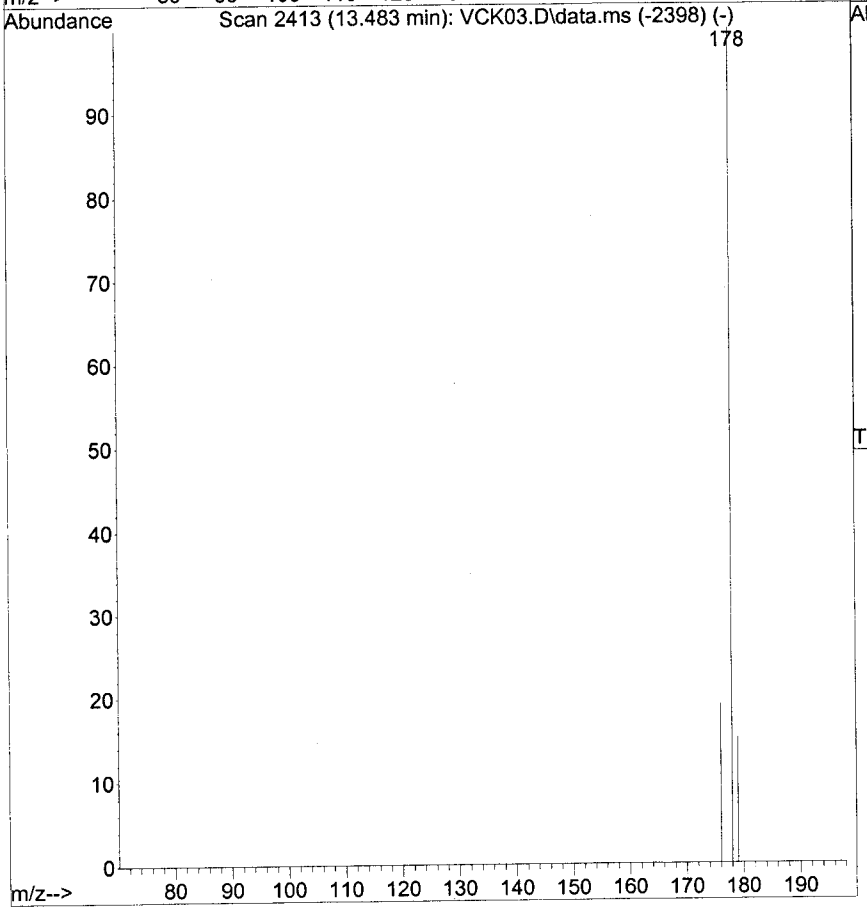
#14
Phenanthrene
Concen: 0.0123 ug/mL
RT: 13.482 min Scan# 2413
Delta R.T. -0.000 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

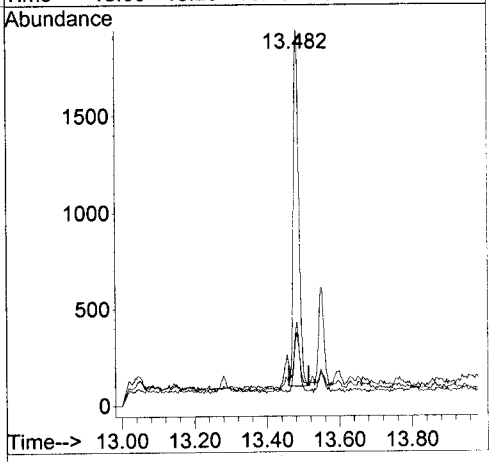
Tgt Ion:178 Resp: 1904

Ion	Ratio	Lower	Upper
178	100		
179	19.3	0.0	35.0
176	22.2	0.0	38.9



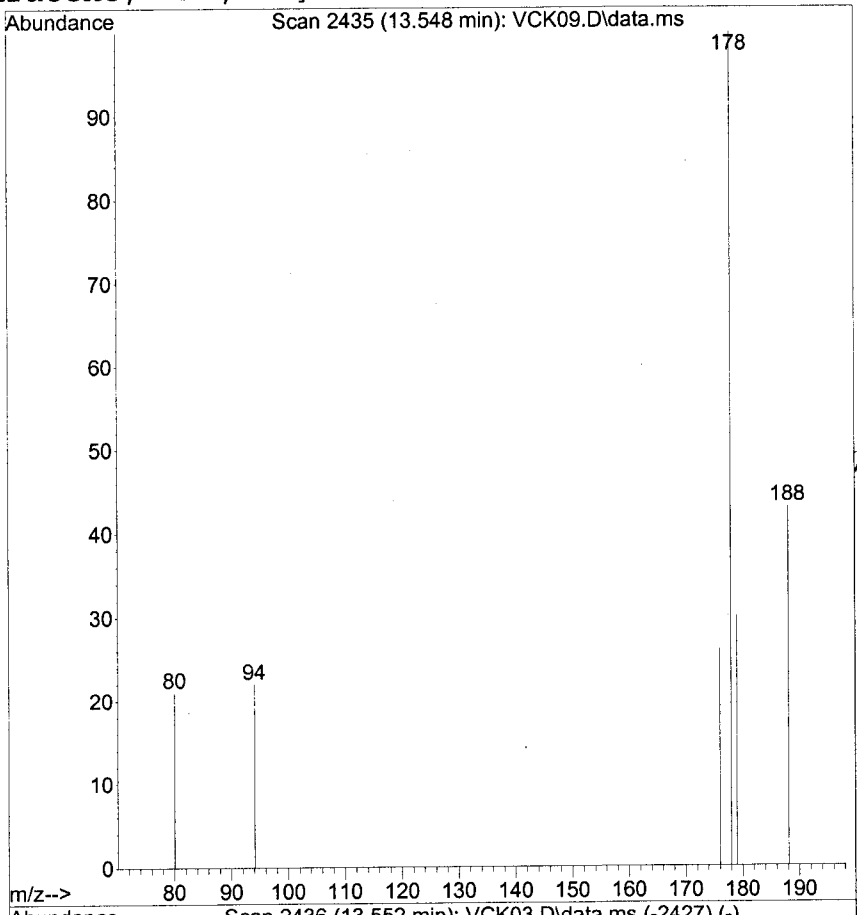
Ref





[Anthracene; <RL; u]

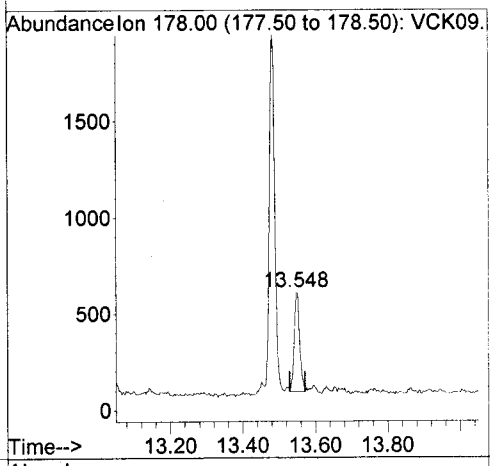
Raw



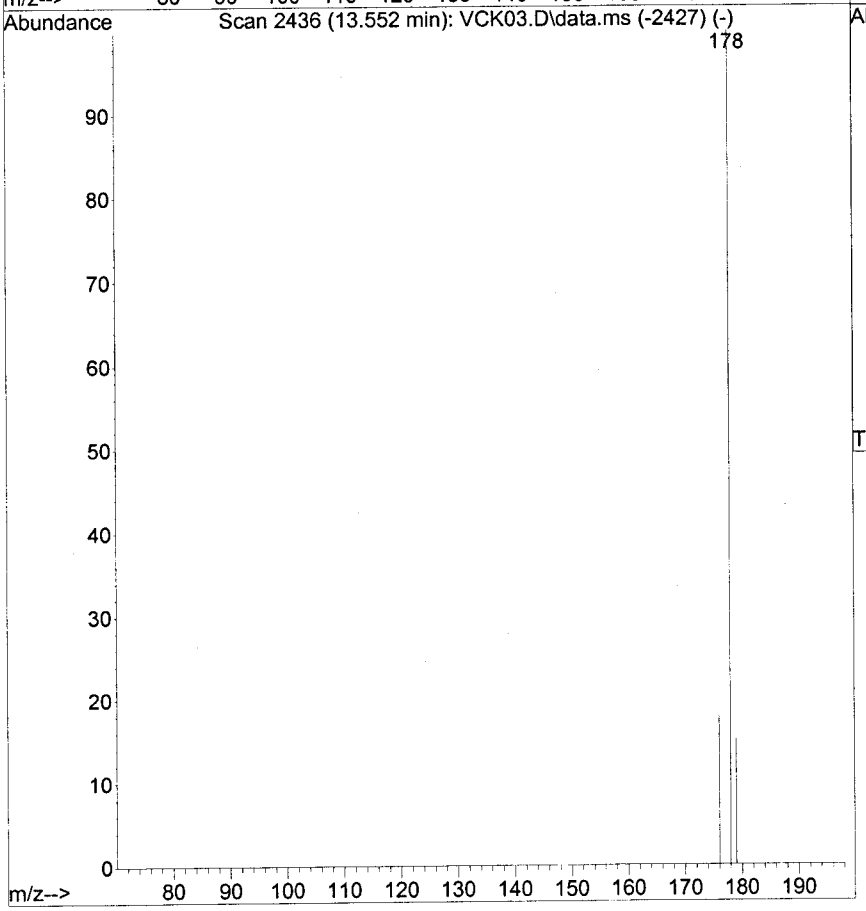
#15
Anthracene
Concen: 0.0037 ug/mL
RT: 13.548 min Scan# 2435
Delta R.T. -0.004 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

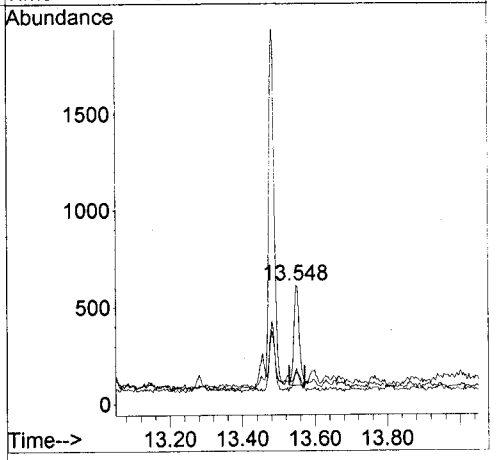
Tgt Ion:178 Resp: 534

Ion	Ratio	Lower	Upper
178	100		
179	30.1	0.0	34.4
176	25.8	0.0	39.5



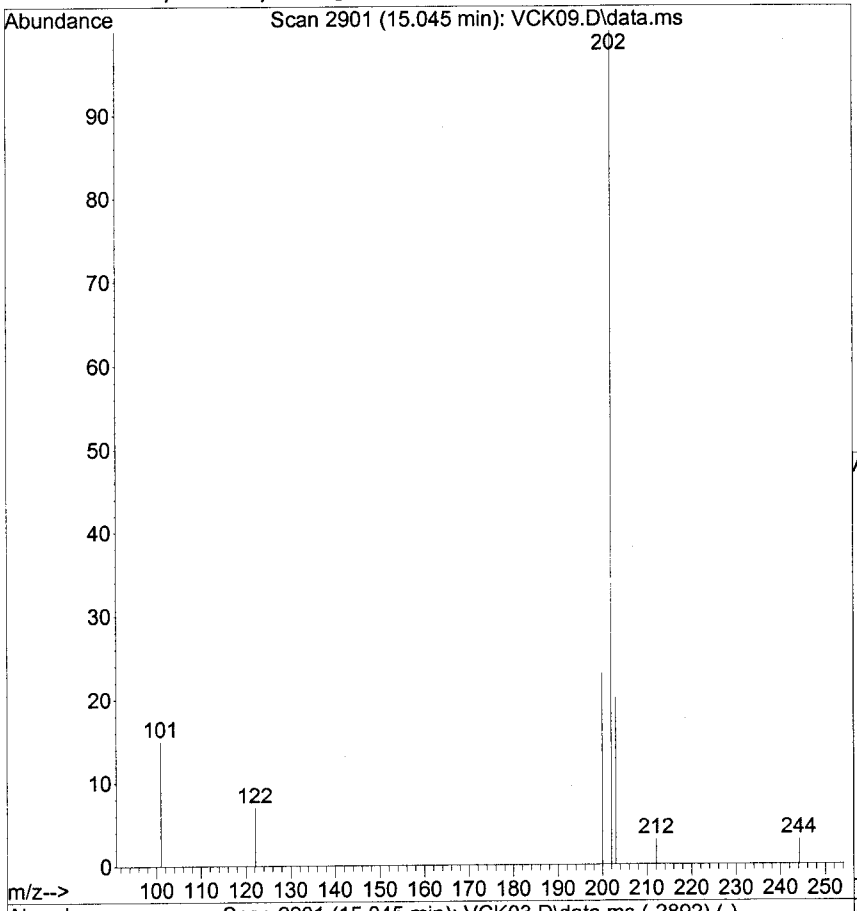
Ref





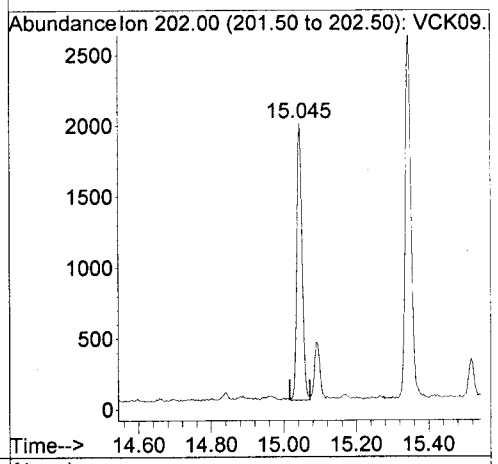
[Fluoranthene; <RL; u]

Raw

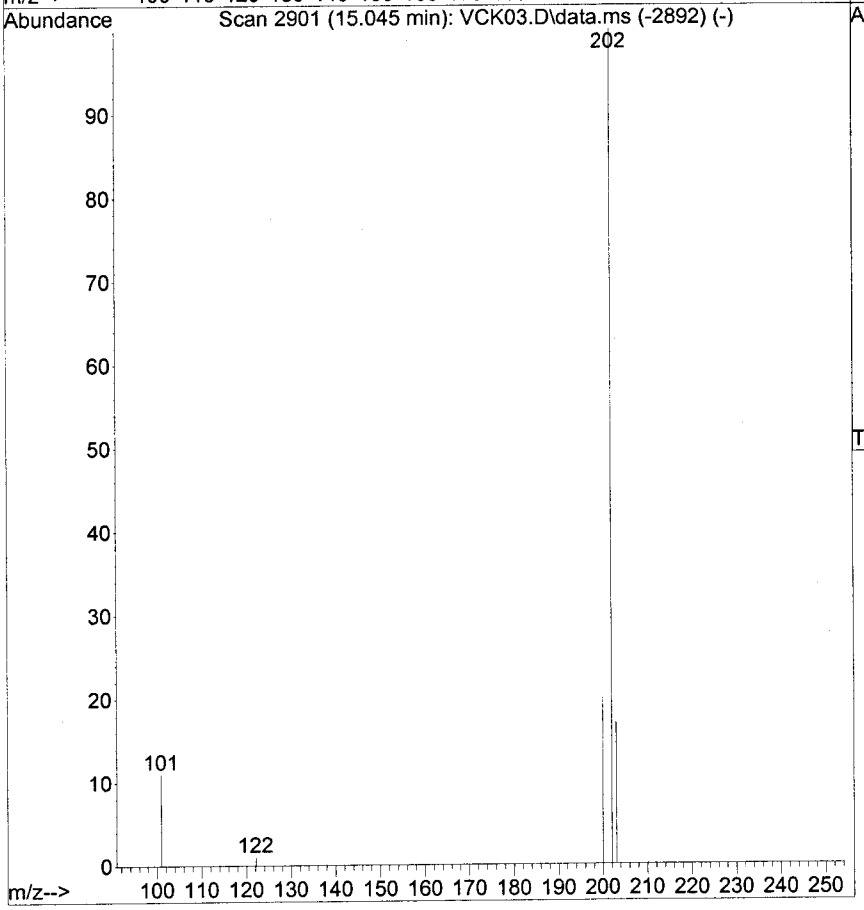


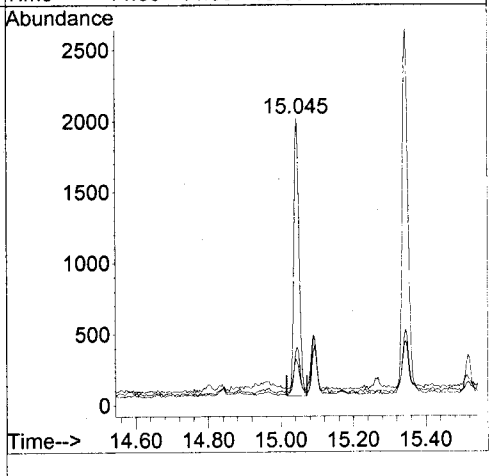
#16
Fluoranthene
Concen: 0.0120 ug/mL
RT: 15.045 min Scan# 2901
Delta R.T. -0.000 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

Tgt Ion:202	Resp:	1952	
Ion	Ratio	Lower	Upper
202	100		
101	15.2	0.0	21.1
203	20.2	0.0	37.0



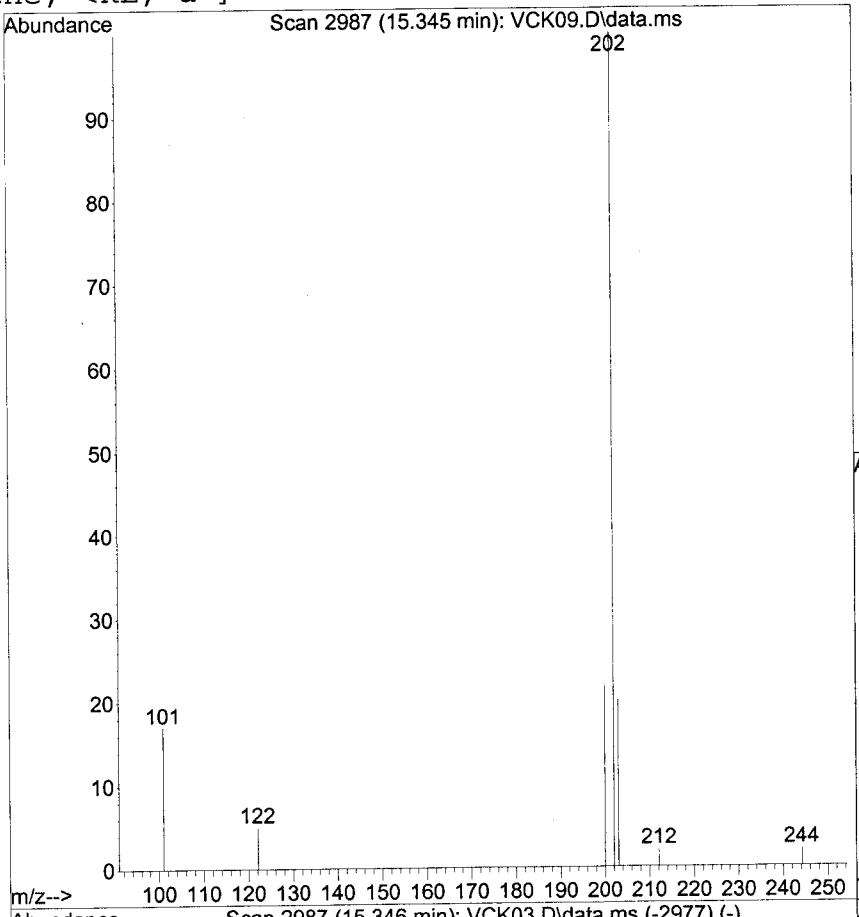
Ref





[Pyrene; <RL; u]

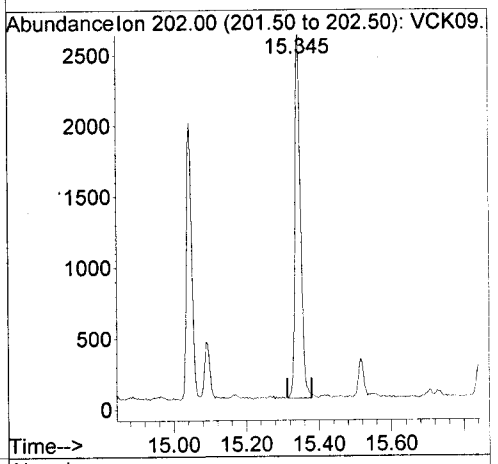
Raw



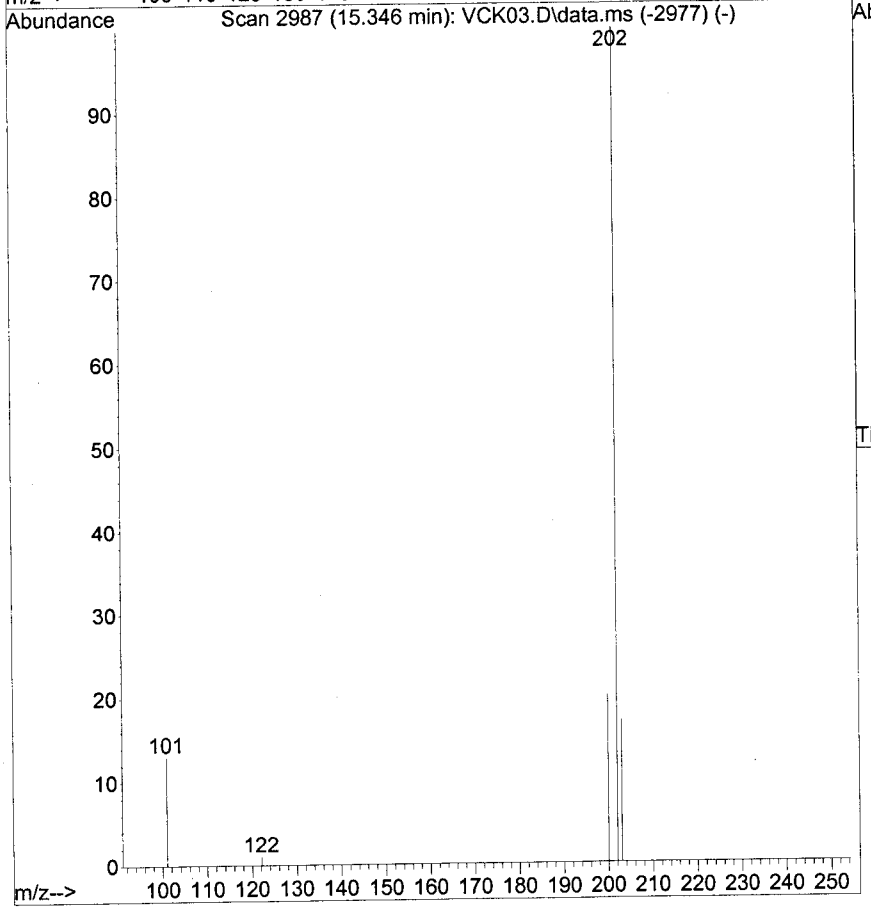
#18
Pyrene
Concen: 0.0173 ug/mL
RT: 15.345 min Scan# 2987
Delta R.T. -0.000 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

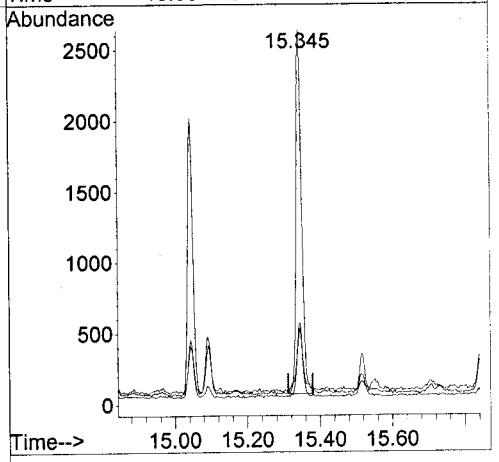
Tgt Ion:202 Resp: 2818

Ion	Ratio	Lower	Upper
202	100		
200	21.6	1.1	41.1
203	20.1	0.0	37.7



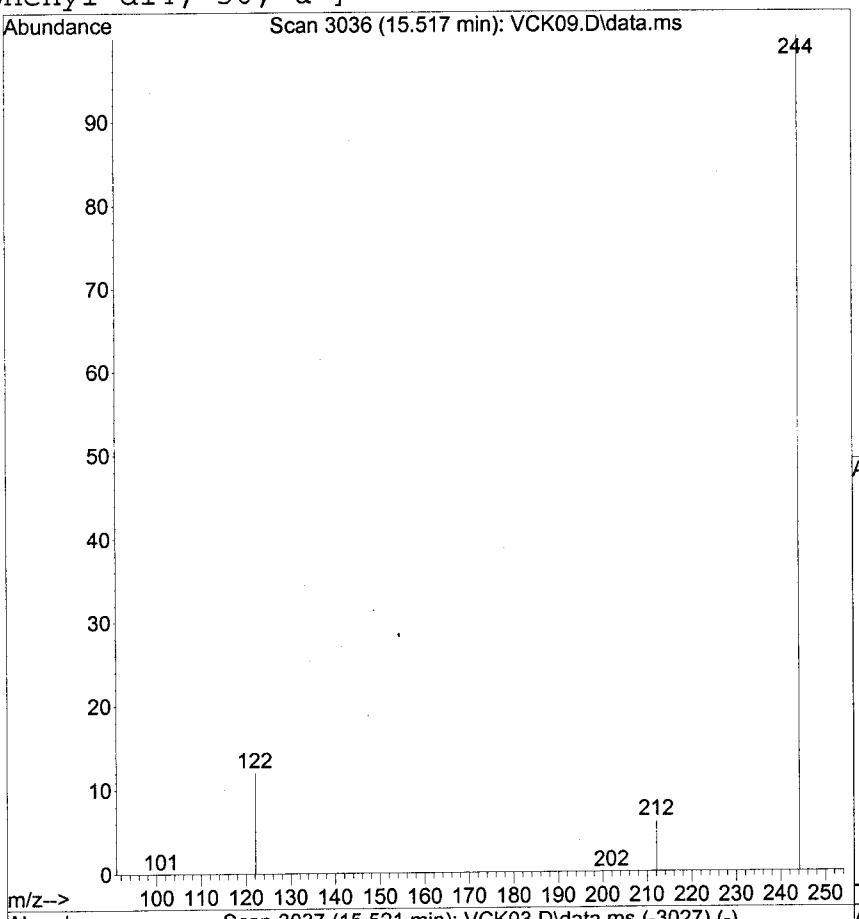
Ref





[Terphenyl-d14; 30; u]

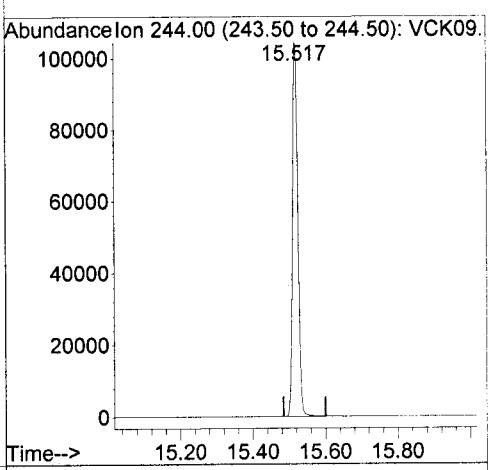
Raw



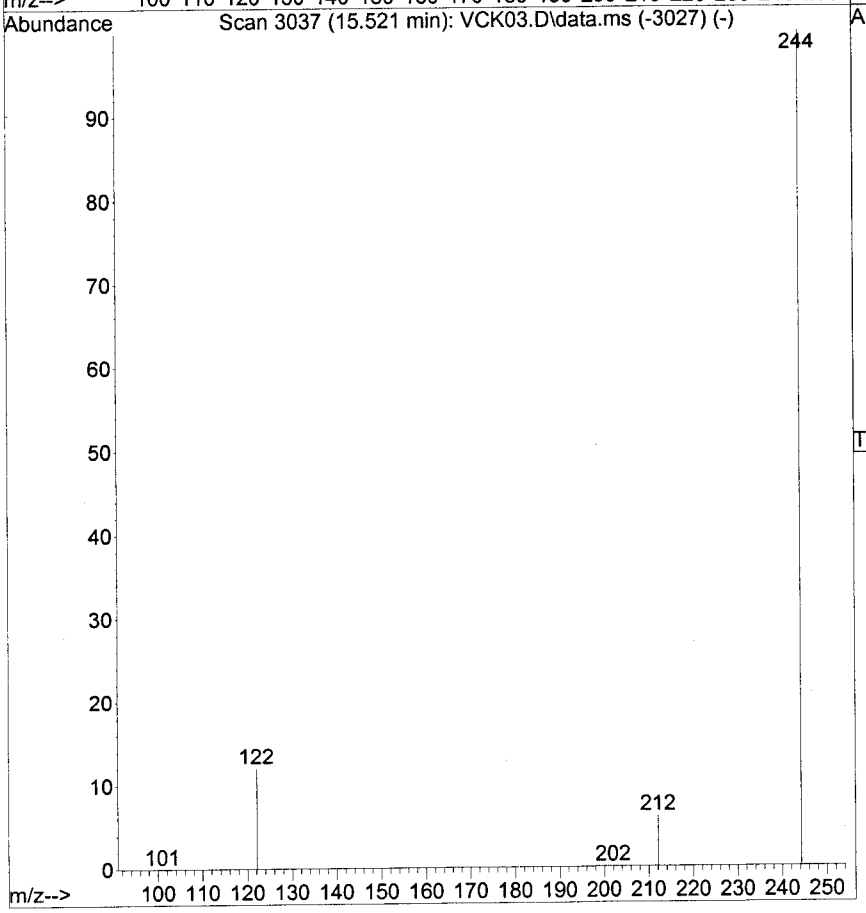
#19
Terphenyl-d14
Concen: 0.9148 ug/mL
RT: 15.517 min Scan# 3036
Delta R.T. -0.004 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

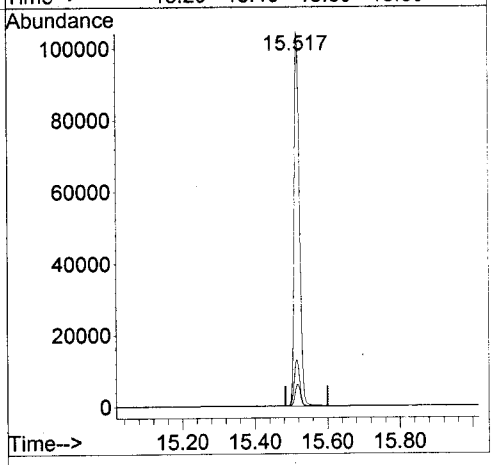
Tgt Ion:244 Resp: 108062

Ion	Ratio	Lower	Upper
244	100		
122	12.3	0.0	25.0
212	5.9	0.0	31.4



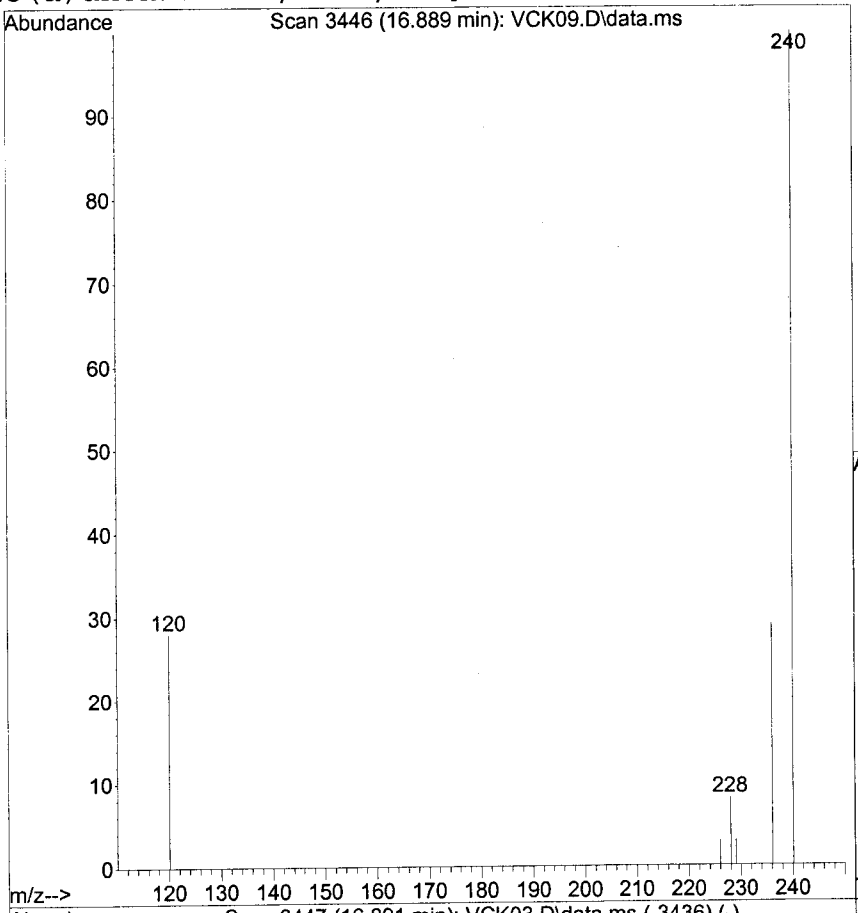
Ref





[Benzo(a)anthracene; <RL; u]

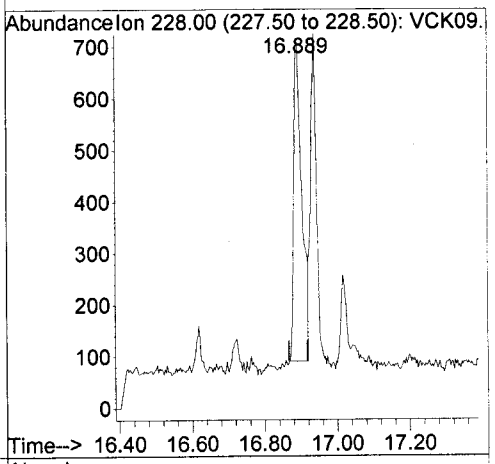
Raw



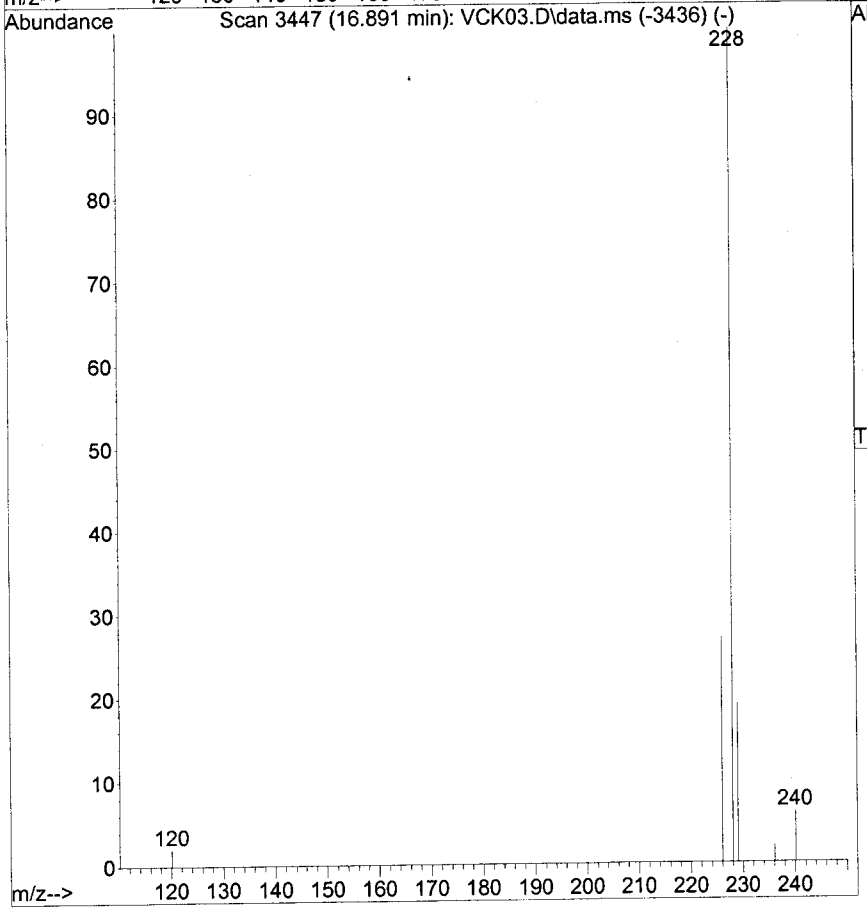
#20
Benzo(a)anthracene
Concen: 0.0070 ug/mL
RT: 16.889 min Scan# 3446
Delta R.T. -0.002 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

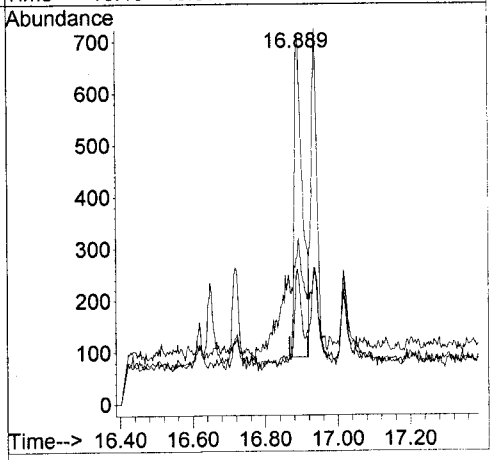
Tgt Ion:228 Resp: 970

Ion	Ratio	Lower	Upper
228	100		
229	39.7	0.1	40.1
226	36.3	9.3	49.3



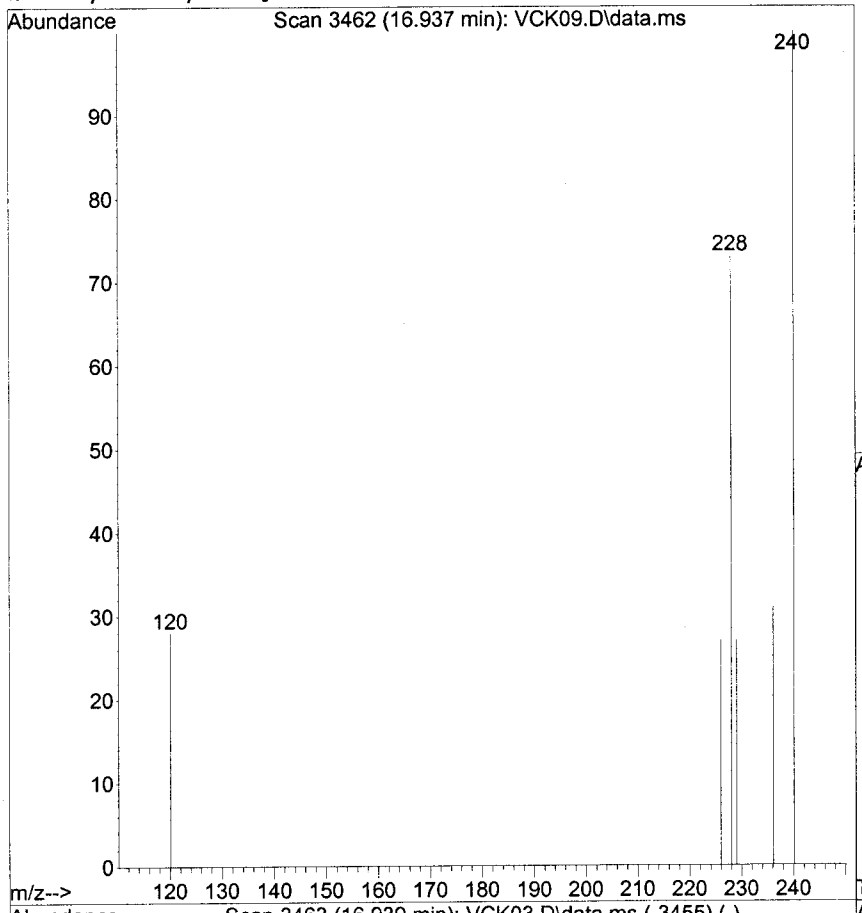
Ref





[Chrysene; <RL; u]

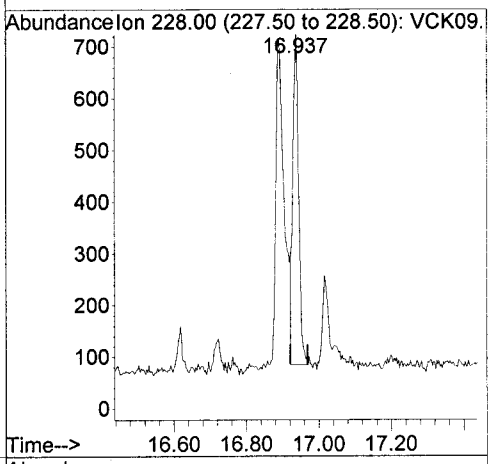
Raw



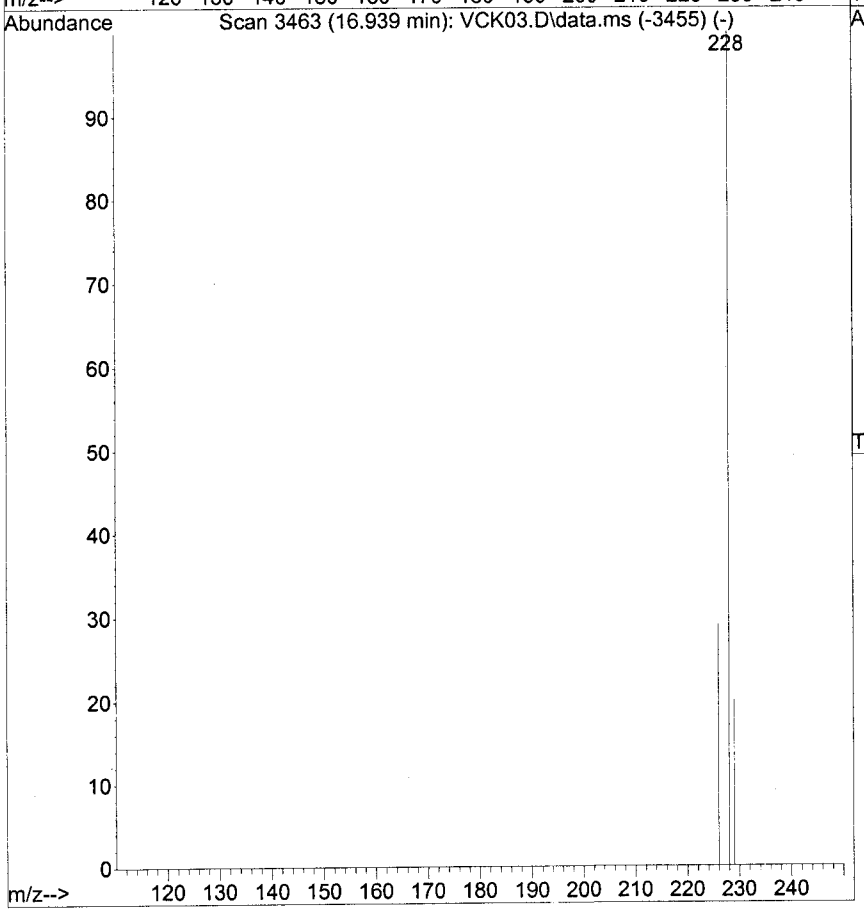
#21
Chrysene
Concen: 0.0049 ug/mL
RT: 16.937 min Scan# 3462
Delta R.T. -0.002 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

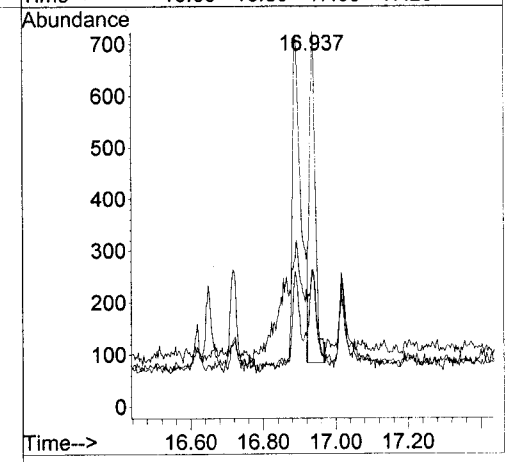
Tgt Ion:228 Resp: 708

Ion	Ratio	Lower	Upper
228	100		
226	36.4	13.4	53.4
229	36.3	0.8	40.8



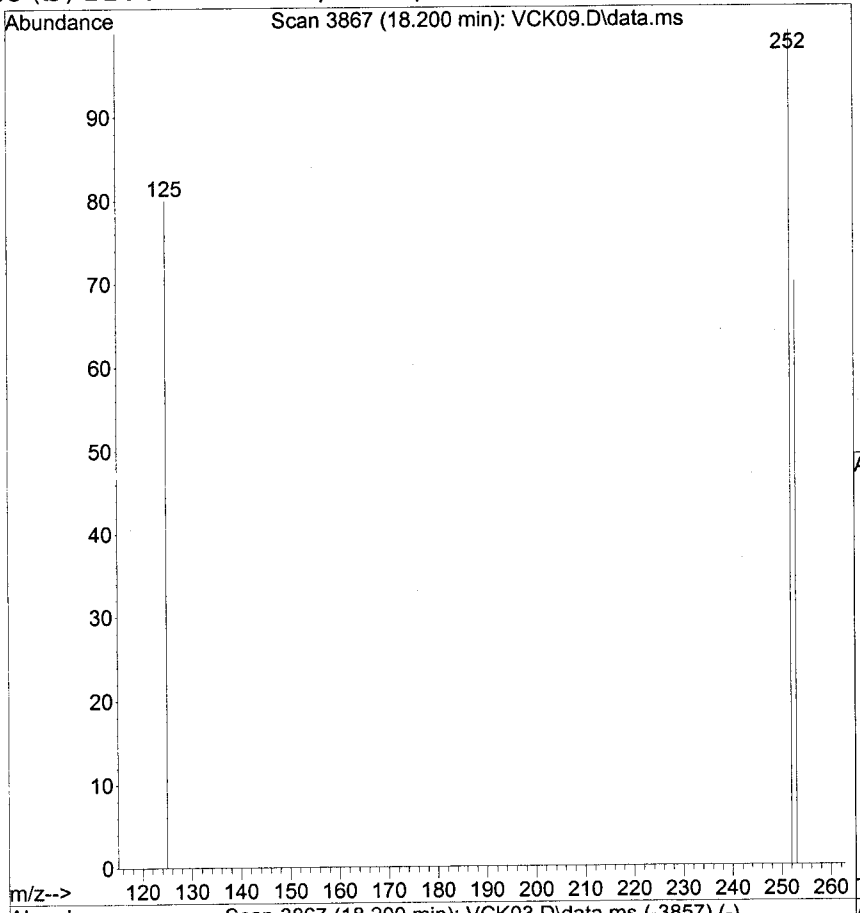
Ref





[Benzo(b)fluoranthene; <RL; u]

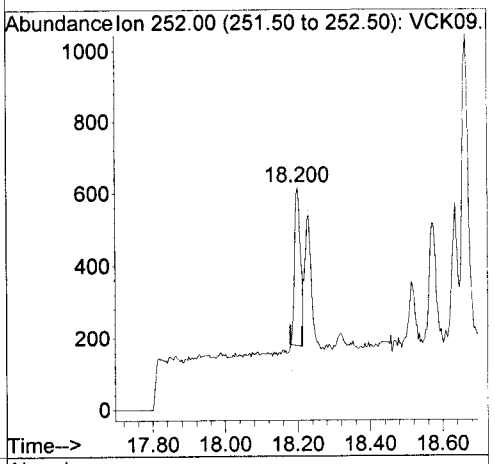
Raw



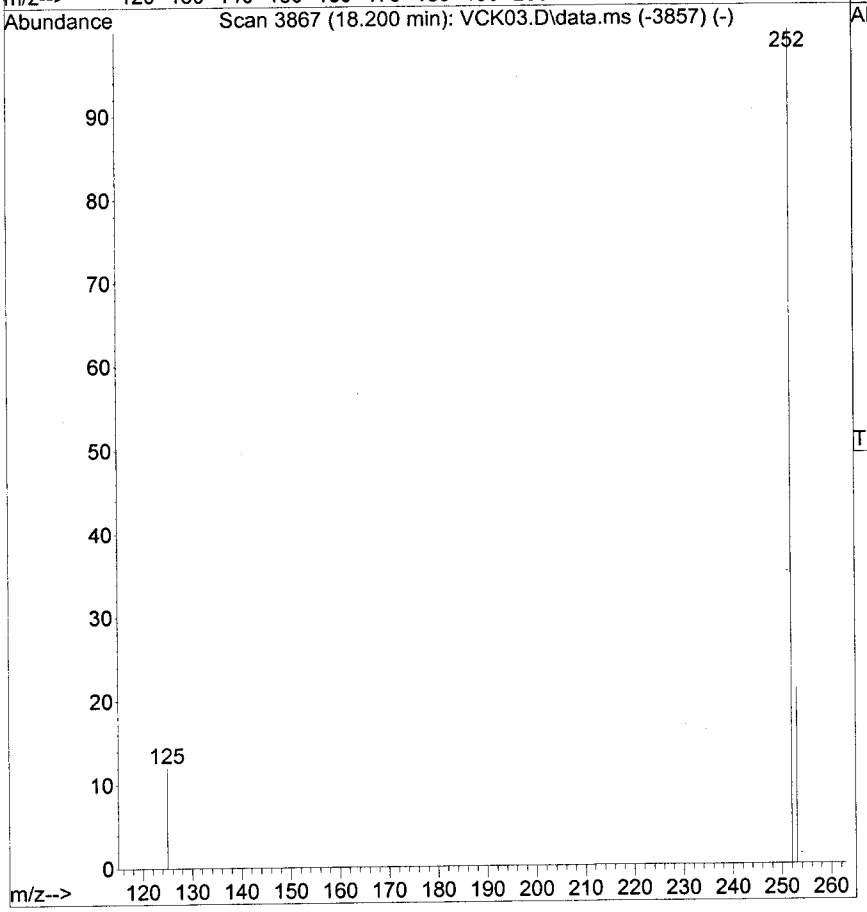
#23
Benzo(b)fluoranthene
Concen: 0.0032 ug/mL
RT: 18.200 min Scan# 3867
Delta R.T. 0.000 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

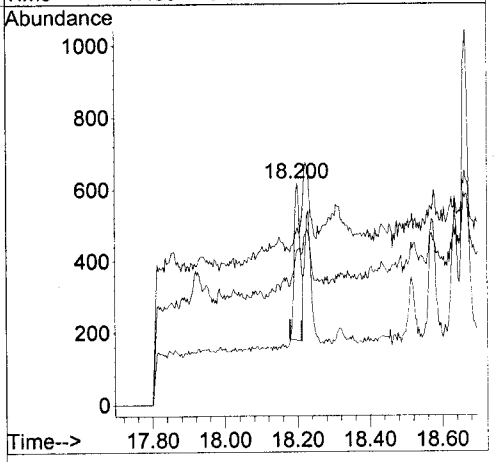
Tgt Ion:252 Resp: 502

Ion	Ratio	Lower	Upper
252	100		
253	69.9	1.0	41.0#
125	80.1	0.0	20.9#



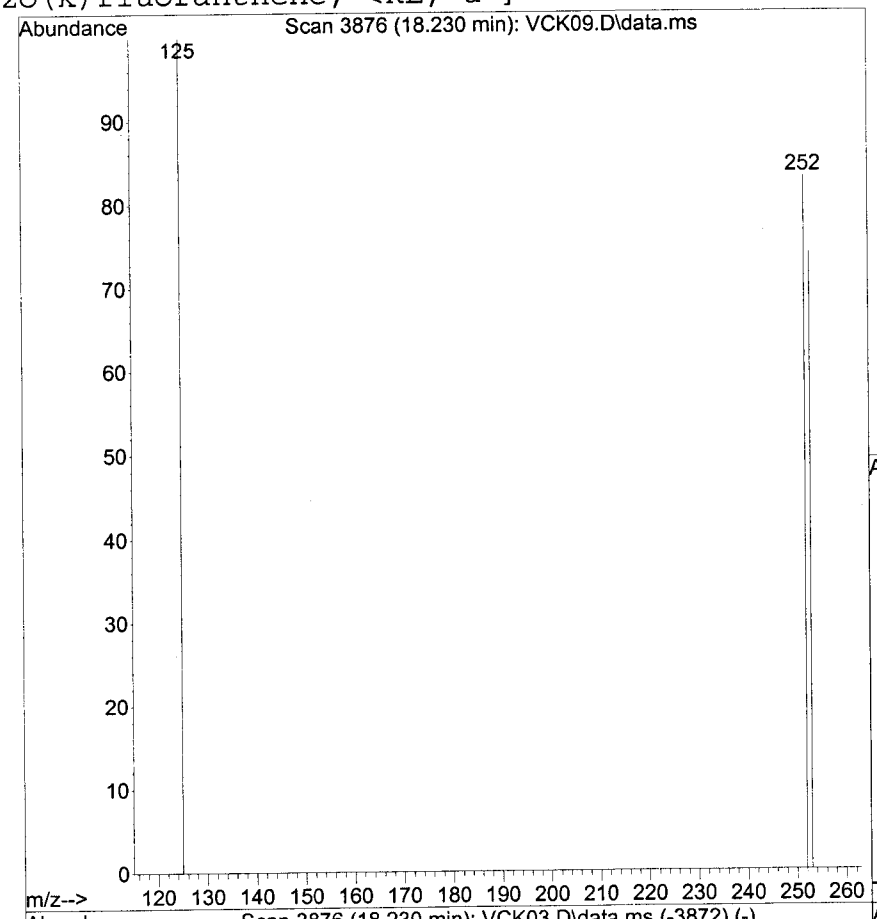
Ref





[Benzo(k)fluoranthene; <RL; u]

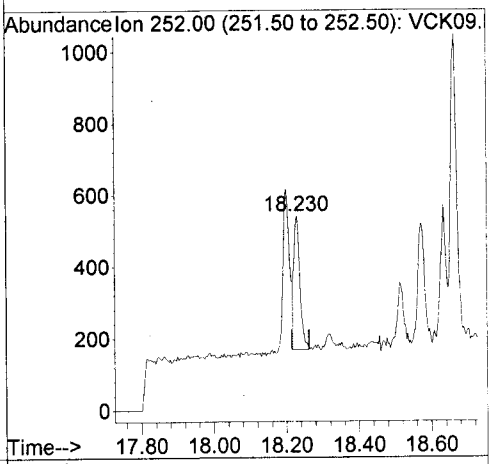
Raw



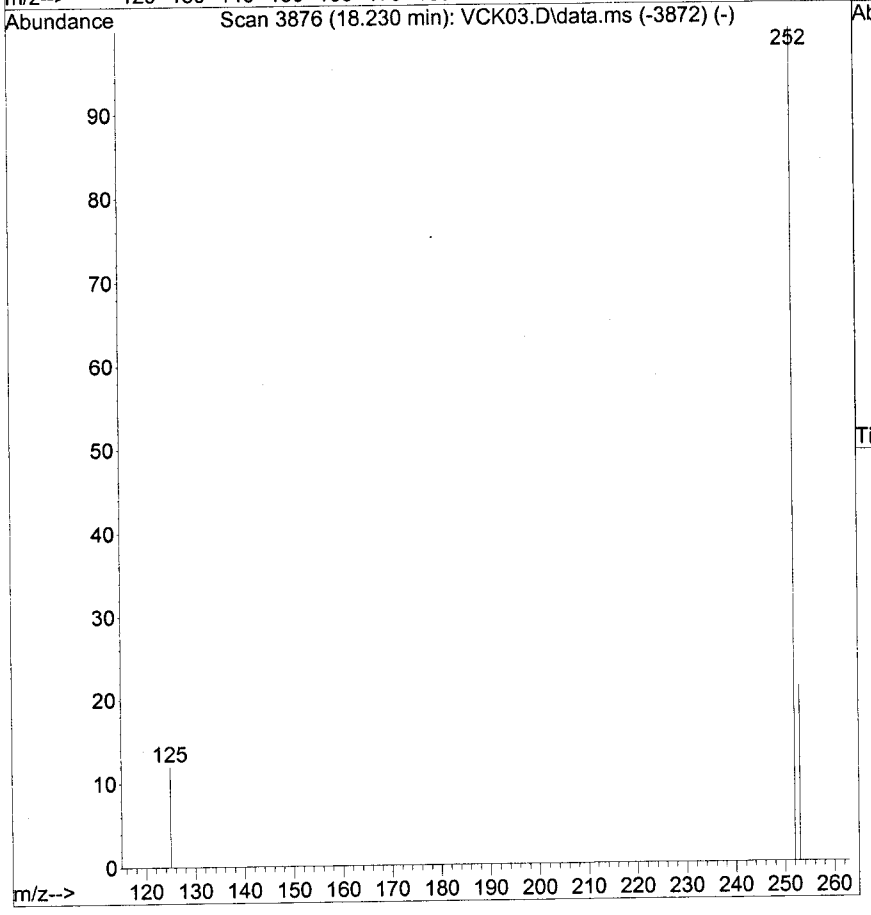
#24
Benzo(k)fluoranthene
Concen: 0.0027 ug/mL
RT: 18.230 min Scan# 3876
Delta R.T. 0.000 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

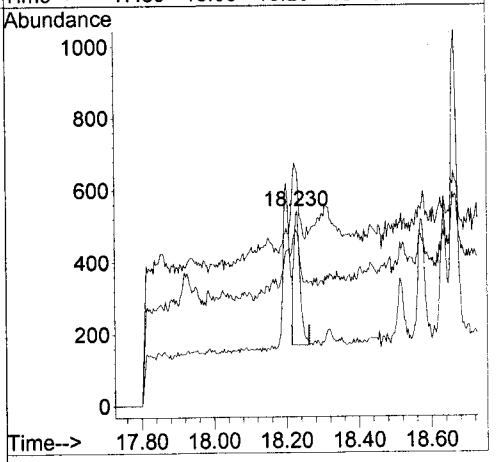
Tgt Ion:252 Resp: 425

Ion	Ratio	Lower	Upper
252	100		
253	88.9	1.1	41.1#
125	120.7	0.0	21.1#



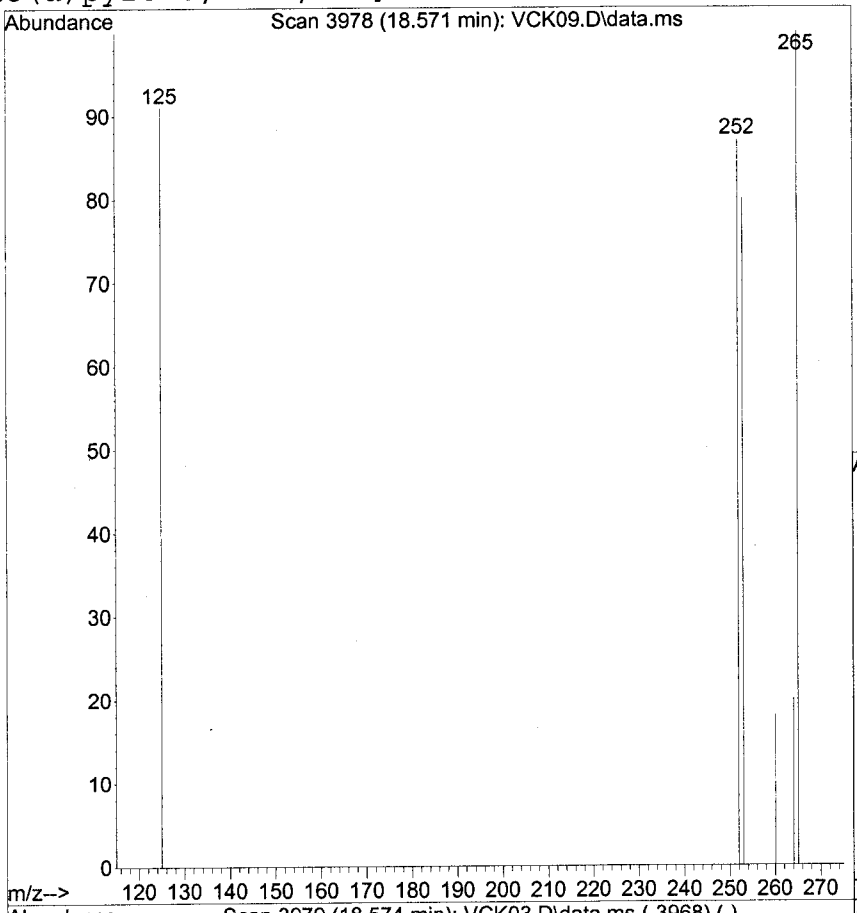
Ref





[Benzo(a)pyrene; <RL; u]

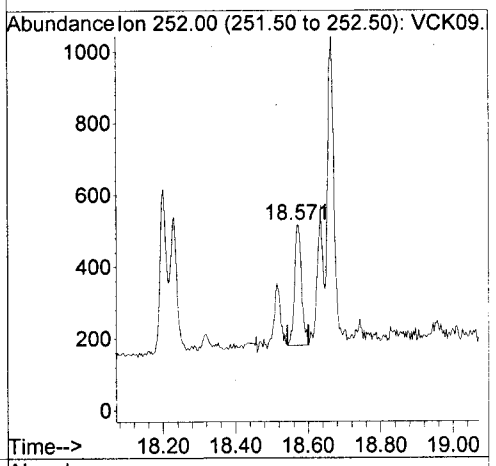
Raw



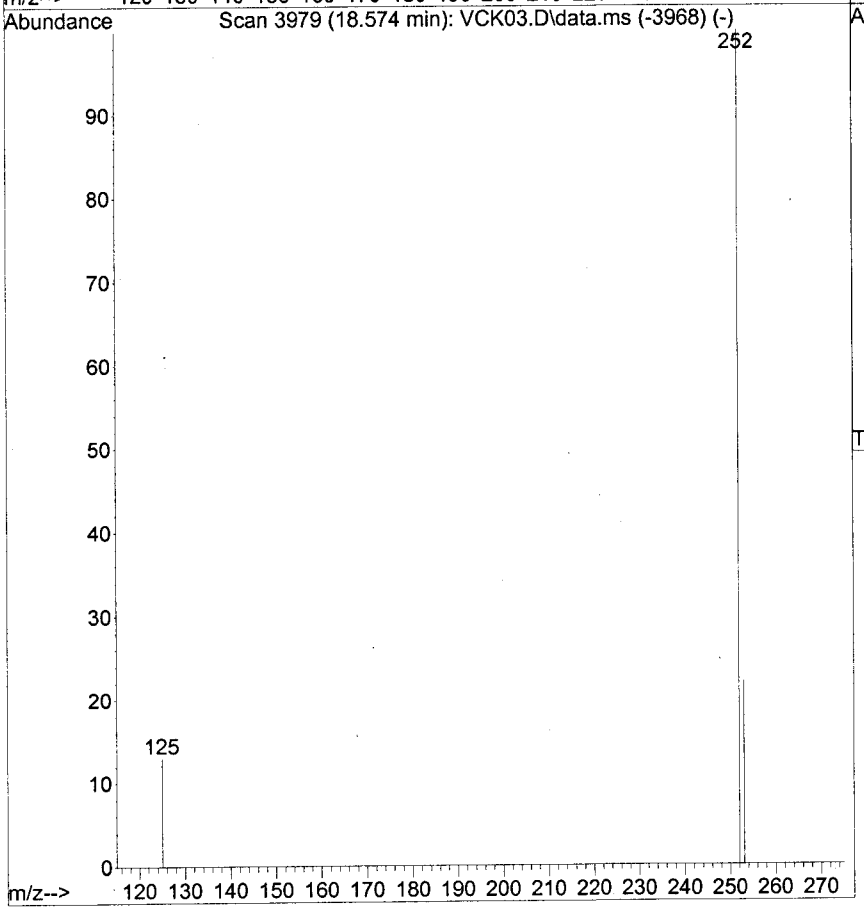
#25
Benzo(a)pyrene
Concen: 0.0033 ug/mL
RT: 18.571 min Scan# 3978
Delta R.T. -0.003 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

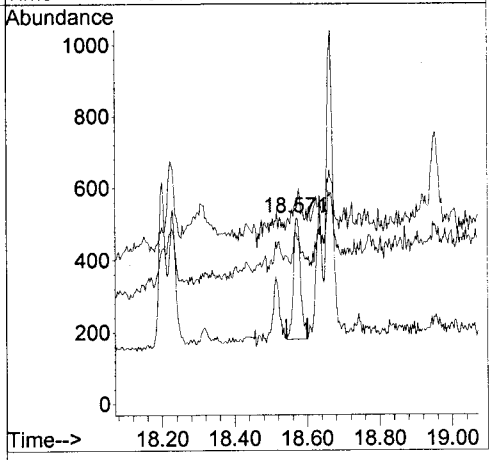
Tgt Ion:252 Resp: 448

Ion	Ratio	Lower	Upper
252	100		
253	91.9	3.4	43.4#
125	104.6	0.0	20.9#



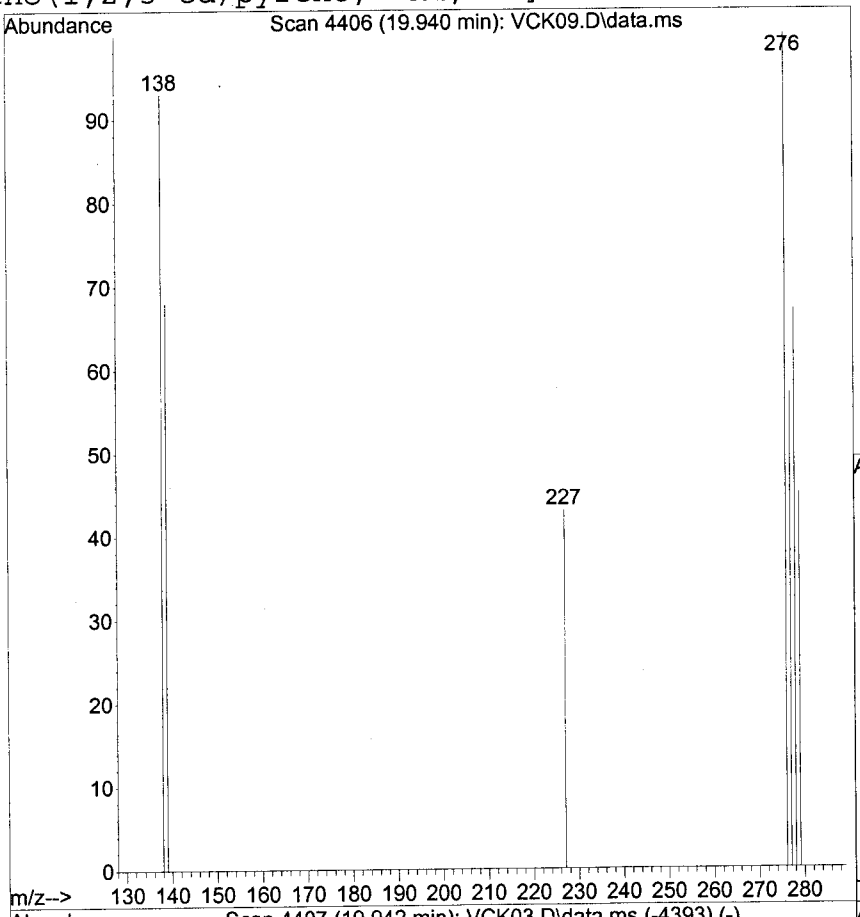
Ref





[Indeno(1,2,3-cd)pyrene; <RL; u]

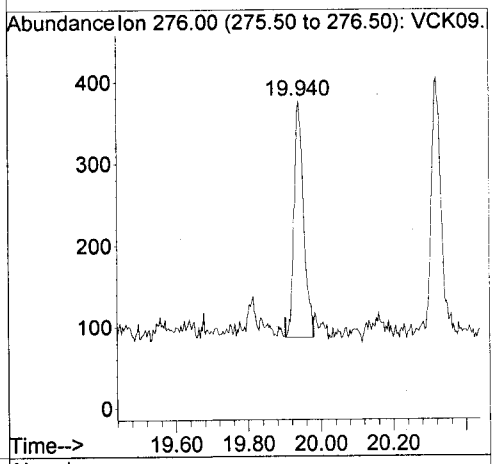
Raw



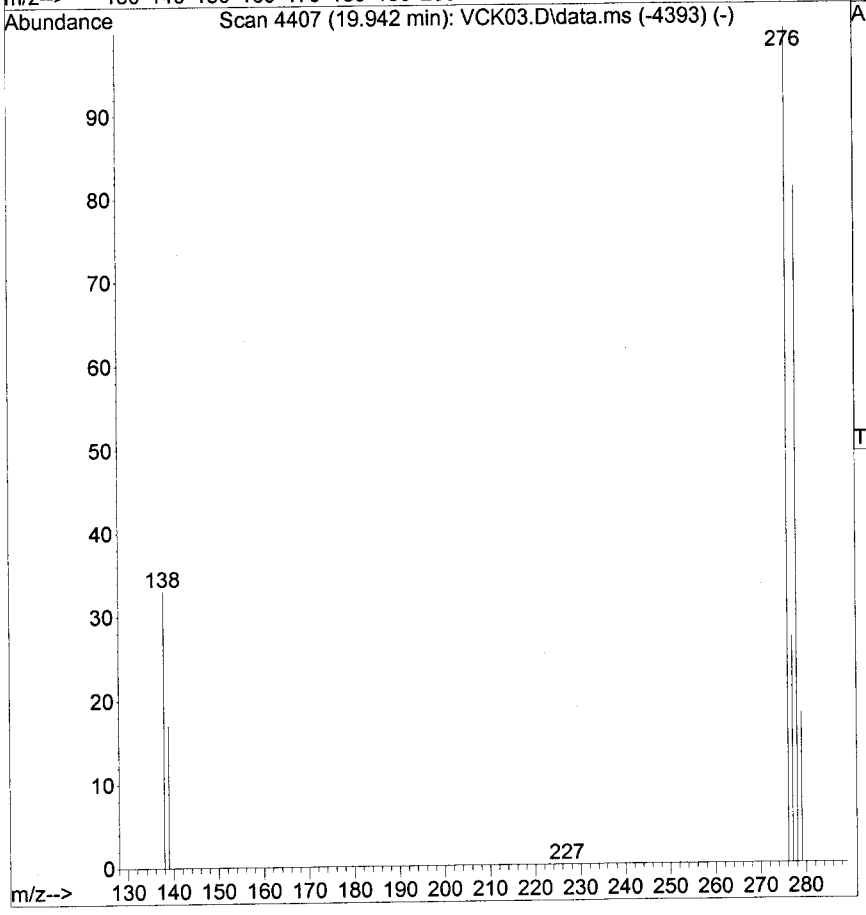
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0050 ug/mL
RT: 19.940 min Scan# 4406
Delta R.T. -0.002 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

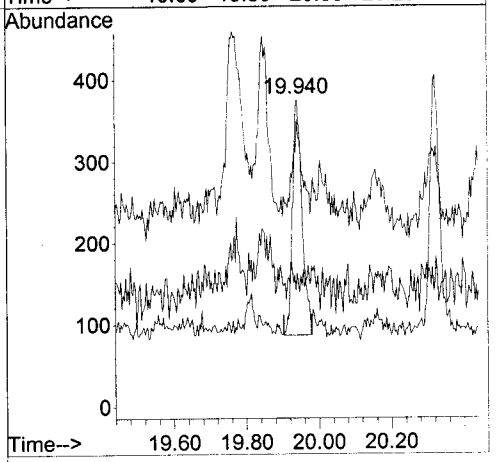
Tgt Ion:276 Resp: 527

Ion	Ratio	Lower	Upper
276	100		
138	93.4	0.0	23.1#
227	43.0	0.0	21.0#



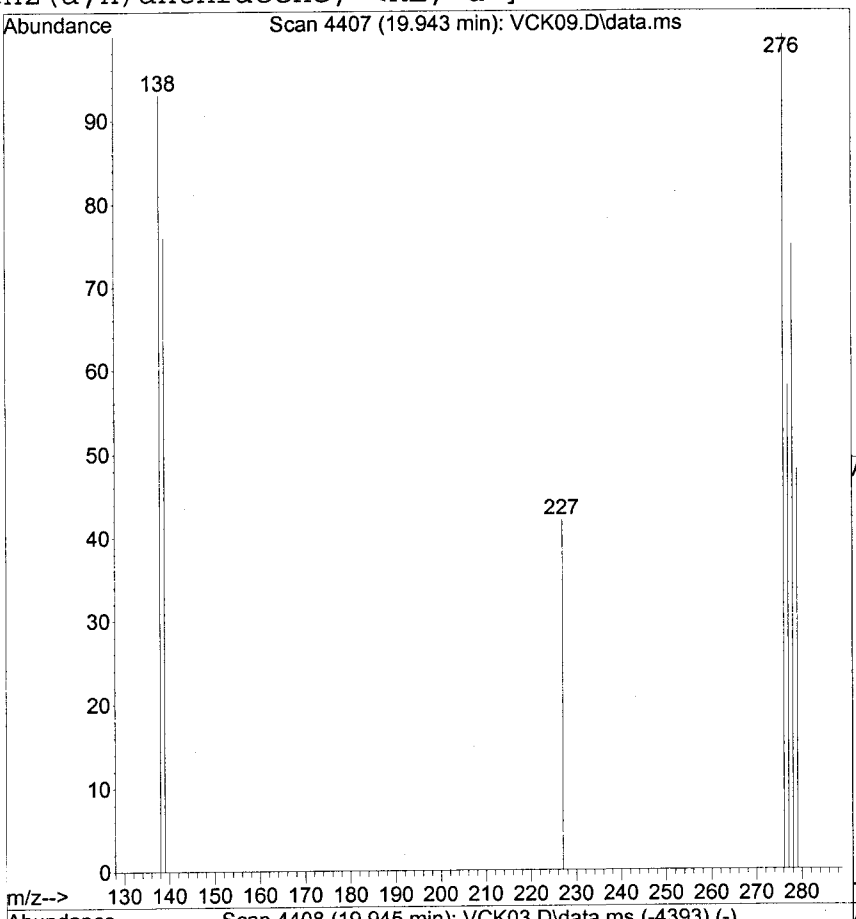
Ref





[Dibenz(a,h)anthracene; <RL; u]

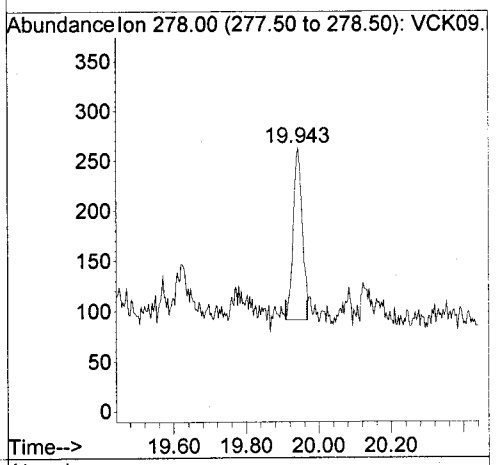
Raw



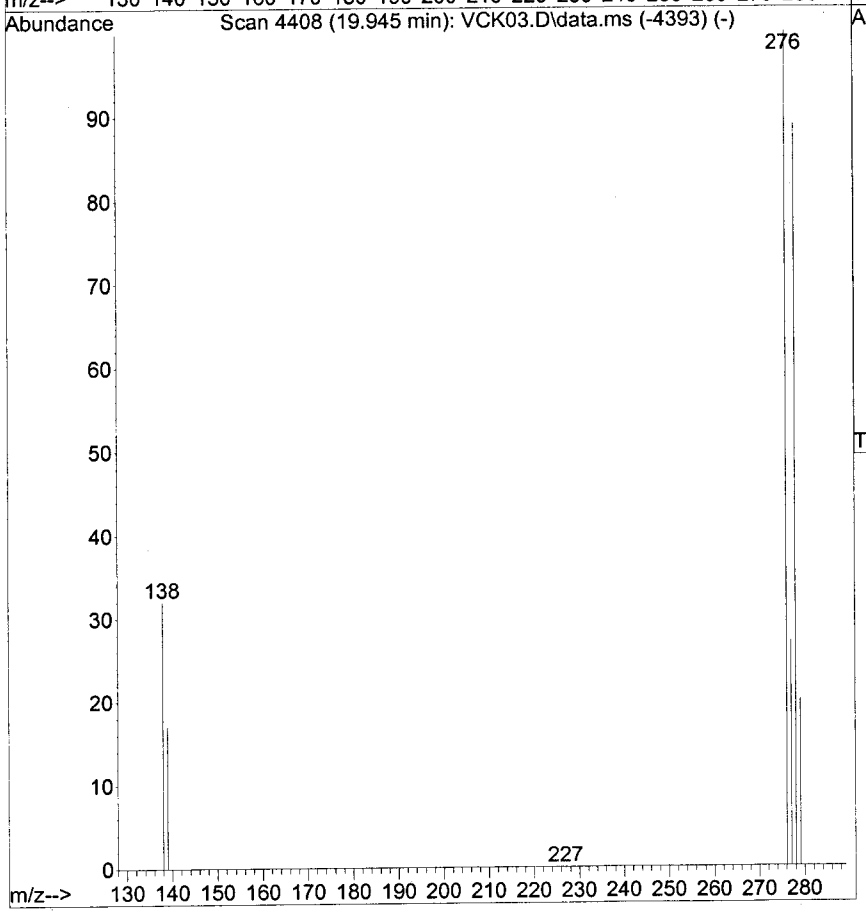
#27
Dibenz(a,h)anthracene
Concen: 0.0034 ug/mL
RT: 19.943 min Scan# 4407
Delta R.T. -0.002 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

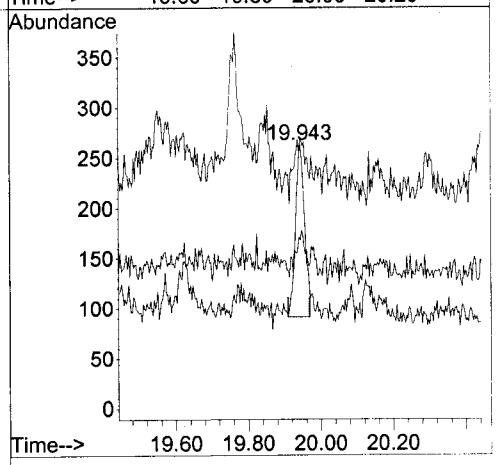
Tgt Ion:278 Resp: 300

Ion	Ratio	Lower	Upper
278	100		
139	102.7	0.0	22.2#
279	63.9	0.7	40.7#



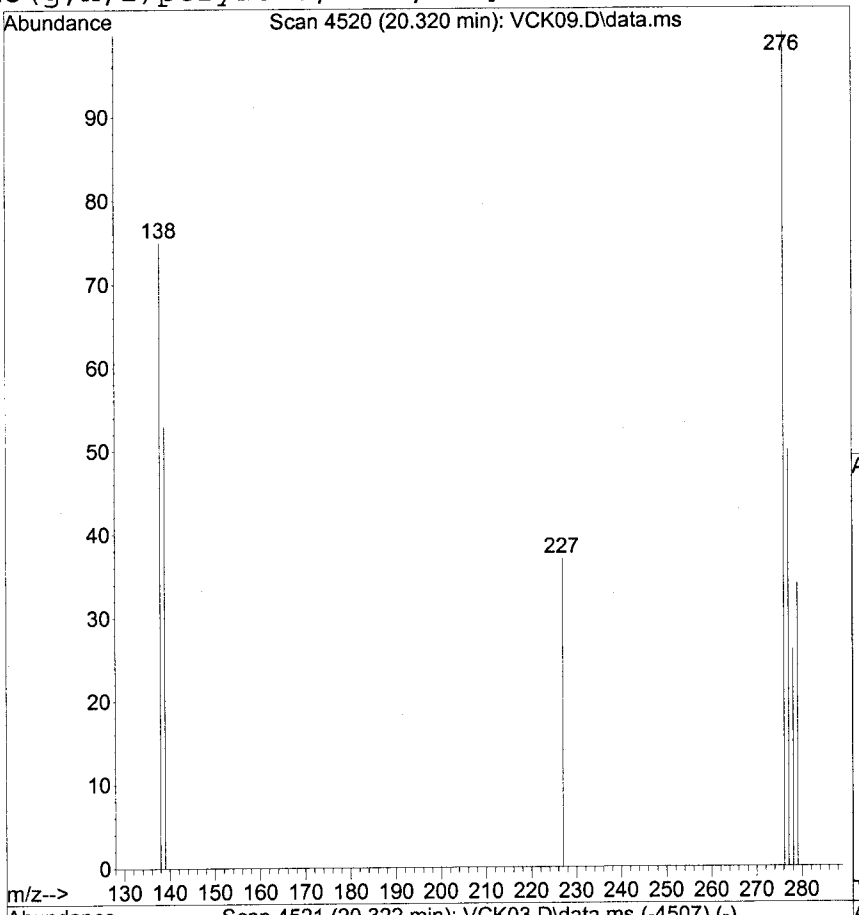
Ref





[Benzo(g,h,i)perylene; <RL; u]

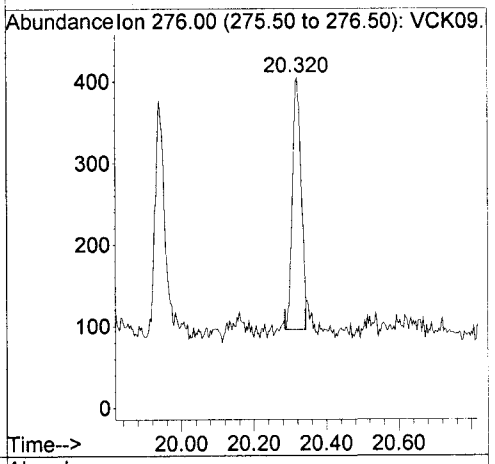
Raw



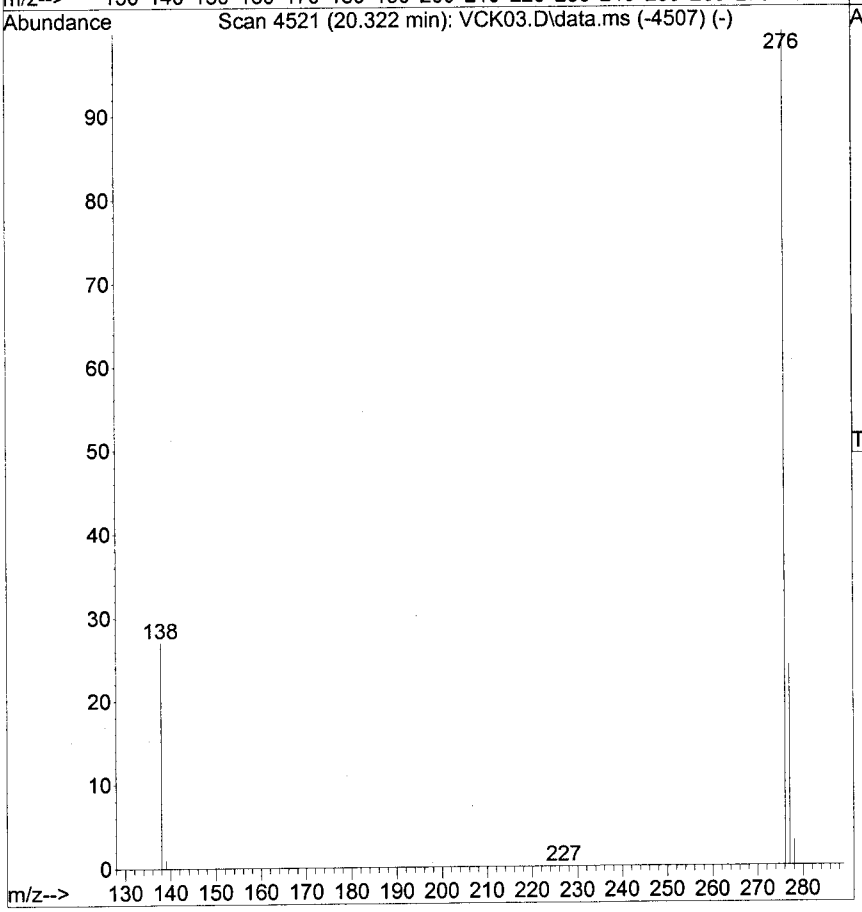
#28
Benzo(g,h,i)perylene
Concen: 0.0059 ug/mL
RT: 20.320 min Scan# 4520
Delta R.T. -0.002 min
Lab File: VCK09.D
Acq: 20 Mar 2008 11:58 am

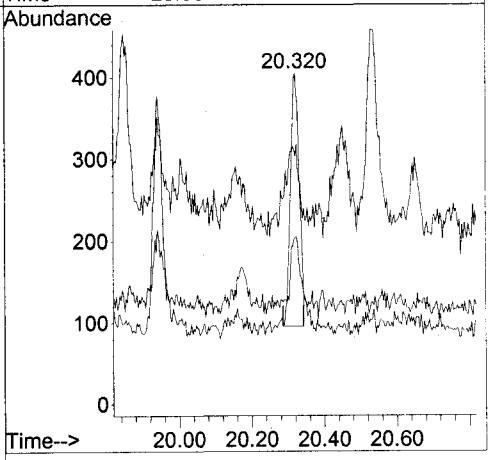
Tgt Ion:276 Resp: 520

Ion	Ratio	Lower	Upper
276	100		
138	74.8	0.0	22.1#
277	50.4	2.5	42.5#



Ref





CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst	: MSBNA03	Lab ID	: 202043-003	Client ID	: 1065EX309[6.5]
Seqnum	: 528115647010	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: vck10	Batch	: 136173	Time	: 20-MAR-2008 12:33
Cal	: 528107208001	Caldate	: 14-MAR-2008		
IDF	: 1.0	Raw Units	: ug/mL	Units	: ug/Kg

30.11 g --> 1.0 ml = 0.03321 ml/g PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.008600	ND	5.0		u
2-Methylnaphthalene	0.006200	ND	5.0		u
Acenaphthylene	0.001000	ND	5.0		u
Acenaphthene	0.005500	ND	5.0		u
Fluorene	0.01160	ND	5.0		u
Phenanthrene	0.03120	1.0 J	5.0		u
Anthracene	0.003400	ND	5.0		u
Fluoranthene	0.02000	ND	5.0		u
Pyrene	0.02800	0.93 J	5.0		u
Benzo(a)anthracene	0.01010	ND	5.0		u
Chrysene	0.009000	ND	5.0		u
Benzo(b)fluoranthene	0.004100	ND	5.0		u
Benzo(k)fluoranthene	0.004100	ND	5.0		u
Benzo(a)pyrene	0.002800	ND	5.0		u
Indeno(1,2,3-cd)pyrene	0.002200	ND	5.0		u
Dibenz(a,h)anthracene	0	ND	5.0		u
Benzo(g,h,i)perylene	0.003800	ND	5.0		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8994	33.21	29.87	90	23-120	u
2-Fluorobiphenyl	0.8680	33.21	28.83	87	30-115	u
Terphenyl-d14	0.8735	33.21	29.01	87	18-137	u

ISTD (CCV vck03)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE R	Drift
Naphthalene-d8	128478	99552	-22.51	9.20	9.20	0.00
Acenaphthene-d10	89562	68809	-23.17	11.51	11.50	-0.01
Phenanthrene-d10	151421	129468	-14.50	13.45	13.45	0.00
Chrysene-d12	155293	116519	-24.97	16.91	16.90	-0.01
Perylene-d12	140300	114672	-18.27	18.64	18.63	-0.01

LLH 03/20/08 [Benzo(k)fluoranthene]: Still <RL after manual integration.

LLH: 03/20/08 JAJ: 03/20/08 EAH: 03/21/08

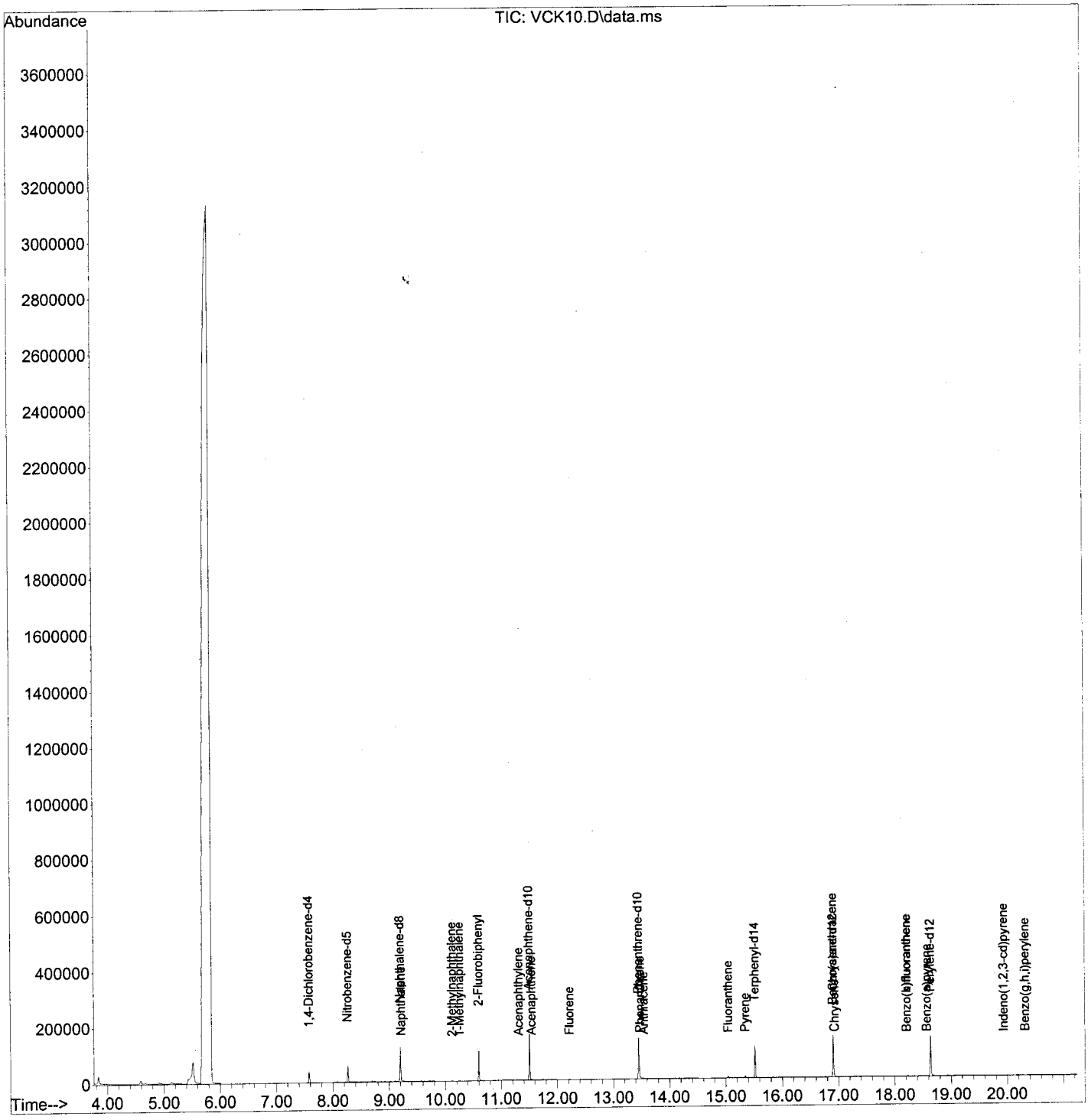
u=use

528115647010

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : VCK10.D
Acq On : 20 Mar 2008 12:33 pm
Operator :
Sample : S,202043-003
Misc : 136173,1,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 20 13:56:00 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : VCK10.D
Acq On : 20 Mar 2008 12:33 pm
Operator :
Sample : S,202043-003
Misc : 136173,1,
ALS Vial : 9 Sample Multiplier: 1

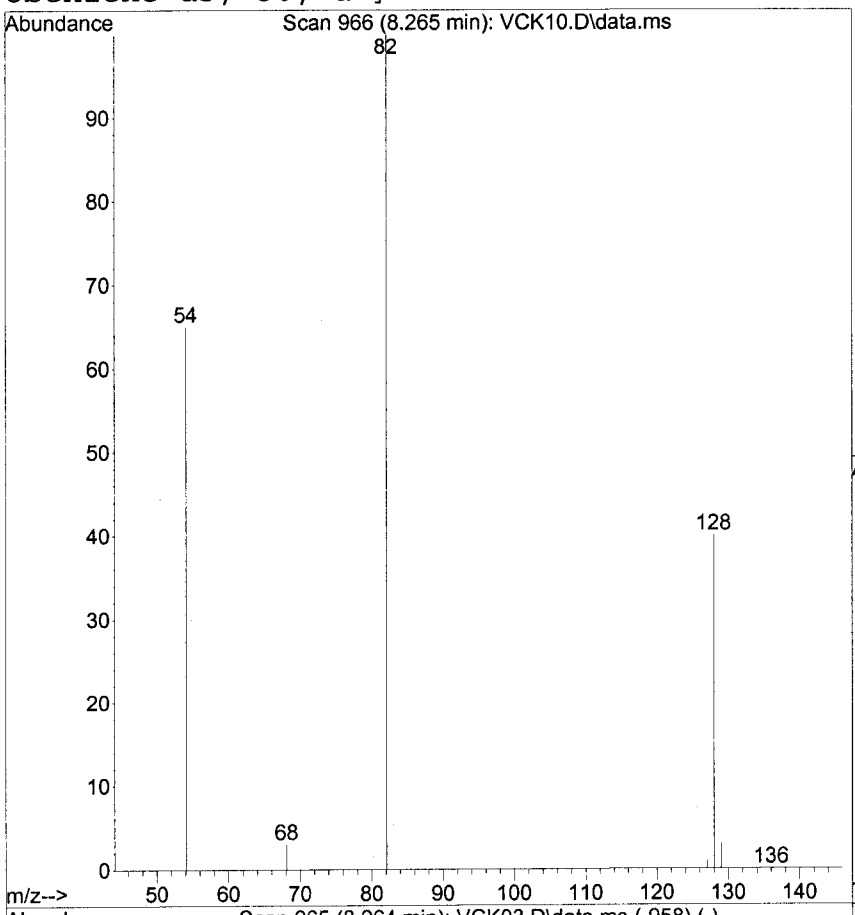
Quant Time: Mar 20 13:56:00 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.578	152	27856	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.202	136	99552	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.502	164	68809	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.450	188	129468	1.0000	ug/mL	0.00
17) Chrysene-d12	16.903	240	116519	1.0000	ug/mL	0.00
22) Perylene-d12	18.632	264	114672	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.		
4) Nitrobenzene-d5	8.265	82	25723	0.8994	ug/mL	85
5) Naphthalene	9.226	128	956	0.0086	ug/mL	# 31
6) 2-Methylnaphthalene	10.125	142	470	0.0062	ug/mL	99
7) 1-Methylnaphthalene	10.256	142	334	0.0042	ug/mL	96
9) 2-Fluorobiphenyl	10.597	172	78264	0.8680	ug/mL	99
10) Acenaphthylene	11.317	152	111	0.0010	ug/mL	# 3
11) Acenaphthene	11.544	154	403	0.0055	ug/mL	92
12) Fluorene	12.219	166	1046	0.0116	ug/mL	97
14) Phenanthrene	13.481	178	4766	0.0312	ug/mL	98
15) Anthracene	13.547	178	486	0.0034	ug/mL	77
16) Fluoranthene	15.043	202	3189	0.0200	ug/mL	92
18) Pyrene	15.344	202	4464	0.0280	ug/mL	97
19) Terphenyl-d14	15.516	244	100653	0.8735	ug/mL	83
20) Benzo(a)anthracene	16.888	228	1374	0.0101	ug/mL	91
21) Chrysene	16.936	228	1276	0.0090	ug/mL	93
23) Benzo(b)fluoranthene	18.203	252	641	0.0041	ug/mL	# 1
24) Benzo(k)fluoranthene	18.203	252	641	0.0041	ug/mL	# 1
25) Benzo(a)pyrene	18.569	252	373	0.0028	ug/mL	# 1
26) Indeno(1,2,3-cd)pyrene	19.939	276	233	0.0022	ug/mL	# 1
27) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
28) Benzo(g,h,i)perylene	20.315	276	335	0.0038	ug/mL	# 17

(#) = qualifier out of range (m) = manual integration (+) = signals summed

[Nitrobenzene-d5; 30; u]

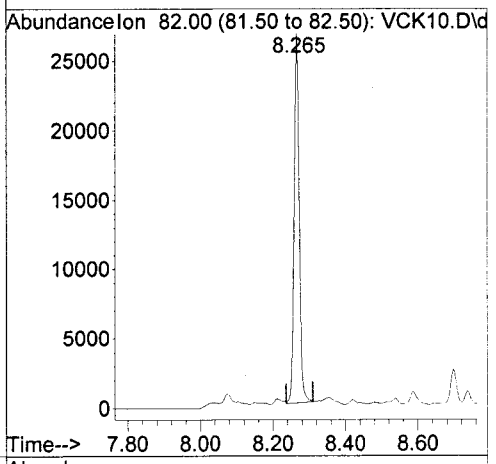
Raw



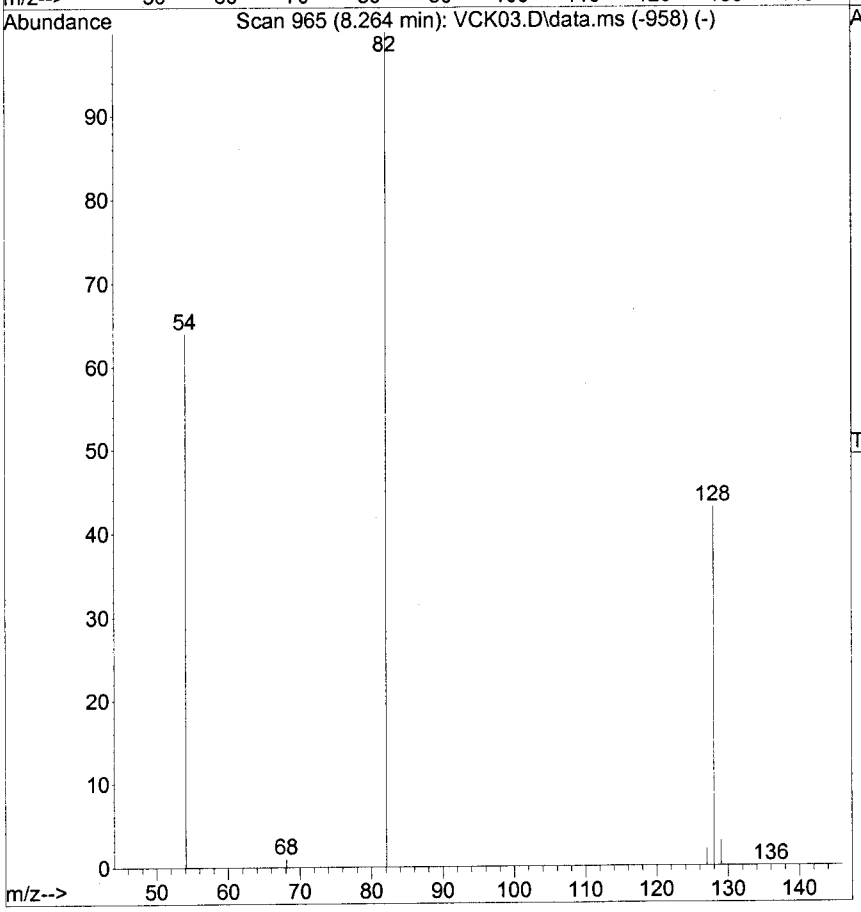
#4
Nitrobenzene-d5
Concen: 0.8994 ug/mL
RT: 8.265 min Scan# 966
Delta R.T. 0.001 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

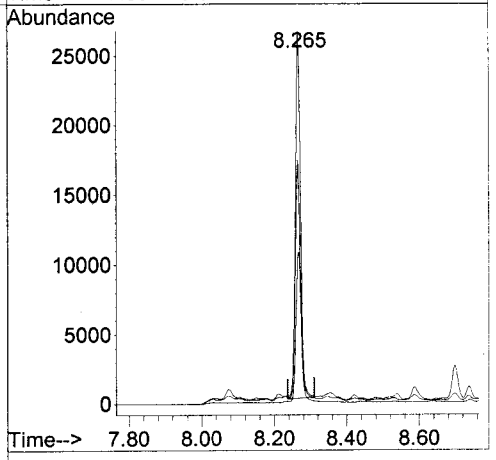
Tgt Ion: 82 Resp: 25723

Ion	Ratio	Lower	Upper
82	100		
128	40.2	10.5	50.5
54	64.8	56.2	96.2



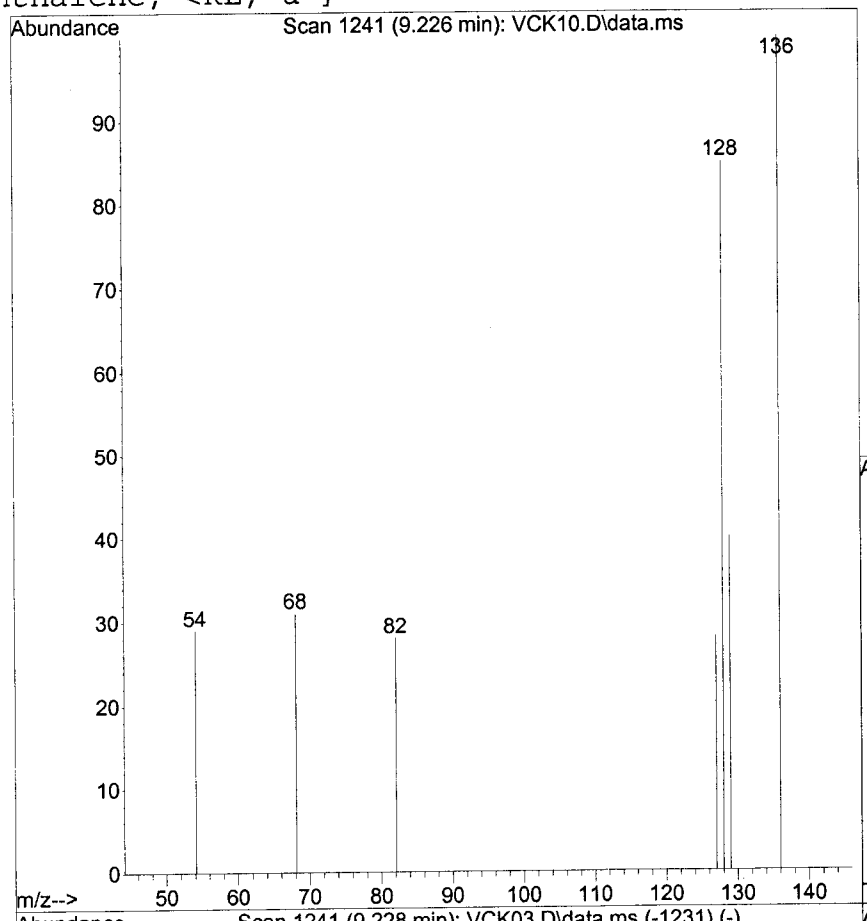
Ref





[Naphthalene; <RL; u]

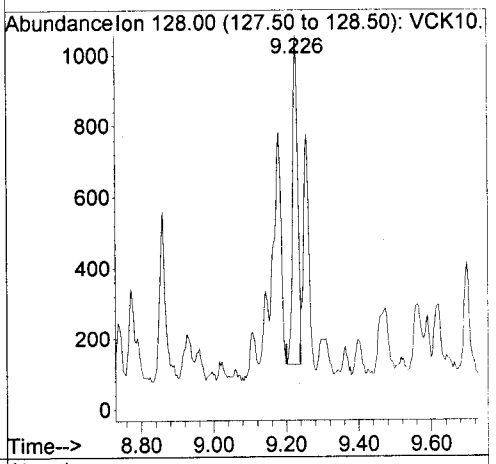
Raw



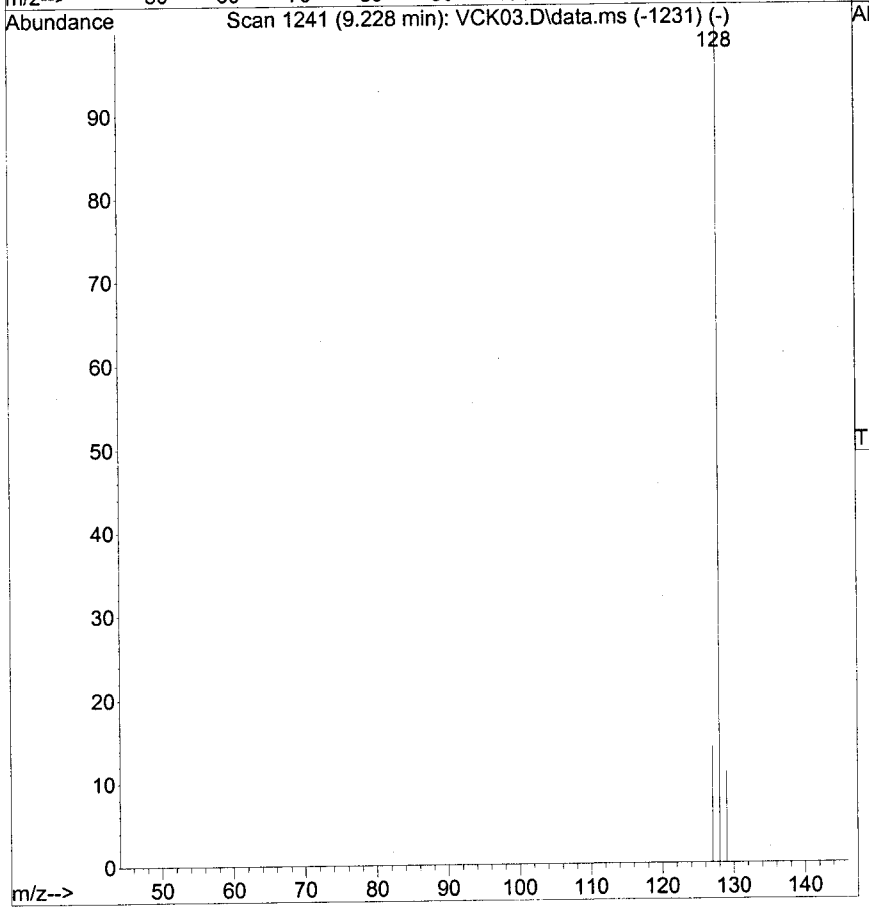
#5
Naphthalene
Concen: 0.0086 ug/mL
RT: 9.226 min Scan# 1241
Delta R.T. -0.002 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

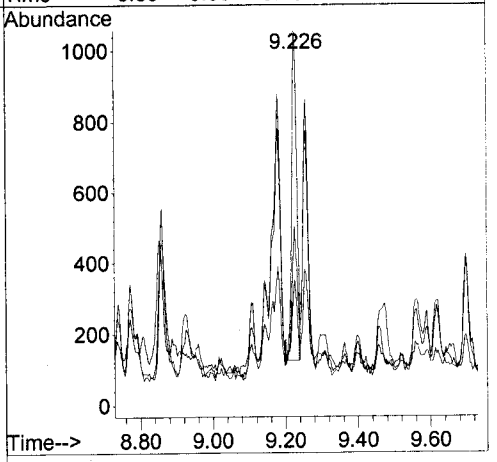
Tgt Ion:128 Resp: 956

Ion	Ratio	Lower	Upper
128	100		
129	47.4	0.0	31.1#
127	33.2	0.0	34.0



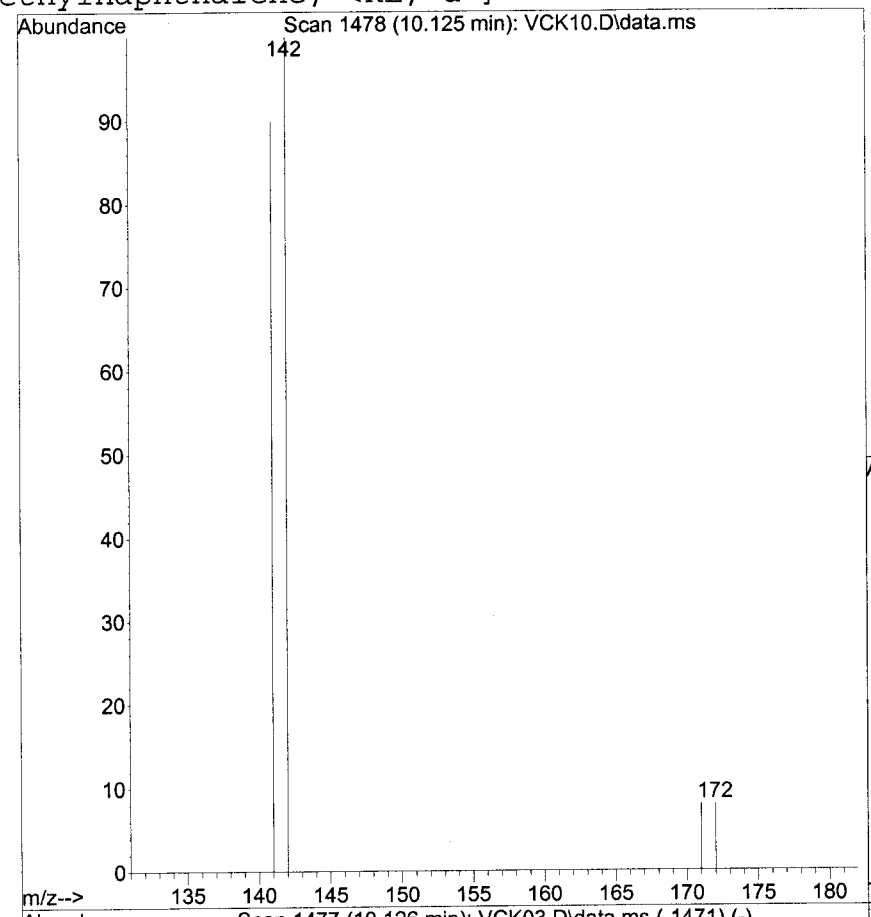
Ref





[2-Methylnaphthalene; <RL; u]

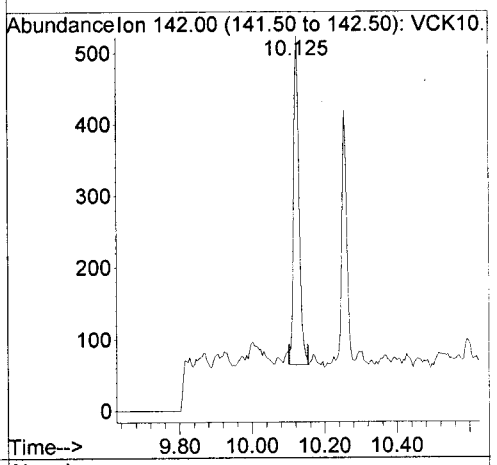
Raw



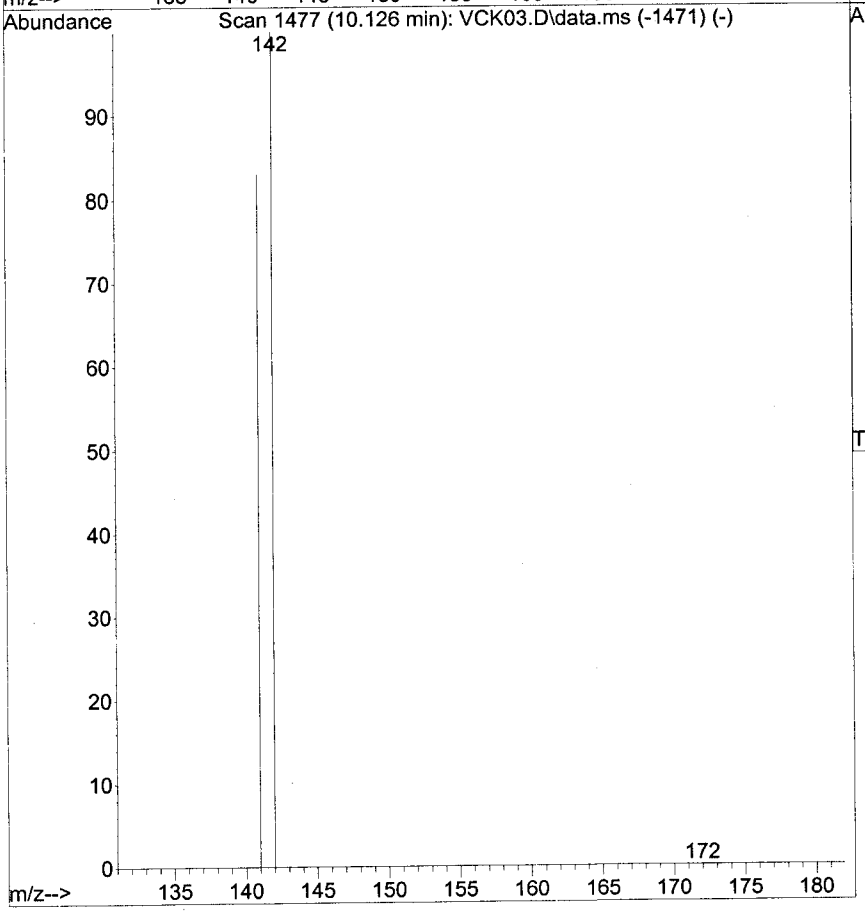
#6
2-Methylnaphthalene
Concen: 0.0062 ug/mL
RT: 10.125 min Scan# 1478
Delta R.T. -0.001 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

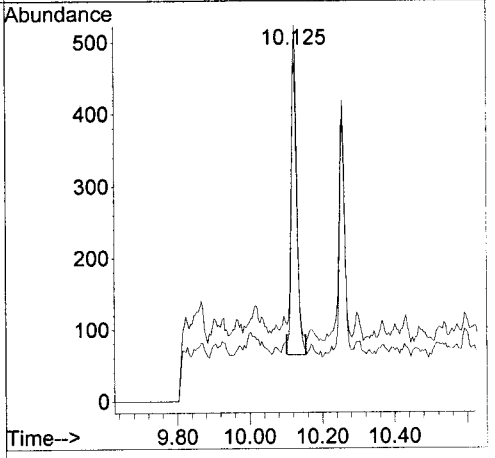
Tgt Ion:142 Resp: 470

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.3	111.3



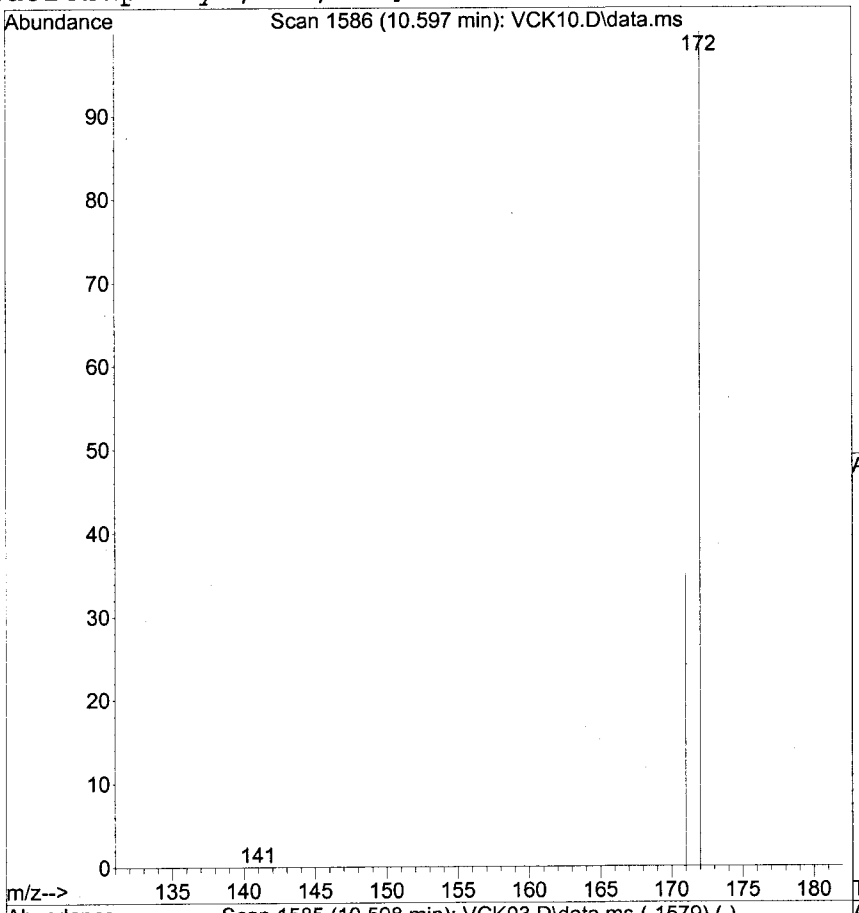
Ref





[2-Fluorobiphenyl; 29; u]

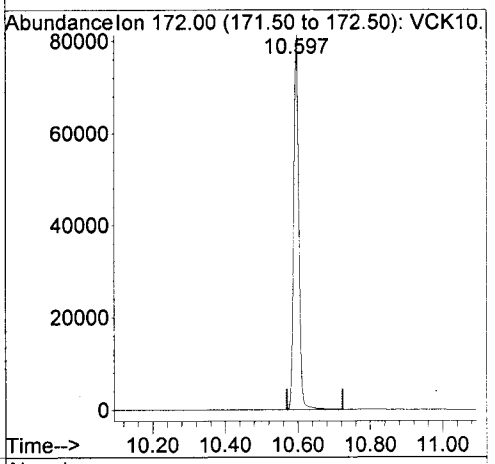
Raw



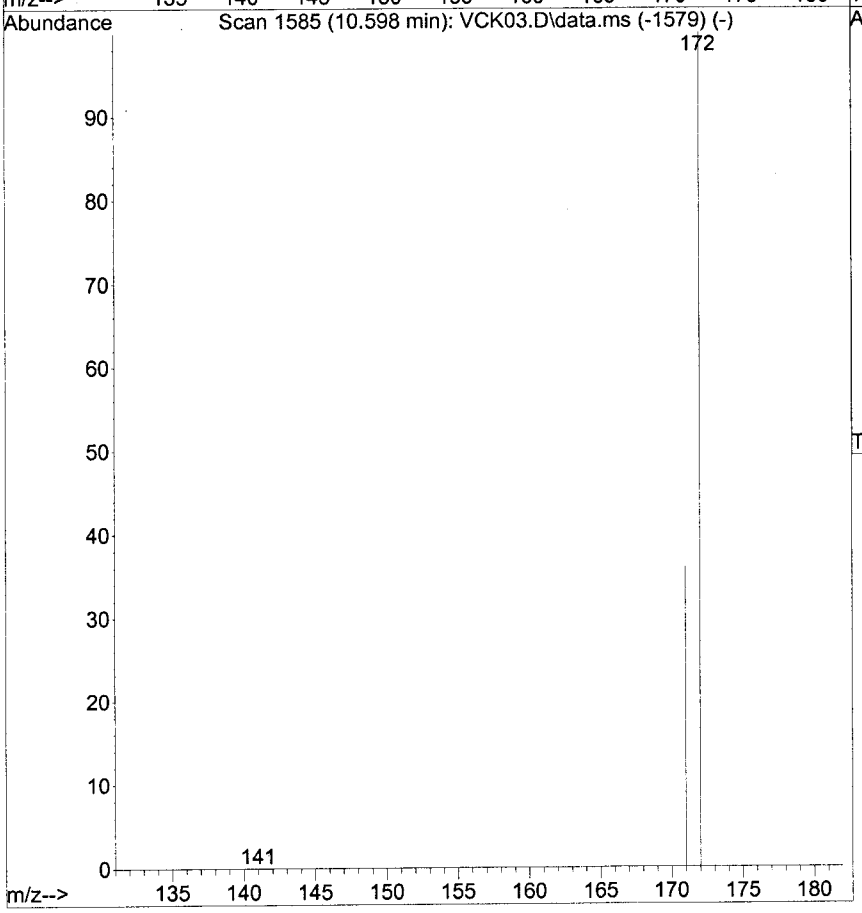
#9
2-Fluorobiphenyl
Concen: 0.8680 ug/mL
RT: 10.597 min Scan# 1586
Delta R.T. -0.001 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

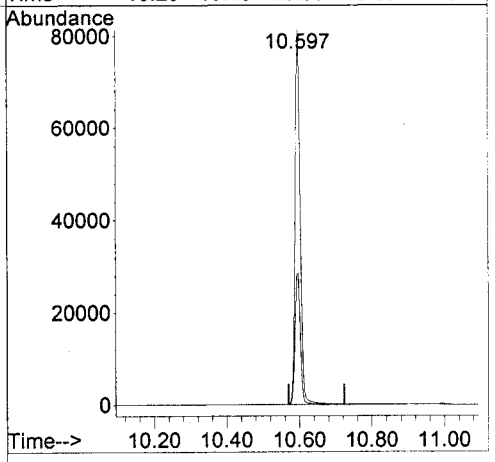
Tgt Ion:172 Resp: 78264

Ion	Ratio	Lower	Upper
172	100		
171	35.1	14.4	54.4



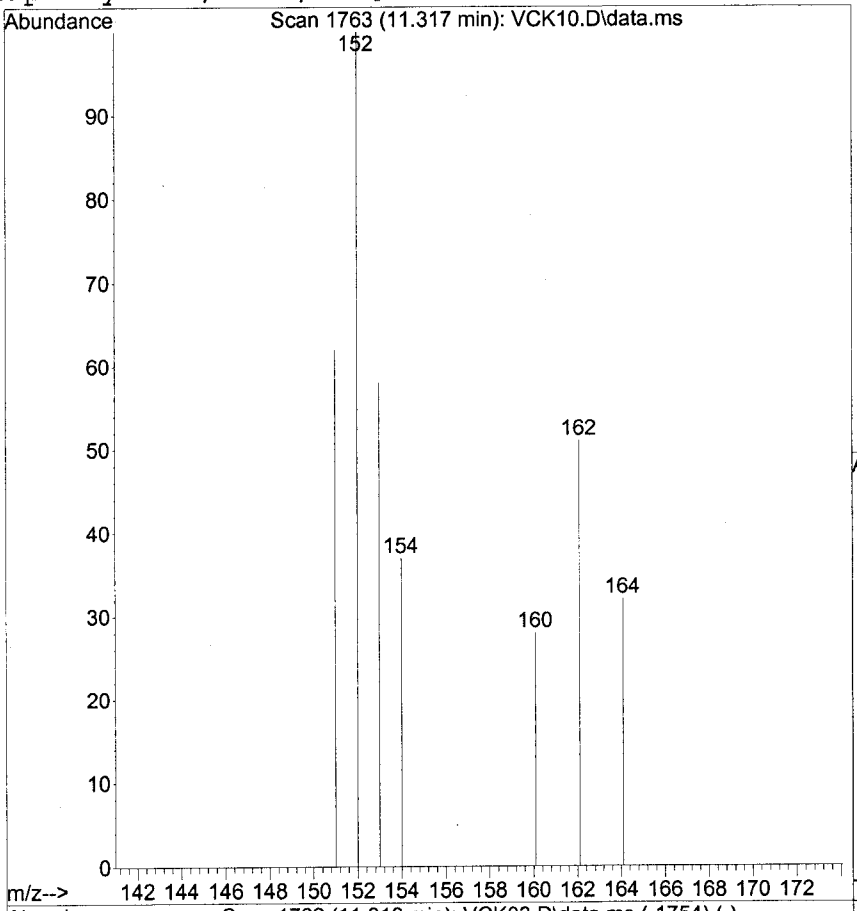
Ref





[Acenaphthylene; <RL; u]

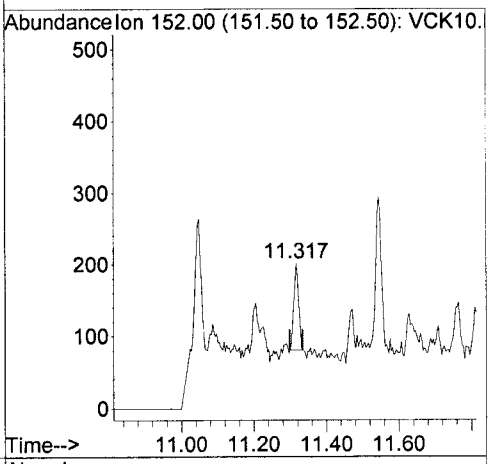
Raw



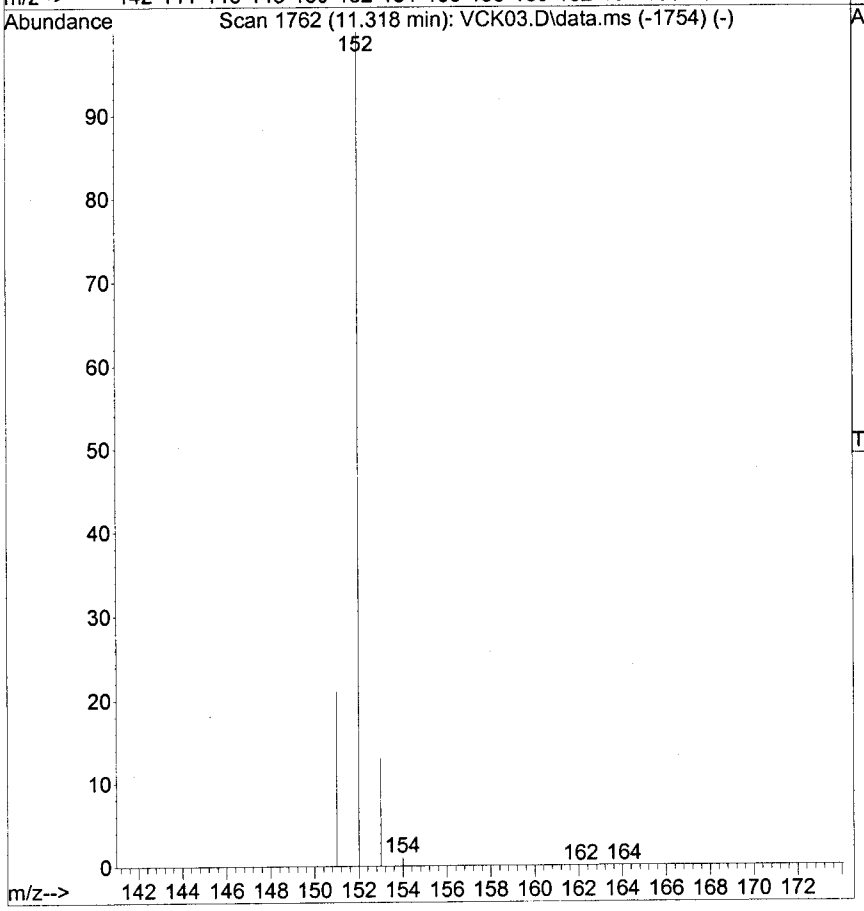
#10
Acenaphthylene
Concen: 0.0010 ug/mL
RT: 11.317 min Scan# 1763
Delta R.T. -0.001 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

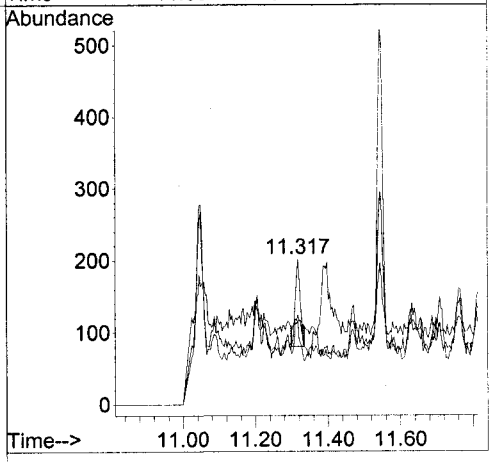
Tgt Ion:152 Resp: 111

Ion	Ratio	Lower	Upper
152	100		
151	61.9	1.0	41.0#
153	57.9	0.0	33.1#



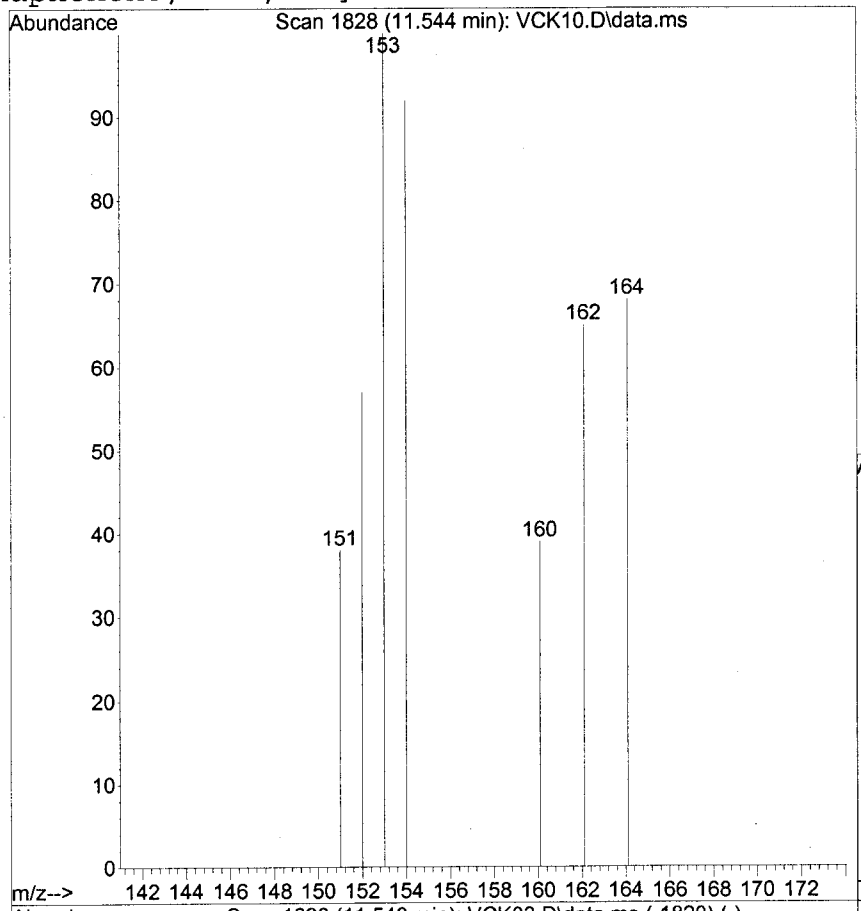
Ref





[Acenaphthene; <RL; u]

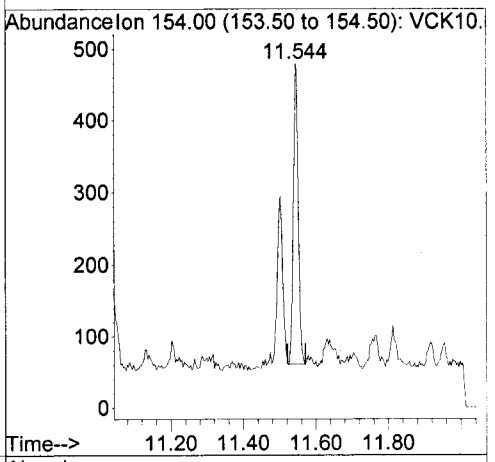
Raw



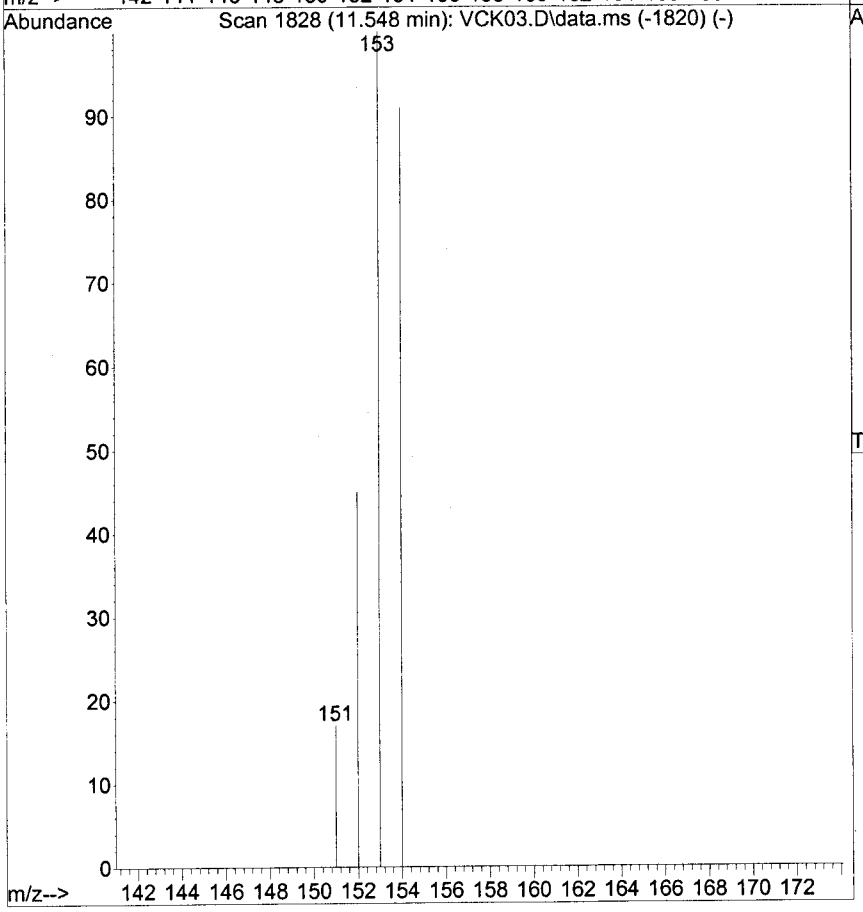
#11
Acenaphthene
Concen: 0.0055 ug/mL
RT: 11.544 min Scan# 1828
Delta R.T. -0.004 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

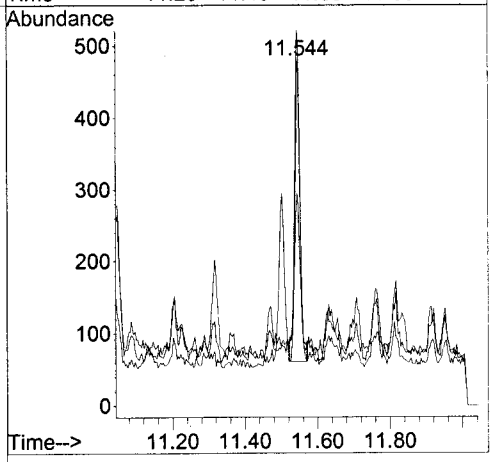
Tgt Ion:154 Resp: 403

Ion	Ratio	Lower	Upper
154	100		
152	61.5	35.4	75.4
153	108.7	96.8	136.8



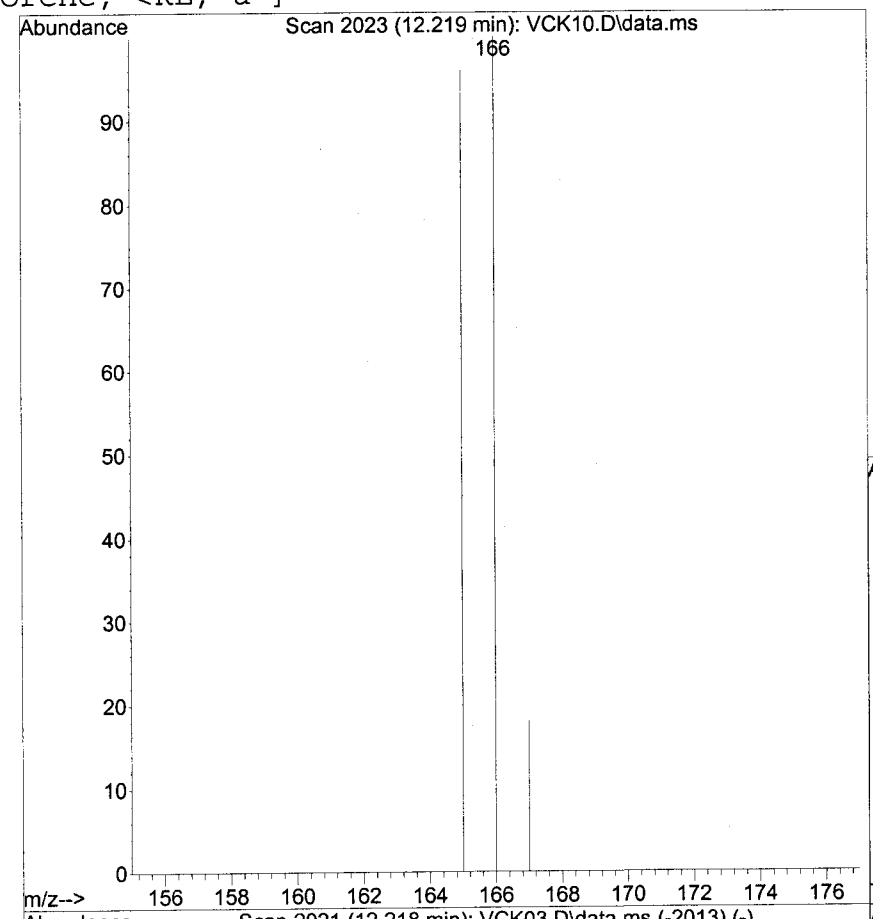
Ref





[Fluorene; <RL; u]

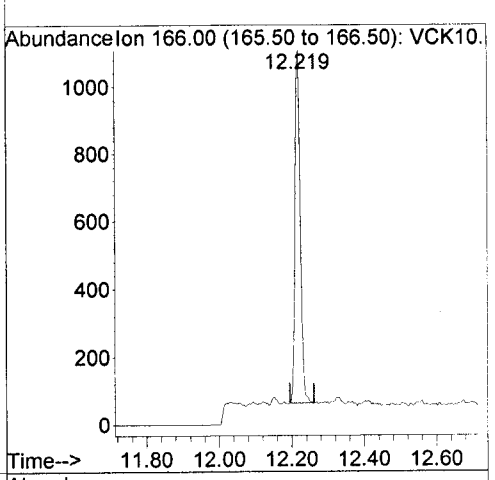
Raw



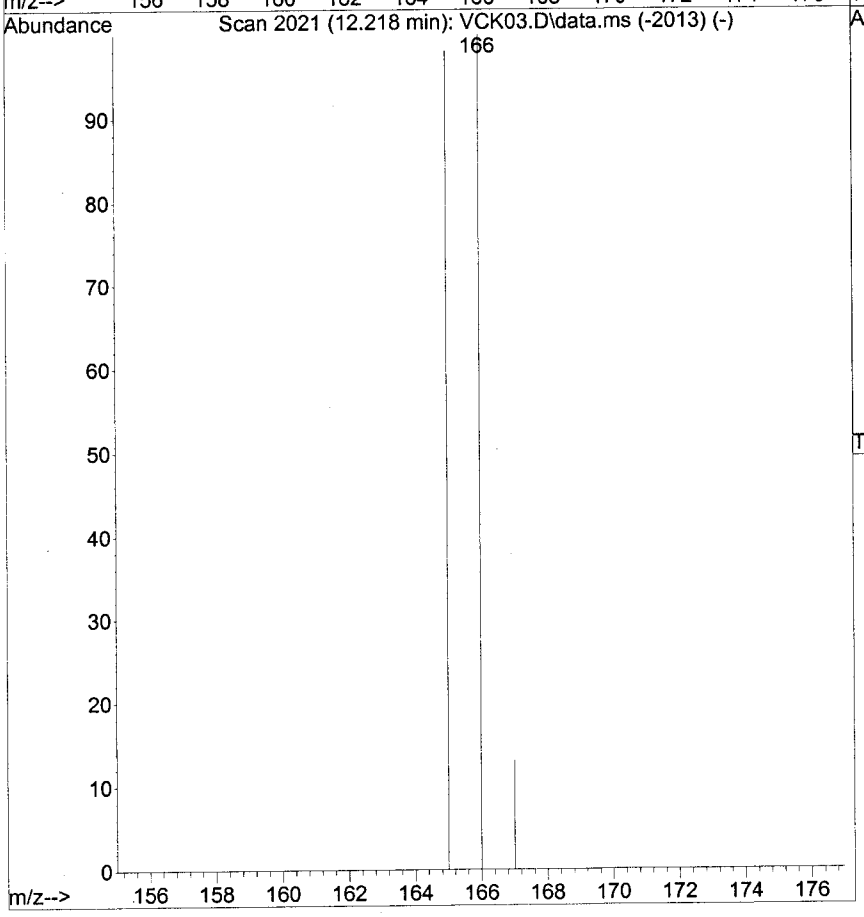
#12
Fluorene
Concen: 0.0116 ug/mL
RT: 12.219 min Scan# 2023
Delta R.T. 0.001 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

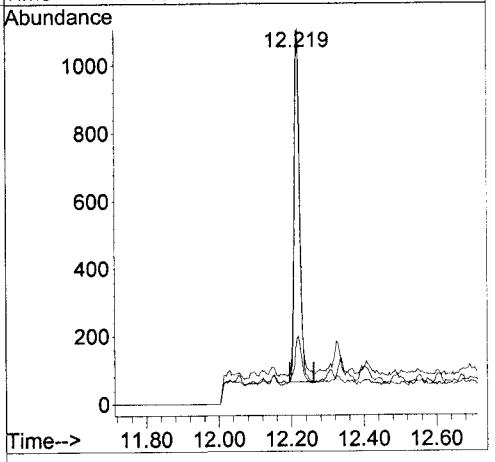
Tgt Ion:166 Resp: 1046

Ion	Ratio	Lower	Upper
166	100		
165	96.4	74.9	114.9
167	18.0	0.0	33.9



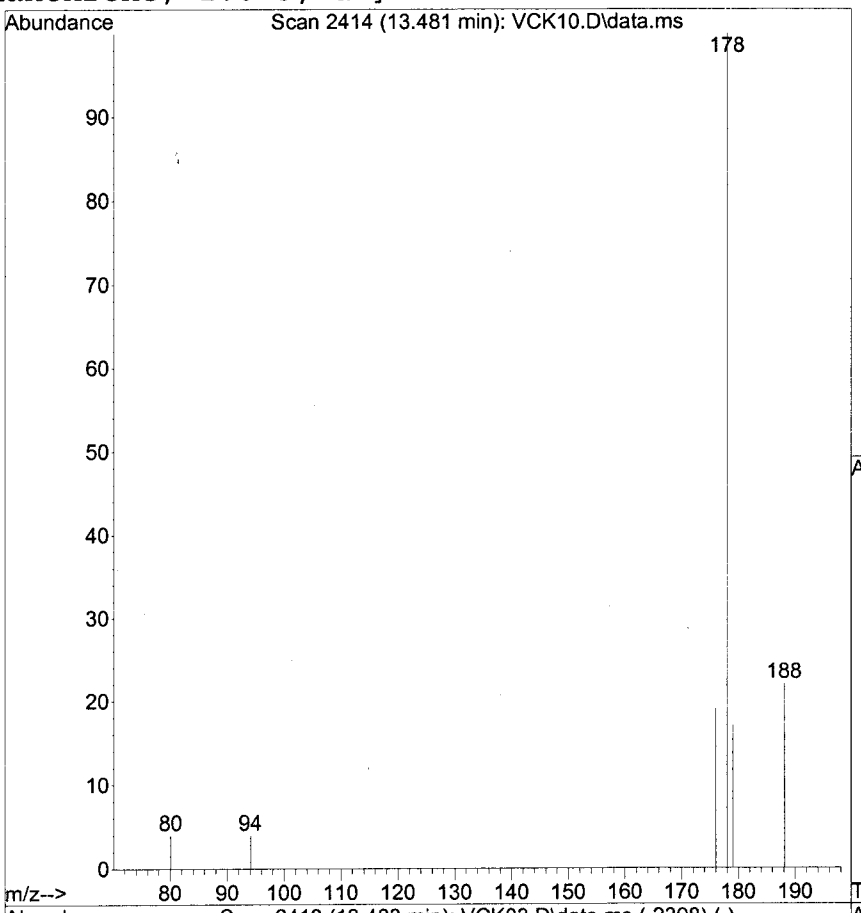
Ref





[Phenanthrene; 1.0 J; u]

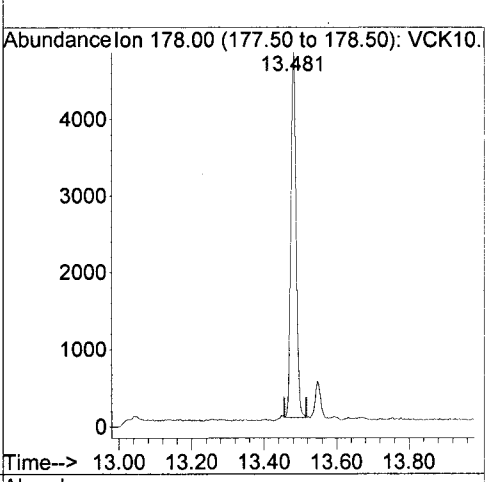
Raw



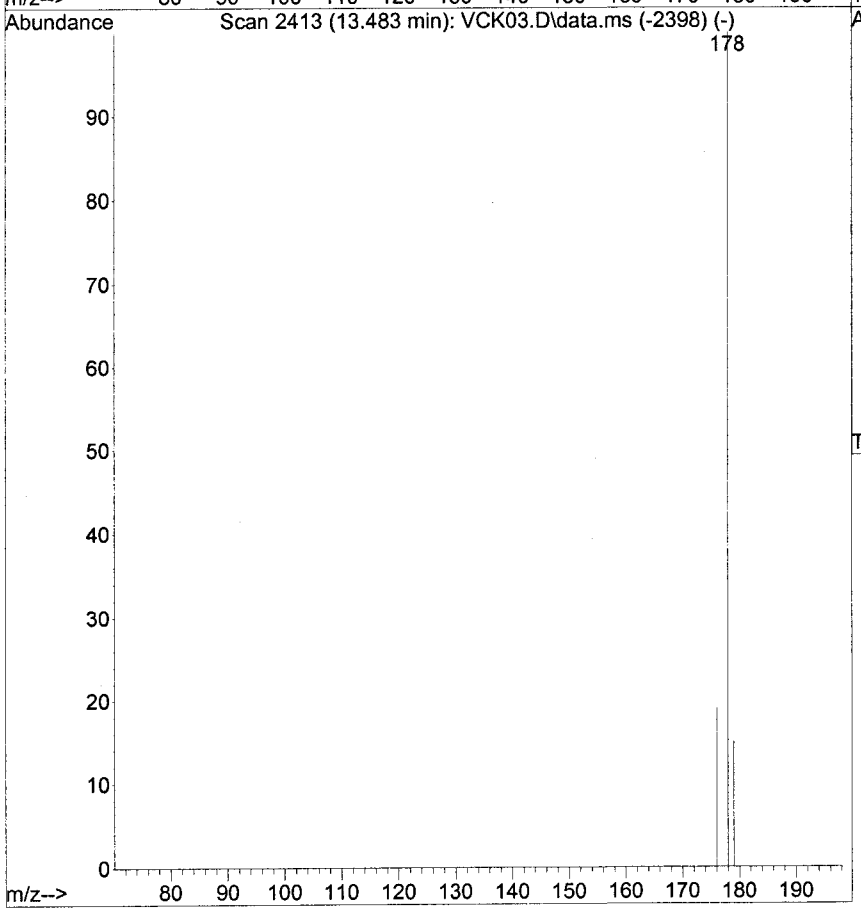
#14
Phenanthrene
Concen: 0.0312 ug/mL
RT: 13.481 min Scan# 2414
Delta R.T. -0.002 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

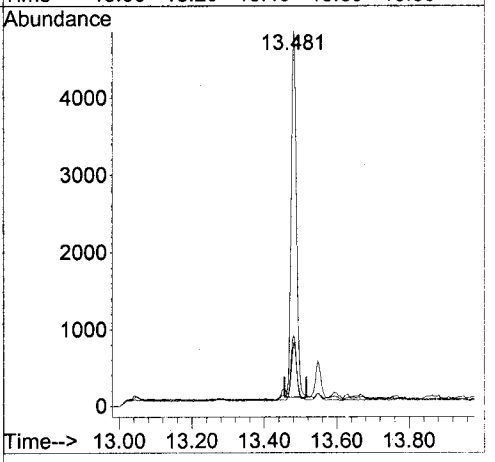
Tgt Ion:178 Resp: 4766

Ion	Ratio	Lower	Upper
178	100		
179	17.0	0.0	35.0
176	18.8	0.0	38.9



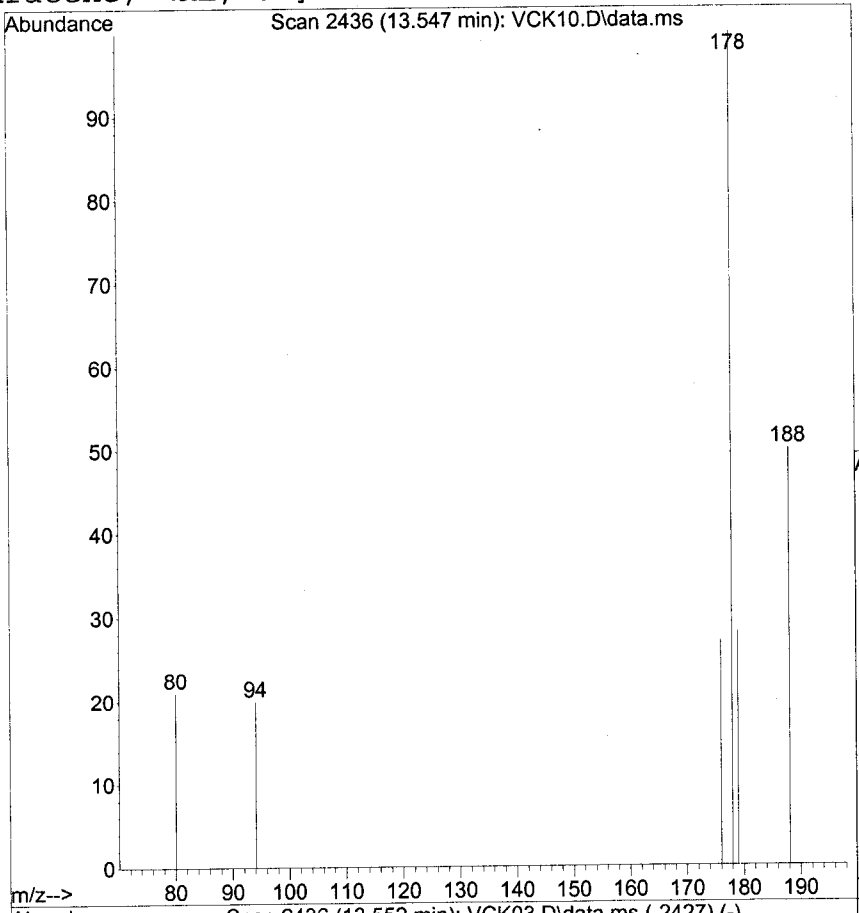
Ref





[Anthracene; <RL; u]

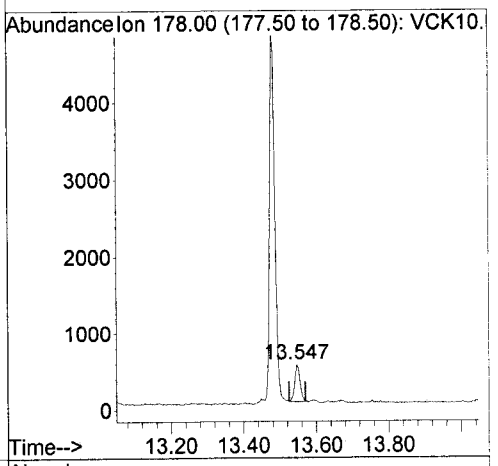
Raw



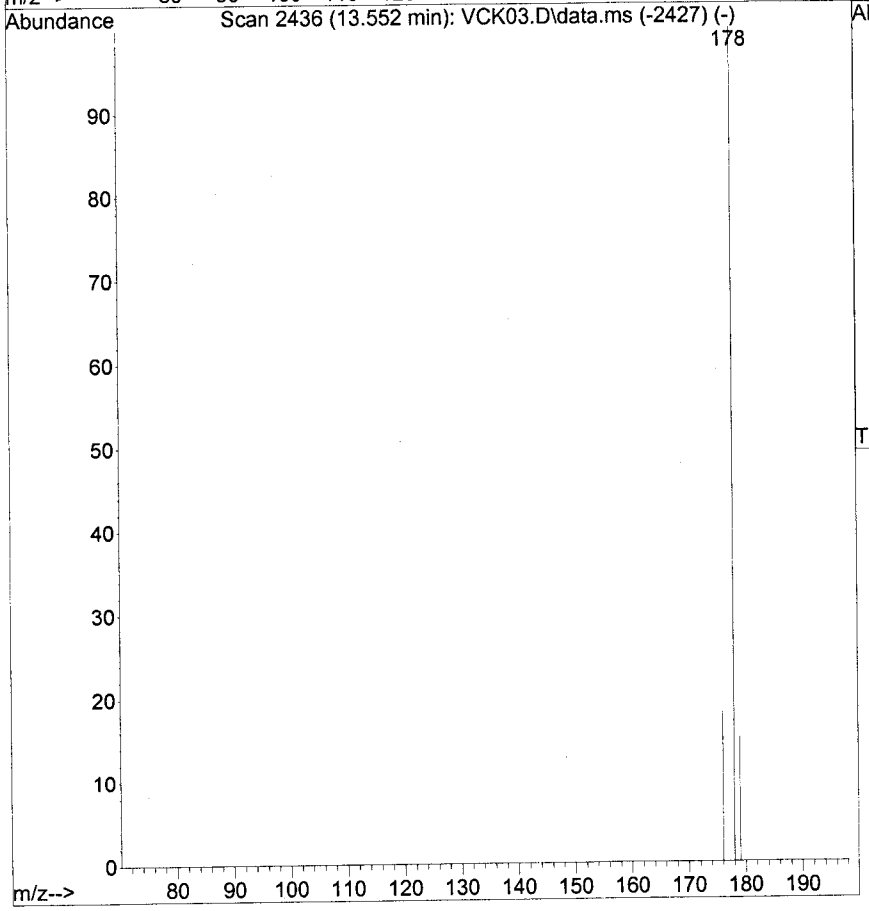
#15
Anthracene
Concen: 0.0034 ug/mL
RT: 13.547 min Scan# 2436
Delta R.T. -0.005 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

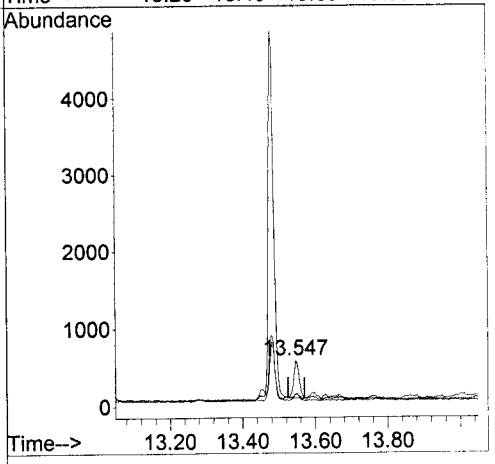
Tgt Ion:178 Resp: 486

Ion	Ratio	Lower	Upper
178	100		
179	27.5	0.0	34.4
176	26.7	0.0	39.5



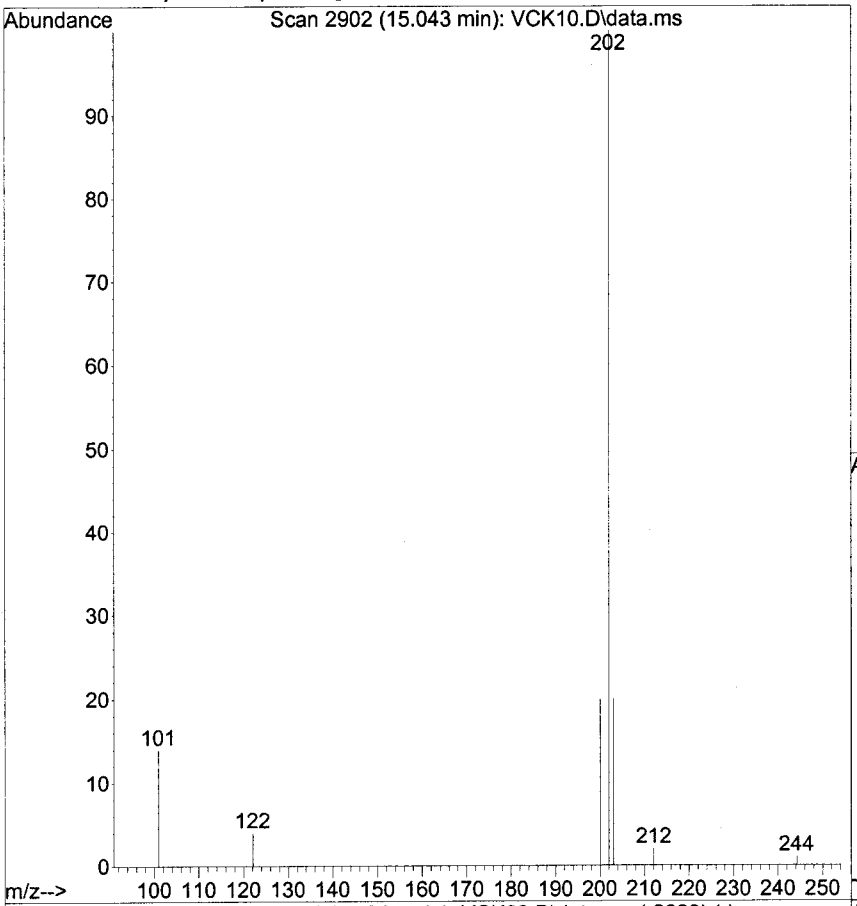
Ref





[Fluoranthene; <RL; u]

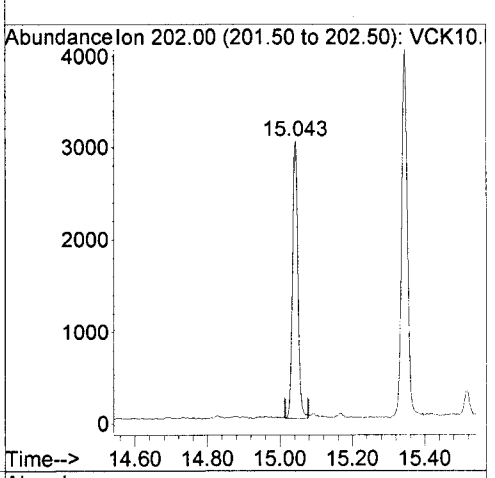
Raw



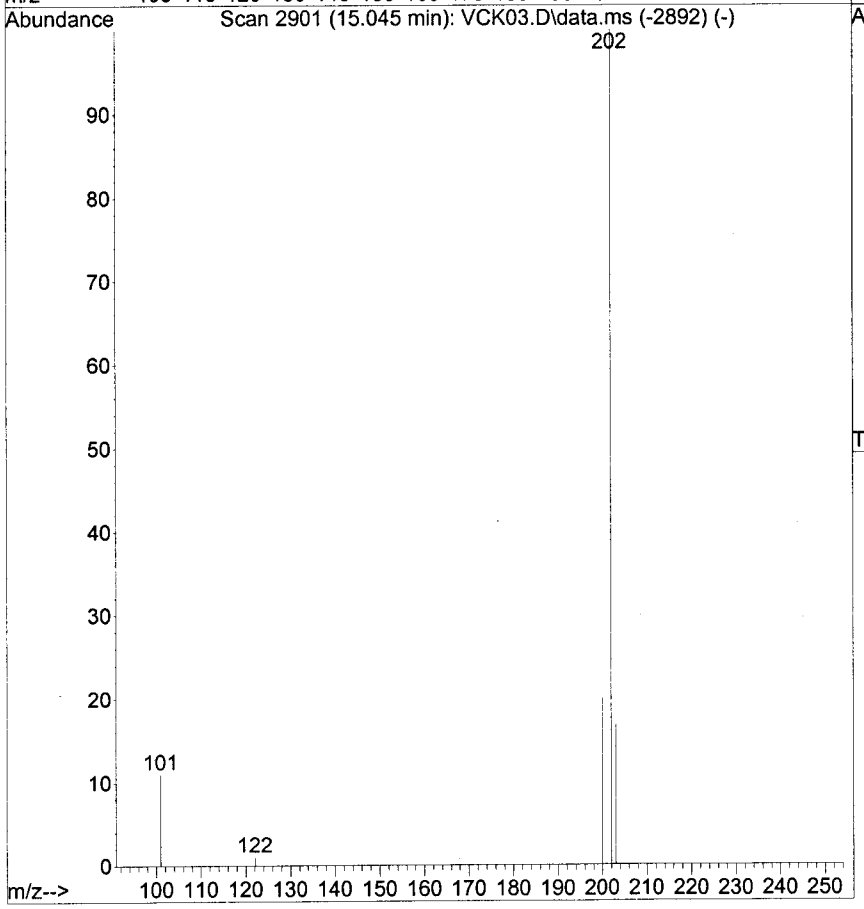
#16
Fluoranthene
Concen: 0.0200 ug/mL
RT: 15.043 min Scan# 2902
Delta R.T. -0.001 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

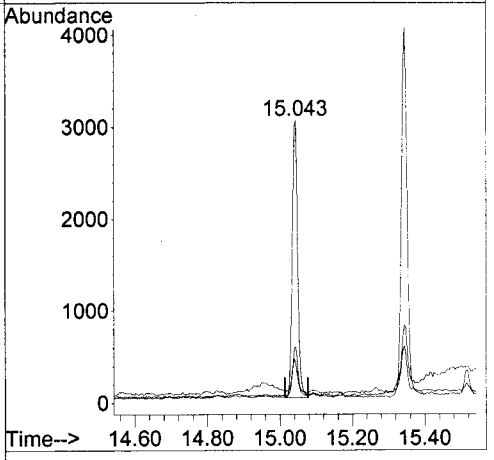
Tgt Ion:202 Resp: 3189

Ion	Ratio	Lower	Upper
202	100		
101	13.8	0.0	21.1
203	19.8	0.0	37.0



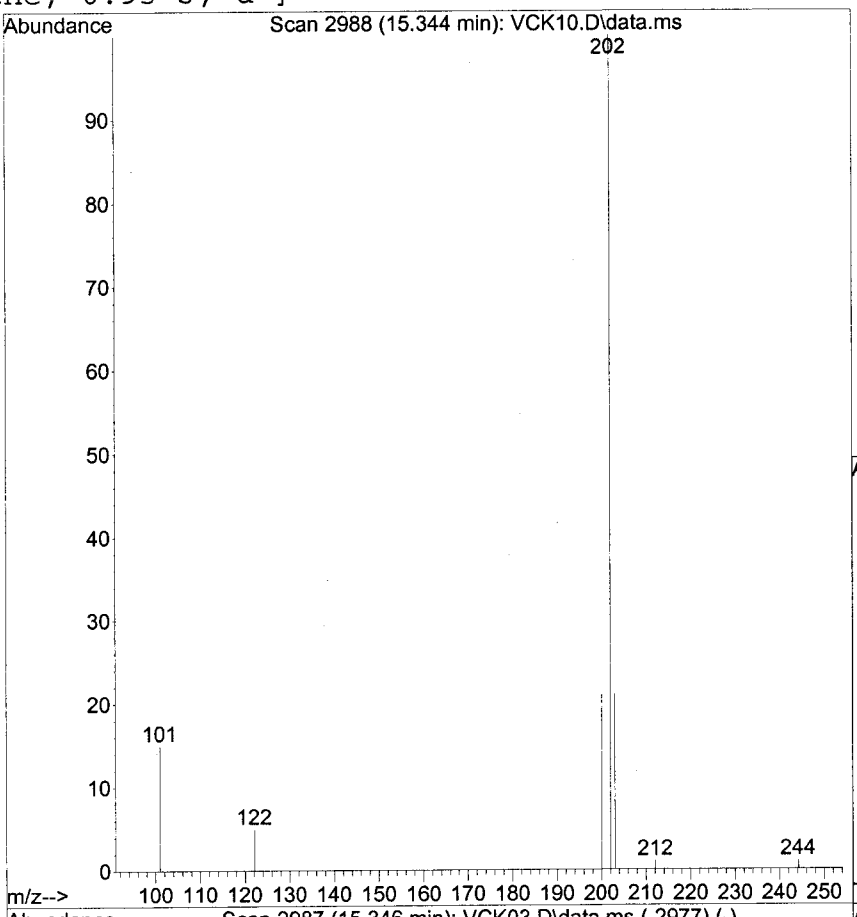
Ref





[Pyrene; 0.93 J; u]

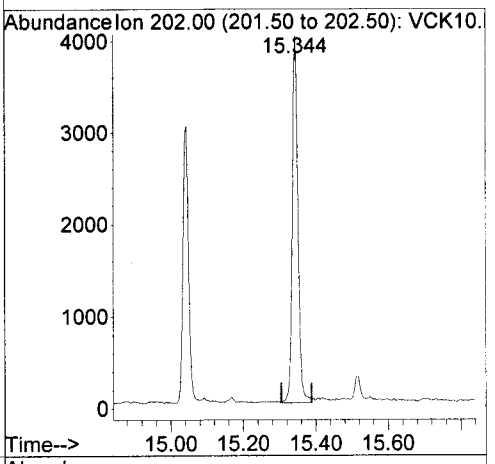
Raw



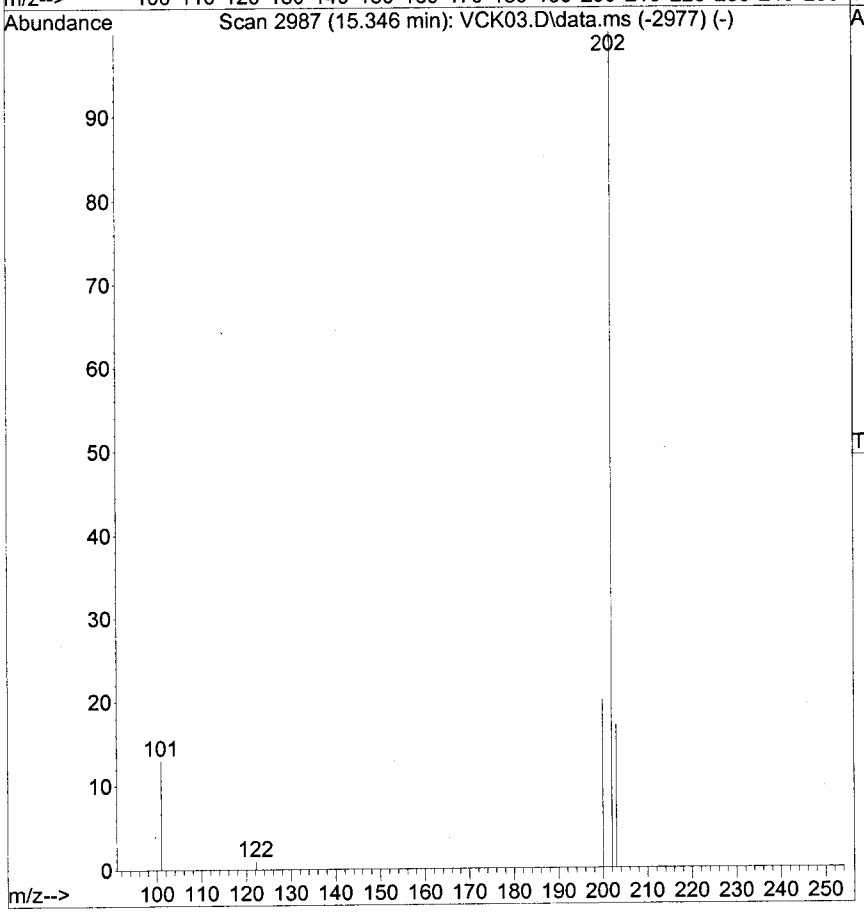
#18
Pyrene
Concen: 0.0280 ug/mL
RT: 15.344 min Scan# 2988
Delta R.T. -0.001 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

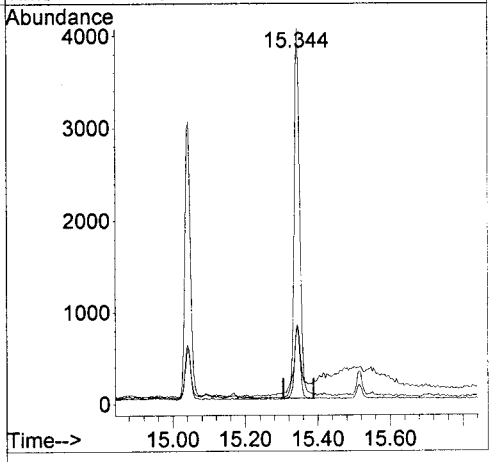
Tgt Ion:202 Resp: 4464

Ion	Ratio	Lower	Upper
202	100		
200	21.2	1.1	41.1
203	20.6	0.0	37.7



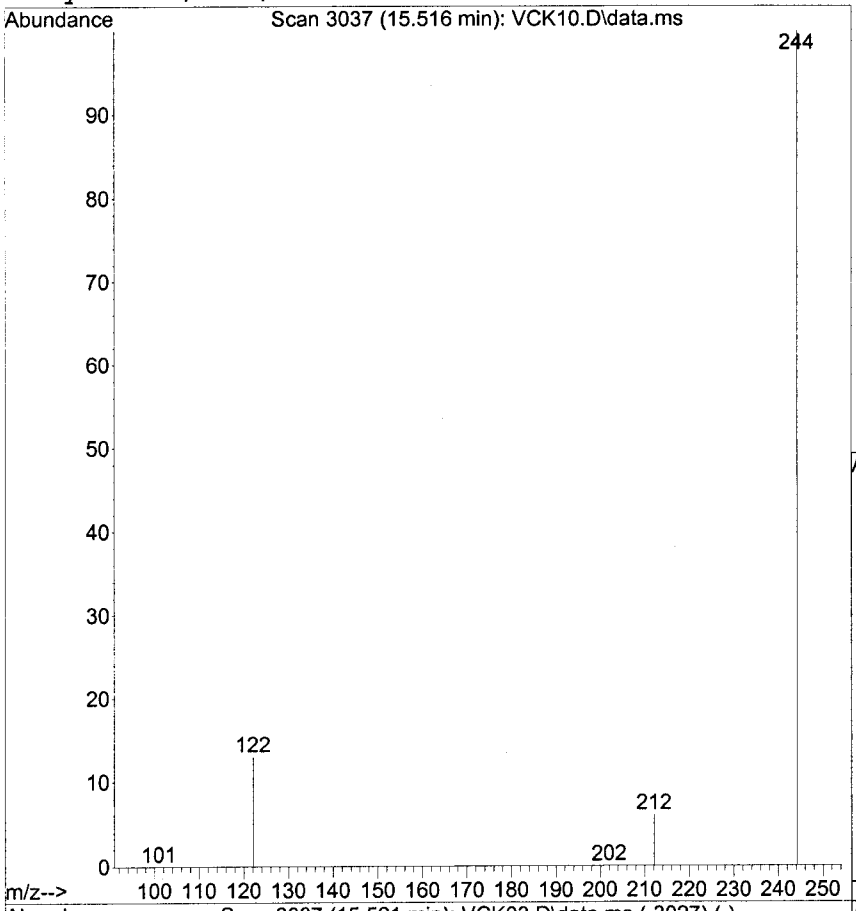
Ref





[Terphenyl-d14; 29; u]

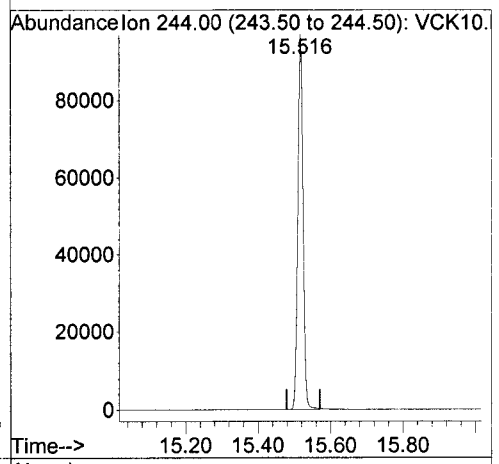
Raw



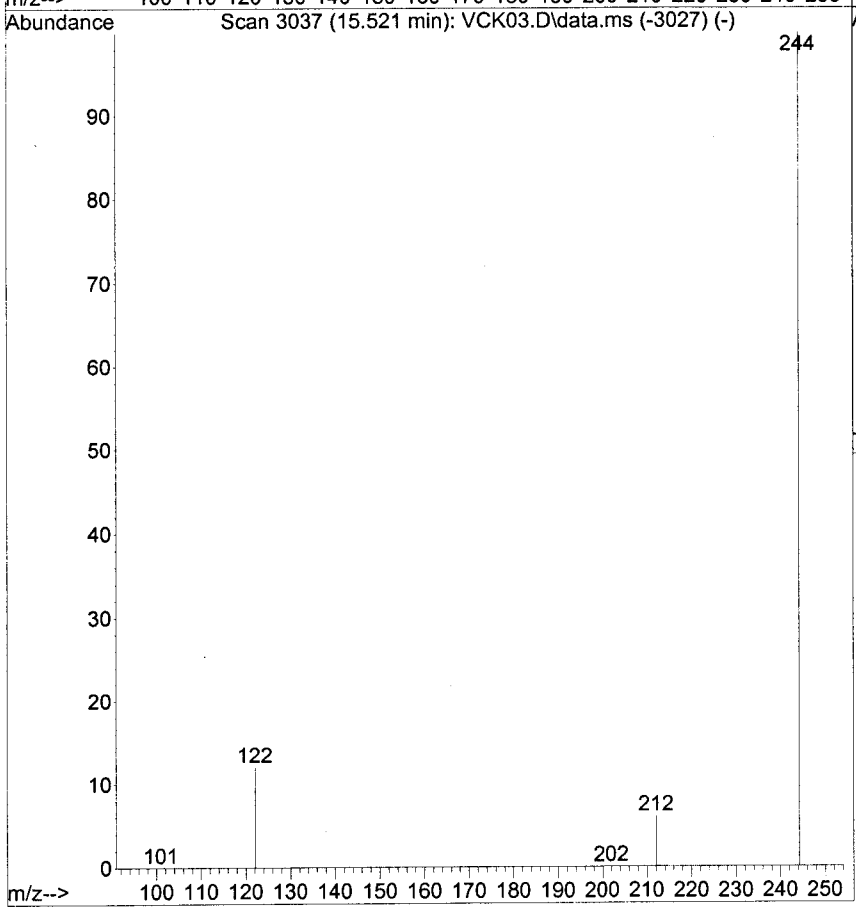
#19
Terphenyl-d14
Concen: 0.8735 ug/mL
RT: 15.516 min Scan# 3037
Delta R.T. -0.005 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

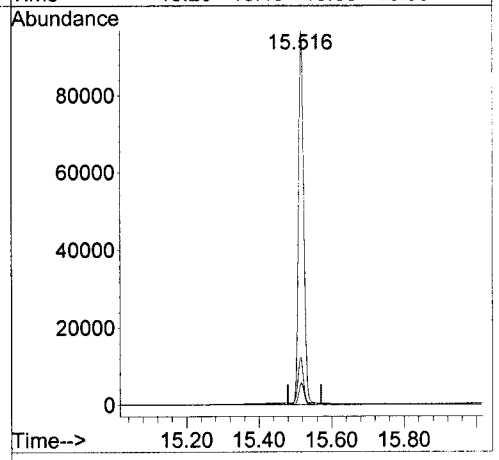
Tgt Ion:244 Resp: 100653

Ion	Ratio	Lower	Upper
244	100		
122	12.8	0.0	25.0
212	6.0	0.0	31.4



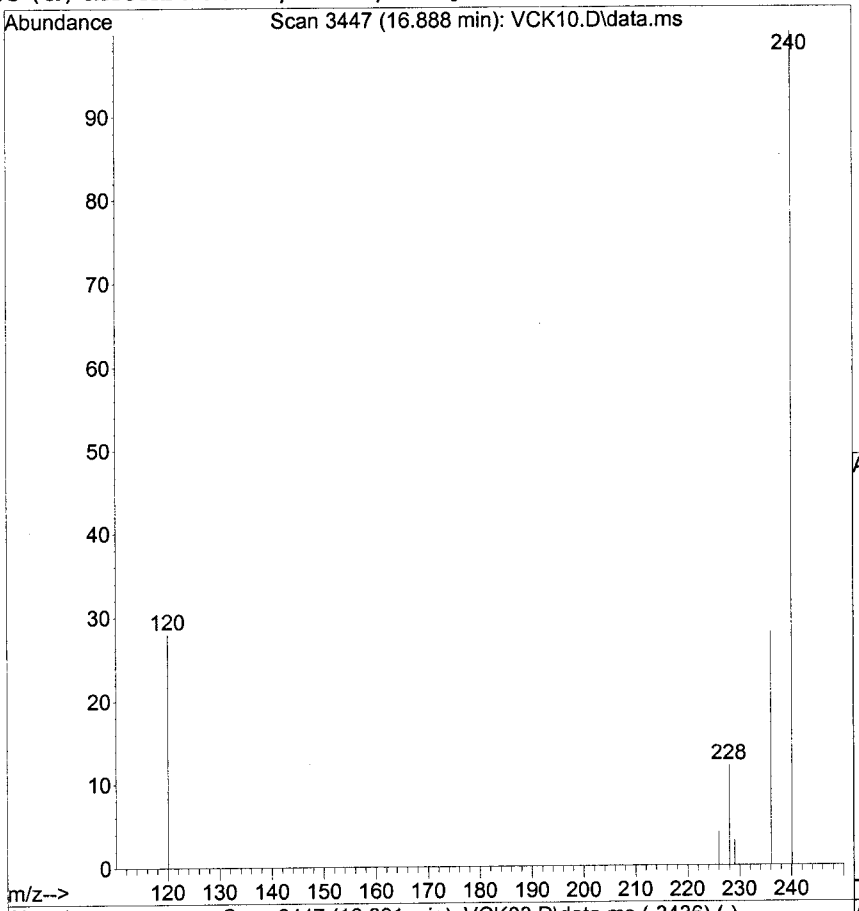
Ref





[Benzo(a)anthracene; <RL; u]

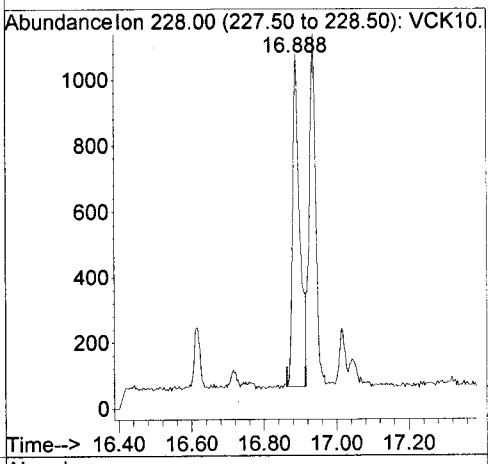
Raw



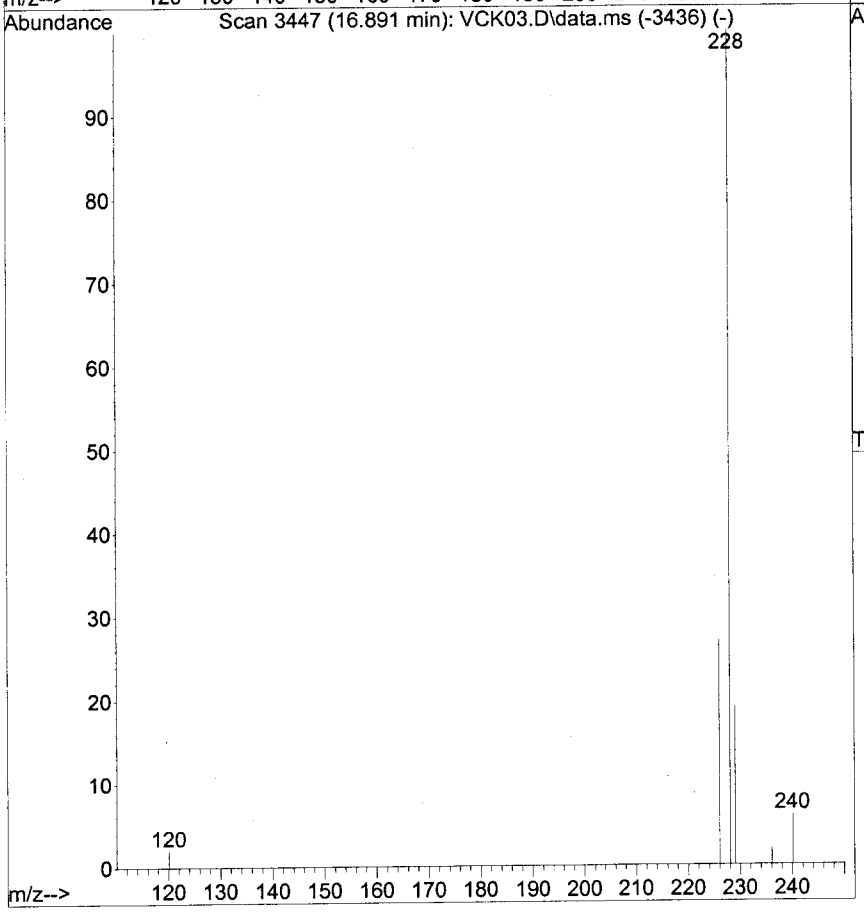
#20
Benzo(a)anthracene
Concen: 0.0101 ug/mL
RT: 16.888 min Scan# 3447
Delta R.T. -0.003 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

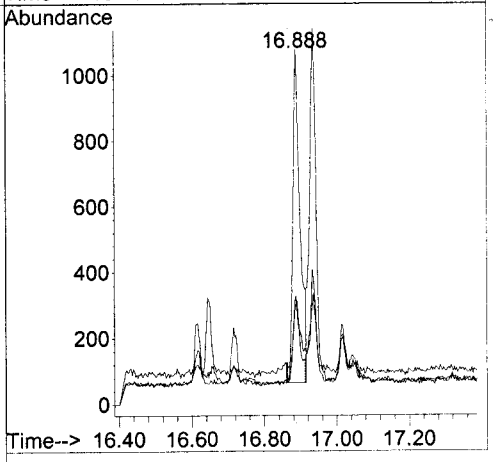
Tgt Ion:228 Resp: 1374

Ion	Ratio	Lower	Upper
228	100		
229	28.3	0.1	40.1
226	30.5	9.3	49.3



Ref

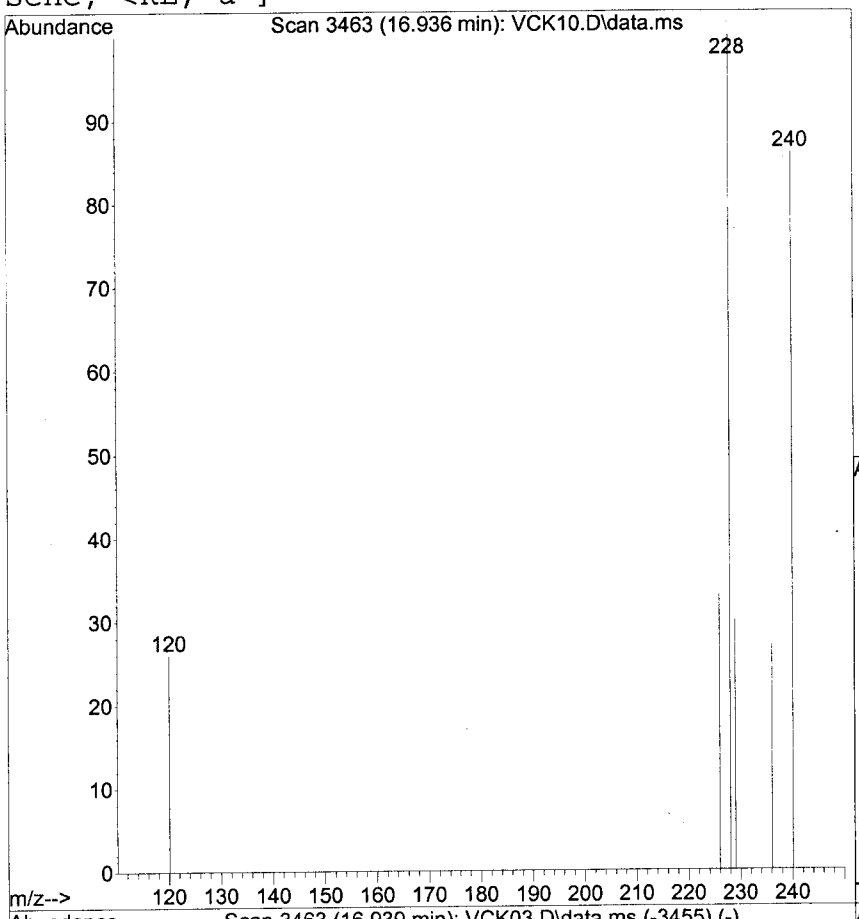




00105

[Chrysene; <RL; u]

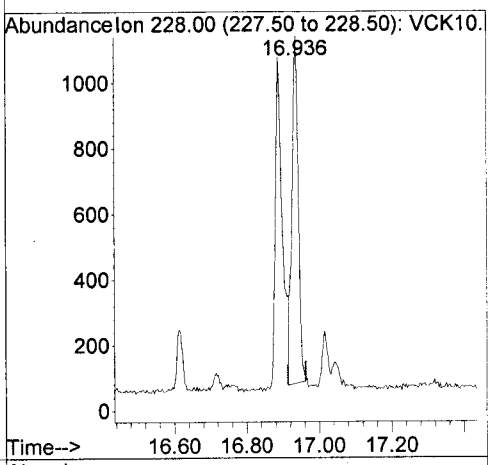
Raw



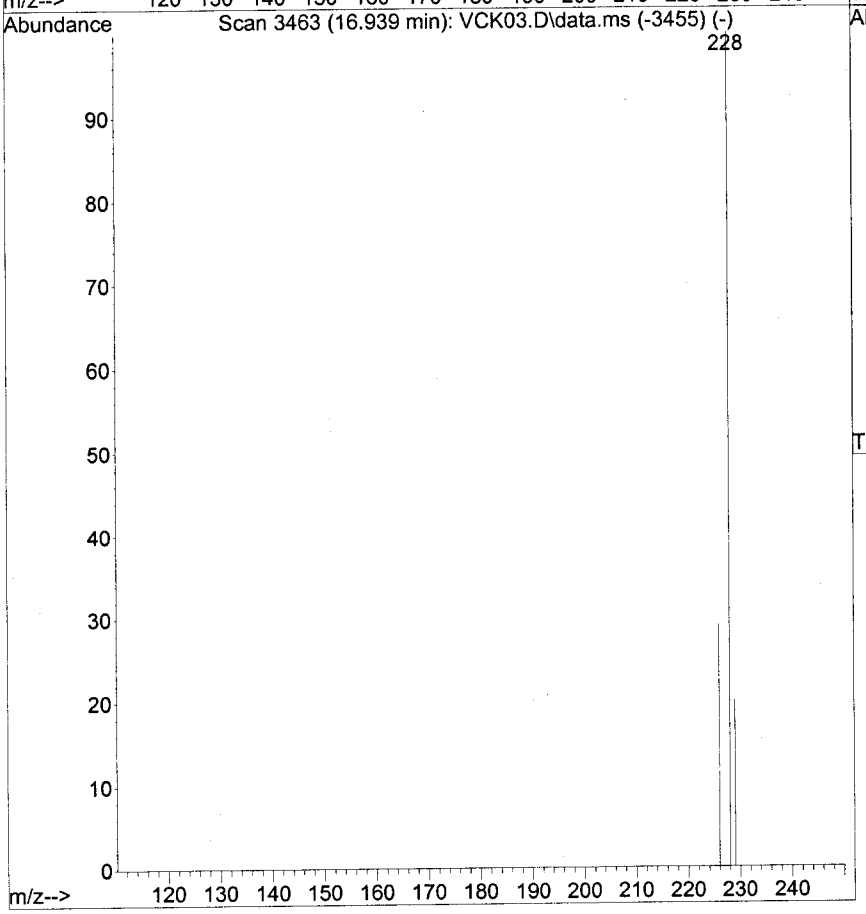
#21
Chrysene
Concen: 0.0090 ug/mL
RT: 16.936 min Scan# 3463
Delta R.T. -0.003 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

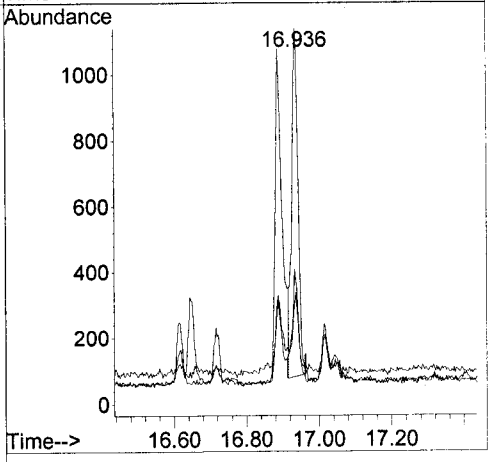
Tgt Ion:228 Resp: 1276

Ion	Ratio	Lower	Upper
228	100		
226	33.3	13.4	53.4
229	29.5	0.8	40.8



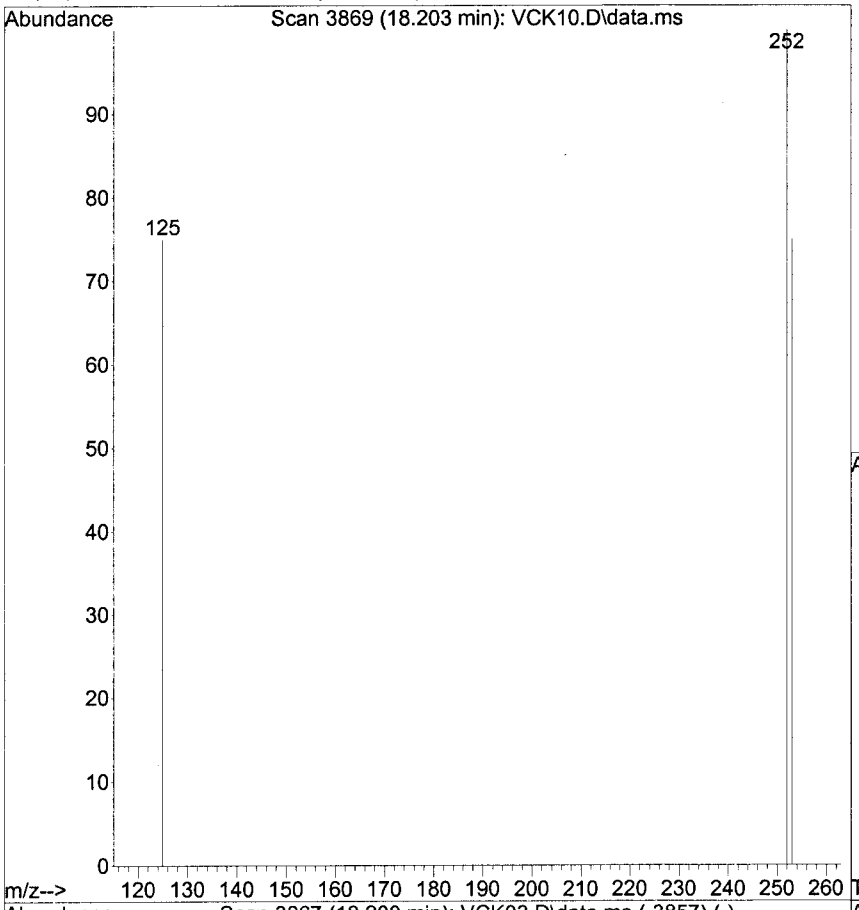
Ref





[Benzo(b)fluoranthene; <RL; u]

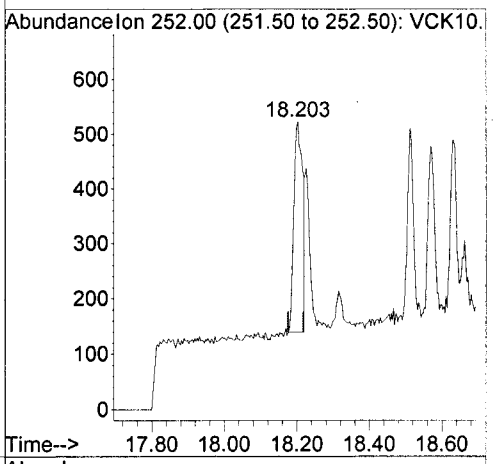
Raw



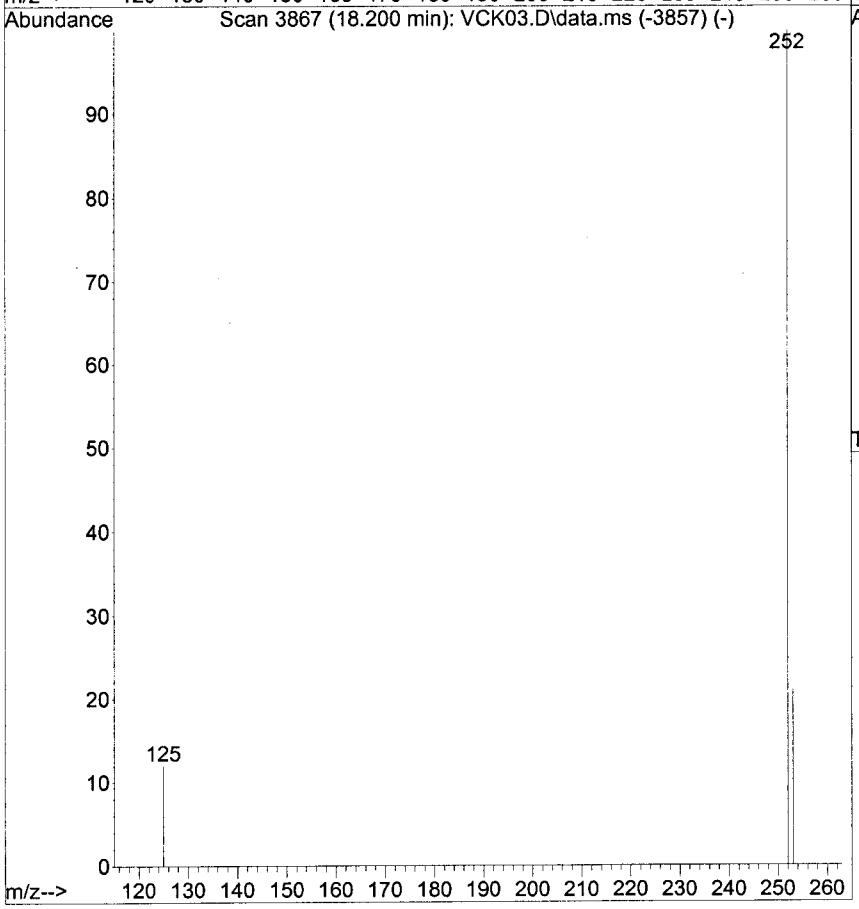
#23
Benzo(b)fluoranthene
Concen: 0.0041 ug/mL
RT: 18.203 min Scan# 3869
Delta R.T. 0.003 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

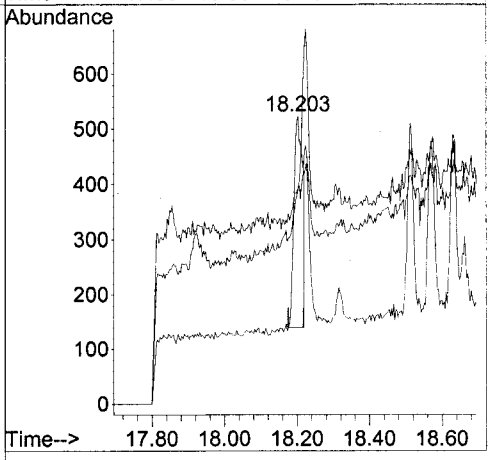
Tgt Ion:252 Resp: 641

Ion	Ratio	Lower	Upper
252	100		
253	74.8	1.0	41.0#
125	74.8	0.0	20.9#



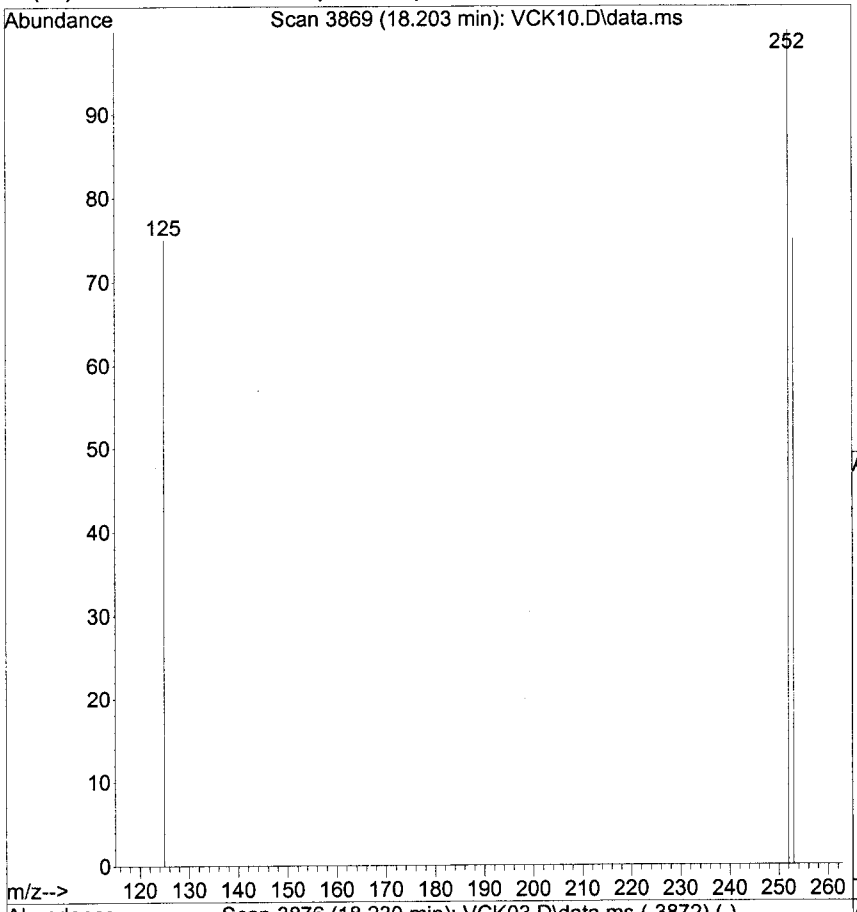
Ref





[Benzo(k)fluoranthene; <RL; u]

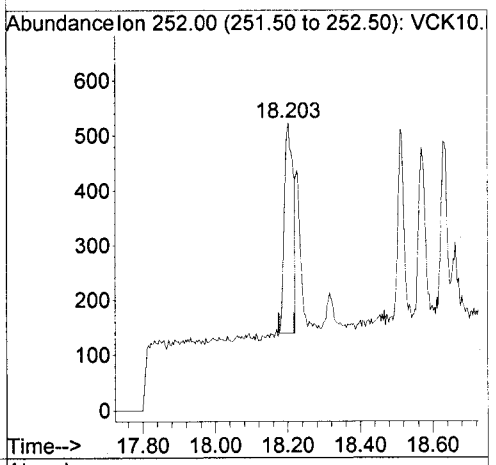
Raw



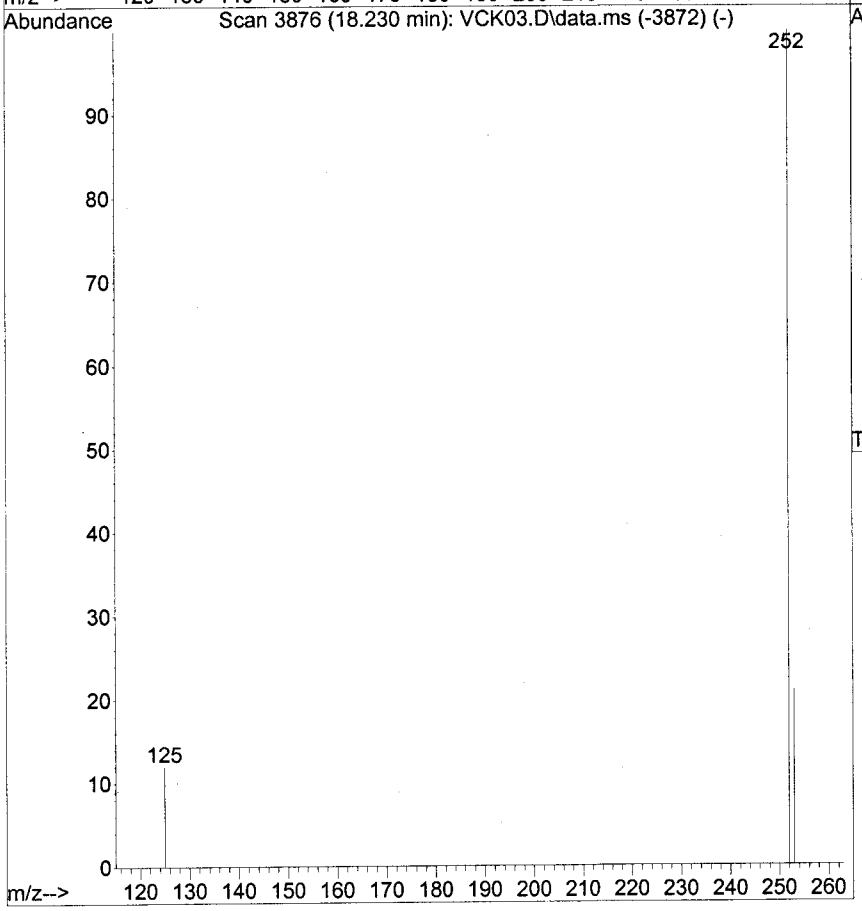
#24
Benzo(k)fluoranthene
Concen: 0.0041 ug/mL
RT: 18.203 min Scan# 3869
Delta R.T. -0.027 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

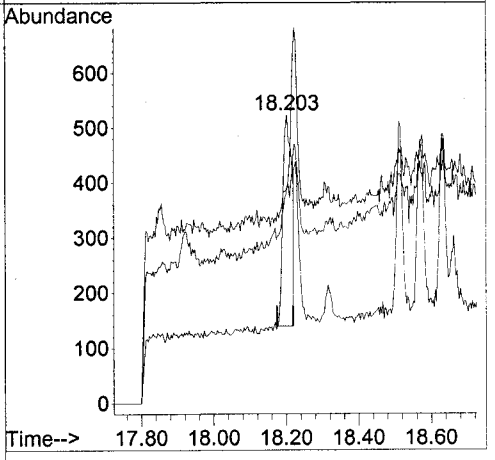
Tgt Ion:252 Resp: 641

Ion	Ratio	Lower	Upper
252	100		
253	74.8	1.1	41.1#
125	74.8	0.0	21.1#



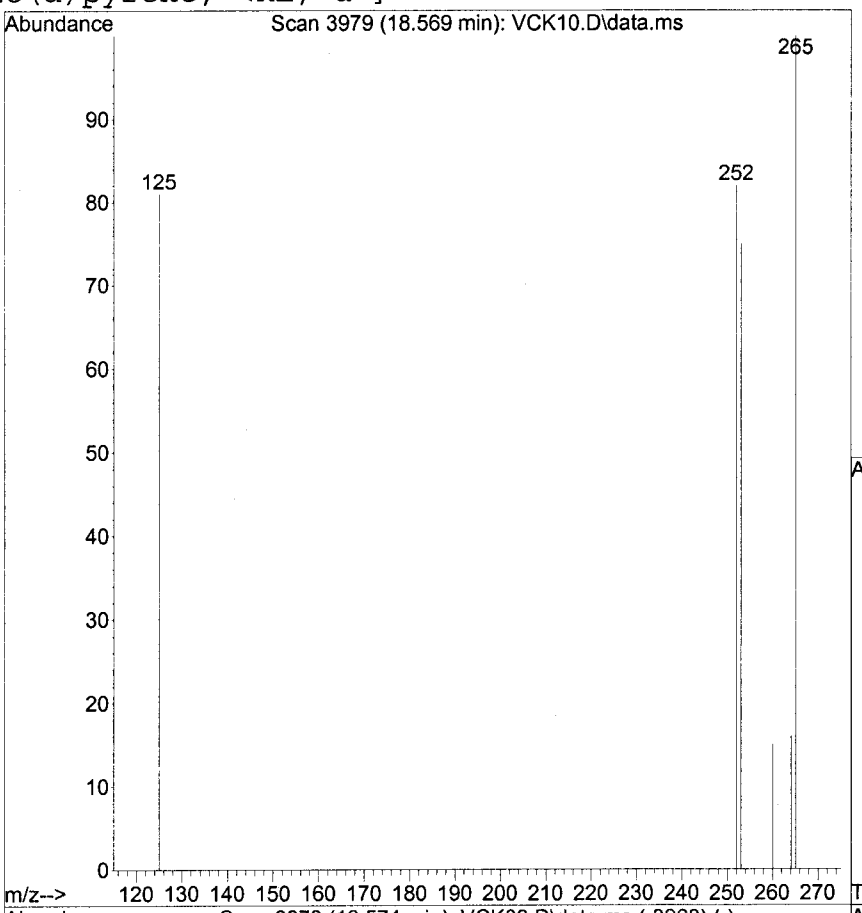
Ref





[Benzo(a)pyrene; <RL; u]

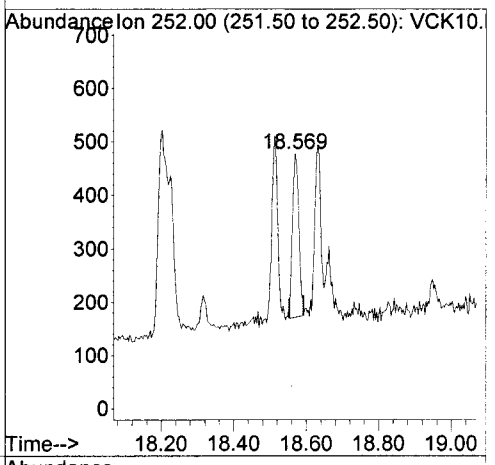
Raw



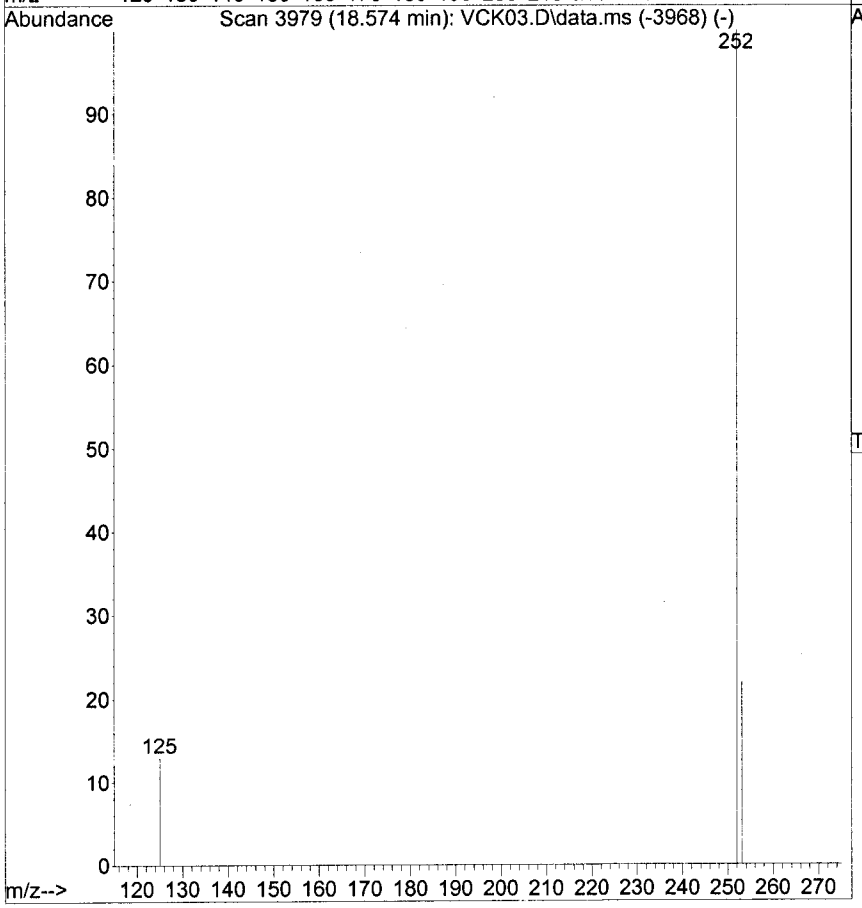
#25
Benzo(a)pyrene
Concen: 0.0028 ug/mL
RT: 18.569 min Scan# 3979
Delta R.T. -0.005 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

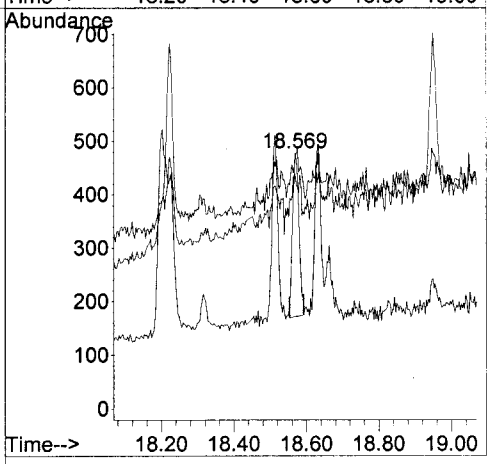
Tgt Ion:252 Resp: 373

Ion	Ratio	Lower	Upper
252	100		
253	91.8	3.4	43.4#
125	99.8	0.0	20.9#



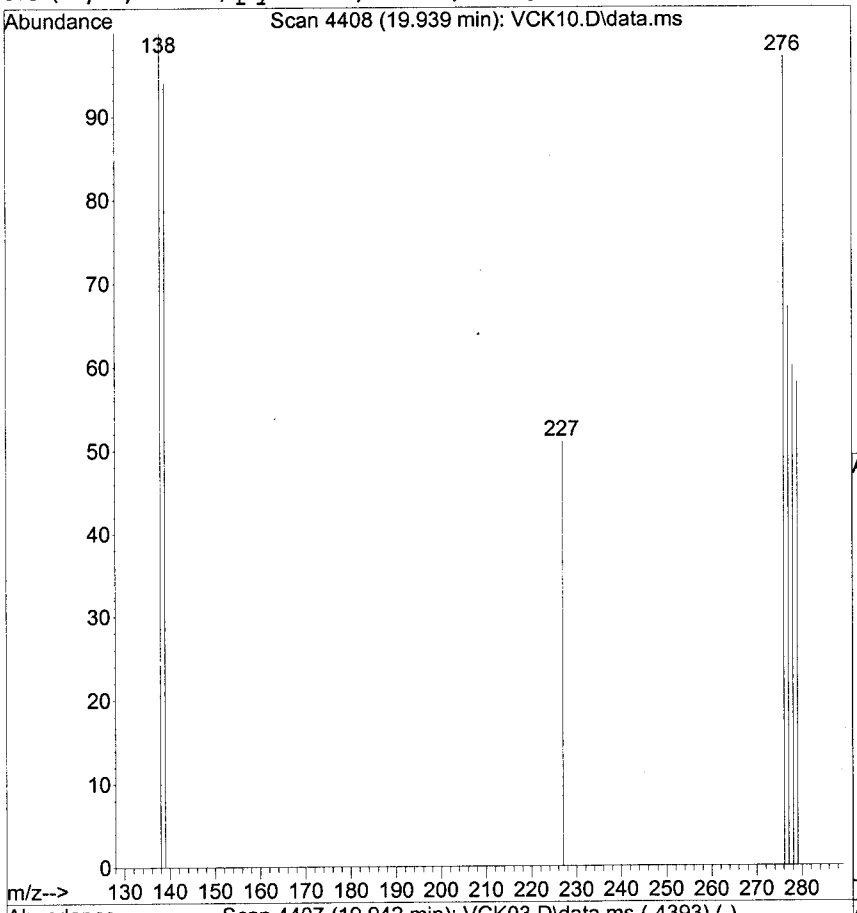
Ref





[Indeno(1,2,3-cd)pyrene; <RL; u]

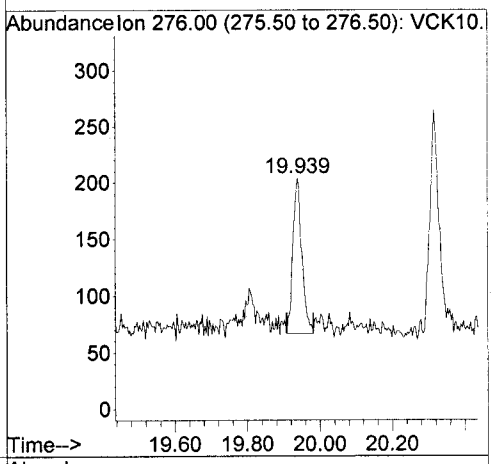
Raw



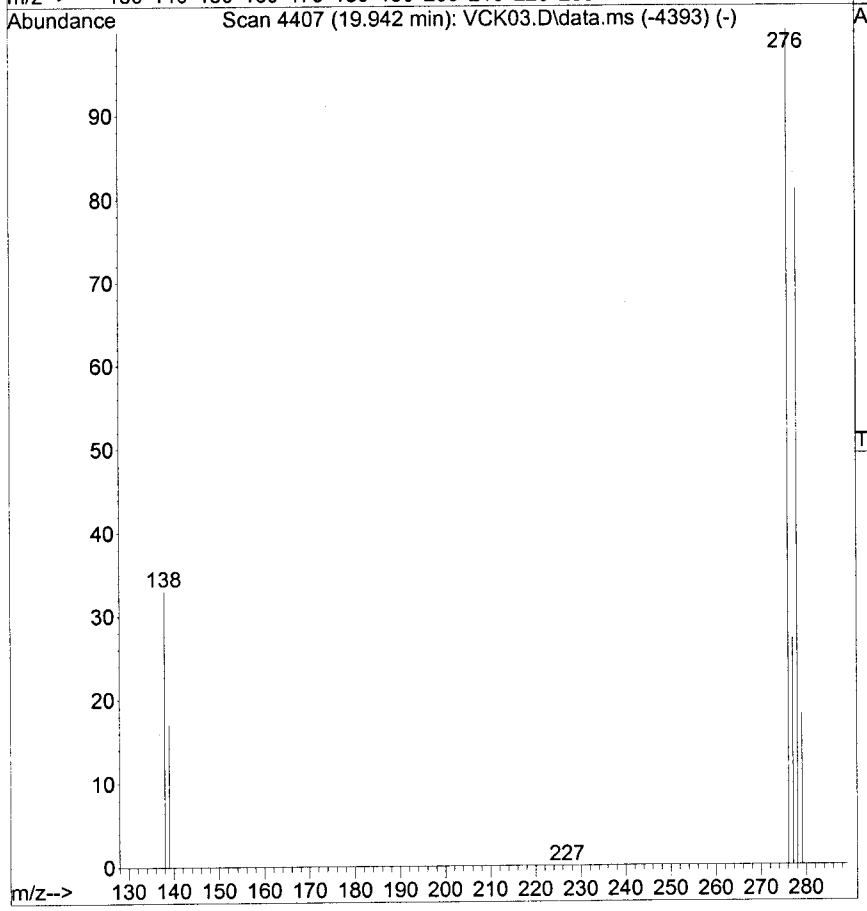
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0022 ug/mL
RT: 19.939 min Scan# 4408
Delta R.T. -0.003 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

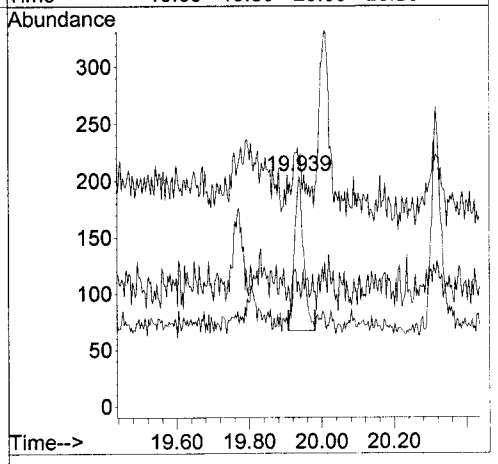
Tgt Ion:276 Resp: 233

Ion	Ratio	Lower	Upper
276	100		
138	102.9	0.0	23.1#
227	52.5	0.0	21.0#



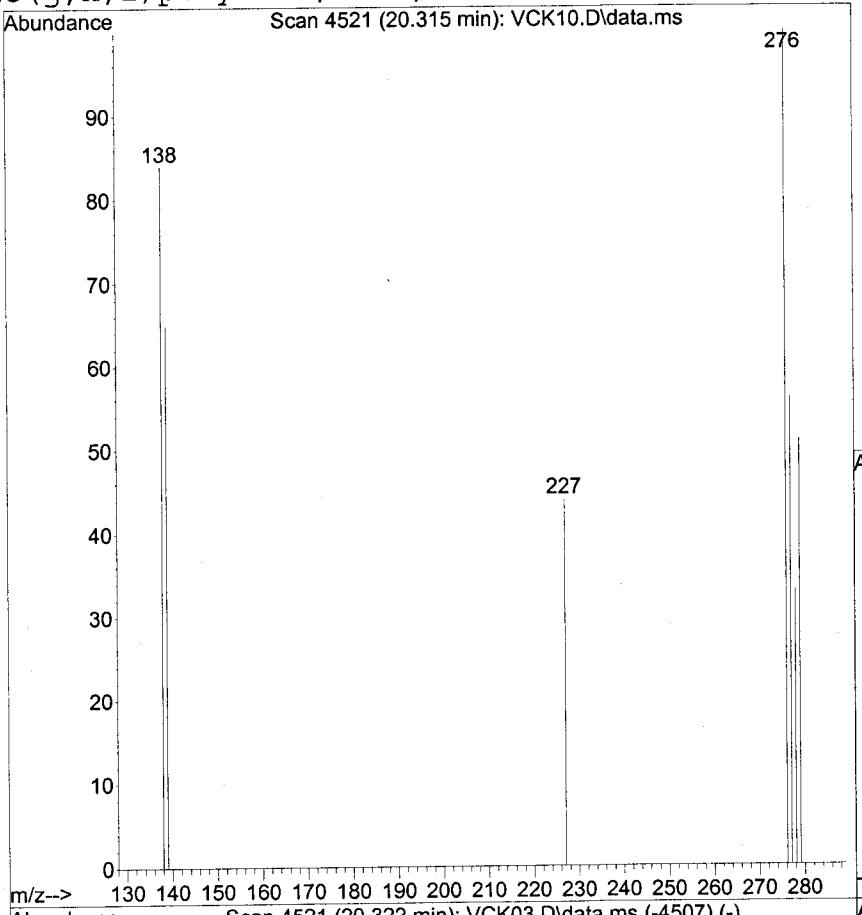
Ref





[Benzo(g,h,i)perylene; <RL; u]

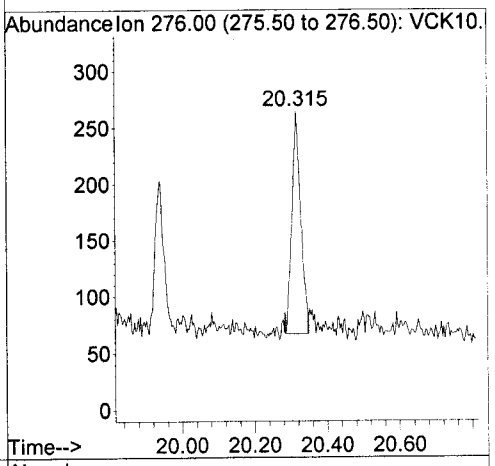
Raw



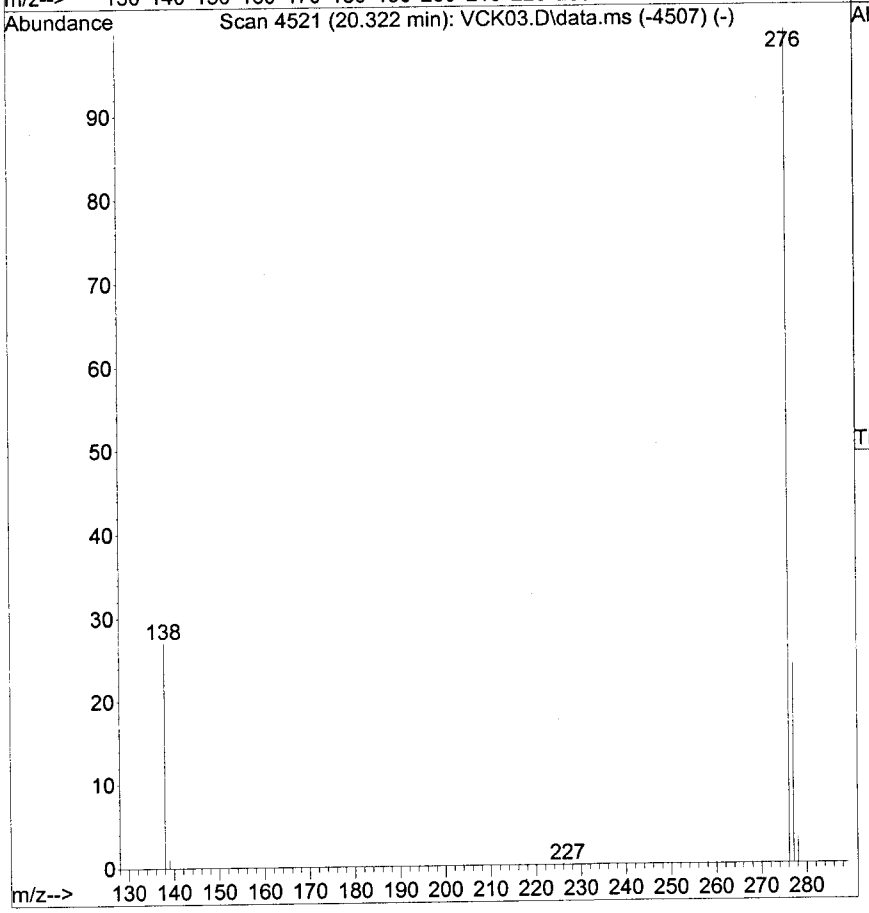
#28
Benzo(g,h,i)perylene
Concen: 0.0038 ug/mL
RT: 20.315 min Scan# 4521
Delta R.T. -0.006 min
Lab File: VCK10.D
Acq: 20 Mar 2008 12:33 pm

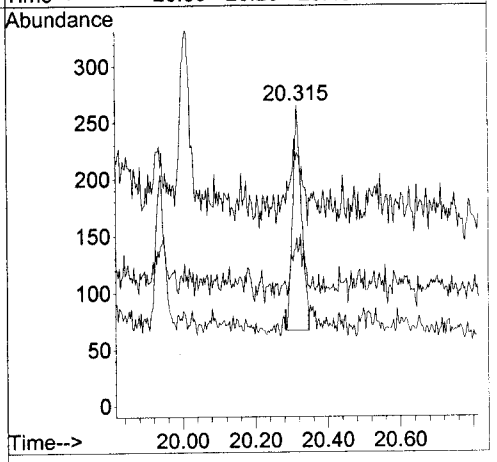
Tgt Ion:276 Resp: 335

Ion	Ratio	Lower	Upper
276	100		
138	84.2	0.0	22.1#
277	55.8	2.5	42.5#



Ref





CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst	: MSBNA08	Lab ID	: 202043-004	Client ID	: 1065EX310[7.0]
Seqnum	: 578115801003	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: sck03	Batch	: 136173	Time	: 20-MAR-2008 10:58
Cal	: 578083102001	Caldate	: 26-FEB-2008		
IDF	: 1.0	Raw Units	: ug/mL	Units	: ug/Kg

30.17 g --> 1.0 ml = 0.03315 ml/g PDF

Analyte	Raw	Result	RTS	RL	Blank	Flags
Naphthalene	0.008800	ND		5.0		u
2-Methylnaphthalene	0	ND		5.0		u
Acenaphthylene	0	ND		5.0		u
Acenaphthene	0	ND		5.0		u
Fluorene	0	ND		5.0		u
Phenanthrene	0.006800	ND		5.0		u
Anthracene	0.006700	ND		5.0		u
Fluoranthene	0	ND		5.0		u
Pyrene	0	ND		5.0		u
Benzo(a)anthracene	0	ND		5.0		u
Chrysene	0	ND		5.0		u
Benzo(b)fluoranthene	0	ND		5.0		u
Benzo(k)fluoranthene	0	ND		5.0		u
Benzo(a)pyrene	0.01150	ND		5.0		u
Indeno(1,2,3-cd)pyrene	0.02090	0.69 J	-0.412	5.0		?curve+ u x
Dibenz(a,h)anthracene	0.04640	1.5 J	-0.417	5.0		?curve+ u x
Benzo(g,h,i)perylene	0	ND		5.0		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8523	33.15	28.25	85	23-120	u
2-Fluorobiphenyl	0.8566	33.15	28.39	86	30-115	u
Terphenyl-d14	1.043	33.15	34.56	104	18-137	u

ISTD (CCV sck02)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE R	Drift
Naphthalene-d8	64577	49240	-23.75	10.60	10.60	0.01
Acenaphthene-d10	45669	32551	-28.72	12.82	12.82	0.00
Phenanthrene-d10	83109	58845	-29.20	14.72	14.72	0.00
Chrysene-d12	92399	55558	-39.87	18.27	18.28	0.01
Perylene-d12	87612	55092	-37.12	20.21	20.21	0.00

JAJ 03/20/08 [Indeno(1,2,3-cd)pyrene]: This is just noise.

JAJ 03/20/08 [Dibenz(a,h)anthracene]: This is just noise.

JAJ: 03/20/08 LLH: 03/20/08 EAH: 03/21/08

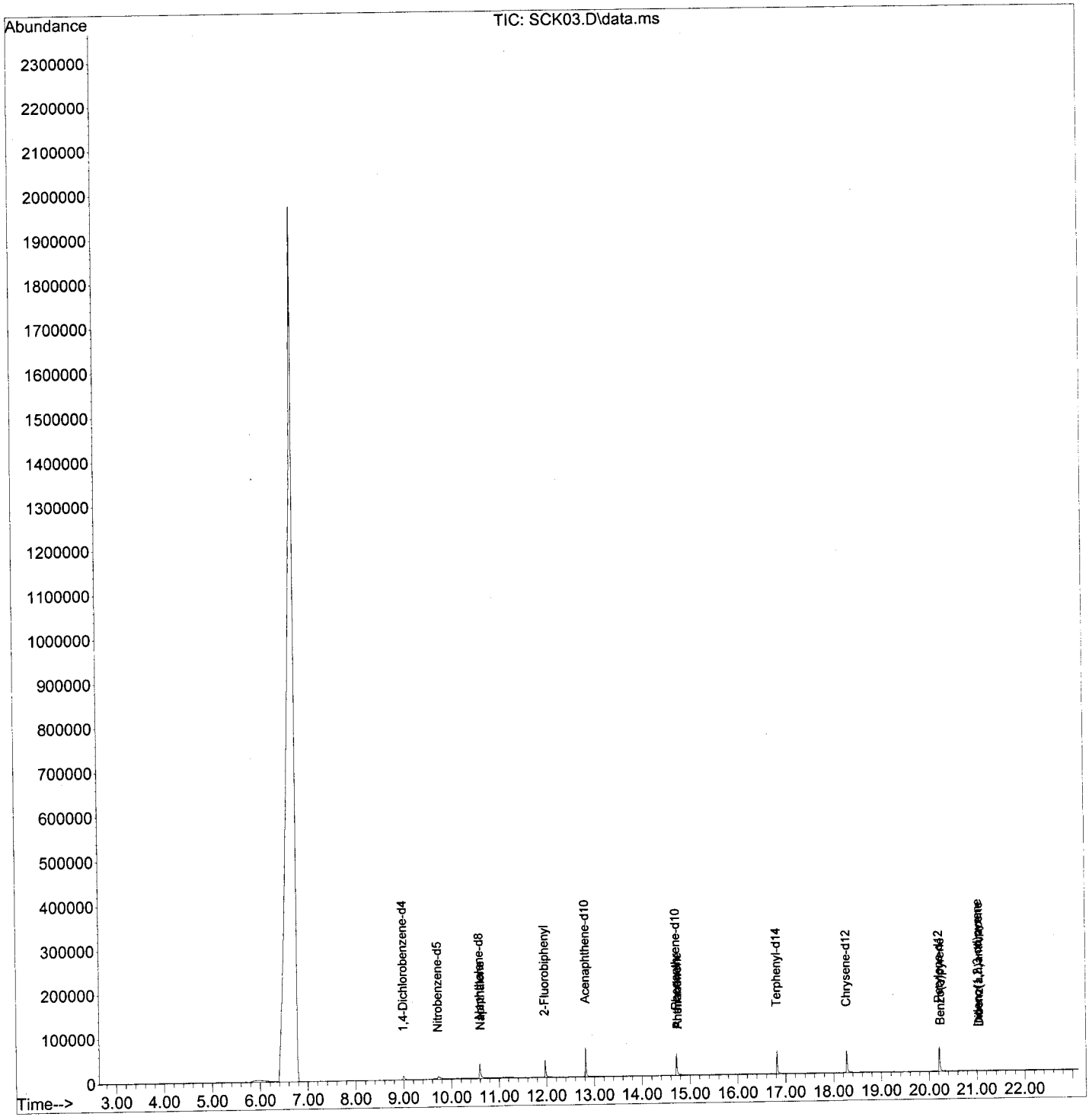
+=high bias ?curve=check curve u=use x=false positive

578115801003

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : SCK03.D
Acq On : 20 Mar 2008 10:58 am
Operator :
Sample : S,202043-004
Misc : 136173,1,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 20 11:18:47 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : SCK03.D
Acq On : 20 Mar 2008 10:58 am
Operator :
Sample : S,202043-004
Misc : 136173,1,
ALS Vial : 3 Sample Multiplier: 1

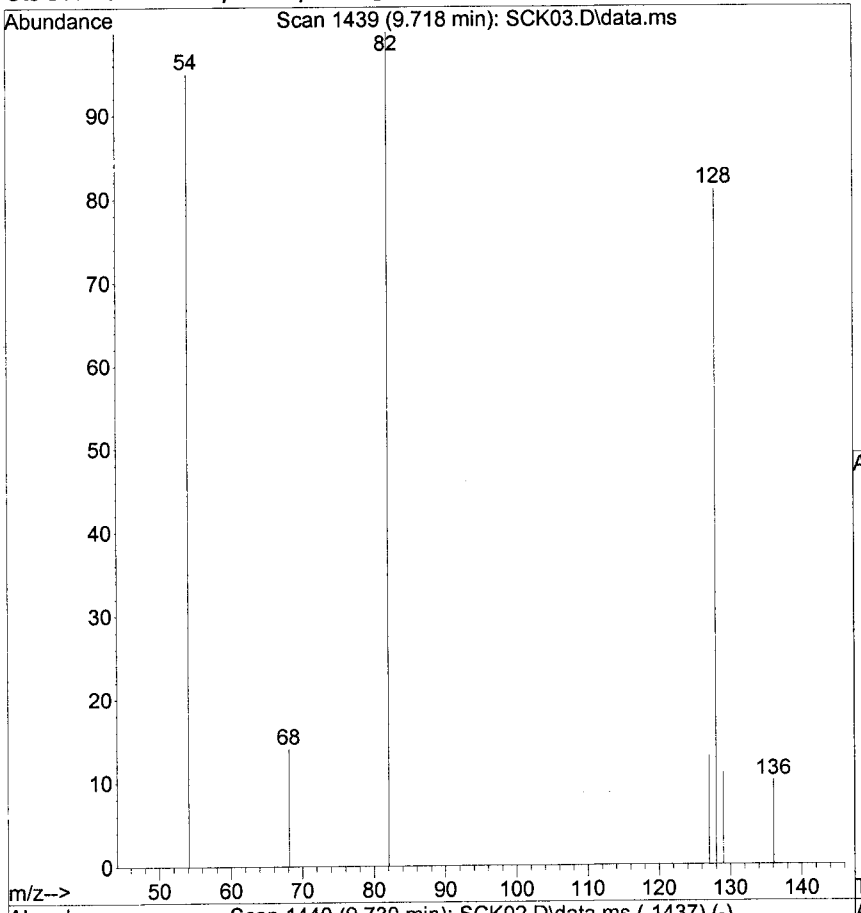
Quant Time: Mar 20 11:18:47 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	8.998	152	12631	1.0000	ug/mL	-0.01
3) Naphthalene-d8	10.596	136	49240	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.818	164	32551	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.720	188	58845	1.0000	ug/mL	0.00
17) Chrysene-d12	18.277	240	55558	1.0000	ug/mL	0.00
22) Perylene-d12	20.209	264	55092	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.		
4) Nitrobenzene-d5	9.718	82	5727	0.8523	ug/mL	94
5) Naphthalene	10.623	128	442	0.0088	ug/mL #	5
6) 2-Methylnaphthalene	0.000	142	0	N.D.		
7) 1-Methylnaphthalene	0.000	142	0	N.D.		
9) 2-Fluorobiphenyl	11.968	172	36631	0.8566	ug/mL	97
10) Acenaphthylene	0.000	152	0	N.D.		
11) Acenaphthene	0.000	154	0	N.D.		
12) Fluorene	0.000	166	0	N.D.		
14) Phenanthrene	14.760	178	434	0.0068	ug/mL	76
15) Anthracene	14.760	178	434	0.0067	ug/mL	77
16) Fluoranthene	0.000	202	0	N.D.		
18) Pyrene	0.000	202	0	N.D.		
19) Terphenyl-d14	16.818	244	55649	1.0426	ug/mL	96
20) Benzo(a)anthracene	0.000	228	0	N.D.		
21) Chrysene	0.000	228	0	N.D.		
23) Benzo(b)fluoranthene	0.000	252	0	N.D.		
24) Benzo(k)fluoranthene	0.000	252	0	N.D.		
25) Benzo(a)pyrene	20.252	252	713	0.0115	ug/mL #	48
26) Indeno(1,2,3-cd)pyrene	21.035	276	407	0.0209	ug/mL #	1
27) Dibenz(a,h)anthracene	21.045	278	499	0.0464	ug/mL #	1
28) Benzo(g,h,i)perylene	0.000	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

[Nitrobenzene-d5; 28; u]

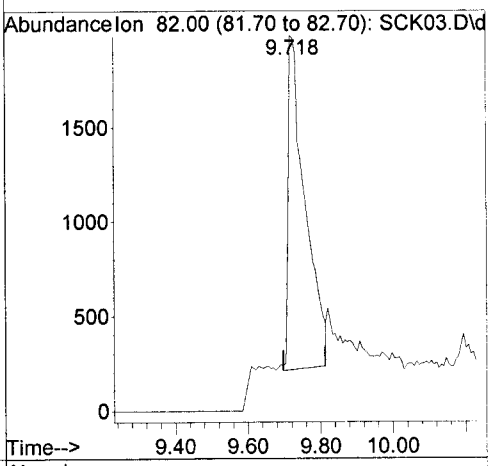
Raw



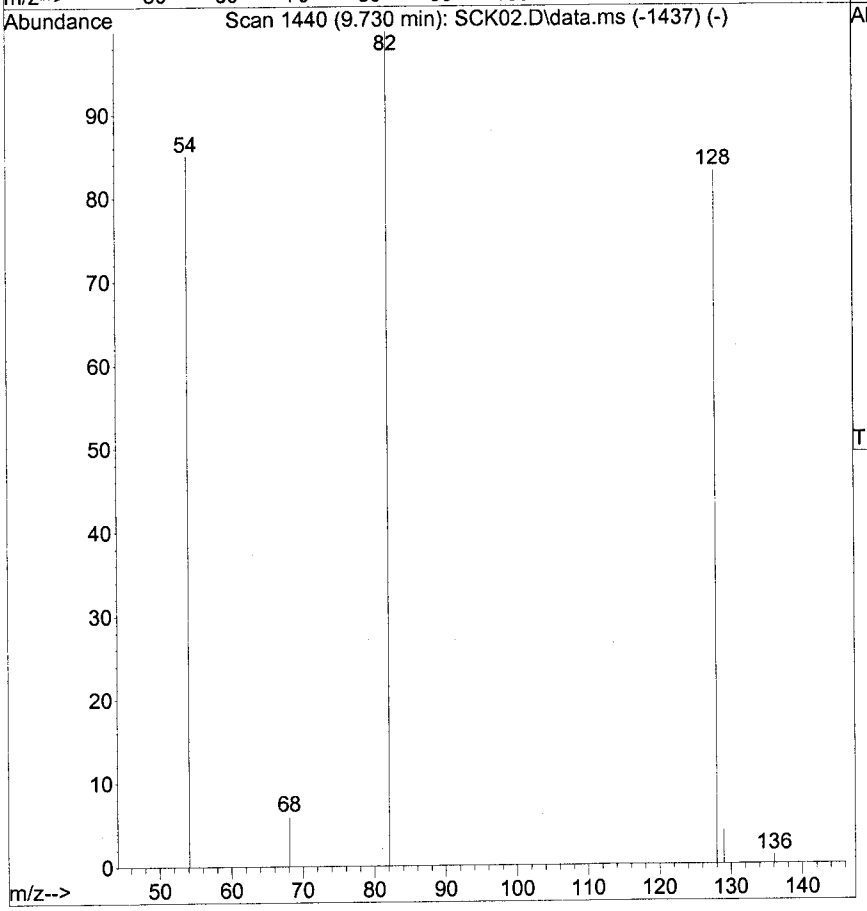
#4
Nitrobenzene-d5
Concen: 0.8523 ug/mL
RT: 9.718 min Scan# 1439
Delta R.T. -0.012 min
Lab File: SCK03.D
Acq: 20 Mar 2008 10:58 am

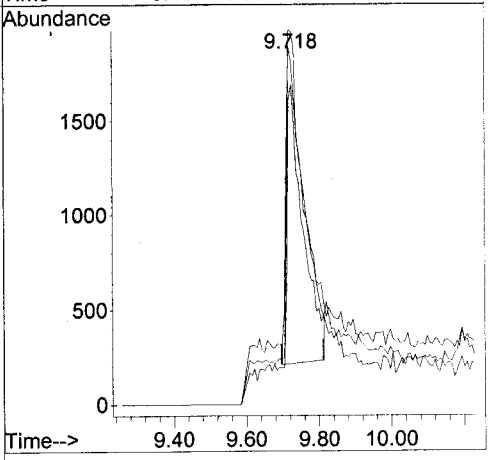
Tgt Ion: 82 Resp: 5727

Ion	Ratio	Lower	Upper
82	100		
128	81.1	52.7	92.7
54	95.5	73.3	113.3



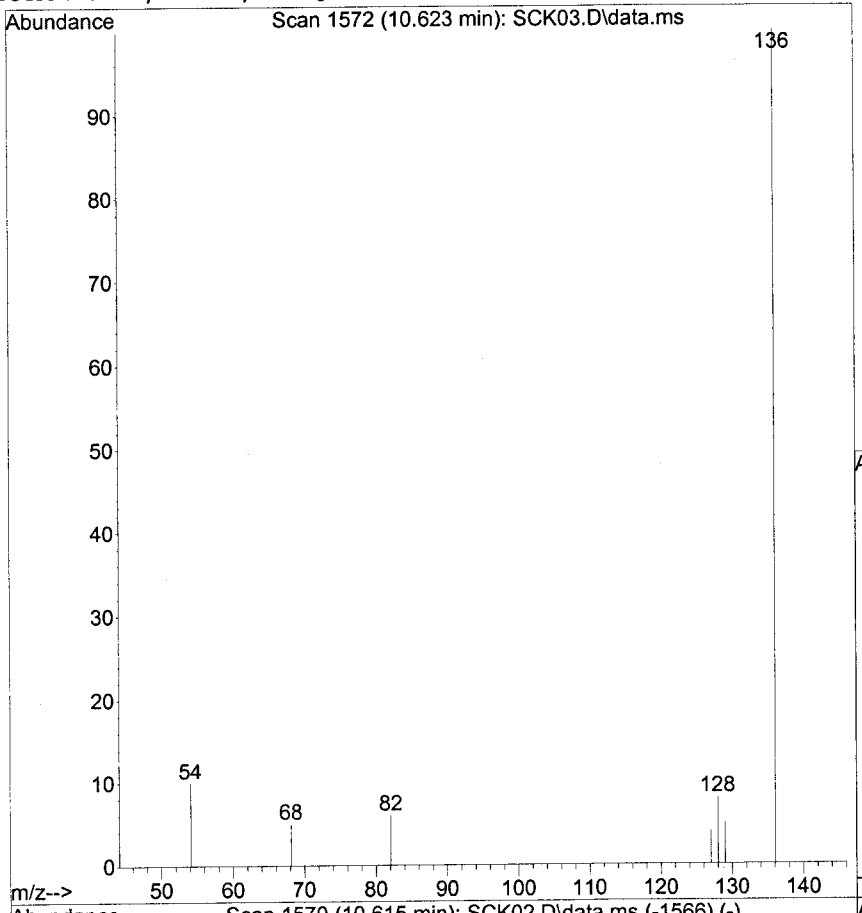
Ref





[Naphthalene; <RL; u]

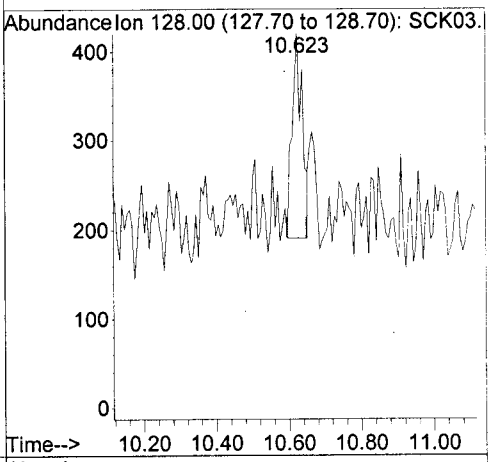
Raw



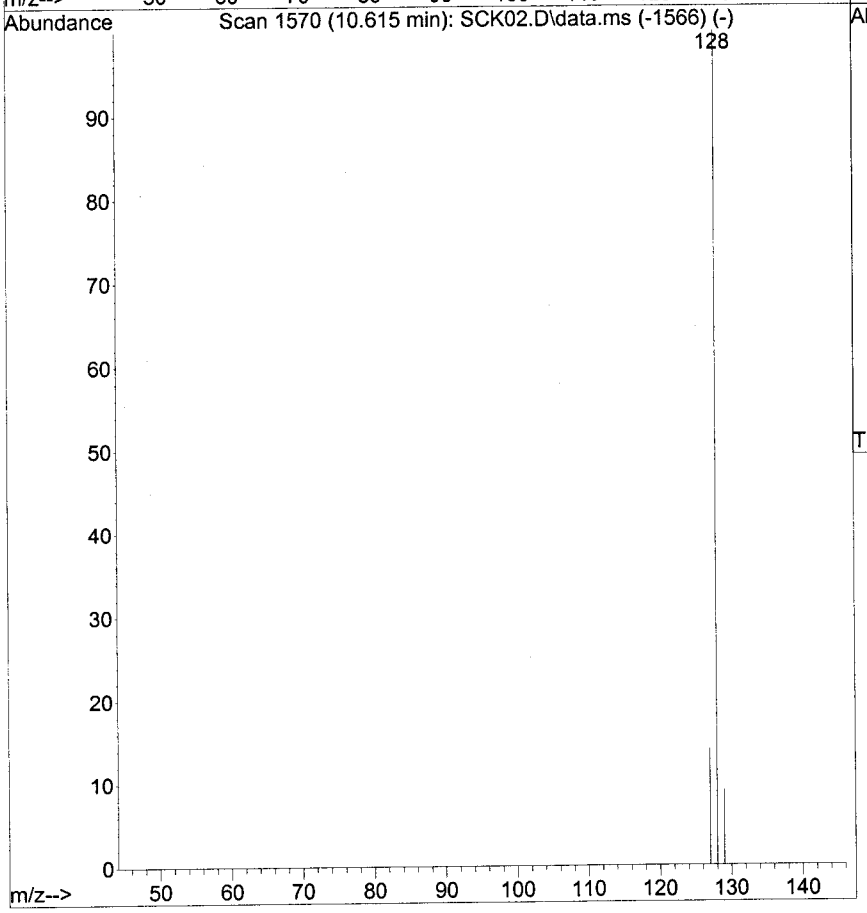
#5
Naphthalene
Concen: 0.0088 ug/mL
RT: 10.623 min Scan# 1572
Delta R.T. 0.008 min
Lab File: SCK03.D
Acq: 20 Mar 2008 10:58 am

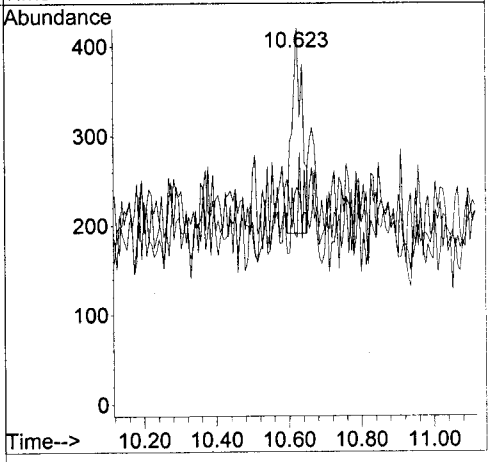
Tgt Ion:128 Resp: 442

Ion	Ratio	Lower	Upper
128	100		
129	57.9	0.0	31.8#
127	44.3	0.0	33.9#



Ref

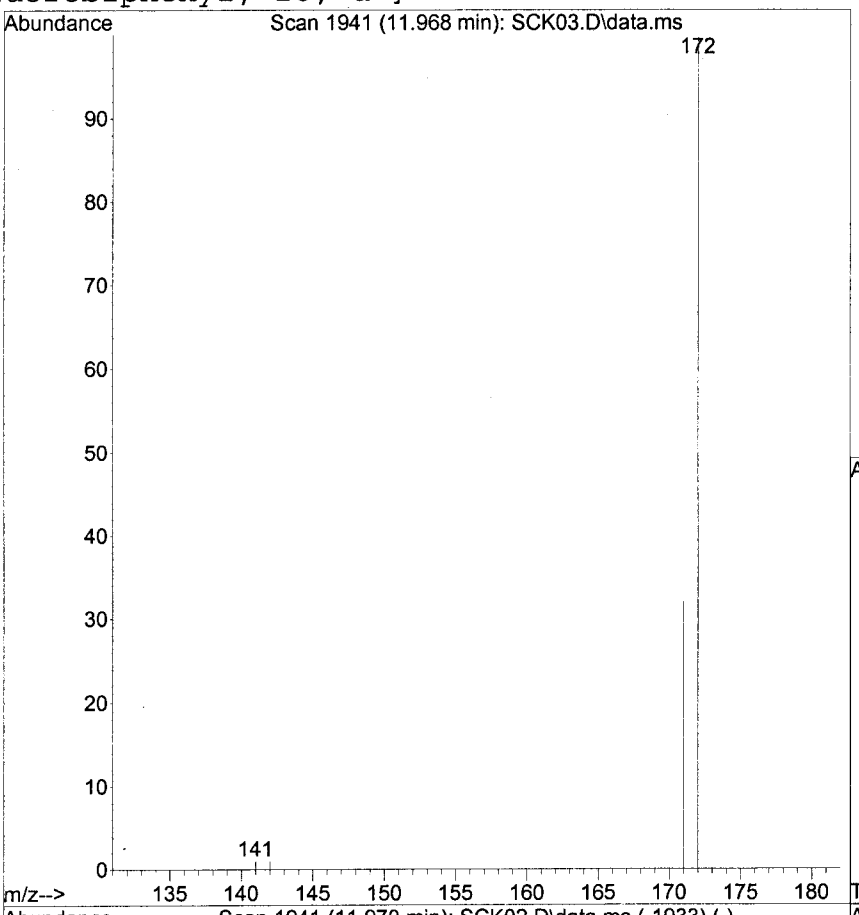




0016

[2-Fluorobiphenyl; 28; u]

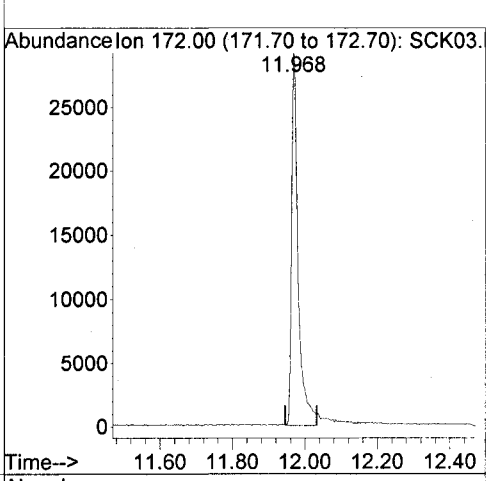
Raw



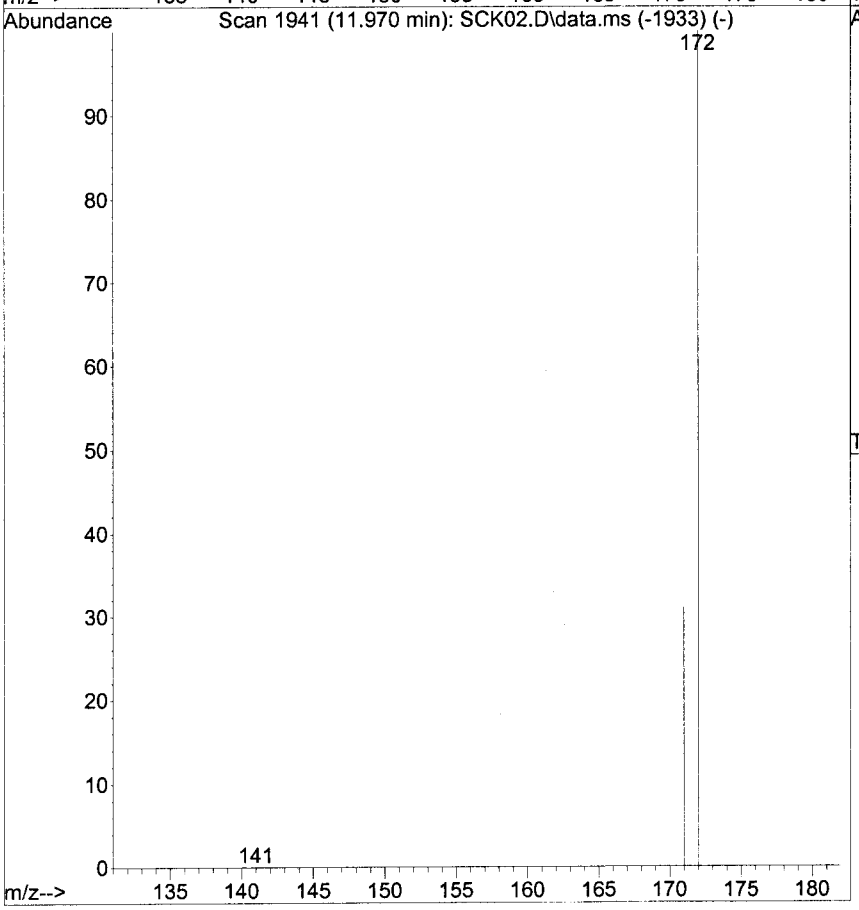
#9
2-Fluorobiphenyl
Concen: 0.8566 ug/mL
RT: 11.968 min Scan# 1941
Delta R.T. -0.002 min
Lab File: SCK03.D
Acq: 20 Mar 2008 10:58 am

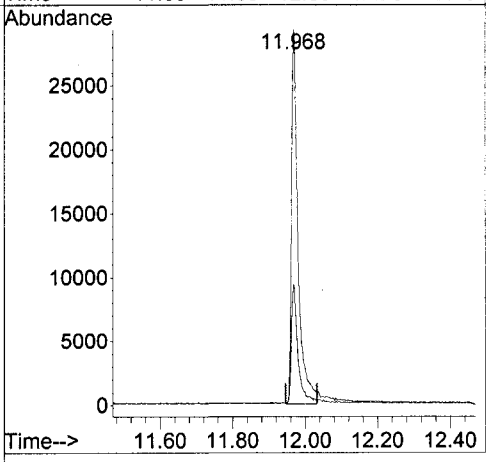
Tgt Ion:172 Resp: 36631

Ion	Ratio	Lower	Upper
172	100		
171	32.3	14.3	54.3



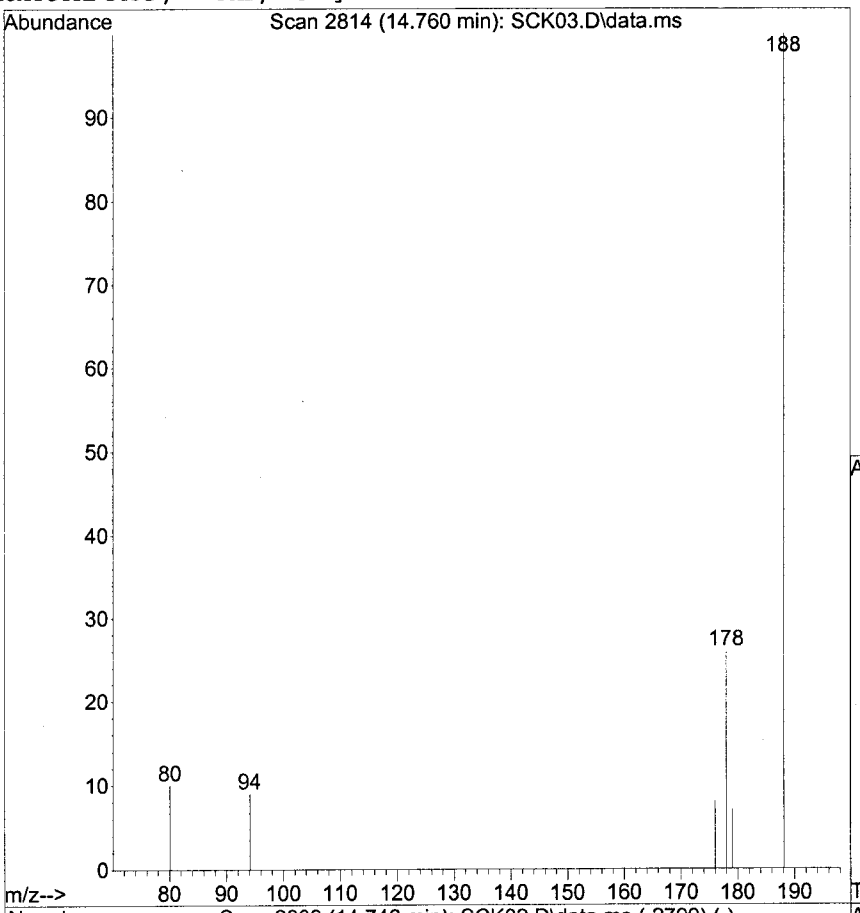
Ref





[Phenanthrene; <RL; u]

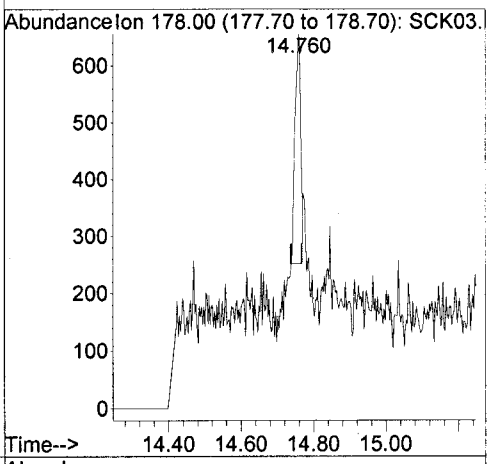
Raw



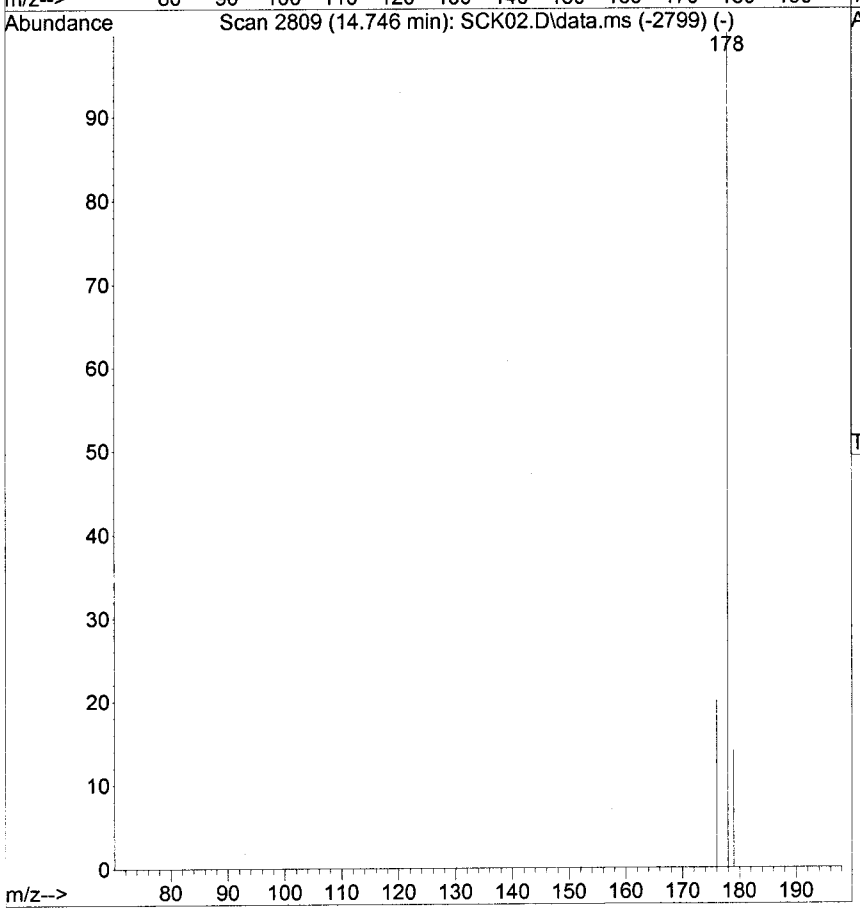
#14
Phenanthrene
Concen: 0.0068 ug/mL
RT: 14.760 min Scan# 2814
Delta R.T. 0.014 min
Lab File: SCK03.D
Acq: 20 Mar 2008 10:58 am

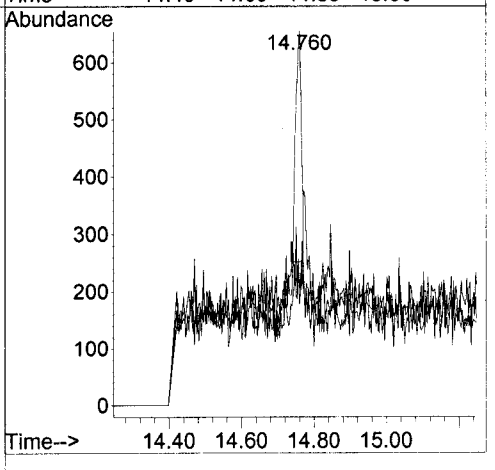
Tgt Ion:178 Resp: 434

Ion	Ratio	Lower	Upper
178	100		
179	27.1	0.0	36.0
176	31.4	0.7	40.7



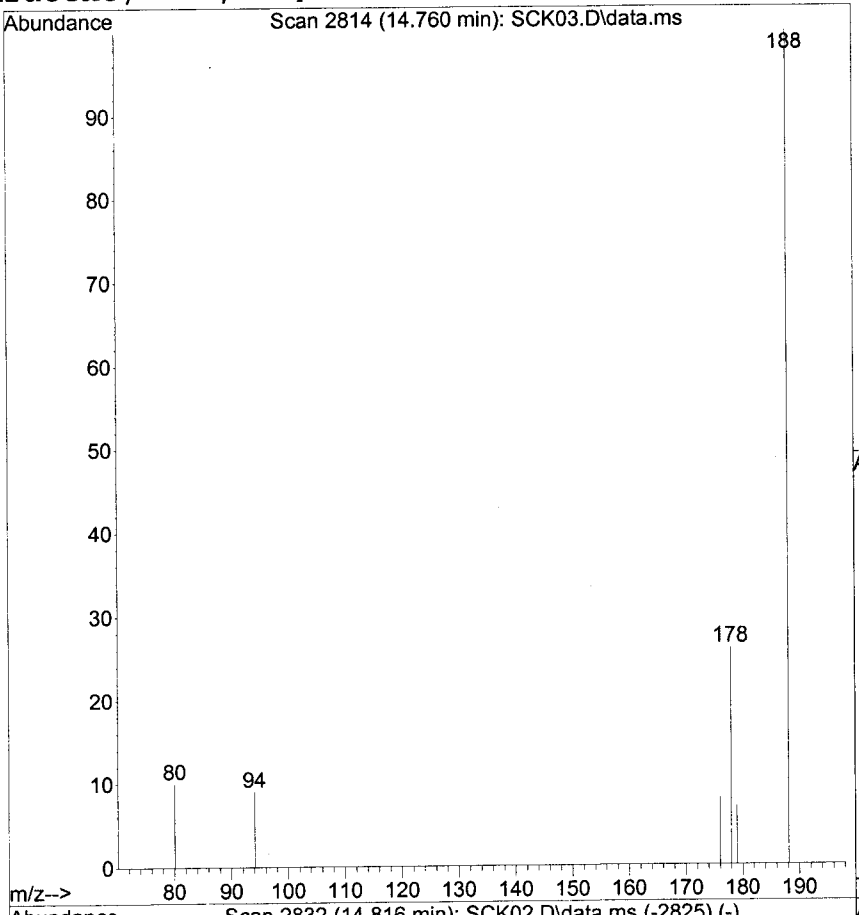
Ref





[Anthracene; <RL; u]

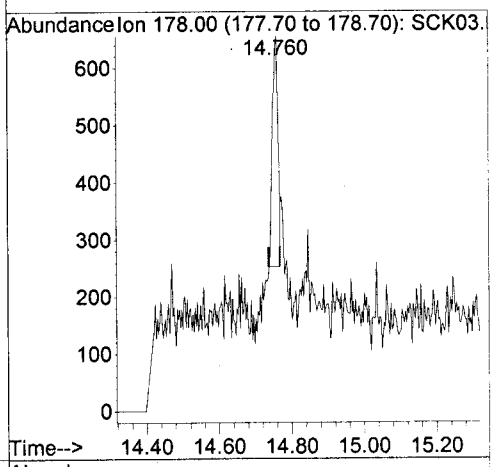
Raw



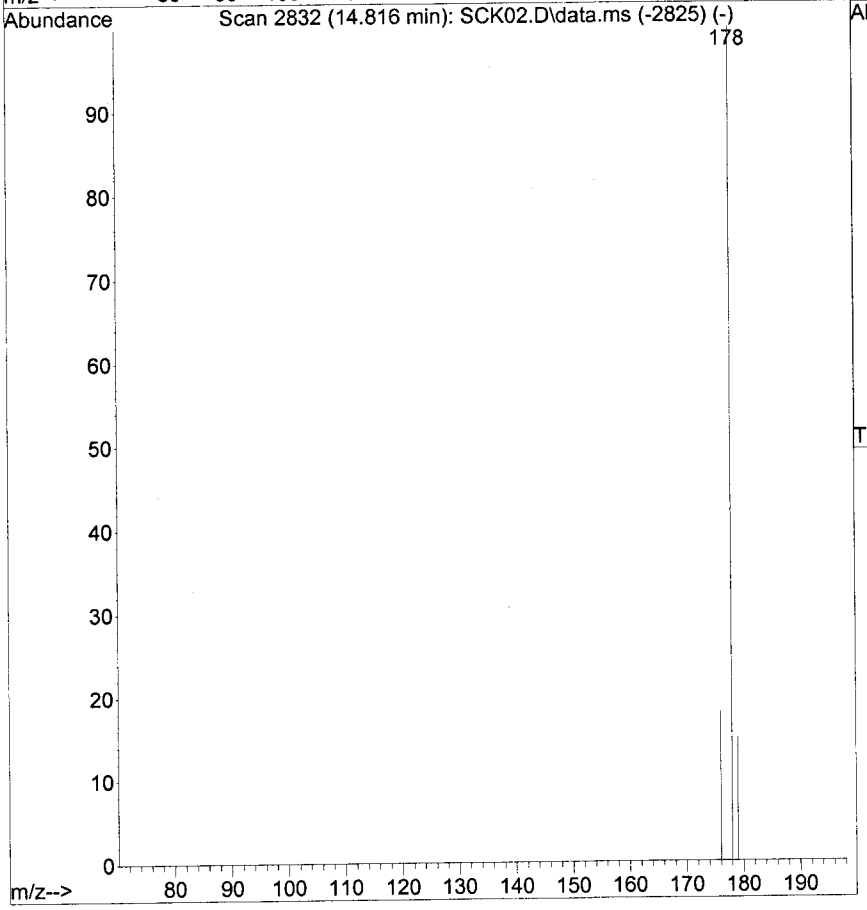
#15
Anthracene
Concen: 0.0067 ug/mL
RT: 14.760 min Scan# 2814
Delta R.T. -0.056 min
Lab File: SCK03.D
Acq: 20 Mar 2008 10:58 am

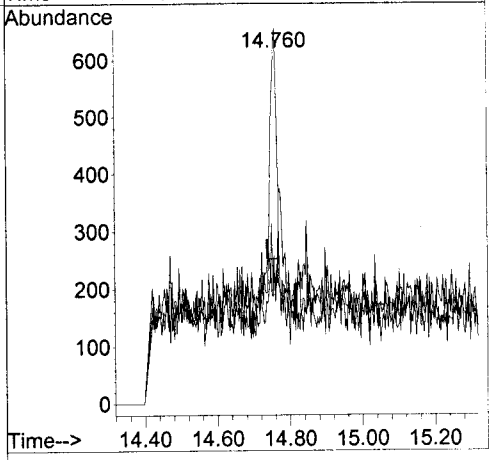
Tgt Ion:178 Resp: 434

Ion	Ratio	Lower	Upper
178	100		
179	27.1	0.0	38.7
176	31.4	0.0	39.5



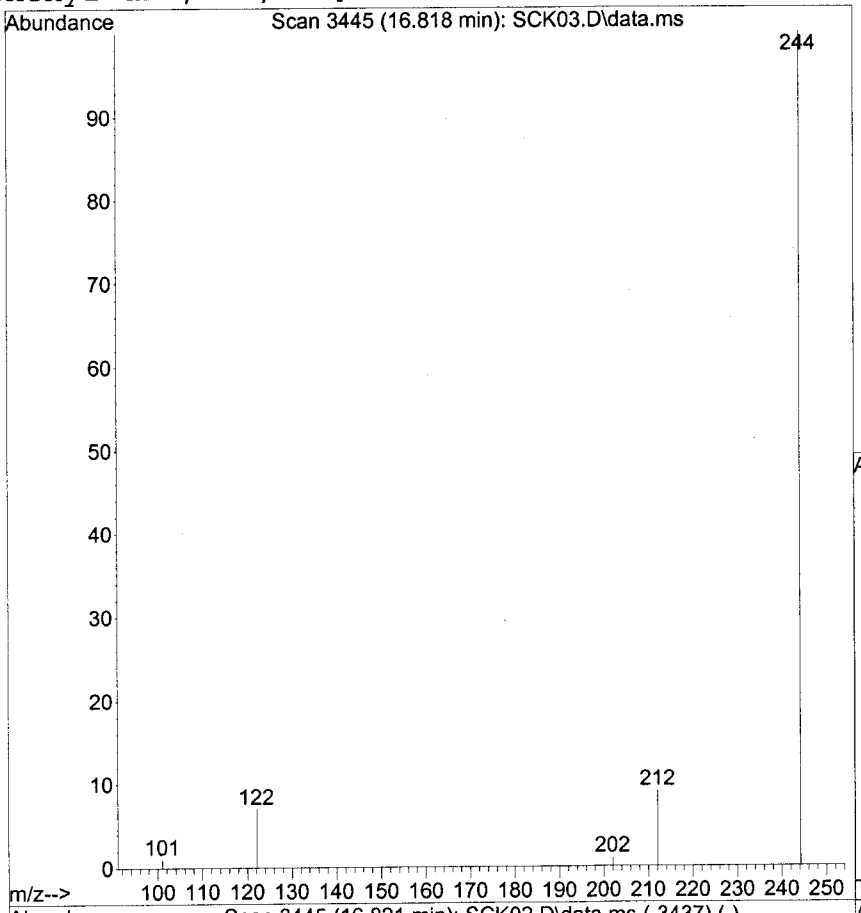
Ref





[Terphenyl-d14; 35; u]

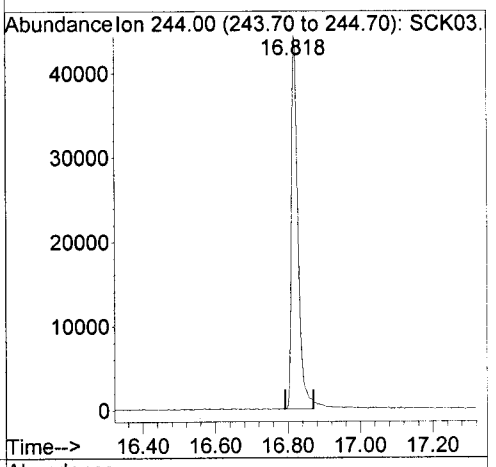
Raw



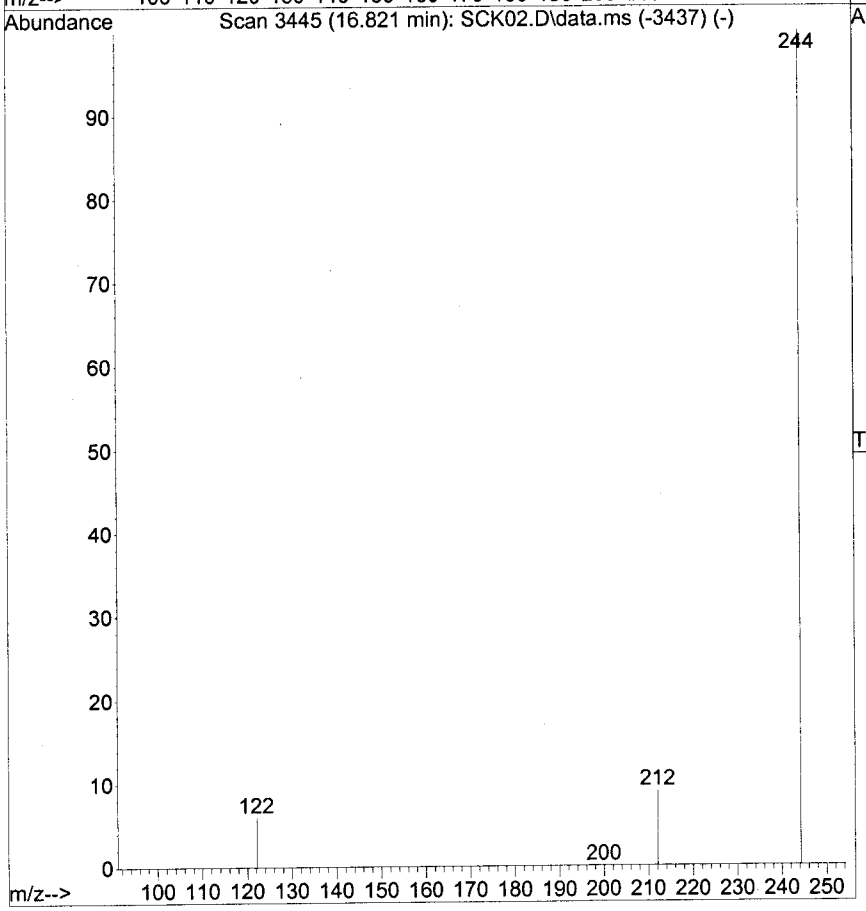
#19
Terphenyl-d14
Concen: 1.0426 ug/mL
RT: 16.818 min Scan# 3445
Delta R.T. -0.003 min
Lab File: SCK03.D
Acq: 20 Mar 2008 10:58 am

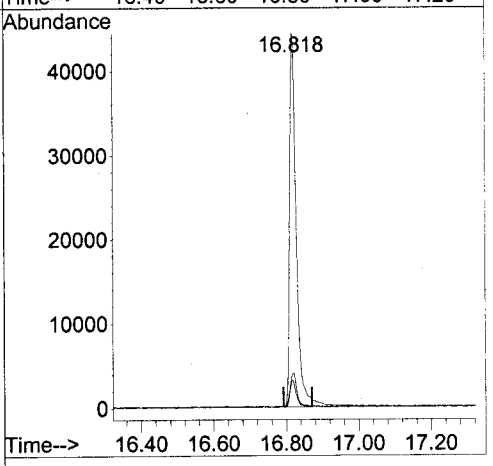
Tgt Ion:244 Resp: 55649

Ion	Ratio	Lower	Upper
244	100		
122	7.4	0.0	30.0
212	9.1	0.0	29.1



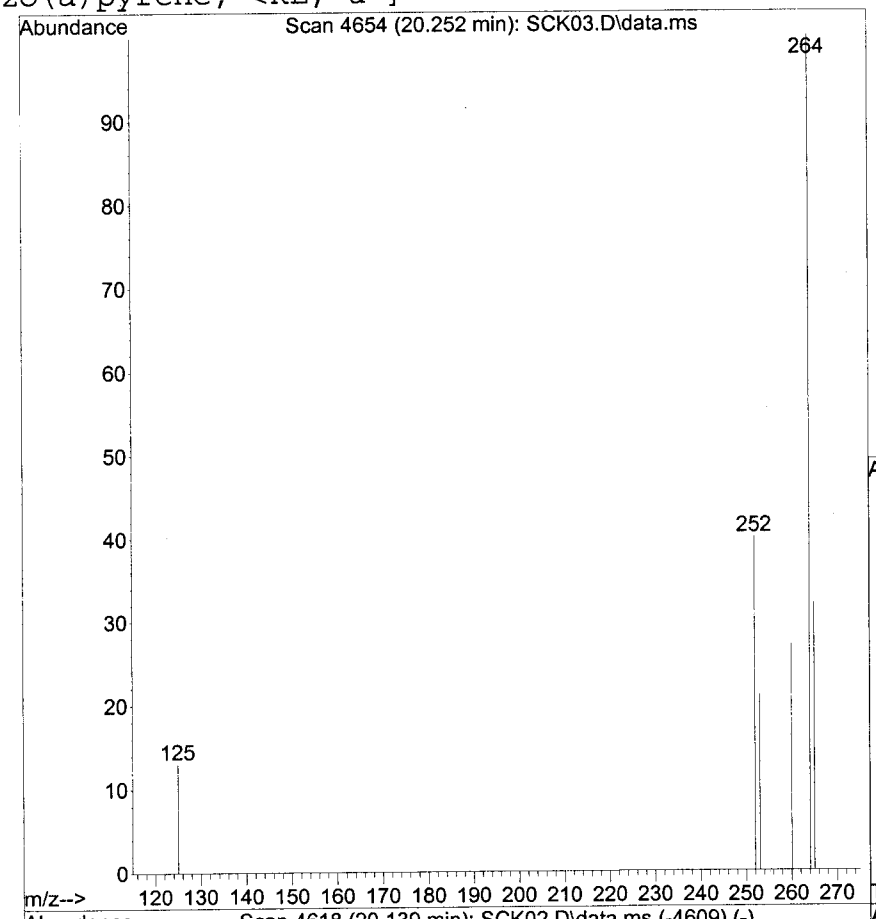
Ref





[Benzo(a)pyrene; <RL; u]

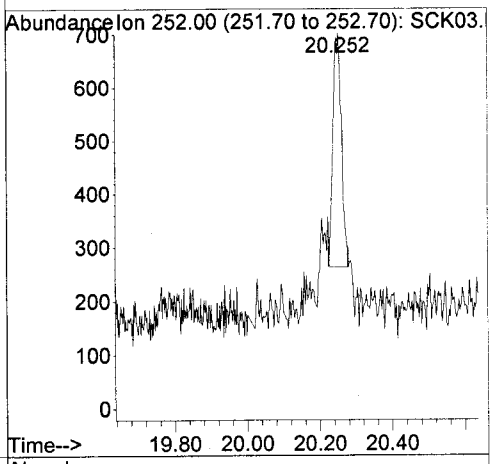
Raw



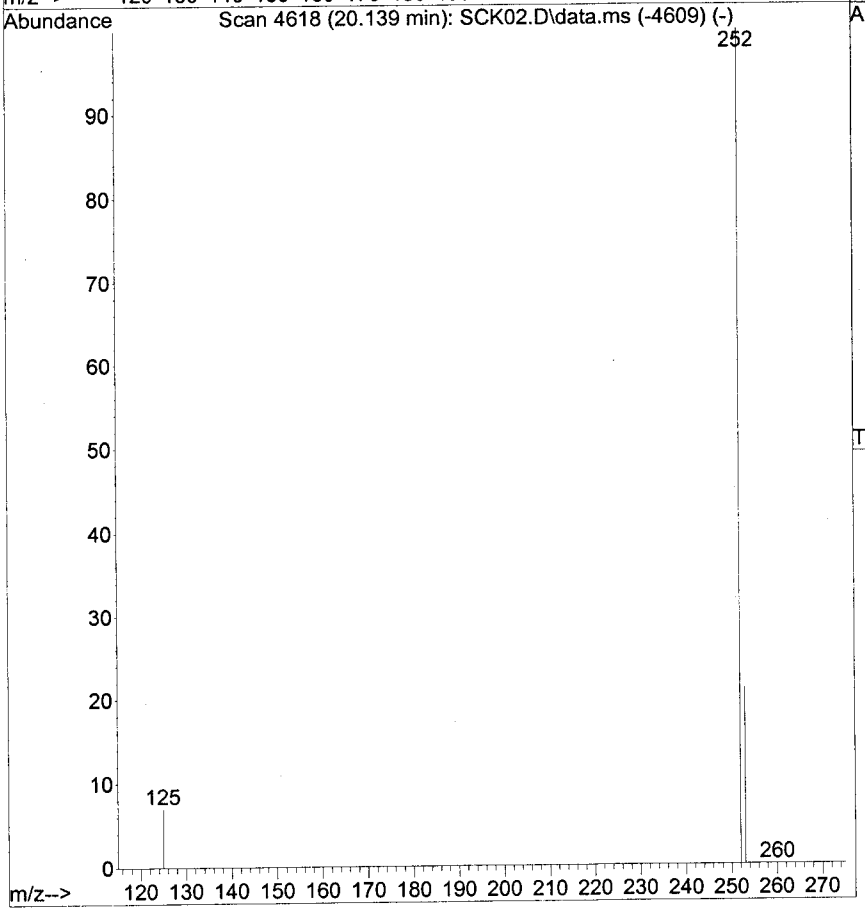
#25
Benzo(a)pyrene
Concen: 0.0115 ug/mL
RT: 20.252 min Scan# 4654
Delta R.T. 0.114 min
Lab File: SCK03.D
Acq: 20 Mar 2008 10:58 am

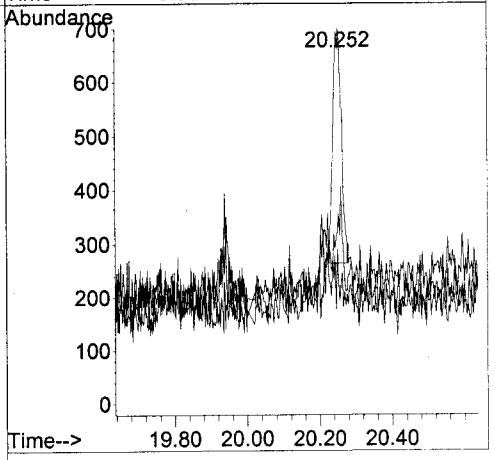
Tgt Ion:252 Resp: 713

Ion	Ratio	Lower	Upper
252	100		
253	50.8	4.8	44.8#
125	33.2	0.0	32.3#



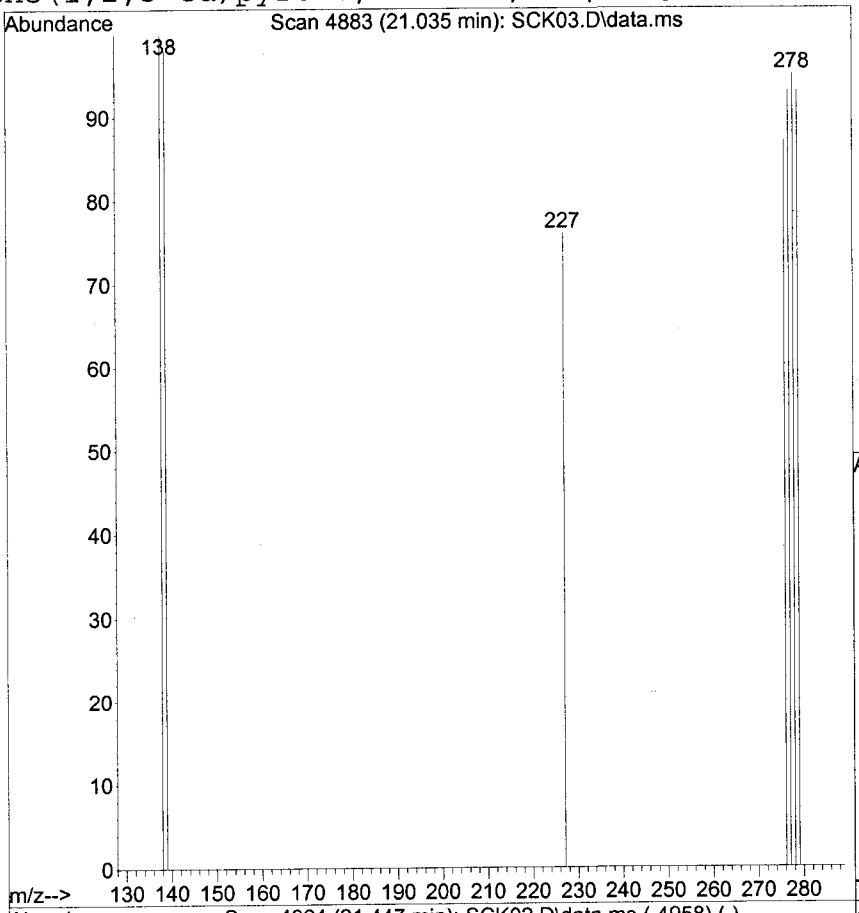
Ref





[Indeno(1,2,3-cd)pyrene; 0.69 J; FP; u]

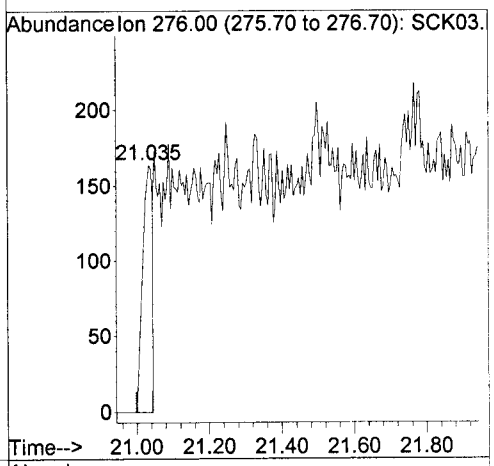
Raw



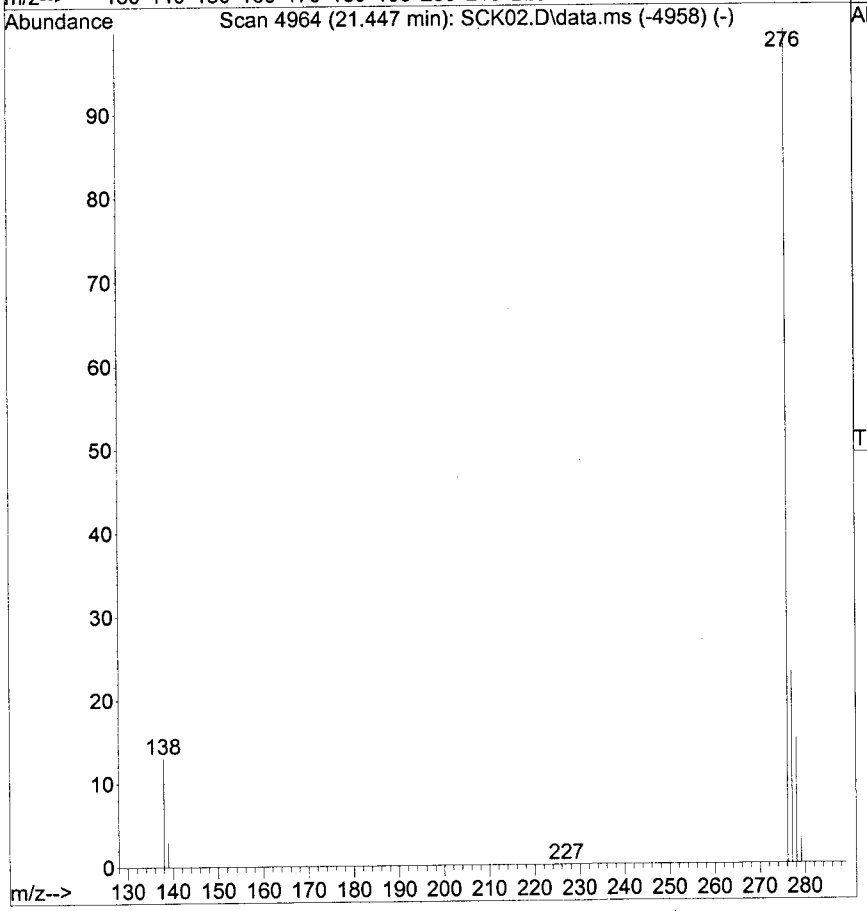
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0209 ug/mL
RT: 21.035 min Scan# 4883
Delta R.T. -0.412 min
Lab File: SCK03.D
Acq: 20 Mar 2008 10:58 am

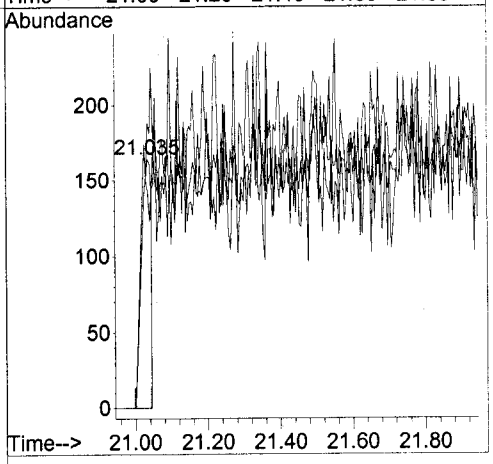
Tgt Ion:276 Resp: 407

Ion	Ratio	Lower	Upper
276	100		
138	114.6	2.0	42.0#
227	87.2	0.0	26.7#



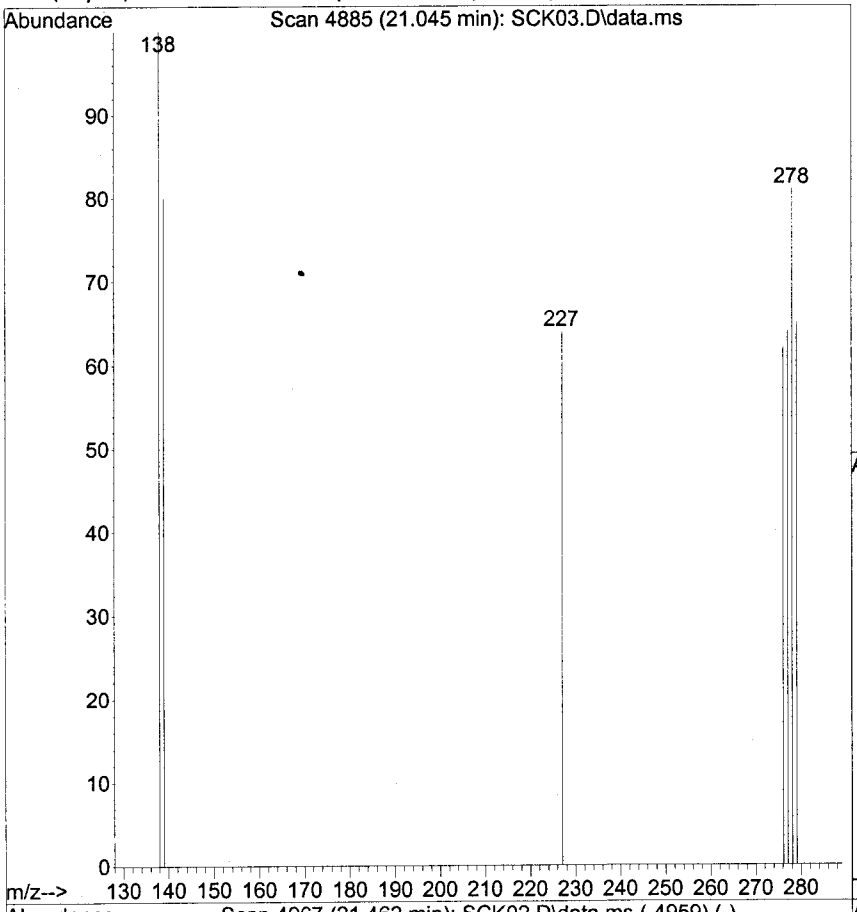
Ref





[Dibenz(a,h)anthracene; 1.5 J; FP; u]

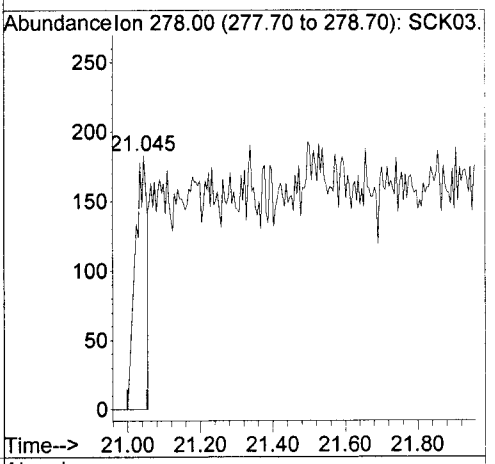
Raw



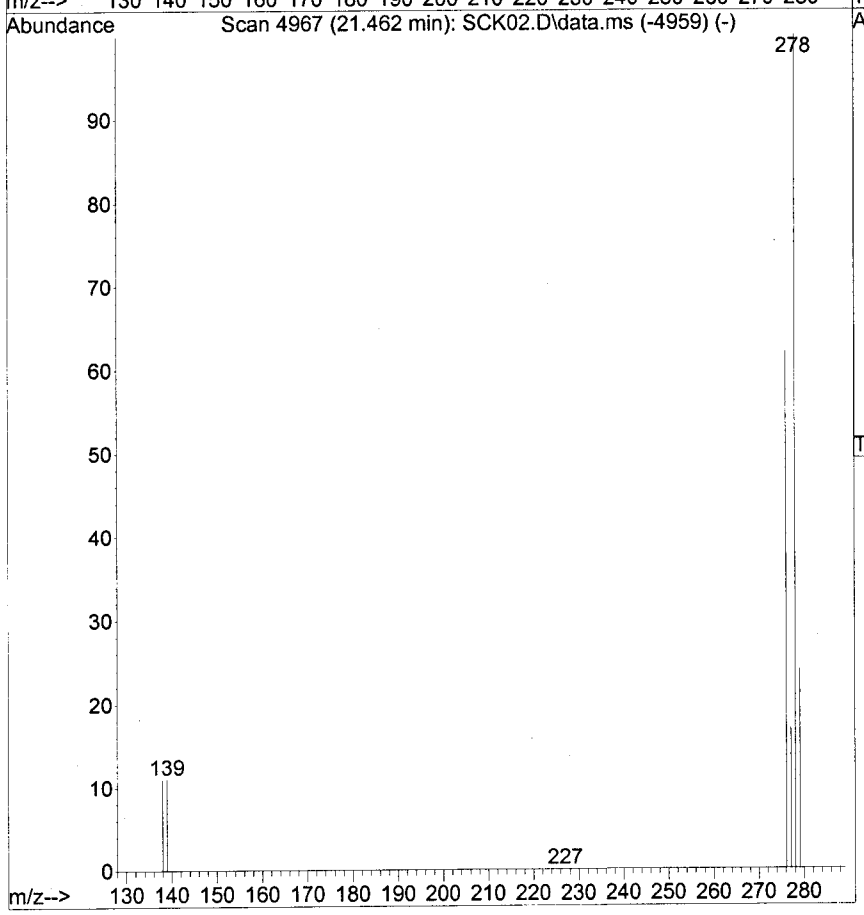
#27
Dibenz(a,h)anthracene
Concen: 0.0464 ug/mL
RT: 21.045 min Scan# 4885
Delta R.T. -0.417 min
Lab File: SCK03.D
Acq: 20 Mar 2008 10:58 am

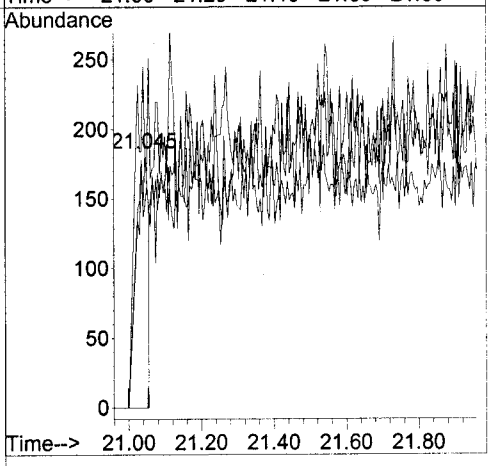
Tgt Ion:278 Resp: 499

Ion	Ratio	Lower	Upper
278	100		
139	98.9	8.1	48.1#
279	80.3	15.9	55.9#



Ref





CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst	: MSBNA08	Lab ID	: 202043-005	Client ID	: 1065EX311[8.5]
Seqnum	: 578115801013	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: sck13	Batch	: 136173	Time	: 20-MAR-2008 16:40
Cal	: 578083102001	Caldate	: 26-FEB-2008		
IDF	: 2.0	Raw Units	: ug/mL	Units	: ug/Kg

30.42 g --> 1.0 ml = 0.03287 ml/g PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.02180	ND	9.9		u
2-Methylnaphthalene	0.04650	3.1 J	9.9		u
Acenaphthylene	0.007800	ND	9.9		u
Acenaphthene	0.008400	ND	9.9		u
Fluorene	0.004200	ND	9.9		u
Phenanthrene	0.03240	2.1 J	9.9		u
Anthracene	0.006600	ND	9.9		m u
Fluoranthene	0.03740	2.5 J	9.9		u
Pyrene	0.05040	3.3 J	9.9		u
Benzo(a)anthracene	0.03810	2.5 J	9.9		m u
Chrysene	0.1002	6.6 J	9.9		m u
Benzo(b)fluoranthene	0.1160	7.6 J	9.9		m u
Benzo(k)fluoranthene	0.03430	2.3 J	9.9		m u
Benzo(a)pyrene	0.06010	4.0 J	9.9		u
Indeno(1,2,3-cd)pyrene	0.07130	4.7 J	9.9		u
Dibenz(a,h)anthracene	0.06850	4.5 J	9.9		u
Benzo(g,h,i)perylene	0.1449	9.5 J	9.9		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.6015	32.87	39.55	120	23-120	m u
2-Fluorobiphenyl	0.4464	32.87	29.35	89	30-115	u
Terphenyl-d14	0.4430	32.87	29.13	89	18-137	u

ISTD (CCV sck02)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE R	Drift
Naphthalene-d8	64577	64519	-0.09	10.60	10.59	-0.01
Acenaphthene-d10	45669	40721	-10.83	12.82	12.82	0.00
Phenanthrene-d10	83109	71925	-13.46	14.72	14.72	0.00
Chrysene-d12	92399	73986	-19.93	18.27	18.28	0.01
Perylene-d12	87612	92892	6.03	20.21	20.23	0.02

03/20/08 : DV Benzo b&k check

AD 03/21/08 : Was diluted due to the dark and viscous nature of the sample extract.

AD 03/21/08 : NT interference with benzo(b/k)fluoranthene make it hard to separate isomers (see vck11). Esimated values OK to report.

LLH 03/21/08 [Nitrobenzene-d5]: surrogate recovery well within limits even at 2x dilution, see reanalysis file VCK11.

(not in upper half)

JAJ: 03/21/08 LLH: 03/21/08 EAH: 03/21/08

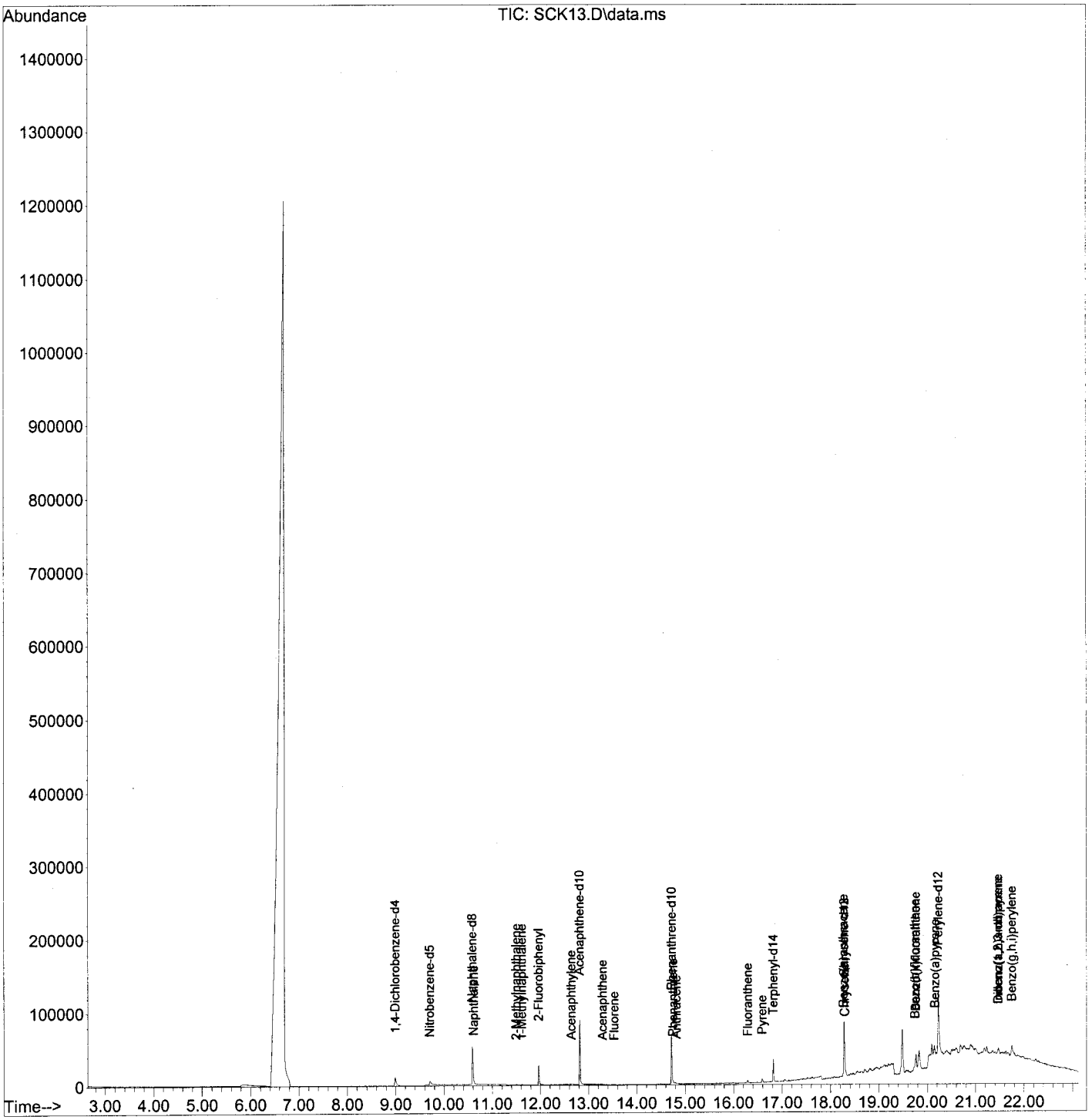
m=manual integration u=use

578115801013

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK13.D
Acq On : 20 Mar 2008 4:40 pm
Operator :
Sample : S,202043-005
Misc : 136173,2, //DV Benzo b&k check
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 21 10:03:27 2008
Quant Method : G:\msbna08\032008\8PAHSIM.m
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration



00125

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK13.D
Acq On : 20 Mar 2008 4:40 pm
Operator :
Sample : S,202043-005
Misc : 136173,2, //DV Benzo b&k check
ALS Vial : 13 Sample Multiplier: 1

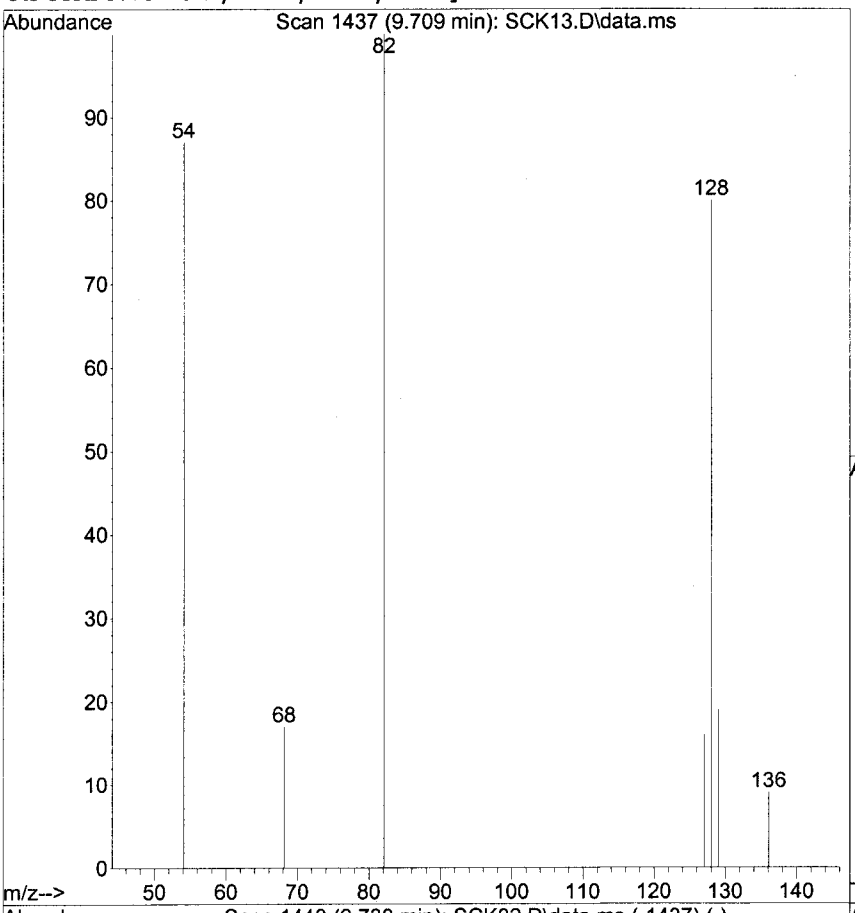
Quant Time: Mar 21 10:03:27 2008
Quant Method : G:\msbna08\032008\8PAHSIM.m
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	8.990	152	16143	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.588	136	64519	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.816	164	40721	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.718	188	71925	1.0000	ug/mL	0.00
17) Chrysene-d12	18.280	240	73986	1.0000	ug/mL	0.00
22) Perylene-d12	20.228	264	92892	1.0000	ug/mL	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.		
4) Nitrobenzene-d5	9.709	82	4543m	0.6015	ug/mL	
5) Naphthalene	10.615	128	1434	0.0218	ug/mL	# 29
6) 2-Methylnaphthalene	11.502	142	658	0.0465	ug/mL	95
7) 1-Methylnaphthalene	11.617	142	376	0.0078	ug/mL	93
9) 2-Fluorobiphenyl	11.966	172	23879	0.4464	ug/mL	97
10) Acenaphthylene	12.639	152	536	0.0078	ug/mL	# 52
11) Acenaphthene	13.290	154	349	0.0084	ug/mL	# 56
12) Fluorene	13.530	166	202	0.0042	ug/mL	# 75
14) Phenanthrene	14.751	178	2526	0.0324	ug/mL	84
15) Anthracene	14.819	178	520m	0.0066	ug/mL	
16) Fluoranthene	16.294	202	3407	0.0374	ug/mL	85
18) Pyrene	16.592	202	4779	0.0504	ug/mL	83
19) Terphenyl-d14	16.819	244	31488	0.4430	ug/mL	96
20) Benzo(a)anthracene	18.267	228	3070m	0.0381	ug/mL	
21) Chrysene	18.295	228	9084m	0.1002	ug/mL	
23) Benzo(b)fluoranthene	19.747	252	7867m	0.1160	ug/mL	
24) Benzo(k)fluoranthene	19.762	252	4099m	0.0343	ug/mL	
25) Benzo(a)pyrene	20.162	252	6261	0.0601	ug/mL	# 1
26) Indeno(1,2,3-cd)pyrene	21.471	276	5727	0.0713	ug/mL	# 1
27) Dibenz(a,h)anthracene	21.471	278	2743	0.0685	ug/mL	# 1
28) Benzo(g,h,i)perylene	21.750	276	14997	0.1449	ug/mL	# 49

(#) = qualifier out of range (m) = manual integration (+) = signals summed

[Nitrobenzene-d5; 40; MI; u]

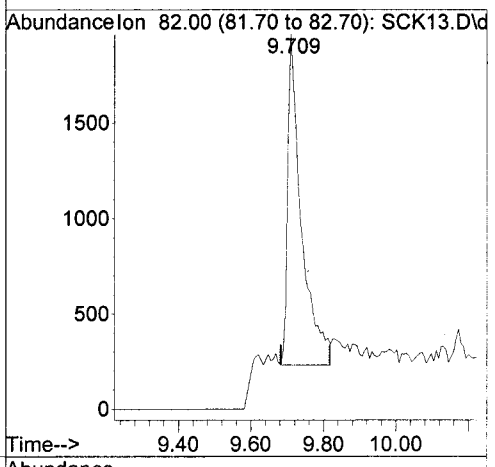
Raw



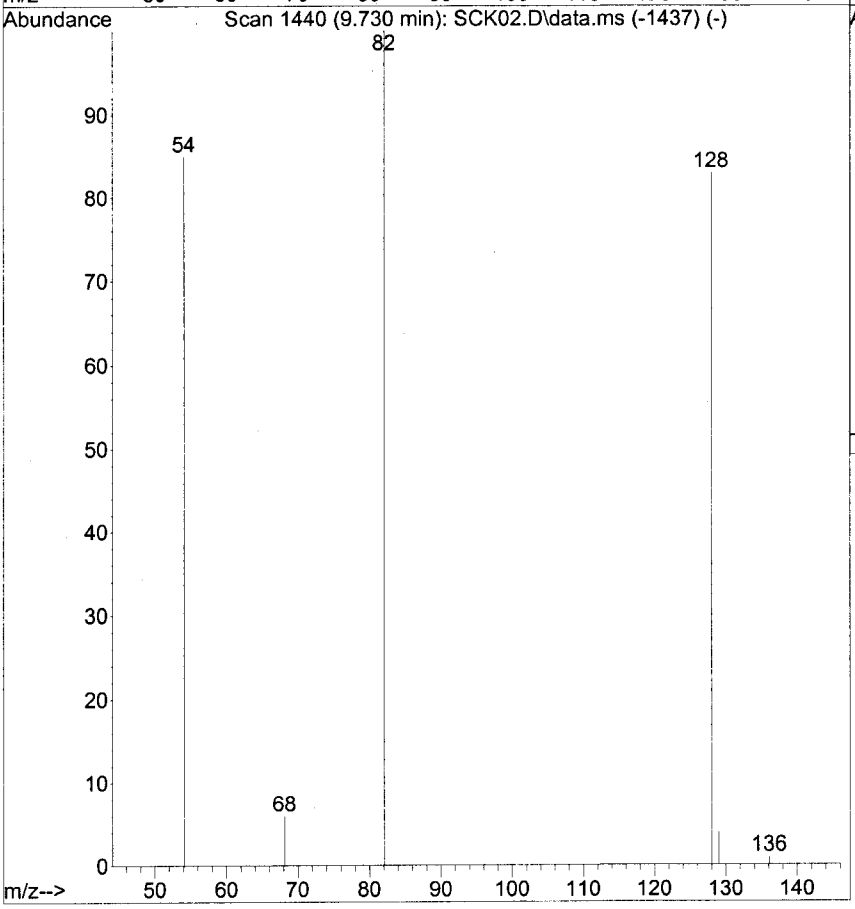
#4
Nitrobenzene-d5
Concen: 0.6015 ug/mL m
RT: 9.709 min Scan# 1437
Delta R.T. -0.021 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

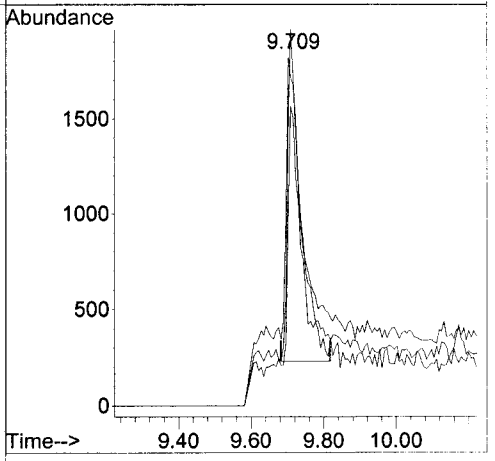
Tgt Ion: 82 Resp: 4543

Ion	Ratio	Lower	Upper
82	100		
128	86.9	52.7	92.7
54	95.2	73.3	113.3



Ref

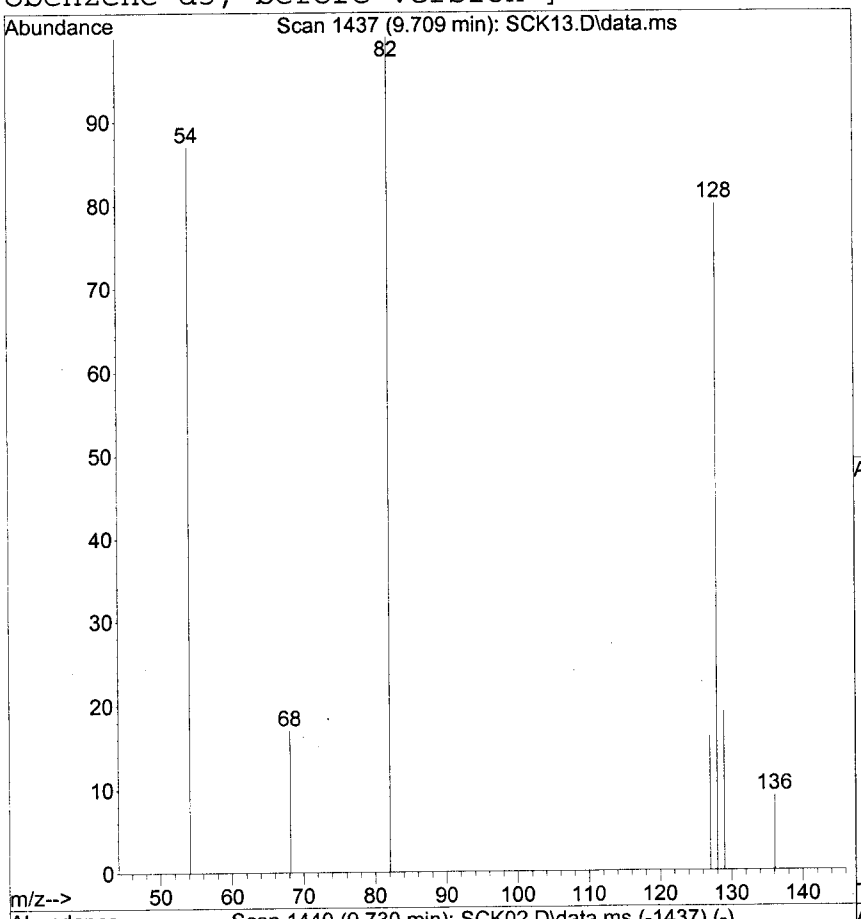




00127

[Nitrobenzene-d5; before version]

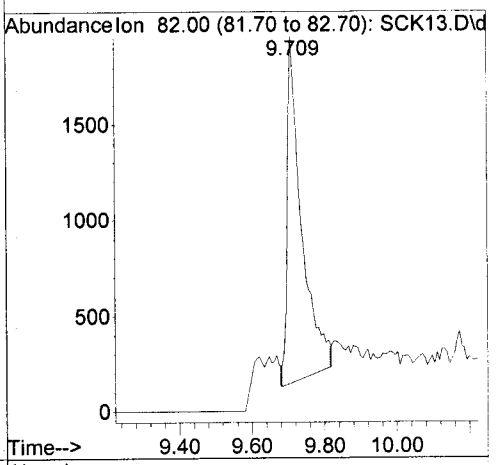
Raw



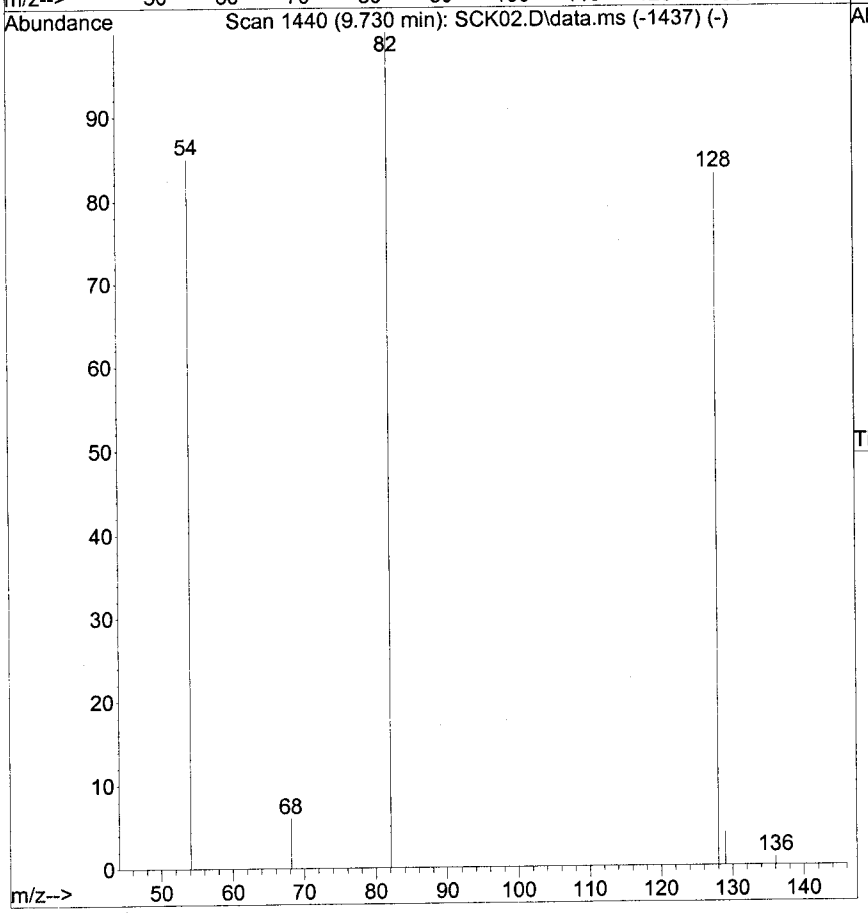
#4
Nitrobenzene-d5
Concen: 0.6362 ug/mL
RT: 9.709 min Scan# 1437
Delta R.T. -0.021 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

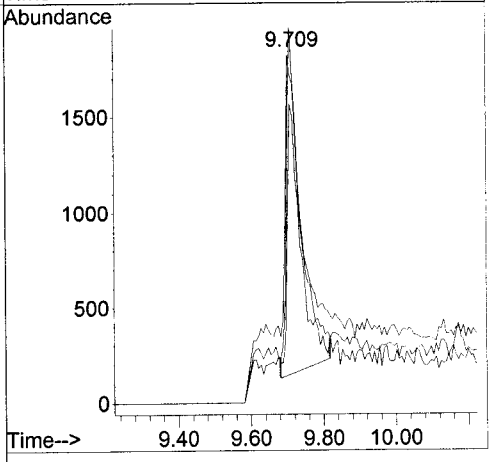
Tgt Ion: 82 Resp: 4952

Ion	Ratio	Lower	Upper
82	100		
128	79.7	52.7	92.7
54	87.3	73.3	113.3



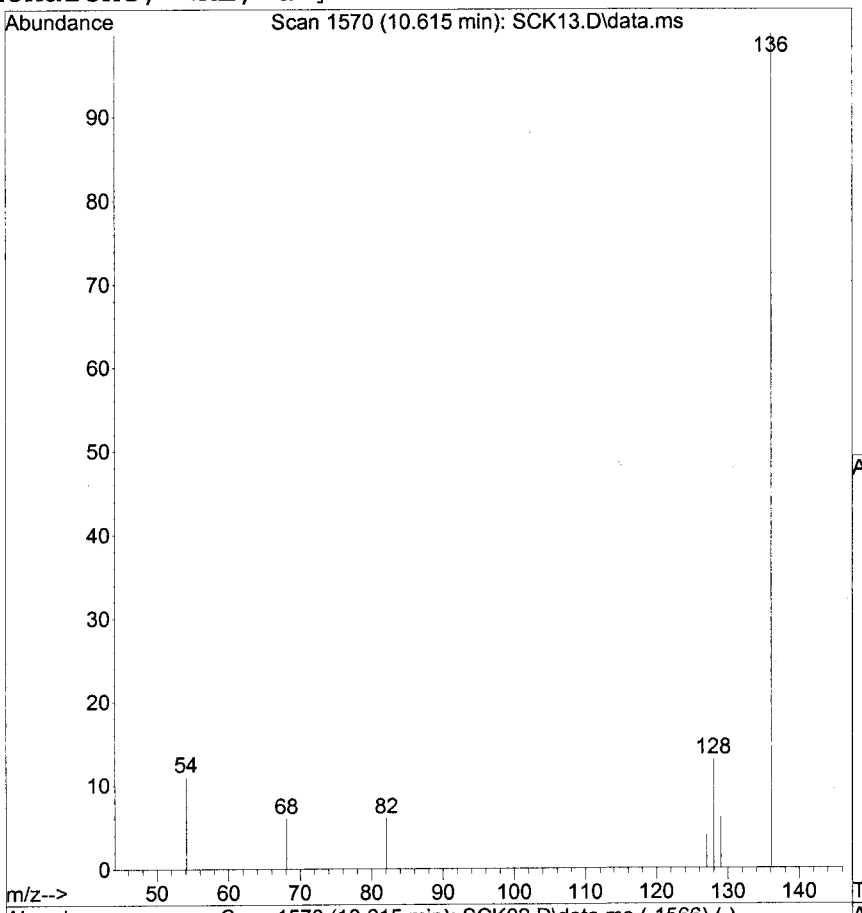
Ref





[Naphthalene; <RL; u]

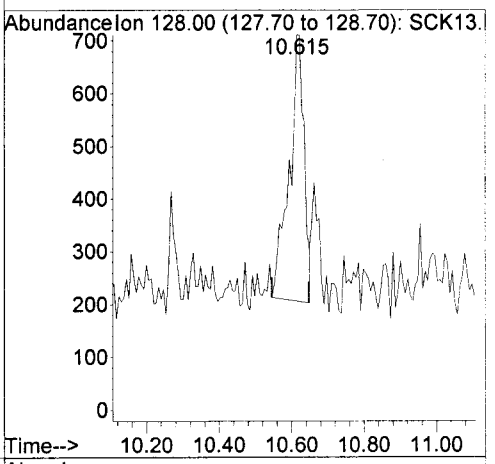
Raw



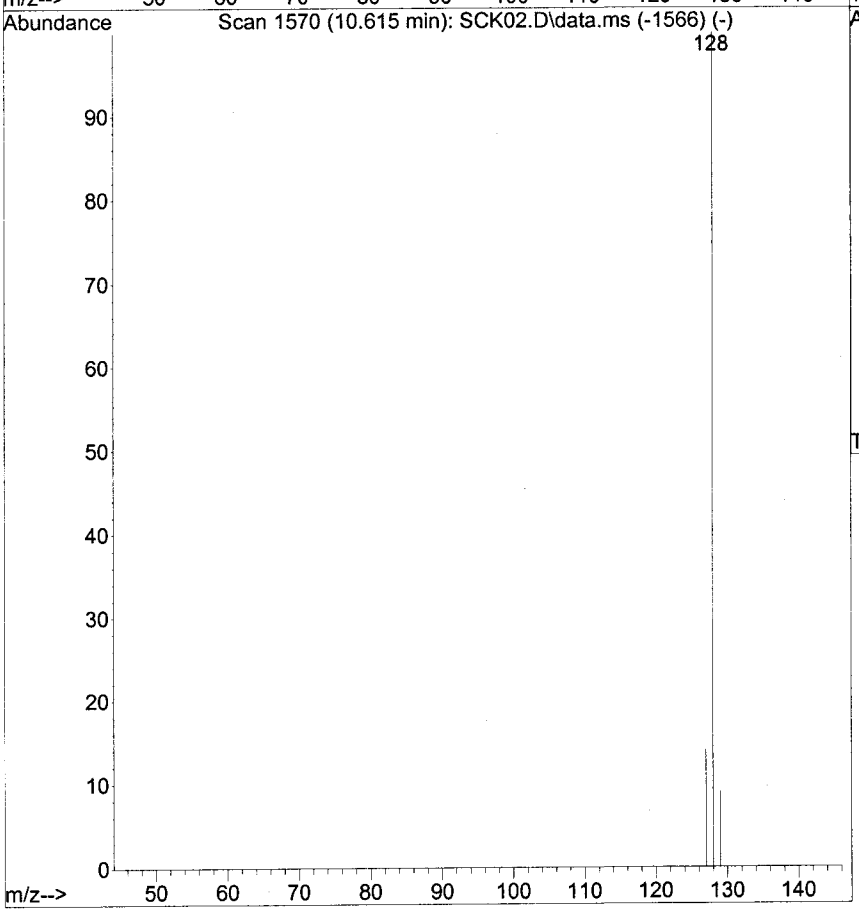
#5
Naphthalene
Concen: 0.0218 ug/mL
RT: 10.615 min Scan# 1570
Delta R.T. -0.000 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

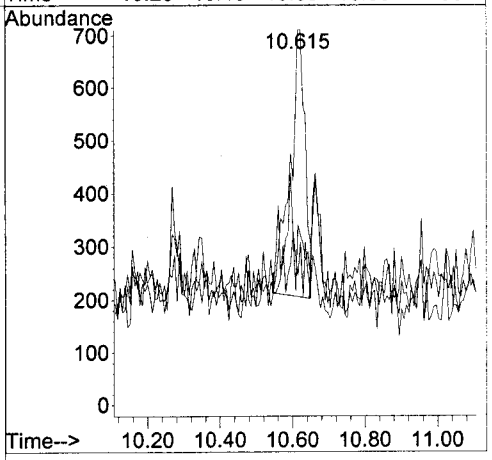
Tgt Ion:128 Resp: 1434

Ion	Ratio	Lower	Upper
128	100		
129	48.0	0.0	31.8#
127	34.6	0.0	33.9#



Ref

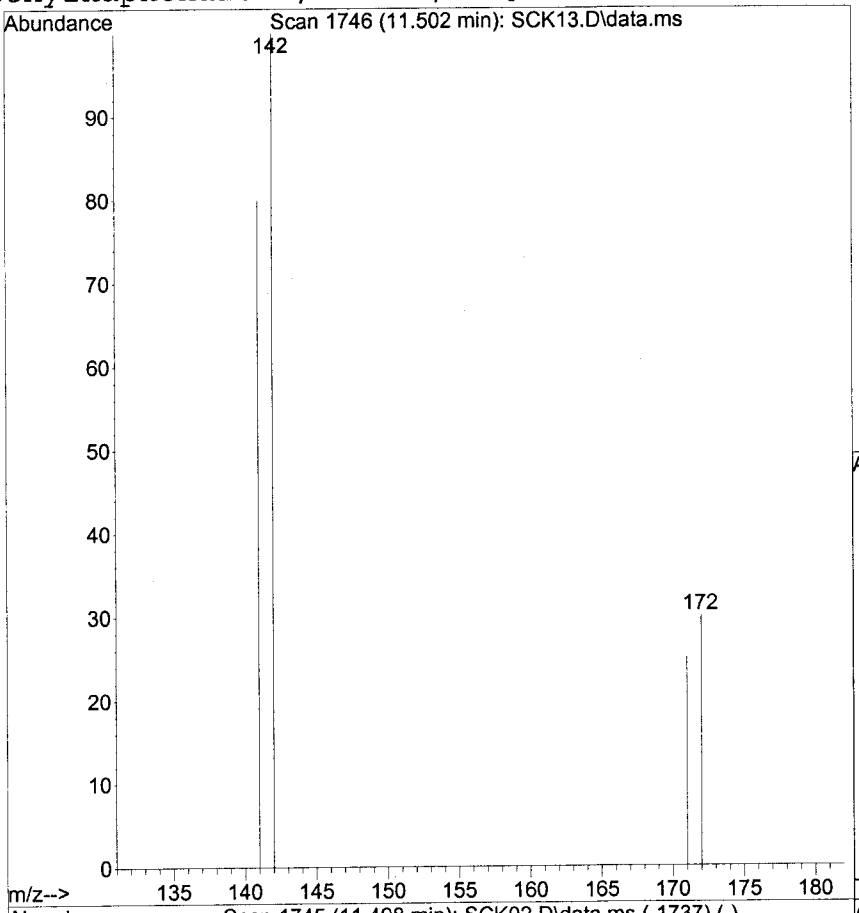




00129

[2-Methylnaphthalene; 3.1 J; u]

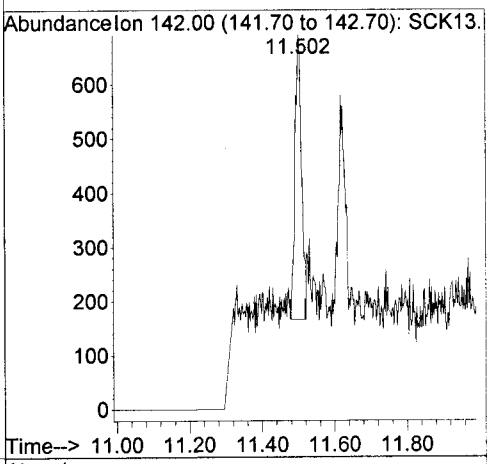
Raw



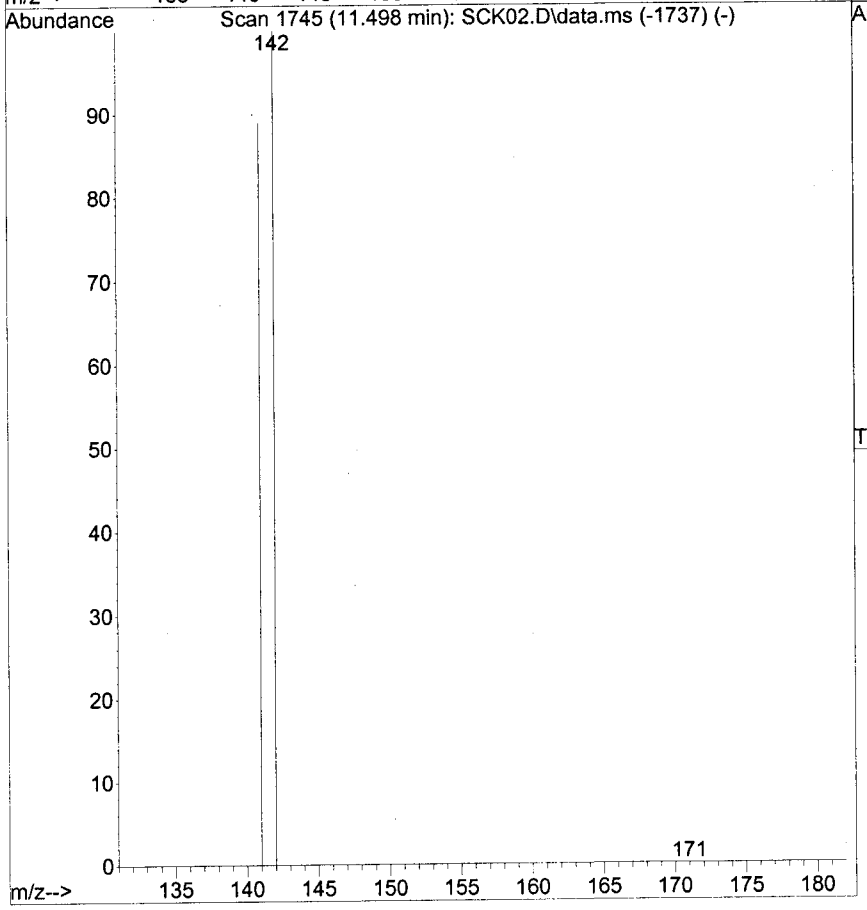
#6
2-Methylnaphthalene
Concen: 0.0465 ug/mL
RT: 11.502 min Scan# 1746
Delta R.T. 0.003 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

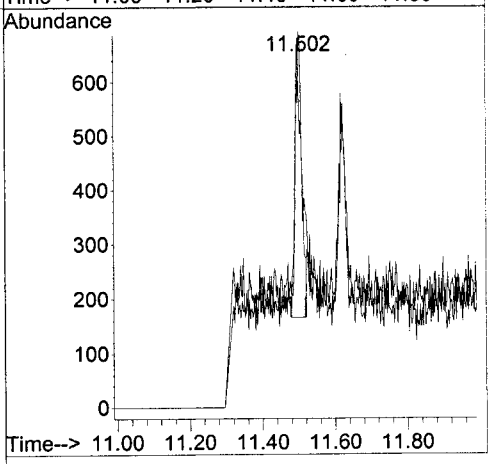
Tgt Ion:142 Resp: 658

Ion	Ratio	Lower	Upper
142	100		
141	79.9	64.5	104.5



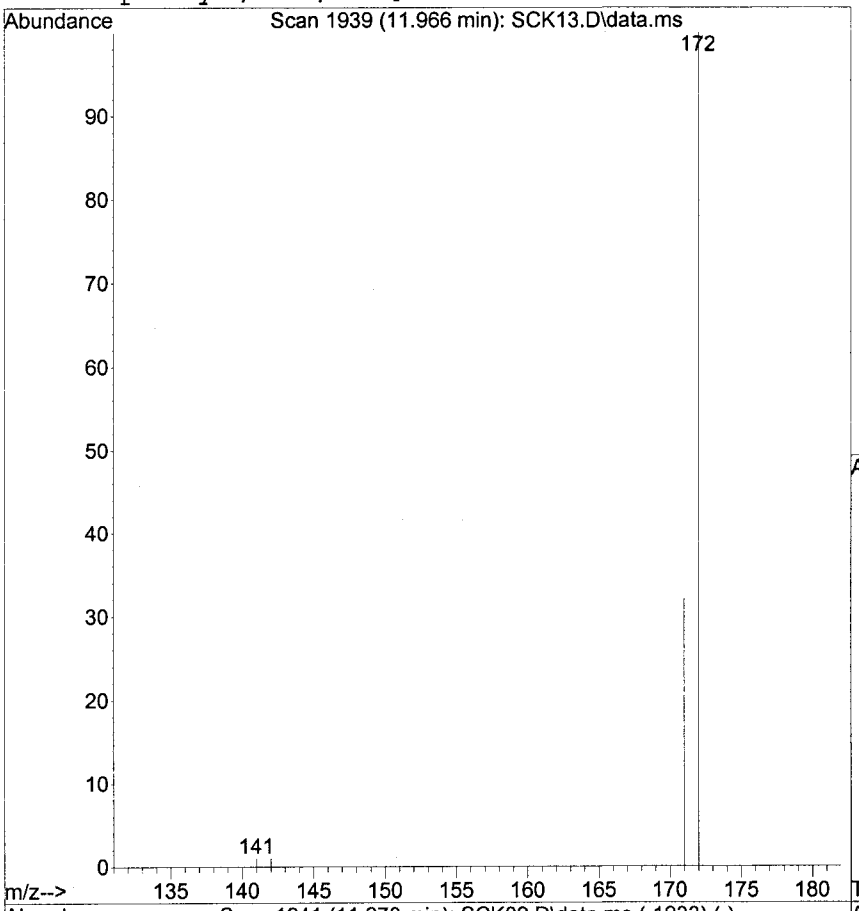
Ref





[2-Fluorobiphenyl; 29; u]

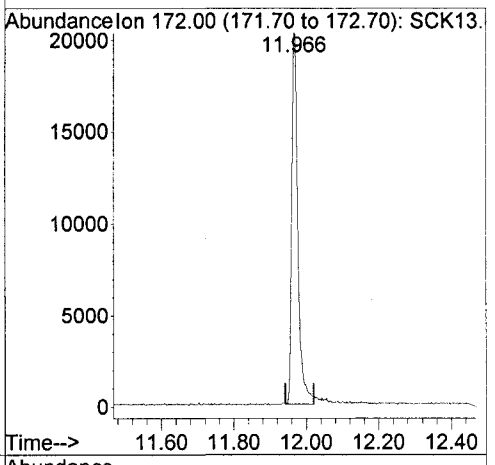
Raw



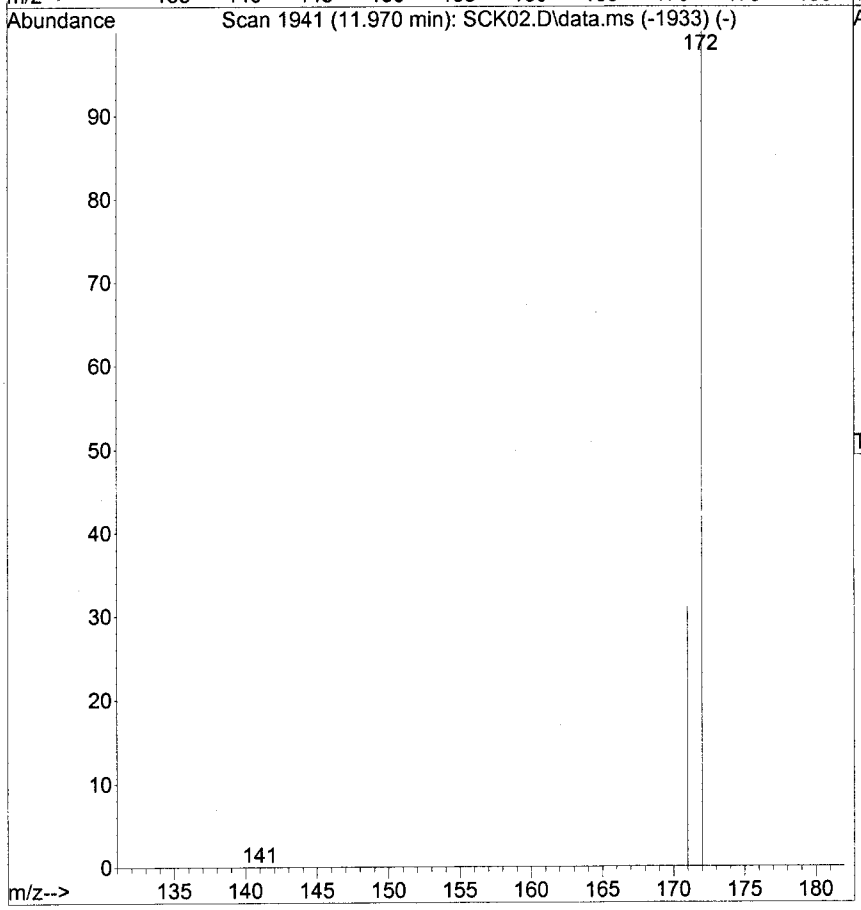
#9
2-Fluorobiphenyl
Concen: 0.4464 ug/mL
RT: 11.966 min Scan# 1939
Delta R.T. -0.004 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

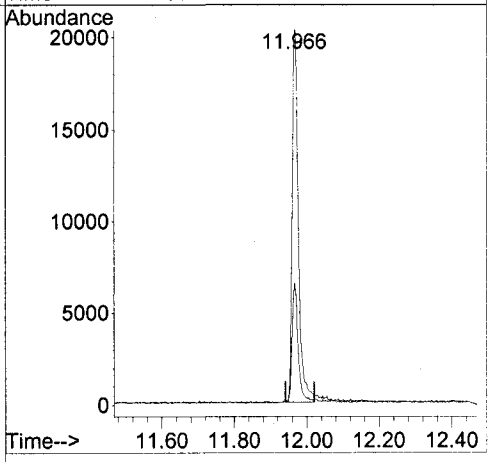
Tgt Ion:172 Resp: 23879

Ion	Ratio	Lower	Upper
172	100		
171	32.5	14.3	54.3



Ref

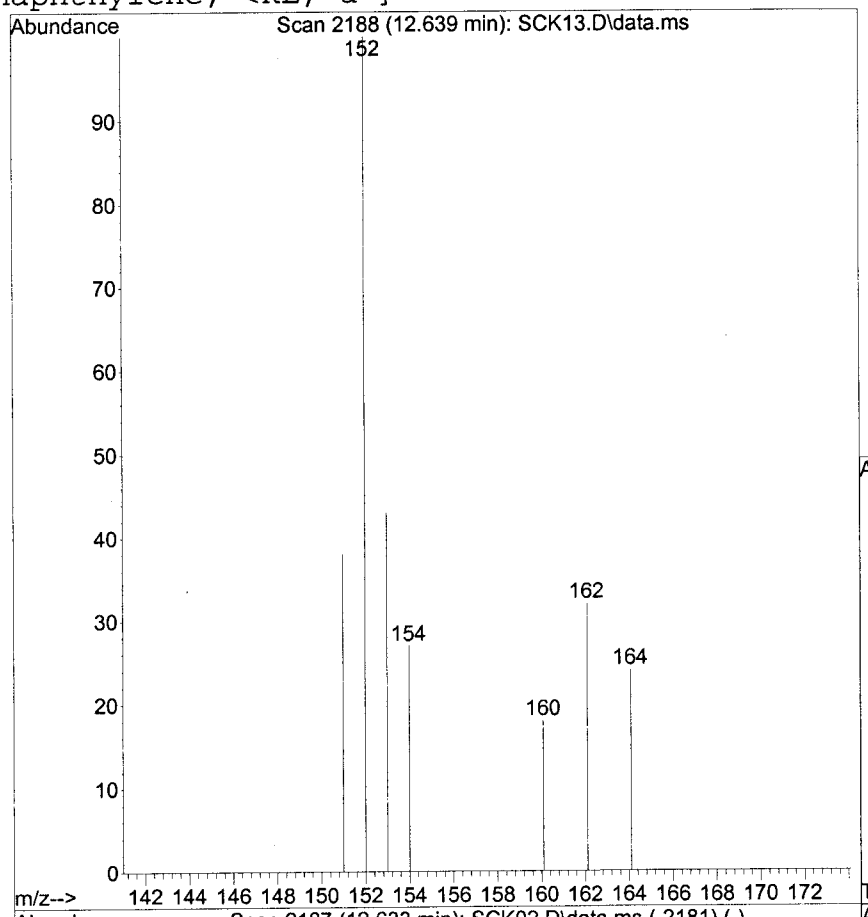




00131

[Acenaphthylene; <RL; u]

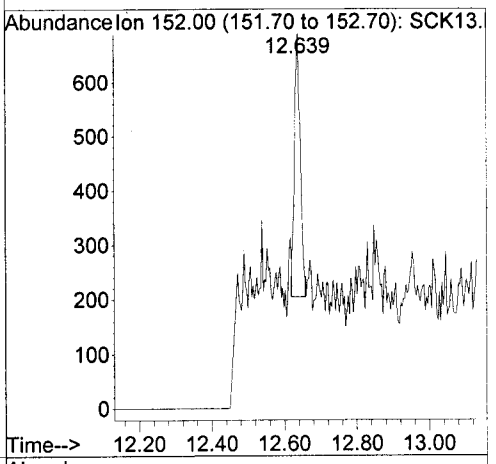
Raw



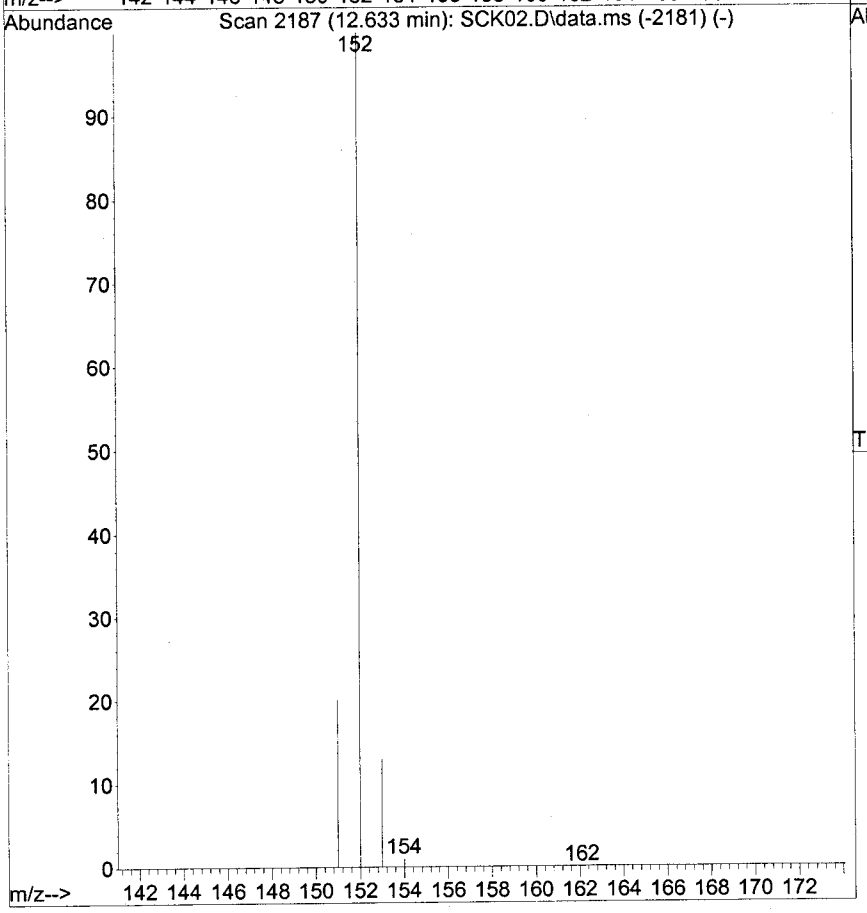
#10
Acenaphthylene
Concen: 0.0078 ug/mL
RT: 12.639 min Scan# 2188
Delta R.T. 0.006 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

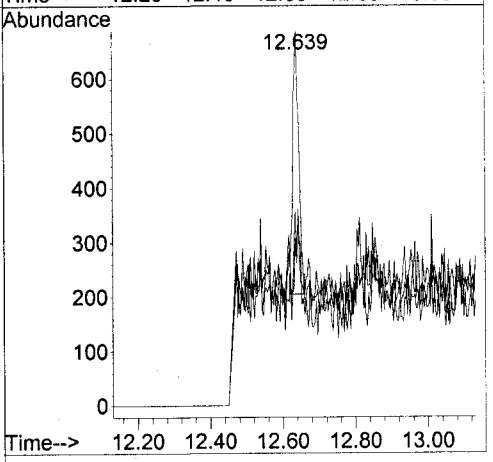
Tgt Ion:152 Resp: 536

Ion	Ratio	Lower	Upper
152	100		
151	37.9	2.3	42.3
153	43.4	0.0	34.0#



Ref

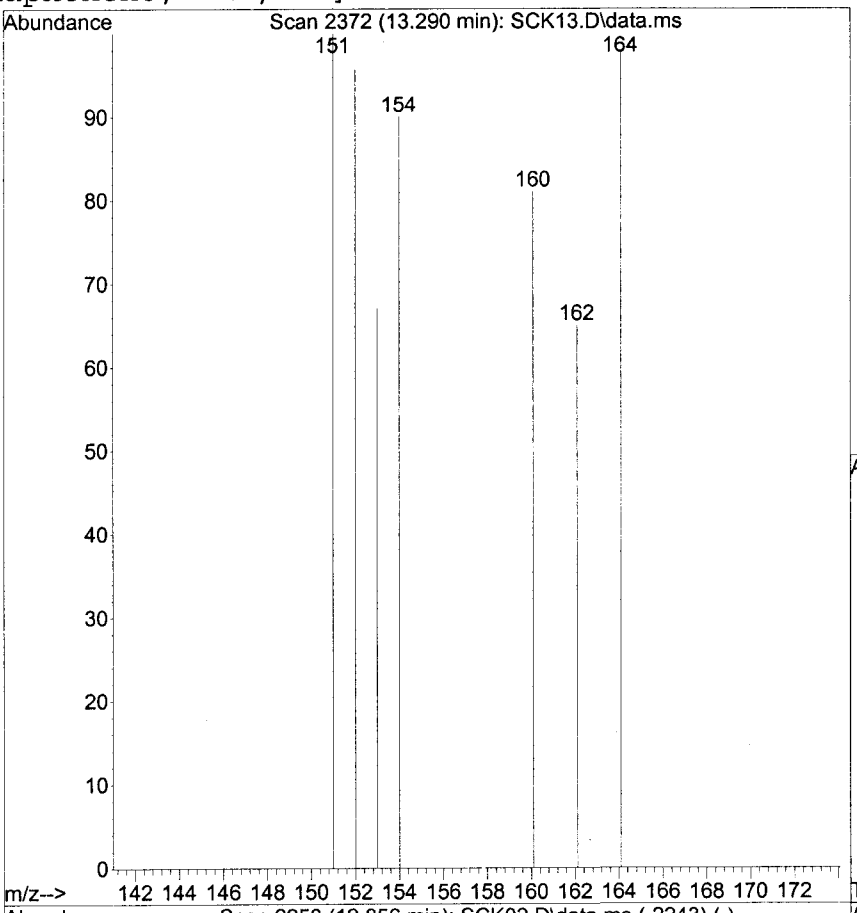




00132

[Acenaphthene; <RL; u]

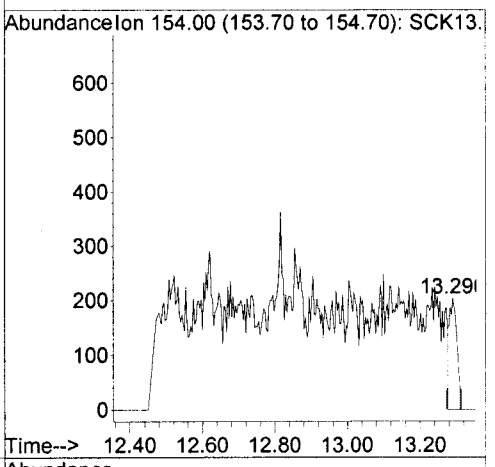
Raw



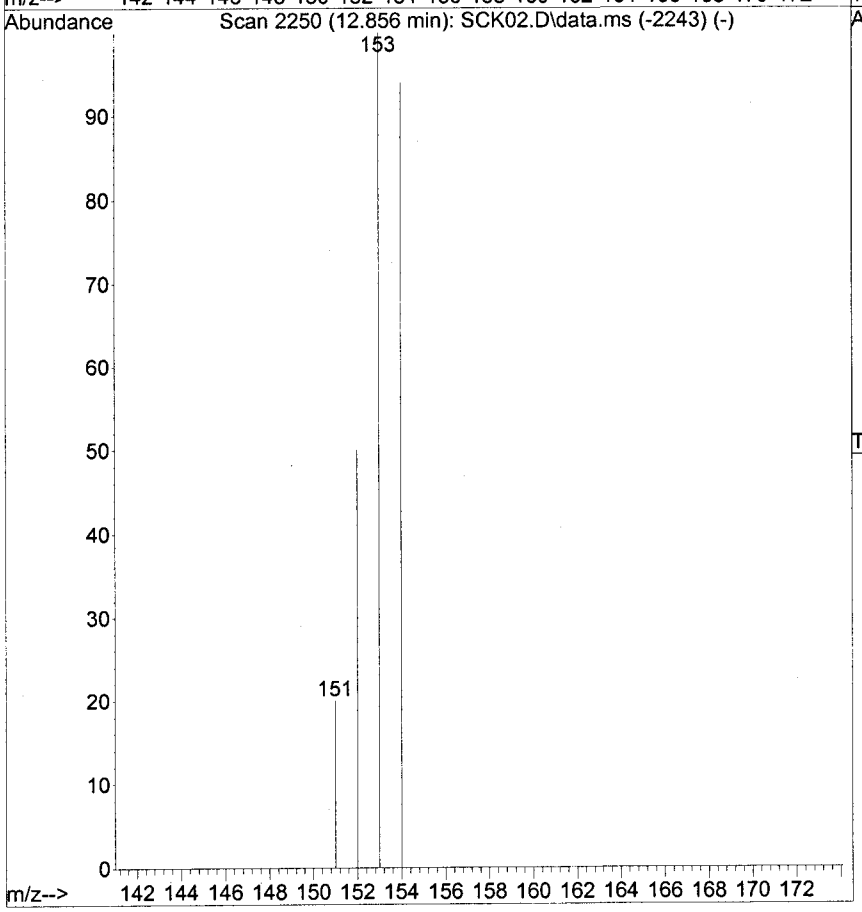
#11
Acenaphthene
Concen: 0.0084 ug/mL
RT: 13.290 min Scan# 2372
Delta R.T. 0.435 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

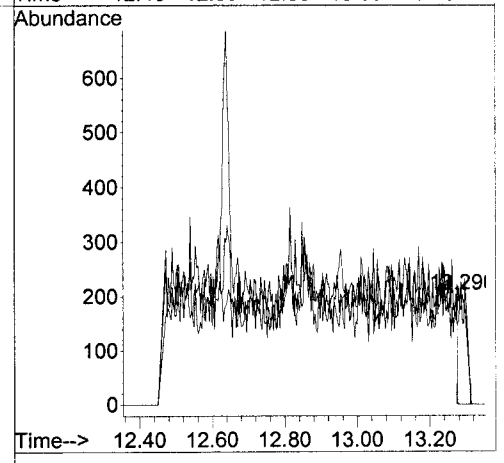
Tgt Ion:154 Resp: 349

Ion	Ratio	Lower	Upper
154	100		
152	106.4	32.3	72.3#
153	73.9	82.2	122.2#



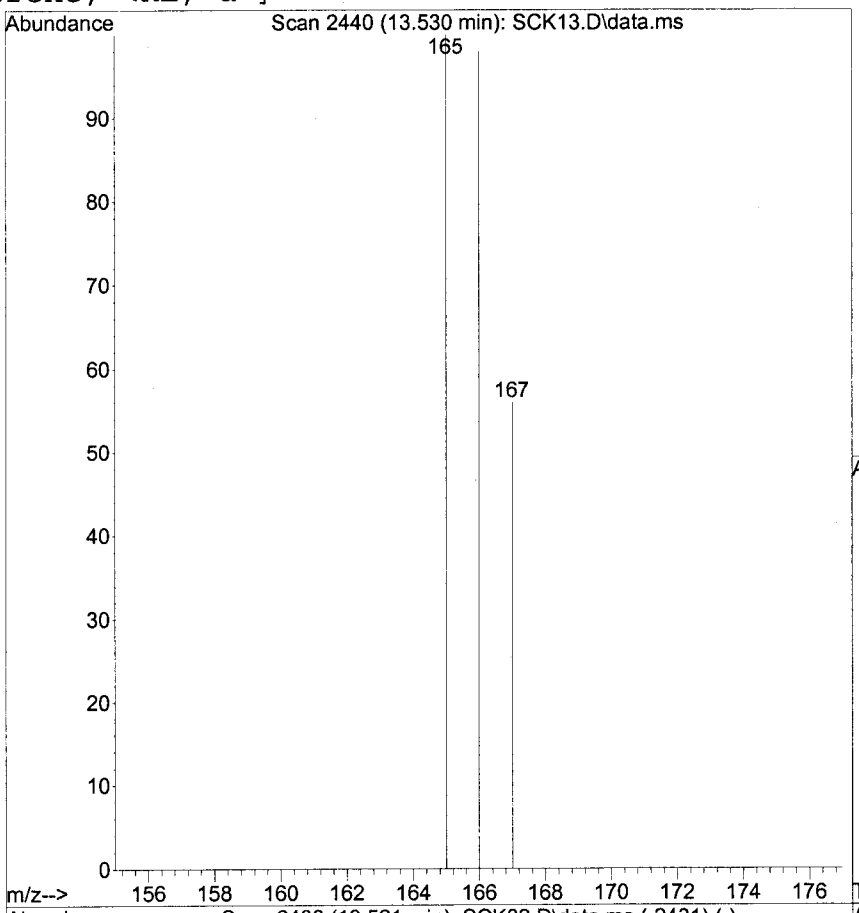
Ref





[Fluorene; <RL; u]

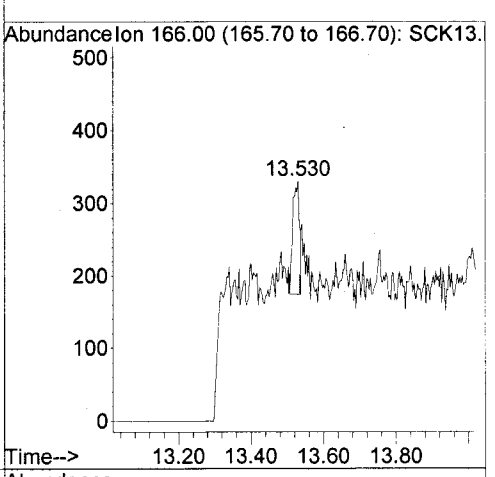
Raw



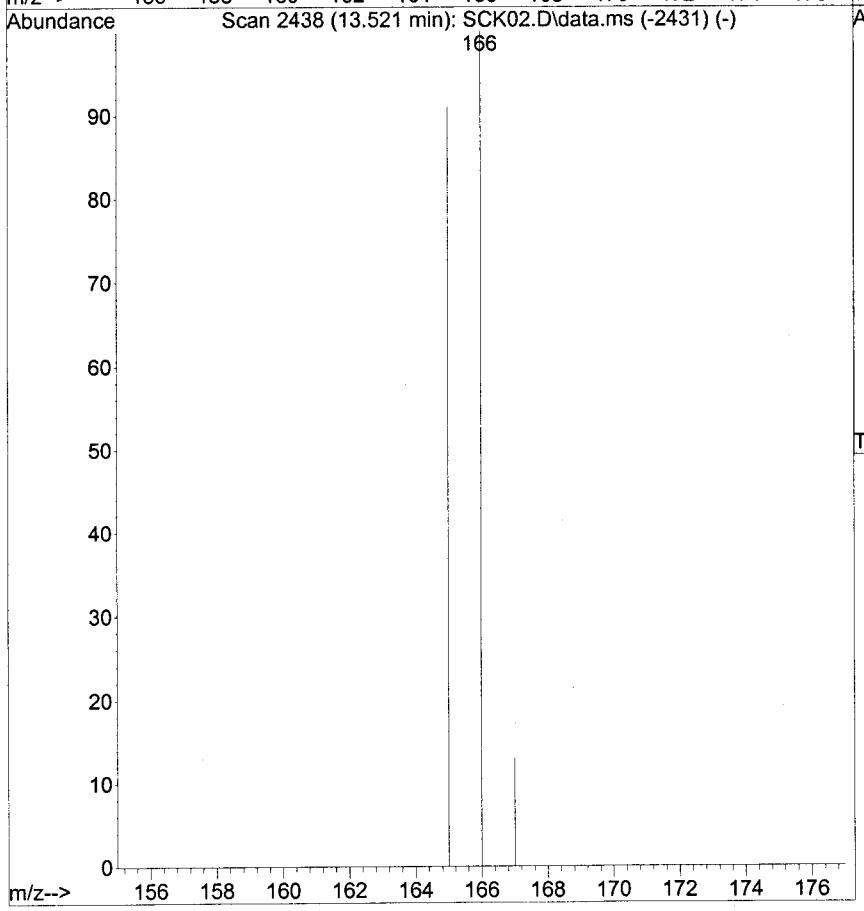
#12
Fluorene
Concen: 0.0042 ug/mL
RT: 13.530 min Scan# 2440
Delta R.T. 0.009 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

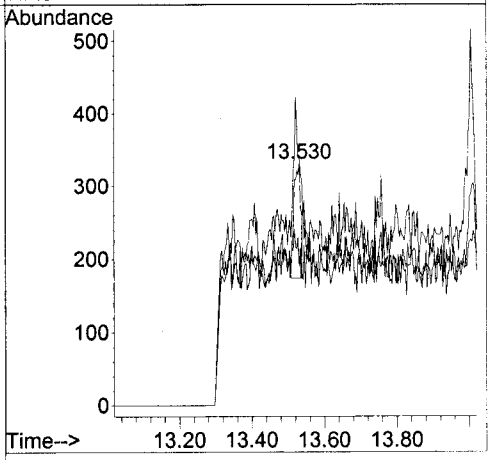
Tgt Ion:166 Resp: 202

Ion	Ratio	Lower	Upper
166	100		
165	102.1	70.8	110.8
167	57.4	0.0	34.3#



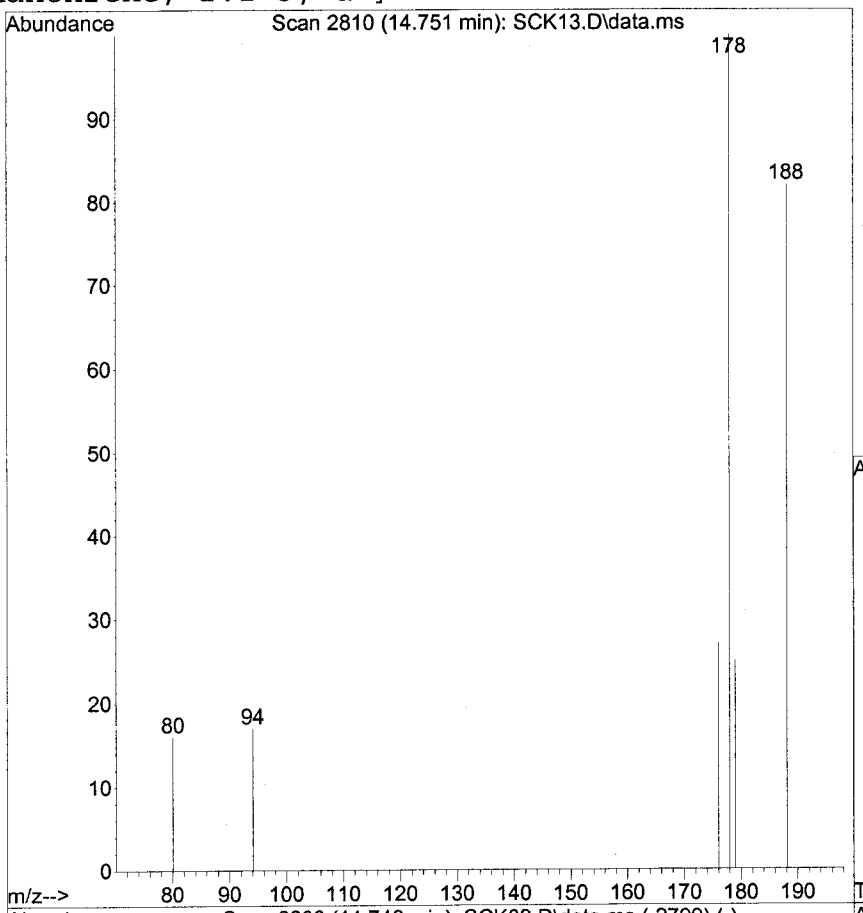
Ref





[Phenanthrene; 2.1 J; u]

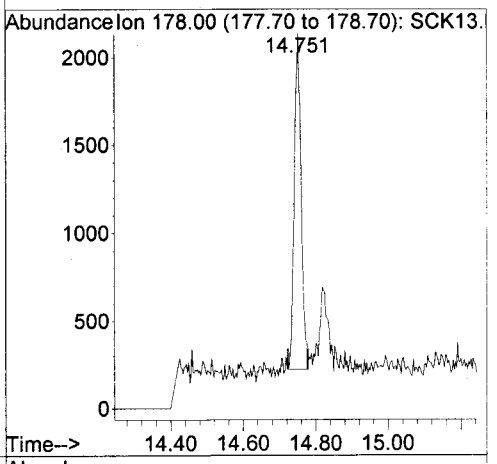
Raw



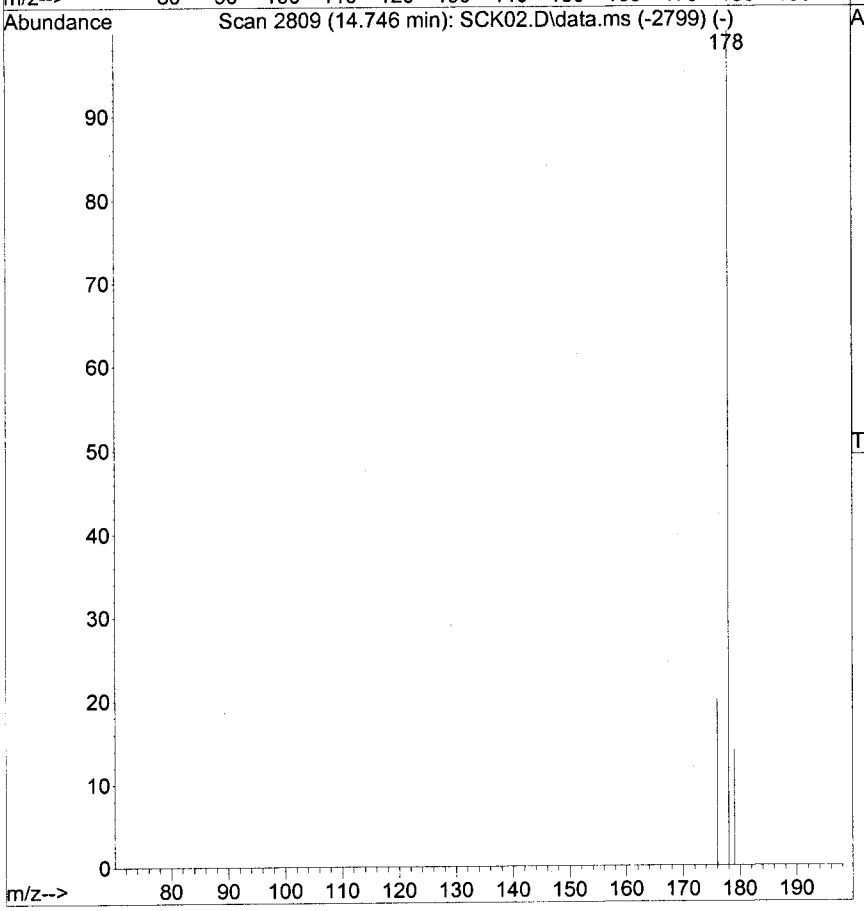
#14
Phenanthrene
Concen: 0.0324 ug/mL
RT: 14.751 min Scan# 2810
Delta R.T. 0.006 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

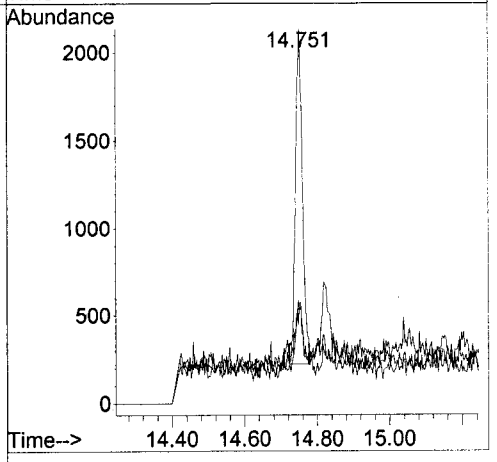
Tgt Ion:178 Resp: 2526

Ion	Ratio	Lower	Upper
178	100		
179	24.8	0.0	36.0
176	26.6	0.7	40.7



Ref

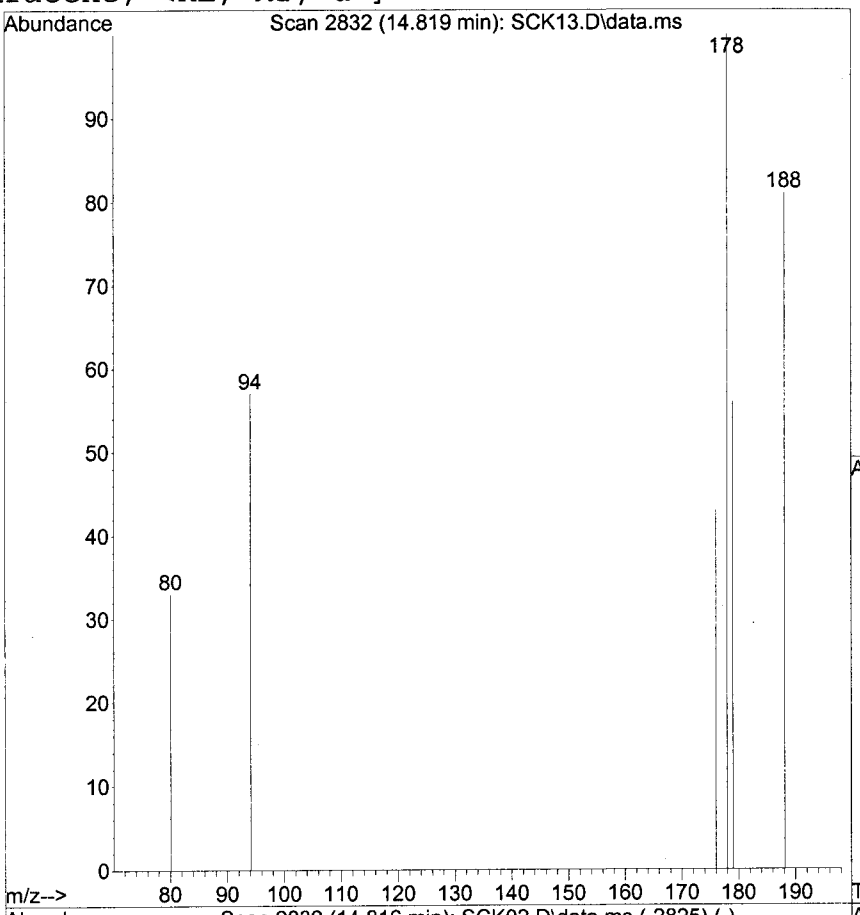




00135

[Anthracene; <RL; MI; u]

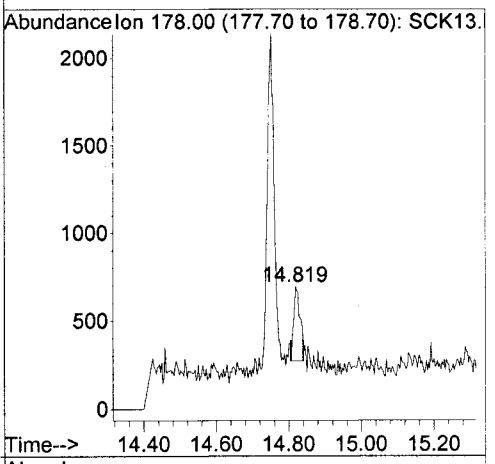
Raw



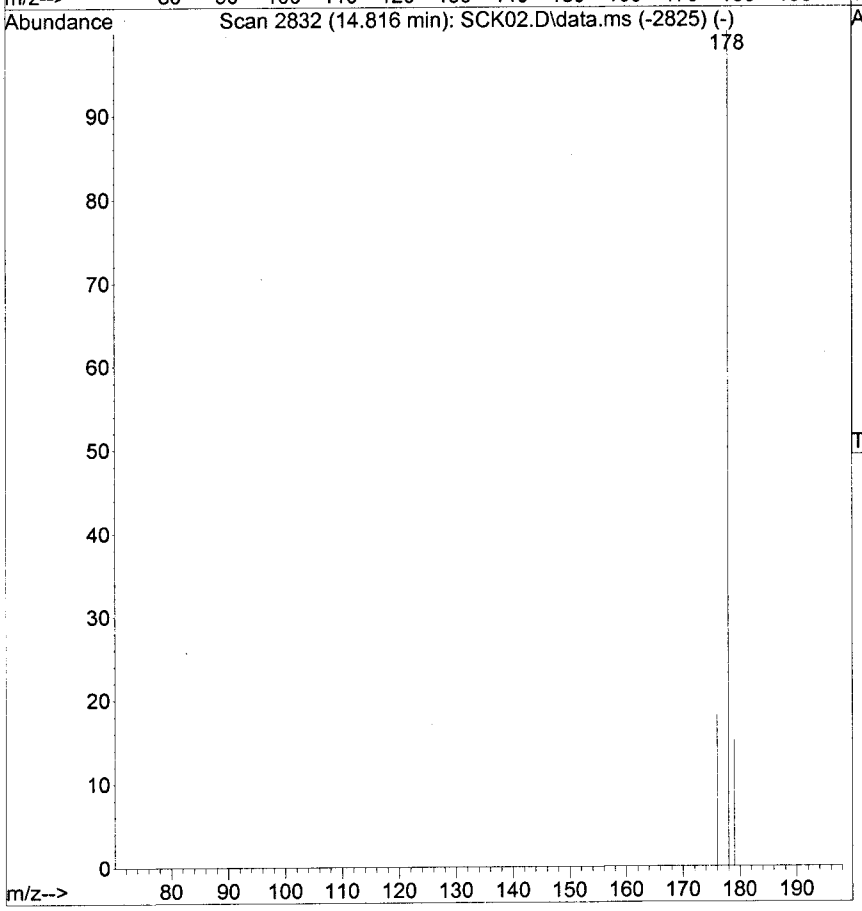
#15
Anthracene
Concen: 0.0066 ug/mL m
RT: 14.819 min Scan# 2832
Delta R.T. 0.003 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

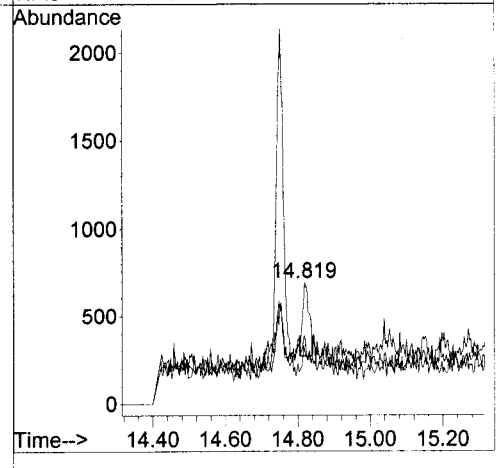
Tgt Ion:178 Resp: 520

Ion	Ratio	Lower	Upper
178	100		
179	43.4	0.0	38.7#
176	33.5	0.0	39.5



Ref

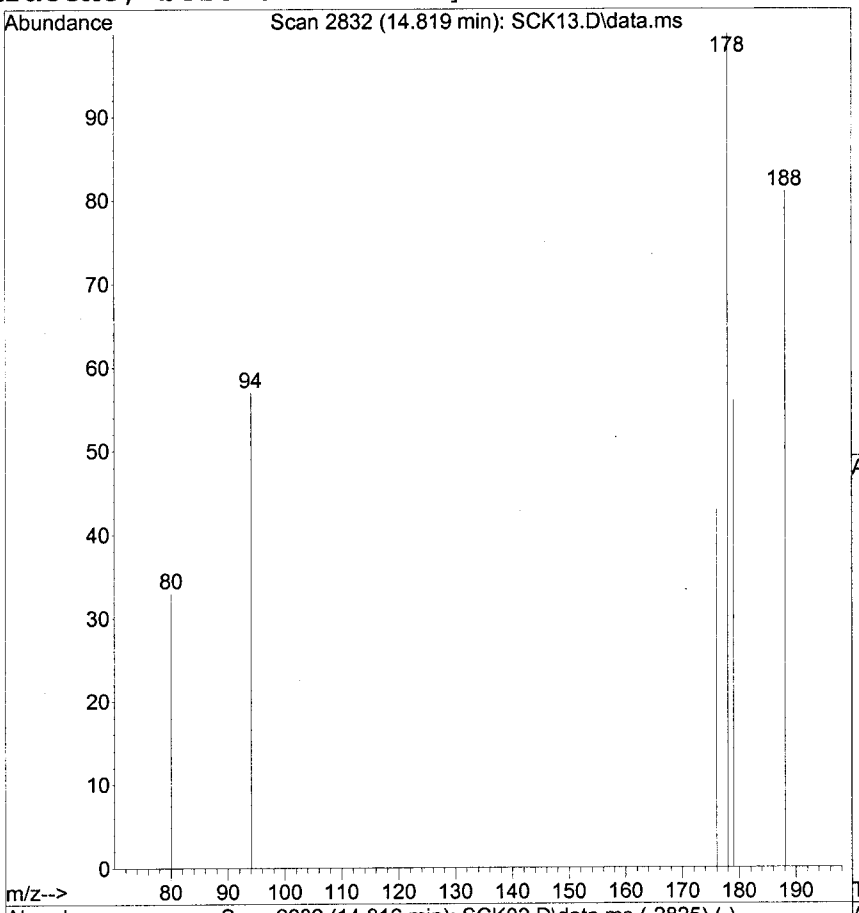




00136

[Anthracene; before version]

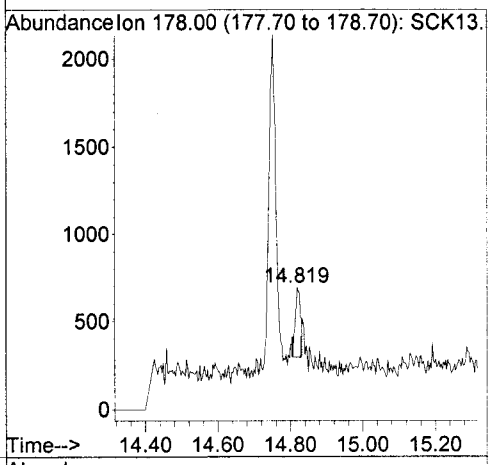
Raw



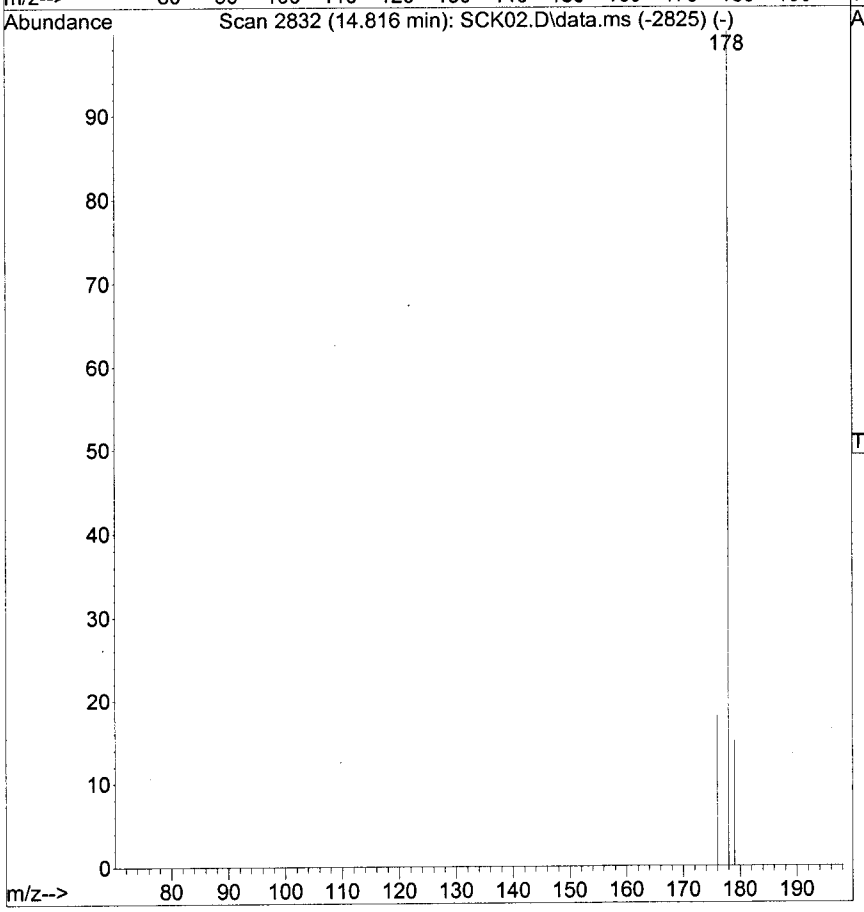
#15
Anthracene
Concen: 0.0051 ug/mL
RT: 14.819 min Scan# 2832
Delta R.T. 0.003 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

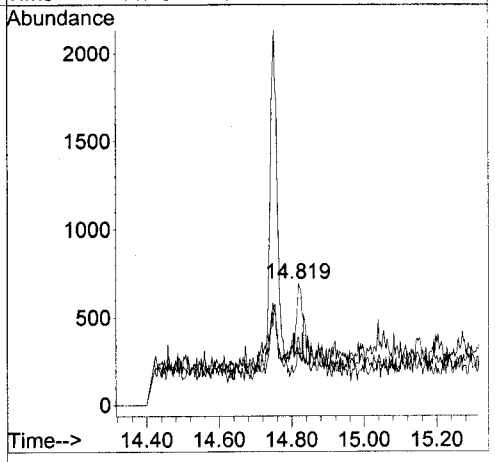
Tgt Ion:178 Resp: 401

Ion	Ratio	Lower	Upper
178	100		
179	56.3	0.0	38.7#
176	43.4	0.0	39.5#



Ref

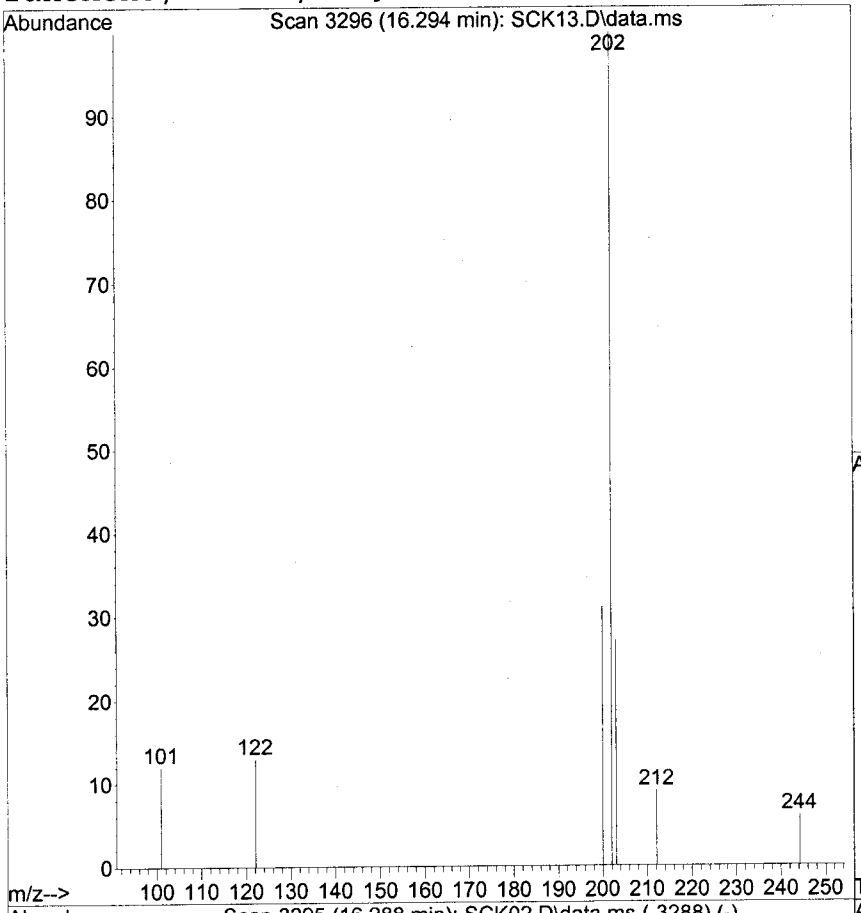




00137

[Fluoranthene; 2.5 J; u]

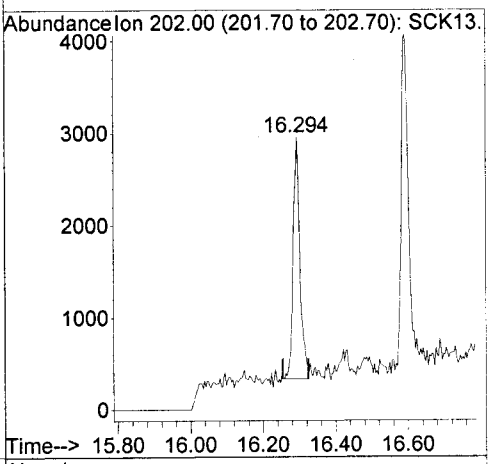
Raw



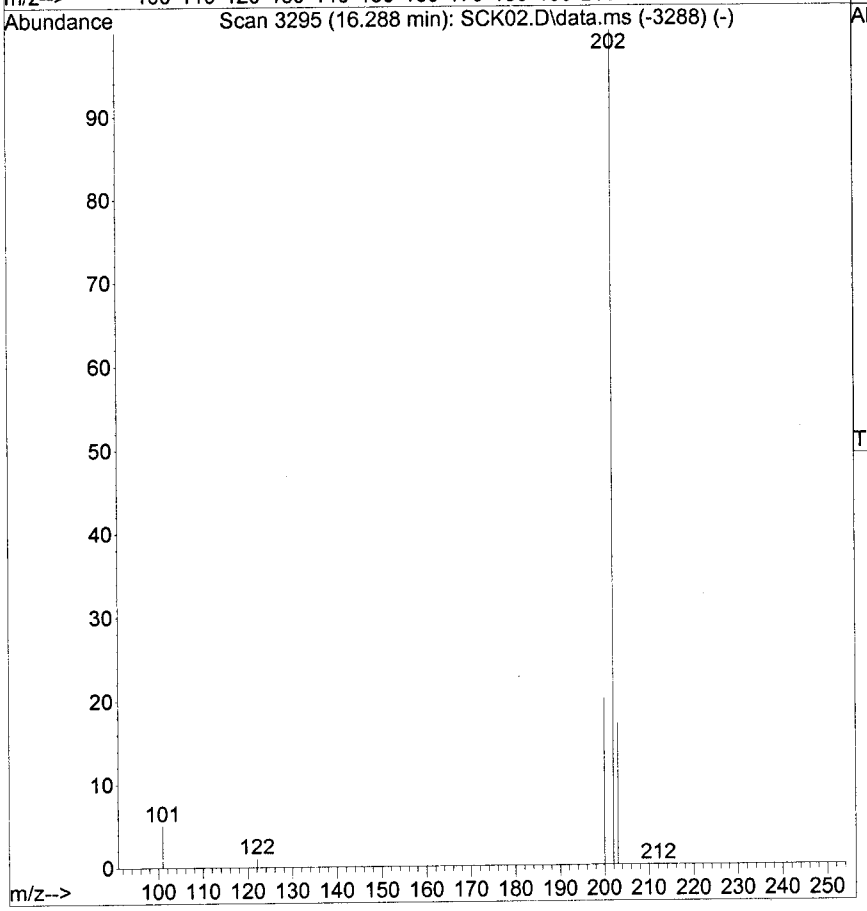
#16
Fluoranthene
Concen: 0.0374 ug/mL
RT: 16.294 min Scan# 3296
Delta R.T. 0.005 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

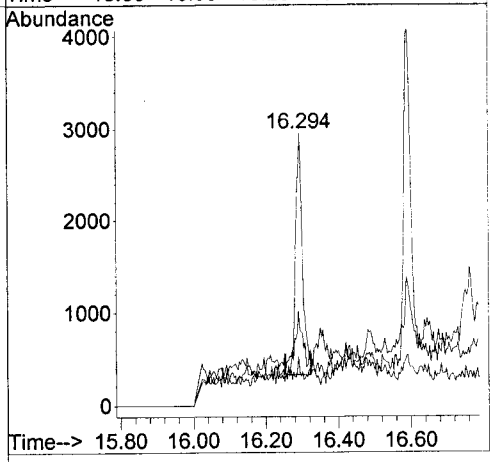
Tgt Ion:202 Resp: 3407

Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	30.0
203	27.5	0.0	38.2



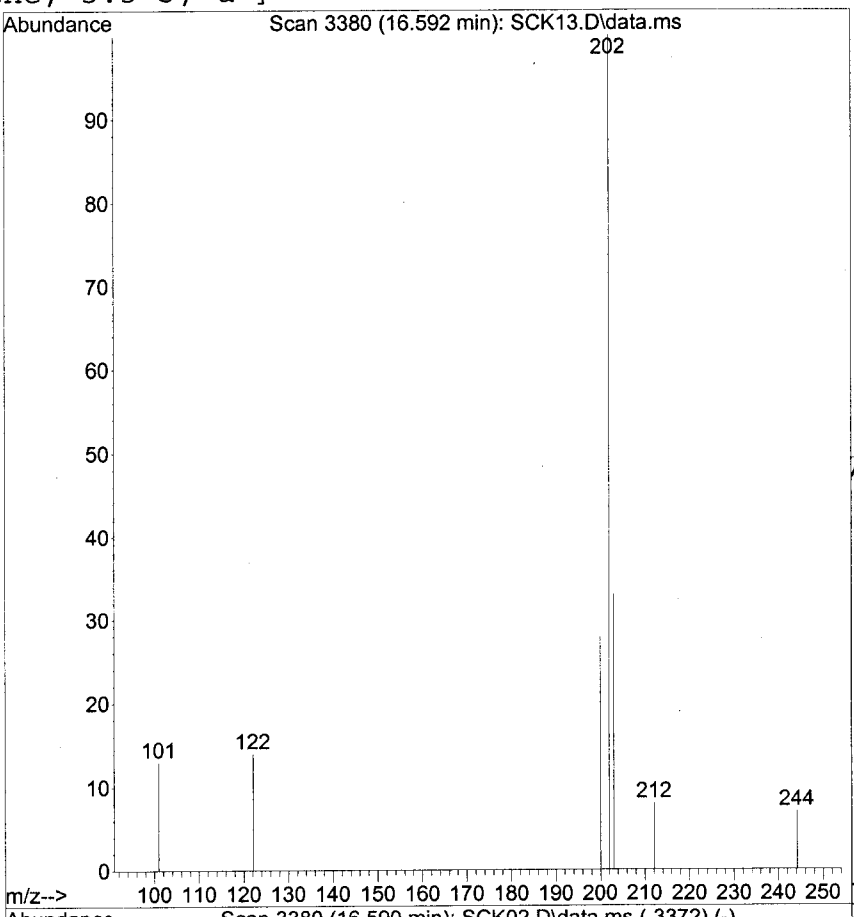
Ref





[Pyrene; 3.3 J; u]

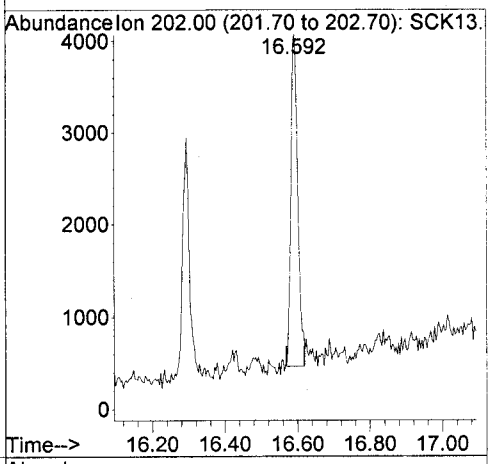
Raw



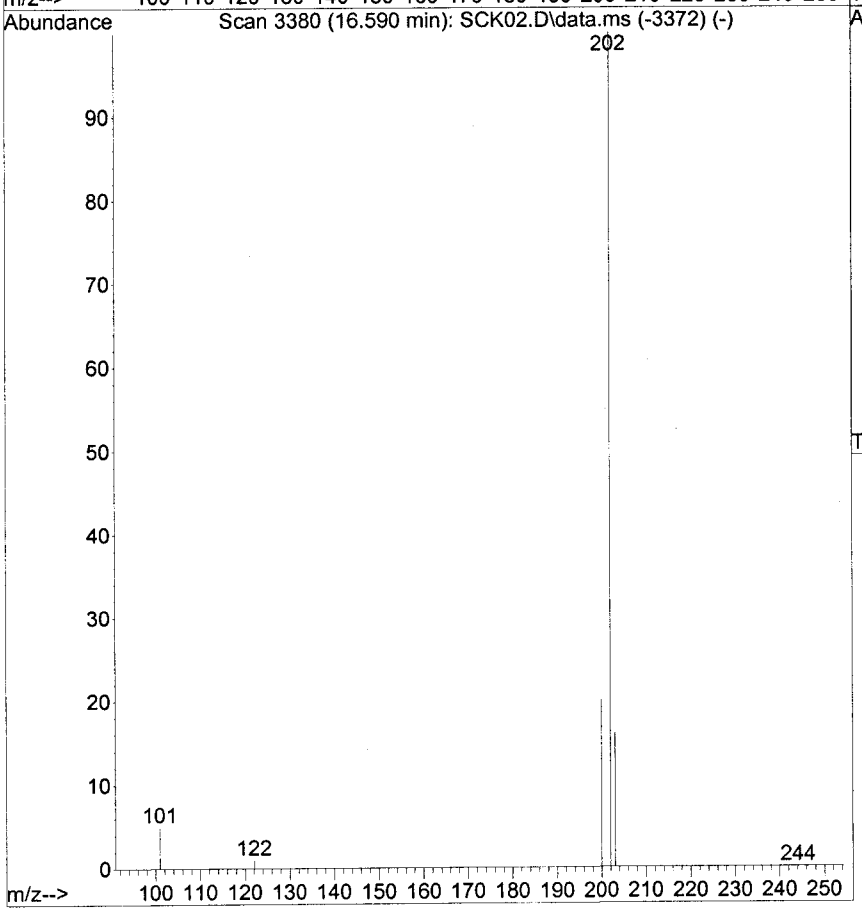
#18
Pyrene
Concen: 0.0504 ug/mL
RT: 16.592 min Scan# 3380
Delta R.T. 0.002 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

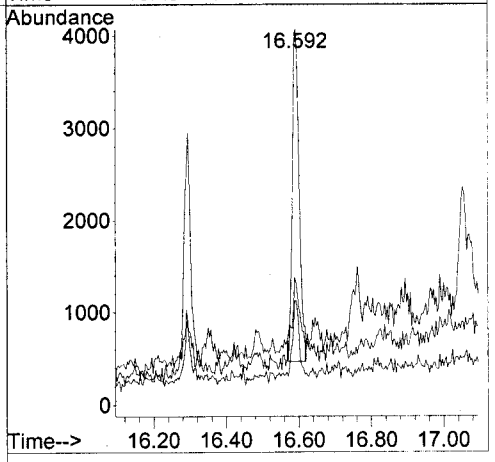
Tgt Ion:202 Resp: 4779

Ion	Ratio	Lower	Upper
202	100		
200	27.7	4.2	44.2
203	32.5	0.0	39.3



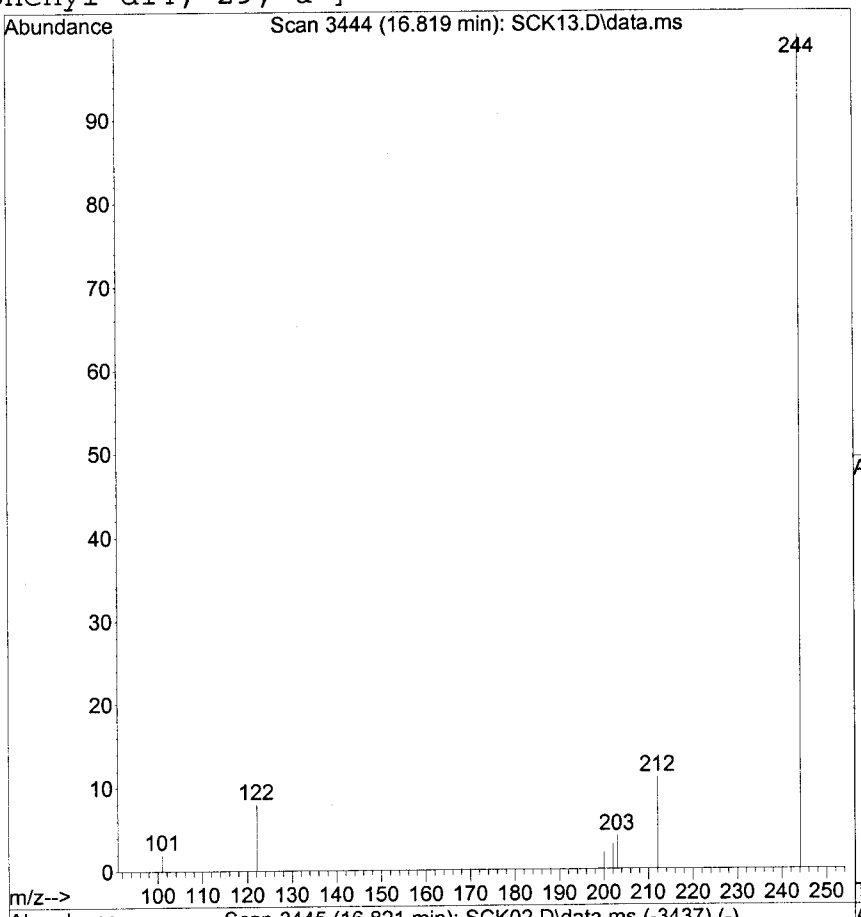
Ref





[Terphenyl-d14; 29; u]

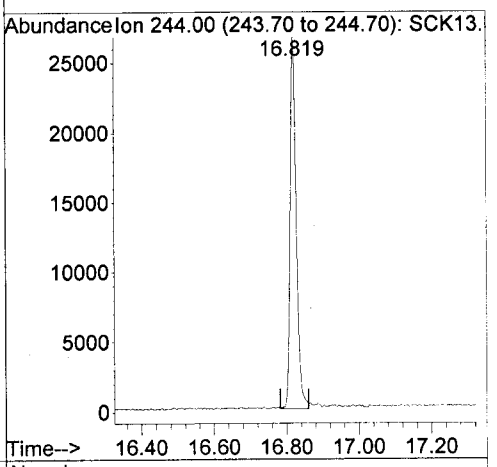
Raw



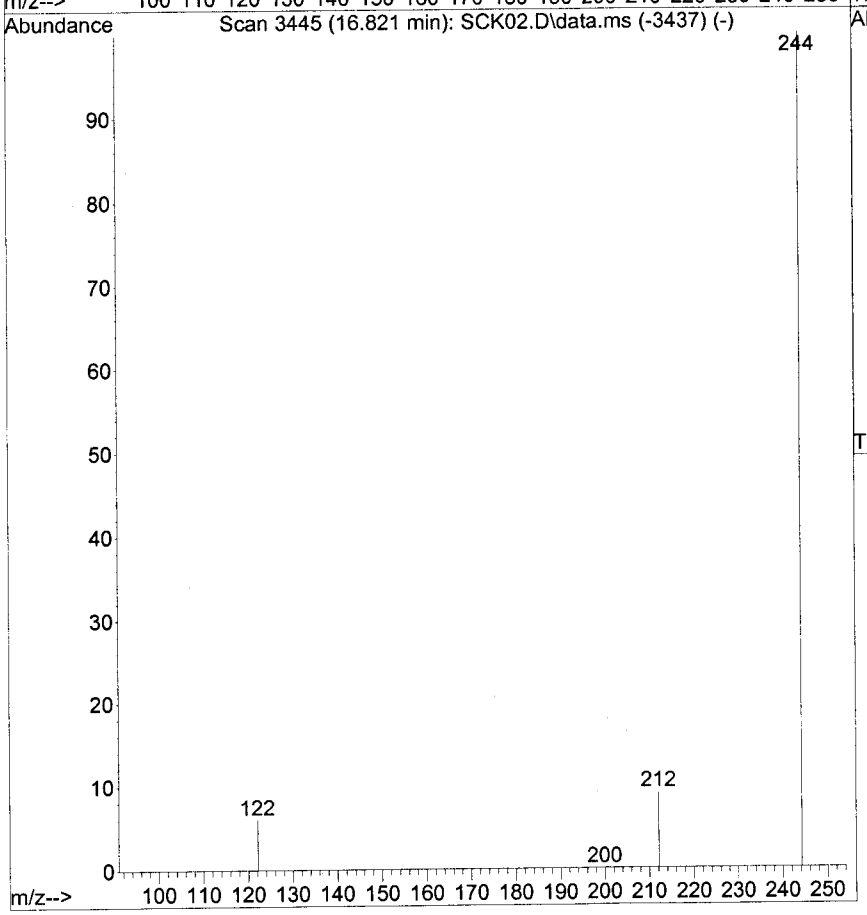
#19
Terphenyl-d14
Concen: 0.4430 ug/mL
RT: 16.819 min Scan# 3444
Delta R.T. -0.002 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

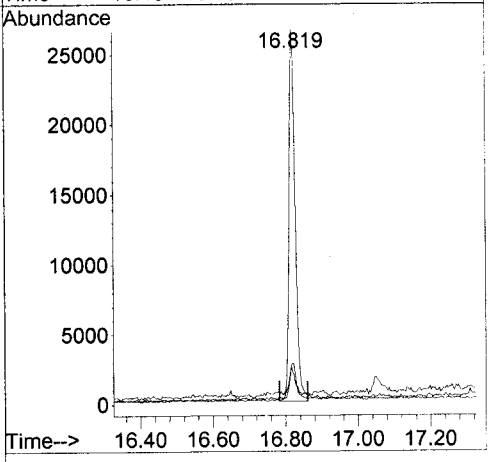
Tgt Ion:244 Resp: 31488

Ion	Ratio	Lower	Upper
244	100		
122	8.5	0.0	30.0
212	10.8	0.0	29.1



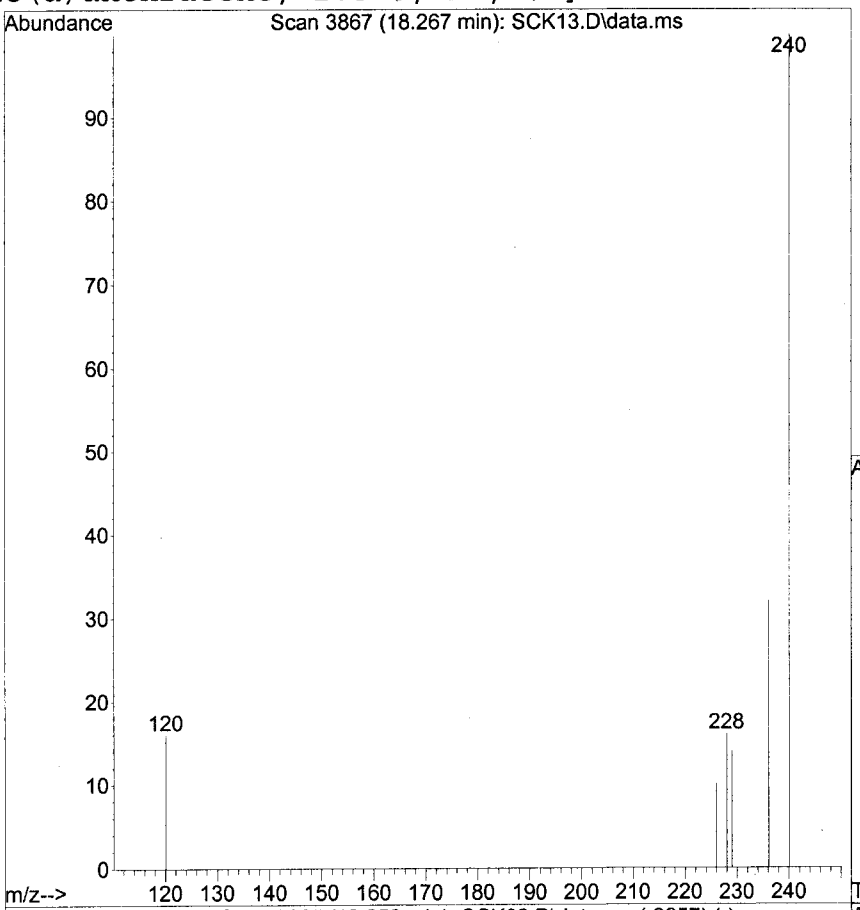
Ref





[Benzo(a)anthracene; 2.5 J; MI; u]

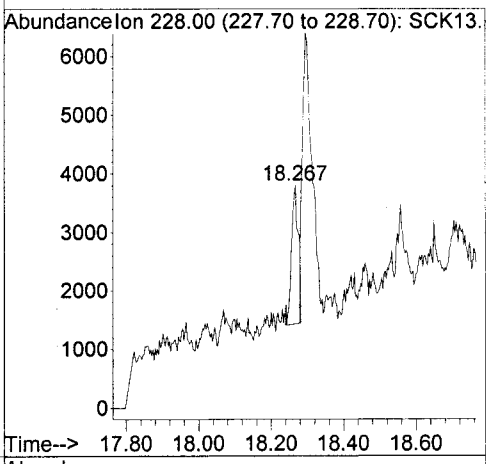
Raw



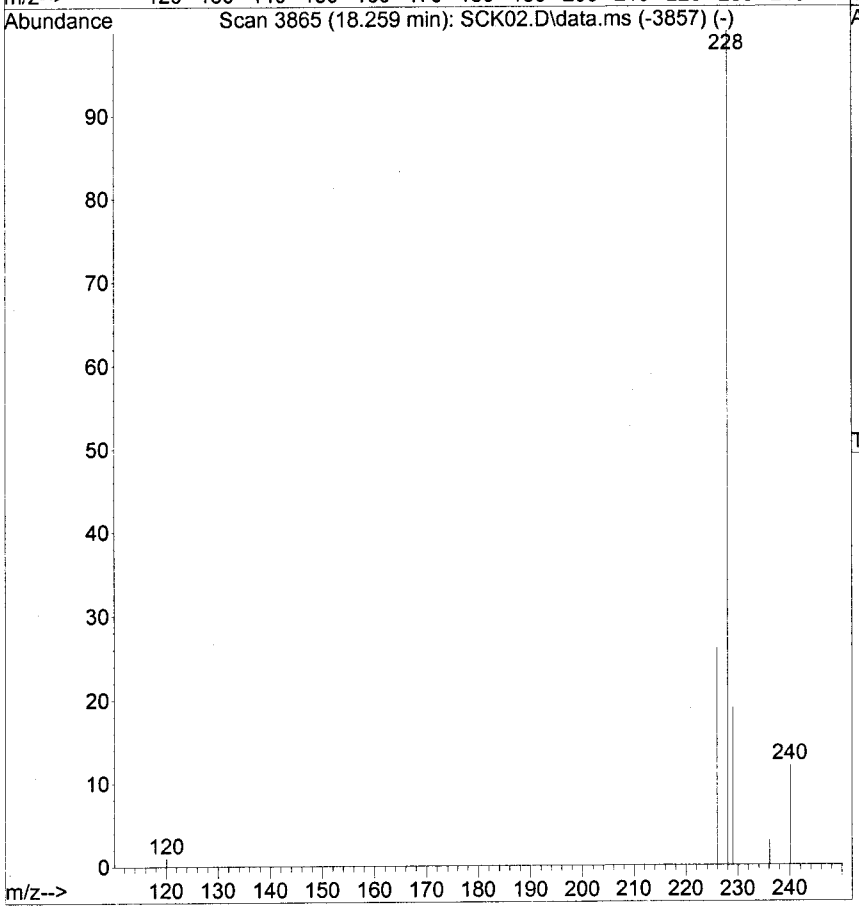
#20
Benzo(a)anthracene
Concen: 0.0381 ug/mL m
RT: 18.267 min Scan# 3867
Delta R.T. 0.009 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

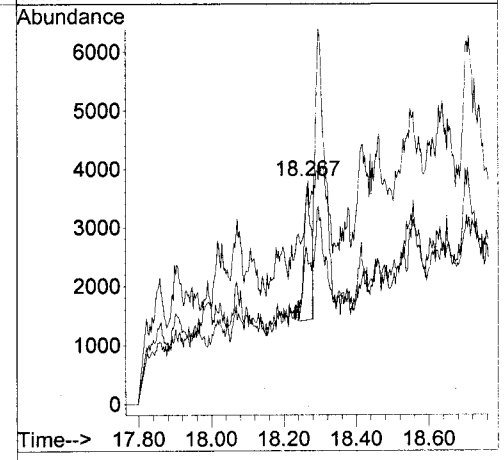
Tgt Ion:228 Resp: 3070

Ion	Ratio	Lower	Upper
228	100		
229	62.8	1.1	41.1#
226	43.9	8.4	48.4



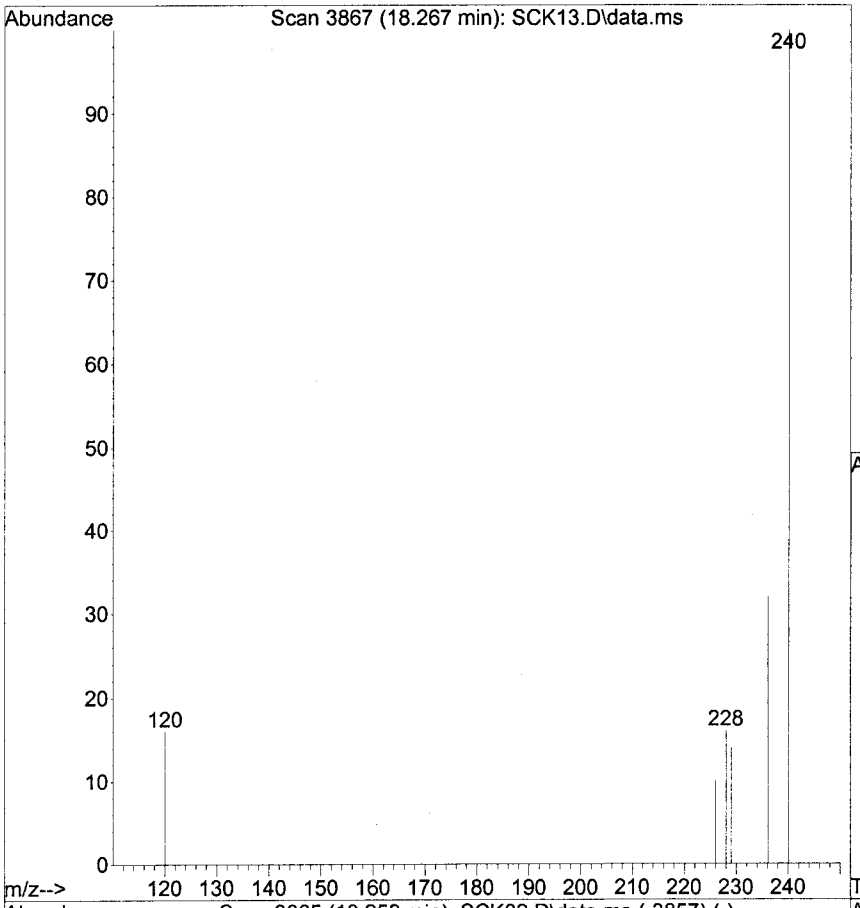
Ref





[Benzo(a)anthracene; before version]

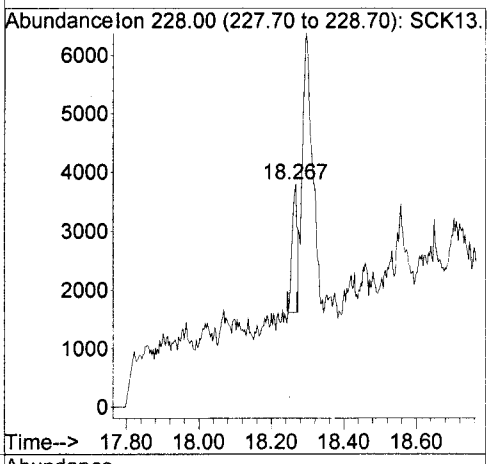
Raw



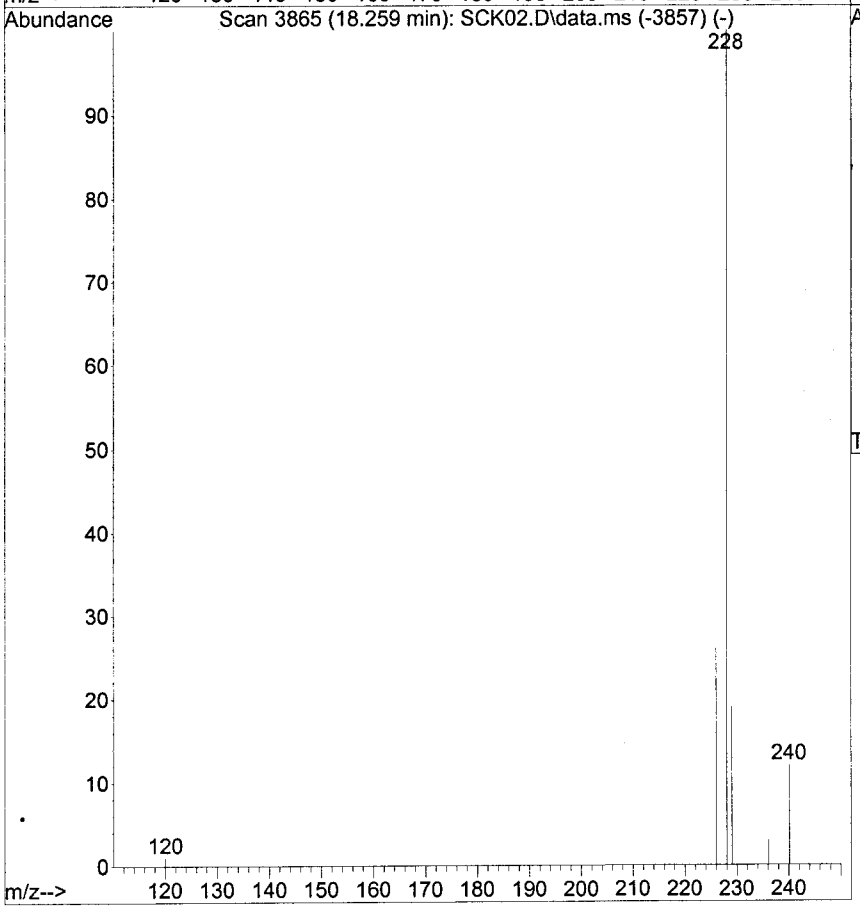
#20
Benzo(a)anthracene
Concen: 0.0269 ug/mL
RT: 18.267 min Scan# 3867
Delta R.T. 0.009 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

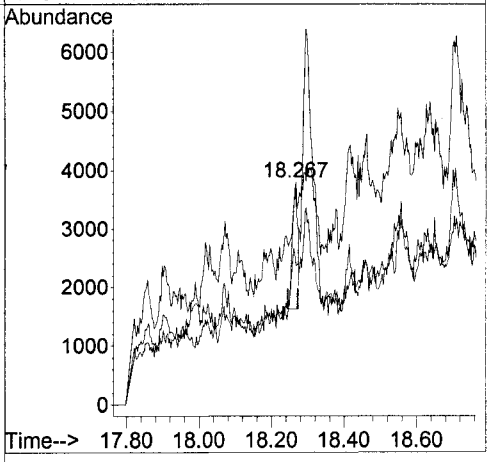
Tgt Ion:228 Resp: 2168

Ion	Ratio	Lower	Upper
228	100		
229	88.9	1.1	41.1#
226	62.2	8.4	48.4#



Ref

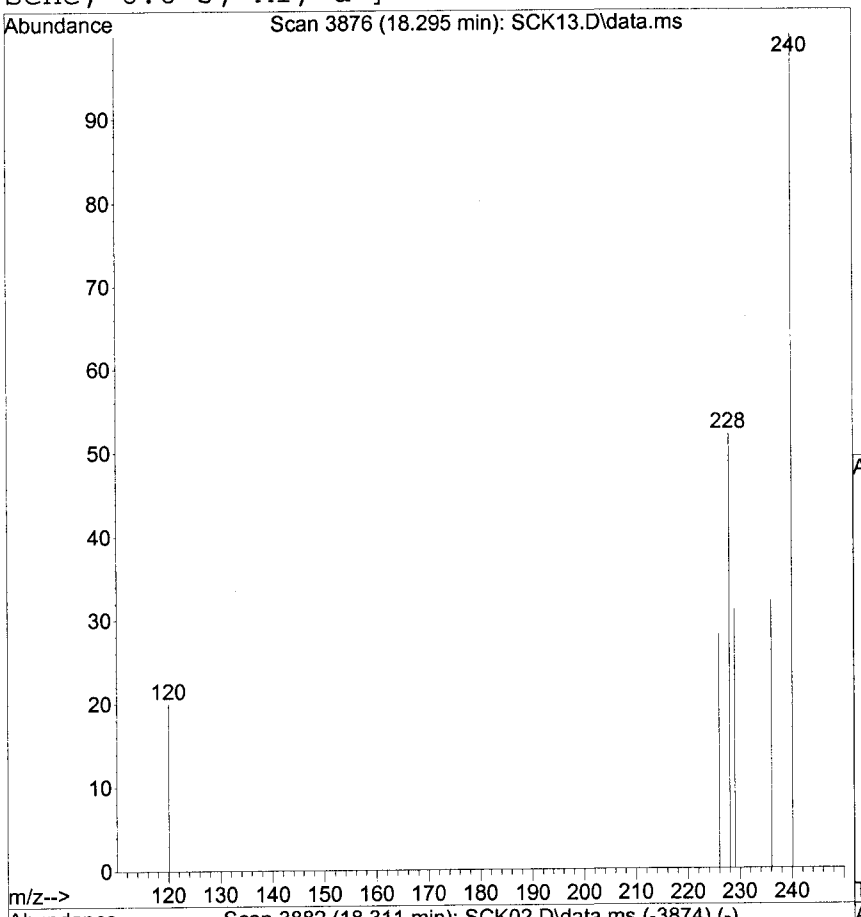




: 00142

[Chrysene; 6.6 J; MI; u]

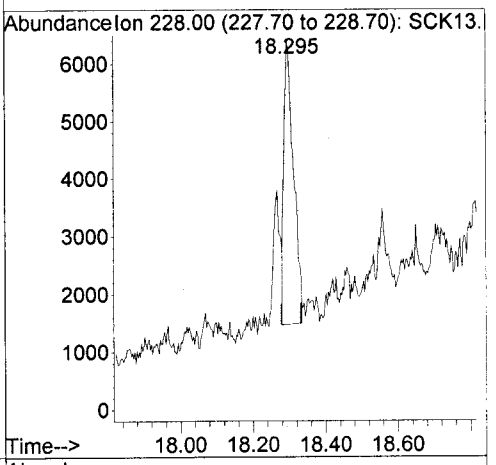
Raw



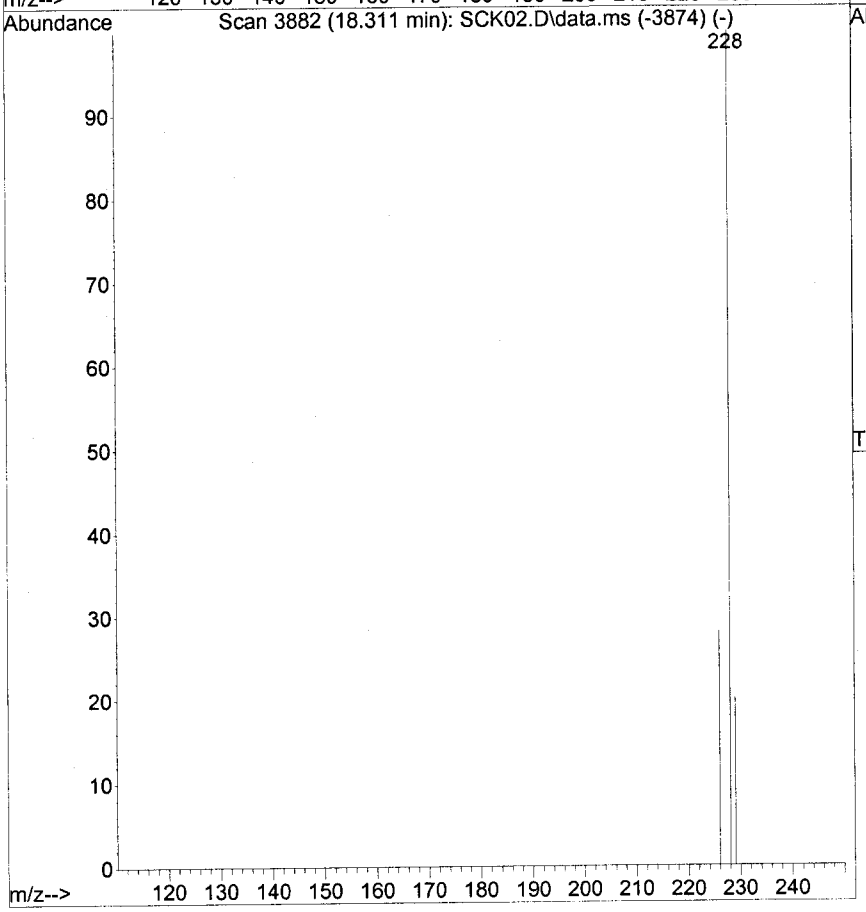
#21
Chrysene
Concen: 0.1002 ug/mL m
RT: 18.295 min Scan# 3876
Delta R.T. -0.016 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

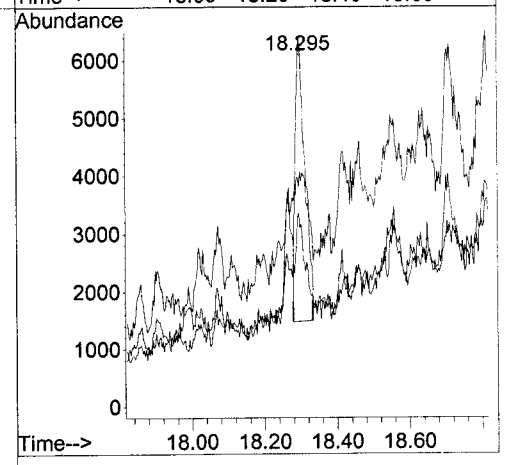
Tgt Ion:228 Resp: 9084

Ion	Ratio	Lower	Upper
228	100		
226	52.7	10.9	50.9#
229	59.5	0.5	40.5#



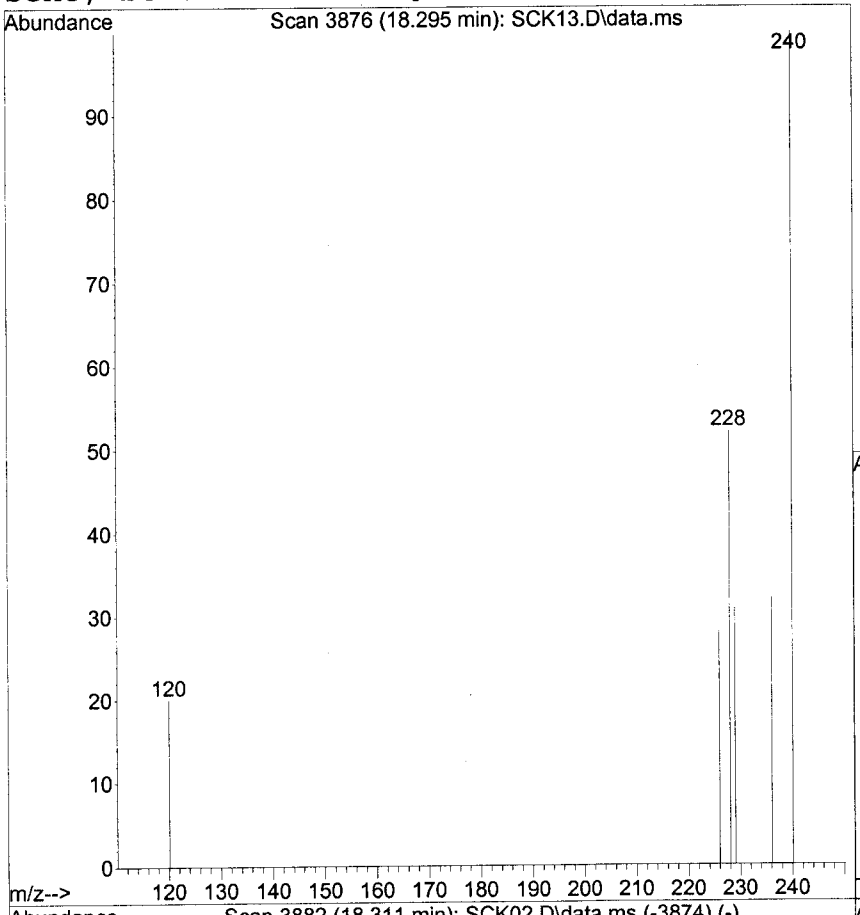
Ref





[Chrysene; before version]

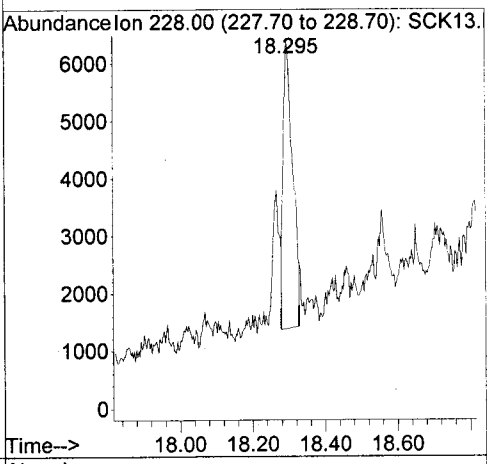
Raw



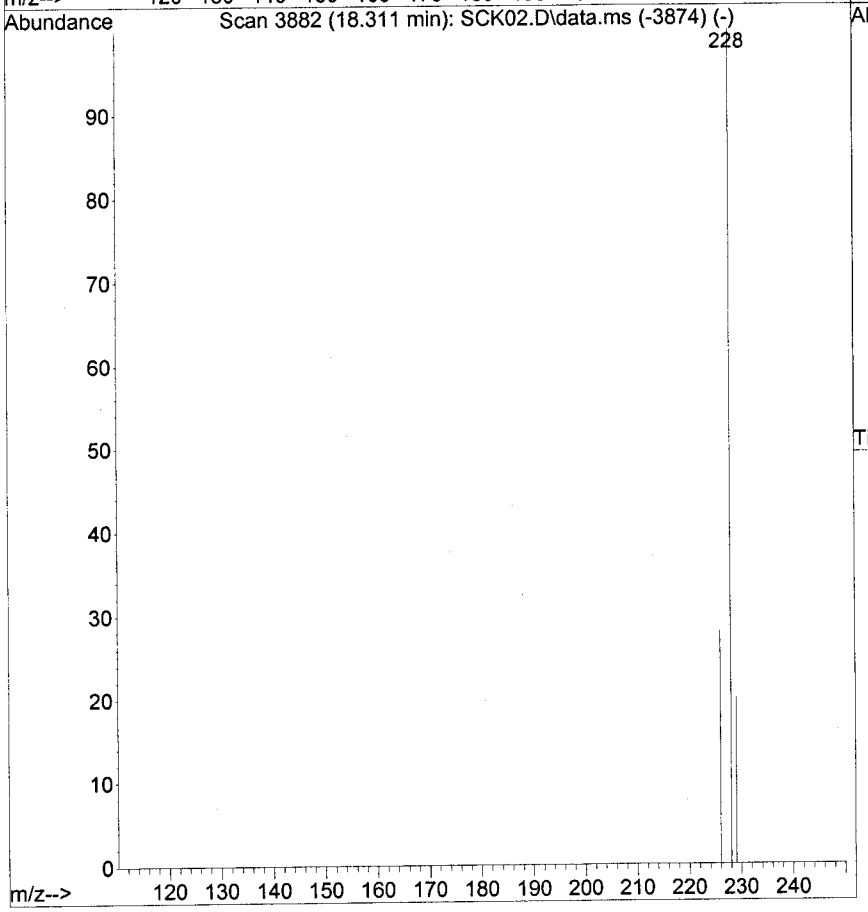
#21
Chrysene
Concen: 0.1004 ug/mL
RT: 18.295 min Scan# 3876
Delta R.T. -0.016 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

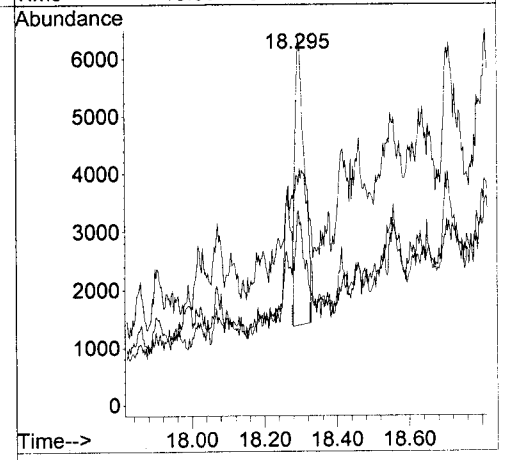
Tgt Ion:228 Resp: 9098

Ion	Ratio	Lower	Upper
228	100		
226	52.6	10.9	50.9#
229	59.4	0.5	40.5#



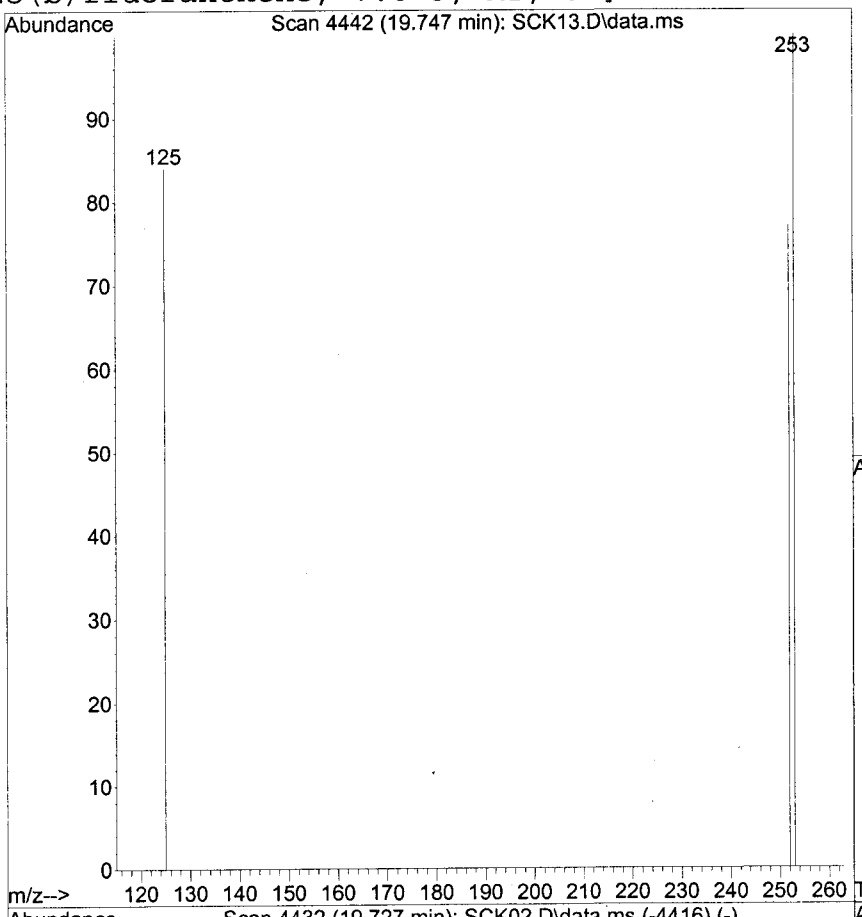
Ref





[Benzo(b)fluoranthene; 7.6 J; MI; u]

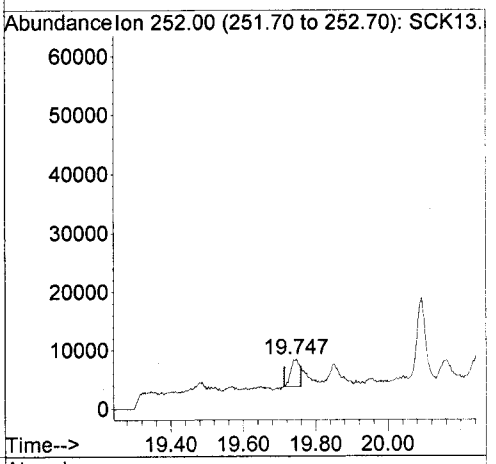
Raw



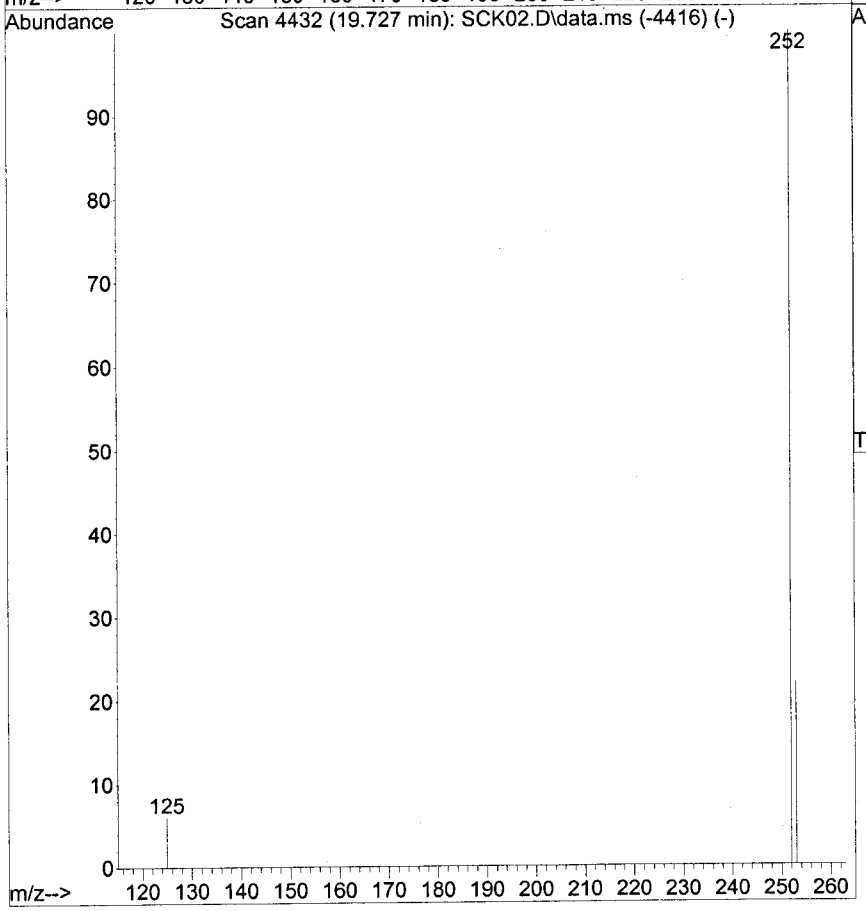
#23
Benzo(b)fluoranthene
Concen: 0.1160 ug/mL m
RT: 19.747 min Scan# 4442
Delta R.T. 0.020 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

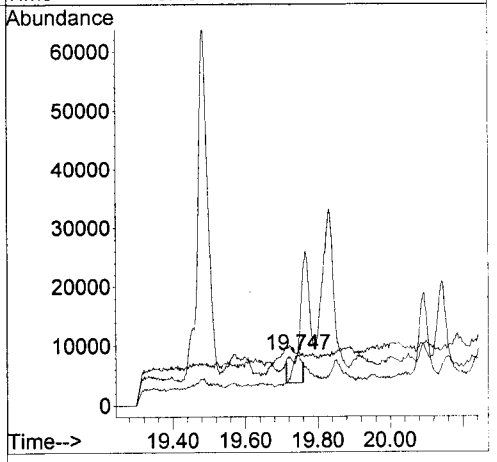
Tgt Ion:252 Resp: 7867

Ion	Ratio	Lower	Upper
252	100		
253	129.3	3.6	43.6#
125	108.2	0.0	31.2#



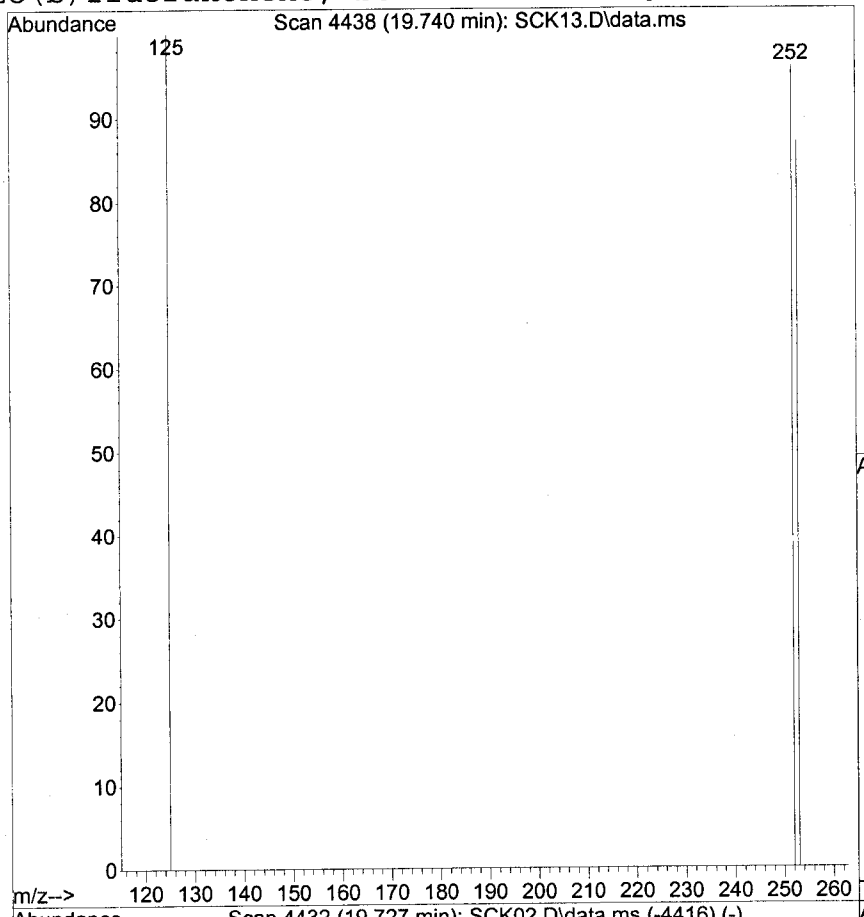
Ref





[Benzo(b)fluoranthene; before version]

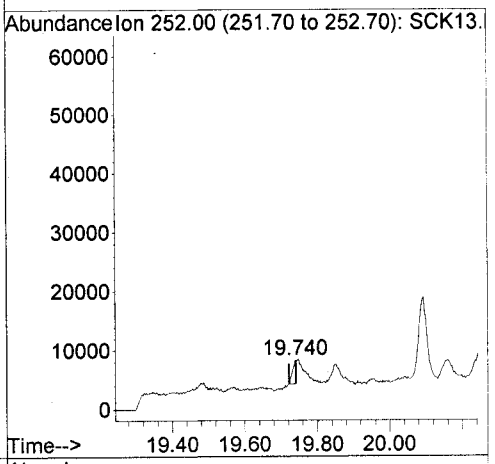
Raw



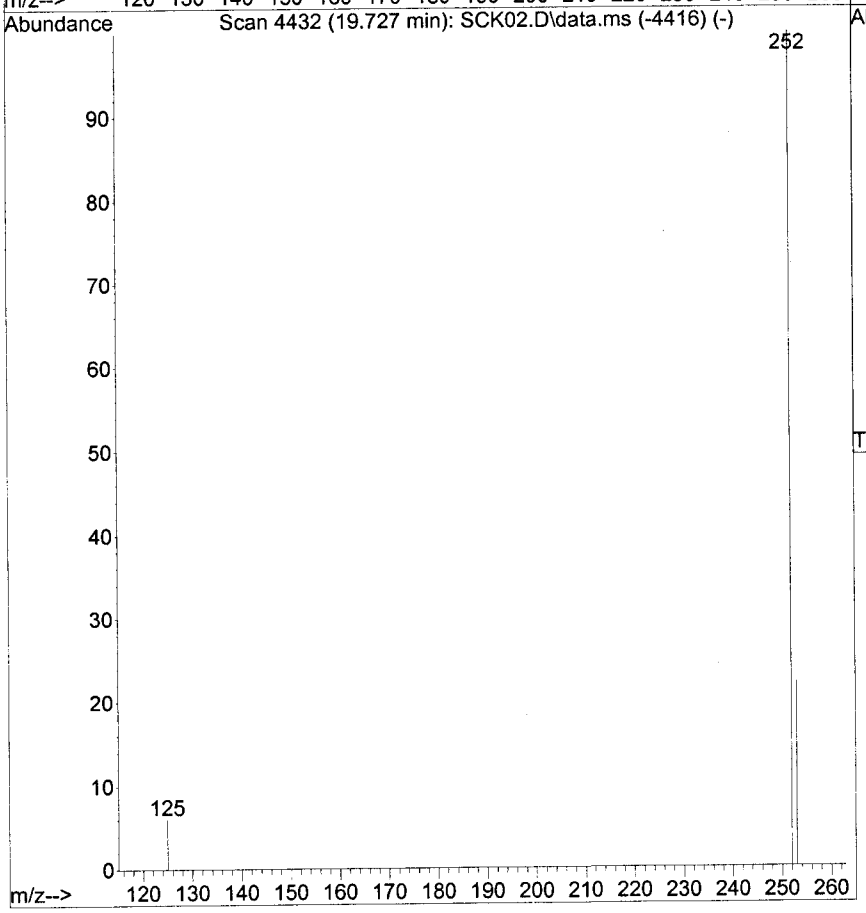
#23
Benzo(b)fluoranthene
Concen: 0.0635 ug/mL
RT: 19.740 min Scan# 4438
Delta R.T. 0.013 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

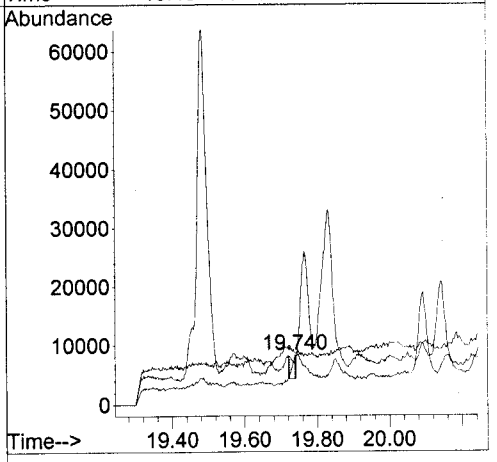
Tgt Ion:252 Resp: 2771

Ion	Ratio	Lower	Upper
252	100		
253	89.9	3.6	43.6#
125	103.9	0.0	31.2#



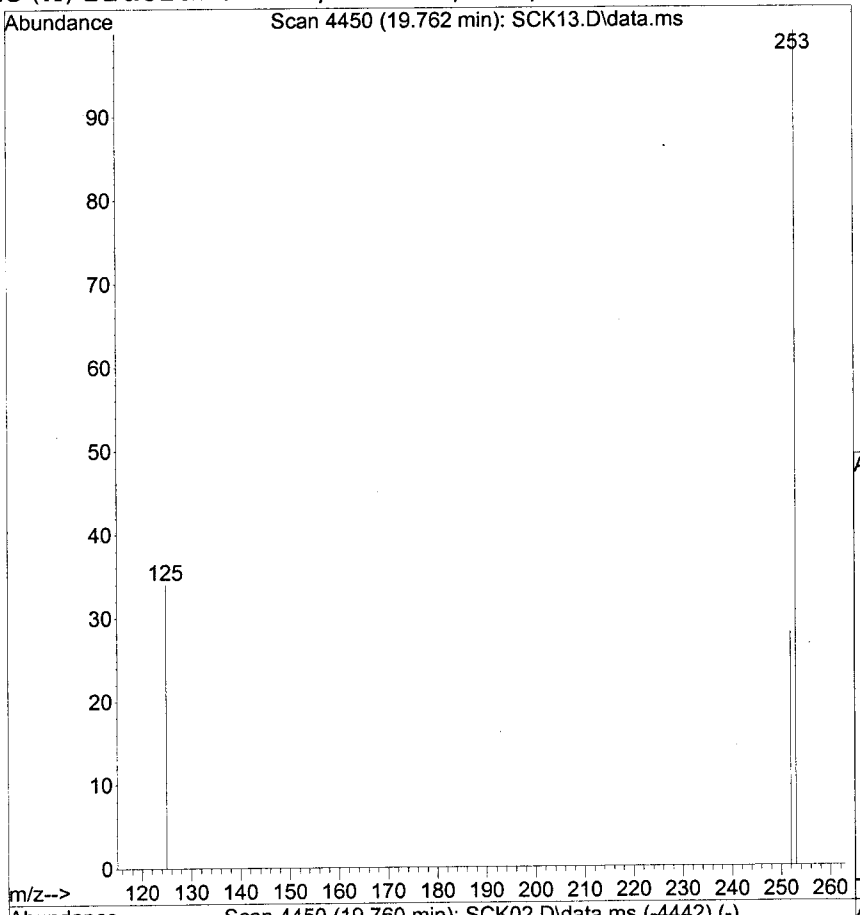
Ref





[Benzo(k)fluoranthene; 2.3 J; MI; u]

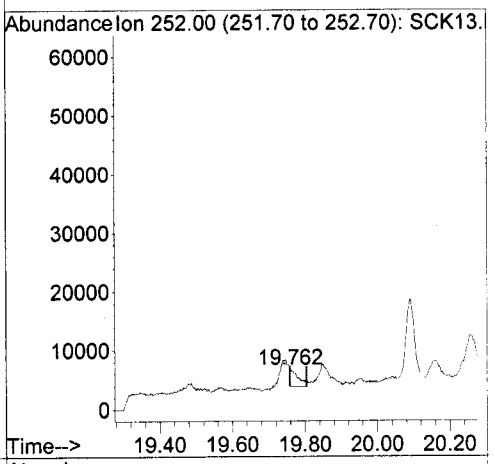
Raw



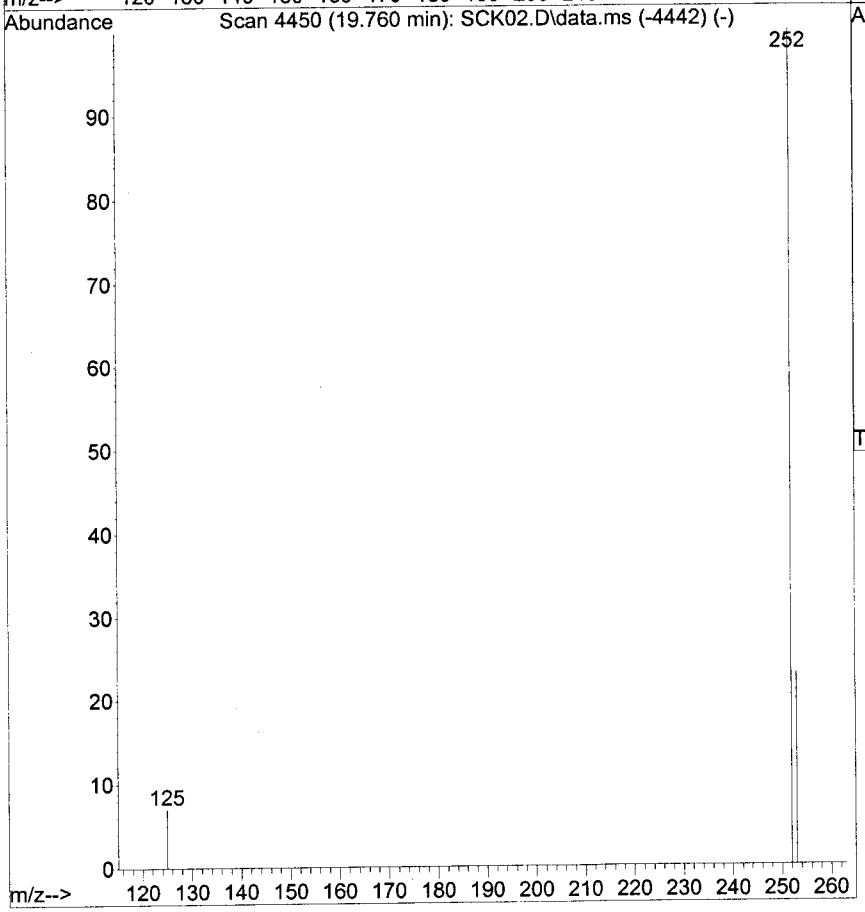
#24
Benzo(k)fluoranthene
Concen: 0.0343 ug/mL m
RT: 19.762 min Scan# 4450
Delta R.T. 0.002 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

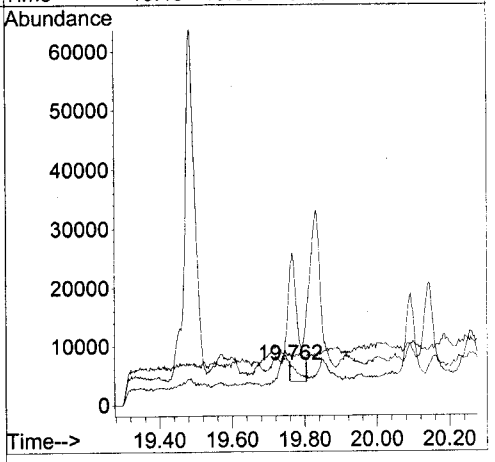
Tgt Ion:252 Resp: 4099

Ion	Ratio	Lower	Upper
252	100		
253	358.6	2.8	42.8#
125	122.9	0.0	31.7#



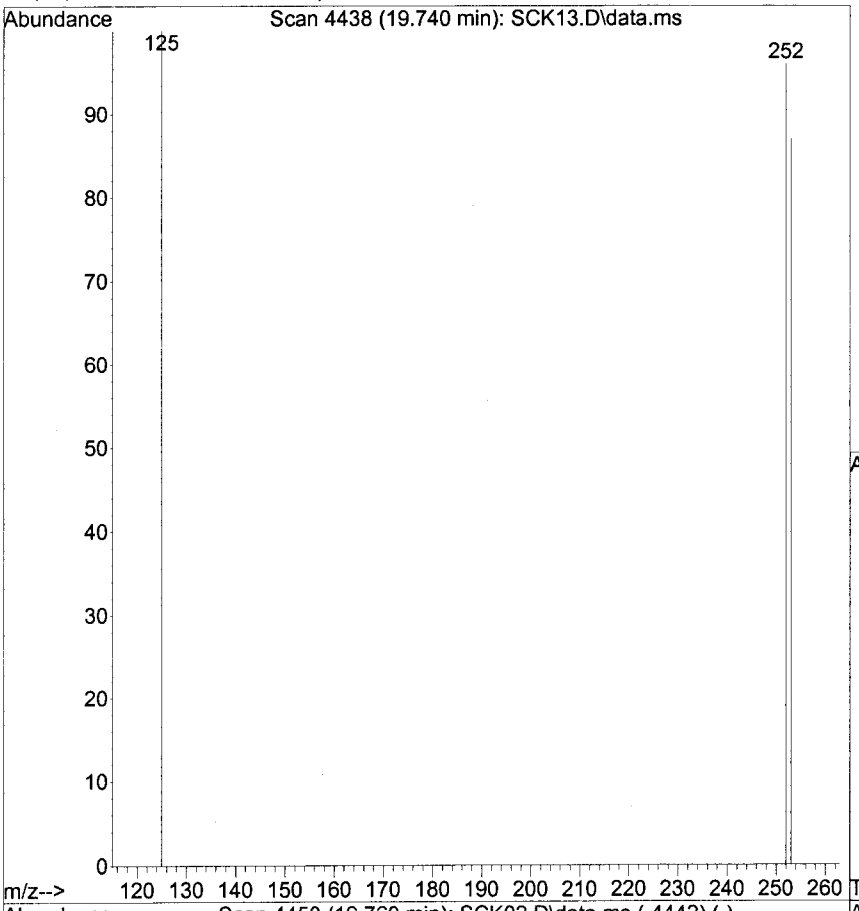
Ref





[Benzo(k)fluoranthene; before version]

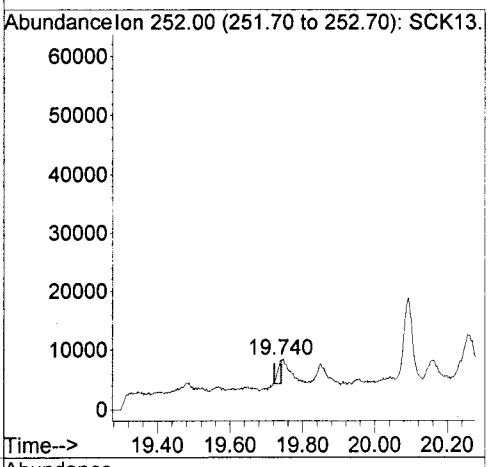
Raw



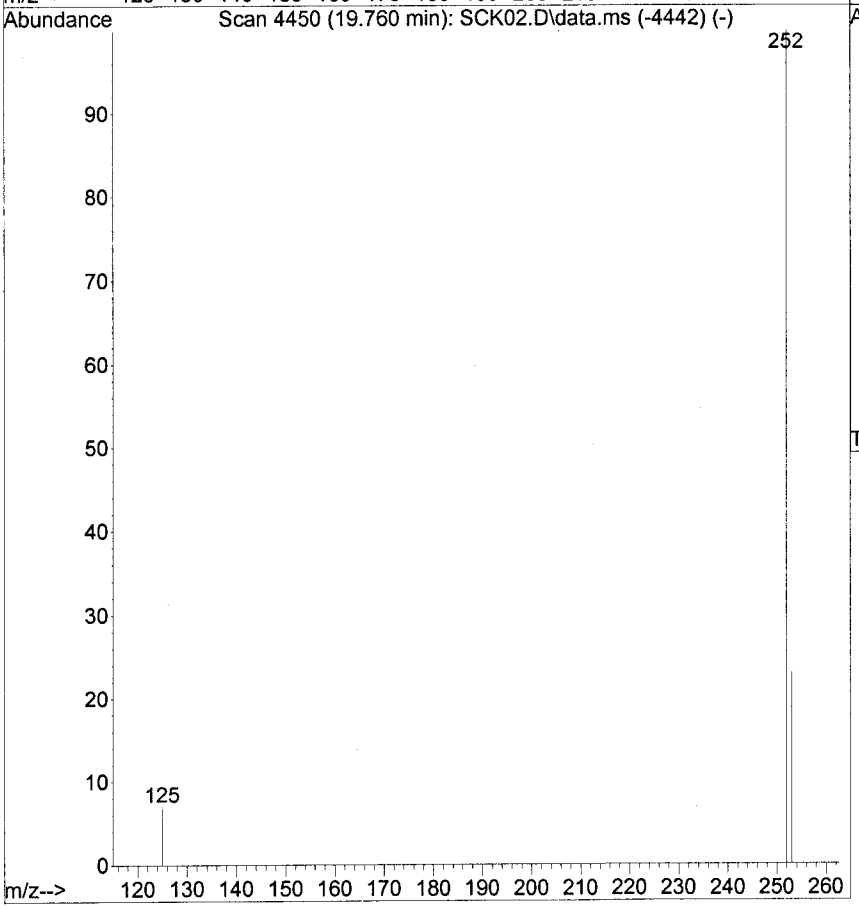
#24
Benzo(k)fluoranthene
Concen: 0.0232 ug/mL
RT: 19.740 min Scan# 4438
Delta R.T. -0.020 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

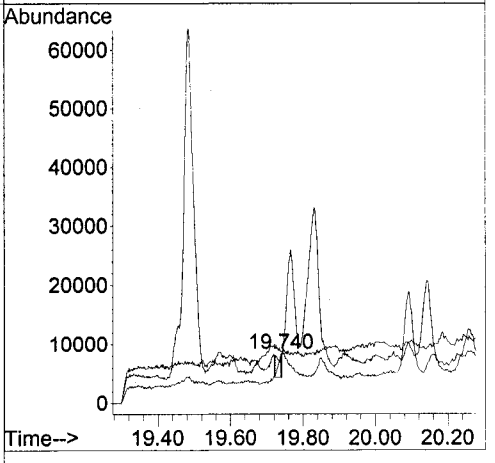
Tgt Ion:252 Resp: 2771

Ion	Ratio	Lower	Upper
252	100		
253	89.9	2.8	42.8#
125	103.9	0.0	31.7#



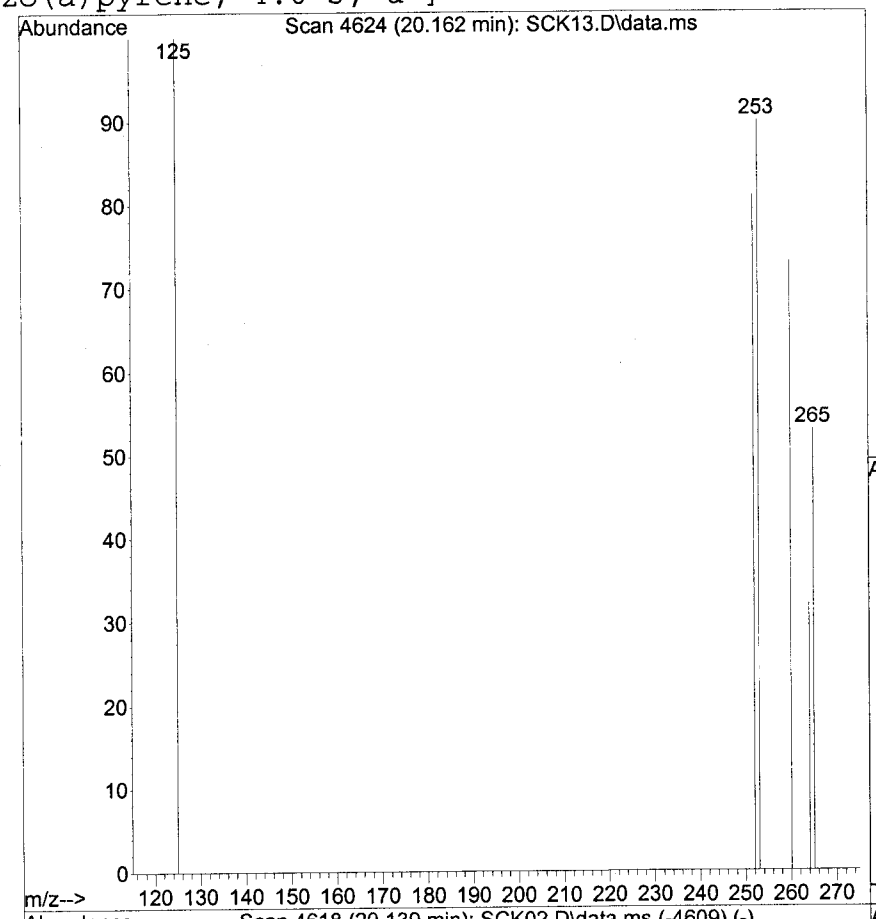
Ref





[Benzo(a)pyrene; 4.0 J; u]

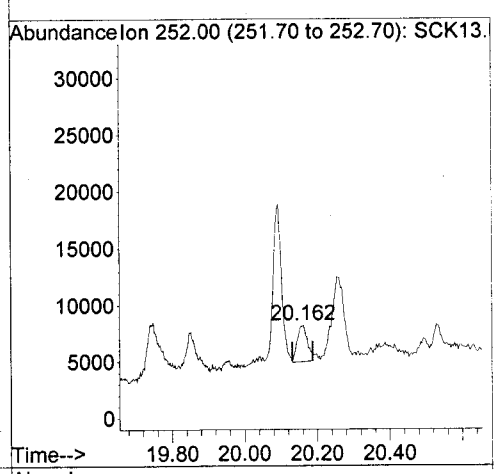
Raw



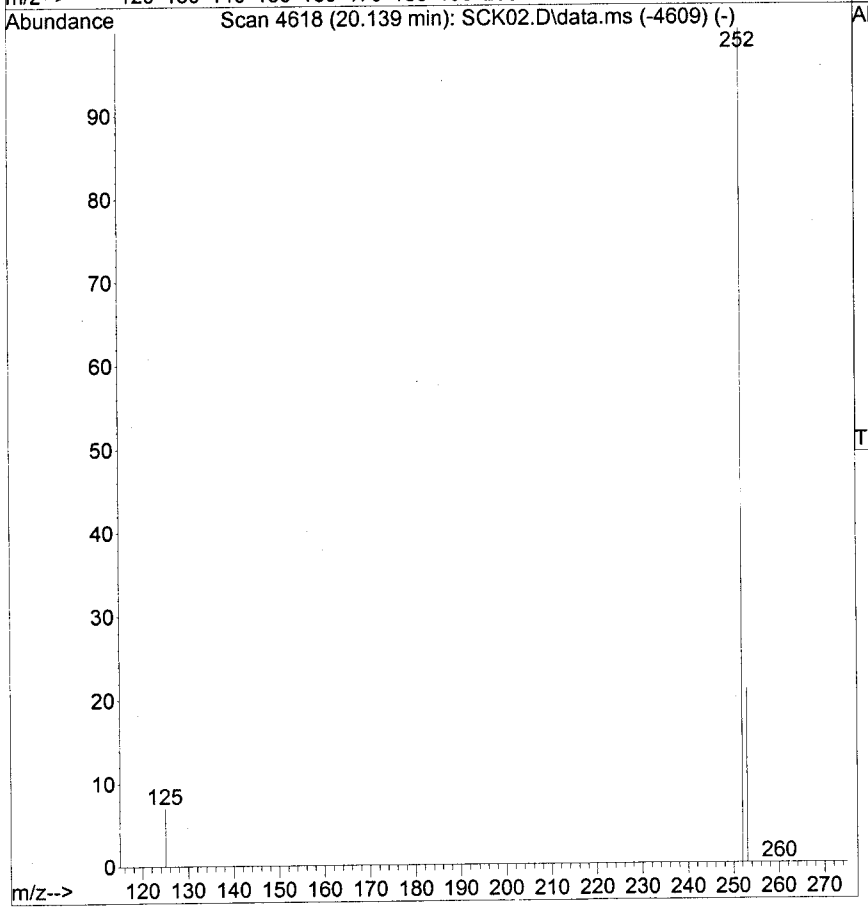
#25
Benzo(a)pyrene
Concen: 0.0601 ug/mL
RT: 20.162 min Scan# 4624
Delta R.T. 0.023 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

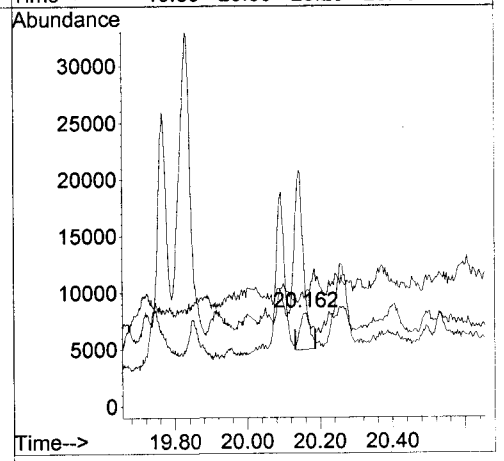
Tgt Ion:252 Resp: 6261

Ion	Ratio	Lower	Upper
252	100		
253	111.3	4.8	44.8#
125	123.3	0.0	32.3#



Ref

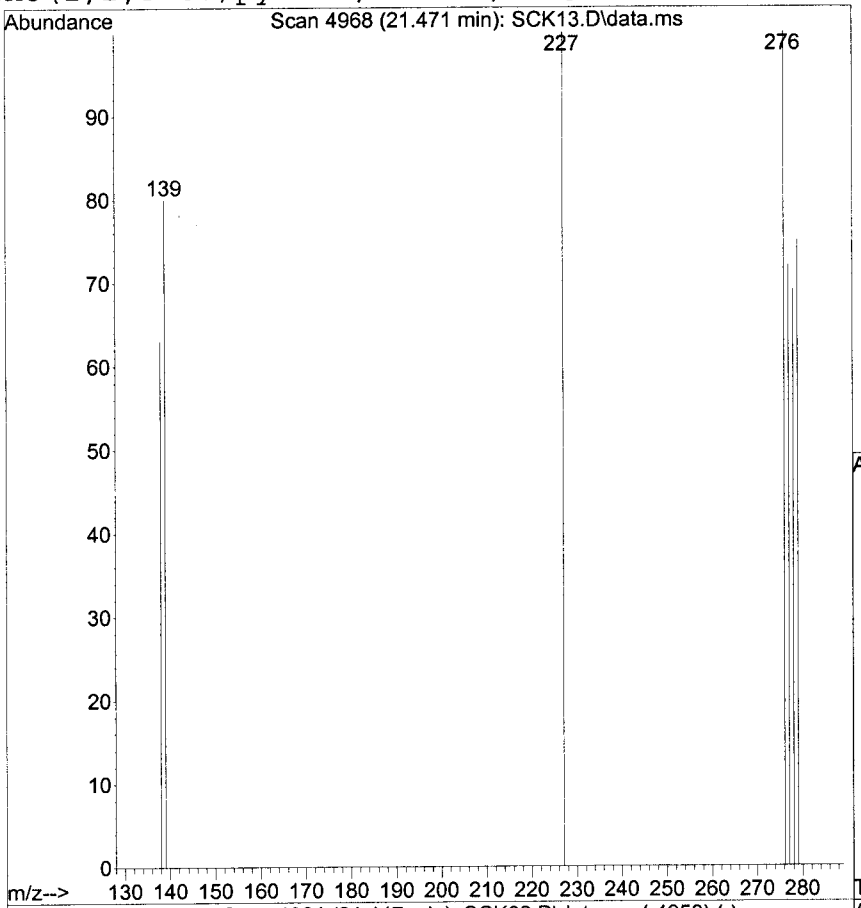




00149

[Indeno(1,2,3-cd)pyrene; 4.7 J; u]

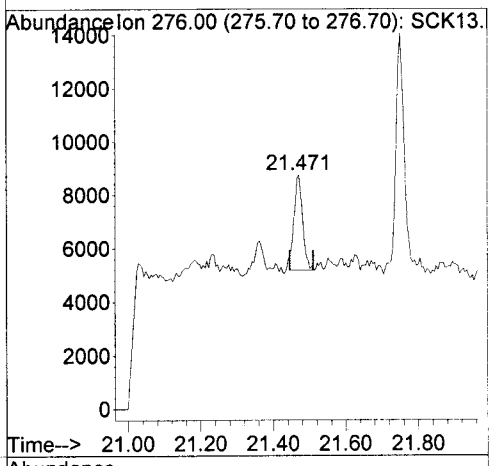
Raw



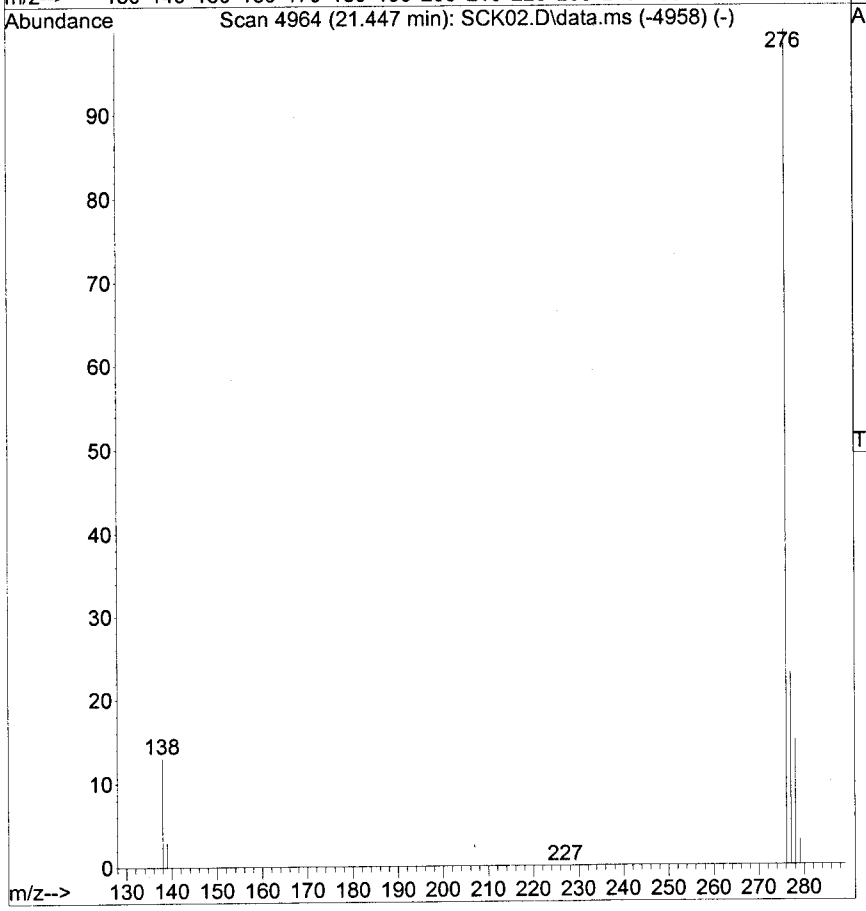
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0713 ug/mL
RT: 21.471 min Scan# 4968
Delta R.T. 0.025 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

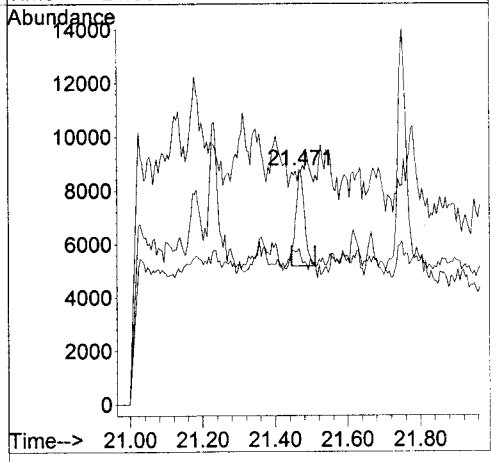
Tgt Ion:276 Resp: 5727

Ion	Ratio	Lower	Upper
276	100		
138	63.3	2.0	42.0#
227	99.7	0.0	26.7#



Ref

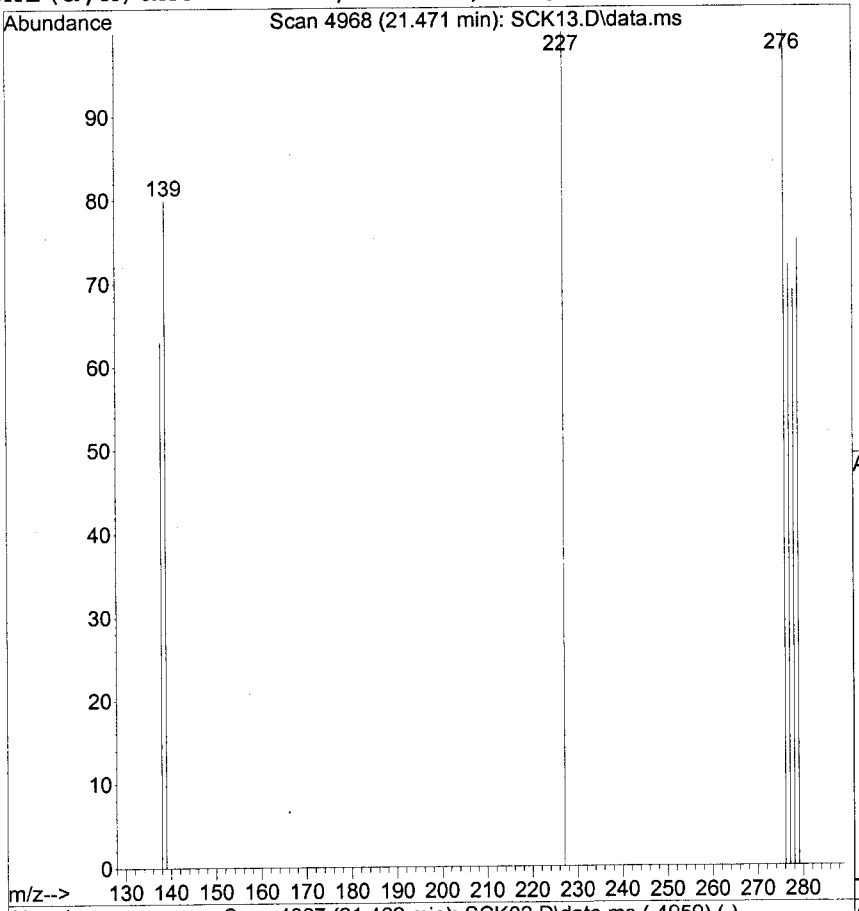




00150

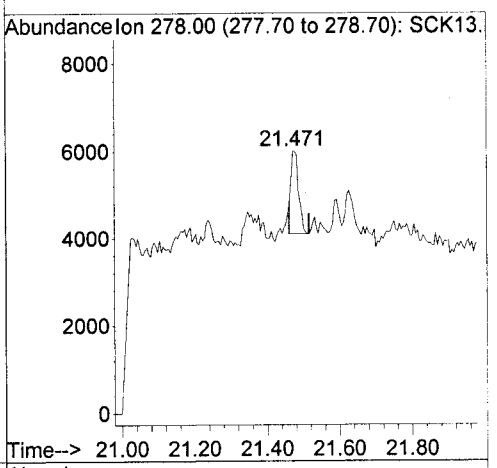
[Dibenz(a,h)anthracene; 4.5 J; u]

Raw

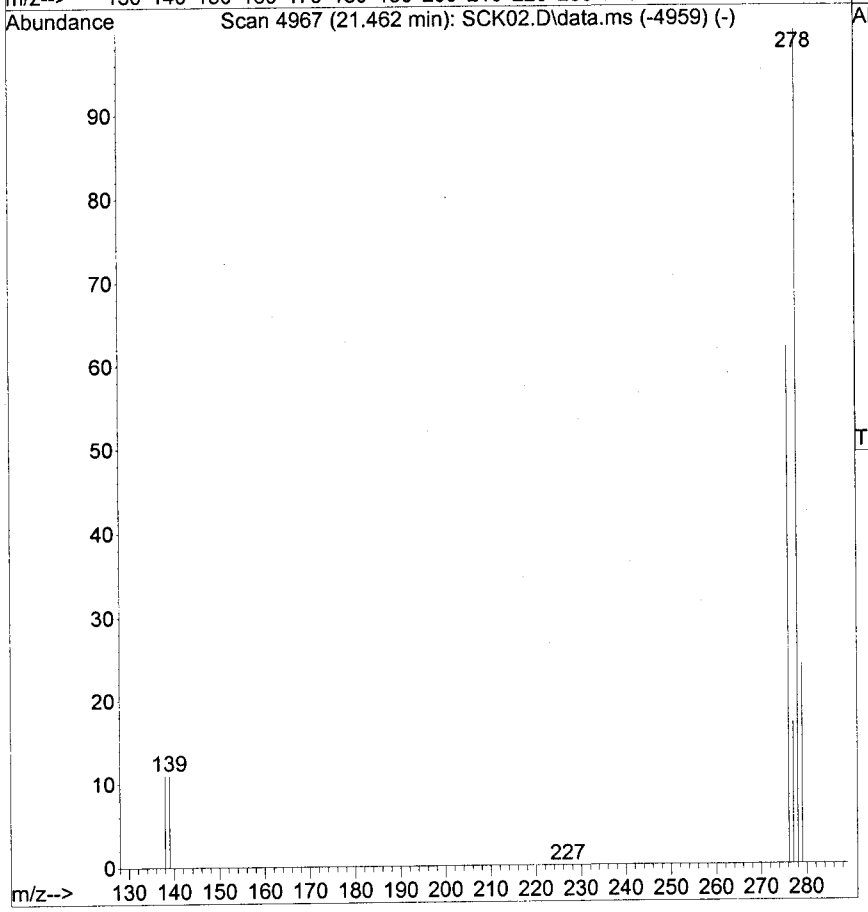


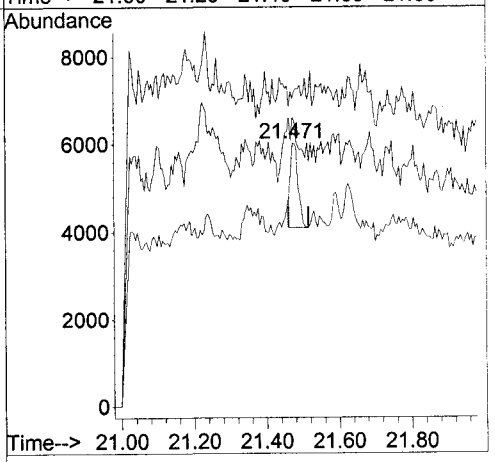
#27
Dibenz(a,h)anthracene
Concen: 0.0685 ug/mL
RT: 21.471 min Scan# 4968
Delta R.T. 0.010 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

Tgt Ion:278	Resp:	2743	
Ion	Ratio	Lower	Upper
278	100		
139	116.9	8.1	48.1#
279	109.8	15.9	55.9#



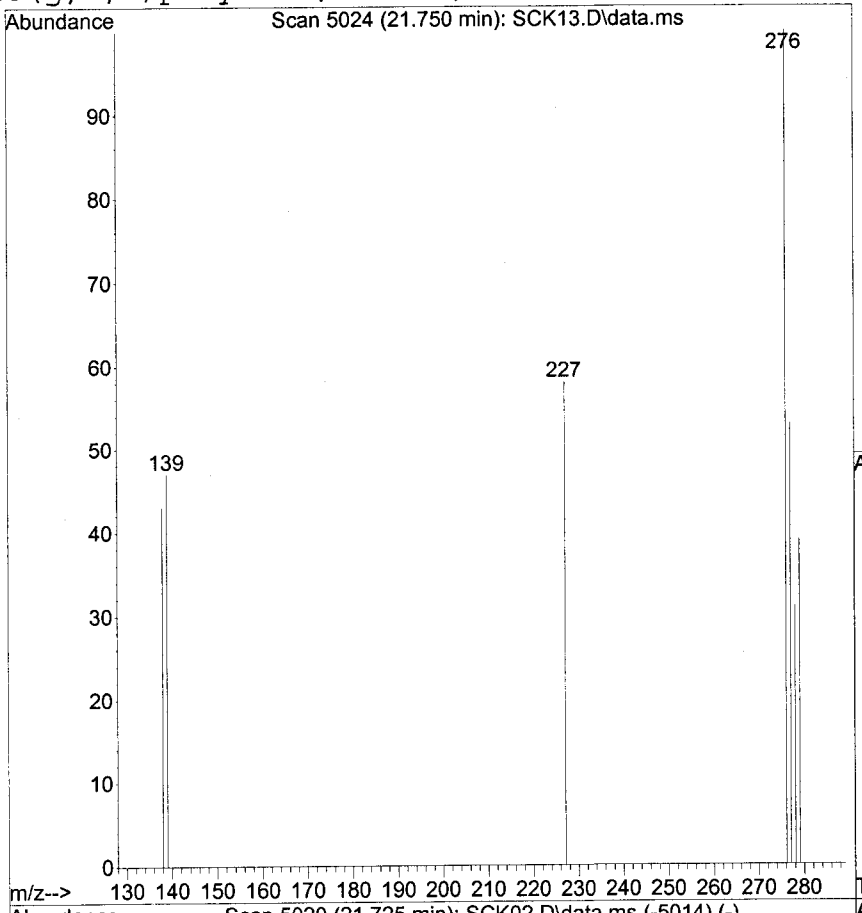
Ref





[Benzo(g,h,i)perylene; 9.5 J; u]

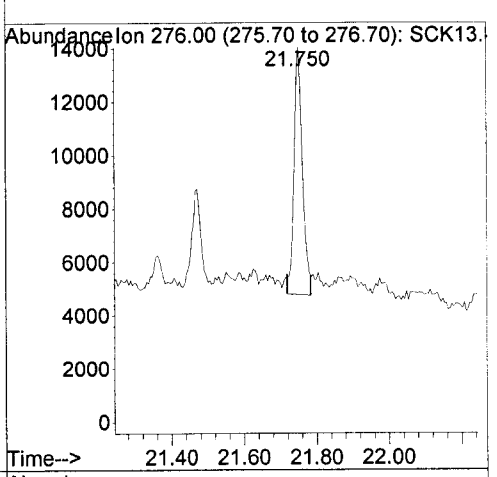
Raw



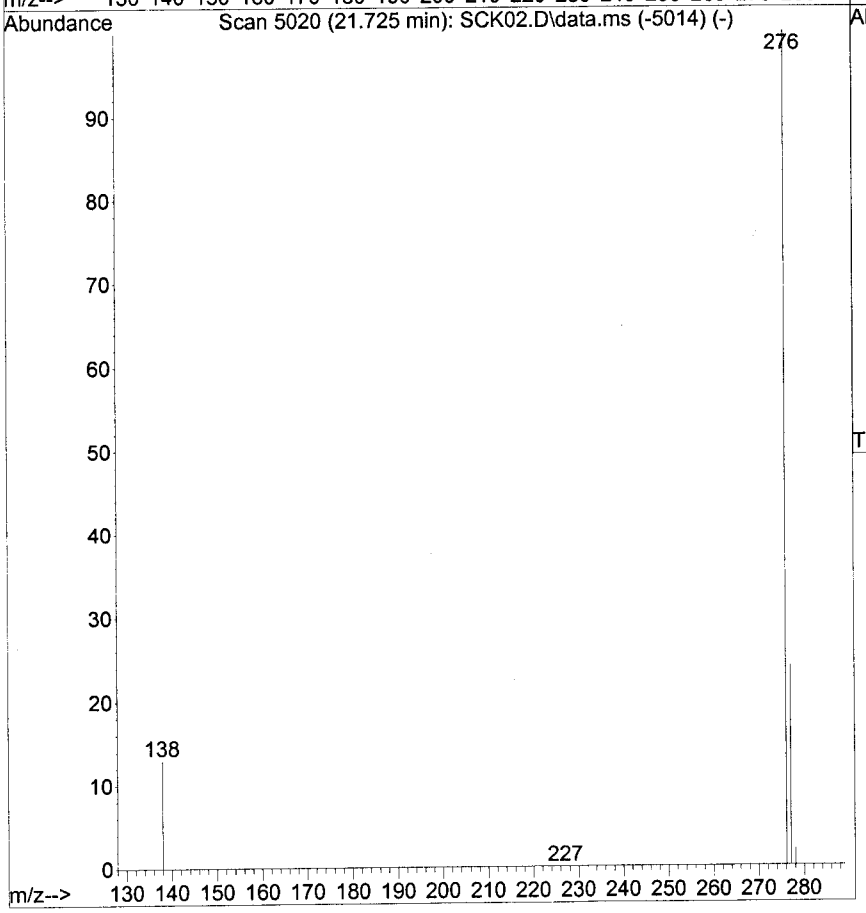
#28
Benzo(g,h,i)perylene
Concen: 0.1449 ug/mL
RT: 21.750 min Scan# 5024
Delta R.T. 0.025 min
Lab File: SCK13.D
Acq: 20 Mar 2008 4:40 pm

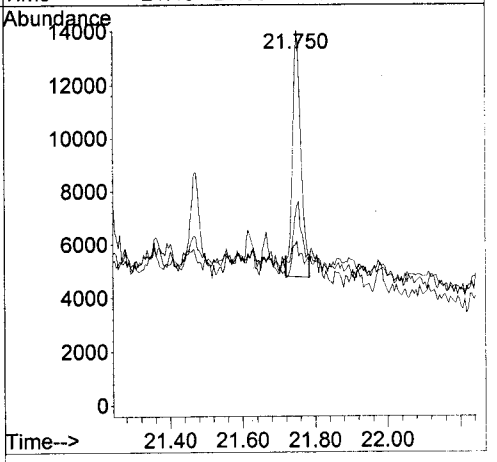
Tgt Ion:276 Resp: 14997

Ion	Ratio	Lower	Upper
276	100		
138	43.5	0.8	40.8#
277	52.9	6.2	46.2#



Ref





CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst	: MSBNA08	Lab ID	: 202043-006	Client ID	: DUP031908
Seqnum	: 578115801004	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: sck04	Batch	: 136173	Time	: 20-MAR-2008 11:32
Cal	: 578083102001	Caldate	: 26-FEB-2008		
IDF	: 1.0	Raw Units	: ug/mL	Units	: ug/Kg

30.23 g --> 1.0 ml = 0.03308 ml/g PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.007800	ND	5.0		u
2-Methylnaphthalene	0	ND	5.0		u
Acenaphthylene	0	ND	5.0		u
Acenaphthene	0	ND	5.0		u
Fluorene	0	ND	5.0		u
Phenanthrene	0.01140	ND	5.0		m u
Anthracene	0.003800	ND	5.0		u
Fluoranthene	0.003000	ND	5.0		u
Pyrene	0.005700	ND	5.0		u
Benzo(a)anthracene	0	ND	5.0		u
Chrysene	0	ND	5.0		u
Benzo(b)fluoranthene	0.04150	1.4 J	5.0		?curve+ m u x
Benzo(k)fluoranthene	0.003800	ND	5.0		m u
Benzo(a)pyrene	0.004900	ND	5.0		u
Indeno(1,2,3-cd)pyrene	0.01880	0.62 J	5.0		?curve+ u x
Dibenz(a,h)anthracene	0	ND	5.0		u
Benzo(g,h,i)perylene	0.008500	ND	5.0		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.9526	33.08	31.51	95	23-120	u
2-Fluorobiphenyl	0.8563	33.08	28.33	86	30-115	u
Terphenyl-d14	1.002	33.08	33.14	100	18-137	u

ISTD (CCV sck02)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE R	Drift
Naphthalene-d8	64577	54901	-14.98	10.60	10.59	-0.01
Acenaphthene-d10	45669	36164	-20.81	12.82	12.82	0.00
Phenanthrene-d10	83109	66702	-19.74	14.72	14.72	0.00
Chrysene-d12	92399	62786	-32.05	18.27	18.27	0.00
Perylene-d12	87612	68790	-21.48	20.21	20.21	0.00

JAJ: 03/20/08 LLH: 03/20/08 EAH: 03/21/08

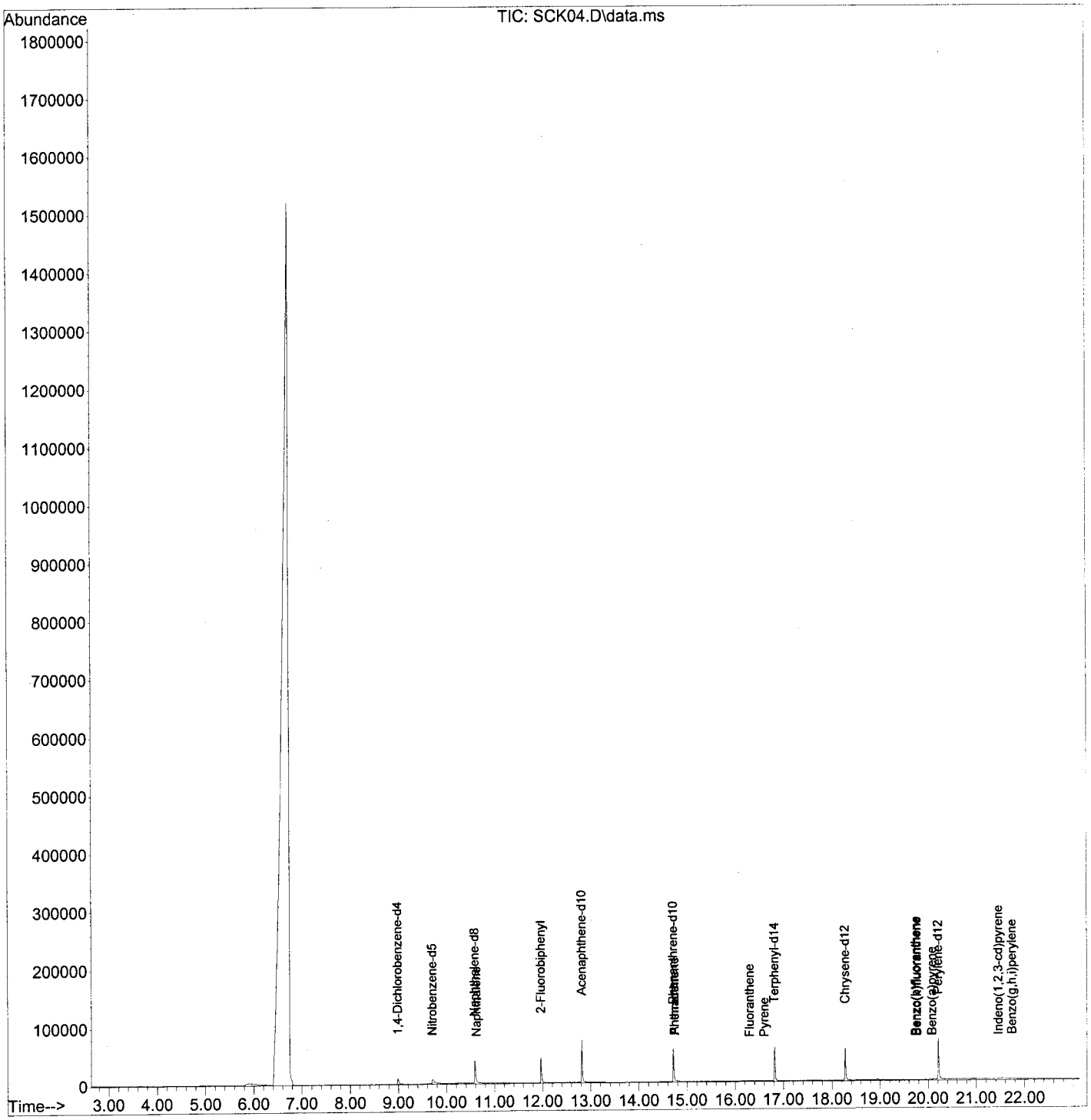
+=high bias ?curve=check curve m=manual integration u=use x=false positive

578115801004

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK04.D
Acq On : 20 Mar 2008 11:32 am
Operator :
Sample : S,202043-006
Misc : 136173,1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 20 11:58:17 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration



00154

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK04.D
Acq On : 20 Mar 2008 11:32 am
Operator :
Sample : S,202043-006
Misc : 136173,1,
ALS Vial : 4 Sample Multiplier: 1

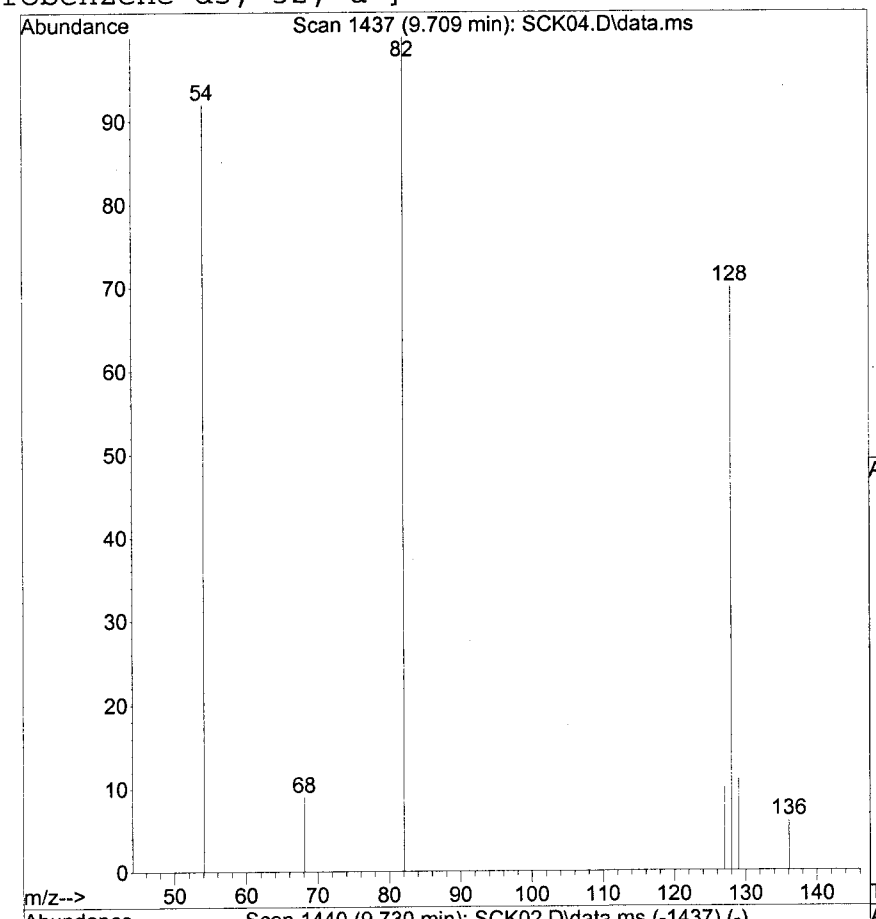
Quant Time: Mar 20 11:58:17 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	8.990	152	13641	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.588	136	54901	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.816	164	36164	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.718	188	66702	1.0000	ug/mL	0.00
17) Chrysene-d12	18.274	240	62786	1.0000	ug/mL	0.00
22) Perylene-d12	20.208	264	68790	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.		
4) Nitrobenzene-d5	9.709	82	7393	0.9526	ug/mL	98
5) Naphthalene	10.622	128	437	0.0078	ug/mL #	8
6) 2-Methylnaphthalene	0.000	142	0	N.D.		
7) 1-Methylnaphthalene	0.000	142	0	N.D.		
9) 2-Fluorobiphenyl	11.968	172	40684	0.8563	ug/mL	94
10) Acenaphthylene	0.000	152	0	N.D.		
11) Acenaphthene	0.000	154	0	N.D.		
12) Fluorene	0.000	166	0	N.D.		
14) Phenanthrene	14.746	178	826m	0.0114	ug/mL	
15) Anthracene	14.746	178	278	0.0038	ug/mL #	47
16) Fluoranthene	16.301	202	250	0.0030	ug/mL #	27
18) Pyrene	16.603	202	462	0.0057	ug/mL #	62
19) Terphenyl-d14	16.816	244	60419	1.0017	ug/mL	97
20) Benzo(a)anthracene	0.000	228	0	N.D.		
21) Chrysene	0.000	228	0	N.D.		
23) Benzo(b)fluoranthene	19.742	252	481m	0.0415	ug/mL	
24) Benzo(k)fluoranthene	19.770	252	334m	0.0038	ug/mL	
25) Benzo(a)pyrene	20.083	252	379	0.0049	ug/mL #	1
26) Indeno(1,2,3-cd)pyrene	21.462	276	353	0.0188	ug/mL #	5
27) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
28) Benzo(g,h,i)perylene	21.741	276	648	0.0085	ug/mL #	36

(#) = qualifier out of range (m) = manual integration (+) = signals summed

[Nitrobenzene-d5; 32; u]

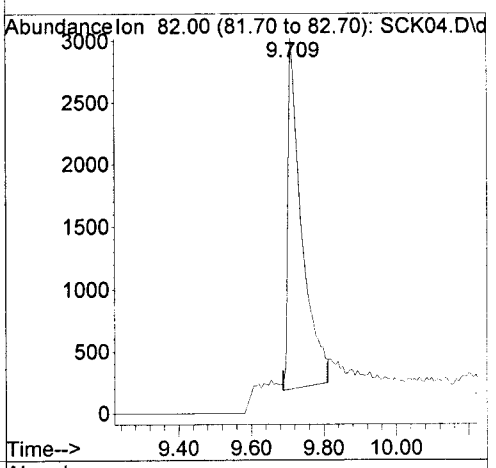
Raw



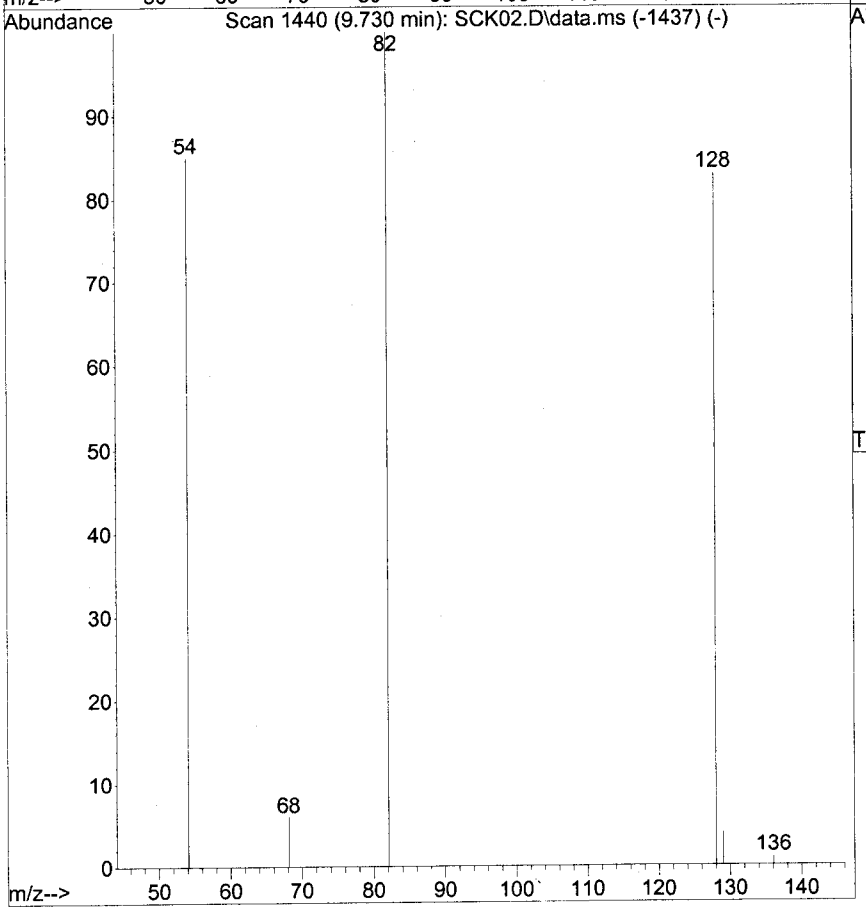
#4
Nitrobenzene-d5
Concen: 0.9526 ug/mL
RT: 9.709 min Scan# 1437
Delta R.T. -0.021 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

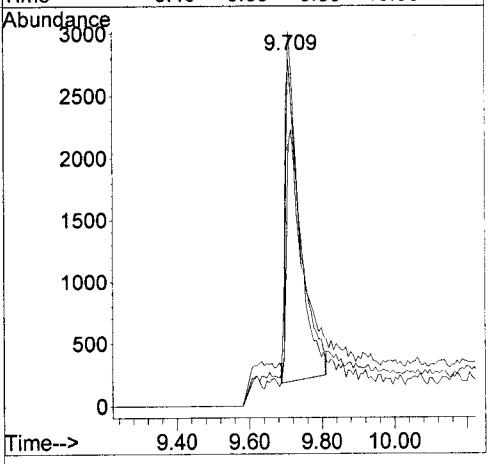
Tgt Ion: 82 Resp: 7393

Ion	Ratio	Lower	Upper
82	100		
128	69.8	52.7	92.7
54	92.5	73.3	113.3



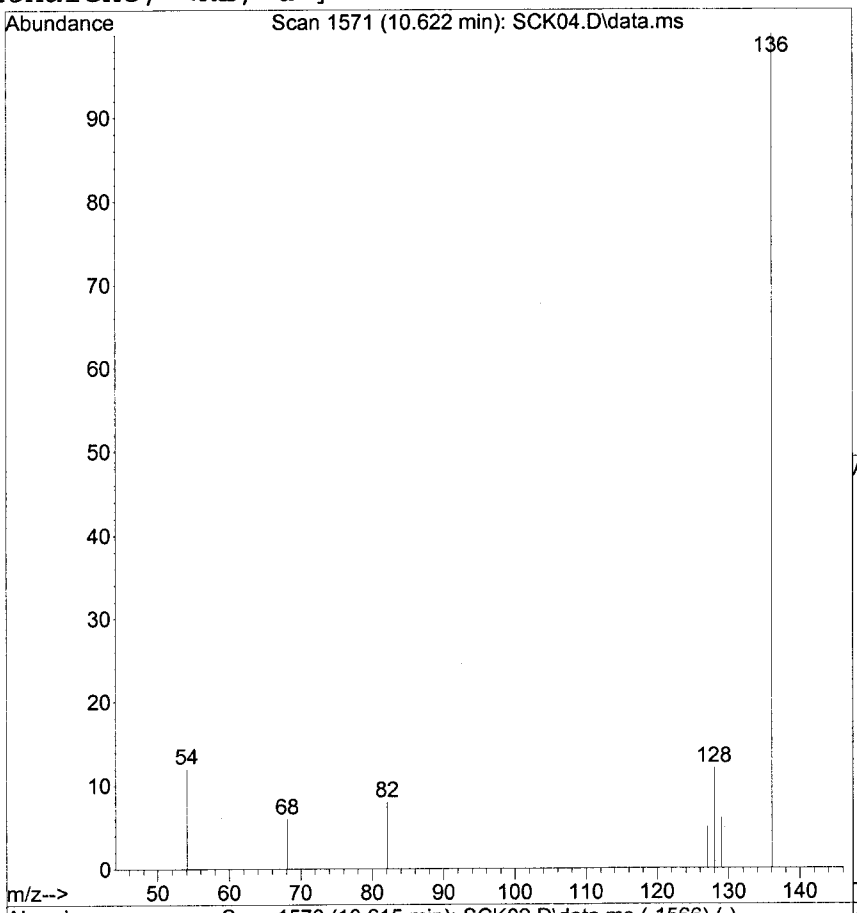
Ref





[Naphthalene; <RL; u]

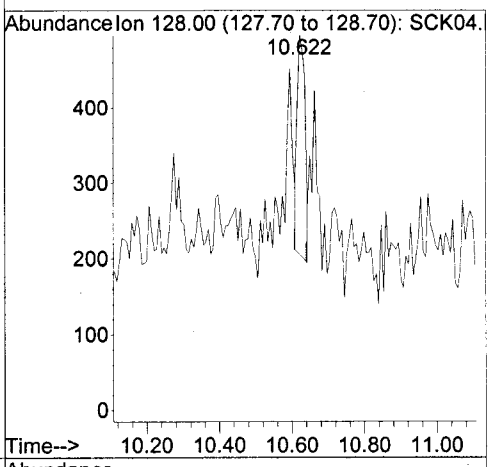
Raw



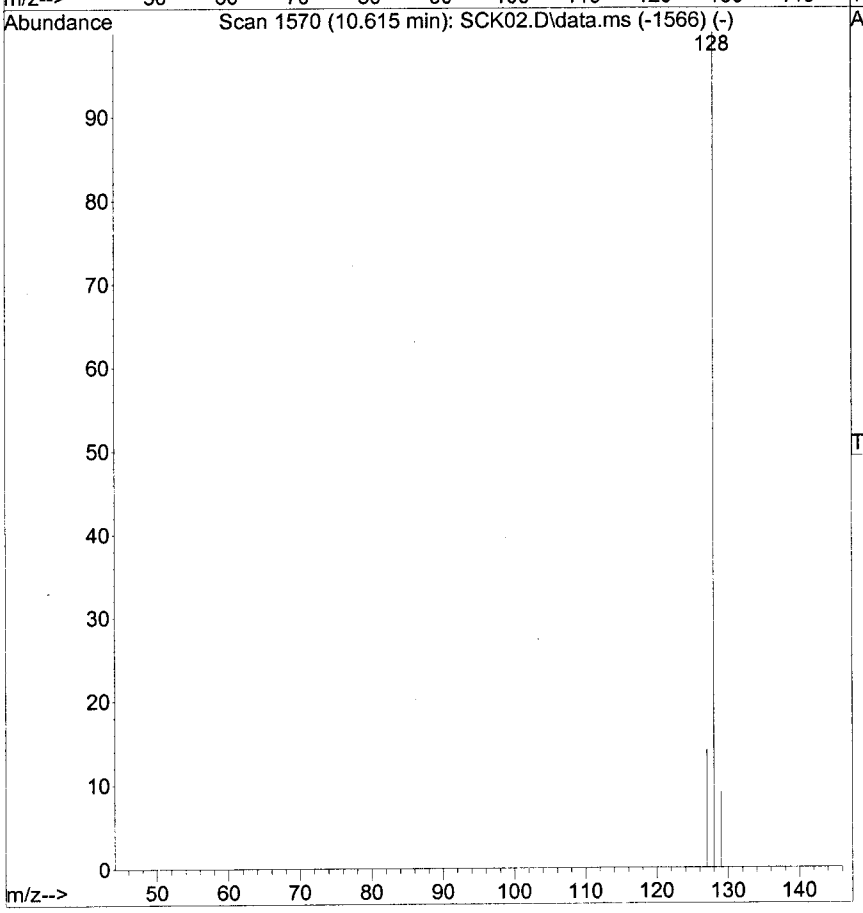
#5
Naphthalene
Concen: 0.0078 ug/mL
RT: 10.622 min Scan# 1571
Delta R.T. 0.007 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

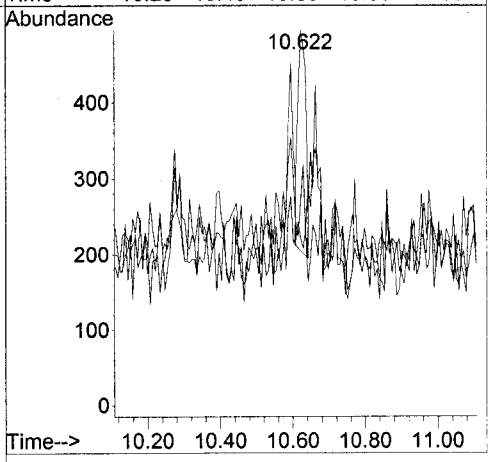
Tgt Ion:128 Resp: 437

Ion	Ratio	Lower	Upper
128	100		
129	54.6	0.0	31.8#
127	44.6	0.0	33.9#



Ref

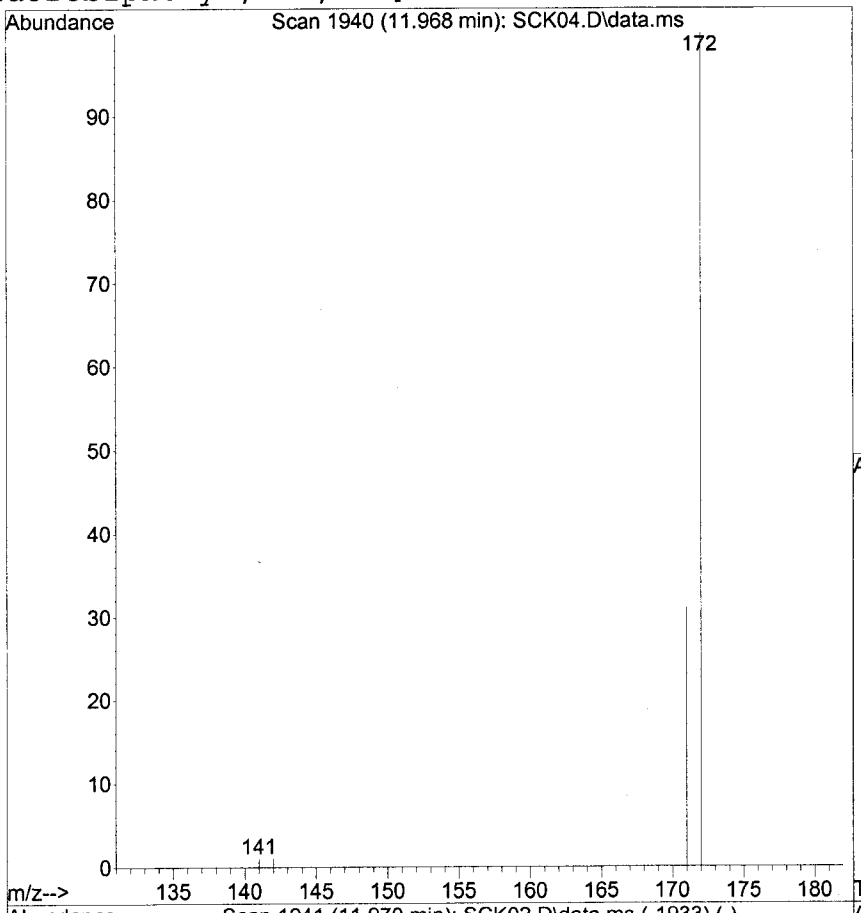




00157

[2-Fluorobiphenyl; 28; u]

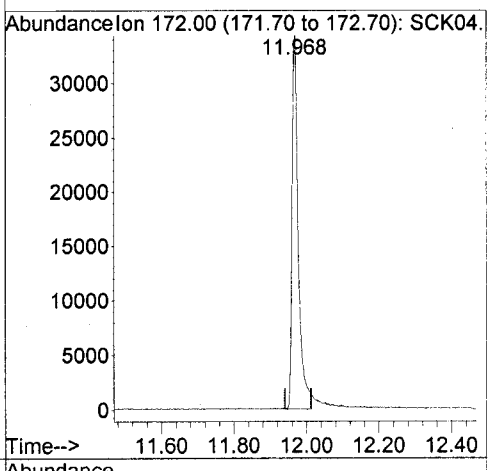
Raw



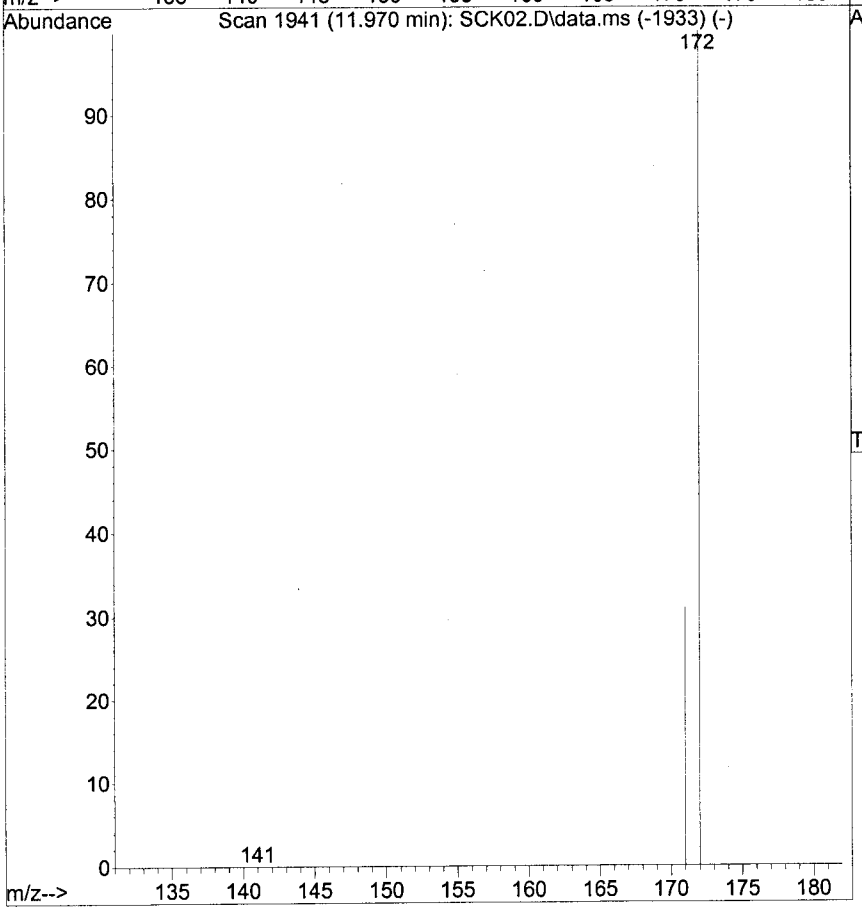
#9
2-Fluorobiphenyl
Concen: 0.8563 ug/mL
RT: 11.968 min Scan# 1940
Delta R.T. -0.002 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

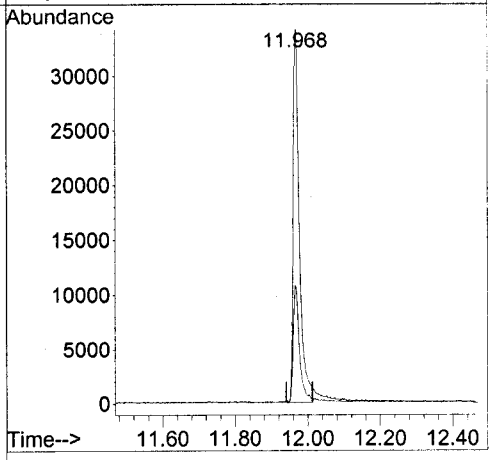
Tgt Ion:172 Resp: 40684

Ion	Ratio	Lower	Upper
172	100		
171	31.0	14.3	54.3



Ref

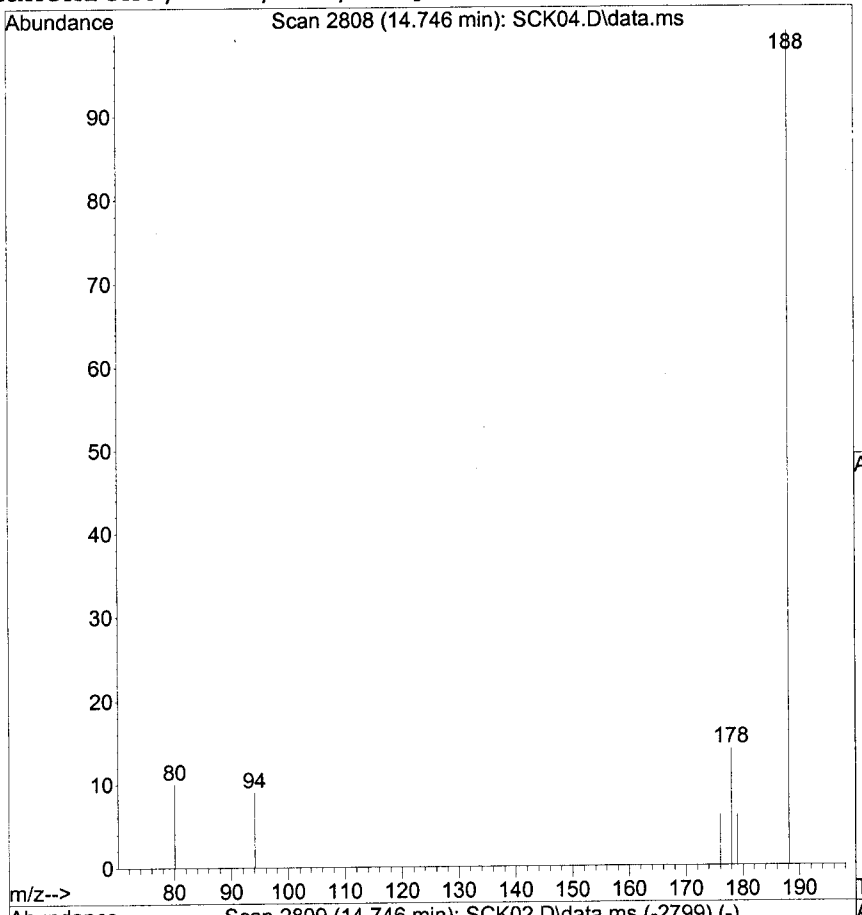




00158

[Phenanthrene; <RL; MI; u]

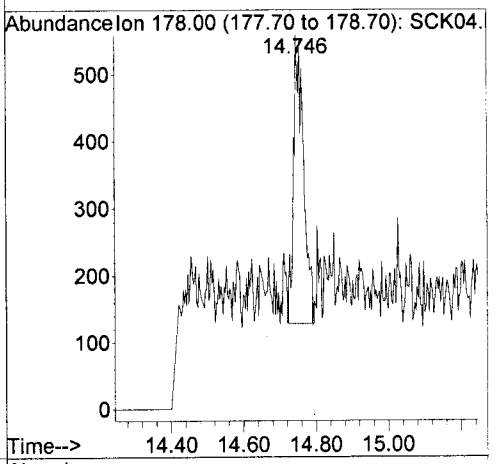
Raw



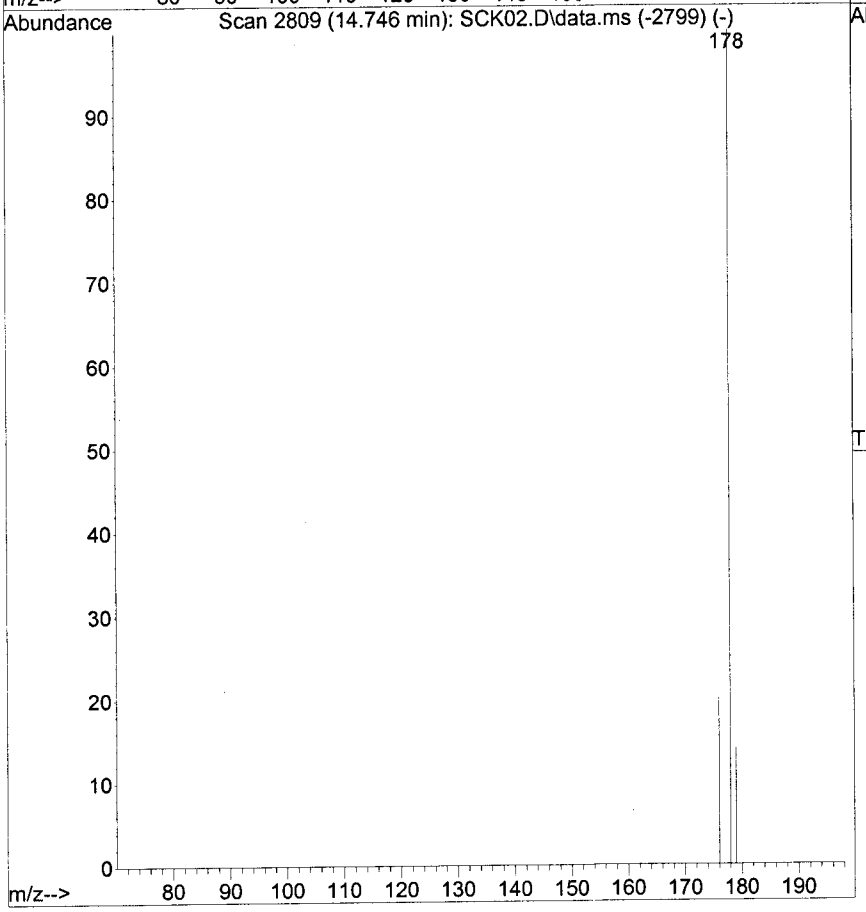
#14
Phenanthrene
Concen: 0.0114 ug/mL m
RT: 14.746 min Scan# 2808
Delta R.T. 0.000 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

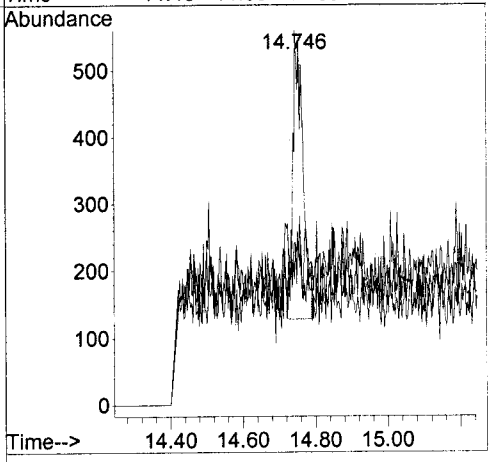
Tgt Ion:178 Resp: 826

Ion	Ratio	Lower	Upper
178	100		
179	43.2	0.0	36.0#
176	42.7	0.7	40.7#



Ref

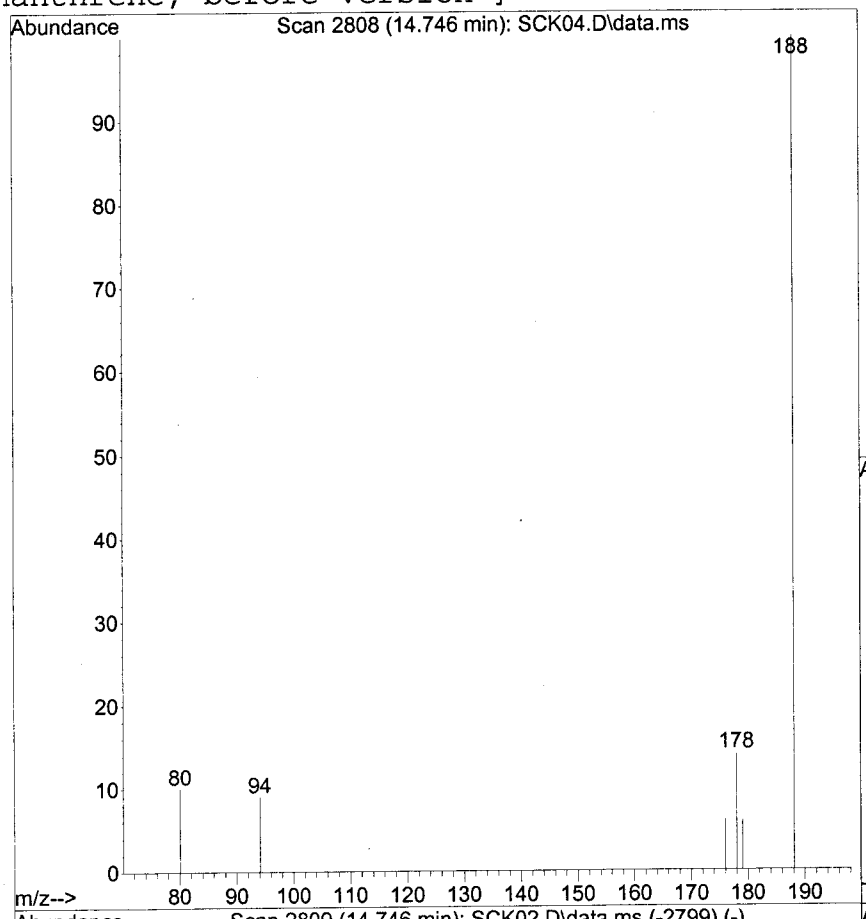




00159

[Phenanthrene; before version]

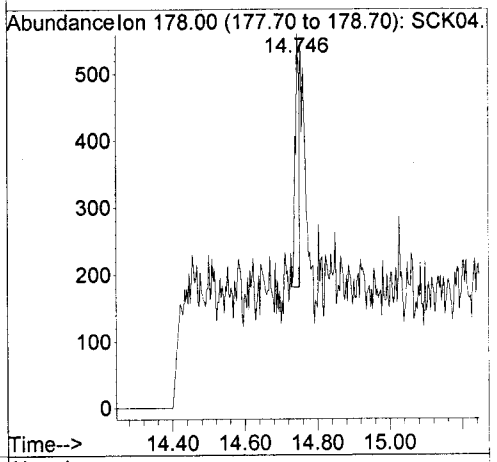
Raw



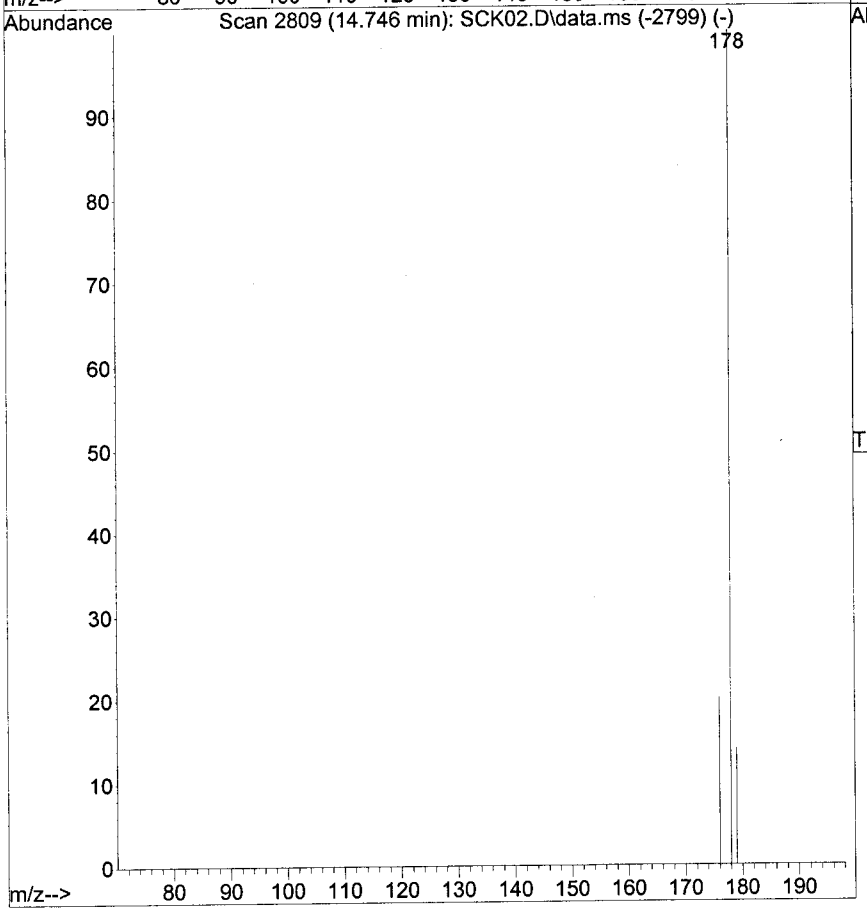
#14
Phenanthrene
Concen: 0.0039 ug/mL
RT: 14.746 min Scan# 2808
Delta R.T. 0.000 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

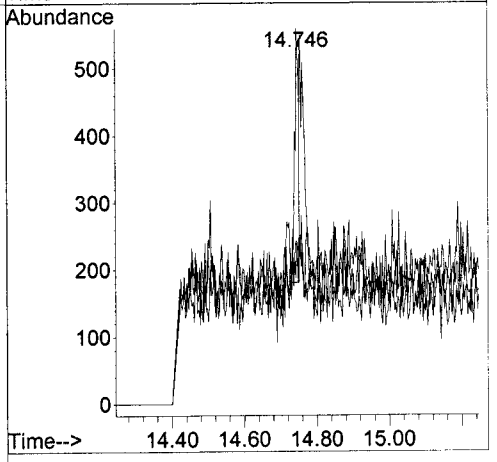
Tgt Ion:178 Resp: 278

Ion	Ratio	Lower	Upper
178	100		
179	43.2	0.0	36.0#
176	42.7	0.7	40.7#



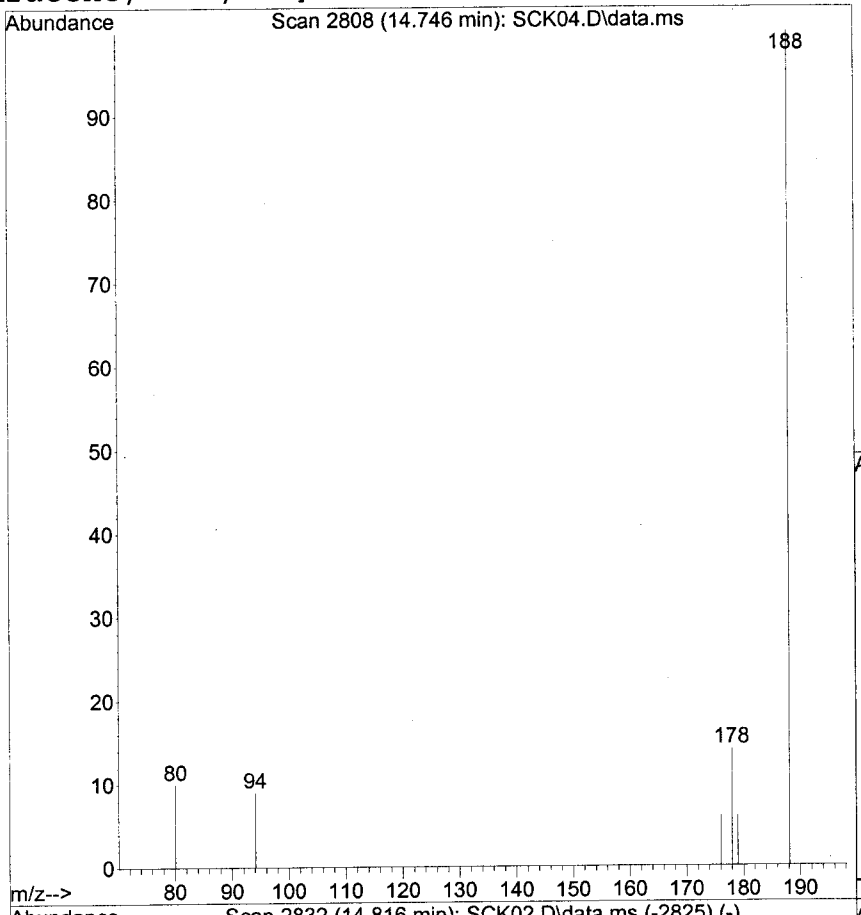
Ref





[Anthracene; <RL; u]

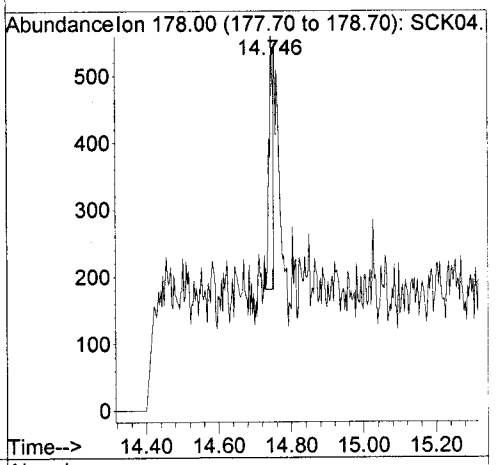
Raw



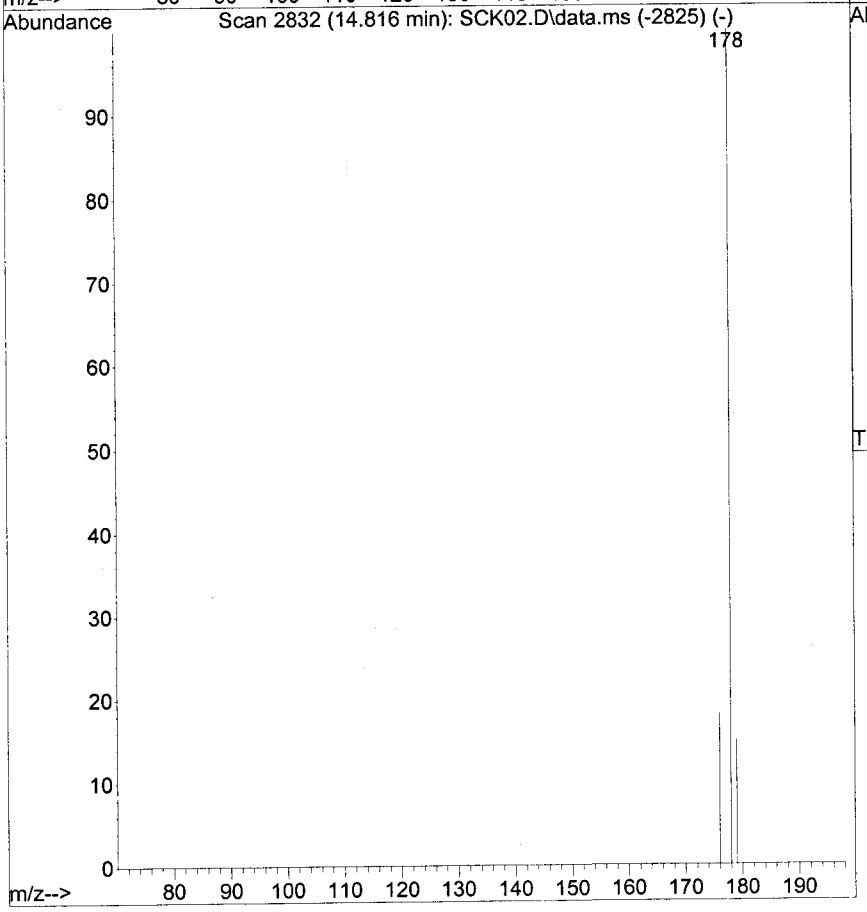
#15
Anthracene
Concen: 0.0038 ug/mL
RT: 14.746 min Scan# 2808
Delta R.T. -0.070 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

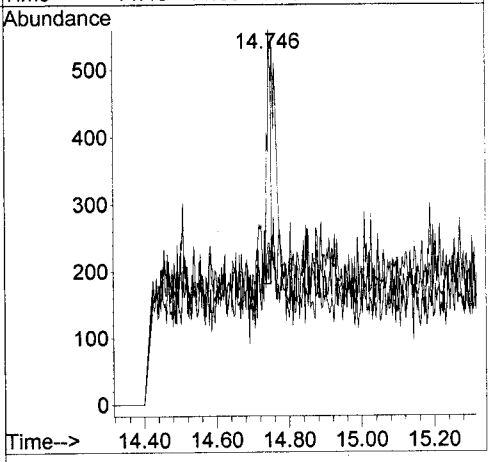
Tgt Ion:178 Resp: 278

Ion	Ratio	Lower	Upper
178	100		
179	43.2	0.0	38.7#
176	42.7	0.0	39.5#



Ref

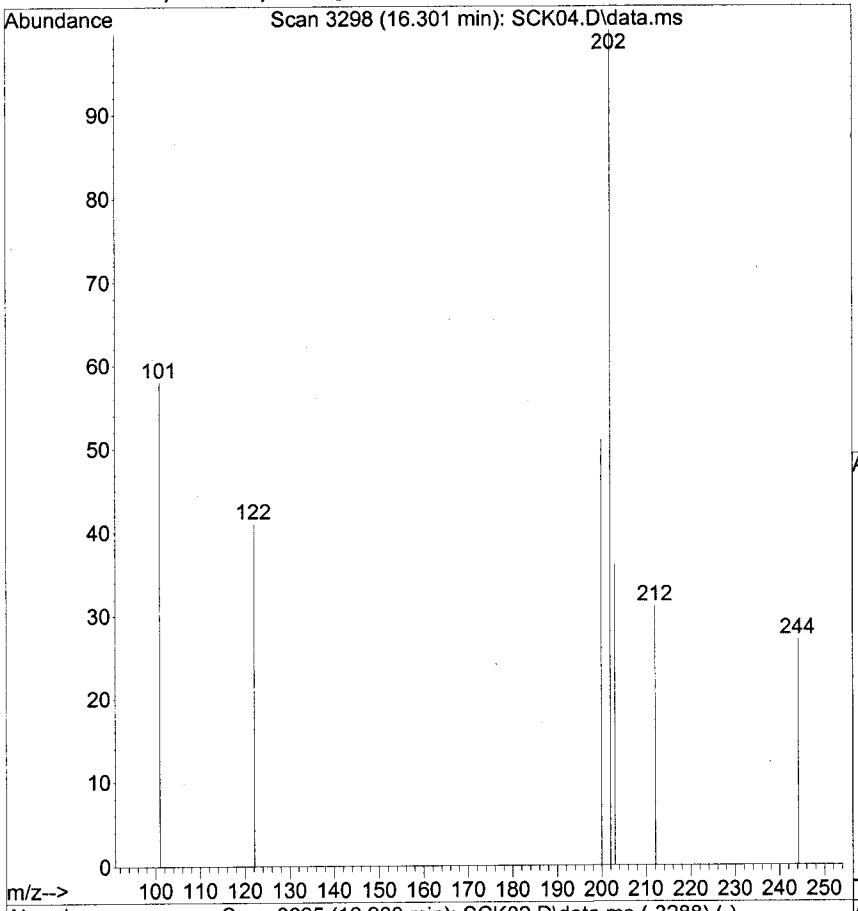




00151

[Fluoranthene; <RL; u]

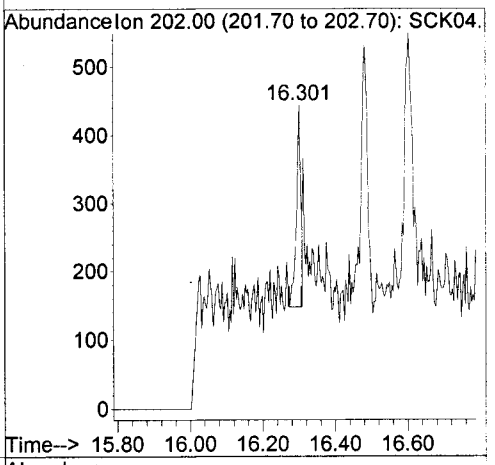
Raw



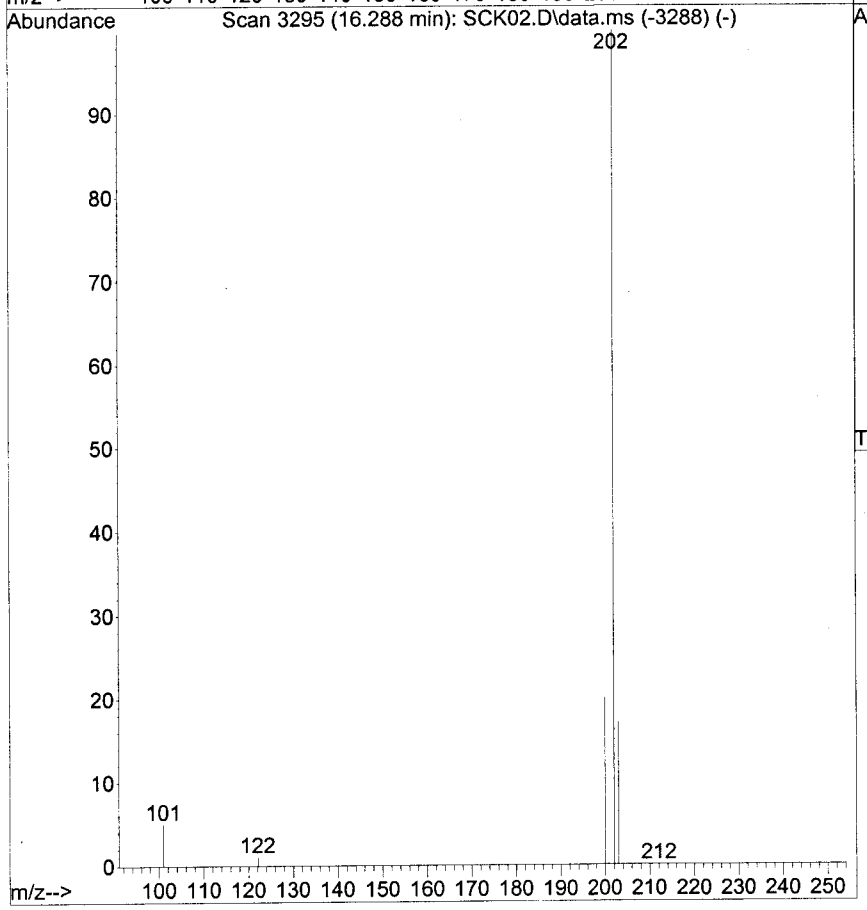
#16
Fluoranthene
Concen: 0.0030 ug/mL
RT: 16.301 min Scan# 3298
Delta R.T. 0.013 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

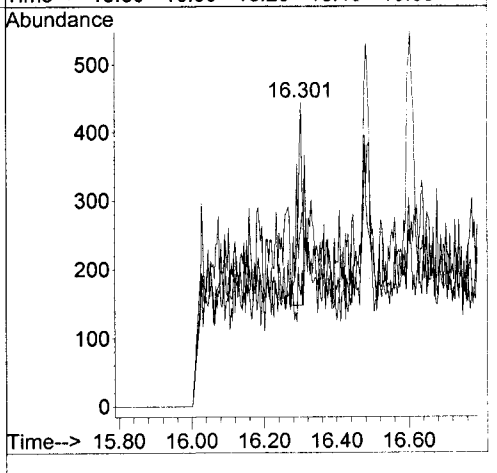
Tgt Ion:202 Resp: 250

Ion	Ratio	Lower	Upper
202	100		
101	58.3	0.0	30.0#
203	36.5	0.0	38.2



Ref

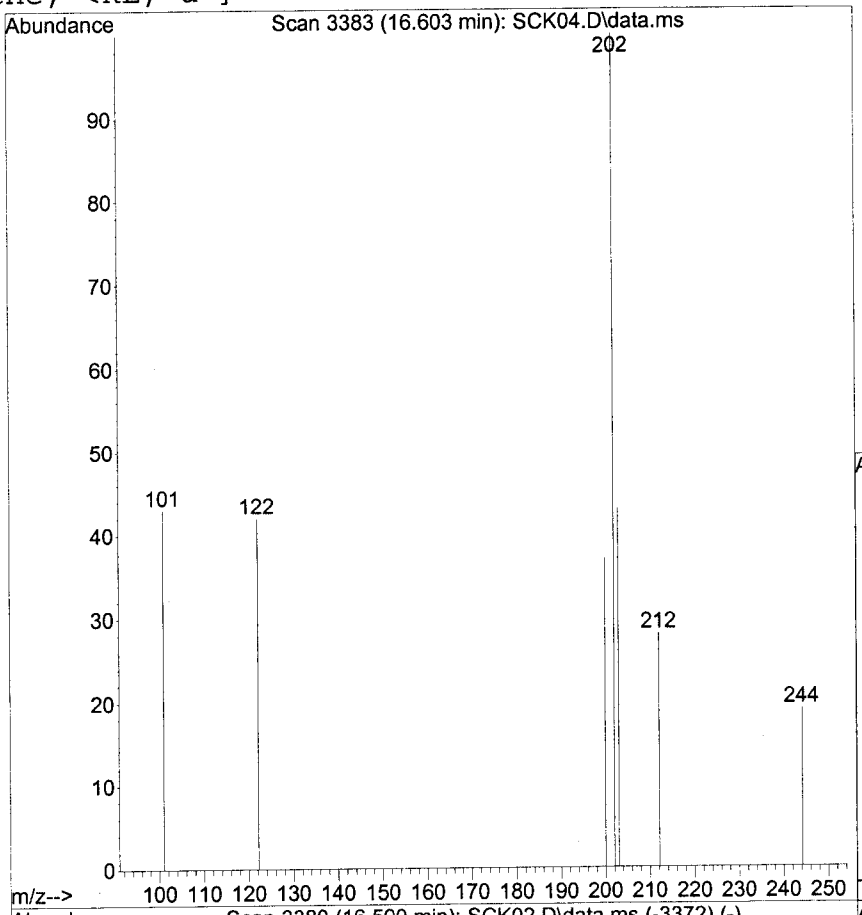




00162

[Pyrene; <RL; u]

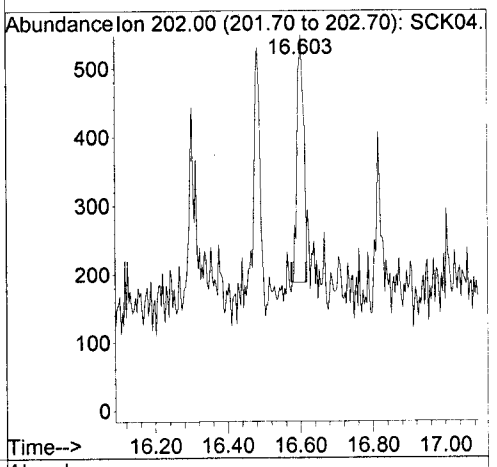
Raw



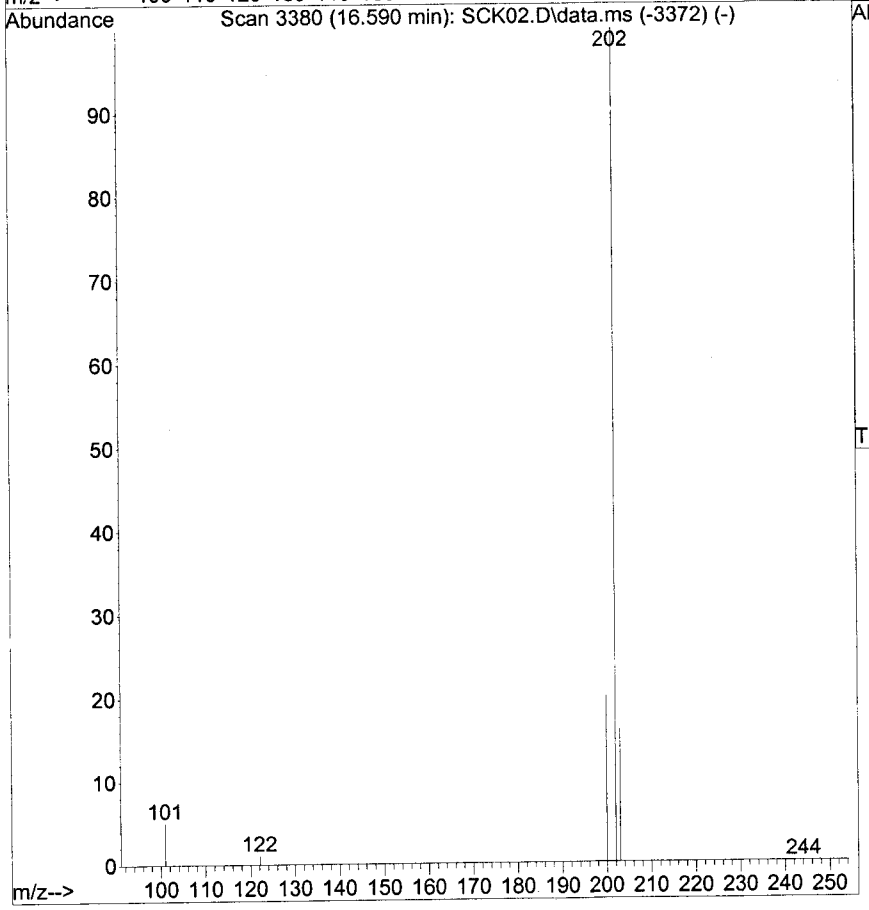
#18
Pyrene
Concen: 0.0057 ug/mL
RT: 16.603 min Scan# 3383
Delta R.T. 0.013 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

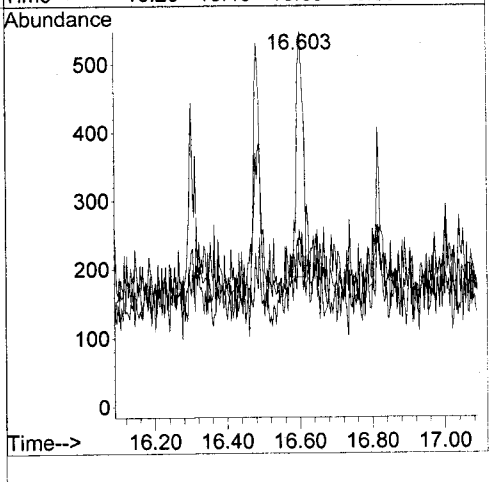
Tgt Ion:202 Resp: 462

Ion	Ratio	Lower	Upper
202	100		
200	37.0	4.2	44.2
203	43.0	0.0	39.3#



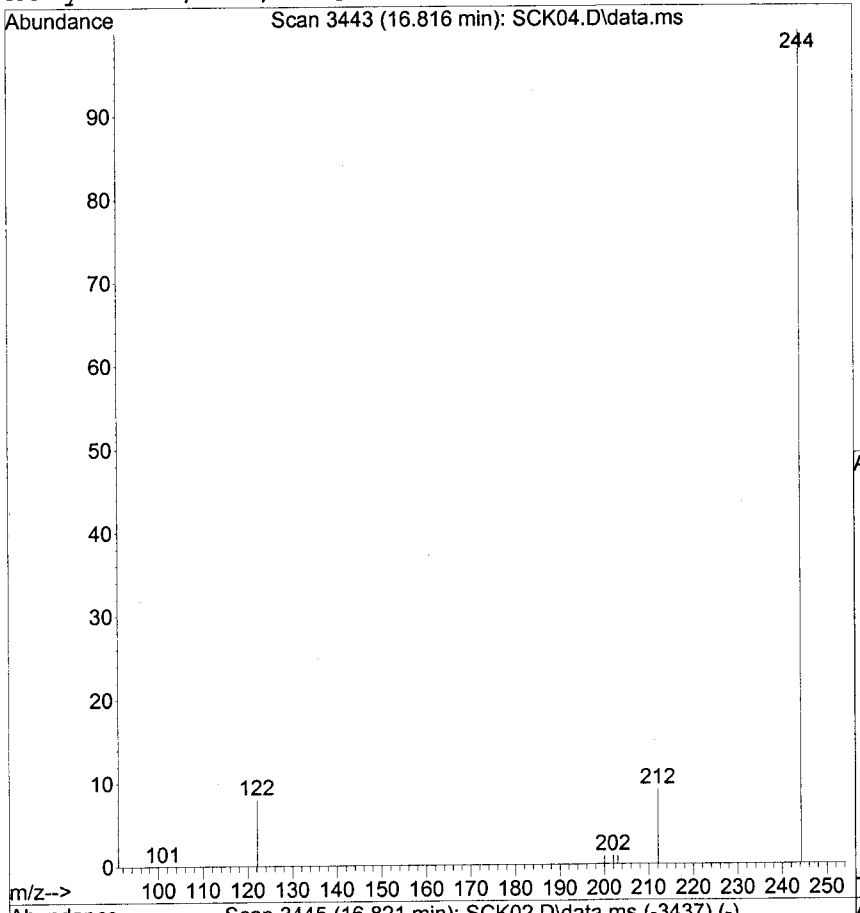
Ref





[Terphenyl-d14; 33; u]

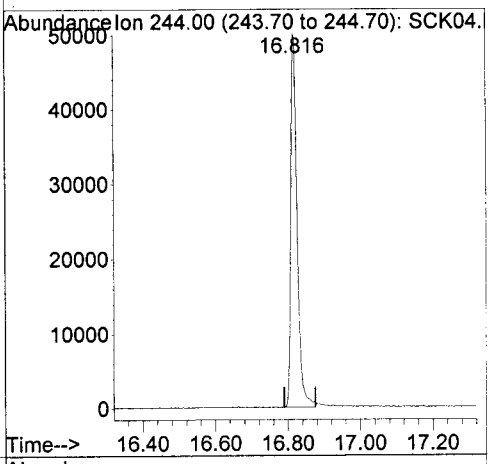
Raw



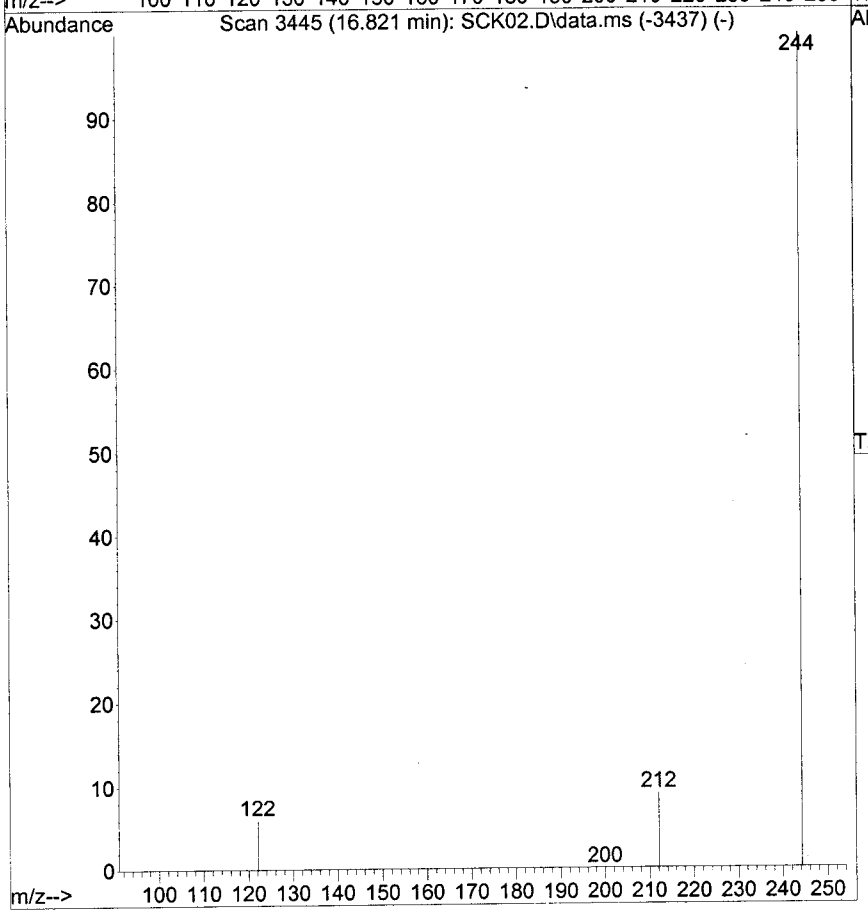
#19
Terphenyl-d14
Concen: 1.0017 ug/mL
RT: 16.816 min Scan# 3443
Delta R.T. -0.005 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

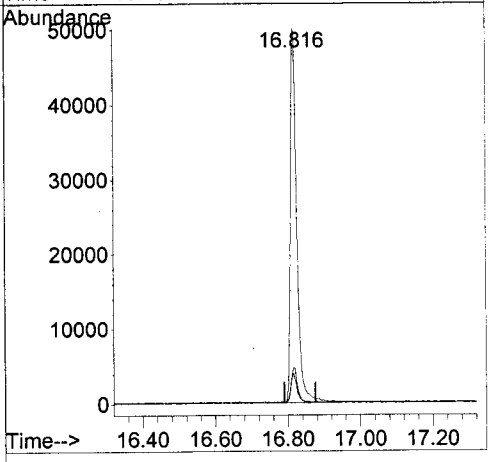
Tgt Ion:244 Resp: 60419

Ion	Ratio	Lower	Upper
244	100		
122	8.1	0.0	30.0
212	9.5	0.0	29.1



Ref

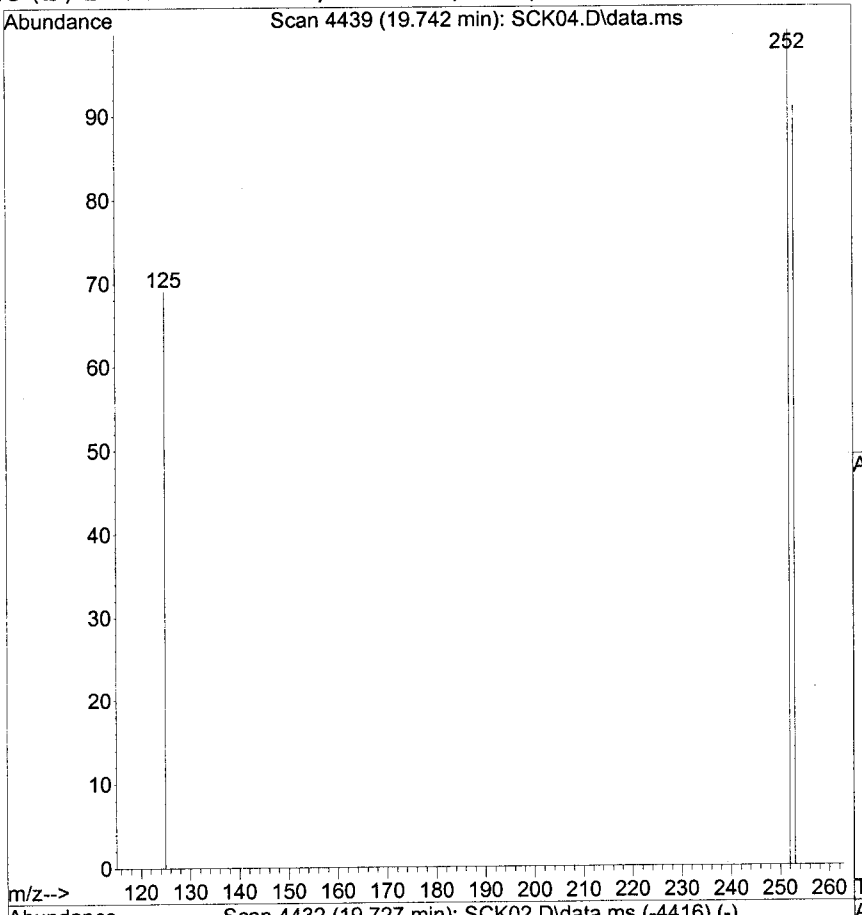




00164

[Benzo(b)fluoranthene; 1.4 J; MI; FP; u]

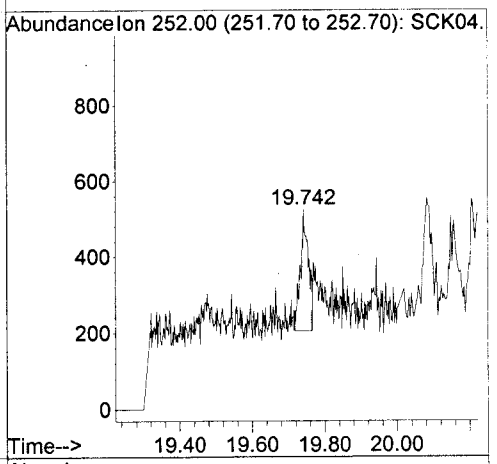
Raw



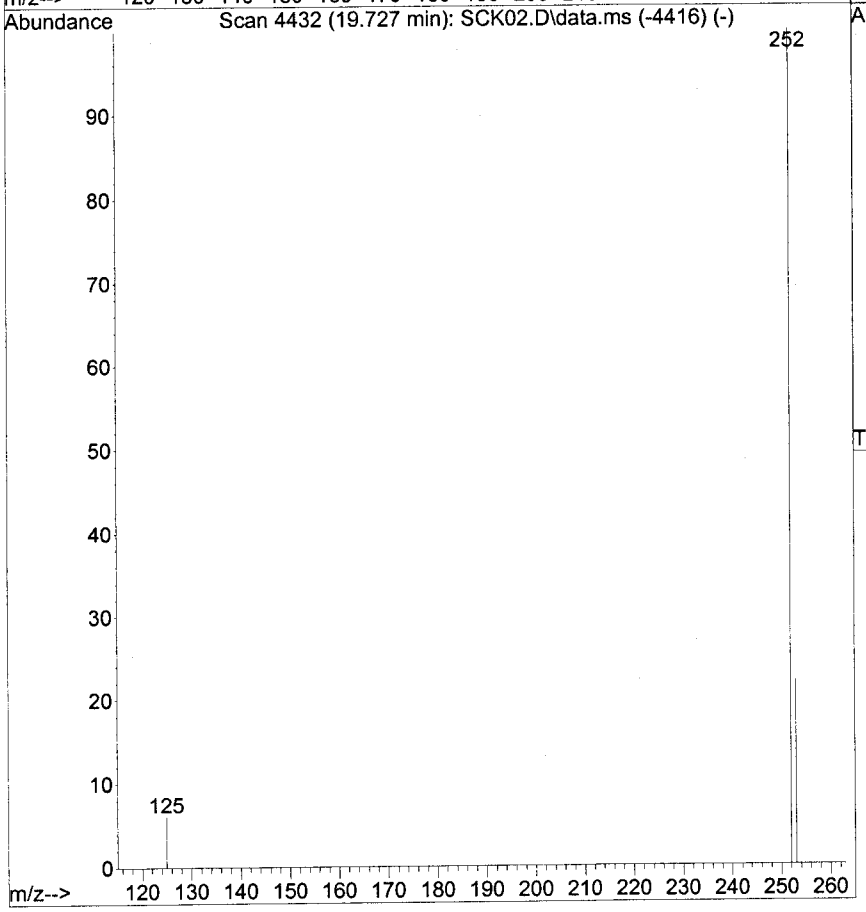
#23
Benzo(b)fluoranthene
Concen: 0.0415 ug/mL m
RT: 19.742 min Scan# 4439
Delta R.T. 0.015 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

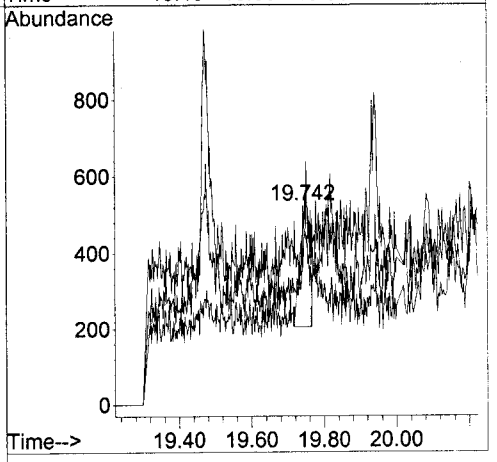
Tgt Ion:252 Resp: 481

Ion	Ratio	Lower	Upper
252	100		
253	90.6	3.6	43.6#
125	68.9	0.0	31.2#



Ref

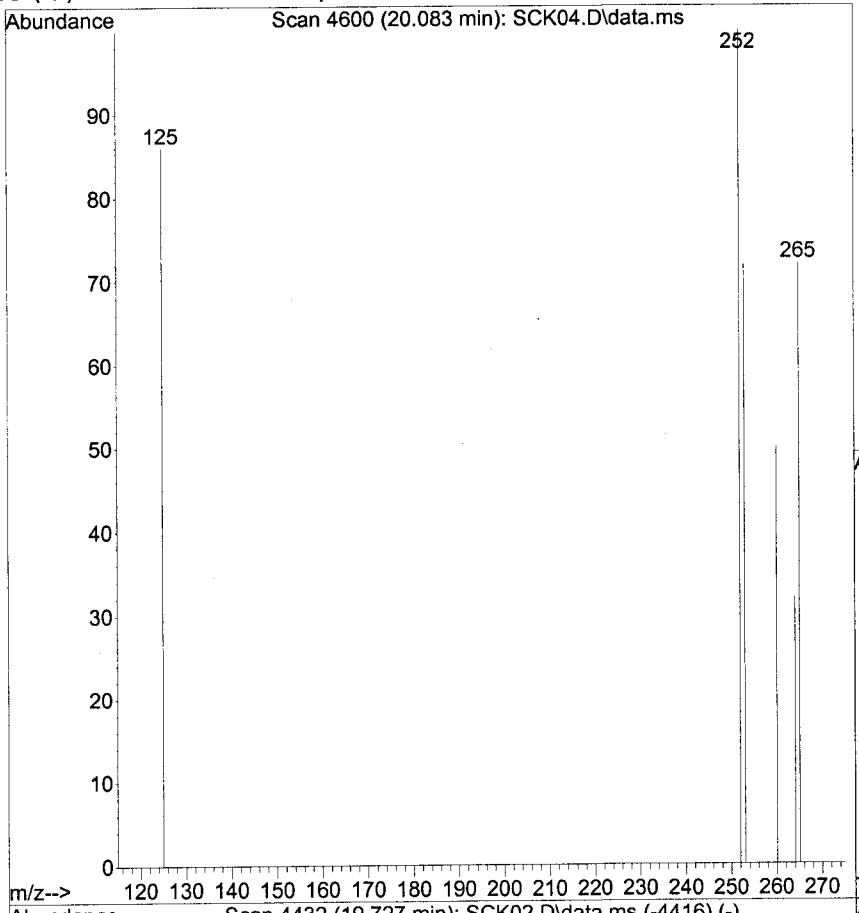




0165

[Benzo(b)fluoranthene; before version]

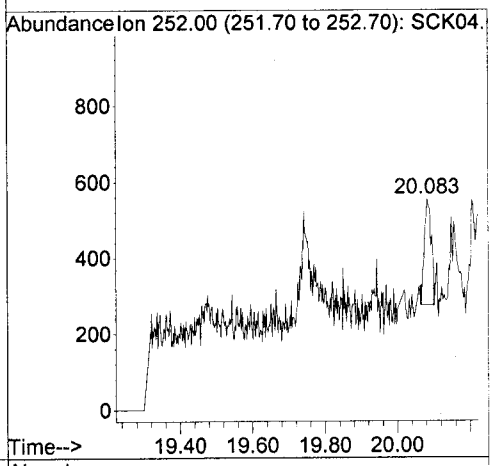
Raw



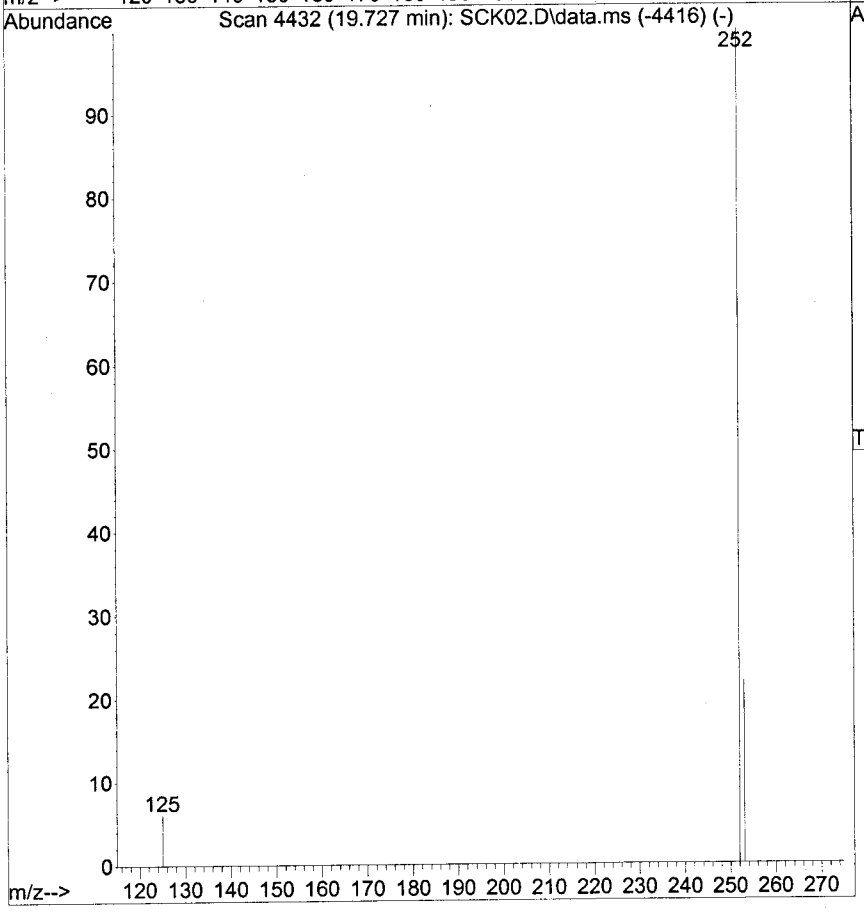
#23
Benzo(b)fluoranthene
Concen: 0.0401 ug/mL
RT: 20.083 min Scan# 4600
Delta R.T. 0.356 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

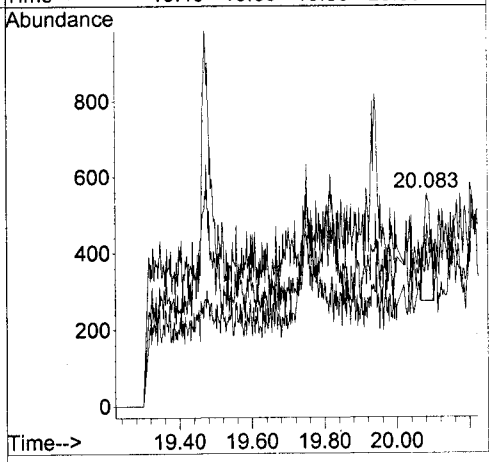
Tgt Ion:252 Resp: 379

Ion	Ratio	Lower	Upper
252	100		
253	72.4	3.6	43.6#
125	85.6	0.0	31.2#



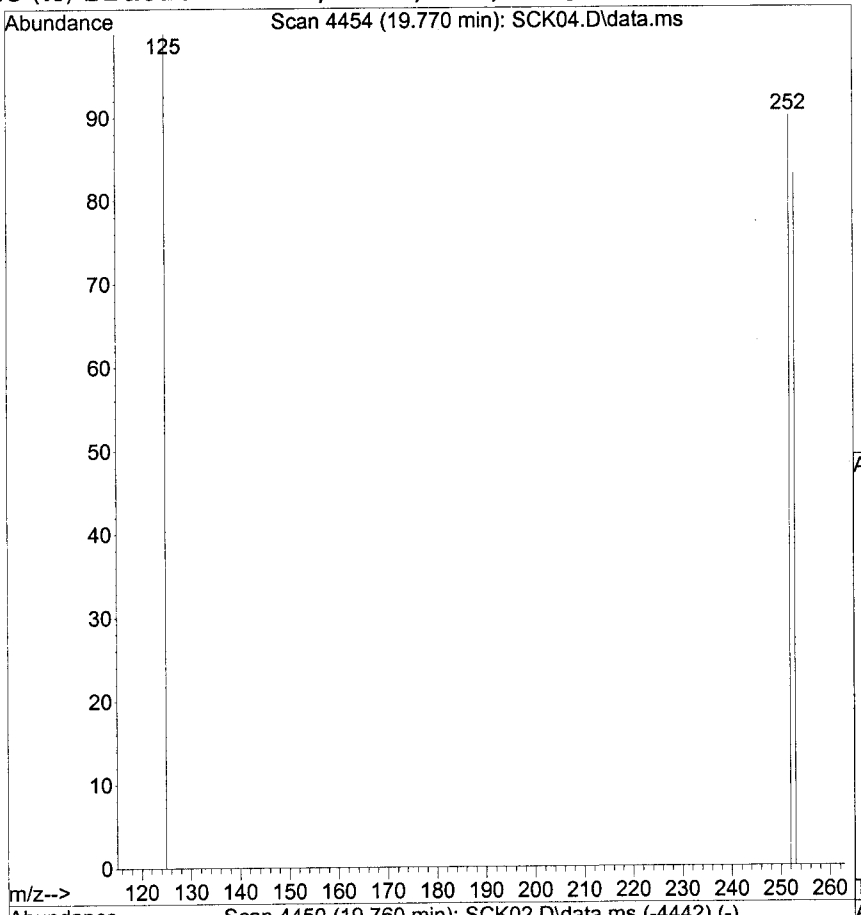
Ref





[Benzo(k)fluoranthene; <RL; MI; u]

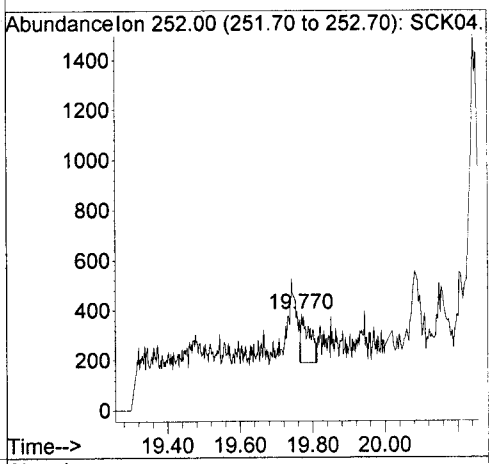
Raw



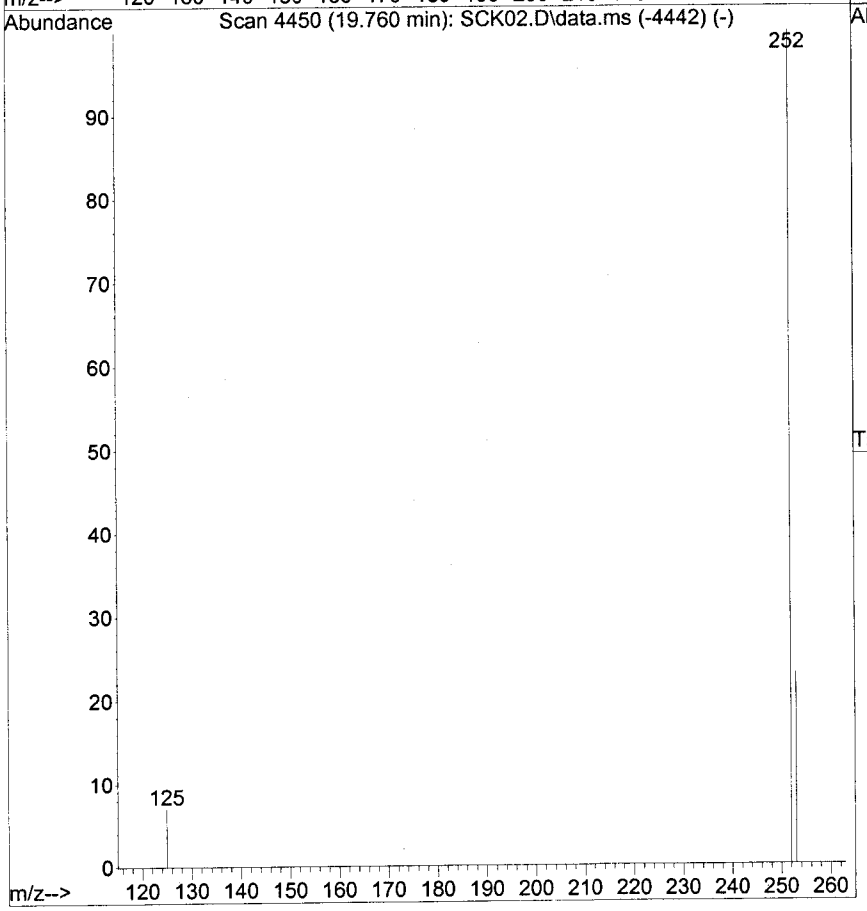
#24
Benzo(k)fluoranthene
Concen: 0.0038 ug/mL m
RT: 19.770 min Scan# 4454
Delta R.T. 0.009 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

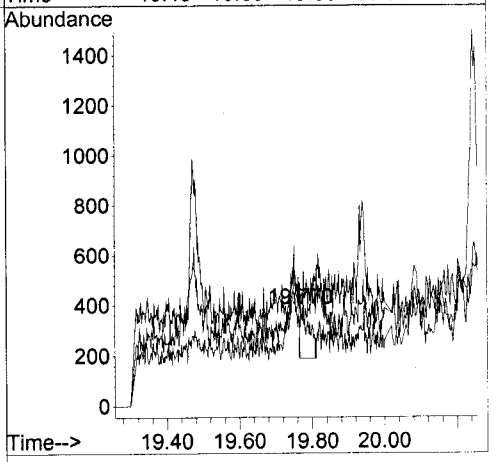
Tgt Ion:252 Resp: 334

Ion	Ratio	Lower	Upper
252	100		
253	91.7	2.8	42.8#
125	110.9	0.0	31.7#



Ref

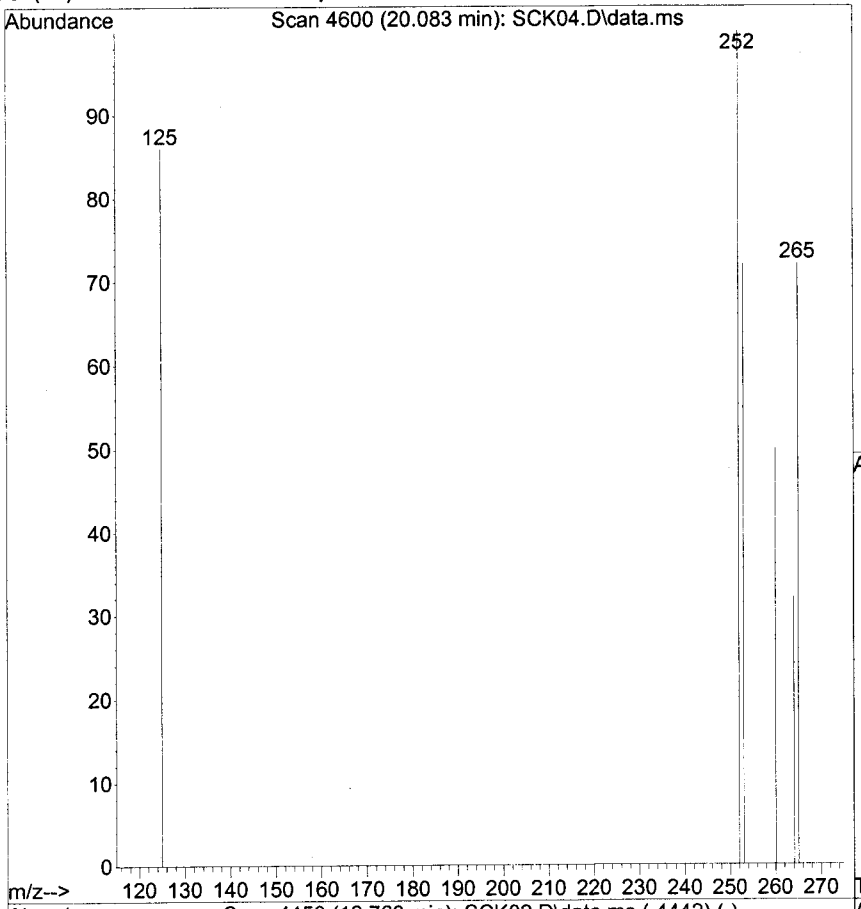




00167

[Benzo(k)fluoranthene; before version]

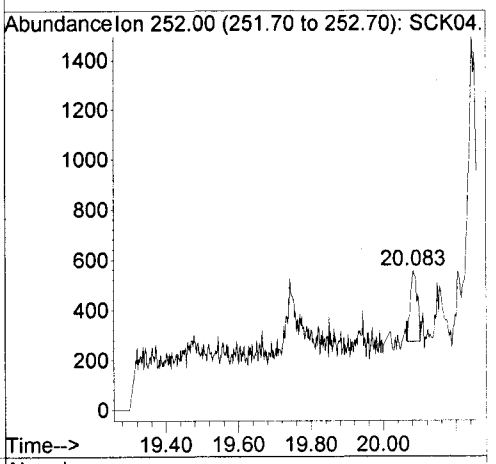
Raw



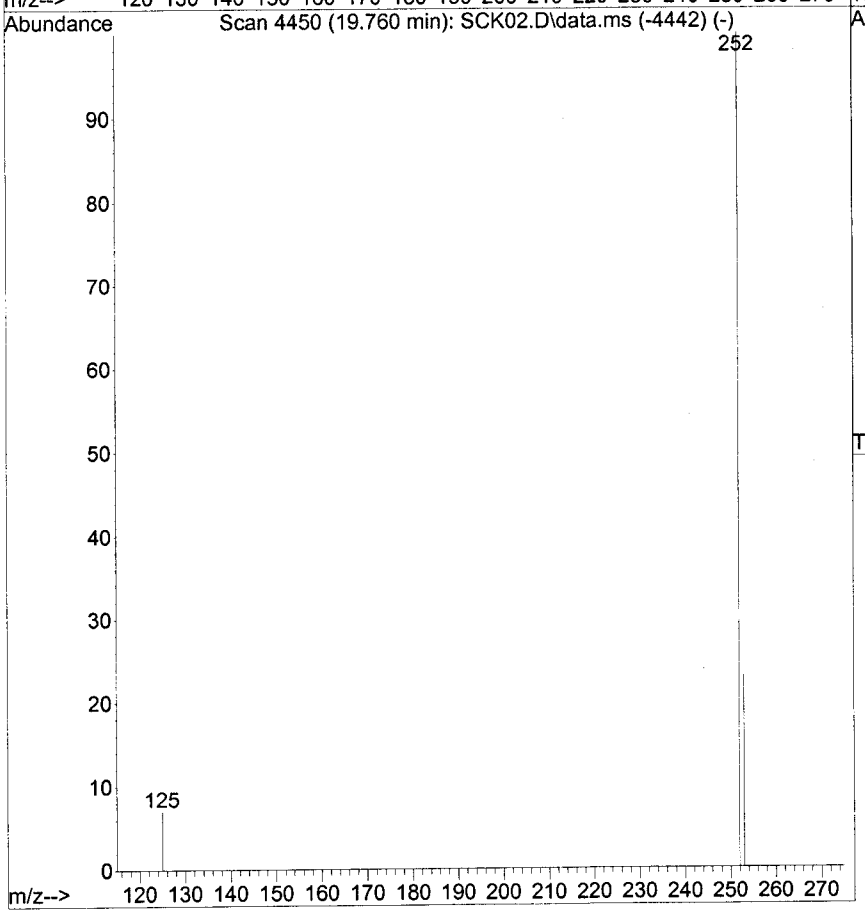
#24
Benzo(k)fluoranthene
Concen: 0.0043 ug/mL
RT: 20.083 min Scan# 4600
Delta R.T. 0.323 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

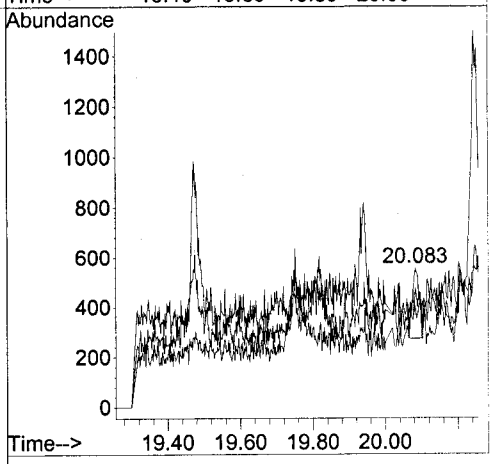
Tgt Ion:252 Resp: 379

Ion	Ratio	Lower	Upper
252	100		
253	72.4	2.8	42.8#
125	85.6	0.0	31.7#



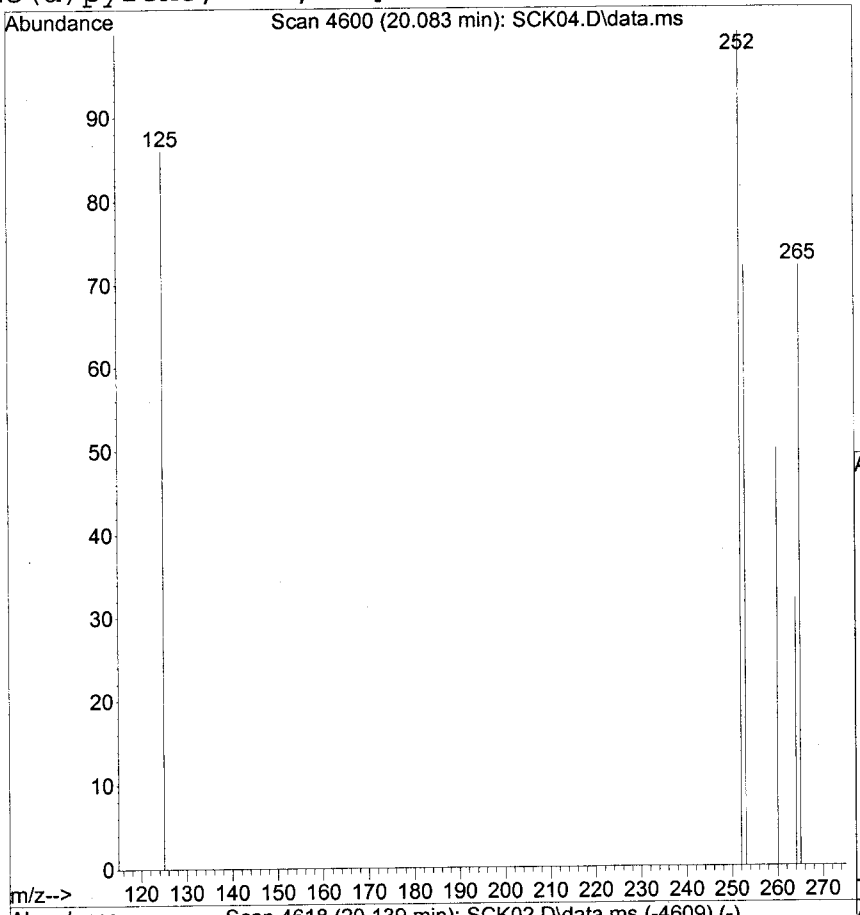
Ref





[Benzo(a)pyrene; <RL; u]

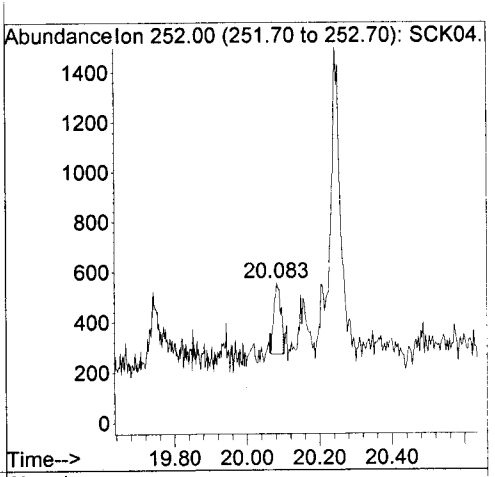
Raw



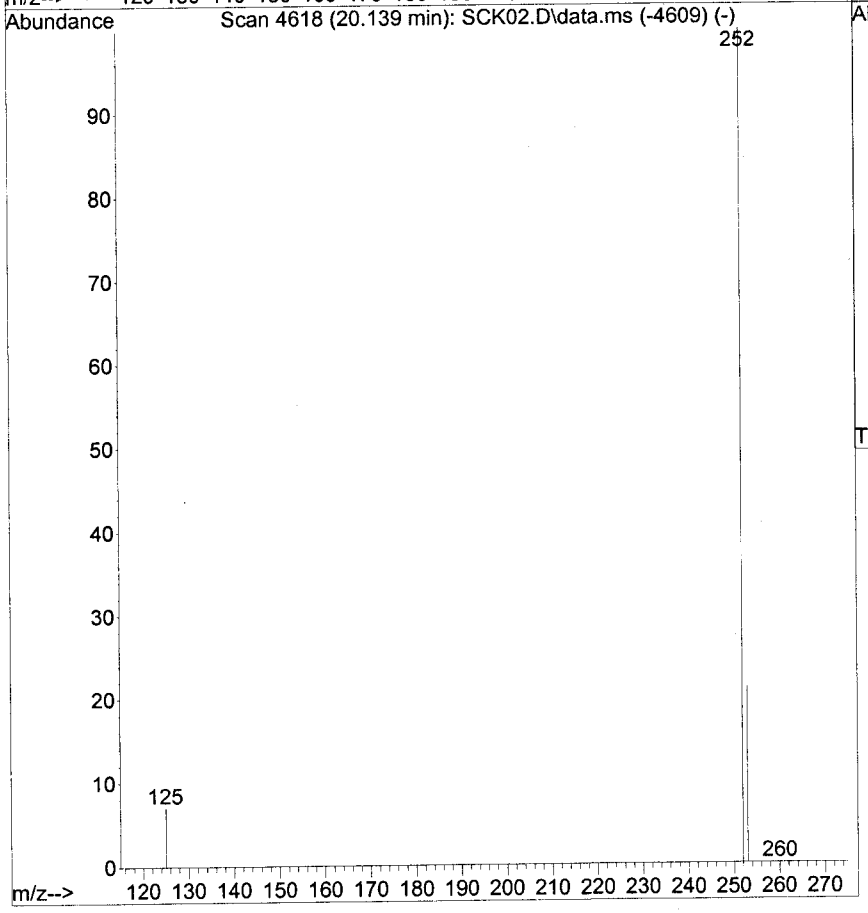
#25
Benzo(a)pyrene
Concen: 0.0049 ug/mL
RT: 20.083 min Scan# 4600
Delta R.T. -0.056 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

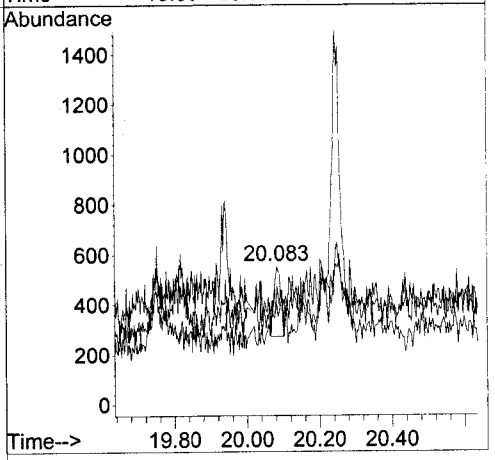
Tgt Ion:252 Resp: 379

Ion	Ratio	Lower	Upper
252	100		
253	72.4	4.8	44.8#
125	85.6	0.0	32.3#



Ref

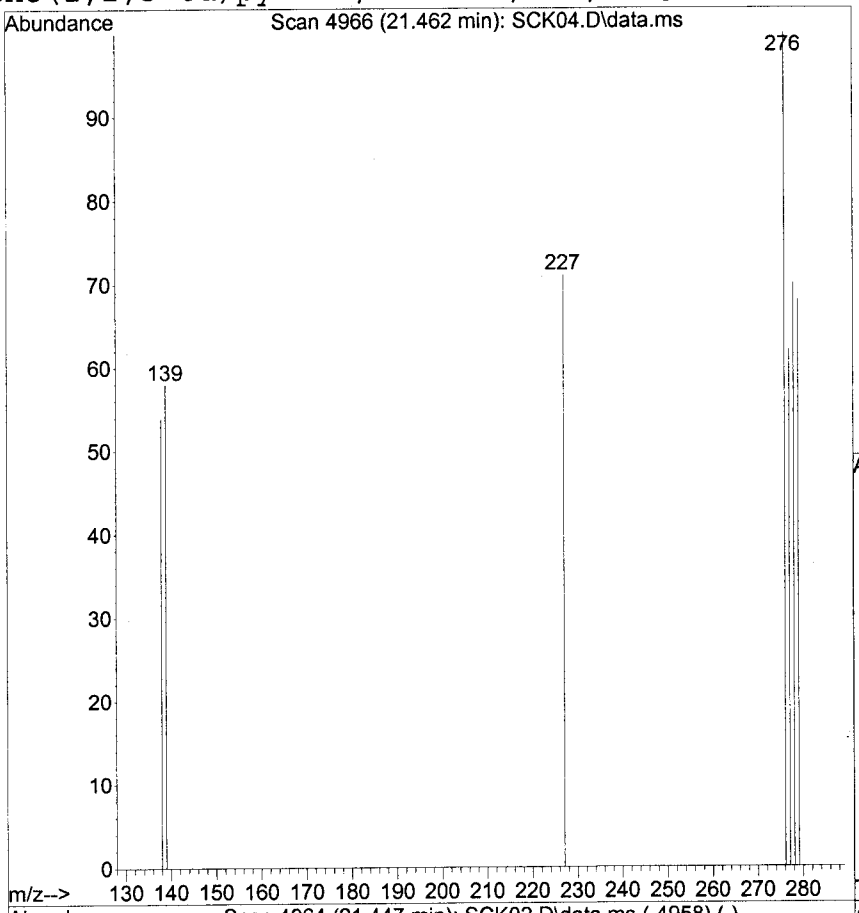




00169

[Indeno(1,2,3-cd)pyrene; 0.62 J; FP; u]

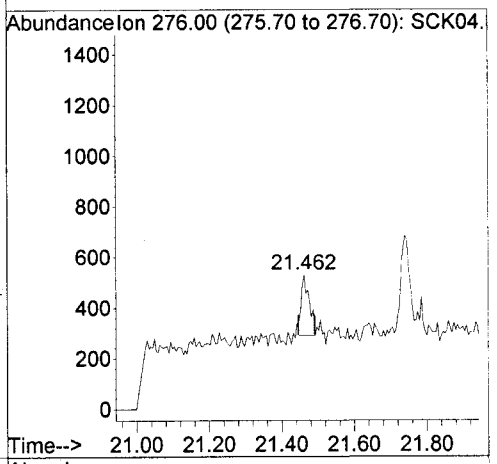
Raw



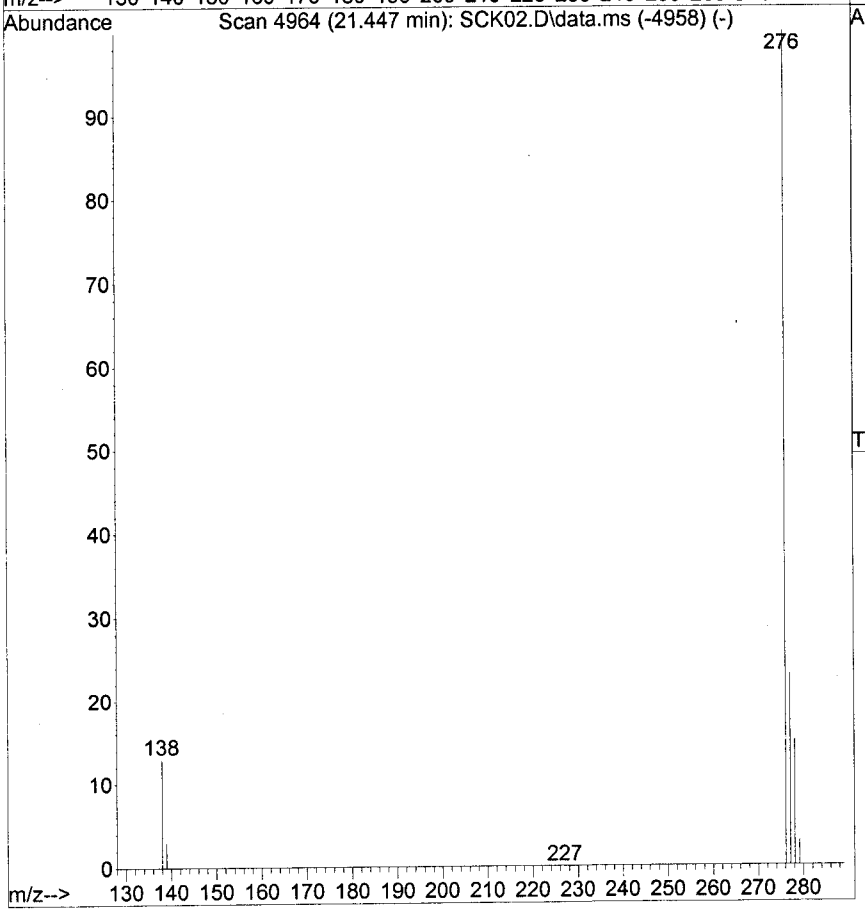
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0188 ug/mL
RT: 21.462 min Scan# 4966
Delta R.T. 0.015 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

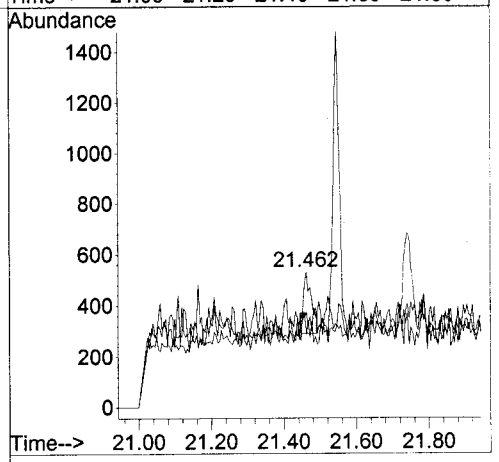
Tgt Ion:276 Resp: 353

Ion	Ratio	Lower	Upper
276	100		
138	54.0	2.0	42.0#
227	70.6	0.0	26.7#



Ref

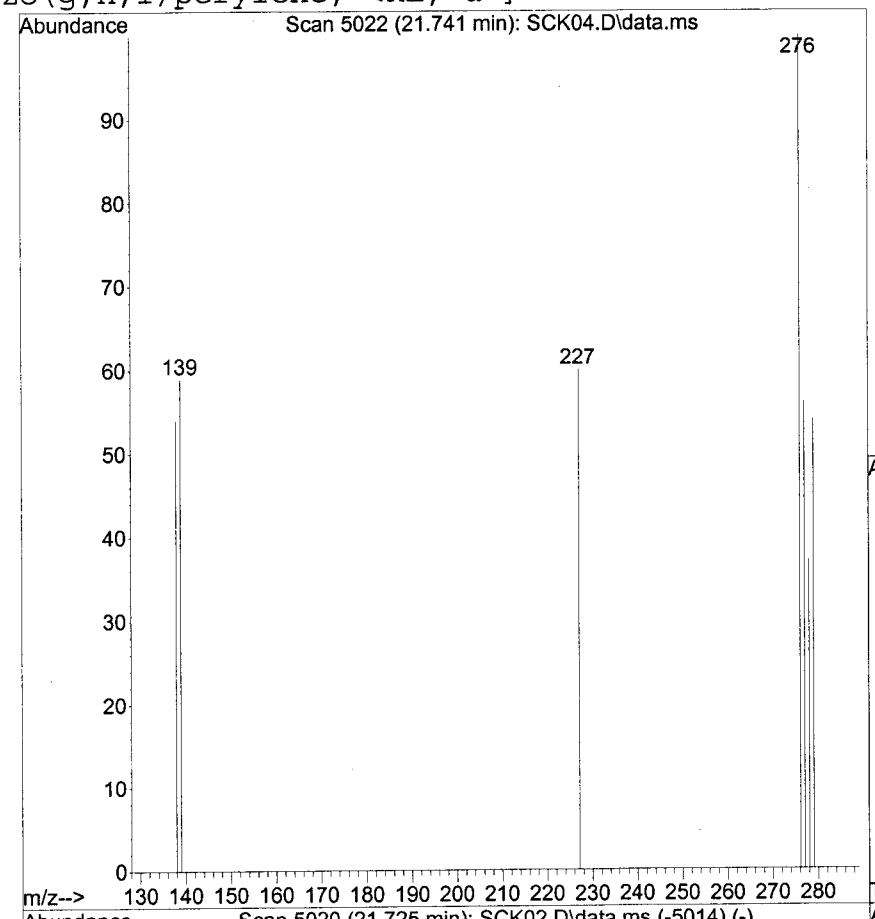




: 00170

[Benzo(g,h,i)perylene; <RL; u]

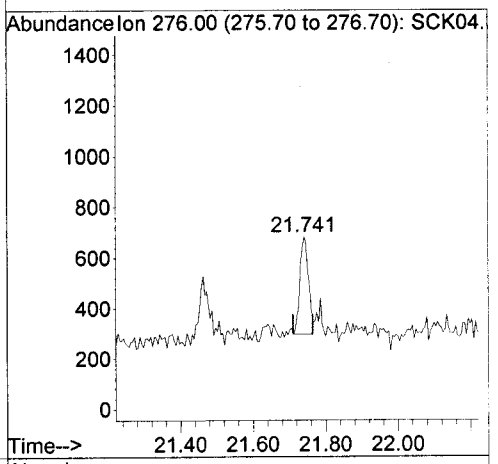
Raw



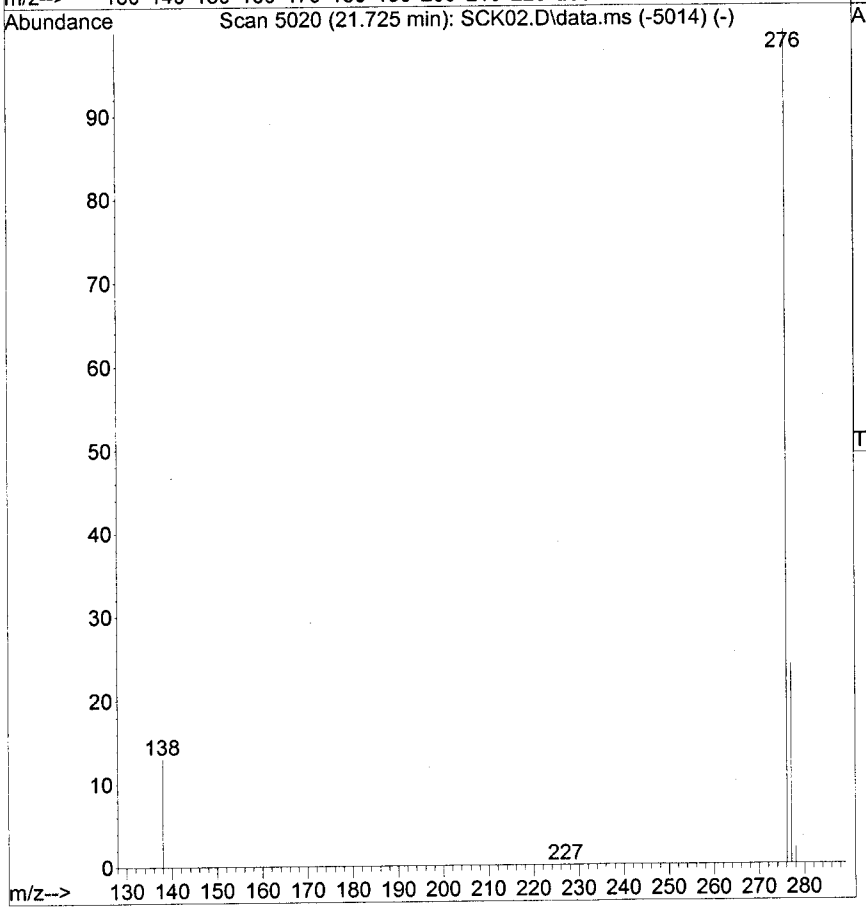
#28
Benzo(g,h,i)perylene
Concen: 0.0085 ug/mL
RT: 21.741 min Scan# 5022
Delta R.T. 0.015 min
Lab File: SCK04.D
Acq: 20 Mar 2008 11:32 am

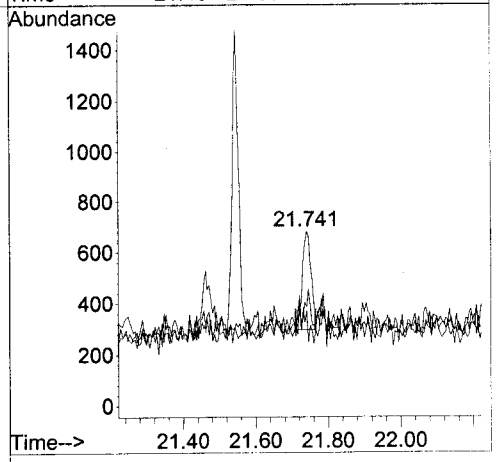
Tgt Ion:276 Resp: 648

Ion	Ratio	Lower	Upper
276	100		
138	54.1	0.8	40.8#
277	56.3	6.2	46.2#



Ref





00171

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst	: MSBNA08	Lab ID	: 202043-007	Client ID	: 1065EX312[6.0]
Seqnum	: 578115801005	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: sck05	Batch	: 136173	Time	: 20-MAR-2008 12:05
Cal	: 578083102001	Caldate	: 26-FEB-2008		
IDF	: 1.0	Raw Units	: ug/mL	Units	: ug/Kg

30.20 g --> 1.0 ml = 0.03311 ml/g PDF

Analyte	Raw	Result	RTS	RL	Blank	Flags
Naphthalene	0	ND		5.0		u
2-Methylnaphthalene	0	ND		5.0		u
Acenaphthylene	0.008700	ND		5.0		u
Acenaphthene	0	ND		5.0		u
Fluorene	0	ND		5.0		u
Phenanthrene	0	ND		5.0		u
Anthracene	0	ND		5.0		u
Fluoranthene	0.003800	ND		5.0		u
Pyrene	0.005400	ND		5.0		u
Benzo(a)anthracene	0.008000	ND		5.0		m u
Chrysene	0.006100	ND		5.0		m u
Benzo(b)fluoranthene	0	ND		5.0		u
Benzo(k)fluoranthene	0	ND		5.0		u
Benzo(a)pyrene	0	ND		5.0		u
Indeno(1,2,3-cd)pyrene	0.02040	0.68 J		5.0		?curve+ m u x
Dibenz(a,h)anthracene	0.04330	1.4 J	-0.428	5.0		?curve+ u x
Benzo(g,h,i)perylene	0	ND		5.0		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.9548	33.11	31.62	95	23-120	m u
2-Fluorobiphenyl	0.7842	33.11	25.97	78	30-115	u
Terphenyl-d14	0.8904	33.11	29.48	89	18-137	u

ISTD (CCV sck02)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE R	Drift
Naphthalene-d8	64577	55484	-14.08	10.60	10.59	-0.01
Acenaphthene-d10	45669	36028	-21.11	12.82	12.82	0.00
Phenanthrene-d10	83109	67816	-18.40	14.72	14.72	0.00
Chrysene-d12	92399	62605	-32.24	18.27	18.28	0.01
Perylene-d12	87612	64285	-26.63	20.21	20.21	0.00

LLH 03/20/08 [Indeno(1,2,3-cd)pyrene]: This is just noise.

LLH 03/20/08 [Dibenz(a,h)anthracene]: This is just noise.

LLH: 03/20/08 JAJ: 03/20/08 EAH: 03/21/08

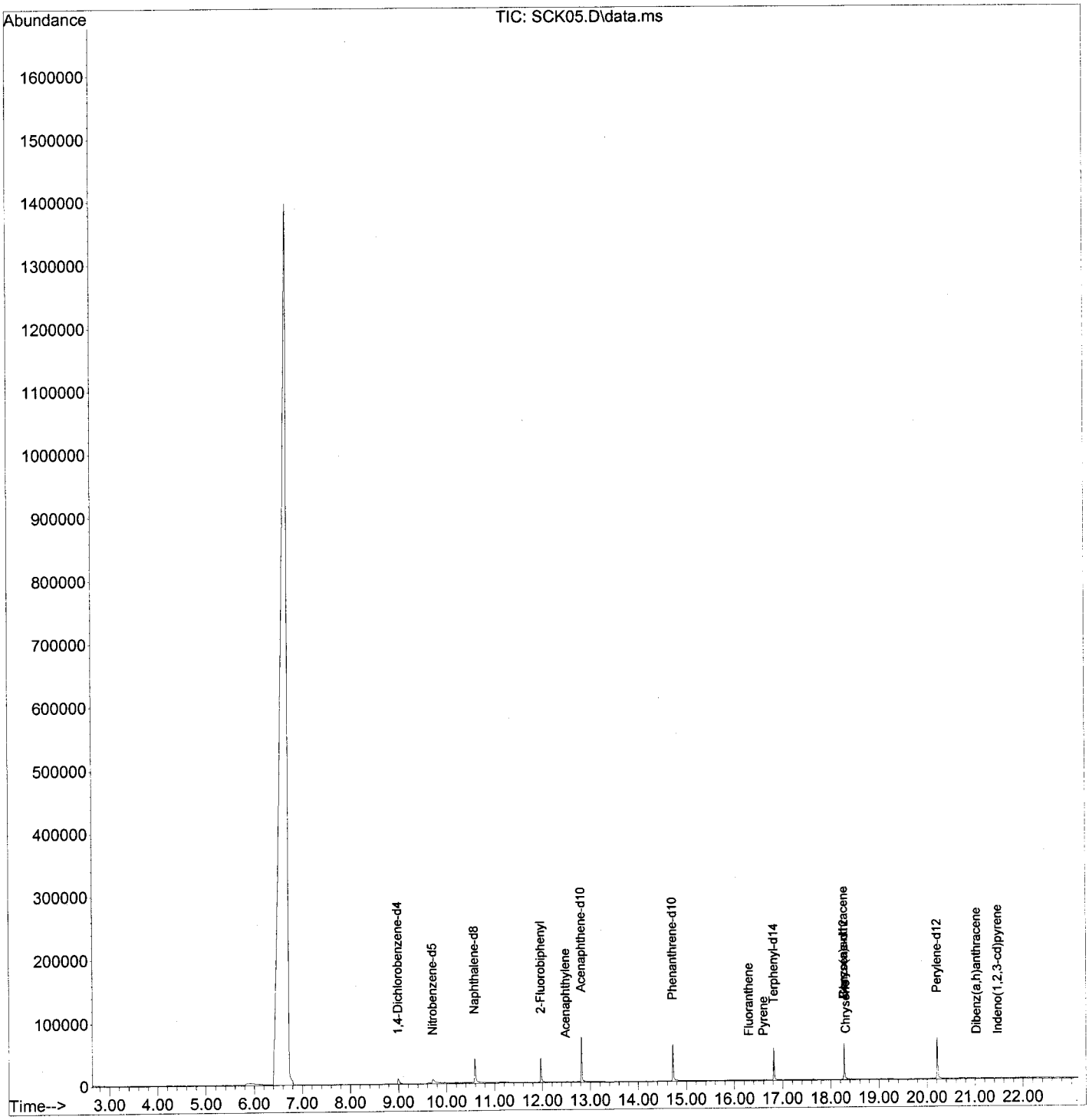
+=high bias ?curve=check curve m=manual integration u=use x=false positive

578115801005

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK05.D
Acq On : 20 Mar 2008 12:05 pm
Operator :
Sample : S,202043-007
Misc : 136173,1,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 12:40:49 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration



00173

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK05.D
Acq On : 20 Mar 2008 12:05 pm
Operator :
Sample : S,202043-007
Misc : 136173,1,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 12:40:49 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration

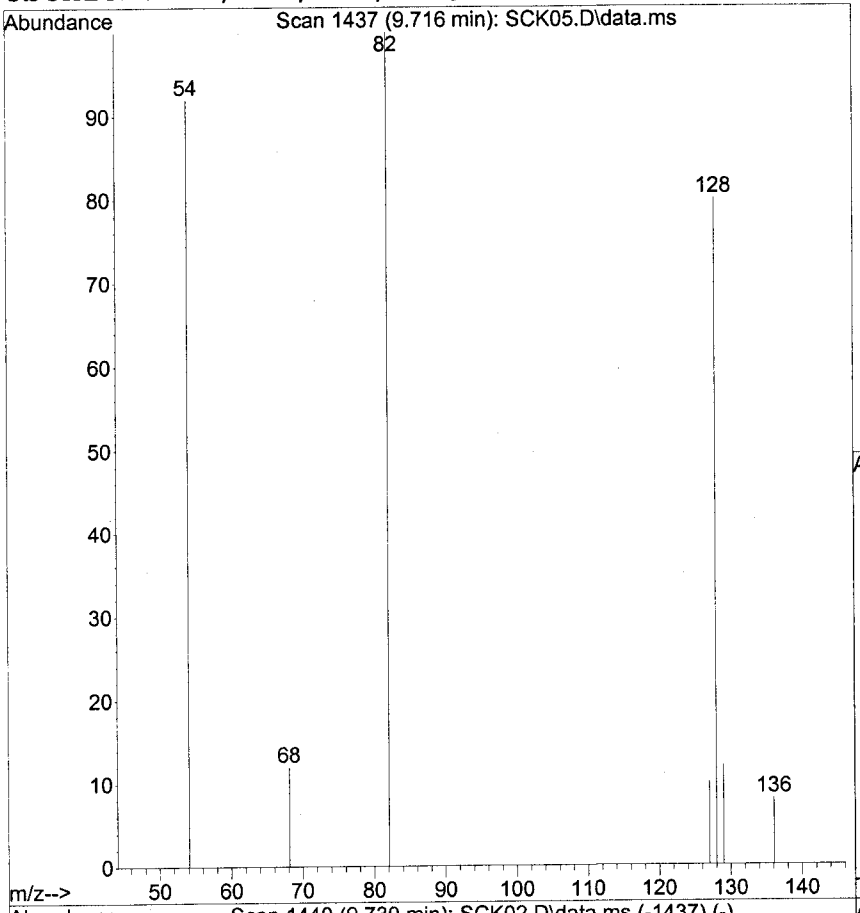
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	8.994	152	14196	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.588	136	55484	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.816	164	36028	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.718	188	67816	1.0000	ug/mL	0.00
17) Chrysene-d12	18.277	240	62605	1.0000	ug/mL	0.00
22) Perylene-d12	20.211	264	64285	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.		
4) Nitrobenzene-d5	9.716	82	7494m	0.9548	ug/mL	
5) Naphthalene	0.000	128	0	N.D.		
6) 2-Methylnaphthalene	0.000	142	0	N.D.		
7) 1-Methylnaphthalene	0.000	142	0	N.D.		
9) 2-Fluorobiphenyl	11.968	172	37119	0.7842	ug/mL	94
10) Acenaphthylene	12.487	152	529	0.0087	ug/mL #	1
11) Acenaphthene	0.000	154	0	N.D.		
12) Fluorene	0.000	166	0	N.D.		
14) Phenanthrene	0.000	178	0	N.D.		
15) Anthracene	0.000	178	0	N.D.		
16) Fluoranthene	16.301	202	330	0.0038	ug/mL #	7
18) Pyrene	16.603	202	434	0.0054	ug/mL #	49
19) Terphenyl-d14	16.819	244	53552	0.8904	ug/mL	94
20) Benzo(a)anthracene	18.274	228	548m	0.0080	ug/mL	
21) Chrysene	18.313	228	471m	0.0061	ug/mL	
23) Benzo(b)fluoranthene	0.000	252	0	N.D.		
24) Benzo(k)fluoranthene	0.000	252	0	N.D.		
25) Benzo(a)pyrene	0.000	252	0	N.D.		
26) Indeno(1,2,3-cd)pyrene	21.472	276	441m	0.0204	ug/mL	
27) Dibenz(a,h)anthracene	21.034	278	402	0.0433	ug/mL #	1
28) Benzo(g,h,i)perylene	0.000	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00174

[Nitrobenzene-d5; 32; MI; u]

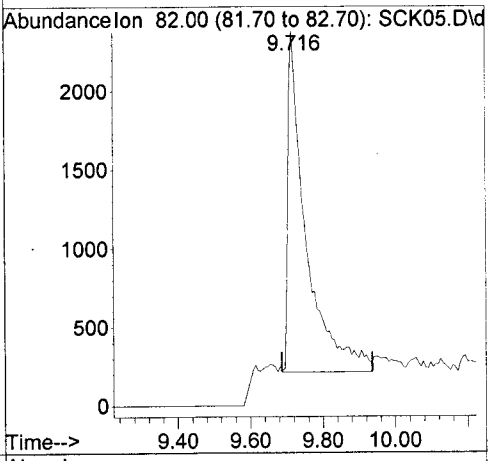
Raw



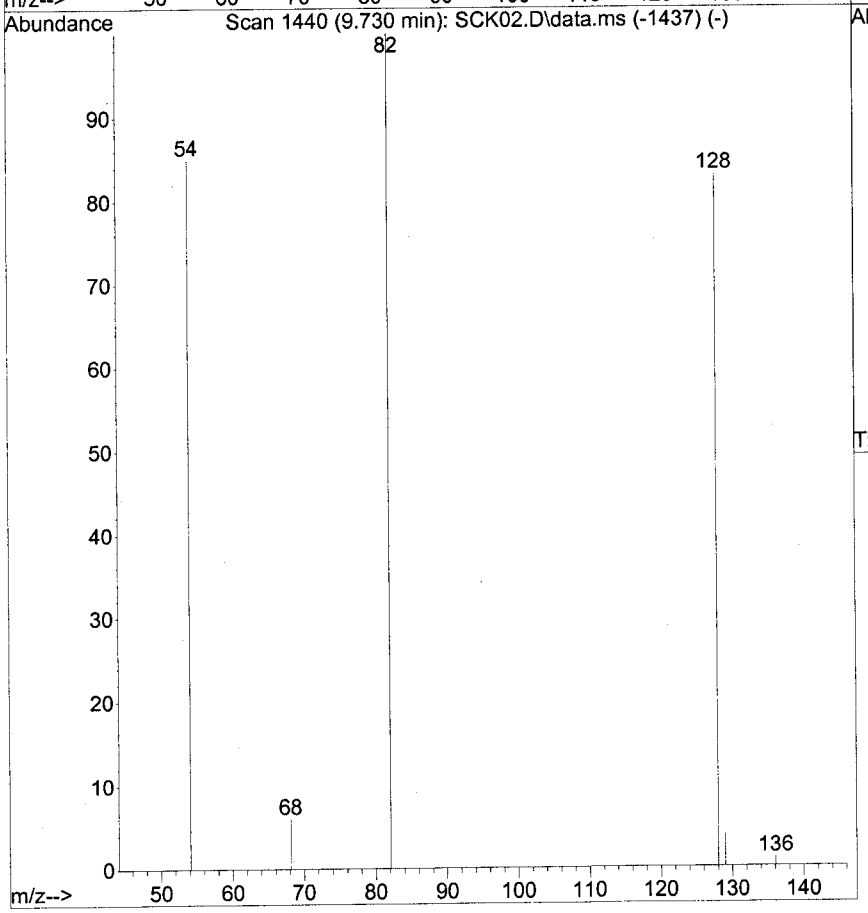
#4
Nitrobenzene-d5
Concen: 0.9548 ug/mL m
RT: 9.716 min Scan# 1437
Delta R.T. -0.014 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

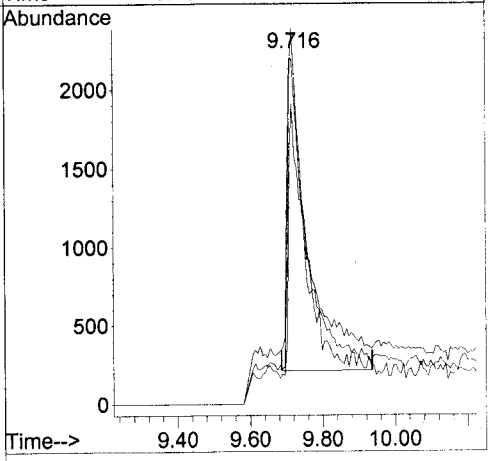
Tgt Ion: 82 Resp: 7494

Ion	Ratio	Lower	Upper
82	100		
128	80.0	52.7	92.7
54	92.1	73.3	113.3



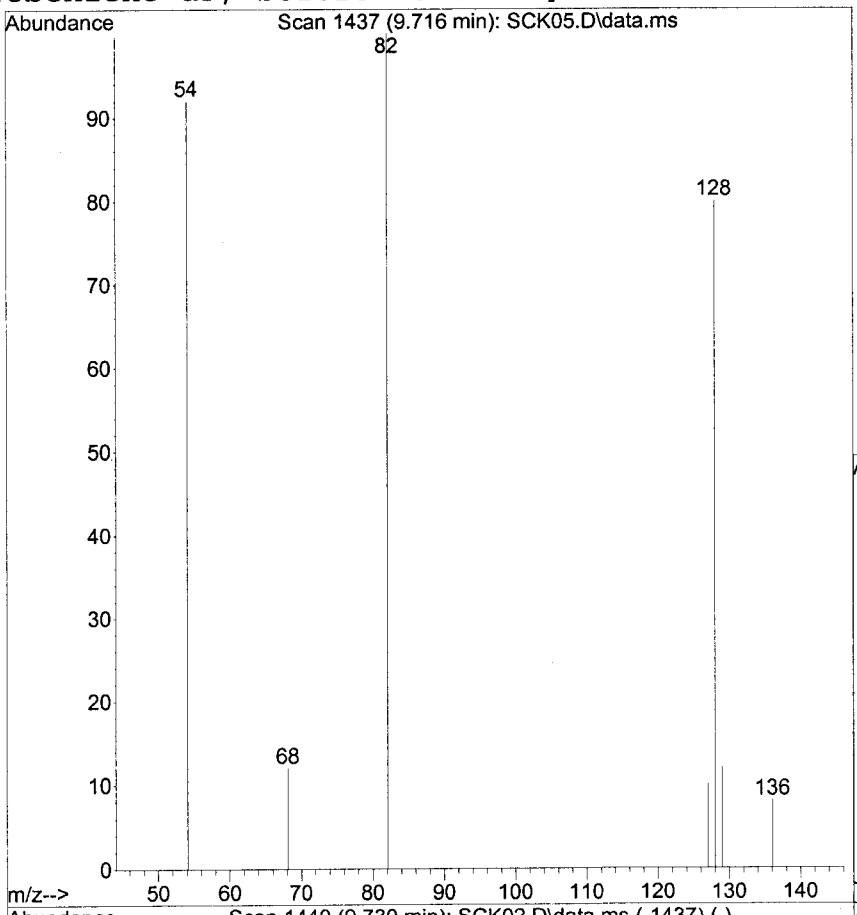
Ref





[Nitrobenzene-d5; before version]

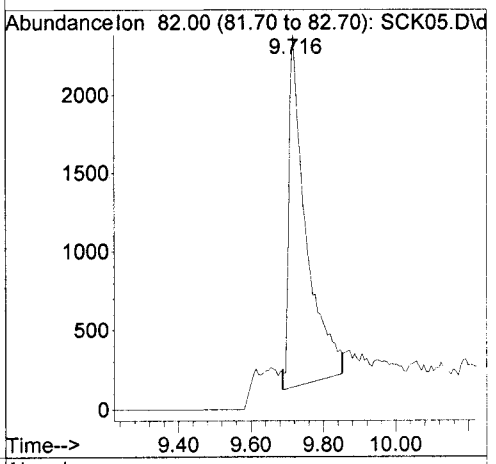
Raw



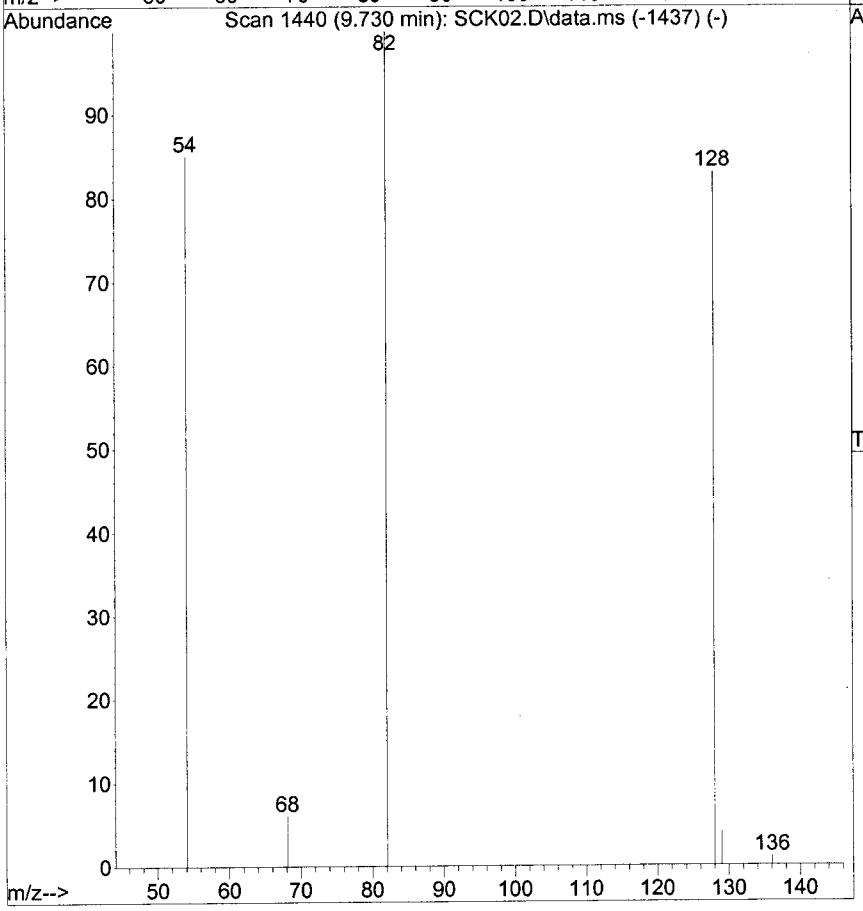
#4
Nitrobenzene-d5
Concen: 0.9344 ug/mL
RT: 9.716 min Scan# 1437
Delta R.T. -0.014 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

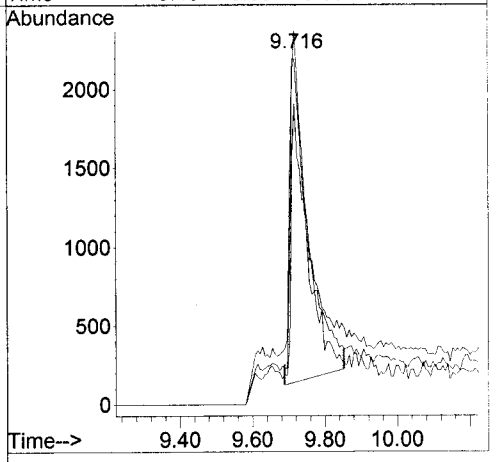
Tgt Ion: 82 Resp: 7287

Ion	Ratio	Lower	Upper
82	100		
128	80.0	52.7	92.7
54	92.1	73.3	113.3



Ref

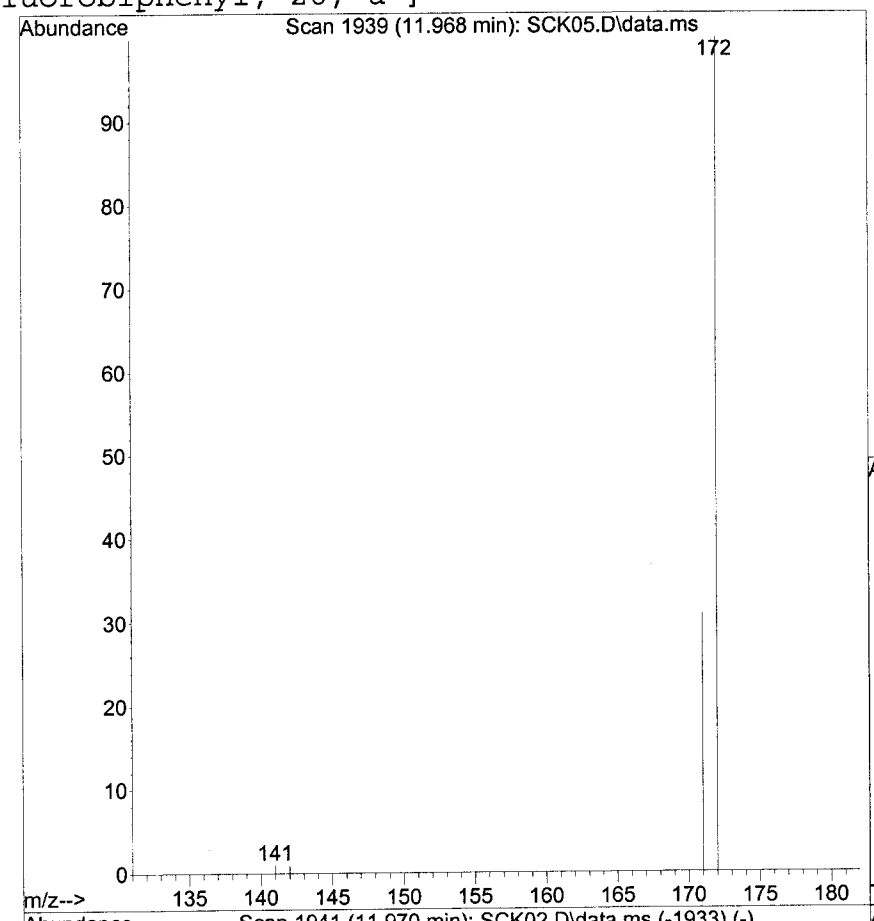




: 00176

[2-Fluorobiphenyl; 26; u]

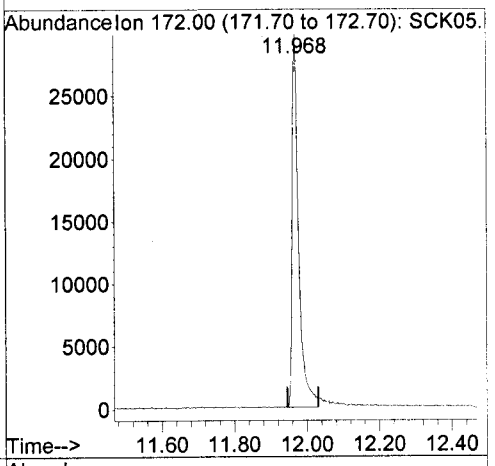
Raw



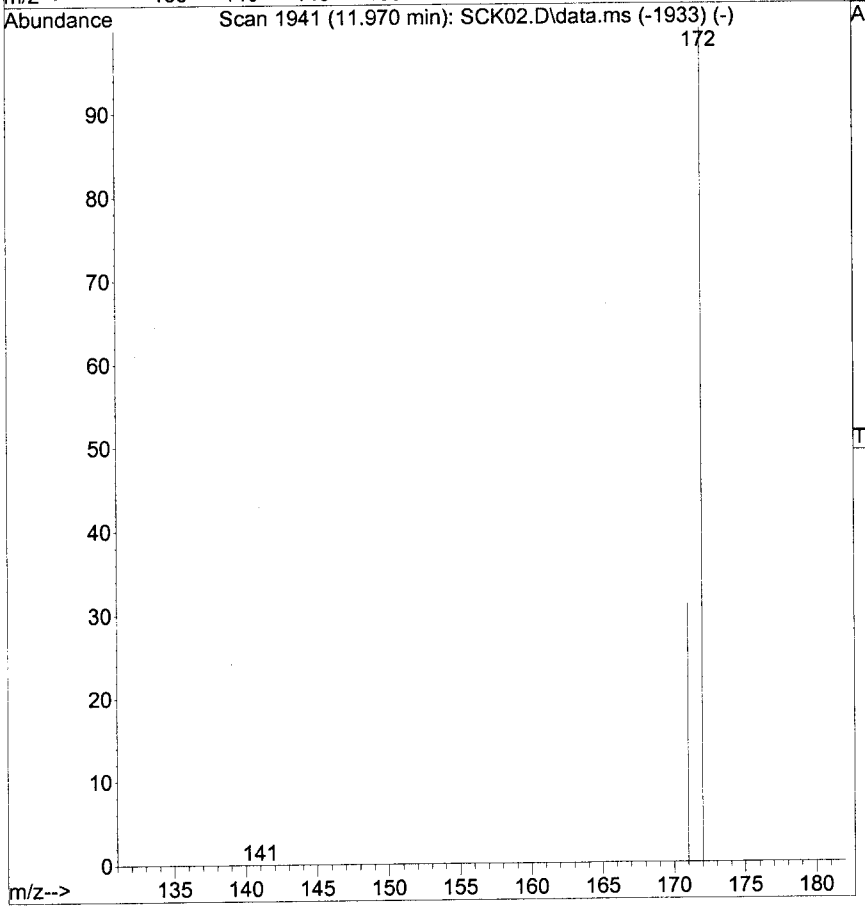
#9
2-Fluorobiphenyl
Concen: 0.7842 ug/mL
RT: 11.968 min Scan# 1939
Delta R.T. -0.001 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

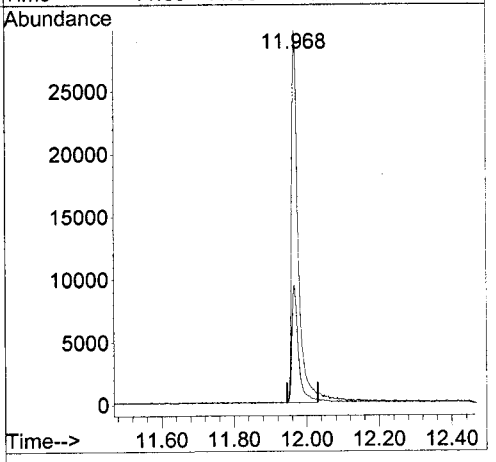
Tgt Ion:172 Resp: 37119

Ion	Ratio	Lower	Upper
172	100		
171	30.9	14.3	54.3



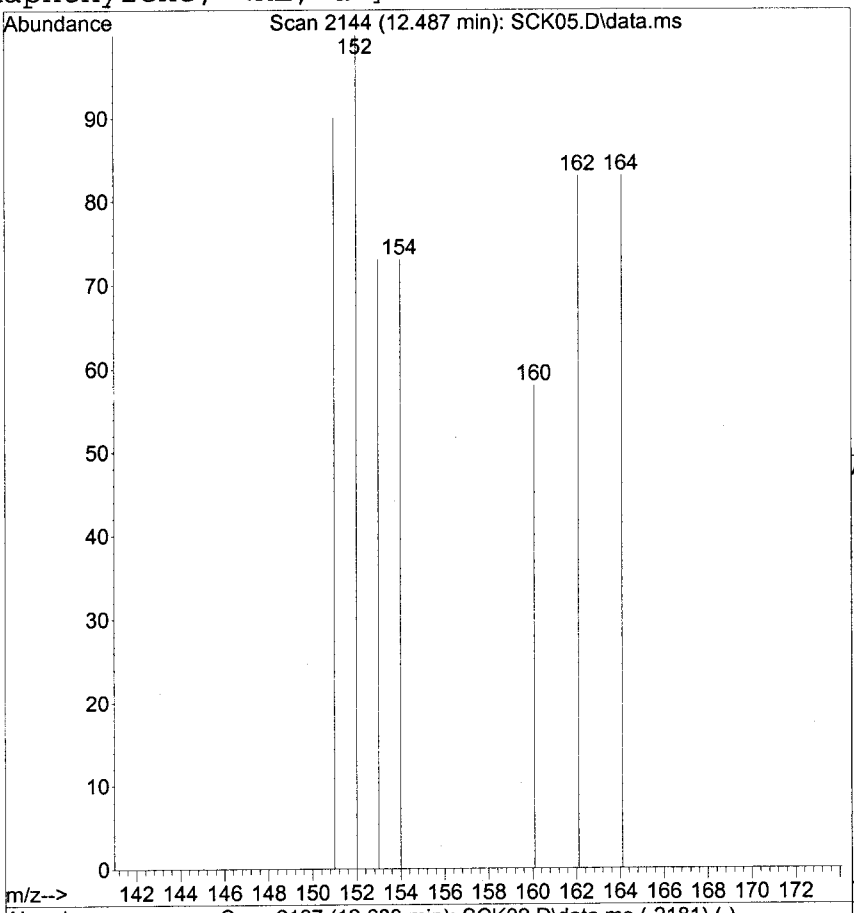
Ref





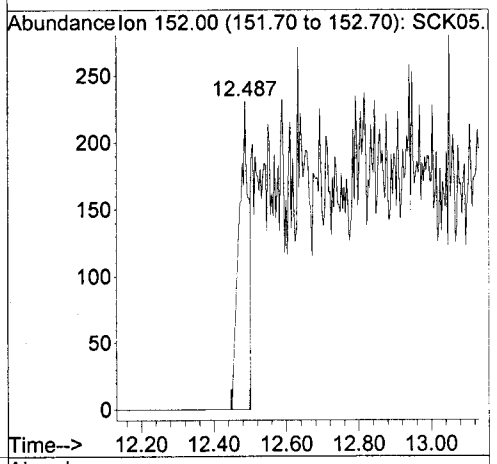
[Acenaphthylene; <RL; u]

Raw

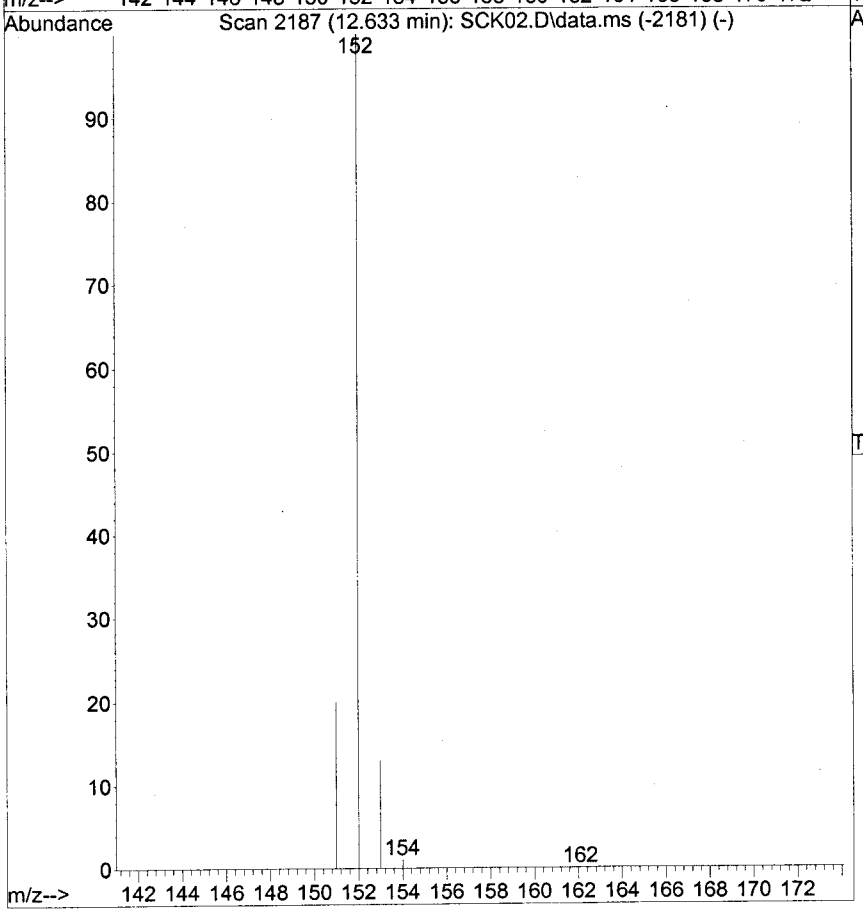


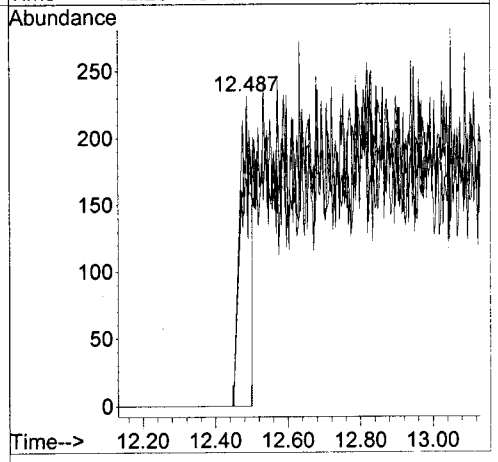
#10
Acenaphthylene
Concen: 0.0087 ug/mL
RT: 12.487 min Scan# 2144
Delta R.T. -0.146 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

Tgt Ion:152	Resp:	529	
Ion	Ratio	Lower	Upper
152	100		
151	90.5	2.3	42.3#
153	73.2	0.0	34.0#



Ref

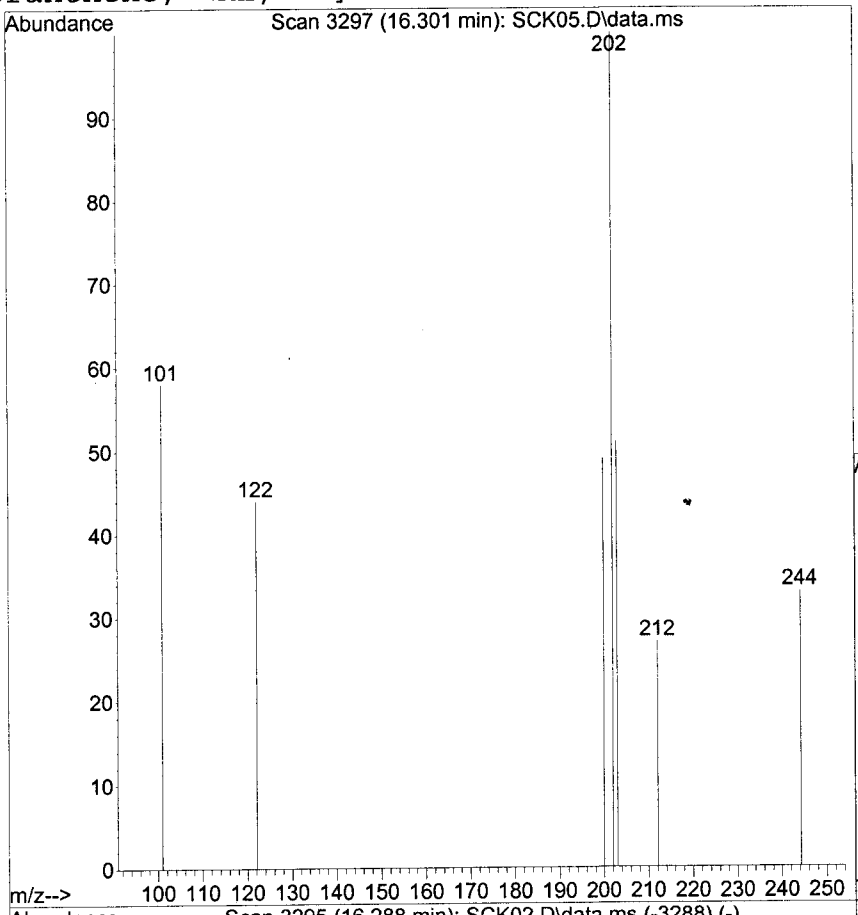




: 00178

[Fluoranthene; <RL; u]

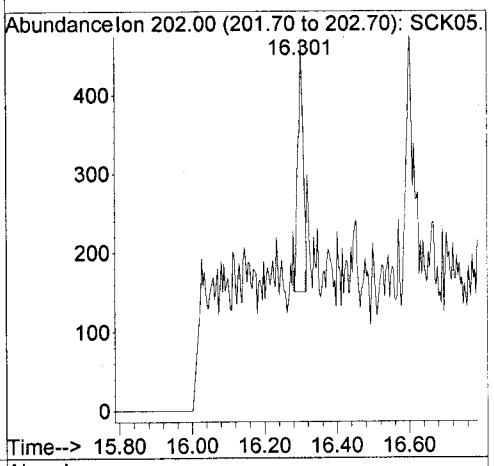
Raw



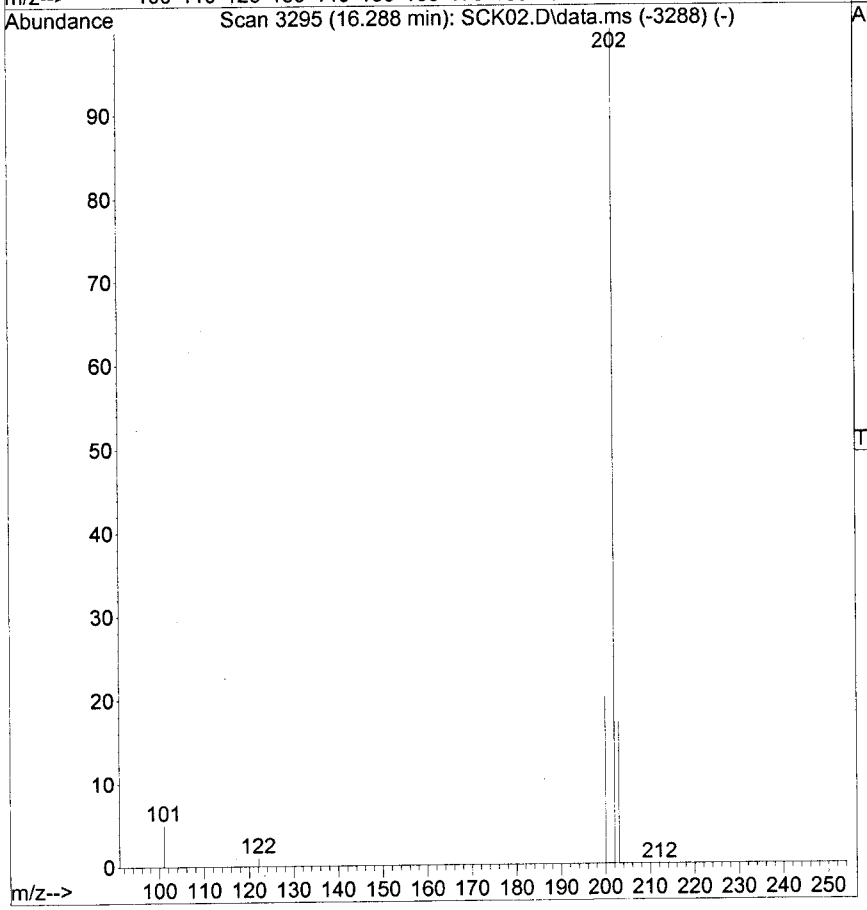
#16
Fluoranthene
Concen: 0.0038 ug/mL
RT: 16.301 min Scan# 3297
Delta R.T. 0.013 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

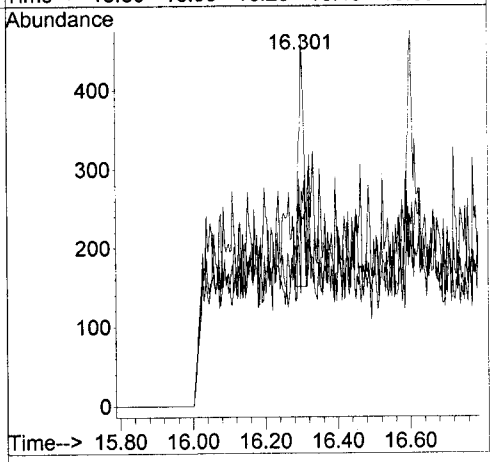
Tgt Ion:202 Resp: 330

Ion	Ratio	Lower	Upper
202	100		
101	57.7	0.0	30.0#
203	51.0	0.0	38.2#



Ref

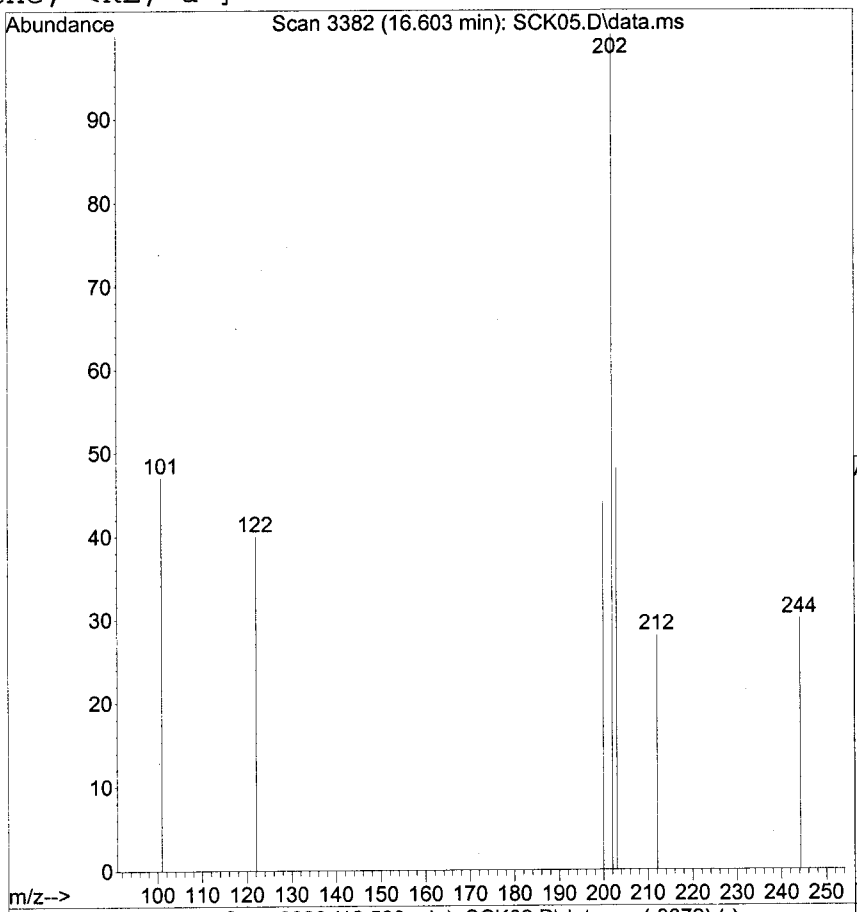




00179

[Pyrene; <RL; u]

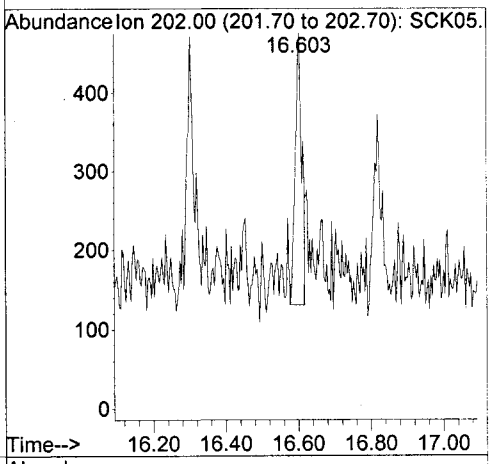
Raw



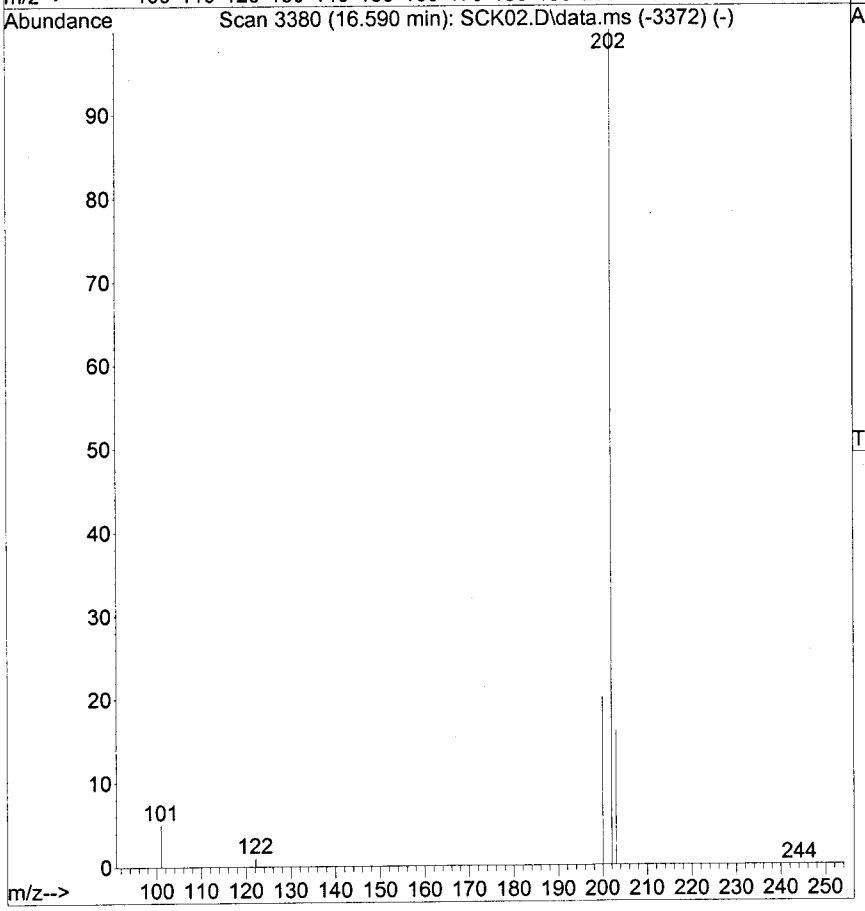
#18
Pyrene
Concen: 0.0054 ug/mL
RT: 16.603 min Scan# 3382
Delta R.T. 0.013 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

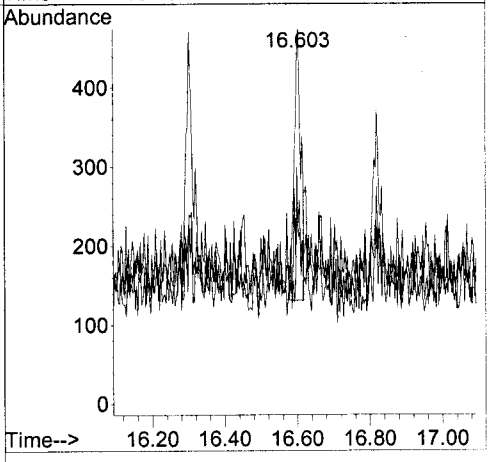
Tgt Ion:202 Resp: 434

Ion	Ratio	Lower	Upper
202	100		
200	44.4	4.2	44.2#
203	48.2	0.0	39.3#



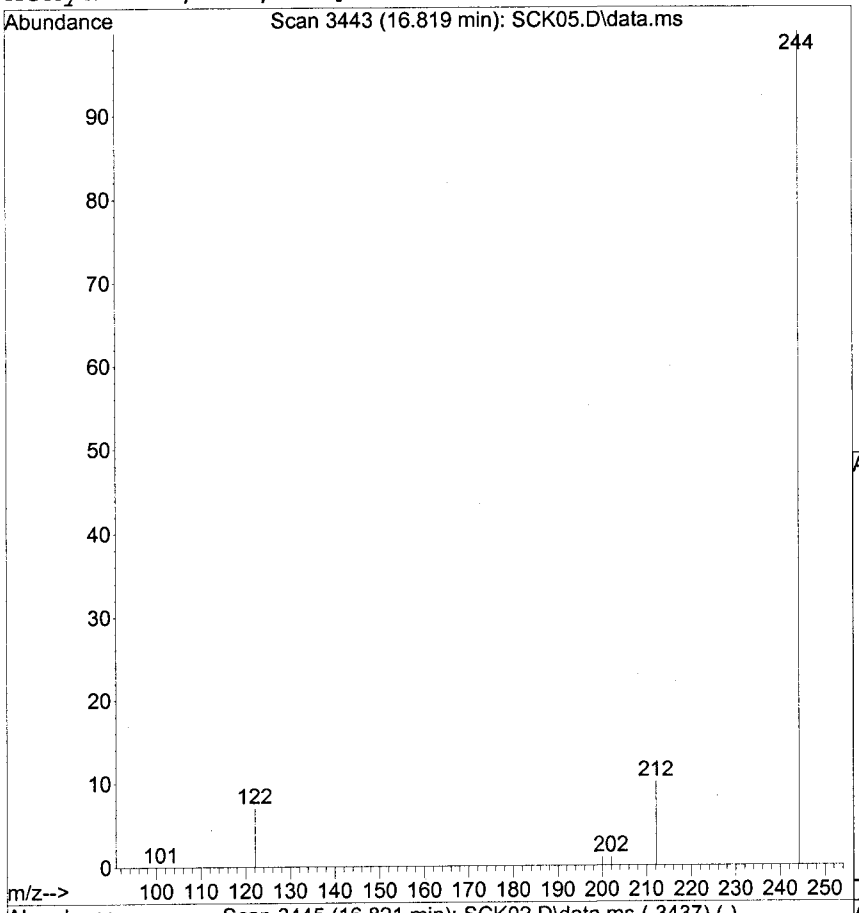
Ref





[Terphenyl-d14; 29; u]

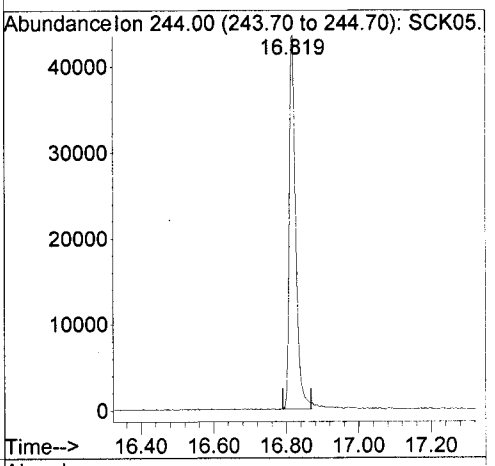
Raw



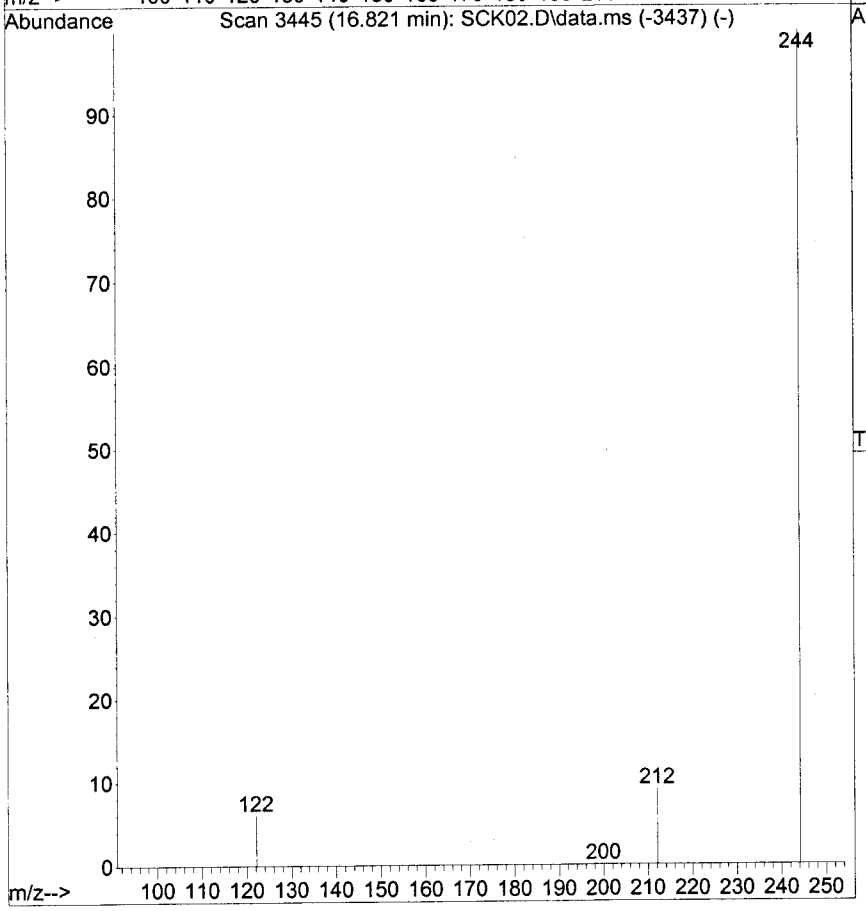
#19
Terphenyl-d14
Concen: 0.8904 ug/mL
RT: 16.819 min Scan# 3443
Delta R.T. -0.001 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

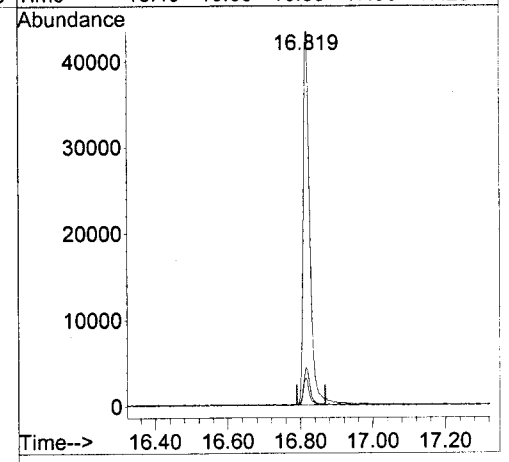
Tgt Ion:244 Resp: 53552

Ion	Ratio	Lower	Upper
244	100		
122	6.8	0.0	30.0
212	9.9	0.0	29.1



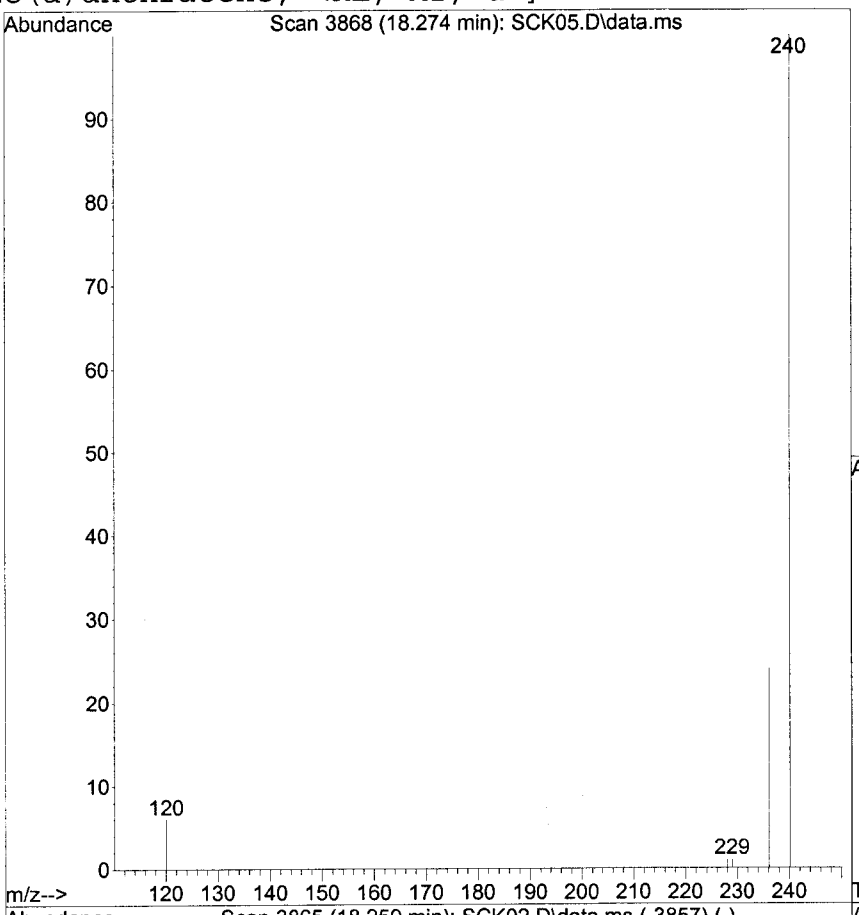
Ref





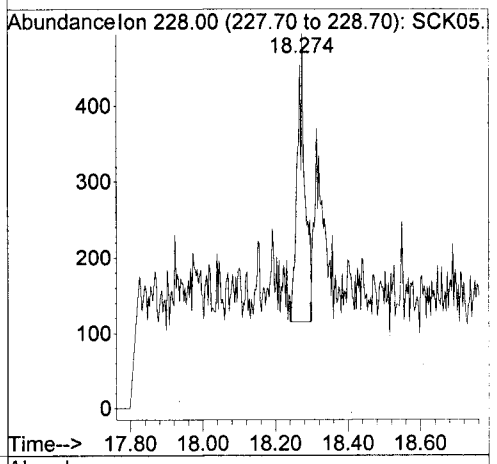
[Benzo(a)anthracene; <RL; MI; u]

Raw

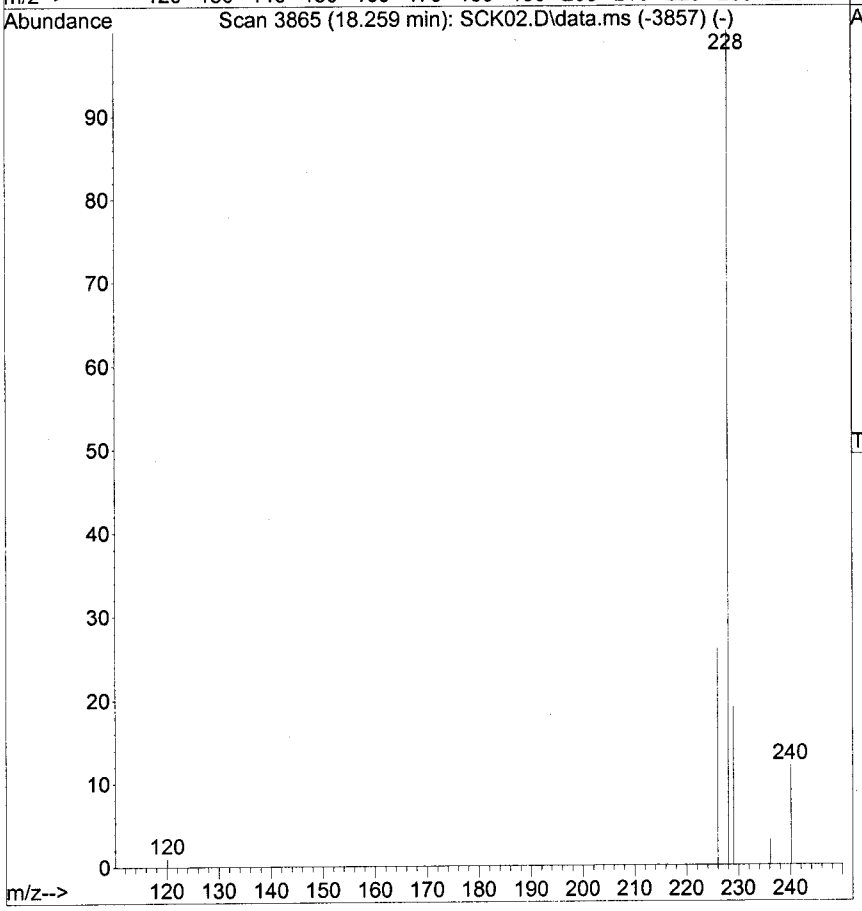


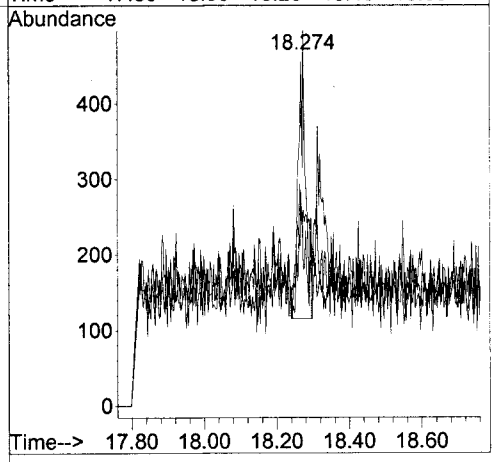
#20
Benzo(a)anthracene
Concen: 0.0080 ug/mL m
RT: 18.274 min Scan# 3868
Delta R.T. 0.015 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

Tgt Ion:228	Resp:	548
Ion	Ratio	Lower	Upper
228	100		
229	52.2	1.1	41.1#
226	36.3	8.4	48.4



Ref

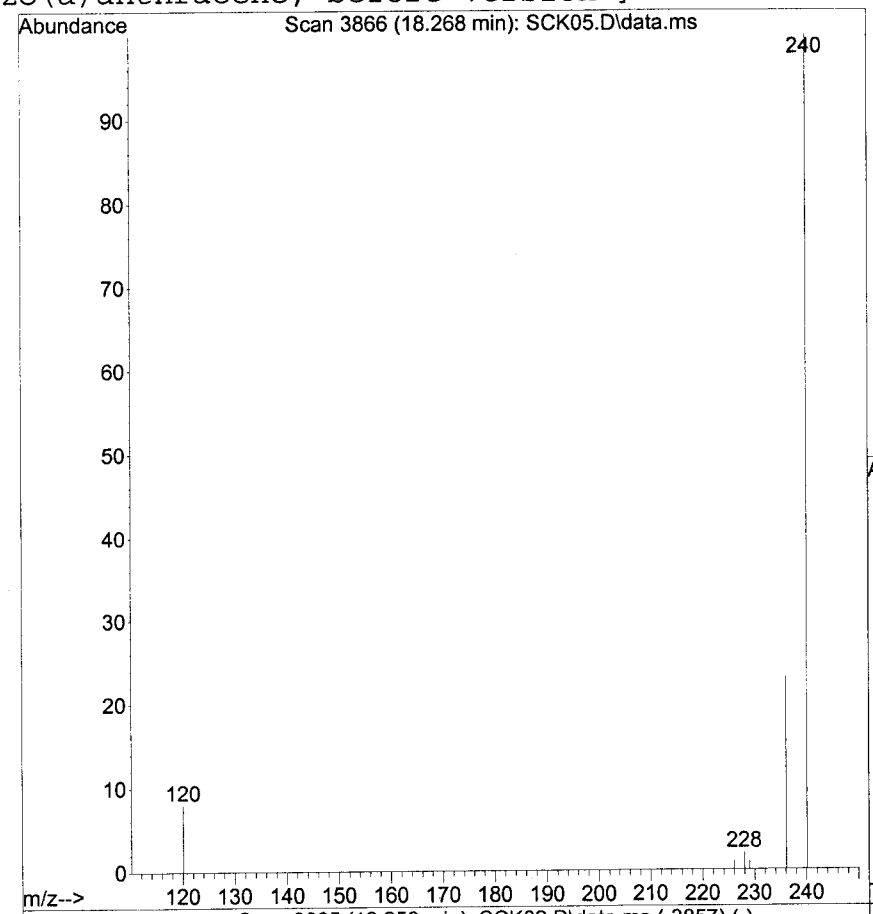




00182

[Benzo(a)anthracene; before version]

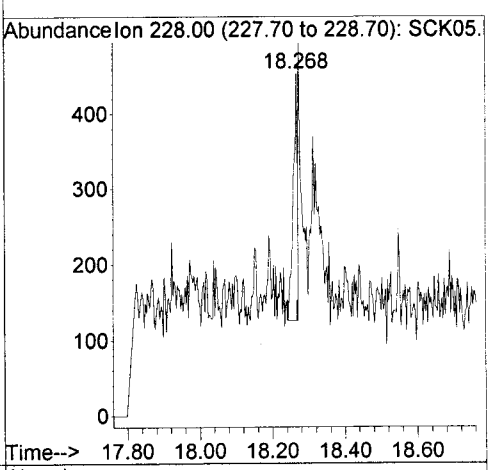
Raw



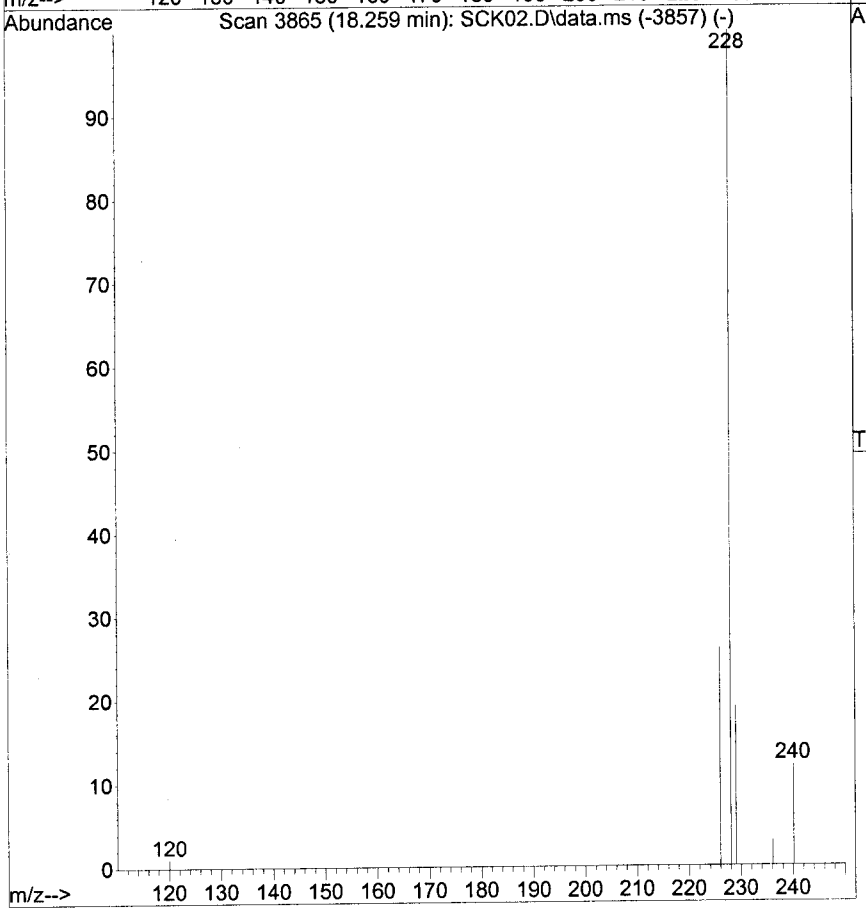
#20
Benzo(a)anthracene
Concen: 0.0038 ug/mL
RT: 18.268 min Scan# 3866
Delta R.T. 0.009 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

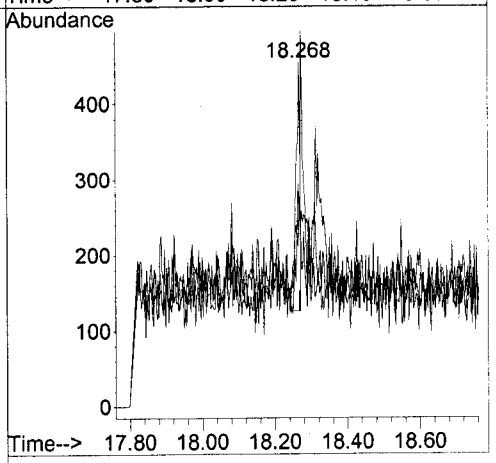
Tgt Ion:228 Resp: 258

Ion	Ratio	Lower	Upper
228	100		
229	62.3	1.1	41.1#
226	54.0	8.4	48.4#



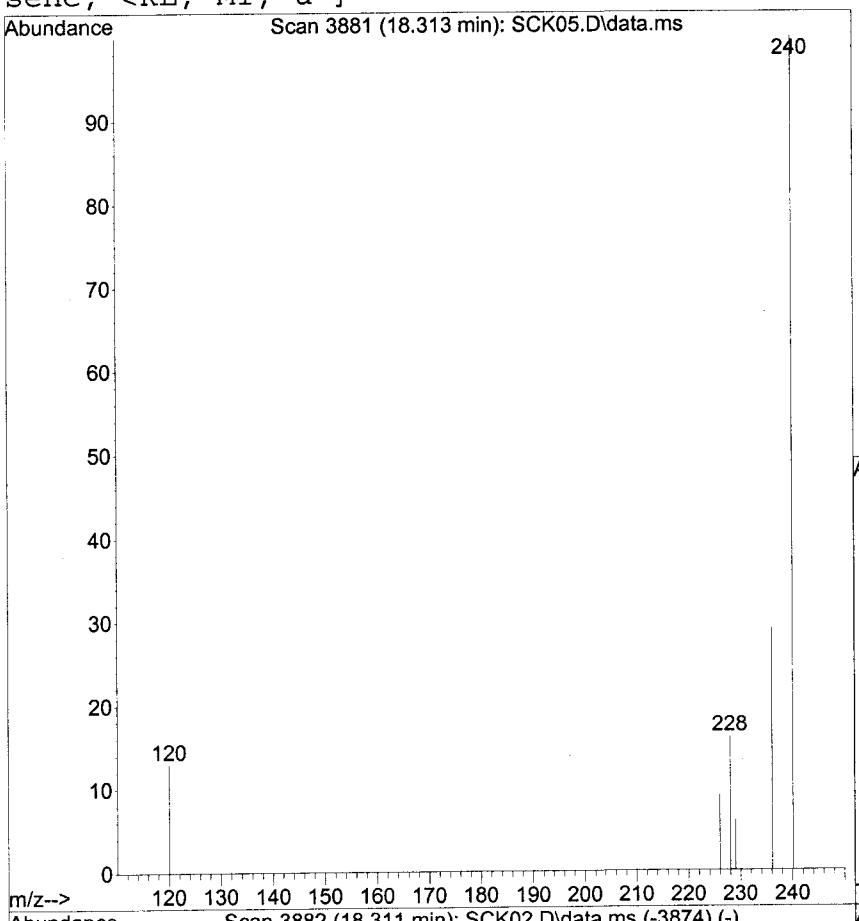
Ref





[Chrysene; <RL; MI; u]

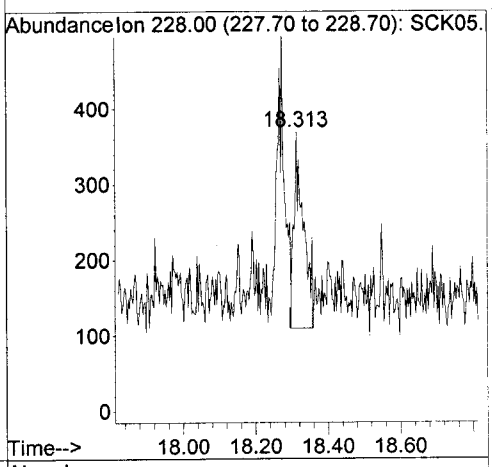
Raw



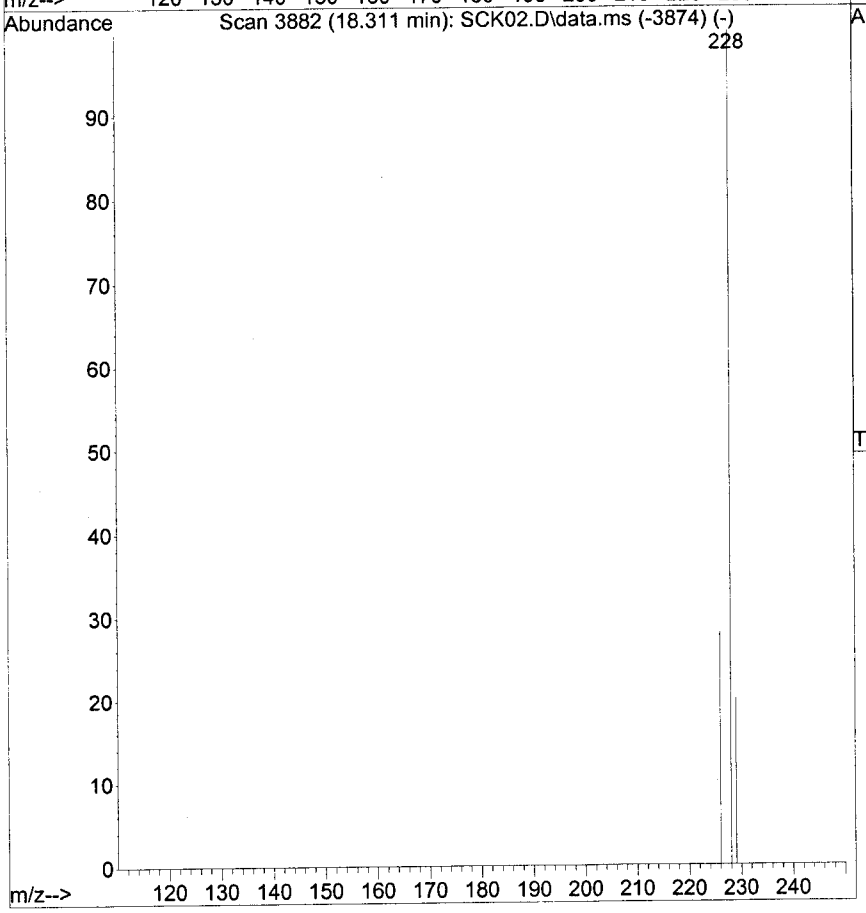
#21
Chrysene
Concen: 0.0061 ug/mL m
RT: 18.313 min Scan# 3881
Delta R.T. 0.003 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

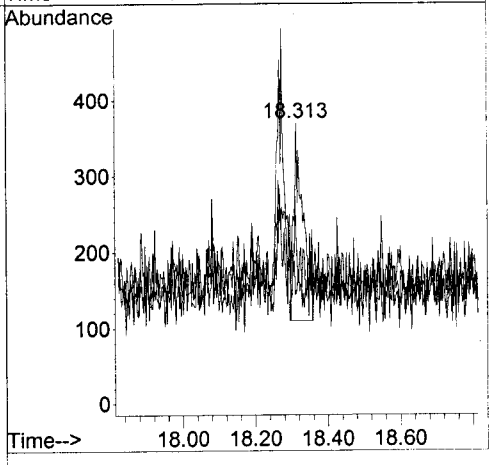
Tgt Ion:228 Resp: 471

Ion	Ratio	Lower	Upper
228	100		
226	56.5	10.9	50.9#
229	40.0	0.5	40.5



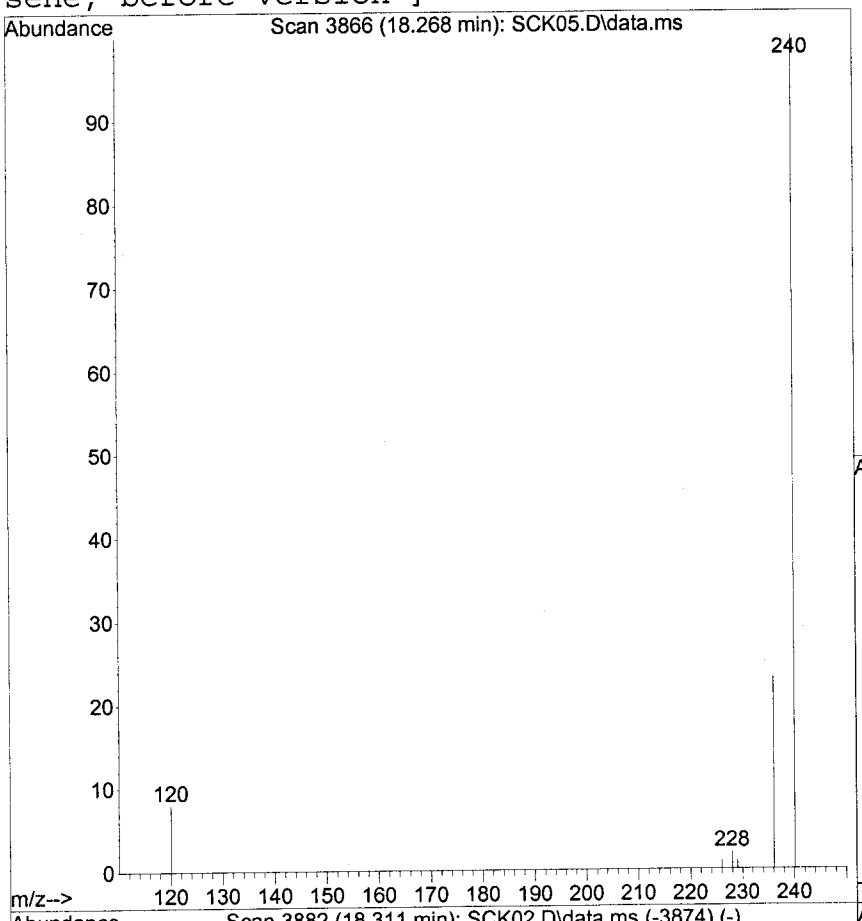
Ref





[Chrysene; before version]

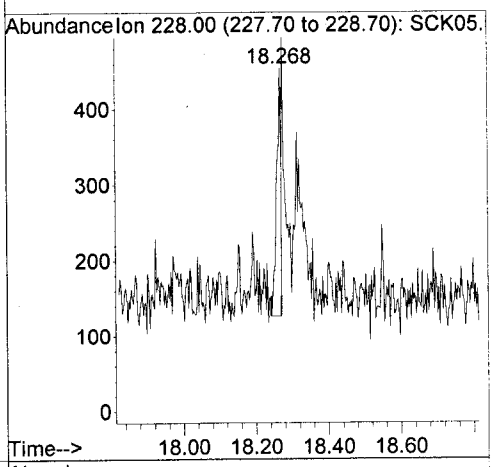
Raw



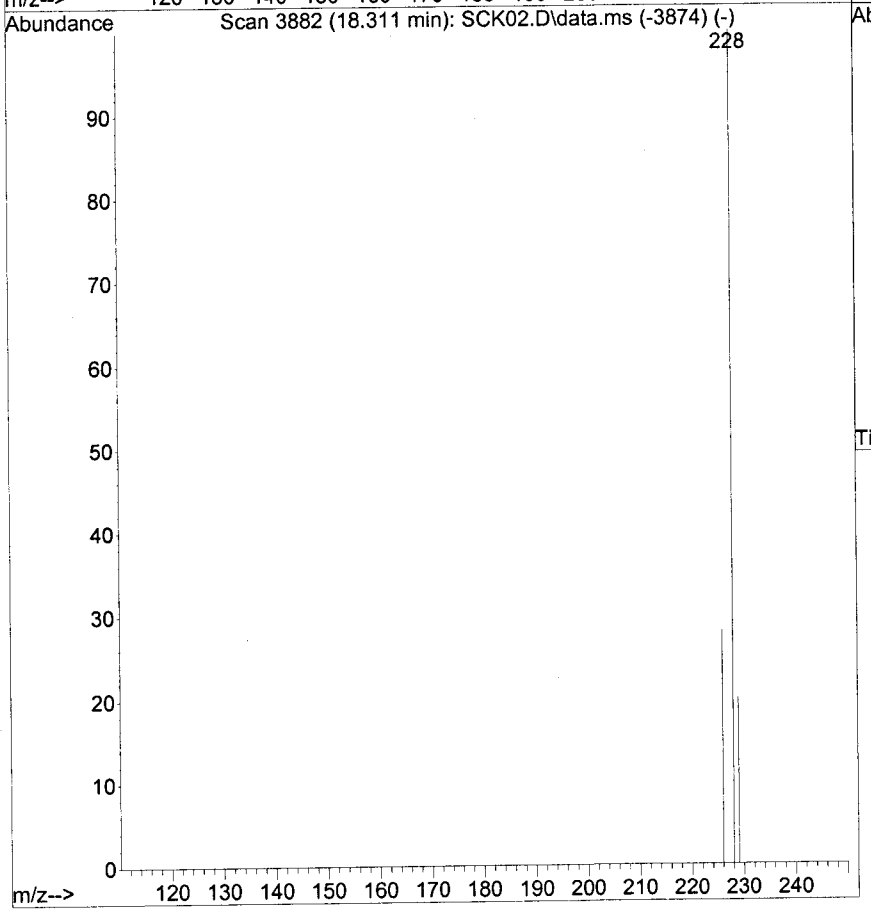
#21
Chrysene
Concen: 0.0034 ug/mL
RT: 18.268 min Scan# 3866
Delta R.T. -0.043 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

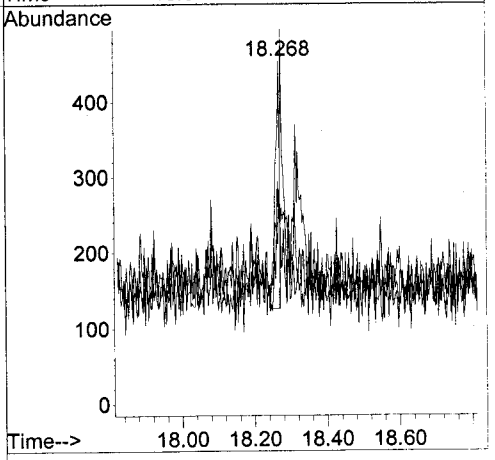
Tgt Ion:228 Resp: 258

Ion	Ratio	Lower	Upper
228	100		
226	54.0	10.9	50.9#
229	62.3	0.5	40.5#



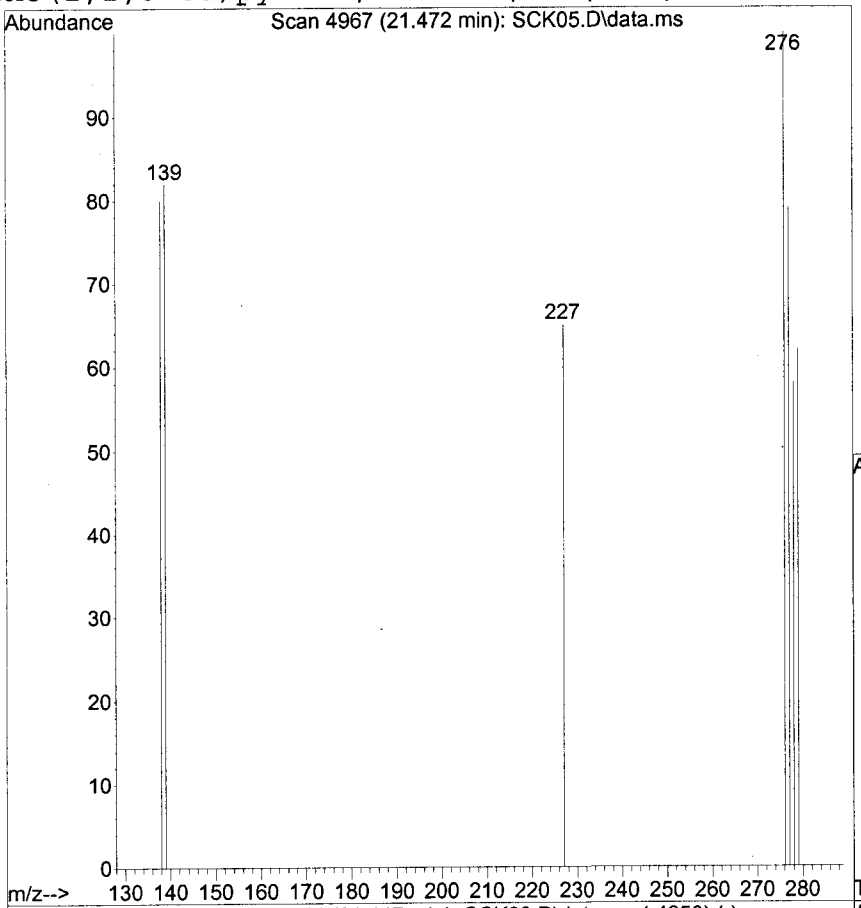
Ref





[Indeno(1,2,3-cd)pyrene; 0.68 J; MI; FP; u]

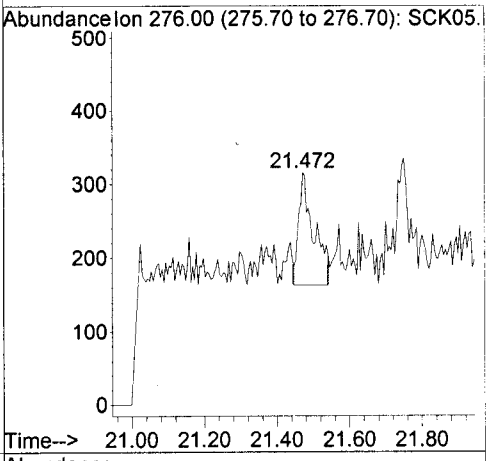
Raw



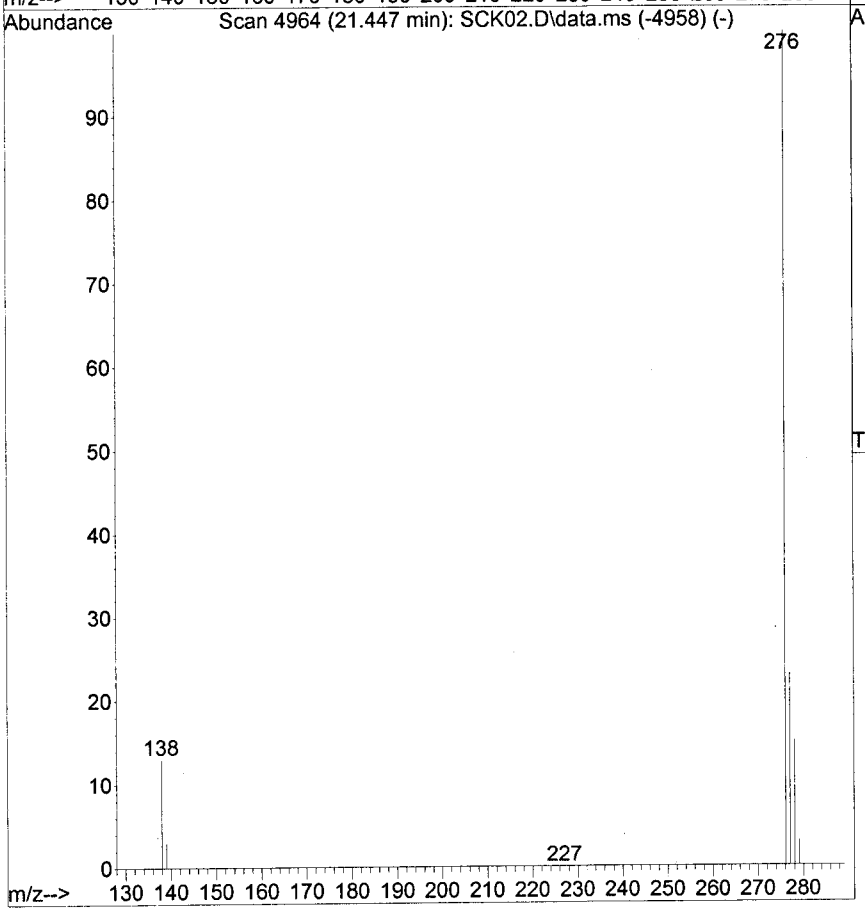
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0204 ug/mL m
RT: 21.472 min Scan# 4967
Delta R.T. 0.025 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

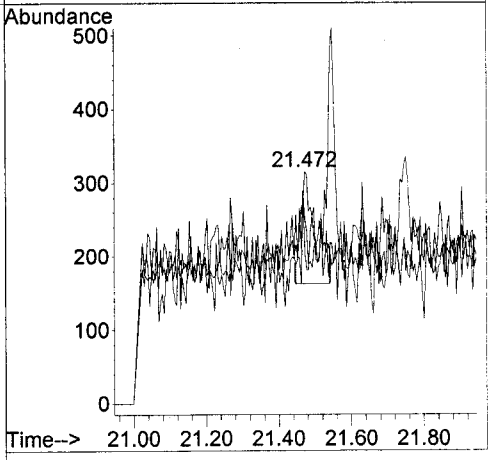
Tgt Ion:276 Resp: 441

Ion	Ratio	Lower	Upper
276	100		
138	80.0	2.0	42.0#
227	65.4	0.0	26.7#



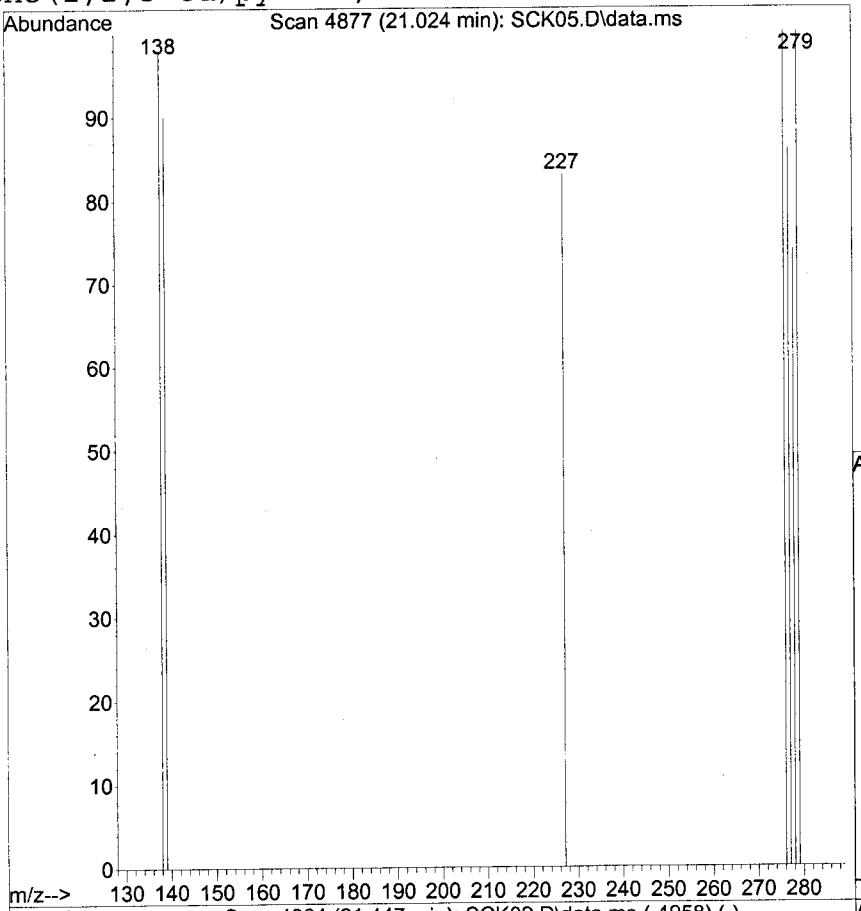
Ref





[Indeno(1,2,3-cd)pyrene; before version]

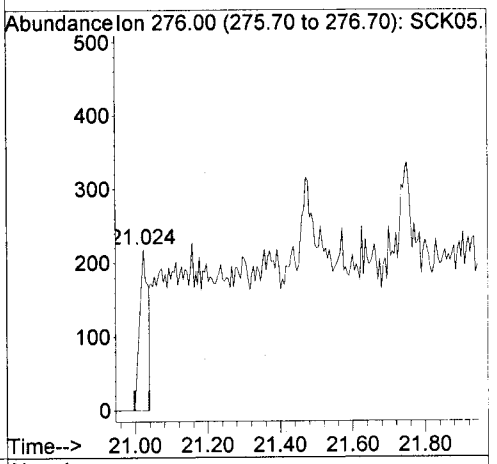
Raw



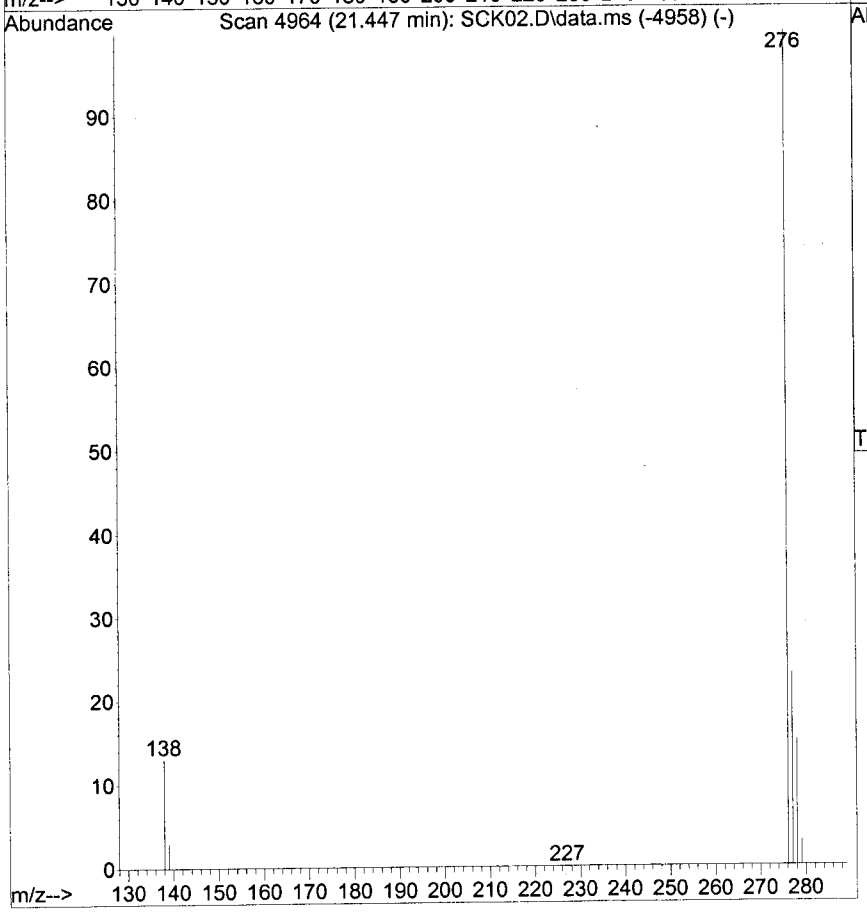
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0204 ug/mL
RT: 21.024 min Scan# 4877
Delta R.T. -0.423 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

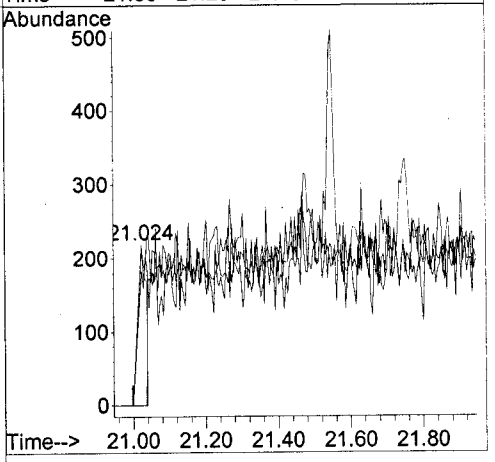
Tgt Ion:276 Resp: 440

Ion	Ratio	Lower	Upper
276	100		
138	98.6	2.0	42.0#
227	83.6	0.0	26.7#



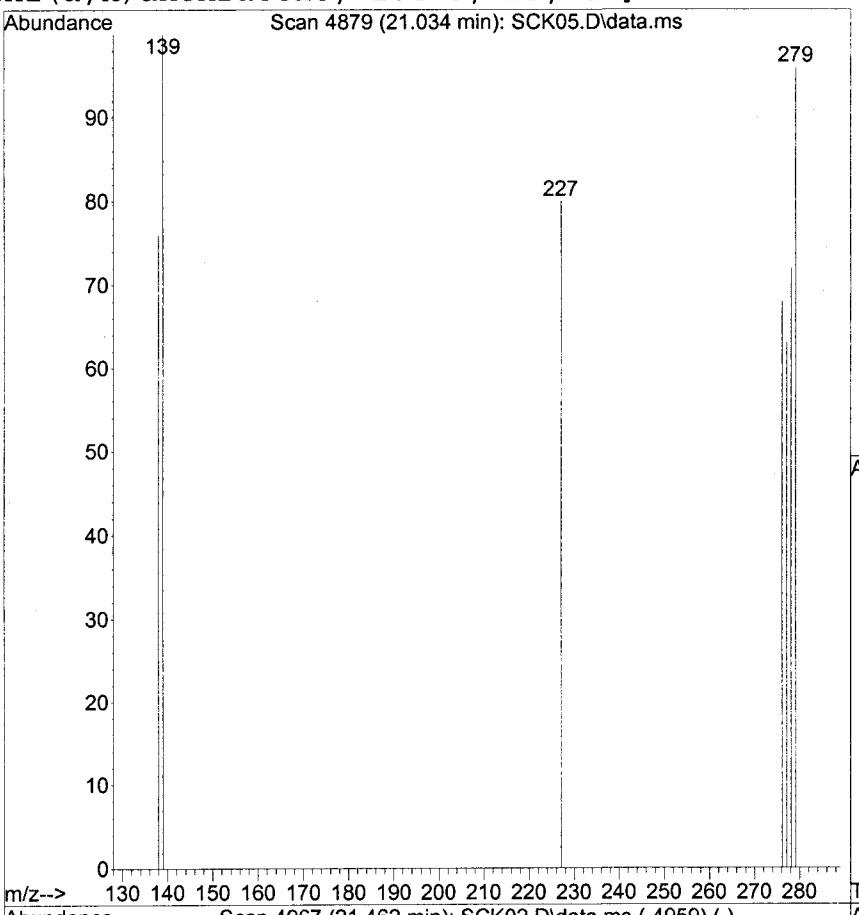
Ref





[Dibenz(a,h)anthracene; 1.4 J; FP; u]

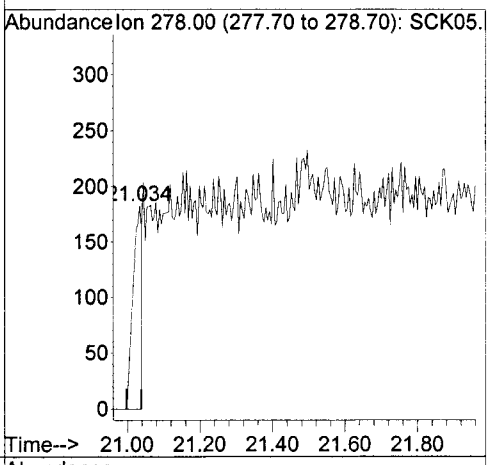
Raw



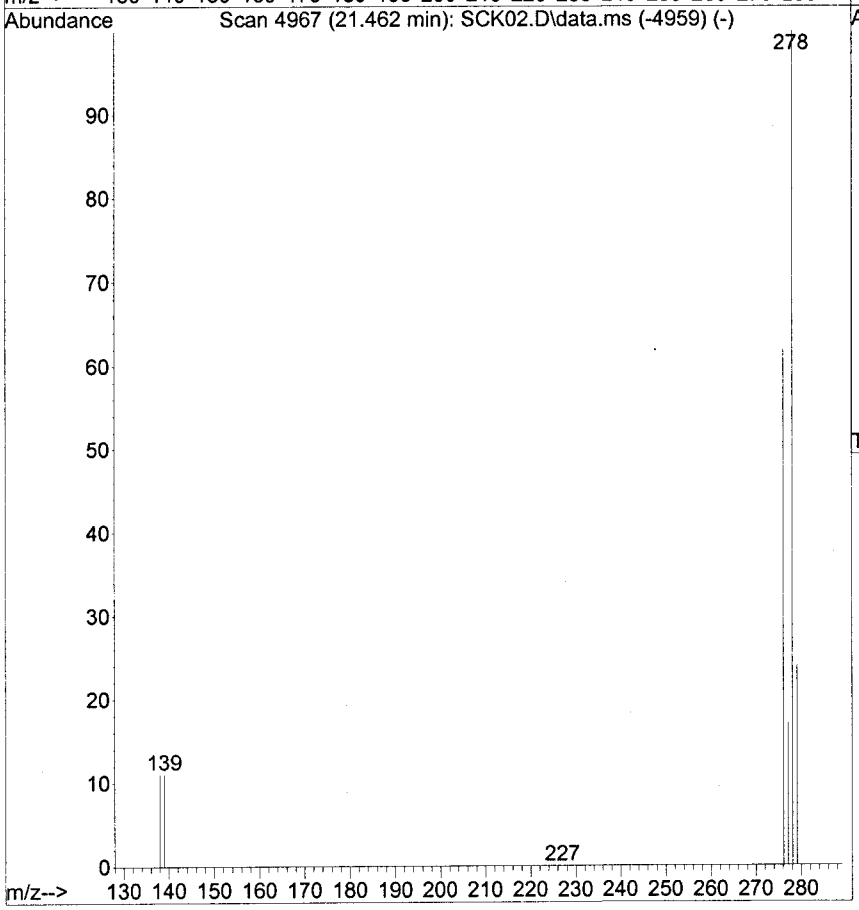
#27
Dibenz(a,h)anthracene
Concen: 0.0433 ug/mL
RT: 21.034 min Scan# 4879
Delta R.T. -0.428 min
Lab File: SCK05.D
Acq: 20 Mar 2008 12:05 pm

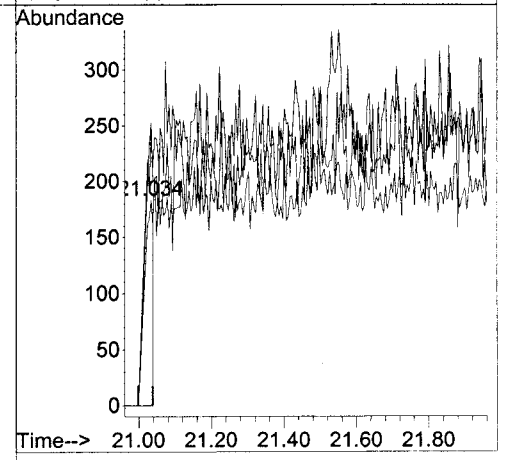
Tgt Ion:278 Resp: 402

Ion	Ratio	Lower	Upper
278	100		
139	138.3	8.1	48.1#
279	132.8	15.9	55.9#



Ref





00188

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst	: MSBNA08	Lab ID	: 202043-008	Client ID	: 1065EX313[4.5]
Seqnum	: 578115801006	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: sck06	Batch	: 136173	Time	: 20-MAR-2008 12:39
Cal	: 578083102001	Caldate	: 26-FEB-2008		
IDF	: 1.0	Raw Units	: ug/mL	Units	: ug/Kg

30.18 g --> 1.0 ml = 0.03313 ml/g PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	2.979	99	5.0		u
2-Methylnaphthalene	4.923	160	5.0		u
Acenaphthylene	0.07560	2.5 J	5.0		m u
Acenaphthene	0.1389	4.6 J	5.0		u
Fluorene	0.3178	11	5.0		u
Phenanthrene	0.5359	18	5.0		u
Anthracene	0.07230	2.4 J	5.0		m u
Fluoranthene	0.3030	10	5.0		m u
Pyrene	0.3537	12	5.0		u
Benzo(a)anthracene	0.1841	6.1	5.0		u
Chrysene	0.2348	7.8	5.0		m u
Benzo(b)fluoranthene	0.4046	13	5.0		u
Benzo(k)fluoranthene	0.09050	3.0 J	5.0		m u
Benzo(a)pyrene	0.2493	8.3	5.0		u
Indeno(1,2,3-cd)pyrene	0.2665	8.8	5.0		m u
Dibenz(a,h)anthracene	0.09540	3.2 J	5.0		u
Benzo(g,h,i)perylene	0.3107	10	5.0		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	2.259	33.13	74.85	**226***	23-120	m u
2-Fluorobiphenyl	0.8957	33.13	29.68	90	30-115	u
Terphenyl-d14	0.9139	33.13	30.28	91	18-137	u

ISTD (CCV sck02)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE R	Drift
Naphthalene-d8	64577	91136	41.13	10.60	10.59	-0.01
Acenaphthene-d10	45669	46820	2.52	12.82	12.82	0.00
Phenanthrene-d10	83109	80892	-2.67	14.72	14.72	0.00
Chrysene-d12	92399	80124	-13.28	18.27	18.28	0.01
Perylene-d12	87612	90294	3.06	20.21	20.22	0.01

LLH 03/20/08 [Nitrobenzene-d5]: surr out high due to obvious matrix interference

LLH 03/20/08 : High chromatographic background.

LLH: 03/20/08 JAJ: 03/20/08 EAH: 03/21/08

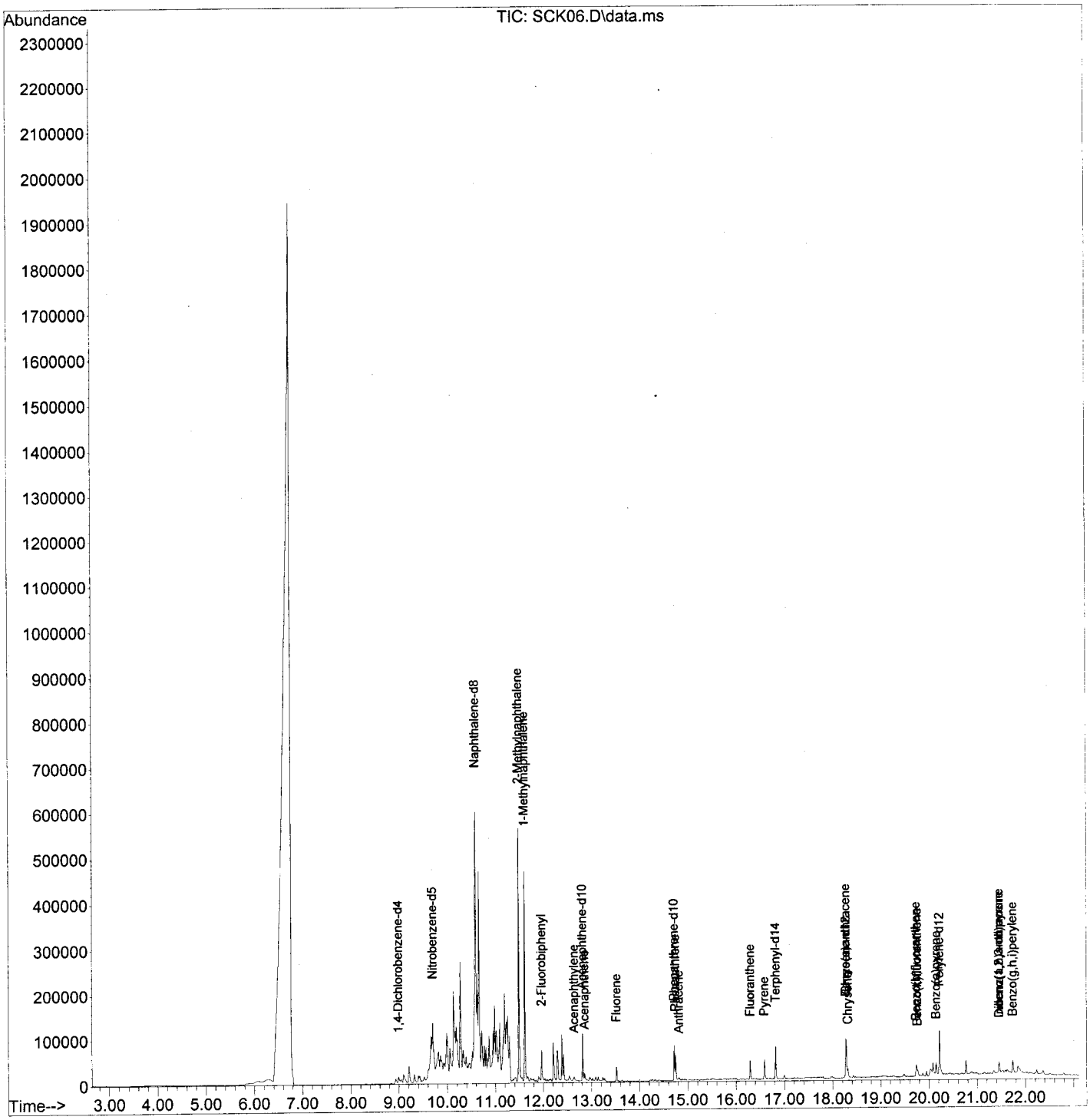
m=manual integration u=use

578115801006

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK06.D
Acq On : 20 Mar 2008 12:39 pm
Operator :
Sample : S,202043-008
Misc : 136173,1,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 20 13:11:11 2008
Quant Method : G:\msbna08\032008\8PAHSIM.m
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration



00190

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK06.D
Acq On : 20 Mar 2008 12:39 pm
Operator :
Sample : S,202043-008
Misc : 136173,1,
ALS Vial : 6 Sample Multiplier: 1

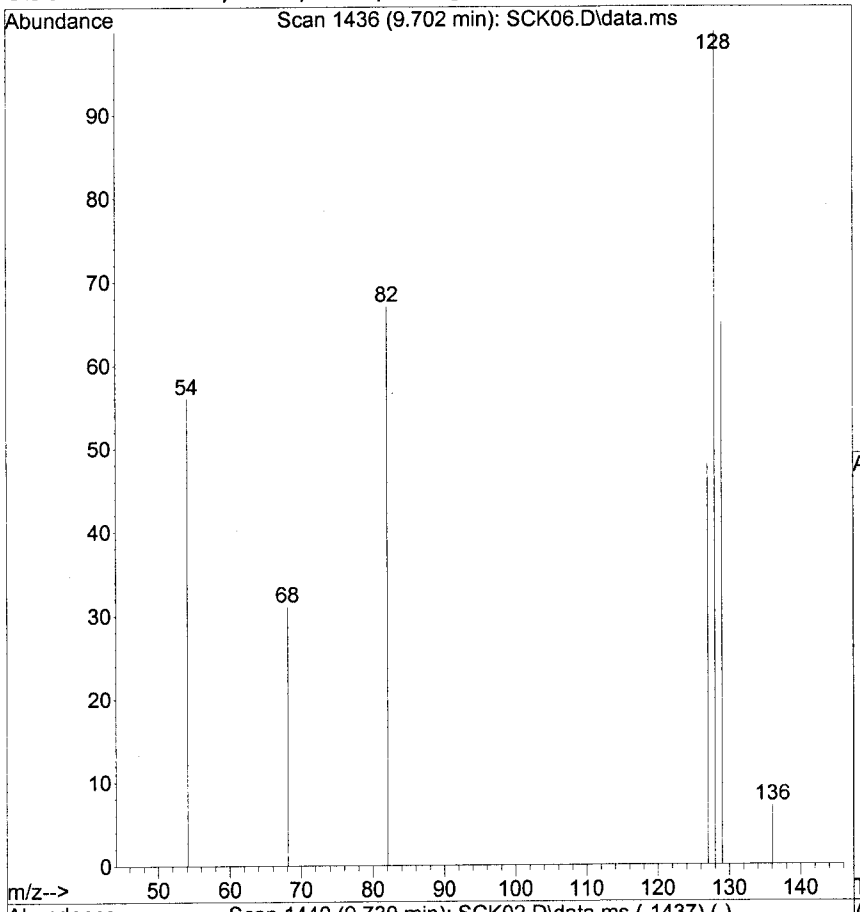
Quant Time: Mar 20 13:11:11 2008
Quant Method : G:\msbna08\032008\8PAHSIM.m
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	8.990	152	17003	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.588	136	91136	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.816	164	46820	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.718	188	80892	1.0000	ug/mL	0.00
17) Chrysene-d12	18.276	240	80124	1.0000	ug/mL	0.00
22) Perylene-d12	20.215	264	90294	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.		
4) Nitrobenzene-d5	9.702	82	34060m	2.2589	ug/mL	
5) Naphthalene	10.594	128	276558	2.9789	ug/mL	# 1
6) 2-Methylnaphthalene	11.492	142	315869	4.9232	ug/mL	93
7) 1-Methylnaphthalene	11.615	142	247853	3.6475	ug/mL	96
9) 2-Fluorobiphenyl	11.966	172	55097	0.8957	ug/mL	95
10) Acenaphthylene	12.635	152	5976m	0.0756	ug/mL	
11) Acenaphthene	12.858	154	6615	0.1389	ug/mL	90
12) Fluorene	13.517	166	17529	0.3178	ug/mL	87
14) Phenanthrene	14.745	178	46924	0.5359	ug/mL	99
15) Anthracene	14.819	178	6449m	0.0723	ug/mL	
16) Fluoranthene	16.294	202	31087m	0.3030	ug/mL	
18) Pyrene	16.588	202	36333	0.3537	ug/mL	96
19) Terphenyl-d14	16.819	244	70350	0.9139	ug/mL	96
20) Benzo(a)anthracene	18.264	228	16061	0.1841	ug/mL	79
21) Chrysene	18.313	228	23055m	0.2348	ug/mL	
23) Benzo(b)fluoranthene	19.732	252	35395	0.4046	ug/mL	# 76
24) Benzo(k)fluoranthene	19.763	252	10508m	0.0905	ug/mL	
25) Benzo(a)pyrene	20.145	252	25239	0.2493	ug/mL	# 69
26) Indeno(1,2,3-cd)pyrene	21.456	276	25077m	0.2665	ug/mL	
27) Dibenz(a,h)anthracene	21.466	278	4923	0.0954	ug/mL	# 35
28) Benzo(g,h,i)perylene	21.735	276	31264	0.3107	ug/mL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

[Nitrobenzene-d5; 75; MI; u]

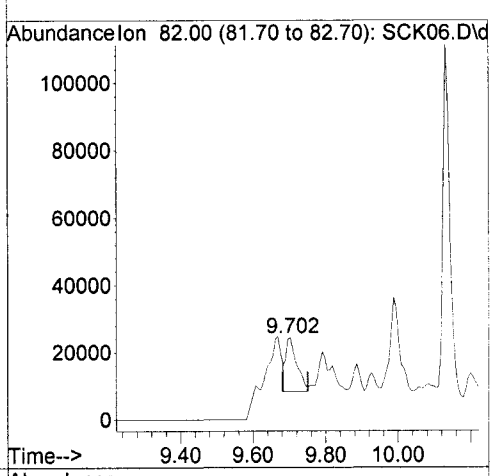
Raw



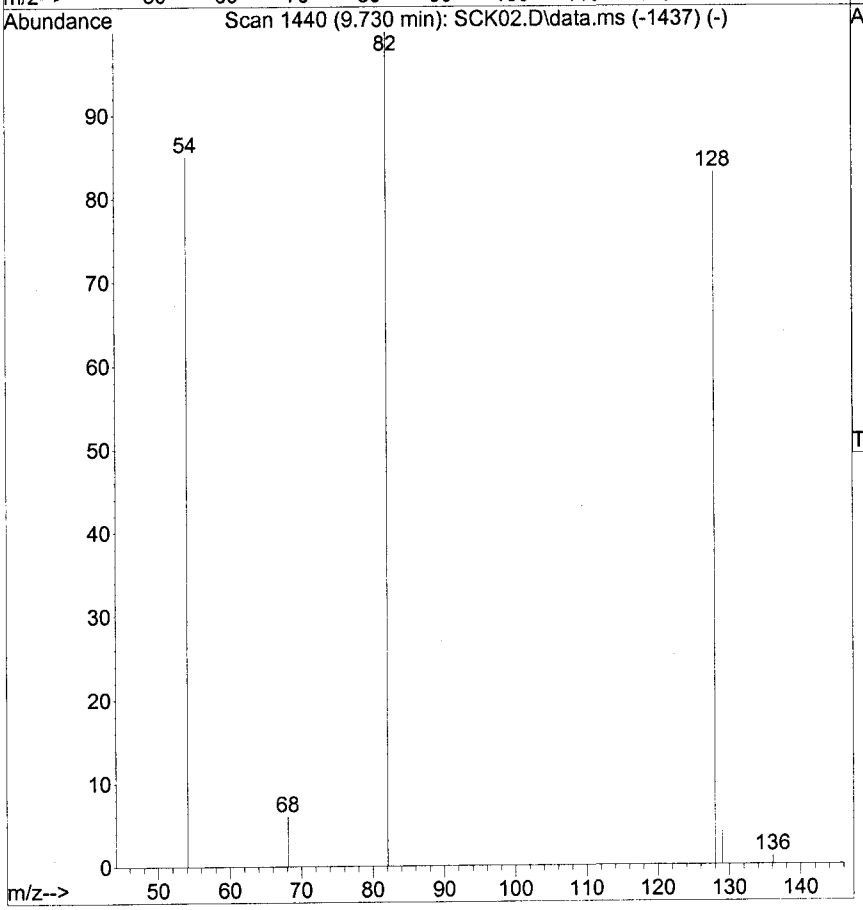
#4
Nitrobenzene-d5
Concen: 2.2589 ug/mL m
RT: 9.702 min Scan# 1436
Delta R.T. -0.028 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

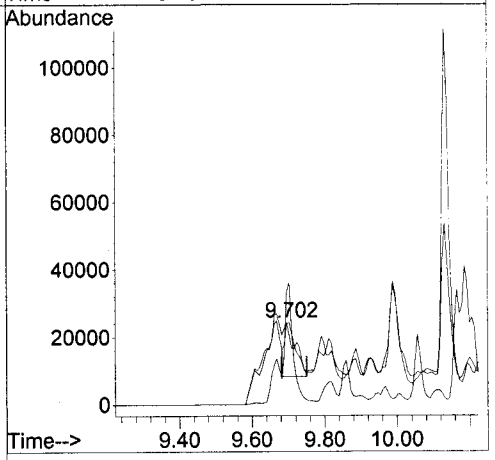
Tgt Ion: 82 Resp: 34060

Ion	Ratio	Lower	Upper
82	100		
128	274.7	52.7	92.7#
54	154.7	73.3	113.3#



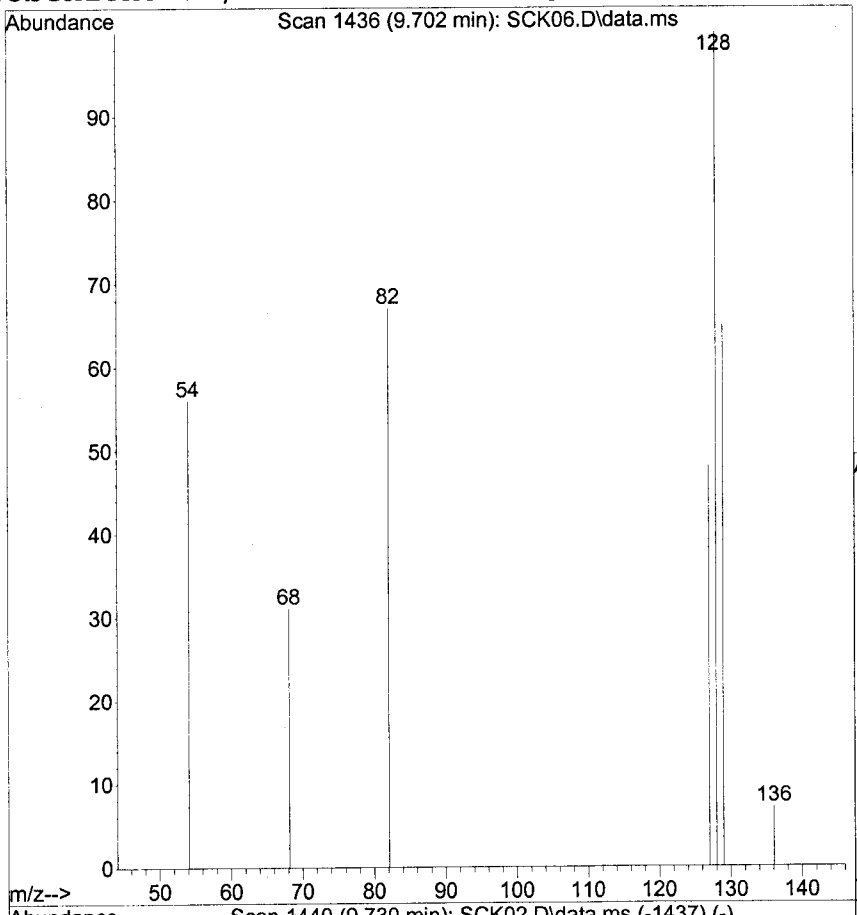
Ref





[Nitrobenzene-d5; before version]

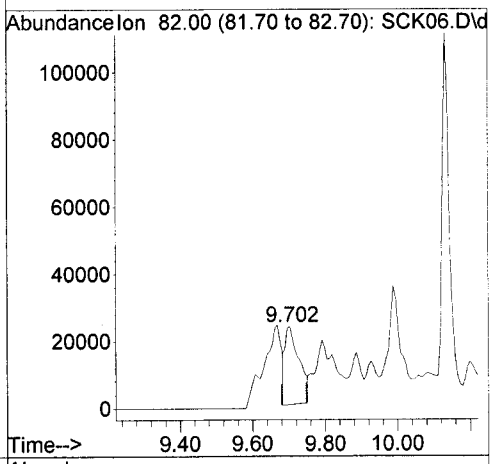
Raw



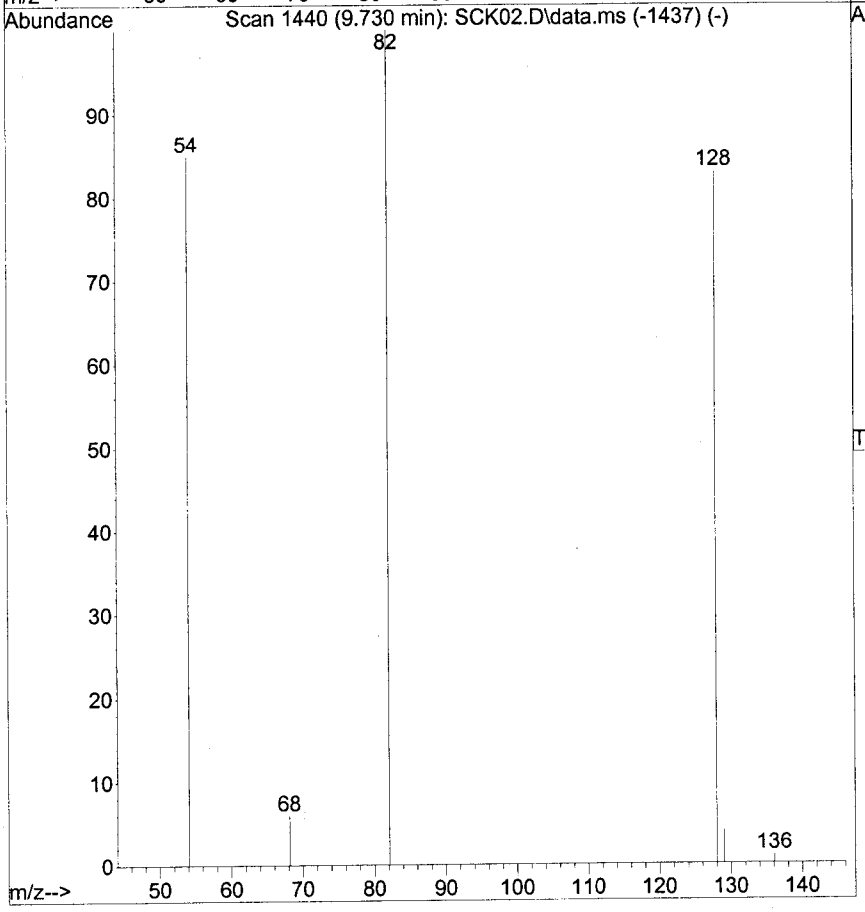
#4
Nitrobenzene-d5
Concen: 3.9787 ug/mL
RT: 9.702 min Scan# 1436
Delta R.T. -0.028 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

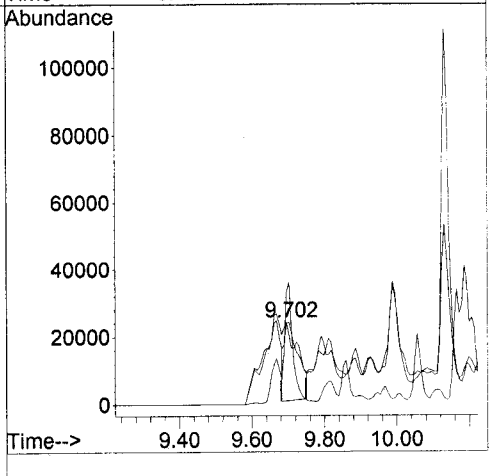
Tgt Ion: 82 Resp: 62743

Ion	Ratio	Lower	Upper
82	100		
128	149.1	52.7	92.7#
54	84.0	73.3	113.3



Ref

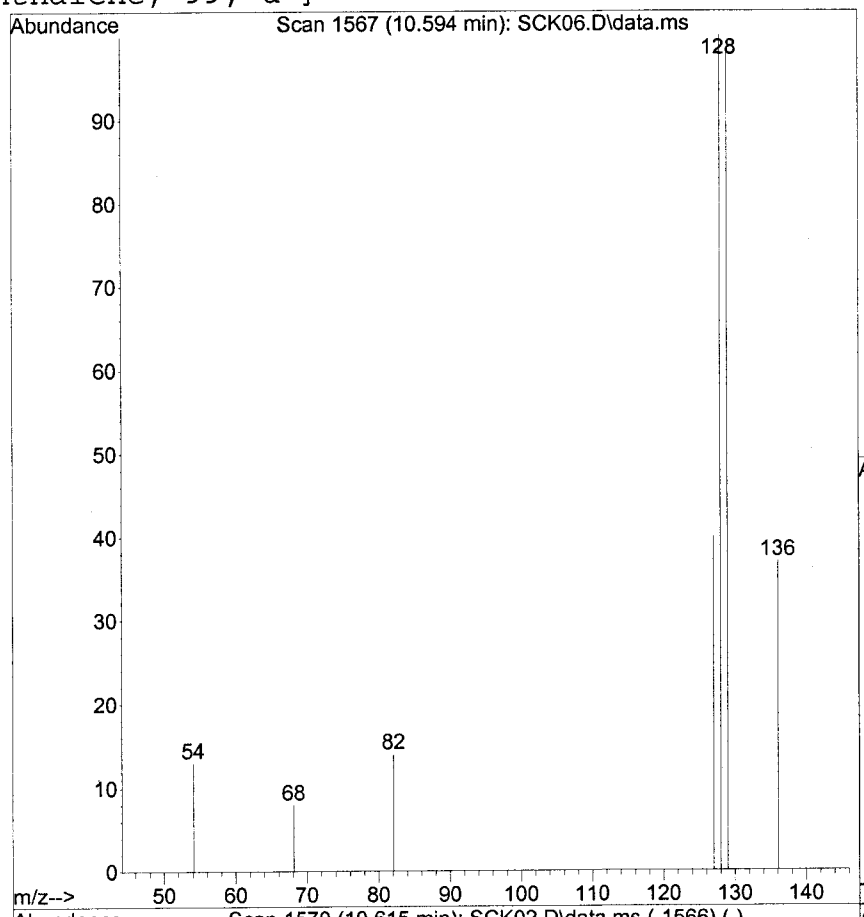




00193

[Naphthalene; 99; u]

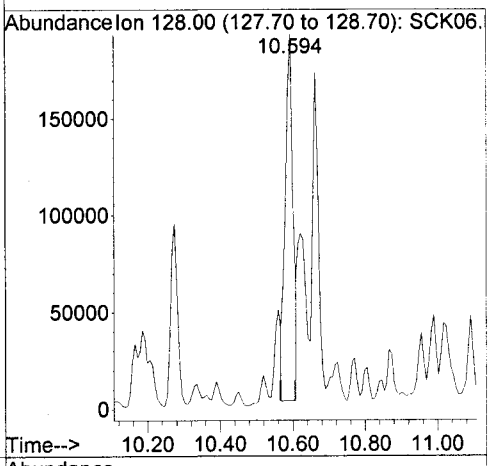
Raw



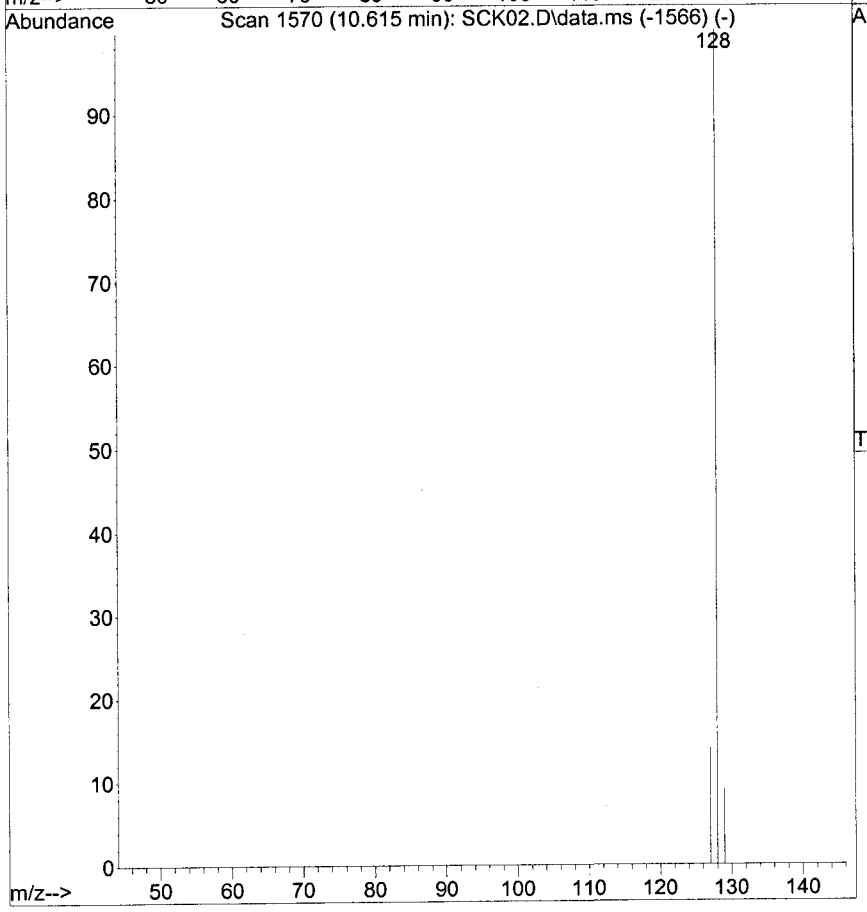
#5
Naphthalene
Concen: 2.9789 ug/mL
RT: 10.594 min Scan# 1567
Delta R.T. -0.021 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

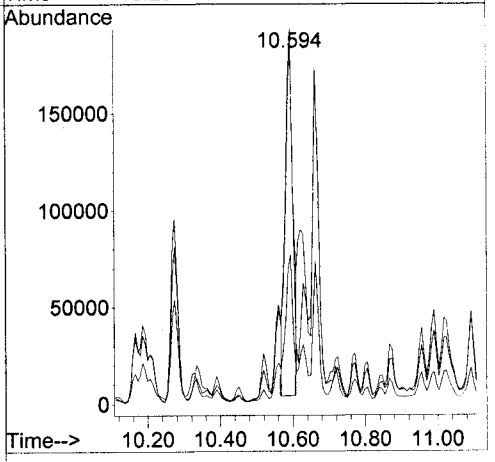
Tgt Ion:128 Resp: 276558

Ion	Ratio	Lower	Upper
128	100		
129	97.6	0.0	31.8#
127	39.7	0.0	33.9#



Ref

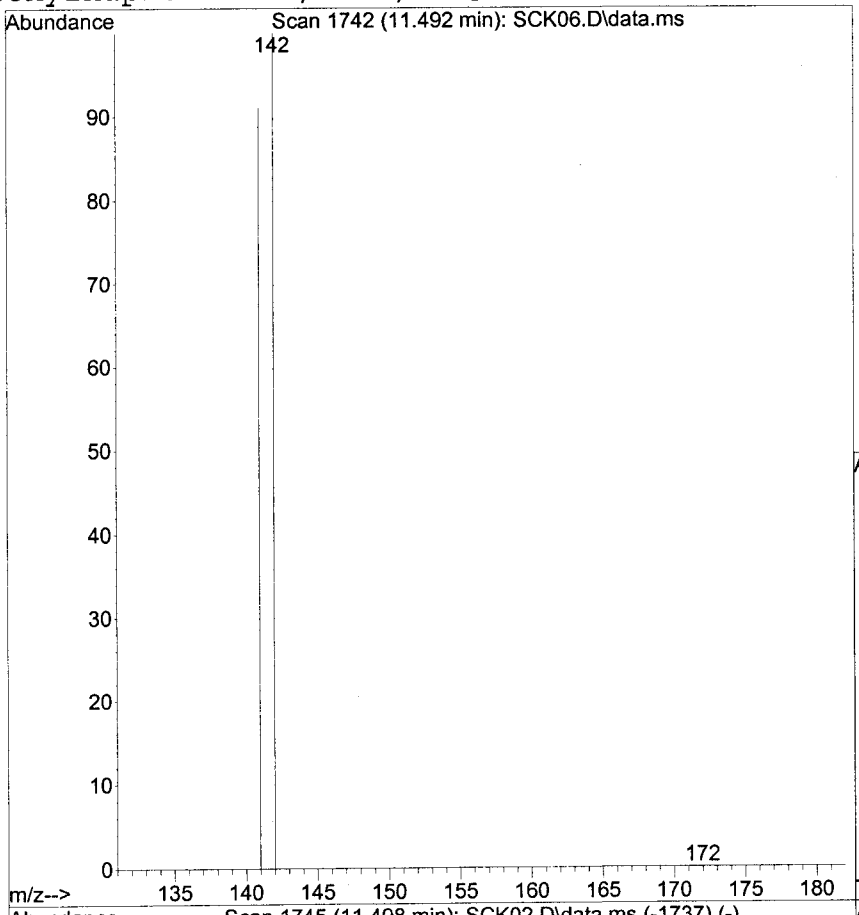




0194

[2-Methylnaphthalene; 160; u]

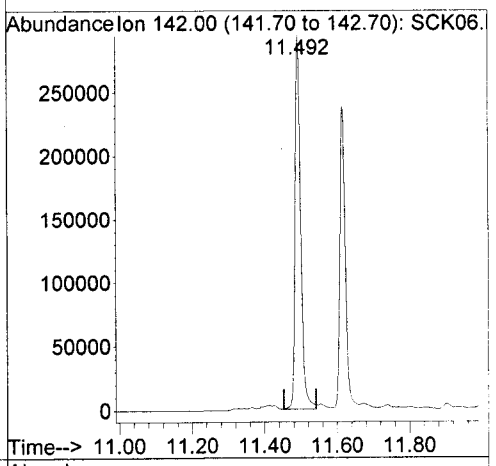
Raw



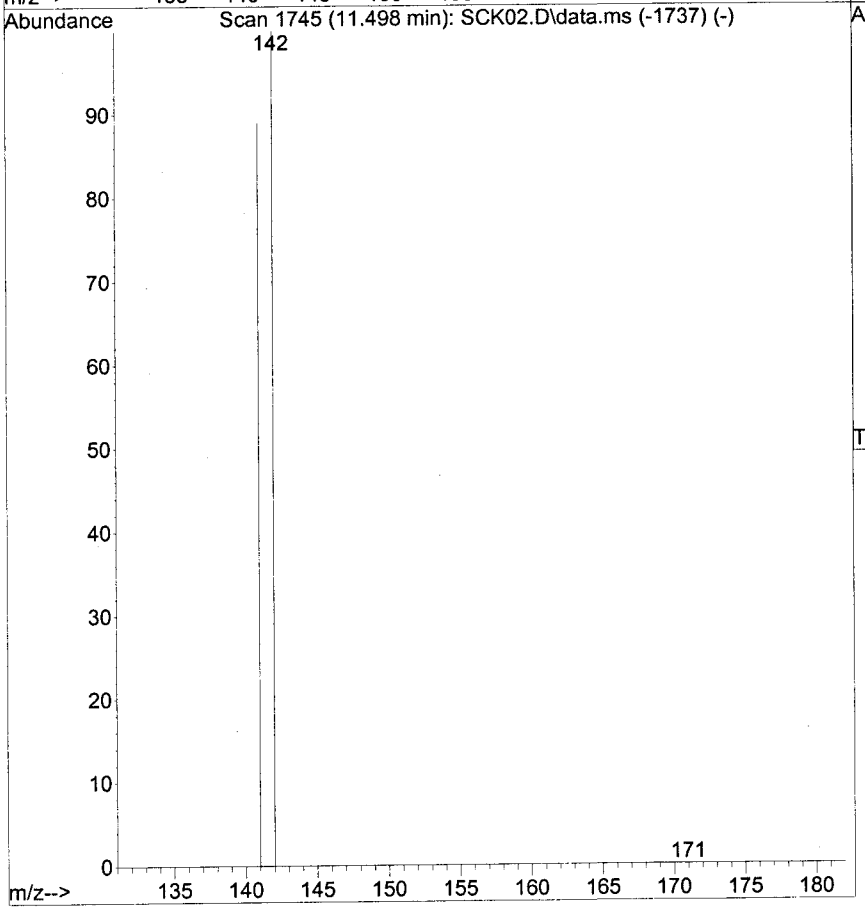
#6
2-Methylnaphthalene
Concen: 4.9232 ug/mL
RT: 11.492 min Scan# 1742
Delta R.T. -0.006 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

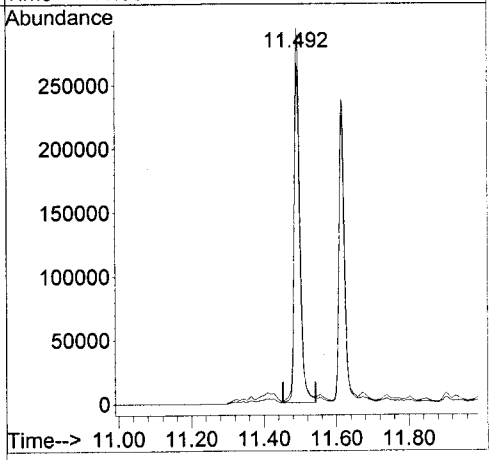
Tgt Ion:142 Resp: 315869

Ion	Ratio	Lower	Upper
142	100		
141	90.7	64.5	104.5



Ref

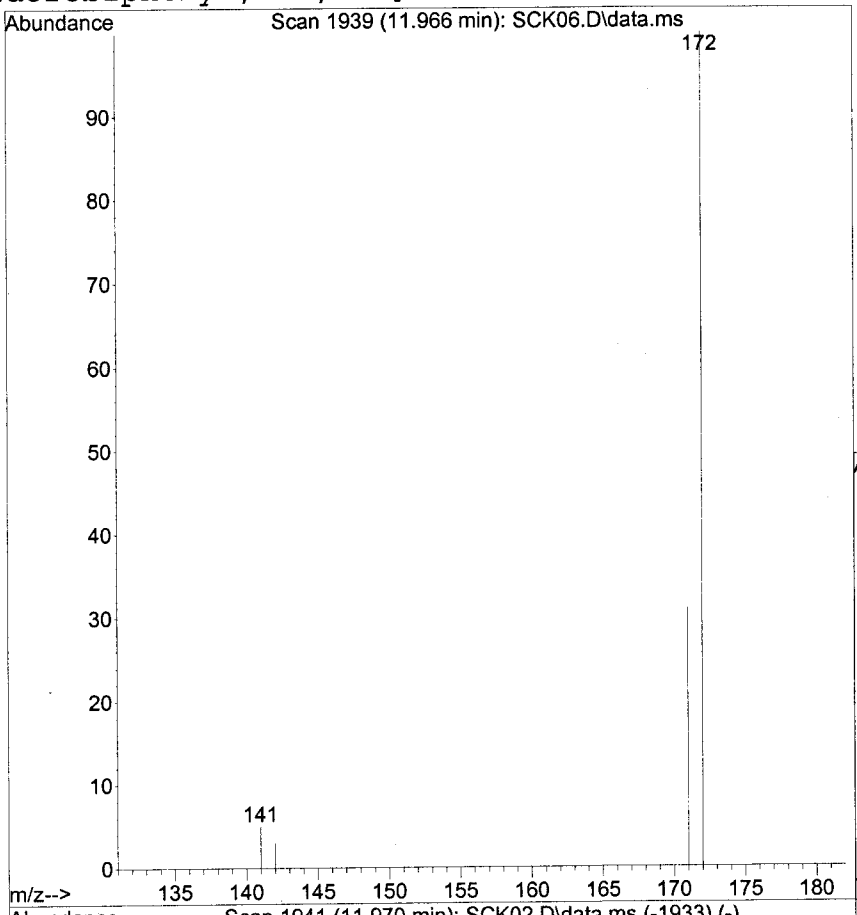




00195

[2-Fluorobiphenyl; 30; u]

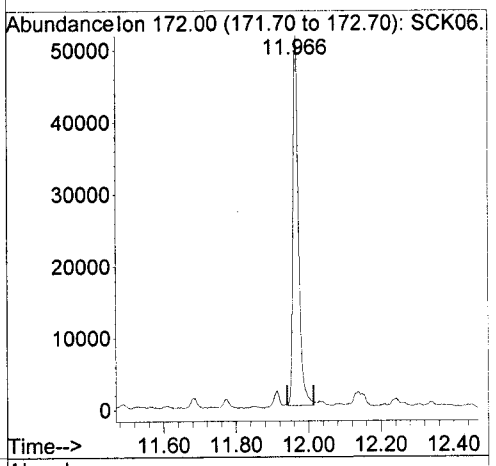
Raw



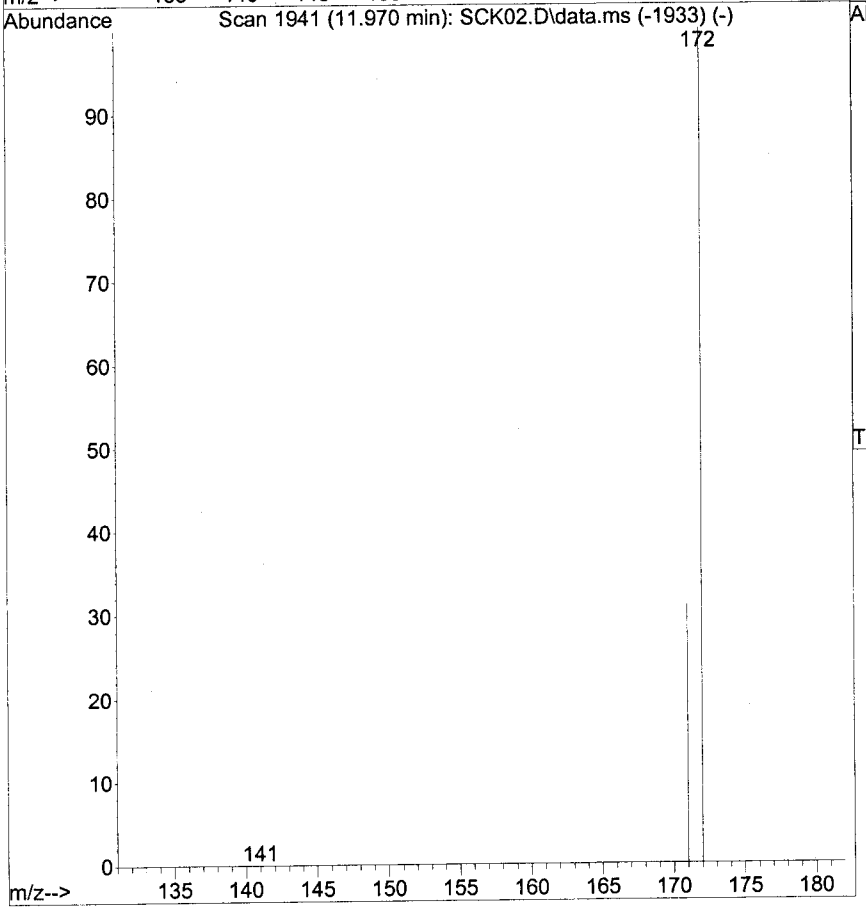
#9
2-Fluorobiphenyl
Concen: 0.8957 ug/mL
RT: 11.966 min Scan# 1939
Delta R.T. -0.004 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

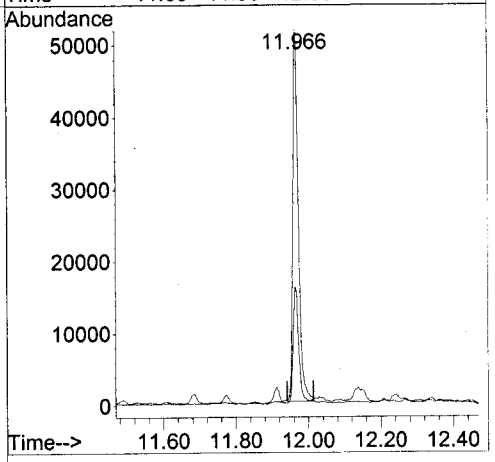
Tgt Ion:172 Resp: 55097

Ion	Ratio	Lower	Upper
172	100		
171	31.2	14.3	54.3



Ref

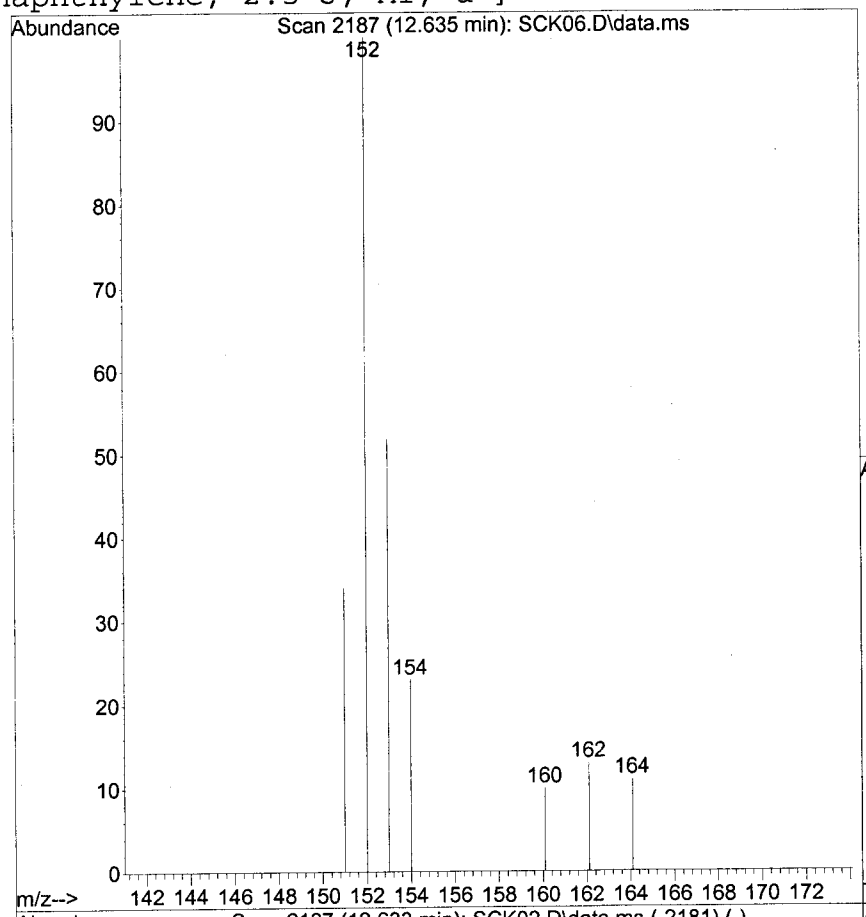




00196

[Acenaphthylene; 2.5 J; MI; u]

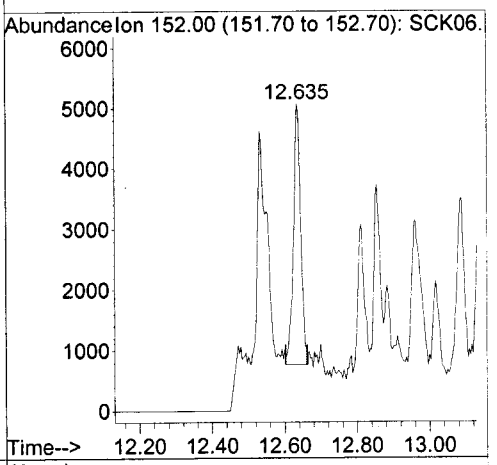
Raw



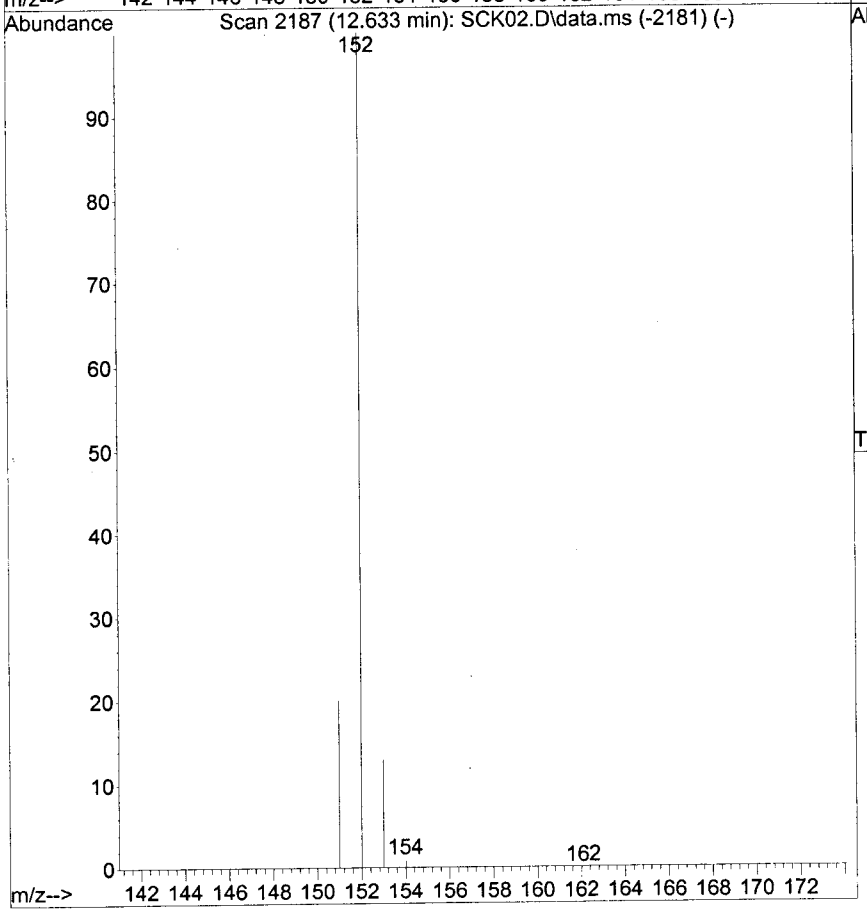
#10
Acenaphthylene
Concen: 0.0756 ug/mL m
RT: 12.635 min Scan# 2187
Delta R.T. 0.003 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

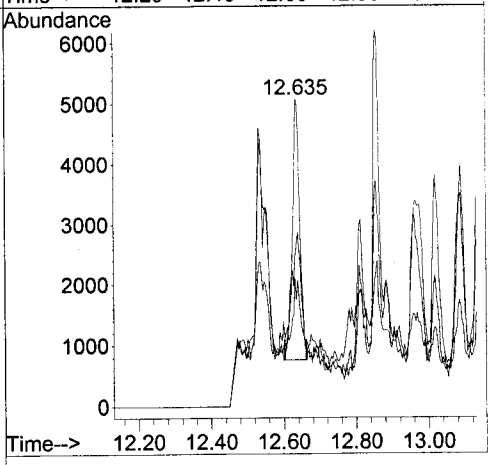
Tgt Ion:152 Resp: 5976

Ion	Ratio	Lower	Upper
152	100		
151	47.5	2.3	42.3#
153	71.7	0.0	34.0#



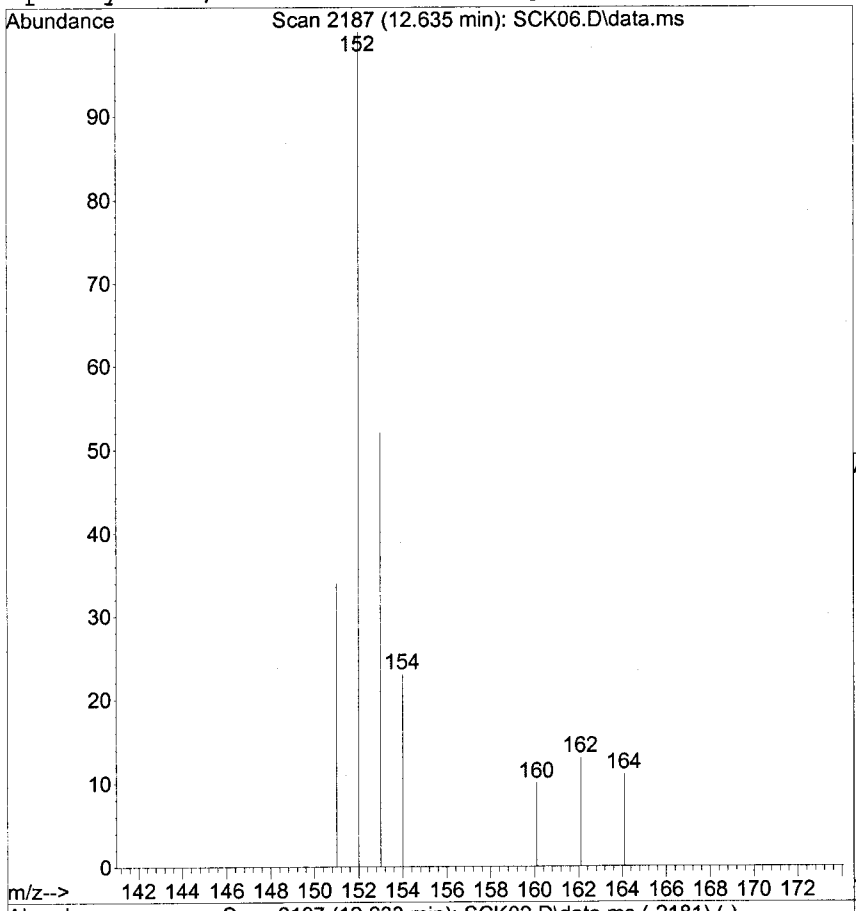
Ref





[Acenaphthylene; before version]

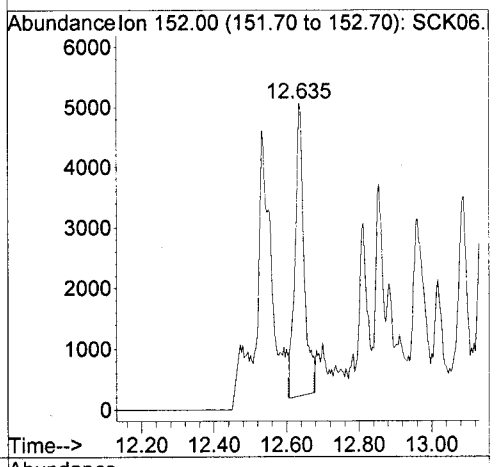
Raw



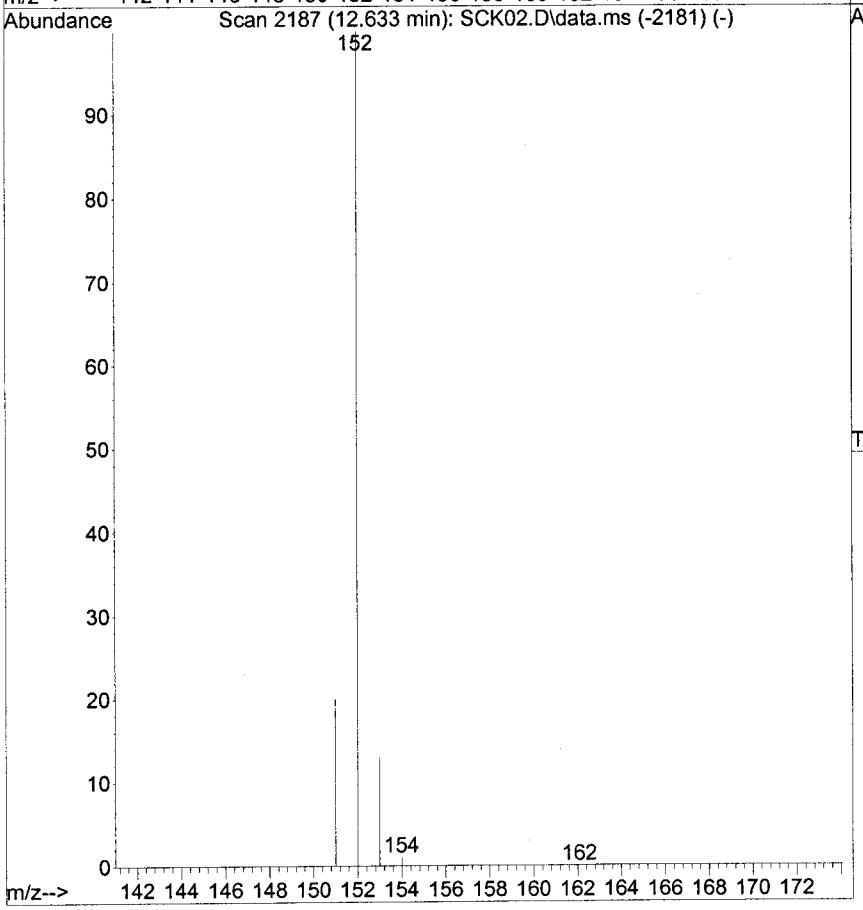
#10
Acenaphthylene
Concen: 0.1045 ug/mL
RT: 12.635 min Scan# 2187
Delta R.T. 0.003 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

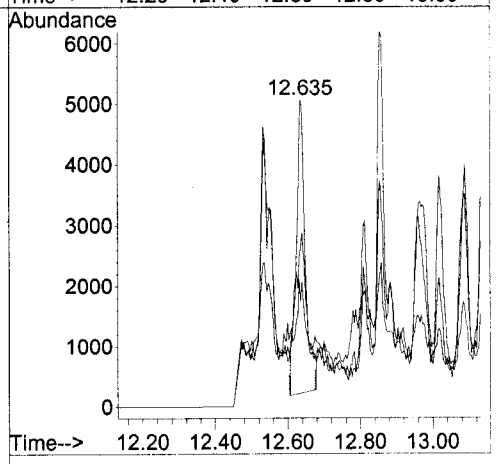
Tgt Ion:152 Resp: 8255

Ion	Ratio	Lower	Upper
152	100		
151	34.4	2.3	42.3
153	51.9	0.0	34.0#



Ref

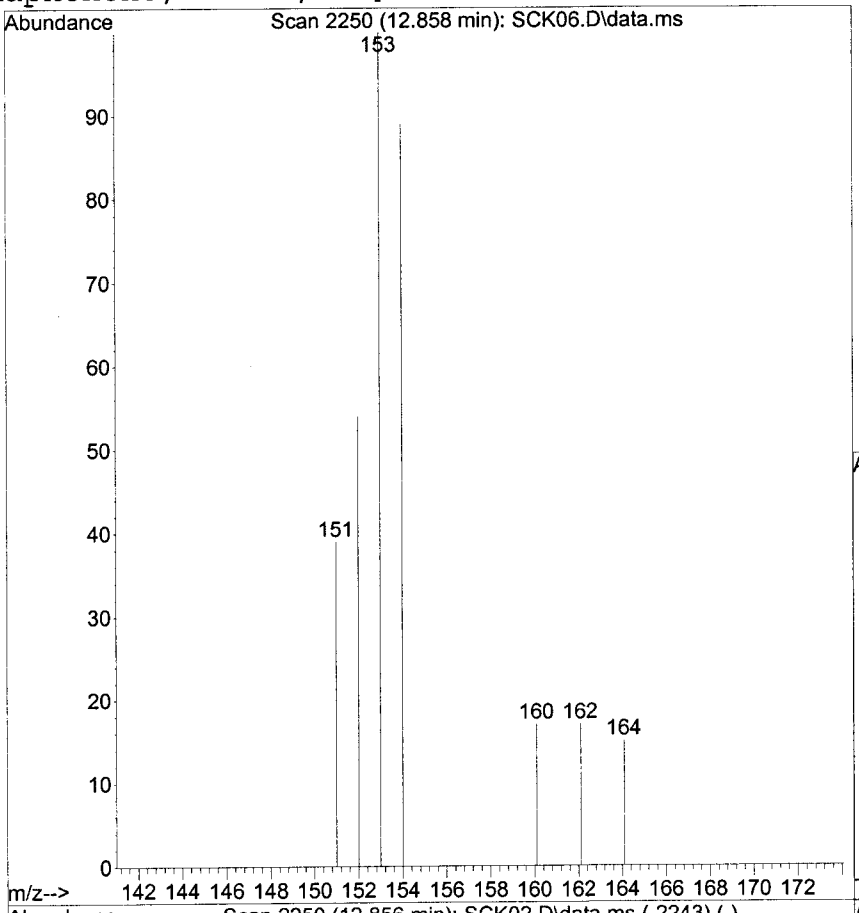




:001998

[Acenaphthene; 4.6 J; u]

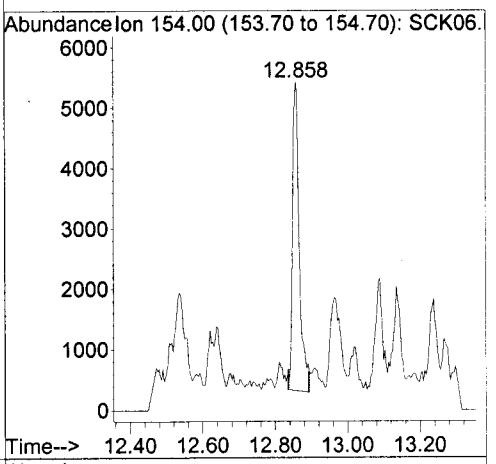
Raw



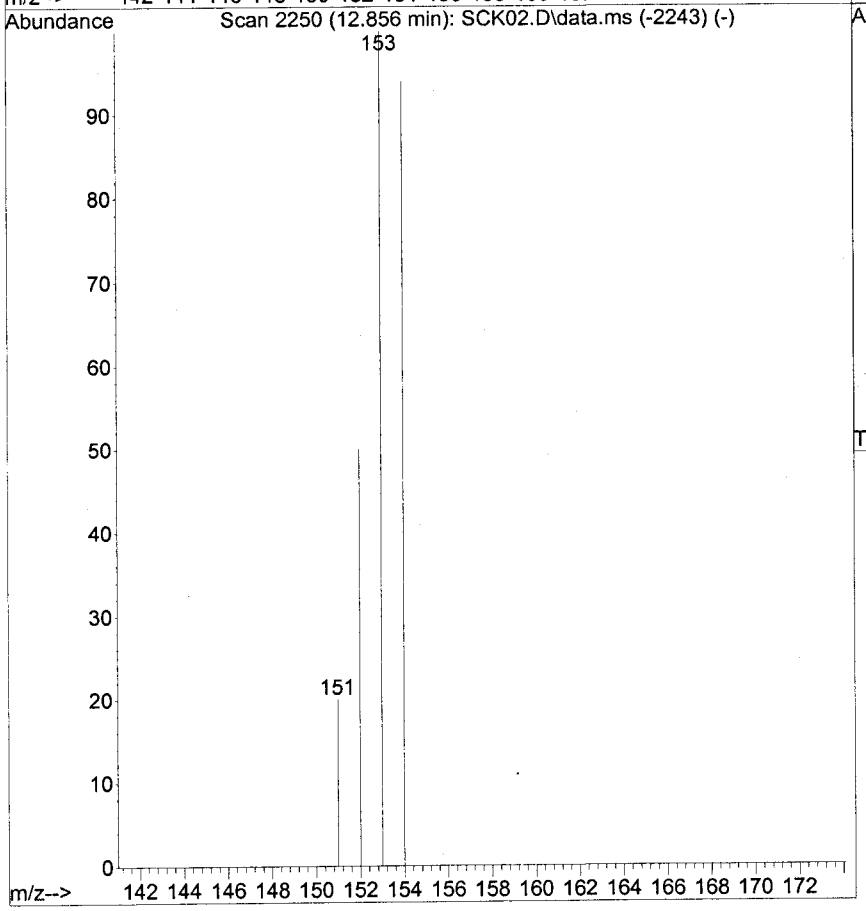
#11
Acenaphthene
Concen: 0.1389 ug/mL
RT: 12.858 min Scan# 2250
Delta R.T. 0.003 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

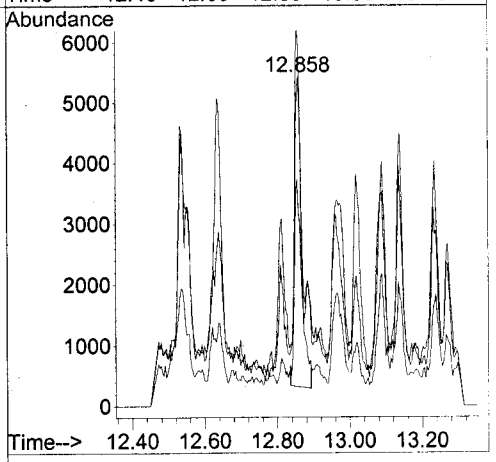
Tgt Ion:154 Resp: 6615

Ion	Ratio	Lower	Upper
154	100		
152	60.1	32.3	72.3
153	112.3	82.2	122.2



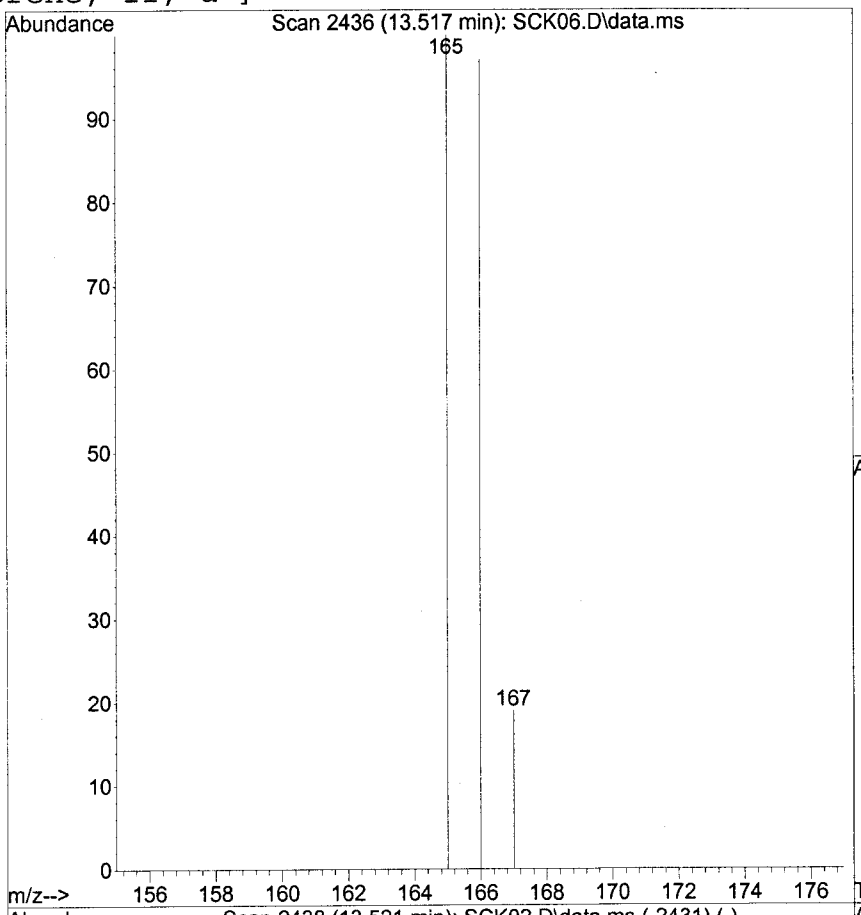
Ref





[Fluorene; 11; u]

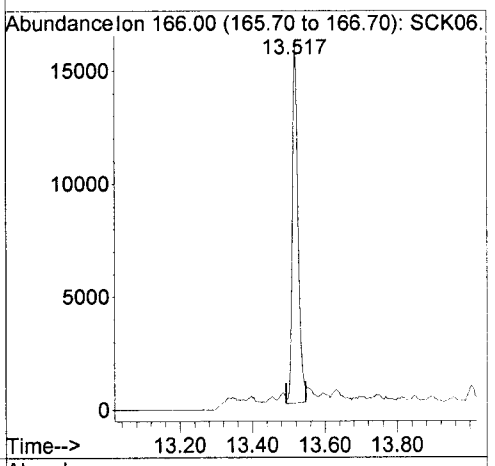
Raw



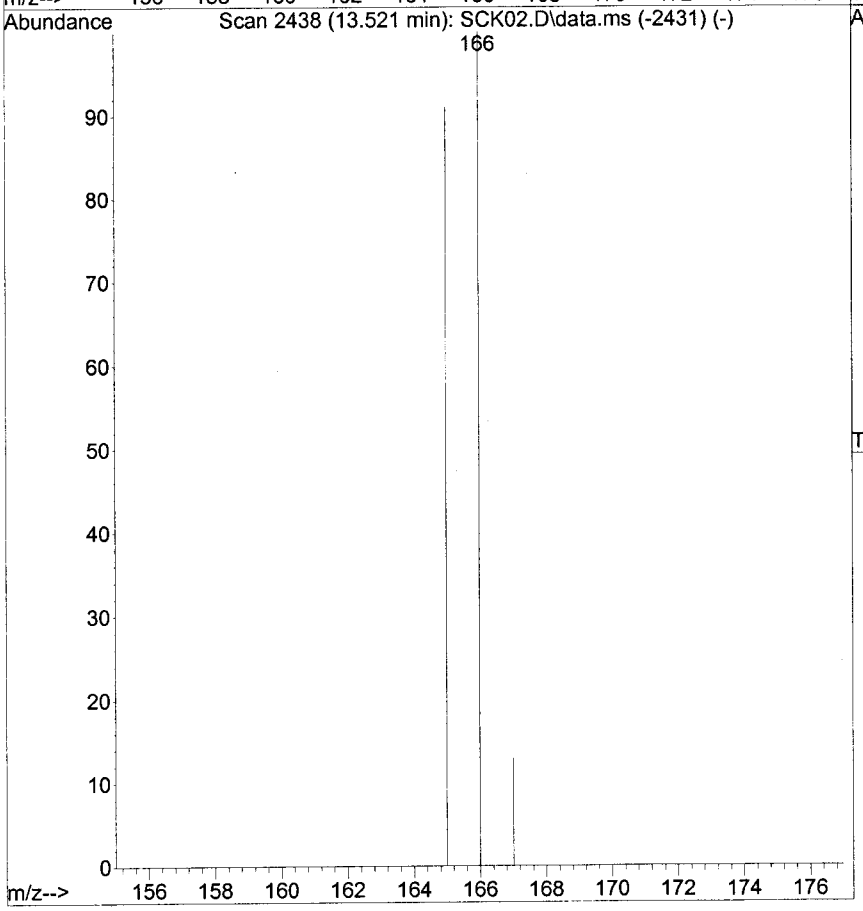
#12
Fluorene
Concen: 0.3178 ug/mL
RT: 13.517 min Scan# 2436
Delta R.T. -0.004 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

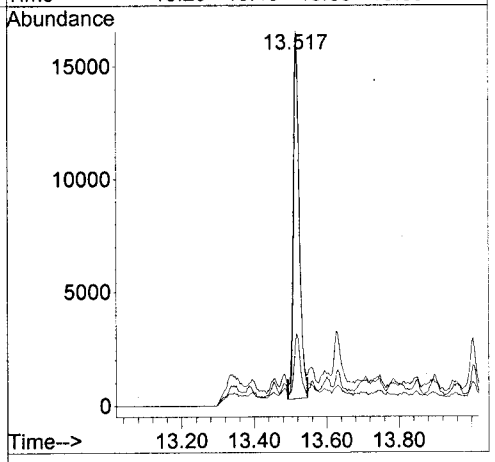
Tgt Ion:166 Resp: 17529

Ion	Ratio	Lower	Upper
166	100		
165	103.2	70.8	110.8
167	19.6	0.0	34.3



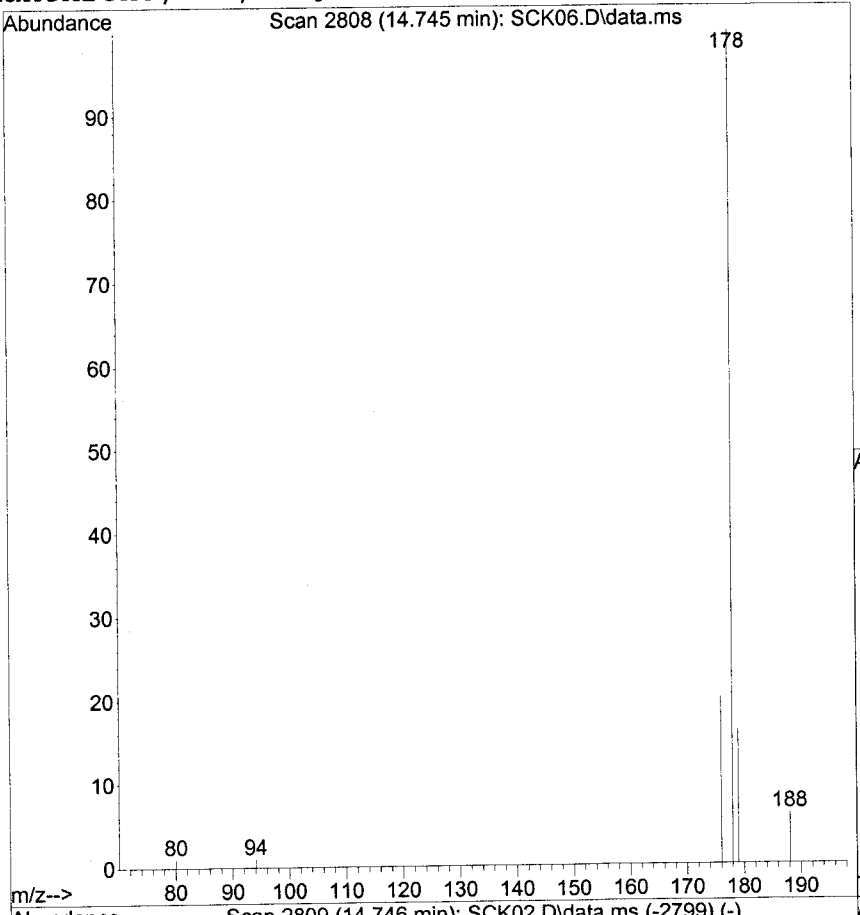
Ref





[Phenanthrene; 18; u]

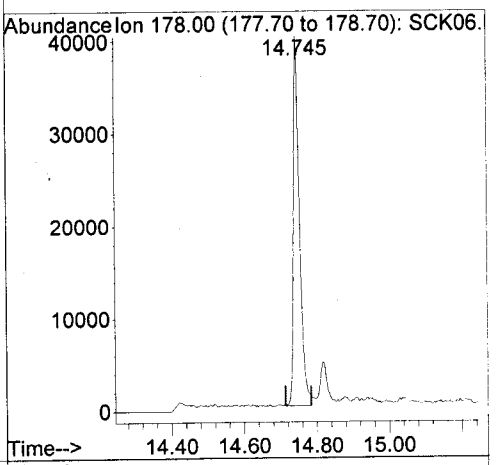
Raw



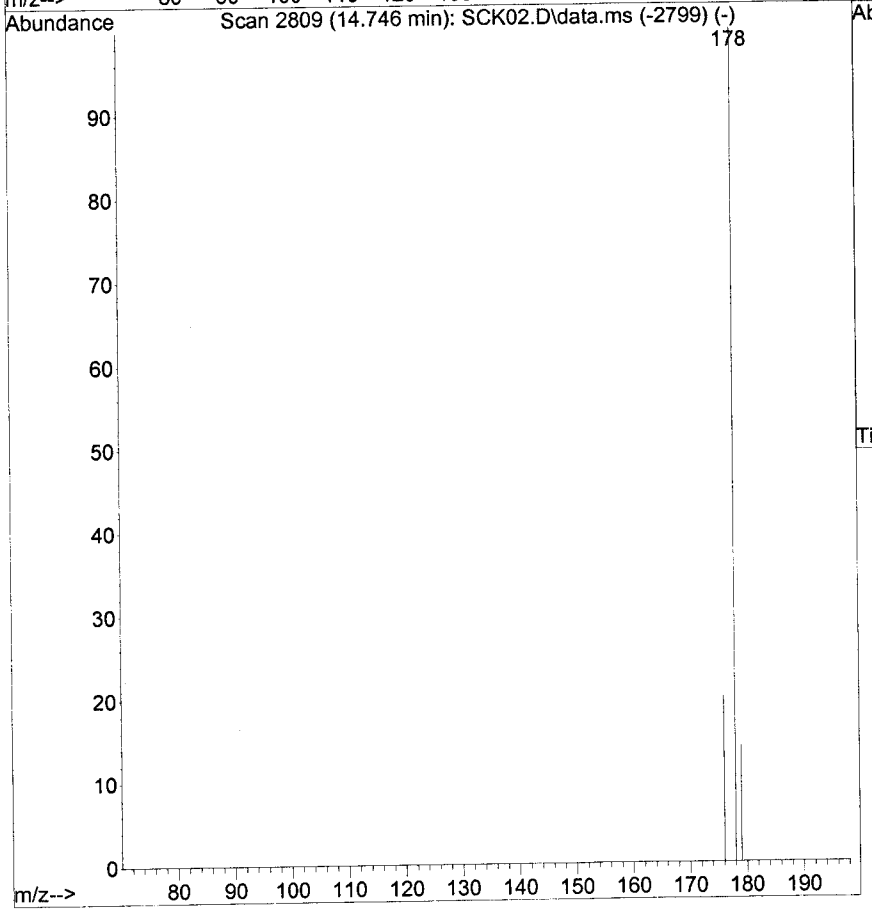
#14
Phenanthrene
Concen: 0.5359 ug/mL
RT: 14.745 min Scan# 2808
Delta R.T. -0.000 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

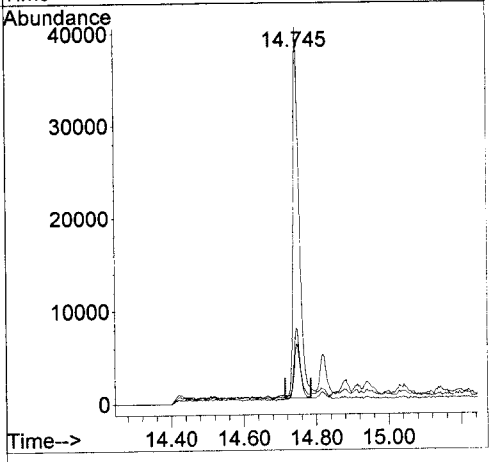
Tgt Ion:178 Resp: 46924

Ion	Ratio	Lower	Upper
178	100		
179	15.8	0.0	36.0
176	20.0	0.7	40.7



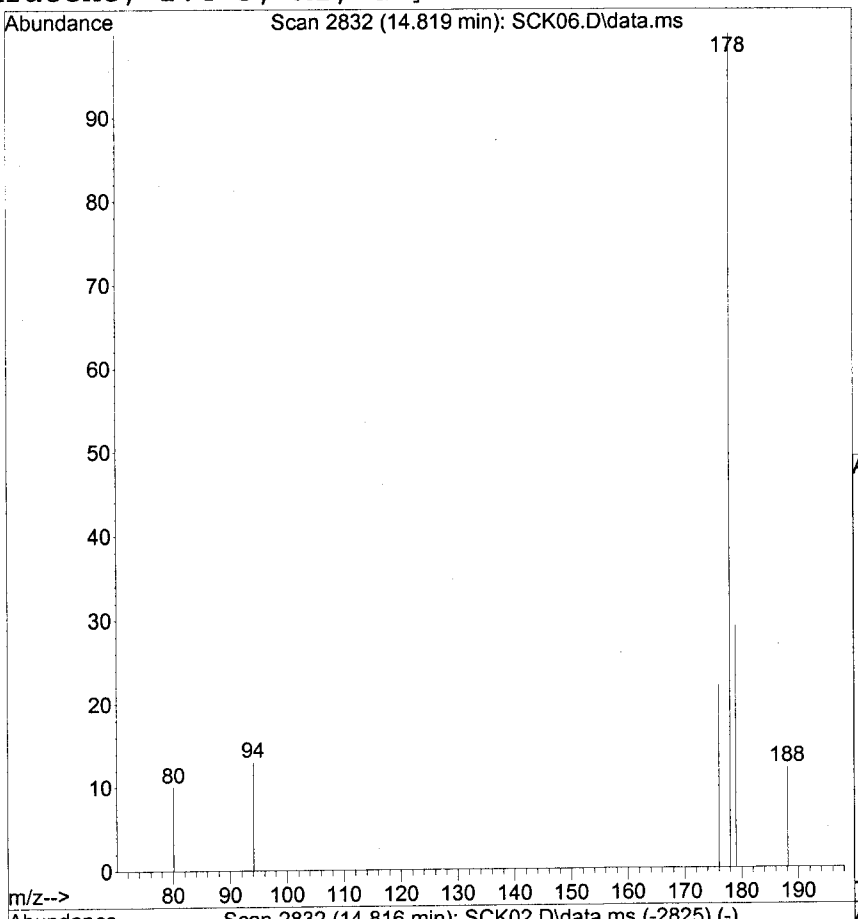
Ref





[Anthracene; 2.4 J; MI; u]

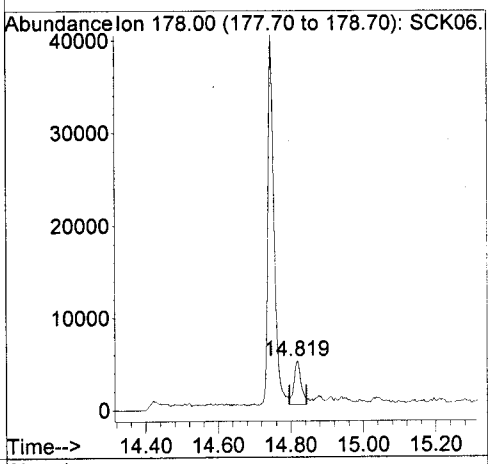
Raw



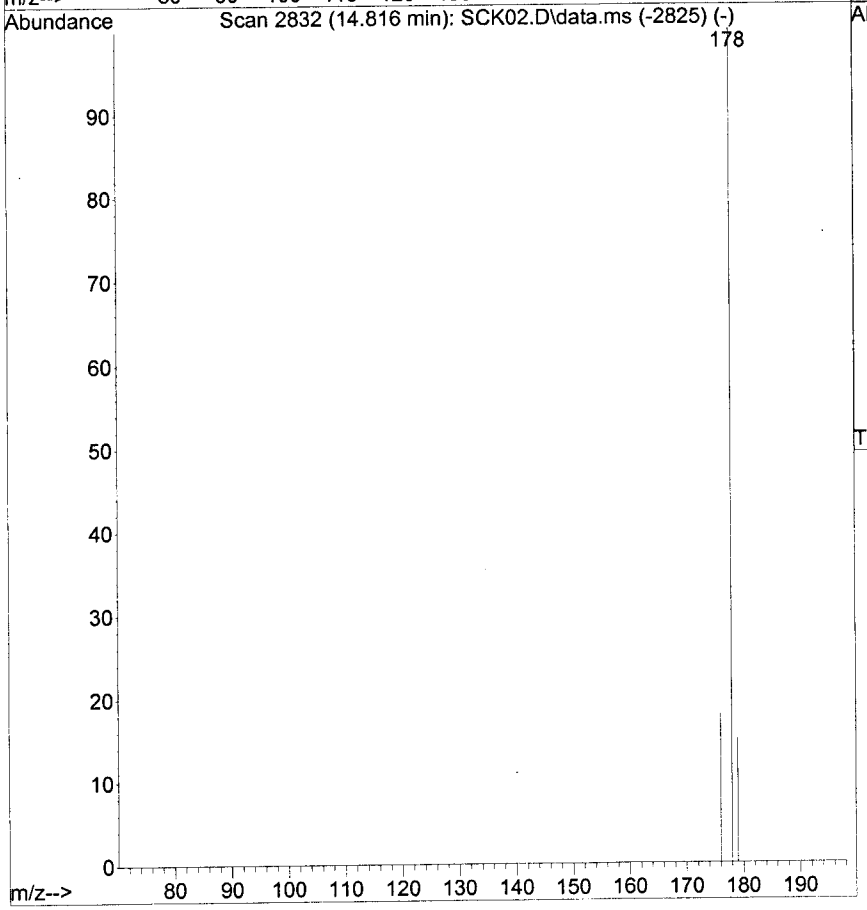
#15
Anthracene
Concen: 0.0723 ug/mL m
RT: 14.819 min Scan# 2832
Delta R.T. 0.003 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

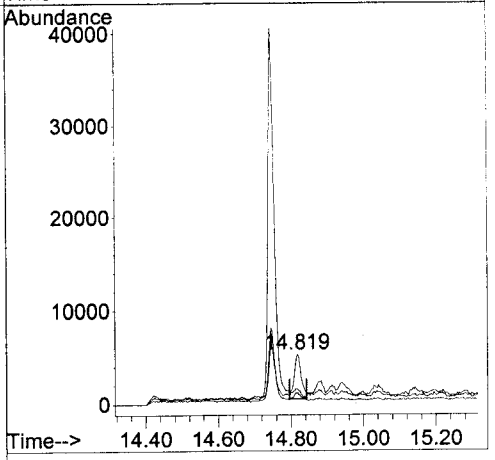
Tgt Ion:178 Resp: 6449

Ion	Ratio	Lower	Upper
178	100		
179	26.0	0.0	38.7
176	19.8	0.0	39.5



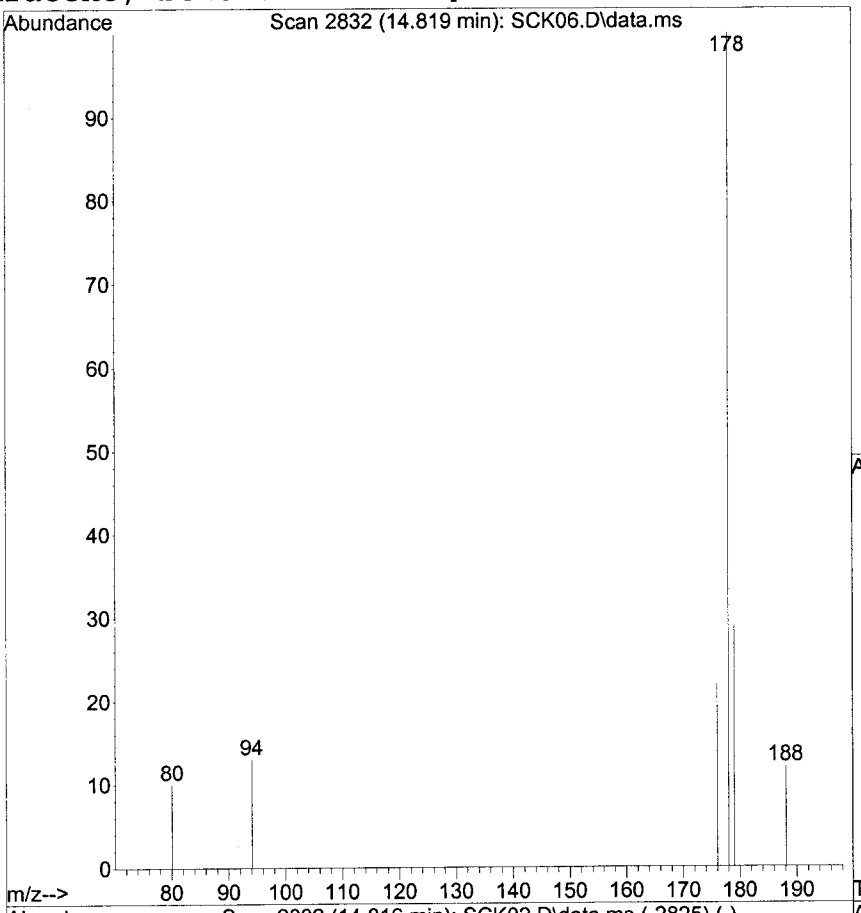
Ref





[Anthracene; before version]

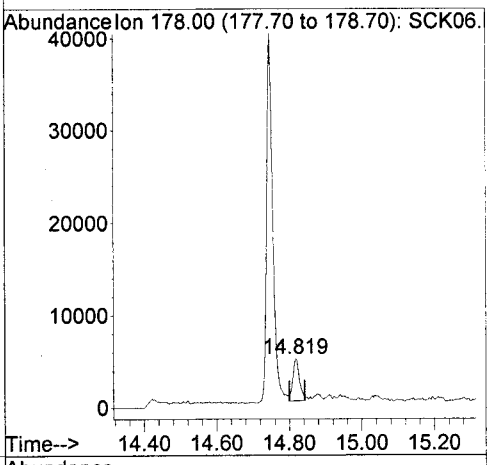
Raw



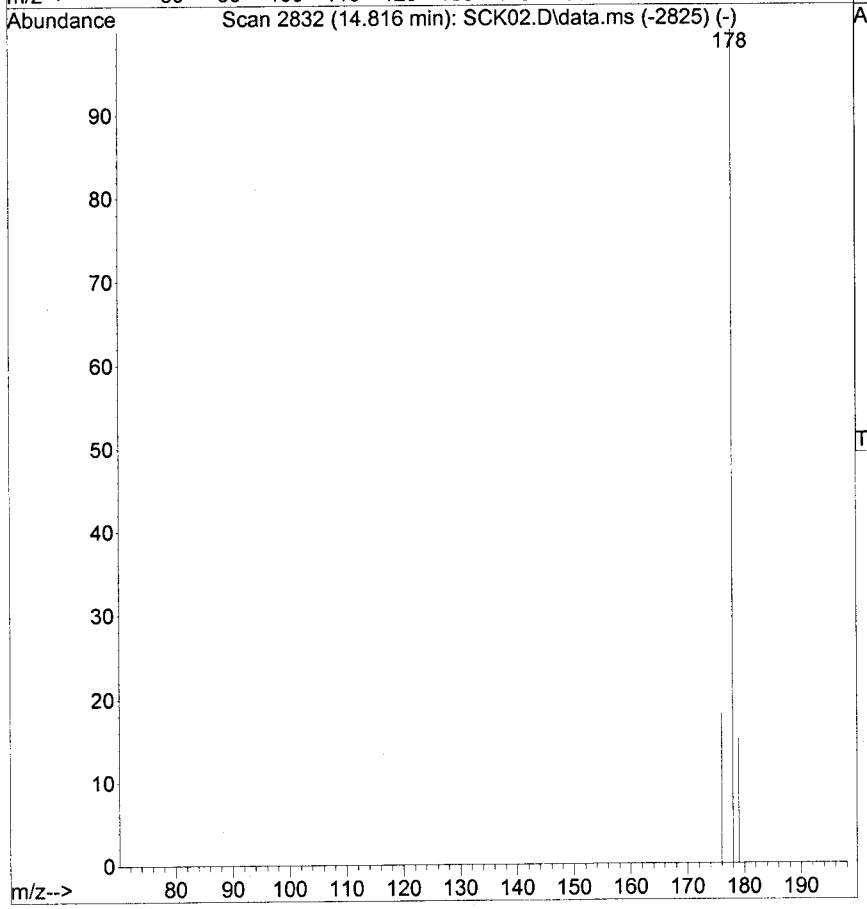
#15
Anthracene
Concen: 0.0642 ug/mL
RT: 14.819 min Scan# 2832
Delta R.T. 0.003 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

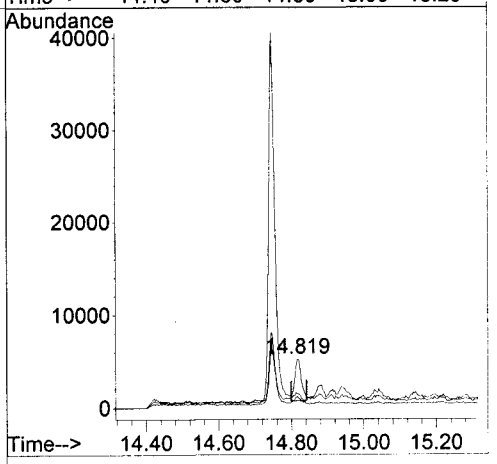
Tgt Ion:178 Resp: 5726

Ion	Ratio	Lower	Upper
178	100		
179	29.2	0.0	38.7
176	22.2	0.0	39.5



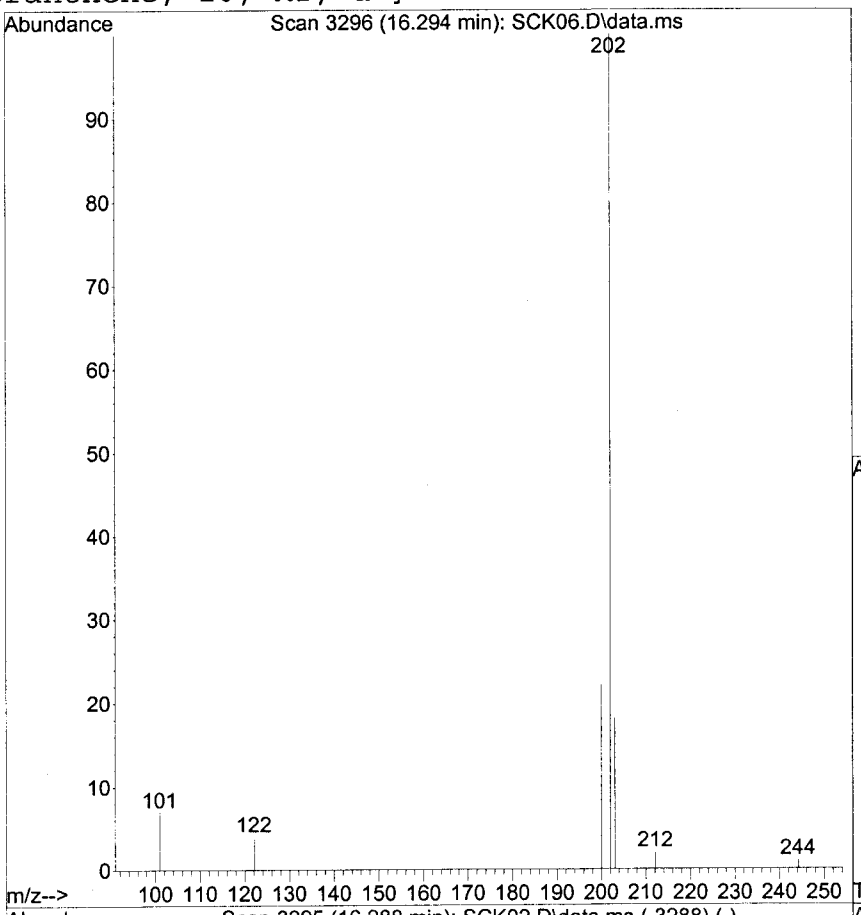
Ref





[Fluoranthene; 10; MI; u]

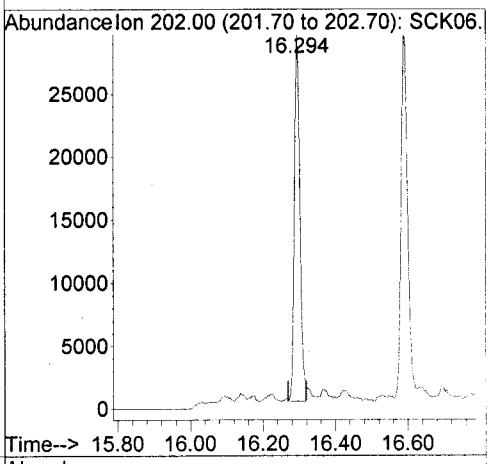
Raw



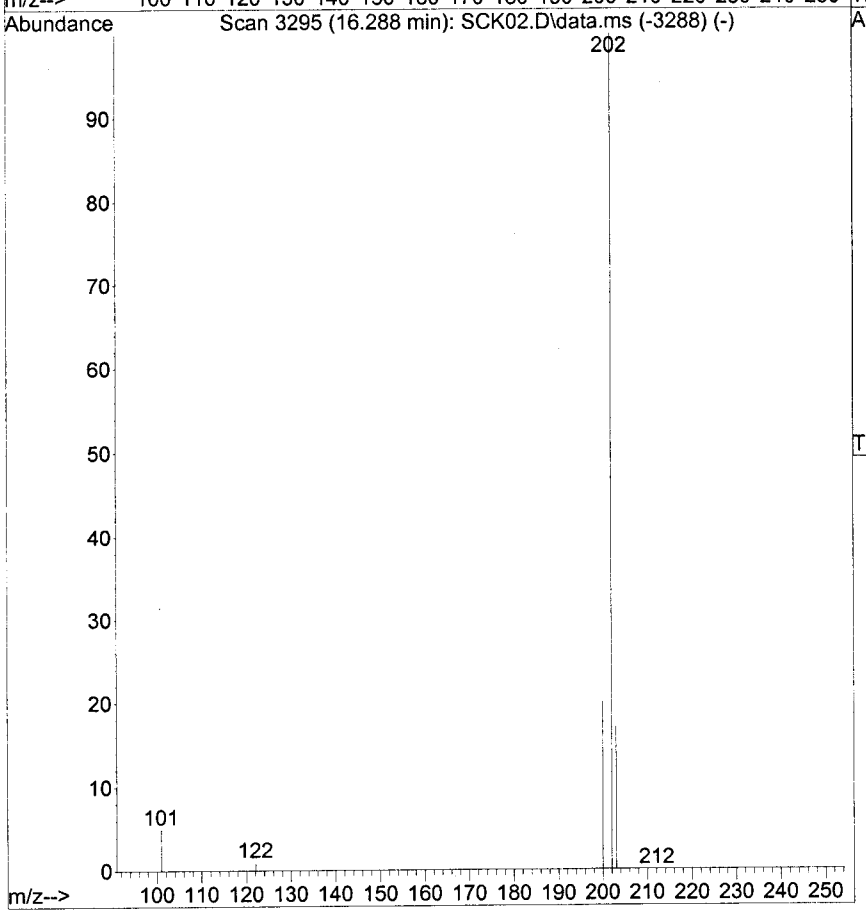
#16
Fluoranthene
Concen: 0.3030 ug/mL m
RT: 16.294 min Scan# 3296
Delta R.T. 0.005 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

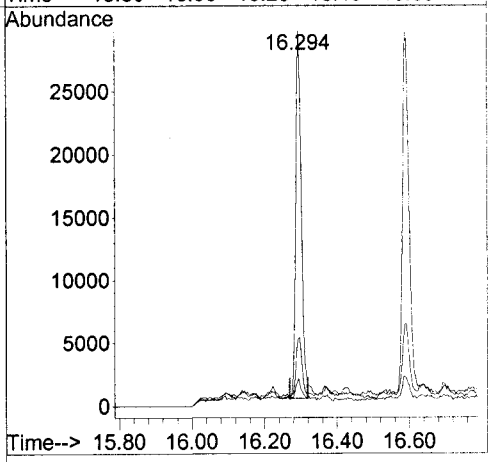
Tgt Ion:202 Resp: 31087

Ion	Ratio	Lower	Upper
202	100		
101	7.5	0.0	30.0
203	18.3	0.0	38.2



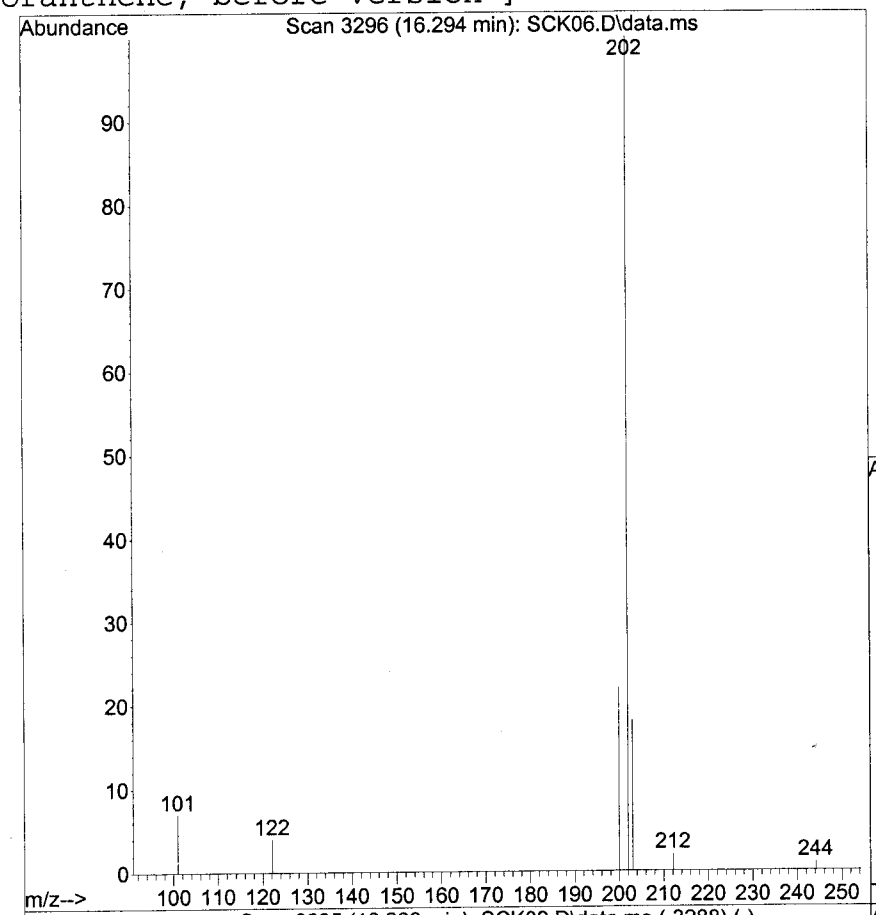
Ref





[Fluoranthene; before version]

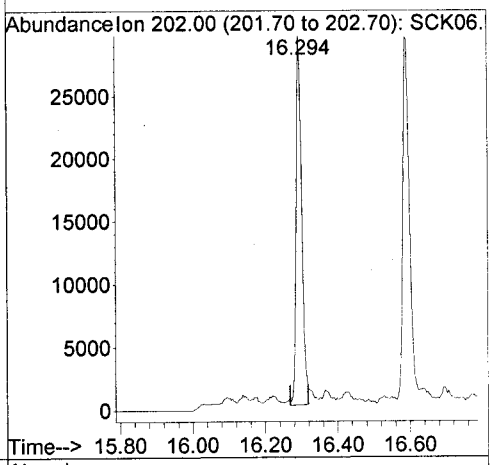
Raw



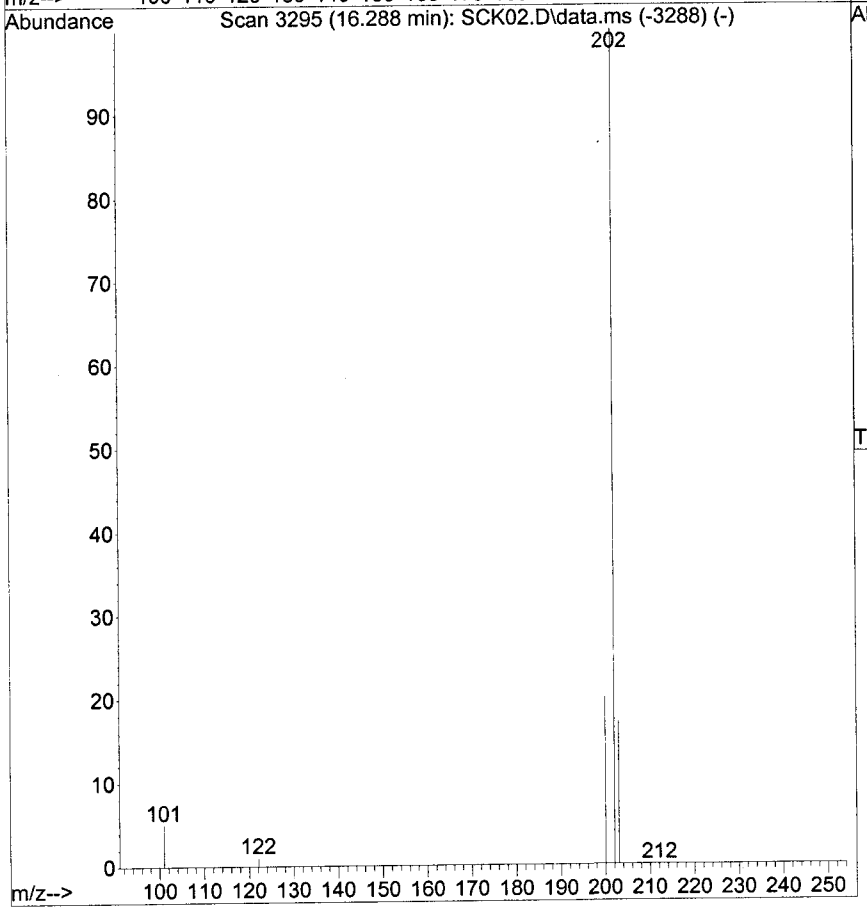
#16
Fluoranthene
Concen: 0.3084 ug/mL
RT: 16.294 min Scan# 3296
Delta R.T. 0.005 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

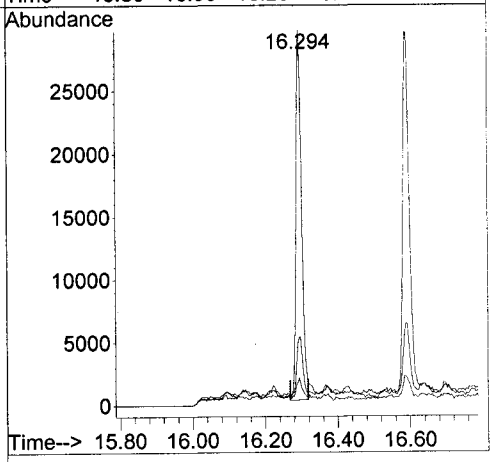
Tgt Ion:202 Resp: 31636

Ion	Ratio	Lower	Upper
202	100		
101	7.3	0.0	30.0
203	18.0	0.0	38.2



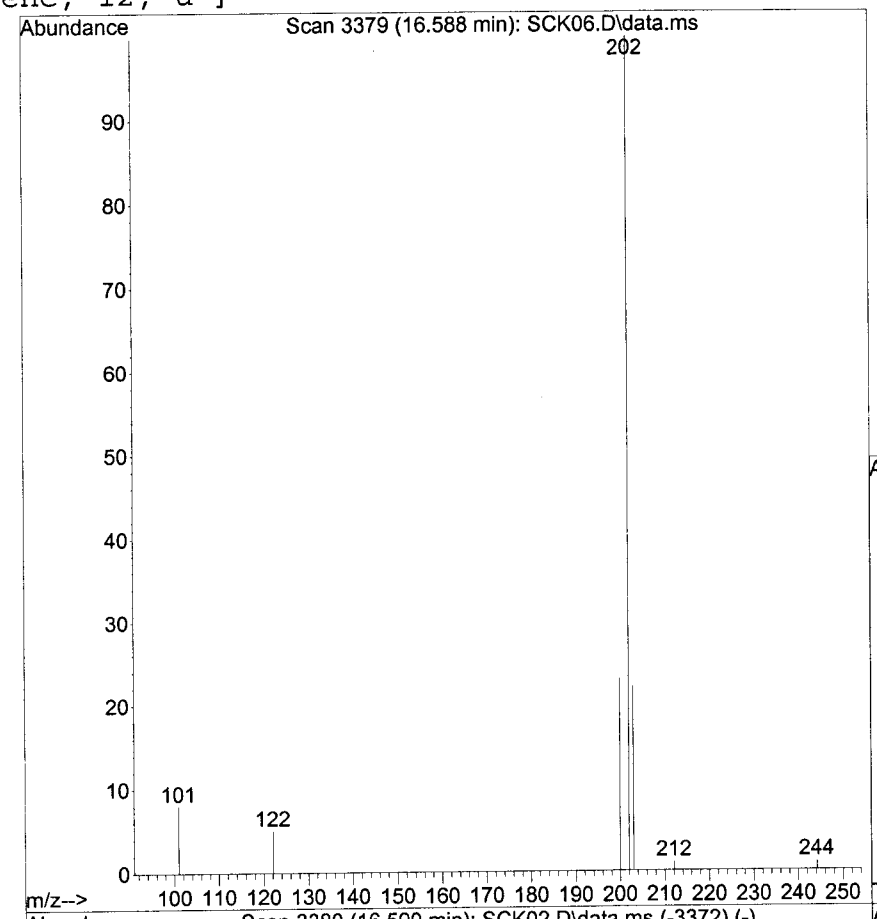
Ref





[Pyrene; 12; u]

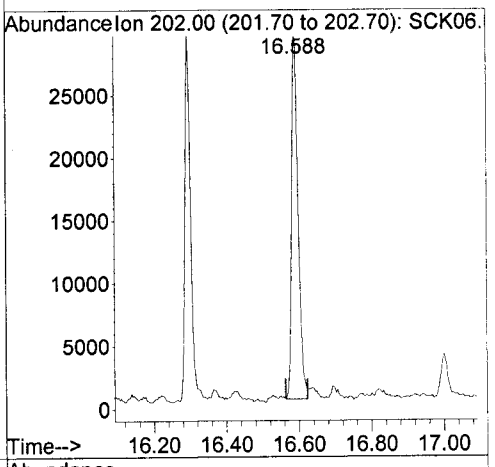
Raw



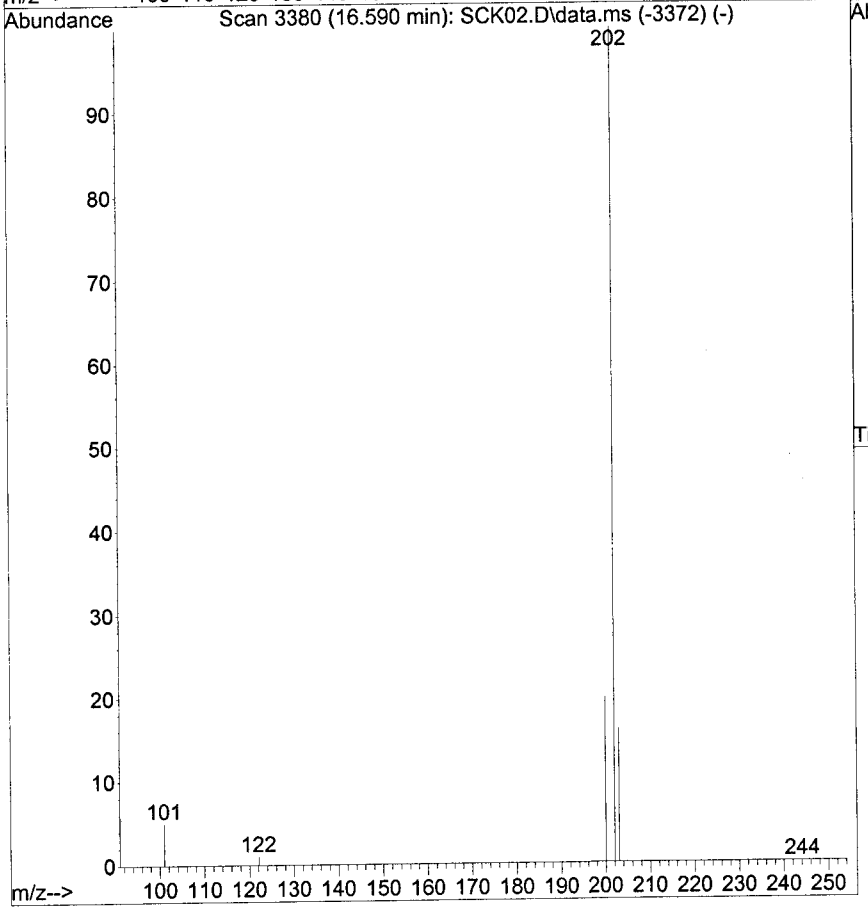
#18
Pyrene
Concen: 0.3537 ug/mL
RT: 16.588 min Scan# 3379
Delta R.T. -0.002 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

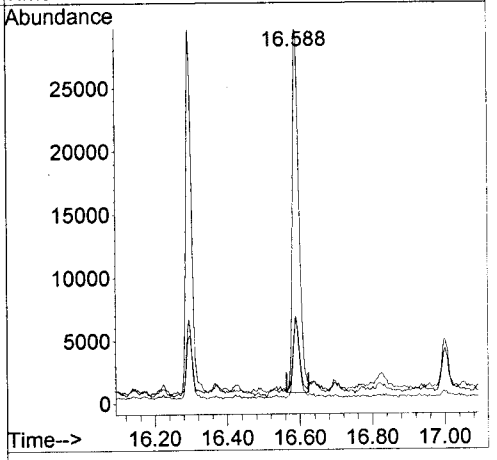
Tgt Ion:202 Resp: 36333

Ion	Ratio	Lower	Upper
202	100		
200	23.3	4.2	44.2
203	21.9	0.0	39.3



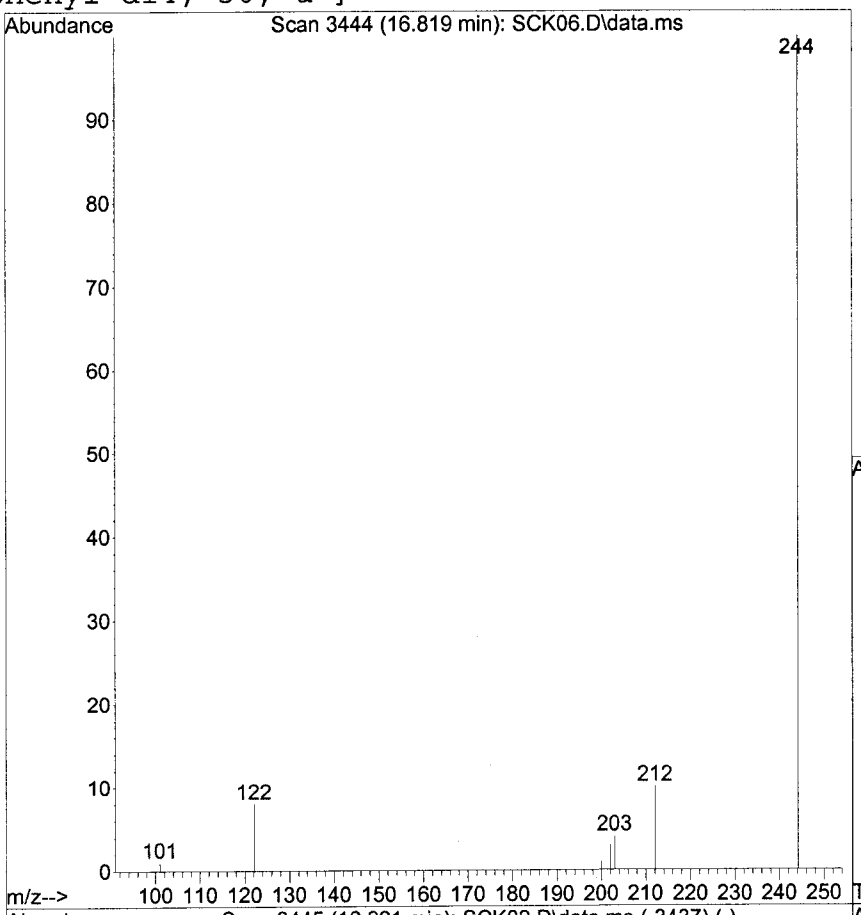
Ref





[Terphenyl-d14; 30; u]

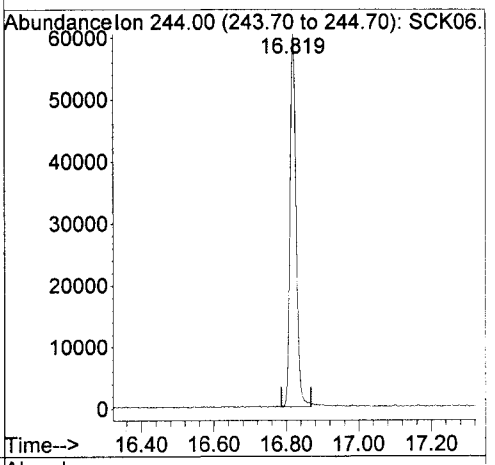
Raw



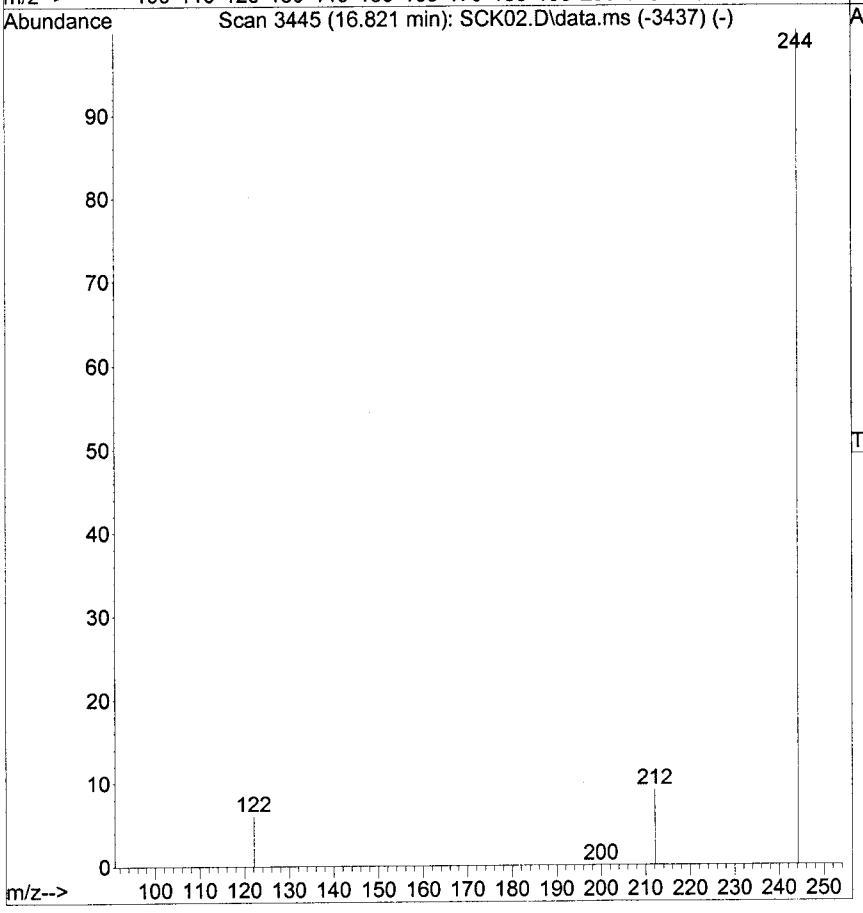
#19
Terphenyl-d14
Concen: 0.9139 ug/mL
RT: 16.819 min Scan# 3444
Delta R.T. -0.002 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

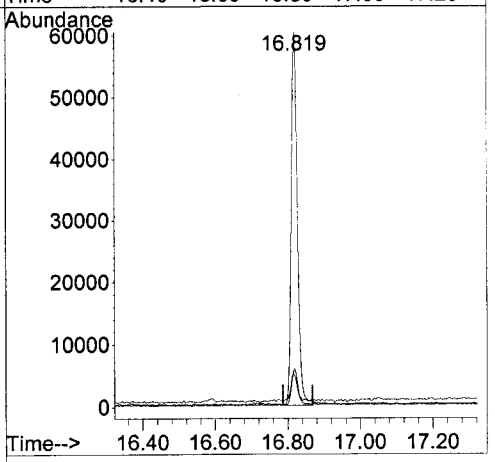
Tgt Ion:244 Resp: 70350

Ion	Ratio	Lower	Upper
244	100		
122	8.3	0.0	30.0
212	10.2	0.0	29.1



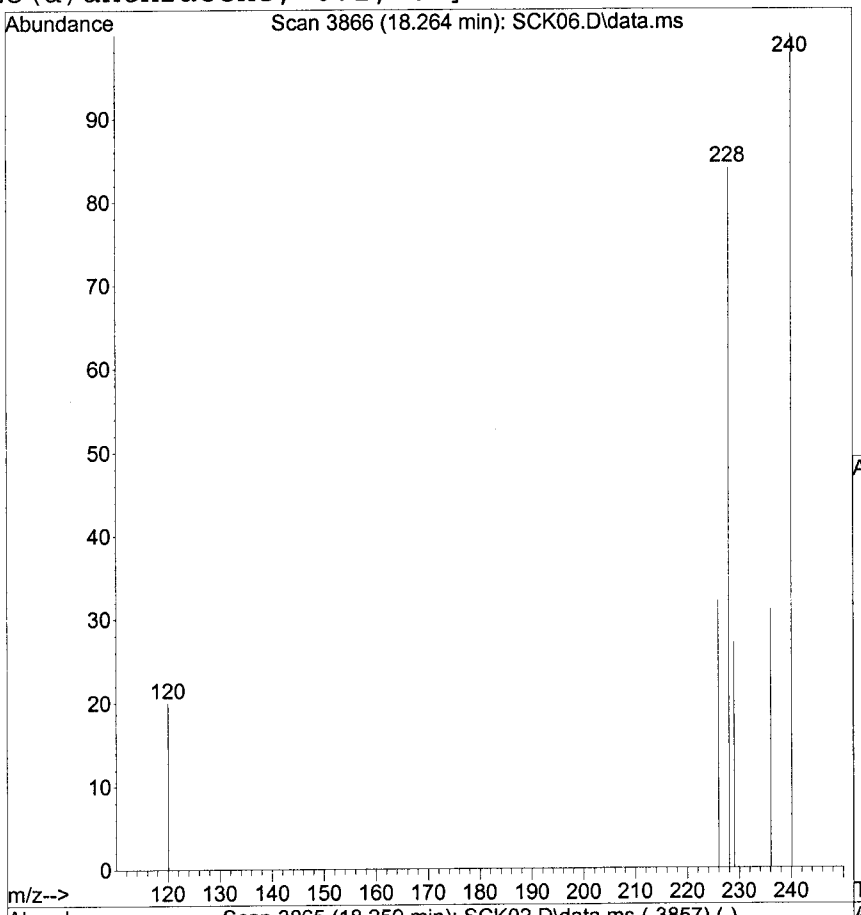
Ref





[Benzo(a)anthracene; 6.1; u]

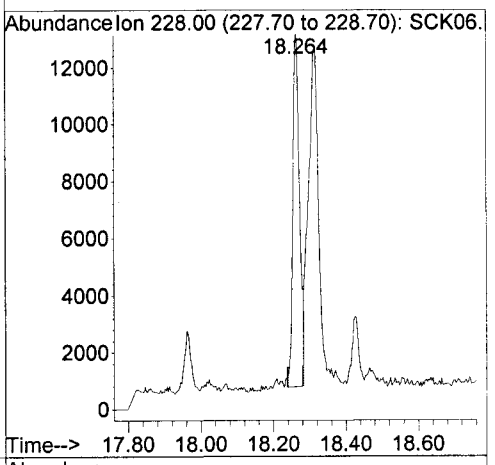
Raw



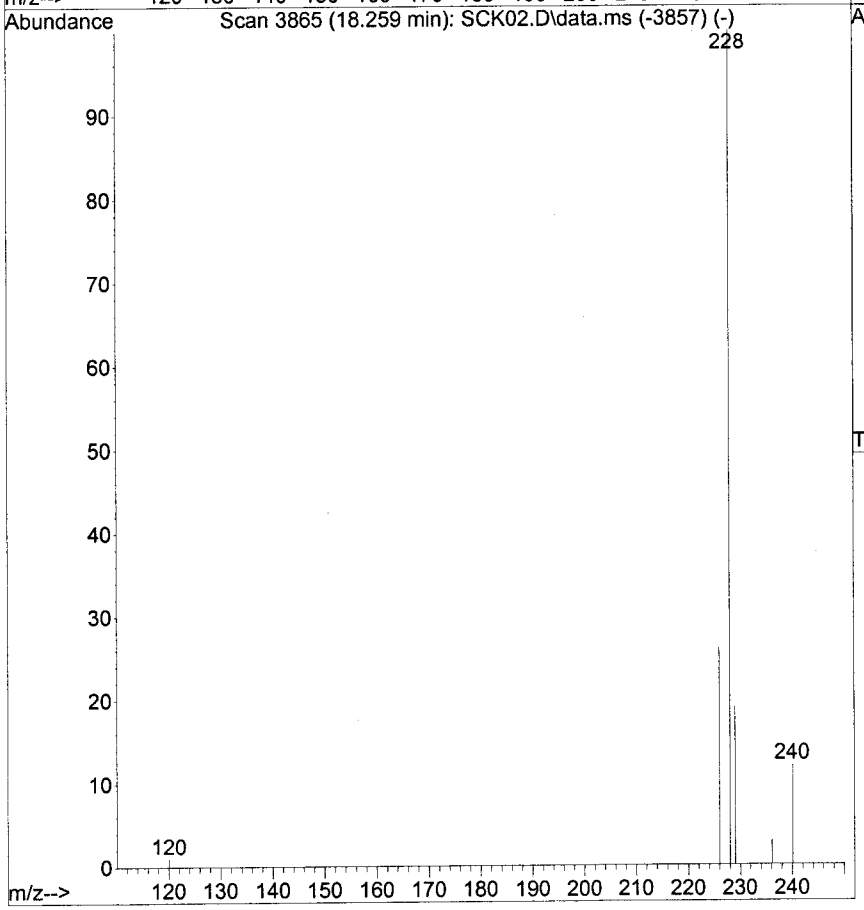
#20
Benzo(a)anthracene
Concen: 0.1841 ug/mL
RT: 18.264 min Scan# 3866
Delta R.T. 0.005 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

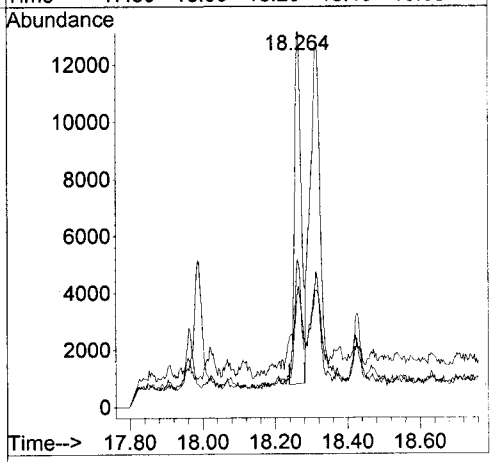
Tgt Ion:228 Resp: 16061

Ion	Ratio	Lower	Upper
228	100		
229	32.1	1.1	41.1
226	38.4	8.4	48.4



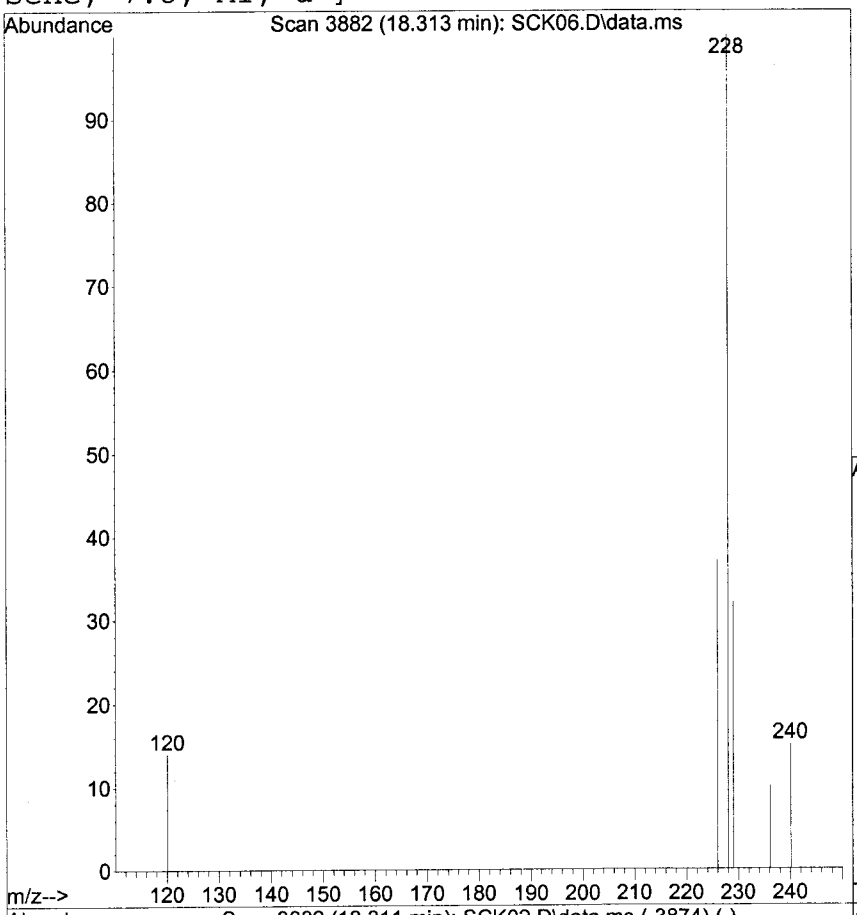
Ref





[Chrysene; 7.8; MI; u]

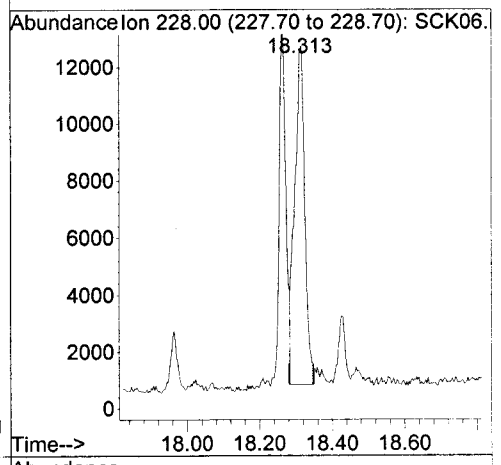
Raw



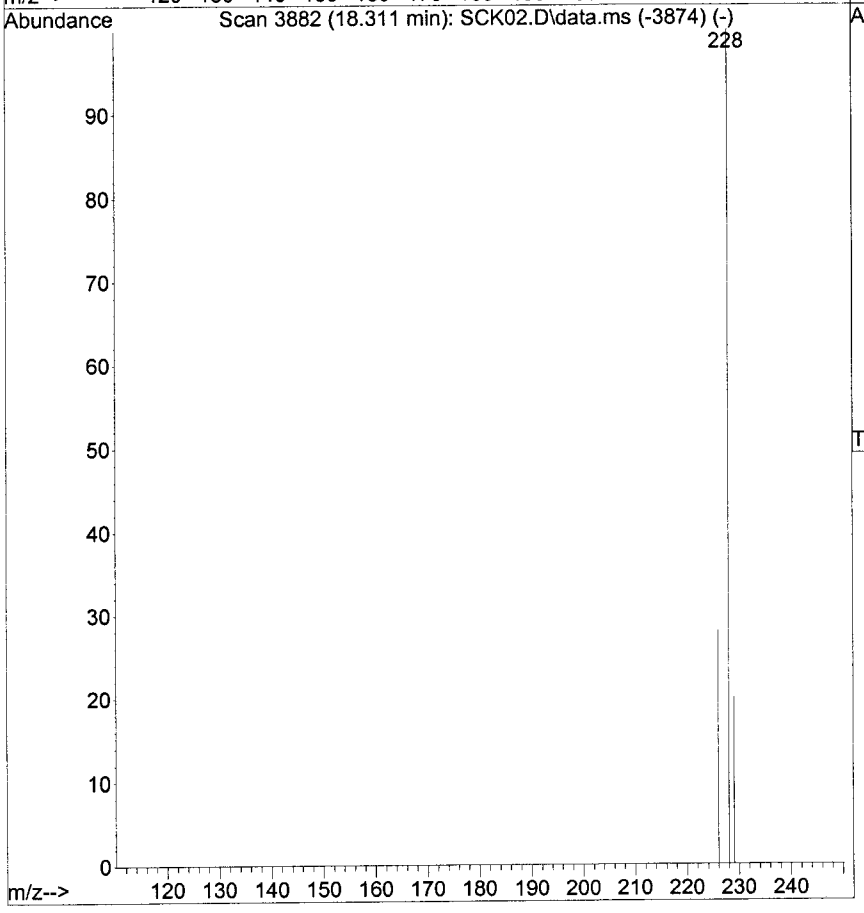
#21
Chrysene
Concen: 0.2348 ug/mL m
RT: 18.313 min Scan# 3882
Delta R.T. 0.002 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

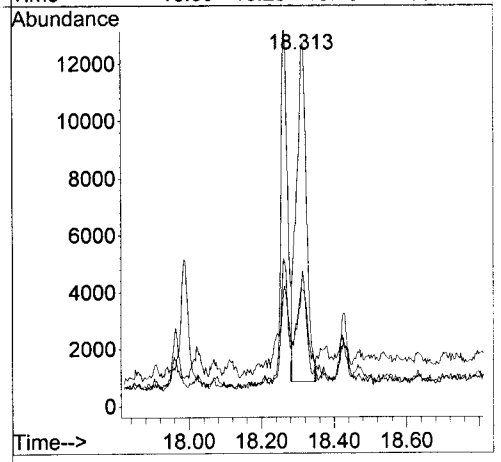
Tgt Ion:228 Resp: 23055

Ion	Ratio	Lower	Upper
228	100		
226	36.4	10.9	50.9
229	31.2	0.5	40.5



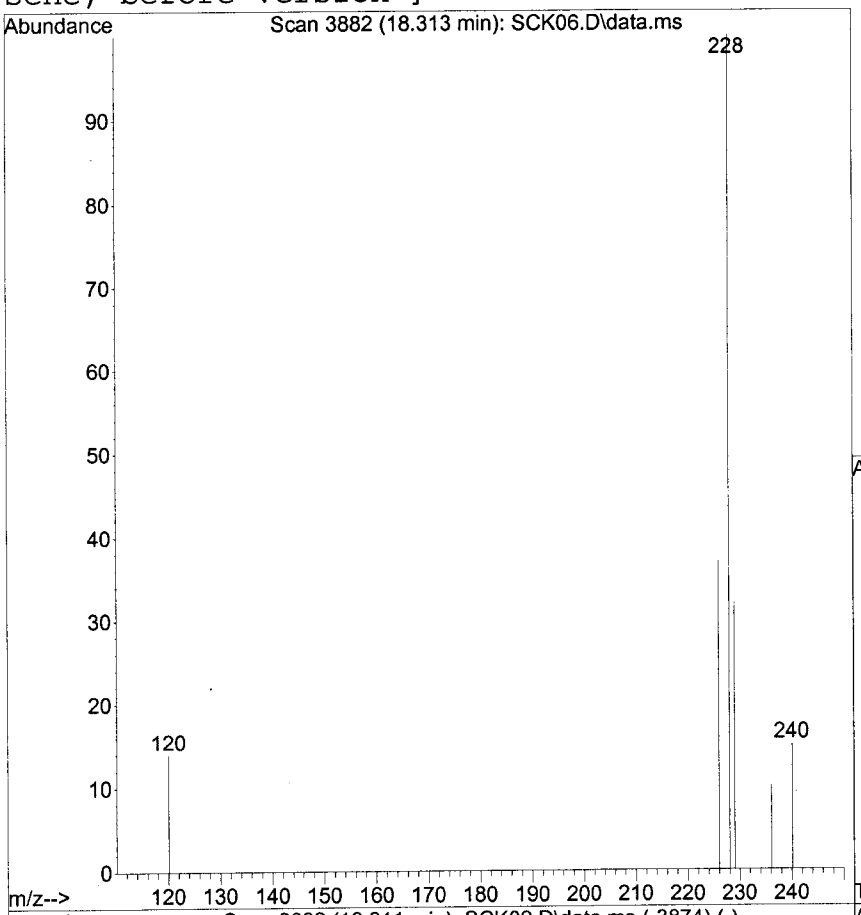
Ref





[Chrysene; before version]

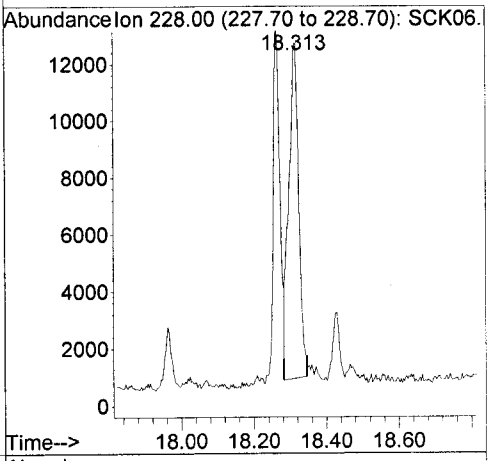
Raw



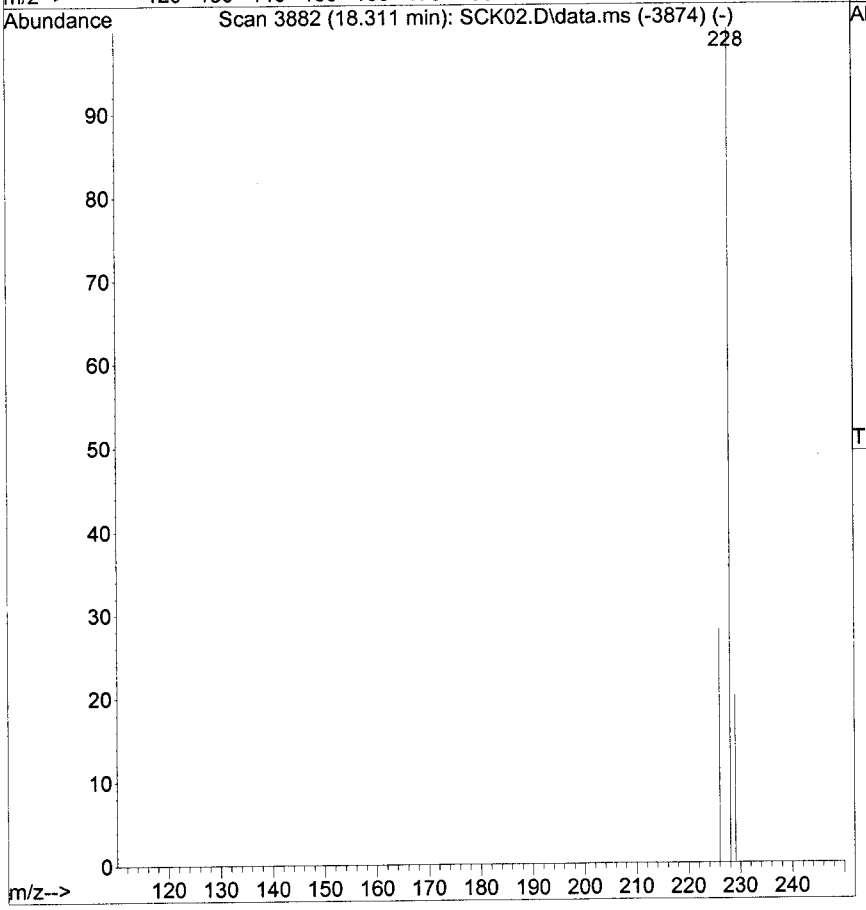
#21
Chrysene
Concen: 0.2290 ug/mL
RT: 18.313 min Scan# 3882
Delta R.T. 0.002 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

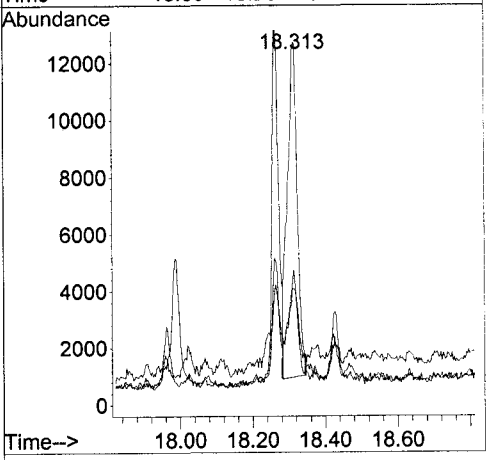
Tgt Ion:228 Resp: 22479

Ion	Ratio	Lower	Upper
228	100		
226	37.3	10.9	50.9
229	32.0	0.5	40.5



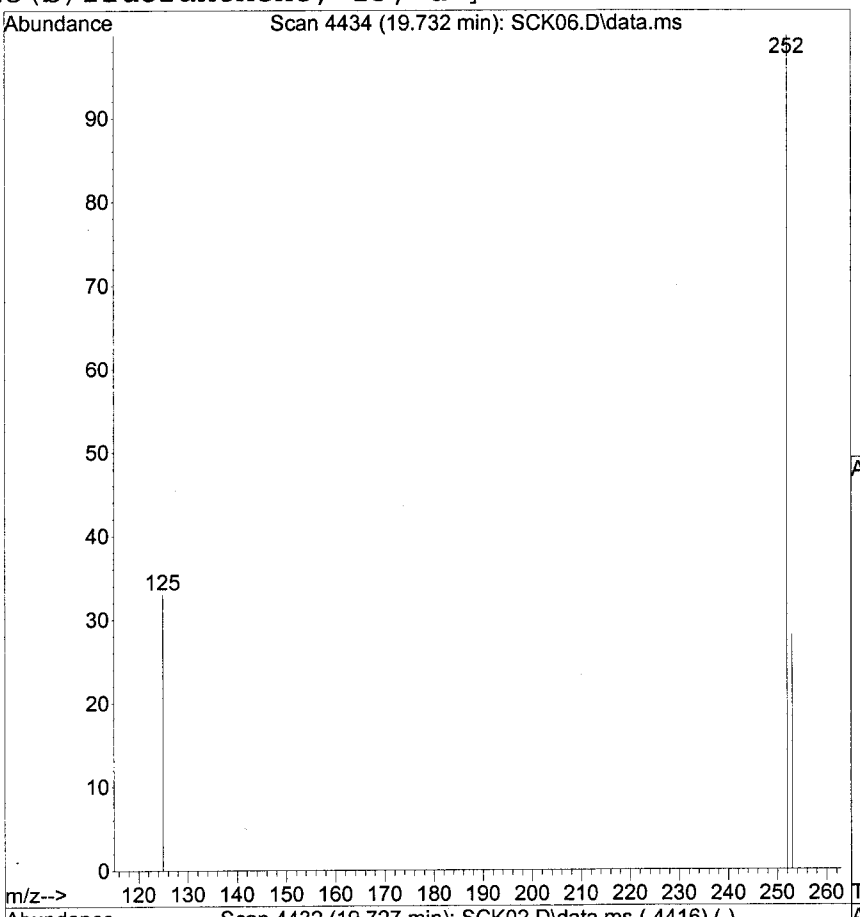
Ref





[Benzo(b)fluoranthene; 13; u]

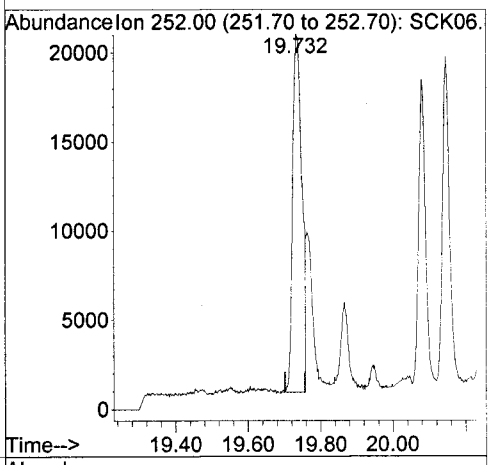
Raw



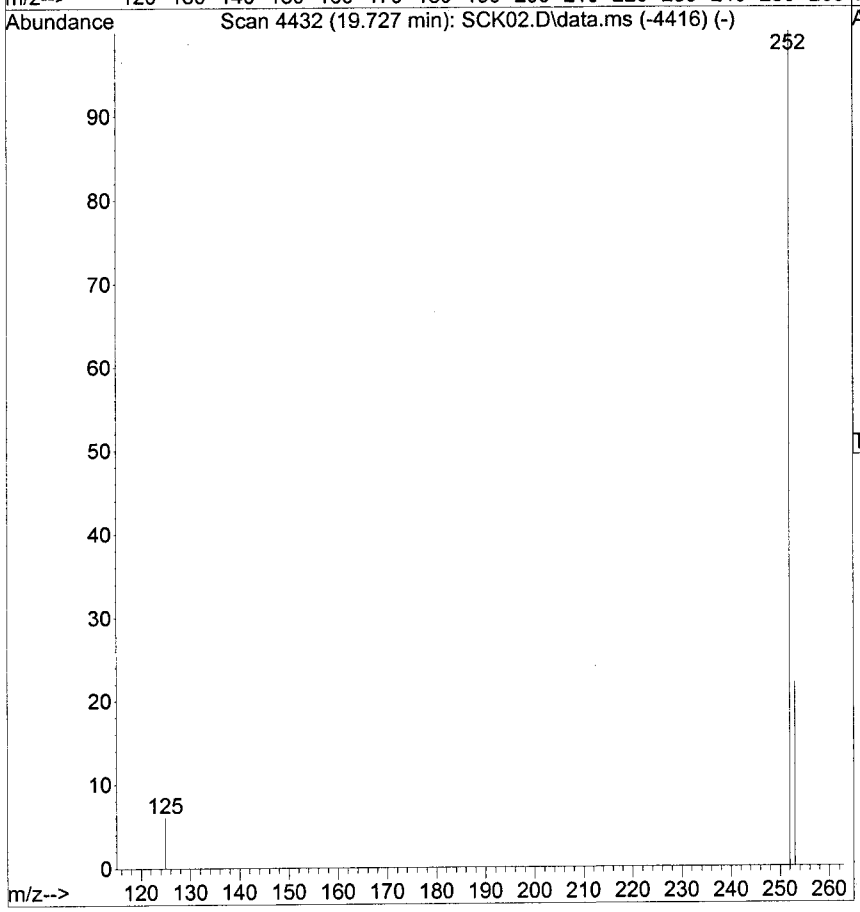
#23
Benzo(b)fluoranthene
Concen: 0.4046 ug/mL
RT: 19.732 min Scan# 4434
Delta R.T. 0.005 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

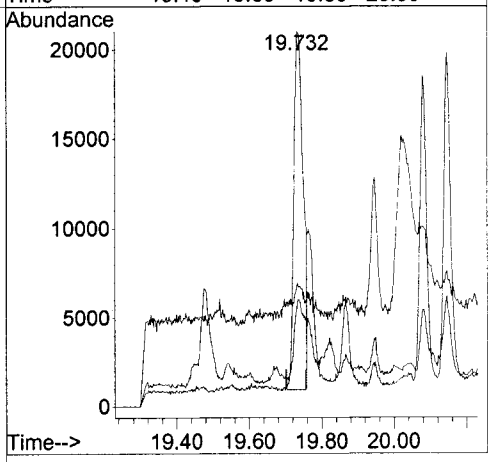
Tgt Ion:252 Resp: 35395

Ion	Ratio	Lower	Upper
252	100		
253	27.6	3.6	43.6
125	33.0	0.0	31.2#



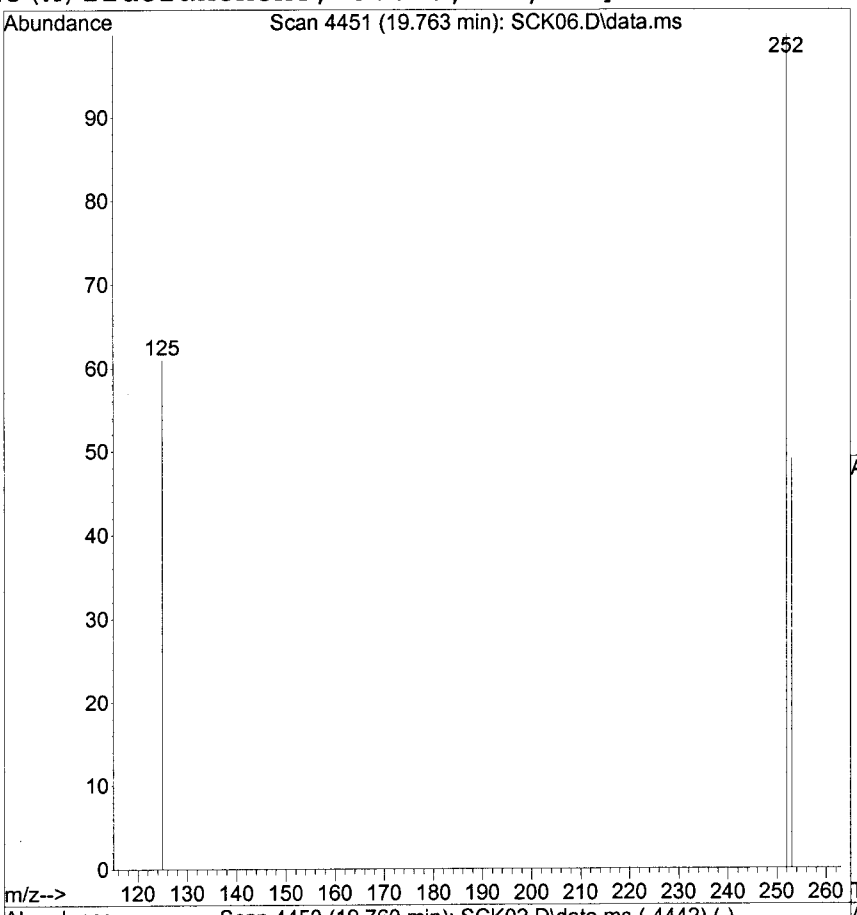
Ref





[Benzo(k)fluoranthene; 3.0 J; MI; u]

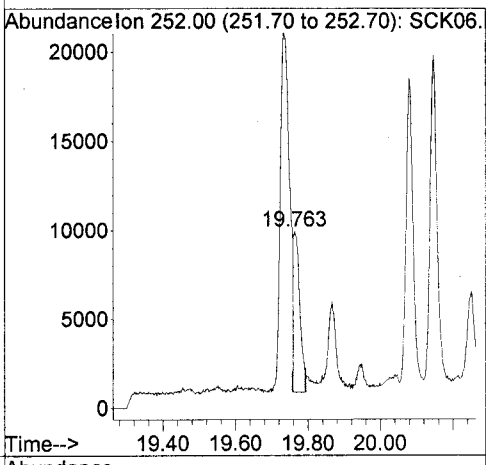
Raw



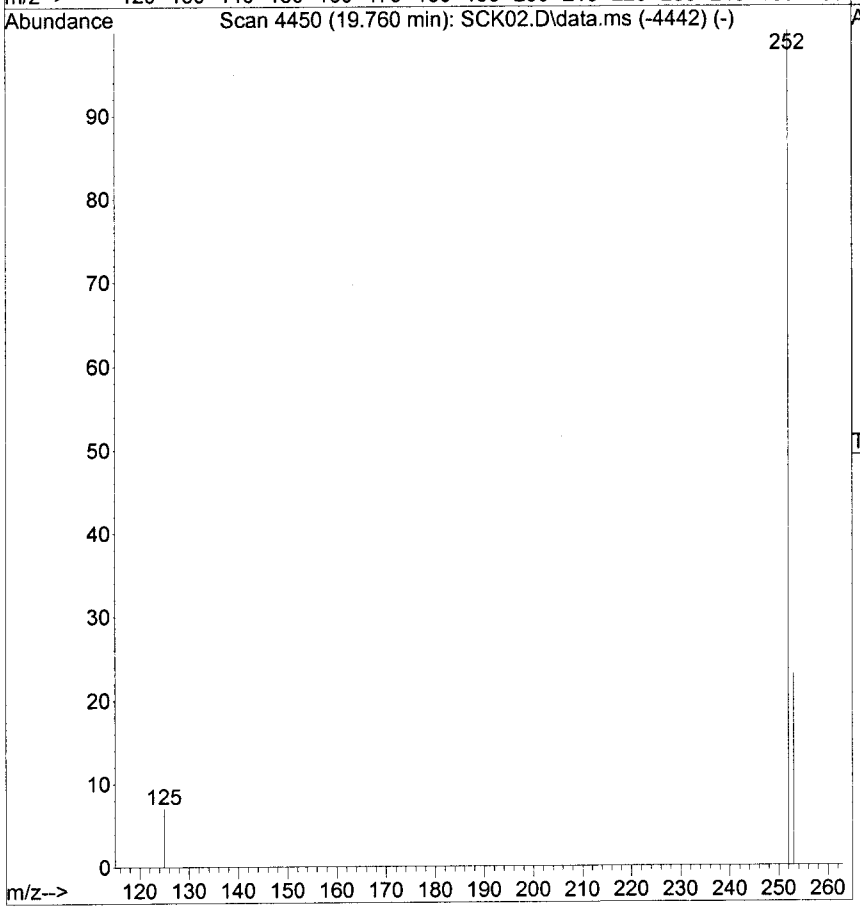
#24
Benzo(k)fluoranthene
Concen: 0.0905 ug/mL m
RT: 19.763 min Scan# 4451
Delta R.T. 0.003 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

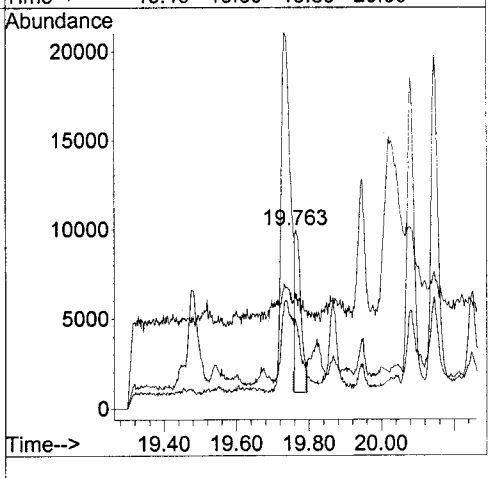
Tgt Ion:252 Resp: 10508

Ion	Ratio	Lower	Upper
252	100		
253	93.0	2.8	42.8#
125	111.2	0.0	31.7#



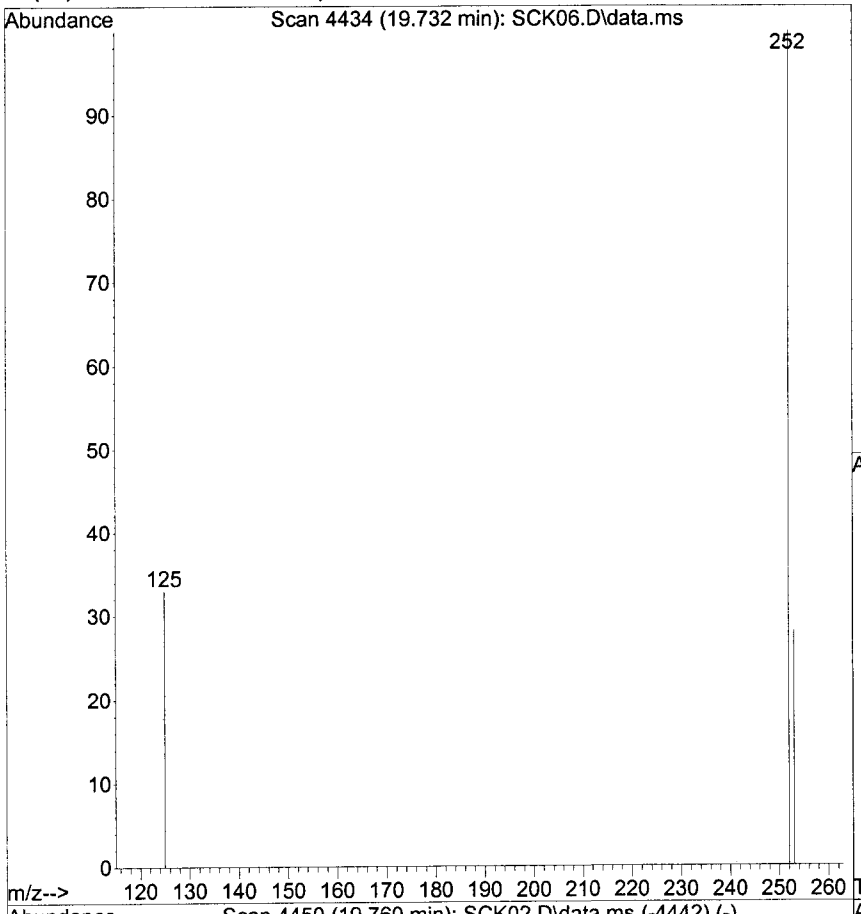
Ref





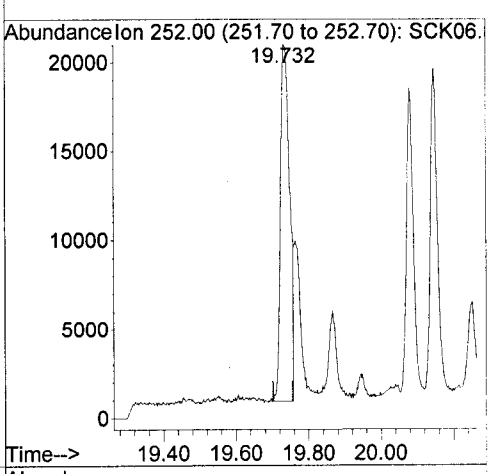
[Benzo(k)fluoranthene; before version]

Raw

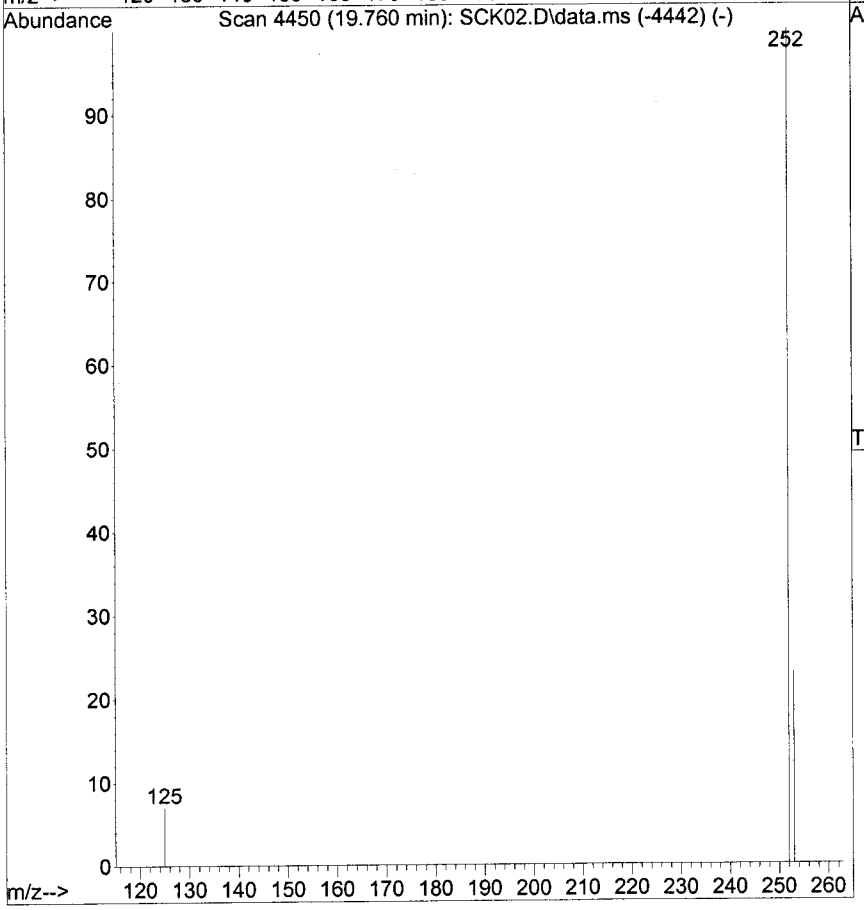


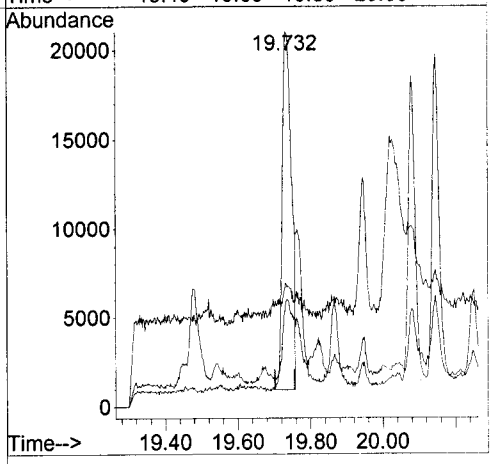
#24
Benzo(k)fluoranthene
Concen: 0.3048 ug/mL
RT: 19.732 min Scan# 4434
Delta R.T. -0.028 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

Tgt Ion:252	Resp:	35395	
Ion	Ratio	Lower	Upper
252	100		
253	27.6	2.8	42.8
125	33.0	0.0	31.7#



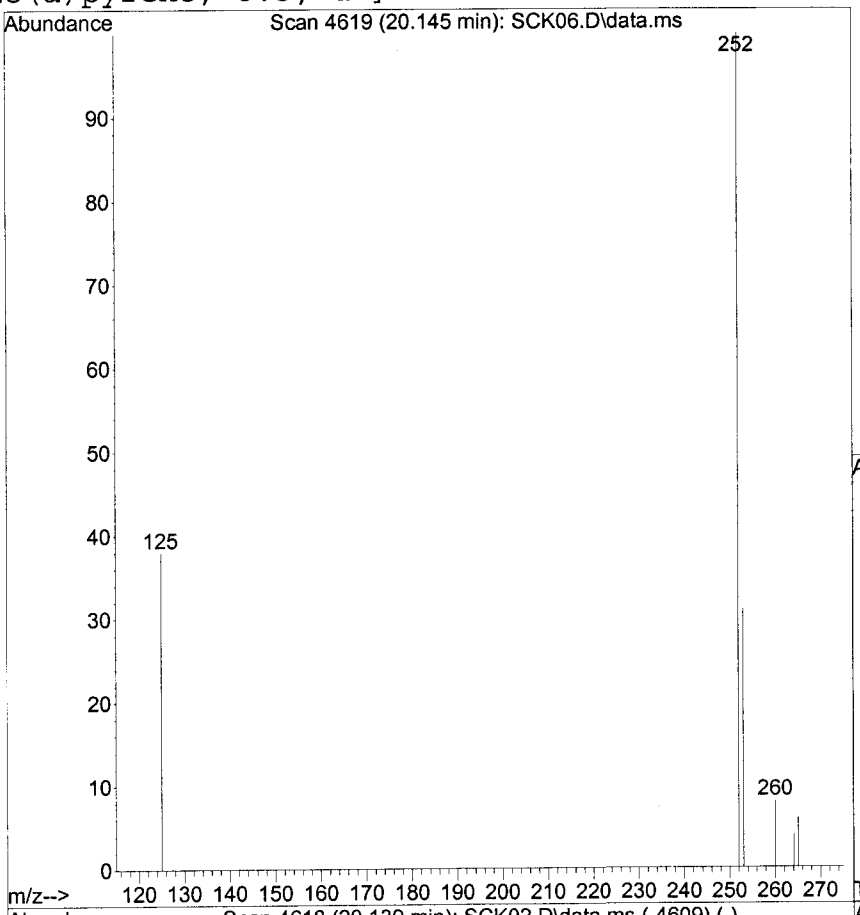
Ref





[Benzo(a)pyrene; 8.3; u]

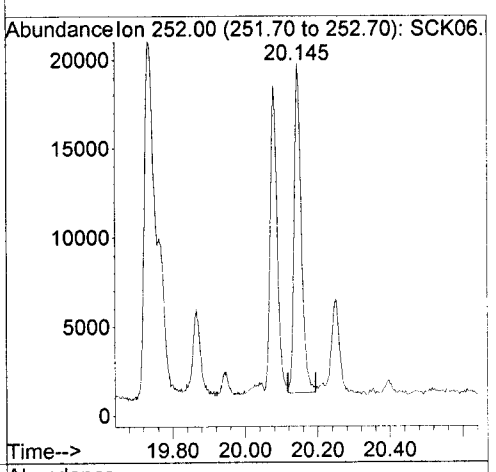
Raw



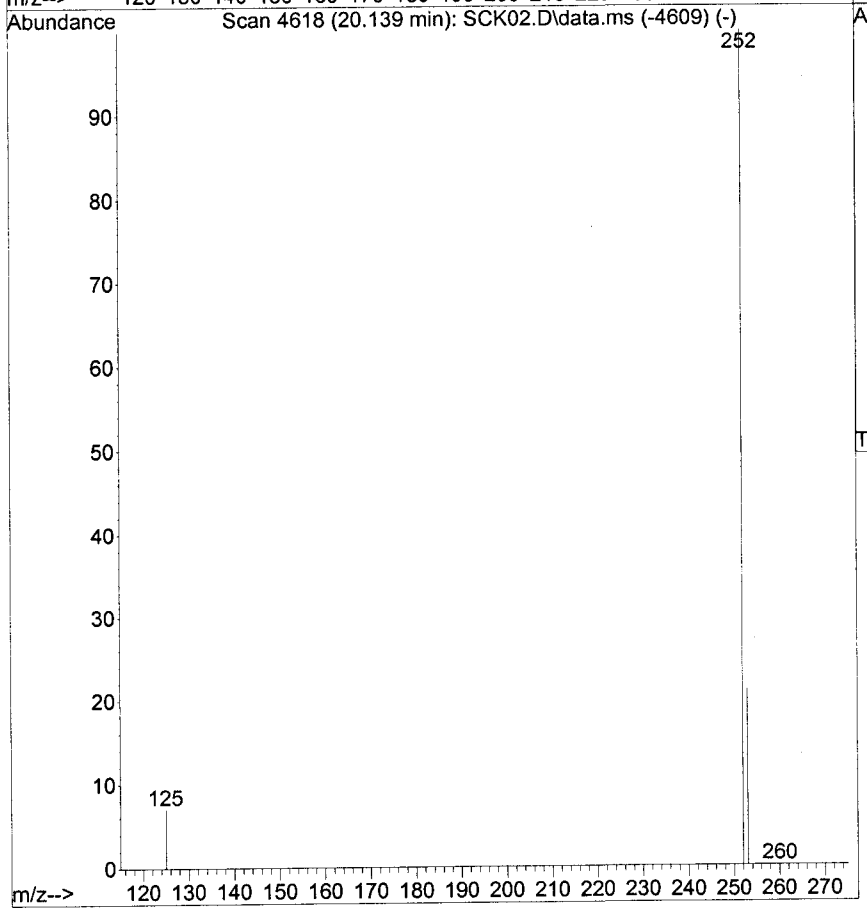
#25
Benzo(a)pyrene
Concen: 0.2493 ug/mL
RT: 20.145 min Scan# 4619
Delta R.T. 0.006 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

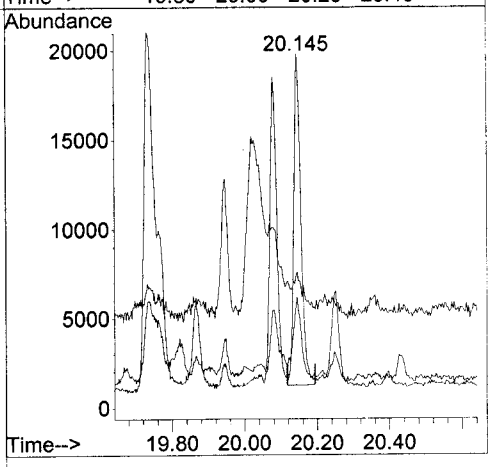
Tgt Ion:252 Resp: 25239

Ion	Ratio	Lower	Upper
252	100		
253	31.3	4.8	44.8
125	38.4	0.0	32.3#



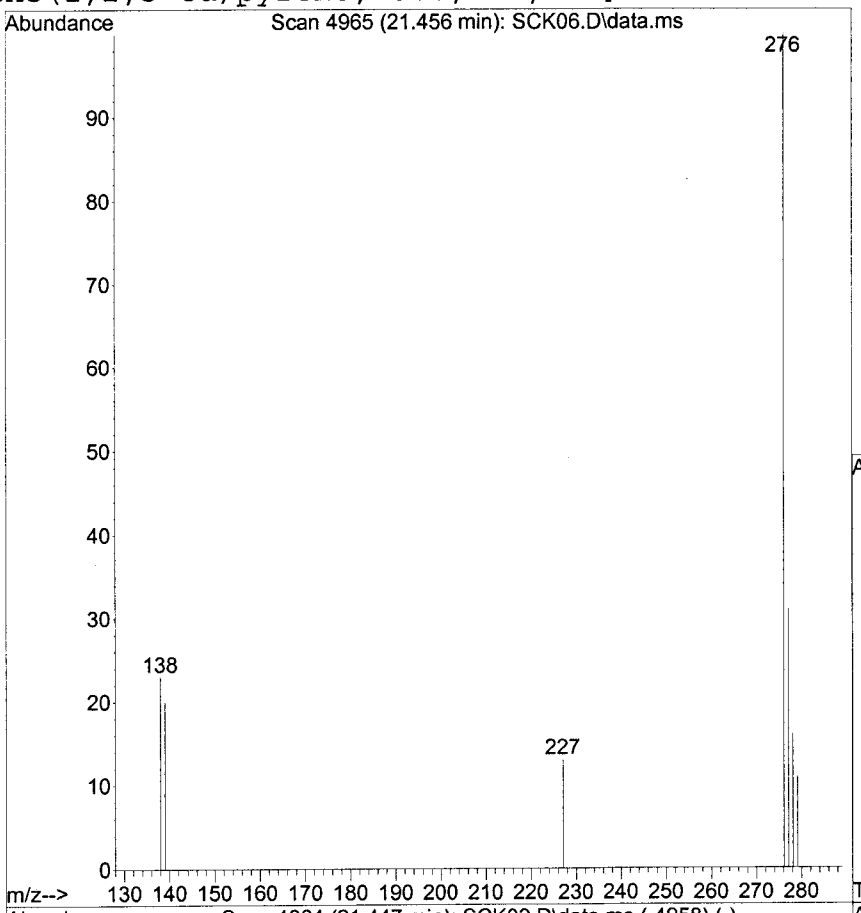
Ref





[Indeno(1,2,3-cd)pyrene; 8.8; MI; u]

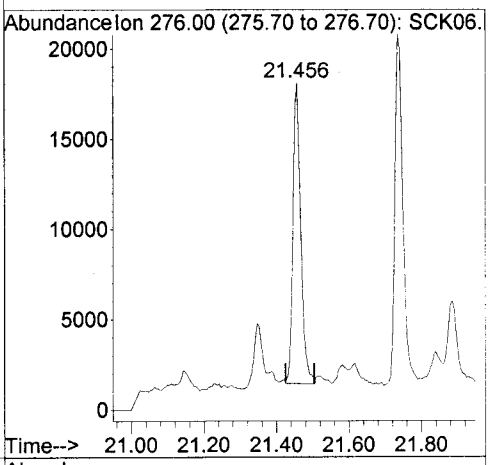
Raw



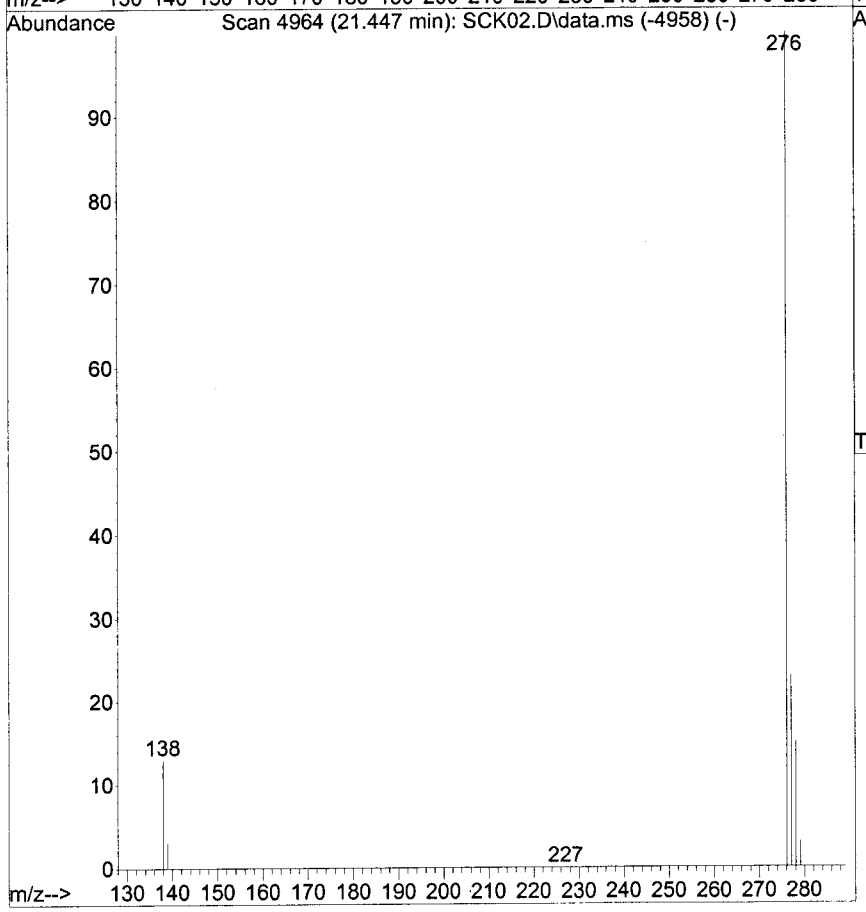
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.2665 ug/mL m
RT: 21.456 min Scan# 4965
Delta R.T. 0.010 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

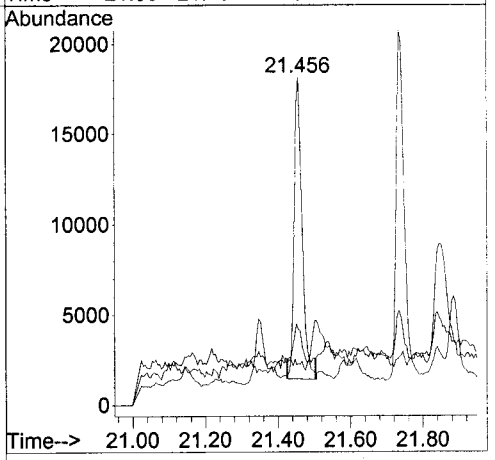
Tgt Ion:276 Resp: 25077

Ion	Ratio	Lower	Upper
276	100		
138	22.2	2.0	42.0
227	12.1	0.0	26.7



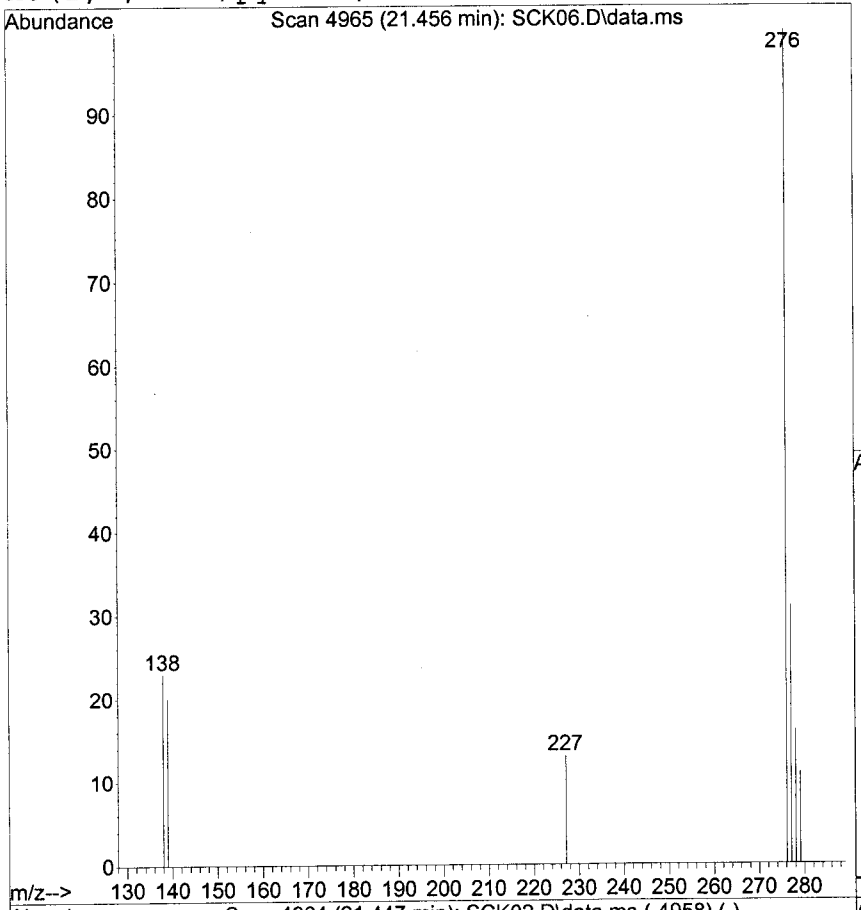
Ref





[Indeno(1,2,3-cd)pyrene; before version]

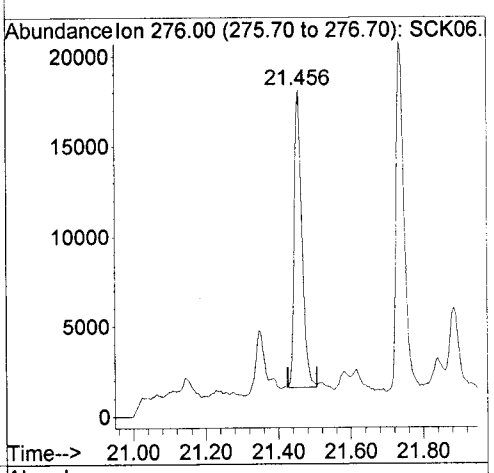
Raw



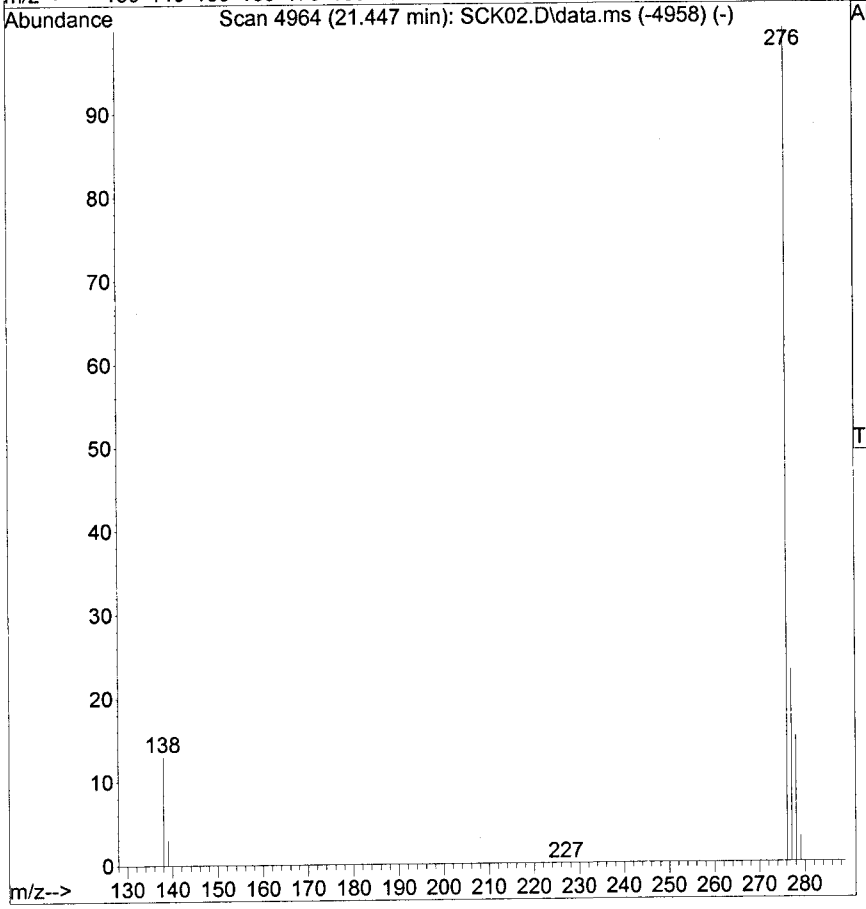
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.2590 ug/mL
RT: 21.456 min Scan# 4965
Delta R.T. 0.010 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

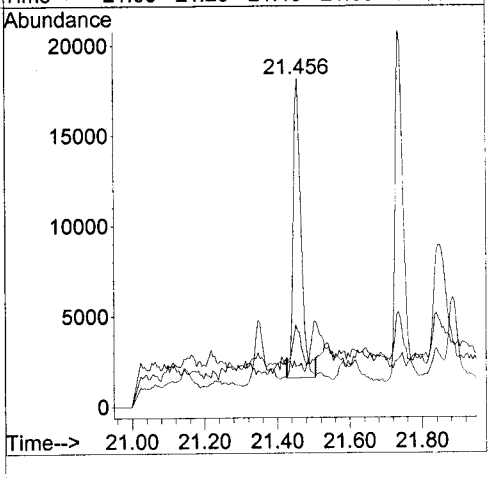
Tgt Ion:276 Resp: 24307

Ion	Ratio	Lower	Upper
276	100		
138	23.0	2.0	42.0
227	12.5	0.0	26.7



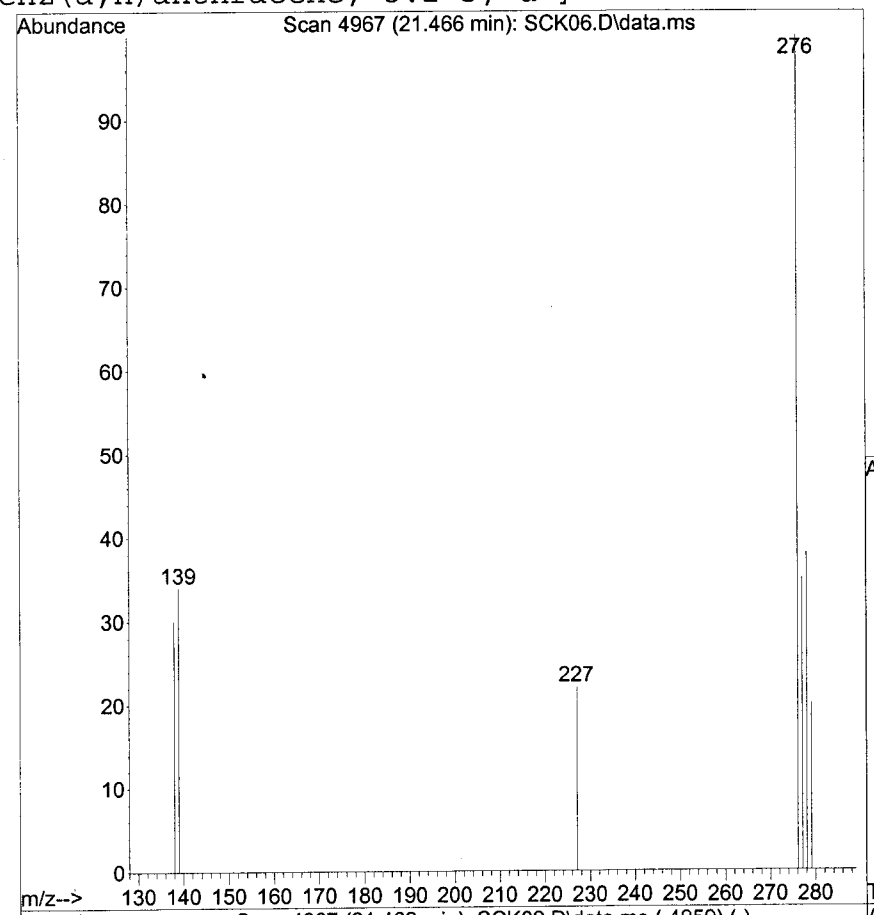
Ref





[Dibenz(a,h)anthracene; 3.2 J; u]

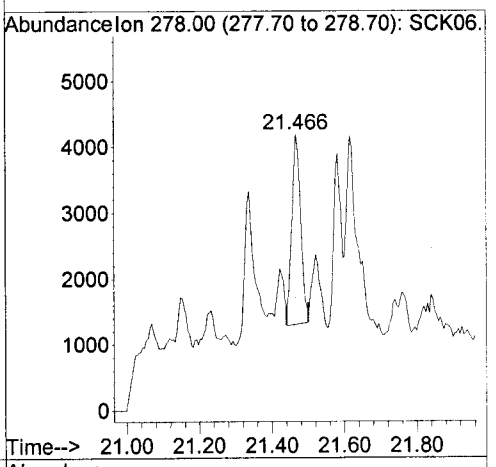
Raw



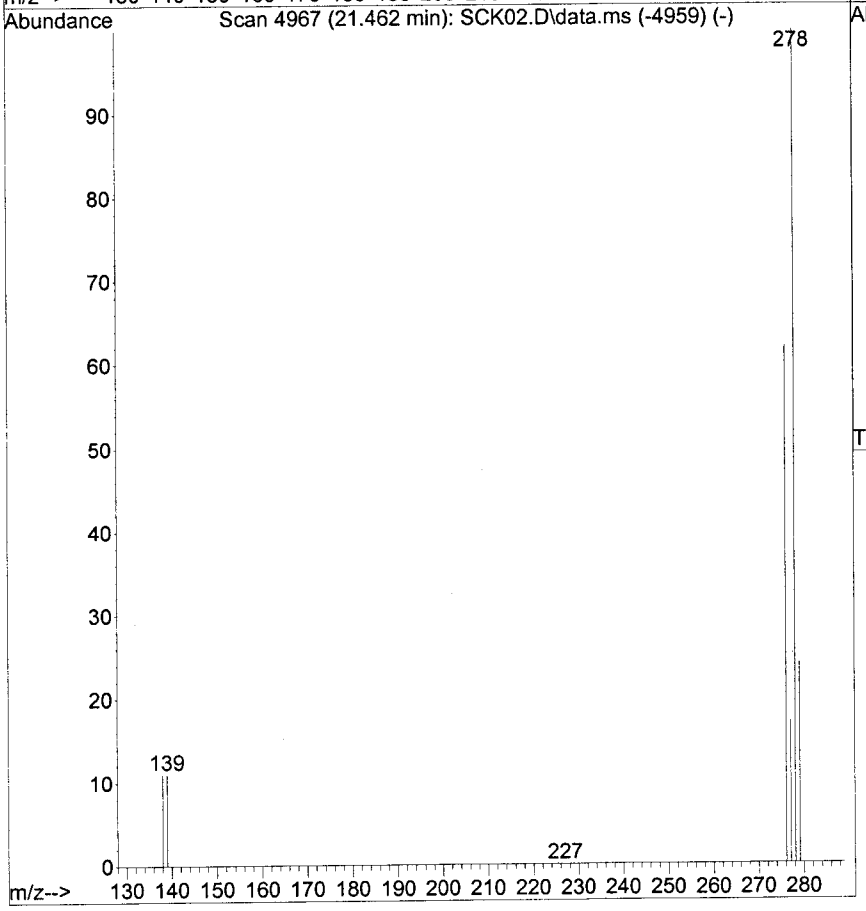
#27
Dibenz(a,h)anthracene
Concen: 0.0954 ug/mL
RT: 21.466 min Scan# 4967
Delta R.T. 0.005 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

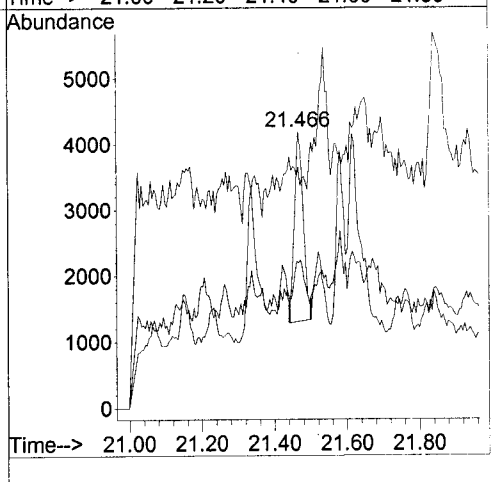
Tgt Ion:278 Resp: 4923

Ion	Ratio	Lower	Upper
278	100		
139	87.2	8.1	48.1#
279	52.2	15.9	55.9



Ref

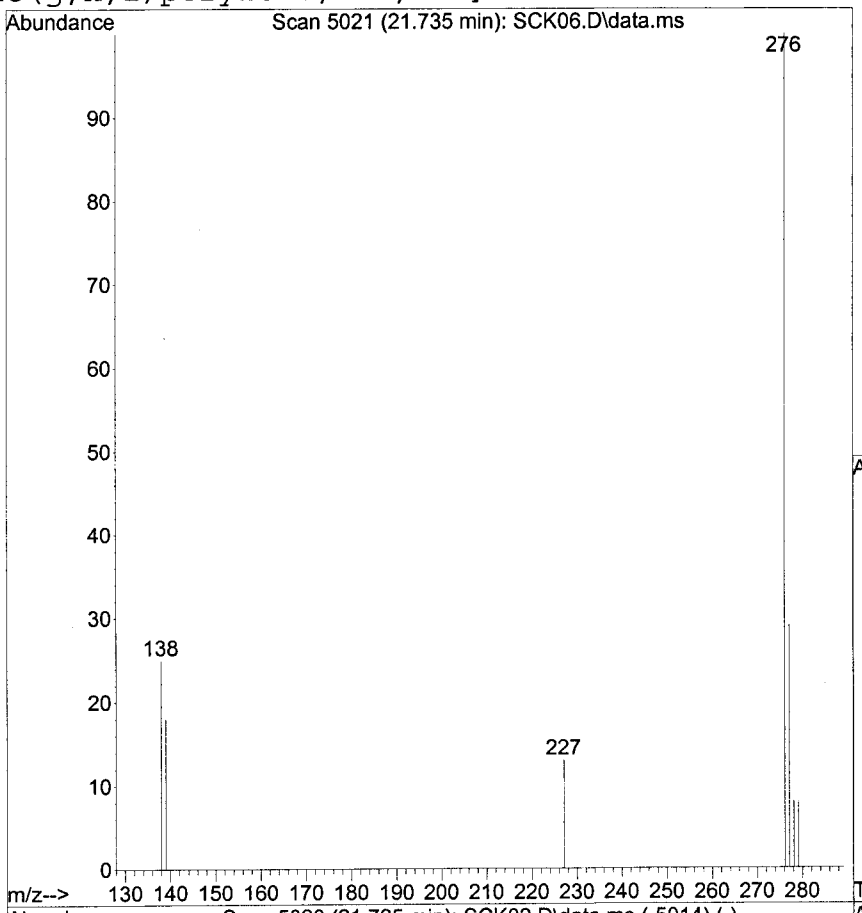




00217

[Benzo(g,h,i)perylene; 10; u]

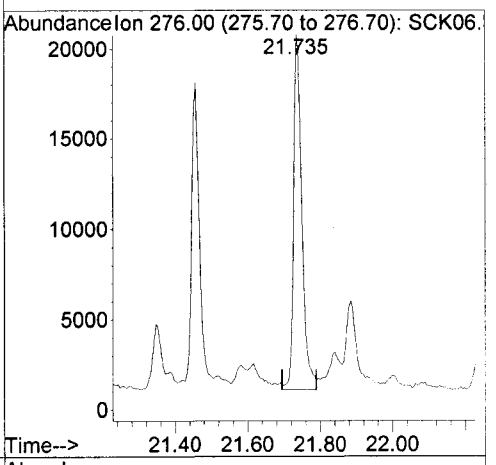
Raw



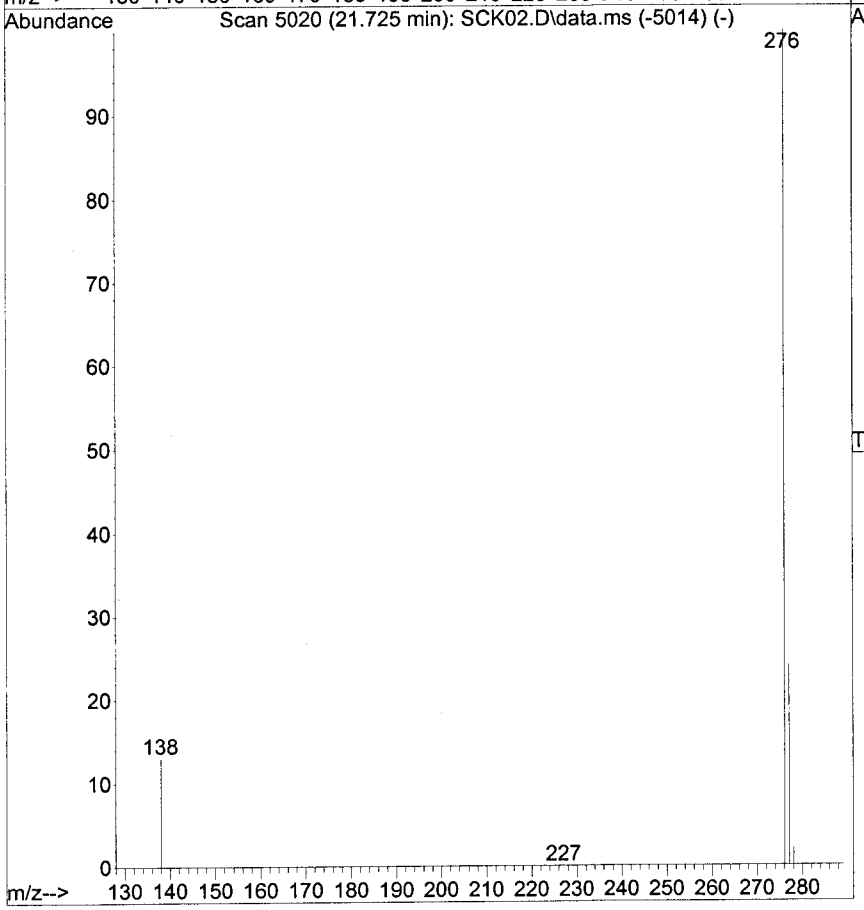
#28
Benzo(g,h,i)perylene
Concen: 0.3107 ug/mL
RT: 21.735 min Scan# 5021
Delta R.T. 0.010 min
Lab File: SCK06.D
Acq: 20 Mar 2008 12:39 pm

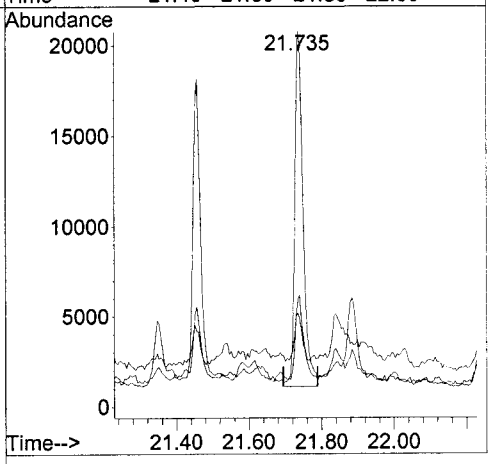
Tgt Ion:276 Resp: 31264

Ion	Ratio	Lower	Upper
276	100		
138	25.0	0.8	40.8
277	28.5	6.2	46.2



Ref





CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst	: MSBNA08	Lab ID	: 202043-009	Client ID	: 1065EX314[5.5]
Seqnum	: 578115801007	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: sck07	Batch	: 136173	Time	: 20-MAR-2008 13:13
Cal	: 578083102001	Caldate	: 26-FEB-2008		
IDF	: 1.0	Raw Units	: ug/mL	Units	: ug/Kg

30.27 g --> 1.0 ml = 0.03304 ml/g PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.3572	12	5.0		u
2-Methylnaphthalene	0.3980	13	5.0		u
Acenaphthylene	0.1032	3.4 J	5.0		u
Acenaphthene	0.07270	2.4 J	5.0		u
Fluorene	0.07720	2.6 J	5.0		u
Phenanthrene	0.6468	21	5.0		u
Anthracene	0.1155	3.8 J	5.0		u
Fluoranthene	0.7230	24	5.0		u
Pyrene	0.6987	23	5.0		u
Benzo(a)anthracene	0.4116	14	5.0		u
Chrysene	0.6065	20	5.0		u
Benzo(b)fluoranthene	0.7556	25	5.0		m u
Benzo(k)fluoranthene	0.1601	5.3	5.0		m u
Benzo(a)pyrene	0.3623	12	5.0		u
Indeno(1,2,3-cd)pyrene	0.4345	14	5.0		u
Dibenz(a,h)anthracene	0.1508	5.0	5.0		u
Benzo(g,h,i)perylene	0.4934	16	5.0		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	1.069	33.04	35.33	107	23-120	m u
2-Fluorobiphenyl	0.9107	33.04	30.09	91	30-115	u
Terphenyl-d14	0.9318	33.04	30.78	93	18-137	u

ISTD (CCV sck02)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE R	Drift
Naphthalene-d8	64577	63174	-2.17	10.60	10.59	-0.01
Acenaphthene-d10	45669	41571	-8.97	12.82	12.81	-0.01
Phenanthrene-d10	83109	72251	-13.06	14.72	14.72	0.00
Chrysene-d12	92399	72626	-21.40	18.27	18.28	0.01
Perylene-d12	87612	87997	0.44	20.21	20.23	0.02

LLH: 03/20/08 JAJ: 03/20/08 EAH: 03/21/08

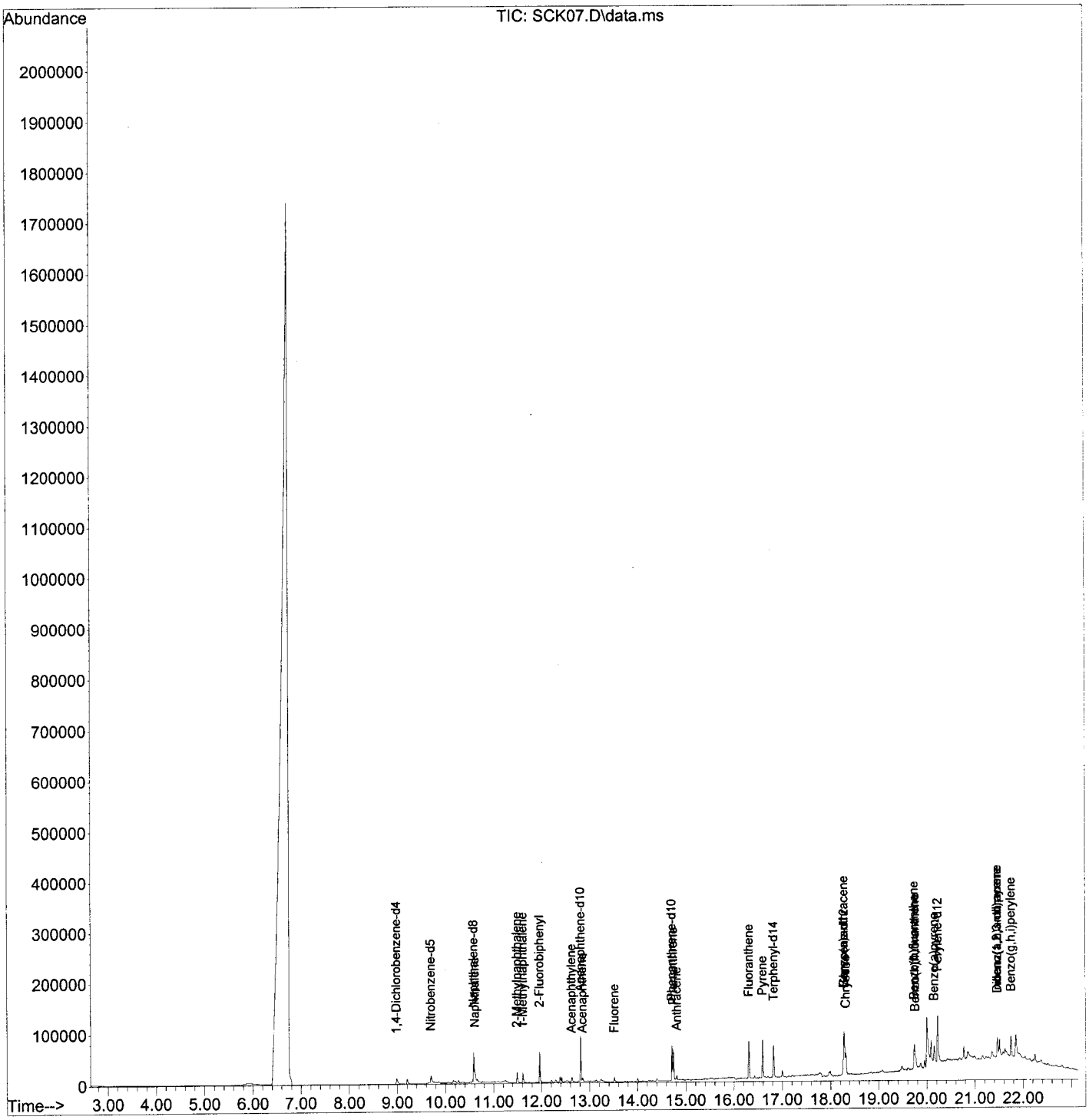
m=manual integration u=use

578115801007

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK07.D
Acq On : 20 Mar 2008 1:13 pm
Operator :
Sample : S,202043-009
Misc : 136173,1,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 20 14:18:34 2008
Quant Method : G:\msbna08\032008\8PAHSIM.m
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK07.D
Acq On : 20 Mar 2008 1:13 pm
Operator :
Sample : S,202043-009
Misc : 136173,1,
ALS Vial : 7 Sample Multiplier: 1

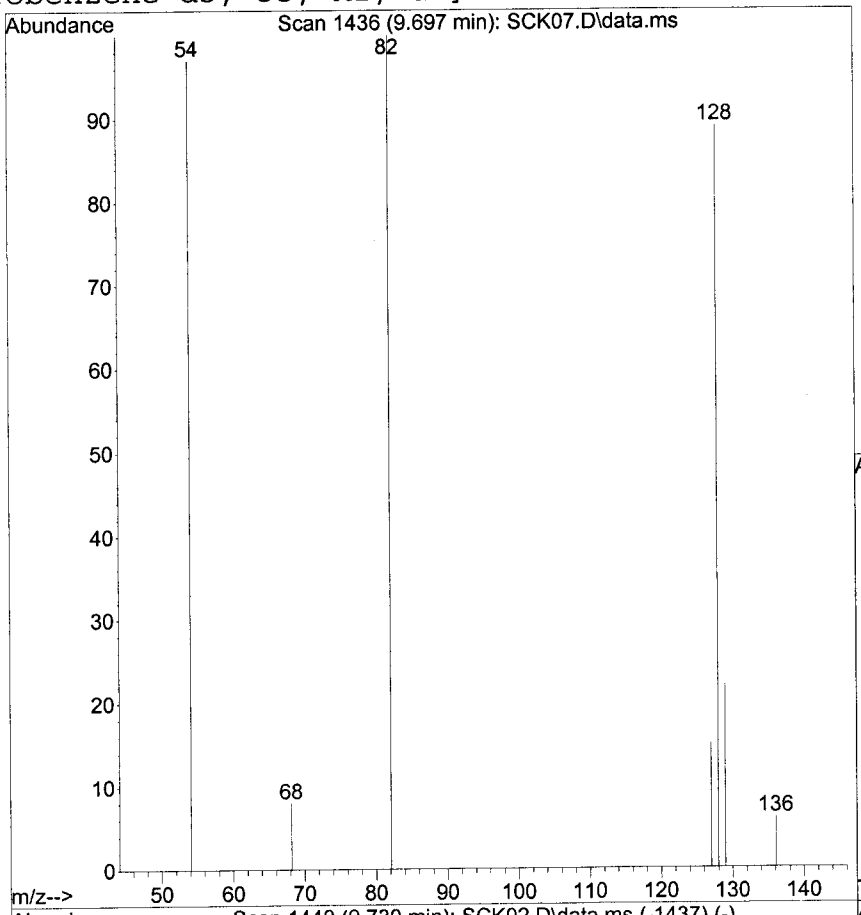
Quant Time: Mar 20 14:18:34 2008
Quant Method : G:\msbna08\032008\8PAHSIM.m
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Mar 20 11:05:06 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units		Rel.RT
1) 1,4-Dichlorobenzene-d4	8.985	152	15490	1.0000	ug/mL		-0.03
3) Naphthalene-d8	10.589	136	63174	1.0000	ug/mL		0.00
8) Acenaphthene-d10	12.814	164	41571	1.0000	ug/mL		0.00
13) Phenanthrene-d10	14.717	188	72251	1.0000	ug/mL		0.00
17) Chrysene-d12	18.279	240	72626	1.0000	ug/mL		0.00
22) Perylene-d12	20.226	264	87997	1.0000	ug/mL		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.			
4) Nitrobenzene-d5	9.697	82	9857m	1.0694	ug/mL		
5) Naphthalene	10.616	128	22986	0.3572	ug/mL		90
6) 2-Methylnaphthalene	11.494	142	13114	0.3980	ug/mL		97
7) 1-Methylnaphthalene	11.614	142	11699	0.2484	ug/mL		97
9) 2-Fluorobiphenyl	11.963	172	49735	0.9107	ug/mL		97
10) Acenaphthylene	12.630	152	7239	0.1032	ug/mL		93
11) Acenaphthene	12.856	154	3075	0.0727	ug/mL		89
12) Fluorene	13.515	166	3780	0.0772	ug/mL	#	57
14) Phenanthrene	14.744	178	50586	0.6468	ug/mL		99
15) Anthracene	14.812	178	9197	0.1155	ug/mL		89
16) Fluoranthene	16.311	202	66250	0.7230	ug/mL		97
18) Pyrene	16.595	202	65049	0.6987	ug/mL		97
19) Terphenyl-d14	16.822	244	65015	0.9318	ug/mL		97
20) Benzo(a)anthracene	18.267	228	32554	0.4116	ug/mL		74
21) Chrysene	18.316	228	53976	0.6065	ug/mL		89
23) Benzo(b)fluoranthene	19.739	252	68581m	0.7556	ug/mL		
24) Benzo(k)fluoranthene	19.769	252	18124m	0.1601	ug/mL		
25) Benzo(a)pyrene	20.153	252	35746	0.3623	ug/mL	#	31
26) Indeno(1,2,3-cd)pyrene	21.467	276	41436	0.4345	ug/mL		59
27) Dibenz(a,h)anthracene	21.477	278	9371	0.1508	ug/mL	#	1
28) Benzo(g,h,i)perylene	21.751	276	48384	0.4934	ug/mL		75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

[Nitrobenzene-d5; 35; MI; u]

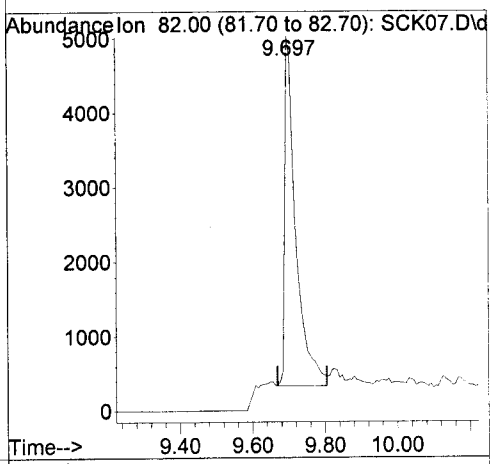
Raw



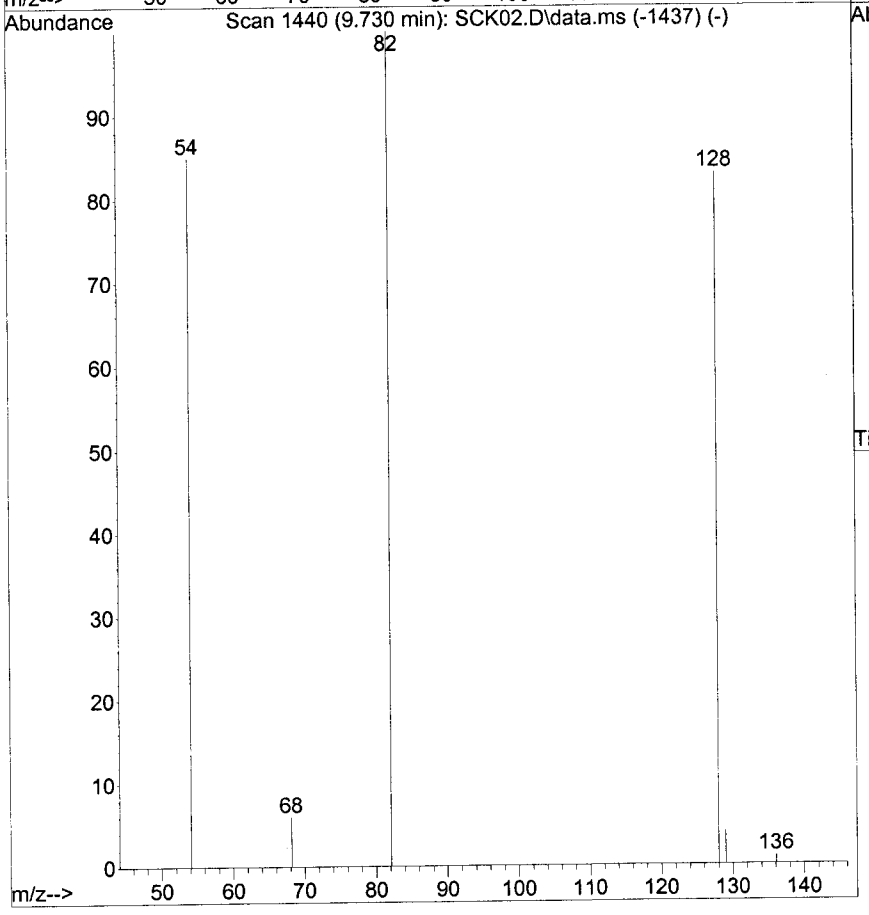
#4
Nitrobenzene-d5
Concen: 1.0694 ug/mL m
RT: 9.697 min Scan# 1436
Delta R.T. -0.033 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

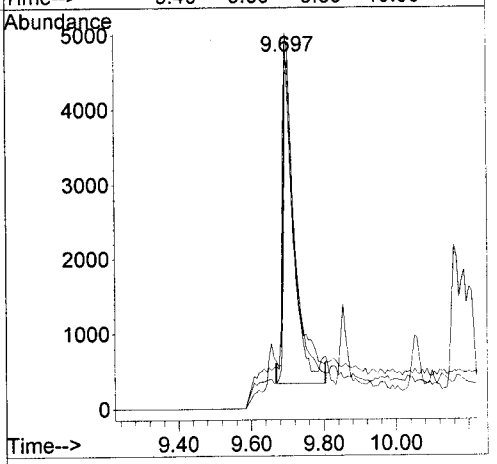
Tgt Ion: 82 Resp: 9857

Ion	Ratio	Lower	Upper
82	100		
128	96.0	52.7	92.7#
54	105.1	73.3	113.3



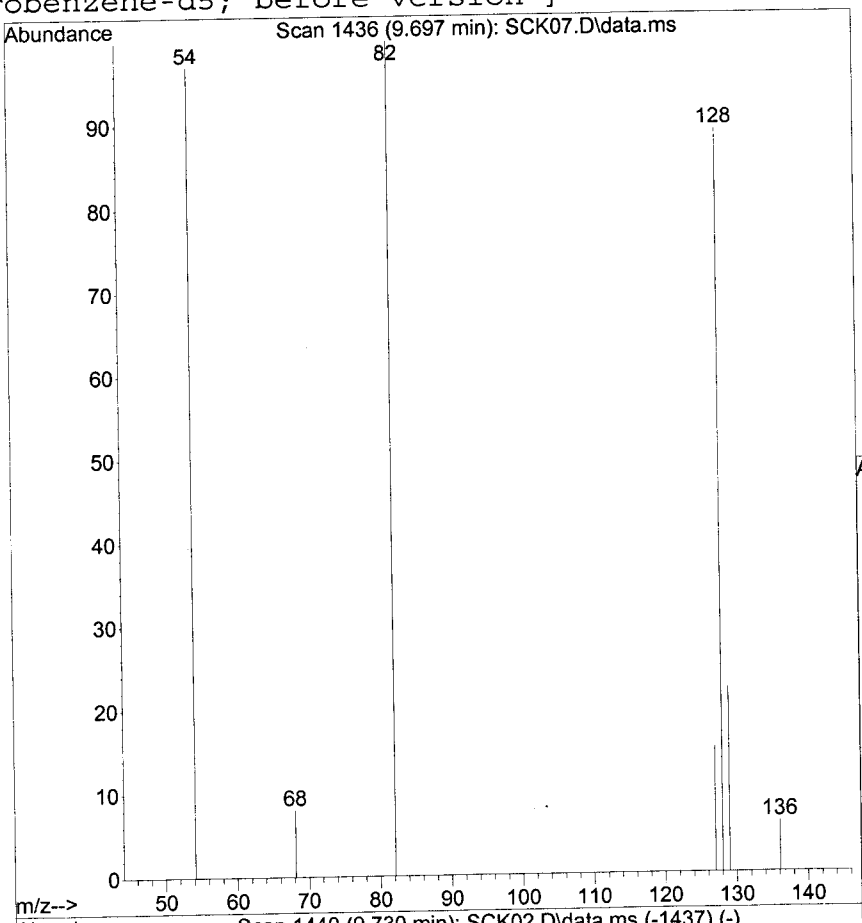
Ref





[Nitrobenzene-d5; before version]

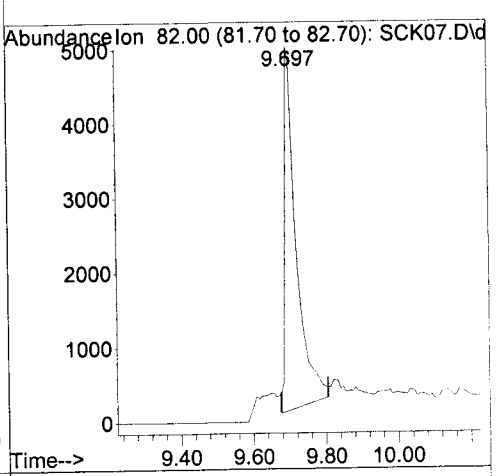
Raw



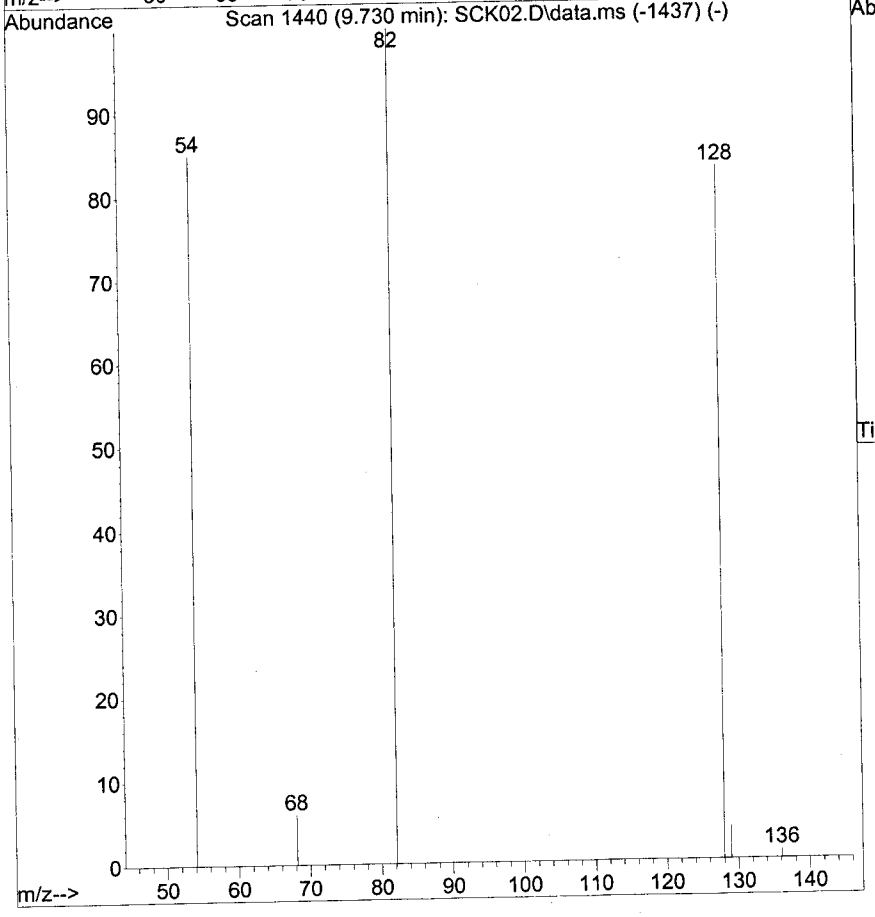
#4
Nitrobenzene-d5
Concen: 1.1396 ug/mL
RT: 9.697 min Scan# 1436
Delta R.T. -0.033 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

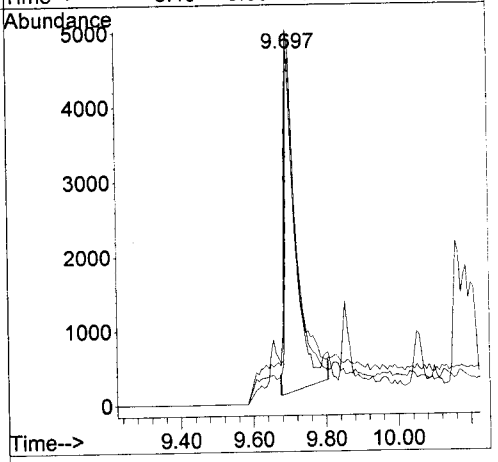
Tgt Ion: 82 Resp: 10669

Ion	Ratio	Lower	Upper
82	100		
128	88.7	52.7	92.7
54	97.1	73.3	113.3



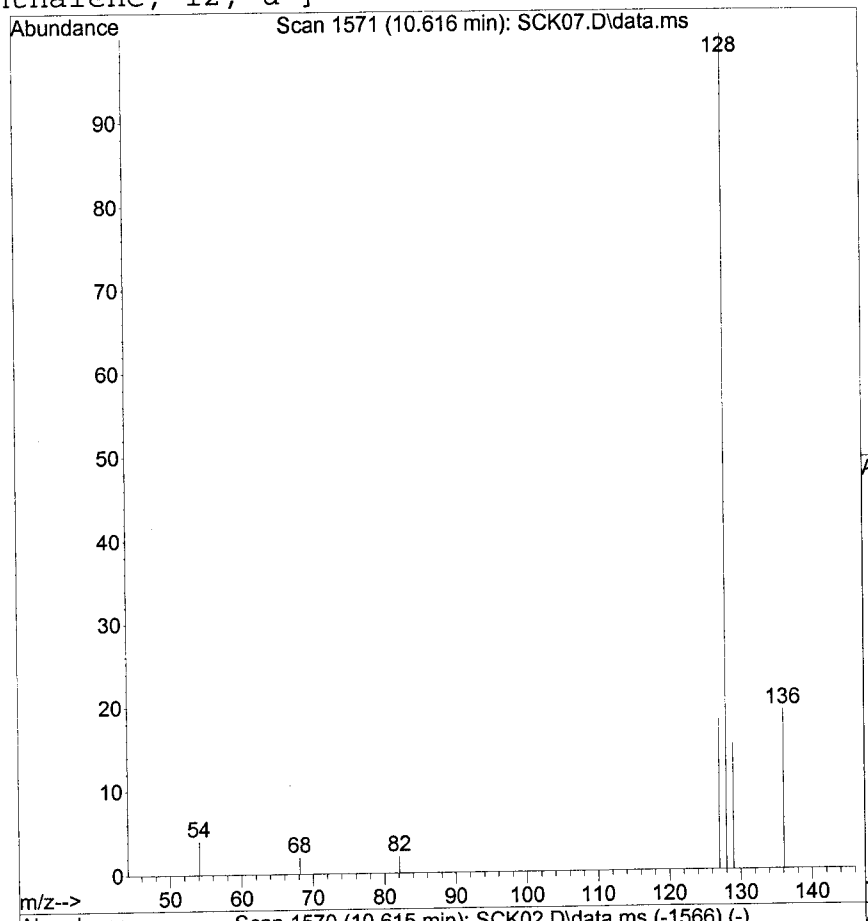
Ref





[Naphthalene; 12; u]

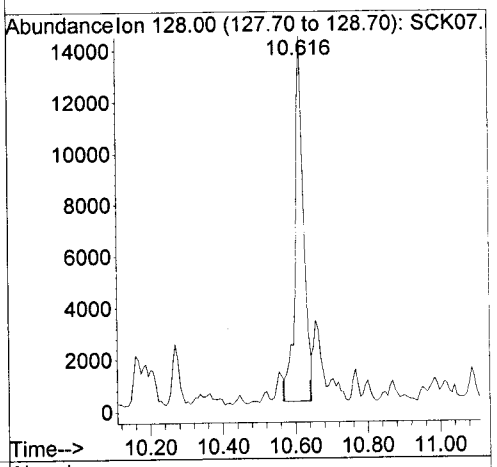
Raw



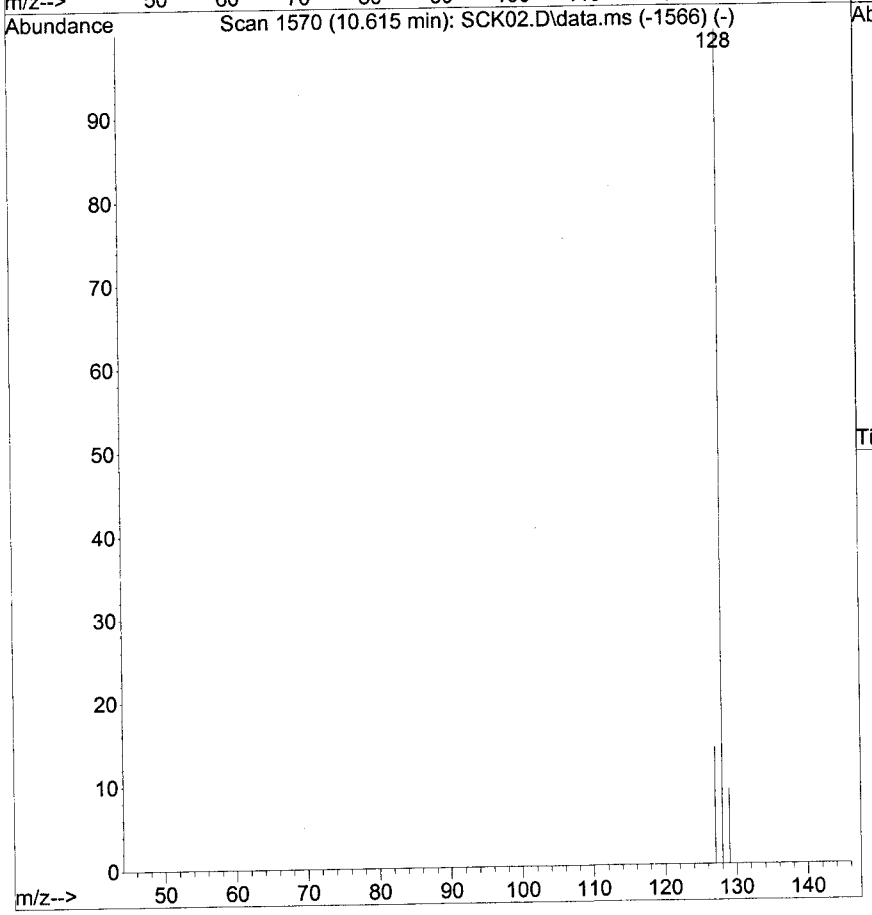
#5
Naphthalene
Concen: 0.3572 ug/mL
RT: 10.616 min Scan# 1571
Delta R.T. 0.001 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

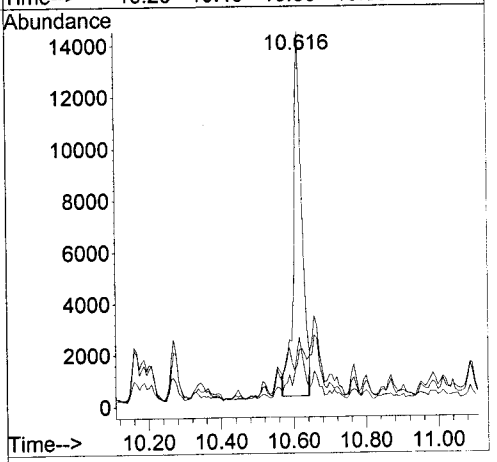
Tgt Ion:128 Resp: 22986

Ion	Ratio	Lower	Upper
128	100		
129	14.9	0.0	31.8
127	18.3	0.0	33.9



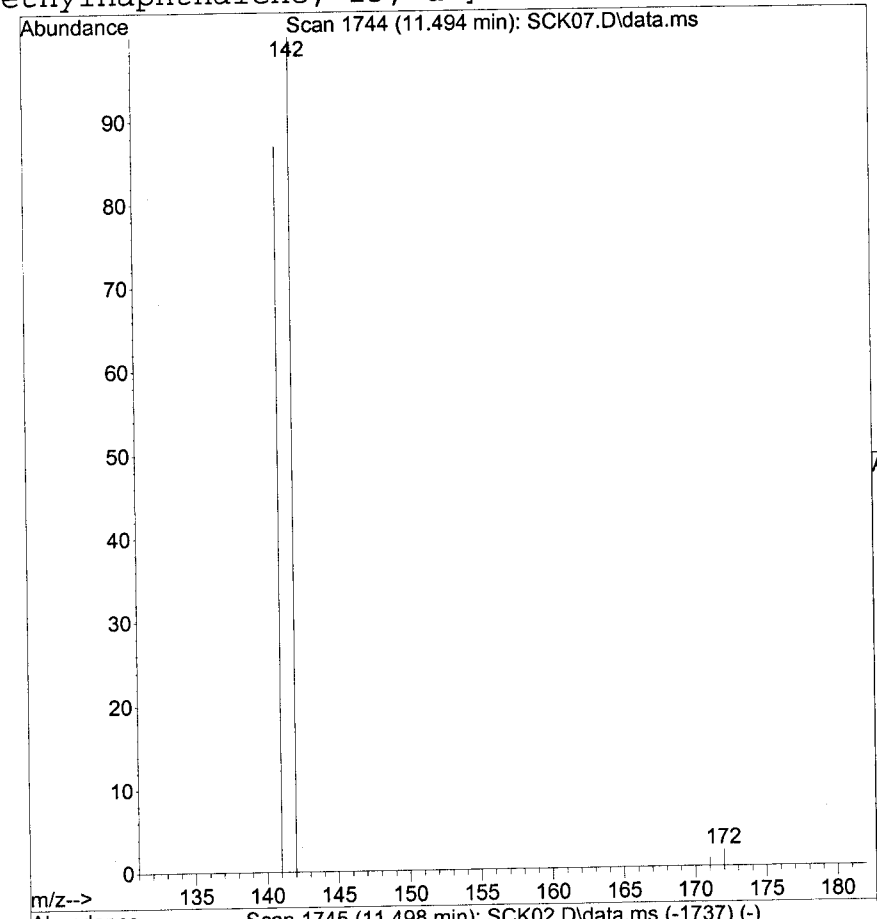
Ref





[2-Methylnaphthalene; 13; u]

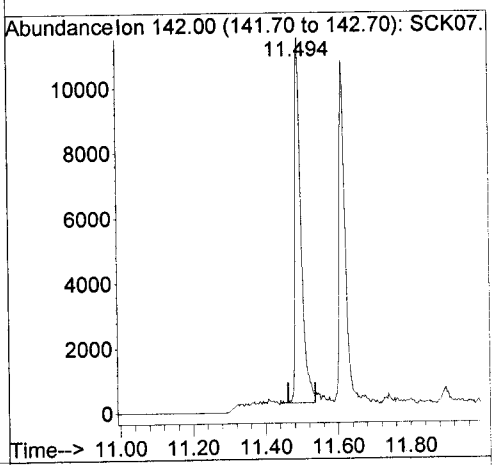
Raw



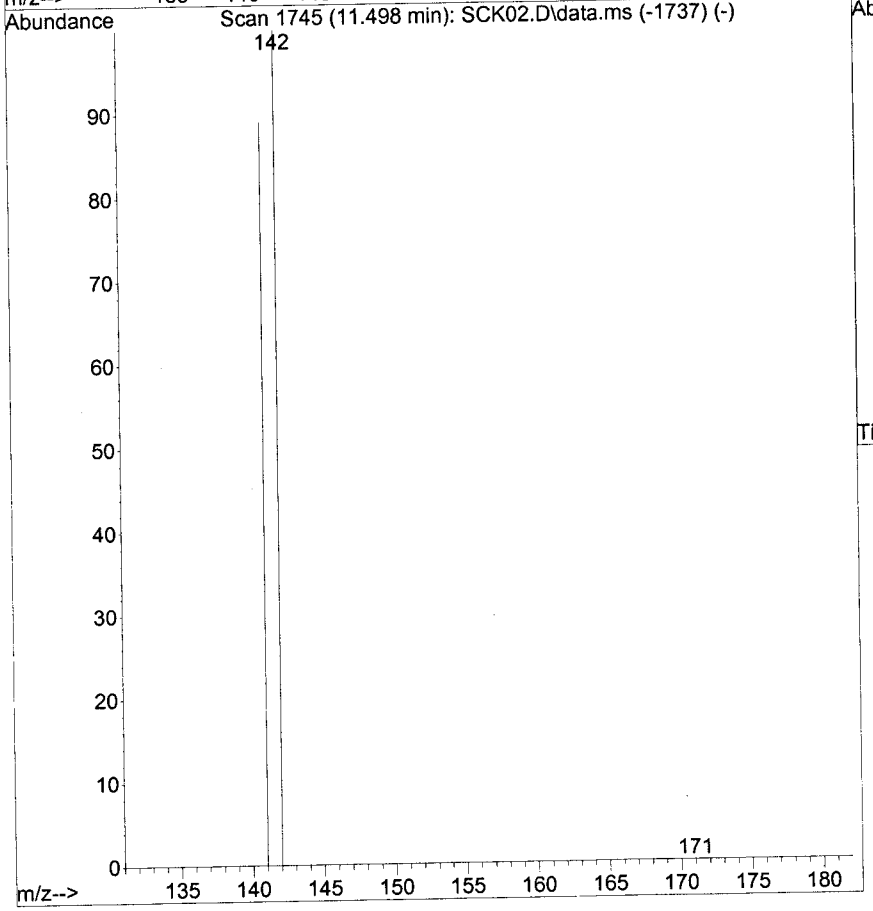
#6
2-Methylnaphthalene
Concen: 0.3980 ug/mL
RT: 11.494 min Scan# 1744
Delta R.T. -0.004 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

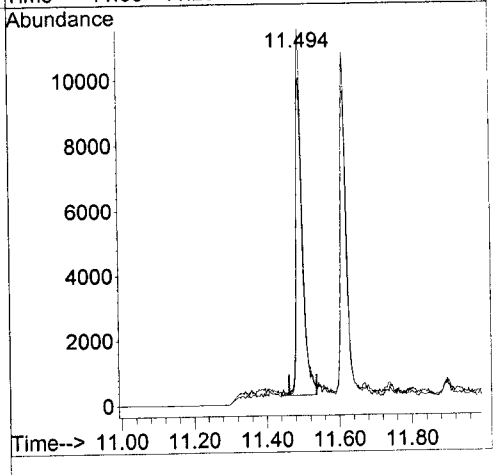
Tgt Ion:142 Resp: 13114

Ion	Ratio	Lower	Upper
142	100		
141	86.9	64.5	104.5



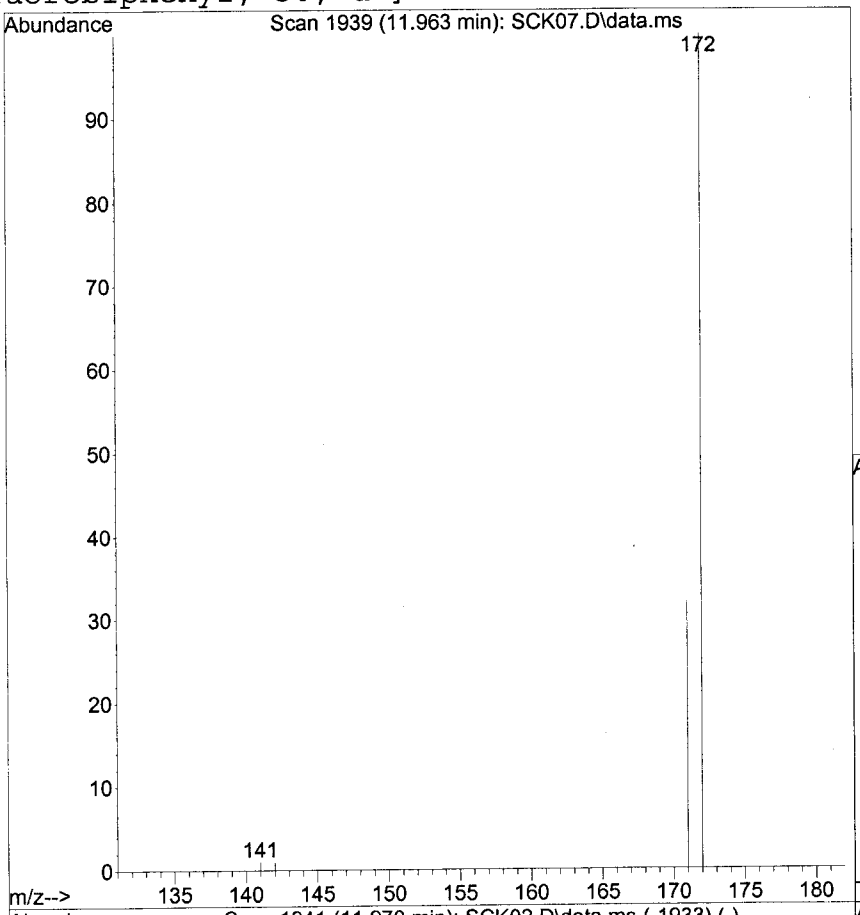
Ref





[2-Fluorobiphenyl; 30; u]

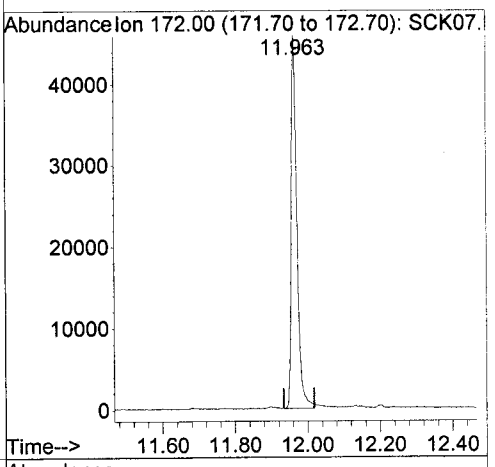
Raw



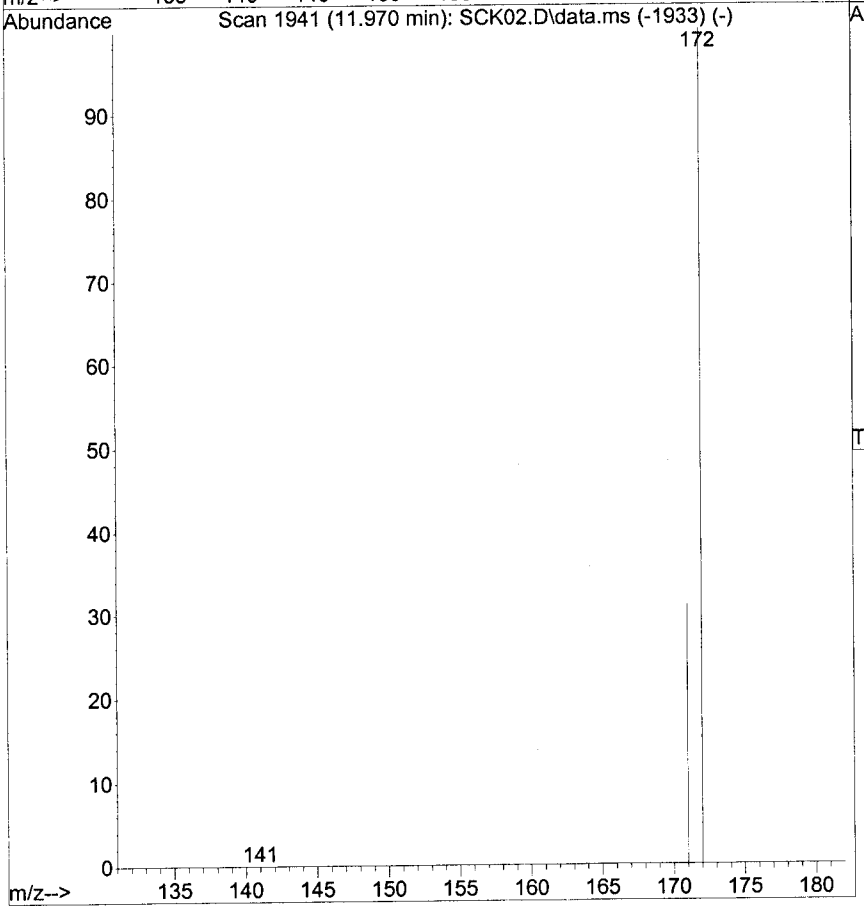
#9
2-Fluorobiphenyl
Concen: 0.9107 ug/mL
RT: 11.963 min Scan# 1939
Delta R.T. -0.007 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

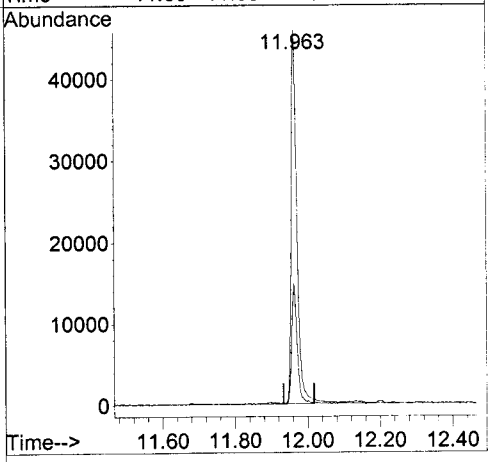
Tgt Ion:172 Resp: 49735

Ion	Ratio	Lower	Upper
172	100		
171	32.4	14.3	54.3



Ref

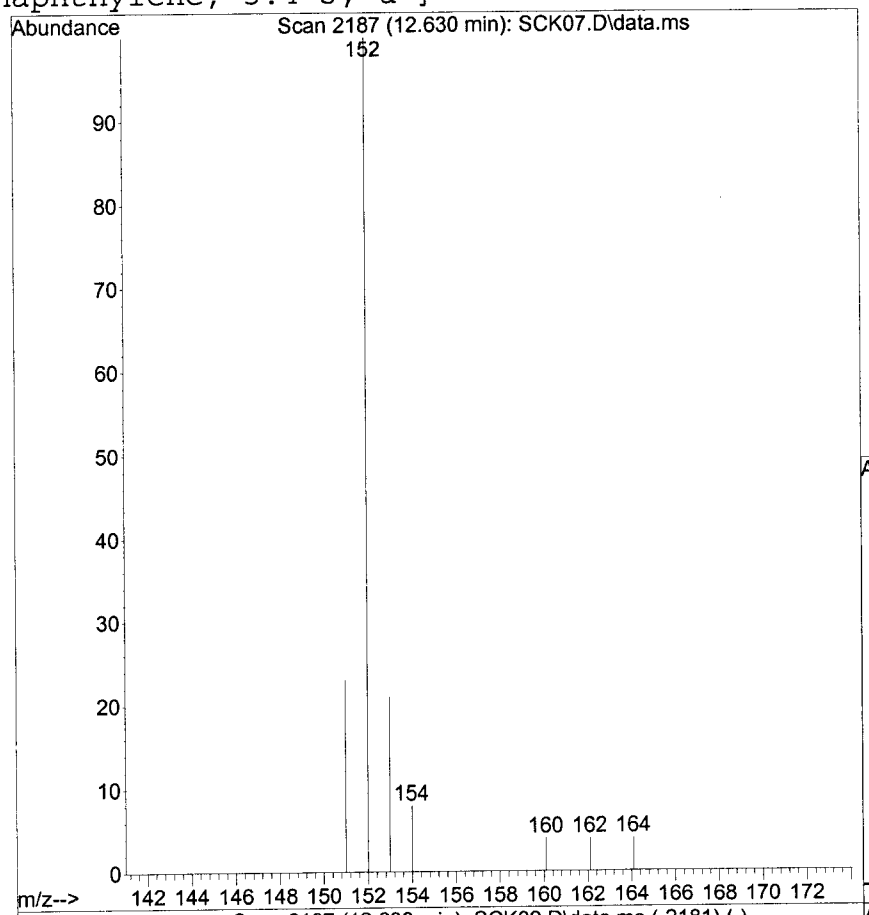




: 00226

[Acenaphthylene; 3.4 J; u]

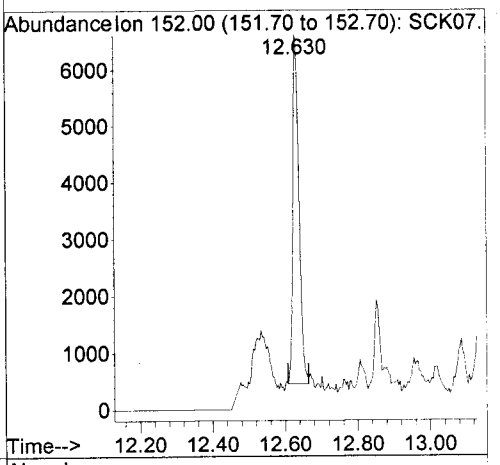
Raw



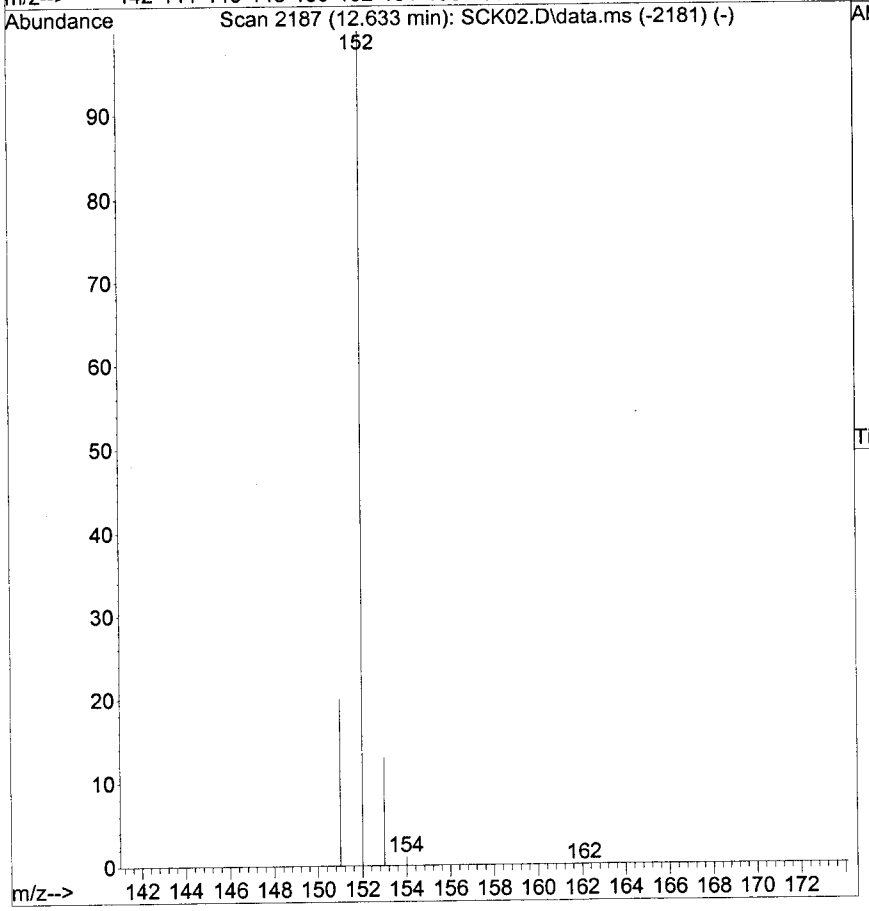
#10
Acenaphthylene
Concen: 0.1032 ug/mL
RT: 12.630 min Scan# 2187
Delta R.T. -0.003 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

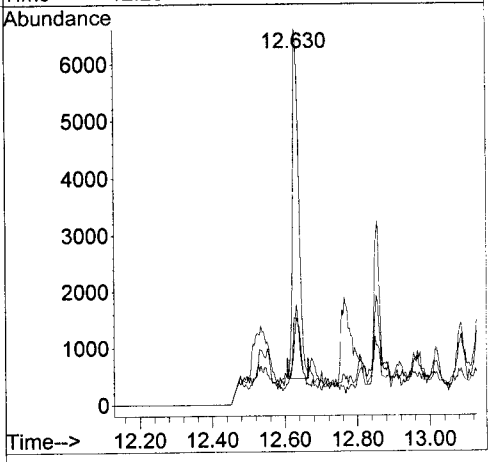
Tgt Ion:152 Resp: 7239

Ion	Ratio	Lower	Upper
152	100		
151	23.0	2.3	42.3
153	20.8	0.0	34.0



Ref

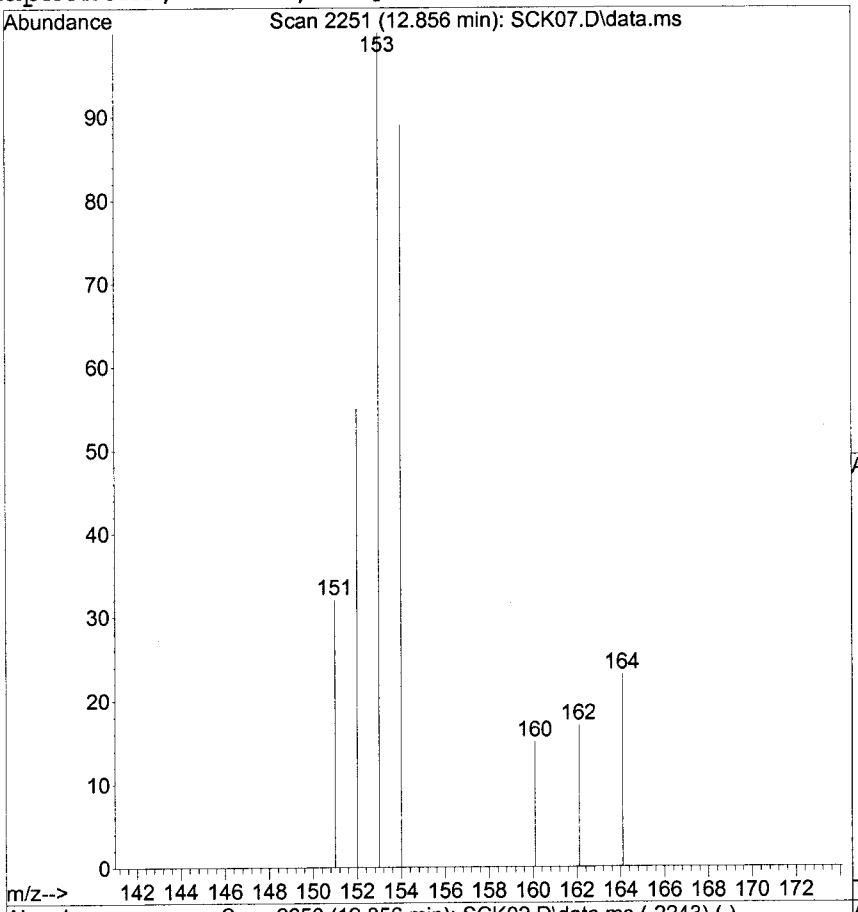




00227

[Acenaphthene; 2.4 J; u]

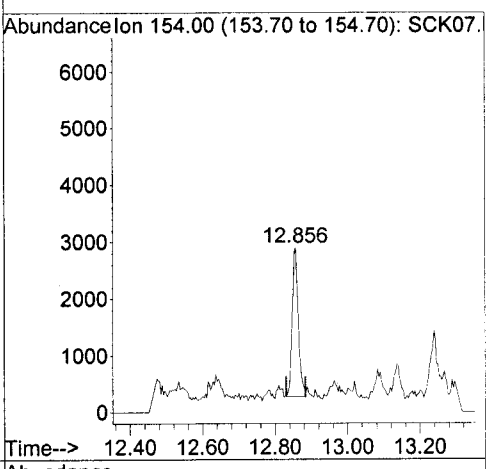
Raw



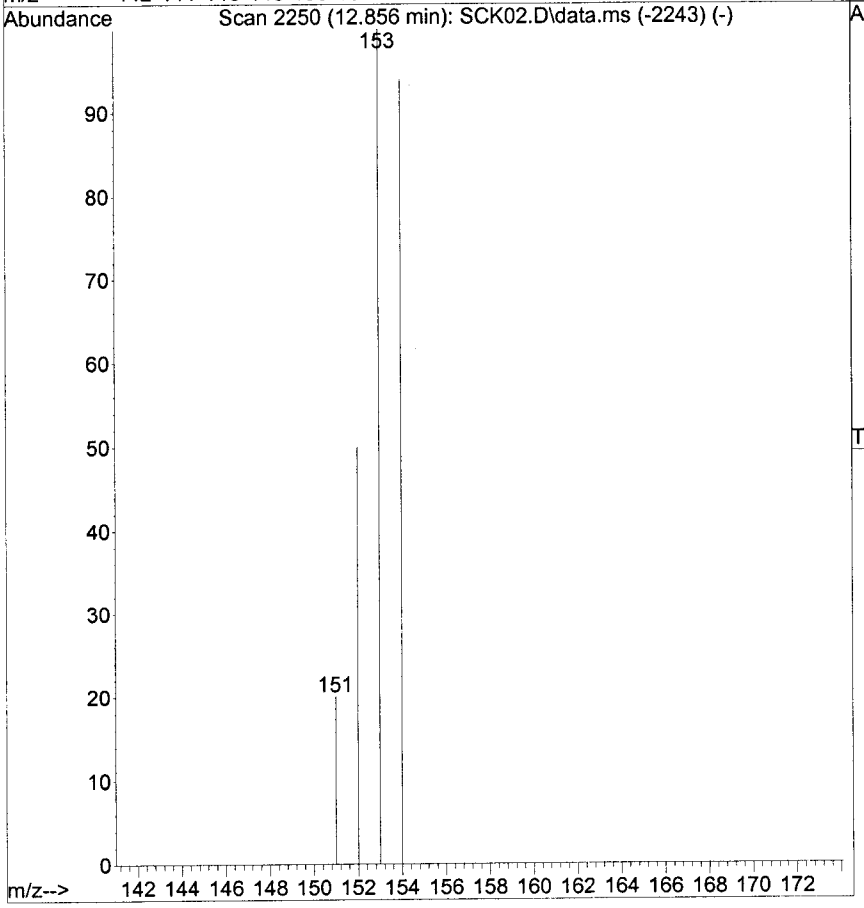
#11
Acenaphthene
Concen: 0.0727 ug/mL
RT: 12.856 min Scan# 2251
Delta R.T. 0.001 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

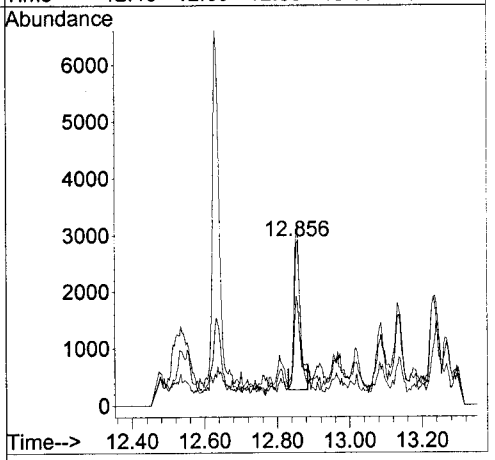
Tgt Ion:154 Resp: 3075

Ion	Ratio	Lower	Upper
154	100		
152	61.9	32.3	72.3
153	111.9	82.2	122.2



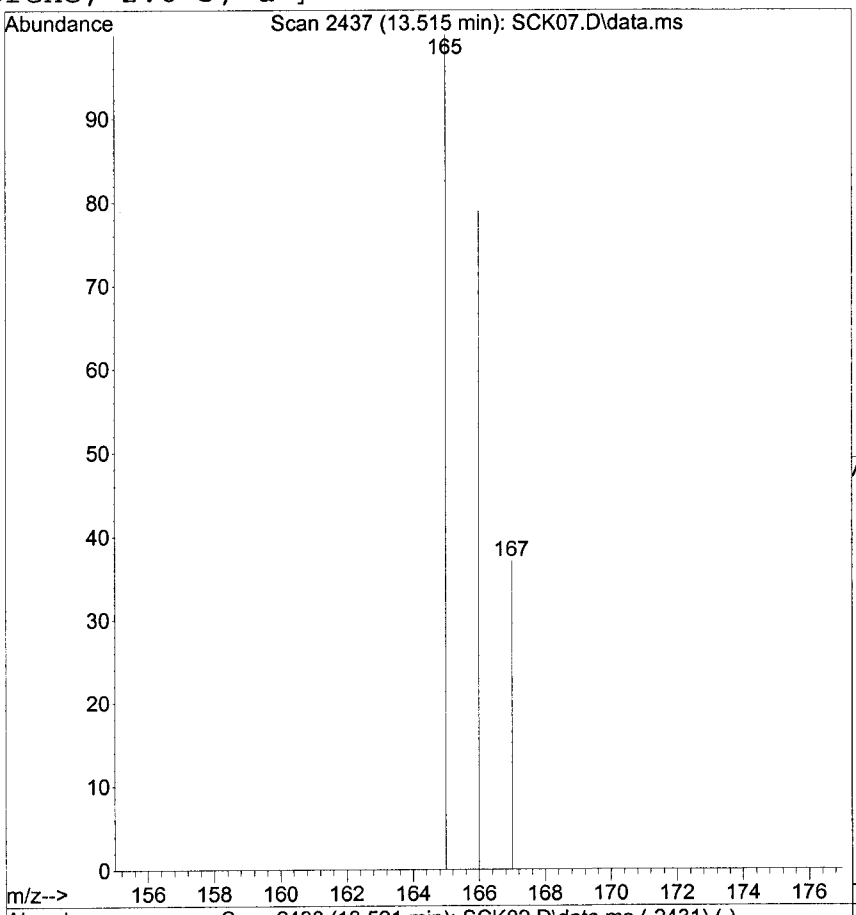
Ref





[Fluorene; 2.6 J; u]

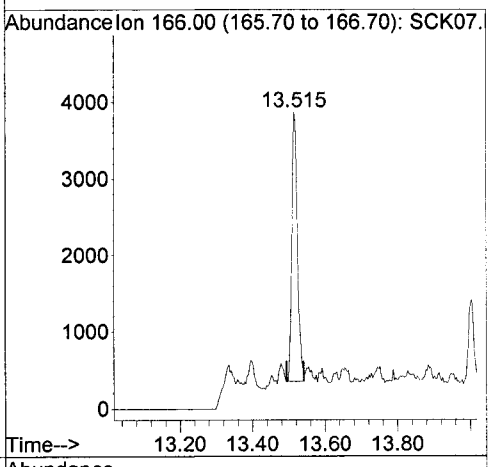
Raw



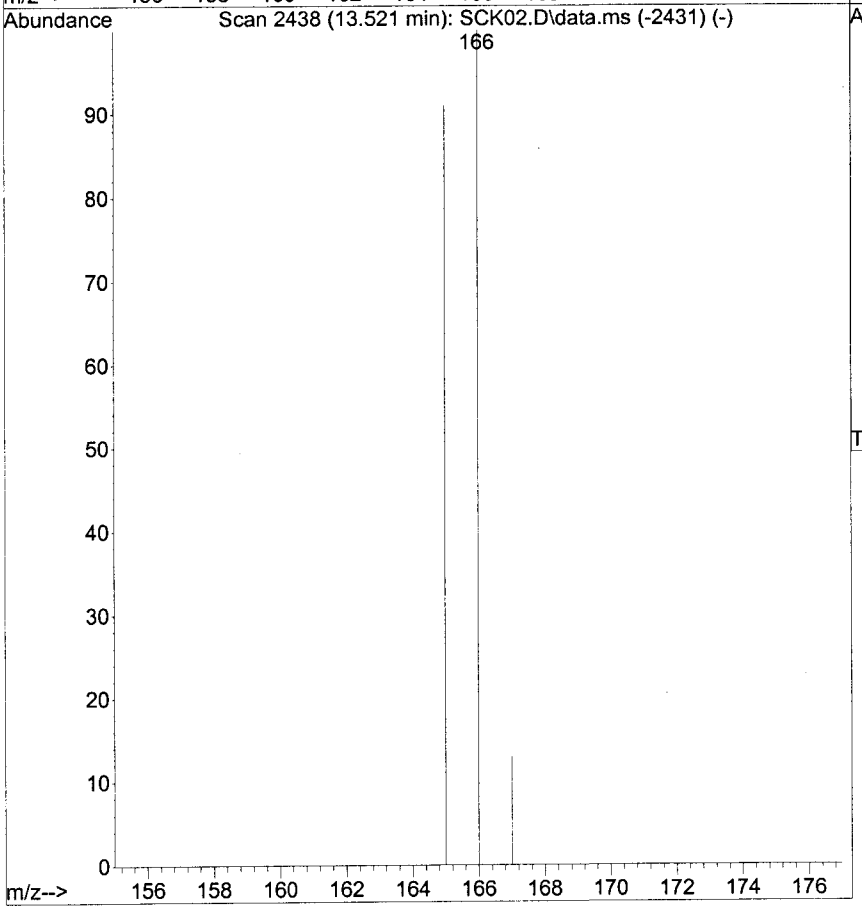
#12
Fluorene
Concen: 0.0772 ug/mL
RT: 13.515 min Scan# 2437
Delta R.T. -0.006 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

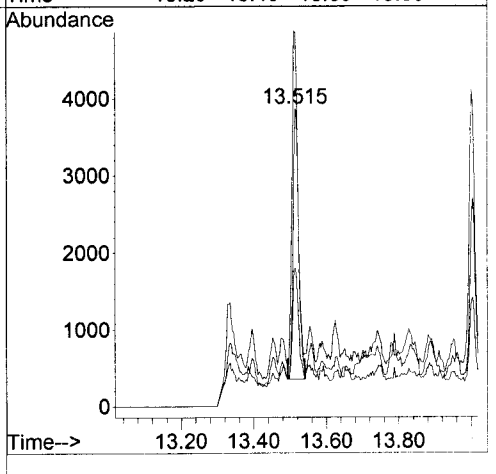
Tgt Ion:166 Resp: 3780

Ion	Ratio	Lower	Upper
166	100		
165	125.9	70.8	110.8#
167	46.6	0.0	34.3#



Ref

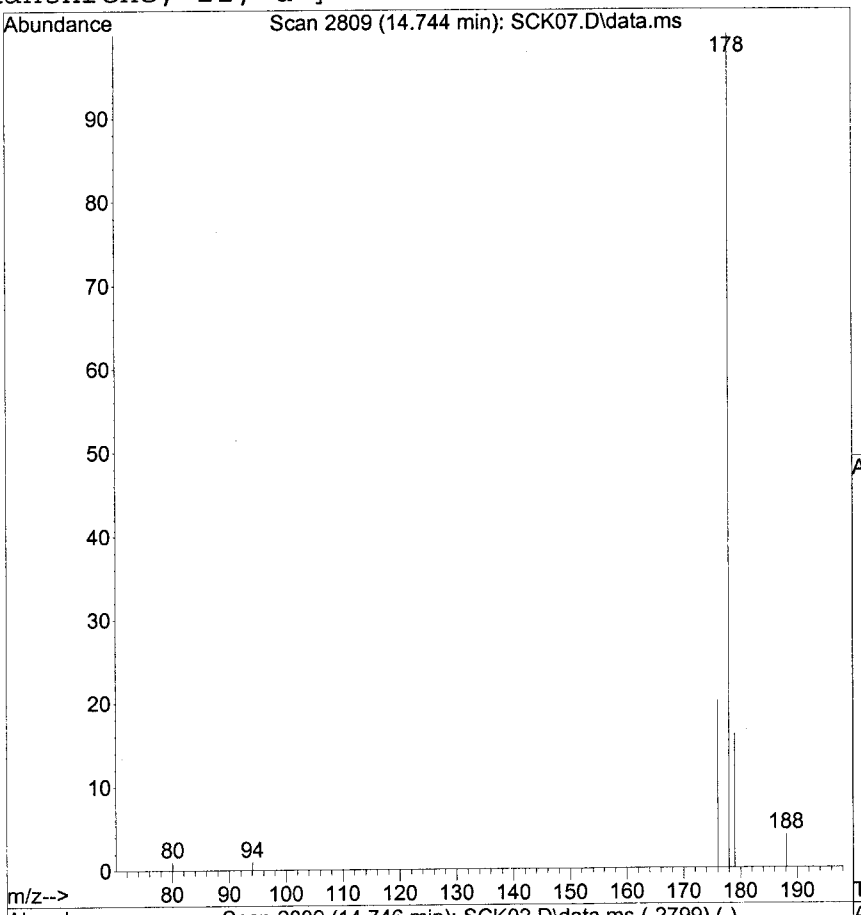




00229

[Phenanthrene; 21; u]

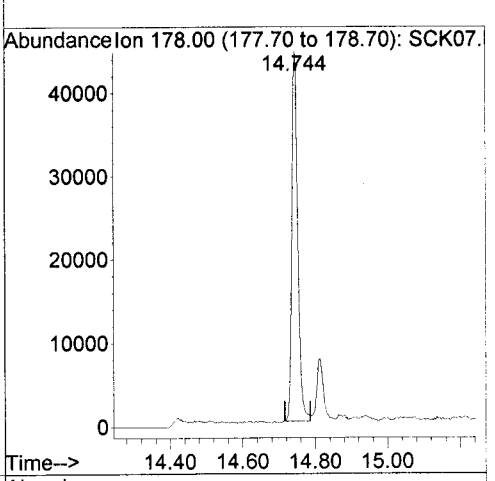
Raw



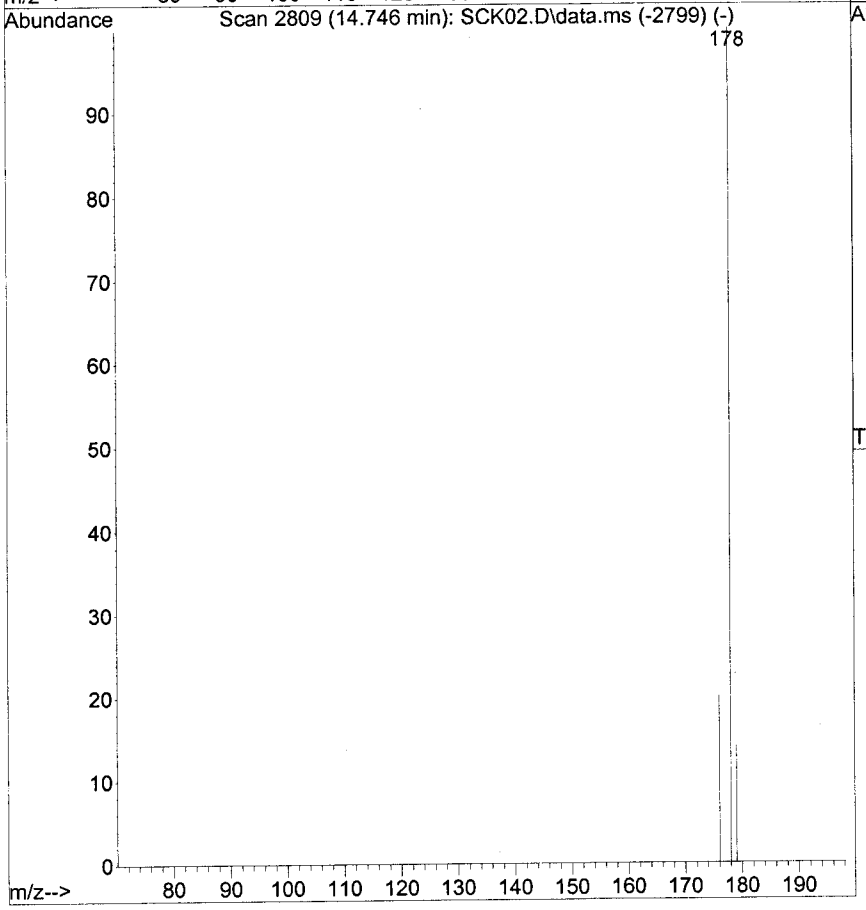
#14
Phenanthrene
Concen: 0.6468 ug/mL
RT: 14.744 min Scan# 2809
Delta R.T. -0.001 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

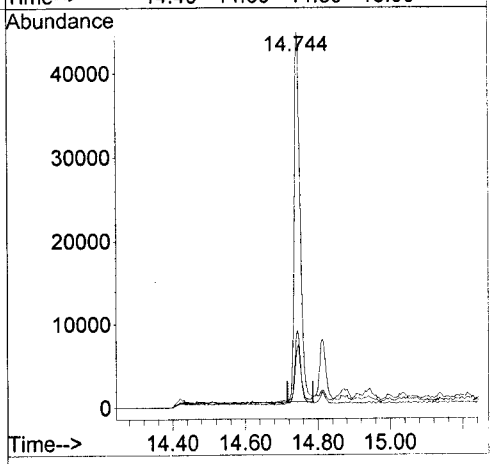
Tgt Ion:178 Resp: 50586

Ion	Ratio	Lower	Upper
178	100		
179	16.3	0.0	36.0
176	20.5	0.7	40.7



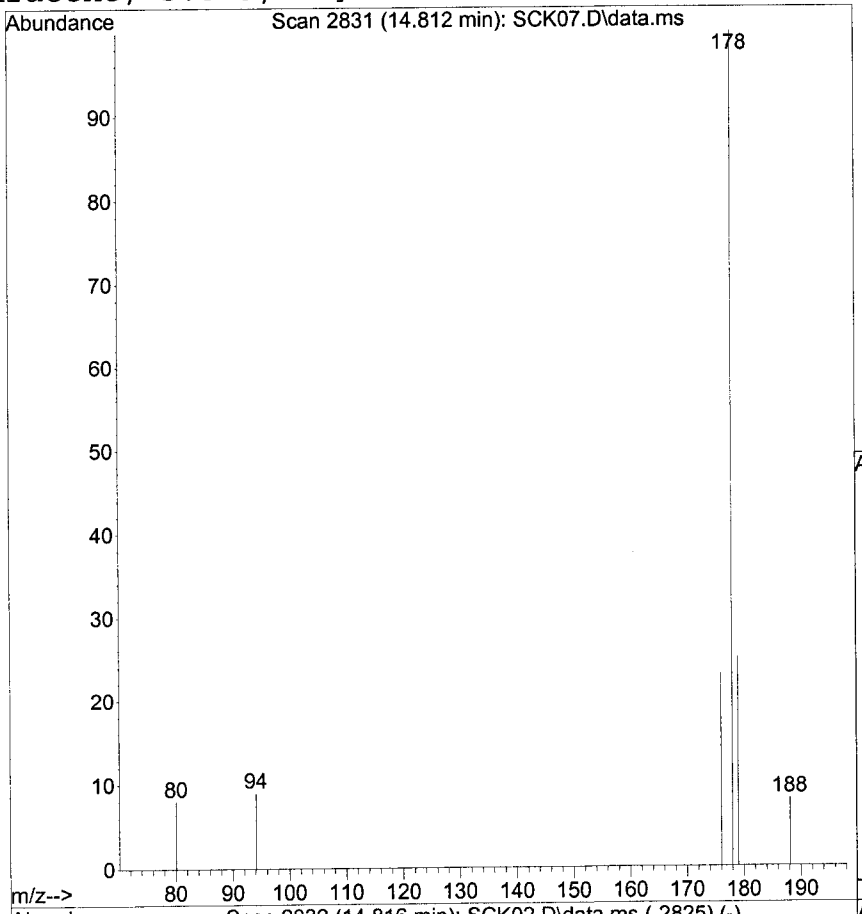
Ref





[Anthracene; 3.8 J; u]

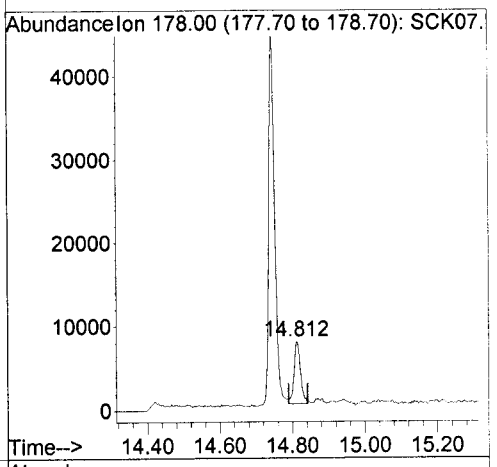
Raw



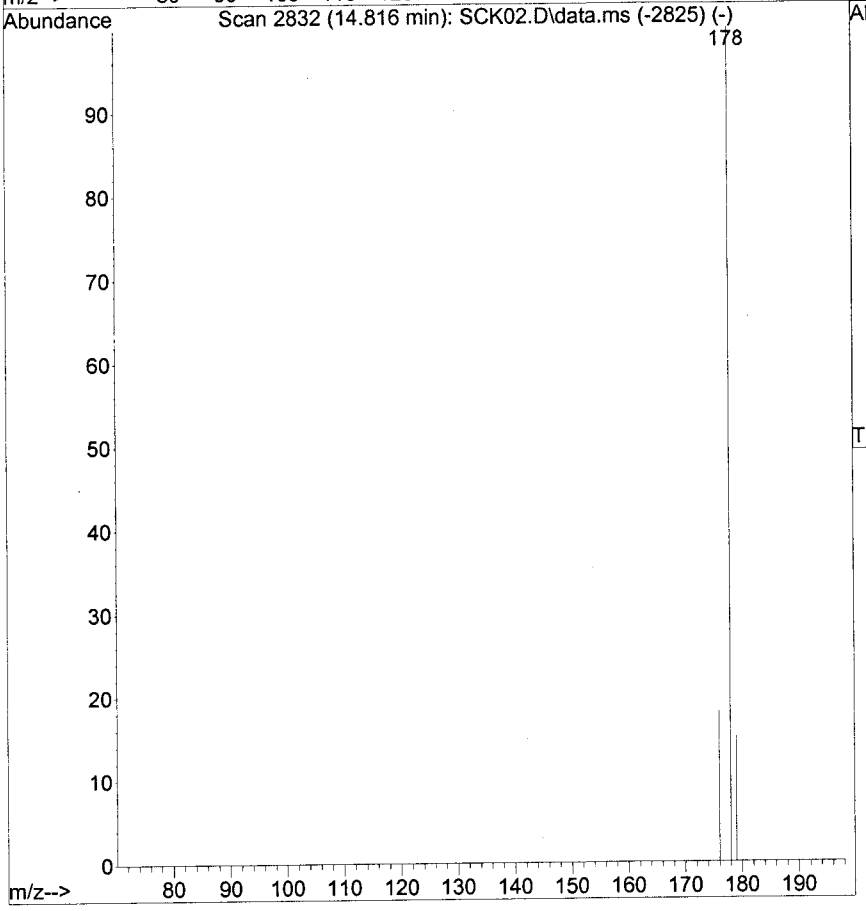
#15
Anthracene
Concen: 0.1155 ug/mL
RT: 14.812 min Scan# 2831
Delta R.T. -0.004 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

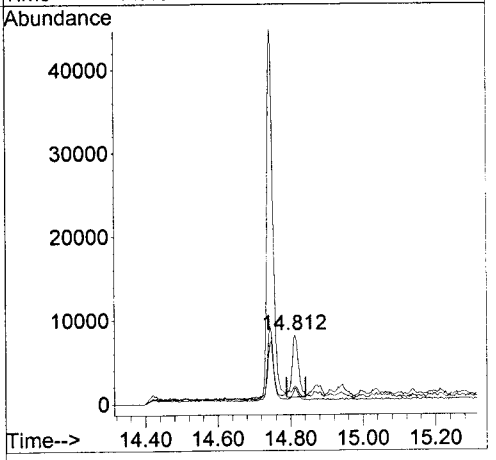
Tgt Ion:178 Resp: 9197

Ion	Ratio	Lower	Upper
178	100		
179	25.1	0.0	38.7
176	23.0	0.0	39.5



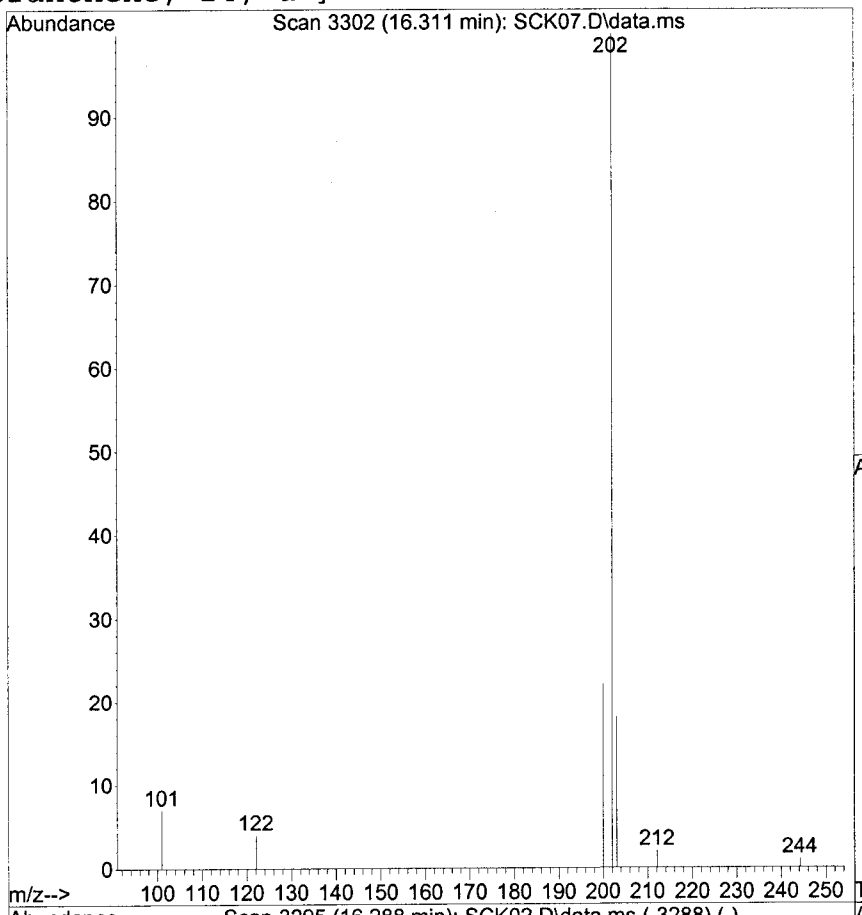
Ref





[Fluoranthene; 24; u]

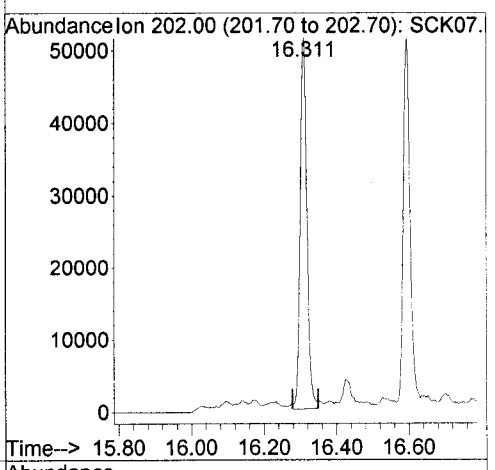
Raw



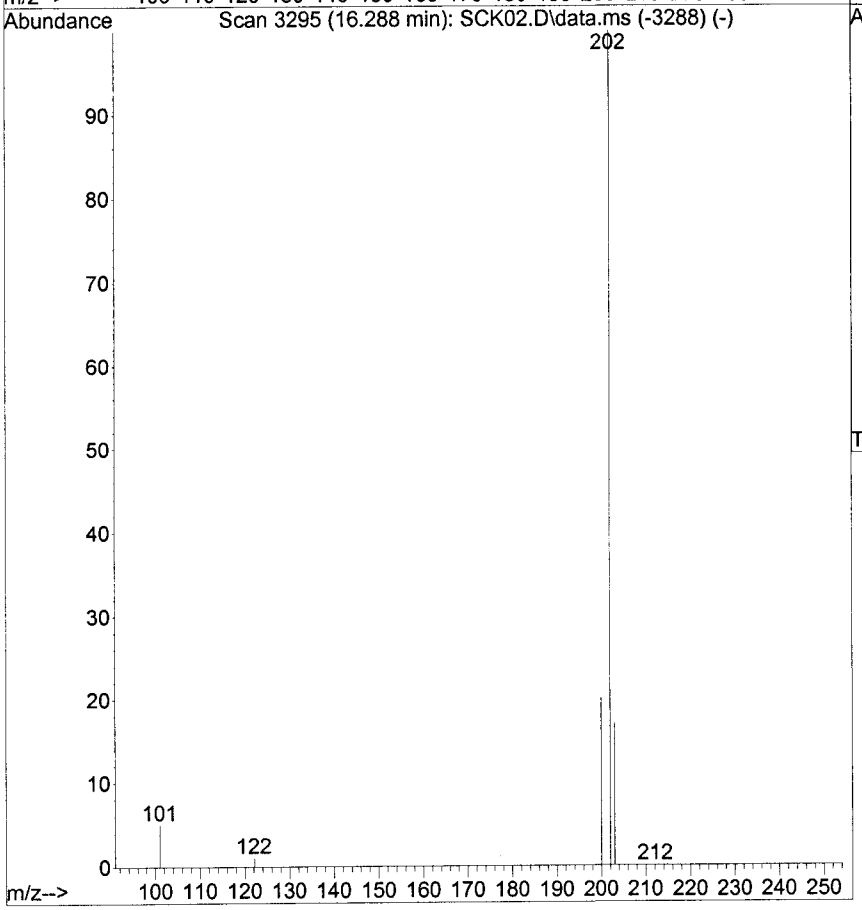
#16
Fluoranthene
Concen: 0.7230 ug/mL
RT: 16.311 min Scan# 3302
Delta R.T. 0.022 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

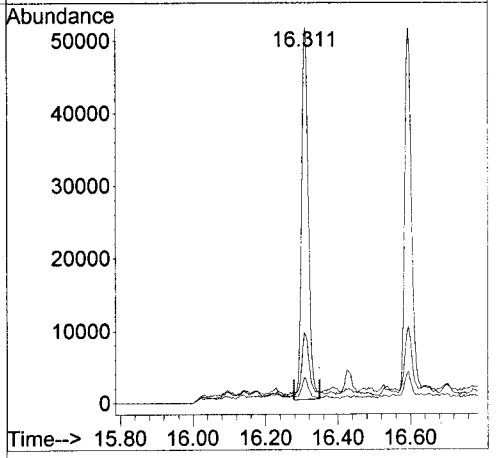
Tgt Ion:202 Resp: 66250

Ion	Ratio	Lower	Upper
202	100		
101	6.6	0.0	30.0
203	18.2	0.0	38.2



Ref

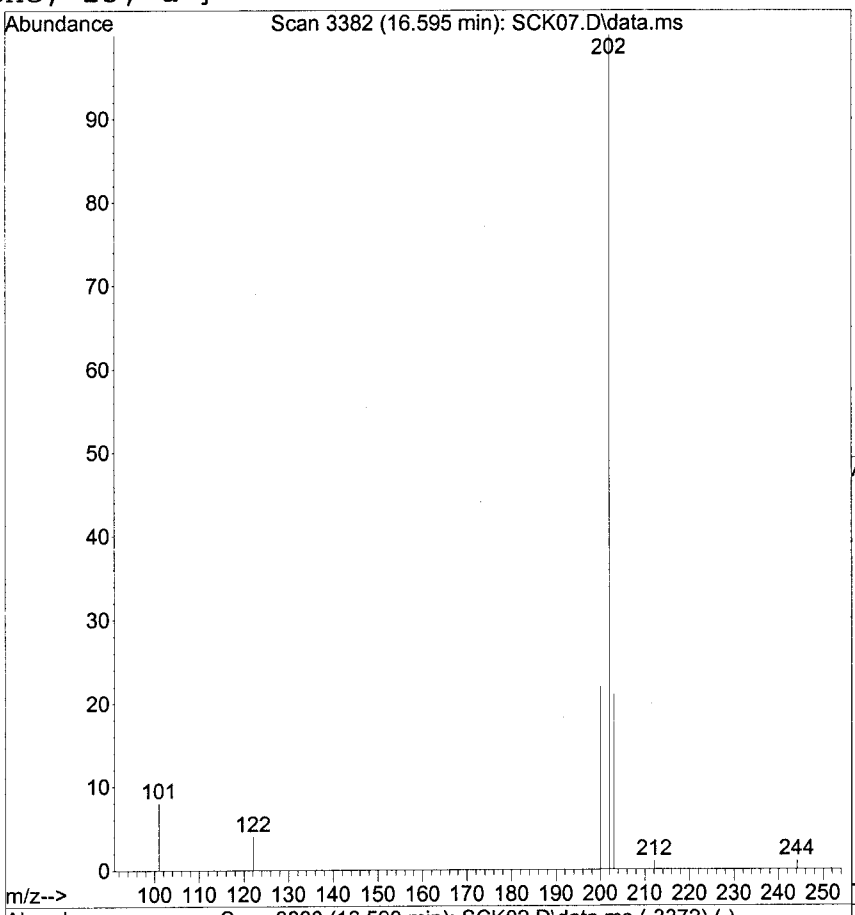




00232

[Pyrene; 23; u]

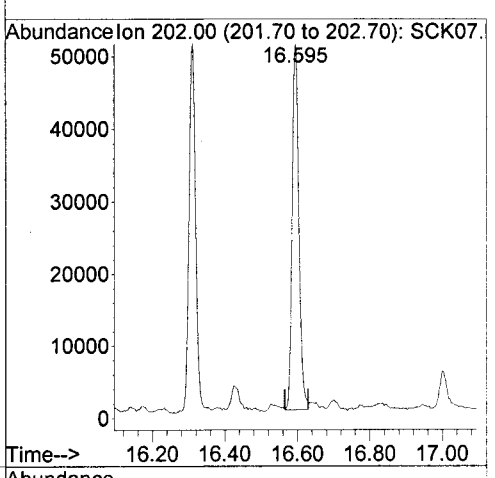
Raw



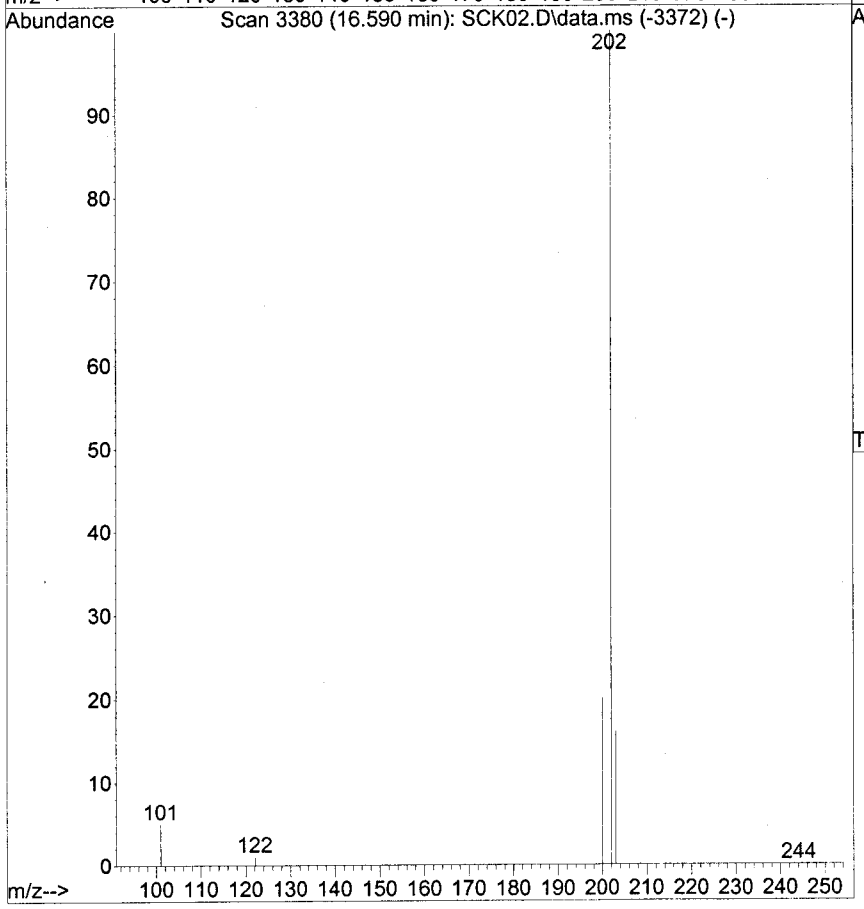
#18
Pyrene
Concen: 0.6987 ug/mL
RT: 16.595 min Scan# 3382
Delta R.T. 0.005 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

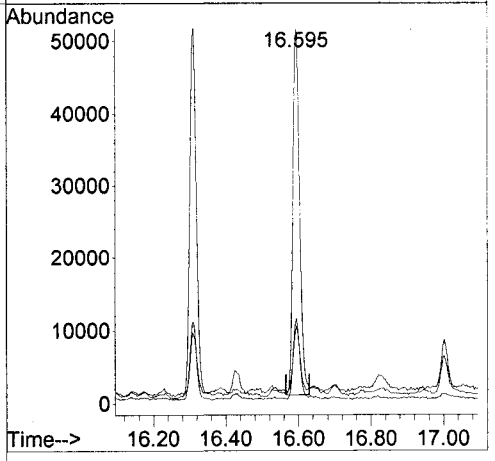
Tgt Ion:202 Resp: 65049

Ion	Ratio	Lower	Upper
202	100		
200	22.4	4.2	44.2
203	20.5	0.0	39.3



Ref

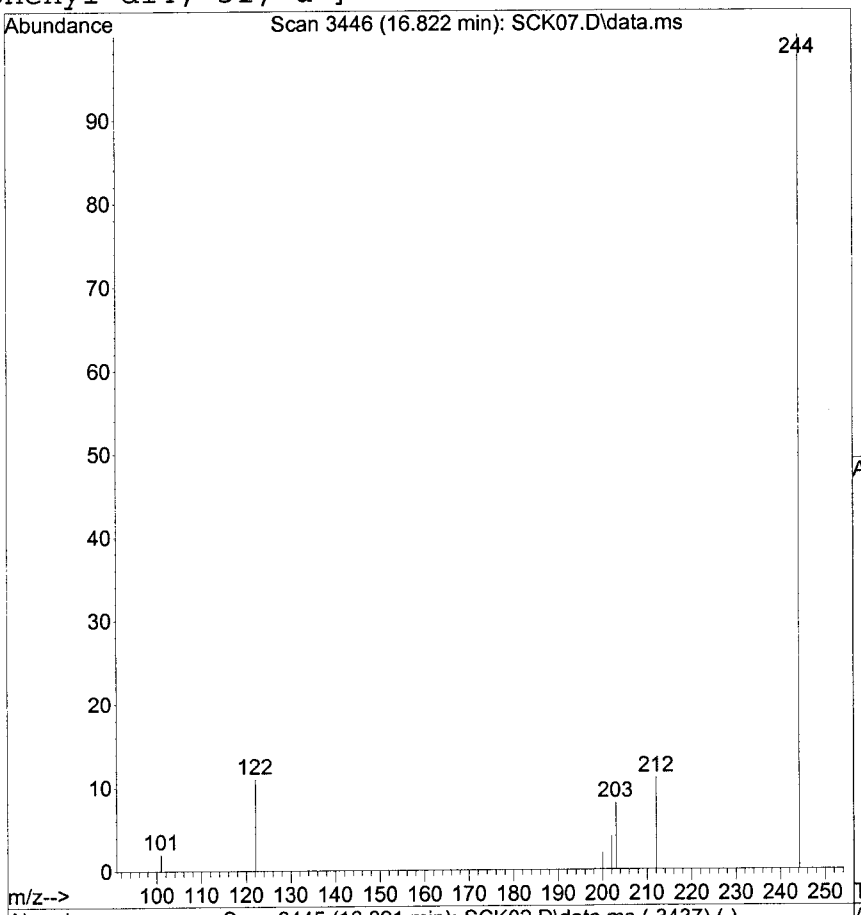




00233

[Terphenyl-d14; 31; u]

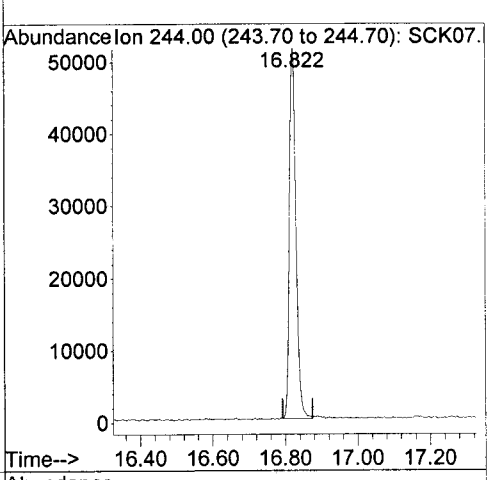
Raw



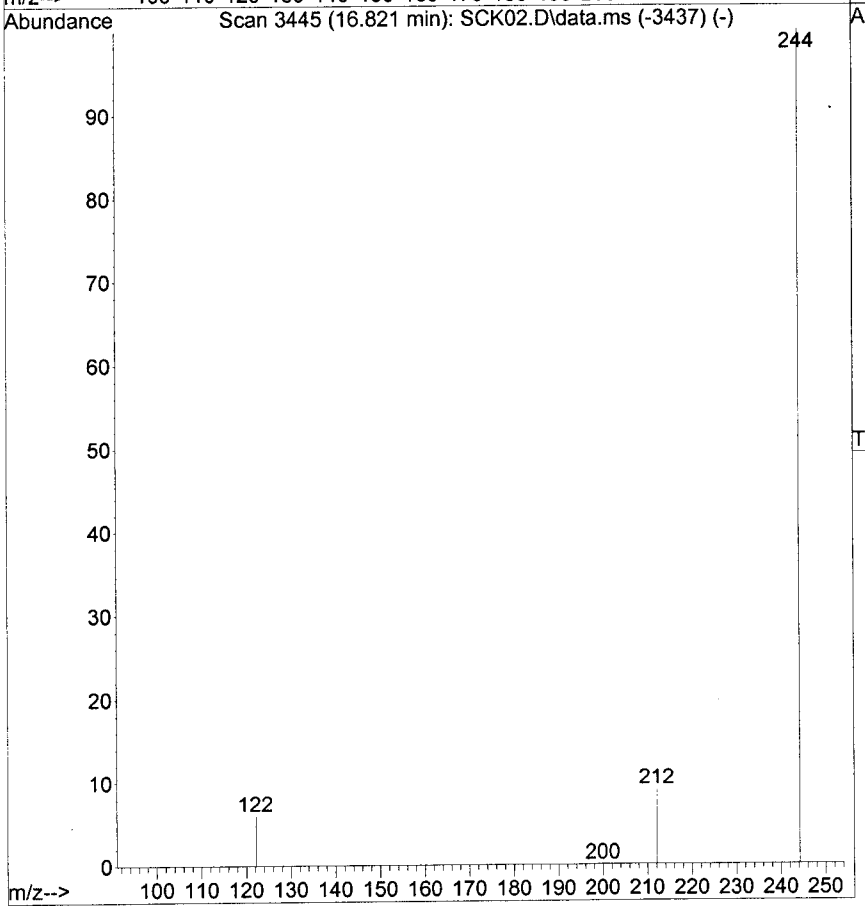
#19
Terphenyl-d14
Concen: 0.9318 ug/mL
RT: 16.822 min Scan# 3446
Delta R.T. 0.001 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

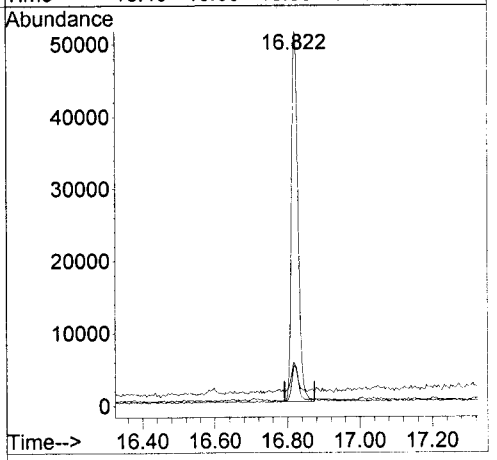
Tgt Ion:244 Resp: 65015

Ion	Ratio	Lower	Upper
244	100		
122	10.5	0.0	30.0
212	10.7	0.0	29.1



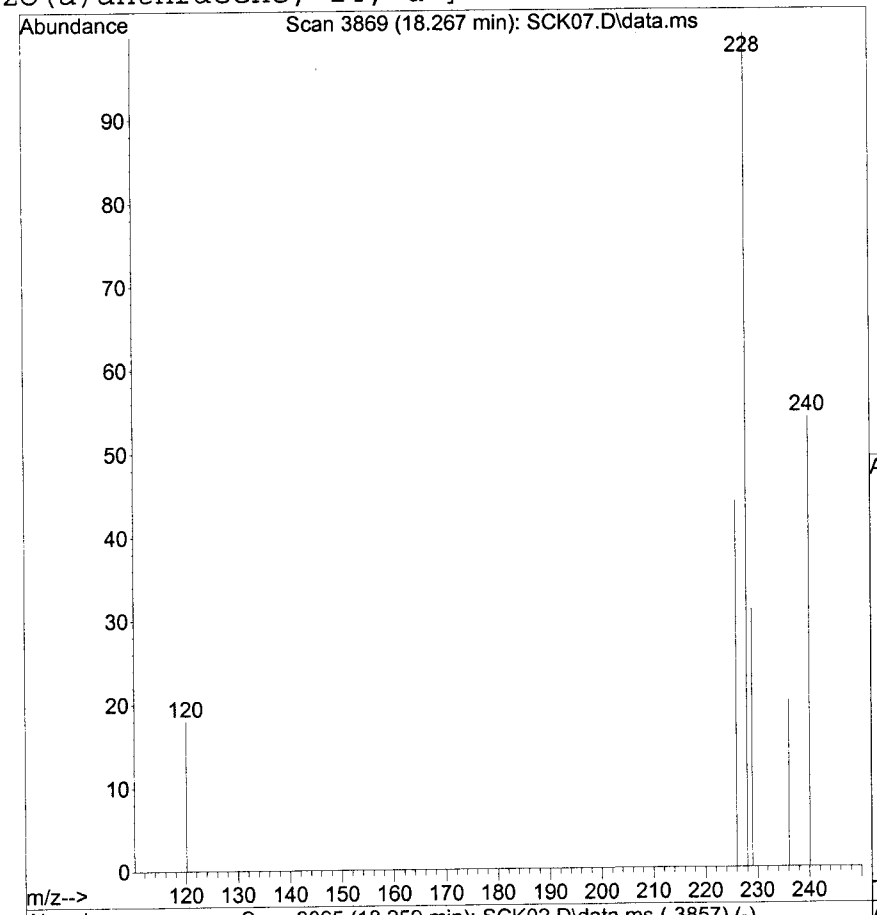
Ref





[Benzo(a)anthracene; 14; u]

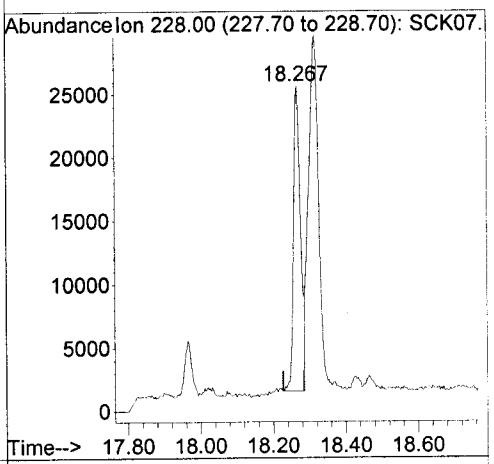
Raw



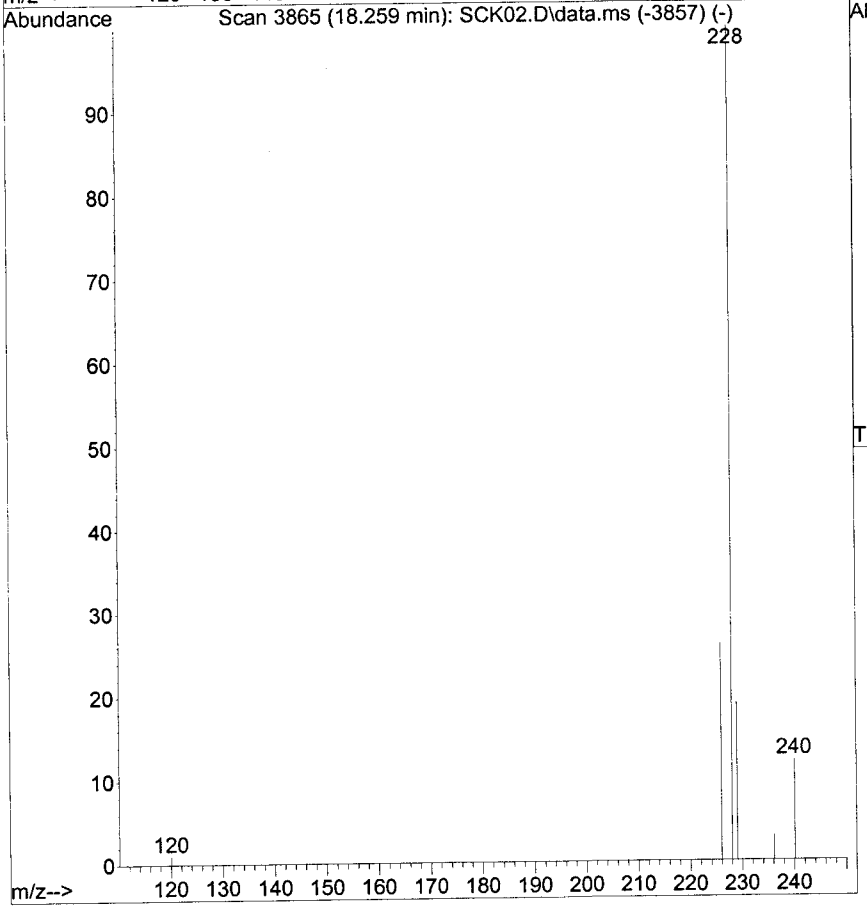
#20
Benzo(a)anthracene
Concen: 0.4116 ug/mL
RT: 18.267 min Scan# 3869
Delta R.T. 0.009 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

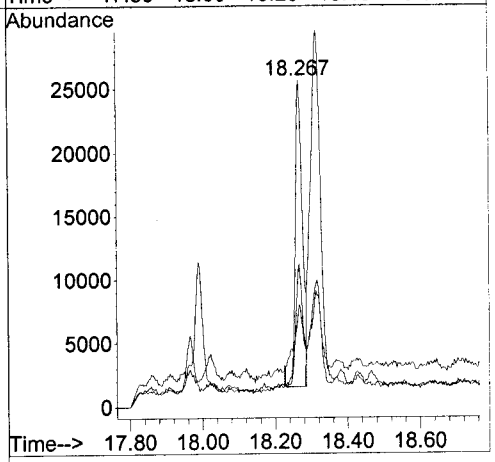
Tgt Ion:228 Resp: 32554

Ion	Ratio	Lower	Upper
228	100		
229	31.1	1.1	41.1
226	43.6	8.4	48.4



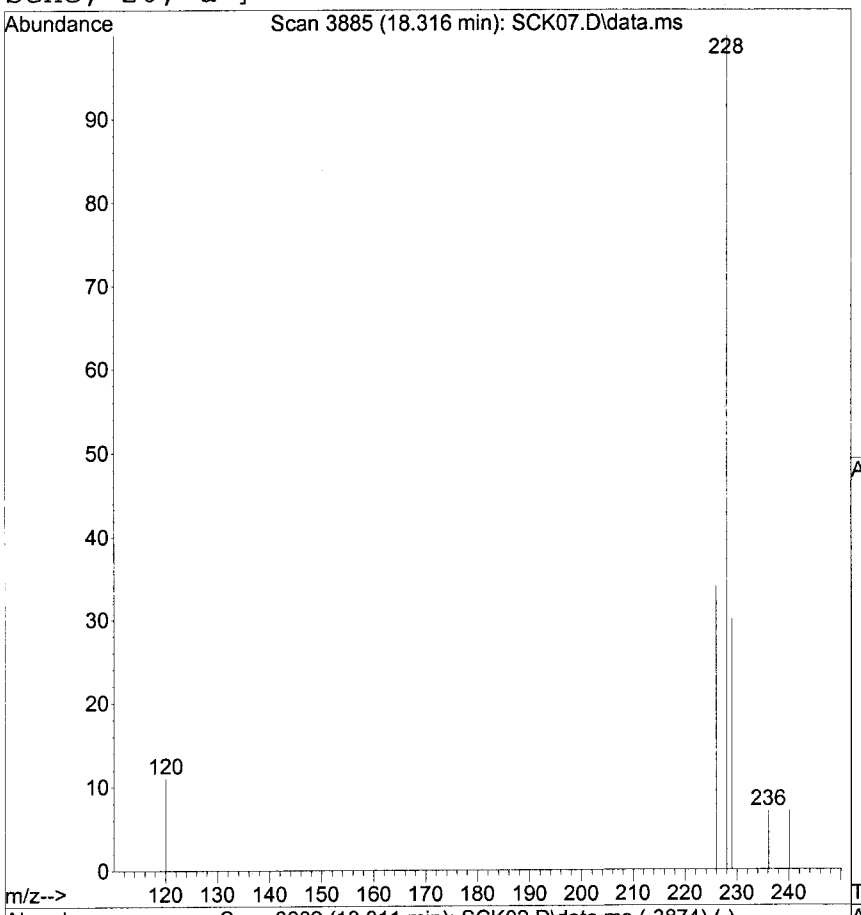
Ref





[Chrysene; 20; u]

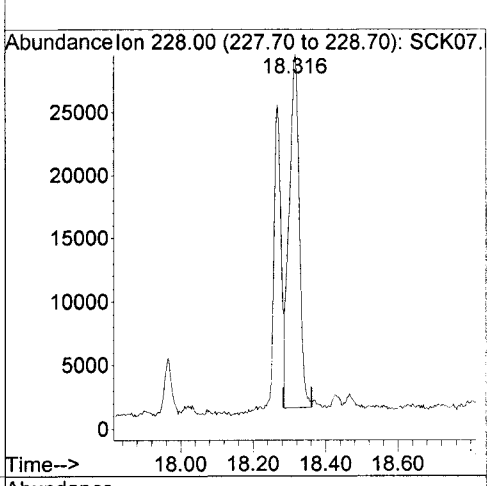
Raw



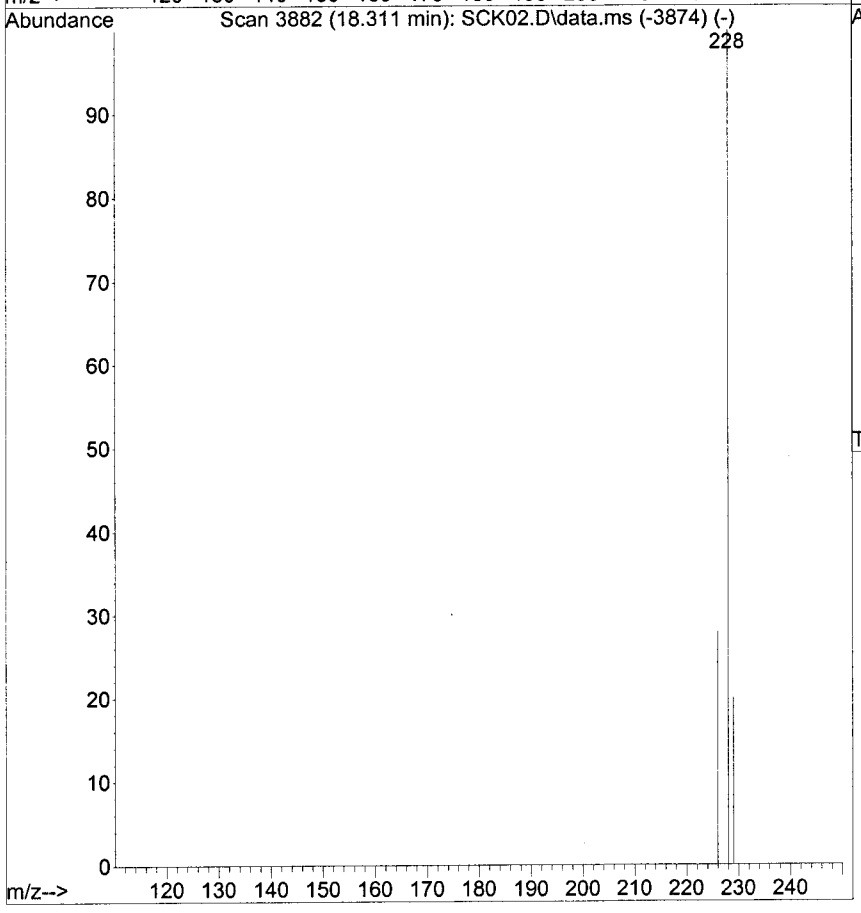
#21
Chrysene
Concen: 0.6065 ug/mL
RT: 18.316 min Scan# 3885
Delta R.T. 0.006 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

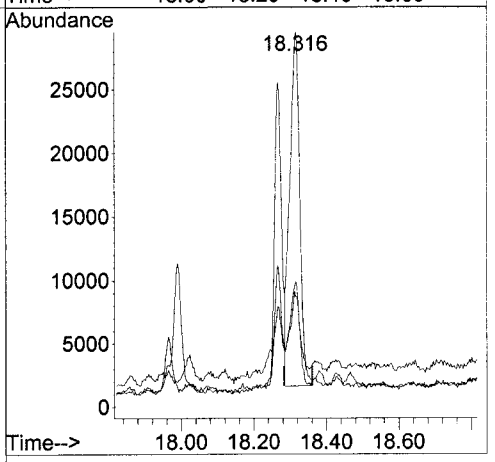
Tgt Ion:228 Resp: 53976

Ion	Ratio	Lower	Upper
228	100		
226	33.6	10.9	50.9
229	29.5	0.5	40.5



Ref

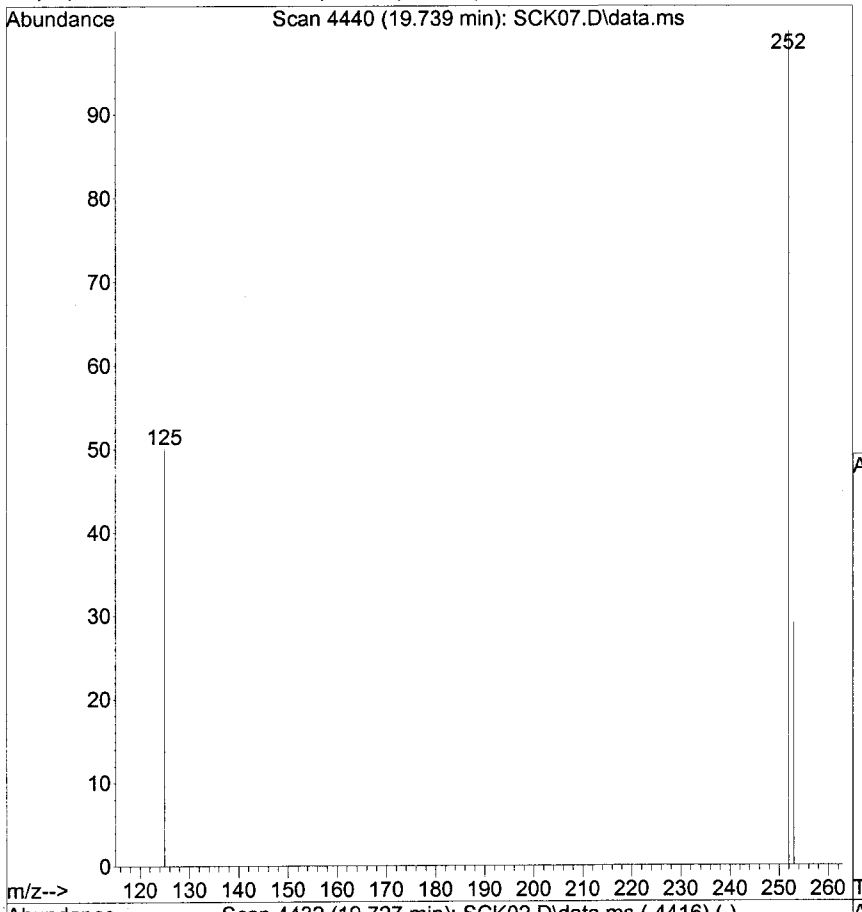




00236

[Benzo(b)fluoranthene; 25; MI; u]

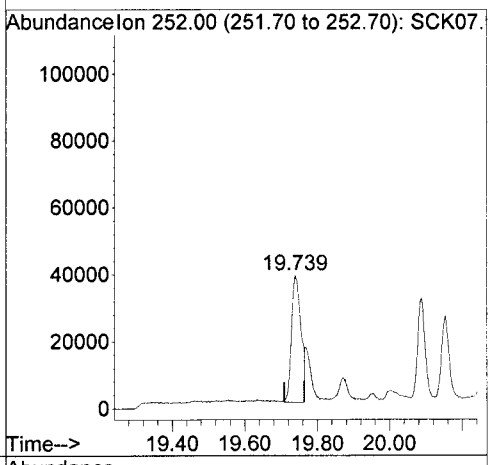
Raw



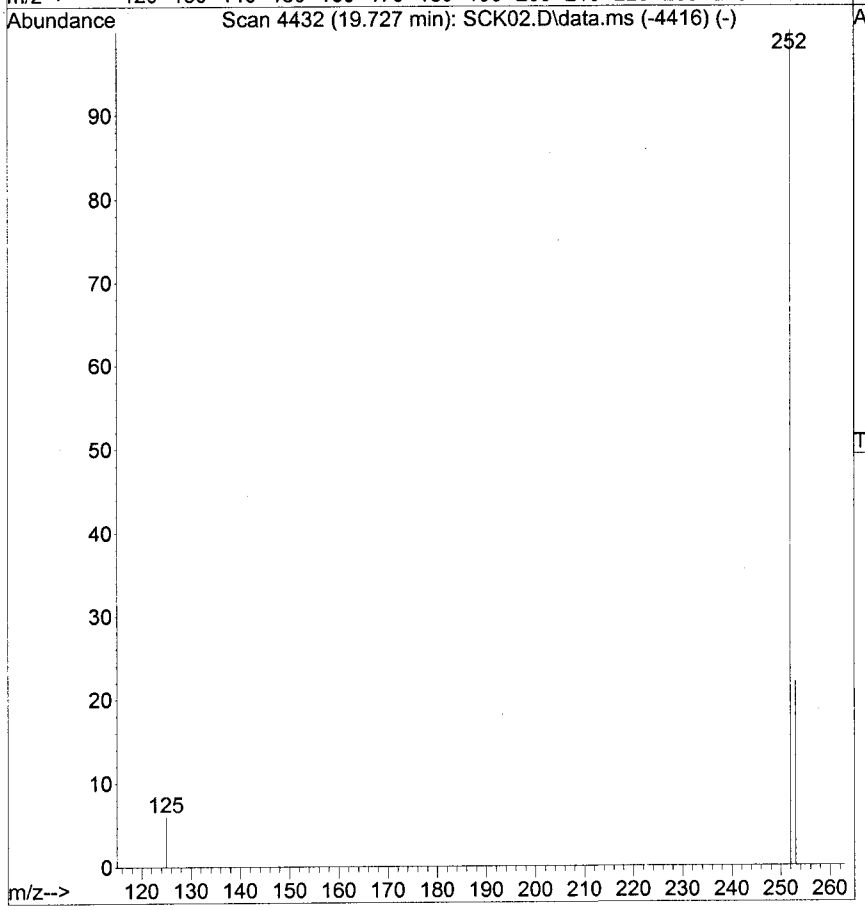
#23
Benzo(b)fluoranthene
Concen: 0.7556 ug/mL m
RT: 19.739 min Scan# 4440
Delta R.T. 0.012 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

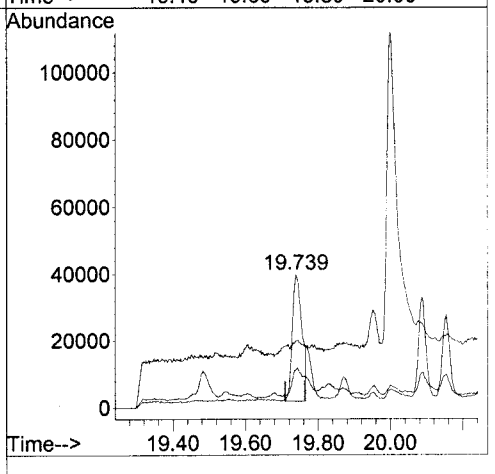
Tgt Ion:252 Resp: 68581

Ion	Ratio	Lower	Upper
252	100		
253	27.9	3.6	43.6
125	49.1	0.0	31.2#



Ref

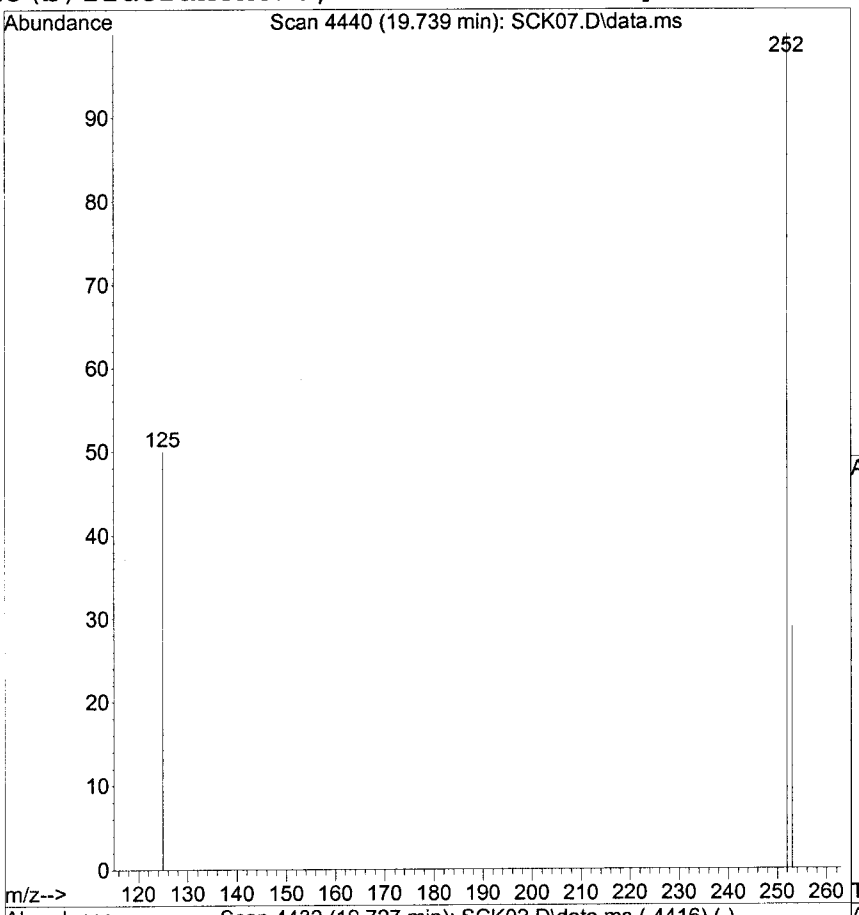




00237

[Benzo(b)fluoranthene; before version]

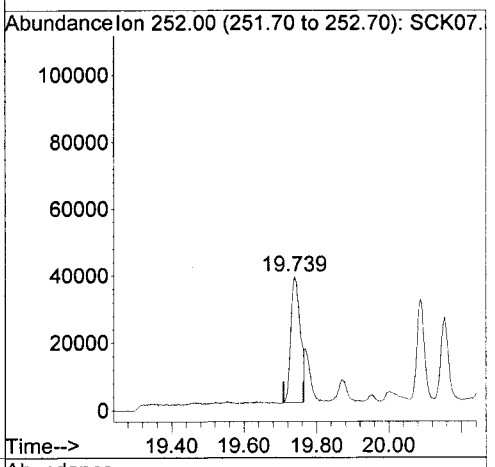
Raw



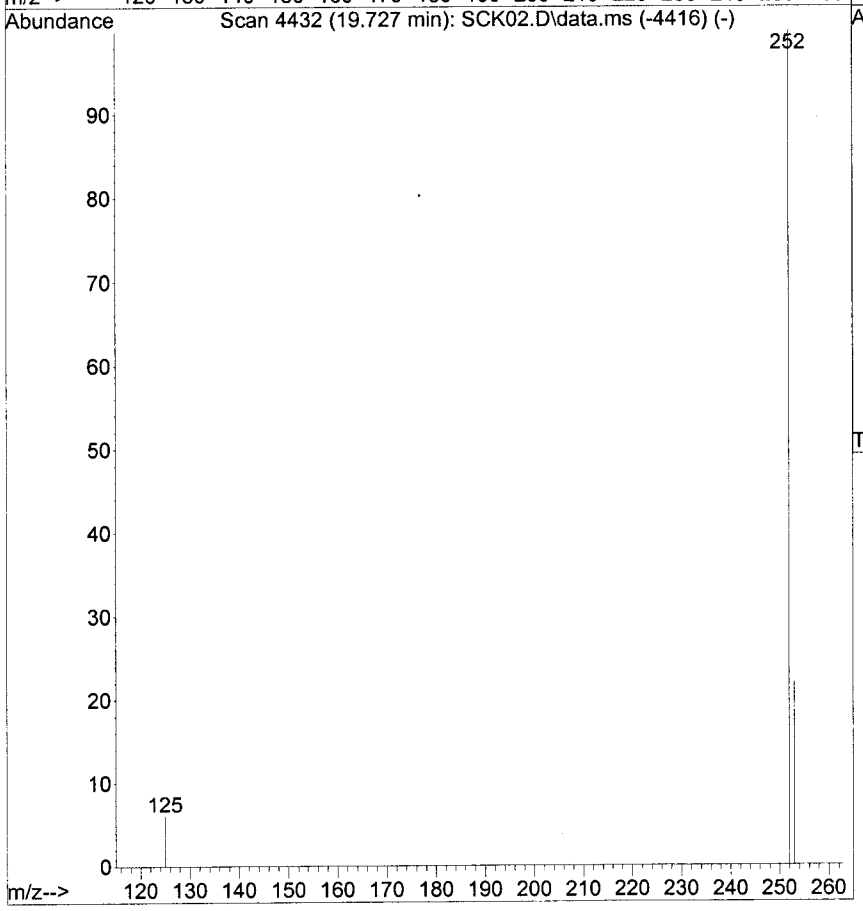
#23
Benzo(b)fluoranthene
Concen: 0.7401 ug/mL
RT: 19.739 min Scan# 4440
Delta R.T. 0.012 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

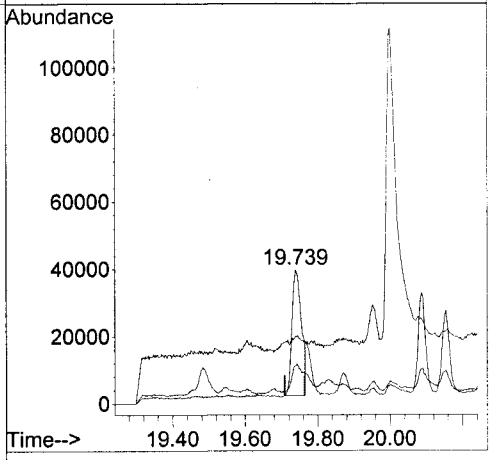
Tgt Ion:252 Resp: 67045

Ion	Ratio	Lower	Upper
252	100		
253	28.5	3.6	43.6
125	50.2	0.0	31.2#



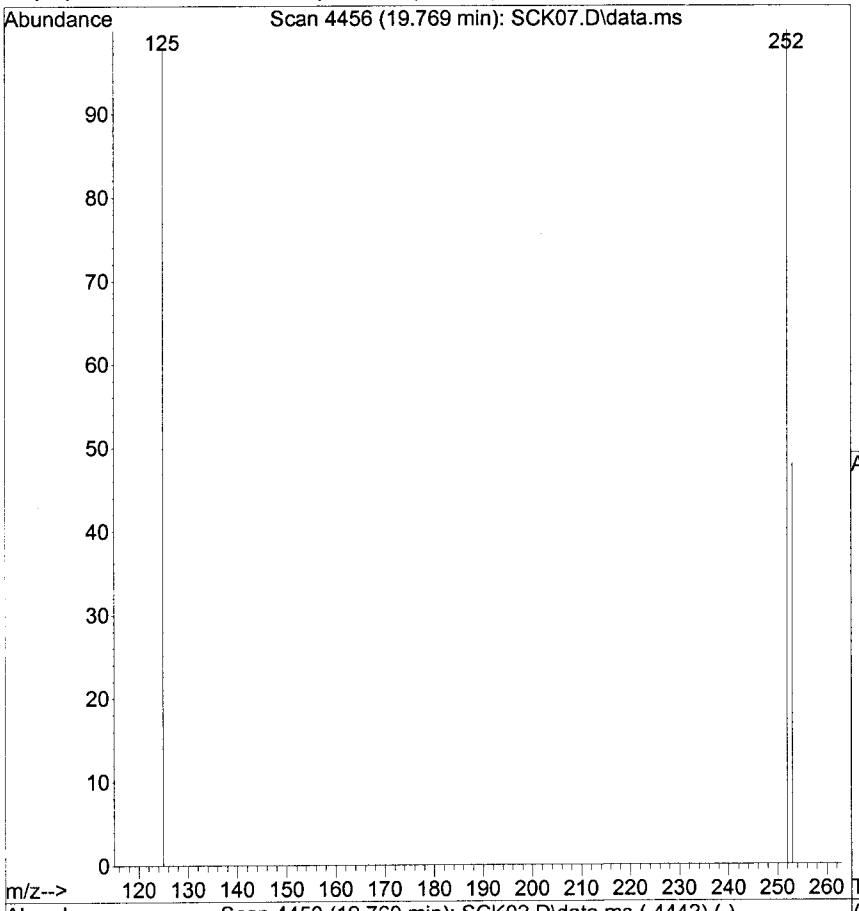
Ref





[Benzo(k)fluoranthene; 5.3; MI; u]

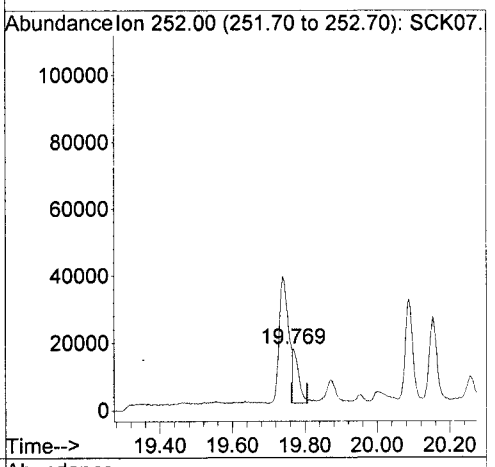
Raw



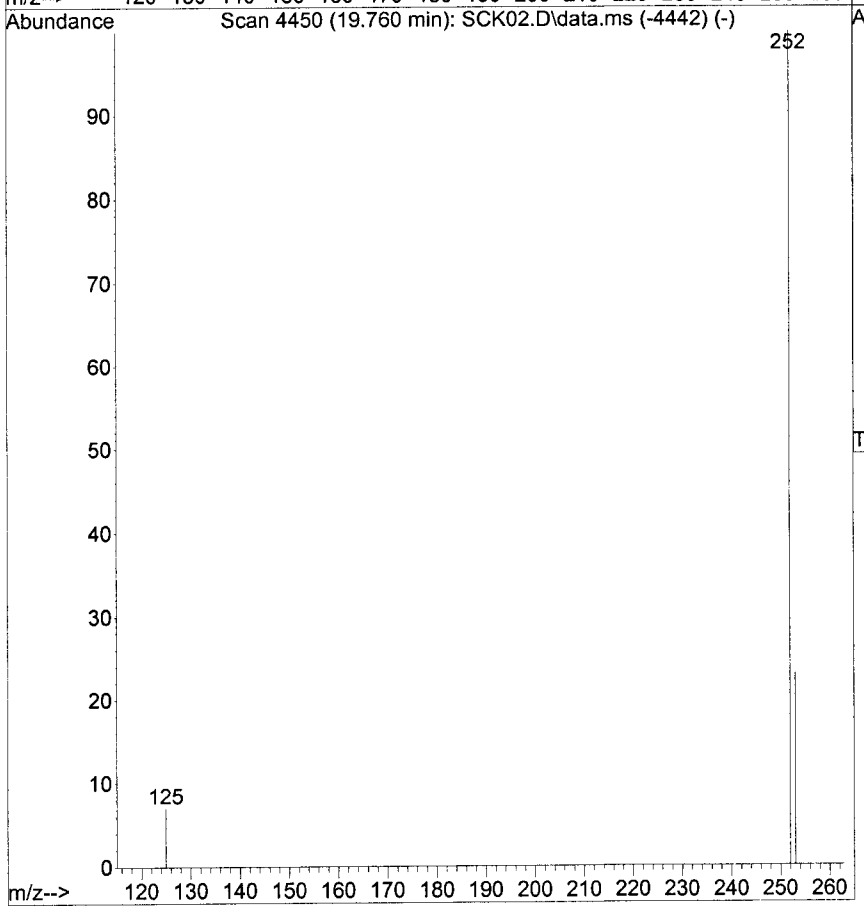
#24
Benzo(k)fluoranthene
Concen: 0.1601 ug/mL m
RT: 19.769 min Scan# 4456
Delta R.T. 0.009 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

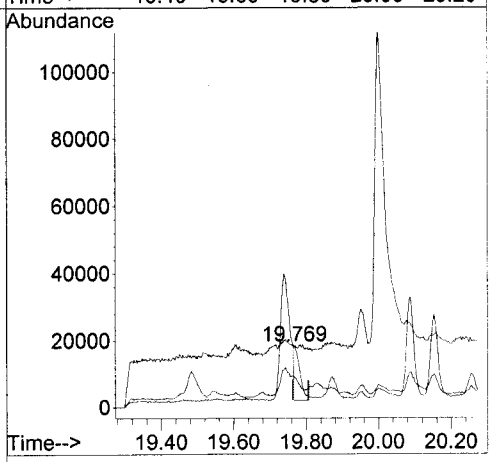
Tgt Ion:252 Resp: 18124

Ion	Ratio	Lower	Upper
252	100		
253	105.4	2.8	42.8#
125	185.6	0.0	31.7#



Ref

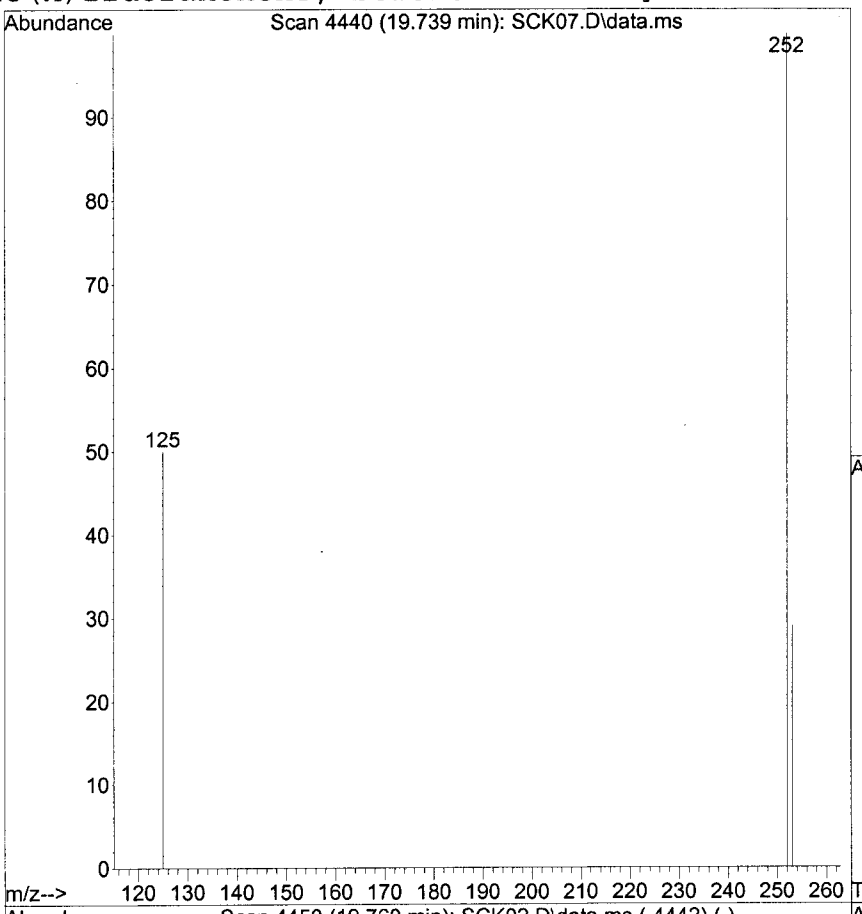




00239

[Benzo(k)fluoranthene; before version]

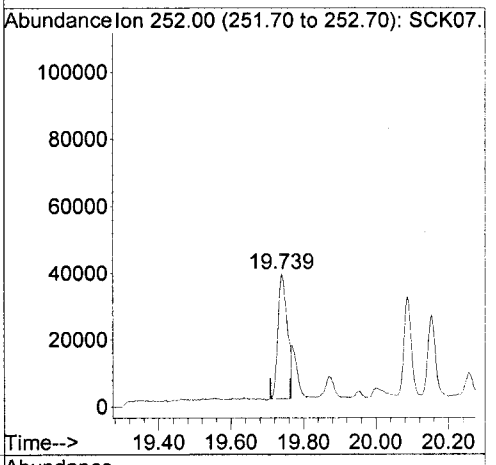
Raw



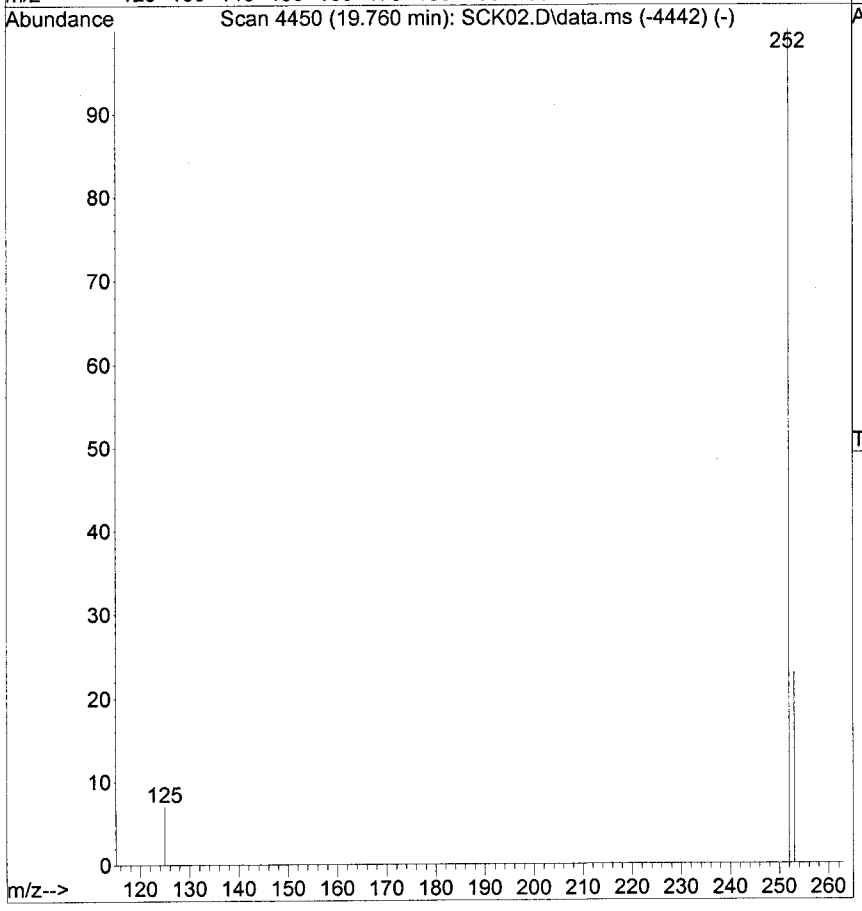
#24
Benzo(k)fluoranthene
Concen: 0.5924 ug/mL
RT: 19.739 min Scan# 4440
Delta R.T. -0.021 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

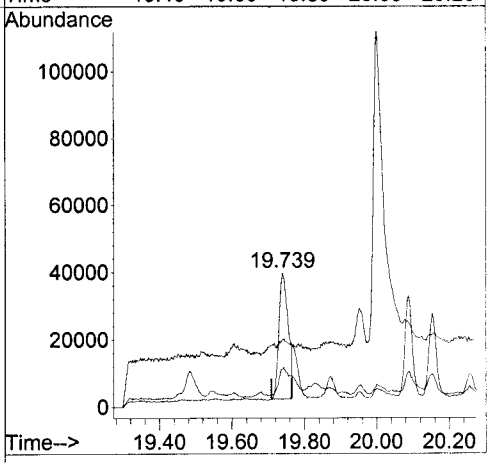
Tgt Ion:252 Resp: 67045

Ion	Ratio	Lower	Upper
252	100		
253	28.5	2.8	42.8
125	50.2	0.0	31.7#



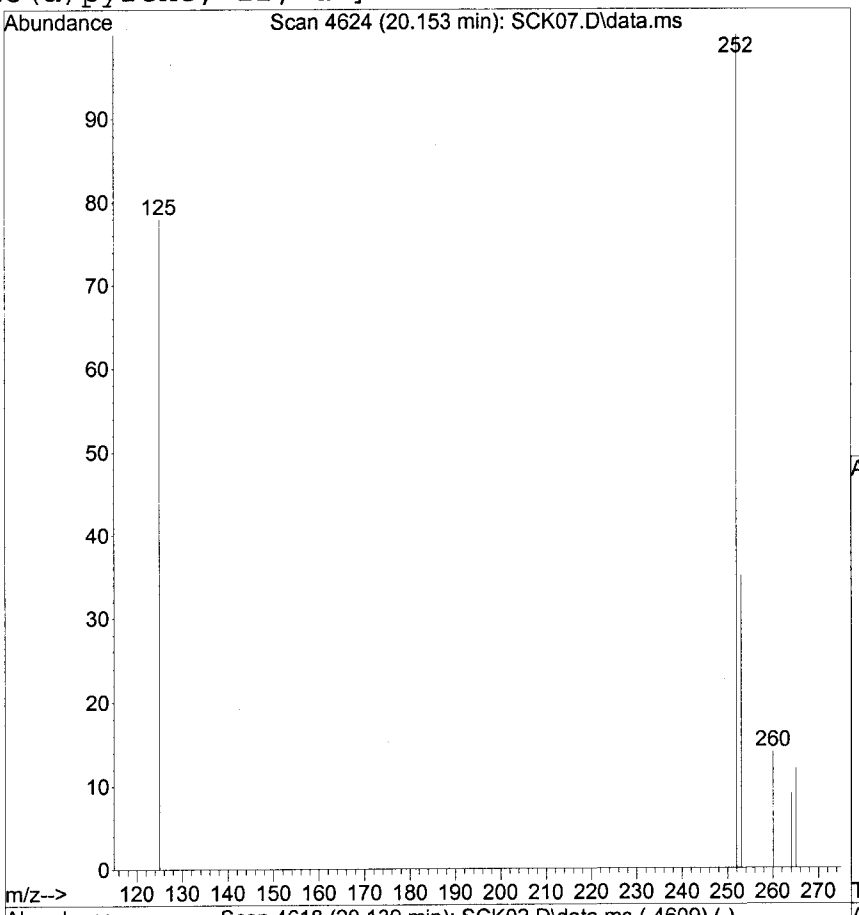
Ref





[Benzo(a)pyrene; 12; u]

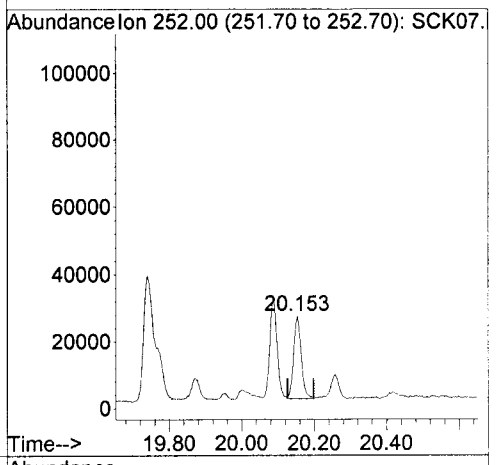
Raw



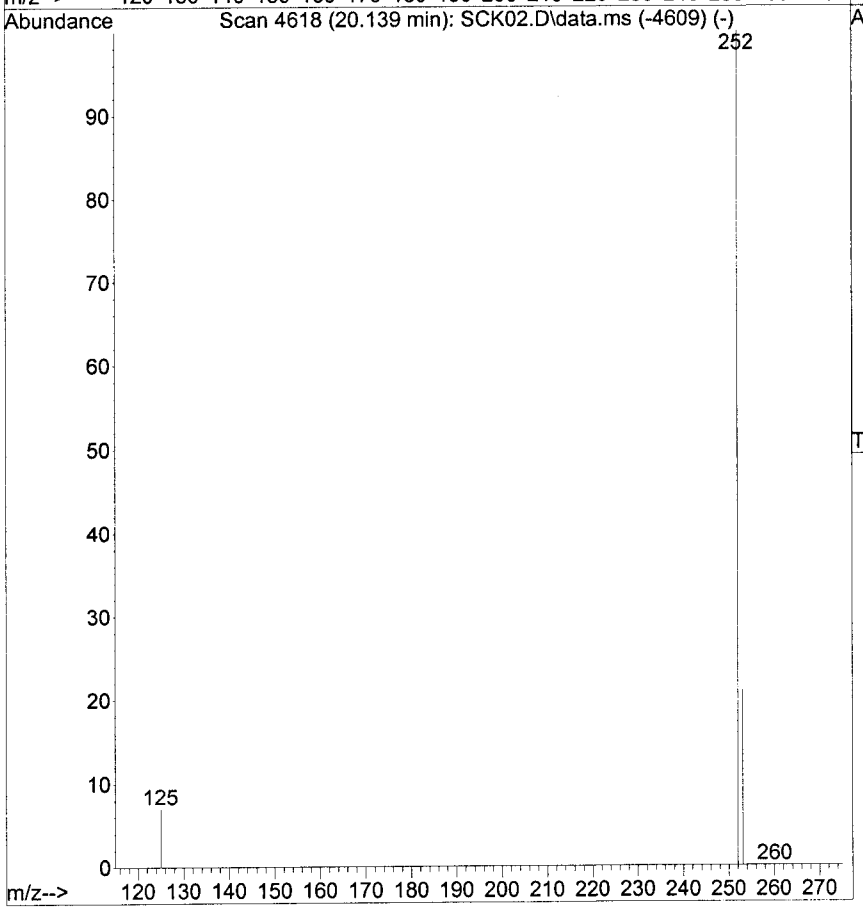
#25
Benzo(a)pyrene
Concen: 0.3623 ug/mL
RT: 20.153 min Scan# 4624
Delta R.T. 0.014 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

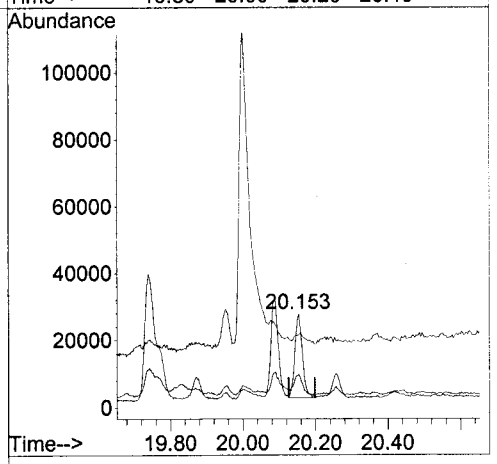
Tgt Ion:252 Resp: 35746

Ion	Ratio	Lower	Upper
252	100		
253	35.3	4.8	44.8
125	77.6	0.0	32.3#



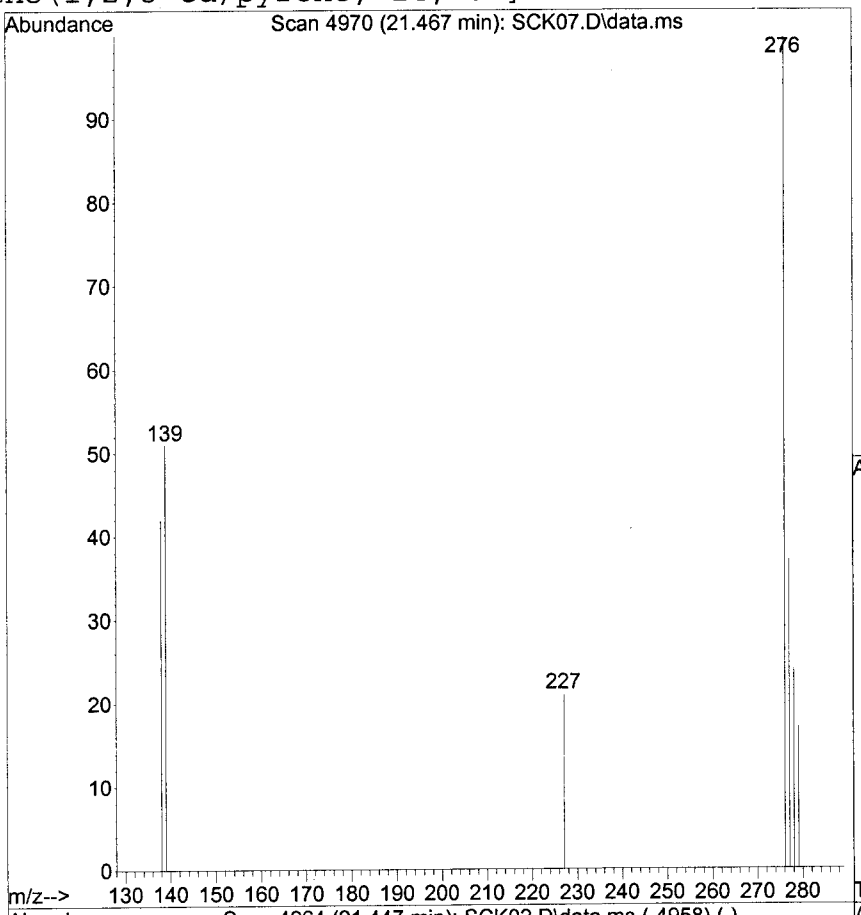
Ref





[Indeno(1,2,3-cd)pyrene; 14; u]

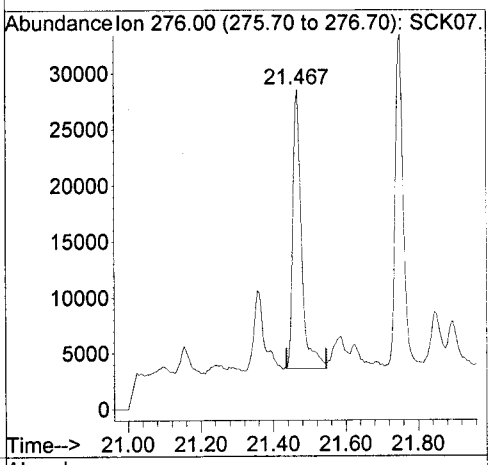
Raw



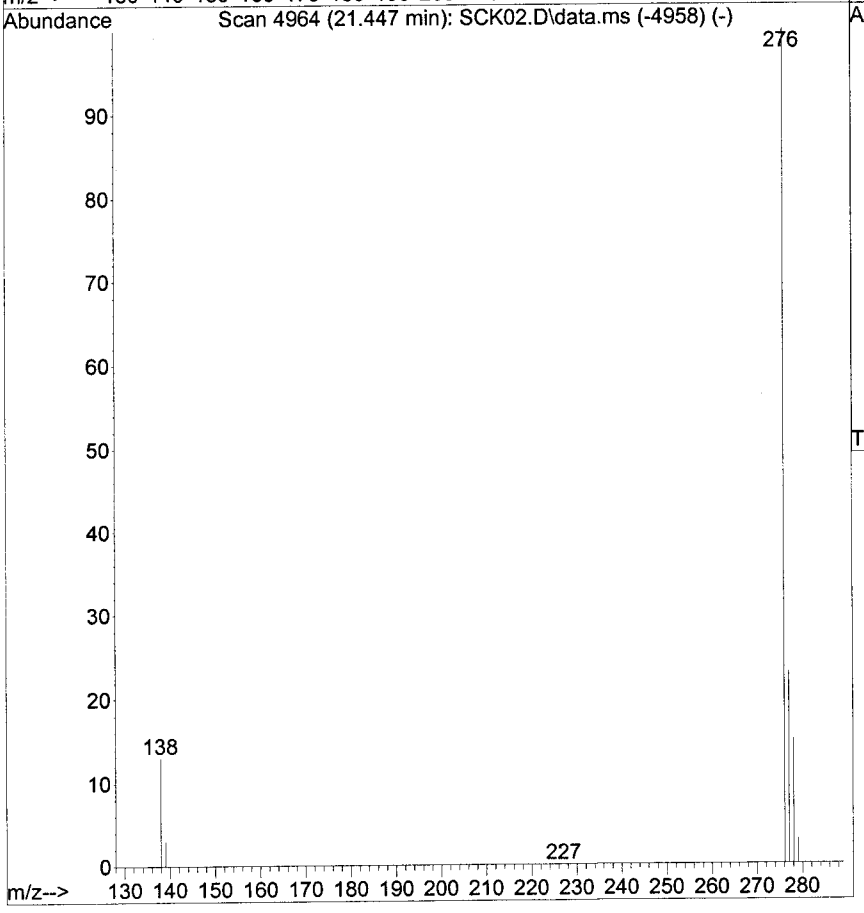
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.4345 ug/mL
RT: 21.467 min Scan# 4970
Delta R.T. 0.020 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

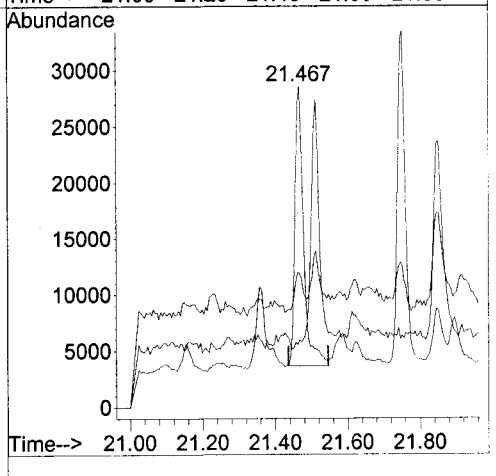
Tgt Ion:276 Resp: 41436

Ion	Ratio	Lower	Upper
276	100		
138	41.6	2.0	42.0
227	20.8	0.0	26.7



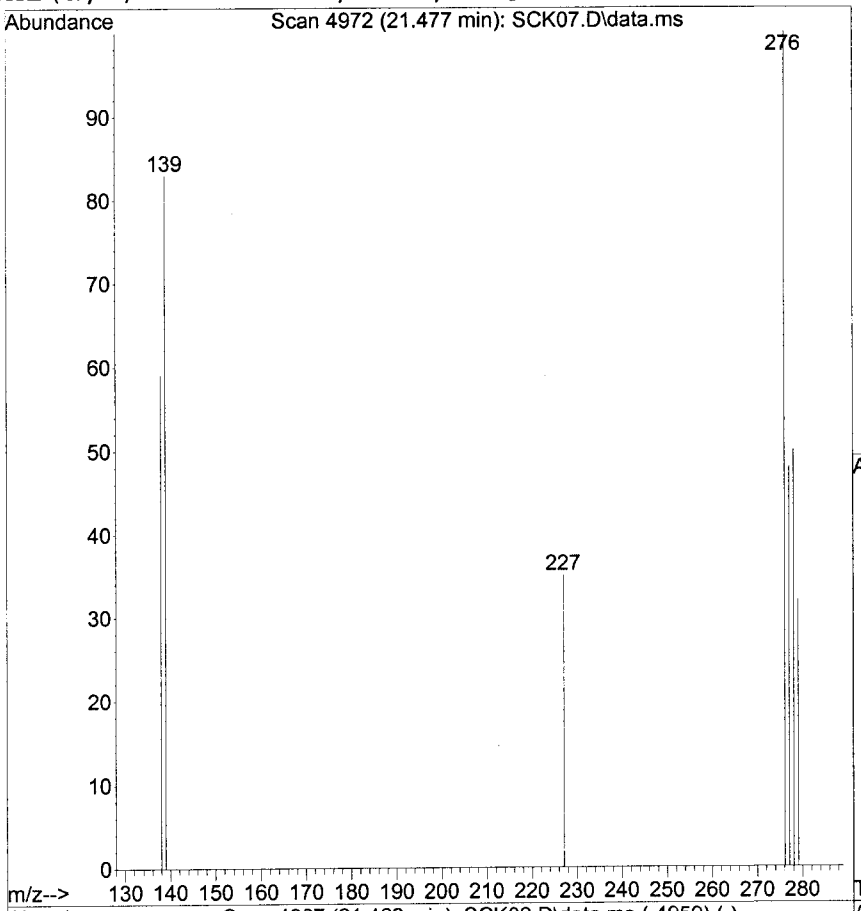
Ref





[Dibenz(a,h)anthracene; 5.0; u]

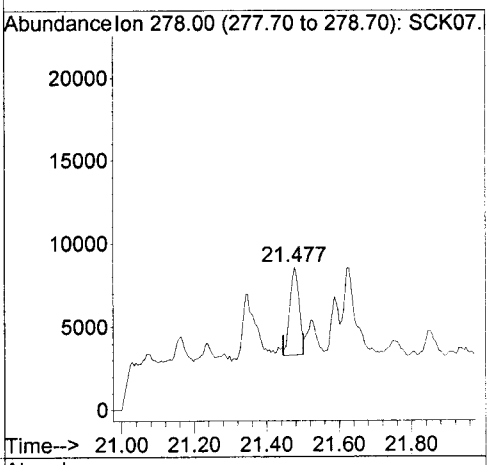
Raw



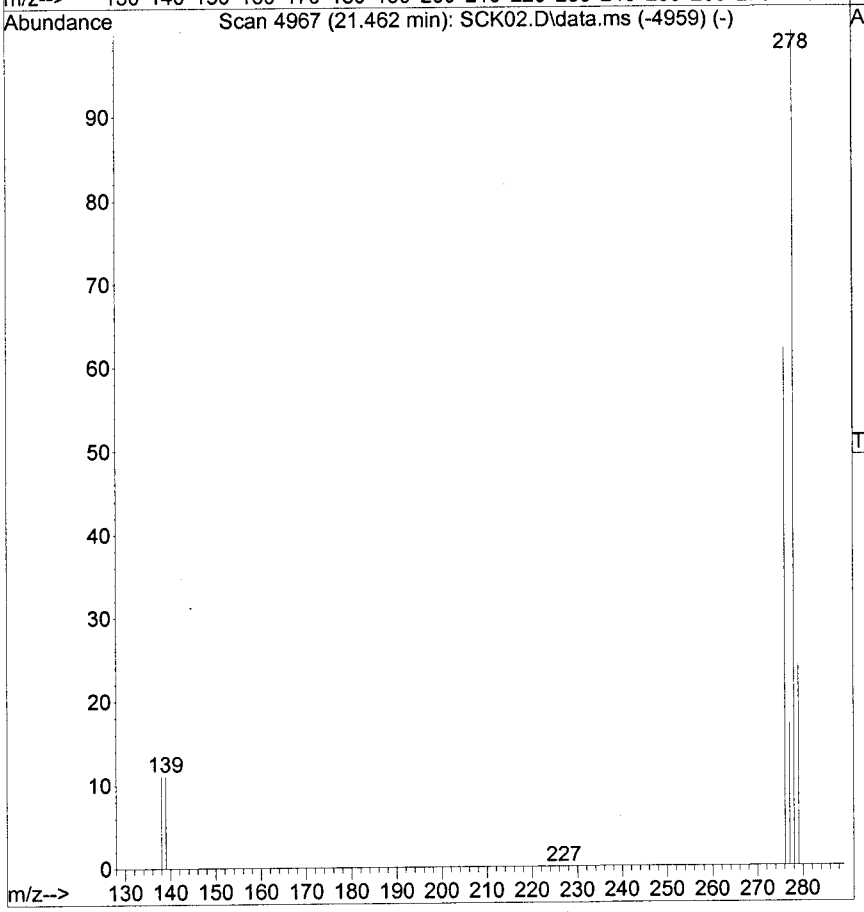
#27
Dibenz(a,h)anthracene
Concen: 0.1508 ug/mL
RT: 21.477 min Scan# 4972
Delta R.T. 0.015 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

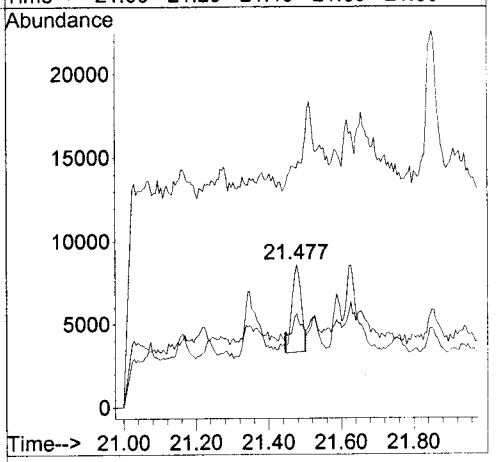
Tgt Ion:278 Resp: 9371

Ion	Ratio	Lower	Upper
278	100		
139	167.3	8.1	48.1#
279	65.1	15.9	55.9#



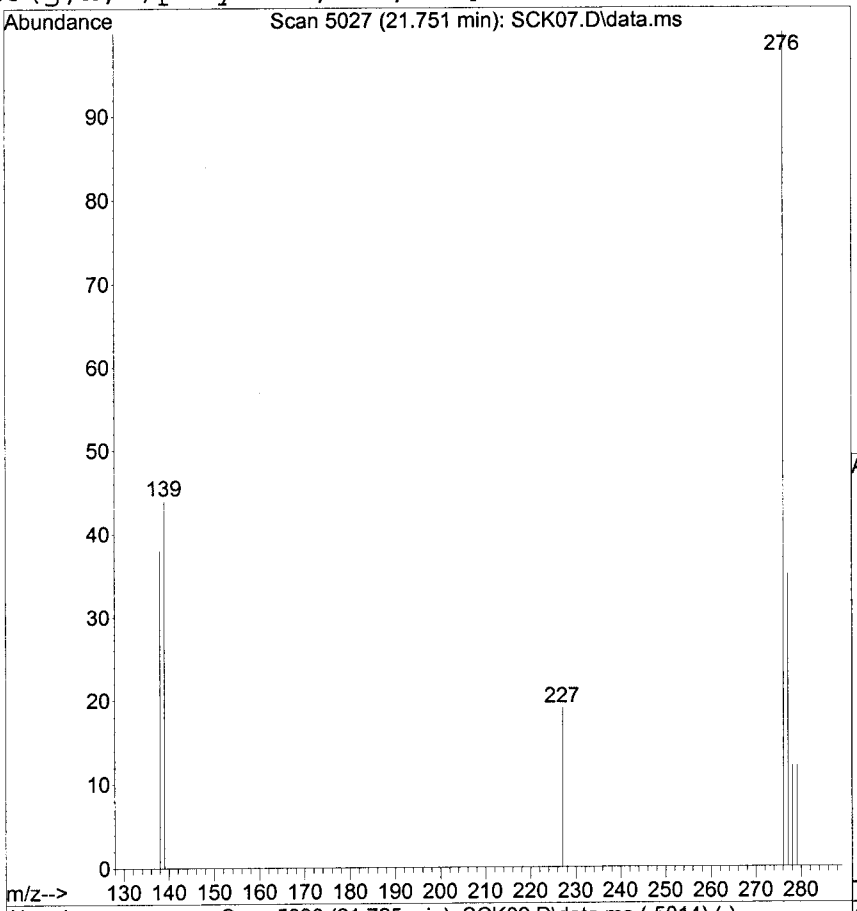
Ref





[Benzo(g,h,i)perylene; 16; u]

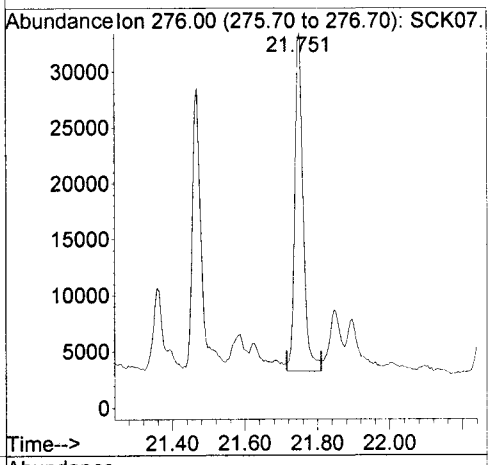
Raw



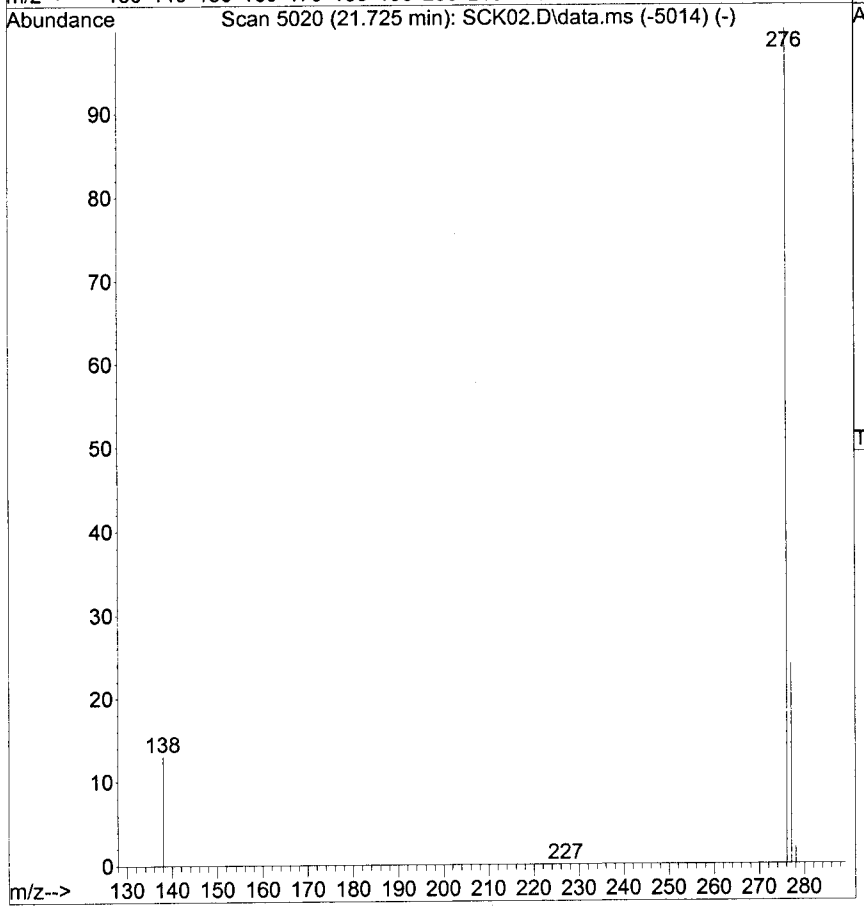
#28
Benzo(g,h,i)perylene
Concen: 0.4934 ug/mL
RT: 21.751 min Scan# 5027
Delta R.T. 0.025 min
Lab File: SCK07.D
Acq: 20 Mar 2008 1:13 pm

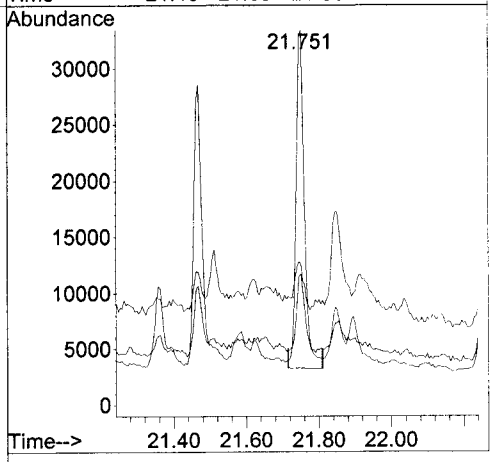
Tgt Ion:276 Resp: 48384

Ion	Ratio	Lower	Upper
276	100		
138	37.5	0.8	40.8
277	34.9	6.2	46.2



Ref





Curtis & Tompkins, Ltd.

QC Raw Data

CURTIS & TOMPKINS BLANK USER REPORT FOR 202043 MSSIM Soil
EPA 8270C-SIM

Inst	: MSBNA03	Lab ID	: QC433671		
Seqnum	: 528115647004.1	Matrix	: Soil		
File	: vck04	Batch	: 136173	Time	: 20-MAR-2008 09:02
Cal	: 528107208001	Caldate	: 14-MAR-2008		
IDF	: 1.0	Raw Units	: ug/mL	Units	: ug/Kg

30.07 g --> 1.0 ml = 0.03326 ml/g PDF

Analyte	Raw	Result	RL	Flags
Naphthalene	0.004100	ND	5.0	u
2-Methylnaphthalene	0.003000	ND	5.0	u
Acenaphthylene	0.0008000	ND	5.0	u
Acenaphthene	0.003400	ND	5.0	u
Fluorene	0	ND	5.0	u
Phenanthrene	0.001800	ND	5.0	u
Anthracene	0.002000	ND	5.0	u
Fluoranthene	0.002000	ND	5.0	u
Pyrene	0.002600	ND	5.0	u
Benzo(a)anthracene	0.004000	ND	5.0	u
Chrysene	0.001400	ND	5.0	u
Benzo(b)fluoranthene	0.001500	ND	5.0	u
Benzo(k)fluoranthene	0.001500	ND	5.0	u
Benzo(a)pyrene	0.001800	ND	5.0	u
Indeno(1,2,3-cd)pyrene	0.001800	ND	5.0	u
Dibenz(a,h)anthracene	0.001200	ND	5.0	u
Benzo(g,h,i)perylene	0.004200	ND	5.0	u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.7482	33.26	24.88	75	23-120	u
2-Fluorobiphenyl	0.8060	33.26	26.80	81	30-115	u
Terphenyl-d14	0.7945	33.26	26.42	79	18-137	u

ISTD (CCV vck03)	CCV Area	BLANK Area	%Drift	CCV RT	BLANK RT	Drift
Naphthalene-d8	128478	103589	-19.37	9.20	9.20	0.00
Acenaphthene-d10	89562	75002	-16.26	11.51	11.51	0.00
Phenanthrene-d10	151421	138433	-8.58	13.45	13.45	0.00
Chrysene-d12	155293	125875	-18.94	16.91	16.91	0.00
Perylene-d12	140300	114153	-18.64	18.64	18.64	0.00

JAJ: 03/20/08 LLH: 03/20/08 EAH: 03/21/08

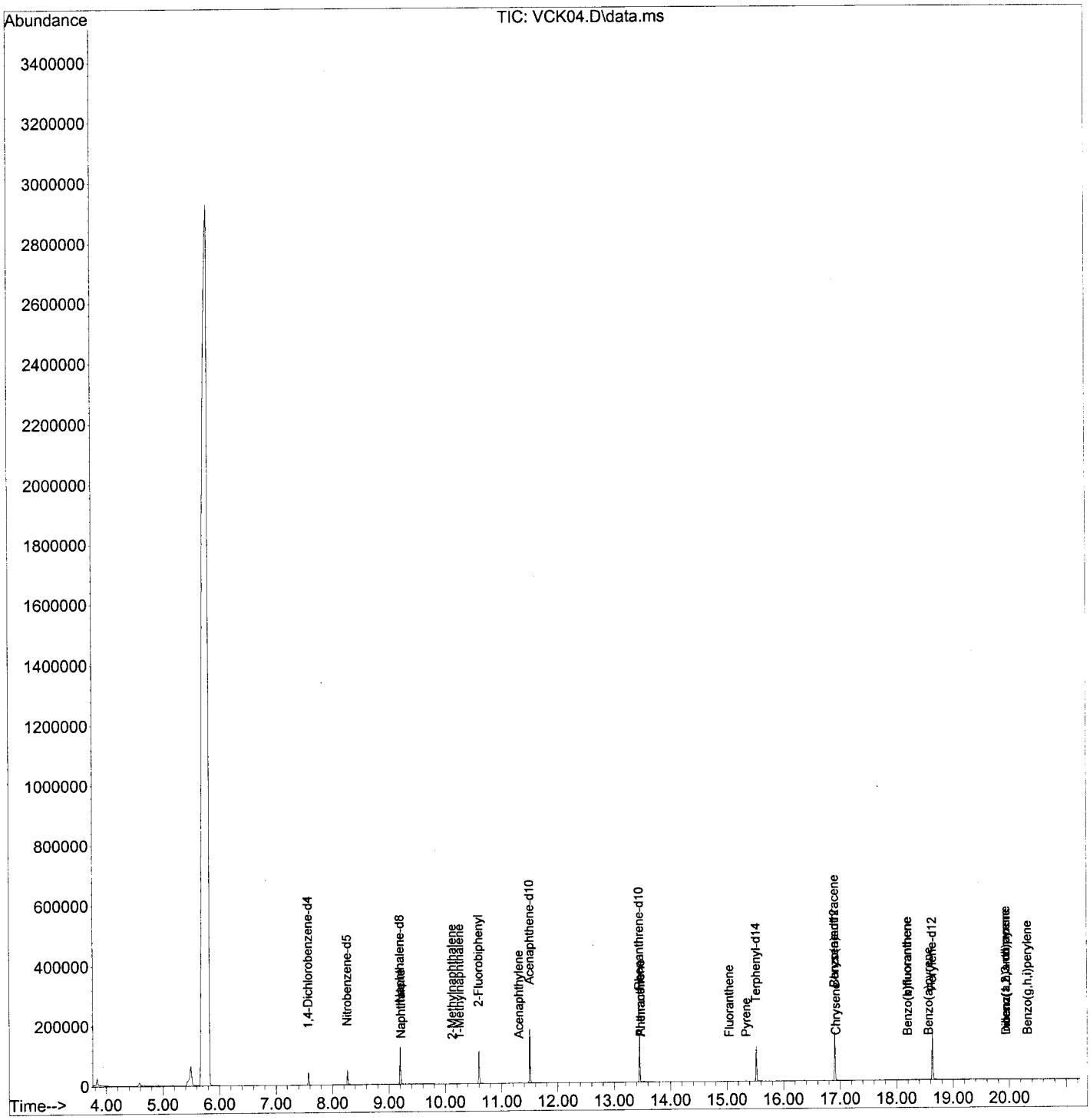
u=use

528115647004.1

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : VCK04.D
Acq On : 20 Mar 2008 9:02 am
Operator :
Sample : MB,QC433671
Misc : 136173,1,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 20 10:24:48 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Wed Mar 19 13:05:50 2008
Response via : Initial Calibration



00247

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : VCK04.D
Acq On : 20 Mar 2008 9:02 am
Operator :
Sample : MB,QC433671
Misc : 136173,1,
ALS Vial : 3 Sample Multiplier: 1

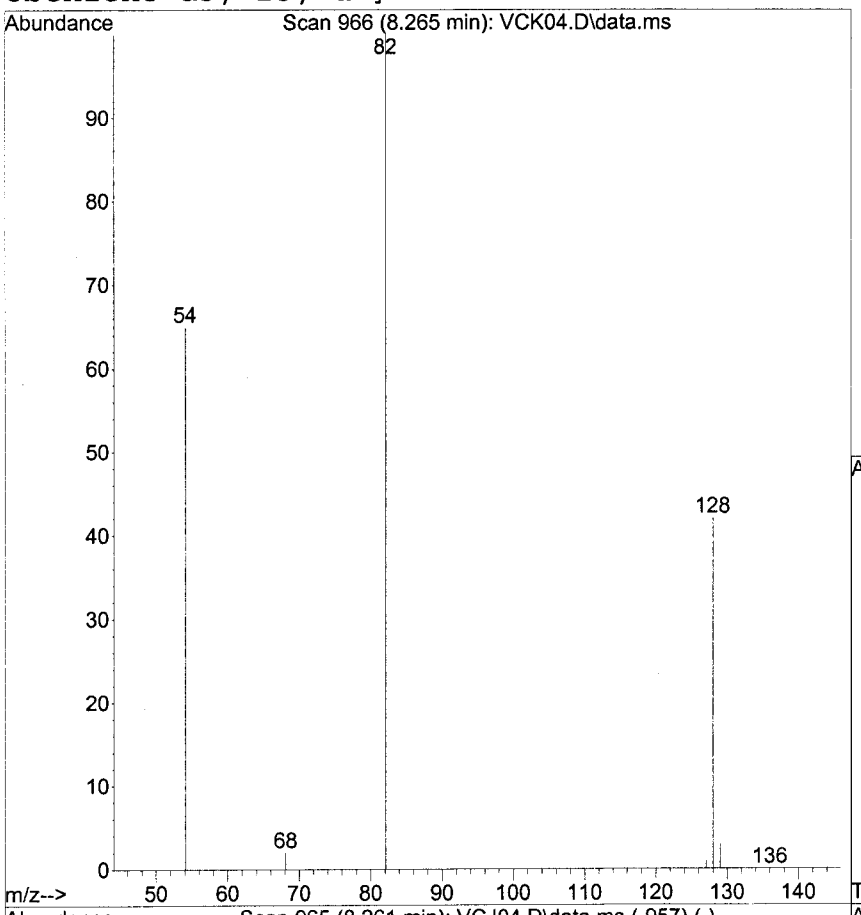
Quant Time: Mar 20 10:24:48 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Wed Mar 19 13:05:50 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units		Rel.RT
1) 1,4-Dichlorobenzene-d4	7.579	152	30230	1.0000	ug/mL		0.00
3) Naphthalene-d8	9.202	136	103589	1.0000	ug/mL		0.00
8) Acenaphthene-d10	11.506	164	75002	1.0000	ug/mL		0.00
13) Phenanthrene-d10	13.451	188	138433	1.0000	ug/mL		0.00
17) Chrysene-d12	16.906	240	125875	1.0000	ug/mL		0.00
22) Perylene-d12	18.636	264	114153	1.0000	ug/mL		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.			
4) Nitrobenzene-d5	8.265	82	22267	0.7482	ug/mL		85
5) Naphthalene	9.226	128	478	0.0041	ug/mL		73
6) 2-Methylnaphthalene	10.126	142	234	0.0030	ug/mL		99
7) 1-Methylnaphthalene	10.257	142	249	0.0030	ug/mL		94
9) 2-Fluorobiphenyl	10.598	172	79215	0.8060	ug/mL		98
10) Acenaphthylene	11.321	152	100	0.0008	ug/mL	#	24
11) Acenaphthene	11.502	154	275	0.0034	ug/mL	#	24
12) Fluorene	0.000	166	0	N.D.			
14) Phenanthrene	13.482	178	298	0.0018	ug/mL		69
15) Anthracene	13.482	178	298	0.0020	ug/mL		70
16) Fluoranthene	15.044	202	345	0.0020	ug/mL	#	64
18) Pyrene	15.345	202	450	0.0026	ug/mL		81
19) Terphenyl-d14	15.519	244	98903	0.7945	ug/mL		84
20) Benzo(a)anthracene	16.903	228	580	0.0040	ug/mL		78
21) Chrysene	16.936	228	217	0.0014	ug/mL	#	76
23) Benzo(b)fluoranthene	18.203	252	239	0.0015	ug/mL	#	1
24) Benzo(k)fluoranthene	18.203	252	239	0.0015	ug/mL	#	1
25) Benzo(a)pyrene	18.572	252	244	0.0018	ug/mL	#	1
26) Indeno(1,2,3-cd)pyrene	19.943	276	194	0.0018	ug/mL	#	1
27) Dibenz(a,h)anthracene	19.940	278	105	0.0012	ug/mL	#	1
28) Benzo(g,h,i)perylene	20.320	276	376	0.0042	ug/mL	#	21

(#) = qualifier out of range (m) = manual integration (+) = signals summed

[Nitrobenzene-d5; 25; u]

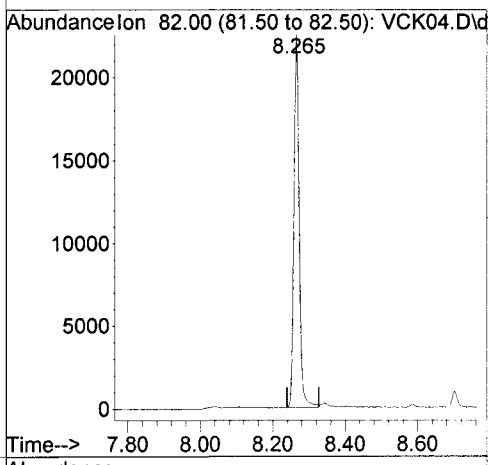
Raw



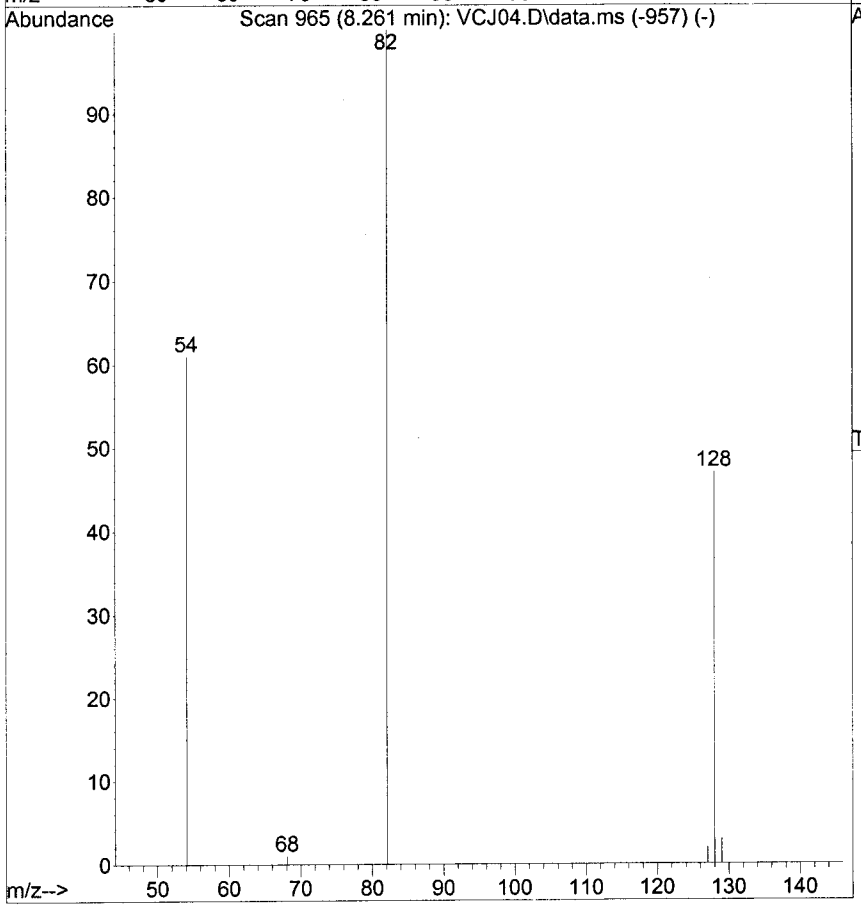
#4
Nitrobenzene-d5
Concen: 0.7482 ug/mL
RT: 8.265 min Scan# 966
Delta R.T. 0.004 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

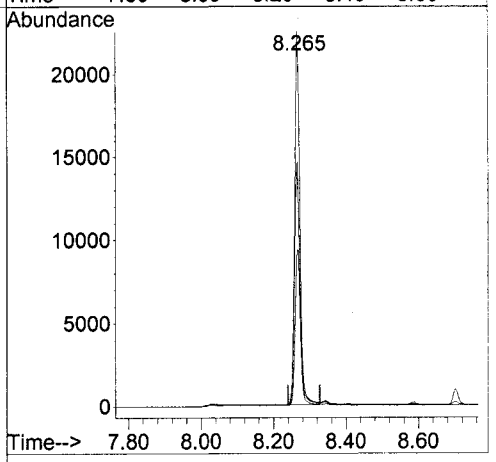
Tgt Ion: 82 Resp: 22267

Ion	Ratio	Lower	Upper
82	100		
128	41.6	10.5	50.5
54	65.0	56.2	96.2



Ref

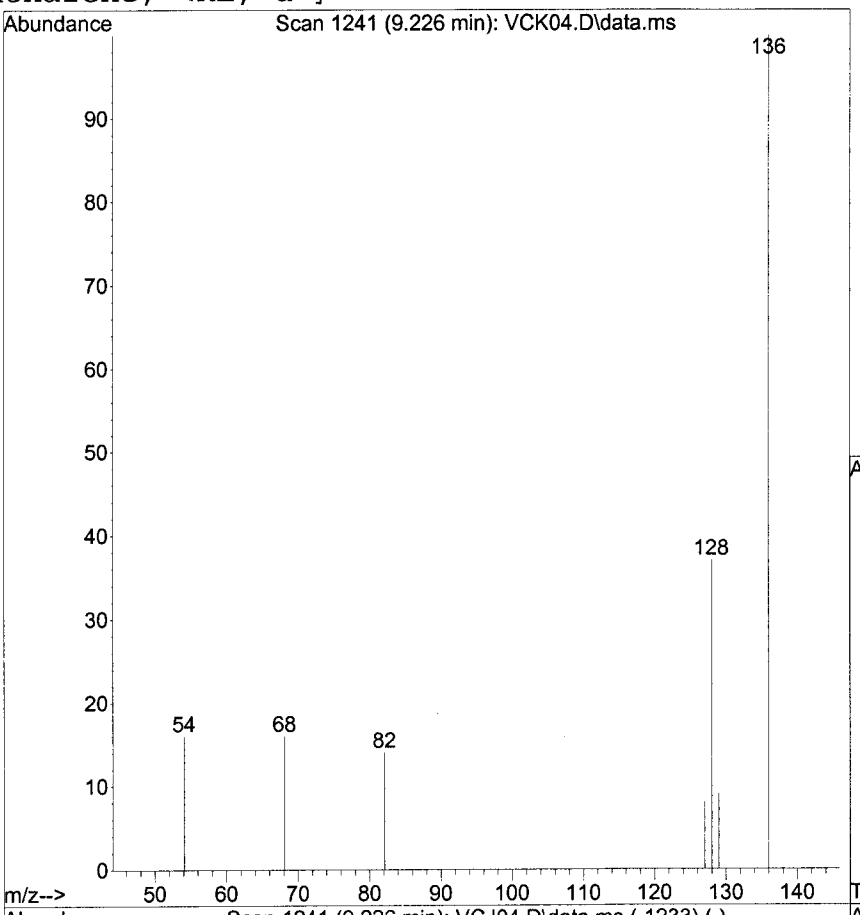




00249

[Naphthalene; <RL; u]

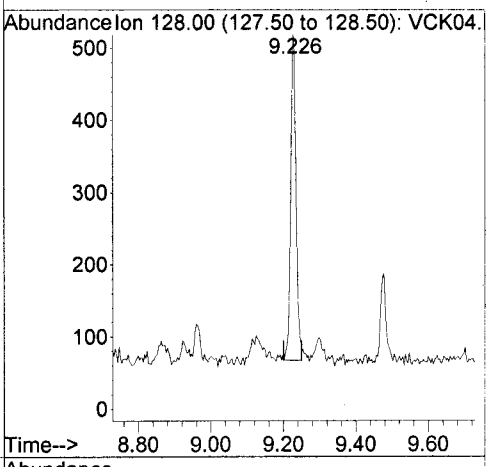
Raw



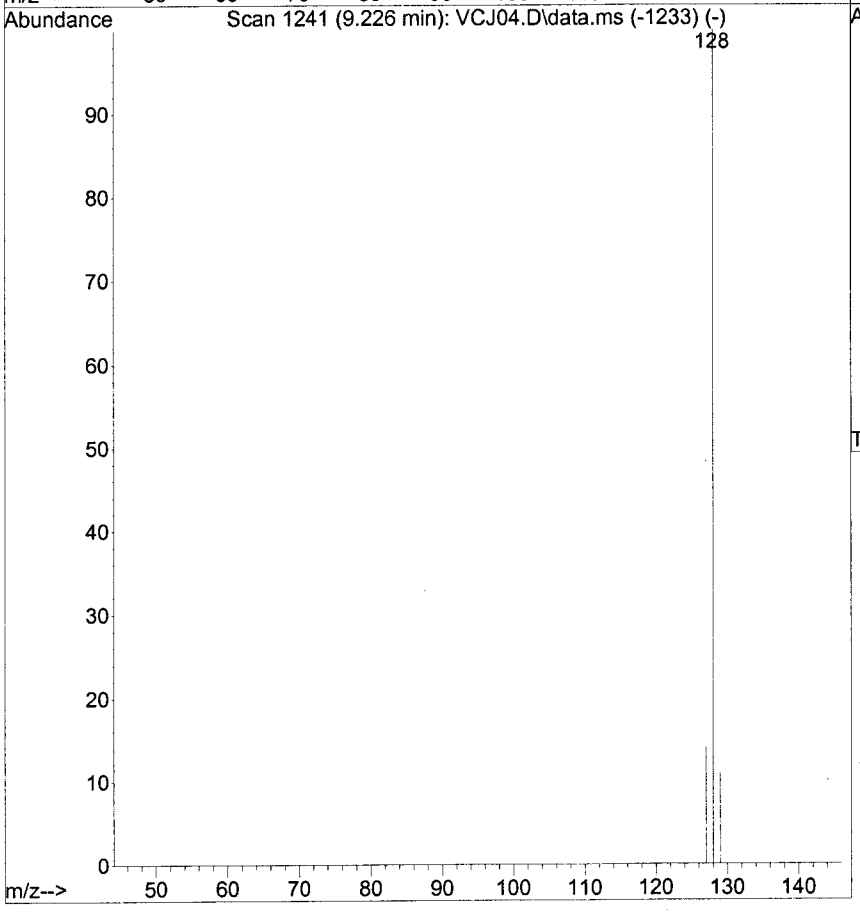
#5
Naphthalene
Concen: 0.0041 ug/mL
RT: 9.226 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

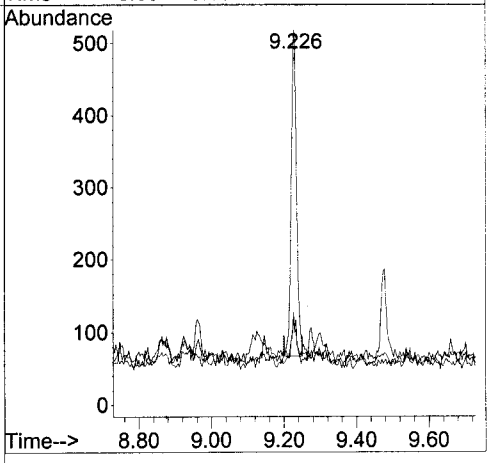
Tgt Ion:128 Resp: 478

Ion	Ratio	Lower	Upper
128	100		
129	24.5	0.0	31.1
127	22.5	0.0	34.0



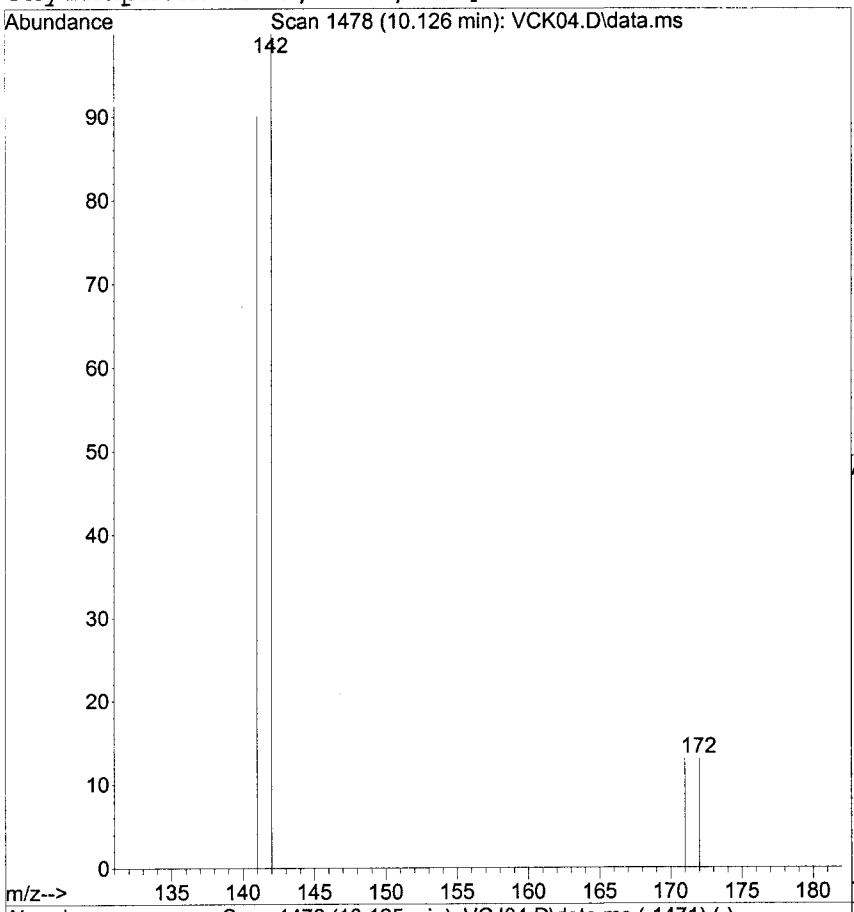
Ref





[2-Methylnaphthalene; <RL; u]

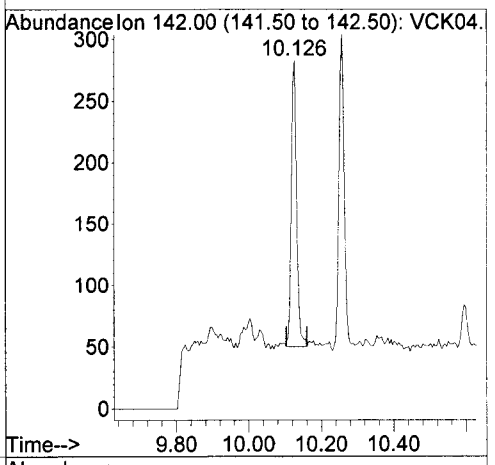
Raw



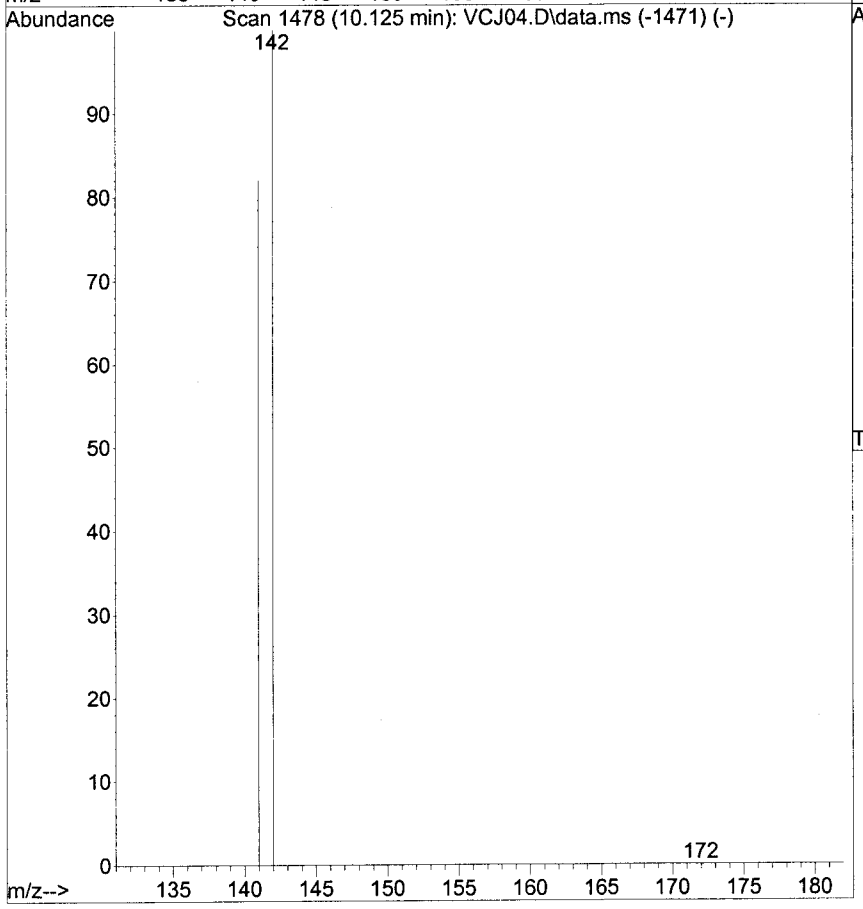
#6
2-Methylnaphthalene
Concen: 0.0030 ug/mL
RT: 10.126 min Scan# 1478
Delta R.T. 0.001 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

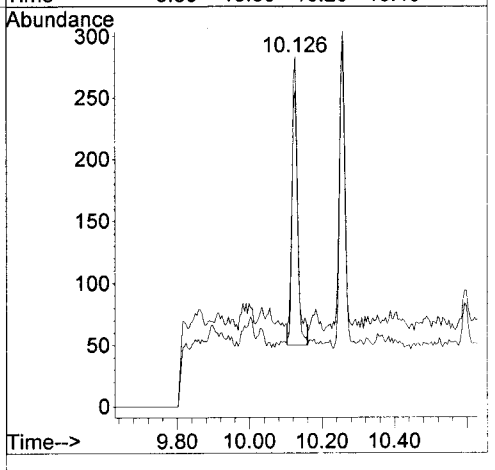
Tgt Ion:142 Resp: 234

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.3	111.3



Ref

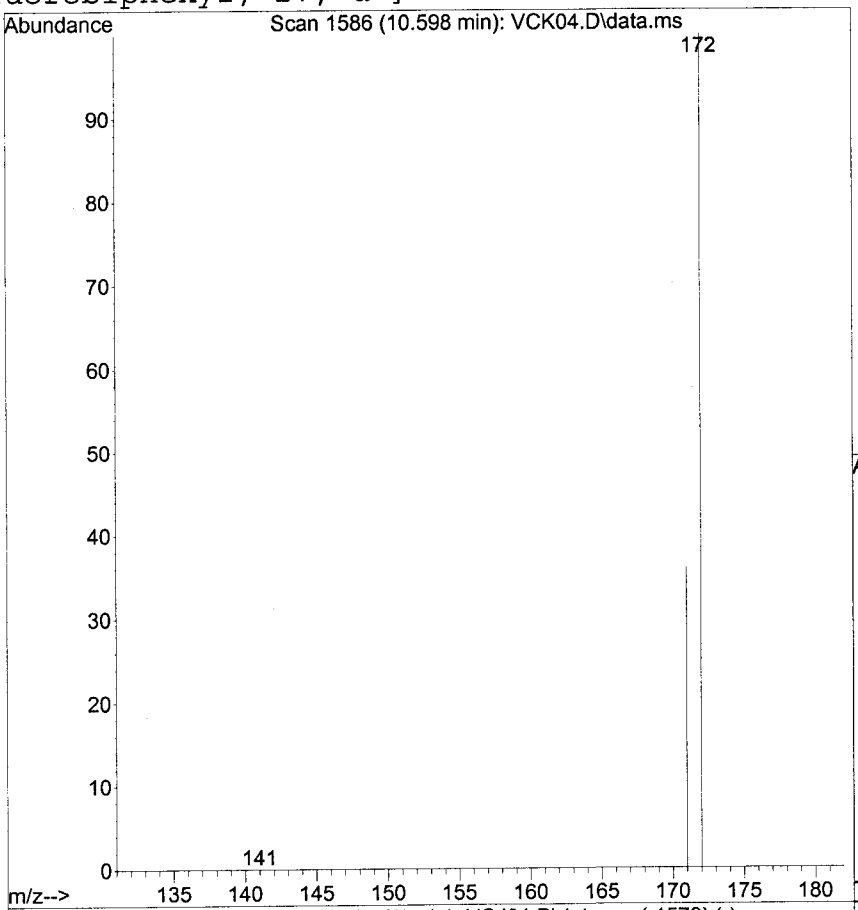




00251

[2-Fluorobiphenyl; 27; u]

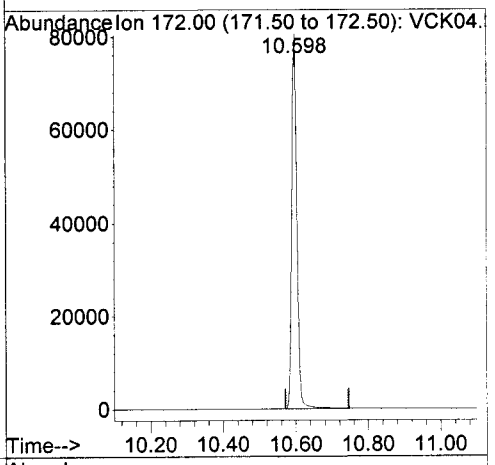
Raw



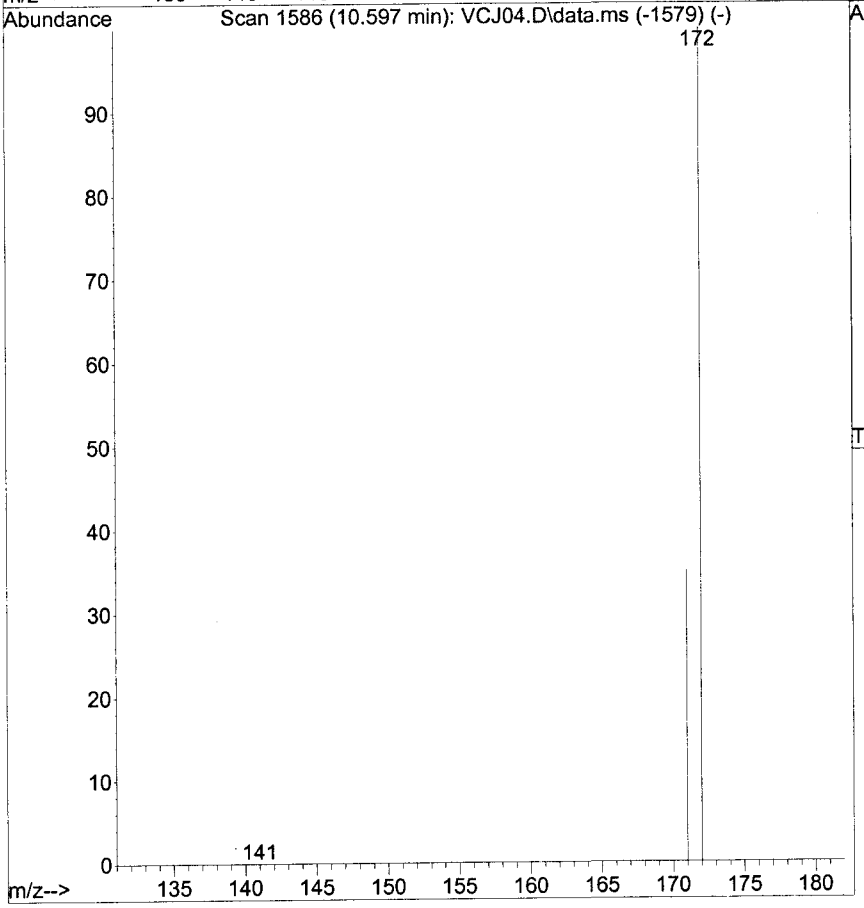
#9
2-Fluorobiphenyl
Concen: 0.8060 ug/mL
RT: 10.598 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

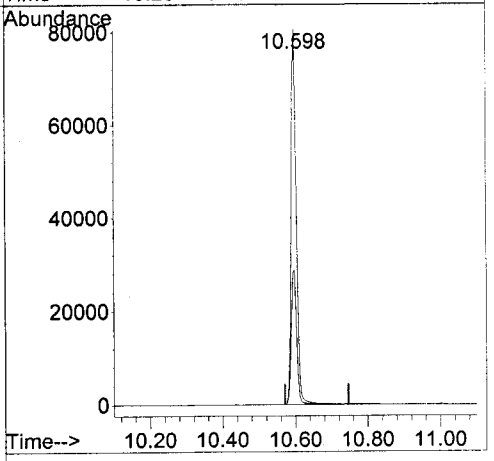
Tgt Ion:172 Resp: 79215

Ion	Ratio	Lower	Upper
172	100		
171	35.8	14.4	54.4



Ref

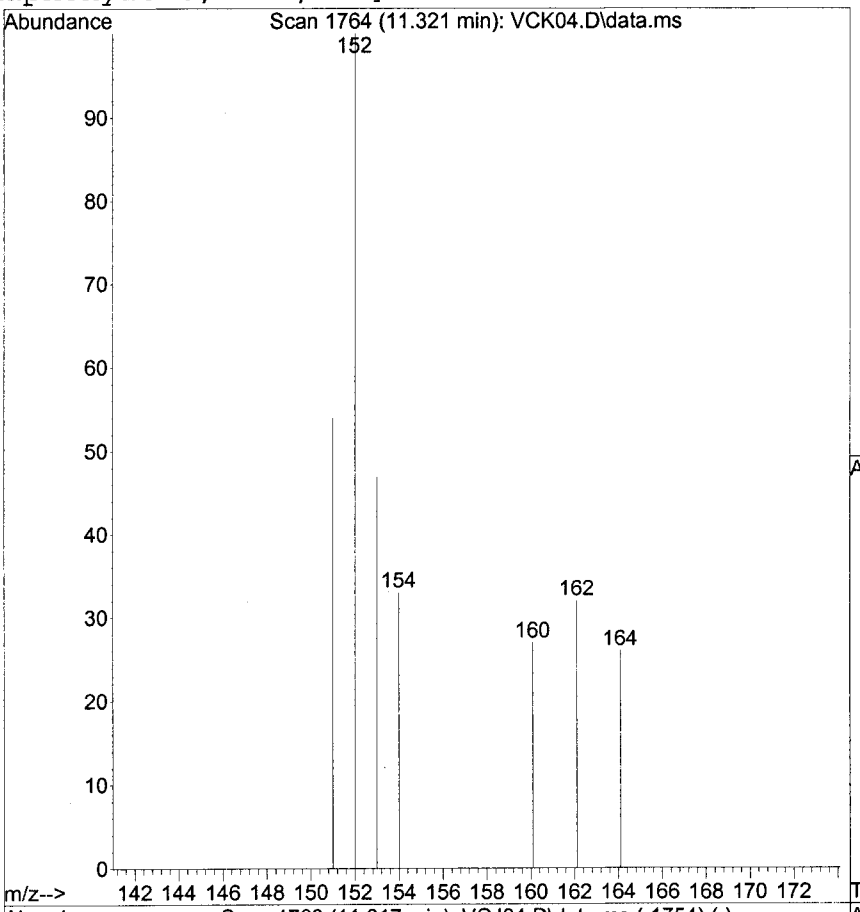




00252

[Acenaphthylene; <RL; u]

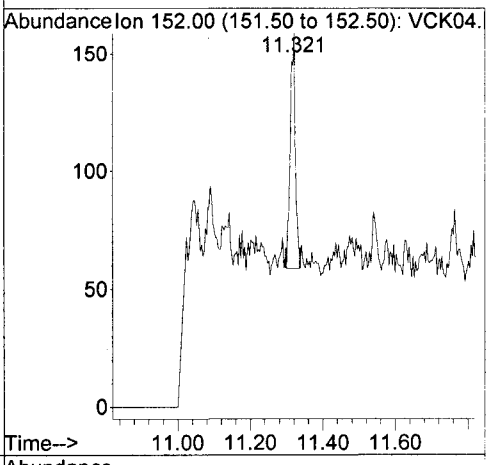
Raw



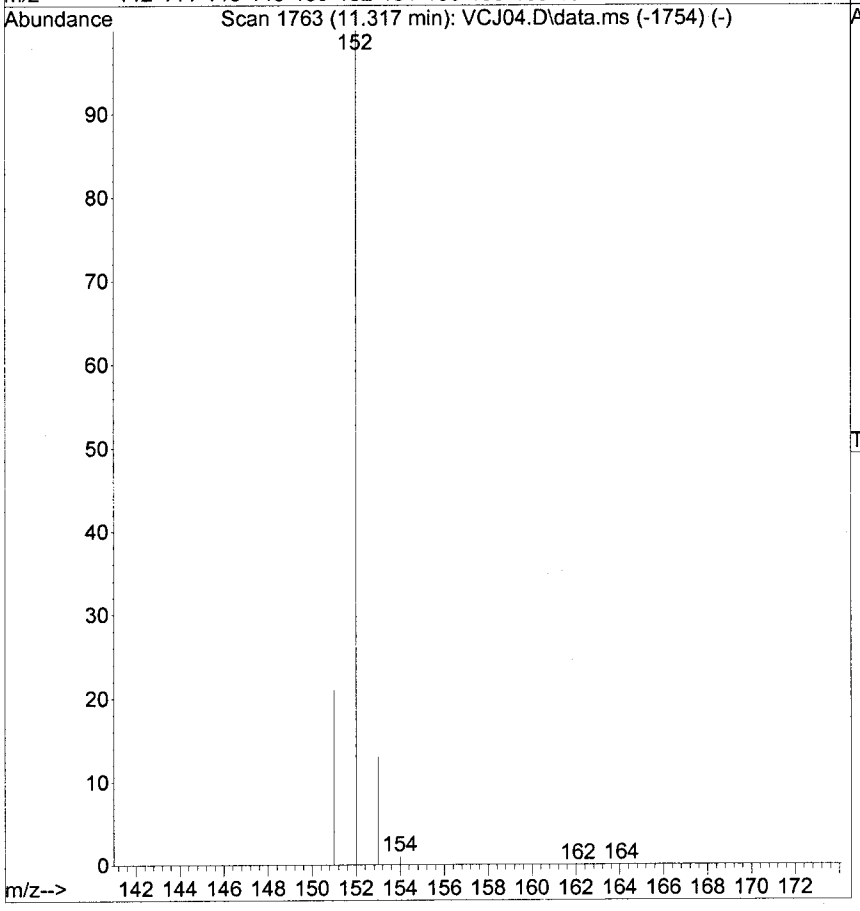
#10
Acenaphthylene
Concen: 0.0008 ug/mL
RT: 11.321 min Scan# 1764
Delta R.T. 0.003 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

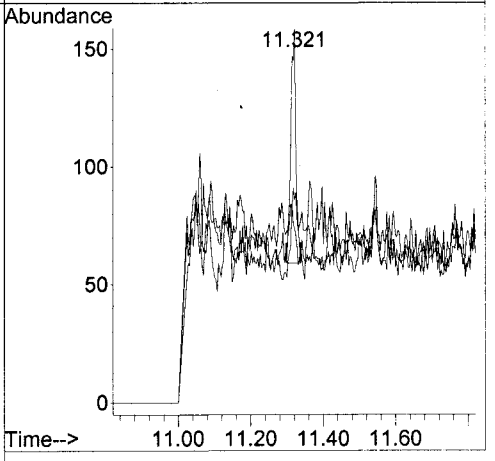
Tgt Ion:152 Resp: 100

Ion	Ratio	Lower	Upper
152	100		
151	54.1	1.0	41.0#
153	46.5	0.0	33.1#



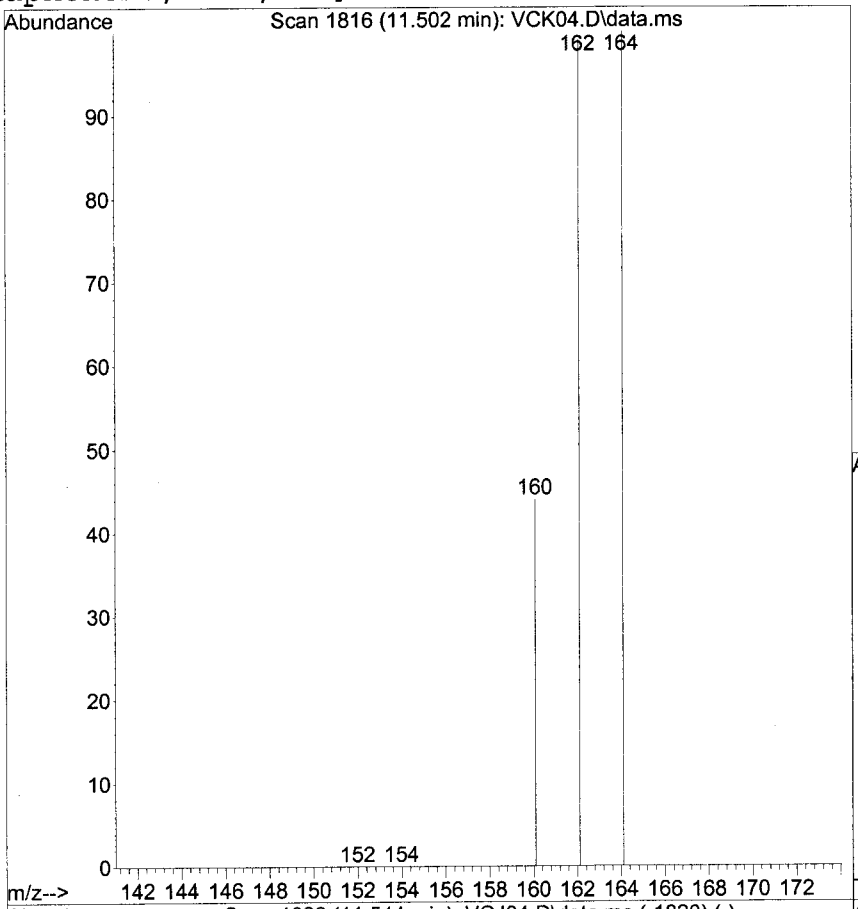
Ref





[Acenaphthene; <RL; u]

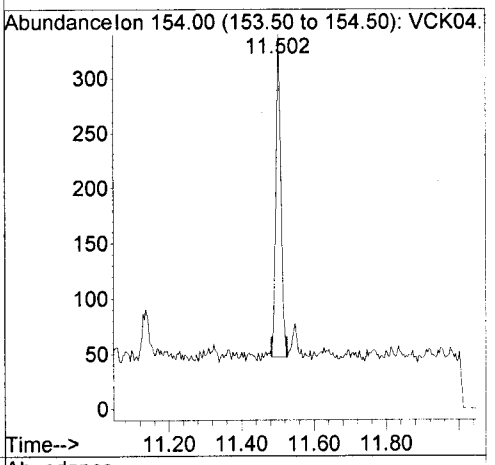
Raw



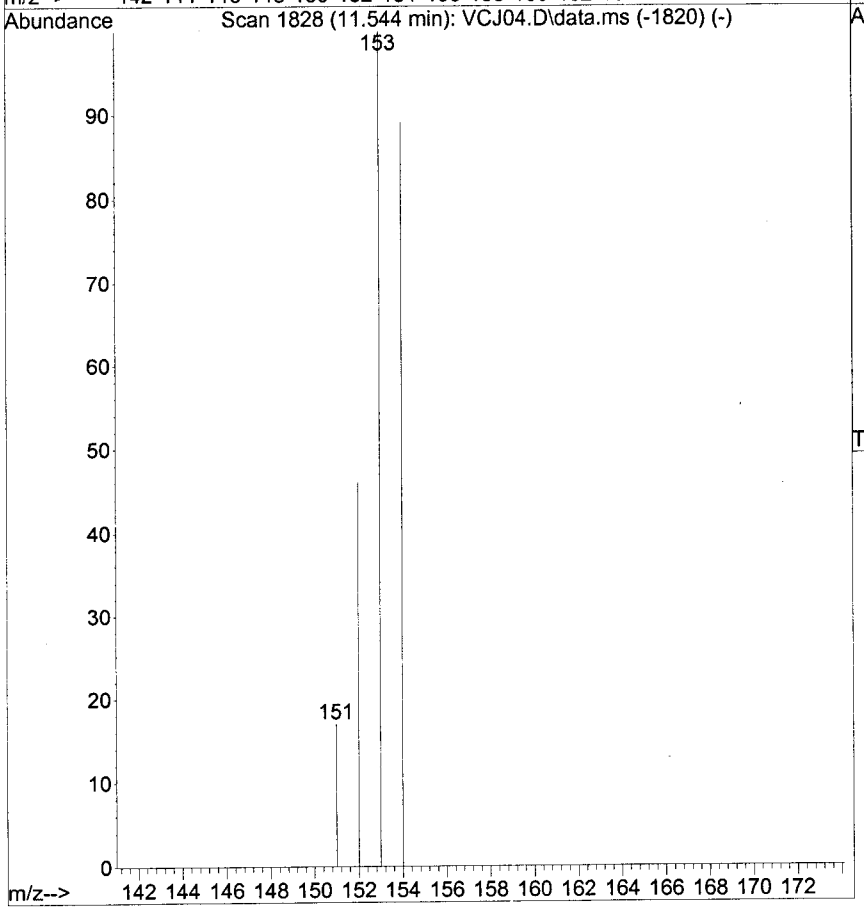
#11
Acenaphthene
Concen: 0.0034 ug/mL
RT: 11.502 min Scan# 1816
Delta R.T. -0.042 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

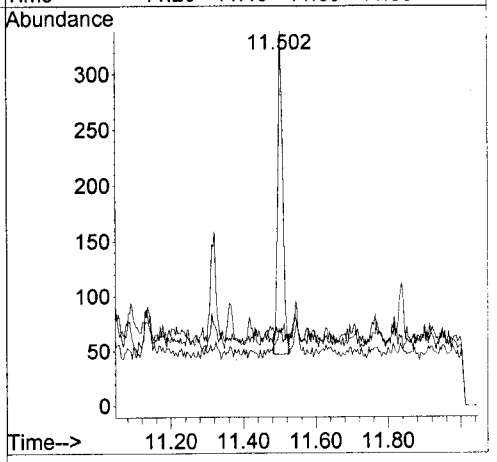
Tgt Ion:154 Resp: 275

Ion	Ratio	Lower	Upper
154	100		
152	19.4	35.4	75.4#
153	19.4	96.8	136.8#



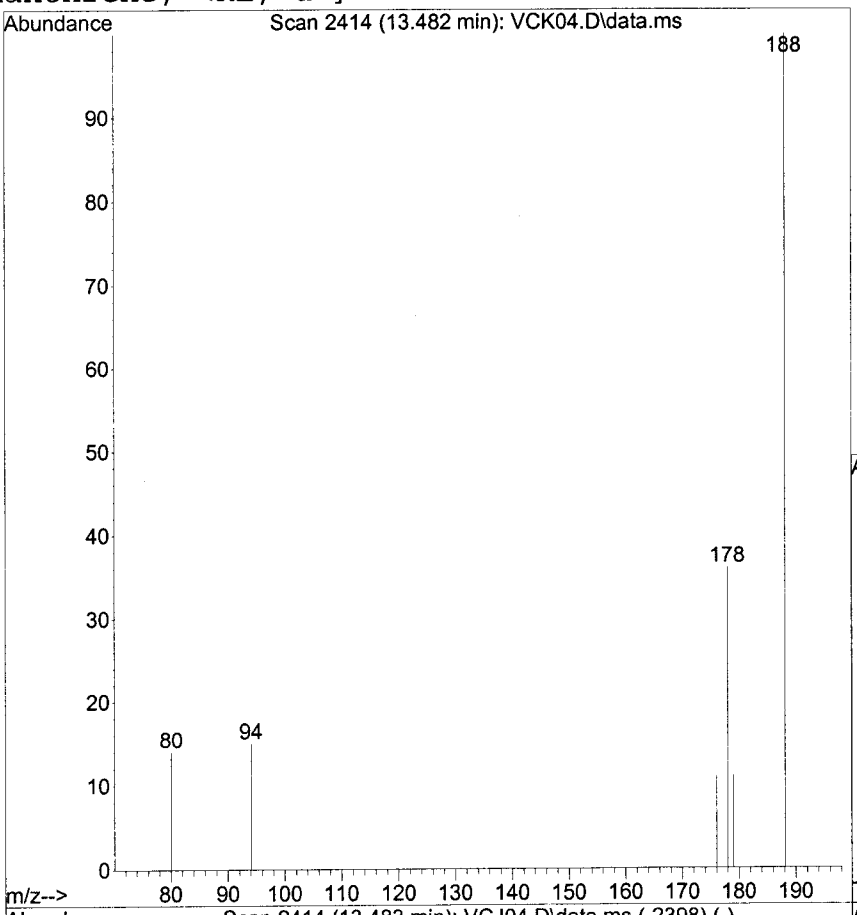
Ref





[Phenanthrene; <RL; u]

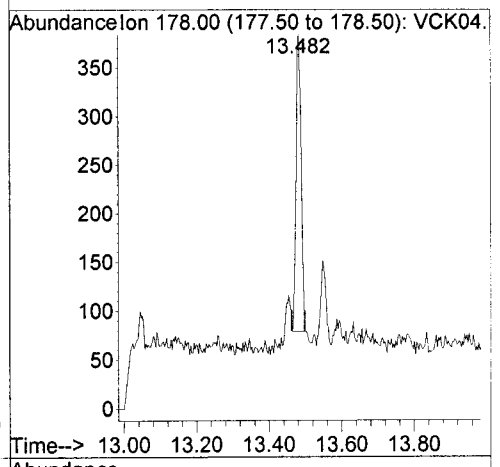
Raw



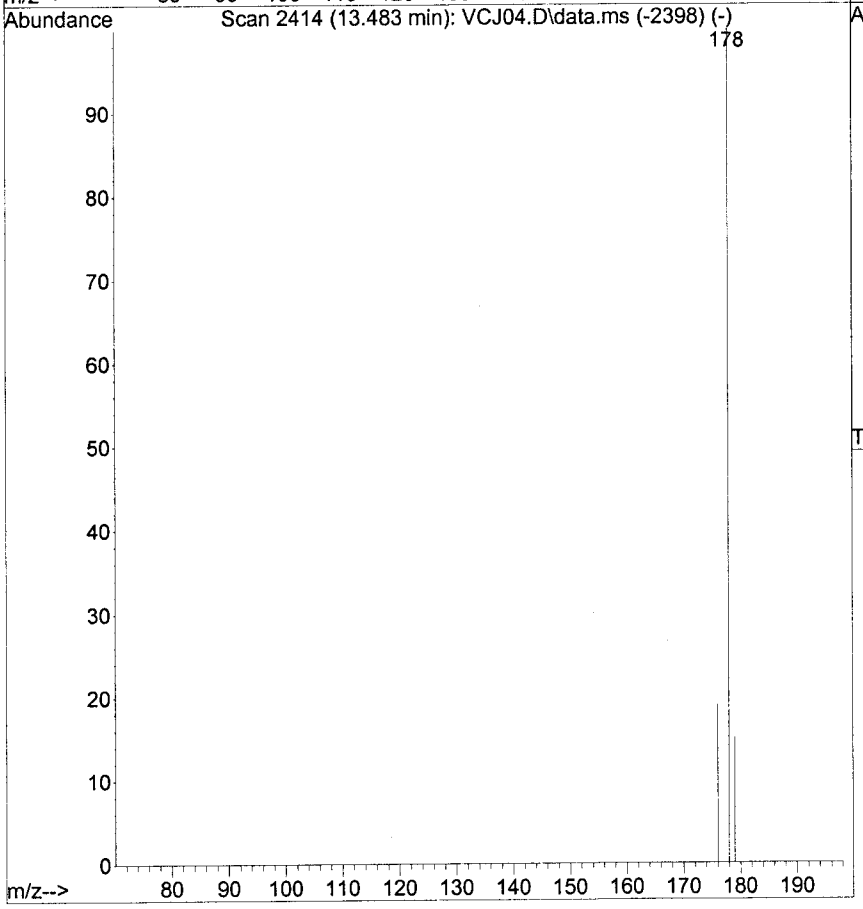
#14
Phenanthrene
Concen: 0.0018 ug/mL
RT: 13.482 min Scan# 2414
Delta R.T. -0.001 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

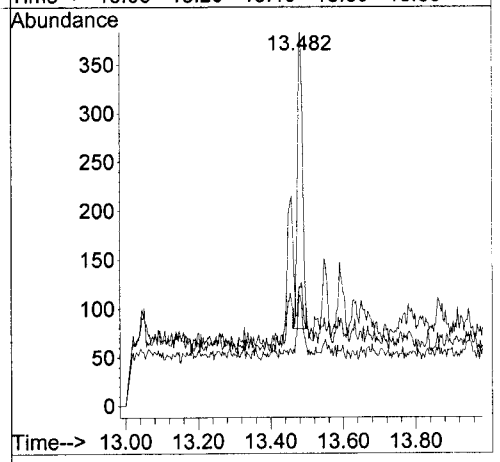
Tgt Ion:178 Resp: 298

Ion	Ratio	Lower	Upper
178	100		
179	31.5	0.0	35.0
176	29.4	0.0	38.9



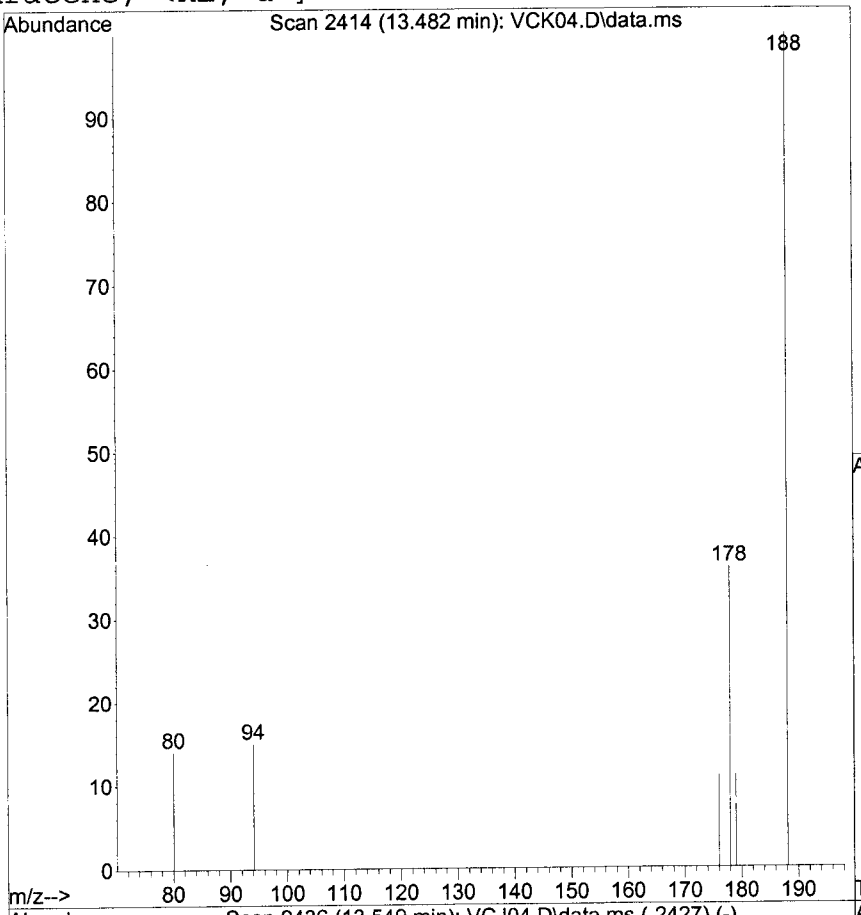
Ref





[Anthracene; <RL; u]

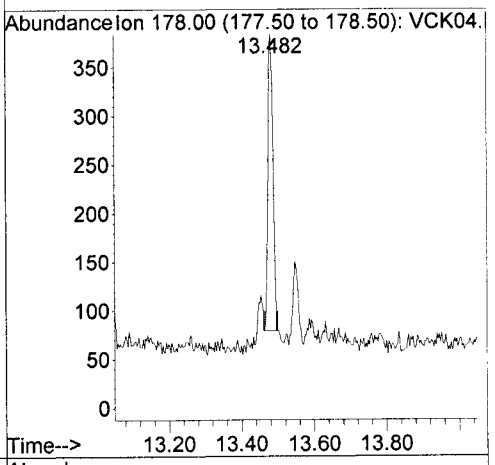
Raw



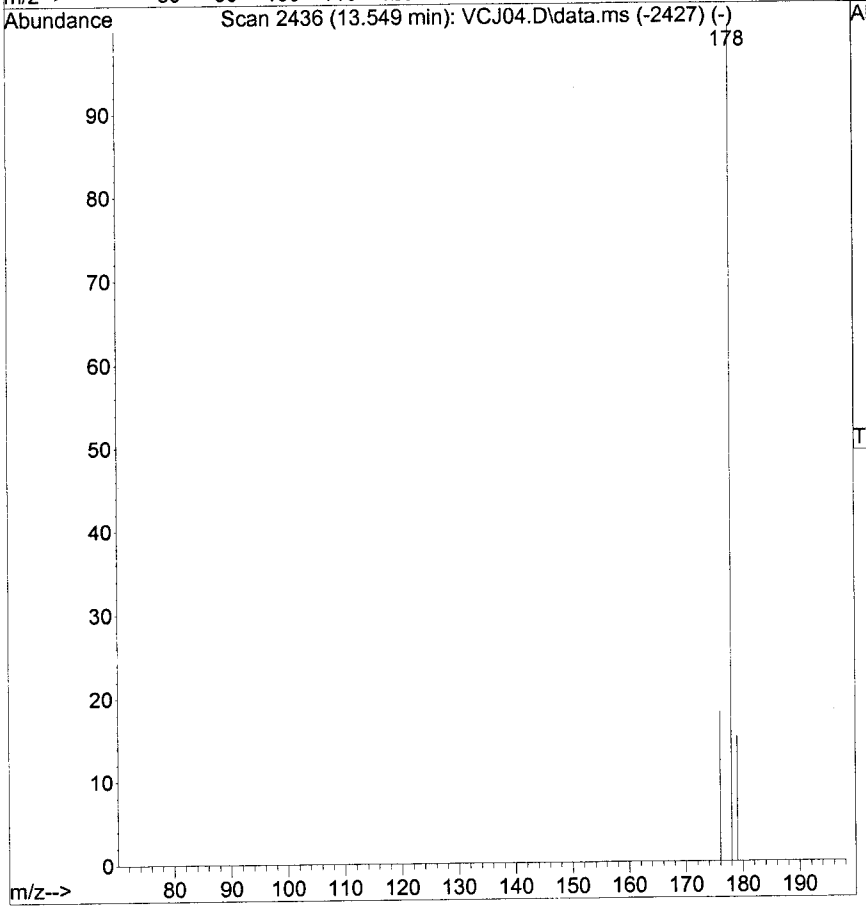
#15
Anthracene
Concen: 0.0020 ug/mL
RT: 13.482 min Scan# 2414
Delta R.T. -0.067 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

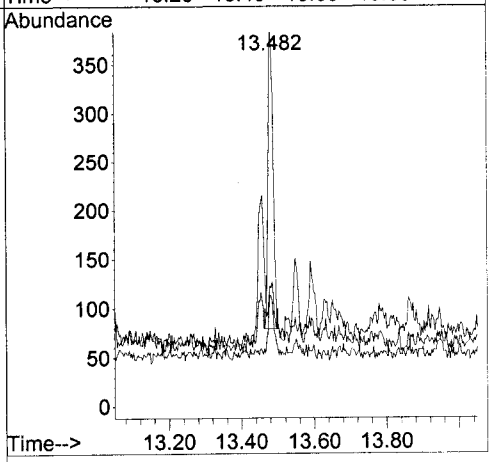
Tgt Ion:178 Resp: 298

Ion	Ratio	Lower	Upper
178	100		
179	31.5	0.0	34.4
176	29.4	0.0	39.5



Ref

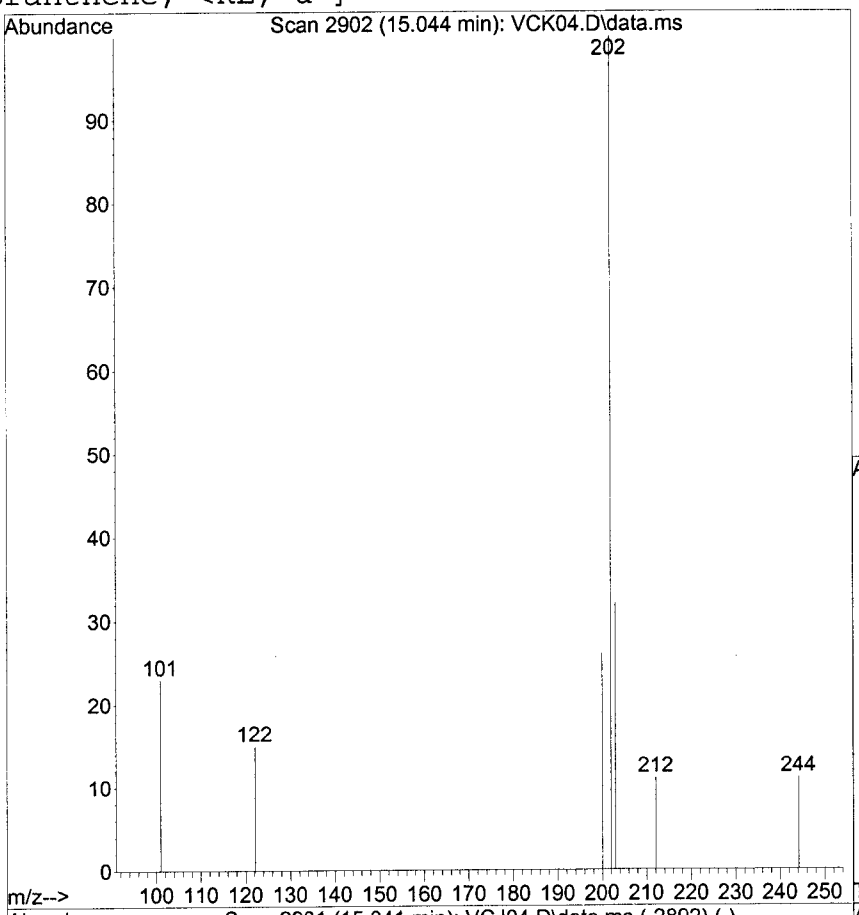




00256

[Fluoranthene; <RL; u]

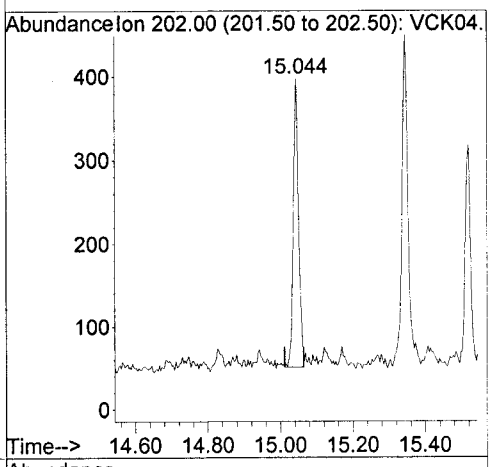
Raw



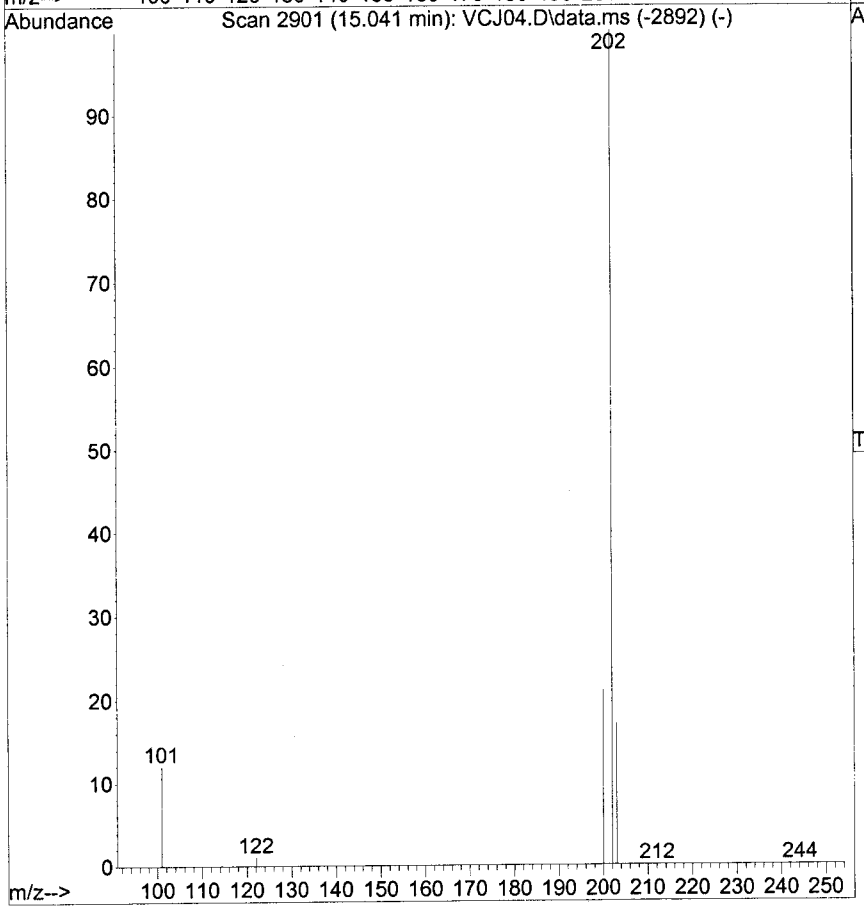
#16
Fluoranthene
Concen: 0.0020 ug/mL
RT: 15.044 min Scan# 2902
Delta R.T. 0.002 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

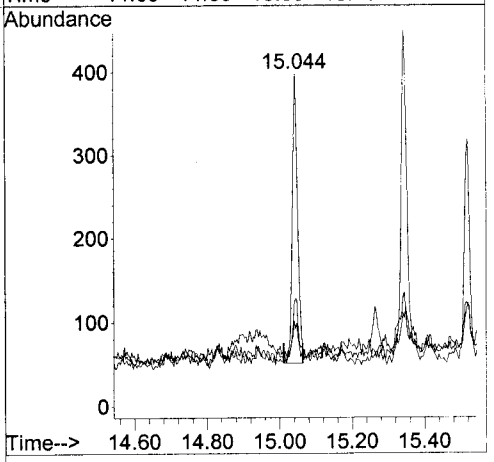
Tgt Ion:202 Resp: 345

Ion	Ratio	Lower	Upper
202	100		
101	23.1	0.0	21.1#
203	32.2	0.0	37.0



Ref

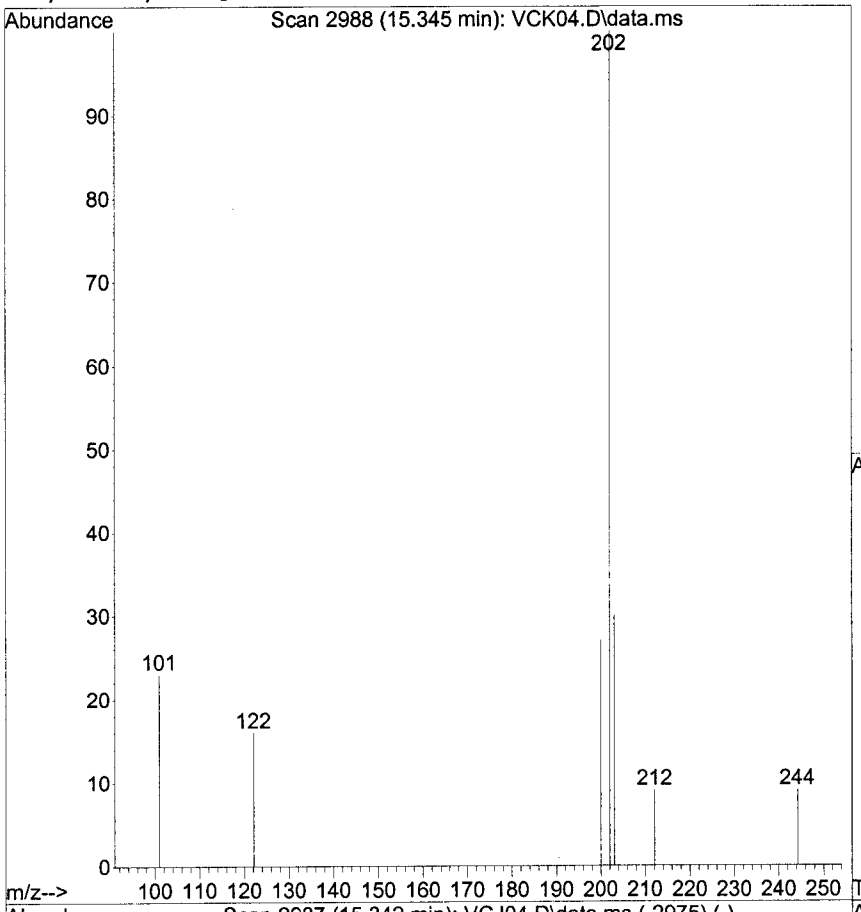




00257

[Pyrene; <RL; u]

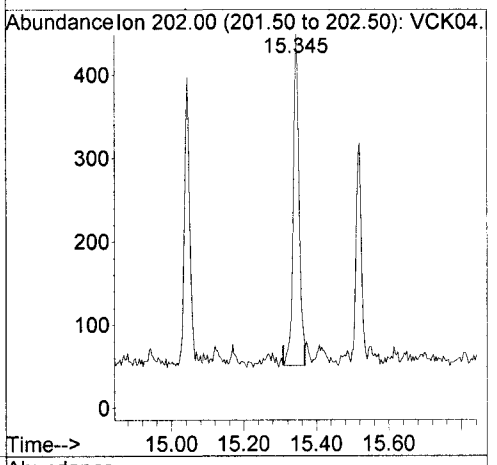
Raw



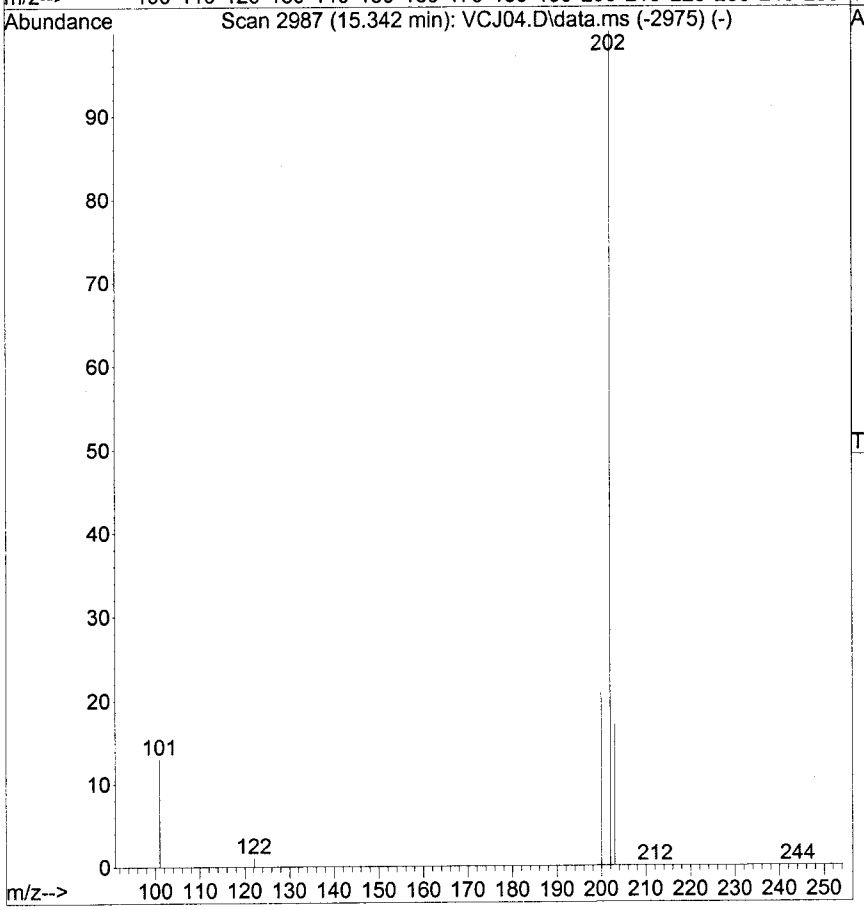
#18
Pyrene
Concen: 0.0026 ug/mL
RT: 15.345 min Scan# 2988
Delta R.T. 0.002 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

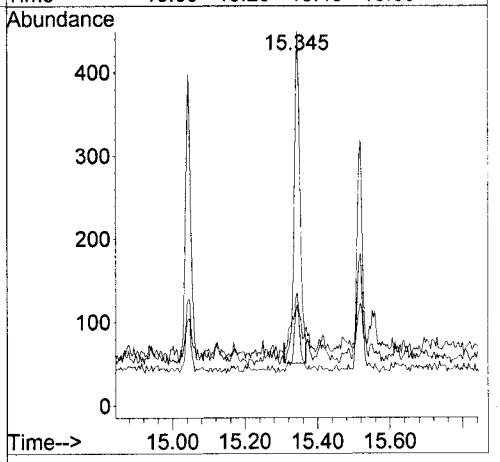
Tgt Ion:202 Resp: 450

Ion	Ratio	Lower	Upper
202	100		
200	26.9	1.1	41.1
203	30.0	0.0	37.7



Ref

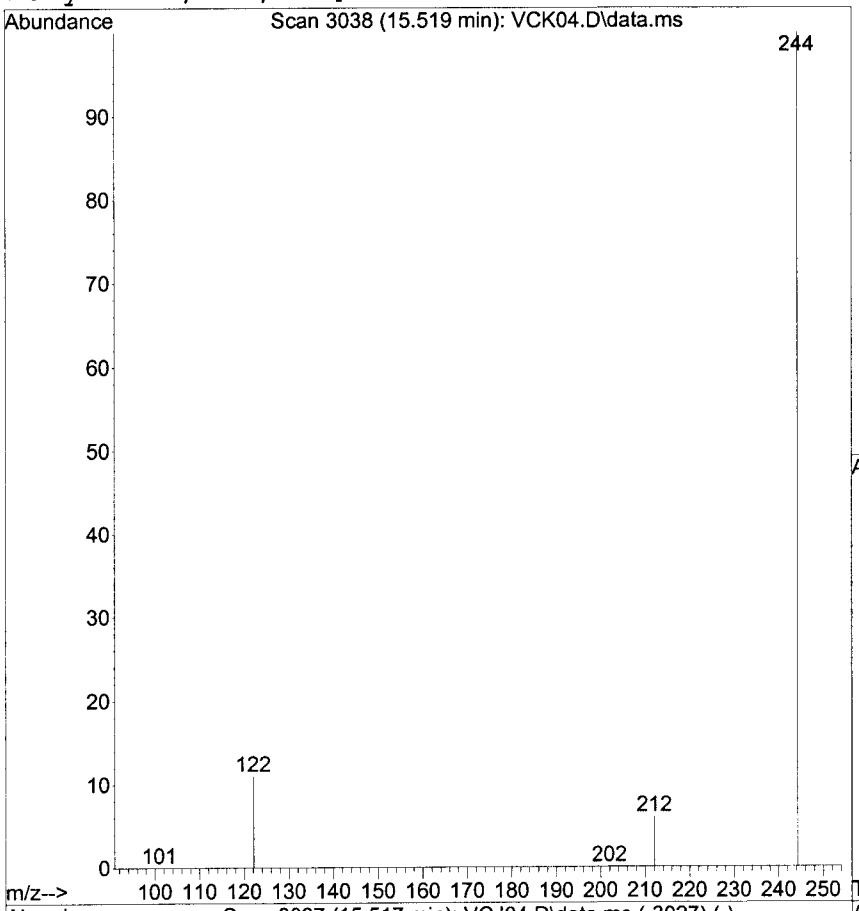




00258

[Terphenyl-d14; 26; u]

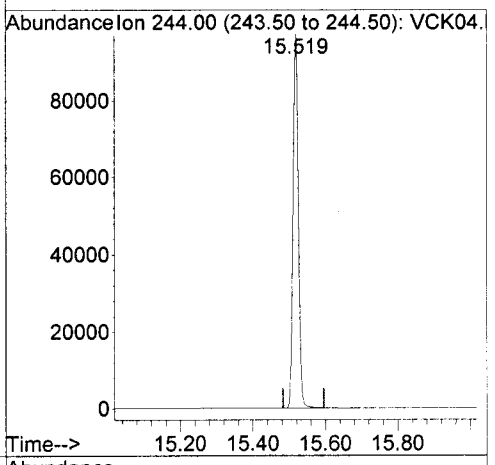
Raw



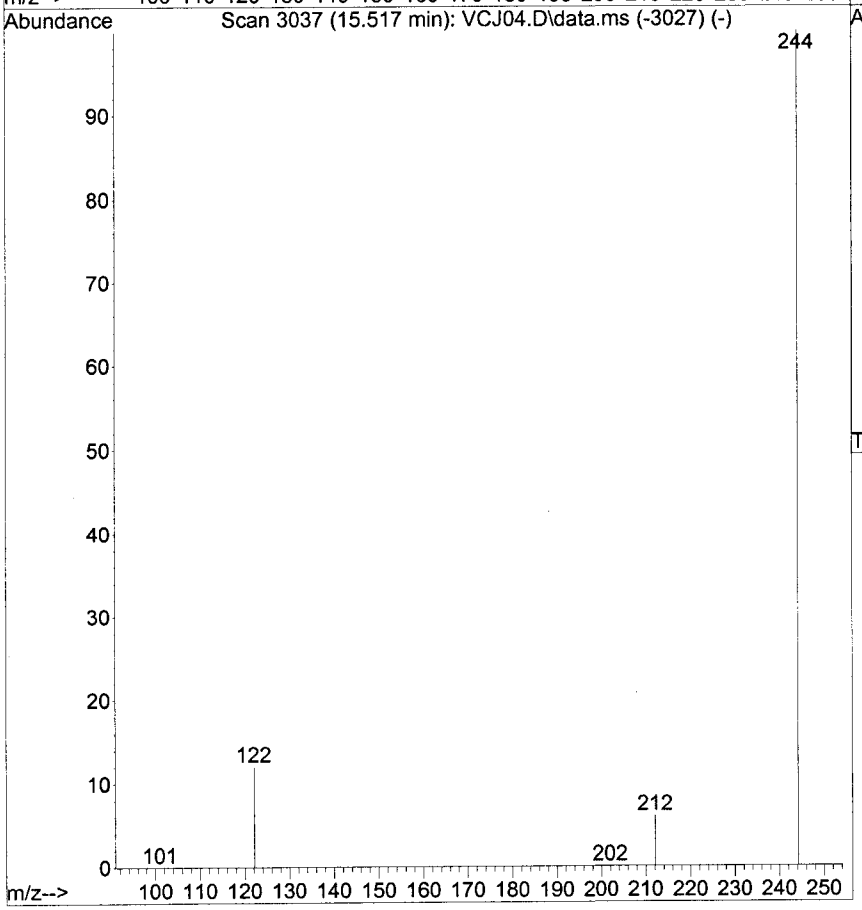
#19
Terphenyl-d14
Concen: 0.7945 ug/mL
RT: 15.519 min Scan# 3038
Delta R.T. 0.002 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

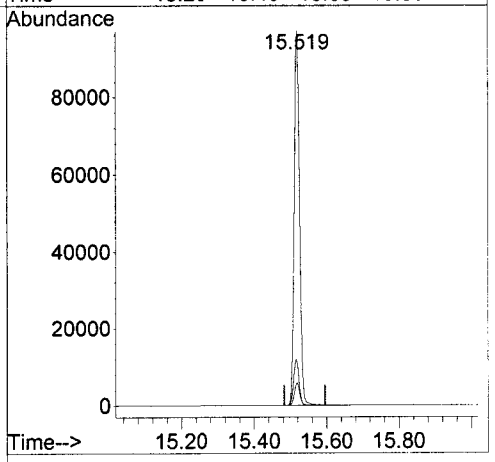
Tgt Ion:244 Resp: 98903

Ion	Ratio	Lower	Upper
244	100		
122	11.3	0.0	25.0
212	6.0	0.0	31.4



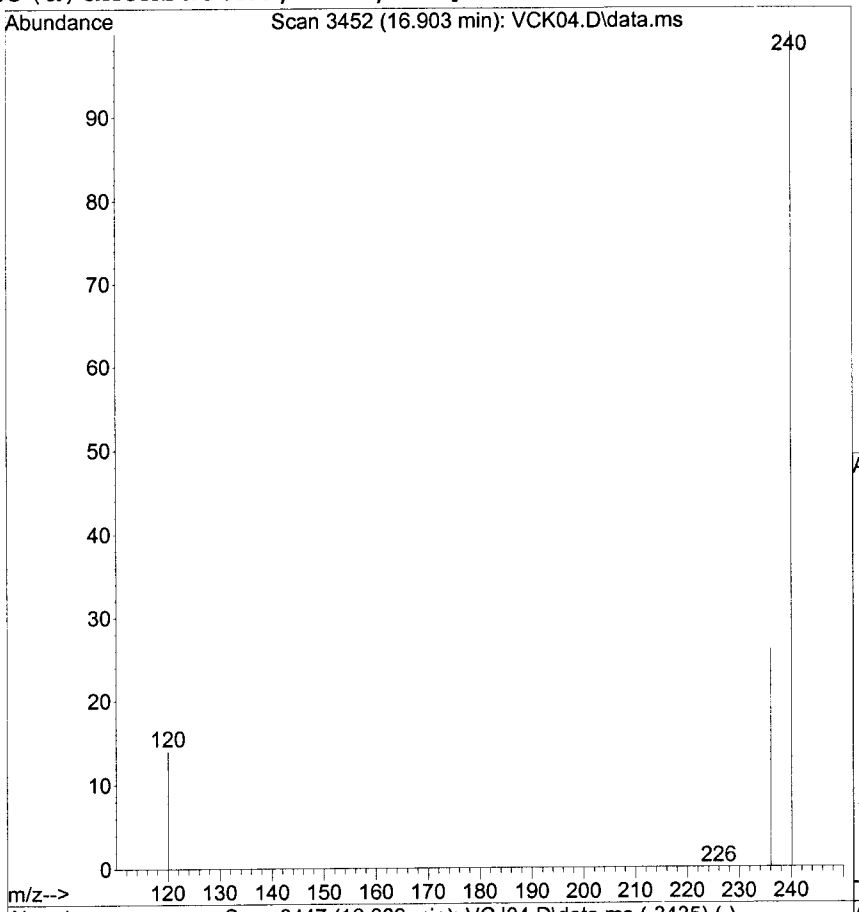
Ref





[Benzo(a)anthracene; <RL; u]

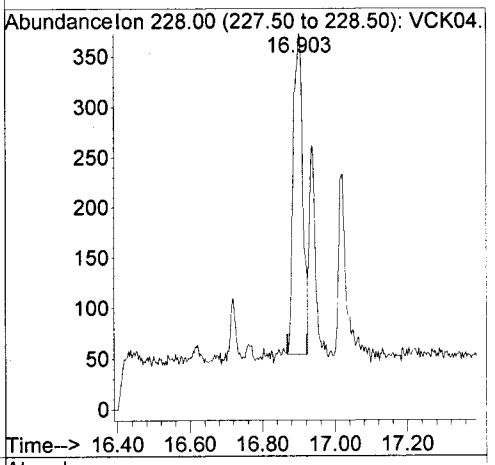
Raw



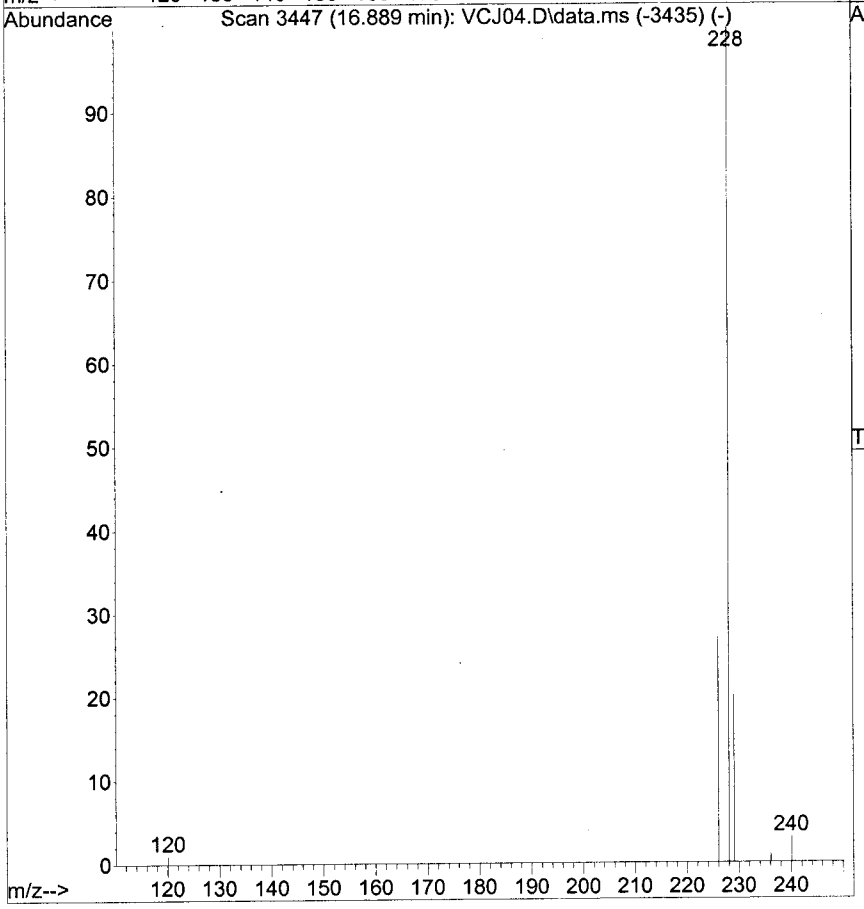
#20
Benzo(a)anthracene
Concen: 0.0040 ug/mL
RT: 16.903 min Scan# 3452
Delta R.T. 0.014 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

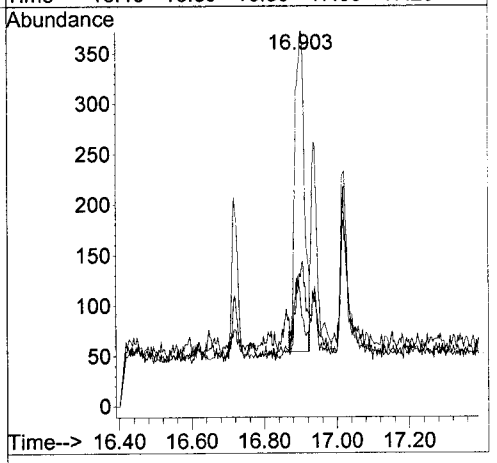
Tgt Ion:228 Resp: 580

Ion	Ratio	Lower	Upper
228	100		
229	38.3	0.1	40.1
226	23.9	9.3	49.3



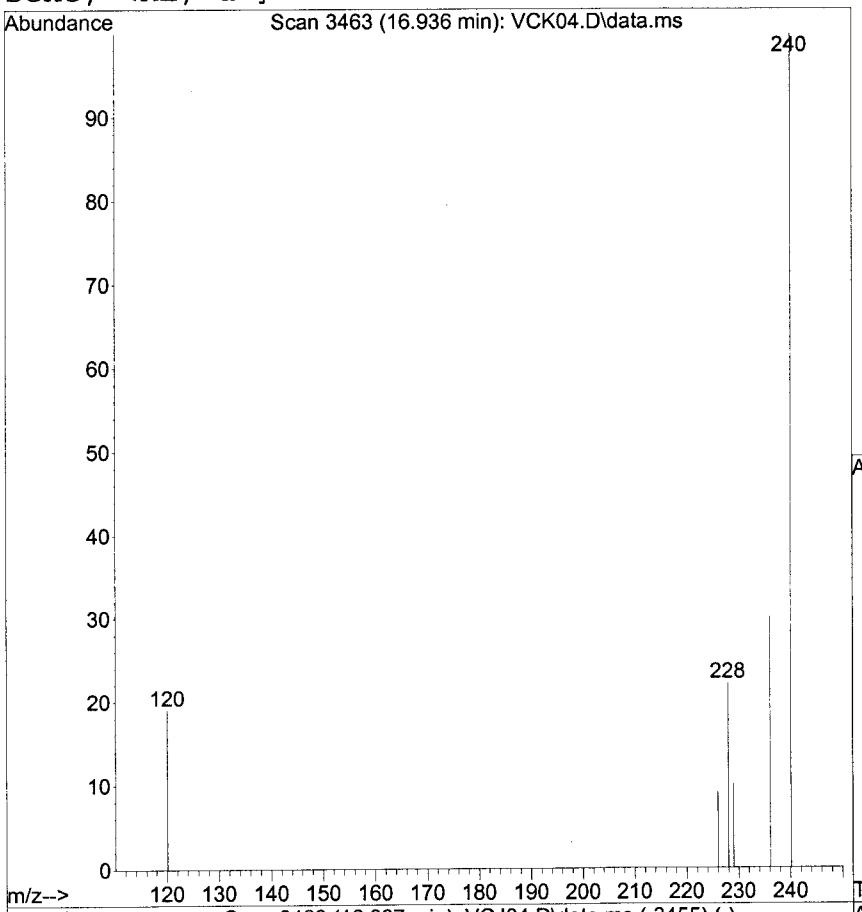
Ref





[Chrysene; <RL; u]

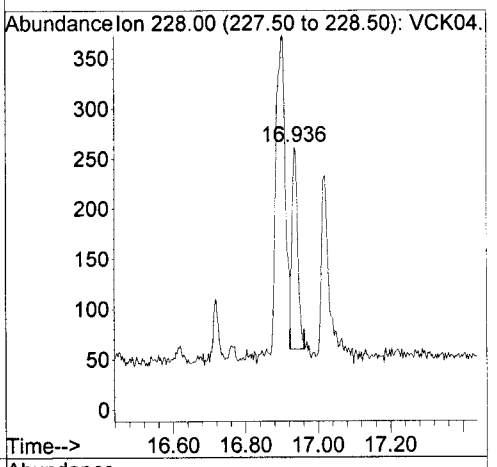
Raw



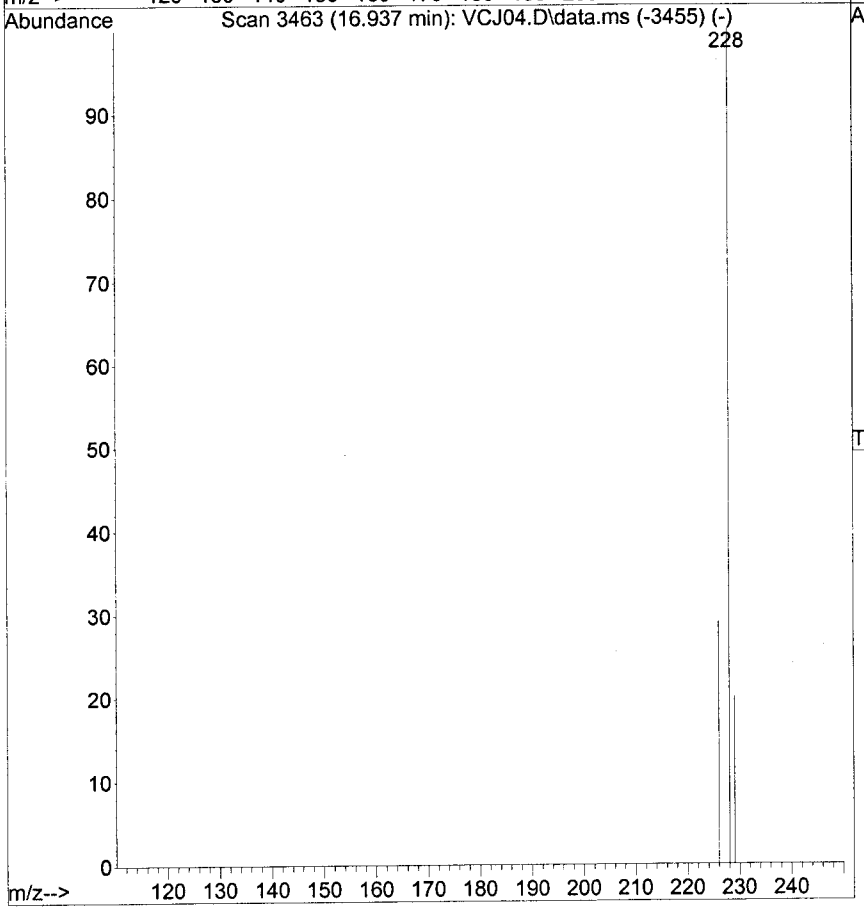
#21
Chrysene
Concen: 0.0014 ug/mL
RT: 16.936 min Scan# 3463
Delta R.T. -0.001 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

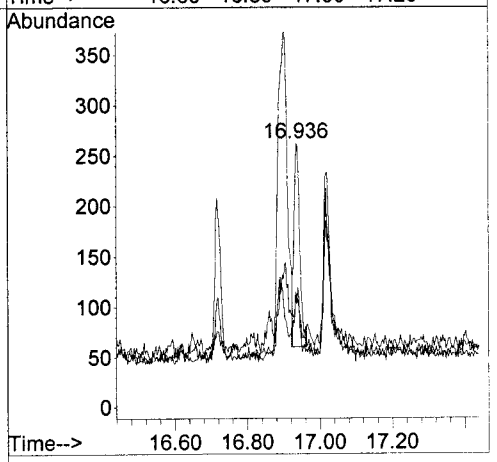
Tgt Ion:228 Resp: 217

Ion	Ratio	Lower	Upper
228	100		
226	39.3	13.4	53.4
229	42.7	0.8	40.8#



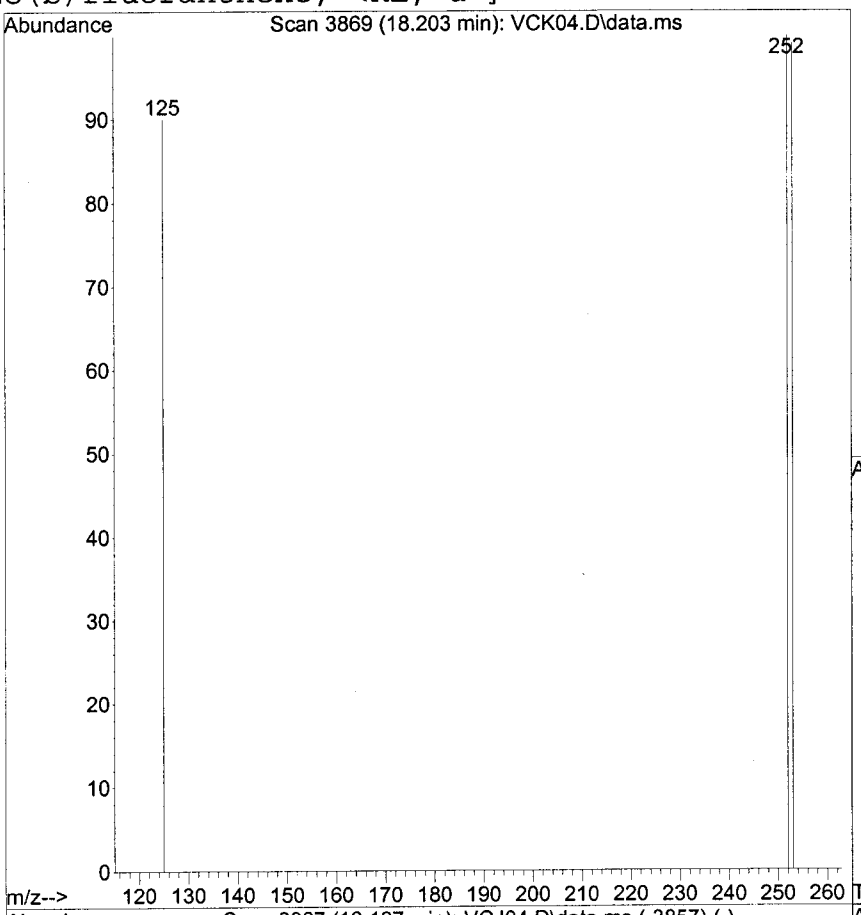
Ref





[Benzo(b)fluoranthene; <RL; u]

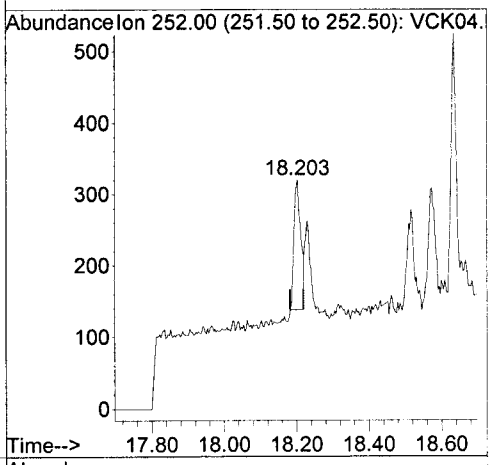
Raw



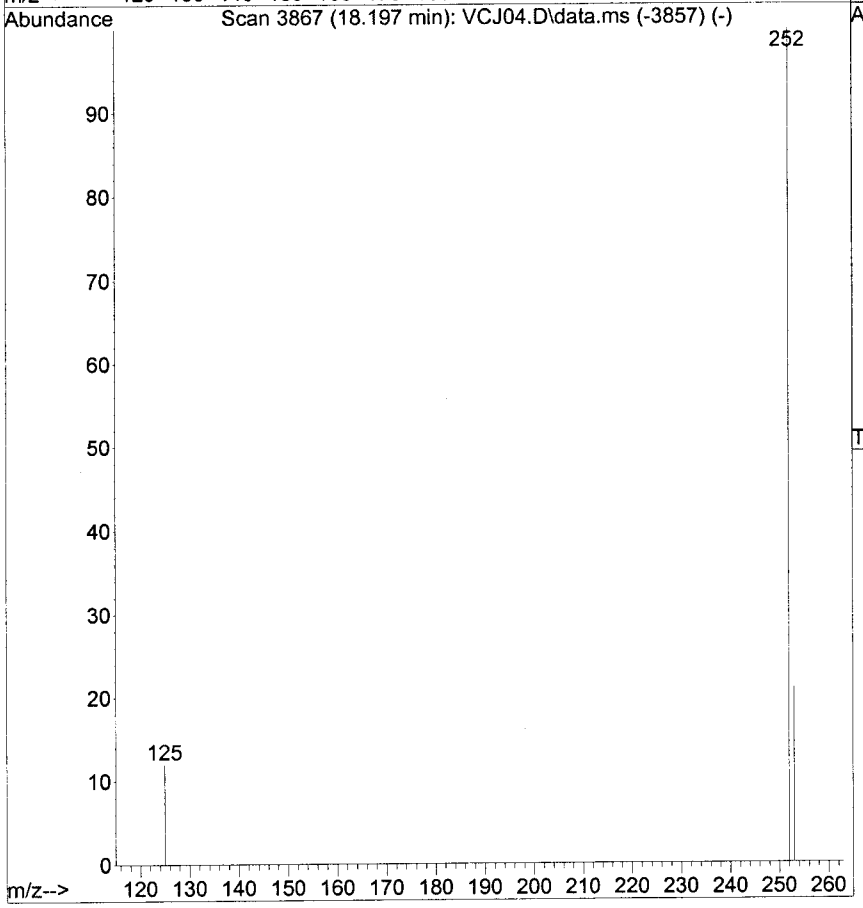
#23
Benzo(b)fluoranthene
Concen: 0.0015 ug/mL
RT: 18.203 min Scan# 3869
Delta R.T. 0.006 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

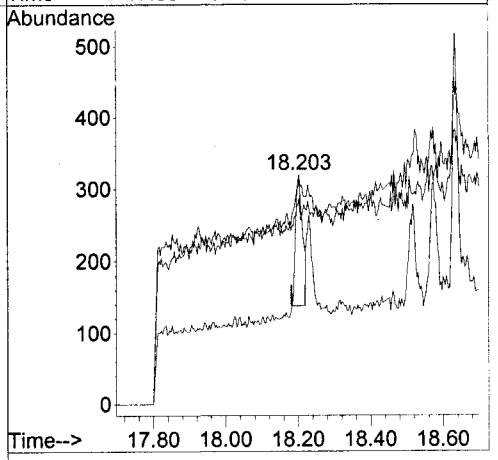
Tgt Ion:252 Resp: 239

Ion	Ratio	Lower	Upper
252	100		
253	99.1	1.0	41.0#
125	89.7	0.0	20.9#



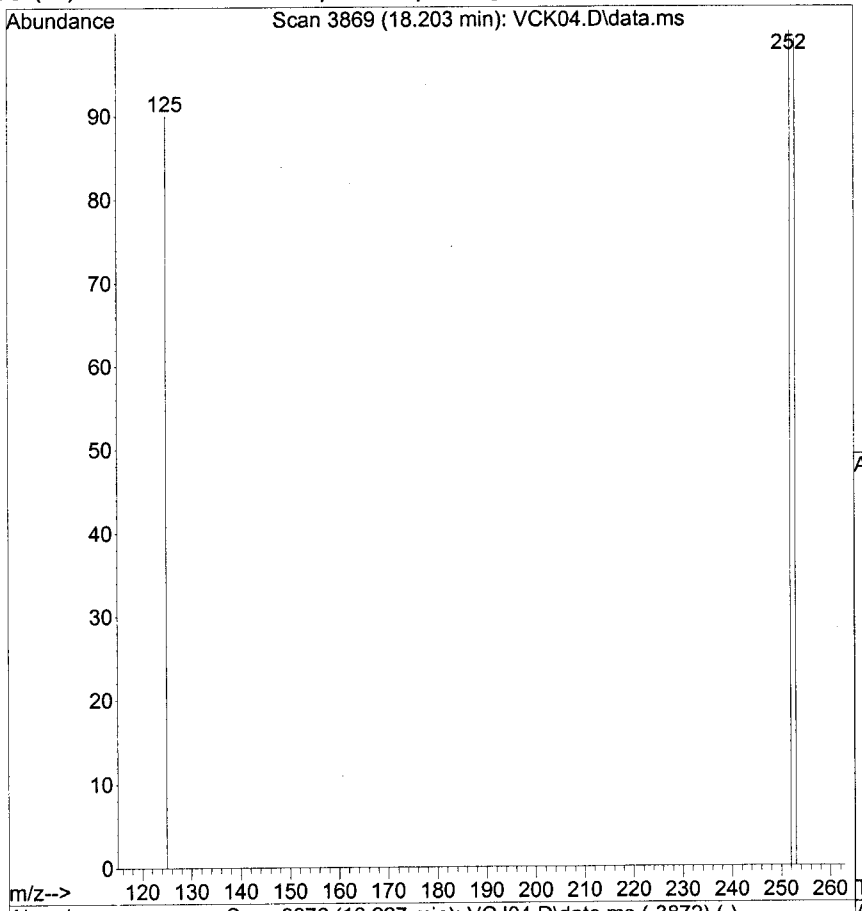
Ref





[Benzo(k)fluoranthene; <RL; u]

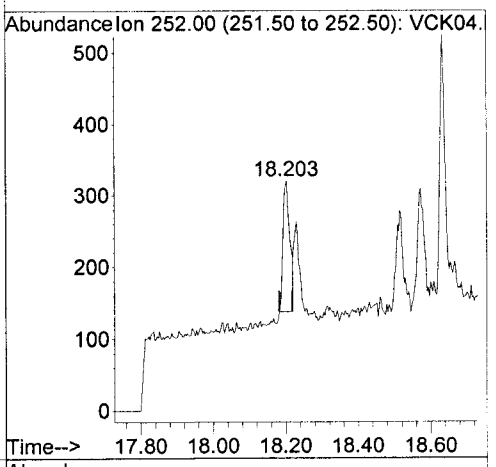
Raw



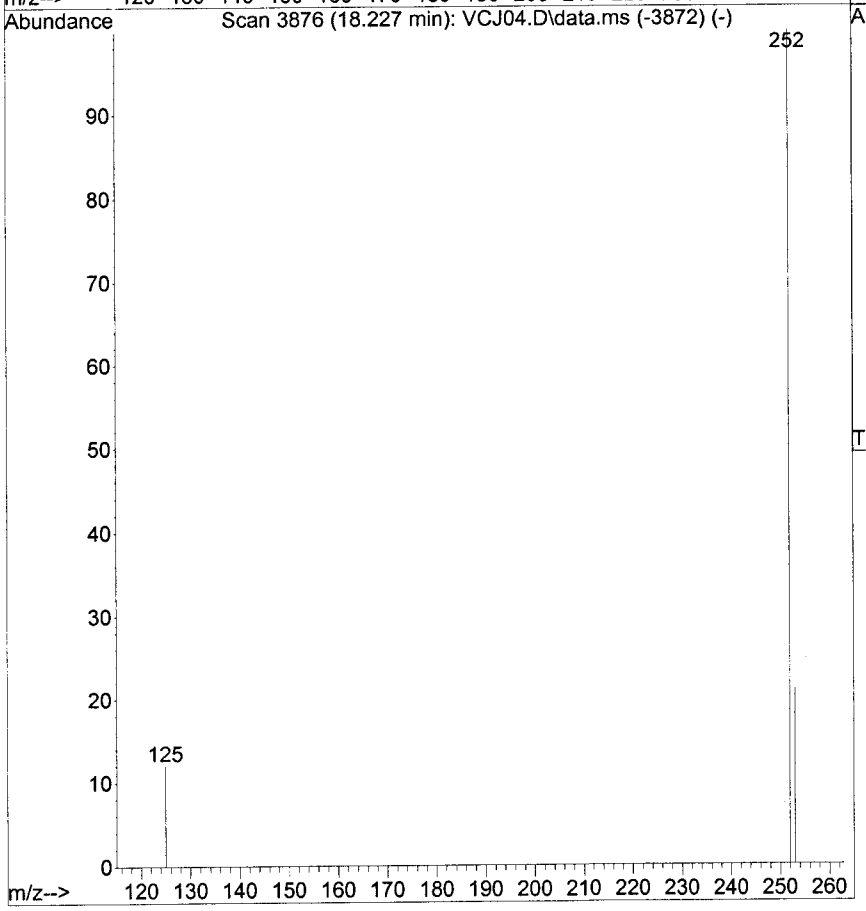
#24
Benzo(k)fluoranthene
Concen: 0.0015 ug/mL
RT: 18.203 min Scan# 3869
Delta R.T. -0.024 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

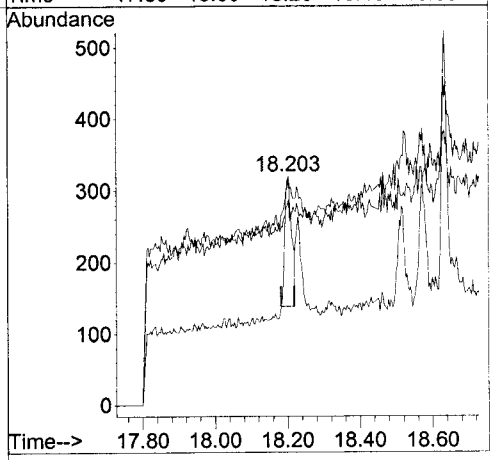
Tgt Ion:252 Resp: 239

Ion	Ratio	Lower	Upper
252	100		
253	99.1	1.1	41.1#
125	89.7	0.0	21.1#



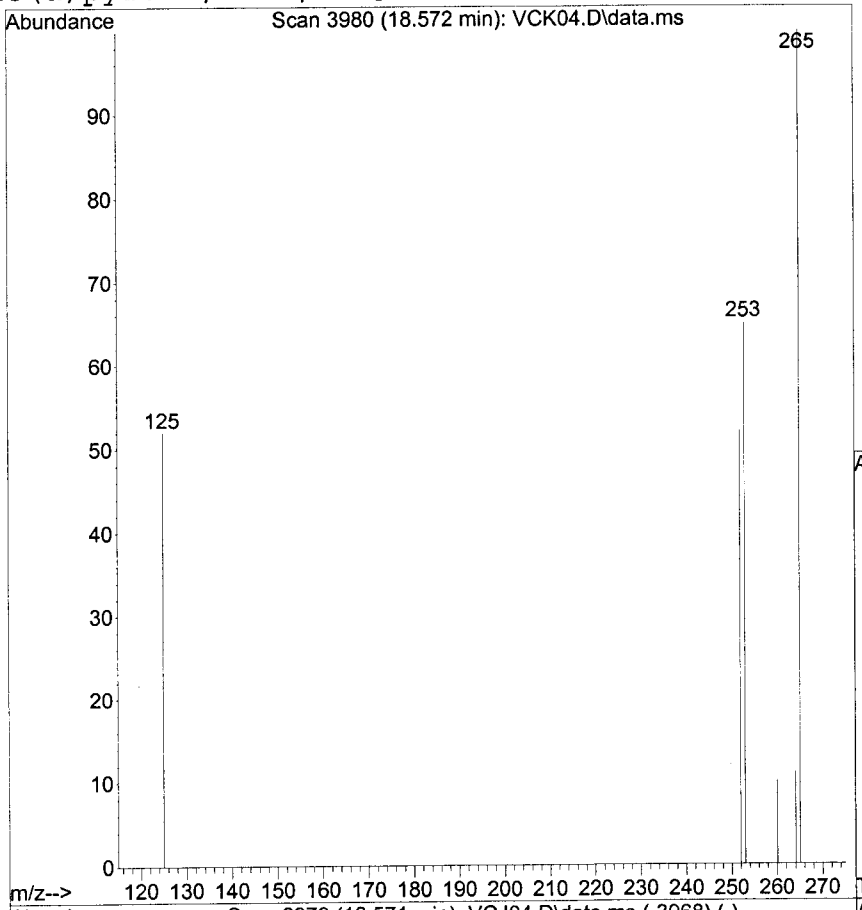
Ref





[Benzo(a)pyrene; <RL; u]

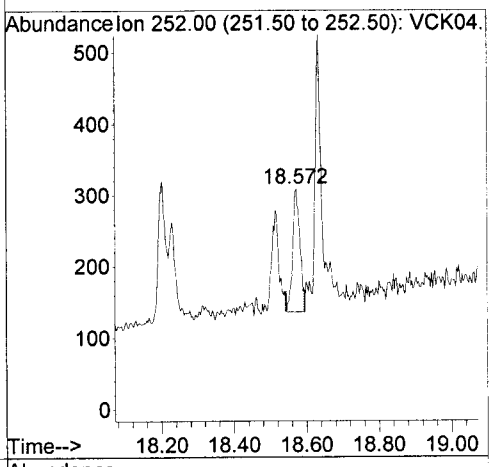
Raw



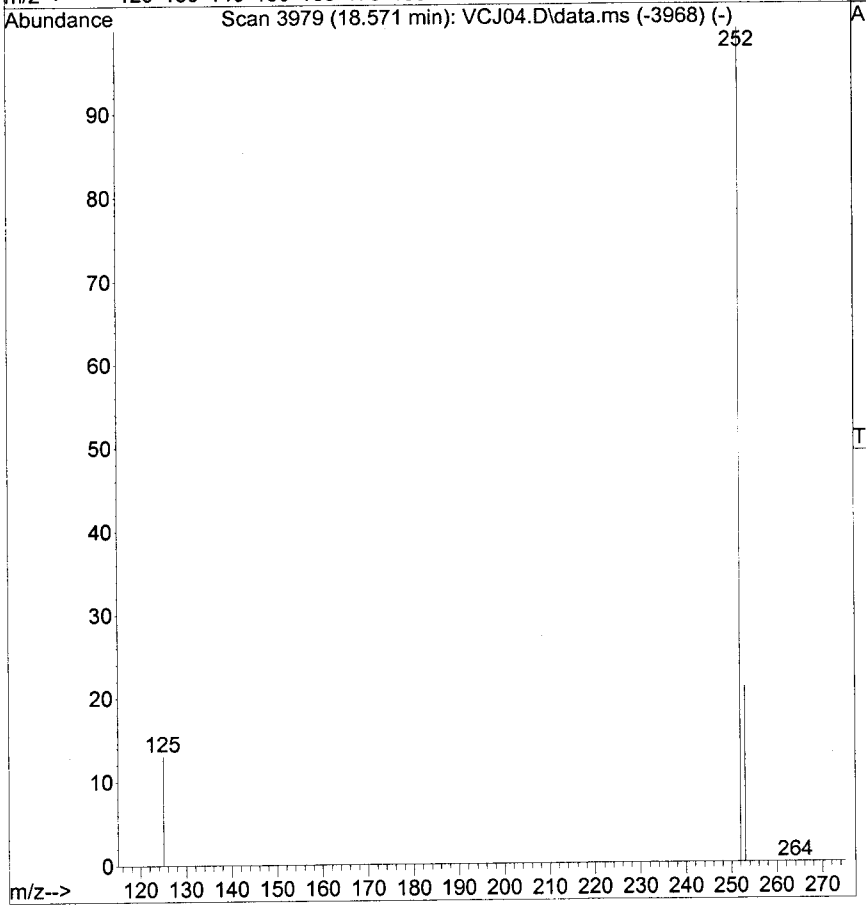
#25
Benzo(a)pyrene
Concen: 0.0018 ug/mL
RT: 18.572 min Scan# 3980
Delta R.T. 0.001 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

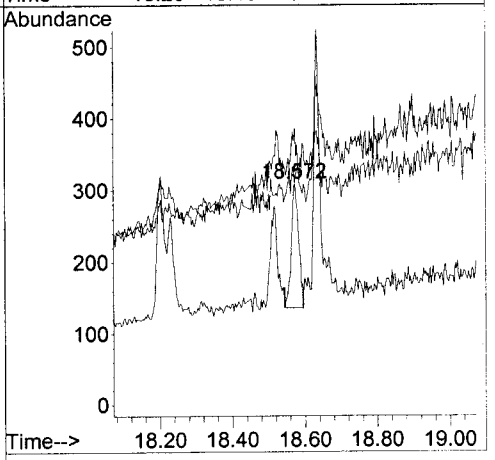
Tgt Ion:252 Resp: 244

Ion	Ratio	Lower	Upper
252	100		
253	124.9	3.4	43.4#
125	100.3	0.0	20.9#



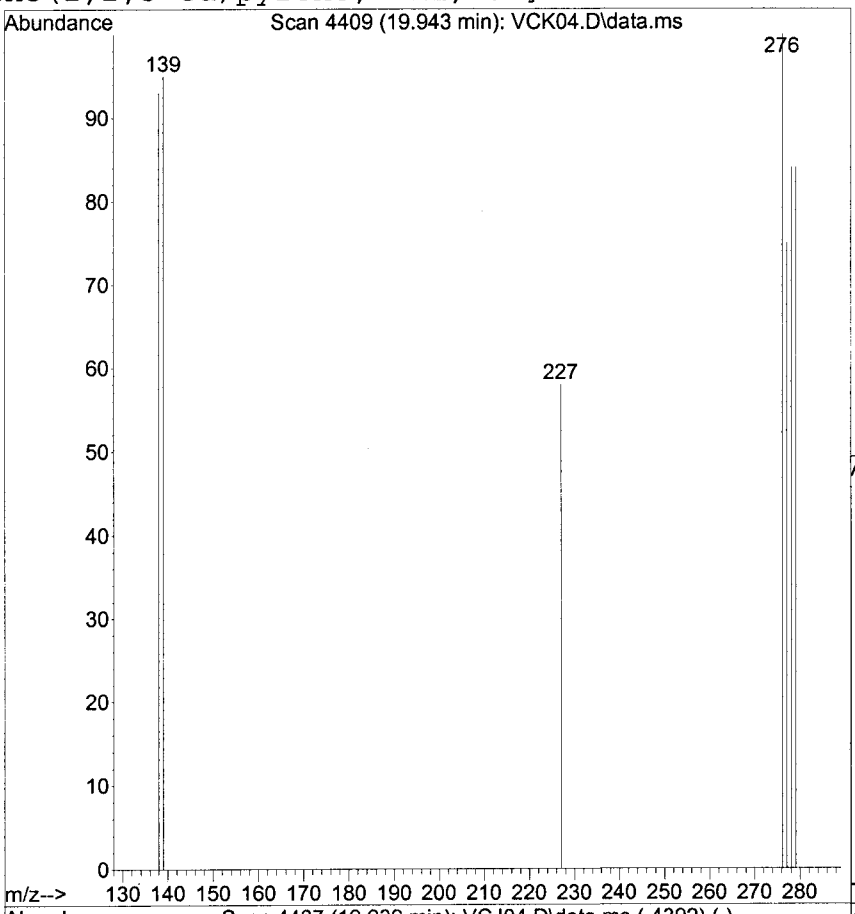
Ref





[Indeno(1,2,3-cd)pyrene; <RL; u]

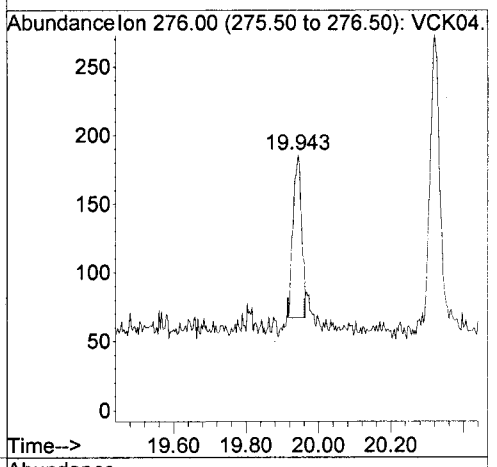
Raw



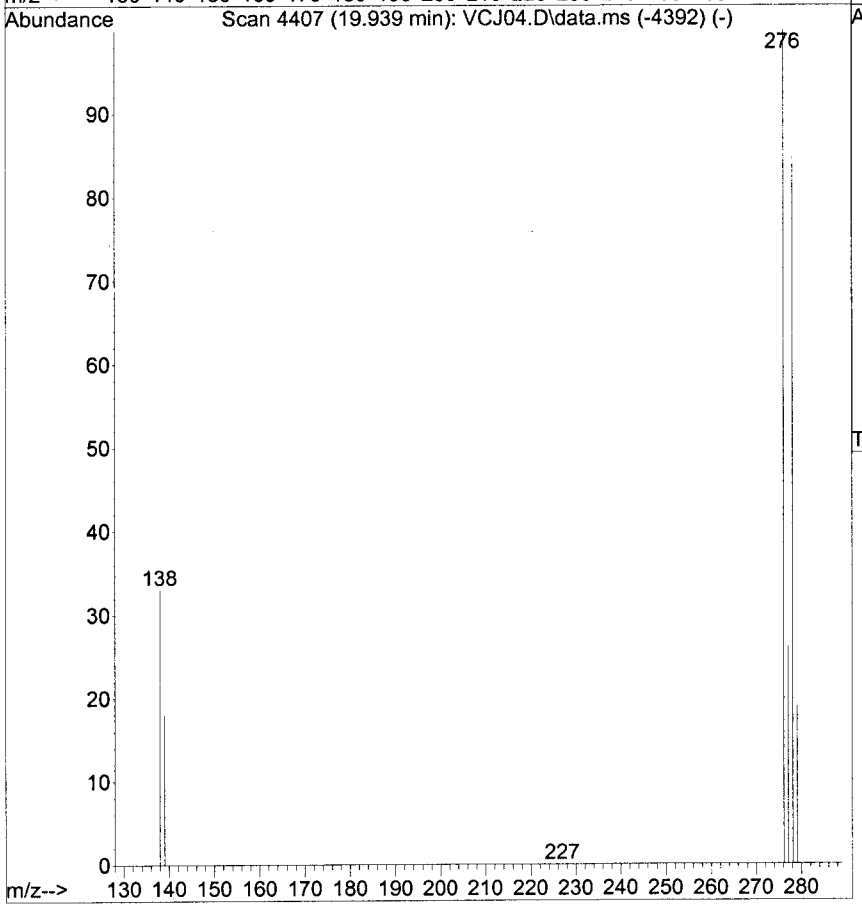
#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0018 ug/mL
RT: 19.943 min Scan# 4409
Delta R.T. 0.004 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

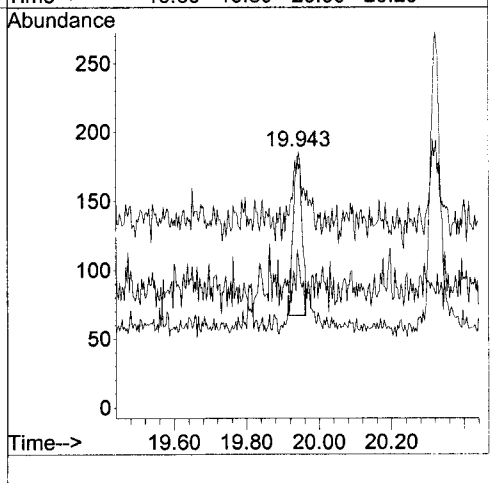
Tgt Ion:276 Resp: 194

Ion	Ratio	Lower	Upper
276	100		
138	93.0	0.0	23.1#
227	57.5	0.0	21.0#



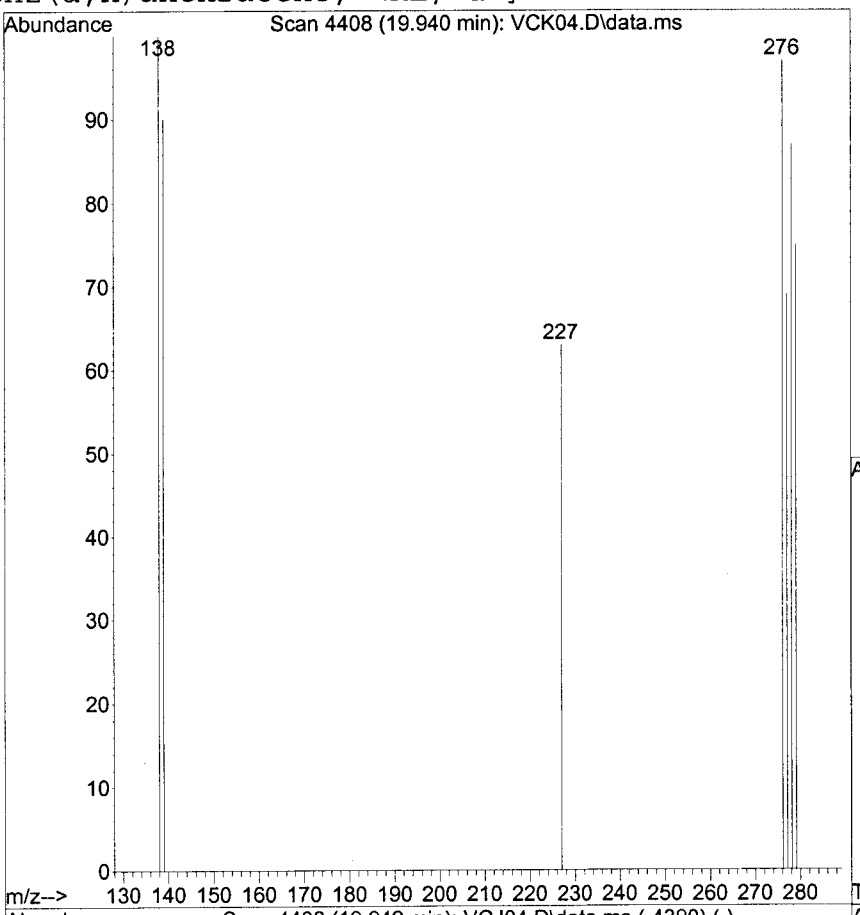
Ref





[Dibenz(a,h)anthracene; <RL; u]

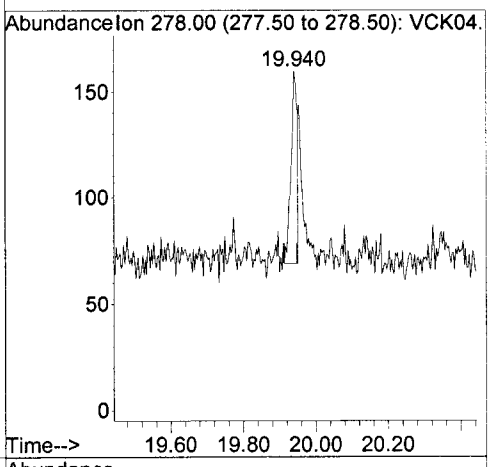
Raw



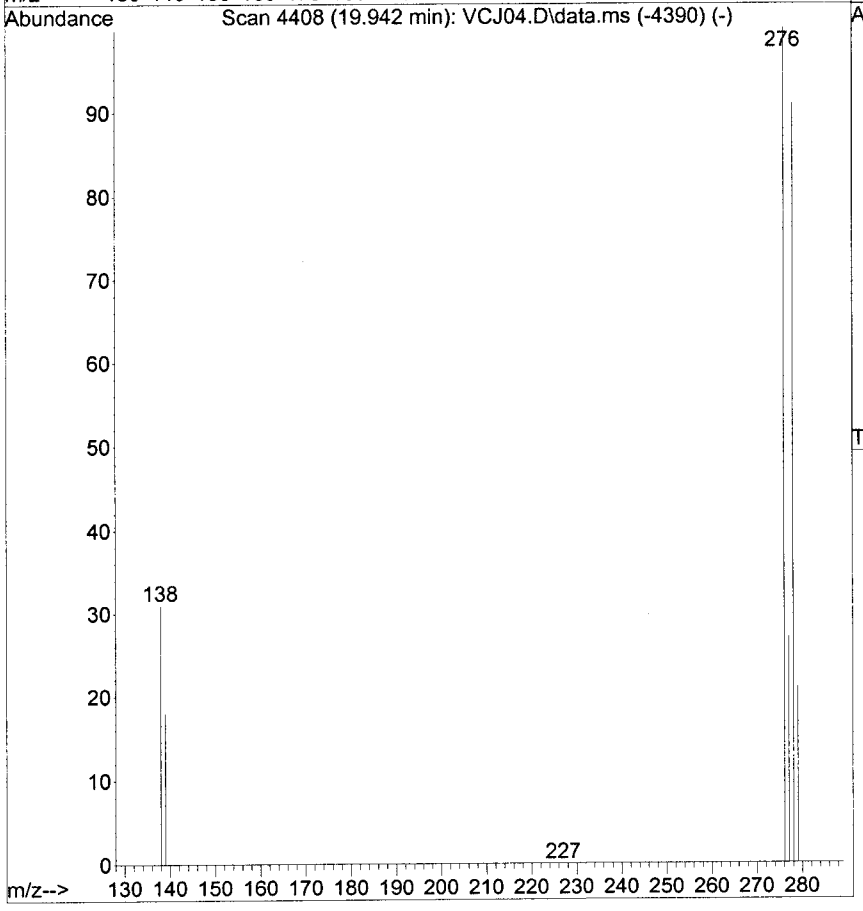
#27
Dibenz(a,h)anthracene
Concen: 0.0012 ug/mL
RT: 19.940 min Scan# 4408
Delta R.T. -0.002 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

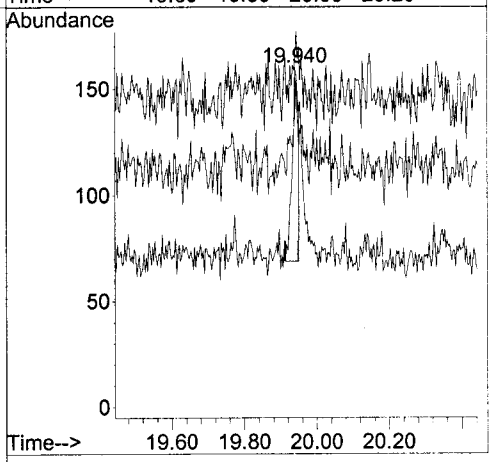
Tgt Ion:278 Resp: 105

Ion	Ratio	Lower	Upper
278	100		
139	103.1	0.0	22.2#
279	86.3	0.7	40.7#



Ref

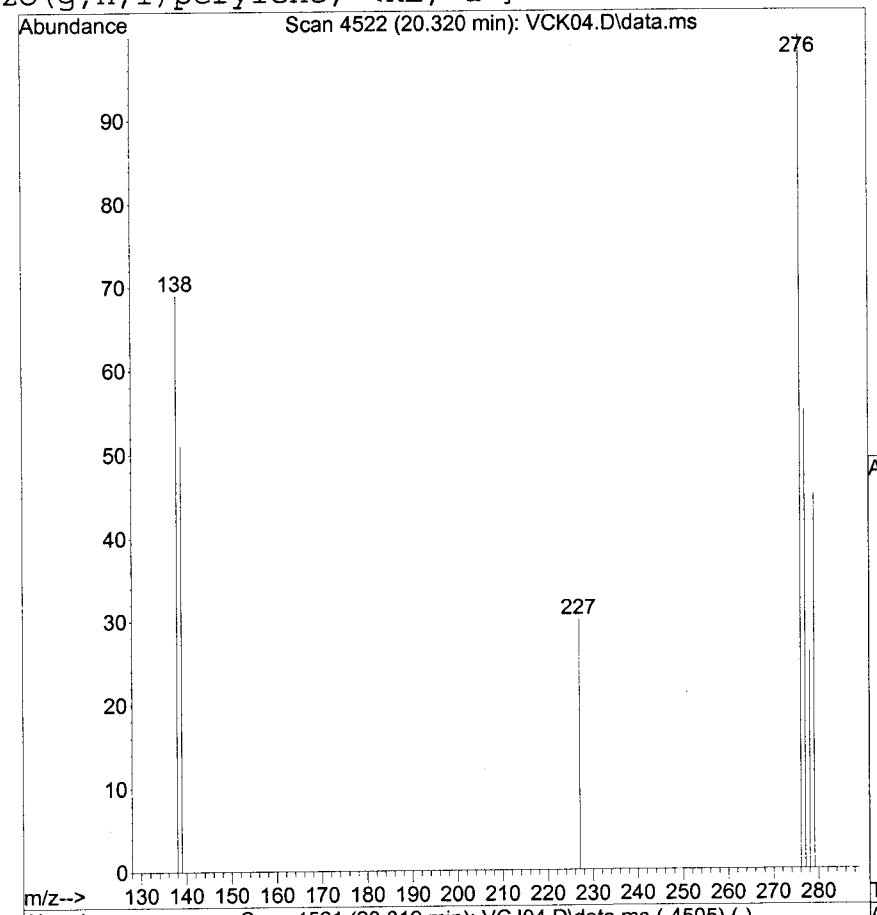




00266

[Benzo(g,h,i)perylene; <RL; u]

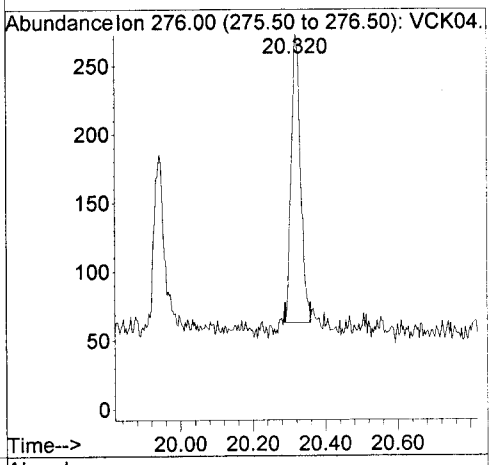
Raw



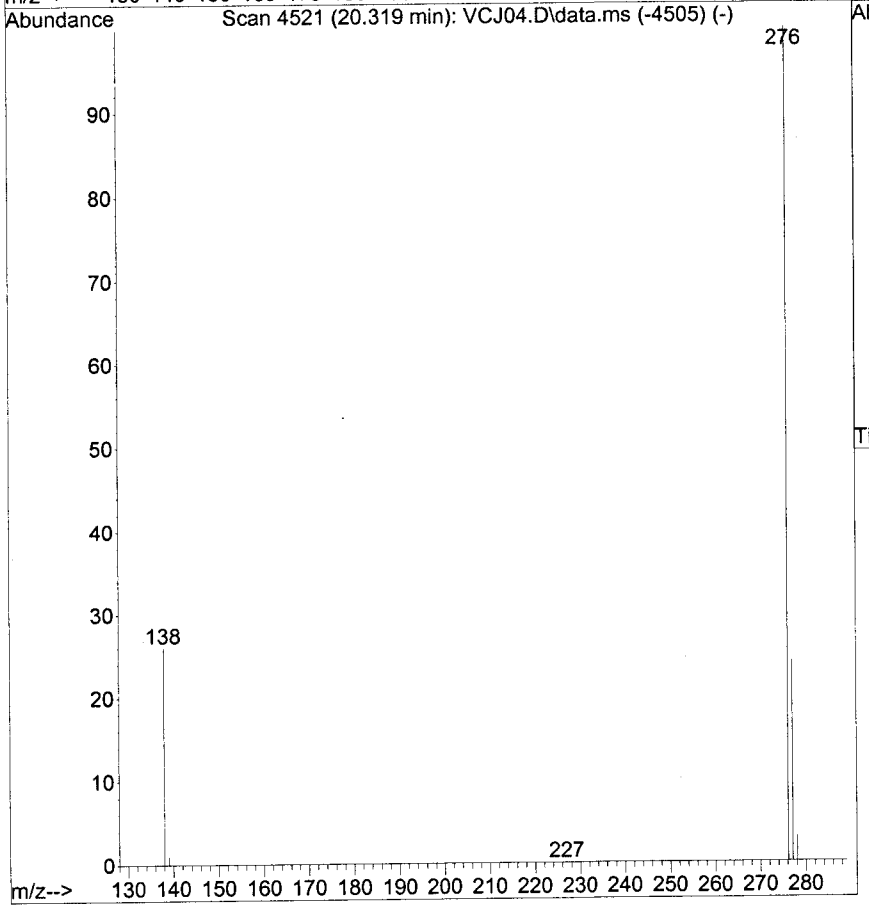
#28
Benzo(g,h,i)perylene
Concen: 0.0042 ug/mL
RT: 20.320 min Scan# 4522
Delta R.T. 0.001 min
Lab File: VCK04.D
Acq: 20 Mar 2008 9:02 am

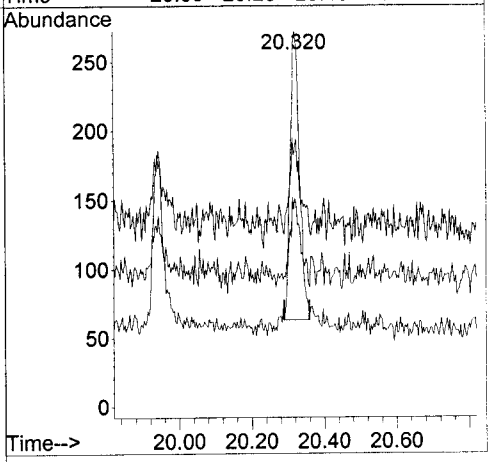
Tgt Ion:276 Resp: 376

Ion	Ratio	Lower	Upper
276	100		
138	68.9	0.0	22.1#
277	55.3	2.5	42.5#



Ref





CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 MSSIM Soil
EPA 8270C-SIM

Type : LCS
Inst : MSBNA03
Seqnum : 528115647005.1
File : vck05
IDF : 1.0
Lab ID : QC433672
Matrix : Soil
Batch : 136173
Time : 20-MAR-2008 09:40
Cal : 528107208001
Units : ug/Kg

LCS: 30.04 g --> 1.0 ml = 0.03329 ml/g PDF

Analyte	Spiked	On Col	LCS	%Rec	Limits	Flags
Acenaphthene	33.29	0.9024	30.04	90	31-137	u
Pyrene	33.29	0.8694	28.94	87	35-142	u
Nitrobenzene-d5	33.29	0.8563	28.51	86	23-120	u
2-Fluorobiphenyl	33.29	0.8959	29.82	90	30-115	u
Terphenyl-d14	33.29	0.8355	27.81	84	18-137	u

ISTD (CCV vck03)	CCV Area	LCS Area	%Drift	CCV RT	LCS RT	Drift
Naphthalene-d8	128478	99278	-22.73	9.20	9.20	0.00
Acenaphthene-d10	89562	70483	-21.30	11.51	11.51	0.00
Phenanthrene-d10	151421	128459	-15.16	13.45	13.45	0.00
Chrysene-d12	155293	123926	-20.20	16.91	16.91	0.00
Perylene-d12	140300	115580	-17.62	18.64	18.64	0.00

JAJ: 03/20/08 LLH: 03/20/08 EAH: 03/21/08

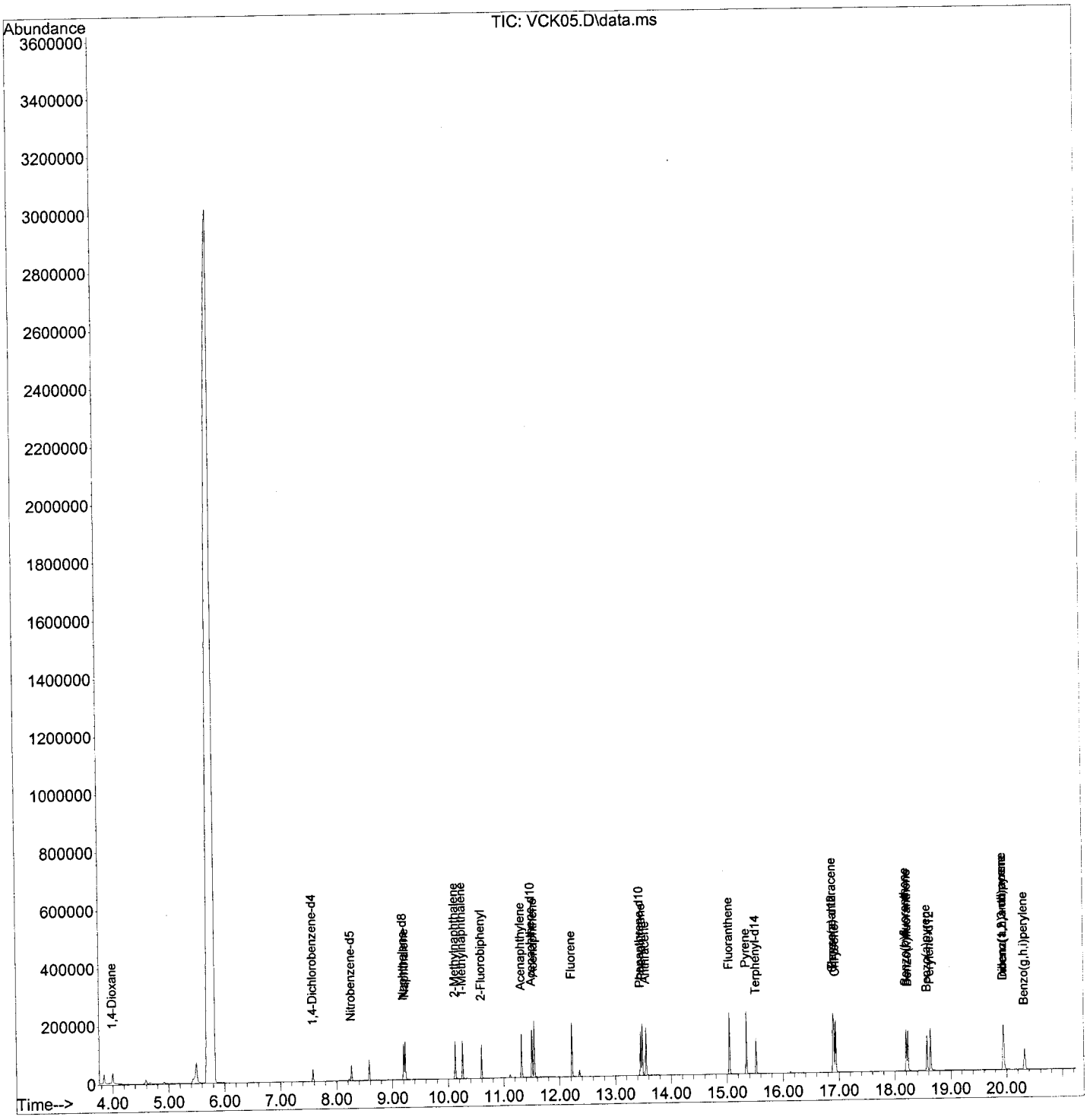
u=use

528115647005.1

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : VCK05.D
Acq On : 20 Mar 2008 9:40 am
Operator :
Sample : LCS,QC433672
Misc : 136173,1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 20 11:02:44 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Wed Mar 19 13:05:50 2008
Response via : Initial Calibration



00269

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : VCK05.D
Acq On : 20 Mar 2008 9:40 am
Operator :
Sample : LCS,QC433672
Misc : 136173,1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 20 11:02:44 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Wed Mar 19 13:05:50 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.578	152	28726	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.201	136	99278	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.506	164	70483	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.452	188	128459	1.0000	ug/mL	0.00
17) Chrysene-d12	16.905	240	123926	1.0000	ug/mL	0.00
22) Perylene-d12	18.635	264	115580	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.999	88	34554	2.7354	ug/mL	# 52
4) Nitrobenzene-d5	8.265	82	24422	0.8563	ug/mL	86
5) Naphthalene	9.229	128	99178	0.8912	ug/mL	100
6) 2-Methylnaphthalene	10.125	142	67843	0.8937	ug/mL	93
7) 1-Methylnaphthalene	10.256	142	67742	0.8601	ug/mL	99
9) 2-Fluorobiphenyl	10.597	172	82742	0.8959	ug/mL	97
10) Acenaphthylene	11.318	152	107845	0.9477	ug/mL	99
11) Acenaphthene	11.548	154	68223	0.9024	ug/mL	91
12) Fluorene	12.218	166	89309	0.9658	ug/mL	98
14) Phenanthrene	13.483	178	134374	0.8859	ug/mL	100
15) Anthracene	13.549	178	126937	0.9063	ug/mL	98
16) Fluoranthene	15.044	202	145583	0.9185	ug/mL	98
18) Pyrene	15.345	202	147235	0.8694	ug/mL	99
19) Terphenyl-d14	15.520	244	102395	0.8355	ug/mL	85
20) Benzo(a)anthracene	16.890	228	134492	0.9316	ug/mL	97
21) Chrysene	16.938	228	132060	0.8771	ug/mL	94
23) Benzo(b)fluoranthene	18.199	252	118358	0.7473	ug/mL	98
24) Benzo(k)fluoranthene	18.232	252	121367	0.7651	ug/mL	97
25) Benzo(a)pyrene	18.575	252	102747	0.7570	ug/mL	97
26) Indeno(1,2,3-cd)pyrene	19.942	276	93302	0.8732	ug/mL	# 32
27) Dibenz(a,h)anthracene	19.945	278	77421	0.8609	ug/mL	90
28) Benzo(g,h,i)perylene	20.322	276	78831	0.8789	ug/mL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202043 MSSIM Soil
EPA 8270C-SIM

Type	: MSS	Type	: MS	Type	: MSD
Inst	: MSBNA03	Inst	: MSBNA03	Inst	: MSBNA03
Seqnum	: 528115647006	Seqnum	: 528115647007.1	Seqnum	: 528115647008.1
File	: vck06	File	: vck07	File	: vck08
IDF	: 1.0	IDF	: 1.0	IDF	: 1.0
Lab ID	: 202043-001	Lab ID	: QC433673	Lab ID	: QC433674
Matrix	: Soil	Matrix	: Soil	Matrix	: Soil
Batch	: 136173	Batch	: 136173	Batch	: 136173
Time	: 20-MAR-2008 10:15	Time	: 20-MAR-2008 10:49	Time	: 20-MAR-2008 11:24
Cal	: 528107208001	Cal	: 528107208001	Cal	: 528107208001
Units	: ug/Kg				

MSS: 29.57 g --> 1.0 ml = 0.03382 ml/g PDF
MS: 29.80 g --> 1.0 ml = 0.03356 ml/g PDF
MSD: 29.66 g --> 1.0 ml = 0.03372 ml/g PDF

Analyte	MSS	Spiked	MS On Col	MS Result	%Rec	Spiked	MSD On Col	MSD Result	%Rec	Limits	RPD	Lim	Flags
Acenaphthene	ND	33.56	0.9626	32.30	96	33.72	0.8592	28.97	86	31-137	11	19	u
Pyrene	4.136 J	33.56	1.097	36.81	97	33.72	1.056	35.60	93	35-142	4	36	u
Nitrobenzene-d5		33.56	0.9620	32.28	96	33.72	0.8592	28.97	86	23-120			u
2-Fluorobiphenyl		33.56	0.9013	30.24	90	33.72	0.8168	27.54	82	30-115			u
Terphenyl-d14		33.56	0.9043	30.35	90	33.72	0.8266	27.87	83	18-137			u

ISTD (CCV vck03)	CCV Area	MS Area	%Drift	CCV RT	MS RT	Drift
Naphthalene-d8	128478	96589	-24.82	9.20	9.20	0.00
Acenaphthene-d10	89562	68997	-22.96	11.51	11.51	0.00
Phenanthrene-d10	151421	126828	-16.24	13.45	13.45	0.00
Chrysene-d12	155293	119054	-23.34	16.91	16.91	0.00
Perylene-d12	140300	114192	-18.61	18.64	18.64	0.00

ISTD (CCV vck03)	CCV Area	MSD Area	%Drift	CCV RT	MSD RT	Drift
Naphthalene-d8	128478	101587	-20.93	9.20	9.20	0.00
Acenaphthene-d10	89562	71302	-20.39	11.51	11.50	-0.01
Phenanthrene-d10	151421	132953	-12.20	13.45	13.45	0.00
Chrysene-d12	155293	121721	-21.62	16.91	16.91	0.00
Perylene-d12	140300	115541	-17.65	18.64	18.64	0.00

LLH: 03/20/08 JAJ: 03/20/08 EAH: 03/21/08

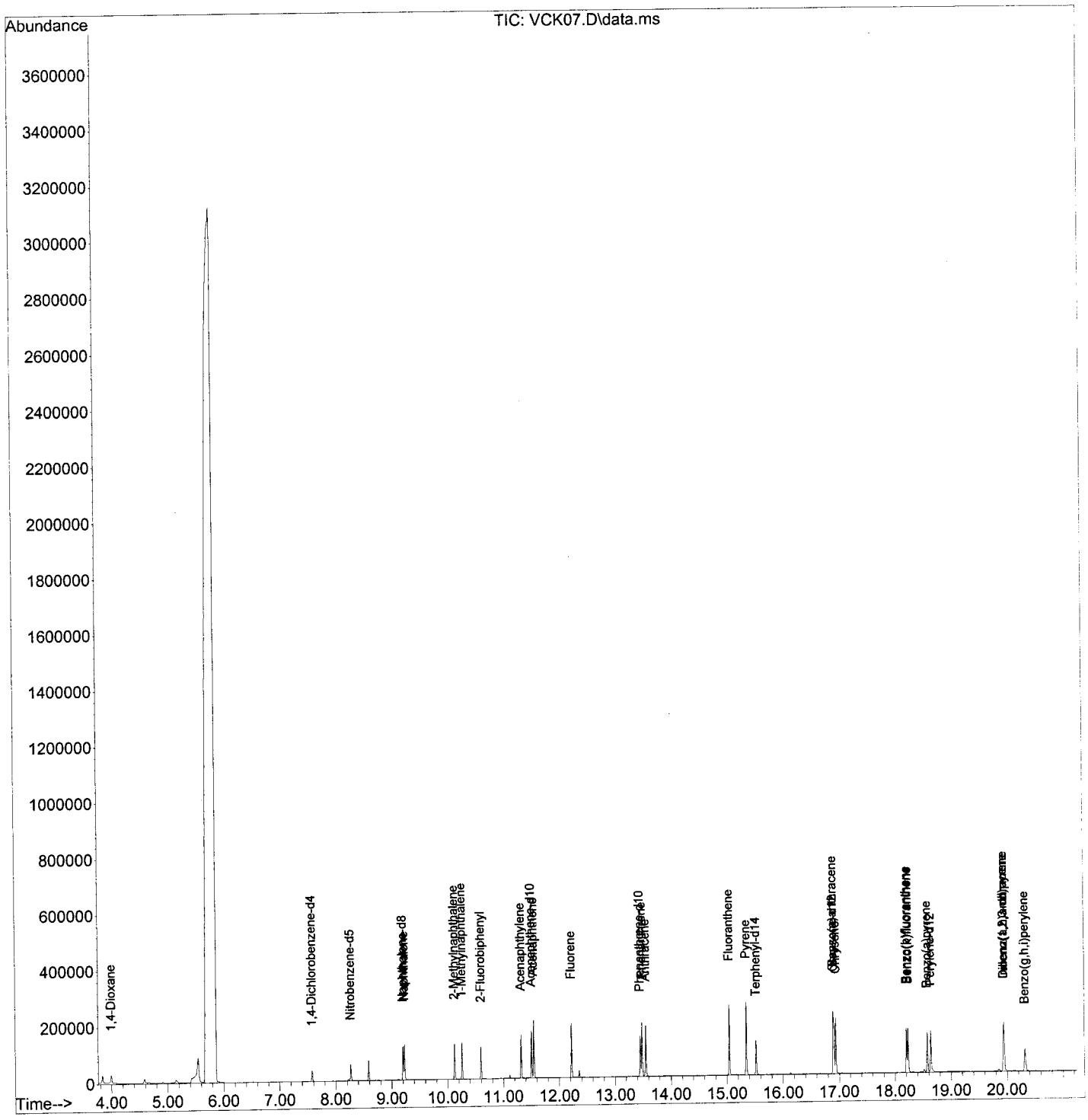
u=use

528115647008.1

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK07.D
Acq On : 20 Mar 2008 10:49 am
Operator :
Sample : MS,QC433673
Misc : 136173,1,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 20 13:14:46 2008
Quant Method : G:\msbna03\032008\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration



: 00272

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK07.D
Acq On : 20 Mar 2008 10:49 am
Operator :
Sample : MS,QC433673
Misc : 136173,1,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 20 13:14:46 2008
Quant Method : G:\msbna03\032008\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration

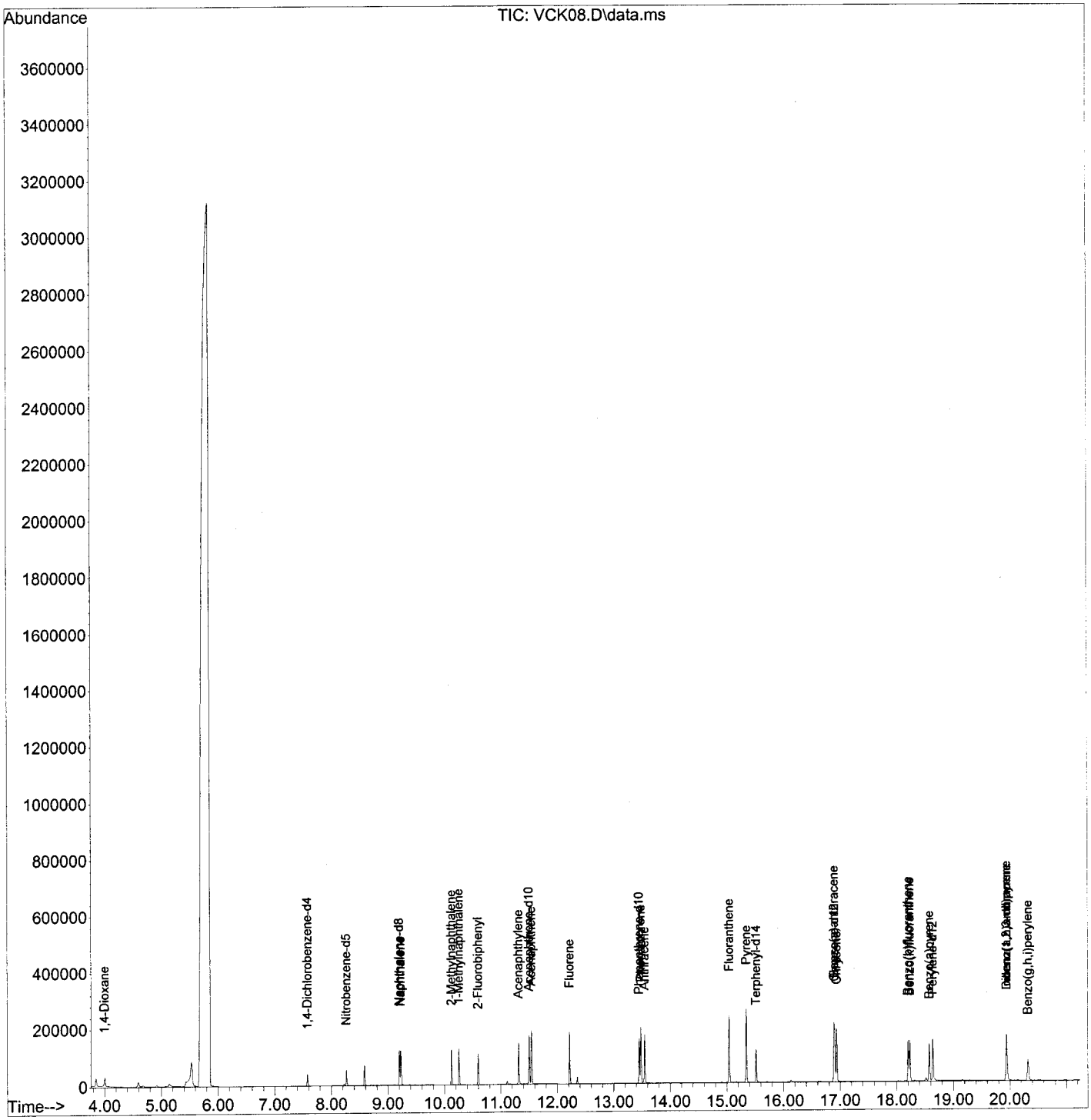
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.578	152	27506	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.201	136	96589	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.506	164	68997	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.453	188	126828	1.0000	ug/mL	0.00
17) Chrysene-d12	16.905	240	119054	1.0000	ug/mL	0.00
22) Perylene-d12	18.635	264	114192	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.995	88	31900	2.6373	ug/mL	# 62
4) Nitrobenzene-d5	8.265	82	26695	0.9620	ug/mL	85
5) Naphthalene	9.229	128	98061	0.9057	ug/mL	99
6) 2-Methylnaphthalene	10.125	142	67823	0.9183	ug/mL	91
7) 1-Methylnaphthalene	10.256	142	67995	0.8874	ug/mL	95
9) 2-Fluorobiphenyl	10.597	172	81484	0.9013	ug/mL	97
10) Acenaphthylene	11.317	152	110129	0.9887	ug/mL	99
11) Acenaphthene	11.544	154	71242	0.9626	ug/mL	96
12) Fluorene	12.218	166	92012	1.0164	ug/mL	99
14) Phenanthrene	13.483	178	146422	0.9778	ug/mL	99
15) Anthracene	13.549	178	135348	0.9788	ug/mL	98
16) Fluoranthene	15.044	202	169269	1.0817	ug/mL	98
18) Pyrene	15.344	202	178482	1.0970	ug/mL	100
19) Terphenyl-d14	15.519	244	106476	0.9043	ug/mL	85
20) Benzo(a)anthracene	16.890	228	151259	1.0906	ug/mL	98
21) Chrysene	16.938	228	148055	1.0236	ug/mL	94
23) Benzo(b)fluoranthene	18.201	252	131339	0.8394	ug/mL	97
24) Benzo(k)fluoranthene	18.230	252	134226	0.8565	ug/mL	96
25) Benzo(a)pyrene	18.572	252	119550	0.8915	ug/mL	96
26) Indeno(1,2,3-cd)pyrene	19.939	276	104329	0.9882	ug/mL	# 34
27) Dibenz(a,h)anthracene	19.943	278	82100	0.9240	ug/mL	90
28) Benzo(g,h,i)perylene	20.319	276	88892	1.0031	ug/mL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK08.D
Acq On : 20 Mar 2008 11:24 am
Operator :
Sample : MSD,QC433674
Misc : 136173,1,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 20 13:14:54 2008
Quant Method : G:\msbna03\032008\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration



00274

Quantitation Report (Not Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK08.D
Acq On : 20 Mar 2008 11:24 am
Operator :
Sample : MSD,QC433674
Misc : 136173,1,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 20 13:14:54 2008
Quant Method : G:\msbna03\032008\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Thu Mar 20 11:04:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.579	152	28729	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.202	136	101587	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.502	164	71302	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.452	188	132953	1.0000	ug/mL	0.00
17) Chrysene-d12	16.906	240	121721	1.0000	ug/mL	0.00
22) Perylene-d12	18.636	264	115541	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	4.006	88	30029	2.3770	ug/mL	# 64
4) Nitrobenzene-d5	8.265	82	25075	0.8592	ug/mL	86
5) Naphthalene	9.230	128	94280	0.8279	ug/mL	99
6) 2-Methylnaphthalene	10.125	142	64780	0.8339	ug/mL	89
7) 1-Methylnaphthalene	10.257	142	64436	0.7996	ug/mL	94
9) 2-Fluorobiphenyl	10.598	172	76312	0.8168	ug/mL	98
10) Acenaphthylene	11.317	152	104016	0.9036	ug/mL	99
11) Acenaphthene	11.544	154	65715	0.8592	ug/mL	97
12) Fluorene	12.217	166	86079	0.9202	ug/mL	99
14) Phenanthrene	13.482	178	146480	0.9331	ug/mL	99
15) Anthracene	13.548	178	127183	0.8773	ug/mL	98
16) Fluoranthene	15.044	202	164020	0.9999	ug/mL	98
18) Pyrene	15.345	202	175630	1.0559	ug/mL	99
19) Terphenyl-d14	15.516	244	99499	0.8266	ug/mL	83
20) Benzo(a)anthracene	16.891	228	140466	0.9906	ug/mL	97
21) Chrysene	16.939	228	135709	0.9177	ug/mL	94
23) Benzo(b)fluoranthene	18.200	252	118618	0.7492	ug/mL	96
24) Benzo(k)fluoranthene	18.230	252	121599	0.7669	ug/mL	97
25) Benzo(a)pyrene	18.573	252	109341	0.8058	ug/mL	97
26) Indeno(1,2,3-cd)pyrene	19.943	276	96570	0.9040	ug/mL	# 36
27) Dibenz(a,h)anthracene	19.946	278	75738	0.8424	ug/mL	90
28) Benzo(g,h,i)perylene	20.319	276	83402	0.9302	ug/mL	# 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Curtis & Tompkins, Ltd.

Initial Calibration Raw Data

CURTIS & TOMPKINS DFTPP TUNE FOR EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528107208005.1 File : vce05 Time : 14-MAR-2008 12:55

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	200008	53.84	
68	< 2% of mass 69	0	0.00	
69		195968		
70	< 2% of mass 69	247	0.13	
127	40% - 60% of mass 198	190549	51.29	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	25749	6.93	
275	10% - 30% of mass 198	102864	27.69	
365	> 1% of mass 198	8269	2.23	
441	Present, < mass 443	49816	89.45	
442	> 40% and < 100% of mass 198	275264	74.09	
443	17% - 23% of mass 442	55693	20.23	

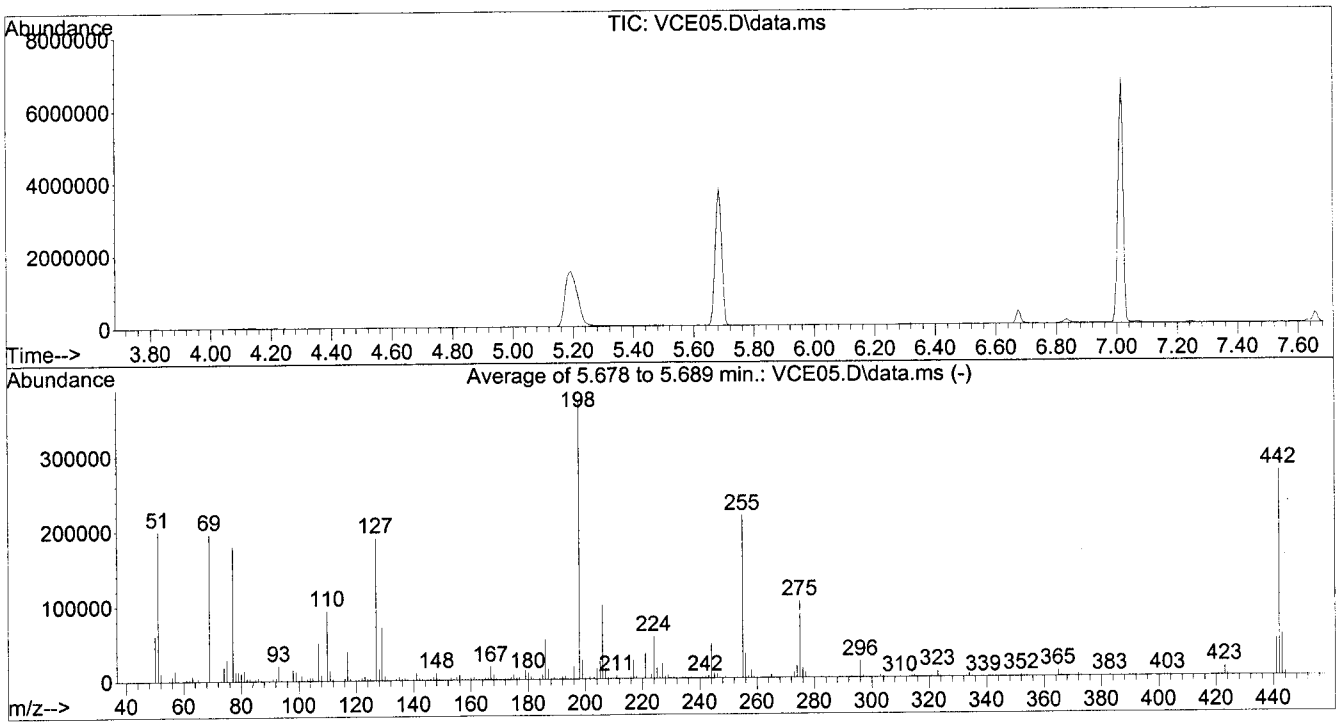
Analyst: JGM Date: 03/17/08 Reviewer: LLH Date: 03/21/08

528107208005.1

Data Path : G:\msbna03\031408\
Data File : VCE05.D
Acq On : 14 Mar 2008 12:55 pm
Operator :
Sample : TUN,S7771
Misc : DFTPP/PEM 50ug/mL
ALS Vial : 1 Sample Multiplier: 1

Integration File: normal.p

Method : G:\msbna03\031408\DFTPP03.M
Title : MSBNA03 BNA DFTPP/PEM
Last Update : Mon Mar 03 18:20:19 2008



AutoFind: Scans 628, 629, 630; Background Corrected with Scan 621

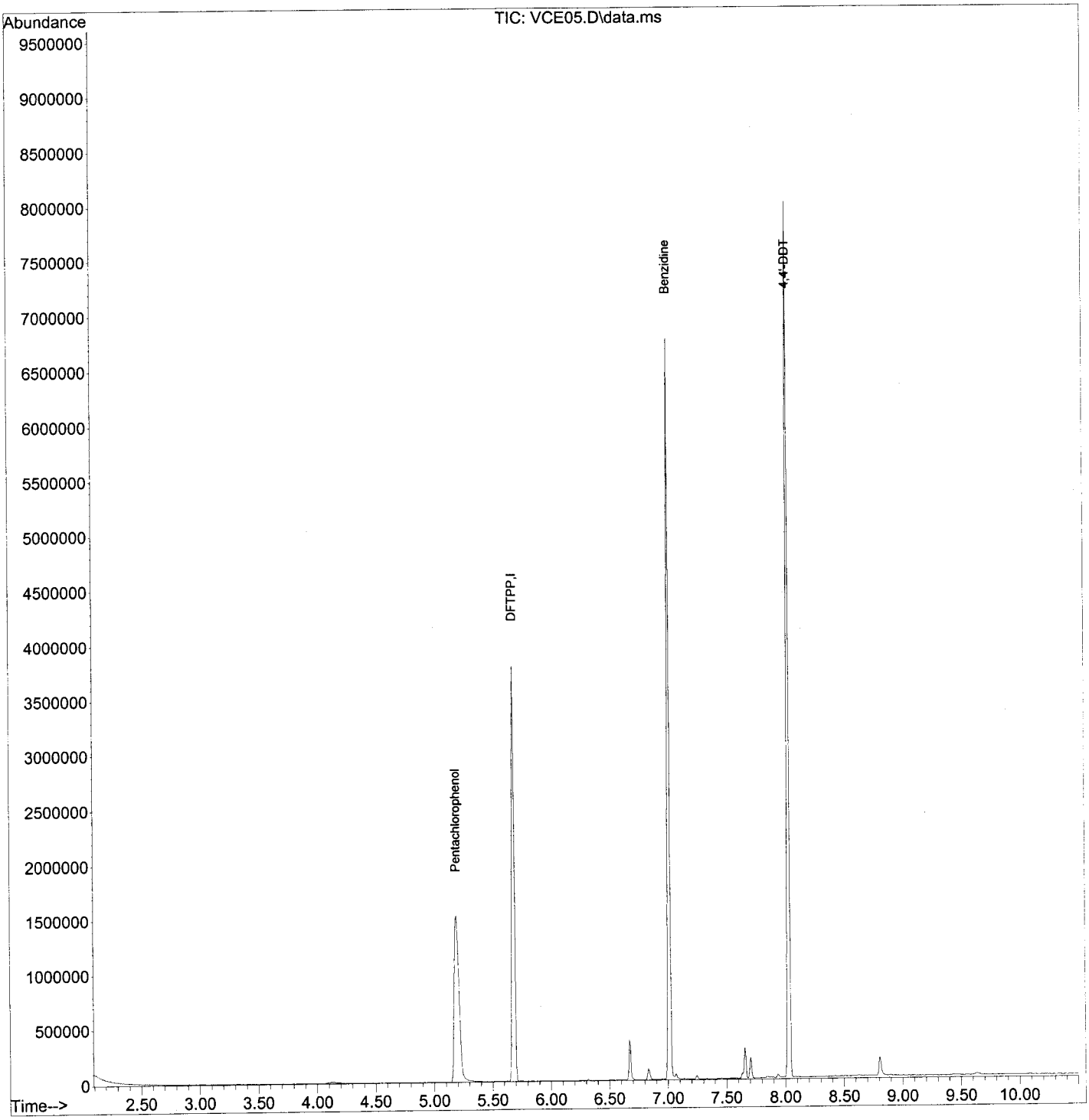
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.8	200008	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.7	195968	PASS
70	69	0.00	2	0.1	247	PASS
127	198	40	60	51.3	190549	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	371520	PASS
199	198	5	9	6.9	25749	PASS
275	198	10	30	27.7	102864	PASS
365	198	1	100	2.2	8269	PASS
441	443	0.01	100	89.4	49816	PASS
442	198	40	100	74.1	275264	PASS
443	442	17	23	20.2	55693	PASS

00278

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\031408\
Data File : VCE05.D
Acq On : 14 Mar 2008 12:55 pm
Operator :
Sample : TUN,S7771
Misc : DFTPP/PEM 50ug/mL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 14:06:36 2008
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon Mar 03 18:20:19 2008
Response via : Continuing Cal File: G:\msbna03\030308\VC313.D



00279

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\031408\
Data File : VCE05.D
Acq On : 14 Mar 2008 12:55 pm
Operator :
Sample : TUN,S7771
Misc : DFTPP/PEM 50ug/mL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 14:06:36 2008
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon Mar 03 18:20:19 2008
Response via : Continuing Cal File: G:\msbna03\030308\VC313.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.683	198	622366	50.0000	ug/mL	-0.04
4) 4,4'-DDT	8.033	235	1926180	50.0000	ug/mL	-0.04
Target Compounds						Qvalue
1) Pentachlorophenol	5.192	266	626509	32.4318	ug/mL	97
3) Benzidine	7.015	184	3533555	49.4379	ug/mL	98
5) 4,4'-DDE	7.244	246	4705	No CC lev		#
6) 4,4'-DDD	7.707	235	40941	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

CURTIS & TOMPKINS DFTPP TUNE FOR 202043 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528115647002 File : vck02 Time : 20-MAR-2008 08:01

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	104381	59.06	
68	< 2% of mass 69	0	0.00	
69		103578		
70	< 2% of mass 69	602	0.58	
127	40% - 60% of mass 198	97594	55.22	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	12582	7.12	
275	10% - 30% of mass 198	50210	28.41	
365	> 1% of mass 198	4973	2.81	
441	Present, < mass 443	32240	96.22	
442	> 40% and < 100% of mass 198	175424	99.25	
443	17% - 23% of mass 442	33506	19.10	

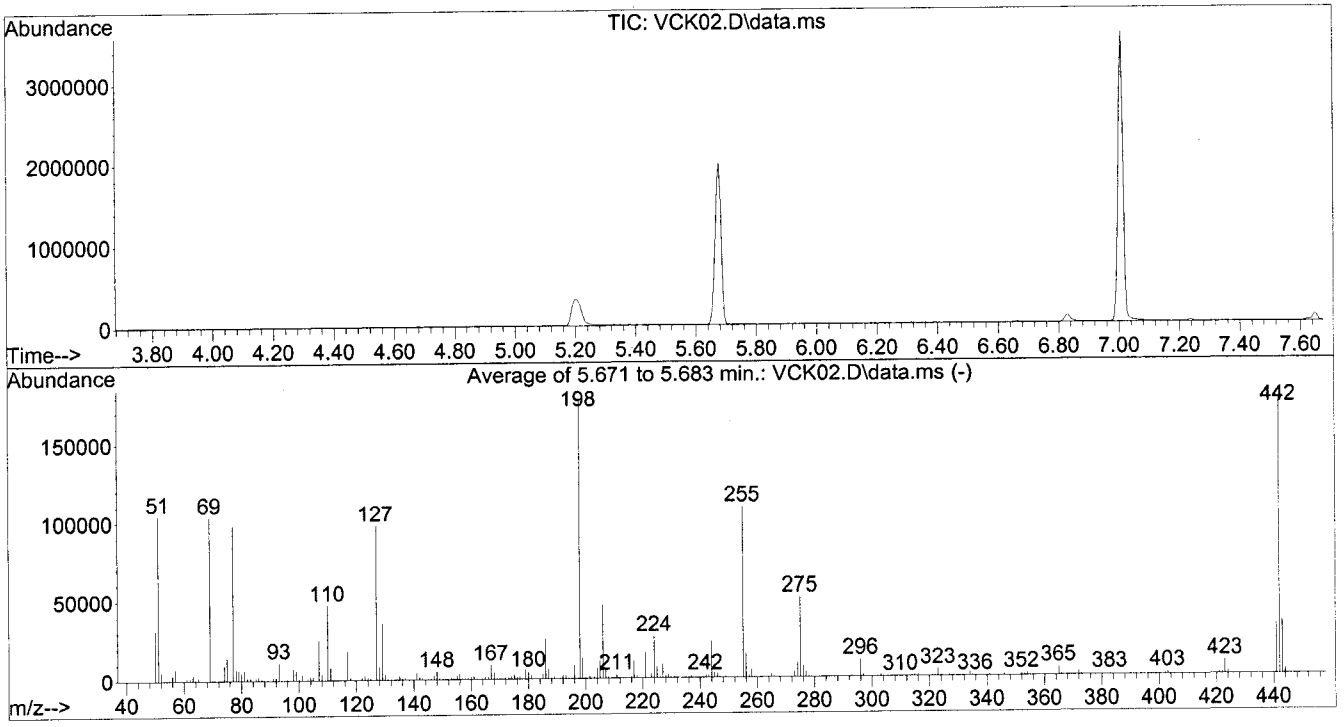
Analyst: JAJ Date: 03/20/08 Reviewer: LLH Date: 03/21/08

528115647002

Data Path : G:\msbna03\032008\
Data File : VCK02.D
Acq On : 20 Mar 2008 8:01 am
Operator :
Sample : TUN,S7771
Misc : DFTPP/PEM 50ug/mL
ALS Vial : 1 Sample Multiplier: 1

Integration File: normal.p

Method : G:\msbna03\031908\DFTPP03.M
Title : MSBNA03 BNA DFTPP/PEM
Last Update : Mon Mar 03 18:20:19 2008



AutoFind: Scans 627, 628, 629; Background Corrected with Scan 620

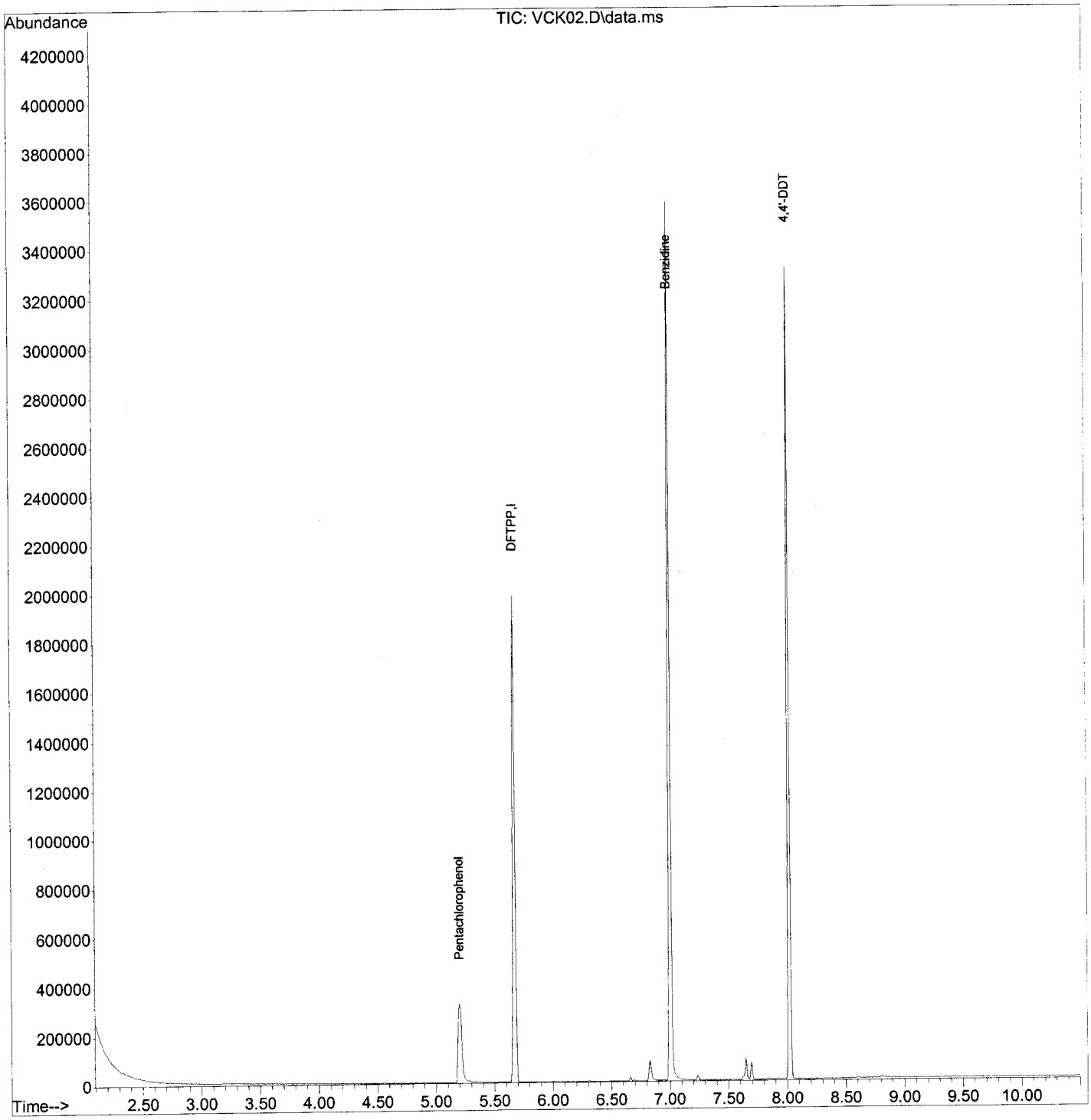
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.1	104381	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	58.6	103578	PASS
70	69	0.00	2	0.6	602	PASS
127	198	40	60	55.2	97594	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	176746	PASS
199	198	5	9	7.1	12582	PASS
275	198	10	30	28.4	50210	PASS
365	198	1	100	2.8	4973	PASS
441	443	0.01	100	96.2	32240	PASS
442	198	40	100	99.3	175424	PASS
443	442	17	23	19.1	33506	PASS

00282

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK02.D
Acq On : 20 Mar 2008 8:01 am
Operator :
Sample : TUN,S7771
Misc : DFTPP/PEM 50ug/mL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 20 09:17:25 2008
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon Mar 03 18:20:19 2008
Response via : Continuing Cal File: G:\msbna03\030308\VC313.D



00283

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK02.D
Acq On : 20 Mar 2008 8:01 am
Operator :
Sample : TUN,S7771
Misc : DFTPP/PEM 50ug/mL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 20 09:17:25 2008
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon Mar 03 18:20:19 2008
Response via : Continuing Cal File: G:\msbna03\030308\VC313.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.677	198	278975	50.0000	ug/mL	-0.05
4) 4,4'-DDT	8.020	235	743500	50.0000	ug/mL	-0.06
Target Compounds						Qvalue
1) Pentachlorophenol	5.202	266	104897	5.4301	ug/mL	92
3) Benzidine	7.009	184	1809716	56.4858	ug/mL	96
5) 4,4'-DDE	7.237	246	2158	No CC lev		#
6) 4,4'-DDD	7.649	235	33735m	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00284

CURTIS & TOMPKINS DFTPP TUNE FOR EPA 8270C

Inst : MSBNA08 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 578083102002.1 File : sbq02 Time : 26-FEB-2008 17:35

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	61925	46.51	
68	< 2% of mass 69	904	1.97	
69		46002		
70	< 2% of mass 69	91	0.20	
127	40% - 60% of mass 198	69899	52.50	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	9525	7.15	
275	10% - 30% of mass 198	32907	24.72	
365	> 1% of mass 198	5360	4.03	
441	Present, < mass 443	17914	79.65	
442	> 40% and < 100% of mass 198	119323	89.63	
443	17% - 23% of mass 442	22492	18.85	

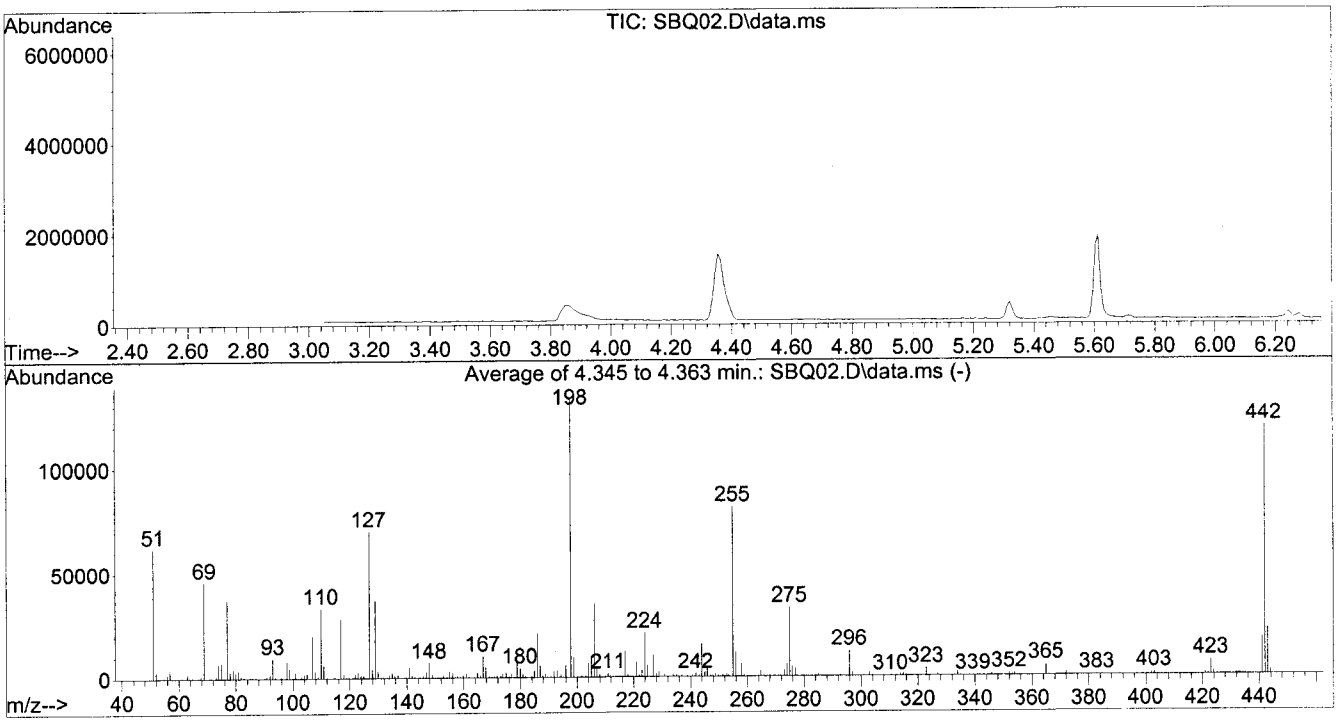
Analyst: JGM Date: 03/17/08 Reviewer: AD Date: 03/17/08

578083102002.1

Data Path : G:\msbna08\022608\
Data File : SBQ02.D
Acq On : 26 Feb 2008 5:35 pm
Operator :
Sample : TUN,S7771
Misc : DFTPP/PEM 50ug/mL
ALS Vial : 1 Sample Multiplier: 1

Integration File: normal.p

Method : G:\msbna08\022608\DFTPP08.M
Title : MSBNA08 BNA DFTPP/PEM
Last Update : Mon Feb 25 12:48:32 2008



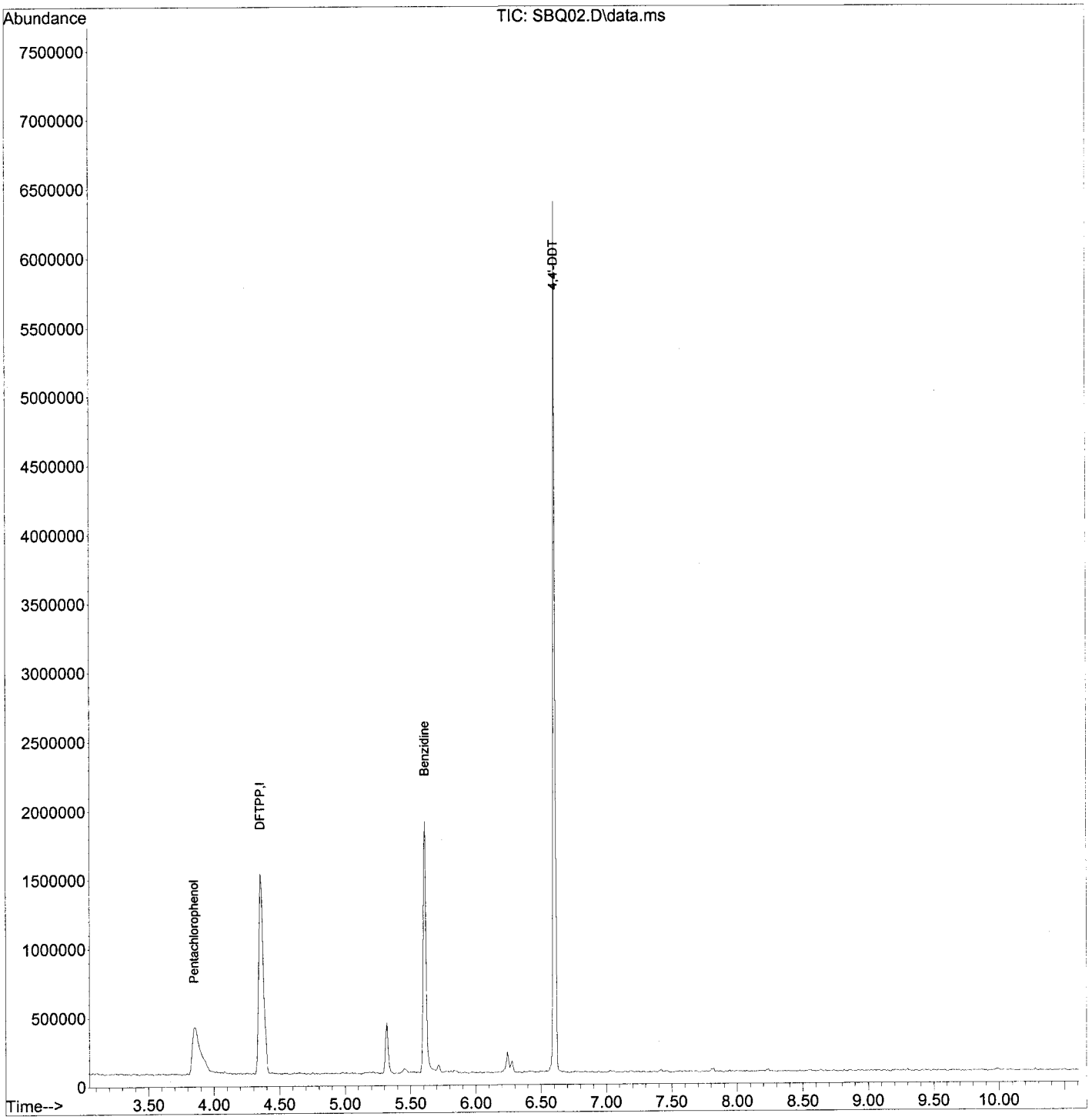
AutoFind: Scans 147, 148, 149; Background Corrected with Scan 142

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.5	61925	PASS
68	69	0.00	2	2.0	904	PASS
69	198	0.00	100	34.6	46002	PASS
70	69	0.00	2	0.2	91	PASS
127	198	40	60	52.5	69899	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	133130	PASS
199	198	5	9	7.2	9525	PASS
275	198	10	30	24.7	32907	PASS
365	198	1	100	4.0	5360	PASS
441	443	0.01	100	79.6	17914	PASS
442	198	40	100	89.6	119323	PASS
443	442	17	23	18.8	22492	PASS

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\022608\
Data File : SBQ02.D
Acq On : 26 Feb 2008 5:35 pm
Operator :
Sample : TUN,S7771
Misc : DFTPP/PEM 50ug/mL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 26 17:43:05 2008
Quant Method : C:\msdchem\1\METHODS\DFTPP08.M
Quant Title : MSBNA08 BNA DFTPP/PEM
QLast Update : Mon Feb 25 12:48:32 2008
Response via : Continuing Cal File: G:\msbna08\022508\Sbp01.d



00287

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\022608\
Data File : SBQ02.D
Acq On : 26 Feb 2008 5:35 pm
Operator :
Sample : TUN,S7771
Misc : DFTPP/PEM 50ug/mL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 26 17:43:05 2008
Quant Method : C:\msdchem\1\METHODS\DFTPP08.M
Quant Title : MSBNA08 BNA DFTPP/PEM
QLast Update : Mon Feb 25 12:48:32 2008
Response via : Continuing Cal File: G:\msbna08\022508\Sbp01.d

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	4.354	198	357501	50.0000	ug/mL	0.00
4) 4,4'-DDT	6.606	235	1160334	50.0000	ug/mL	0.00
Target Compounds						Qvalue
1) Pentachlorophenol	3.858	266	201108	170.1997	ug/mL	93
3) Benzidine	5.613	184	1135129	57.8795	ug/mL	99
5) 4,4'-DDE	5.843	246	3321	No CC lev		
6) 4,4'-DDD	6.242	235	53788	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00288

CURTIS & TOMPKINS DFTPP TUNE FOR 202043 MSSIM Soil
EPA 8270C

Inst : MSBNA08 Run Name : DFTPP 50NG IDF : 1.0
Seqnum : 578115801001 File : sck01 Time : 20-MAR-2008 10:01

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	62466	39.49	
68	< 2% of mass 69	418	0.87	
69		48034		
70	< 2% of mass 69	389	0.81	
127	40% - 60% of mass 198	78917	49.89	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	10807	6.83	
275	10% - 30% of mass 198	38511	24.35	
365	> 1% of mass 198	7256	4.59	
441	Present, < mass 443	18292	76.70	
442	> 40% and < 100% of mass 198	122696	77.57	
443	17% - 23% of mass 442	23850	19.44	

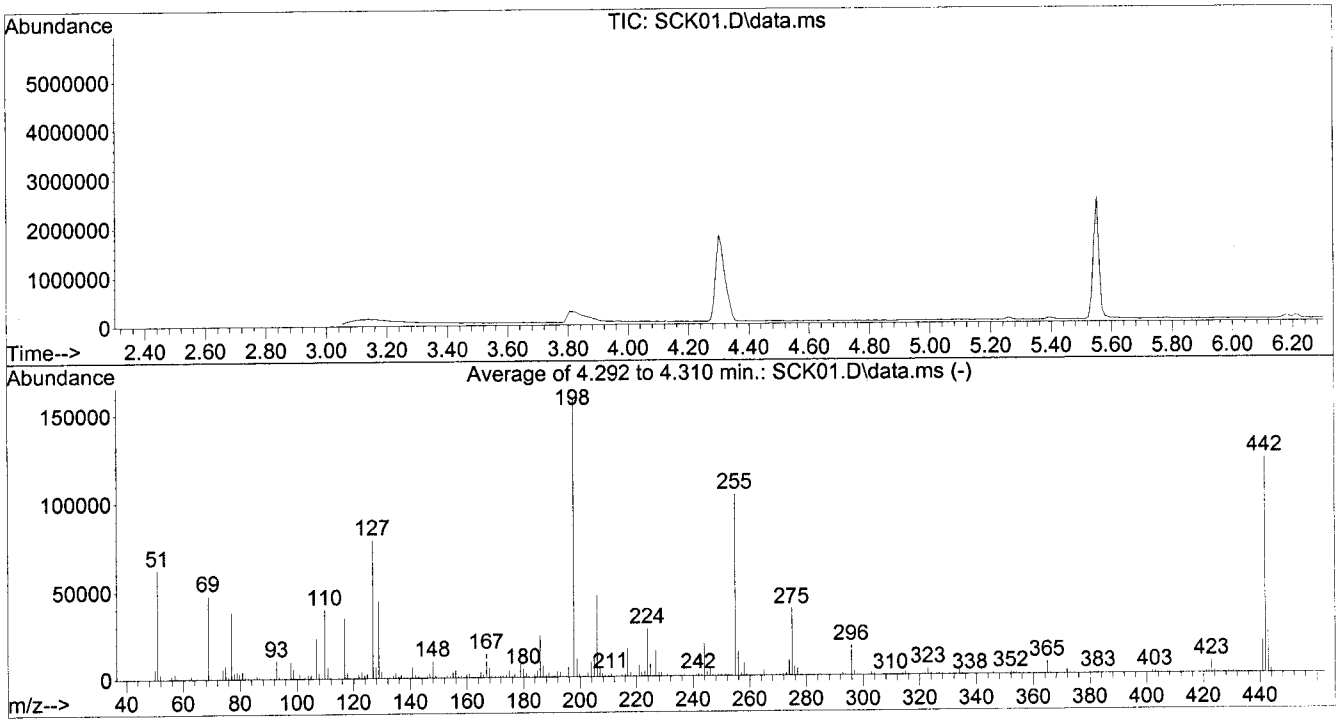
Analyst: JAJ Date: 03/20/08 Reviewer: LLH Date: 03/20/08

578115801001

Data Path : G:\msbna08\032008\
Data File : SCK01.D
Acq On : 20 Mar 2008 10:01 am
Operator :
Sample : TUN,S7771
Misc : DFTPP 50ng
ALS Vial : 1 Sample Multiplier: 1

Integration File: normal.p

Method : G:\msbna08\031908\DFTPP08.M
Title : MSBNA08 BNA DFTPP/PEM
Last Update : Mon Feb 25 12:48:32 2008



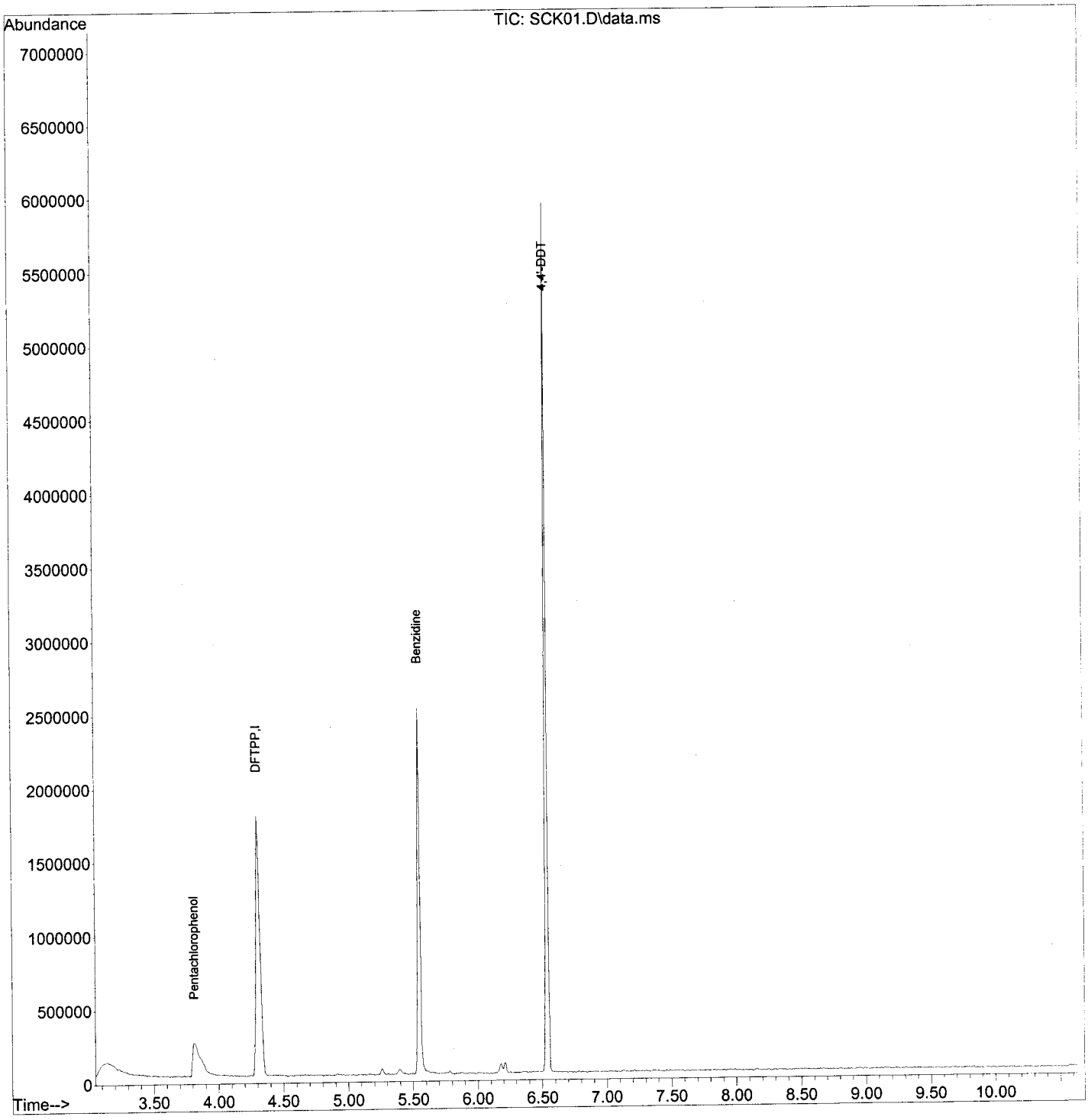
AutoFind: Scans 141, 142, 143; Background Corrected with Scan 137

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.5	62466	PASS
68	69	0.00	2	0.9	418	PASS
69	198	0.00	100	30.4	48034	PASS
70	69	0.00	2	0.8	389	PASS
127	198	40	60	49.9	78917	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	158176	PASS
199	198	5	9	6.8	10807	PASS
275	198	10	30	24.3	38511	PASS
365	198	1	100	4.6	7256	PASS
441	443	0.01	100	76.7	18292	PASS
442	198	40	100	77.6	122696	PASS
443	442	17	23	19.4	23850	PASS

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : SCK01.D
Acq On : 20 Mar 2008 10:01 am
Operator :
Sample : TUN,S7771
Misc : DFTPP 50ng
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 20 10:09:27 2008
Quant Method : C:\msdchem\1\METHODS\DFTPP08.M
Quant Title : MSBNA08 BNA DFTPP/PEM
QLast Update : Mon Feb 25 12:48:32 2008
Response via : Continuing Cal File: G:\msbna08\022508\Sbp01.d



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\032008\
Data File : SCK01.D
Acq On : 20 Mar 2008 10:01 am
Operator :
Sample : TUN,S7771
Misc : DFTPP 50ng
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 20 10:09:27 2008
Quant Method : C:\msdchem\1\METHODS\DFTPP08.M
Quant Title : MSBNA08 BNA DFTPP/PEM
QLast Update : Mon Feb 25 12:48:32 2008
Response via : Continuing Cal File: G:\msbna08\022508\Sbp01.d

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	4.301	198	389351	50.0000	ug/mL	-0.05
4) 4,4'-DDT	6.544	235	1042063	50.0000	ug/mL	-0.06
Target Compounds						Qvalue
1) Pentachlorophenol	3.804	266	122470	103.6476	ug/mL	93
3) Benzidine	5.551	184	1271336	59.5217	ug/mL	99
5) 4,4'-DDE	5.781	246	2657	No CC lev		
6) 4,4'-DDD	6.180	235	30272	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00292

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528107208001
Units : ug/mL

Name : 3PAHSIM
Date : 14-MAR-2008 13:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vce06	528107208006	0.10/0.50UG/ML	14-MAR-2008 13:20	S8142
L2	vce07	528107208007	0.20/1.0UG/ML	14-MAR-2008 13:53	S8085
L3	vce08	528107208008	0.50/2.5UG/ML	14-MAR-2008 14:27	S8087
L4	vce09	528107208009	1.0/5.0UG/ML	14-MAR-2008 15:02	S8088
L5	vce10	528107208010	2.0/10UG/ML	14-MAR-2008 15:37	S8089
L6	vce11	528107208011	5.0/25UG/ML	14-MAR-2008 16:12	S8090
L7	vce12	528107208012	10/50UG/ML	14-MAR-2008 16:45	S8091

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1171	1.1791	1.0537	1.0986	1.1106	1.1405	1.1470	AVRG		0.89209		1.1210	4	15	0.05	0.99	
2-Methylnaphthalene	0.7083	0.7870	0.7133	0.7531	0.7690	0.8059	0.8161	AVRG		1.30776		0.7647	6	15	0.05	0.99	
Acenaphthylene	1.3688	1.5616	1.4570	1.5884	1.6885	1.8058	1.8312	AVRG		0.61940		1.6145	11	15	0.05	0.99	
Acenaphthene	1.0073	1.1224	1.0093	1.0537	1.0755	1.1167	1.1234	AVRG		0.93229		1.0726	5	15	0.05	0.99	
Fluorene	1.1525	1.3253	1.2136	1.2958	1.3331	1.4219	1.4420	AVRG		0.76219		1.3120	8	15	0.05	0.99	
Phenanthrene	1.1253	1.2469	1.1203	1.1802	1.1969	1.2207	1.1747	AVRG		0.84694		1.1807	4	15	0.05	0.99	
Anthracene	0.9330	1.0725	1.0009	1.0992	1.1513	1.2071	1.1683	AVRG		0.91715		1.0903	9	15	0.05	0.99	
Fluoranthene	1.0645	1.2581	1.1517	1.2449	1.2873	1.3372	1.2930	AVRG		0.81050		1.2338	8	15	0.05	0.99	
Pyrene	1.2556	1.4216	1.2904	1.3644	1.3937	1.4250	1.4153	AVRG		0.73176		1.3666	5	15	0.05	0.99	
Benzo(a)anthracene	1.1163	1.2012	1.0766	1.1405	1.1818	1.2278	1.2105	AVRG		0.85840		1.1650	5	15	0.05	0.99	
Chrysene	1.1835	1.3009	1.1637	1.2130	1.2181	1.2298	1.1952	AVRG		0.82312		1.2149	4	15	0.05	0.99	
Benzo(b)fluoranthene	1.2521	1.3847	1.2620	1.3450	1.4279	1.4718	1.4483	AVRG		0.72979		1.3703	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.2273m	1.4212m	1.2867	1.3891	1.4060	1.4576	1.4187	AVRG		0.72866		1.3724	6	15	0.05	0.99	
Benzo(a)pyrene	1.0688	1.1518	1.0626	1.1486	1.2119	1.2850	1.2921	AVRG		0.85150		1.1744	8	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.7992	0.8950	0.8185	0.8915	0.9455	1.0392	1.0828	AVRG		1.08164		0.9245	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6609	0.7420	0.6927	0.7497	0.7994	0.8803	0.9218	AVRG		1.28518		0.7781	12	15	0.05	0.99	
Benzo(g,h,i)perylene	0.7075	0.7792	0.7035	0.7470	0.7778	0.8425	0.8748	AVRG		1.28860		0.7760	8	15	0.05	0.99	
Nitrobenzene-d5	0.2683	0.2690	0.2470	0.2672	0.2892	0.3259	0.3445	AVRG		3.48082		0.2873	12	15	0.05	0.99	
2-Fluorobiphenyl	1.2786	1.3796	1.2325	1.2936	1.3052	1.3484	1.3344	AVRG		0.76317		1.3103	4	15	0.05	0.99	
Terphenyl-d14	0.9095	1.0551	0.9464	0.9935	1.0055	1.0229	0.9899	AVRG		1.01116		0.9890	5	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	0	0.200	5	0.500	-6	1.000	-2	2.000	-1	5.000	2	10.00	2
2-Methylnaphthalene	0.100	-7	0.200	3	0.500	-7	1.000	-2	2.000	1	5.000	5	10.00	7
Acenaphthylene	0.100	-15	0.200	-3	0.500	-10	1.000	-2	2.000	5	5.000	12	10.00	13
Acenaphthene	0.100	-6	0.200	5	0.500	-6	1.000	-2	2.000	0	5.000	4	10.00	5
Fluorene	0.100	-12	0.200	1	0.500	-8	1.000	-1	2.000	2	5.000	8	10.00	10
Phenanthrene	0.100	-5	0.200	6	0.500	-5	1.000	0	2.000	1	5.000	3	10.00	-1
Anthracene	0.100	-14	0.200	-2	0.500	-8	1.000	1	2.000	6	5.000	11	10.00	7
Fluoranthene	0.100	-14	0.200	2	0.500	-7	1.000	1	2.000	4	5.000	8	10.00	5
Pyrene	0.100	-8	0.200	4	0.500	-6	1.000	0	2.000	2	5.000	4	10.00	4
Benzo(a)anthracene	0.100	-4	0.200	3	0.500	-8	1.000	-2	2.000	1	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	7	0.500	-4	1.000	0	2.000	0	5.000	1	10.00	-2
Benzo(b)fluoranthene	0.100	-9	0.200	1	0.500	-8	1.000	-2	2.000	4	5.000	7	10.00	6
Benzo(k)fluoranthene	0.100	-11	0.200	4	0.500	-6	1.000	1	2.000	2	5.000	6	10.00	3
Benzo(a)pyrene	0.100	-9	0.200	-2	0.500	-10	1.000	-2	2.000	3	5.000	9	10.00	10
Indeno(1,2,3-cd)pyrene	0.100	-14	0.200	-3	0.500	-11	1.000	-4	2.000	2	5.000	12	10.00	17
Dibenz(a,h)anthracene	0.100	-15	0.200	-5	0.500	-11	1.000	-4	2.000	3	5.000	13	10.00	18
Benzo(g,h,i)perylene	0.100	-9	0.200	0	0.500	-9	1.000	-4	2.000	0	5.000	9	10.00	13
Nitrobenzene-d5	0.100	-7	0.200	-6	0.500	-14	1.000	-7	2.000	1	5.000	13	10.00	20
2-Fluorobiphenyl	0.100	-2	0.200	5	0.500	-6	1.000	-1	2.000	0	5.000	3	10.00	2
Terphenyl-d14	0.100	-8	0.200	7	0.500	-4	1.000	0	2.000	2	5.000	3	10.00	0

JGM 03/14/08 : Manual integrations for tailing compounds.

Analyst: JGM Date: 03/14/08 Reviewer: LW Date: 03/17/08

#=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

528107208001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528107208001

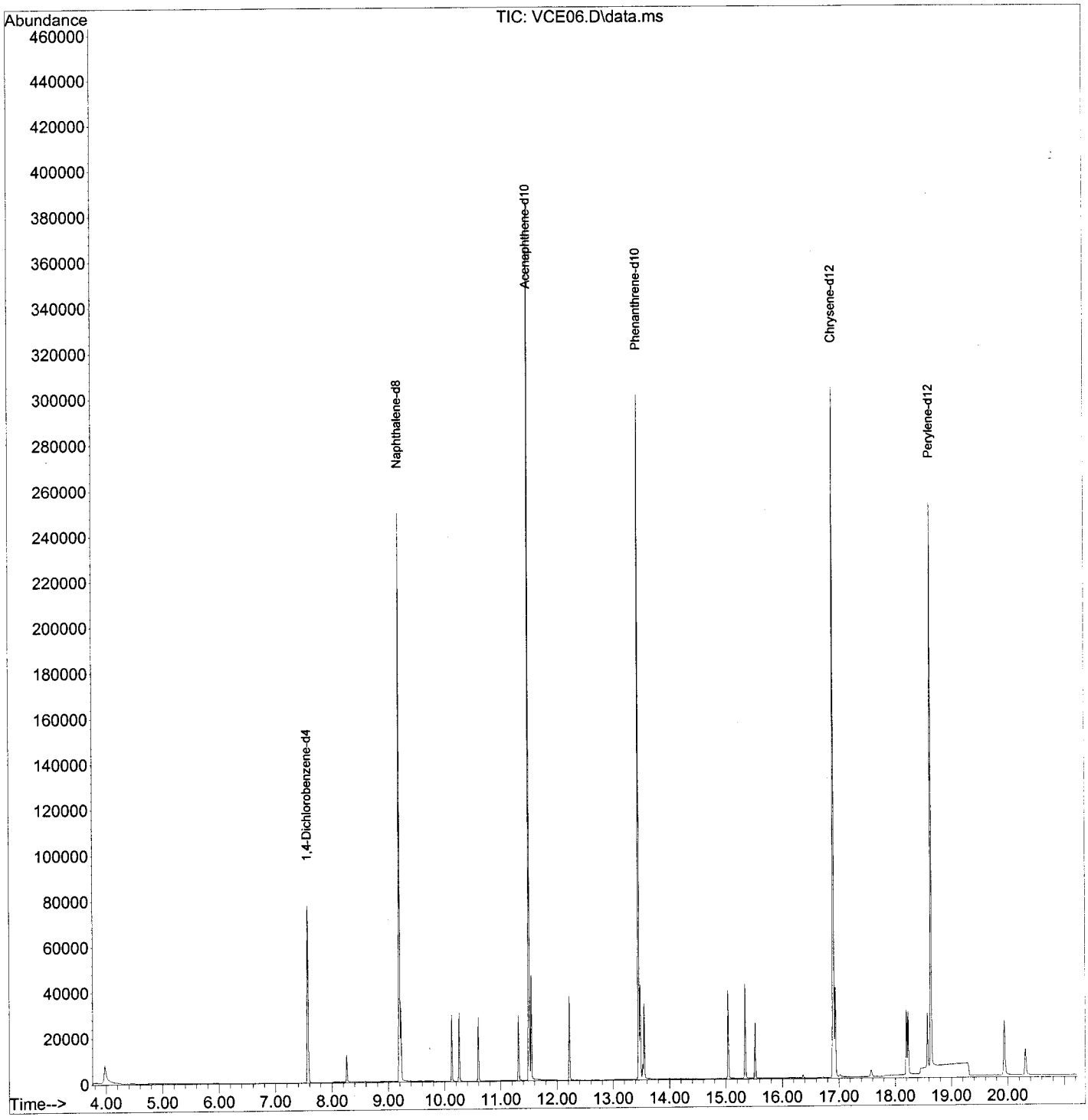
Name : 3PAHSIM
Cal Date : 14-MAR-2008

ICV 528107208013 (vce13 14-MAR-2008) stds: S8092

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1210	1.1565	1.000	1.032	ug/mL	3	20	
2-Methylnaphthalene	0.7647	0.8308	1.000	1.087	ug/mL	9	20	
Acenaphthylene	1.6145	1.6494	1.000	1.022	ug/mL	2	20	
Acenaphthene	1.0726	1.1003	1.000	1.026	ug/mL	3	20	
Fluorene	1.3120	1.3617	1.000	1.038	ug/mL	4	20	
Phenanthrene	1.1807	1.2484	1.000	1.057	ug/mL	6	20	
Anthracene	1.0903	1.0620	1.000	0.9740	ug/mL	-3	20	
Fluoranthene	1.2338	1.3229	1.000	1.072	ug/mL	7	20	
Pyrene	1.3666	1.4027	1.000	1.026	ug/mL	3	20	
Benzo(a)anthracene	1.1650	1.2162	1.000	1.044	ug/mL	4	20	
Chrysene	1.2149	1.2635	1.000	1.040	ug/mL	4	20	
Benzo(b)fluoranthene	1.3703	1.4568	1.000	1.063	ug/mL	6	20	
Benzo(k)fluoranthene	1.3724	1.3790	1.000	1.005	ug/mL	0	20	
Benzo(a)pyrene	1.1744	1.1799	1.000	1.005	ug/mL	0	20	
Indeno(1,2,3-cd)pyrene	0.9245	0.9944	1.000	1.076	ug/mL	8	20	
Dibenz(a,h)anthracene	0.7781	0.8102	1.000	1.041	ug/mL	4	20	
Benzo(g,h,i)perylene	0.7760	0.8024	1.000	1.034	ug/mL	3	20	

Data Path : G:\msbna03\031408\
Data File : VCE06.D
Acq On : 14 Mar 2008 1:20 pm
Operator :
Sample : ICAL,S8142
Misc : 0.10/0.50ug/mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 14 20:50:51 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration



00296

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE06.D
Acq On : 14 Mar 2008 1:20 pm
Operator :
Sample : ICAL,S8142
Misc : 0.10/0.50ug/mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 14 20:50:51 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.571	152	64475	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.199	136	214116	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.503	164	154503	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.455	188	264898	1.0000	ug/mL	0.00
17) Chrysene-d12	16.906	240	234196	1.0000	ug/mL	0.00
22) Perylene-d12	18.636	264	193053	1.0000	ug/mL	0.00

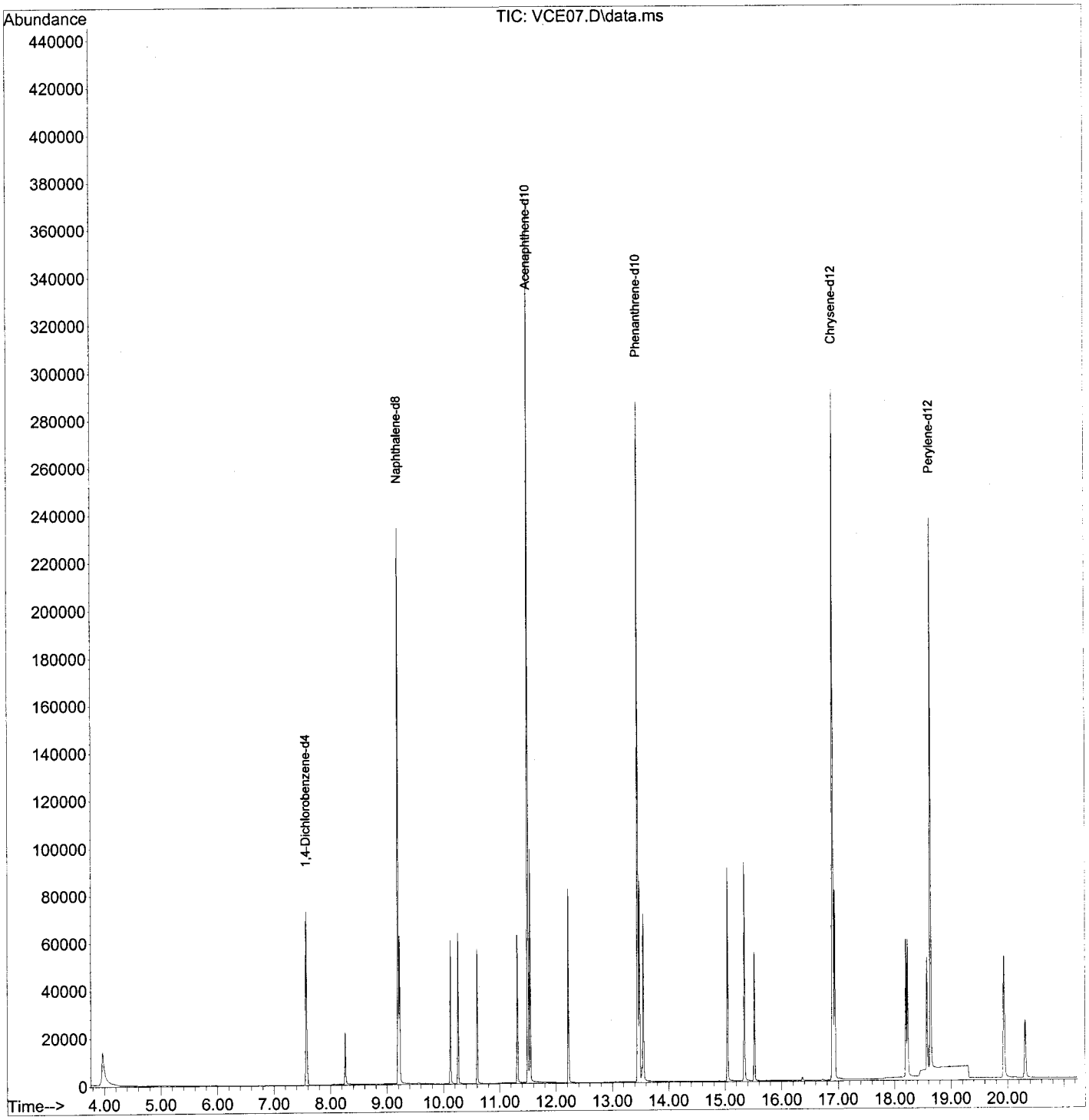
Target Compounds						Qvalue
2) 1,4-Dioxane	3.977	88	14148m	No Calib		
4) Nitrobenzene-d5	8.259	82	5744	No Calib		
5) Naphthalene	9.224	128	23919	No Calib		
6) 2-Methylnaphthalene	10.126	142	15165	No Calib		
7) 1-Methylnaphthalene	10.257	142	15749	No Calib		
9) 2-Fluorobiphenyl	10.598	172	19754	No Calib		
10) Acenaphthylene	11.315	152	21149	No Calib		
11) Acenaphthene	11.545	154	15563	No Calib		
12) Fluorene	12.220	166	17806	No Calib		
14) Phenanthrene	13.485	178	29810	No Calib		
15) Anthracene	13.551	178	24715	No Calib		
16) Fluoranthene	15.041	202	28198	No Calib		
18) Pyrene	15.342	202	29406	No Calib		
19) Terphenyl-d14	15.520	244	21299	No Calib		
20) Benzo(a)anthracene	16.891	228	26144	No Calib		
21) Chrysene	16.939	228	27717	No Calib		
23) Benzo(b)fluoranthene	18.200	252	24173	No Calib		
24) Benzo(k)fluoranthene	18.229	252	23694m	No Calib		
25) Benzo(a)pyrene	18.573	252	20633	No Calib		
26) Indeno(1,2,3-cd)pyrene	19.936	276	15428	No Calib	#	
27) Dibenz(a,h)anthracene	19.939	278	12759	No Calib		
28) Benzo(g,h,i)perylene	20.312	276	13659	No Calib	#	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE07.D
Acq On : 14 Mar 2008 1:53 pm
Operator :
Sample : ICAL,S8085
Misc : 0.20/1.0ug/mL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 14 20:51:32 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE07.D
Acq On : 14 Mar 2008 1:53 pm
Operator :
Sample : ICAL,S8085
Misc : 0.20/1.0ug/mL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 14 20:51:32 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.570	152	60599	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.198	136	200776	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.503	164	147078	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.453	188	250723	1.0000	ug/mL	0.00
17) Chrysene-d12	16.906	240	224064	1.0000	ug/mL	0.00
22) Perylene-d12	18.635	264	179259	1.0000	ug/mL	0.00

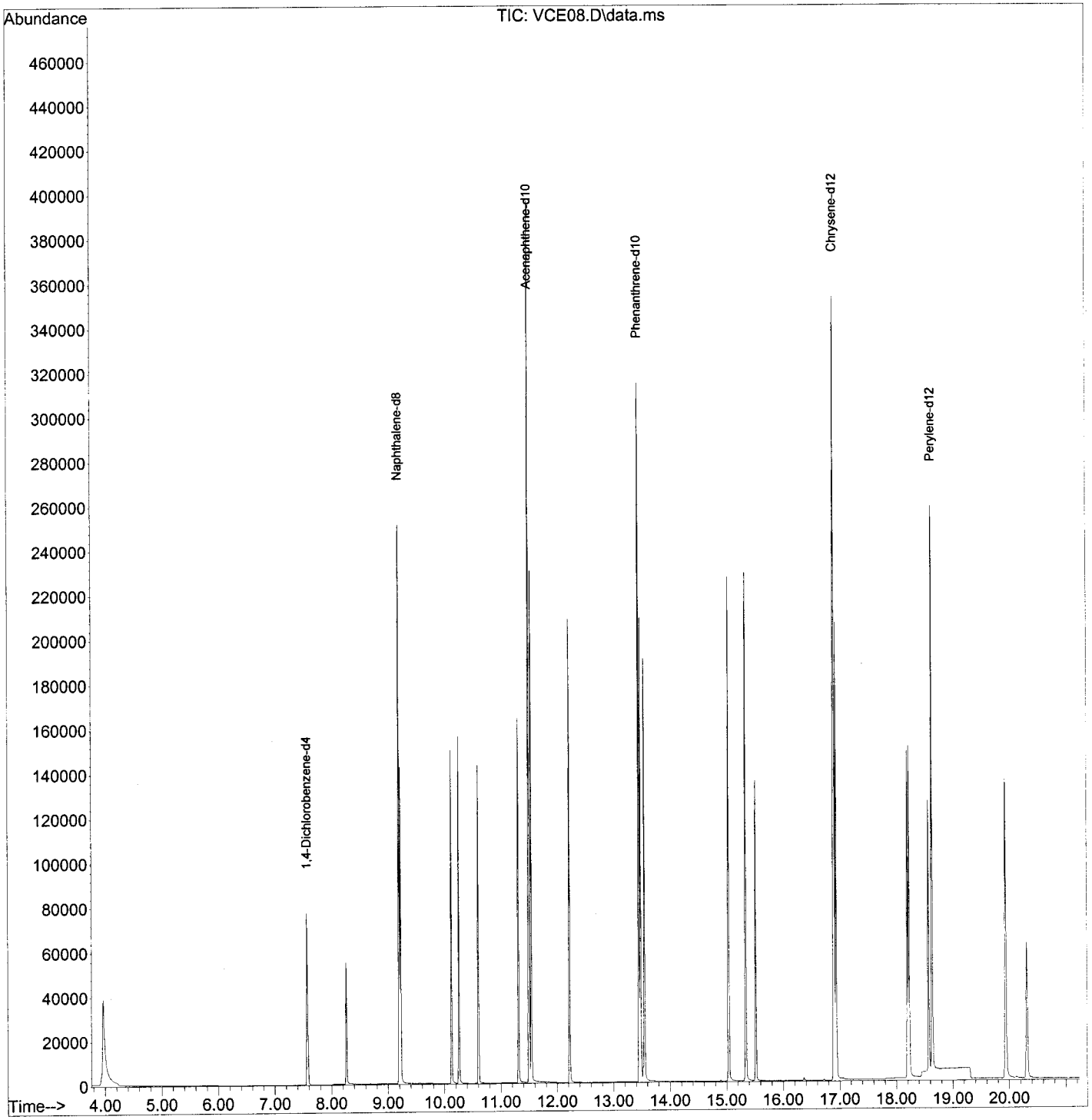
Target Compounds						Qvalue
2) 1,4-Dioxane	3.966	88	26095m	No Calib		
4) Nitrobenzene-d5	8.258	82	10801	No Calib		
5) Naphthalene	9.226	128	47347	No Calib		
6) 2-Methylnaphthalene	10.125	142	31604	No Calib		
7) 1-Methylnaphthalene	10.256	142	32653	No Calib		
9) 2-Fluorobiphenyl	10.597	172	40581	No Calib		
10) Acenaphthylene	11.318	152	45934	No Calib		
11) Acenaphthene	11.545	154	33017	No Calib		
12) Fluorene	12.219	166	38984	No Calib		
14) Phenanthrene	13.483	178	62524	No Calib		
15) Anthracene	13.552	178	53781	No Calib		
16) Fluoranthene	15.040	202	63087	No Calib		
18) Pyrene	15.341	202	63704	No Calib		
19) Terphenyl-d14	15.516	244	47281	No Calib		
20) Benzo(a)anthracene	16.890	228	53831	No Calib		
21) Chrysene	16.936	228	58296	No Calib		
23) Benzo(b)fluoranthene	18.196	252	49643	No Calib		
24) Benzo(k)fluoranthene	18.229	252	50954m	No Calib		
25) Benzo(a)pyrene	18.572	252	41294	No Calib		
26) Indeno(1,2,3-cd)pyrene	19.933	276	32088	No Calib	#	
27) Dibenz(a,h)anthracene	19.937	278	26601	No Calib		
28) Benzo(g,h,i)perylene	20.313	276	27934	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE08.D
Acq On : 14 Mar 2008 2:27 pm
Operator :
Sample : ICAL,S8087
Misc : 0.50/2.5ug/mL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 14 20:51:46 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE08.D
Acq On : 14 Mar 2008 2:27 pm
Operator :
Sample : ICAL,S8087
Misc : 0.50/2.5ug/mL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 14 20:51:46 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.571	152	65819	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.199	136	217936	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.503	164	161186	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.453	188	274868	1.0000	ug/mL	0.00
17) Chrysene-d12	16.903	240	250350	1.0000	ug/mL	0.00
22) Perylene-d12	18.633	264	196131	1.0000	ug/mL	0.00

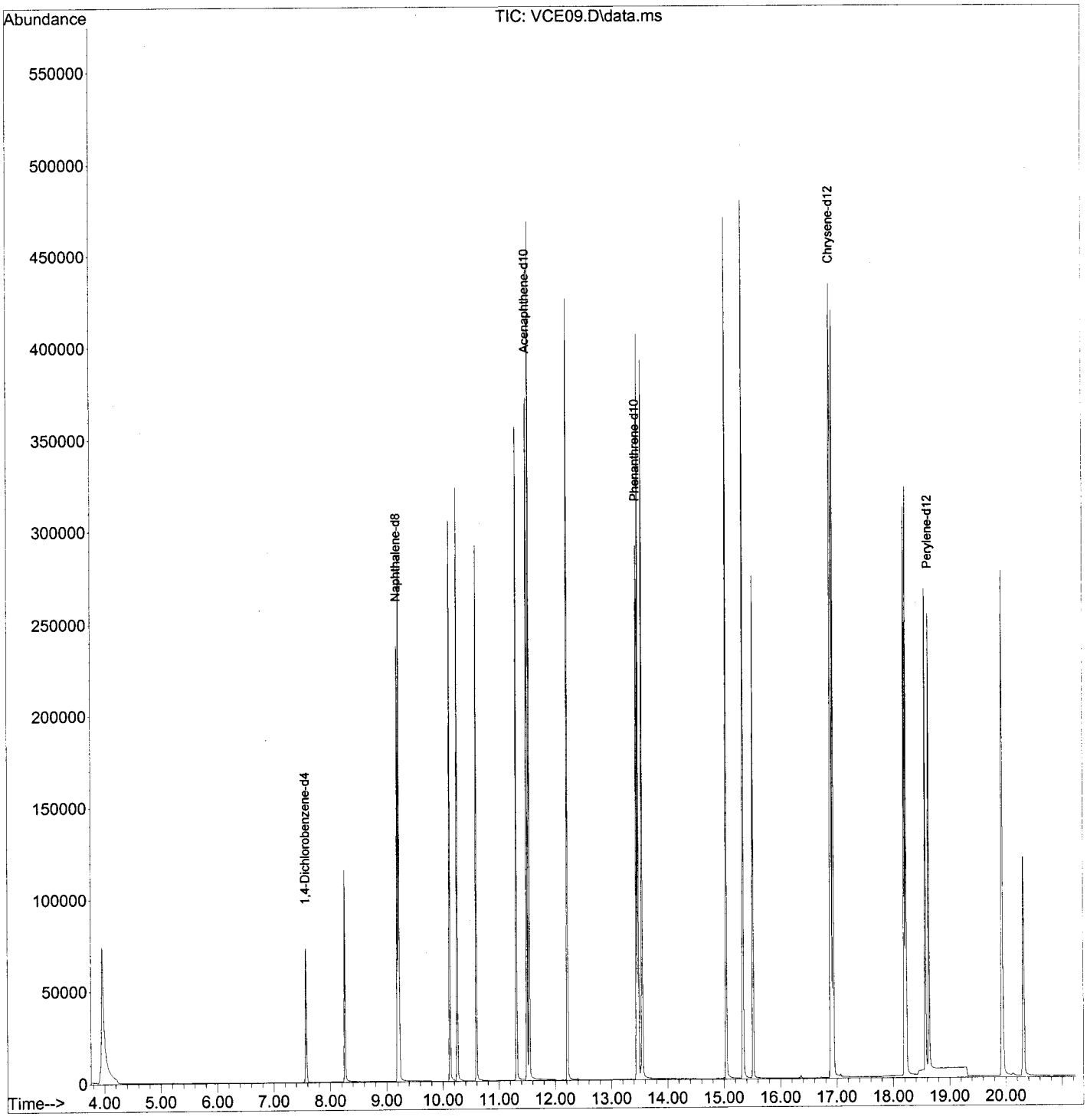
Target Compounds						Qvalue
2) 1,4-Dioxane	3.966	88	67909m	No Calib		
4) Nitrobenzene-d5	8.259	82	26912	No Calib		
5) Naphthalene	9.223	128	114823	No Calib		
6) 2-Methylnaphthalene	10.125	142	77732	No Calib		
7) 1-Methylnaphthalene	10.256	142	80625	No Calib		
9) 2-Fluorobiphenyl	10.598	172	99328	No Calib		
10) Acenaphthylene	11.315	152	117423	No Calib		
11) Acenaphthene	11.545	154	81343	No Calib		
12) Fluorene	12.218	166	97806	No Calib		
14) Phenanthrene	13.484	178	153971	No Calib		
15) Anthracene	13.550	178	137558	No Calib		
16) Fluoranthene	15.040	202	158276	No Calib		
18) Pyrene	15.341	202	161526	No Calib		
19) Terphenyl-d14	15.516	244	118470	No Calib		
20) Benzo(a)anthracene	16.891	228	134762	No Calib		
21) Chrysene	16.936	228	145663	No Calib		
23) Benzo(b)fluoranthene	18.199	252	123762	No Calib		
24) Benzo(k)fluoranthene	18.229	252	126183	No Calib		
25) Benzo(a)pyrene	18.570	252	104208	No Calib		
26) Indeno(1,2,3-cd)pyrene	19.936	276	80264	No Calib	#	
27) Dibenz(a,h)anthracene	19.936	278	67928	No Calib		
28) Benzo(g,h,i)perylene	20.312	276	68986	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE09.D
Acq On : 14 Mar 2008 3:02 pm
Operator :
Sample : ICAL,S8088
Misc : 1.0/5.0ug/mL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 14 20:48:10 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE09.D
Acq On : 14 Mar 2008 3:02 pm
Operator :
Sample : ICAL,S8088
Misc : 1.0/5.0ug/mL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 14 20:48:10 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration

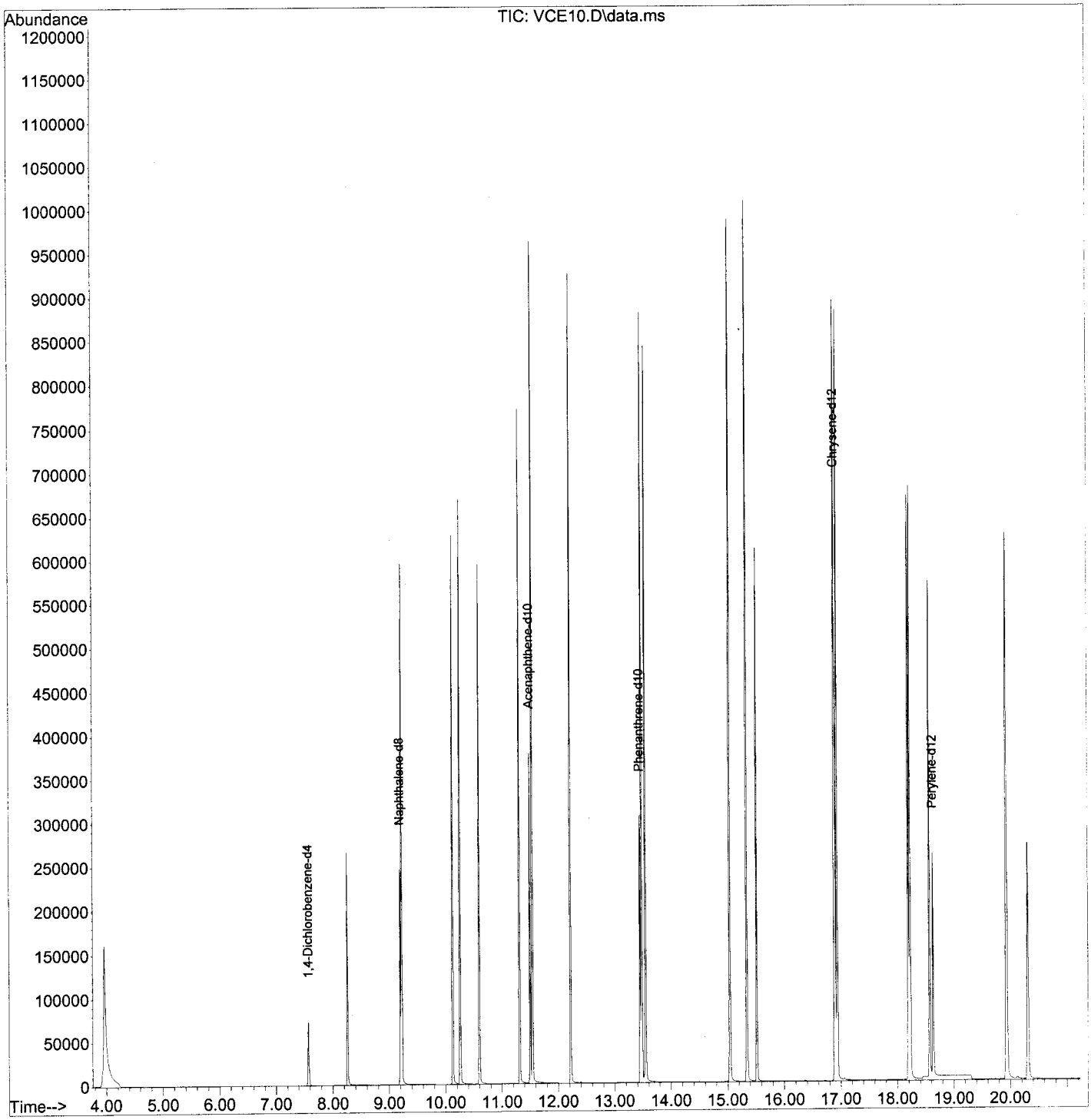
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.571	152	62698	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.198	136	206559	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.503	164	153811	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.454	188	260779	1.0000	ug/mL	0.00
17) Chrysene-d12	16.902	240	242260	1.0000	ug/mL	0.00
22) Perylene-d12	18.632	264	188367	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.965	88	136232	No Calib	#	
4) Nitrobenzene-d5	8.258	82	55193	No Calib		
5) Naphthalene	9.223	128	226935	No Calib		
6) 2-Methylnaphthalene	10.125	142	155560	No Calib		
7) 1-Methylnaphthalene	10.256	142	161296	No Calib		
9) 2-Fluorobiphenyl	10.597	172	198977	No Calib		
10) Acenaphthylene	11.315	152	244309	No Calib		
11) Acenaphthene	11.545	154	162073	No Calib		
12) Fluorene	12.219	166	199308	No Calib		
14) Phenanthrene	13.484	178	307768	No Calib		
15) Anthracene	13.550	178	286650	No Calib		
16) Fluoranthene	15.040	202	324635	No Calib		
18) Pyrene	15.341	202	330545	No Calib		
19) Terphenyl-d14	15.516	244	240682	No Calib		
20) Benzo(a)anthracene	16.890	228	276297	No Calib		
21) Chrysene	16.936	228	293858	No Calib		
23) Benzo(b)fluoranthene	18.199	252	253358	No Calib		
24) Benzo(k)fluoranthene	18.229	252	261655	No Calib		
25) Benzo(a)pyrene	18.569	252	216360	No Calib		
26) Indeno(1,2,3-cd)pyrene	19.933	276	167938	No Calib	#	
27) Dibenz(a,h)anthracene	19.937	278	141224	No Calib		
28) Benzo(g,h,i)perylene	20.310	276	140704	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE10.D
Acq On : 14 Mar 2008 3:37 pm
Operator :
Sample : ICAL,S8089
Misc : 2.0/10ug/mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 14 20:48:20 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE10.D
Acq On : 14 Mar 2008 3:37 pm
Operator :
Sample : ICAL,S8089
Misc : 2.0/10ug/mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 14 20:48:20 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration

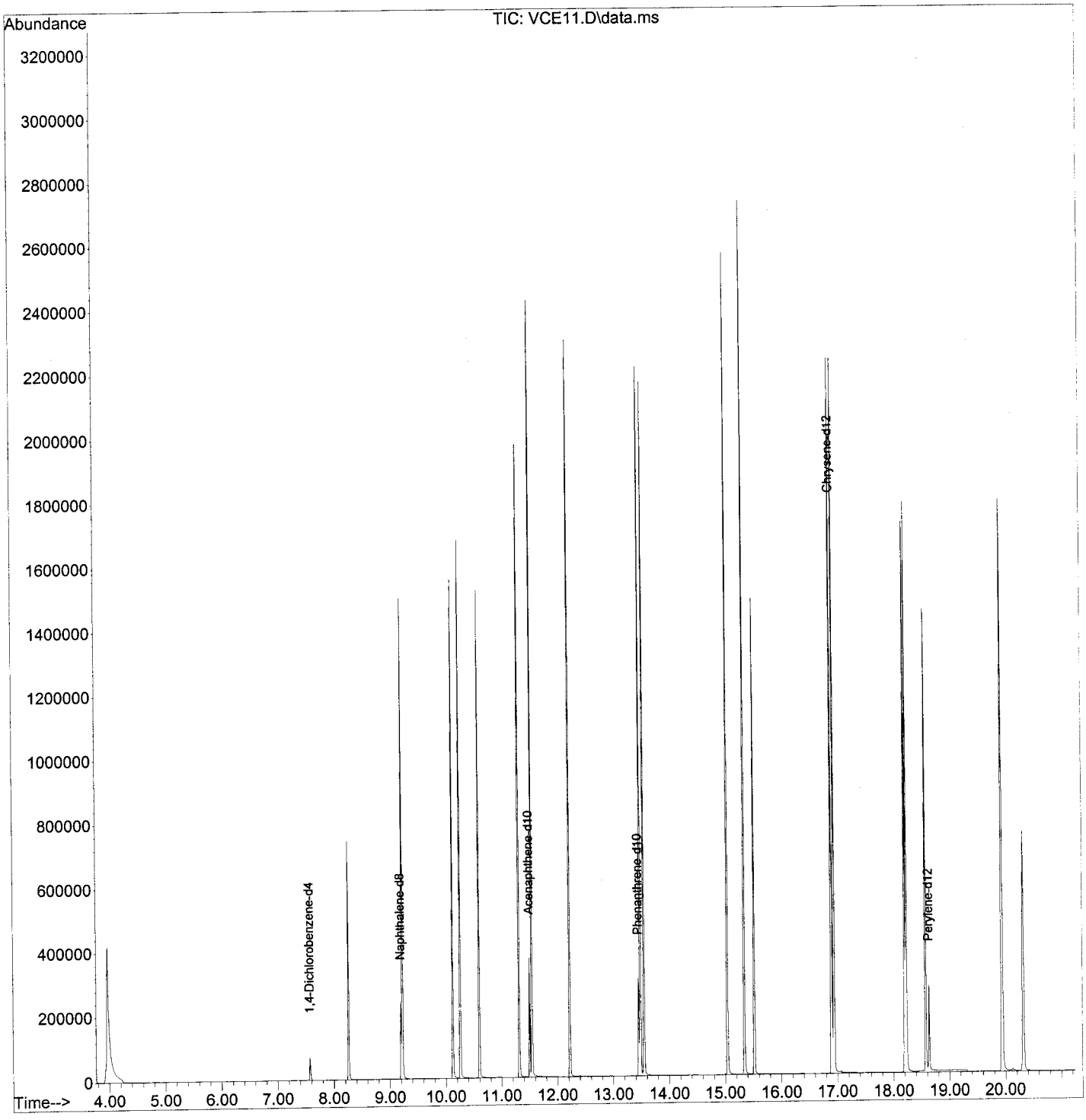
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.571	152	64131	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.198	136	210510	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.503	164	158034	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.453	188	269552	1.0000	ug/mL	0.00
17) Chrysene-d12	16.905	240	253850	1.0000	ug/mL	0.00
22) Perylene-d12	18.632	264	196034	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.964	88	281156	No Calib	#	
4) Nitrobenzene-d5	8.258	82	121757	No Calib		
5) Naphthalene	9.223	128	467595	No Calib		
6) 2-Methylnaphthalene	10.125	142	323756	No Calib		
7) 1-Methylnaphthalene	10.256	142	336790	No Calib		
9) 2-Fluorobiphenyl	10.597	172	412517	No Calib		
10) Acenaphthylene	11.314	152	533682	No Calib		
11) Acenaphthene	11.541	154	339937	No Calib		
12) Fluorene	12.218	166	421337	No Calib		
14) Phenanthrene	13.483	178	645256	No Calib		
15) Anthracene	13.549	178	620695	No Calib		
16) Fluoranthene	15.040	202	694014	No Calib		
18) Pyrene	15.341	202	707577	No Calib		
19) Terphenyl-d14	15.516	244	510490	No Calib		
20) Benzo(a)anthracene	16.890	228	600000	No Calib		
21) Chrysene	16.935	228	618421	No Calib		
23) Benzo(b)fluoranthene	18.197	252	559846	No Calib		
24) Benzo(k)fluoranthene	18.227	252	551248	No Calib		
25) Benzo(a)pyrene	18.569	252	475164	No Calib		
26) Indeno(1,2,3-cd)pyrene	19.933	276	370690	No Calib	#	
27) Dibenz(a,h)anthracene	19.936	278	313404	No Calib		
28) Benzo(g,h,i)perylene	20.313	276	304962	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE11.D
Acq On : 14 Mar 2008 4:12 pm
Operator :
Sample : ICAL,S8090
Misc : 5.0/25ug/mL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 14 20:48:30 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE11.D
Acq On : 14 Mar 2008 4:12 pm
Operator :
Sample : ICAL,S8090
Misc : 5.0/25ug/mL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 14 20:48:30 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration

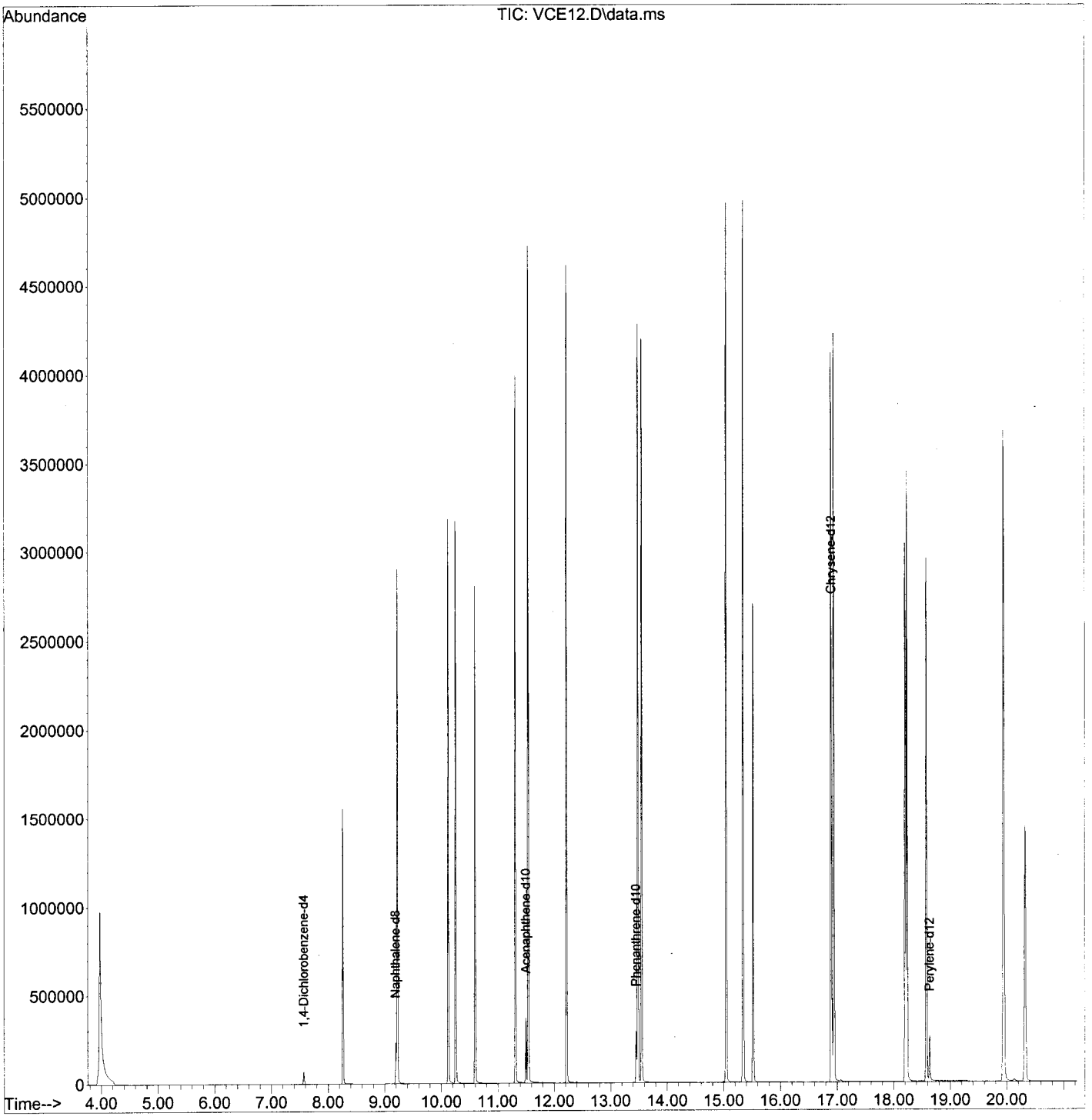
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.572	152	61502	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.196	136	203848	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.503	164	154116	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.452	188	267301	1.0000	ug/mL	0.00
17) Chrysene-d12	16.906	240	254569	1.0000	ug/mL	0.00
22) Perylene-d12	18.633	264	196440	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.967	88	705451	No Calib	#	
4) Nitrobenzene-d5	8.259	82	332173	No Calib		
5) Naphthalene	9.224	128	1162434	No Calib		
6) 2-Methylnaphthalene	10.126	142	821403	No Calib		
7) 1-Methylnaphthalene	10.257	142	852411	No Calib		
9) 2-Fluorobiphenyl	10.598	172	1039078	No Calib		
10) Acenaphthylene	11.314	152	1391528	No Calib		
11) Acenaphthene	11.545	154	860514	No Calib		
12) Fluorene	12.221	166	1095653	No Calib		
14) Phenanthrene	13.485	178	1631433	No Calib		
15) Anthracene	13.551	178	1613248	No Calib		
16) Fluoranthene	15.042	202	1787142	No Calib		
18) Pyrene	15.342	202	1813785	No Calib		
19) Terphenyl-d14	15.517	244	1301975	No Calib		
20) Benzo(a)anthracene	16.891	228	1562783	No Calib		
21) Chrysene	16.939	228	1565398	No Calib		
23) Benzo(b)fluoranthene	18.200	252	1445592	No Calib		
24) Benzo(k)fluoranthene	18.233	252	1431628	No Calib		
25) Benzo(a)pyrene	18.573	252	1262117	No Calib		
26) Indeno(1,2,3-cd)pyrene	19.941	276	1020679	No Calib	#	
27) Dibenz(a,h)anthracene	19.941	278	864660	No Calib		
28) Benzo(g,h,i)perylene	20.321	276	827527	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE12.D
Acq On : 14 Mar 2008 4:45 pm
Operator :
Sample : ICAL,S8091
Misc : 10/50ug/mL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 14 20:48:40 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration



00308

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE12.D
Acq On : 14 Mar 2008 4:45 pm
Operator :
Sample : ICAL,S8091
Misc : 10/50ug/mL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 14 20:48:40 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 20:46:44 2008
Response via : Initial Calibration

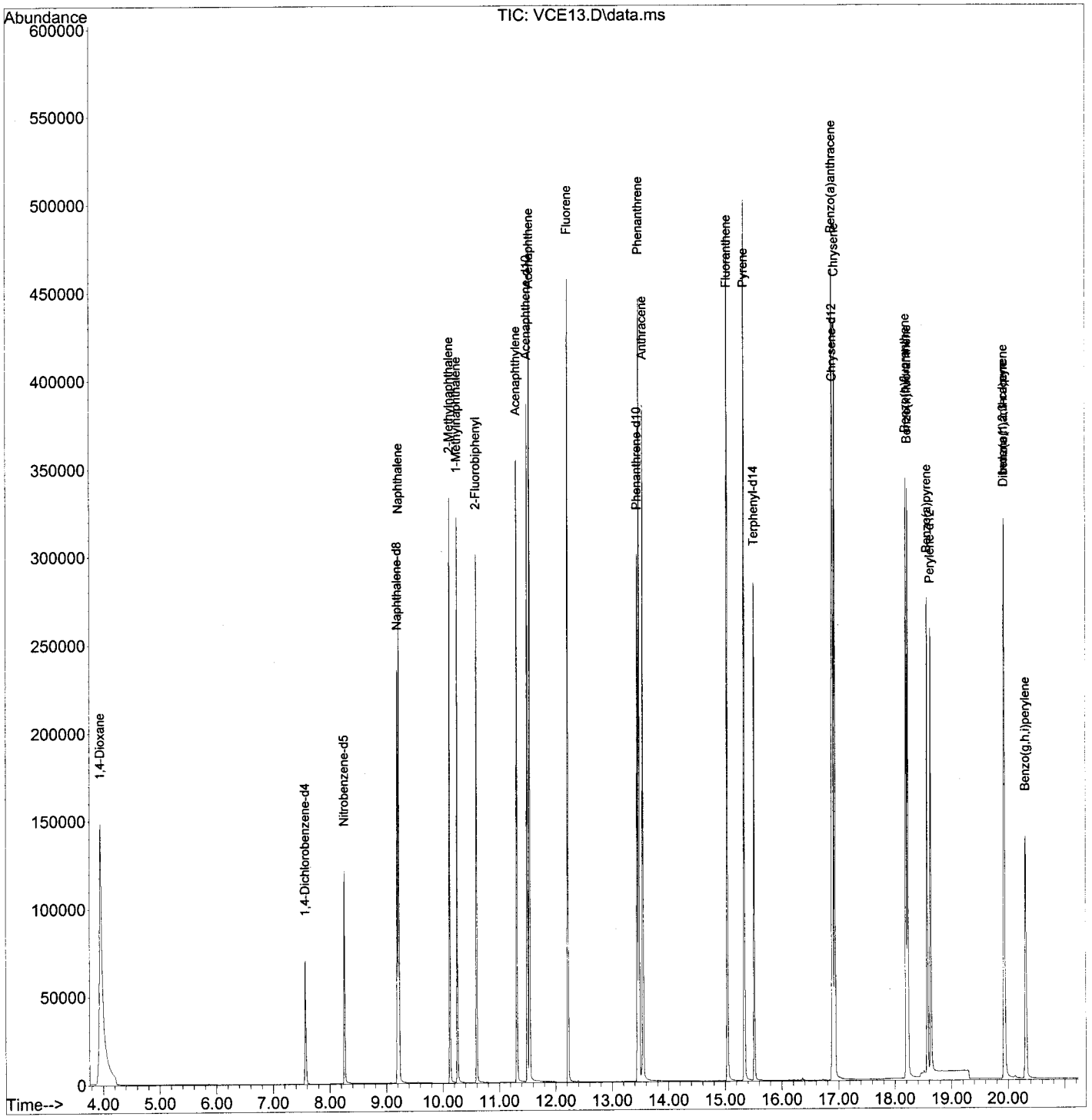
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.572	152	59797	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.196	136	199028	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.503	164	151489	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.452	188	271048	1.0000	ug/mL	0.00
17) Chrysene-d12	16.910	240	249566	1.0000	ug/mL	0.00
22) Perylene-d12	18.634	264	192400	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.979	88	1387928	No Calib	#	
4) Nitrobenzene-d5	8.260	82	685660	No Calib		
5) Naphthalene	9.224	128	2282873	No Calib		
6) 2-Methylnaphthalene	10.126	142	1624168	No Calib		
7) 1-Methylnaphthalene	10.261	142	1686558	No Calib		
9) 2-Fluorobiphenyl	10.598	172	2021502	No Calib		
10) Acenaphthylene	11.318	152	2774040	No Calib		
11) Acenaphthene	11.545	154	1701805	No Calib		
12) Fluorene	12.221	166	2184448	No Calib		
14) Phenanthrene	13.486	178	3184121	No Calib		
15) Anthracene	13.552	178	3166585	No Calib		
16) Fluoranthene	15.045	202	3504759	No Calib		
18) Pyrene	15.346	202	3531999	No Calib		
19) Terphenyl-d14	15.521	244	2470402	No Calib		
20) Benzo(a)anthracene	16.894	228	3020899	No Calib		
21) Chrysene	16.943	228	2982907	No Calib		
23) Benzo(b)fluoranthene	18.203	252	2786450	No Calib		
24) Benzo(k)fluoranthene	18.236	252	2729554	No Calib		
25) Benzo(a)pyrene	18.577	252	2485935	No Calib		
26) Indeno(1,2,3-cd)pyrene	19.946	276	2083358	No Calib	#	
27) Dibenz(a,h)anthracene	19.946	278	1773451	No Calib		
28) Benzo(g,h,i)perylene	20.326	276	1683108	No Calib	#	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE13.D
Acq On : 14 Mar 2008 5:20 pm
Operator :
Sample : ICV,S8092
Misc : 1.0/10ug/mL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 14 21:24:25 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 21:24:07 2008
Response via : Initial Calibration



: 00319

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\031408\
Data File : VCE13.D
Acq On : 14 Mar 2008 5:20 pm
Operator :
Sample : ICV,S8092
Misc : 1.0/10ug/mL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 14 21:24:25 2008
Quant Method : G:\msbna03\031408\3PAHSIM.m
Quant Title : MSBNA03 BNASIM
QLast Update : Fri Mar 14 21:24:07 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.571	152	62160	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.199	136	205785	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.503	164	154116	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.454	188	265387	1.0000	ug/mL	0.00
17) Chrysene-d12	16.906	240	249695	1.0000	ug/mL	0.00
22) Perylene-d12	18.633	264	195508	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.953	88	297845	10.8964	ug/mL	# 75
4) Nitrobenzene-d5	8.259	82	58734	0.9935	ug/mL	81
5) Naphthalene	9.224	128	237982	1.0317	ug/mL	100
6) 2-Methylnaphthalene	10.125	142	170974	1.0865	ug/mL	92
7) 1-Methylnaphthalene	10.256	142	163207	0.9997	ug/mL	99
9) 2-Fluorobiphenyl	10.597	172	212891	1.0542	ug/mL	94
10) Acenaphthylene	11.318	152	254195	1.0216	ug/mL	99
11) Acenaphthene	11.545	154	169580	1.0258	ug/mL	93
12) Fluorene	12.219	166	209864	1.0379	ug/mL	99
14) Phenanthrene	13.484	178	331306	1.0573	ug/mL	99
15) Anthracene	13.550	178	281832	0.9740	ug/mL	98
16) Fluoranthene	15.041	202	351080	1.0722	ug/mL	98
18) Pyrene	15.341	202	350242	1.0264	ug/mL	99
19) Terphenyl-d14	15.520	244	252702	1.0233	ug/mL	87
20) Benzo(a)anthracene	16.891	228	303668	1.0439	ug/mL	97
21) Chrysene	16.939	228	315483	1.0400	ug/mL	94
23) Benzo(b)fluoranthene	18.199	252	284809	1.0631	ug/mL	97
24) Benzo(k)fluoranthene	18.229	252	269614	1.0049	ug/mL	98
25) Benzo(a)pyrene	18.573	252	230684	1.0047	ug/mL	97
26) Indeno(1,2,3-cd)pyrene	19.936	276	194421	1.0756	ug/mL	# 48
27) Dibenz(a,h)anthracene	19.939	278	158398	1.0412	ug/mL	90
28) Benzo(g,h,i)perylene	20.312	276	156872	1.0339	ug/mL	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00311

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202043 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA08
Calnum : 578083102001
Units : ug/mL

Name : 8PAHSIM
Date : 26-FEB-2008 17:55

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sbq03	578083102003	0.1/0.5UG/ML	26-FEB-2008 17:55	S8142
L2	sbq04	578083102004	0.2/1.0UG/ML	26-FEB-2008 18:28	S8085
L3	sbq05	578083102005	0.5/2.5UG/ML	26-FEB-2008 19:01	S8087
L4	sbq06	578083102006	1.0/5.0UG/ML	26-FEB-2008 19:34	S8088
L5	sbq07	578083102007	2.0/10UG/ML	26-FEB-2008 20:09	S8089
L6	sbq08	578083102008	5.0/25UG/ML	26-FEB-2008 20:42	S8090
L7	sbq09	578083102009	10/50UG/ML	26-FEB-2008 21:16	S8091

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	0.8929	0.9894	0.9292	1.0768	1.0093	1.1299	1.1030	AVRG	R		0.98167		1.0187	9	15	0.05	0.99	
2-Methylnaphthalene	0.3762m	0.5110m	0.5118m	0.5724m	0.6033m	0.7066		QUAD	A	-0.0153	0.54716	0.032487	0.5469	1.000	15	0.05	0.99	
Acenaphthylene	1.3352	1.8093m	1.4454	1.6374	1.7422	1.8614	1.9822	AVRG	R		0.59257		1.6876	14	15	0.05	0.99	
Acenaphthene	0.8848m	1.1109m	0.8640	0.9682	1.0966	1.0573	1.1409	AVRG	R		0.98278		1.0175	11	15	0.05	0.99	
Fluorene	0.9732m	1.1288m	1.0486	1.1915	1.2788	1.4476		AVRG	R		0.84884		1.1781	14	15	0.05	0.99	
Phenanthrene	0.9766m	1.0950	1.0116	1.0124	1.0695	1.1107	1.3011	AVRG	R		0.92387		1.0824	10	15	0.05	0.99	
Anthracene	0.9760m	1.1655m	0.9929m	1.0243m	1.1707m	1.0877m	1.2968m	AVRG	R		0.90746		1.1020	11	15	0.05	0.99	
Fluoranthene	1.1172m	1.3050m	1.1250m	1.2614	1.3142	1.2822	1.4726	AVRG	R		0.78850		1.2682	10	15	0.05	0.99	
Pyrene	1.3094m	1.3594m	1.2210m	1.2156	1.1813	1.3266	1.3607	AVRG	R		0.78003		1.2820	6	15	0.05	0.99	
Benzo(a)anthracene	1.0121	1.0901	0.9891	1.0242	1.1107	1.1977	1.1986	AVRG	R		0.91834		1.0889	8	15	0.05	0.99	
Chrysene	1.2372m	1.2687m	1.1536m	1.2573m	1.1493m	1.2016m	1.3100	AVRG	R		0.81607		1.2254	5	15	0.05	0.99	
Benzo(b)fluoranthene	0.8179m	0.9987	0.9624	0.9927	1.1574	1.3254		QUAD	A	-0.0361	1.03386	0.059911	1.0424	1.000	15	0.05	0.99	
Benzo(k)fluoranthene	1.1829m	1.2907m	1.1890m	1.2232m	1.3294m	1.3761m	1.4118	AVRG	R		0.77751		1.2862	7	15	0.05	0.99	
Benzo(a)pyrene	0.9854m	1.0719m	1.0150m	1.0234m	1.1131m	1.3100	1.3288	AVRG	R		0.89200		1.1211	13	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.9519m	1.0770	1.0866	1.1456	1.3030	1.6530		QUAD	A	-0.0150	1.06684	0.117890	1.2029	1.000	15	0.05	0.99	
Dibenz(a,h)anthracene	0.7279m	0.8754m	0.8464	0.9297	1.0925	1.3539		QUAD	A	-0.0336	0.91519	0.089217	0.9710	1.000	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9567m	1.0841m	0.9867m	1.0867m	1.1926m	1.3797m		AVRG	R		0.89732		1.1144	14	15	0.05	0.99	
Nitrobenzene-d5			0.1035m	0.1480m	0.1411m	0.1876m	0.1768	LINR	R	0.21678	5.46431		0.1514	0.997	15	0.05	0.99	
2-Fluorobiphenyl		1.1628m	1.0892m	1.2742m	1.2928	1.5008	1.5628	AVRG	R		0.76117		1.3138	14	15	0.05	0.99	
Terphenyl-d14		0.9696m	0.8310	0.9055	0.9485	1.0056	1.1041	AVRG	R		1.04090		0.9607	10	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	-12	0.200	-3	0.500	-9	1.000	6	2.000	-1	5.000	11	10.00	8
2-Methylnaphthalene	0.100	-4	0.200	6	0.500	-4	1.000	1	2.000	0	5.000	0		
Acenaphthylene	0.100	-21	0.200	7	0.500	-14	1.000	-3	2.000	3	5.000	10	10.00	17
Acenaphthene	0.100	-13	0.200	9	0.500	-15	1.000	-5	2.000	8	5.000	4	10.00	12
Fluorene	0.100	-17	0.200	-4	0.500	-11	1.000	1	2.000	9	5.000	23		
Phenanthrene	0.100	-10	0.200	1	0.500	-7	1.000	-6	2.000	-1	5.000	3	10.00	20
Anthracene	0.100	-11	0.200	6	0.500	-10	1.000	-7	2.000	6	5.000	-1	10.00	18
Fluoranthene	0.100	-12	0.200	3	0.500	-11	1.000	-1	2.000	4	5.000	1	10.00	16
Pyrene	0.100	2	0.200	6	0.500	-5	1.000	-5	2.000	-8	5.000	3	10.00	6
Benzo(a)anthracene	0.100	-7	0.200	0	0.500	-9	1.000	-6	2.000	2	5.000	10	10.00	10
Chrysene	0.100	1	0.200	4	0.500	-6	1.000	3	2.000	-6	5.000	-2	10.00	7
Benzo(b)fluoranthene	0.100	13	0.200	13	0.500	-3	1.000	-6	2.000	2	5.000	0		
Benzo(k)fluoranthene	0.100	-8	0.200	0	0.500	-8	1.000	-5	2.000	3	5.000	7	10.00	10
Benzo(a)pyrene	0.100	-12	0.200	-4	0.500	-9	1.000	-9	2.000	-1	5.000	17	10.00	19
Indeno(1,2,3-cd)pyrene	0.100	2	0.200	6	0.500	-1	1.000	-2	2.000	1	5.000	0		
Dibenz(a,h)anthracene	0.100	15	0.200	12	0.500	-5	1.000	-4	2.000	1	5.000	0		
Benzo(g,h,i)perylene	0.100	-14	0.200	-3	0.500	-11	1.000	-2	2.000	7	5.000	24		
Nitrobenzene-d5					0.500	0	1.000	3	2.000	-12	5.000	7	10.00	-1
2-Fluorobiphenyl			0.200	-11	0.500	-17	1.000	-3	2.000	-2	5.000	14	10.00	19
Terphenyl-d14			0.200	1	0.500	-13	1.000	-6	2.000	-1	5.000	5	10.00	15

AD 02/28/08 : Manual integrations for tailing/splitting of peaks.

AD 02/28/08 [Nitrobenzene-d5]: Calibrated to 0.5ug/mL ONLY. Do not run dilutions (x), where 1 < x < 10.

Analyst: AD Date: 02/28/08 Reviewer: LW Date: 02/28/08

m=manual integration

X=A: Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating); X=R: Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

578083102001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202043 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Name : 8PAHSIM
Calnum : 578083102001 Cal Date : 26-FEB-2008

ICV 578083102010 (sbq10 26-FEB-2008) stds: S8092

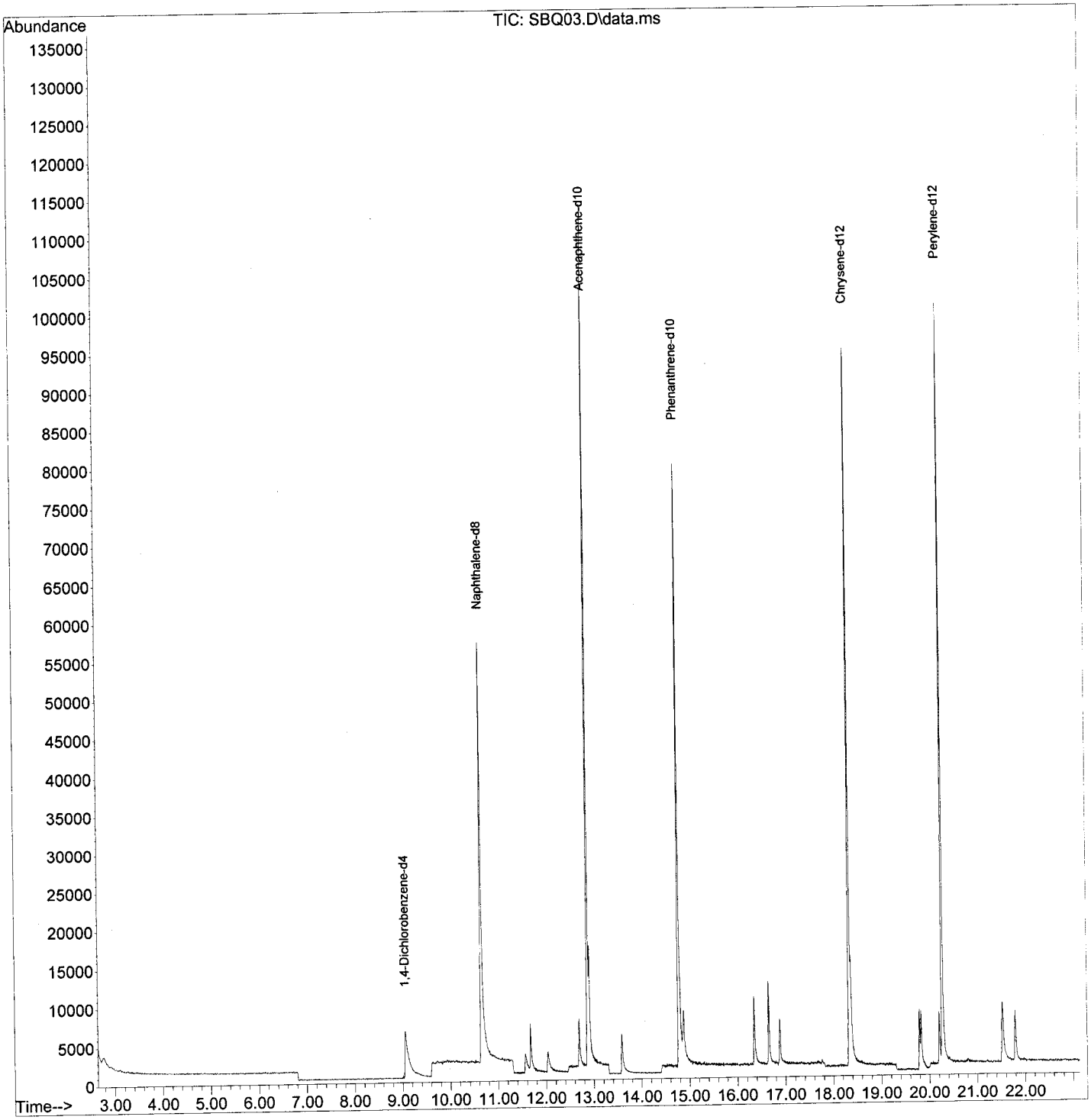
Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.0187	1.0351	1.000	1.016	ug/mL	2	20	
2-Methylnaphthalene	0.5469	0.6631	1.000	1.160	ug/mL	16	20	
Acenaphthylene	1.6876	1.7793	1.000	1.054	ug/mL	5	20	
Acenaphthene	1.0175	1.0906	1.000	1.072	ug/mL	7	20	
Fluorene	1.1781	1.1998	1.000	1.019	ug/mL	2	20	
Phenanthrene	1.0824	1.1052	1.000	1.021	ug/mL	2	20	
Anthracene	1.1020	1.0569	1.000	0.9591	ug/mL	-4	20	m
Fluoranthene	1.2682	1.4116	1.000	1.113	ug/mL	11	20	
Pyrene	1.2820	1.2884	1.000	1.005	ug/mL	1	20	
Benzo(a)anthracene	1.0889	1.1488	1.000	1.055	ug/mL	6	20	
Chrysene	1.2254	1.3176	1.000	1.075	ug/mL	8	20	m
Benzo(b)fluoranthene	1.0424	1.1873	1.000	1.112	ug/mL	11	20	
Benzo(k)fluoranthene	1.2862	1.2577	1.000	0.9779	ug/mL	-2	20	m
Benzo(a)pyrene	1.1211	1.1758	1.000	1.049	ug/mL	5	20	m
Indeno(1,2,3-cd)pyrene	1.2029	1.4327	1.000	1.198	ug/mL	20	20	
Dibenz(a,h)anthracene	0.9710	1.0933	1.000	1.111	ug/mL	11	20	
Benzo(g,h,i)perylene	1.1144	1.2208	1.000	1.095	ug/mL	10	20	m

m=manual integration

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ03.D
Acq On : 26 Feb 2008 5:55 pm
Operator :
Sample : ICAL,S8142
Misc : 0.1/0.5ug/mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 13:56:27 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration



00315

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ03.D
Acq On : 26 Feb 2008 5:55 pm
Operator :
Sample : ICAL,S8142
Misc : 0.1/0.5ug/mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 13:56:27 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration

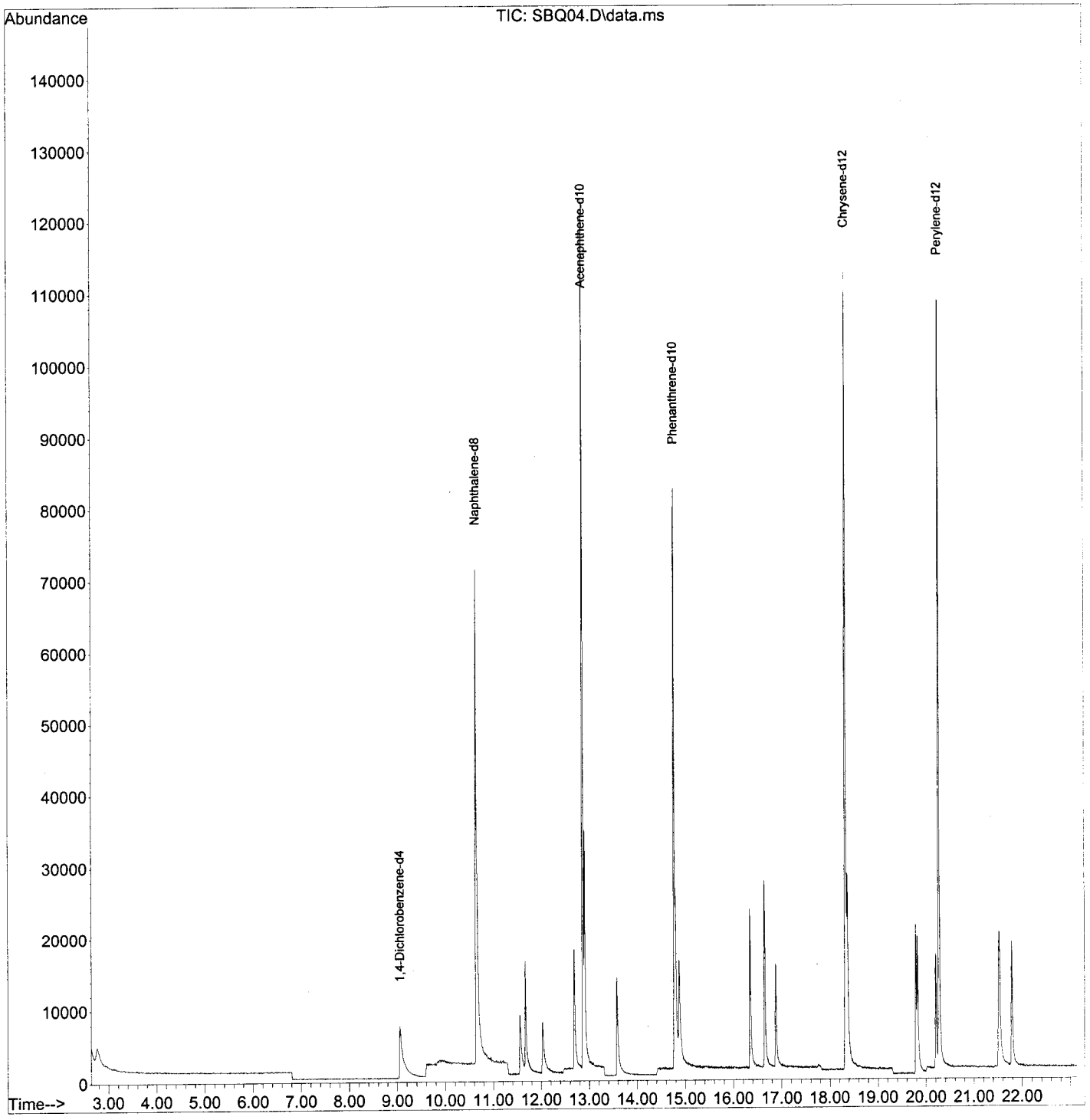
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	9.053	152	21730m	1.0000	ug/mL	-0.03
3) Naphthalene-d8	10.643	136	102633	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.863	164	65032	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.767	188	99490	1.0000	ug/mL	0.00
17) Chrysene-d12	18.331	240	98714	1.0000	ug/mL	0.00
22) Perylene-d12	20.269	264	101785	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000	88	0m	N.D. d		
4) Nitrobenzene-d5	9.622	82	1136	No Calib	#	
5) Naphthalene	10.670	128	9164	No Calib		
6) 2-Methylnaphthalene	11.563	142	3861m	No Calib		
7) 1-Methylnaphthalene	11.674	142	6880m	No Calib		
9) 2-Fluorobiphenyl	12.040	172	6180m	No Calib		
10) Acenaphthylene	12.689	152	8683	No Calib		
11) Acenaphthene	12.909	154	5754m	No Calib		
12) Fluorene	13.581	166	6329m	No Calib		
14) Phenanthrene	14.801	178	9716m	No Calib		
15) Anthracene	14.874	178	9710m	No Calib		
16) Fluoranthene	16.349	202	11115m	No Calib		
18) Pyrene	16.651	202	12926m	No Calib		
19) Terphenyl-d14	16.878	244	8816m	No Calib		
20) Benzo(a)anthracene	18.319	228	9991	No Calib		
21) Chrysene	18.368	228	12213m	No Calib		
23) Benzo(b)fluoranthene	19.792	252	8325m	No Calib		
24) Benzo(k)fluoranthene	19.825	252	12040m	No Calib		
25) Benzo(a)pyrene	20.202	252	10030m	No Calib		
26) Indeno(1,2,3-cd)pyrene	21.517	276	9689m	No Calib		
27) Dibenz(a,h)anthracene	21.532	278	7409m	No Calib		
28) Benzo(g,h,i)perylene	21.791	276	9738m	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ04.D
Acq On : 26 Feb 2008 6:28 pm
Operator :
Sample : ICAL,S8085
Misc : 0.2/1.0ug/mL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 13:56:45 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration



: 00317

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ04.D
Acq On : 26 Feb 2008 6:28 pm
Operator :
Sample : ICAL,S8085
Misc : 0.2/1.0ug/mL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 13:56:45 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	9.056	152	23520m	1.0000	ug/mL	-0.03
3) Naphthalene-d8	10.642	136	111714	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.865	164	67157	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.769	188	101142	1.0000	ug/mL	0.00
17) Chrysene-d12	18.331	240	112703	1.0000	ug/mL	0.00
22) Perylene-d12	20.269	264	109601	1.0000	ug/mL	0.00

Target Compounds					Qvalue
2) 1,4-Dioxane	2.760	88	3763m	No Calib	
4) Nitrobenzene-d5	0.000	82	0m	N.D. d	
5) Naphthalene	10.669	128	22107	No Calib	
6) 2-Methylnaphthalene	11.561	142	11417m	No Calib	
7) 1-Methylnaphthalene	11.669	142	15961m	No Calib	
9) 2-Fluorobiphenyl	12.030	172	15618m	No Calib	
10) Acenaphthylene	12.688	152	24301m	No Calib	
11) Acenaphthene	12.908	154	14921m	No Calib	
12) Fluorene	13.579	166	15161m	No Calib	
14) Phenanthrene	14.803	178	22150	No Calib	
15) Anthracene	14.876	178	23577m	No Calib	
16) Fluoranthene	16.346	202	26398m	No Calib	
18) Pyrene	16.648	202	30641m	No Calib	
19) Terphenyl-d14	16.878	244	21856m	No Calib	
20) Benzo(a)anthracene	18.319	228	24571	No Calib	
21) Chrysene	18.374	228	28598m	No Calib	
23) Benzo(b)fluoranthene	19.789	252	21891	No Calib	
24) Benzo(k)fluoranthene	19.822	252	28292m	No Calib	
25) Benzo(a)pyrene	20.203	252	23497m	No Calib	
26) Indeno(1,2,3-cd)pyrene	21.511	276	23609	No Calib	
27) Dibenz(a,h)anthracene	21.531	278	19188m	No Calib	
28) Benzo(g,h,i)perylene	21.790	276	23764m	No Calib	

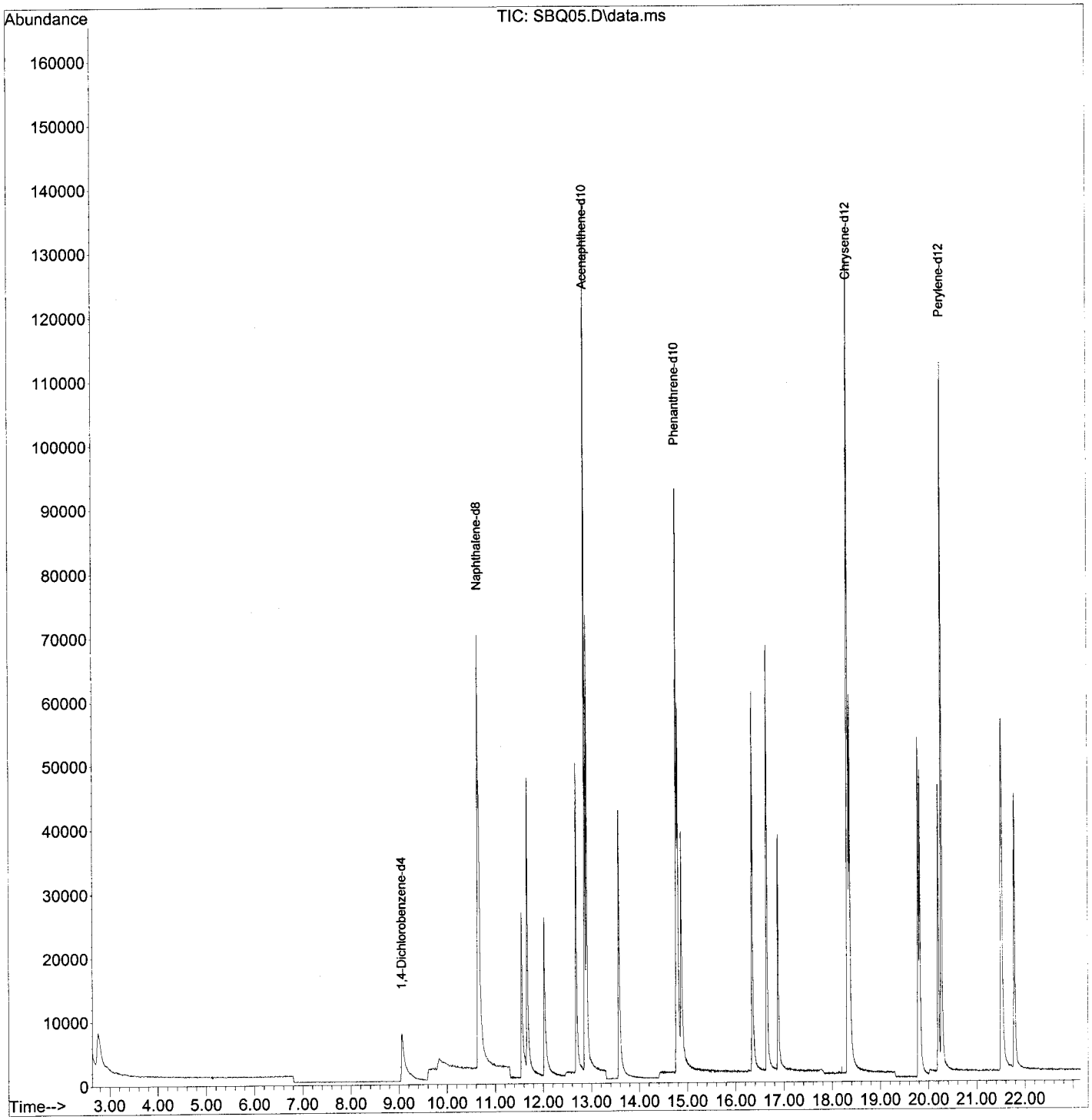
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00318

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ05.D
Acq On : 26 Feb 2008 7:01 pm
Operator :
Sample : ICAL,S8087
Misc : 0.5/2.5ug/mL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 13:57:07 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ05.D
Acq On : 26 Feb 2008 7:01 pm
Operator :
Sample : ICAL,S8087
Misc : 0.5/2.5ug/mL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 13:57:07 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	9.061	152	24861m	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.643	136	111974	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.863	164	73459	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.770	188	113404	1.0000	ug/mL	0.00
17) Chrysene-d12	18.332	240	115089	1.0000	ug/mL	0.00
22) Perylene-d12	20.268	264	111465	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.758	88	13382m	No Calib		
4) Nitrobenzene-d5	9.833	82	5792m	No Calib		
5) Naphthalene	10.670	128	52024	No Calib		
6) 2-Methylnaphthalene	11.550	142	28655m	No Calib		
7) 1-Methylnaphthalene	11.668	142	43131m	No Calib		
9) 2-Fluorobiphenyl	12.022	172	40005m	No Calib		
10) Acenaphthylene	12.686	152	53088	No Calib		
11) Acenaphthene	12.905	154	31735	No Calib		
12) Fluorene	13.574	166	38515	No Calib		
14) Phenanthrene	14.801	178	57362	No Calib		
15) Anthracene	14.868	178	56300m	No Calib		
16) Fluoranthene	16.344	202	63792m	No Calib		
18) Pyrene	16.645	202	70261m	No Calib		
19) Terphenyl-d14	16.876	244	47821	No Calib		
20) Benzo(a)anthracene	18.317	228	56917	No Calib		
21) Chrysene	18.369	228	66384m	No Calib		
23) Benzo(b)fluoranthene	19.784	252	53635	No Calib		
24) Benzo(k)fluoranthene	19.817	252	66265m	No Calib		
25) Benzo(a)pyrene	20.198	252	56567m	No Calib		
26) Indeno(1,2,3-cd)pyrene	21.507	276	60558	No Calib		
27) Dibenz(a,h)anthracene	21.522	278	47170	No Calib		
28) Benzo(g,h,i)perylene	21.785	276	54993m	No Calib		

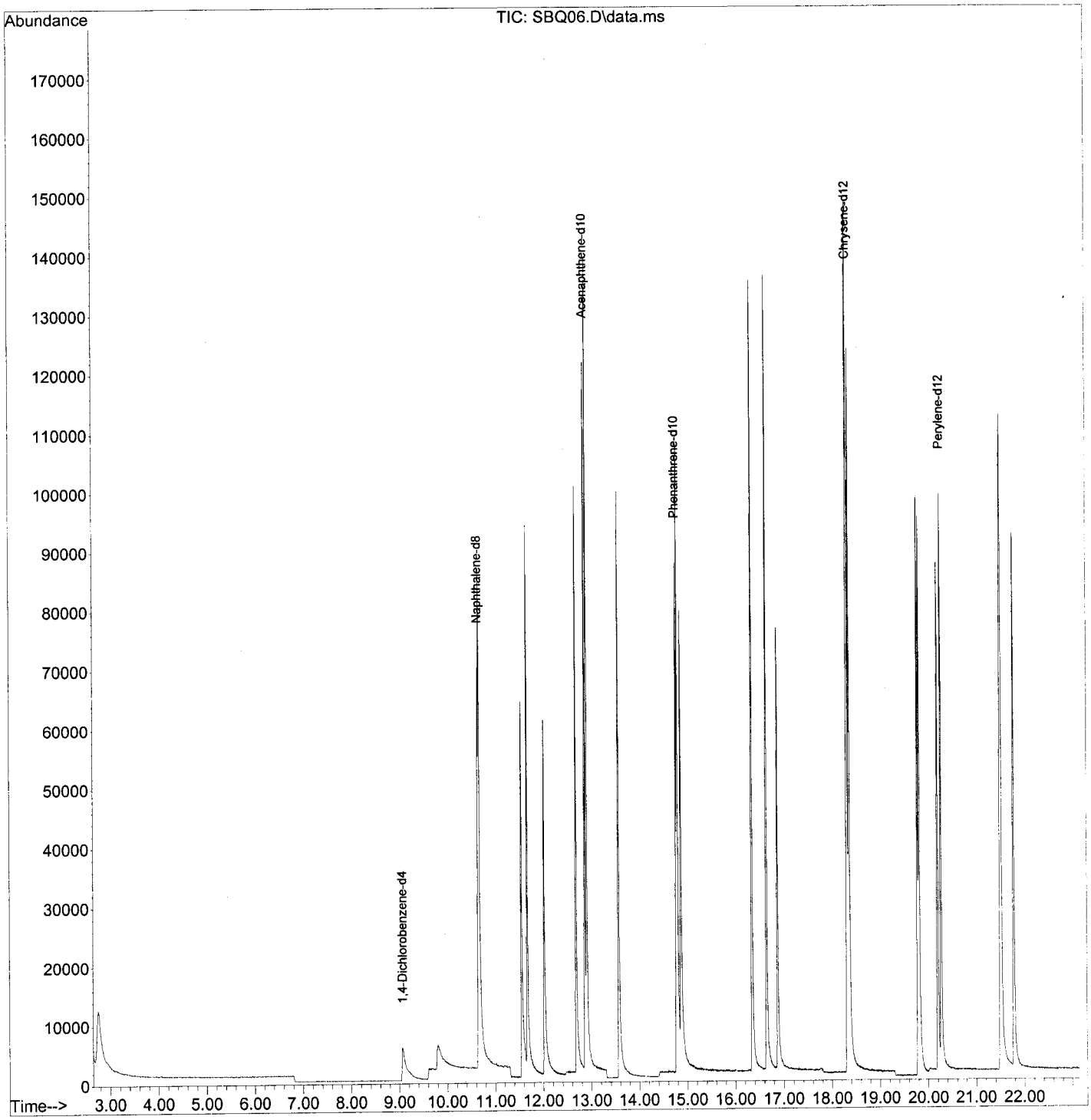
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0329

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ06.D
Acq On : 26 Feb 2008 7:34 pm
Operator :
Sample : ICAL,S8088
Misc : 1.0/5.0ug/mL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 13:57:21 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration



00321

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ06.D
Acq On : 26 Feb 2008 7:34 pm
Operator :
Sample : ICAL,S8088
Misc : 1.0/5.0ug/mL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 13:57:21 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration

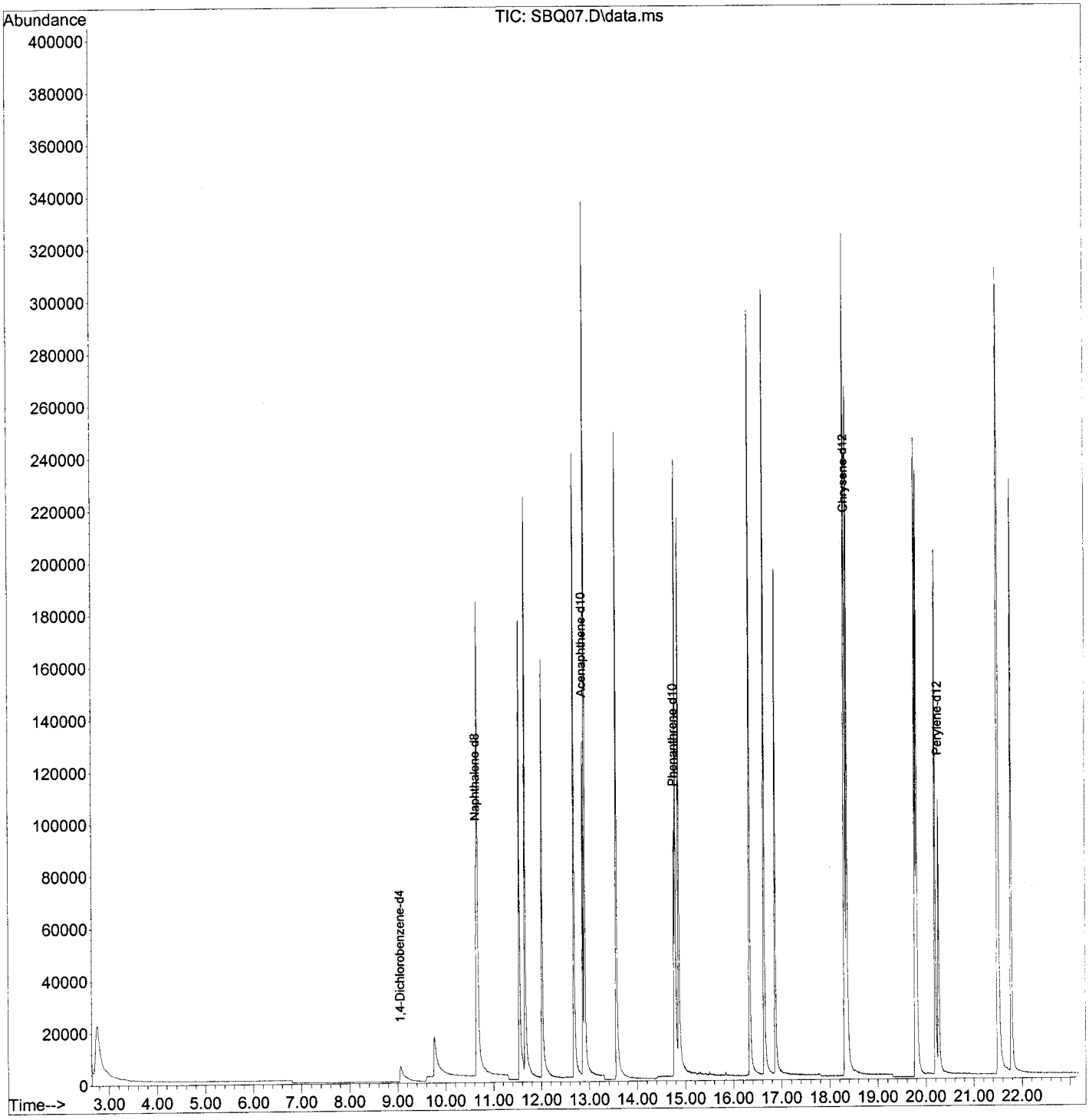
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	9.068	152	22151m	1.0000	ug/mL	-0.01
3) Naphthalene-d8	10.642	136	99286	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.866	164	61687	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.766	188	102782	1.0000	ug/mL	0.00
17) Chrysene-d12	18.329	240	102579	1.0000	ug/mL	0.00
22) Perylene-d12	20.268	264	100312	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.754	88	25202m	No Calib		
4) Nitrobenzene-d5	9.798	82	14698m	No Calib		
5) Naphthalene	10.662	128	106913	No Calib		
6) 2-Methylnaphthalene	11.545	142	56827m	No Calib		
7) 1-Methylnaphthalene	11.665	142	75360m	No Calib		
9) 2-Fluorobiphenyl	12.019	172	78599m	No Calib		
10) Acenaphthylene	12.681	152	101004	No Calib		
11) Acenaphthene	12.904	154	59725	No Calib		
12) Fluorene	13.569	166	73498	No Calib		
14) Phenanthrene	14.797	178	104054	No Calib		
15) Anthracene	14.867	178	105279m	No Calib		
16) Fluoranthene	16.339	202	129651	No Calib		
18) Pyrene	16.641	202	124691	No Calib		
19) Terphenyl-d14	16.871	244	92881	No Calib		
20) Benzo(a)anthracene	18.317	228	105058	No Calib		
21) Chrysene	18.365	228	128970m	No Calib		
23) Benzo(b)fluoranthene	19.782	252	99578	No Calib		
24) Benzo(k)fluoranthene	19.817	252	122701m	No Calib		
25) Benzo(a)pyrene	20.195	252	102655m	No Calib		
26) Indeno(1,2,3-cd)pyrene	21.501	276	114920	No Calib		
27) Dibenz(a,h)anthracene	21.521	278	93262	No Calib		
28) Benzo(g,h,i)perylene	21.780	276	109005m	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ07.D
Acq On : 26 Feb 2008 8:09 pm
Operator :
Sample : ICAL,S8089
Misc : 2.0/10ug/mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 13:57:33 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration



00323

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ07.D
Acq On : 26 Feb 2008 8:09 pm
Operator :
Sample : ICAL,S8089
Misc : 2.0/10ug/mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 13:57:33 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration

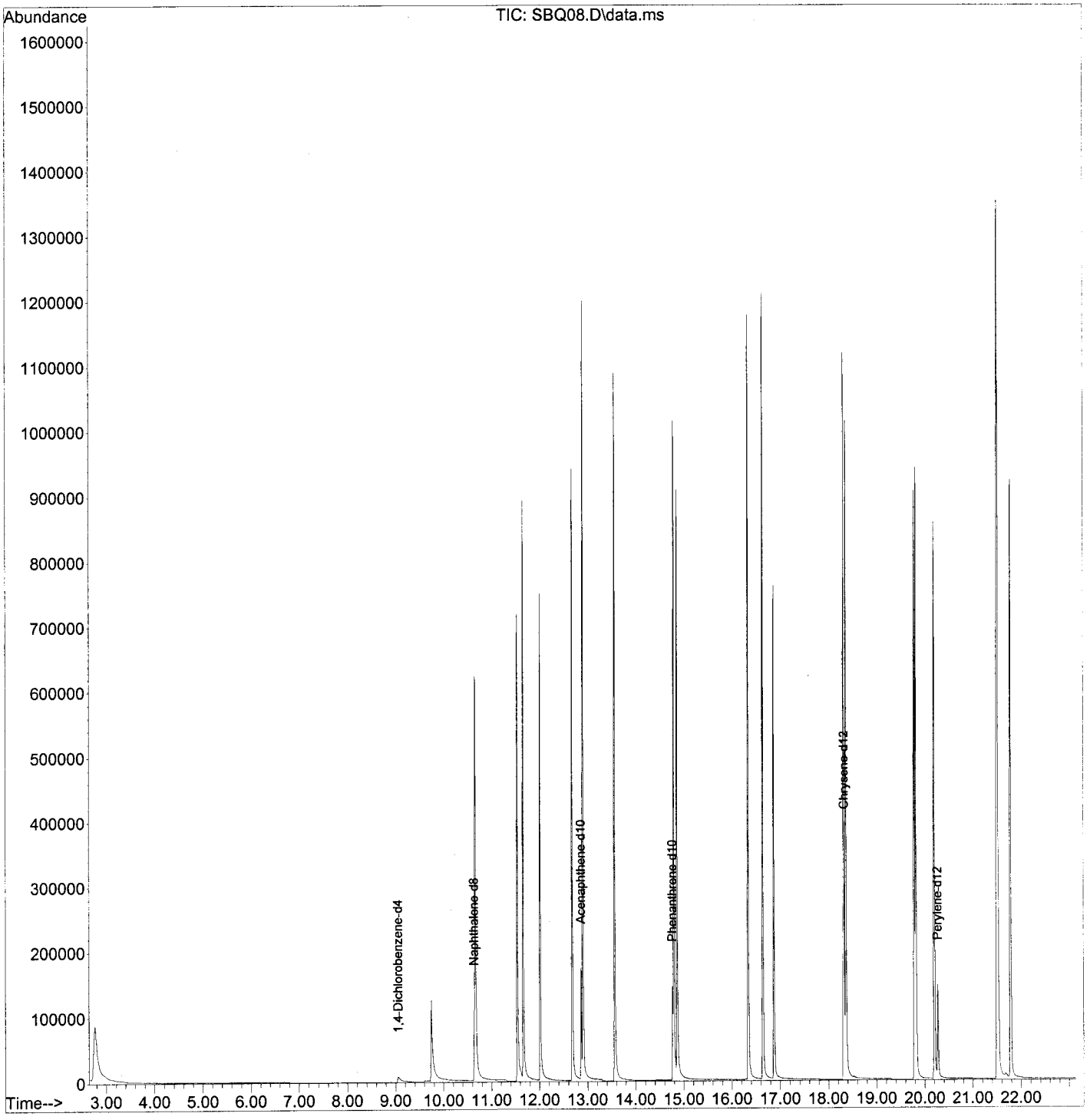
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	9.060	152	24150m	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.637	136	111720	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.864	164	63287	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.766	188	100386	1.0000	ug/mL	0.00
17) Chrysene-d12	18.328	240	115445	1.0000	ug/mL	0.00
22) Perylene-d12	20.266	264	105632	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.758	88	61175m	No Calib		
4) Nitrobenzene-d5	9.766	82	31522m	No Calib		
5) Naphthalene	10.664	128	225527	No Calib		
6) 2-Methylnaphthalene	11.542	142	134807m	No Calib		
7) 1-Methylnaphthalene	11.662	142	156502m	No Calib		
9) 2-Fluorobiphenyl	12.014	172	163639	No Calib		
10) Acenaphthylene	12.680	152	220522	No Calib		
11) Acenaphthene	12.903	154	138796	No Calib		
12) Fluorene	13.565	166	161862	No Calib		
14) Phenanthrene	14.794	178	214721	No Calib		
15) Anthracene	14.861	178	235047m	No Calib		
16) Fluoranthene	16.336	202	263847	No Calib		
18) Pyrene	16.638	202	272759	No Calib		
19) Terphenyl-d14	16.872	244	218998	No Calib		
20) Benzo(a)anthracene	18.316	228	256442	No Calib		
21) Chrysene	18.364	228	265356m	No Calib		
23) Benzo(b)fluoranthene	19.782	252	244513	No Calib		
24) Benzo(k)fluoranthene	19.814	252	280857m	No Calib		
25) Benzo(a)pyrene	20.193	252	235161m	No Calib		
26) Indeno(1,2,3-cd)pyrene	21.502	276	275269	No Calib		
27) Dibenz(a,h)anthracene	21.517	278	230813	No Calib		
28) Benzo(g,h,i)perylene	21.781	276	251961m	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ08.D
Acq On : 26 Feb 2008 8:42 pm
Operator :
Sample : ICAL,S8090
Misc : 5.0/25ug/mL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 28 14:09:24 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ08.D
Acq On : 26 Feb 2008 8:42 pm
Operator :
Sample : ICAL,S8090
Misc : 5.0/25ug/mL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 28 14:09:24 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration

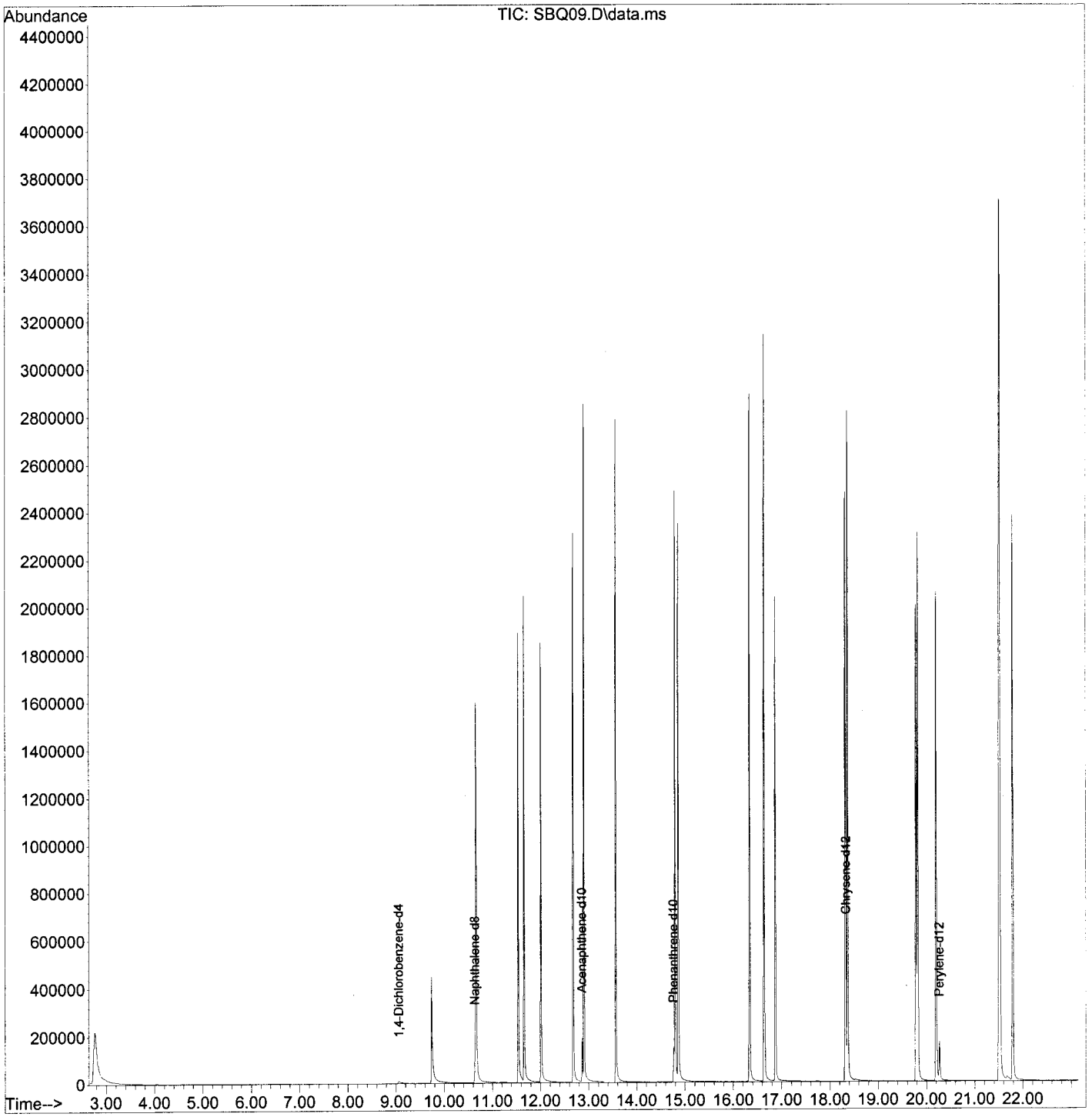
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	9.057	152	30221m	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.636	136	128574	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.862	164	83836	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.767	188	150022	1.0000	ug/mL	0.00
17) Chrysene-d12	18.329	240	148966	1.0000	ug/mL	0.00
22) Perylene-d12	20.268	264	135128	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.765	88	258821m	No Calib		
4) Nitrobenzene-d5	9.744	82	120576m	No Calib		
5) Naphthalene	10.663	128	726398	No Calib		
6) 2-Methylnaphthalene	11.537	142	454230	No Calib		
7) 1-Methylnaphthalene	11.662	142	538764m	No Calib		
9) 2-Fluorobiphenyl	12.011	172	629126	No Calib		
10) Acenaphthylene	12.678	152	780249	No Calib		
11) Acenaphthene	12.901	154	443199	No Calib		
12) Fluorene	13.564	166	606798	No Calib		
14) Phenanthrene	14.792	178	833166	No Calib		
15) Anthracene	14.859	178	815866m	No Calib		
16) Fluoranthene	16.337	202	961801	No Calib		
18) Pyrene	16.639	202	988111	No Calib		
19) Terphenyl-d14	16.869	244	748968	No Calib		
20) Benzo(a)anthracene	18.314	228	892099	No Calib		
21) Chrysene	18.365	228	894997m	No Calib		
23) Benzo(b)fluoranthene	19.782	252	895460	No Calib		
24) Benzo(k)fluoranthene	19.817	252	929779m	No Calib		
25) Benzo(a)pyrene	20.195	252	885088	No Calib		
26) Indeno(1,2,3-cd)pyrene	21.501	276	1116826	No Calib		
27) Dibenz(a,h)anthracene	21.516	278	914761	No Calib		
28) Benzo(g,h,i)perylene	21.785	276	932209m	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ09.D
Acq On : 26 Feb 2008 9:16 pm
Operator :
Sample : ICAL,S8091
Misc : 10/50ug/mL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 28 13:55:46 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration



00327

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ09.D
Acq On : 26 Feb 2008 9:16 pm
Operator :
Sample : ICAL,S8091
Misc : 10/50ug/mL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 28 13:55:46 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Mon Feb 25 18:09:46 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	9.057	152	31646m	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.636	136	153468	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.863	164	91230	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.767	188	150820	1.0000	ug/mL	0.00
17) Chrysene-d12	18.332	240	175123	1.0000	ug/mL	0.00
22) Perylene-d12	20.268	264	153712	1.0000	ug/mL	0.00

Target Compounds					Qvalue
2) 1,4-Dioxane	2.770	88	682352m	No Calib	
4) Nitrobenzene-d5	9.737	82	271261	No Calib	
5) Naphthalene	10.656	128	1692827	No Calib	
6) 2-Methylnaphthalene	11.538	142	1071538	No Calib	
7) 1-Methylnaphthalene	11.663	142	1176462m	No Calib	
9) 2-Fluorobiphenyl	12.012	172	1425758	No Calib	
10) Acenaphthylene	12.679	152	1808361	No Calib	
11) Acenaphthene	12.902	154	1040836	No Calib	
12) Fluorene	13.564	166	1421398	No Calib	
14) Phenanthrene	14.794	178	1962248	No Calib	
15) Anthracene	14.862	178	1955768m	No Calib	
16) Fluoranthene	16.340	202	2221030	No Calib	
18) Pyrene	16.641	202	2382824	No Calib	
19) Terphenyl-d14	16.872	244	1933500	No Calib	
20) Benzo(a)anthracene	18.317	228	2099046	No Calib	
21) Chrysene	18.369	228	2294098	No Calib	
23) Benzo(b)fluoranthene	19.788	252	2081082	No Calib	
24) Benzo(k)fluoranthene	19.822	252	2170087	No Calib	
25) Benzo(a)pyrene	20.202	252	2042451	No Calib	
26) Indeno(1,2,3-cd)pyrene	21.512	276	2793133	No Calib	
27) Dibenz(a,h)anthracene	21.522	278	2348028	No Calib	
28) Benzo(g,h,i)perylene	21.790	276	2300681m	No Calib	

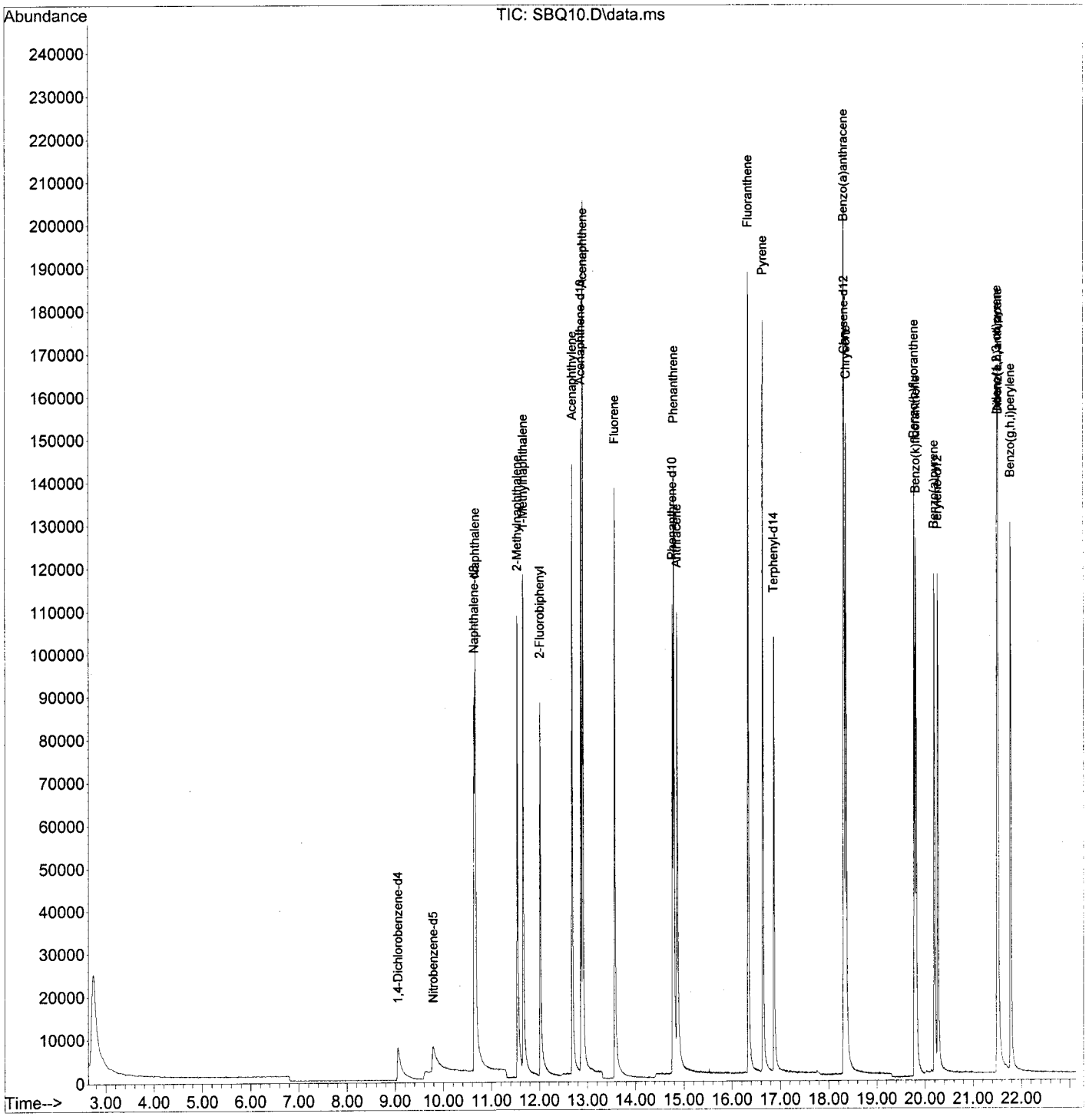
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00328

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ10.D
Acq On : 26 Feb 2008 9:49 pm
Operator :
Sample : ICV,S8092
Misc : 1.0/10ug/mL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 28 14:34:49 2008
Quant Method : G:\msbna08\022608\8PAHSIM.m
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Feb 28 14:34:26 2008
Response via : Initial Calibration



00329

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\022608\
Data File : SBQ10.D
Acq On : 26 Feb 2008 9:49 pm
Operator :
Sample : ICV,S8092
Misc : 1.0/10ug/mL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 28 14:34:49 2008
Quant Method : G:\msbna08\022608\8PAHSIM.m
Quant Title : MSBNA08 BNASIM
QLast Update : Thu Feb 28 14:34:26 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	9.061	152	27270m	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.642	136	124312	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.863	164	78749	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.767	188	121683	1.0000	ug/mL	0.00
17) Chrysene-d12	18.329	240	125473	1.0000	ug/mL	0.00
22) Perylene-d12	20.268	264	119499	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.747	88	72152m	No Calib		
4) Nitrobenzene-d5	9.791	82	17732m	0.9962	ug/mL	
5) Naphthalene	10.663	128	128673	1.0161	ug/mL	97
6) 2-Methylnaphthalene	11.542	142	82430	1.1600	ug/mL	94
7) 1-Methylnaphthalene	11.664	142	91575m	0.9880	ug/mL	
9) 2-Fluorobiphenyl	12.016	172	94641	0.9148	ug/mL	96
10) Acenaphthylene	12.682	152	140117	1.0543	ug/mL	96
11) Acenaphthene	12.905	154	85881	1.0718	ug/mL	99
12) Fluorene	13.568	166	94484	1.0185	ug/mL	97
14) Phenanthrene	14.795	178	134480	1.0210	ug/mL	99
15) Anthracene	14.862	178	128603m	0.9591	ug/mL	
16) Fluoranthene	16.337	202	171769	1.1130	ug/mL	95
18) Pyrene	16.638	202	161654	1.0050	ug/mL	94
19) Terphenyl-d14	16.872	244	120867	1.0027	ug/mL	96
20) Benzo(a)anthracene	18.314	228	144141	1.0550	ug/mL	97
21) Chrysene	18.366	228	165325m	1.0753	ug/mL	
23) Benzo(b)fluoranthene	19.780	252	141877	1.1116	ug/mL	95
24) Benzo(k)fluoranthene	19.816	252	150291m	0.9779	ug/mL	
25) Benzo(a)pyrene	20.195	252	140511m	1.0488	ug/mL	
26) Indeno(1,2,3-cd)pyrene	21.502	276	171203	1.1983	ug/mL	85
27) Dibenz(a,h)anthracene	21.522	278	130650	1.1110	ug/mL	76
28) Benzo(g,h,i)perylene	21.780	276	145880m	1.0954	ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00330

Curtis & Tompkins, Ltd.

Continuing Calibration Raw Data

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 1/5UG/ML IDF : 1.0
Seqnum : 528115647003.1 File : vck03 Time : 20-MAR-2008 08:27
Cal : 528107208001 Caldate : 14-MAR-2008
Standards: S8088

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1210	1.1004	1.000	0.9817	ug/mL	-2	20	0.0500	
2-Methylnaphthalene	0.7647	0.7487	1.000	0.9792	ug/mL	-2	20	0.0500	
Acenaphthylene	1.6145	1.7685	1.000	1.095	ug/mL	10	20	0.0500	
Acenaphthene	1.0726	1.0832	1.000	1.010	ug/mL	1	20	0.0500	
Fluorene	1.3120	1.3277	1.000	1.012	ug/mL	1	20	0.0500	
Phenanthrene	1.1807	1.1768	1.000	0.9967	ug/mL	0	20	0.0500	
Anthracene	1.0903	1.1537	1.000	1.058	ug/mL	6	20	0.0500	
Fluoranthene	1.2338	1.2621	1.000	1.023	ug/mL	2	20	0.0500	
Pyrene	1.3666	1.2598	1.000	0.9218	ug/mL	-8	20	0.0500	
Benzo(a)anthracene	1.1650	1.0940	1.000	0.9391	ug/mL	-6	20	0.0500	
Chrysene	1.2149	1.1219	1.000	0.9235	ug/mL	-8	20	0.0500	
Benzo(b)fluoranthene	1.3703	1.1942	1.000	0.8715	ug/mL	-13	20	0.0500	
Benzo(k)fluoranthene	1.3724	1.1903	1.000	0.8673	ug/mL	-13	20	0.0500	
Benzo(a)pyrene	1.1744	1.0301	1.000	0.8771	ug/mL	-12	20	0.0500	
Indeno(1,2,3-cd)pyrene	0.9245	0.8375	1.000	0.9058	ug/mL	-9	20	0.0500	
Dibenz(a,h)anthracene	0.7781	0.6960	1.000	0.8945	ug/mL	-11	20	0.0500	
Benzo(g,h,i)perylene	0.7760	0.6996	1.000	0.9015	ug/mL	-10	20	0.0500	
Nitrobenzene-d5	0.2873	0.2650	1.000	0.9223	ug/mL	-8	20	0.0500	
2-Fluorobiphenyl	1.3103	1.2769	1.000	0.9745	ug/mL	-3	20	0.0500	
Terphenyl-d14	0.9890	0.8832	1.000	0.8931	ug/mL	-11	20	0.0500	

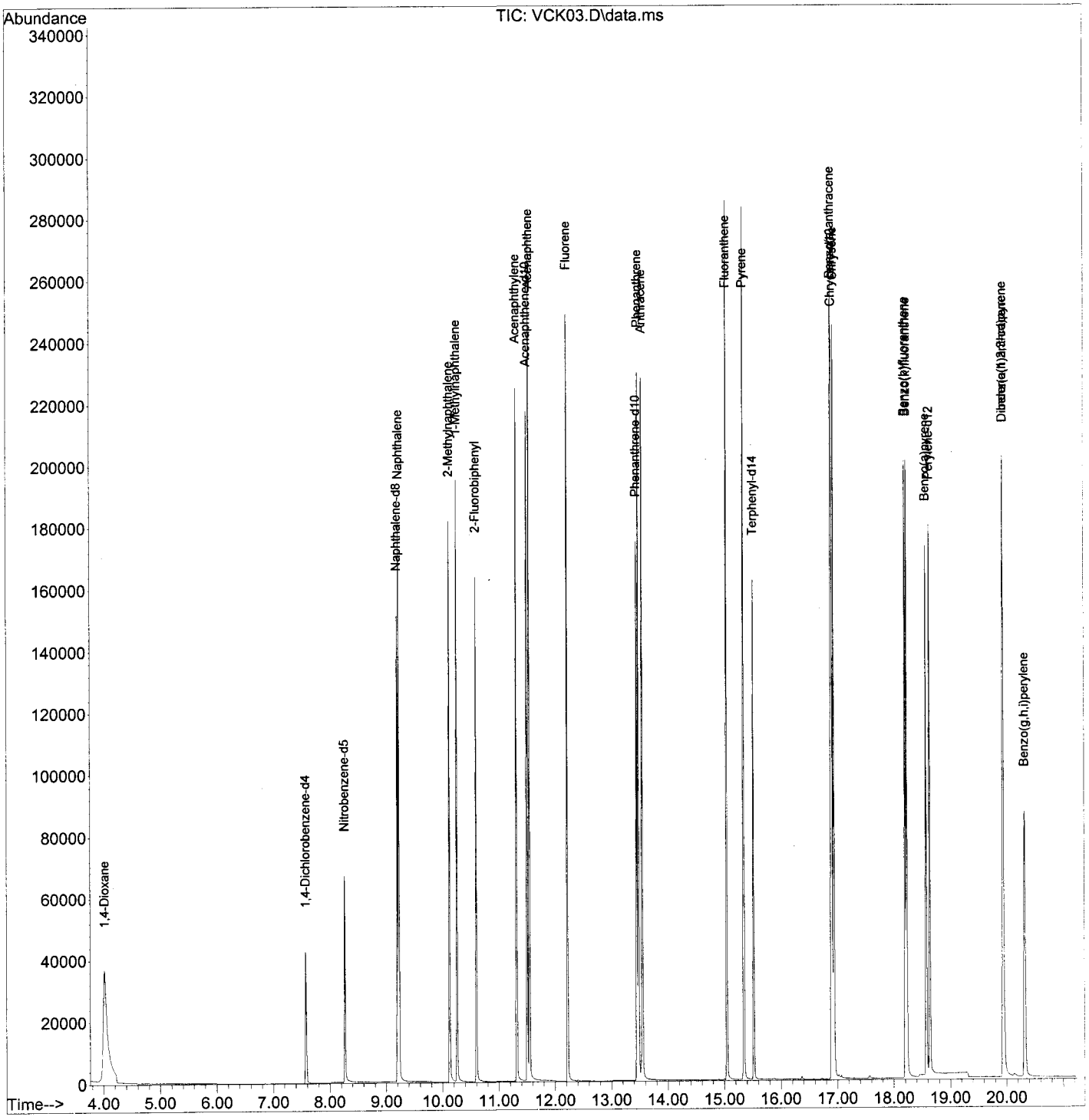
Analyst: JAJ Date: 03/21/08 Reviewer: LLH Date: 03/21/08

528115647003.1

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK03.D
Acq On : 20 Mar 2008 8:27 am
Operator :
Sample : CCV,S8088
Misc : 1/5ug/mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 20 09:49:02 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Wed Mar 19 13:05:50 2008
Response via : Initial Calibration



00333

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\032008\
Data File : VCK03.D
Acq On : 20 Mar 2008 8:27 am
Operator :
Sample : CCV,S8088
Misc : 1/5ug/mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 20 09:49:02 2008
Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
Quant Title : MSBNA03 BNASIM
QLast Update : Wed Mar 19 13:05:50 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.576	152	38188	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.200	136	128478	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.506	164	89562	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.452	188	151421	1.0000	ug/mL	0.00
17) Chrysene-d12	16.906	240	155293	1.0000	ug/mL	0.00
22) Perylene-d12	18.637	264	140300	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	4.018	88	100684	5.9956	ug/mL	77
4) Nitrobenzene-d5	8.264	82	34043	0.9223	ug/mL	83
5) Naphthalene	9.228	128	141378	0.9817	ug/mL	100
6) 2-Methylnaphthalene	10.126	142	96196	0.9792	ug/mL	91
7) 1-Methylnaphthalene	10.257	142	99436	0.9756	ug/mL	97
9) 2-Fluorobiphenyl	10.598	172	114361	0.9745	ug/mL	97
10) Acenaphthylene	11.318	152	158392	1.0954	ug/mL	99
11) Acenaphthene	11.548	154	97011	1.0098	ug/mL	93
12) Fluorene	12.218	166	118912	1.0120	ug/mL	96
14) Phenanthrene	13.483	178	178199	0.9967	ug/mL	100
15) Anthracene	13.552	178	174693	1.0581	ug/mL	97
16) Fluoranthene	15.045	202	191116	1.0230	ug/mL	98
18) Pyrene	15.346	202	195632	0.9218	ug/mL	99
19) Terphenyl-d14	15.521	244	137157	0.8931	ug/mL	84
20) Benzo(a)anthracene	16.891	228	169890	0.9391	ug/mL	97
21) Chrysene	16.939	228	174223	0.9235	ug/mL	94
23) Benzo(b)fluoranthene	18.200	252	167543	0.8715	ug/mL	99
24) Benzo(k)fluoranthene	18.230	252	166996	0.8673	ug/mL	99
25) Benzo(a)pyrene	18.574	252	144520	0.8771	ug/mL	96
26) Indeno(1,2,3-cd)pyrene	19.942	276	117497	0.9058	ug/mL	# 31
27) Dibenz(a,h)anthracene	19.945	278	97648	0.8945	ug/mL	91
28) Benzo(g,h,i)perylene	20.322	276	98155	0.9015	ug/mL	# 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202043 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA08 Run Name : PAHSIM IDF : 1.0
Seqnum : 578115801002.1 File : sck02 Time : 20-MAR-2008 10:24
Cal : 578083102001 Caldate : 26-FEB-2008
Standards: S8088

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0187	0.9974	1.000	0.9791	ug/mL	-2	20	0.0500	
2-Methylnaphthalene	0.5469	0.6524	1.000	1.143	ug/mL	14	20	0.0500	m
Acenaphthylene	1.6876	1.5743	1.000	0.9329	ug/mL	-7	20	0.0500	
Acenaphthene	1.0175	0.9646	1.000	0.9480	ug/mL	-5	20	0.0500	
Fluorene	1.1781	1.2243	1.000	1.039	ug/mL	4	20	0.0500	
Phenanthrene	1.0824	1.0166	1.000	0.9392	ug/mL	-6	20	0.0500	
Anthracene	1.1020	1.0358	1.000	0.9400	ug/mL	-6	20	0.0500	m
Fluoranthene	1.2682	1.2483	1.000	0.9843	ug/mL	-2	20	0.0500	
Pyrene	1.2820	1.1636	1.000	0.9076	ug/mL	-9	20	0.0500	
Benzo(a)anthracene	1.0889	1.0159	1.000	0.9329	ug/mL	-7	20	0.0500	
Chrysene	1.2254	1.1038	1.000	0.9008	ug/mL	-10	20	0.0500	m
Benzo(b)fluoranthene	1.0424	1.0207	1.000	0.9679	ug/mL	-3	20	0.0500	
Benzo(k)fluoranthene	1.2862	1.1343	1.000	0.8819	ug/mL	-12	20	0.0500	m
Benzo(a)pyrene	1.1211	0.9254	1.000	0.8255	ug/mL	-17	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2029	1.0233	1.000	0.8864	ug/mL	-11	20	0.0500	
Dibenz(a,h)anthracene	0.9710	0.8109	1.000	0.8519	ug/mL	-15	20	0.0500	
Benzo(g,h,i)perylene	1.1144	0.9328	1.000	0.8370	ug/mL	-16	20	0.0500	
Nitrobenzene-d5	0.1514	0.1406	1.000	0.9850	ug/mL	-2	20	0.0500	m
2-Fluorobiphenyl	1.3138	1.2023	1.000	0.9151	ug/mL	-8	20	0.0500	
Terphenyl-d14	0.9607	0.9532	1.000	0.9922	ug/mL	-1	20	0.0500	

Analyst: JAJ Date: 03/21/08 Reviewer: LLH Date: 03/21/08

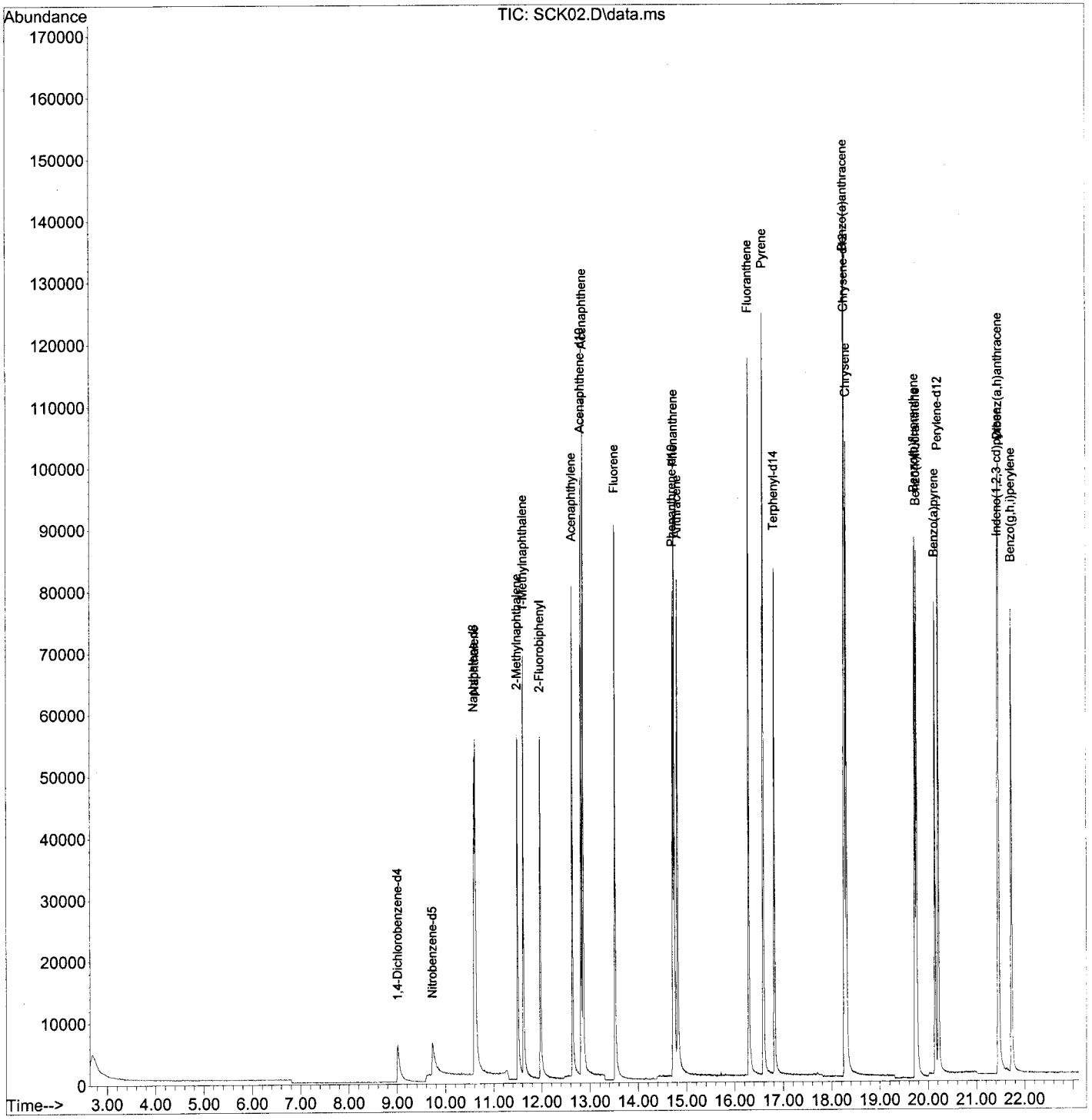
m=manual integration

578115801002.1

Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK02.D
Acq On : 20 Mar 2008 10:24 am
Operator :
Sample : CCV,S8088
Misc : PAHSIM
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 20 10:48:25 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Wed Mar 19 12:21:33 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna08\032008\
Data File : SCK02.D
Acq On : 20 Mar 2008 10:24 am
Operator :
Sample : CCV,S8088
Misc : PAHSIM
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 20 10:48:25 2008
Quant Method : C:\msdchem\1\METHODS\8PAHSIM.M
Quant Title : MSBNA08 BNASIM
QLast Update : Wed Mar 19 12:21:33 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	9.010	152	15757m	1.0000	ug/mL	-0.02
3) Naphthalene-d8	10.595	136	64577	1.0000	ug/mL	0.00
8) Acenaphthene-d10	12.817	164	45669	1.0000	ug/mL	0.00
13) Phenanthrene-d10	14.718	188	83109	1.0000	ug/mL	0.00
17) Chrysene-d12	18.274	240	92399	1.0000	ug/mL	0.00
22) Perylene-d12	20.212	264	87612	1.0000	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.691	88	7522m	No Calib		
4) Nitrobenzene-d5	9.730	82	9079m	0.9850	ug/mL	
5) Naphthalene	10.615	128	64408	0.9791	ug/mL	96
6) 2-Methylnaphthalene	11.498	142	42129m	1.1427	ug/mL	
7) 1-Methylnaphthalene	11.619	142	48801m	1.0136	ug/mL	
9) 2-Fluorobiphenyl	11.970	172	54906	0.9151	ug/mL	95
10) Acenaphthylene	12.633	152	71897	0.9329	ug/mL	97
11) Acenaphthene	12.856	154	44054	0.9480	ug/mL	96
12) Fluorene	13.521	166	55911	1.0392	ug/mL	100
14) Phenanthrene	14.746	178	84486	0.9392	ug/mL	98
15) Anthracene	14.816	178	86087m	0.9400	ug/mL	
16) Fluoranthene	16.288	202	103747	0.9843	ug/mL	94
18) Pyrene	16.590	202	107514	0.9076	ug/mL	93
19) Terphenyl-d14	16.821	244	88076	0.9922	ug/mL	95
20) Benzo(a)anthracene	18.259	228	93865	0.9329	ug/mL	96
21) Chrysene	18.311	228	101992m	0.9008	ug/mL	
23) Benzo(b)fluoranthene	19.727	252	89425	0.9679	ug/mL	94
24) Benzo(k)fluoranthene	19.760	252	99376m	0.8819	ug/mL	
25) Benzo(a)pyrene	20.139	252	81077	0.8255	ug/mL	91
26) Indeno(1,2,3-cd)pyrene	21.447	276	89656	0.8864	ug/mL	82
27) Dibenz(a,h)anthracene	21.462	278	71041	0.8519	ug/mL	74
28) Benzo(g,h,i)perylene	21.725	276	81727	0.8370	ug/mL	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 202043
ANALYTICAL REPORT
Metals

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065-EX1 Presidio
Petaluma, CA 94954	Level : IV

Sample ID	Lab ID
1065EX307[6.0]	202043-001
1065EX308[6.0]	202043-002
1065EX309[6.5]	202043-003
1065EX310[7.0]	202043-004
1065EX311[8.5]	202043-005
DUP031908	202043-006
1065EX312[6.0]	202043-007
1065EX313[4.5]	202043-008
1065EX314[5.5]	202043-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/03/2008
Project Manager

Signature: _____ Date: 04/03/2008
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
METALS (EPA 6010B AND EPA 7471A)

Laboratory number:	202043
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065-EX1 Presidio
Request Date:	03/19/08
Samples Received:	03/19/08

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1065EX307[6.0] (lab # 202043-001); the BS/BSD were within limits. High recoveries were observed for copper, nickel, and zinc in the MSD of 1065EX307[6.0] (lab # 202043-001); the BS/BSD were within limits. High RPD was observed for copper, antimony, and zinc in the MS/MSD of 1065EX307[6.0] (lab # 202043-001); the RPD was acceptable in the BS/BSD.

High % difference was observed for lead in the serial dilution of 1065EX307[6.0] (lab # 202043-001).

Zinc was detected between the MDL and the RL in the method blank for batch 136222; this analyte was detected in samples at a level at least 10 times that of the blank.

No other analytical problems were encountered.

65.0

00002

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

202043

3835

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065-Ex 1
JOB NO.: 408807511.5 07.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 3/19/08

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES including Lvl 3 Data Validation: VOCs (8260B) (5035A-Modified); TPH-g (5015M); TPH-d (8015B-Modified); PAHs (8270C-SIM w/ Silica Gel Cleanup); Title 22 Metals	FOR LAB USE ONLY
1005	X		SO	1065EX307[6.0]	SW 51N76E		14	X X X X X	
1025	X		SO	1065EX308[6.0]	SW 50N32E		7	X X X X X	
1040	X		SO	1065EX309[6.5]	SW 30N31E		7	X X X X X	
1105	X		SO	1065EX310[7.0]	SW 12N31E		7	X X X X X	
1125	X		SO	1065EX311[8.5]	B 21N44E		7	X X X X X	
1125	X		SO	DUP031908	B		7	X X X X X	
1150	X		SO	1065EX312[6.0]	B 26N66E		7	X X X X X	
1200	X		SO	1065EX313[4.5]	SW 3N80E		7	X X X X X	
1215	X		SO	1065EX314[5.5]	SW 29N71E		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	3/19/08 1230		3/19/08 1230			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS: Lvl 3 Data Validation
48-hr TAT

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

Anna Pajarillo

From: "Carlyon, Kristen" <KACARLYON@mactec.com>
To: "Anna M. Pajarillo" <anna@ctberk.com>
Cc: "Hart, Mary" <MCHART@mactec.com>; "Heassler, Mary Jo" <MHeassler@mactec.com>
Sent: Friday, March 21, 2008 1:06 PM
Subject: RE: 4084075115 - C&T Login Summary (202043)

Anna,

Please change this job to a level IV.

Kristen

From: Anna M. Pajarillo [mailto:anna@ctberk.com]
Sent: Friday, March 21, 2008 11:56 AM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Evans, Kathleen; Hart, Mary; Albrecht, Frederic
Subject: 4084075115 - C&T Login Summary (202043)

Status: Results will be emailed late today. TVH gas department is running on hold times, but are trying to fit these in today. I may not have ending CCVs, so results will be draft. -Anna

C&T Login Summary for 202043

Project: 4084075115 **Site:** Bldg 1065-EX1 Presidio **Lab Login #:** 202043 **Report Due:** 03/21/08 **PO#:** 200704465 **C&T Proj Mgr:** Anna M. Pajarillo	**Report To:** Mactec, Inc. 5341 Old Redwood Hwy Suite 300 Petaluma, CA 94954 ATTN: Mary Jo Heassler (707) 793-3800	**Bill To:** Mactec, Inc. 1105 Sanctu Suite 300 Alpharetta, (ATTN: Acc (415) 278-2

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	
1065EX307[6.0]	001	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		MS/MSD
				Soil	E8260		MS/MSD
				Soil	ETVH		MS/MSD
				Soil	MOISTURE		MS/MSD
				Soil	T26 MET		MS/MSD
				Soil	TEHM		MS/MSD, S.GEL
1065EX308[6.0]	002	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 202043 Date Received 3/19/08 Number of coolers 1
Client MACTEC Project BUILDING 1065-EX1

Date Opened 3/19/08 By (print) M. VILLANUEVA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ (NO)
How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? ..... YES NO (N/A)

3. Were custody papers dry and intact when received? ..... (YES) NO

4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO

5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO

6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None

☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A

Type of ice used: ☑ WET ☐ BLUE ☐ NONE Temp(°C) NO TEMP BLANK

☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... (YES) NO
If YES, what time were they transferred to freezer? 16:30

9. Did all bottles arrive unbroken/unopened? ..... (YES) NO

10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO

11. Are sample labels present, in good condition and complete? ..... (YES) NO

12. Do the sample labels agree with custody papers? ..... (YES) NO

13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO

14. Are the samples appropriately preserved? ..... YES NO (N/A)

15. Are bubbles absent in VOA samples? ..... YES NO (N/A)

16. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

_____

_____

Curtis & To

Results & QC Summary

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202043	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-EX1 Presidio
Field ID:	1065EX307[6.0]	Diln Fac:	1.000
Lab ID:	202043-001	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry		

Moisture: 22%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.89	0.64	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Arsenic	1.5	0.34	0.11	136222	03/21/08	EPA 3050B	EPA 6010B
Barium	88	0.32	0.025	136222	03/21/08	EPA 3050B	EPA 6010B
Beryllium	0.24	0.13	0.0028	136222	03/21/08	EPA 3050B	EPA 6010B
Cadmium	0.25 J	0.32	0.028	136222	03/21/08	EPA 3050B	EPA 6010B
Chromium	80	0.32	0.034	136222	03/21/08	EPA 3050B	EPA 6010B
Cobalt	11	0.32	0.025	136222	03/21/08	EPA 3050B	EPA 6010B
Copper	24	0.34	0.11	136222	03/21/08	EPA 3050B	EPA 6010B
Lead	21	0.22	0.073	136222	03/21/08	EPA 3050B	EPA 6010B
Mercury	0.029	0.026	0.0046	136197	03/20/08	METHOD	EPA 7471A
Molybdenum	ND	0.32	0.060	136222	03/21/08	EPA 3050B	EPA 6010B
Nickel	59	0.32	0.028	136222	03/21/08	EPA 3050B	EPA 6010B
Selenium	ND	0.64	0.055	136222	03/21/08	EPA 3050B	EPA 6010B
Silver	ND	0.32	0.067	136222	03/21/08	EPA 3050B	EPA 6010B
Thallium	ND	0.64	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Vanadium	49	0.32	0.035	136222	03/21/08	EPA 3050B	EPA 6010B
Zinc	77	1.3	0.042	136222	03/21/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202043	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-EX1 Presidio
Field ID:	1065EX308[6.0]	Diln Fac:	1.000
Lab ID:	202043-002	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry		

Moisture: 15%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.66	0.59	0.096	136222	03/21/08	EPA 3050B	EPA 6010B
Arsenic	0.75	0.32	0.11	136222	03/21/08	EPA 3050B	EPA 6010B
Barium	72	0.29	0.024	136222	03/21/08	EPA 3050B	EPA 6010B
Beryllium	0.27	0.12	0.0026	136222	03/21/08	EPA 3050B	EPA 6010B
Cadmium	0.18 J	0.29	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Chromium	82	0.29	0.032	136222	03/21/08	EPA 3050B	EPA 6010B
Cobalt	10	0.29	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Copper	10	0.32	0.11	136222	03/21/08	EPA 3050B	EPA 6010B
Lead	17	0.20	0.068	136222	03/21/08	EPA 3050B	EPA 6010B
Mercury	0.0090 J	0.024	0.0047	136197	03/20/08	METHOD	EPA 7471A
Molybdenum	ND	0.29	0.056	136222	03/21/08	EPA 3050B	EPA 6010B
Nickel	51	0.29	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Selenium	ND	0.59	0.052	136222	03/21/08	EPA 3050B	EPA 6010B
Silver	ND	0.29	0.063	136222	03/21/08	EPA 3050B	EPA 6010B
Thallium	ND	0.59	0.094	136222	03/21/08	EPA 3050B	EPA 6010B
Vanadium	53	0.29	0.033	136222	03/21/08	EPA 3050B	EPA 6010B
Zinc	29	1.2	0.039	136222	03/21/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202043	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-EX1 Presidio
Field ID:	1065EX309[6.5]	Diln Fac:	1.000
Lab ID:	202043-003	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry		

Moisture: 16%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.44 J	0.60	0.094	136222	03/21/08	EPA 3050B	EPA 6010B
Arsenic	0.76	0.31	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Barium	45	0.30	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Beryllium	0.17	0.12	0.0026	136222	03/21/08	EPA 3050B	EPA 6010B
Cadmium	0.14 J	0.30	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Chromium	79	0.30	0.031	136222	03/21/08	EPA 3050B	EPA 6010B
Cobalt	7.6	0.30	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Copper	6.7	0.31	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Lead	1.4	0.20	0.066	136222	03/21/08	EPA 3050B	EPA 6010B
Mercury	ND	0.024	0.0051	136197	03/20/08	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.054	136222	03/21/08	EPA 3050B	EPA 6010B
Nickel	50	0.30	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.051	136222	03/21/08	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.061	136222	03/21/08	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.092	136222	03/21/08	EPA 3050B	EPA 6010B
Vanadium	43	0.30	0.032	136222	03/21/08	EPA 3050B	EPA 6010B
Zinc	24	1.2	0.039	136222	03/21/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202043	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-EX1 Presidio
Field ID:	1065EX310[7.0]	Diln Fac:	1.000
Lab ID:	202043-004	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry		

Moisture: 16%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.39 J	0.60	0.093	136222	03/21/08	EPA 3050B	EPA 6010B
Arsenic	ND	0.31	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Barium	40	0.30	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Beryllium	0.20	0.12	0.0025	136222	03/21/08	EPA 3050B	EPA 6010B
Cadmium	0.24 J	0.30	0.025	136222	03/21/08	EPA 3050B	EPA 6010B
Chromium	62	0.30	0.031	136222	03/21/08	EPA 3050B	EPA 6010B
Cobalt	7.9	0.30	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Copper	6.1	0.31	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Lead	1.1	0.20	0.066	136222	03/21/08	EPA 3050B	EPA 6010B
Mercury	ND	0.025	0.0058	136197	03/20/08	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.054	136222	03/21/08	EPA 3050B	EPA 6010B
Nickel	47	0.30	0.025	136222	03/21/08	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.050	136222	03/21/08	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.061	136222	03/21/08	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.091	136222	03/21/08	EPA 3050B	EPA 6010B
Vanadium	38	0.30	0.032	136222	03/21/08	EPA 3050B	EPA 6010B
Zinc	23	1.2	0.038	136222	03/21/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202043	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-EX1 Presidio
Field ID:	1065EX311[8.5]	Diln Fac:	1.000
Lab ID:	202043-005	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry		

Moisture: 21%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.41 J	0.63	0.11	136222	03/21/08	EPA 3050B	EPA 6010B
Arsenic	2.1	0.35	0.12	136222	03/21/08	EPA 3050B	EPA 6010B
Barium	74	0.32	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Beryllium	0.21	0.13	0.0029	136222	03/21/08	EPA 3050B	EPA 6010B
Cadmium	0.30 J	0.32	0.029	136222	03/21/08	EPA 3050B	EPA 6010B
Chromium	77	0.32	0.035	136222	03/21/08	EPA 3050B	EPA 6010B
Cobalt	7.4	0.32	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Copper	12	0.35	0.12	136222	03/21/08	EPA 3050B	EPA 6010B
Lead	260	0.23	0.075	136222	03/21/08	EPA 3050B	EPA 6010B
Mercury	0.094	0.026	0.0062	136197	03/20/08	METHOD	EPA 7471A
Molybdenum	ND	0.32	0.062	136222	03/21/08	EPA 3050B	EPA 6010B
Nickel	47	0.32	0.029	136222	03/21/08	EPA 3050B	EPA 6010B
Selenium	ND	0.63	0.057	136222	03/21/08	EPA 3050B	EPA 6010B
Silver	ND	0.32	0.070	136222	03/21/08	EPA 3050B	EPA 6010B
Thallium	ND	0.63	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Vanadium	44	0.32	0.037	136222	03/21/08	EPA 3050B	EPA 6010B
Zinc	210	1.3	0.044	136222	03/21/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202043	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-EX1 Presidio
Field ID:	DUP031908	Diln Fac:	1.000
Lab ID:	202043-006	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry		

Moisture: 21%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.63 J	0.63	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Arsenic	0.76	0.34	0.11	136222	03/21/08	EPA 3050B	EPA 6010B
Barium	74	0.32	0.025	136222	03/21/08	EPA 3050B	EPA 6010B
Beryllium	0.24	0.13	0.0028	136222	03/21/08	EPA 3050B	EPA 6010B
Cadmium	0.24 J	0.32	0.028	136222	03/21/08	EPA 3050B	EPA 6010B
Chromium	110	0.32	0.034	136222	03/21/08	EPA 3050B	EPA 6010B
Cobalt	9.6	0.32	0.025	136222	03/21/08	EPA 3050B	EPA 6010B
Copper	7.6	0.34	0.11	136222	03/21/08	EPA 3050B	EPA 6010B
Lead	8.1	0.22	0.072	136222	03/21/08	EPA 3050B	EPA 6010B
Mercury	0.011 J	0.025	0.0043	136197	03/20/08	METHOD	EPA 7471A
Molybdenum	ND	0.32	0.060	136222	03/21/08	EPA 3050B	EPA 6010B
Nickel	70	0.32	0.028	136222	03/21/08	EPA 3050B	EPA 6010B
Selenium	ND	0.63	0.055	136222	03/21/08	EPA 3050B	EPA 6010B
Silver	ND	0.32	0.067	136222	03/21/08	EPA 3050B	EPA 6010B
Thallium	ND	0.63	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Vanadium	50	0.32	0.035	136222	03/21/08	EPA 3050B	EPA 6010B
Zinc	32	1.3	0.042	136222	03/21/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202043	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-EX1 Presidio
Field ID:	1065EX312[6.0]	Diln Fac:	1.000
Lab ID:	202043-007	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry		

Moisture: 16%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.41 J	0.60	0.093	136222	03/21/08	EPA 3050B	EPA 6010B
Arsenic	1.7	0.31	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Barium	51	0.30	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Beryllium	0.20	0.12	0.0025	136222	03/21/08	EPA 3050B	EPA 6010B
Cadmium	0.24 J	0.30	0.025	136222	03/21/08	EPA 3050B	EPA 6010B
Chromium	100	0.30	0.031	136222	03/21/08	EPA 3050B	EPA 6010B
Cobalt	8.8	0.30	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Copper	7.5	0.31	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Lead	7.2	0.20	0.066	136222	03/21/08	EPA 3050B	EPA 6010B
Mercury	0.013 J	0.024	0.0045	136197	03/20/08	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.054	136222	03/21/08	EPA 3050B	EPA 6010B
Nickel	58	0.30	0.025	136222	03/21/08	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.050	136222	03/21/08	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.061	136222	03/21/08	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.091	136222	03/21/08	EPA 3050B	EPA 6010B
Vanadium	53	0.30	0.032	136222	03/21/08	EPA 3050B	EPA 6010B
Zinc	28	1.2	0.038	136222	03/21/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202043	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-EX1 Presidio
Field ID:	1065EX313[4.5]	Diln Fac:	1.000
Lab ID:	202043-008	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry		

Moisture: 15%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.37 J	0.59	0.093	136222	03/21/08	EPA 3050B	EPA 6010B
Arsenic	1.1	0.31	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Barium	72	0.29	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Beryllium	0.19	0.12	0.0026	136222	03/21/08	EPA 3050B	EPA 6010B
Cadmium	0.31	0.29	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Chromium	76	0.29	0.031	136222	03/21/08	EPA 3050B	EPA 6010B
Cobalt	7.6	0.29	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Copper	19	0.31	0.10	136222	03/21/08	EPA 3050B	EPA 6010B
Lead	42	0.20	0.066	136222	03/21/08	EPA 3050B	EPA 6010B
Mercury	0.091	0.024	0.0051	136197	03/20/08	METHOD	EPA 7471A
Molybdenum	ND	0.29	0.054	136222	03/21/08	EPA 3050B	EPA 6010B
Nickel	49	0.29	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Selenium	ND	0.59	0.050	136222	03/21/08	EPA 3050B	EPA 6010B
Silver	ND	0.29	0.061	136222	03/21/08	EPA 3050B	EPA 6010B
Thallium	ND	0.59	0.092	136222	03/21/08	EPA 3050B	EPA 6010B
Vanadium	44	0.29	0.032	136222	03/21/08	EPA 3050B	EPA 6010B
Zinc	120	1.2	0.038	136222	03/21/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202043	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-EX1 Presidio
Field ID:	1065EX314[5.5]	Diln Fac:	1.000
Lab ID:	202043-009	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry		

Moisture: 18%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	0.23 J	0.61	0.096	136222	03/21/08	EPA 3050B	EPA 6010B
Arsenic	3.9	0.32	0.11	136222	03/21/08	EPA 3050B	EPA 6010B
Barium	81	0.30	0.024	136222	03/21/08	EPA 3050B	EPA 6010B
Beryllium	0.20	0.12	0.0026	136222	03/21/08	EPA 3050B	EPA 6010B
Cadmium	0.77	0.30	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Chromium	70	0.30	0.032	136222	03/21/08	EPA 3050B	EPA 6010B
Cobalt	9.5	0.30	0.023	136222	03/21/08	EPA 3050B	EPA 6010B
Copper	30	0.32	0.11	136222	03/21/08	EPA 3050B	EPA 6010B
Lead	130	0.20	0.068	136222	03/21/08	EPA 3050B	EPA 6010B
Mercury	0.24	0.024	0.0052	136197	03/20/08	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.056	136222	03/21/08	EPA 3050B	EPA 6010B
Nickel	50	0.30	0.026	136222	03/21/08	EPA 3050B	EPA 6010B
Selenium	ND	0.61	0.052	136222	03/21/08	EPA 3050B	EPA 6010B
Silver	0.084 J	0.30	0.063	136222	03/21/08	EPA 3050B	EPA 6010B
Thallium	ND	0.61	0.094	136222	03/21/08	EPA 3050B	EPA 6010B
Vanadium	45	0.30	0.033	136222	03/21/08	EPA 3050B	EPA 6010B
Zinc	450	1.2	0.039	136222	03/21/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC433774	Batch#:	136197
Matrix:	Soil	Prepared:	03/20/08
Units:	mg/Kg	Analyzed:	03/20/08

Result	RL	MDL
ND	0.020	0.0047

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

24.0

00017

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC433883	Batch#:	136222
Matrix:	Soil	Prepared:	03/20/08
Units:	mg/Kg	Analyzed:	03/20/08
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.087
Arsenic	ND	0.29	0.096
Barium	ND	0.25	0.022
Beryllium	ND	0.10	0.0024
Cadmium	ND	0.25	0.024
Chromium	ND	0.25	0.029
Cobalt	ND	0.25	0.021
Copper	ND	0.29	0.096
Lead	ND	0.19	0.062
Molybdenum	ND	0.25	0.051
Nickel	ND	0.25	0.024
Selenium	ND	0.50	0.047
Silver	ND	0.25	0.057
Thallium	ND	0.50	0.086
Vanadium	ND	0.25	0.030
Zinc	0.20 J	1.0	0.036

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

25.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136197
Units:	mg/Kg	Prepared:	03/20/08
Basis:	as received	Analyzed:	03/20/08

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC433775	0.5000	0.5470	109	75-125		
BSD	QC433776	0.5000	0.5220	104	75-125	5	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	136222
Basis:	as received	Prepared:	03/20/08

Type: BS Analyzed: 03/20/08
Lab ID: QC433884

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.52	96	75-125
Arsenic	50.00	47.81	96	75-125
Barium	100.0	95.71	96	75-125
Beryllium	2.500	2.451	98	75-125
Cadmium	10.00	9.674	97	75-125
Chromium	100.0	94.26	94	75-125
Cobalt	25.00	22.97	92	75-125
Copper	12.50	11.73	94	75-125
Lead	100.0	93.04	93	75-125
Molybdenum	20.00	20.11	101	75-125
Nickel	25.00	23.69	95	75-125
Selenium	50.00	48.01	96	75-125
Silver	10.00	8.994	90	75-125
Thallium	50.00	47.19	94	75-125
Vanadium	25.00	23.48	94	75-125
Zinc	25.00	23.80	95	75-125

Type: BSD Analyzed: 03/21/08
Lab ID: QC433885

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	95.94	96	75-125	0	30
Arsenic	50.00	48.24	96	75-125	1	30
Barium	100.0	95.54	96	75-125	0	30
Beryllium	2.500	2.451	98	75-125	0	30
Cadmium	10.00	9.753	98	75-125	1	30
Chromium	100.0	94.14	94	75-125	0	30
Cobalt	25.00	23.10	92	75-125	1	30
Copper	12.50	11.68	93	75-125	0	30
Lead	100.0	93.60	94	75-125	1	30
Molybdenum	20.00	20.13	101	75-125	0	30
Nickel	25.00	23.70	95	75-125	0	30
Selenium	50.00	48.23	96	75-125	0	30
Silver	10.00	8.990	90	75-125	0	30
Thallium	50.00	47.36	95	75-125	0	30
Vanadium	25.00	23.34	93	75-125	1	30
Zinc	25.00	23.82	95	75-125	0	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	1065EX307[6.0]	Batch#:	136197
MSS Lab ID:	202043-001	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry	Analyzed:	03/20/08

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC433778	0.02949	0.5342	0.5951	106	75-125	22%		
MSD	QC433779		0.6677	0.7425	107	75-125	22%	1	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX307[6.0]	Batch#:	136222
MSS Lab ID:	202043-001	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Prepared:	03/20/08
Basis:	dry	Analyzed:	03/21/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC433886

Moisture: 22%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.8939	120.9	56.54	46 *	75-125
Arsenic	1.544	60.47	56.11	90	75-125
Barium	87.66	120.9	167.9	66 *	75-125
Beryllium	0.2449	3.024	3.085	94	75-125
Cadmium	0.2527	12.09	11.55	93	75-125
Chromium	80.27	120.9	189.9	91	75-125
Cobalt	10.78	30.24	35.35	81	75-125
Copper	23.53	15.12	22.58	-6 * P	75-125
Lead	21.31	120.9	124.2	85	75-125
Molybdenum	<0.05971	24.19	22.19	92	75-125
Nickel	58.76	30.24	86.34	91 P	75-125
Selenium	<0.05544	60.47	52.09	86	75-125
Silver	<0.06724	12.09	10.74	89	75-125
Thallium	<0.1007	60.47	51.38	85	75-125
Vanadium	49.49	30.24	71.94	74 * P	75-125
Zinc	76.99	30.24	58.80	-60 * P	75-125

Type: MSD
Lab ID: QC433887

Moisture: 22%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	115.5	37.57	32 *	75-125	36 *	30
Arsenic	57.75	54.33	91	75-125	1	30
Barium	115.5	205.5	102	75-125	23	30
Beryllium	2.888	2.948	94	75-125	0	30
Cadmium	11.55	10.82	91	75-125	2	30
Chromium	115.5	179.0	86	75-125	3	30
Cobalt	28.88	36.41	89	75-125	6	30
Copper	14.44	83.16	413 * P	75-125	116 *	30
Lead	115.5	150.4	112	75-125	23	30
Molybdenum	23.10	19.24	83	75-125	10	30
Nickel	28.88	95.24	126 * P	75-125	11	30
Selenium	57.75	46.99	81	75-125	6	30
Silver	11.55	10.03	87	75-125	2	30
Thallium	57.75	45.49	79	75-125	8	30
Vanadium	28.88	79.80	105 P	75-125	12	30
Zinc	28.88	154.4	268 * P	75-125	91 *	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	1065EX307[6.0]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	136197
MSS Lab ID:	202043-001	Sampled:	03/19/08
Lab ID:	QC433777	Received:	03/19/08
Matrix:	Soil	Analyzed:	03/20/08
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.02949	0.02564	ND	0.09862	22%	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX307[6.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	202043-001	Batch#:	136222
Lab ID:	QC433888	Sampled:	03/19/08
Matrix:	Soil	Received:	03/19/08
Units:	mg/Kg	Analyzed:	03/21/08

Moisture: 22%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	0.8939	0.6410	2.205	1.538	NC	10
Arsenic	1.544	0.3387	1.885	1.693	NC	10
Barium	87.66	0.3205	94.52	1.470	8	10
Beryllium	0.2449	0.1282	0.2664 J	0.5881	9	10
Cadmium	0.2527	0.3205	0.3096 J	1.470	NC	10
Chromium	80.27	0.3205	86.86	1.470	8	10
Cobalt	10.78	0.3205	11.89	1.470	10	10
Copper	23.53	0.3389	24.84	1.694	6	10
Lead	21.31	0.2182	23.74	1.091	11 *	10
Molybdenum	ND	0.3205	ND	1.470	NC	10
Nickel	58.76	0.3205	64.45	1.470	10	10
Selenium	ND	0.6410	ND	1.470	NC	10
Silver	ND	0.3205	ND	1.470	NC	10
Thallium	ND	0.6410	ND	1.510	NC	10
Vanadium	49.49	0.3205	52.81	1.470	7	10
Zinc	76.99	1.282	83.58	5.881	9	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum : 98116490026
File : 032008ar
IDF : 1.0
Lab ID : 202043-001
Matrix : Soil
Batch : 136222
Time : 21-MAR-2008 00:07
Cal : 98116490001
Units : ug/L

Type : PDS
Inst : MET09
Seqnum : 98116490030
File : 032008ar
IDF : 1.0
Lab ID : QC433889
Matrix : Soil
Batch : 136222
Time : 21-MAR-2008 00:20
Cal : 98116490001

MSS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF
PDS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF

PDS standards: S8385 (100X), S8386

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	15.20	A	200000	1844	A	**1***	75-125	!<a+ u
Arsenic	26.25	A	1000	955.4	A	93	75-125	!<a+ u **y**
Barium	1491	A	200000	3191	A	**1***	75-125	u
Beryllium	4.165	A	50.00	50.03	A	92	75-125	!<a+ u
Cadmium	4.298	A	200.0	183.9	A	90	75-125	!<a- !>ib u
Calcium	70900	R	20000	83570	R	**63***	75-125	u
Chromium	1365	A	2000	3074	A	85	75-125	u
Cobalt	183.2	A	500.0	601.5	A	84	75-125	!<a+ u
Copper	400.1	A	250.0	613.5	A	85	75-125	u
Lead	362.4	A	2000	2080	A	86	75-125	u
Magnesium	74380	R	20000	86730	R	**62***	75-125	u
Manganese	4750	A	500.0	4962	A	42	75-125	: u
Molybdenum	ND	A	40000	373.4	A	**1***	75-125	!<a+ u
Nickel	999.1	A	500.0	1384	A	77	75-125	u
Potassium	12340	R	10000	20820	R	85	75-125	!<a+ u
Selenium	ND	A	1000	863.7	A	86	75-125	u
Silver	ND	A	200.0	172.7	A	86	75-125	u
Sodium	3996	R	20000	22780	R	94	75-125	!<a+ u
Thallium	ND	A	1000	822.5	A	82	75-125	u
Vanadium	841.5	A	500.0	1252	A	82	75-125	u
Zinc	1309	A	500.0	1683	A	75	75-125	!<a+ u
Boron	315.0	A	1000	1231	A	92	75-125	!<a+ !<ib !>ib u
Tin	12.34	A	100000	891.7	A	**1***	75-125	!<a- u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2478791	2457888	-0.84

MISSING READINGS: **TI**

!=warning +=high bias -=low bias :=recovery not meaningful <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 202043 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
202043-001	MET04	03/20/08 14:56	1.0										+							
202043-001	MET09	03/21/08 00:07	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
202043-001	MET09	03/21/08 02:18	1.0																	
202043-002	MET04	03/20/08 15:33	1.0										+							
202043-002	MET09	03/21/08 00:23	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
202043-002	MET09	03/21/08 02:22	1.0	+																
202043-003	MET04	03/20/08 15:36	1.0										+							
202043-003	MET09	03/21/08 00:27	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
202043-003	MET09	03/21/08 02:26	1.0																	
202043-004	MET04	03/20/08 15:42	1.0										+							
202043-004	MET09	03/21/08 00:43	1.0																	
202043-004	MET09	03/21/08 02:41	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
202043-005	MET04	03/20/08 15:44	1.0										+							
202043-005	MET09	03/21/08 00:47	1.0																	
202043-005	MET09	03/21/08 02:45	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
202043-006	MET04	03/20/08 15:46	1.0										+							
202043-006	MET09	03/21/08 00:53	1.0																	
202043-006	MET09	03/21/08 02:50	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
202043-007	MET04	03/20/08 15:49	1.0										+							
202043-007	MET09	03/21/08 00:57	1.0																	
202043-007	MET09	03/21/08 02:54	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
202043-008	MET04	03/20/08 15:51	1.0										+							
202043-008	MET09	03/21/08 01:01	1.0																	
202043-008	MET09	03/21/08 02:58	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
202043-009	MET04	03/20/08 15:53	1.0										+							
202043-009	MET09	03/21/08 01:05	1.0																	
202043-009	MET09	03/21/08 03:02	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC433774	MET04	03/20/08 14:49	1.0										+							
QC433775	MET04	03/20/08 14:51	1.0										+							
QC433776	MET04	03/20/08 14:53	1.0										+							
QC433777	MET04	03/20/08 14:58	5.0										+							
QC433778	MET04	03/20/08 15:00	1.0										+							
QC433779	MET04	03/20/08 15:02	1.0										+							

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 202043 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN	
QC433883	MET09	03/20/08 23:54	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC433884	MET09	03/20/08 23:59	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC433885	MET09	03/21/08 00:03	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC433886	MET09	03/21/08 00:10	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC433887	MET09	03/21/08 00:13	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC433888	MET09	03/21/08 00:16	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC433889	MET09	03/21/08 00:20	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98116490 Instrument: MET09 PE ICP MET09 Begun: 20-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	032008ar	ICALBLK				20-MAR-2008 21:30	1.0	1.0					
002	032008ar	ICAL	CRIM08			20-MAR-2008 21:34	1.0	1.0				1	
003	032008ar	ICAL	CS100			20-MAR-2008 21:38	1.0	1.0				2	
004	032008ar	ICAL	CS1K			20-MAR-2008 21:42	1.0	1.0				3	
005	032008ar	ICAL	CS10K			20-MAR-2008 21:46	1.0	1.0				4	
006	032008ar	ICAL	CS100K			20-MAR-2008 21:50	1.0	1.0				5	
007	032008ar	ICV				20-MAR-2008 21:54	1.0	1.0			5000	6	
008	032008ar	ICB				20-MAR-2008 22:11	1.0	1.0			5000		
009	032008ar	ICSA				20-MAR-2008 22:16	1.0	1.0			5000	7	10:MG=517640
010	032008ar	ICSAB				20-MAR-2008 22:26	1.0	1.0			5000	8	5:MG=533585
011	032008ar	BLANK	QC433694	136178	Soil	20-MAR-2008 22:31	1.0	50.0	2		5000		
012	032008ar	BS	QC433695	136178	Soil	20-MAR-2008 22:35	1.0	50.0			5000		
013	032008ar	BSD	QC433696	136178	Soil	20-MAR-2008 22:38	1.0	50.0			5000		
014	032008ar	MSS	202024-001	136178	Soil	20-MAR-2008 22:41	1.0	45.05	3		5000		3:FE=1822760
015	032008ar	MS	QC433697	136178	Soil	20-MAR-2008 22:44	1.0	46.30		4	5000		4:FE=1878339
016	032008ar	MSD	QC433698	136178	Soil	20-MAR-2008 22:46	1.0	48.08		6	5000		3:FE=1567663
017	032008ar	SER	QC433699	136178	Soil	20-MAR-2008 22:48	5.0	45.05		7	5000		1:FE=490109
018	032008ar	PDS	QC433700	136178	Soil	20-MAR-2008 22:52	1.0	45.05		2	5000	9 10	3:FE=1765683
019	032008ar	ICSAB				20-MAR-2008 22:54	1.0	1.0			5000	8	5:MG=496479
020	032008ar	CCV				20-MAR-2008 22:59	1.0	1.0			5000	11	
021	032008ar	X				20-MAR-2008 23:03	1.0						
022	032008ar	CCB				20-MAR-2008 23:06	1.0	1.0			5000		
023	032008ar	BLANK	QC433883	136222	Soil	20-MAR-2008 23:54	1.0	50.0			5000		
024	032008ar	BS	QC433884	136222	Soil	20-MAR-2008 23:59	1.0	50.0			5000		
025	032008ar	BSD	QC433885	136222	Soil	21-MAR-2008 00:03	1.0	50.0			5000		
026	032008ar	MSS	202043-001	136222	Soil	21-MAR-2008 00:07	1.0	45.87	3		5000		3:FE=351039
027	032008ar	MS	QC433886	136222	Soil	21-MAR-2008 00:10	1.0	47.17		2	5000		3:FE=325271
028	032008ar	MSD	QC433887	136222	Soil	21-MAR-2008 00:13	1.0	45.05	1	5	5000		4:FE=383031
029	032008ar	SER	QC433888	136222	Soil	21-MAR-2008 00:16	5.0	45.87	1	4	5000		
030	032008ar	PDS	QC433889	136222	Soil	21-MAR-2008 00:20	1.0	45.87		6	5000	9 10	3:FE=343279
031	032008ar	SAMPLE	202043-002	136222	Soil	21-MAR-2008 00:23	1.0	46.73	1		5000		3:FE=339898

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8719 8=S8351 9=S8385 10=S8386 11=S8614

Analyst: Dan Dawson Date: 3/20/2008

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98116490 Instrument: MET09 PE ICP MET09 Begun: 20-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	032008ar	SAMPLE	202043-003	136222	Soil	21-MAR-2008 00:27	1.0	45.05		5000	3:FE=293393	
033	032008ar	CCV				21-MAR-2008 00:31	1.0	1.0		5000	11	
034	032008ar	X				21-MAR-2008 00:36	1.0	1.0	2	5000		
035	032008ar	CCB				21-MAR-2008 00:39	1.0	1.0		5000		
036	032008ar	SAMPLE	202043-004	136222	Soil	21-MAR-2008 00:43	1.0	44.64		5000	2:FE=332762	
037	032008ar	SAMPLE	202043-005	136222	Soil	21-MAR-2008 00:47	1.0	48.08		5000	3:FE=291614	
038	032008ar	SAMPLE	202043-006	136222	Soil	21-MAR-2008 00:53	1.0	46.30	1	5000	3:FE=364851	
039	032008ar	SAMPLE	202043-007	136222	Soil	21-MAR-2008 00:57	1.0	44.64		5000	3:FE=397902	
040	032008ar	SAMPLE	202043-008	136222	Soil	21-MAR-2008 01:01	1.0	45.45		5000	3:FE=322783	
041	032008ar	SAMPLE	202043-009	136222	Soil	21-MAR-2008 01:05	1.0	45.05		5000	4:FE=314382	
042	032008ar	SAMPLE	201865-001	136222	Soil	21-MAR-2008 01:09	1.0	45.45		5000	4:FE=289131	
043	032008ar	SAMPLE	201865-002	136222	Soil	21-MAR-2008 01:12	1.0	47.17		5000	3:CA=419940	
044	032008ar	SAMPLE	201865-003	136222	Soil	21-MAR-2008 01:16	1.0	46.30		5000	4:FE=351831	
045	032008ar	SAMPLE	201865-004	136222	Soil	21-MAR-2008 01:20	1.0	44.64		5000	3:FE=342118	
046	032008ar	CCV				21-MAR-2008 01:24	1.0	1.0	1	5000	11	
047	032008ar	X				21-MAR-2008 01:25	1.0	1.0	2	5000	11	
048	032008ar	X				21-MAR-2008 01:30	1.0	1.0	1	5000		
049	032008ar	CCB				21-MAR-2008 01:33	1.0	1.0		5000		
050	032008ar	SAMPLE	201865-005	136222	Soil	21-MAR-2008 01:38	1.0	50.0		5000	4:FE=370322	
051	032008ar	SAMPLE	202005-001	136222	Miscel	21-MAR-2008 01:42	1.0	49.02		5000	1:K=129168	
052	032008ar	SAMPLE	202005-002	136222	Miscel	21-MAR-2008 01:48	1.0	48.54		5000	1:K=122178	
053	032008ar	SAMPLE	202005-003	136222	Miscel	21-MAR-2008 01:55	1.0	46.30		5000	1:K=177290	
054	032008ar	SAMPLE	202026-001	136222	Miscel	21-MAR-2008 02:02	10.0	47.17		5000		
055	032008ar	SAMPLE	202026-002	136222	Miscel	21-MAR-2008 02:07	10.0	46.30		5000		
056	032008ar	?SAMPLE	201857-001	136222		21-MAR-2008 02:11	1.0					
057	032008ar	MSS	202043-001	136222	Soil	21-MAR-2008 02:18	1.0	45.87	3	5000	3:FE=346277	
058	032008ar	SAMPLE	202043-002	136222	Soil	21-MAR-2008 02:22	1.0	46.73	2	5000	3:FE=329549	
059	032008ar	SAMPLE	202043-003	136222	Soil	21-MAR-2008 02:26	1.0	45.05		5000	3:FE=304933	
060	032008ar	X				21-MAR-2008 02:30	1.0	1.0		5000	11	
061	032008ar	CCV				21-MAR-2008 02:31	1.0	1.0		5000	11	
062	032008ar	CCB				21-MAR-2008 02:36	1.0	1.0		5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8719 8=S8351 9=S8385 10=S8386 11=S8614

Analyst: [signature] Date: 3/20/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98116490 Instrument: MET09 PE ICP MET09 Begun: 20-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	032008ar	SAMPLE	202043-004	136222	Soil	21-MAR-2008 02:41	1.0	44.64		5000	2:FE=328630	
064	032008ar	SAMPLE	202043-005	136222	Soil	21-MAR-2008 02:45	1.0	48.08		5000	3:FE=308759	
065	032008ar	SAMPLE	202043-006	136222	Soil	21-MAR-2008 02:50	1.0	46.30		5000	3:FE=378700	
066	032008ar	SAMPLE	202043-007	136222	Soil	21-MAR-2008 02:54	1.0	44.64		5000	3:FE=385167	
067	032008ar	SAMPLE	202043-008	136222	Soil	21-MAR-2008 02:58	1.0	45.45		5000	3:FE=341112	
068	032008ar	SAMPLE	202043-009	136222	Soil	21-MAR-2008 03:02	1.0	45.05		5000	4:FE=305352	
069	032008ar	ICSAB				21-MAR-2008 03:06	1.0	1.0		5000	8 5:AL=512985	
070	032008ar	CCV				21-MAR-2008 03:11	1.0	1.0		5000	11	
071	032008ar	X				21-MAR-2008 03:16	1.0	1.0	1	5000		
072	032008ar	CCB				21-MAR-2008 03:19	1.0	1.0		5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8719 8=S8351 9=S8385 10=S8386 11=S8614

Analyst David Pierce Date: 3/20/2008

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 98116490001
Units : ug/L

Date : 20-MAR-2008 21:30
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032008ar	98116490002	CRIM08	20-MAR-2008 21:34	S8428
L2	032008ar	98116490003	CS100	20-MAR-2008 21:38	S8350
L3	032008ar	98116490004	CS1K	20-MAR-2008 21:42	S8349
L4	032008ar	98116490005	CS10K	20-MAR-2008 21:46	S8393
L5	032008ar	98116490006	CS100K	20-MAR-2008 21:50	S8370

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	21.872	20.680	20.448	20.726		LOR0	0.00000	0.04825		20.931	1.000	0.995	
Arsenic	A	7.9859	8.0293	7.9897	8.1210		LOR0	0.00000	0.12316		8.0315	1.000	0.995	
Barium	A	79.492	73.344	72.793	71.501		LOR0	0.00000	0.01398		74.283	1.000	0.995	
Beryllium	A	3404.8	3279.7	3329.3			LOR0	0.00000	3.00E-4		3338.0	1.000	0.995	
Boron	A	170.92		170.58	172.67		LOR0	0.00000	0.00579		171.39	1.000	0.995	
Cadmium	A	161.84	156.98	154.85	151.31		LOR0	0.00000	0.00661		156.25	1.000	0.995	
Chromium	A	139.41	138.37	135.82	135.38		LOR0	0.00000	0.00739		137.24	1.000	0.995	
Cobalt	A	40.444	41.048	40.962	40.531		LOR0	0.00000	0.02467		40.746	1.000	0.995	
Copper	A	177.78	160.35	157.03	157.54		LOR0	0.00000	0.00635		163.18	1.000	0.995	
Lead	A	29.347	31.744	30.977	30.235		LOR0	0.00000	0.03307		30.576	1.000	0.995	
Manganese	A	472.35	450.31	433.69	418.86		LOR0	0.00000	0.00239		443.80	1.000	0.995	
Molybdenum	A	34.628	33.706	33.149	31.761		LOR0	0.00000	0.03147		33.311	1.000	0.995	
Nickel	A	92.379	69.410	69.791	69.045		LOR0	0.00000	0.01448		75.156	1.000	0.995	
Selenium	A	13.472	11.247	11.202	11.378		LOR0	0.00000	0.08791		11.825	1.000	0.995	
Silver	A	454.87	467.08	464.54	475.51		LOR0	0.00000	0.00211		465.50	1.000	0.995	
Thallium	A	11.445	9.1086	8.9871	8.7039		LOR0	0.00000	0.11485		9.5611	1.000	0.995	
Tin	A	15.015	14.559	15.390	15.561		LOR0	0.00000	0.06427		15.131	1.000	0.995	
Titanium	A	616.19	621.67	597.95	586.39		LOR0	0.00000	0.00171		605.55	1.000	0.995	
Vanadium	A	168.56	165.61	164.06	167.36		LOR0	0.00000	0.00598		166.40	1.000	0.995	
Zinc	A	100.38	57.377	53.081	52.941		LOR0	0.00000	0.01889		65.944	1.000	0.995	
Aluminum	R	0.4960		0.4322	0.4127	0.4236	LOR0	0.00000	2.36146		0.4411	1.000	0.995	
Calcium	R	7.4905		4.4801	4.1179	4.0347	LOR0	0.00000	0.24779		5.0308	1.000	0.995	
Iron	R	2.0663		1.8102	1.7400	1.7164	LOR0	0.00000	0.58252		1.8332	1.000	0.995	
Magnesium	R	0.4271		0.4318	0.4151	0.4166	LOR0	0.00000	2.40074		0.4226	1.000	0.995	
Potassium	R	2.6486		2.5109	2.5086	2.5851	LOR0	0.00000	0.38694		2.5633	1.000	0.995	
Sodium	R	351.03		343.37	321.67	315.59	LOR0	0.00000	0.00317		332.92	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	6	100.0	0	1000	-1	10000	0		
Arsenic	A	5.000	-2	100.0	-1	1000	-2	10000	0		
Barium	A	5.000	11	100.0	3	1000	2	10000	0		
Beryllium	A	2.000	2	100.0	-1	1000	0				
Boron	A	100.0	-1			1000	-1	10000	0		
Cadmium	A	5.000	7	100.0	4	1000	2	10000	0		
Chromium	A	5.000	3	100.0	2	1000	0	10000	0		
Cobalt	A	5.000	0	100.0	1	1000	1	10000	0		
Copper	A	5.000	13	100.0	2	1000	0	10000	0		
Lead	A	3.000	-3	100.0	5	1000	2	10000	0		
Manganese	A	5.000	13	100.0	7	1000	4	10000	0		
Molybdenum	A	5.000	9	100.0	6	1000	4	10000	0		
Nickel	A	5.000	34	100.0	1	1000	1	10000	0		
Selenium	A	5.000	18	100.0	-1	1000	-2	10000	0		
Silver	A	5.000	-4	100.0	-1	1000	-2	2000	0		
Thallium	A	5.000	31	100.0	5	1000	3	10000	0		
Tin	A	40.00	-4	100.0	-6	1000	-1	10000	0		
Titanium	A	10.00	5	100.0	6	1000	2	10000	0		
Vanadium	A	5.000	1	100.0	-1	1000	-2	10000	0		
Zinc	A	20.00	90	100.0	8	1000	0	10000	0		
Aluminum	R	100.0	17			1000	2	10000	-3	100000	0
Calcium	R	200.0	86			1000	11	10000	2	100000	0
Iron	R	100.0	20			1000	5	10000	1	100000	0
Magnesium	R	200.0	3			1000	4	10000	0	100000	0
Potassium	R	500.0	2			1000	-3	10000	-3	100000	0
Sodium	R	500.0	11			1000	9	10000	2	100000	0

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

98116490001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 3/20/2008 9:30:33 PM
Data Type: Reprocessed on 3/20/2008 10:18:59 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	935.3	315.53	33.74%	[0.00]	ug/L
Al 308.215 R	33.8	2.45	7.25%	[0.00]	ug/L
As 188.979	-36.3	9.54	26.25%	[0.00]	ug/L
B 249.677	-949.9	89.62	9.43%	[0.00]	ug/L
Ba 233.527	-49.4	3.49	7.06%	[0.00]	ug/L
Be 313.107	-756.5	121.85	16.11%	[0.00]	ug/L
Ca 315.887 R	236.5	7.76	3.28%	[0.00]	ug/L
Cd 214.440	-110.9	2.10	1.89%	[0.00]	ug/L
Co 228.616	-16.5	2.58	15.65%	[0.00]	ug/L
Cr 267.716	-74.6	54.93	73.64%	[0.00]	ug/L
Cu 324.752	2338.4	50.88	2.18%	[0.00]	ug/L
Fe 238.204 R	59.1	7.54	12.74%	[0.00]	ug/L
K 766.490 R	-852.3	236.92	27.80%	[0.00]	ug/L
Mg 279.077 R	-81.5	3.75	4.61%	[0.00]	ug/L
Mn 257.610	-250.2	49.52	19.79%	[0.00]	ug/L
Mo 202.031	-8.7	4.66	53.38%	[0.00]	ug/L
Na 589.592 R	40508.3	1928.58	4.76%	[0.00]	ug/L
Ni 231.604	601.9	5.41	0.90%	[0.00]	ug/L
Pb 220.353	-253.7	18.27	7.20%	[0.00]	ug/L
Sb 206.836	100.0	28.62	28.61%	[0.00]	ug/L
Se 196.026	6.2	20.92	336.97%	[0.00]	ug/L
Ti 334.940 R	630.0	109.04	17.31%	[0.00]	ug/L
Tl 190.801	-20.3	9.43	46.57%	[0.00]	ug/L
V 292.402	-884.6	63.26	7.15%	[0.00]	ug/L
Zn 206.200	-69.2	4.08	5.89%	[0.00]	ug/L
Sn 189.927	3.0	5.79	194.48%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/20/2008 9:34:39 PM
Data Type: Reprocessed on 3/20/2008 10:19:00 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2478790.7	39988.54	1.61%	100.000	%
Y	166299.0	12022.06	7.23%	100.000	%
Ag 328.068†	2274.3	318.79	14.02%	[5.0]	ug/L
Al 308.215 R†	49.6	8.44	17.02%	[100]	ug/L
As 188.979†	39.9	11.83	29.62%	[5.0]	ug/L
B 249.677†	17092.0	438.57	2.57%	[100]	ug/L
Ba 233.527†	397.5	5.07	1.28%	[5.0]	ug/L
Be 313.107†	6809.7	187.01	2.75%	[2.0]	ug/L
Ca 315.887 R†	1498.1	143.94	9.61%	[200]	ug/L
Cd 214.440†	809.2	6.51	0.80%	[5.0]	ug/L
Co 228.616†	202.2	5.04	2.49%	[5.0]	ug/L
Cr 267.716†	697.1	19.68	2.82%	[5.0]	ug/L
Cu 324.752†	888.9	46.69	5.25%	[5.0]	ug/L
Fe 238.204 R†	206.6	33.28	16.11%	[100]	ug/L
K 766.490 R†	1324.3	224.47	16.95%	[500]	ug/L
Mg 279.077 R†	85.4	6.13	7.17%	[200]	ug/L
Mn 257.610†	2361.8	44.03	1.86%	[5.0]	ug/L
Mo 202.031†	173.1	6.01	3.47%	[5.0]	ug/L
Na 589.592 R†	175515.9	12736.08	7.26%	[500]	ug/L
Ni 231.604†	461.9	14.96	3.24%	[5.0]	ug/L
Pb 220.353†	88.0	9.11	10.35%	[3.0]	ug/L
Sb 206.836†	109.4	9.10	8.32%	[5.0]	ug/L
Se 196.026†	67.4	11.35	16.85%	[5.0]	ug/L
Ti 334.940 R†	6161.9	216.22	3.51%	[10]	ug/L
Tl 190.801†	57.2	6.07	10.61%	[5.0]	ug/L
V 292.402†	842.8	6.04	0.72%	[5.0]	ug/L
Zn 206.200†	2007.5	13.81	0.69%	[20]	ug/L
Sn 189.927†	600.6	7.50	1.25%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/20/2008 9:38:50 PM
Data Type: Reprocessed on 3/20/2008 10:19:01 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2514334.2	42270.59	1.68%	101.434	%
Y	176500.9	2170.68	1.23%	106.135	%
Ag 328.068†	46707.8	839.86	1.80%	[100]	ug/L
As 188.979†	802.9	20.50	2.55%	[100]	ug/L
Ba 233.527†	7334.4	112.40	1.53%	[100]	ug/L
Be 313.107†	327974.9	4403.50	1.34%	[100]	ug/L
Cd 214.440†	15698.3	464.41	2.96%	[100]	ug/L
Co 228.616†	4104.8	68.39	1.67%	[100]	ug/L
Cr 267.716†	13836.9	321.47	2.32%	[100]	ug/L
Cu 324.752†	16035.3	354.33	2.21%	[100]	ug/L
Mn 257.610†	45031.4	960.34	2.13%	[100]	ug/L
Mo 202.031†	3370.6	70.50	2.09%	[100]	ug/L
Ni 231.604†	6941.0	141.65	2.04%	[100]	ug/L
Pb 220.353†	3174.4	32.81	1.03%	[100]	ug/L
Sb 206.836†	2068.0	71.05	3.44%	[100]	ug/L
Se 196.026†	1124.7	26.21	2.33%	[100]	ug/L
Ti 334.940 R†	62166.5	1488.18	2.39%	[100]	ug/L
Tl 190.801†	910.9	27.88	3.06%	[100]	ug/L
V 292.402†	16560.8	379.48	2.29%	[100]	ug/L
Zn 206.200†	5737.7	101.32	1.77%	[100]	ug/L
Sn 189.927†	1455.9	28.47	1.96%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/20/2008 9:42:05 PM
Data Type: Reprocessed on 3/20/2008 10:19:02 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2495742.9	10599.69	0.42%	100.684	%
Y	160544.3	6532.17	4.07%	96.5395	%
Ag 328.068†	464538.8	1009.59	0.22%	[1000]	ug/L
Al 308.215 R†	432.2	14.42	3.34%	[1000]	ug/L
As 188.979†	7989.7	30.05	0.38%	[1000]	ug/L
B 249.677†	170584.3	1078.90	0.63%	[1000]	ug/L
Ba 233.527†	72792.7	798.03	1.10%	[1000]	ug/L
Be 313.107†	3329308.7	18455.95	0.55%	[1000]	ug/L
Ca 315.887 R†	4480.1	195.96	4.37%	[1000]	ug/L
Cd 214.440†	154848.7	1505.42	0.97%	[1000]	ug/L
Co 228.616†	40961.7	351.52	0.86%	[1000]	ug/L
Cr 267.716†	135821.9	1250.35	0.92%	[1000]	ug/L
Cu 324.752†	157030.7	1780.53	1.13%	[1000]	ug/L
Fe 238.204 R†	1810.2	82.80	4.57%	[1000]	ug/L
K 766.490 R†	2510.9	61.64	2.45%	[1000]	ug/L
Mg 279.077 R†	431.8	13.98	3.24%	[1000]	ug/L
Mn 257.610†	433689.4	3406.33	0.79%	[1000]	ug/L
Mo 202.031†	33149.1	90.90	0.27%	[1000]	ug/L
Na 589.592 R†	343369.5	14219.05	4.14%	[1000]	ug/L
Ni 231.604†	69790.9	752.43	1.08%	[1000]	ug/L
Pb 220.353†	30977.2	141.22	0.46%	[1000]	ug/L
Sb 206.836†	20448.2	160.67	0.79%	[1000]	ug/L
Se 196.026†	11202.0	38.43	0.34%	[1000]	ug/L
Ti 334.940 R†	597947.6	4788.36	0.80%	[1000]	ug/L
Tl 190.801†	8987.1	32.55	0.36%	[1000]	ug/L
V 292.402†	164064.1	1549.02	0.94%	[1000]	ug/L
Zn 206.200†	53080.7	674.50	1.27%	[1000]	ug/L
Sn 189.927†	15390.3	59.67	0.39%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 3/20/2008 9:46:21 PM
Data Type: Reprocessed on 3/20/2008 10:19:04 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2500043.3	23287.13	0.93%	100.857	%
Y	167931.6	2923.28	1.74%	100.982	%
Ag 328.068†	951022.7	11917.49	1.25%	[2000]	ug/L
Al 308.215 R†	4127.2	36.52	0.88%	[10000]	ug/L
As 188.979†	81210.0	993.69	1.22%	[10000]	ug/L
B 249.677†	1726735.9	21261.01	1.23%	[10000]	ug/L
Ba 233.527†	715012.9	6120.00	0.86%	[10000]	ug/L
Ca 315.887 R†	41179.3	392.80	0.95%	[10000]	ug/L
Cd 214.440†	1513115.3	8313.85	0.55%	[10000]	ug/L
Co 228.616†	405311.1	3282.44	0.81%	[10000]	ug/L
Cr 267.716†	1353750.5	15406.64	1.14%	[10000]	ug/L
Cu 324.752†	1575424.7	26496.53	1.68%	[10000]	ug/L
Fe 238.204 R†	17400.3	201.87	1.16%	[10000]	ug/L
K 766.490 R†	25086.3	287.16	1.14%	[10000]	ug/L
Mg 279.077 R†	4151.3	3.12	0.08%	[10000]	ug/L
Mn 257.610†	4188606.4	33116.51	0.79%	[10000]	ug/L
Mo 202.031†	317612.2	6007.27	1.89%	[10000]	ug/L
Na 589.592 R†	3216665.6	89309.05	2.78%	[10000]	ug/L
Ni 231.604†	690451.0	6772.48	0.98%	[10000]	ug/L
Pb 220.353†	302346.6	1890.66	0.63%	[10000]	ug/L
Sb 206.836†	207260.2	2516.57	1.21%	[10000]	ug/L
Se 196.026†	113776.3	935.55	0.82%	[10000]	ug/L
Ti 334.940 R†	5863898.3	54304.58	0.93%	[10000]	ug/L
Tl 190.801†	87038.7	1131.50	1.30%	[10000]	ug/L
V 292.402†	1673565.7	17090.63	1.02%	[10000]	ug/L
Zn 206.200†	529408.0	5538.31	1.05%	[10000]	ug/L
Sn 189.927†	155613.0	1745.16	1.12%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 3/20/2008 9:50:42 PM
Data Type: Reprocessed on 3/20/2008 10:19:05 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2255977.0	25207.51	1.12%	91.0112	%
Y	160352.0	3368.36	2.10%	96.4239	%
Al 308.215 Rt	42357.3	320.78	0.76%	[100000]	ug/L
Ca 315.887 Rt	403471.9	3842.09	0.95%	[100000]	ug/L
Fe 238.204 Rt	171643.5	1479.42	0.86%	[100000]	ug/L
K 766.490 Rt	258514.7	3035.87	1.17%	[100000]	ug/L
Mg 279.077 Rt	41655.0	416.97	1.00%	[100000]	ug/L
Na 589.592 Rt	31559393.2	1121292.73	3.55%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	473.3	0.00000	0.999957	
Al 308.215 R	4	Lin Thru 0	0.0	0.4235	0.00000	0.999997	
As 188.979	4	Lin Thru 0	0.0	8.120	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	172.7	0.00000	0.999999	
Ba 233.527	4	Lin Thru 0	0.0	71.51	0.00000	0.999998	
Be 313.107	3	Lin Thru 0	0.0	3329	0.00000	0.999999	
Ca 315.887 R	4	Lin Thru 0	0.0	4.036	0.00000	0.999996	
Cd 214.440	4	Lin Thru 0	0.0	151.3	0.00000	0.999997	
Co 228.616	4	Lin Thru 0	0.0	40.54	0.00000	0.999999	
Cr 267.716	4	Lin Thru 0	0.0	135.4	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	157.5	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	1.717	0.00000	0.999999	
K 766.490 R	4	Lin Thru 0	0.0	2.584	0.00000	0.999996	
Mg 279.077 R	4	Lin Thru 0	0.0	0.4165	0.00000	1.000000	
Mn 257.610	4	Lin Thru 0	0.0	419.0	0.00000	0.999994	
Mo 202.031	4	Lin Thru 0	0.0	31.78	0.00000	0.999990	
Na 589.592 R	4	Lin Thru 0	0.0	315.7	0.00000	0.999998	
Ni 231.604	4	Lin Thru 0	0.0	69.05	0.00000	0.999999	
Pb 220.353	4	Lin Thru 0	0.0	30.24	0.00000	0.999997	
Sb 206.836	4	Lin Thru 0	0.0	20.72	0.00000	0.999999	
Se 196.026	4	Lin Thru 0	0.0	11.38	0.00000	0.999999	
Ti 334.940 R	4	Lin Thru 0	0.0	586.5	0.00000	0.999998	
Tl 190.801	4	Lin Thru 0	0.0	8.707	0.00000	0.999995	
V 292.402	4	Lin Thru 0	0.0	167.3	0.00000	0.999998	
Zn 206.200	4	Lin Thru 0	0.0	52.94	0.00000	0.999998	
Sn 189.927	4	Lin Thru 0	0.0	15.56	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490007 File : 032008ar Time : 20-MAR-2008 21:54
Cal : 98116490001 Caldate : 20-MAR-2008
Standards: S8613

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	20.931	21.030	5000	5074	ug/L	1	10	
Arsenic	A	8.0315	8.4367	5000	5195	ug/L	4	10	
Barium	A	74.283	72.952	5000	5100	ug/L	2	10	
Beryllium	A	3338.0	3380.8	500.0	507.8	ug/L	2	10	
Boron	A	171.39	175.53	5000	5083	ug/L	2	10	
Cadmium	A	156.25	154.16	5000	5093	ug/L	2	10	
Chromium	A	137.24	133.99	5000	4949	ug/L	-1	10	
Cobalt	A	40.746	40.269	5000	4956	ug/L	-1	10	
Copper	A	163.18	156.15	5000	4956	ug/L	-1	10	
Lead	A	30.576	30.584	5000	5057	ug/L	1	10	
Manganese	A	443.80	421.77	5000	5033	ug/L	1	10	
Molybdenum	A	33.311	32.222	5000	5070	ug/L	1	10	
Nickel	A	75.156	68.435	5000	4955	ug/L	-1	10	
Selenium	A	11.825	11.637	5000	5115	ug/L	2	10	
Silver	A	465.50	477.88	1000	1010	ug/L	1	10	
Thallium	A	9.5611	8.7500	5000	5025	ug/L	0	10	
Tin	A	15.131	15.803	5000	5078	ug/L	2	10	
Titanium	A	605.55	592.38	5000	5050	ug/L	1	10	
Vanadium	A	166.40	165.62	5000	4949	ug/L	-1	10	
Zinc	A	65.944	52.603	5000	4968	ug/L	-1	10	
Aluminum	R	0.4411	0.4178	20000	19730	ug/L	-1	10	
Calcium	R	5.0308	4.1146	20000	20390	ug/L	2	10	
Iron	R	1.8332	1.7819	20000	20760	ug/L	4	10	
Magnesium	R	0.4226	0.4299	20000	20640	ug/L	3	10	
Potassium	R	2.5633	2.5327	20000	19600	ug/L	-2	10	
Sodium	R	332.92	322.27	20000	20420	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2374532	-4.21

98116490007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490008 File : 032008ar Time : 20-MAR-2008 22:11
Cal : 98116490001 Caldate : 20-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	ND	5.000	0.2225	ug/L	
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	[8.742]	100.0	7.698	ug/L	!ib
Cadmium	A	ND	5.000	0.2182	ug/L	
Chromium	A	ND	5.000	0.4895	ug/L	
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	ND	5.000	0.8281	ug/L	
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	ND	500.0	34.37	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2475619	-0.13

=warning ib=instrument blank

98116490008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490009 File : 032008ar Time : 20-MAR-2008 22:16
Cal : 98116490001 Caldate : 20-MAR-2008
Standards: S8719

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	9.163	5.000	ug/L	!a+
Arsenic	A	[3.055]	5.000	ug/L	!a+
Barium	A	[-0.1752]	5.000	ug/L	
Beryllium	A	[0.2776]	2.000	ug/L	!a+
Boron	A	138.5	100.0	ug/L	!a+
Cadmium	A	[-1.230]	5.000	ug/L	!a-
Cobalt	A	[3.480]	5.000	ug/L	!a+
Lead	A	[0.4770]	3.000	ug/L	
Molybdenum	A	[3.202]	5.000	ug/L	!a+
Selenium	A	[1.932]	5.000	ug/L	
Silver	A	[0.8752]	5.000	ug/L	
Thallium	A	[1.563]	5.000	ug/L	
Tin	A	[-18.71]	40.00	ug/L	!a-
Zinc	A	[4.606]	20.00	ug/L	!a+
Potassium	R	[135.6]	500.0	ug/L	!a+
Sodium	R	[56.11]	500.0	ug/L	!a+

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19710	ug/L	99
Copper	A	20000	20910	ug/L	105
Manganese	A	20000	19030	ug/L	95
Nickel	A	20000	19020	ug/L	95
Titanium	A	20000	20270	ug/L	101
Vanadium	A	20000	20170	ug/L	101
Aluminum	R	500000	498000	ug/L	100
Calcium	R	500000	498600	ug/L	100
Iron	R	200000	196500	ug/L	98
Magnesium	R	500000	517600	ug/L	104

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2207519	-10.94

=warning +=high bias -=low bias a=ICSA

98116490009

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490010 File : 032008ar Time : 20-MAR-2008 22:26
Cal : 98116490001 Caldate : 20-MAR-2008
Standards: S8351

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	563.7	ug/L	13	20	
Arsenic	A	500.0	546.0	ug/L	9	20	
Barium	A	500.0	538.8	ug/L	8	20	
Beryllium	A	500.0	538.0	ug/L	8	20	
Cadmium	A	1000	1021	ug/L	2	20	
Chromium	A	500.0	515.0	ug/L	3	20	
Cobalt	A	500.0	483.8	ug/L	-3	20	
Copper	A	500.0	549.6	ug/L	10	20	
Lead	A	1000	939.7	ug/L	-6	20	
Manganese	A	500.0	534.0	ug/L	7	20	
Molybdenum	A	500.0	541.2	ug/L	8	20	
Nickel	A	1000	974.4	ug/L	-3	20	
Selenium	A	500.0	510.6	ug/L	2	20	
Silver	A	1000	1086	ug/L	9	20	
Thallium	A	500.0	434.9	ug/L	-13	20	
Titanium	A	20000	20630	ug/L	3		
Vanadium	A	500.0	532.2	ug/L	6	20	
Zinc	A	1000	996.1	ug/L	0	20	
Aluminum	R	500000	529500	ug/L	6		
Calcium	R	500000	524700	ug/L	5		
Iron	R	200000	202400	ug/L	1		
Magnesium	R	500000	533600	ug/L	7		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2092410	-15.59

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98116490019
Cal : 98116490001
Standards: S8351

File : 032008ar
Caldate : 20-MAR-2008

IDF : 1.0
Time : 20-MAR-2008 22:54

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	526.9	ug/L	5	20	
Arsenic	A	500.0	524.0	ug/L	5	20	
Barium	A	500.0	517.4	ug/L	3	20	
Beryllium	A	500.0	522.6	ug/L	5	20	
Cadmium	A	1000	1003	ug/L	0	20	
Chromium	A	500.0	500.1	ug/L	0	20	
Cobalt	A	500.0	464.7	ug/L	-7	20	
Copper	A	500.0	524.6	ug/L	5	20	
Lead	A	1000	892.5	ug/L	-11	20	
Manganese	A	500.0	526.6	ug/L	5	20	
Molybdenum	A	500.0	520.7	ug/L	4	20	
Nickel	A	1000	937.1	ug/L	-6	20	
Selenium	A	500.0	491.5	ug/L	-2	20	
Silver	A	1000	1055	ug/L	5	20	
Thallium	A	500.0	432.1	ug/L	-14	20	
Titanium	A	20000	19970	ug/L	0		
Vanadium	A	500.0	514.4	ug/L	3	20	
Zinc	A	1000	960.9	ug/L	-4	20	
Aluminum	R	500000	488400	ug/L	-2		
Calcium	R	500000	489100	ug/L	-2		
Iron	R	200000	191600	ug/L	-4		
Magnesium	R	500000	496500	ug/L	-1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2225406	-10.22

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98116490020
Cal : 98116490001
Standards: S8614

File : 032008ar
Caldate : 20-MAR-2008

IDF : 1.0
Time : 20-MAR-2008 22:59

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.931	20.884	5000	5039	ug/L	1	10	
Arsenic	A	8.0315	8.1642	5000	5027	ug/L	1	10	
Barium	A	74.283	72.803	5000	5090	ug/L	2	10	
Beryllium	A	3338.0	3380.2	500.0	507.7	ug/L	2	10	
Boron	A	171.39	175.30	5000	5077	ug/L	2	10	
Cadmium	A	156.25	157.87	5000	5215	ug/L	4	10	
Chromium	A	137.24	133.83	5000	4943	ug/L	-1	10	
Cobalt	A	40.746	40.066	5000	4931	ug/L	-1	10	
Copper	A	163.18	152.87	5000	4852	ug/L	-3	10	
Lead	A	30.576	29.157	5000	4821	ug/L	-4	10	
Manganese	A	443.80	424.73	5000	5068	ug/L	1	10	
Molybdenum	A	33.311	31.061	5000	4888	ug/L	-2	10	
Nickel	A	75.156	68.724	5000	4976	ug/L	0	10	
Selenium	A	11.825	11.381	5000	5002	ug/L	0	10	
Silver	A	465.50	470.76	1000	994.6	ug/L	-1	10	
Thallium	A	9.5611	8.4977	5000	4880	ug/L	-2	10	
Tin	A	15.131	15.428	5000	4958	ug/L	-1	10	
Titanium	A	605.55	589.93	5000	5029	ug/L	1	10	
Vanadium	A	166.40	165.55	5000	4947	ug/L	-1	10	
Zinc	A	65.944	52.999	5000	5005	ug/L	0	10	
Aluminum	R	0.4411	0.4212	20000	19890	ug/L	-1	10	
Calcium	R	5.0308	4.2204	20000	20920	ug/L	5	10	
Iron	R	1.8332	1.8531	20000	21590	ug/L	8	10	
Magnesium	R	0.4226	0.4334	20000	20810	ug/L	4	10	
Potassium	R	2.5633	2.5798	20000	19960	ug/L	0	10	
Sodium	R	332.92	331.04	20000	20970	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2447070	-1.28

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490022 File : 032008ar Time : 20-MAR-2008 23:06
Cal : 98116490001 Caldate : 20-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	ND	5.000	0.2225	ug/L	
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	[10.86]	100.0	7.698	ug/L	!ib
Cadmium	A	ND	5.000	0.2182	ug/L	
Chromium	A	ND	5.000	0.4895	ug/L	
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	ND	5.000	0.8281	ug/L	
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	ND	500.0	34.37	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2488376	0.39

!=warning ib=instrument blank

98116490022

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490033 File : 032008ar Time : 21-MAR-2008 00:31
Cal : 98116490001 Caldate : 20-MAR-2008
Standards: S8614

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.931	20.723	5000	5000	ug/L	0	10	
Arsenic	A	8.0315	8.1578	5000	5023	ug/L	0	10	
Barium	A	74.283	72.870	5000	5095	ug/L	2	10	
Beryllium	A	3338.0	3367.5	500.0	505.8	ug/L	1	10	
Boron	A	171.39	174.93	5000	5066	ug/L	1	10	
Cadmium	A	156.25	155.25	5000	5129	ug/L	3	10	
Chromium	A	137.24	134.05	5000	4951	ug/L	-1	10	
Cobalt	A	40.746	40.061	5000	4930	ug/L	-1	10	
Copper	A	163.18	154.86	5000	4915	ug/L	-2	10	
Lead	A	30.576	29.296	5000	4844	ug/L	-3	10	
Manganese	A	443.80	423.85	5000	5058	ug/L	1	10	
Molybdenum	A	33.311	31.515	5000	4959	ug/L	-1	10	
Nickel	A	75.156	68.380	5000	4951	ug/L	-1	10	
Selenium	A	11.825	11.335	5000	4982	ug/L	0	10	
Silver	A	465.50	476.05	1000	1006	ug/L	1	10	
Thallium	A	9.5611	8.5494	5000	4910	ug/L	-2	10	
Tin	A	15.131	15.389	5000	4945	ug/L	-1	10	
Titanium	A	605.55	593.79	5000	5062	ug/L	1	10	
Vanadium	A	166.40	165.99	5000	4960	ug/L	-1	10	
Zinc	A	65.944	52.405	5000	4949	ug/L	-1	10	
Aluminum	R	0.4411	0.4295	20000	20280	ug/L	1	10	
Calcium	R	5.0308	4.1916	20000	20770	ug/L	4	10	
Iron	R	1.8332	1.8775	20000	21870	ug/L	9	10	
Magnesium	R	0.4226	0.4349	20000	20880	ug/L	4	10	
Potassium	R	2.5633	2.6378	20000	20410	ug/L	2	10	
Sodium	R	332.92	340.57	20000	21580	ug/L	8	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2388100	-3.66

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490035 File : 032008ar Time : 21-MAR-2008 00:39
Cal : 98116490001 Caldate : 20-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	ND	5.000	0.2225	ug/L	
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	[9.252]	100.0	7.698	ug/L	!ib
Cadmium	A	[0.3430]	5.000	0.2182	ug/L	!ib
Chromium	A	ND	5.000	0.4895	ug/L	
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	ND	5.000	0.8281	ug/L	
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	ND	500.0	34.37	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2446272	-1.31

!=warning ib=instrument blank

98116490035

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490046 File : 032008ar Time : 21-MAR-2008 01:24
Cal : 98116490001 Caldate : 20-MAR-2008
Standards: S8614

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.931	21.585	5000	5208	ug/L	4	10	
Arsenic	A	8.0315	8.3887	5000	5166	ug/L	3	10	
Barium	A	74.283	75.163	5000	5255	ug/L	5	10	
Beryllium	A	3338.0	3469.3	500.0	521.1	ug/L	4	10	
Boron	A	171.39	179.94	5000	5211	ug/L	4	10	
Cadmium	A	156.25	160.70	5000	5309	ug/L	6	10	
Chromium	A	137.24	138.12	5000	5101	ug/L	2	10	
Cobalt	A	40.746	41.169	5000	5067	ug/L	1	10	
Copper	A	163.18	158.98	5000	5046	ug/L	1	10	
Lead	A	30.576	30.209	5000	4994	ug/L	0	10	
Manganese	A	443.80	438.18	5000	5229	ug/L	5	10	
Molybdenum	A	33.311	32.913	5000	5179	ug/L	4	10	
Nickel	A	75.156	70.389	5000	5097	ug/L	2	10	
Selenium	A	11.825	11.692	5000	5139	ug/L	3	10	
Silver	A	465.50	488.00	1000	1031	ug/L	3	10	
Thallium	A	9.5611	8.8120	5000	5060	ug/L	1	10	
Tin	A	15.131	15.987	5000	5138	ug/L	3	10	
Titanium	A	605.55	612.11	5000	5218	ug/L	4	10	
Vanadium	A	166.40	171.15	5000	5114	ug/L	2	10	
Zinc	A	65.944	53.903	5000	5091	ug/L	2	10	
Aluminum	R	0.4411	0.4363	20000	20610	ug/L	3	10	
Calcium	R	5.0308	4.2775	20000	21200	ug/L	6	10	
Iron	R	1.8332	1.9264	20000	22440	ug/L	**12**	10	c+ ***
Magnesium	R	0.4226	0.4385	20000	21060	ug/L	5	10	
Potassium	R	2.5633	2.6910	20000	20830	ug/L	4	10	
Sodium	R	332.92	345.04	20000	21860	ug/L	9	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2311197	-6.76

+=high bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490049 File : 032008ar Time : 21-MAR-2008 01:33
Cal : 98116490001 Caldate : 20-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	[0.3251]	5.000	0.2225	ug/L	!ib
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	[12.54]	100.0	7.698	ug/L	!ib
Cadmium	A	[0.5186]	5.000	0.2182	ug/L	!ib
Chromium	A	ND	5.000	0.4895	ug/L	
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	[1.076]	5.000	0.8281	ug/L	!ib
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	ND	500.0	34.37	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2498285	0.79

!=warning ib=instrument blank

98116490049

00049

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490061 File : 032008ar Time : 21-MAR-2008 02:31
Cal : 98116490001 Caldate : 20-MAR-2008
Standards: S8614

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.931	20.962	5000	5058	ug/L	1	10	
Arsenic	A	8.0315	8.1531	5000	5021	ug/L	0	10	
Barium	A	74.283	72.431	5000	5064	ug/L	1	10	
Beryllium	A	3338.0	3351.4	500.0	503.4	ug/L	1	10	
Boron	A	171.39	176.17	5000	5102	ug/L	2	10	
Cadmium	A	156.25	156.87	5000	5183	ug/L	4	10	
Chromium	A	137.24	133.42	5000	4928	ug/L	-1	10	
Cobalt	A	40.746	39.722	5000	4889	ug/L	-2	10	
Copper	A	163.18	152.31	5000	4834	ug/L	-3	10	
Lead	A	30.576	29.206	5000	4829	ug/L	-3	10	
Manganese	A	443.80	423.71	5000	5056	ug/L	1	10	
Molybdenum	A	33.311	32.970	5000	5188	ug/L	4	10	
Nickel	A	75.156	68.099	5000	4931	ug/L	-1	10	
Selenium	A	11.825	11.410	5000	5015	ug/L	0	10	
Silver	A	465.50	471.90	1000	997.0	ug/L	0	10	
Thallium	A	9.5611	8.6007	5000	4939	ug/L	-1	10	
Tin	A	15.131	15.449	5000	4965	ug/L	-1	10	
Titanium	A	605.55	589.28	5000	5024	ug/L	0	10	
Vanadium	A	166.40	165.19	5000	4936	ug/L	-1	10	
Zinc	A	65.944	52.191	5000	4929	ug/L	-1	10	
Aluminum	R	0.4411	0.4285	20000	20240	ug/L	1	10	
Calcium	R	5.0308	4.2363	20000	20990	ug/L	5	10	
Iron	R	1.8332	1.8706	20000	21790	ug/L	9	10	
Magnesium	R	0.4226	0.4383	20000	21050	ug/L	5	10	
Potassium	R	2.5633	2.5452	20000	19700	ug/L	-2	10	
Sodium	R	332.92	328.18	20000	20790	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2390397	-3.57

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490062 File : 032008ar Time : 21-MAR-2008 02:36
Cal : 98116490001 Caldate : 20-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	[3.492]	5.000	2.147	ug/L	!ib
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	[1.093]	5.000	0.2225	ug/L	!ib
Beryllium	A	[0.1294]	2.000	0.08461	ug/L	!ib
Boron	A	[17.71]	100.0	7.698	ug/L	!ib
Cadmium	A	[1.178]	5.000	0.2182	ug/L	!ib
Chromium	A	[0.9469]	5.000	0.4895	ug/L	!ib
Cobalt	A	[1.037]	5.000	0.6067	ug/L	!ib
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	[1.433]	5.000	0.8777	ug/L	!ib
Molybdenum	A	[3.304]	5.000	0.8281	ug/L	!ib
Nickel	A	[1.316]	5.000	0.7319	ug/L	!ib
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	[2.656]	10.00	2.036	ug/L	!ib
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	[31.23]	100.0	21.23	ug/L	!ib
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	[42.92]	100.0	12.17	ug/L	!ib
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	[106.2]	500.0	79.42	ug/L	!ib
Sodium	R	[186.5]	500.0	34.37	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2510630	1.28

!=warning ib=instrument blank

98116490062

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490069 File : 032008ar Time : 21-MAR-2008 03:06
Cal : 98116490001 Caldate : 20-MAR-2008
Standards: S8351

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	532.5	ug/L	7	20	
Arsenic	A	500.0	530.8	ug/L	6	20	
Barium	A	500.0	522.3	ug/L	4	20	
Beryllium	A	500.0	521.8	ug/L	4	20	
Cadmium	A	1000	986.7	ug/L	-1	20	
Chromium	A	500.0	500.6	ug/L	0	20	
Cobalt	A	500.0	463.3	ug/L	-7	20	
Copper	A	500.0	532.2	ug/L	6	20	
Lead	A	1000	904.2	ug/L	-10	20	
Manganese	A	500.0	519.5	ug/L	4	20	
Molybdenum	A	500.0	524.6	ug/L	5	20	
Nickel	A	1000	936.3	ug/L	-6	20	
Selenium	A	500.0	486.6	ug/L	-3	20	
Silver	A	1000	1066	ug/L	7	20	
Thallium	A	500.0	429.8	ug/L	-14	20	
Titanium	A	20000	20360	ug/L	2		
Vanadium	A	500.0	517.1	ug/L	3	20	
Zinc	A	1000	956.4	ug/L	-4	20	
Aluminum	R	500000	513000	ug/L	3		
Calcium	R	500000	489900	ug/L	-2		
Iron	R	200000	198200	ug/L	-1		
Magnesium	R	500000	511800	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2119503	-14.49

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490070 File : 032008ar Time : 21-MAR-2008 03:11
Cal : 98116490001 Caldate : 20-MAR-2008
Standards: S8614

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	20.931	21.031	5000	5074	ug/L	1	10	
Arsenic	A	8.0315	8.1629	5000	5027	ug/L	1	10	
Barium	A	74.283	73.478	5000	5137	ug/L	3	10	
Beryllium	A	3338.0	3393.7	500.0	509.7	ug/L	2	10	
Boron	A	171.39	176.03	5000	5098	ug/L	2	10	
Cadmium	A	156.25	156.95	5000	5185	ug/L	4	10	
Chromium	A	137.24	135.30	5000	4997	ug/L	0	10	
Cobalt	A	40.746	40.181	5000	4945	ug/L	-1	10	
Copper	A	163.18	155.90	5000	4948	ug/L	-1	10	
Lead	A	30.576	29.283	5000	4841	ug/L	-3	10	
Manganese	A	443.80	428.33	5000	5111	ug/L	2	10	
Molybdenum	A	33.311	31.887	5000	5018	ug/L	0	10	
Nickel	A	75.156	68.810	5000	4982	ug/L	0	10	
Selenium	A	11.825	11.314	5000	4973	ug/L	-1	10	
Silver	A	465.50	480.88	1000	1016	ug/L	2	10	
Thallium	A	9.5611	8.5770	5000	4926	ug/L	-1	10	
Tin	A	15.131	15.554	5000	4998	ug/L	0	10	
Titanium	A	605.55	600.21	5000	5117	ug/L	2	10	
Vanadium	A	166.40	167.89	5000	5017	ug/L	0	10	
Zinc	A	65.944	52.430	5000	4952	ug/L	-1	10	
Aluminum	R	0.4411	0.4356	20000	20570	ug/L	3	10	
Calcium	R	5.0308	4.2387	20000	21010	ug/L	5	10	
Iron	R	1.8332	1.8730	20000	21820	ug/L	9	10	
Magnesium	R	0.4226	0.4389	20000	21070	ug/L	5	10	
Potassium	R	2.5633	2.5840	20000	20000	ug/L	0	10	
Sodium	R	332.92	334.72	20000	21210	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2324178	-6.24

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98116490072 File : 032008ar Time : 21-MAR-2008 03:19
Cal : 98116490001 Caldate : 20-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	[0.5776]	5.000	0.2225	ug/L	!ib
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	[9.499]	100.0	7.698	ug/L	!ib
Cadmium	A	[0.6990]	5.000	0.2182	ug/L	!ib
Chromium	A	[0.5775]	5.000	0.4895	ug/L	!ib
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	[1.258]	5.000	0.8281	ug/L	!ib
Nickel	A	[0.8284]	5.000	0.7319	ug/L	!ib
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	[90.93]	500.0	34.37	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2478791	2455673	-0.93

!=warning ib=instrument blank

98116490072

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 48116072 Instrument: MET04 HydraAA HG Analyzer Begun: 20-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	136197	ICALBLK	STD01REP1				20-MAR-2008 14:32	1.0	1.0									
002	136197	ICAL	STD02REP1				20-MAR-2008 14:34	1.0	1.0									
003	136197	ICAL	STD03REP1				20-MAR-2008 14:36	1.0	1.0									
004	136197	ICAL	STD04REP1				20-MAR-2008 14:38	1.0	1.0									
005	136197	ICAL	STD05REP1				20-MAR-2008 14:41	1.0	1.0									
006	136197	ICAL	STD06REP1				20-MAR-2008 14:43	1.0	1.0									
007	136197	ICV					20-MAR-2008 14:45	1.0	1.0	2	5.000	48116072001	5.140		ug/L	103		
008	136197	ICB					20-MAR-2008 14:47	1.0	1.0			48116072001	ND	0.20	ug/L			
009	136197	BLANK	QC433774		136197	Soil	20-MAR-2008 14:49	1.0	100.0			48116072001	ND	0.020	mg/Kg			u
010	136197	BS	QC433775		136197	Soil	20-MAR-2008 14:51	1.0	100.0		0.5000	48116072001	0.5470	0.020	mg/Kg	109		u
011	136197	BSD	QC433776		136197	Soil	20-MAR-2008 14:53	1.0	100.0		0.5000	48116072001	0.5220	0.020	mg/Kg	104	5	u
012	136197	MSS	202043-001		136197	Soil	20-MAR-2008 14:56	1.0	76.92			48116072001	0.023	0.020	mg/Kg			u
013	136197	SER	QC433777	202043-001	136197	Soil	20-MAR-2008 14:58	5.0	76.92			48116072001	ND	0.077	mg/Kg		--	u
014	136197	MS	QC433778	202043-001	136197	Soil	20-MAR-2008 15:00	1.0	83.33		0.4167	48116072001	0.4642	0.020	mg/Kg	106		u
015	136197	MSD	QC433779	202043-001	136197	Soil	20-MAR-2008 15:02	1.0	104.2		0.5208	48116072001	0.5792	0.021	mg/Kg	107	1	u
016	136197	SAMPLE	202019-001		136197	Soil	20-MAR-2008 15:04	1.0	83.33			48116072001	0.31	0.020	mg/Kg			u
017	136197	SAMPLE	202019-002		136197	Soil	20-MAR-2008 15:06	1.0	74.63			48116072001	0.50	0.020	mg/Kg			u
018	136197	SAMPLE	202019-003		136197	Soil	20-MAR-2008 15:09	1.0	75.76			48116072001	0.076	0.020	mg/Kg			u
019	136197	CCV					20-MAR-2008 15:11	1.0	1.0	3	2.500	48116072001	2.690		ug/L	108		
020	136197	CCB					20-MAR-2008 15:13	1.0	1.0			48116072001	ND	0.20	ug/L			
021	136197	SAMPLE	202019-004		136197	Soil	20-MAR-2008 15:15	1.0	87.72			48116072001	0.37	0.020	mg/Kg			u
022	136197	SAMPLE	202019-005		136197	Soil	20-MAR-2008 15:17	1.0	87.72			48116072001	0.38	0.020	mg/Kg			u
023	136197	SAMPLE	202019-006		136197	Soil	20-MAR-2008 15:20	1.0	79.37			48116072001	0.12	0.020	mg/Kg			u
024	136197	SAMPLE	202019-007		136197	Soil	20-MAR-2008 15:22	1.0	80.65			48116072001	0.073	0.020	mg/Kg			u
025	136197	SAMPLE	202019-008		136197	Soil	20-MAR-2008 15:24	1.0	96.15			48116072001	0.23	0.020	mg/Kg			u
026	136197	SAMPLE	202019-009		136197	Soil	20-MAR-2008 15:26	1.0	92.59			48116072001	0.062	0.020	mg/Kg			u
027	136197	SAMPLE	202019-010		136197	Soil	20-MAR-2008 15:29	1.0	76.92			48116072001	0.066	0.020	mg/Kg			u
028	136197	SAMPLE	202019-011		136197	Soil	20-MAR-2008 15:31	1.0	102.0			48116072001	0.035	0.020	mg/Kg			u
029	136197	SAMPLE	202043-002		136197	Soil	20-MAR-2008 15:33	1.0	86.21			48116072001	0.0077 J	0.020	mg/Kg			u
030	136197	SAMPLE	202043-003		136197	Soil	20-MAR-2008 15:36	1.0	92.59			48116072001	ND	0.020	mg/Kg			u
031	136197	CCV					20-MAR-2008 15:38	1.0	1.0	4	5.000	48116072001	5.430		ug/L	109		
032	136197	CCB					20-MAR-2008 15:40	1.0	1.0			48116072001	ND	0.20	ug/L			
033	136197	SAMPLE	202043-004		136197	Soil	20-MAR-2008 15:42	1.0	104.2			48116072001	ND	0.021	mg/Kg			u
034	136197	SAMPLE	202043-005		136197	Soil	20-MAR-2008 15:44	1.0	104.2			48116072001	0.074	0.021	mg/Kg			u
035	136197	SAMPLE	202043-006		136197	Soil	20-MAR-2008 15:46	1.0	72.46			48116072001	0.0084 J	0.020	mg/Kg			u
036	136197	SAMPLE	202043-007		136197	Soil	20-MAR-2008 15:49	1.0	80.65			48116072001	0.011 J	0.020	mg/Kg			u
037	136197	SAMPLE	202043-008		136197	Soil	20-MAR-2008 15:51	1.0	92.59			48116072001	0.077	0.020	mg/Kg			u
038	136197	SAMPLE	202043-009		136197	Soil	20-MAR-2008 15:53	1.0	90.91			48116072001	0.20	0.020	mg/Kg			u
039	136197	CCV					20-MAR-2008 15:55	1.0	1.0	5	7.500	48116072001	8.080		ug/L	108		
040	136197	CCB					20-MAR-2008 15:58	1.0	1.0			48116072001	ND	0.20	ug/L			

Stds used: 1=S8704 2=S8706 3=S8707 4=S8708 5=S8709
Flags used: u=use

Analyst: _____ Date: 3/20/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 48116072001
Units : ug/L

Date : 20-MAR-2008 14:32
X Axis : R

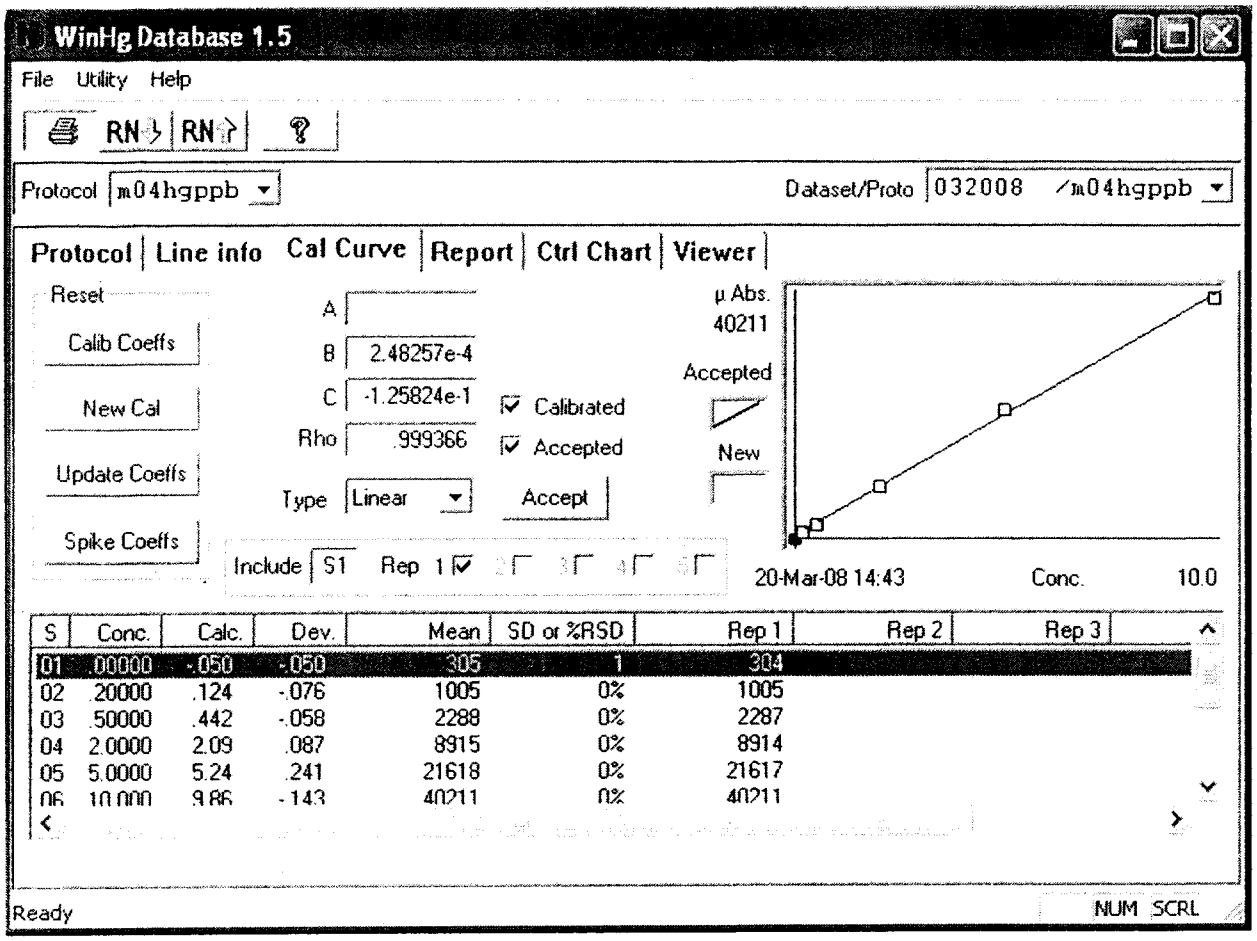
Reviewer : ---
Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	136197	48116072002	STD02REP1	20-MAR-2008 14:34	S8704 (500X)
L2	136197	48116072003	STD03REP1	20-MAR-2008 14:36	S8704 (200X)
L3	136197	48116072004	STD04REP1	20-MAR-2008 14:38	S8704 (50X)
L4	136197	48116072005	STD05REP1	20-MAR-2008 14:41	S8704 (20X)
L5	136197	48116072006	STD06REP1	20-MAR-2008 14:43	S8704 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	5025.0	4574.0	4457.0	4323.4	4021.1	LINR	-0.1258	2.48E-4		4480.1	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Mercury	0.200	-38	0.500	-12	2.000	4	5.000	5	10.00	-1

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression


WinHg Database 1.5
File Utility Help
RN RN
Protocol m04hgppb
Dataset/Proto 032008 /m04hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 2.48257e-4
C -1.25824e-1
Rho .999366
Type Linear
Calibrated
Accepted
Accept
µ Abs.
40211
Accepted
New
Include S1 Rep 1
20-Mar-08 14:43
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.050 -.050 305 1 304
02 .20000 .124 -.076 1005 0% 1005
03 .50000 .442 -.058 2288 0% 2287
04 2.0000 2.09 .087 8915 0% 8914
05 5.0000 5.24 .241 21618 0% 21617
06 10.000 9.86 -.143 40211 0% 40211
Ready
NUM SCRL

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		14:32:11 20 Mar 08		HG	
Hg	.000	ppb	304						
		Bkgd 1	17789623						=
									=
*** Standard: 2 Rep: 1				Seq: 2		14:34:20 20 Mar 08		HG	
Hg	.200	ppb	1005						
		Bkgd 1	17785919						=
									=
*** Standard: 3 Rep: 1				Seq: 3		14:36:24 20 Mar 08		HG	
Hg	.500	ppb	2287						
		Bkgd 1	17784395						=
									=
*** Standard: 4 Rep: 1				Seq: 4		14:38:58 20 Mar 08		HG	
Hg	2.00	ppb	8914						
		Bkgd 1	17781772						=
									=
*** Standard: 5 Rep: 1				Seq: 5		14:41:05 20 Mar 08		HG	
Hg	5.00	ppb	21617						
		Bkgd 1	17777666						=
									=
*** Standard: 6 Rep: 1				Seq: 6		14:43:10 20 Mar 08		HG	
Hg	10.0	ppb	40211						
		Bkgd 1	17774758						=
									=
*** Check Standard: 2			Ck2s8706	Seq: 7		14:45:25 20 Mar 08		HG	
Line	Flag		Intensities						
Hg			21221						
		Bkgd 1	17773035						=
									=
*** Check Standard: 1			Ck1ICB	Seq: 8		14:47:39 20 Mar 08		HG	
Line	Flag		Intensities						
Hg			164						
		Bkgd 1	17773226						=
									=
*** Sample ID: qc433774				Seq: 9		14:49:42 20 Mar 08		HG	
			136197,1						
Hg	-.093	ppb	134						
		Bkgd 1	17775339						=
									=

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 48116072 Instrument: MET04 HydraAA HG Analyzer Begun: 20-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	136197	ICALBLK	STD01REP1				20-MAR-2008 14:32	1.0	1.0									
002	136197	ICAL	STD02REP1				20-MAR-2008 14:34	1.0	1.0									
003	136197	ICAL	STD03REP1				20-MAR-2008 14:36	1.0	1.0									
004	136197	ICAL	STD04REP1				20-MAR-2008 14:38	1.0	1.0									
005	136197	ICAL	STD05REP1				20-MAR-2008 14:41	1.0	1.0									
006	136197	ICAL	STD06REP1				20-MAR-2008 14:43	1.0	1.0									
007	136197	ICV					20-MAR-2008 14:45	1.0	1.0	2	5.000	48116072001	5.140		ug/L	103		
008	136197	ICB					20-MAR-2008 14:47	1.0	1.0			48116072001	ND	0.20	ug/L			
009	136197	BLANK	QC433774		136197	Soil	20-MAR-2008 14:49	1.0	100.0			48116072001	ND	0.020	mg/Kg			u
010	136197	BS	QC433775		136197	Soil	20-MAR-2008 14:51	1.0	100.0		0.5000	48116072001	0.5470	0.020	mg/Kg	109		u
011	136197	BSD	QC433776		136197	Soil	20-MAR-2008 14:53	1.0	100.0		0.5000	48116072001	0.5220	0.020	mg/Kg	104	5	u
012	136197	MSS	202043-001		136197	Soil	20-MAR-2008 14:56	1.0	76.92			48116072001	0.023	0.020	mg/Kg			u
013	136197	SER	QC433777	202043-001	136197	Soil	20-MAR-2008 14:58	5.0	76.92			48116072001	ND	0.077	mg/Kg		--	u
014	136197	MS	QC433778	202043-001	136197	Soil	20-MAR-2008 15:00	1.0	83.33		0.4167	48116072001	0.4642	0.020	mg/Kg	106		u
015	136197	MSD	QC433779	202043-001	136197	Soil	20-MAR-2008 15:02	1.0	104.2		0.5208	48116072001	0.5792	0.021	mg/Kg	107	1	u
016	136197	SAMPLE	202019-001		136197	Soil	20-MAR-2008 15:04	1.0	83.33			48116072001	0.31	0.020	mg/Kg			u
017	136197	SAMPLE	202019-002		136197	Soil	20-MAR-2008 15:06	1.0	74.63			48116072001	0.50	0.020	mg/Kg			u
018	136197	SAMPLE	202019-003		136197	Soil	20-MAR-2008 15:09	1.0	75.76			48116072001	0.076	0.020	mg/Kg			u
019	136197	CCV					20-MAR-2008 15:11	1.0	1.0	3	2.500	48116072001	2.690		ug/L	108		
020	136197	CCB					20-MAR-2008 15:13	1.0	1.0			48116072001	ND	0.20	ug/L			
021	136197	SAMPLE	202019-004		136197	Soil	20-MAR-2008 15:15	1.0	87.72			48116072001	0.37	0.020	mg/Kg			u
022	136197	SAMPLE	202019-005		136197	Soil	20-MAR-2008 15:17	1.0	87.72			48116072001	0.38	0.020	mg/Kg			u
023	136197	SAMPLE	202019-006		136197	Soil	20-MAR-2008 15:20	1.0	79.37			48116072001	0.12	0.020	mg/Kg			u
024	136197	SAMPLE	202019-007		136197	Soil	20-MAR-2008 15:22	1.0	80.65			48116072001	0.073	0.020	mg/Kg			u
025	136197	SAMPLE	202019-008		136197	Soil	20-MAR-2008 15:24	1.0	96.15			48116072001	0.23	0.020	mg/Kg			u
026	136197	SAMPLE	202019-009		136197	Soil	20-MAR-2008 15:26	1.0	92.59			48116072001	0.062	0.020	mg/Kg			u
027	136197	SAMPLE	202019-010		136197	Soil	20-MAR-2008 15:29	1.0	76.92			48116072001	0.066	0.020	mg/Kg			u
028	136197	SAMPLE	202019-011		136197	Soil	20-MAR-2008 15:31	1.0	102.0			48116072001	0.035	0.020	mg/Kg			u
029	136197	SAMPLE	202043-002		136197	Soil	20-MAR-2008 15:33	1.0	86.21			48116072001	0.0077 J	0.020	mg/Kg			u
030	136197	SAMPLE	202043-003		136197	Soil	20-MAR-2008 15:36	1.0	92.59			48116072001	ND	0.020	mg/Kg			u
031	136197	CCV					20-MAR-2008 15:38	1.0	1.0	4	5.000	48116072001	5.430		ug/L	109		
032	136197	CCB					20-MAR-2008 15:40	1.0	1.0			48116072001	ND	0.20	ug/L			
033	136197	SAMPLE	202043-004		136197	Soil	20-MAR-2008 15:42	1.0	104.2			48116072001	ND	0.021	mg/Kg			u
034	136197	SAMPLE	202043-005		136197	Soil	20-MAR-2008 15:44	1.0	104.2			48116072001	0.074	0.021	mg/Kg			u
035	136197	SAMPLE	202043-006		136197	Soil	20-MAR-2008 15:46	1.0	72.46			48116072001	0.0084 J	0.020	mg/Kg			u
036	136197	SAMPLE	202043-007		136197	Soil	20-MAR-2008 15:49	1.0	80.65			48116072001	0.011 J	0.020	mg/Kg			u
037	136197	SAMPLE	202043-008		136197	Soil	20-MAR-2008 15:51	1.0	92.59			48116072001	0.077	0.020	mg/Kg			u
038	136197	SAMPLE	202043-009		136197	Soil	20-MAR-2008 15:53	1.0	90.91			48116072001	0.20	0.020	mg/Kg			u
039	136197	CCV					20-MAR-2008 15:55	1.0	1.0	5	7.500	48116072001	8.080		ug/L	108		
040	136197	CCB					20-MAR-2008 15:58	1.0	1.0			48116072001	ND	0.20	ug/L			

Stds used: 1=S8704 2=S8706 3=S8707 4=S8708 5=S8709
Flags used: u=use

Analyst: _____ Date: 3/20/08

Curtis & Tompkins Laboratories Sample Preparation Summary 20-MAR-2008 20:02

Batch Number : 136222
Date Extracted: 20-MAR-2008
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S8385
Spike #2 ID : S8386
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
201865-001			URS Corporation	Soil	1.1	g	50	45.454545	1					PB		
201865-002			URS Corporation	Soil	1.06	g	50	47.169811	1					PB		
201865-003			URS Corporation	Soil	1.08	g	50	46.296296	1					PB		
201865-004			URS Corporation	Soil	1.12	g	50	44.642857	1					PB		
201865-005			URS Corporation	Soil	1	g	50	50.000000	1					PB		
202005-001			Richard Magarian	Miscell.	1.02	g	50	49.019608	1					CD		
202005-002			Richard Magarian	Miscell.	1.03	g	50	48.543689	1					CD		
202005-003			Richard Magarian	Miscell.	1.08	g	50	46.296296	1					CD		
202026-001			ConocoPhillips Company	Miscell.	1.06	g	50	47.169811	1					V		
202026-002			ConocoPhillips Company	Miscell.	1.08	g	50	46.296296	1					V		
202043-001			Mactec, Inc.	Soil	1.09	g	50	45.871560	1					T26/ICP		
202043-002			Mactec, Inc.	Soil	1.07	g	50	46.728972	1					T26/ICP		
202043-003			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
202043-004			Mactec, Inc.	Soil	1.12	g	50	44.642857	1					T26/ICP		
202043-005			Mactec, Inc.	Soil	1.04	g	50	48.076923	1					T26/ICP		
202043-006			Mactec, Inc.	Soil	1.08	g	50	46.296296	1					T26/ICP		
202043-007			Mactec, Inc.	Soil	1.12	g	50	44.642857	1					T26/ICP		
202043-008			Mactec, Inc.	Soil	1.1	g	50	45.454545	1					T26/ICP		
202043-009			Mactec, Inc.	Soil	1.11	g	50	45.045045	1					T26/ICP		
QC433883	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC433884	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC433885	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC433886	MS	of 202043-001		Soil	1.06	g	50	47.169811	1		.5	.5		ICAP		
QC433887	MSD	of 202043-001		Soil	1.11	g	50	45.045045	1		.5	.5		ICAP		
QC433888	SER	of 202043-001		Soil	1.09	g	50	45.871560	1					ICAP		
QC433889	PDS	of 202043-001		Soil	1.09	g	50	45.871560	1					ICAP		

SAMPLE 201857-001 WAS MISSING IN LIMS SYSTEM
Report canceled

9555

Prep Chemist: Michael C Brock III 3/20/08 Reviewed By: [signature] Date: 3/20/2008

Relinquished By: Michael C Brock III 3/20/08 Received By: [signature] Date: 3/21/2008

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 136222
Date Digested: 3/20/08
Digested by: MCB III

Digestion Method
☒ EPA 3050b
☐ _____

BK 2624
Page 97

	Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLANK	Ø	50	Y	
	BS	↓	↓	↓	
	BSD	↓	↓	↓	
	MS-043-001 G	1.06			
5	MSD-043-001	1.11			
	202043-001	1.09			
	-002	1.07			
	-003	1.11			
	-004	1.12			
10	-005	1.04			
	-006	1.08			
	-007	1.12			
	-008	1.10			
	-009	1.11			
15	201865-001 A	1.10			
	-002	1.06			
	-003	1.08			
	-004	1.12			
	-005	1.00			
20	202005-001	1.02			
	-002	1.03			
	-003	1.08			
	202026-001 A,B,C	1.06			202026-001 IS A COMP OF 3 JARS 2G EA
	-002	1.08			↓ ↓ ↓ ↓ ↓
	201857-001	1.00	↓	↓	

TIME 7:30PM

	Reagent ID or LIMS #	Initials / Date
Class-A digestion tubes, lot#	4514-19426-261-216	MCB III 3/20/08
digestion temperature (90 - 95 degrees C)	95°C	
.5 mL of spike solution was added to all spikes	S8385	
	S8386	
1:1 HNO3	E27029 JT BAKER	
concentrated HNO3	B02058	
3mL 30% hydrogen peroxide	E31A08	
concentrated HCl	E40060	
☒ filtered thru' Whatman # 541	H11206696	
Relinquished to ICP group		

Michael C Orecki III 3/20/08
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/20/08
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 20-MAR-2008 12:53

Batch Number : 136197
Date Extracted: 20-MAR-2008
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S8704
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
202019-001			Wil Chee Planning	Soil	.6	g	50	83.333333	1					RCRA/HG		
202019-002			Wil Chee Planning	Soil	.67	g	50	74.626866	1					RCRA/HG		
202019-003			Wil Chee Planning	Soil	.66	g	50	75.757576	1					RCRA/HG		
202019-004			Wil Chee Planning	Soil	.57	g	50	87.719298	1					RCRA/HG		
202019-005			Wil Chee Planning	Soil	.57	g	50	87.719298	1					RCRA/HG		
202019-006			Wil Chee Planning	Soil	.63.	g	50	79.365079	1					RCRA/HG		
202019-007			Wil Chee Planning	Soil	.62	g	50	80.645161	1					RCRA/HG		
202019-008			Wil Chee Planning	Soil	.52	g	50	96.153846	1					RCRA/HG		
202019-009			Wil Chee Planning	Soil	.54	g	50	92.592593	1					RCRA/HG		
202019-010			Wil Chee Planning	Soil	.65	g	50	76.923077	1					RCRA/HG		
202019-011			Wil Chee Planning	Soil	.49	g	50	102.040816	1					RCRA/HG		
202043-001			Mactec, Inc.	Soil	.65	g	50	76.923077	1					T26/HG		MSS
202043-002			Mactec, Inc.	Soil	.58	g	50	86.206897	1					T26/HG		
202043-003			Mactec, Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
202043-004			Mactec, Inc.	Soil	.48	g	50	104.166667	1					T26/HG		
202043-005			Mactec, Inc.	Soil	.48	g	50	104.166667	1					T26/HG		
202043-006			Mactec, Inc.	Soil	.69	g	50	72.463768	1					T26/HG		
202043-007			Mactec, Inc.	Soil	.62	g	50	80.645161	1					T26/HG		
202043-008			Mactec, Inc.	Soil	.54	g	50	92.592593	1					T26/HG		
202043-009			Mactec, Inc.	Soil	.55	g	50	90.909091	1					T26/HG		
QC433774	BLANK			Soil	.5	g	50	100.000000	1					HG		
QC433775	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC433776	BSD			Soil	.5	g	50	100.000000	1		2.5			HG		
QC433777	SER	of 202043-001		Soil	.65	g	50	76.923077	1					HG		
QC433778	MS	of 202043-001		Soil	.6	g	50	83.333333	1		2.5			HG		
QC433779	MSD	of 202043-001		Soil	.48	g	50	104.166667	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 3/24/08

Relinquished By: _____ Received By: _____ Date: 3/20/08

0055

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 136197
Date Digested: 3/20/08

Digestion Method
☒ EPA 7471A
☐ _____

BK 2680
Page 10

Sample #	container ID	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
202019-001	G	0.60	50.0	Y	
02		0.67			
03		0.66			
04		0.57			
05		0.57			
06		0.63			
07		0.62			
08		0.52			
09		0.54			
10		0.65			
11		0.49			
202043-001	N	0.65			MSS
02	G	0.58			
03		0.51			
04		0.48			
05		0.48			
06		0.61			
07		0.62			
08		0.54			
09		0.55			
MB QC433774		0.50			
BS 75					
BSD 76					
MS 78		0.60			
MSD 79		0.48			

Reagent ID/ LIMS# / Time	Initials / Date
Digestion Tubes, Lot # CN071207	
2.5 mL of spike standard was added to all spikes SS704	JXM 32008
ICAL Source LIMS S# ↓	
ICV / CCV LIMS S# SS706107108109	
Digestion Temperature (degrees C) 95°C	
Digestion Started at (time) 12:45	
Aqua Regia Acids (HNO3+ HCl) AR032008	
5% $KMnO_4$ K031408	
NaCl.hydroxylamine hydrochloride H_2 031108	
Stannous Chloride $SnCl_2$ 032008	
Digestion Completd at (time) 13:15	
☒ filtered thru' 0.45 um syringe filter (lot #) P/CN2466	↓

3/20/08
Prep Chemist / Date

Continued from page _____
Continued on page _____

CW 3-20-08
Reviewed by / Date

Curtis & Tompkins, Ltd.

ICAP
RAW DATA

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98116490 Instrument: MET09 PE ICP MET09 Begun: 20-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	032008ar	ICALBLK				20-MAR-2008 21:30	1.0	1.0					
002	032008ar	ICAL	CRIM08			20-MAR-2008 21:34	1.0	1.0				1	
003	032008ar	ICAL	CS100			20-MAR-2008 21:38	1.0	1.0				2	
004	032008ar	ICAL	CS1K			20-MAR-2008 21:42	1.0	1.0				3	
005	032008ar	ICAL	CS10K			20-MAR-2008 21:46	1.0	1.0				4	
006	032008ar	ICAL	CS100K			20-MAR-2008 21:50	1.0	1.0				5	
007	032008ar	ICV				20-MAR-2008 21:54	1.0	1.0			5000	6	
008	032008ar	ICB				20-MAR-2008 22:11	1.0	1.0			5000		
009	032008ar	ICSA				20-MAR-2008 22:16	1.0	1.0			5000	7	10:MG=517640
010	032008ar	ICSAB				20-MAR-2008 22:26	1.0	1.0			5000	8	5:MG=533585
011	032008ar	BLANK	QC433694	136178	Soil	20-MAR-2008 22:31	1.0	50.0	2		5000		
012	032008ar	BS	QC433695	136178	Soil	20-MAR-2008 22:35	1.0	50.0			5000		
013	032008ar	BSD	QC433696	136178	Soil	20-MAR-2008 22:38	1.0	50.0			5000		
014	032008ar	MSS	202024-001	136178	Soil	20-MAR-2008 22:41	1.0	45.05	3		5000		3:FE=1822760
015	032008ar	MS	QC433697	136178	Soil	20-MAR-2008 22:44	1.0	46.30		4	5000		4:FE=1878339
016	032008ar	MSD	QC433698	136178	Soil	20-MAR-2008 22:46	1.0	48.08		6	5000		3:FE=1567663
017	032008ar	SER	QC433699	136178	Soil	20-MAR-2008 22:48	5.0	45.05		7	5000		1:FE=490109
018	032008ar	PDS	QC433700	136178	Soil	20-MAR-2008 22:52	1.0	45.05		2	5000	9 10	3:FE=1765683
019	032008ar	ICSAB				20-MAR-2008 22:54	1.0	1.0			5000	8	5:MG=496479
020	032008ar	CCV				20-MAR-2008 22:59	1.0	1.0			5000	11	
021	032008ar	X				20-MAR-2008 23:03	1.0						
022	032008ar	CCB				20-MAR-2008 23:06	1.0	1.0			5000		
023	032008ar	BLANK	QC433883	136222	Soil	20-MAR-2008 23:54	1.0	50.0			5000		
024	032008ar	BS	QC433884	136222	Soil	20-MAR-2008 23:59	1.0	50.0			5000		
025	032008ar	BSD	QC433885	136222	Soil	21-MAR-2008 00:03	1.0	50.0			5000		
026	032008ar	MSS	202043-001	136222	Soil	21-MAR-2008 00:07	1.0	45.87	3		5000		3:FE=351039
027	032008ar	MS	QC433886	136222	Soil	21-MAR-2008 00:10	1.0	47.17		2	5000		3:FE=325271
028	032008ar	MSD	QC433887	136222	Soil	21-MAR-2008 00:13	1.0	45.05	1	5	5000		4:FE=383031
029	032008ar	SER	QC433888	136222	Soil	21-MAR-2008 00:16	5.0	45.87	1	4	5000		
030	032008ar	PDS	QC433889	136222	Soil	21-MAR-2008 00:20	1.0	45.87		6	5000	9 10	3:FE=343279
031	032008ar	SAMPLE	202043-002	136222	Soil	21-MAR-2008 00:23	1.0	46.73	1		5000		3:FE=339898

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8719 8=S8351 9=S8385 10=S8386 11=S8614

Analyst: Dan Dunn Date: 3/20/2008

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98116490 Instrument: MET09 PE ICP MET09 Begun: 20-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used >LR
032	032008ar	SAMPLE	202043-003	136222	Soil	21-MAR-2008 00:27	1.0	45.05		5000	3:FE=293393
033	032008ar	CCV				21-MAR-2008 00:31	1.0	1.0		5000	11
034	032008ar	X				21-MAR-2008 00:36	1.0	1.0	2	5000	
035	032008ar	CCB				21-MAR-2008 00:39	1.0	1.0		5000	
036	032008ar	SAMPLE	202043-004	136222	Soil	21-MAR-2008 00:43	1.0	44.64		5000	2:FE=332762
037	032008ar	SAMPLE	202043-005	136222	Soil	21-MAR-2008 00:47	1.0	48.08		5000	3:FE=291614
038	032008ar	SAMPLE	202043-006	136222	Soil	21-MAR-2008 00:53	1.0	46.30	1	5000	3:FE=364851
039	032008ar	SAMPLE	202043-007	136222	Soil	21-MAR-2008 00:57	1.0	44.64		5000	3:FE=397902
040	032008ar	SAMPLE	202043-008	136222	Soil	21-MAR-2008 01:01	1.0	45.45		5000	3:FE=322783
041	032008ar	SAMPLE	202043-009	136222	Soil	21-MAR-2008 01:05	1.0	45.05		5000	4:FE=314382
042	032008ar	SAMPLE	201865-001	136222	Soil	21-MAR-2008 01:09	1.0	45.45		5000	4:FE=289131
043	032008ar	SAMPLE	201865-002	136222	Soil	21-MAR-2008 01:12	1.0	47.17		5000	3:CA=419940
044	032008ar	SAMPLE	201865-003	136222	Soil	21-MAR-2008 01:16	1.0	46.30		5000	4:FE=351831
045	032008ar	SAMPLE	201865-004	136222	Soil	21-MAR-2008 01:20	1.0	44.64		5000	3:FE=342118
046	032008ar	CCV				21-MAR-2008 01:24	1.0	1.0	1	5000	11
047	032008ar	X				21-MAR-2008 01:25	1.0	1.0	2	5000	11
048	032008ar	X				21-MAR-2008 01:30	1.0	1.0	1	5000	
049	032008ar	CCB				21-MAR-2008 01:33	1.0	1.0		5000	
050	032008ar	SAMPLE	201865-005	136222	Soil	21-MAR-2008 01:38	1.0	50.0		5000	4:FE=370322
051	032008ar	SAMPLE	202005-001	136222	Miscel	21-MAR-2008 01:42	1.0	49.02		5000	1:K=129168
052	032008ar	SAMPLE	202005-002	136222	Miscel	21-MAR-2008 01:48	1.0	48.54		5000	1:K=122178
053	032008ar	SAMPLE	202005-003	136222	Miscel	21-MAR-2008 01:55	1.0	46.30		5000	1:K=177290
054	032008ar	SAMPLE	202026-001	136222	Miscel	21-MAR-2008 02:02	10.0	47.17		5000	
055	032008ar	SAMPLE	202026-002	136222	Miscel	21-MAR-2008 02:07	10.0	46.30		5000	
056	032008ar	?SAMPLE	201857-001	136222		21-MAR-2008 02:11	1.0				
057	032008ar	MSS	202043-001	136222	Soil	21-MAR-2008 02:18	1.0	45.87	3	5000	3:FE=346277
058	032008ar	SAMPLE	202043-002	136222	Soil	21-MAR-2008 02:22	1.0	46.73	2	5000	3:FE=329549
059	032008ar	SAMPLE	202043-003	136222	Soil	21-MAR-2008 02:26	1.0	45.05		5000	3:FE=304933
060	032008ar	X				21-MAR-2008 02:30	1.0	1.0		5000	11
061	032008ar	CCV				21-MAR-2008 02:31	1.0	1.0		5000	11
062	032008ar	CCB				21-MAR-2008 02:36	1.0	1.0		5000	

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8719 8=S8351 9=S8385 10=S8386 11=S8614

Analyst: [signature] Date: 3/20/2008

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98116490 Instrument: MET09 PE ICP MET09 Begun: 20-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	032008ar	SAMPLE	202043-004	136222	Soil	21-MAR-2008 02:41	1.0	44.64		5000	2:FE=328630	
064	032008ar	SAMPLE	202043-005	136222	Soil	21-MAR-2008 02:45	1.0	48.08		5000	3:FE=308759	
065	032008ar	SAMPLE	202043-006	136222	Soil	21-MAR-2008 02:50	1.0	46.30		5000	3:FE=378700	
066	032008ar	SAMPLE	202043-007	136222	Soil	21-MAR-2008 02:54	1.0	44.64		5000	3:FE=385167	
067	032008ar	SAMPLE	202043-008	136222	Soil	21-MAR-2008 02:58	1.0	45.45		5000	3:FE=341112	
068	032008ar	SAMPLE	202043-009	136222	Soil	21-MAR-2008 03:02	1.0	45.05		5000	4:FE=305352	
069	032008ar	ICSAB				21-MAR-2008 03:06	1.0	1.0		5000	8	5:AL=512985
070	032008ar	CCV				21-MAR-2008 03:11	1.0	1.0		5000	11	
071	032008ar	X				21-MAR-2008 03:16	1.0	1.0	1	5000		
072	032008ar	CCB				21-MAR-2008 03:19	1.0	1.0		5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8613 7=S8719 8=S8351 9=S8385 10=S8386 11=S8614

Analyst David Pierce Date: 3/20/2008

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-001	Client ID	: 1065EX307[6.0]
Seqnum	: 98116490026	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 00:07
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.09 g --> 50.0 ml = 45.87 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.70				0.50		!<a+ u
Arsenic	A	1.2				**0.26**		!<a+ u **y**
Barium	A	68				0.25		u
Beryllium	A	0.19				0.10		!<a+ u
Cadmium	A	0.20 J				0.25		!<a- !>ib u
Chromium	A	63				0.25		u
Cobalt	A	8.4				0.25		!<a+ u
Copper	A	18				**0.26**		u **y**
Lead	A	17				**0.17**		u **y**
Molybdenum	A	ND				0.25		!<a+ u
Nickel	A	46				0.25		u
Selenium	A	ND				0.50		u
Silver	A	ND				0.25		u
Thallium	A	ND			98116490057	0.50		u
Vanadium	A	39				0.25		u
Zinc	A	60				1.0	0.20	!<a+ u

ISTD (ICAL 002)	Ch	ICAL Abund	MSS Abund	%Drift
Yttrium	A	2478791	2460731	-0.73

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-001	Client ID	: 1065EX307[6.0]
Seqnum	: 98116490057	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 02:18
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.09 g --> 50.0 ml = 45.87 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.28 J				0.50		!<a+ !>ib
Arsenic	A	1.3				**0.26**		!<a+ **y**
Barium	A	67				0.25		!<ib !>ib
Beryllium	A	0.19				0.10		!<a+ !>ib
Cadmium	A	0.19 J				0.25		!<a- !<ib !>ib
Chromium	A	61				0.25		!>ib
Cobalt	A	8.2				0.25		!<a+ !>ib
Copper	A	18				**0.26**		**y**
Lead	A	16				**0.17**		**y**
Molybdenum	A	ND				0.25		!<a+ !<ib !>ib
Nickel	A	45				0.25		!>ib
Selenium	A	ND				0.50		
Silver	A	ND				0.25		
Thallium	A	ND			98116490026	0.50		
Vanadium	A	38				0.25		
Zinc	A	59				1.0	0.20	!<a+

ISTD (ICAL 002)	Ch	ICAL Abund	MSS Abund	%Drift
Yttrium	A	2478791	2448380	-1.23

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank y=RL raised

98116490057

00869

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-002	Client ID	: 1065EX308[6.0]
Seqnum	: 98116490031	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 00:23
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.07 g --> 50.0 ml = 46.73 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.50				0.50		!<a+ r **b***
Arsenic	A	0.64				**0.27**		!<a+ u **y**
Barium	A	61				0.25		u
Beryllium	A	0.23				0.10		!<a+ u
Cadmium	A	0.15 J				0.25		!<a- !>ib u
Chromium	A	70				0.25		u
Cobalt	A	8.7				0.25		!<a+ u
Copper	A	8.7				**0.27**		u **y**
Lead	A	14				**0.17**		u **y**
Molybdenum	A	ND				0.25		!<a+ u
Nickel	A	44				0.25		u
Selenium	A	ND				0.50		u
Silver	A	ND				0.25		u
Thallium	A	ND			98116490058	0.50		u
Vanadium	A	45				0.25		u
Zinc	A	24				1.0	0.20	!<a+ u

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2444713	-1.37

!=warning +=high bias -=low bias <=opening >=closing a=ICSA b=noncompliant ib=instrument blank r=RSD out u=use y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-002	Client ID	: 1065EX308[6.0]
Seqnum	: 98116490058	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 02:22
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.07 g --> 50.0 ml = 46.73 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.56				0.50		!<a+ !>ib u
Arsenic	A	0.52				**0.27**		!<a+ r **y b***
Barium	A	63				0.25		!<ib !>ib
Beryllium	A	0.23				0.10		!<a+ !>ib r **b***
Cadmium	A	0.16 J				0.25		!<a- !<ib !>ib
Chromium	A	73				0.25		!>ib
Cobalt	A	9.0				0.25		!<a+ !>ib
Copper	A	8.9				**0.27**		**y**
Lead	A	15				**0.17**		**y**
Molybdenum	A	ND				0.25		!<a+ !<ib !>ib
Nickel	A	45				0.25		!>ib
Selenium	A	ND				0.50		
Silver	A	ND				0.25		
Thallium	A	ND			98116490031	0.50		
Vanadium	A	47				0.25		
Zinc	A	25				1.0	0.20	!<a+

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2318800	-6.45

!=warning +=high bias -=low bias <=opening >=closing a=ICSA b=noncompliant ib=instrument blank r=RSD out u=use y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-003	Client ID	: 1065EX309[6.5]
Seqnum	: 98116490032	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 00:27
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.11 g --> 50.0 ml = 45.05 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.37 J				0.50		!<a+ u
Arsenic	A	0.64				**0.26**		!<a+ u **y**
Barium	A	38				0.25		u
Beryllium	A	0.14				0.10		!<a+ u
Cadmium	A	0.12 J				0.25		!<a- !>ib u
Chromium	A	66				0.25		u
Cobalt	A	6.4				0.25		!<a+ u
Copper	A	5.6				**0.26**		u **y**
Lead	A	1.2				**0.17**		u **y**
Molybdenum	A	ND				0.25		!<a+ u
Nickel	A	42				0.25		u
Selenium	A	ND				0.50		u
Silver	A	ND				0.25		u
Thallium	A	ND			98116490059	0.50		u
Vanadium	A	36				0.25		u
Zinc	A	20				1.0	0.20	!<a+ u

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2489886	0.45

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

98116490032

: 00072

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-003	Client ID	: 1065EX309[6.5]
Seqnum	: 98116490059	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 02:26
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.11 g --> 50.0 ml = 45.05 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.38 J				0.50		!<a+ !>ib
Arsenic	A	0.66				**0.26**		!<a+ **y**
Barium	A	38				0.25		!<ib !>ib
Beryllium	A	0.14				0.10		!<a+ !>ib
Cadmium	A	0.12 J				0.25		!<a- !<ib !>ib
Chromium	A	66				0.25		!>ib
Cobalt	A	6.3				0.25		!<a+ !>ib
Copper	A	5.6				**0.26**		**y**
Lead	A	1.1				**0.17**		**y**
Molybdenum	A	ND				0.25		!<a+ !<ib !>ib
Nickel	A	42				0.25		!>ib
Selenium	A	ND				0.50		
Silver	A	ND				0.25		
Thallium	A	ND			98116490032	0.50		
Vanadium	A	36				0.25		
Zinc	A	20				1.0	0.20	!<a+

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2467970	-0.44

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank y=RL raised

98116490059

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-004	Client ID	: 1065EX310[7.0]
Seqnum	: 98116490036	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 00:43
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.12 g --> 50.0 ml = 44.64 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.34 J				0.50		!<a+
Arsenic	A	ND				**0.26**		!<a+ **y**
Barium	A	34				0.25		!>ib
Beryllium	A	0.17				0.10		!<a+
Cadmium	A	0.20 J				0.25		!<a- !<ib !>ib
Chromium	A	52				0.25		
Cobalt	A	6.6				0.25		!<a+
Copper	A	5.1				**0.26**		**y**
Lead	A	0.96				**0.17**		**y**
Molybdenum	A	ND				0.25		!<a+ !>ib
Nickel	A	40				0.25		
Selenium	A	ND				0.50		
Silver	A	ND				0.25		
Thallium	A	ND			98116490063	0.50		
Vanadium	A	32				0.25		
Zinc	A	19				1.0	0.20	!<a+

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2482633	0.16

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-004	Client ID	: 1065EX310[7.0]
Seqnum	: 98116490063	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 02:41
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.12 g --> 50.0 ml = 44.64 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.33 J				0.50		!<a+ !<ib u
Arsenic	A	ND				**0.26**		!<a+ u **y**
Barium	A	34				0.25		!<ib !>ib u
Beryllium	A	0.17				0.10		!<a+ !<ib u
Cadmium	A	0.20 J				0.25		!<a- !<ib !>ib u
Chromium	A	52				0.25		!<ib !>ib u
Cobalt	A	6.6				0.25		!<a+ !<ib u
Copper	A	5.1				**0.26**		u **y**
Lead	A	0.93				**0.17**		u **y**
Molybdenum	A	ND				0.25		!<a+ !<ib !>ib u
Nickel	A	40				0.25		!<ib !>ib u
Selenium	A	ND				0.50		u
Silver	A	ND				0.25		u
Thallium	A	ND			98116490036	0.50		u
Vanadium	A	32				0.25		u
Zinc	A	19				1.0	0.20	!<a+ u

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2503475	1.00

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

98116490063

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-005	Client ID	: 1065EX311[8.5]
Seqnum	: 98116490037	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 00:47
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.04 g --> 50.0 ml = 48.08 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.37 J				0.50		!<a+
Arsenic	A	1.7				**0.28**		!<a+ **y**
Barium	A	59				0.25		!>ib
Beryllium	A	0.16				0.10		!<a+
Cadmium	A	0.22 J				0.25		!<a- !<ib !>ib
Chromium	A	61				0.25		
Cobalt	A	5.8				0.25		!<a+
Copper	A	9.8				**0.28**		**y**
Lead	A	210				**0.18**		**y**
Molybdenum	A	ND				0.25		!<a+ !>ib
Nickel	A	37				0.25		
Selenium	A	ND				0.50		
Silver	A	ND				0.25		
Thallium	A	ND			98116490064	0.50		
Vanadium	A	35				0.25		
Zinc	A	170				1.0	0.20	!<a+

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2519723	1.65

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-005	Client ID	: 1065EX311[8.5]
Seqnum	: 98116490064	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 02:45
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.04 g --> 50.0 ml = 48.08 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.32 J				0.50		!<a+ !<ib u
Arsenic	A	1.7				**0.28**		!<a+ u **y**
Barium	A	58				0.25		!<ib !>ib u
Beryllium	A	0.16				0.10		!<a+ !<ib u
Cadmium	A	0.24 J				0.25		!<a- !<ib !>ib u
Chromium	A	61				0.25		!<ib !>ib u
Cobalt	A	5.8				0.25		!<a+ !<ib u
Copper	A	9.7				**0.28**		u **y**
Lead	A	200				**0.18**		u **y**
Molybdenum	A	ND				0.25		!<a+ !<ib !>ib u
Nickel	A	37				0.25		!<ib !>ib u
Selenium	A	ND				0.50		u
Silver	A	ND				0.25		u
Thallium	A	ND			98116490037	0.50		u
Vanadium	A	35				0.25		u
Zinc	A	170				1.0	0.20	!<a+ u

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2471600	-0.29

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-006	Client ID	: DUP031908
Seqnum	: 98116490038	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 00:53
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.08 g --> 50.0 ml = 46.30 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.51				0.50		!<a+
Arsenic	A	0.55				**0.27**		!<a+ r **y b***
Barium	A	57				0.25		!>ib
Beryllium	A	0.18				0.10		!<a+
Cadmium	A	0.18 J				0.25		!<a- !<ib !>ib
Chromium	A	86				0.25		
Cobalt	A	7.5				0.25		!<a+
Copper	A	5.9				**0.27**		**y**
Lead	A	6.4				**0.17**		**y**
Molybdenum	A	ND				0.25		!<a+ !>ib
Nickel	A	54				0.25		
Selenium	A	ND				0.50		
Silver	A	ND				0.25		
Thallium	A	ND			98116490065	0.50		
Vanadium	A	39				0.25		
Zinc	A	25				1.0	0.20	!<a+

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2475119	-0.15

!=warning +=high bias -=low bias <=opening >=closing a=ICSA b=noncompliant ib=instrument blank r=RSD out y=RL raised

98116490038

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-006	Client ID	: DUP031908
Seqnum	: 98116490065	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 02:50
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.08 g --> 50.0 ml = 46.30 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.50 J				0.50		!<a+ !<ib u
Arsenic	A	0.60				**0.27**		!<a+ u **y**
Barium	A	58				0.25		!<ib !>ib u
Beryllium	A	0.19				0.10		!<a+ !<ib u
Cadmium	A	0.19 J				0.25		!<a- !<ib !>ib u
Chromium	A	87				0.25		!<ib !>ib u
Cobalt	A	7.6				0.25		!<a+ !<ib u
Copper	A	6.0				**0.27**		u **y**
Lead	A	6.4				**0.17**		u **y**
Molybdenum	A	ND				0.25		!<a+ !<ib !>ib u
Nickel	A	55				0.25		!<ib !>ib u
Selenium	A	ND				0.50		u
Silver	A	ND				0.25		u
Thallium	A	ND			98116490038	0.50		u
Vanadium	A	40				0.25		u
Zinc	A	25				1.0	0.20	!<a+ u

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2388724	-3.63

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

98116490065

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-007	Client ID	: 1065EX312[6.0]
Seqnum	: 98116490039	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 00:57
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.12 g --> 50.0 ml = 44.64 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.43 J				0.50		!<a+
Arsenic	A	1.5				**0.26**		!<a+ **y**
Barium	A	44				0.25		!>ib
Beryllium	A	0.17				0.10		!<a+
Cadmium	A	0.20 J				0.25		!<a- !<ib !>ib
Chromium	A	87				0.25		
Cobalt	A	7.6				0.25		!<a+
Copper	A	6.4				**0.26**		**y**
Lead	A	6.2				**0.17**		**y**
Molybdenum	A	ND				0.25		!<a+ !>ib
Nickel	A	50				0.25		
Selenium	A	ND				0.50		
Silver	A	ND				0.25		
Thallium	A	ND			98116490066	0.50		
Vanadium	A	45				0.25		
Zinc	A	24				1.0	0.20	!<a+

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2434291	-1.80

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-007	Client ID	: 1065EX312[6.0]
Seqnum	: 98116490066	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 02:54
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.12 g --> 50.0 ml = 44.64 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.35 J				0.50		!<a+ !<ib u
Arsenic	A	1.4				**0.26**		!<a+ u **y**
Barium	A	43				0.25		!<ib !>ib u
Beryllium	A	0.17				0.10		!<a+ !<ib u
Cadmium	A	0.20 J				0.25		!<a- !<ib !>ib u
Chromium	A	85				0.25		!<ib !>ib u
Cobalt	A	7.4				0.25		!<a+ !<ib u
Copper	A	6.3				**0.26**		u **y**
Lead	A	6.0				**0.17**		u **y**
Molybdenum	A	ND				0.25		!<a+ !<ib !>ib u
Nickel	A	48				0.25		!<ib !>ib u
Selenium	A	ND				0.50		u
Silver	A	ND				0.25		u
Thallium	A	ND			98116490039	0.50		u
Vanadium	A	45				0.25		u
Zinc	A	23				1.0	0.20	!<a+ u

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2445589	-1.34

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-008	Client ID	: 1065EX313[4.5]
Seqnum	: 98116490040	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 01:01
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.10 g --> 50.0 ml = 45.45 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.35 J				0.50		!<a+
Arsenic	A	1.0				**0.26**		!<a+ **y**
Barium	A	61				0.25		!>ib
Beryllium	A	0.16				0.10		!<a+
Cadmium	A	0.27				0.25		!<a- !<ib !>ib
Chromium	A	65				0.25		
Cobalt	A	6.5				0.25		!<a+
Copper	A	16				**0.26**		**y**
Lead	A	36				**0.17**		**y**
Molybdenum	A	ND				0.25		!<a+ !>ib
Nickel	A	41				0.25		
Selenium	A	ND				0.50		
Silver	A	ND				0.25		
Thallium	A	ND			98116490067	0.50		
Vanadium	A	37				0.25		
Zinc	A	100				1.0	0.20	!<a+

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2421088	-2.33

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-008	Client ID	: 1065EX313[4.5]
Seqnum	: 98116490067	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 02:58
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.10 g --> 50.0 ml = 45.45 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.32 J				0.50		!<a+ !<ib u
Arsenic	A	0.96				**0.26**		!<a+ u **y**
Barium	A	61				0.25		!<ib !>ib u
Beryllium	A	0.16				0.10		!<a+ !<ib u
Cadmium	A	0.27				0.25		!<a- !<ib !>ib u
Chromium	A	65				0.25		!<ib !>ib u
Cobalt	A	6.4				0.25		!<a+ !<ib u
Copper	A	17				**0.26**		u **y**
Lead	A	36				**0.17**		u **y**
Molybdenum	A	ND				0.25		!<a+ !<ib !>ib u
Nickel	A	41				0.25		!<ib !>ib u
Selenium	A	ND				0.50		u
Silver	A	ND				0.25		u
Thallium	A	ND			98116490040	0.50		u
Vanadium	A	37				0.25		u
Zinc	A	100				1.0	0.20	!<a+ u

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2404652	-2.99

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-009	Client ID	: 1065EX314[5.5]
Seqnum	: 98116490041	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 01:05
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.11 g --> 50.0 ml = 45.05 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	ND				0.50		!<a+
Arsenic	A	3.5				**0.26**		!<a+ **y**
Barium	A	69				0.25		!>ib
Beryllium	A	0.17				0.10		!<a+
Cadmium	A	0.66				0.25		!<a- !<ib !>ib
Chromium	A	59				0.25		
Cobalt	A	8.0				0.25		!<a+
Copper	A	25				**0.26**		**y**
Lead	A	110				**0.17**		**y**
Molybdenum	A	ND				0.25		!<a+ !>ib
Nickel	A	42				0.25		
Selenium	A	ND				0.50		
Silver	A	0.085 J				0.25		
Thallium	A	ND			98116490068	0.50		
Vanadium	A	38				0.25		
Zinc	A	390				1.0	0.20	!<a+

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2416242	-2.52

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank y=RL raised

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 6010B

Inst	: MET09	Lab ID	: 202043-009	Client ID	: 1065EX314[5.5]
Seqnum	: 98116490068	Matrix	: Soil	Acct	: MACTEC (AMP)
File	: 032008ar	Batch	: 136222	Time	: 21-MAR-2008 03:02
Cal	: 98116490001	Caldate	: 20-MAR-2008		
IDF	: 1.0			Units	: mg/Kg

1.11 g --> 50.0 ml = 45.05 ml/g PDF

Analyte	Ch	Result	Conf	RPD	Conf Run	RL	Blank	Flags
Antimony	A	0.19 J				0.50		!<a+ !<ib u
Arsenic	A	3.2				**0.26**		!<a+ u **y**
Barium	A	67				0.25		!<ib !>ib u
Beryllium	A	0.16				0.10		!<a+ !<ib u
Cadmium	A	0.63				0.25		!<a- !<ib !>ib u
Chromium	A	57				0.25		!<ib !>ib u
Cobalt	A	7.8				0.25		!<a+ !<ib u
Copper	A	25				**0.26**		u **y**
Lead	A	110				**0.17**		u **y**
Molybdenum	A	ND				0.25		!<a+ !<ib !>ib u
Nickel	A	41				0.25		!<ib !>ib u
Selenium	A	ND				0.50		u
Silver	A	0.069 J				0.25		u
Thallium	A	ND			98116490041	0.50		u
Vanadium	A	37				0.25		u
Zinc	A	370				1.0	0.20	!<a+ u

ISTD (ICAL 002)	Ch	ICAL Abund	SAMPLE Abund	%Drift
Yttrium	A	2478791	2433239	-1.84

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

98116490068

CURTIS & TOMPKINS SERIAL DILUTION FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum : 98116490026
File : 032008ar
IDF : 1.0
Lab ID : 202043-001
Matrix : Soil
Batch : 136222
Time : 21-MAR-2008 00:07
Cal : 98116490001
Units : mg/Kg

Type : SER
Inst : MET09
Seqnum : 98116490029
File : 032008ar
IDF : 5.0
Lab ID : QC433888
Matrix : Soil
Batch : 136222
Time : 21-MAR-2008 00:16
Cal : 98116490001

MSS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF
SER: 1.09 g --> 50.0 ml = 45.87 ml/g PDF

Analyte	MSS	Ch	RL	SER	Ch	RL	%D	Lim	Flags
Antimony	0.6972	A	0.5000	1.720	A	1.200		10	!<a+ r **b***
Arsenic	1.204	A	0.2642	1.471	A	**1.321**		10	!<a+ u **y**
Barium	68.38	A	0.5000	73.72	A	1.147	8	10	u
Beryllium	0.1910	A	0.1000	0.2078 J	A	0.4587	9	10	!<a+ u
Cadmium	0.1971 J	A	0.2500	0.2415 J	A	1.147		10	!<a- !>ib u
Calcium	3252	R	25.00	3483	R	45.87	7	10	u
Chromium	62.61	A	0.5000	67.75	A	1.147	8	10	u
Cobalt	8.405	A	1.000	9.273	A	1.147	10	10	!<a+ u
Copper	18.35	A	0.5000	19.38	A	1.322	6	10	u
Lead	16.63	A	0.2500	18.52	A	0.8511	**11***	10	u
Magnesium	3412	R	25.00	3654	R	45.87	7	10	u
Manganese	217.9	A	0.5000	241.1	A	1.147	**11***	10	u
Molybdenum	ND	A	1.000	ND	A	1.147		10	!<a+ u
Nickel	45.83	A	1.000	50.27	A	1.147	10	10	u
Potassium	566.1	R	25.00	601.9	R	114.7	6	10	!<a+ u
Selenium	ND	A	0.5000	ND	A	1.147		10	u
Silver	ND	A	0.2500	ND	A	1.147		10	u
Sodium	183.3	R	25.00	220.5	R	114.7	**20***	10	!<a+ u
Thallium	ND	A	0.5000	ND	A	1.178		10	u
Vanadium	38.60	A	0.5000	41.20	A	1.147	7	10	u
Zinc	60.05	A	1.000	65.19	A	4.587	9	10	!<a+ u
Boron	14.45	A	5.000	17.79 J	A	22.94	**23***	10	!<a+ !<ib !>ib u
Tin	0.5659	A	2.000	0.9876 J	A	9.174		10	!<a- u

ISTD (ICAL 002)	Ch	ICAL Abund	SER Abund	%Drift
Yttrium	A	2478791	2467478	-0.46

!=warning +=high bias -=low bias <=opening >=closing a=ICSA b=noncompliant ib=instrument blank r=RSD out u=use y=RL raised

CURTIS & TOMPKINS BLANK USER REPORT FOR EPA 6010B

Inst : MET09 Lab ID : QC433883
Seqnum : 98116490023 Matrix : Soil
File : 032008ar Batch : 136222 Time : 20-MAR-2008 23:54
Cal : 98116490001 Caldate : 20-MAR-2008
IDF : 1.0 Units : mg/Kg

1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Ch	Result	Conf	RPD	RL	Flags
Aluminum	R	ND			5.0	u
Antimony	A	ND			0.50	!<a+ u
Arsenic	A	ND			**0.29**	!<a+ u **y**
Barium	A	ND			0.50	u
Beryllium	A	ND			0.10	!<a+ u
Cadmium	A	ND			0.25	!<a- !>ib u
Calcium	R	ND			25	u
Chromium	A	ND			0.50	u
Cobalt	A	ND			1.0	!<a+ u
Copper	A	ND			0.50	u
Iron	R	ND			5.0	u
Lead	A	ND			0.25	u
Magnesium	R	ND			25	u
Manganese	A	ND			0.50	u
Molybdenum	A	ND			1.0	!<a+ u
Nickel	A	ND			1.0	u
Potassium	R	ND			25	!<a+ u
Selenium	A	ND			0.50	u
Silver	A	ND			0.25	u
Sodium	R	ND			25	!<a+ u
Thallium	A	ND			0.50	u
Vanadium	A	ND			0.50	u
Zinc	A	0.20 J			1.0	!<a+ u
Boron	A	0.23 J			5.0	!<a+ !<ib !>ib u
Tin	A	0.58 J			2.0	!<a- u
Titanium	A	0.045 J			0.50	u

ISTD (ICAL 002)	Ch	ICAL Abund	BLANK Abund	%Drift
Yttrium	A	2478791	2522995	1.78

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

98116490023

CURTIS & TOMPKINS SPIKE USER REPORT FOR EPA 6010B

Type : BS
Inst : MET09
Seqnum : 98116490024
File : 032008ar
IDF : 1.0
Lab ID : QC433884
Matrix : Soil
Batch : 136222
Time : 20-MAR-2008 23:59
Cal : 98116490001
Units : mg/Kg

Type : BSD
Inst : MET09
Seqnum : 98116490025
File : 032008ar
IDF : 1.0
Lab ID : QC433885
Matrix : Soil
Batch : 136222
Time : 21-MAR-2008 00:03
Cal : 98116490001

BS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF
BSD: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Spiked	BS	Ch	%Rec	BSD	Ch	%Rec	Limits	RPD	Lim	Flags
Aluminum	1000	907.2	R	91	925.3	R	93	80-120	2	20	u
Antimony	100.0	95.52	A	96	95.94	A	96	80-120	0	20	!<a+ u
Arsenic	50.00	47.81	A	96	48.24	A	96	80-120	1	20	!<a+ u y
Barium	100.0	95.71	A	96	95.54	A	96	80-120	0	20	u
Beryllium	2.500	2.451	A	98	2.451	A	98	80-120	0	20	!<a+ u
Cadmium	10.00	9.674	A	97	9.753	A	98	80-120	1	20	!<a- !>ib u
Calcium	1000	946.5	R	95	967.7	R	97	80-120	2	20	u
Chromium	100.0	94.26	A	94	94.14	A	94	80-120	0	20	u
Cobalt	25.00	22.97	A	92	23.10	A	92	80-120	1	20	!<a+ u
Copper	12.50	11.73	A	94	11.68	A	93	80-120	0	20	u
Iron	1000	957.5	R	96	975.8	R	98	80-120	2	20	u
Lead	100.0	93.04	A	93	93.60	A	94	80-120	1	20	u
Magnesium	1000	926.0	R	93	945.5	R	95	80-120	2	20	u
Manganese	25.00	24.34	A	97	24.33	A	97	80-120	0	20	u
Molybdenum	20.00	20.11	A	101	20.13	A	101	80-120	0	20	!<a+ u
Nickel	25.00	23.69	A	95	23.70	A	95	80-120	0	20	u
Potassium	500.0	460.2	R	92	467.2	R	93	80-120	2	20	!<a+ u
Selenium	50.00	48.01	A	96	48.23	A	96	80-120	0	20	u
Silver	10.00	8.994	A	90	8.990	A	90	80-120	0	20	u
Sodium	1000	963.0	R	96	1001	R	100	80-120	4	20	!<a+ u
Thallium	50.00	47.19	A	94	47.36	A	95	80-120	0	20	u
Vanadium	25.00	23.48	A	94	23.34	A	93	80-120	1	20	u
Zinc	25.00	23.80	A	95	23.82	A	95	80-120	0	20	!<a+ u
Boron	50.00	47.15	A	94	47.25	A	95	80-120	0	20	!<a+ !<ib !>ib u
Tin	50.00	48.61	A	97	48.84	A	98	80-120	0	20	!<a- u
Titanium	50.00	49.15	A	98	49.02	A	98	80-120	0	20	u

ISTD (ICAL 002)	Ch	ICAL Abund	BS Abund	%Drift
Yttrium	A	2478791	2459103	-0.79

ISTD (ICAL 002)	Ch	ICAL Abund	BSD Abund	%Drift
Yttrium	A	2478791	2417033	-2.49

!=warning +=high bias -=low bias <=opening >=closing a=ICSA ib=instrument blank u=use y=RL raised

98116490025

CURTIS & TOMPKINS SPIKE USER REPORT FOR EPA 6010B

Type	: MSS	Type	: MS	Type	: MSD
Inst	: MET09	Inst	: MET09	Inst	: MET09
Seqnum	: 98116490026	Seqnum	: 98116490027	Seqnum	: 98116490028
File	: 032008ar	File	: 032008ar	File	: 032008ar
IDF	: 1.0	IDF	: 1.0	IDF	: 1.0
Lab ID	: 202043-001	Lab ID	: QC433886	Lab ID	: QC433887
Matrix	: Soil	Matrix	: Soil	Matrix	: Soil
Batch	: 136222	Batch	: 136222	Batch	: 136222
Time	: 21-MAR-2008 00:07	Time	: 21-MAR-2008 00:10	Time	: 21-MAR-2008 00:13
Cal	: 98116490001	Cal	: 98116490001	Cal	: 98116490001
Units	: mg/Kg				

MSS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF
MS: 1.06 g --> 50.0 ml = 47.17 ml/g PDF
MSD: 1.11 g --> 50.0 ml = 45.05 ml/g PDF

Analyte	MSS	Ch	Spiked	MS	Ch	%Rec	Spiked	MSD	Ch	%Rec	Limits	RPD	Lim	Flags
Antimony	0.6972	A	94.34	44.10	A	46	90.09	29.31	A	32	3-120	**36***	33	!<a+ u
Arsenic	1.204	A	47.17	43.76	A	90	45.05	42.38	A	91	71-120	1	20	!<a+ u **y**
Barium	68.38	A	94.34	131.0	A	66	90.09	160.3	A	102	50-135	23	24	u
Beryllium	0.1910	A	2.358	2.406	A	94	2.252	2.299	A	94	79-120	0	20	!<a+ u
Cadmium	0.1971 J	A	9.434	9.008	A	93	9.009	8.439	A	91	71-120	2	20	!<a- !>ib u
Calcium	3252	R	943.4	4168	R	97	900.9	4307	R	117	34-159	4	27	u
Chromium	62.61	A	94.34	148.1	A	91	90.09	139.7	A	86	65-120	3	20	u
Cobalt	8.405	A	23.58	27.57	A	81	22.52	28.40	A	89	60-120	6	23	!<a+ u
Copper	18.35	A	11.79	17.61	A	**-6***	11.26	64.86	A	**413***	42-152	**116***	23	u
Lead	16.63	A	94.34	96.89	A	85	90.09	117.3	A	112	53-124	23	28	u
Magnesium	3412	R	943.4	4037	R	66	900.9	**4952 >LR**	R	171	27-163		27	>LR **b***
Manganese	217.9	A	23.58	192.9	A	-106	22.52	264.7	A	208	57-146	**32***	21	: u
Molybdenum	ND	A	18.87	17.31	A	92	18.02	15.01	A	83	66-120	10	20	!<a+ u
Nickel	45.83	A	23.58	67.34	A	91	22.52	74.29	A	126	44-139	11	26	u
Potassium	566.1	R	471.7	870.1	R	64	450.5	1339	R	**172***	42-145	**44***	21	!<a+ u
Selenium	ND	A	47.17	40.63	A	86	45.05	36.65	A	81	69-120	6	20	u
Silver	ND	A	9.434	8.377	A	89	9.009	7.823	A	87	70-120	2	20	u
Sodium	183.3	R	943.4	1134	R	101	900.9	1042	R	95	64-123	5	26	!<a+ u
Thallium	ND	A	47.17	40.08	A	85	45.05	35.48	A	79	61-120	8	20	u
Vanadium	38.60	A	23.58	56.11	A	74	22.52	62.24	A	105	51-137	12	20	u
Zinc	60.05	A	23.58	45.87	A	**-60***	22.52	120.5	A	**268***	36-150	**91***	30	!<a+ u
Boron	14.45	A	47.17	54.90	A	86	45.05	55.08	A	90	56-120	4	37	!<a+ !<ib !>ib u
Tin	0.5659	A	47.17	41.20	A	86	45.05	38.65	A	85	62-120	2	20	!<a- u

ISTD (ICAL 002)	Ch	ICAL Abund	MS Abund	%Drift
Yttrium	A	2478791	2385515	-3.76

ISTD (ICAL 002)	Ch	ICAL Abund	MSD Abund	%Drift
Yttrium	A	2478791	2441527	-1.50

!=warning +=high bias -=low bias :=recovery not meaningful <=opening >=closing >LR=overrange a=ICSA b=noncompliant
ib=instrument blank u=use y=RL raised

98116490028

: 00089

Sequence No.: 7
Sample ID: s8613
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/20/2008 9:54:58 PM
Data Type: Reprocessed on 3/20/2008 10:19:06 PM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: s8613

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: s8613

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	2374531.8	95.7940	%	1.15232				1.20%
Y	162532.1	97.7348	%	1.01881				1.04%
Ag 328.068†	477876.2	1009.66	ug/L	4.157	1009.66	ug/L	4.157	0.41%
QC value within limits for Ag 328.068 Recovery = 100.97%								
Al 308.215 R†	8355.3	19730.8	ug/L	95.88	19730.8	ug/L	95.88	0.49%
QC value within limits for Al 308.215 R Recovery = 98.65%								
As 188.979†	42183.3	5195.19	ug/L	3.531	5195.19	ug/L	3.531	0.07%
QC value within limits for As 188.979 Recovery = 103.90%								
B 249.677†	877652.6	5083.34	ug/L	19.140	5083.34	ug/L	19.140	0.38%
QC value within limits for B 249.677 Recovery = 101.67%								
Ba 233.527†	364757.7	5100.49	ug/L	8.664	5100.49	ug/L	8.664	0.17%
QC value within limits for Ba 233.527 Recovery = 102.01%								
Be 313.107†	1690409.2	507.811	ug/L	1.5757	507.811	ug/L	1.5757	0.31%
QC value within limits for Be 313.107 Recovery = 101.56%								
Ca 315.887 R†	82291.1	20391.3	ug/L	19.11	20391.3	ug/L	19.11	0.09%
QC value within limits for Ca 315.887 R Recovery = 101.96%								
Cd 214.440†	770806.8	5092.97	ug/L	41.381	5092.97	ug/L	41.381	0.81%
QC value within limits for Cd 214.440 Recovery = 101.86%								
Co 228.616†	201347.1	4956.08	ug/L	8.773	4956.08	ug/L	8.773	0.18%
QC value within limits for Co 228.616 Recovery = 99.12%								
Cr 267.716†	669932.2	4948.54	ug/L	15.901	4948.54	ug/L	15.901	0.32%
QC value within limits for Cr 267.716 Recovery = 98.97%								
Cu 324.752†	780773.0	4956.10	ug/L	22.750	4956.10	ug/L	22.750	0.46%
QC value within limits for Cu 324.752 Recovery = 99.12%								
Fe 238.204 R†	35638.2	20760.0	ug/L	50.79	20760.0	ug/L	50.79	0.24%
QC value within limits for Fe 238.204 R Recovery = 103.80%								
K 766.490 R†	50653.5	19599.8	ug/L	100.49	19599.8	ug/L	100.49	0.51%
QC value within limits for K 766.490 R Recovery = 98.00%								
Mg 279.077 R†	8598.5	20642.9	ug/L	127.19	20642.9	ug/L	127.19	0.62%
QC value within limits for Mg 279.077 R Recovery = 103.21%								
Mn 257.610†	2108848.3	5032.92	ug/L	18.725	5032.92	ug/L	18.725	0.37%
QC value within limits for Mn 257.610 Recovery = 100.66%								
Mo 202.031†	161111.9	5070.38	ug/L	59.880	5070.38	ug/L	59.880	1.18%
QC value within limits for Mo 202.031 Recovery = 101.41%								
Na 589.592 R†	6445377.8	20418.9	ug/L	157.04	20418.9	ug/L	157.04	0.77%
QC value within limits for Na 589.592 R Recovery = 102.09%								
Ni 231.604†	342175.0	4955.29	ug/L	21.197	4955.29	ug/L	21.197	0.43%
QC value within limits for Ni 231.604 Recovery = 99.11%								
Pb 220.353†	152921.9	5056.58	ug/L	41.037	5056.58	ug/L	41.037	0.81%
QC value within limits for Pb 220.353 Recovery = 101.13%								
Sb 206.836†	105150.8	5074.05	ug/L	40.952	5074.05	ug/L	40.952	0.81%
QC value within limits for Sb 206.836 Recovery = 101.48%								
Se 196.026†	58182.5	5114.55	ug/L	29.587	5114.55	ug/L	29.587	0.58%
QC value within limits for Se 196.026 Recovery = 102.29%								
Ti 334.940 R†	2961917.9	5050.09	ug/L	5.540	5050.09	ug/L	5.540	0.11%
QC value within limits for Ti 334.940 R Recovery = 101.00%								
Tl 190.801†	43750.2	5024.88	ug/L	20.194	5024.88	ug/L	20.194	0.40%
QC value within limits for Tl 190.801 Recovery = 100.50%								
V 292.402†	828102.6	4949.10	ug/L	8.876	4949.10	ug/L	8.876	0.18%
QC value within limits for V 292.402 Recovery = 98.98%								
Zn 206.200†	263013.2	4967.87	ug/L	26.359	4967.87	ug/L	26.359	0.53%
QC value within limits for Zn 206.200 Recovery = 99.36%								
Sn 189.927†	79012.9	5078.11	ug/L	21.310	5078.11	ug/L	21.310	0.42%
QC value within limits for Sn 189.927 Recovery = 101.56%								

Sequence No.: 8
Sample ID: ICB
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/20/2008 10:11:45 PM
Data Type: Reprocessed on 3/20/2008 10:19:08 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2475618.7	99.8720	%	0.29889				0.30%
Y	161944.1	97.3813	%	4.83036				4.96%
Ag 328.068†	-22.1	-0.0468	ug/L	0.35169	-0.0468	ug/L	0.35169	751.83%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	-5.3	-12.6204	ug/L	2.36177	-12.6204	ug/L	2.36177	18.71%
QC value within limits for Al 308.215 R Recovery = Not calculated								
As 188.979†	5.3	0.6559	ug/L	1.34375	0.6559	ug/L	1.34375	204.88%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	1509.3	8.7420	ug/L	0.16511	8.7420	ug/L	0.16511	1.89%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-3.8	-0.0526	ug/L	0.03986	-0.0526	ug/L	0.03986	75.84%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	207.7	0.0624	ug/L	0.01795	0.0624	ug/L	0.01795	28.78%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	-72.9	-18.0606	ug/L	3.01951	-18.0606	ug/L	3.01951	16.72%
QC value within limits for Ca 315.887 R Recovery = Not calculated								
Cd 214.440†	21.4	0.1411	ug/L	0.06434	0.1411	ug/L	0.06434	45.58%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	0.3	0.0073	ug/L	0.18478	0.0073	ug/L	0.18478	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-9.2	-0.0677	ug/L	0.07111	-0.0677	ug/L	0.07111	105.11%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	137.9	0.8756	ug/L	0.32437	0.8756	ug/L	0.32437	37.04%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204 R†	-69.6	-40.5308	ug/L	0.60126	-40.5308	ug/L	0.60126	1.48%
QC value within limits for Fe 238.204 R Recovery = Not calculated								
K 766.490 R†	1.9	0.7284	ug/L	51.24057	0.7284	ug/L	51.24057	>999.9%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	-21.7	-52.1392	ug/L	13.99402	-52.1392	ug/L	13.99402	26.84%
QC value within limits for Mg 279.077 R Recovery = Not calculated								
Mn 257.610†	-58.5	-0.1397	ug/L	0.02983	-0.1397	ug/L	0.02983	21.36%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	15.3	0.4824	ug/L	0.24975	0.4824	ug/L	0.24975	51.77%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 R†	-3243.3	-10.2748	ug/L	8.40669	-10.2748	ug/L	8.40669	81.82%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	13.4	0.1935	ug/L	0.12642	0.1935	ug/L	0.12642	65.32%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	7.1	0.2361	ug/L	1.00946	0.2361	ug/L	1.00946	427.58%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	5.0	0.2428	ug/L	0.77075	0.2428	ug/L	0.77075	317.39%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	10.2	0.8961	ug/L	0.84269	0.8961	ug/L	0.84269	94.04%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ti 334.940 R†	-142.9	-0.2436	ug/L	0.05760	-0.2436	ug/L	0.05760	23.65%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	11.6	1.3317	ug/L	0.40457	1.3317	ug/L	0.40457	30.38%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	7.5	0.0447	ug/L	0.12968	0.0447	ug/L	0.12968	290.37%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	-1.1	-0.0203	ug/L	0.14716	-0.0203	ug/L	0.14716	725.33%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Sn 189.927†	5.9	0.3818	ug/L	0.18981	0.3818	ug/L	0.18981	49.71%
QC value within limits for Sn 189.927 Recovery = Not calculated								

Sequence No.: 9
Sample ID: s8719
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 3/20/2008 10:16:03 PM
Data Type: Reprocessed on 3/20/2008 10:19:10 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: s8719

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: s8719

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	2207519.5	89.0563	%	1.26723				1.42%
Y	162879.4	97.9437	%	1.29213				1.32%
Ag 328.068†	414.2	0.8752	ug/L	0.98744	0.8752	ug/L	0.98744	112.83%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	210878.1	497981	ug/L	1776.7	497981	ug/L	1776.7	0.36%
QC value within limits for Al 308.215 R Recovery = 99.60%								
As 188.979†	24.8	3.0547	ug/L	11.32643	3.0547	ug/L	11.32643	370.78%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	23914.8	138.514	ug/L	3.7751	138.514	ug/L	3.7751	2.73%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-12.5	-0.1752	ug/L	0.40179	-0.1752	ug/L	0.40179	229.28%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	924.0	0.2776	ug/L	0.07162	0.2776	ug/L	0.07162	25.80%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	2012060.8	498578	ug/L	6525.8	498578	ug/L	6525.8	1.31%
QC value within limits for Ca 315.887 R Recovery = 99.72%								
Cd 214.440†	-186.1	-1.2296	ug/L	0.46056	-1.2296	ug/L	0.46056	37.46%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	1948.4	3.4800	ug/L	0.70464	3.4800	ug/L	0.70464	20.25%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	2667902.6	19706.8	ug/L	87.80	19706.8	ug/L	87.80	0.45%
QC value within limits for Cr 267.716 Recovery = 98.53%								
Cu 324.752†	3294411.9	20911.9	ug/L	323.26	20911.9	ug/L	323.26	1.55%
QC value within limits for Cu 324.752 Recovery = 104.56%								
Fe 238.204 R†	337318.9	196495	ug/L	1032.1	196495	ug/L	1032.1	0.53%
QC value within limits for Fe 238.204 R Recovery = 98.25%								
K 766.490 R†	350.6	135.648	ug/L	25.6379	135.648	ug/L	25.6379	18.90%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	215616.6	517640	ug/L	1362.6	517640	ug/L	1362.6	0.26%
QC value within limits for Mg 279.077 R Recovery = 103.53%								
Mn 257.610†	7973513.9	19029.4	ug/L	157.56	19029.4	ug/L	157.56	0.83%
QC value within limits for Mn 257.610 Recovery = 95.15%								
Mo 202.031†	101.8	3.2022	ug/L	2.37666	3.2022	ug/L	2.37666	74.22%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 R†	17711.9	56.1110	ug/L	2.95231	56.1110	ug/L	2.95231	5.26%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	1313374.3	19019.9	ug/L	54.08	19019.9	ug/L	54.08	0.28%
QC value within limits for Ni 231.604 Recovery = 95.10%								
Pb 220.353†	14.4	0.4770	ug/L	2.00712	0.4770	ug/L	2.00712	420.78%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	189.9	9.1632	ug/L	12.19276	9.1632	ug/L	12.19276	133.06%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	22.0	1.9316	ug/L	16.39949	1.9316	ug/L	16.39949	849.02%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ti 334.940 R†	11886223.3	20266.1	ug/L	218.00	20266.1	ug/L	218.00	1.08%
QC value within limits for Ti 334.940 R Recovery = 101.33%								
Tl 190.801†	13.6	1.5626	ug/L	3.54832	1.5626	ug/L	3.54832	227.08%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	3374382.8	20166.8	ug/L	92.31	20166.8	ug/L	92.31	0.46%
QC value within limits for V 292.402 Recovery = 100.83%								
Zn 206.200†	243.8	4.6058	ug/L	1.77262	4.6058	ug/L	1.77262	38.49%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Sn 189.927†	-291.2	-18.7134	ug/L	3.61245	-18.7134	ug/L	3.61245	19.30%
QC value within limits for Sn 189.927 Recovery = Not calculated								

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Initial Sample Wt:
Dilution:
User canceled analysis.

Autosampler Location: 1
Date Collected: 3/20/2008 10:26:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Sequence No.: 10
Sample ID: s8351
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 3/20/2008 10:26:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: s8351

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: s8351

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2092410.1	84.4125	%	1.55603				1.84%
Y	145821.8	87.6865	%	3.20630				3.66%
Ag 328.068†	514021.6	1086.03	ug/L	12.085	1086.03	ug/L	12.085	1.11%
QC value within limits for Ag 328.068 Recovery = 108.60%								
Al 308.215 R†	224227.6	529505	ug/L	8030.1	529505	ug/L	8030.1	1.52%
QC value within limits for Al 308.215 R Recovery = 105.90%								
As 188.979†	4433.6	546.027	ug/L	12.6100	546.027	ug/L	12.6100	2.31%
QC value within limits for As 188.979 Recovery = 109.21%								
B 249.677†	24073.4	139.433	ug/L	4.2010	139.433	ug/L	4.2010	3.01%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	38530.1	538.775	ug/L	10.7227	538.775	ug/L	10.7227	1.99%
QC value within limits for Ba 233.527 Recovery = 107.75%								
Be 313.107†	1790899.9	537.999	ug/L	6.1868	537.999	ug/L	6.1868	1.15%
QC value within limits for Be 313.107 Recovery = 107.60%								
Ca 315.887 R†	2117676.4	524749	ug/L	20057.2	524749	ug/L	20057.2	3.82%
QC value within limits for Ca 315.887 R Recovery = 104.95%								
Cd 214.440†	154517.7	1020.95	ug/L	10.140	1020.95	ug/L	10.140	0.99%
QC value within limits for Cd 214.440 Recovery = 102.09%								
Co 228.616†	21452.5	483.846	ug/L	10.1893	483.846	ug/L	10.1893	2.11%
QC value within limits for Co 228.616 Recovery = 96.77%								
Cr 267.716†	69726.2	515.041	ug/L	7.9606	515.041	ug/L	7.9606	1.55%
QC value within limits for Cr 267.716 Recovery = 103.01%								
Cu 324.752†	86583.7	549.606	ug/L	7.0751	549.606	ug/L	7.0751	1.29%
QC value within limits for Cu 324.752 Recovery = 109.92%								
Fe 238.204 R†	347462.4	202404	ug/L	2301.7	202404	ug/L	2301.7	1.14%
QC value within limits for Fe 238.204 R Recovery = 101.20%								
K 766.490 R†	43.7	16.9231	ug/L	16.37075	16.9231	ug/L	16.37075	96.74%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	222258.3	533585	ug/L	10408.6	533585	ug/L	10408.6	1.95%
QC value within limits for Mg 279.077 R Recovery = 106.72%								
Mn 257.610†	223734.0	533.958	ug/L	8.3122	533.958	ug/L	8.3122	1.56%
QC value within limits for Mn 257.610 Recovery = 106.79%								
Mo 202.031†	17195.9	541.175	ug/L	7.7687	541.175	ug/L	7.7687	1.44%
QC value within limits for Mo 202.031 Recovery = 108.23%								
Na 589.592 R†	14796.8	46.8762	ug/L	4.77632	46.8762	ug/L	4.77632	10.19%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	67282.4	974.365	ug/L	18.0518	974.365	ug/L	18.0518	1.85%
QC value within limits for Ni 231.604 Recovery = 97.44%								
Pb 220.353†	28418.8	939.708	ug/L	20.7421	939.708	ug/L	20.7421	2.21%
QC value within limits for Pb 220.353 Recovery = 93.97%								
Sb 206.836†	11682.4	563.732	ug/L	6.0343	563.732	ug/L	6.0343	1.07%
QC value within limits for Sb 206.836 Recovery = 112.75%								
Se 196.026†	5808.2	510.571	ug/L	4.6817	510.571	ug/L	4.6817	0.92%
QC value within limits for Se 196.026 Recovery = 102.11%								
Ti 334.940 R†	12098994.7	20628.9	ug/L	473.25	20628.9	ug/L	473.25	2.29%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	3786.8	434.931	ug/L	12.7898	434.931	ug/L	12.7898	2.94%

QC value within limits for Tl 190.801 Recovery = 86.99%

V 292.402†	89042.9	532.159 ug/L	6.5320	532.159 ug/L	6.5320	1.23%

QC value within limits for V 292.402 Recovery = 106.43%

Zn 206.200†	52733.7	996.050 ug/L	19.1753	996.050 ug/L	19.1753	1.93%

QC value within limits for Zn 206.200 Recovery = 99.61%

Sn 189.927†	-291.1	-18.7111 ug/L	4.17892	-18.7111 ug/L	4.17892	22.33%

QC value within limits for Sn 189.927 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 19
Sample ID: s8351
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 3/20/2008 10:54:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: s8351

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: s8351

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2225405.6	89.7779	%	1.83525				2.04%
Y	162044.6	97.4417	%	1.12331				1.15%
Ag 328.068†	499280.7	1054.88	ug/L	5.894	1054.88	ug/L	5.894	0.56%
QC value within limits for Ag 328.068 Recovery = 105.49%								
Al 308.215 R†	206812.4	488380	ug/L	8469.1	488380	ug/L	8469.1	1.73%
QC value within limits for Al 308.215 R Recovery = 97.68%								
As 188.979†	4254.4	523.960	ug/L	24.7311	523.960	ug/L	24.7311	4.72%
QC value within limits for As 188.979 Recovery = 104.79%								
B 249.677†	26073.0	151.014	ug/L	6.5332	151.014	ug/L	6.5332	4.33%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	37003.3	517.426	ug/L	19.1630	517.426	ug/L	19.1630	3.70%
QC value within limits for Ba 233.527 Recovery = 103.49%								
Be 313.107†	1739608.7	522.590	ug/L	4.0095	522.590	ug/L	4.0095	0.77%
QC value within limits for Be 313.107 Recovery = 104.52%								
Ca 315.887 R†	1973888.4	489119	ug/L	6094.7	489119	ug/L	6094.7	1.25%
QC value within limits for Ca 315.887 R Recovery = 97.82%								
Cd 214.440†	151869.2	1003.45	ug/L	7.261	1003.45	ug/L	7.261	0.72%
QC value within limits for Cd 214.440 Recovery = 100.34%								
Co 228.616†	20619.3	464.741	ug/L	17.9883	464.741	ug/L	17.9883	3.87%
QC value within limits for Co 228.616 Recovery = 92.95%								
Cr 267.716†	67704.4	500.108	ug/L	3.4417	500.108	ug/L	3.4417	0.69%
QC value within limits for Cr 267.716 Recovery = 100.02%								
Cu 324.752†	82646.7	524.615	ug/L	7.8199	524.615	ug/L	7.8199	1.49%
QC value within limits for Cu 324.752 Recovery = 104.92%								
Fe 238.204 R†	328903.7	191593	ug/L	3192.0	191593	ug/L	3192.0	1.67%
QC value within limits for Fe 238.204 R Recovery = 95.80%								
K 766.490 R†	410.0	158.639	ug/L	54.6982	158.639	ug/L	54.6982	34.48%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	206802.1	496479	ug/L	8096.8	496479	ug/L	8096.8	1.63%
QC value within limits for Mg 279.077 R Recovery = 99.30%								
Mn 257.610†	220662.6	526.628	ug/L	4.7209	526.628	ug/L	4.7209	0.90%
QC value within limits for Mn 257.610 Recovery = 105.33%								
Mo 202.031†	16545.9	520.718	ug/L	21.6462	520.718	ug/L	21.6462	4.16%
QC value within limits for Mo 202.031 Recovery = 104.14%								
Na 589.592 R†	19898.1	63.0369	ug/L	4.64395	63.0369	ug/L	4.64395	7.37%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	64710.2	937.116	ug/L	38.0214	937.116	ug/L	38.0214	4.06%
QC value within limits for Ni 231.604 Recovery = 93.71%								
Pb 220.353†	26992.3	892.540	ug/L	23.7361	892.540	ug/L	23.7361	2.66%
QC value within limits for Pb 220.353 Recovery = 89.25%								
Sb 206.836†	10918.6	526.874	ug/L	25.5627	526.874	ug/L	25.5627	4.85%
QC value within limits for Sb 206.836 Recovery = 105.37%								
Se 196.026†	5591.4	491.516	ug/L	10.5204	491.516	ug/L	10.5204	2.14%
QC value within limits for Se 196.026 Recovery = 98.30%								
Ti 334.940 R†	11711791.7	19968.7	ug/L	335.55	19968.7	ug/L	335.55	1.68%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	3761.9	432.070	ug/L	19.1151	432.070	ug/L	19.1151	4.42%
QC value within limits for Tl 190.801 Recovery = 86.41%								
V 292.402†	86075.4	514.424	ug/L	2.5996	514.424	ug/L	2.5996	0.51%
QC value within limits for V 292.402 Recovery = 102.88%								
Zn 206.200†	50871.8	960.883	ug/L	36.9149	960.883	ug/L	36.9149	3.84%
QC value within limits for Zn 206.200 Recovery = 96.09%								
Sn 189.927†	-223.8	-14.3832	ug/L	1.97125	-14.3832	ug/L	1.97125	13.71%
QC value within limits for Sn 189.927 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 20
Sample ID: s8614
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/20/2008 10:59:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: s8614

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: s8614

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	2447069.5	98.7203	%	0.70360				0.71%
Y	160924.9	96.7684	%	4.13186				4.27%
Ag 328.068†	470758.3	994.621	ug/L	4.5991	994.621	ug/L	4.5991	0.46%
QC value within limits for Ag 328.068 Recovery = 99.46%								
Al 308.215 R†	8424.9	19895.0	ug/L	279.88	19895.0	ug/L	279.88	1.41%
QC value within limits for Al 308.215 R Recovery = 99.47%								
As 188.979†	40820.8	5027.39	ug/L	73.560	5027.39	ug/L	73.560	1.46%
QC value within limits for As 188.979 Recovery = 100.55%								
B 249.677†	876482.7	5076.56	ug/L	15.075	5076.56	ug/L	15.075	0.30%
QC value within limits for B 249.677 Recovery = 101.53%								
Ba 233.527†	364017.5	5090.14	ug/L	9.414	5090.14	ug/L	9.414	0.18%
QC value within limits for Ba 233.527 Recovery = 101.80%								
Be 313.107†	1690089.1	507.714	ug/L	2.3460	507.714	ug/L	2.3460	0.46%
QC value within limits for Be 313.107 Recovery = 101.54%								
Ca 315.887 R†	84408.6	20916.0	ug/L	153.35	20916.0	ug/L	153.35	0.73%
QC value within limits for Ca 315.887 R Recovery = 104.58%								
Cd 214.440†	789325.6	5215.33	ug/L	13.310	5215.33	ug/L	13.310	0.26%
QC value within limits for Cd 214.440 Recovery = 104.31%								
Co 228.616†	200329.3	4931.01	ug/L	11.981	4931.01	ug/L	11.981	0.24%
QC value within limits for Co 228.616 Recovery = 98.62%								
Cr 267.716†	669137.0	4942.67	ug/L	19.599	4942.67	ug/L	19.599	0.40%
QC value within limits for Cr 267.716 Recovery = 98.85%								
Cu 324.752†	764366.9	4851.96	ug/L	21.338	4851.96	ug/L	21.338	0.44%
QC value within limits for Cu 324.752 Recovery = 97.04%								
Fe 238.204 R†	37061.6	21589.1	ug/L	186.96	21589.1	ug/L	186.96	0.87%
QC value within limits for Fe 238.204 R Recovery = 107.95%								
K 766.490 R†	51596.6	19964.8	ug/L	225.36	19964.8	ug/L	225.36	1.13%
QC value within limits for K 766.490 R Recovery = 99.82%								
Mg 279.077 R†	8668.9	20811.7	ug/L	209.82	20811.7	ug/L	209.82	1.01%
QC value within limits for Mg 279.077 R Recovery = 104.06%								
Mn 257.610†	2123648.0	5068.24	ug/L	8.620	5068.24	ug/L	8.620	0.17%
QC value within limits for Mn 257.610 Recovery = 101.36%								
Mo 202.031†	155305.6	4887.64	ug/L	47.107	4887.64	ug/L	47.107	0.96%
QC value within limits for Mo 202.031 Recovery = 97.75%								
Na 589.592 R†	6620880.9	20974.9	ug/L	712.15	20974.9	ug/L	712.15	3.40%
QC value within limits for Na 589.592 R Recovery = 104.87%								
Ni 231.604†	343620.5	4976.22	ug/L	18.045	4976.22	ug/L	18.045	0.36%
QC value within limits for Ni 231.604 Recovery = 99.52%								
Pb 220.353†	145784.0	4820.55	ug/L	51.784	4820.55	ug/L	51.784	1.07%
QC value within limits for Pb 220.353 Recovery = 96.41%								
Sb 206.836†	104421.3	5038.84	ug/L	32.316	5038.84	ug/L	32.316	0.64%
QC value within limits for Sb 206.836 Recovery = 100.78%								
Se 196.026†	56907.4	5002.46	ug/L	44.507	5002.46	ug/L	44.507	0.89%
QC value within limits for Se 196.026 Recovery = 100.05%								
Ti 334.940 R†	2949625.0	5029.13	ug/L	7.939	5029.13	ug/L	7.939	0.16%
QC value within limits for Ti 334.940 R Recovery = 100.58%								
Tl 190.801†	42488.6	4879.99	ug/L	52.348	4879.99	ug/L	52.348	1.07%
QC value within limits for Tl 190.801 Recovery = 97.60%								
V 292.402†	827725.1	4946.85	ug/L	17.353	4946.85	ug/L	17.353	0.35%
QC value within limits for V 292.402 Recovery = 98.94%								
Zn 206.200†	264993.0	5005.27	ug/L	25.124	5005.27	ug/L	25.124	0.50%
QC value within limits for Zn 206.200 Recovery = 100.11%								
Sn 189.927†	77138.5	4957.65	ug/L	37.788	4957.65	ug/L	37.788	0.76%
QC value within limits for Sn 189.927 Recovery = 99.15%								

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: ccb
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/20/2008 11:06:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ccb

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2488376.0	100.387	%	0.7219				0.72%
Y	161087.7	96.8663	%	2.63953				2.72%
Ag 328.068†	15.0	0.0317	ug/L	0.34875	0.0317	ug/L	0.34875	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	-0.3	-0.7751	ug/L	10.80643	-0.7751	ug/L	10.80643	>999.9%
QC value within limits for Al 308.215 R Recovery = Not calculated								
As 188.979†	1.9	0.2372	ug/L	0.24354	0.2372	ug/L	0.24354	102.67%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	1874.4	10.8568	ug/L	0.33019	10.8568	ug/L	0.33019	3.04%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-2.9	-0.0404	ug/L	0.02015	-0.0404	ug/L	0.02015	49.83%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	115.8	0.0348	ug/L	0.03020	0.0348	ug/L	0.03020	86.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	-48.6	-12.0501	ug/L	7.64785	-12.0501	ug/L	7.64785	63.47%
QC value within limits for Ca 315.887 R Recovery = Not calculated								
Cd 214.440†	21.1	0.1396	ug/L	0.06688	0.1396	ug/L	0.06688	47.90%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	2.1	0.0509	ug/L	0.13873	0.0509	ug/L	0.13873	272.32%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-14.2	-0.1048	ug/L	0.03721	-0.1048	ug/L	0.03721	35.50%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	110.4	0.7006	ug/L	0.50727	0.7006	ug/L	0.50727	72.40%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204 R†	-39.9	-23.2371	ug/L	12.38086	-23.2371	ug/L	12.38086	53.28%
QC value within limits for Fe 238.204 R Recovery = Not calculated								
K 766.490 R†	89.4	34.5988	ug/L	14.44797	34.5988	ug/L	14.44797	41.76%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	-19.0	-45.6924	ug/L	12.56861	-45.6924	ug/L	12.56861	27.51%
QC value within limits for Mg 279.077 R Recovery = Not calculated								
Mn 257.610†	-53.0	-0.1265	ug/L	0.03039	-0.1265	ug/L	0.03039	24.02%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	20.0	0.6304	ug/L	0.32254	0.6304	ug/L	0.32254	51.16%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 R†	-3928.6	-12.4457	ug/L	5.68490	-12.4457	ug/L	5.68490	45.68%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	14.7	0.2135	ug/L	0.13736	0.2135	ug/L	0.13736	64.35%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-8.5	-0.2823	ug/L	0.89349	-0.2823	ug/L	0.89349	316.49%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-2.0	-0.0943	ug/L	1.83819	-0.0943	ug/L	1.83819	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	10.3	0.9045	ug/L	0.93026	0.9045	ug/L	0.93026	102.85%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ti 334.940 R†	25.5	0.0435	ug/L	0.11411	0.0435	ug/L	0.11411	262.03%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	6.9	0.7872	ug/L	1.17276	0.7872	ug/L	1.17276	148.98%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	11.5	0.0685	ug/L	0.08305	0.0685	ug/L	0.08305	121.32%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	4.1	0.0765	ug/L	0.02073	0.0765	ug/L	0.02073	27.09%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Sn 189.927†	10.3	0.6635	ug/L	0.27483	0.6635	ug/L	0.27483	41.42%
QC value within limits for Sn 189.927 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: ICALBLK, **Date Collected: 3/20/2008 11:54:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

Sequence No.: 11 **Autosampler Location: 11**
Sample ID: qc433883,136222,1 **Date Collected: 3/20/2008 11:54:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: qc433883,136222,1

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: qc433883,136222,1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2522994.7	101.783	%	1.6391				1.61%
Y	161423.7	97.0683	%	4.64874				4.79%
Ag 328.068†	71.7	0.1514	ug/L	0.72306	0.1514	ug/L	0.72306	477.46%
Al 308.215 R†	2.8	6.5523	ug/L	16.60154	6.5523	ug/L	16.60154	253.37%
As 188.979†	6.6	0.8126	ug/L	1.09764	0.8126	ug/L	1.09764	135.07%
B 249.677†	784.9	4.5461	ug/L	0.15256	4.5461	ug/L	0.15256	3.36%
Ba 233.527†	6.4	0.0896	ug/L	0.05602	0.0896	ug/L	0.05602	62.53%
Be 313.107†	-56.0	-0.0168	ug/L	0.02576	-0.0168	ug/L	0.02576	153.17%
Ca 315.887 R†	161.3	39.9586	ug/L	6.55761	39.9586	ug/L	6.55761	16.41%
Cd 214.440†	17.2	0.1135	ug/L	0.06016	0.1135	ug/L	0.06016	53.00%
Co 228.616†	6.4	0.1552	ug/L	0.19918	0.1552	ug/L	0.19918	128.33%
Cr 267.716†	53.9	0.3984	ug/L	0.10292	0.3984	ug/L	0.10292	25.83%
Cu 324.752†	79.6	0.5055	ug/L	0.28471	0.5055	ug/L	0.28471	56.32%
Fe 238.204 R†	10.2	5.9651	ug/L	5.77819	5.9651	ug/L	5.77819	96.87%
K 766.490 R†	3.9	1.5206	ug/L	22.91911	1.5206	ug/L	22.91911	>999.9%
Mg 279.077 R†	-6.4	-15.3914	ug/L	14.42476	-15.3914	ug/L	14.42476	93.72%
Mn 257.610†	70.5	0.1682	ug/L	0.10812	0.1682	ug/L	0.10812	64.27%
Mo 202.031†	4.2	0.1311	ug/L	0.12945	0.1311	ug/L	0.12945	98.75%
Na 589.592 R†	-1757.8	-5.5686	ug/L	2.16863	-5.5686	ug/L	2.16863	38.94%
Ni 231.604†	12.4	0.1792	ug/L	0.06385	0.1792	ug/L	0.06385	35.63%
Pb 220.353†	25.0	0.8283	ug/L	1.27423	0.8283	ug/L	1.27423	153.84%
Sb 206.836†	5.1	0.2471	ug/L	1.86654	0.2471	ug/L	1.86654	755.37%
Se 196.026†	-10.9	-0.9594	ug/L	2.41666	-0.9594	ug/L	2.41666	251.88%
Ti 334.940 R†	533.2	0.9091	ug/L	0.28526	0.9091	ug/L	0.28526	31.38%
Tl 190.801†	12.1	1.3854	ug/L	0.99767	1.3854	ug/L	0.99767	72.01%
V 292.402†	64.7	0.3868	ug/L	0.05002	0.3868	ug/L	0.05002	12.93%
Zn 206.200†	210.5	3.9769	ug/L	0.04675	3.9769	ug/L	0.04675	1.18%
Sn 189.927†	181.1	11.6419	ug/L	0.31071	11.6419	ug/L	0.31071	2.67%

Sequence No.: 12
Sample ID: qc433884,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 3/20/2008 11:59:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: qc433884,136222,1

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: qc433884,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2459102.6	99.2057	%	0.60998				0.61%
Y	165497.4	99.5179	%	1.17827				1.18%
Ag 328.068†	85138.8	179.882	ug/L	2.9551	179.882	ug/L	2.9551	1.64%
Al 308.215 R†	7683.2	18143.7	ug/L	120.02	18143.7	ug/L	120.02	0.66%
As 188.979†	7764.5	956.257	ug/L	8.3106	956.257	ug/L	8.3106	0.87%
B 249.677†	162805.9	942.967	ug/L	11.1879	942.967	ug/L	11.1879	1.19%
Ba 233.527†	136890.6	1914.17	ug/L	12.276	1914.17	ug/L	12.276	0.64%
Be 313.107†	163152.4	49.0121	ug/L	0.49231	49.0121	ug/L	0.49231	1.00%
Ca 315.887 R†	76390.6	18929.2	ug/L	73.24	18929.2	ug/L	73.24	0.39%
Cd 214.440†	29283.4	193.485	ug/L	1.3460	193.485	ug/L	1.3460	0.70%
Co 228.616†	18712.2	459.463	ug/L	3.5814	459.463	ug/L	3.5814	0.78%
Cr 267.716†	255213.5	1885.17	ug/L	16.823	1885.17	ug/L	16.823	0.89%
Cu 324.752†	36950.0	234.547	ug/L	1.2668	234.547	ug/L	1.2668	0.54%
Fe 238.204 R†	32875.2	19150.5	ug/L	38.11	19150.5	ug/L	38.11	0.20%
K 766.490 R†	23784.3	9203.09	ug/L	85.521	9203.09	ug/L	85.521	0.93%
Mg 279.077 R†	7714.0	18519.4	ug/L	118.77	18519.4	ug/L	118.77	0.64%
Mn 257.610†	203967.8	486.784	ug/L	3.3628	486.784	ug/L	3.3628	0.69%
Mo 202.031†	12779.9	402.199	ug/L	4.0129	402.199	ug/L	4.0129	1.00%
Na 589.592 R†	6079480.4	19259.7	ug/L	198.55	19259.7	ug/L	198.55	1.03%
Ni 231.604†	32717.1	473.800	ug/L	3.3553	473.800	ug/L	3.3553	0.71%
Pb 220.353†	56277.4	1860.89	ug/L	16.090	1860.89	ug/L	16.090	0.86%
Sb 206.836†	39590.5	1910.44	ug/L	23.442	1910.44	ug/L	23.442	1.23%
Se 196.026†	10922.6	960.154	ug/L	7.3516	960.154	ug/L	7.3516	0.77%
Ti 334.940 R†	576516.4	982.965	ug/L	5.1656	982.965	ug/L	5.1656	0.53%
Tl 190.801†	8217.8	943.841	ug/L	8.5942	943.841	ug/L	8.5942	0.91%
V 292.402†	78591.1	469.695	ug/L	4.4160	469.695	ug/L	4.4160	0.94%
Zn 206.200†	25204.9	476.078	ug/L	7.8906	476.078	ug/L	7.8906	1.66%
Sn 189.927†	15126.2	972.155	ug/L	7.4223	972.155	ug/L	7.4223	0.76%

Sequence No.: 13
Sample ID: qc433885,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 3/21/2008 12:03:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: qc433885,136222,1

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: qc433885,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2417033.5	97.5086	%	0.07365				0.08%
Y	159144.8	95.6980	%	1.06908				1.12%
Ag 328.068†	85097.3	179.794	ug/L	1.7789	179.794	ug/L	1.7789	0.99%
Al 308.215 R†	7836.5	18505.5	ug/L	276.66	18505.5	ug/L	276.66	1.50%
As 188.979†	7834.4	964.863	ug/L	4.3178	964.863	ug/L	4.3178	0.45%
B 249.677†	163163.4	945.038	ug/L	9.6125	945.038	ug/L	9.6125	1.02%
Ba 233.527†	136649.0	1910.79	ug/L	11.336	1910.79	ug/L	11.336	0.59%
Be 313.107†	163152.3	49.0121	ug/L	0.35852	49.0121	ug/L	0.35852	0.73%
Ca 315.887 R†	78102.6	19353.4	ug/L	392.66	19353.4	ug/L	392.66	2.03%
Cd 214.440†	29521.2	195.056	ug/L	0.9185	195.056	ug/L	0.9185	0.47%
Co 228.616†	18814.6	461.996	ug/L	1.3264	461.996	ug/L	1.3264	0.29%
Cr 267.716†	254880.9	1882.71	ug/L	12.508	1882.71	ug/L	12.508	0.66%
Cu 324.752†	36790.2	233.533	ug/L	2.7339	233.533	ug/L	2.7339	1.17%
Fe 238.204 R†	33501.3	19515.2	ug/L	349.47	19515.2	ug/L	349.47	1.79%
K 766.490 R†	24148.4	9343.96	ug/L	201.298	9343.96	ug/L	201.298	2.15%
Mg 279.077 R†	7876.5	18909.4	ug/L	444.16	18909.4	ug/L	444.16	2.35%
Mn 257.610†	203927.0	486.687	ug/L	2.0218	486.687	ug/L	2.0218	0.42%
Mo 202.031†	12792.1	402.582	ug/L	1.6260	402.582	ug/L	1.6260	0.40%
Na 589.592 R†	6320576.2	20023.5	ug/L	314.84	20023.5	ug/L	314.84	1.57%
Ni 231.604†	32734.4	474.051	ug/L	2.3666	474.051	ug/L	2.3666	0.50%
Pb 220.353†	56615.6	1872.08	ug/L	10.838	1872.08	ug/L	10.838	0.58%
Sb 206.836†	39764.2	1918.82	ug/L	17.730	1918.82	ug/L	17.730	0.92%
Se 196.026†	10972.5	964.542	ug/L	6.3312	964.542	ug/L	6.3312	0.66%
Ti 334.940 R†	574955.3	980.303	ug/L	4.3211	980.303	ug/L	4.3211	0.44%
Tl 190.801†	8247.6	947.266	ug/L	1.9130	947.266	ug/L	1.9130	0.20%
V 292.402†	78097.7	466.746	ug/L	2.2242	466.746	ug/L	2.2242	0.48%
Zn 206.200†	25225.2	476.462	ug/L	6.5386	476.462	ug/L	6.5386	1.37%
Sn 189.927†	15197.9	976.758	ug/L	5.0568	976.758	ug/L	5.0568	0.52%

Sequence No.: 14
Sample ID: 202043-001,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 3/21/2008 12:07:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-001,136222,1

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: 202043-001,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2460731.5	99.2714	%	0.50207				0.51%
Y	164586.8	98.9704	%	1.93258				1.95%
Ag 328.068†	-1192.6	-2.5197	ug/L	0.29707	-2.5197	ug/L	0.29707	11.79%
Al 308.215 R†	71602.9	169087	ug/L	3174.4	169087	ug/L	3174.4	1.88%
As 188.979†	213.2	26.2545	ug/L	0.22786	26.2545	ug/L	0.22786	0.87%
B 249.677†	54383.5	314.988	ug/L	4.6211	314.988	ug/L	4.6211	1.47%
Ba 233.527†	106598.1	1490.59	ug/L	7.960	1490.59	ug/L	7.960	0.53%
Be 313.107†	13863.8	4.1648	ug/L	0.09214	4.1648	ug/L	0.09214	2.21%
Ca 315.887 R†	286140.0	70903.9	ug/L	1062.19	70903.9	ug/L	1062.19	1.50%
Cd 214.440†	650.4	4.2975	ug/L	0.12449	4.2975	ug/L	0.12449	2.90%
Co 228.616†	8505.7	183.223	ug/L	1.1587	183.223	ug/L	1.1587	0.63%
Cr 267.716†	184779.9	1364.90	ug/L	6.214	1364.90	ug/L	6.214	0.46%
Cu 324.752†	63032.7	400.112	ug/L	3.0554	400.112	ug/L	3.0554	0.76%
Fe 238.204 R†	602621.6	351039	ug/L	3890.7	351039	ug/L	3890.7	1.11%
K 766.490 R†	31895.2	12341.5	ug/L	154.48	12341.5	ug/L	154.48	1.25%
Mg 279.077 R†	30980.2	74375.4	ug/L	1311.12	74375.4	ug/L	1311.12	1.76%
Mn 257.610†	1990419.8	4750.29	ug/L	5.811	4750.29	ug/L	5.811	0.12%
Mo 202.031†	-225.0	-7.0807	ug/L	0.67837	-7.0807	ug/L	0.67837	9.58%
Na 589.592 R†	1261384.5	3996.05	ug/L	56.994	3996.05	ug/L	56.994	1.43%
Ni 231.604†	68989.2	999.082	ug/L	4.3697	999.082	ug/L	4.3697	0.44%
Pb 220.353†	10960.7	362.432	ug/L	2.0018	362.432	ug/L	2.0018	0.55%
Sb 206.836†	315.0	15.1990	ug/L	2.58154	15.1990	ug/L	2.58154	16.98%
Se 196.026†	-803.7	-70.6489	ug/L	1.88391	-70.6489	ug/L	1.88391	2.67%
Ti 334.940 R†	7094204.9	12095.7	ug/L	94.14	12095.7	ug/L	94.14	0.78%
Tl 190.801†	-178.6	-20.5081	ug/L	1.26113	-20.5081	ug/L	1.26113	6.15%
V 292.402†	140795.6	841.456	ug/L	3.7174	841.456	ug/L	3.7174	0.44%
Zn 206.200†	69309.9	1309.15	ug/L	7.281	1309.15	ug/L	7.281	0.56%
Sn 189.927†	192.0	12.3375	ug/L	0.35746	12.3375	ug/L	0.35746	2.90%

Sequence No.: 15
Sample ID: qc433886,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 3/21/2008 12:10:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: qc433886,136222,1

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: qc433886,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2385514.8	96.2370	%	0.43747				0.45%
Y	163065.8	98.0558	%	3.19778				3.26%
Ag 328.068†	84056.8	177.596	ug/L	0.2101	177.596	ug/L	0.2101	0.12%
Al 308.215 R†	73485.1	173532	ug/L	2215.4	173532	ug/L	2215.4	1.28%
As 188.979†	7533.5	927.807	ug/L	34.2810	927.807	ug/L	34.2810	3.69%
B 249.677†	200954.1	1163.92	ug/L	4.919	1163.92	ug/L	4.919	0.42%
Ba 233.527†	198537.4	2776.19	ug/L	12.698	2776.19	ug/L	12.698	0.46%
Be 313.107†	169808.7	51.0117	ug/L	0.30441	51.0117	ug/L	0.30441	0.60%
Ca 315.887 R†	356632.7	88371.7	ug/L	773.47	88371.7	ug/L	773.47	0.88%
Cd 214.440†	28901.6	190.962	ug/L	5.0663	190.962	ug/L	5.0663	2.65%
Co 228.616†	24832.9	584.527	ug/L	14.2135	584.527	ug/L	14.2135	2.43%
Cr 267.716†	425092.3	3140.00	ug/L	17.317	3140.00	ug/L	17.317	0.55%
Cu 324.752†	58820.2	373.372	ug/L	1.6267	373.372	ug/L	1.6267	0.44%
Fe 238.204 R†	558386.2	325271	ug/L	4367.9	325271	ug/L	4367.9	1.34%
K 766.490 R†	47670.9	18445.8	ug/L	157.11	18445.8	ug/L	157.11	0.85%
Mg 279.077 R†	35645.4	85575.6	ug/L	1531.26	85575.6	ug/L	1531.26	1.79%
Mn 257.610†	1713859.6	4090.25	ug/L	17.514	4090.25	ug/L	17.514	0.43%
Mo 202.031†	11659.6	366.941	ug/L	7.3231	366.941	ug/L	7.3231	2.00%
Na 589.592 R†	7586847.7	24035.0	ug/L	248.69	24035.0	ug/L	248.69	1.03%
Ni 231.604†	98584.6	1427.68	ug/L	4.939	1427.68	ug/L	4.939	0.35%
Pb 220.353†	62117.3	2054.00	ug/L	35.087	2054.00	ug/L	35.087	1.71%
Sb 206.836†	19376.2	934.997	ug/L	19.2314	934.997	ug/L	19.2314	2.06%
Se 196.026†	9799.0	861.383	ug/L	19.7450	861.383	ug/L	19.7450	2.29%
Ti 334.940 R†	7489887.9	12770.3	ug/L	56.82	12770.3	ug/L	56.82	0.44%
Tl 190.801†	7397.5	849.630	ug/L	26.2313	849.630	ug/L	26.2313	3.09%
V 292.402†	199050.8	1189.61	ug/L	5.554	1189.61	ug/L	5.554	0.47%
Zn 206.200†	51479.1	972.353	ug/L	3.6573	972.353	ug/L	3.6573	0.38%
Sn 189.927†	13591.7	873.530	ug/L	21.4390	873.530	ug/L	21.4390	2.45%

Sequence No.: 16
Sample ID: qc433887,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 3/21/2008 12:13:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: qc433887,136222,1

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: qc433887,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2441527.3	98.4967	%	1.09823				1.11%
Y	174094.0	104.687	%	1.5280				1.46%
Ag 328.068†	82195.2	173.663	ug/L	2.1035	173.663	ug/L	2.1035	1.21%
Al 308.215 R†	95565.9	225675	ug/L	120.3	225675	ug/L	120.3	0.05%
As 188.979†	7639.1	940.812	ug/L	25.0508	940.812	ug/L	25.0508	2.66%
B 249.677†	211117.4	1222.79	ug/L	14.789	1222.79	ug/L	14.789	1.21%
Ba 233.527†	254492.3	3558.62	ug/L	25.529	3558.62	ug/L	25.529	0.72%
Be 313.107†	169905.2	51.0407	ug/L	0.47211	51.0407	ug/L	0.47211	0.92%
Ca 315.887 R†	385856.2	95613.1	ug/L	225.12	95613.1	ug/L	225.12	0.24%
Cd 214.440†	28353.3	187.340	ug/L	2.3533	187.340	ug/L	2.3533	1.26%
Co 228.616†	26945.9	630.529	ug/L	9.3880	630.529	ug/L	9.3880	1.49%
Cr 267.716†	419711.0	3100.25	ug/L	28.871	3100.25	ug/L	28.871	0.93%
Cu 324.752†	226843.3	1439.93	ug/L	13.563	1439.93	ug/L	13.563	0.94%
Fe 238.204 R†	657541.0	383031	ug/L	1090.9	383031	ug/L	1090.9	0.28%
K 766.490 R†	76809.9	29720.8	ug/L	123.16	29720.8	ug/L	123.16	0.41%
Mg 279.077 R†	45790.3	109931	ug/L	105.9	109931	ug/L	105.9	0.10%
Mn 257.610†	2462294.2	5876.45	ug/L	43.572	5876.45	ug/L	43.572	0.74%
Mo 202.031†	10587.6	333.205	ug/L	2.4464	333.205	ug/L	2.4464	0.73%
Na 589.592 R†	7305262.6	23143.0	ug/L	79.70	23143.0	ug/L	79.70	0.34%
Ni 231.604†	113885.6	1649.26	ug/L	15.065	1649.26	ug/L	15.065	0.91%
Pb 220.353†	78773.4	2604.75	ug/L	8.907	2604.75	ug/L	8.907	0.34%
Sb 206.836†	13483.3	650.637	ug/L	19.8680	650.637	ug/L	19.8680	3.05%
Se 196.026†	9257.0	813.741	ug/L	8.9981	813.741	ug/L	8.9981	1.11%
Ti 334.940 R†	9122884.0	15554.6	ug/L	262.59	15554.6	ug/L	262.59	1.69%
Tl 190.801†	6858.7	787.746	ug/L	11.6191	787.746	ug/L	11.6191	1.47%
V 292.402†	231202.1	1381.76	ug/L	10.245	1381.76	ug/L	10.245	0.74%
Zn 206.200†	141568.7	2673.99	ug/L	28.859	2673.99	ug/L	28.859	1.08%
Sn 189.927†	13350.0	857.994	ug/L	10.7871	857.994	ug/L	10.7871	1.26%

Sequence No.: 17
Sample ID: qc433888,136222,5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 3/21/2008 12:16:43 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: qc433888,136222,5

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: qc433888,136222,5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2467478.3	99.5436	%	1.21287				1.22%
Y	162190.9	97.5296	%	1.22983				1.26%
Ag 328.068†	-104.6	-0.2210	ug/L	0.48217	-0.2210	ug/L	0.48217	218.18%
Al 308.215 R†	15260.1	36036.2	ug/L	150.05	36036.2	ug/L	150.05	0.42%
As 188.979†	52.1	6.4121	ug/L	1.18383	6.4121	ug/L	1.18383	18.46%
B 249.677†	13388.8	77.5474	ug/L	2.60364	77.5474	ug/L	2.60364	3.36%
Ba 233.527†	22987.1	321.434	ug/L	2.3430	321.434	ug/L	2.3430	0.73%
Be 313.107†	3016.0	0.9060	ug/L	0.01351	0.9060	ug/L	0.01351	1.49%
Ca 315.887 R†	61275.5	15183.7	ug/L	59.27	15183.7	ug/L	59.27	0.39%
Cd 214.440†	159.3	1.0528	ug/L	0.07250	1.0528	ug/L	0.07250	6.89%
Co 228.616†	1873.6	40.4323	ug/L	0.40417	40.4323	ug/L	0.40417	1.00%
Cr 267.716†	39991.3	295.401	ug/L	2.9764	295.401	ug/L	2.9764	1.01%
Cu 324.752†	13309.6	84.4850	ug/L	0.71583	84.4850	ug/L	0.71583	0.85%
Fe 238.204 R†	133635.8	77845.6	ug/L	1367.31	77845.6	ug/L	1367.31	1.76%
K 766.490 R†	6782.3	2624.36	ug/L	23.200	2624.36	ug/L	23.200	0.88%
Mg 279.077 R†	6636.1	15931.6	ug/L	106.94	15931.6	ug/L	106.94	0.67%
Mn 257.610†	440449.8	1051.17	ug/L	8.195	1051.17	ug/L	8.195	0.78%
Mo 202.031†	-1.0	-0.0309	ug/L	0.65051	-0.0309	ug/L	0.65051	>999.9%
Na 589.592 R†	303467.8	961.383	ug/L	25.9506	961.383	ug/L	25.9506	2.70%
Ni 231.604†	15134.0	219.166	ug/L	2.2235	219.166	ug/L	2.2235	1.01%
Pb 220.353†	2442.0	80.7490	ug/L	1.41296	80.7490	ug/L	1.41296	1.75%
Sb 206.836†	155.4	7.4972	ug/L	1.55062	7.4972	ug/L	1.55062	20.68%
Se 196.026†	-143.5	-12.6162	ug/L	2.18748	-12.6162	ug/L	2.18748	17.34%
Ti 334.940 R†	1543333.5	2631.39	ug/L	7.234	2631.39	ug/L	7.234	0.27%
Tl 190.801†	-24.2	-2.7826	ug/L	0.87344	-2.7826	ug/L	0.87344	31.39%
V 292.402†	30053.3	179.612	ug/L	0.8924	179.612	ug/L	0.8924	0.50%
Zn 206.200†	15048.0	284.232	ug/L	2.1863	284.232	ug/L	2.1863	0.77%
Sn 189.927†	67.0	4.3060	ug/L	0.59934	4.3060	ug/L	0.59934	13.92%

Sequence No.: 18
Sample ID: qc433889,136222,1,s8385
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 3/21/2008 12:20:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: qc433889,136222,1,s8385 1(80,5878,100

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

3/31/08

Mean Data: qc433889,136222,1,s8385

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2457888.3	99.1567	%	0.59540				0.60%
Y	167661.3	100.819	%	0.7570				0.75%
Ag 328.068†	81720.3	172.659	ug/L	1.4419	172.659	ug/L	1.4419	0.84%
Al 308.215 R†	74400.2	175693	ug/L	2808.1	175693	ug/L	2808.1	1.60%
As 188.979†	7757.2	955.355	ug/L	35.2196	955.355	ug/L	35.2196	3.69%
B 249.677†	212466.5	1230.60	ug/L	9.465	1230.60	ug/L	9.465	0.77%
Ba 233.527†	228209.2	3191.10	ug/L	9.824	3191.10	ug/L	9.824	0.31%
Be 313.107†	166533.9	50.0279	ug/L	0.23636	50.0279	ug/L	0.23636	0.47%
Ca 315.887 R†	337270.7	83573.9	ug/L	1172.62	83573.9	ug/L	1172.62	1.40%
Cd 214.440†	27826.5	183.859	ug/L	4.9099	183.859	ug/L	4.9099	2.67%
Co 228.616†	25501.5	601.488	ug/L	14.6236	601.488	ug/L	14.6236	2.43%
Cr 267.716†	416216.8	3074.44	ug/L	16.493	3074.44	ug/L	16.493	0.54%
Cu 324.752†	96644.8	613.471	ug/L	2.2911	613.471	ug/L	2.2911	0.37%
Fe 238.204 R†	589299.4	343279	ug/L	4000.0	343279	ug/L	4000.0	1.17%
K 766.490 R†	53810.7	20821.5	ug/L	308.26	20821.5	ug/L	308.26	1.48%
Mg 279.077 R†	36128.3	86734.7	ug/L	1737.66	86734.7	ug/L	1737.66	2.00%
Mn 257.610†	2078964.0	4961.60	ug/L	19.076	4961.60	ug/L	19.076	0.38%
Mo 202.031†	11863.7	373.363	ug/L	10.5067	373.363	ug/L	10.5067	2.81%
Na 589.592 R†	7190006.3	22777.9	ug/L	225.91	22777.9	ug/L	225.91	0.99%
Ni 231.604†	95596.7	1384.40	ug/L	5.855	1384.40	ug/L	5.855	0.42%
Pb 220.353†	62889.5	2079.53	ug/L	66.839	2079.53	ug/L	66.839	3.21%
Sb 206.836†	38206.6	1843.66	ug/L	46.896	1843.66	ug/L	46.896	2.54%
Se 196.026†	9825.2	863.687	ug/L	30.1216	863.687	ug/L	30.1216	3.49%
Ti 334.940 R†	7365379.5	12558.0	ug/L	193.39	12558.0	ug/L	193.39	1.54%
Tl 190.801†	7161.4	822.510	ug/L	36.9545	822.510	ug/L	36.9545	4.49%
V 292.402†	209509.7	1252.12	ug/L	5.066	1252.12	ug/L	5.066	0.40%
Zn 206.200†	89106.1	1683.06	ug/L	7.901	1683.06	ug/L	7.901	0.47%
Sn 189.927†	13873.6	891.651	ug/L	23.1349	891.651	ug/L	23.1349	2.59%

Sequence No.: 19
Sample ID: 202043-002,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 3/21/2008 12:23:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-002,136222,1

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: 202043-002,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2444713.4	98.6252	%	0.11356				0.12%
Y	165463.6	99.4976	%	2.43590				2.45%
Ag 328.068†	-1319.4	-2.7877	ug/L	0.43328	-2.7877	ug/L	0.43328	15.54%
Al 308.215 R†	80263.2	189538	ug/L	3002.9	189538	ug/L	3002.9	1.58%
As 188.979†	111.5	13.7281	ug/L	1.23982	13.7281	ug/L	1.23982	9.03%
B 249.677†	48555.7	281.233	ug/L	5.7849	281.233	ug/L	5.7849	2.06%
Ba 233.527†	93212.1	1303.41	ug/L	1.635	1303.41	ug/L	1.635	0.13%
Be 313.107†	16166.6	4.8566	ug/L	0.03831	4.8566	ug/L	0.03831	0.79%
Ca 315.887 R†	222493.8	55132.8	ug/L	815.35	55132.8	ug/L	815.35	1.48%
Cd 214.440†	491.4	3.2469	ug/L	0.07659	3.2469	ug/L	0.07659	2.36%
Co 228.616†	8763.3	186.811	ug/L	0.6263	186.811	ug/L	0.6263	0.34%
Cr 267.716†	202850.0	1498.38	ug/L	2.353	1498.38	ug/L	2.353	0.16%
Cu 324.752†	29278.8	185.853	ug/L	0.2924	185.853	ug/L	0.2924	0.16%
Fe 238.204 R†	583495.3	339898	ug/L	9038.1	339898	ug/L	9038.1	2.66%
K 766.490 R†	28680.7	11097.7	ug/L	178.86	11097.7	ug/L	178.86	1.61%
Mg 279.077 R†	24464.3	58732.5	ug/L	552.37	58732.5	ug/L	552.37	0.94%
Mn 257.610†	1432091.7	3417.79	ug/L	19.098	3417.79	ug/L	19.098	0.56%
Mo 202.031†	-70.9	-2.2321	ug/L	2.43923	-2.2321	ug/L	2.43923	109.28%
Na 589.592 R†	623513.9	1975.29	ug/L	51.876	1975.29	ug/L	51.876	2.63%
Ni 231.604†	64369.5	932.181	ug/L	1.4809	932.181	ug/L	1.4809	0.16%
Pb 220.353†	9328.3	308.453	ug/L	0.9383	308.453	ug/L	0.9383	0.30%
Sb 206.836†	222.0	10.7149	ug/L	3.11973	10.7149	ug/L	3.11973	29.12%
Se 196.026†	-765.6	-67.2982	ug/L	1.70986	-67.2982	ug/L	1.70986	2.54%
Ti 334.940 R†	7831874.9	13353.4	ug/L	148.89	13353.4	ug/L	148.89	1.12%
Tl 190.801†	-199.2	-22.8776	ug/L	0.37801	-22.8776	ug/L	0.37801	1.65%
V 292.402†	160537.3	959.441	ug/L	2.2474	959.441	ug/L	2.2474	0.23%
Zn 206.200†	27757.7	524.295	ug/L	2.0646	524.295	ug/L	2.0646	0.39%
Sn 189.927†	-32.0	-2.0589	ug/L	0.23651	-2.0589	ug/L	0.23651	11.49%

Sequence No.: 20
Sample ID: 202043-003,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 3/21/2008 12:27:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-003,136222,1

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: 202043-003,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2489885.8	100.448	%	1.5674				1.56%
Y	172527.1	103.745	%	1.8569				1.79%
Ag 328.068†	-1236.5	-2.6124	ug/L	0.36864	-2.6124	ug/L	0.36864	14.11%
Al 308.215 Rt	56822.8	134185	ug/L	1163.0	134185	ug/L	1163.0	0.87%
As 188.979†	115.8	14.2555	ug/L	1.38326	14.2555	ug/L	1.38326	9.70%
B 249.677†	40601.4	235.162	ug/L	5.2107	235.162	ug/L	5.2107	2.22%
Ba 233.527†	59969.6	838.569	ug/L	6.1004	838.569	ug/L	6.1004	0.73%
Be 313.107†	10492.3	3.1520	ug/L	0.07072	3.1520	ug/L	0.07072	2.24%
Ca 315.887 Rt	242972.8	60207.4	ug/L	488.68	60207.4	ug/L	488.68	0.81%
Cd 214.440†	389.5	2.5733	ug/L	0.03647	2.5733	ug/L	0.03647	1.42%
Co 228.616†	6686.6	141.078	ug/L	2.8011	141.078	ug/L	2.8011	1.99%
Cr 267.716†	199415.1	1473.01	ug/L	9.979	1473.01	ug/L	9.979	0.68%
Cu 324.752†	19727.1	125.222	ug/L	0.8576	125.222	ug/L	0.8576	0.68%
Fe 238.204 Rt	503662.0	293393	ug/L	6773.9	293393	ug/L	6773.9	2.31%
K 766.490 Rt	16602.0	6423.98	ug/L	45.358	6423.98	ug/L	45.358	0.71%
Mg 279.077 Rt	24586.5	59025.9	ug/L	500.22	59025.9	ug/L	500.22	0.85%
Mn 257.610†	1211725.3	2891.87	ug/L	18.429	2891.87	ug/L	18.429	0.64%
Mo 202.031†	-60.8	-1.9122	ug/L	0.69517	-1.9122	ug/L	0.69517	36.36%
Na 589.592 Rt	569744.4	1804.94	ug/L	28.473	1804.94	ug/L	28.473	1.58%
Ni 231.604†	64689.8	936.821	ug/L	5.2093	936.821	ug/L	5.2093	0.56%
Pb 220.353†	783.5	25.9063	ug/L	1.46067	25.9063	ug/L	1.46067	5.64%
Sb 206.836†	169.6	8.1834	ug/L	1.79478	8.1834	ug/L	1.79478	21.93%
Se 196.026†	-694.5	-61.0486	ug/L	2.28883	-61.0486	ug/L	2.28883	3.75%
Ti 334.940 Rt	6366044.6	10854.2	ug/L	59.98	10854.2	ug/L	59.98	0.55%
Tl 190.801†	-165.3	-18.9839	ug/L	1.26184	-18.9839	ug/L	1.26184	6.65%
V 292.402†	132732.6	793.268	ug/L	6.6100	793.268	ug/L	6.6100	0.83%
Zn 206.200†	23591.8	445.609	ug/L	2.0276	445.609	ug/L	2.0276	0.46%
Sn 189.927†	-47.9	-3.0754	ug/L	0.26062	-3.0754	ug/L	0.26062	8.47%

Sequence No.: 21
Sample ID: s8614
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/21/2008 12:31:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: s8614

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: s8614

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2388099.8	96.3413	%	0.12848				0.13%
Y	152696.2	91.8202	%	1.50436				1.64%
Ag 328.068†	476052.1	1005.81	ug/L	2.091	1005.81	ug/L	2.091	0.21%
QC value within limits for Ag 328.068 Recovery = 100.58%								
Al 308.215 R†	8589.2	20283.1	ug/L	217.95	20283.1	ug/L	217.95	1.07%
QC value within limits for Al 308.215 R Recovery = 101.42%								
As 188.979†	40789.0	5023.47	ug/L	104.759	5023.47	ug/L	104.759	2.09%
QC value within limits for As 188.979 Recovery = 100.47%								
B 249.677†	874664.6	5066.03	ug/L	16.365	5066.03	ug/L	16.365	0.32%
QC value within limits for B 249.677 Recovery = 101.32%								
Ba 233.527†	364347.6	5094.75	ug/L	4.267	5094.75	ug/L	4.267	0.08%
QC value within limits for Ba 233.527 Recovery = 101.90%								
Be 313.107†	1683726.0	505.803	ug/L	0.3623	505.803	ug/L	0.3623	0.07%
QC value within limits for Be 313.107 Recovery = 101.16%								
Ca 315.887 R†	83831.1	20772.9	ug/L	272.08	20772.9	ug/L	272.08	1.31%
QC value within limits for Ca 315.887 R Recovery = 103.86%								
Cd 214.440†	776268.3	5129.06	ug/L	20.052	5129.06	ug/L	20.052	0.39%
QC value within limits for Cd 214.440 Recovery = 102.58%								
Co 228.616†	200306.6	4930.38	ug/L	6.526	4930.38	ug/L	6.526	0.13%
QC value within limits for Co 228.616 Recovery = 98.61%								
Cr 267.716†	670263.9	4950.99	ug/L	5.732	4950.99	ug/L	5.732	0.12%
QC value within limits for Cr 267.716 Recovery = 99.02%								
Cu 324.752†	774281.5	4914.90	ug/L	7.530	4914.90	ug/L	7.530	0.15%
QC value within limits for Cu 324.752 Recovery = 98.30%								
Fe 238.204 R†	37550.2	21873.7	ug/L	314.57	21873.7	ug/L	314.57	1.44%
QC value within limits for Fe 238.204 R Recovery = 109.37%								
K 766.490 R†	52755.5	20413.2	ug/L	215.15	20413.2	ug/L	215.15	1.05%
QC value within limits for K 766.490 R Recovery = 102.07%								
Mg 279.077 R†	8697.7	20880.8	ug/L	162.19	20880.8	ug/L	162.19	0.78%
QC value within limits for Mg 279.077 R Recovery = 104.40%								
Mn 257.610†	2119271.6	5057.80	ug/L	10.264	5057.80	ug/L	10.264	0.20%
QC value within limits for Mn 257.610 Recovery = 101.16%								
Mo 202.031†	157577.3	4959.14	ug/L	136.665	4959.14	ug/L	136.665	2.76%
QC value within limits for Mo 202.031 Recovery = 99.18%								
Na 589.592 R†	6811307.4	21578.1	ug/L	179.78	21578.1	ug/L	179.78	0.83%
QC value within limits for Na 589.592 R Recovery = 107.89%								
Ni 231.604†	341899.2	4951.29	ug/L	10.686	4951.29	ug/L	10.686	0.22%
QC value within limits for Ni 231.604 Recovery = 99.03%								
Pb 220.353†	146479.9	4843.57	ug/L	163.853	4843.57	ug/L	163.853	3.38%
QC value within limits for Pb 220.353 Recovery = 96.87%								
Sb 206.836†	103614.4	4999.91	ug/L	94.137	4999.91	ug/L	94.137	1.88%
QC value within limits for Sb 206.836 Recovery = 100.00%								
Se 196.026†	56676.2	4982.14	ug/L	176.551	4982.14	ug/L	176.551	3.54%
QC value within limits for Se 196.026 Recovery = 99.64%								
Ti 334.940 R†	2968952.2	5062.08	ug/L	4.783	5062.08	ug/L	4.783	0.09%
QC value within limits for Ti 334.940 R Recovery = 101.24%								
Tl 190.801†	42747.1	4909.67	ug/L	99.318	4909.67	ug/L	99.318	2.02%
QC value within limits for Tl 190.801 Recovery = 98.19%								
V 292.402†	829957.0	4960.18	ug/L	4.683	4960.18	ug/L	4.683	0.09%
QC value within limits for V 292.402 Recovery = 99.20%								
Zn 206.200†	262025.3	4949.21	ug/L	8.500	4949.21	ug/L	8.500	0.17%
QC value within limits for Zn 206.200 Recovery = 98.98%								
Sn 189.927†	76947.4	4945.37	ug/L	110.695	4945.37	ug/L	110.695	2.24%
QC value within limits for Sn 189.927 Recovery = 98.91%								

All analyte(s) passed QC.

Sequence No.: 23
Sample ID: ccb
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/21/2008 12:39:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ccb

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2446271.7	98.6881	%	0.48259				0.49%
Y	156369.9	94.0294	%	4.42236				4.70%
Ag 328.068†	-97.7	-0.2065	ug/L	0.63870	-0.2065	ug/L	0.63870	309.33%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	-5.2	-12.1622	ug/L	12.94691	-12.1622	ug/L	12.94691	106.45%
QC value within limits for Al 308.215 R Recovery = Not calculated								
As 188.979†	-0.3	-0.0328	ug/L	2.39943	-0.0328	ug/L	2.39943	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	1597.5	9.2524	ug/L	0.24105	9.2524	ug/L	0.24105	2.61%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	13.5	0.1888	ug/L	0.00667	0.1888	ug/L	0.00667	3.53%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	227.0	0.0682	ug/L	0.01679	0.0682	ug/L	0.01679	24.62%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	-51.8	-12.8394	ug/L	2.01052	-12.8394	ug/L	2.01052	15.66%
QC value within limits for Ca 315.887 R Recovery = Not calculated								
Cd 214.440†	51.9	0.3430	ug/L	0.14613	0.3430	ug/L	0.14613	42.60%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	4.0	0.0970	ug/L	0.08545	0.0970	ug/L	0.08545	88.09%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	14.2	0.1050	ug/L	0.09757	0.1050	ug/L	0.09757	92.92%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	141.6	0.8991	ug/L	0.33155	0.8991	ug/L	0.33155	36.87%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204 R†	-46.0	-26.7996	ug/L	4.16344	-26.7996	ug/L	4.16344	15.54%
QC value within limits for Fe 238.204 R Recovery = Not calculated								
K 766.490 R†	-193.4	-74.8222	ug/L	89.17133	-74.8222	ug/L	89.17133	119.18%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	-17.8	-42.7413	ug/L	9.55228	-42.7413	ug/L	9.55228	22.35%
QC value within limits for Mg 279.077 R Recovery = Not calculated								
Mn 257.610†	52.6	0.1256	ug/L	0.02781	0.1256	ug/L	0.02781	22.15%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	26.0	0.8179	ug/L	0.12123	0.8179	ug/L	0.12123	14.82%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 R†	-1462.4	-4.6330	ug/L	1.13801	-4.6330	ug/L	1.13801	24.56%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	28.1	0.4067	ug/L	0.23567	0.4067	ug/L	0.23567	57.94%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	9.2	0.3034	ug/L	0.49760	0.3034	ug/L	0.49760	163.99%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	43.3	2.0874	ug/L	0.95858	2.0874	ug/L	0.95858	45.92%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.5	0.1334	ug/L	1.41472	0.1334	ug/L	1.41472	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ti 334.940 R†	220.3	0.3756	ug/L	0.07463	0.3756	ug/L	0.07463	19.87%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	6.1	0.6997	ug/L	0.65751	0.6997	ug/L	0.65751	93.97%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	50.6	0.3024	ug/L	0.03668	0.3024	ug/L	0.03668	12.13%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	13.6	0.2568	ug/L	0.06421	0.2568	ug/L	0.06421	25.01%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Sn 189.927†	12.0	0.7707	ug/L	0.15151	0.7707	ug/L	0.15151	19.66%
QC value within limits for Sn 189.927 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 24
Sample ID: 202043-004,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 3/21/2008 12:43:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-004,136222,1

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: 202043-004,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2482633.1	100.155	%	1.8762				1.87%
Y	165380.3	99.4476	%	2.05743				2.07%
Ag 328.068†	-1219.9	-2.5774	ug/L	0.12668	-2.5774	ug/L	0.12668	4.91%
Al 308.215 R†	52533.4	124056	ug/L	965.4	124056	ug/L	965.4	0.78%
As 188.979†	-43.0	-5.2931	ug/L	0.98009	-5.2931	ug/L	0.98009	18.52%
B 249.677†	44903.0	260.077	ug/L	4.3447	260.077	ug/L	4.3447	1.67%
Ba 233.527†	54103.5	756.541	ug/L	12.2931	756.541	ug/L	12.2931	1.62%
Be 313.107†	12737.4	3.8264	ug/L	0.07778	3.8264	ug/L	0.07778	2.03%
Ca 315.887 R†	182941.7	45332.0	ug/L	269.54	45332.0	ug/L	269.54	0.59%
Cd 214.440†	681.0	4.4994	ug/L	0.11816	4.4994	ug/L	0.11816	2.63%
Co 228.616†	6869.2	147.769	ug/L	2.5596	147.769	ug/L	2.5596	1.73%
Cr 267.716†	157399.8	1162.65	ug/L	20.792	1162.65	ug/L	20.792	1.79%
Cu 324.752†	18119.0	115.014	ug/L	3.0796	115.014	ug/L	3.0796	2.68%
Fe 238.204 R†	571245.6	332762	ug/L	4358.2	332762	ug/L	4358.2	1.31%
K 766.490 R†	13972.3	5406.44	ug/L	63.342	5406.44	ug/L	63.342	1.17%
Mg 279.077 R†	23590.4	56634.4	ug/L	703.42	56634.4	ug/L	703.42	1.24%
Mn 257.610†	926953.3	2212.24	ug/L	7.588	2212.24	ug/L	7.588	0.34%
Mo 202.031†	-44.5	-1.4000	ug/L	1.03584	-1.4000	ug/L	1.03584	73.99%
Na 589.592 R†	588909.4	1865.66	ug/L	11.440	1865.66	ug/L	11.440	0.61%
Ni 231.604†	61442.9	889.799	ug/L	16.1670	889.799	ug/L	16.1670	1.82%
Pb 220.353†	650.6	21.5120	ug/L	1.51324	21.5120	ug/L	1.51324	7.03%
Sb 206.836†	155.8	7.5185	ug/L	1.81168	7.5185	ug/L	1.81168	24.10%
Se 196.026†	-801.2	-70.4327	ug/L	0.32145	-70.4327	ug/L	0.32145	0.46%
Ti 334.940 R†	5783499.9	9860.91	ug/L	20.269	9860.91	ug/L	20.269	0.21%
Tl 190.801†	-143.1	-16.4320	ug/L	0.77504	-16.4320	ug/L	0.77504	4.72%
V 292.402†	120766.0	721.750	ug/L	11.6609	721.750	ug/L	11.6609	1.62%
Zn 206.200†	22898.6	432.516	ug/L	9.6969	432.516	ug/L	9.6969	2.24%
Sn 189.927†	-5.1	-0.3291	ug/L	0.74932	-0.3291	ug/L	0.74932	227.69%

Sequence No.: 25
Sample ID: 202043-005,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 3/21/2008 12:47:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-005,136222,1

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: 202043-005,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2519723.4	101.651	%	1.1676				1.15%
Y	177262.3	106.593	%	1.7081				1.60%
Ag 328.068†	-700.5	-1.4799	ug/L	0.37068	-1.4799	ug/L	0.37068	25.05%
Al 308.215 R†	52328.2	123571	ug/L	2476.7	123571	ug/L	2476.7	2.00%
As 188.979†	287.9	35.4555	ug/L	3.01943	35.4555	ug/L	3.01943	8.52%
B 249.677†	43380.0	251.256	ug/L	9.4014	251.256	ug/L	9.4014	3.74%
Ba 233.527†	87179.2	1219.05	ug/L	26.711	1219.05	ug/L	26.711	2.19%
Be 313.107†	11210.9	3.3678	ug/L	0.07615	3.3678	ug/L	0.07615	2.26%
Ca 315.887 R†	204950.1	50785.5	ug/L	976.39	50785.5	ug/L	976.39	1.92%
Cd 214.440†	698.5	4.6153	ug/L	0.06667	4.6153	ug/L	0.06667	1.44%
Co 228.616†	5837.1	120.832	ug/L	2.3319	120.832	ug/L	2.3319	1.93%
Cr 267.716†	171879.6	1269.61	ug/L	30.463	1269.61	ug/L	30.463	2.40%
Cu 324.752†	32019.9	203.252	ug/L	4.6593	203.252	ug/L	4.6593	2.29%
Fe 238.204 R†	500608.1	291614	ug/L	6901.7	291614	ug/L	6901.7	2.37%
K 766.490 R†	15631.0	6048.26	ug/L	107.647	6048.26	ug/L	107.647	1.78%
Mg 279.077 R†	20341.1	48833.7	ug/L	505.74	48833.7	ug/L	505.74	1.04%
Mn 257.610†	1152893.9	2751.47	ug/L	62.712	2751.47	ug/L	62.712	2.28%
Mo 202.031†	9.6	0.3015	ug/L	0.74800	0.3015	ug/L	0.74800	248.06%
Na 589.592 R†	614002.6	1945.15	ug/L	61.233	1945.15	ug/L	61.233	3.15%
Ni 231.604†	53545.9	775.437	ug/L	19.8737	775.437	ug/L	19.8737	2.56%
Pb 220.353†	129933.3	4296.43	ug/L	137.688	4296.43	ug/L	137.688	3.20%
Sb 206.836†	158.6	7.6518	ug/L	0.93867	7.6518	ug/L	0.93867	12.27%
Se 196.026†	-767.0	-67.4208	ug/L	3.18394	-67.4208	ug/L	3.18394	4.72%
Ti 334.940 R†	6176734.6	10531.4	ug/L	223.86	10531.4	ug/L	223.86	2.13%
Tl 190.801†	-161.5	-18.5475	ug/L	1.62465	-18.5475	ug/L	1.62465	8.76%
V 292.402†	120553.3	720.479	ug/L	16.7735	720.479	ug/L	16.7735	2.33%
Zn 206.200†	185391.1	3501.72	ug/L	92.456	3501.72	ug/L	92.456	2.64%
Sn 189.927†	2558.7	164.448	ug/L	3.8507	164.448	ug/L	3.8507	2.34%

Sequence No.: 26
Sample ID: 202043-006,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 3/21/2008 12:53:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-006,136222,1

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: 202043-006,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2475118.5	99.8519	%	0.43743				0.44%
Y	169536.0	101.946	%	2.8125				2.76%
Ag 328.068†	-1280.7	-2.7060	ug/L	0.55987	-2.7060	ug/L	0.55987	20.69%
Al 308.215 Rt	71907.8	169808	ug/L	2519.0	169808	ug/L	2519.0	1.48%
As 188.979†	96.3	11.8660	ug/L	3.00175	11.8660	ug/L	3.00175	25.30%
B 249.677†	50205.4	290.788	ug/L	3.1657	290.788	ug/L	3.1657	1.09%
Ba 233.527†	88294.9	1234.65	ug/L	6.644	1234.65	ug/L	6.644	0.54%
Be 313.107†	13256.6	3.9824	ug/L	0.01959	3.9824	ug/L	0.01959	0.49%
Ca 315.887 Rt	184569.7	45735.4	ug/L	602.60	45735.4	ug/L	602.60	1.32%
Cd 214.440†	602.2	3.9789	ug/L	0.07806	3.9789	ug/L	0.07806	1.96%
Co 228.616†	7650.8	162.501	ug/L	0.4022	162.501	ug/L	0.4022	0.25%
Cr 267.716†	250981.6	1853.91	ug/L	9.343	1853.91	ug/L	9.343	0.50%
Cu 324.752†	19972.9	126.782	ug/L	1.2696	126.782	ug/L	1.2696	1.00%
Fe 238.204 Rt	626331.3	364851	ug/L	8748.5	364851	ug/L	8748.5	2.40%
K 766.490 Rt	14637.0	5663.65	ug/L	65.271	5663.65	ug/L	65.271	1.15%
Mg 279.077 Rt	26055.5	62552.7	ug/L	594.72	62552.7	ug/L	594.72	0.95%
Mn 257.610†	964895.3	2302.79	ug/L	11.424	2302.79	ug/L	11.424	0.50%
Mo 202.031†	-210.9	-6.6363	ug/L	2.14130	-6.6363	ug/L	2.14130	32.27%
Na 589.592 Rt	793689.6	2514.40	ug/L	43.637	2514.40	ug/L	43.637	1.74%
Ni 231.604†	80757.0	1169.50	ug/L	7.421	1169.50	ug/L	7.421	0.63%
Pb 220.353†	4186.6	138.435	ug/L	0.9620	138.435	ug/L	0.9620	0.69%
Sb 206.836†	228.4	11.0204	ug/L	0.36543	11.0204	ug/L	0.36543	3.32%
Se 196.026†	-920.4	-80.9122	ug/L	2.94873	-80.9122	ug/L	2.94873	3.64%
Ti 334.940 Rt	6996143.3	11928.5	ug/L	90.89	11928.5	ug/L	90.89	0.76%
Tl 190.801†	-197.9	-22.7285	ug/L	0.55401	-22.7285	ug/L	0.55401	2.44%
V 292.402†	141177.4	843.738	ug/L	3.7516	843.738	ug/L	3.7516	0.44%
Zn 206.200†	28463.4	537.625	ug/L	2.7327	537.625	ug/L	2.7327	0.51%
Sn 189.927†	33.3	2.1392	ug/L	0.84045	2.1392	ug/L	0.84045	39.29%

Sequence No.: 27
Sample ID: 202043-007,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 3/21/2008 12:57:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-007,136222,1

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: 202043-007,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2434291.0	98.2048	%	0.61081				0.62%
Y	165469.5	99.5012	%	0.36856				0.37%
Ag 328.068†	-1627.2	-3.4380	ug/L	0.55489	-3.4380	ug/L	0.55489	16.14%
Al 308.215 Rt	66529.0	157106	ug/L	1187.7	157106	ug/L	1187.7	0.76%
As 188.979†	266.2	32.7793	ug/L	2.90289	32.7793	ug/L	2.90289	8.86%
B 249.677†	55275.3	320.153	ug/L	9.2209	320.153	ug/L	9.2209	2.88%
Ba 233.527†	69745.0	975.260	ug/L	7.5604	975.260	ug/L	7.5604	0.78%
Be 313.107†	12867.4	3.8655	ug/L	0.02931	3.8655	ug/L	0.02931	0.76%
Ca 315.887 Rt	262598.8	65070.6	ug/L	527.56	65070.6	ug/L	527.56	0.81%
Cd 214.440†	689.0	4.5522	ug/L	0.03501	4.5522	ug/L	0.03501	0.77%
Co 228.616†	8071.0	169.814	ug/L	0.4053	169.814	ug/L	0.4053	0.24%
Cr 267.716†	262923.5	1942.12	ug/L	14.360	1942.12	ug/L	14.360	0.74%
Cu 324.752†	22464.1	142.595	ug/L	1.1476	142.595	ug/L	1.1476	0.80%
Fe 238.204 Rt	683069.5	397902	ug/L	3902.4	397902	ug/L	3902.4	0.98%
K 766.490 Rt	16275.4	6297.58	ug/L	51.090	6297.58	ug/L	51.090	0.81%
Mg 279.077 Rt	29038.4	69713.7	ug/L	913.90	69713.7	ug/L	913.90	1.31%
Mn 257.610†	1547160.8	3692.41	ug/L	28.524	3692.41	ug/L	28.524	0.77%
Mo 202.031†	-272.4	-8.5719	ug/L	0.77699	-8.5719	ug/L	0.77699	9.06%
Na 589.592 Rt	821773.9	2603.37	ug/L	14.825	2603.37	ug/L	14.825	0.57%
Ni 231.604†	76643.6	1109.93	ug/L	7.252	1109.93	ug/L	7.252	0.65%
Pb 220.353†	4229.0	139.838	ug/L	1.1105	139.838	ug/L	1.1105	0.79%
Sb 206.836†	199.7	9.6362	ug/L	2.03873	9.6362	ug/L	2.03873	21.16%
Se 196.026†	-1075.3	-94.5273	ug/L	3.86195	-94.5273	ug/L	3.86195	4.09%
Ti 334.940 Rt	7810265.2	13316.6	ug/L	126.97	13316.6	ug/L	126.97	0.95%
Tl 190.801†	-224.6	-25.7924	ug/L	1.39177	-25.7924	ug/L	1.39177	5.40%
V 292.402†	170354.6	1018.11	ug/L	7.645	1018.11	ug/L	7.645	0.75%
Zn 206.200†	28348.2	535.449	ug/L	3.1152	535.449	ug/L	3.1152	0.58%
Sn 189.927†	-72.2	-4.6431	ug/L	0.14357	-4.6431	ug/L	0.14357	3.09%

Sequence No.: 28
Sample ID: 202043-008,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 3/21/2008 1:01:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-008,136222,1

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: 202043-008,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2421087.5	97.6721	%	1.59204				1.63%
Y	158419.7	95.2619	%	4.03753				4.24%
Ag 328.068†	-306.3	-0.6472	ug/L	0.97911	-0.6472	ug/L	0.97911	151.28%
Al 308.215 R†	62414.1	147389	ug/L	4791.9	147389	ug/L	4791.9	3.25%
As 188.979†	185.3	22.8199	ug/L	1.10563	22.8199	ug/L	1.10563	4.85%
B 249.677†	47276.4	273.824	ug/L	6.3583	273.824	ug/L	6.3583	2.32%
Ba 233.527†	96025.8	1342.75	ug/L	3.607	1342.75	ug/L	3.607	0.27%
Be 313.107†	11669.4	3.5056	ug/L	0.03085	3.5056	ug/L	0.03085	0.88%
Ca 315.887 R†	315775.7	78247.5	ug/L	2317.77	78247.5	ug/L	2317.77	2.96%
Cd 214.440†	897.9	5.9327	ug/L	0.09310	5.9327	ug/L	0.09310	1.57%
Co 228.616†	6782.0	142.092	ug/L	2.0181	142.092	ug/L	2.0181	1.42%
Cr 267.716†	192169.2	1419.48	ug/L	3.874	1419.48	ug/L	3.874	0.27%
Cu 324.752†	56831.9	360.751	ug/L	1.0976	360.751	ug/L	1.0976	0.30%
Fe 238.204 R†	554114.3	322783	ug/L	10771.8	322783	ug/L	10771.8	3.34%
K 766.490 R†	27602.1	10680.4	ug/L	373.79	10680.4	ug/L	373.79	3.50%
Mg 279.077 R†	28803.4	69149.5	ug/L	1965.00	69149.5	ug/L	1965.00	2.84%
Mn 257.610†	1464846.3	3495.97	ug/L	15.667	3495.97	ug/L	15.667	0.45%
Mo 202.031†	-181.5	-5.7124	ug/L	2.52241	-5.7124	ug/L	2.52241	44.16%
Na 589.592 R†	790422.7	2504.05	ug/L	76.115	2504.05	ug/L	76.115	3.04%
Ni 231.604†	62920.5	911.198	ug/L	4.6166	911.198	ug/L	4.6166	0.51%
Pb 220.353†	23938.0	791.545	ug/L	10.6001	791.545	ug/L	10.6001	1.34%
Sb 206.836†	157.7	7.6094	ug/L	2.01526	7.6094	ug/L	2.01526	26.48%
Se 196.026†	-746.6	-65.6299	ug/L	1.02631	-65.6299	ug/L	1.02631	1.56%
Ti 334.940 R†	6723337.8	11463.3	ug/L	166.28	11463.3	ug/L	166.28	1.45%
Tl 190.801†	-180.2	-20.6985	ug/L	2.40927	-20.6985	ug/L	2.40927	11.64%
V 292.402†	137204.2	819.992	ug/L	3.3385	819.992	ug/L	3.3385	0.41%
Zn 206.200†	120149.6	2269.42	ug/L	6.916	2269.42	ug/L	6.916	0.30%
Sn 189.927†	581.3	37.3620	ug/L	0.67700	37.3620	ug/L	0.67700	1.81%

Sequence No.: 29
Sample ID: 202043-009,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 3/21/2008 1:05:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-009,136222,1

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: 202043-009,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2416242.0	97.4766	%	0.35451				0.36%
Y	166703.9	100.243	%	0.6114				0.61%
Ag 328.068†	890.3	1.8810	ug/L	0.81572	1.8810	ug/L	0.81572	43.37%
Al 308.215 R†	60468.8	142795	ug/L	711.6	142795	ug/L	711.6	0.50%
As 188.979†	623.9	76.8348	ug/L	1.49227	76.8348	ug/L	1.49227	1.94%
B 249.677†	56653.0	328.133	ug/L	4.3421	328.133	ug/L	4.3421	1.32%
Ba 233.527†	109572.8	1532.18	ug/L	7.064	1532.18	ug/L	7.064	0.46%
Be 313.107†	12622.5	3.7919	ug/L	0.01478	3.7919	ug/L	0.01478	0.39%
Ca 315.887 R†	419168.5	103868	ug/L	420.2	103868	ug/L	420.2	0.40%
Cd 214.440†	2225.4	14.7038	ug/L	0.04861	14.7038	ug/L	0.04861	0.33%
Co 228.616†	8333.7	177.825	ug/L	0.4892	177.825	ug/L	0.4892	0.28%
Cr 267.716†	177365.8	1310.14	ug/L	0.251	1310.14	ug/L	0.251	0.02%
Cu 324.752†	88263.5	560.269	ug/L	3.3186	560.269	ug/L	3.3186	0.59%
Fe 238.204 R†	539693.4	314382	ug/L	7483.0	314382	ug/L	7483.0	2.38%
K 766.490 R†	33811.1	13082.8	ug/L	152.20	13082.8	ug/L	152.20	1.16%
Mg 279.077 R†	32058.7	76964.7	ug/L	478.95	76964.7	ug/L	478.95	0.62%
Mn 257.610†	1610133.2	3842.70	ug/L	12.632	3842.70	ug/L	12.632	0.33%
Mo 202.031†	-170.4	-5.3630	ug/L	1.38109	-5.3630	ug/L	1.38109	25.75%
Na 589.592 R†	1010769.1	3202.11	ug/L	15.759	3202.11	ug/L	15.759	0.49%
Ni 231.604†	64955.7	940.671	ug/L	1.0381	940.671	ug/L	1.0381	0.11%
Pb 220.353†	75094.1	2483.09	ug/L	5.771	2483.09	ug/L	5.771	0.23%
Sb 206.836†	6.6	0.3199	ug/L	0.68952	0.3199	ug/L	0.68952	215.52%
Se 196.026†	-724.9	-63.7253	ug/L	4.84776	-63.7253	ug/L	4.84776	7.61%
Ti 334.940 R†	7402291.9	12621.0	ug/L	176.72	12621.0	ug/L	176.72	1.40%
Tl 190.801†	-189.0	-21.7047	ug/L	1.54641	-21.7047	ug/L	1.54641	7.12%
V 292.402†	142278.1	850.316	ug/L	1.7099	850.316	ug/L	1.7099	0.20%
Zn 206.200†	455958.0	8612.27	ug/L	43.133	8612.27	ug/L	43.133	0.50%
Sn 189.927†	4023.3	258.577	ug/L	1.6260	258.577	ug/L	1.6260	0.63%

Sequence No.: 34
Sample ID: s8614
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/21/2008 1:24:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: s8614

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: s8614

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2311196.6	93.2389	%	1.79573				1.93%
Y	149821.1	90.0914	%	0.39895				0.44%
Ag 328.068†	488000.4	1031.05	ug/L	9.962	1031.05	ug/L	9.962	0.97%
QC value within limits for Ag 328.068 Recovery = 103.10%								
Al 308.215 R†	8725.9	20605.8	ug/L	193.70	20605.8	ug/L	193.70	0.94%
QC value within limits for Al 308.215 R Recovery = 103.03%								
As 188.979†	41943.5	5165.65	ug/L	81.484	5165.65	ug/L	81.484	1.58%
QC value within limits for As 188.979 Recovery = 103.31%								
B 249.677†	899680.4	5210.93	ug/L	47.669	5210.93	ug/L	47.669	0.91%
QC value within limits for B 249.677 Recovery = 104.22%								
Ba 233.527†	375814.8	5255.10	ug/L	66.972	5255.10	ug/L	66.972	1.27%
QC value within limits for Ba 233.527 Recovery = 105.10%								
Be 313.107†	1734653.7	521.102	ug/L	5.7800	521.102	ug/L	5.7800	1.11%
QC value within limits for Be 313.107 Recovery = 104.22%								
Ca 315.887 R†	85549.1	21198.6	ug/L	207.67	21198.6	ug/L	207.67	0.98%
QC value within limits for Ca 315.887 R Recovery = 105.99%								
Cd 214.440†	803486.3	5308.90	ug/L	65.608	5308.90	ug/L	65.608	1.24%
QC value within limits for Cd 214.440 Recovery = 106.18%								
Co 228.616†	205842.8	5066.62	ug/L	55.908	5066.62	ug/L	55.908	1.10%
QC value within limits for Co 228.616 Recovery = 101.33%								
Cr 267.716†	690621.9	5101.37	ug/L	62.692	5101.37	ug/L	62.692	1.23%
QC value within limits for Cr 267.716 Recovery = 102.03%								
Cu 324.752†	794917.1	5045.89	ug/L	78.293	5045.89	ug/L	78.293	1.55%
QC value within limits for Cu 324.752 Recovery = 100.92%								
Fe 238.204 R†	38528.9	22443.9	ug/L	286.66	22443.9	ug/L	286.66	1.28%
QC value greater than the upper limit for Fe 238.204 R Recovery = 112.22%								
K 766.490 R†	53820.5	20825.3	ug/L	132.87	20825.3	ug/L	132.87	0.64%
QC value within limits for K 766.490 R Recovery = 104.13%								
Mg 279.077 R†	8770.7	21056.2	ug/L	162.36	21056.2	ug/L	162.36	0.77%
QC value within limits for Mg 279.077 R Recovery = 105.28%								
Mn 257.610†	2190909.8	5228.77	ug/L	65.299	5228.77	ug/L	65.299	1.25%
QC value within limits for Mn 257.610 Recovery = 104.58%								
Mo 202.031†	164565.7	5179.07	ug/L	58.157	5179.07	ug/L	58.157	1.12%
QC value within limits for Mo 202.031 Recovery = 103.58%								
Na 589.592 R†	6900827.6	21861.7	ug/L	267.91	21861.7	ug/L	267.91	1.23%
QC value within limits for Na 589.592 R Recovery = 109.31%								
Ni 231.604†	351943.4	5096.75	ug/L	57.779	5096.75	ug/L	57.779	1.13%
QC value within limits for Ni 231.604 Recovery = 101.93%								
Pb 220.353†	151044.2	4994.49	ug/L	57.378	4994.49	ug/L	57.378	1.15%
QC value within limits for Pb 220.353 Recovery = 99.89%								
Sb 206.836†	107923.9	5207.86	ug/L	79.680	5207.86	ug/L	79.680	1.53%
QC value within limits for Sb 206.836 Recovery = 104.16%								
Se 196.026†	58459.6	5138.91	ug/L	80.347	5138.91	ug/L	80.347	1.56%
QC value within limits for Se 196.026 Recovery = 102.78%								
Ti 334.940 R†	3060544.2	5218.25	ug/L	67.100	5218.25	ug/L	67.100	1.29%
QC value within limits for Ti 334.940 R Recovery = 104.36%								
Tl 190.801†	44060.2	5060.48	ug/L	74.156	5060.48	ug/L	74.156	1.47%
QC value within limits for Tl 190.801 Recovery = 101.21%								
V 292.402†	855761.0	5114.40	ug/L	62.179	5114.40	ug/L	62.179	1.22%
QC value within limits for V 292.402 Recovery = 102.29%								
Zn 206.200†	269517.1	5090.72	ug/L	57.566	5090.72	ug/L	57.566	1.13%
QC value within limits for Zn 206.200 Recovery = 101.81%								
Sn 189.927†	79937.5	5137.53	ug/L	83.960	5137.53	ug/L	83.960	1.63%
QC value within limits for Sn 189.927 Recovery = 102.75%								

QC Failed. Retry.

Sequence No.: 37
Sample ID: ccb
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/21/2008 1:33:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ccb

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2498285.2	100.786	%	0.7652				0.76%
Y	158932.0	95.5700	%	1.15191				1.21%
Ag 328.068†	-8.1	-0.0171	ug/L	0.31238	-0.0171	ug/L	0.31238	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	-1.0	-2.4650	ug/L	5.53594	-2.4650	ug/L	5.53594	224.58%
QC value within limits for Al 308.215 R Recovery = Not calculated								
As 188.979†	3.7	0.4609	ug/L	0.98448	0.4609	ug/L	0.98448	213.58%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	2164.3	12.5356	ug/L	0.45235	12.5356	ug/L	0.45235	3.61%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	23.3	0.3251	ug/L	0.05460	0.3251	ug/L	0.05460	16.79%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	200.0	0.0601	ug/L	0.02547	0.0601	ug/L	0.02547	42.39%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	-33.5	-8.3110	ug/L	4.52692	-8.3110	ug/L	4.52692	54.47%
QC value within limits for Ca 315.887 R Recovery = Not calculated								
Cd 214.440†	78.5	0.5186	ug/L	0.03934	0.5186	ug/L	0.03934	7.59%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	12.1	0.2962	ug/L	0.18672	0.2962	ug/L	0.18672	63.04%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	34.6	0.2555	ug/L	0.01392	0.2555	ug/L	0.01392	5.45%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	41.8	0.2653	ug/L	0.23619	0.2653	ug/L	0.23619	89.04%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204 R†	-26.1	-15.1796	ug/L	2.75922	-15.1796	ug/L	2.75922	18.18%
QC value within limits for Fe 238.204 R Recovery = Not calculated								
K 766.490 R†	-20.0	-7.7361	ug/L	14.89383	-7.7361	ug/L	14.89383	192.52%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	-12.4	-29.7752	ug/L	9.25740	-29.7752	ug/L	9.25740	31.09%
QC value within limits for Mg 279.077 R Recovery = Not calculated								
Mn 257.610†	172.3	0.4112	ug/L	0.07723	0.4112	ug/L	0.07723	18.78%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	34.2	1.0765	ug/L	0.27095	1.0765	ug/L	0.27095	25.17%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 R†	102.2	0.3236	ug/L	3.43740	0.3236	ug/L	3.43740	>999.9%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	25.4	0.3677	ug/L	0.03496	0.3677	ug/L	0.03496	9.51%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	25.7	0.8494	ug/L	0.55274	0.8494	ug/L	0.55274	65.07%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	17.0	0.8214	ug/L	1.80221	0.8214	ug/L	1.80221	219.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	14.9	1.3096	ug/L	2.34330	1.3096	ug/L	2.34330	178.93%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ti 334.940 R†	457.5	0.7800	ug/L	0.20080	0.7800	ug/L	0.20080	25.74%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	9.8	1.1300	ug/L	0.18950	1.1300	ug/L	0.18950	16.77%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	104.9	0.6267	ug/L	0.04020	0.6267	ug/L	0.04020	6.42%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	33.5	0.6331	ug/L	0.02213	0.6331	ug/L	0.02213	3.50%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Sn 189.927†	8.9	0.5739	ug/L	0.46766	0.5739	ug/L	0.46766	81.49%
QC value within limits for Sn 189.927 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 45
Sample ID: 202043-001,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 3/21/2008 2:18:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-001,136222,1

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: 202043-001,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2448379.8	98.7732	%	0.74413				0.75%
Y	169276.1	101.790	%	0.2396				0.24%
Ag 328.068†	-1152.8	-2.4355	ug/L	0.53464	-2.4355	ug/L	0.53464	21.95%
Al 308.215 Rt	71165.6	168055	ug/L	522.6	168055	ug/L	522.6	0.31%
As 188.979†	225.0	27.7135	ug/L	0.96084	27.7135	ug/L	0.96084	3.47%
B 249.677†	54642.4	316.487	ug/L	4.8101	316.487	ug/L	4.8101	1.52%
Ba 233.527†	104289.7	1458.31	ug/L	3.015	1458.31	ug/L	3.015	0.21%
Be 313.107†	13537.8	4.0669	ug/L	0.12479	4.0669	ug/L	0.12479	3.07%
Ca 315.887 Rt	283276.1	70194.3	ug/L	230.88	70194.3	ug/L	230.88	0.33%
Cd 214.440†	641.2	4.2364	ug/L	0.17093	4.2364	ug/L	0.17093	4.03%
Co 228.616†	8290.5	178.061	ug/L	1.0662	178.061	ug/L	1.0662	0.60%
Cr 267.716†	181001.4	1336.99	ug/L	4.875	1336.99	ug/L	4.875	0.36%
Cu 324.752†	60983.7	387.105	ug/L	2.6389	387.105	ug/L	2.6389	0.68%
Fe 238.204 Rt	594446.9	346277	ug/L	6010.9	346277	ug/L	6010.9	1.74%
K 766.490 Rt	31289.3	12107.1	ug/L	64.34	12107.1	ug/L	64.34	0.53%
Mg 279.077 Rt	30775.2	73883.5	ug/L	519.57	73883.5	ug/L	519.57	0.70%
Mn 257.610†	1958593.0	4674.33	ug/L	14.279	4674.33	ug/L	14.279	0.31%
Mo 202.031†	-219.5	-6.9073	ug/L	3.34009	-6.9073	ug/L	3.34009	48.36%
Na 589.592 Rt	1440911.4	4564.79	ug/L	20.630	4564.79	ug/L	20.630	0.45%
Ni 231.604†	67390.6	975.933	ug/L	0.8783	975.933	ug/L	0.8783	0.09%
Pb 220.353†	10525.5	348.042	ug/L	1.4035	348.042	ug/L	1.4035	0.40%
Sb 206.836†	128.3	6.1925	ug/L	2.45116	6.1925	ug/L	2.45116	39.58%
Se 196.026†	-836.0	-73.4925	ug/L	1.66788	-73.4925	ug/L	1.66788	2.27%
Ti 334.940 Rt	7054875.4	12028.6	ug/L	10.53	12028.6	ug/L	10.53	0.09%
Tl 190.801†	-204.9	-23.5379	ug/L	0.95244	-23.5379	ug/L	0.95244	4.05%
V 292.402†	138047.0	825.029	ug/L	3.9743	825.029	ug/L	3.9743	0.48%
Zn 206.200†	67528.3	1275.49	ug/L	1.116	1275.49	ug/L	1.116	0.09%
Sn 189.927†	173.2	11.1305	ug/L	0.33719	11.1305	ug/L	0.33719	3.03%

Sequence No.: 46
Sample ID: 202043-002,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 3/21/2008 2:22:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-002,136222,1

Analyte	Back Pressure	Flow
All	151.0 kPa	0.55 L/min

Mean Data: 202043-002,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2318800.4	93.5456	%	7.00024				7.48%
Y	175405.7	105.476	%	0.6980				0.66%
Ag 328.068†	-1348.1	-2.8484	ug/L	1.15753	-2.8484	ug/L	1.15753	40.64%
Al 308.215 R†	76345.0	180286	ug/L	3143.4	180286	ug/L	3143.4	1.74%
As 188.979†	90.6	11.1554	ug/L	2.39547	11.1554	ug/L	2.39547	21.47%
B 249.677†	51266.2	296.932	ug/L	31.7898	296.932	ug/L	31.7898	10.71%
Ba 233.527†	96413.3	1348.17	ug/L	131.180	1348.17	ug/L	131.180	9.73%
Be 313.107†	16733.8	5.0269	ug/L	0.64696	5.0269	ug/L	0.64696	12.87%
Ca 315.887 R†	210265.5	52102.6	ug/L	933.19	52102.6	ug/L	933.19	1.79%
Cd 214.440†	505.5	3.3397	ug/L	0.19414	3.3397	ug/L	0.19414	5.81%
Co 228.616†	9082.8	193.304	ug/L	14.7589	193.304	ug/L	14.7589	7.64%
Cr 267.716†	210221.3	1552.83	ug/L	149.889	1552.83	ug/L	149.889	9.65%
Cu 324.752†	30137.6	191.304	ug/L	18.6526	191.304	ug/L	18.6526	9.75%
Fe 238.204 R†	565728.8	329549	ug/L	7836.7	329549	ug/L	7836.7	2.38%
K 766.490 R†	26422.3	10223.8	ug/L	163.57	10223.8	ug/L	163.57	1.60%
Mg 279.077 R†	23257.6	55835.5	ug/L	958.34	55835.5	ug/L	958.34	1.72%
Mn 257.610†	1484164.1	3542.07	ug/L	342.037	3542.07	ug/L	342.037	9.66%
Mo 202.031†	-107.4	-3.3807	ug/L	0.57976	-3.3807	ug/L	0.57976	17.15%
Na 589.592 R†	674728.1	2137.53	ug/L	23.982	2137.53	ug/L	23.982	1.12%
Ni 231.604†	66586.8	964.292	ug/L	93.6623	964.292	ug/L	93.6623	9.71%
Pb 220.353†	9487.7	313.725	ug/L	24.9217	313.725	ug/L	24.9217	7.94%
Sb 206.836†	249.7	12.0516	ug/L	1.72052	12.0516	ug/L	1.72052	14.28%
Se 196.026†	-878.0	-77.1779	ug/L	5.66407	-77.1779	ug/L	5.66407	7.34%
Ti 334.940 R†	8202348.6	13985.1	ug/L	1245.38	13985.1	ug/L	1245.38	8.91%
Tl 190.801†	-226.6	-26.0241	ug/L	1.56459	-26.0241	ug/L	1.56459	6.01%
V 292.402†	166773.4	996.710	ug/L	95.2502	996.710	ug/L	95.2502	9.56%
Zn 206.200†	28546.8	539.201	ug/L	52.5319	539.201	ug/L	52.5319	9.74%
Sn 189.927†	-54.5	-3.5035	ug/L	0.31832	-3.5035	ug/L	0.31832	9.09%

Sequence No.: 47
Sample ID: 202043-003,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 3/21/2008 2:26:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-003,136222,1

Analyte	Back Pressure	Flow
All	151.0 kPa	0.55 L/min

Mean Data: 202043-003,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2467969.9	99.5635	%	0.98340				0.99%
Y	168729.9	101.462	%	0.9029				0.89%
Ag 328.068†	-1150.2	-2.4301	ug/L	0.41950	-2.4301	ug/L	0.41950	17.26%
Al 308.215 Rt	58428.6	137977	ug/L	1894.7	137977	ug/L	1894.7	1.37%
As 188.979†	118.3	14.5732	ug/L	0.36478	14.5732	ug/L	0.36478	2.50%
B 249.677†	40350.6	233.710	ug/L	6.1638	233.710	ug/L	6.1638	2.64%
Ba 233.527†	59607.7	833.507	ug/L	14.1056	833.507	ug/L	14.1056	1.69%
Be 313.107†	10324.1	3.1014	ug/L	0.06084	3.1014	ug/L	0.06084	1.96%
Ca 315.887 Rt	247470.5	61321.8	ug/L	607.16	61321.8	ug/L	607.16	0.99%
Cd 214.440†	399.0	2.6361	ug/L	0.03814	2.6361	ug/L	0.03814	1.45%
Co 228.616†	6658.0	140.380	ug/L	0.5826	140.380	ug/L	0.5826	0.41%
Cr 267.716†	198855.1	1468.87	ug/L	21.491	1468.87	ug/L	21.491	1.46%
Cu 324.752†	19523.6	123.930	ug/L	1.7236	123.930	ug/L	1.7236	1.39%
Fe 238.204 Rt	523472.1	304933	ug/L	7222.5	304933	ug/L	7222.5	2.37%
K 766.490 Rt	16572.4	6412.51	ug/L	49.494	6412.51	ug/L	49.494	0.77%
Mg 279.077 Rt	25213.7	60531.6	ug/L	678.63	60531.6	ug/L	678.63	1.12%
Mn 257.610†	1207639.9	2882.12	ug/L	6.585	2882.12	ug/L	6.585	0.23%
Mo 202.031†	-35.7	-1.1227	ug/L	0.96711	-1.1227	ug/L	0.96711	86.14%
Na 589.592 Rt	644114.0	2040.55	ug/L	24.418	2040.55	ug/L	24.418	1.20%
Ni 231.604†	64176.9	929.393	ug/L	15.1227	929.393	ug/L	15.1227	1.63%
Pb 220.353†	718.7	23.7646	ug/L	0.20349	23.7646	ug/L	0.20349	0.86%
Sb 206.836†	173.8	8.3883	ug/L	1.00300	8.3883	ug/L	1.00300	11.96%
Se 196.026†	-756.5	-66.5030	ug/L	1.39887	-66.5030	ug/L	1.39887	2.10%
Ti 334.940 Rt	6364063.4	10850.8	ug/L	16.52	10850.8	ug/L	16.52	0.15%
Tl 190.801†	-170.8	-19.6225	ug/L	2.37622	-19.6225	ug/L	2.37622	12.11%
V 292.402†	132358.6	791.033	ug/L	12.3397	791.033	ug/L	12.3397	1.56%
Zn 206.200†	23423.0	442.421	ug/L	7.5548	442.421	ug/L	7.5548	1.71%
Sn 189.927†	-60.2	-3.8714	ug/L	0.09814	-3.8714	ug/L	0.09814	2.54%

Sequence No.: 49
Sample ID: s8614
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/21/2008 2:31:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: s8614

Analyte	Back Pressure	Flow
All	151.0 kPa	0.55 L/min

Mean Data: s8614

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2390396.6	96.4340	%	0.67783				0.70%
Y	159030.3	95.6291	%	0.41197				0.43%
Ag 328.068†	471896.3	997.025	ug/L	5.4012	997.025	ug/L	5.4012	0.54%
QC value within limits for Ag 328.068 Recovery = 99.70%								
Al 308.215 R†	8570.2	20238.2	ug/L	96.89	20238.2	ug/L	96.89	0.48%
QC value within limits for Al 308.215 R Recovery = 101.19%								
As 188.979†	40765.7	5020.60	ug/L	39.119	5020.60	ug/L	39.119	0.78%
QC value within limits for As 188.979 Recovery = 100.41%								
B 249.677†	880827.5	5101.73	ug/L	17.768	5101.73	ug/L	17.768	0.35%
QC value within limits for B 249.677 Recovery = 102.03%								
Ba 233.527†	362156.5	5064.12	ug/L	21.330	5064.12	ug/L	21.330	0.42%
QC value within limits for Ba 233.527 Recovery = 101.28%								
Be 313.107†	1675675.9	503.385	ug/L	1.9832	503.385	ug/L	1.9832	0.39%
QC value within limits for Be 313.107 Recovery = 100.68%								
Ca 315.887 R†	84725.7	20994.6	ug/L	106.23	20994.6	ug/L	106.23	0.51%
QC value within limits for Ca 315.887 R Recovery = 104.97%								
Cd 214.440†	784371.2	5182.60	ug/L	20.631	5182.60	ug/L	20.631	0.40%
QC value within limits for Cd 214.440 Recovery = 103.65%								
Co 228.616†	198612.2	4888.67	ug/L	31.396	4888.67	ug/L	31.396	0.64%
QC value within limits for Co 228.616 Recovery = 97.77%								
Cr 267.716†	667083.8	4927.50	ug/L	20.353	4927.50	ug/L	20.353	0.41%
QC value within limits for Cr 267.716 Recovery = 98.55%								
Cu 324.752†	761565.4	4834.18	ug/L	23.114	4834.18	ug/L	23.114	0.48%
QC value within limits for Cu 324.752 Recovery = 96.68%								
Fe 238.204 R†	37412.2	21793.4	ug/L	153.90	21793.4	ug/L	153.90	0.71%
QC value within limits for Fe 238.204 R Recovery = 108.97%								
K 766.490 R†	50903.2	19696.4	ug/L	49.48	19696.4	ug/L	49.48	0.25%
QC value within limits for K 766.490 R Recovery = 98.48%								
Mg 279.077 R†	8766.4	21045.9	ug/L	79.67	21045.9	ug/L	79.67	0.38%
QC value within limits for Mg 279.077 R Recovery = 105.23%								
Mn 257.610†	2118557.0	5056.09	ug/L	18.833	5056.09	ug/L	18.833	0.37%
QC value within limits for Mn 257.610 Recovery = 101.12%								
Mo 202.031†	164849.3	5187.99	ug/L	40.977	5187.99	ug/L	40.977	0.79%
QC value within limits for Mo 202.031 Recovery = 103.76%								
Na 589.592 R†	6563675.3	20793.7	ug/L	279.65	20793.7	ug/L	279.65	1.34%
QC value within limits for Na 589.592 R Recovery = 103.97%								
Ni 231.604†	340496.2	4930.97	ug/L	26.340	4930.97	ug/L	26.340	0.53%
QC value within limits for Ni 231.604 Recovery = 98.62%								
Pb 220.353†	146030.8	4828.72	ug/L	46.842	4828.72	ug/L	46.842	0.97%
QC value within limits for Pb 220.353 Recovery = 96.57%								
Sb 206.836†	104811.3	5057.66	ug/L	32.302	5057.66	ug/L	32.302	0.64%
QC value within limits for Sb 206.836 Recovery = 101.15%								
Se 196.026†	57050.0	5014.99	ug/L	64.820	5014.99	ug/L	64.820	1.29%
QC value within limits for Se 196.026 Recovery = 100.30%								
Ti 334.940 R†	2946380.8	5023.60	ug/L	17.494	5023.60	ug/L	17.494	0.35%
QC value within limits for Ti 334.940 R Recovery = 100.47%								
Tl 190.801†	43003.6	4939.13	ug/L	27.159	4939.13	ug/L	27.159	0.55%
QC value within limits for Tl 190.801 Recovery = 98.78%								
V 292.402†	825957.6	4936.28	ug/L	15.423	4936.28	ug/L	15.423	0.31%
QC value within limits for V 292.402 Recovery = 98.73%								
Zn 206.200†	260954.4	4928.99	ug/L	34.766	4928.99	ug/L	34.766	0.71%
QC value within limits for Zn 206.200 Recovery = 98.58%								
Sn 189.927†	77246.3	4964.58	ug/L	31.509	4964.58	ug/L	31.509	0.63%
QC value within limits for Sn 189.927 Recovery = 99.29%								

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: ccb
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/21/2008 2:36:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ccb

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2510629.8	101.284	%	0.7272				0.72%
Y	161035.7	96.8350	%	4.30735				4.45%
Ag 328.068†	68.2	0.1440	ug/L	0.35660	0.1440	ug/L	0.35660	247.57%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	13.2	31.2311	ug/L	3.28057	31.2311	ug/L	3.28057	10.50%
QC value within limits for Al 308.215 R Recovery = Not calculated								
As 188.979†	17.4	2.1474	ug/L	1.16303	2.1474	ug/L	1.16303	54.16%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	3057.7	17.7101	ug/L	1.21407	17.7101	ug/L	1.21407	6.86%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	78.2	1.0933	ug/L	0.28201	1.0933	ug/L	0.28201	25.80%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	430.6	0.1294	ug/L	0.01754	0.1294	ug/L	0.01754	13.56%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	44.0	10.9040	ug/L	3.05407	10.9040	ug/L	3.05407	28.01%
QC value within limits for Ca 315.887 R Recovery = Not calculated								
Cd 214.440†	178.3	1.1779	ug/L	0.29118	1.1779	ug/L	0.29118	24.72%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	42.3	1.0371	ug/L	0.35789	1.0371	ug/L	0.35789	34.51%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	128.2	0.9469	ug/L	0.27429	0.9469	ug/L	0.27429	28.97%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	176.4	1.1200	ug/L	0.51752	1.1200	ug/L	0.51752	46.21%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204 R†	73.7	42.9180	ug/L	5.55662	42.9180	ug/L	5.55662	12.95%
QC value within limits for Fe 238.204 R Recovery = Not calculated								
K 766.490 R†	274.4	106.158	ug/L	41.0086	106.158	ug/L	41.0086	38.63%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	-12.8	-30.8334	ug/L	5.23011	-30.8334	ug/L	5.23011	16.96%
QC value within limits for Mg 279.077 R Recovery = Not calculated								
Mn 257.610†	600.4	1.4329	ug/L	0.33130	1.4329	ug/L	0.33130	23.12%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	105.0	3.3040	ug/L	0.64790	3.3040	ug/L	0.64790	19.61%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 R†	58865.7	186.486	ug/L	5.4726	186.486	ug/L	5.4726	2.93%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	90.8	1.3156	ug/L	0.18907	1.3156	ug/L	0.18907	14.37%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	35.6	1.1766	ug/L	0.96989	1.1766	ug/L	0.96989	82.43%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	72.4	3.4924	ug/L	3.40214	3.4924	ug/L	3.40214	97.42%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	13.0	1.1425	ug/L	0.57663	1.1425	ug/L	0.57663	50.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ti 334.940 R†	1557.8	2.6561	ug/L	0.70332	2.6561	ug/L	0.70332	26.48%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	20.1	2.3069	ug/L	1.00740	2.3069	ug/L	1.00740	43.67%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	214.0	1.2790	ug/L	0.33931	1.2790	ug/L	0.33931	26.53%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	75.4	1.4244	ug/L	0.29198	1.4244	ug/L	0.29198	20.50%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Sn 189.927†	20.8	1.3374	ug/L	0.18680	1.3374	ug/L	0.18680	13.97%
QC value within limits for Sn 189.927 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 51
Sample ID: 202043-004,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 3/21/2008 2:41:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-004,136222,1

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: 202043-004,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2503475.1	100.996	%	1.2454				1.23%
Y	174437.2	104.894	%	0.5777				0.55%
Ag 328.068†	-1394.7	-2.9467	ug/L	0.66426	-2.9467	ug/L	0.66426	22.54%
Al 308.215 R†	52887.1	124891	ug/L	729.9	124891	ug/L	729.9	0.58%
As 188.979†	-27.9	-3.4384	ug/L	1.53020	-3.4384	ug/L	1.53020	44.50%
B 249.677†	46264.7	267.964	ug/L	0.5797	267.964	ug/L	0.5797	0.22%
Ba 233.527†	54110.3	756.636	ug/L	20.3624	756.636	ug/L	20.3624	2.69%
Be 313.107†	12675.7	3.8079	ug/L	0.09700	3.8079	ug/L	0.09700	2.55%
Ca 315.887 R†	186472.8	46207.0	ug/L	105.78	46207.0	ug/L	105.78	0.23%
Cd 214.440†	690.6	4.5632	ug/L	0.25578	4.5632	ug/L	0.25578	5.61%
Co 228.616†	6889.4	148.353	ug/L	2.4992	148.353	ug/L	2.4992	1.68%
Cr 267.716†	157595.4	1164.10	ug/L	30.433	1164.10	ug/L	30.433	2.61%
Cu 324.752†	18066.1	114.678	ug/L	3.6235	114.678	ug/L	3.6235	3.16%
Fe 238.204 R†	564152.5	328630	ug/L	5767.9	328630	ug/L	5767.9	1.76%
K 766.490 R†	13655.1	5283.68	ug/L	93.034	5283.68	ug/L	93.034	1.76%
Mg 279.077 R†	24192.4	58079.8	ug/L	186.73	58079.8	ug/L	186.73	0.32%
Mn 257.610†	924968.5	2207.51	ug/L	21.928	2207.51	ug/L	21.928	0.99%
Mo 202.031†	-43.5	-1.3695	ug/L	0.80937	-1.3695	ug/L	0.80937	59.10%
Na 589.592 R†	631106.9	1999.34	ug/L	7.272	1999.34	ug/L	7.272	0.36%
Ni 231.604†	61565.8	891.579	ug/L	21.2982	891.579	ug/L	21.2982	2.39%
Pb 220.353†	630.5	20.8468	ug/L	0.45574	20.8468	ug/L	0.45574	2.19%
Sb 206.836†	154.0	7.4299	ug/L	1.46951	7.4299	ug/L	1.46951	19.78%
Se 196.026†	-857.9	-75.4172	ug/L	1.11742	-75.4172	ug/L	1.11742	1.48%
Ti 334.940 R†	5760413.1	9821.55	ug/L	79.061	9821.55	ug/L	79.061	0.80%
Tl 190.801†	-151.3	-17.3732	ug/L	1.75097	-17.3732	ug/L	1.75097	10.08%
V 292.402†	120909.4	722.607	ug/L	16.9994	722.607	ug/L	16.9994	2.35%
Zn 206.200†	22952.5	433.535	ug/L	10.6892	433.535	ug/L	10.6892	2.47%
Sn 189.927†	-7.7	-0.4964	ug/L	0.56693	-0.4964	ug/L	0.56693	114.21%

Sequence No.: 52
Sample ID: 202043-005,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 3/21/2008 2:45:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-005,136222,1

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: 202043-005,136222,1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2471599.9	99.7099	%	1.72169				1.73%
Y	174420.7	104.884	%	0.8673				0.83%
Ag 328.068†	-622.9	-1.3160	ug/L	0.06018	-1.3160	ug/L	0.06018	4.57%
Al 308.215 R†	55528.6	131129	ug/L	1338.1	131129	ug/L	1338.1	1.02%
As 188.979†	286.8	35.3173	ug/L	1.56597	35.3173	ug/L	1.56597	4.43%
B 249.677†	45676.9	264.559	ug/L	8.3272	264.559	ug/L	8.3272	3.15%
Ba 233.527†	86934.5	1215.62	ug/L	9.492	1215.62	ug/L	9.492	0.78%
Be 313.107†	11321.2	3.4010	ug/L	0.04887	3.4010	ug/L	0.04887	1.44%
Ca 315.887 R†	217522.2	53900.8	ug/L	671.61	53900.8	ug/L	671.61	1.25%
Cd 214.440†	750.3	4.9574	ug/L	0.12130	4.9574	ug/L	0.12130	2.45%
Co 228.616†	5875.6	121.644	ug/L	1.9942	121.644	ug/L	1.9942	1.64%
Cr 267.716†	171113.3	1263.95	ug/L	11.657	1263.95	ug/L	11.657	0.92%
Cu 324.752†	31799.8	201.855	ug/L	1.8259	201.855	ug/L	1.8259	0.90%
Fe 238.204 R†	530039.7	308759	ug/L	9684.7	308759	ug/L	9684.7	3.14%
K 766.490 R†	16139.6	6245.03	ug/L	73.812	6245.03	ug/L	73.812	1.18%
Mg 279.077 R†	21839.1	52430.0	ug/L	417.00	52430.0	ug/L	417.00	0.80%
Mn 257.610†	1158425.1	2764.67	ug/L	64.478	2764.67	ug/L	64.478	2.33%
Mo 202.031†	-17.8	-0.5613	ug/L	1.22096	-0.5613	ug/L	1.22096	217.52%
Na 589.592 R†	664552.2	2105.29	ug/L	13.427	2105.29	ug/L	13.427	0.64%
Ni 231.604†	53517.2	775.021	ug/L	6.6913	775.021	ug/L	6.6913	0.86%
Pb 220.353†	127151.4	4204.44	ug/L	65.146	4204.44	ug/L	65.146	1.55%
Sb 206.836†	138.9	6.7031	ug/L	3.63820	6.7031	ug/L	3.63820	54.28%
Se 196.026†	-735.0	-64.6133	ug/L	3.72989	-64.6133	ug/L	3.72989	5.77%
Ti 334.940 R†	6212959.0	10593.1	ug/L	236.84	10593.1	ug/L	236.84	2.24%
Tl 190.801†	-171.7	-19.7188	ug/L	1.38811	-19.7188	ug/L	1.38811	7.04%
V 292.402†	120204.9	718.397	ug/L	6.2400	718.397	ug/L	6.2400	0.87%
Zn 206.200†	184376.8	3482.57	ug/L	26.283	3482.57	ug/L	26.283	0.75%
Sn 189.927†	2585.1	166.140	ug/L	3.2419	166.140	ug/L	3.2419	1.95%

Sequence No.: 53
Sample ID: 202043-006,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 3/21/2008 2:50:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-006,136222,1

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: 202043-006,136222,1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2388724.2	96.3665	%	0.54448				0.57%
Y	166287.8	99.9933	%	1.34013				1.34%
Ag 328.068†	-1681.7	-3.5532	ug/L	0.37908	-3.5532	ug/L	0.37908	10.67%
Al 308.215 R†	74500.4	175930	ug/L	2276.7	175930	ug/L	2276.7	1.29%
As 188.979†	104.8	12.9041	ug/L	1.40649	12.9041	ug/L	1.40649	10.90%
B 249.677†	51276.0	296.989	ug/L	13.6365	296.989	ug/L	13.6365	4.59%
Ba 233.527†	89848.7	1256.37	ug/L	6.801	1256.37	ug/L	6.801	0.54%
Be 313.107†	13570.6	4.0767	ug/L	0.09095	4.0767	ug/L	0.09095	2.23%
Ca 315.887 R†	187885.9	46557.1	ug/L	722.38	46557.1	ug/L	722.38	1.55%
Cd 214.440†	618.9	4.0895	ug/L	0.06034	4.0895	ug/L	0.06034	1.48%
Co 228.616†	7758.0	164.349	ug/L	1.3964	164.349	ug/L	1.3964	0.85%
Cr 267.716†	255807.9	1889.56	ug/L	10.709	1889.56	ug/L	10.709	0.57%
Cu 324.752†	20357.1	129.220	ug/L	1.9396	129.220	ug/L	1.9396	1.50%
Fe 238.204 R†	650105.9	378700	ug/L	6936.0	378700	ug/L	6936.0	1.83%
K 766.490 R†	14508.7	5614.00	ug/L	52.854	5614.00	ug/L	52.854	0.94%
Mg 279.077 R†	27005.4	64833.0	ug/L	1350.85	64833.0	ug/L	1350.85	2.08%
Mn 257.610†	981887.1	2343.35	ug/L	10.616	2343.35	ug/L	10.616	0.45%
Mo 202.031†	-224.7	-7.0713	ug/L	2.54751	-7.0713	ug/L	2.54751	36.03%
Na 589.592 R†	830359.6	2630.57	ug/L	22.437	2630.57	ug/L	22.437	0.85%
Ni 231.604†	81991.2	1187.37	ug/L	6.566	1187.37	ug/L	6.566	0.55%
Pb 220.353†	4166.8	137.781	ug/L	0.5111	137.781	ug/L	0.5111	0.37%
Sb 206.836†	223.4	10.7795	ug/L	2.45873	10.7795	ug/L	2.45873	22.81%
Se 196.026†	-955.1	-83.9616	ug/L	2.96220	-83.9616	ug/L	2.96220	3.53%
Ti 334.940 R†	7208280.0	12290.2	ug/L	91.84	12290.2	ug/L	91.84	0.75%
Tl 190.801†	-200.3	-23.0086	ug/L	2.11504	-23.0086	ug/L	2.11504	9.19%
V 292.402†	144112.8	861.281	ug/L	5.6189	861.281	ug/L	5.6189	0.65%
Zn 206.200†	28771.8	543.451	ug/L	2.0140	543.451	ug/L	2.0140	0.37%
Sn 189.927†	19.8	1.2745	ug/L	0.43646	1.2745	ug/L	0.43646	34.24%

Sequence No.: 54
Sample ID: 202043-007,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 3/21/2008 2:54:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-007,136222,1

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: 202043-007,136222,1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2445588.5	98.6605	%	0.22149				0.22%
Y	171467.8	103.108	%	1.5134				1.47%
Ag 328.068†	-1635.8	-3.4562	ug/L	1.30098	-3.4562	ug/L	1.30098	37.64%
Al 308.215 Rt	66557.5	157173	ug/L	813.7	157173	ug/L	813.7	0.52%
As 188.979†	253.2	31.1781	ug/L	1.98941	31.1781	ug/L	1.98941	6.38%
B 249.677†	52914.0	306.476	ug/L	9.4682	306.476	ug/L	9.4682	3.09%
Ba 233.527†	68191.7	953.540	ug/L	3.6904	953.540	ug/L	3.6904	0.39%
Be 313.107†	12800.1	3.8452	ug/L	0.08252	3.8452	ug/L	0.08252	2.15%
Ca 315.887 Rt	260434.5	64534.3	ug/L	552.68	64534.3	ug/L	552.68	0.86%
Cd 214.440†	670.2	4.4280	ug/L	0.07953	4.4280	ug/L	0.07953	1.80%
Co 228.616†	7863.3	165.458	ug/L	0.8150	165.458	ug/L	0.8150	0.49%
Cr 267.716†	257778.1	1904.11	ug/L	4.865	1904.11	ug/L	4.865	0.26%
Cu 324.752†	22184.6	140.821	ug/L	0.3678	140.821	ug/L	0.3678	0.26%
Fe 238.204 Rt	661207.7	385167	ug/L	9899.8	385167	ug/L	9899.8	2.57%
K 766.490 Rt	15764.4	6099.85	ug/L	91.585	6099.85	ug/L	91.585	1.50%
Mg 279.077 Rt	29005.3	69634.2	ug/L	442.75	69634.2	ug/L	442.75	0.64%
Mn 257.610†	1514765.0	3615.10	ug/L	22.242	3615.10	ug/L	22.242	0.62%
Mo 202.031†	-210.9	-6.6377	ug/L	1.89219	-6.6377	ug/L	1.89219	28.51%
Na 589.592 Rt	824117.0	2610.79	ug/L	15.347	2610.79	ug/L	15.347	0.59%
Ni 231.604†	74984.7	1085.91	ug/L	3.733	1085.91	ug/L	3.733	0.34%
Pb 220.353†	4097.3	135.485	ug/L	1.6900	135.485	ug/L	1.6900	1.25%
Sb 206.836†	160.3	7.7354	ug/L	1.09563	7.7354	ug/L	1.09563	14.16%
Se 196.026†	-969.7	-85.2417	ug/L	1.72278	-85.2417	ug/L	1.72278	2.02%
Ti 334.940 Rt	7605286.5	12967.1	ug/L	100.89	12967.1	ug/L	100.89	0.78%
Tl 190.801†	-222.7	-25.5753	ug/L	0.89826	-25.5753	ug/L	0.89826	3.51%
V 292.402†	167303.7	999.880	ug/L	2.6127	999.880	ug/L	2.6127	0.26%
Zn 206.200†	27748.9	524.130	ug/L	0.9522	524.130	ug/L	0.9522	0.18%
Sn 189.927†	-70.3	-4.5176	ug/L	1.15935	-4.5176	ug/L	1.15935	25.66%

Sequence No.: 55
Sample ID: 202043-008,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 3/21/2008 2:58:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-008,136222,1

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: 202043-008,136222,1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2404651.9	97.0091	%	2.06713				2.13%
Y	153155.2	92.0963	%	3.91961				4.26%
Ag 328.068†	-463.2	-0.9787	ug/L	1.06353	-0.9787	ug/L	1.06353	108.67%
Al 308.215 Rt	65893.5	155605	ug/L	6694.4	155605	ug/L	6694.4	4.30%
As 188.979†	172.3	21.2150	ug/L	1.10712	21.2150	ug/L	1.10712	5.22%
B 249.677†	46890.1	271.586	ug/L	8.5451	271.586	ug/L	8.5451	3.15%
Ba 233.527†	96151.0	1344.50	ug/L	39.779	1344.50	ug/L	39.779	2.96%
Be 313.107†	11866.9	3.5649	ug/L	0.12778	3.5649	ug/L	0.12778	3.58%
Ca 315.887 Rt	328687.6	81447.0	ug/L	3550.44	81447.0	ug/L	3550.44	4.36%
Cd 214.440†	890.8	5.8861	ug/L	0.06709	5.8861	ug/L	0.06709	1.14%
Co 228.616†	6728.1	141.362	ug/L	3.3513	141.362	ug/L	3.3513	2.37%
Cr 267.716†	192157.2	1419.39	ug/L	45.931	1419.39	ug/L	45.931	3.24%
Cu 324.752†	57192.4	363.040	ug/L	12.4634	363.040	ug/L	12.4634	3.43%
Fe 238.204 Rt	585579.1	341112	ug/L	17233.2	341112	ug/L	17233.2	5.05%
K 766.490 Rt	28126.5	10883.3	ug/L	474.78	10883.3	ug/L	474.78	4.36%
Mg 279.077 Rt	30251.2	72625.3	ug/L	2997.95	72625.3	ug/L	2997.95	4.13%
Mn 257.610†	1451886.0	3465.03	ug/L	48.694	3465.03	ug/L	48.694	1.41%
Mo 202.031†	-18.2	-0.5719	ug/L	0.60826	-0.5719	ug/L	0.60826	106.35%
Na 589.592 Rt	843133.9	2671.04	ug/L	115.806	2671.04	ug/L	115.806	4.34%
Ni 231.604†	62804.2	909.513	ug/L	27.1507	909.513	ug/L	27.1507	2.99%
Pb 220.353†	23832.4	788.052	ug/L	15.0911	788.052	ug/L	15.0911	1.91%
Sb 206.836†	145.3	7.0122	ug/L	1.99452	7.0122	ug/L	1.99452	28.44%
Se 196.026†	-705.8	-62.0421	ug/L	2.48663	-62.0421	ug/L	2.48663	4.01%
Ti 334.940 Rt	6563358.4	11190.6	ug/L	171.75	11190.6	ug/L	171.75	1.53%
Tl 190.801†	-168.9	-19.3988	ug/L	1.25558	-19.3988	ug/L	1.25558	6.47%
V 292.402†	137275.5	820.419	ug/L	26.2815	820.419	ug/L	26.2815	3.20%
Zn 206.200†	120187.9	2270.15	ug/L	71.781	2270.15	ug/L	71.781	3.16%
Sn 189.927†	592.0	38.0489	ug/L	0.90846	38.0489	ug/L	0.90846	2.39%

Sequence No.: 56
Sample ID: 202043-009,136222,1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 3/21/2008 3:02:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 202043-009,136222,1

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: 202043-009,136222,1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2433239.0	98.1623	%	1.45335				1.48%
Y	171286.1	102.999	%	1.0615				1.03%
Ag 328.068†	725.7	1.5333	ug/L	0.42267	1.5333	ug/L	0.42267	27.57%
Al 308.215 R†	59543.2	140609	ug/L	194.6	140609	ug/L	194.6	0.14%
As 188.979†	581.0	71.5580	ug/L	0.66032	71.5580	ug/L	0.66032	0.92%
B 249.677†	54817.7	317.502	ug/L	12.0655	317.502	ug/L	12.0655	3.80%
Ba 233.527†	106060.5	1483.07	ug/L	4.215	1483.07	ug/L	4.215	0.28%
Be 313.107†	12014.0	3.6091	ug/L	0.04502	3.6091	ug/L	0.04502	1.25%
Ca 315.887 R†	405076.6	100376	ug/L	427.5	100376	ug/L	427.5	0.43%
Cd 214.440†	2126.5	14.0505	ug/L	0.17710	14.0505	ug/L	0.17710	1.26%
Co 228.616†	8126.8	173.096	ug/L	2.3868	173.096	ug/L	2.3868	1.38%
Cr 267.716†	171390.1	1265.99	ug/L	6.077	1265.99	ug/L	6.077	0.48%
Cu 324.752†	85996.3	545.878	ug/L	2.1523	545.878	ug/L	2.1523	0.39%
Fe 238.204 R†	524191.8	305352	ug/L	10835.9	305352	ug/L	10835.9	3.55%
K 766.490 R†	31906.7	12346.0	ug/L	23.20	12346.0	ug/L	23.20	0.19%
Mg 279.077 R†	31527.2	75688.6	ug/L	322.03	75688.6	ug/L	322.03	0.43%
Mn 257.610†	1555164.8	3711.52	ug/L	13.513	3711.52	ug/L	13.513	0.36%
Mo 202.031†	-104.3	-3.2834	ug/L	1.31561	-3.2834	ug/L	1.31561	40.07%
Na 589.592 R†	986997.9	3126.80	ug/L	26.312	3126.80	ug/L	26.312	0.84%
Ni 231.604†	62606.7	906.653	ug/L	1.8321	906.653	ug/L	1.8321	0.20%
Pb 220.353†	72842.4	2408.64	ug/L	31.605	2408.64	ug/L	31.605	1.31%
Sb 206.836†	88.1	4.2525	ug/L	1.45232	4.2525	ug/L	1.45232	34.15%
Se 196.026†	-702.2	-61.7310	ug/L	1.18981	-61.7310	ug/L	1.18981	1.93%
Ti 334.940 R†	7302093.7	12450.1	ug/L	287.94	12450.1	ug/L	287.94	2.31%
Tl 190.801†	-180.2	-20.6984	ug/L	1.19001	-20.6984	ug/L	1.19001	5.75%
V 292.402†	137818.3	823.662	ug/L	2.7718	823.662	ug/L	2.7718	0.34%
Zn 206.200†	438138.2	8275.69	ug/L	44.611	8275.69	ug/L	44.611	0.54%
Sn 189.927†	3912.7	251.464	ug/L	3.8343	251.464	ug/L	3.8343	1.52%

Sequence No.: 57
Sample ID: s8351
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 3/21/2008 3:06:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: s8351

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: s8351

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2119502.6	85.5055	%	0.41045				0.48%
Y	151992.8	91.3973	%	0.72433				0.79%
Ag 328.068†	504766.3	1066.47	ug/L	3.184	1066.47	ug/L	3.184	0.30%
QC value within limits for Ag 328.068 Recovery = 106.65%								
Al 308.215 R†	217231.8	512985	ug/L	4853.6	512985	ug/L	4853.6	0.95%
QC value within limits for Al 308.215 R Recovery = 102.60%								
As 188.979†	4309.7	530.766	ug/L	22.9216	530.766	ug/L	22.9216	4.32%
QC value within limits for As 188.979 Recovery = 106.15%								
B 249.677†	23215.5	134.464	ug/L	4.2423	134.464	ug/L	4.2423	3.15%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	37353.2	522.318	ug/L	1.0628	522.318	ug/L	1.0628	0.20%
QC value within limits for Ba 233.527 Recovery = 104.46%								
Be 313.107†	1737133.3	521.847	ug/L	0.4626	521.847	ug/L	0.4626	0.09%
QC value within limits for Be 313.107 Recovery = 104.37%								
Ca 315.887 R†	1976981.8	489885	ug/L	4616.0	489885	ug/L	4616.0	0.94%
QC value within limits for Ca 315.887 R Recovery = 97.98%								
Cd 214.440†	149341.2	986.746	ug/L	3.5892	986.746	ug/L	3.5892	0.36%
QC value within limits for Cd 214.440 Recovery = 98.67%								
Co 228.616†	20596.0	463.304	ug/L	1.3364	463.304	ug/L	1.3364	0.29%
QC value within limits for Co 228.616 Recovery = 92.66%								
Cr 267.716†	67769.2	500.586	ug/L	0.3510	500.586	ug/L	0.3510	0.07%
QC value within limits for Cr 267.716 Recovery = 100.12%								
Cu 324.752†	83848.7	532.245	ug/L	1.3843	532.245	ug/L	1.3843	0.26%
QC value within limits for Cu 324.752 Recovery = 106.45%								
Fe 238.204 R†	340256.5	198206	ug/L	2157.0	198206	ug/L	2157.0	1.09%
QC value within limits for Fe 238.204 R Recovery = 99.10%								
K 766.490 R†	592.9	229.430	ug/L	35.5355	229.430	ug/L	35.5355	15.49%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	213176.7	511783	ug/L	5394.0	511783	ug/L	5394.0	1.05%
QC value within limits for Mg 279.077 R Recovery = 102.36%								
Mn 257.610†	217679.6	519.509	ug/L	2.1466	519.509	ug/L	2.1466	0.41%
QC value within limits for Mn 257.610 Recovery = 103.90%								
Mo 202.031†	16670.5	524.641	ug/L	1.2886	524.641	ug/L	1.2886	0.25%
QC value within limits for Mo 202.031 Recovery = 104.93%								
Na 589.592 R†	56315.8	178.408	ug/L	0.8114	178.408	ug/L	0.8114	0.45%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	64656.8	936.343	ug/L	0.7158	936.343	ug/L	0.7158	0.08%
QC value within limits for Ni 231.604 Recovery = 93.63%								
Pb 220.353†	27344.5	904.183	ug/L	5.7884	904.183	ug/L	5.7884	0.64%
QC value within limits for Pb 220.353 Recovery = 90.42%								
Sb 206.836†	11036.1	532.546	ug/L	0.3527	532.546	ug/L	0.3527	0.07%
QC value within limits for Sb 206.836 Recovery = 106.51%								
Se 196.026†	5535.0	486.555	ug/L	5.7667	486.555	ug/L	5.7667	1.19%
QC value within limits for Se 196.026 Recovery = 97.31%								
Ti 334.940 R†	11941827.1	20360.9	ug/L	129.80	20360.9	ug/L	129.80	0.64%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	3741.9	429.768	ug/L	9.5532	429.768	ug/L	9.5532	2.22%
QC value within limits for Tl 190.801 Recovery = 85.95%								
V 292.402†	86526.6	517.121	ug/L	0.8310	517.121	ug/L	0.8310	0.16%
QC value within limits for V 292.402 Recovery = 103.42%								
Zn 206.200†	50635.5	956.419	ug/L	0.7641	956.419	ug/L	0.7641	0.08%
QC value within limits for Zn 206.200 Recovery = 95.64%								
Sn 189.927†	-272.9	-17.5362	ug/L	5.07299	-17.5362	ug/L	5.07299	28.93%
QC value within limits for Sn 189.927 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 58 Autosampler Location: 7
Sample ID: s8614 Date Collected: 3/21/2008 3:11:14 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: s8614

Analyte	Back Pressure	Flow
All	151.0 kPa	0.55 L/min

Mean Data: s8614

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2324178.2	93.7626	%	1.28844				1.37%
Y	152160.6	91.4982	%	0.97072				1.06%
Ag 328.068†	480877.3	1016.00	ug/L	2.314	1016.00	ug/L	2.314	0.23%
QC value within limits for Ag 328.068 Recovery = 101.60%								
Al 308.215 R†	8712.0	20573.1	ug/L	288.55	20573.1	ug/L	288.55	1.40%
QC value within limits for Al 308.215 R Recovery = 102.87%								
As 188.979†	40814.6	5026.61	ug/L	142.446	5026.61	ug/L	142.446	2.83%
QC value within limits for As 188.979 Recovery = 100.53%								
B 249.677†	880132.2	5097.70	ug/L	14.527	5097.70	ug/L	14.527	0.28%
QC value within limits for B 249.677 Recovery = 101.95%								
Ba 233.527†	367388.3	5137.27	ug/L	38.707	5137.27	ug/L	38.707	0.75%
QC value within limits for Ba 233.527 Recovery = 102.75%								
Be 313.107†	1696857.4	509.748	ug/L	2.5977	509.748	ug/L	2.5977	0.51%
QC value within limits for Be 313.107 Recovery = 101.95%								
Ca 315.887 R†	84774.7	21006.7	ug/L	225.84	21006.7	ug/L	225.84	1.08%
QC value within limits for Ca 315.887 R Recovery = 105.03%								
Cd 214.440†	784755.8	5185.14	ug/L	52.577	5185.14	ug/L	52.577	1.01%
QC value within limits for Cd 214.440 Recovery = 103.70%								
Co 228.616†	200903.9	4945.00	ug/L	34.337	4945.00	ug/L	34.337	0.69%
QC value within limits for Co 228.616 Recovery = 98.90%								
Cr 267.716†	676475.7	4996.87	ug/L	24.047	4996.87	ug/L	24.047	0.48%
QC value within limits for Cr 267.716 Recovery = 99.94%								
Cu 324.752†	779481.5	4947.91	ug/L	16.372	4947.91	ug/L	16.372	0.33%
QC value within limits for Cu 324.752 Recovery = 98.96%								
Fe 238.204 R†	37460.0	21821.2	ug/L	268.88	21821.2	ug/L	268.88	1.23%
QC value within limits for Fe 238.204 R Recovery = 109.11%								
K 766.490 R†	51679.2	19996.7	ug/L	230.92	19996.7	ug/L	230.92	1.15%
QC value within limits for K 766.490 R Recovery = 99.98%								
Mg 279.077 R†	8777.7	21073.1	ug/L	426.48	21073.1	ug/L	426.48	2.02%
QC value within limits for Mg 279.077 R Recovery = 105.37%								
Mn 257.610†	2141645.7	5111.20	ug/L	35.885	5111.20	ug/L	35.885	0.70%
QC value within limits for Mn 257.610 Recovery = 102.22%								
Mo 202.031†	159436.9	5017.66	ug/L	120.576	5017.66	ug/L	120.576	2.40%
QC value within limits for Mo 202.031 Recovery = 100.35%								
Na 589.592 R†	6694369.4	21207.7	ug/L	488.10	21207.7	ug/L	488.10	2.30%
QC value within limits for Na 589.592 R Recovery = 106.04%								
Ni 231.604†	344050.4	4982.45	ug/L	25.527	4982.45	ug/L	25.527	0.51%
QC value within limits for Ni 231.604 Recovery = 99.65%								
Pb 220.353†	146413.1	4841.36	ug/L	154.970	4841.36	ug/L	154.970	3.20%
QC value within limits for Pb 220.353 Recovery = 96.83%								
Sb 206.836†	105155.2	5074.26	ug/L	134.789	5074.26	ug/L	134.789	2.66%
QC value within limits for Sb 206.836 Recovery = 101.49%								
Se 196.026†	56570.7	4972.86	ug/L	127.522	4972.86	ug/L	127.522	2.56%
QC value within limits for Se 196.026 Recovery = 99.46%								
Ti 334.940 R†	3001033.0	5116.78	ug/L	37.383	5116.78	ug/L	37.383	0.73%
QC value within limits for Ti 334.940 R Recovery = 102.34%								
Tl 190.801†	42885.0	4925.51	ug/L	153.591	4925.51	ug/L	153.591	3.12%
QC value within limits for Tl 190.801 Recovery = 98.51%								
V 292.402†	839469.0	5017.03	ug/L	27.157	5017.03	ug/L	27.157	0.54%
QC value within limits for V 292.402 Recovery = 100.34%								
Zn 206.200†	262150.1	4951.57	ug/L	23.807	4951.57	ug/L	23.807	0.48%
QC value within limits for Zn 206.200 Recovery = 99.03%								
Sn 189.927†	77768.7	4998.15	ug/L	115.507	4998.15	ug/L	115.507	2.31%
QC value within limits for Sn 189.927 Recovery = 99.96%								

All analyte(s) passed QC.

Sequence No.: 60
Sample ID: ccb
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/21/2008 3:19:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb

Analyte	Back Pressure	Flow
All	151.0 kPa	0.55 L/min

Mean Data: ccb

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2455672.7	99.0674	%	0.81517				0.82%
Y	155501.0	93.5069	%	3.19516				3.42%
Ag 328.068†	-122.7	-0.2592	ug/L	0.49856	-0.2592	ug/L	0.49856	192.38%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	6.3	14.8870	ug/L	8.67398	14.8870	ug/L	8.67398	58.27%
QC value within limits for Al 308.215 R Recovery = Not calculated								
As 188.979†	14.7	1.8159	ug/L	0.59069	1.8159	ug/L	0.59069	32.53%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	1640.0	9.4986	ug/L	0.32897	9.4986	ug/L	0.32897	3.46%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	41.3	0.5776	ug/L	0.04772	0.5776	ug/L	0.04772	8.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	278.0	0.0835	ug/L	0.00762	0.0835	ug/L	0.00762	9.13%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	13.2	3.2818	ug/L	4.01660	3.2818	ug/L	4.01660	122.39%
QC value within limits for Ca 315.887 R Recovery = Not calculated								
Cd 214.440†	105.8	0.6990	ug/L	0.05141	0.6990	ug/L	0.05141	7.35%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	20.9	0.5124	ug/L	0.12393	0.5124	ug/L	0.12393	24.19%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	78.2	0.5775	ug/L	0.04115	0.5775	ug/L	0.04115	7.13%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	73.1	0.4640	ug/L	0.32478	0.4640	ug/L	0.32478	70.00%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204 R†	-23.5	-13.6606	ug/L	1.41163	-13.6606	ug/L	1.41163	10.33%
QC value within limits for Fe 238.204 R Recovery = Not calculated								
K 766.490 R†	-19.0	-7.3556	ug/L	66.94527	-7.3556	ug/L	66.94527	910.13%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	-14.9	-35.7646	ug/L	10.69639	-35.7646	ug/L	10.69639	29.91%
QC value within limits for Mg 279.077 R Recovery = Not calculated								
Mn 257.610†	339.6	0.8104	ug/L	0.04747	0.8104	ug/L	0.04747	5.86%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	40.0	1.2581	ug/L	0.03502	1.2581	ug/L	0.03502	2.78%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 R†	28703.4	90.9322	ug/L	8.86803	90.9322	ug/L	8.86803	9.75%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	57.2	0.8284	ug/L	0.07398	0.8284	ug/L	0.07398	8.93%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	11.6	0.3826	ug/L	1.02557	0.3826	ug/L	1.02557	268.07%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	8.3	0.3997	ug/L	0.86256	0.3997	ug/L	0.86256	215.83%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	5.2	0.4530	ug/L	0.78660	0.4530	ug/L	0.78660	173.66%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ti 334.940 R†	765.9	1.3059	ug/L	0.11622	1.3059	ug/L	0.11622	8.90%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	18.8	2.1557	ug/L	0.85860	2.1557	ug/L	0.85860	39.83%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	142.8	0.8532	ug/L	0.10546	0.8532	ug/L	0.10546	12.36%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	51.7	0.9761	ug/L	0.07208	0.9761	ug/L	0.07208	7.38%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Sn 189.927†	12.8	0.8218	ug/L	0.28749	0.8218	ug/L	0.28749	34.98%
QC value within limits for Sn 189.927 Recovery = Not calculated								

All analyte(s) passed QC.

Curtis & Tompkins, Ltd.

MERCURY
RAW DATA

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 48116072 Instrument: MET04 HydraAA HG Analyzer Begun: 20-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	136197	ICALBLK	STD01REP1				20-MAR-2008 14:32	1.0	1.0									
002	136197	ICAL	STD02REP1				20-MAR-2008 14:34	1.0	1.0									
003	136197	ICAL	STD03REP1				20-MAR-2008 14:36	1.0	1.0									
004	136197	ICAL	STD04REP1				20-MAR-2008 14:38	1.0	1.0									
005	136197	ICAL	STD05REP1				20-MAR-2008 14:41	1.0	1.0									
006	136197	ICAL	STD06REP1				20-MAR-2008 14:43	1.0	1.0									
007	136197	ICV					20-MAR-2008 14:45	1.0	1.0	2	5.000	48116072001	5.140		ug/L	103		
008	136197	ICB					20-MAR-2008 14:47	1.0	1.0			48116072001	ND	0.20	ug/L			
009	136197	BLANK	QC433774		136197	Soil	20-MAR-2008 14:49	1.0	100.0			48116072001	ND	0.020	mg/Kg			u
010	136197	BS	QC433775		136197	Soil	20-MAR-2008 14:51	1.0	100.0		0.5000	48116072001	0.5470	0.020	mg/Kg	109		u
011	136197	BSD	QC433776		136197	Soil	20-MAR-2008 14:53	1.0	100.0		0.5000	48116072001	0.5220	0.020	mg/Kg	104	5	u
012	136197	MSS	202043-001		136197	Soil	20-MAR-2008 14:56	1.0	76.92			48116072001	0.023	0.020	mg/Kg			u
013	136197	SER	QC433777	202043-001	136197	Soil	20-MAR-2008 14:58	5.0	76.92			48116072001	ND	0.077	mg/Kg	--		u
014	136197	MS	QC433778	202043-001	136197	Soil	20-MAR-2008 15:00	1.0	83.33		0.4167	48116072001	0.4642	0.020	mg/Kg	106		u
015	136197	MSD	QC433779	202043-001	136197	Soil	20-MAR-2008 15:02	1.0	104.2		0.5208	48116072001	0.5792	0.021	mg/Kg	107	1	u
016	136197	SAMPLE	202019-001		136197	Soil	20-MAR-2008 15:04	1.0	83.33			48116072001	0.31	0.020	mg/Kg			u
017	136197	SAMPLE	202019-002		136197	Soil	20-MAR-2008 15:06	1.0	74.63			48116072001	0.50	0.020	mg/Kg			u
018	136197	SAMPLE	202019-003		136197	Soil	20-MAR-2008 15:09	1.0	75.76			48116072001	0.076	0.020	mg/Kg			u
019	136197	CCV					20-MAR-2008 15:11	1.0	1.0	3	2.500	48116072001	2.690		ug/L	108		
020	136197	CCB					20-MAR-2008 15:13	1.0	1.0			48116072001	ND	0.20	ug/L			
021	136197	SAMPLE	202019-004		136197	Soil	20-MAR-2008 15:15	1.0	87.72			48116072001	0.37	0.020	mg/Kg			u
022	136197	SAMPLE	202019-005		136197	Soil	20-MAR-2008 15:17	1.0	87.72			48116072001	0.38	0.020	mg/Kg			u
023	136197	SAMPLE	202019-006		136197	Soil	20-MAR-2008 15:20	1.0	79.37			48116072001	0.12	0.020	mg/Kg			u
024	136197	SAMPLE	202019-007		136197	Soil	20-MAR-2008 15:22	1.0	80.65			48116072001	0.073	0.020	mg/Kg			u
025	136197	SAMPLE	202019-008		136197	Soil	20-MAR-2008 15:24	1.0	96.15			48116072001	0.23	0.020	mg/Kg			u
026	136197	SAMPLE	202019-009		136197	Soil	20-MAR-2008 15:26	1.0	92.59			48116072001	0.062	0.020	mg/Kg			u
027	136197	SAMPLE	202019-010		136197	Soil	20-MAR-2008 15:29	1.0	76.92			48116072001	0.066	0.020	mg/Kg			u
028	136197	SAMPLE	202019-011		136197	Soil	20-MAR-2008 15:31	1.0	102.0			48116072001	0.035	0.020	mg/Kg			u
029	136197	SAMPLE	202043-002		136197	Soil	20-MAR-2008 15:33	1.0	86.21			48116072001	0.0077 J	0.020	mg/Kg			u
030	136197	SAMPLE	202043-003		136197	Soil	20-MAR-2008 15:36	1.0	92.59			48116072001	ND	0.020	mg/Kg			u
031	136197	CCV					20-MAR-2008 15:38	1.0	1.0	4	5.000	48116072001	5.430		ug/L	109		
032	136197	CCB					20-MAR-2008 15:40	1.0	1.0			48116072001	ND	0.20	ug/L			
033	136197	SAMPLE	202043-004		136197	Soil	20-MAR-2008 15:42	1.0	104.2			48116072001	ND	0.021	mg/Kg			u
034	136197	SAMPLE	202043-005		136197	Soil	20-MAR-2008 15:44	1.0	104.2			48116072001	0.074	0.021	mg/Kg			u
035	136197	SAMPLE	202043-006		136197	Soil	20-MAR-2008 15:46	1.0	72.46			48116072001	0.0084 J	0.020	mg/Kg			u
036	136197	SAMPLE	202043-007		136197	Soil	20-MAR-2008 15:49	1.0	80.65			48116072001	0.011 J	0.020	mg/Kg			u
037	136197	SAMPLE	202043-008		136197	Soil	20-MAR-2008 15:51	1.0	92.59			48116072001	0.077	0.020	mg/Kg			u
038	136197	SAMPLE	202043-009		136197	Soil	20-MAR-2008 15:53	1.0	90.91			48116072001	0.20	0.020	mg/Kg			u
039	136197	CCV					20-MAR-2008 15:55	1.0	1.0	5	7.500	48116072001	8.080		ug/L	108		
040	136197	CCB					20-MAR-2008 15:58	1.0	1.0			48116072001	ND	0.20	ug/L			

Stds used: 1=S8704 2=S8706 3=S8707 4=S8708 5=S8709
Flags used: u=use

Analyst: _____ Date: 3/20/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 48116072001
Units : ug/L

Date : 20-MAR-2008 14:32
X Axis : R

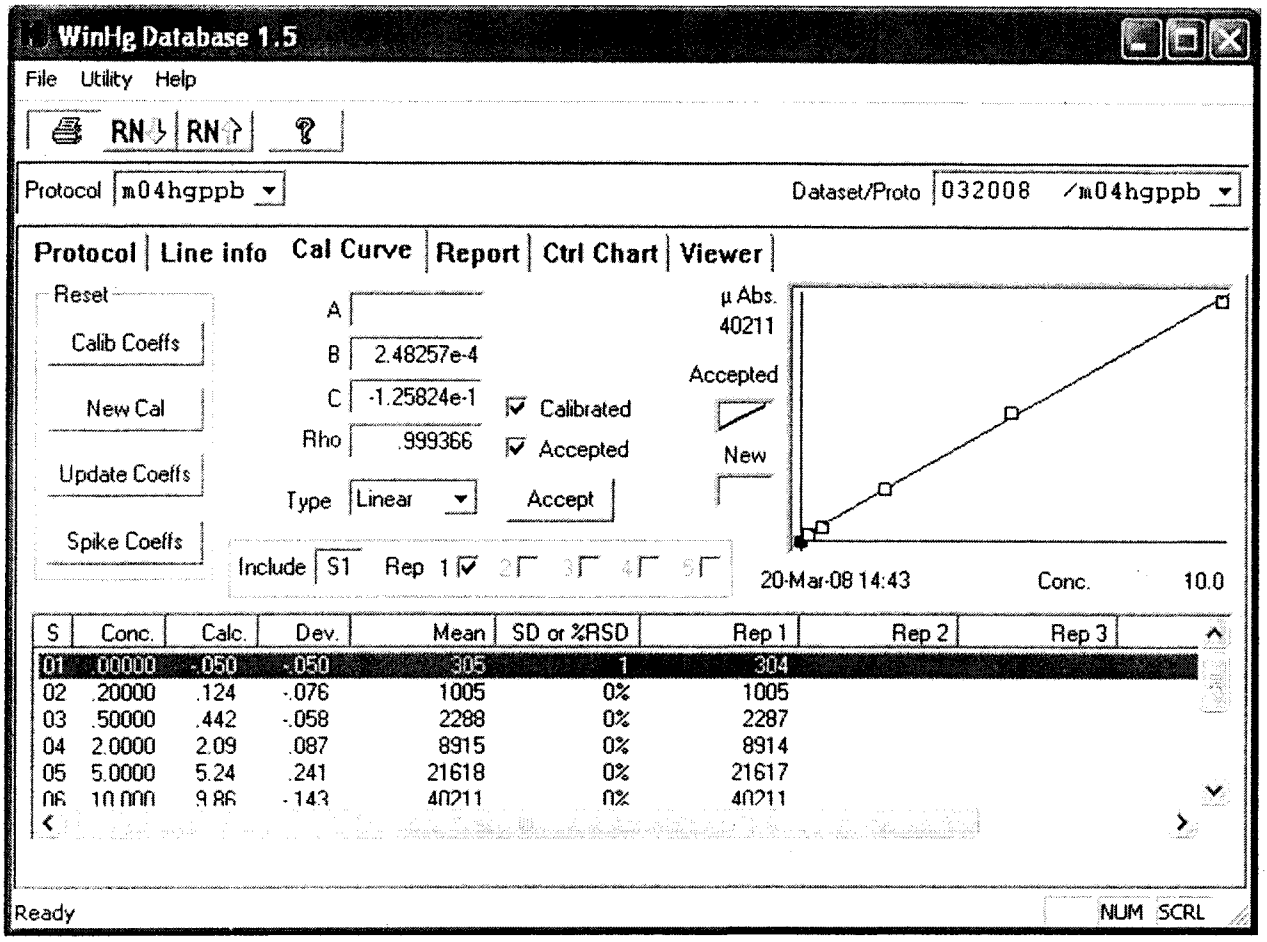
Reviewer : ---
Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	136197	48116072002	STD02REP1	20-MAR-2008 14:34	S8704 (500X)
L2	136197	48116072003	STD03REP1	20-MAR-2008 14:36	S8704 (200X)
L3	136197	48116072004	STD04REP1	20-MAR-2008 14:38	S8704 (50X)
L4	136197	48116072005	STD05REP1	20-MAR-2008 14:41	S8704 (20X)
L5	136197	48116072006	STD06REP1	20-MAR-2008 14:43	S8704 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	5025.0	4574.0	4457.0	4323.4	4021.1	LINR	-0.1258	2.48E-4		4480.1	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Mercury	0.200	-38	0.500	-12	2.000	4	5.000	5	10.00	-1

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression


WinHg Database 1.5
File Utility Help
RN RN
Protocol m04hgppb
Dataset/Proto 032008 /m04hgppb
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 2.48257e-4
C -1.25824e-1
Rho .999366
Type Linear
Calibrated
Accepted
Accept
μ Abs.
40211
Accepted
New
Include S1 Rep 1 2 3 4 5
20-Mar-08 14:43
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.050 -.050 305 1 304
02 .20000 .124 -.076 1005 0% 1005
03 .50000 .442 -.058 2288 0% 2287
04 2.0000 2.09 .087 8915 0% 8914
05 5.0000 5.24 .241 21618 0% 21617
06 10.000 9.86 -.143 40211 0% 40211
Ready
NUM SCRL

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1	14:32:11 20 Mar 08	HG			
Hg	.000	ppb	304						
		Bkgd 1	17789623						= =
*** Standard: 2 Rep: 1				Seq: 2	14:34:20 20 Mar 08	HG			
Hg	.200	ppb	1005						
		Bkgd 1	17785919						= =
*** Standard: 3 Rep: 1				Seq: 3	14:36:24 20 Mar 08	HG			
Hg	.500	ppb	2287						
		Bkgd 1	17784395						= =
*** Standard: 4 Rep: 1				Seq: 4	14:38:58 20 Mar 08	HG			
Hg	2.00	ppb	8914						
		Bkgd 1	17781772						= =
*** Standard: 5 Rep: 1				Seq: 5	14:41:05 20 Mar 08	HG			
Hg	5.00	ppb	21617						
		Bkgd 1	17777666						= =
*** Standard: 6 Rep: 1				Seq: 6	14:43:10 20 Mar 08	HG			
Hg	10.0	ppb	40211						
		Bkgd 1	17774758						= =
*** Check Standard: 2			Ck2s8706	Seq: 7	14:45:25 20 Mar 08	HG			
Line	Flag		Intensities						
Hg			21221						
		Bkgd 1	17773035						= =
*** Check Standard: 1			Ck1ICB	Seq: 8	14:47:39 20 Mar 08	HG			
Line	Flag		Intensities						
Hg			164						
		Bkgd 1	17773226						= =
*** Sample ID: qc433774				Seq: 9	14:49:42 20 Mar 08	HG			
			136197,1						
Hg	-.093	ppb	134						
		Bkgd 1	17775339						= =

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: qc433775				Seq: 10	14:51:45 20 Mar 08	HG		
			136197,1					
Hg	5.47	ppb	22545					
		Bkgd 1	17774836					
*** Sample ID: qc433776				Seq: 11	14:53:59 20 Mar 08	HG		
			136197,1					
Hg	5.22	ppb	21519					
		Bkgd 1	17766574					
*** Sample ID: 202043-001				Seq: 12	14:56:02 20 Mar 08	HG		
			136197,1					
Hg	.299	ppb	1710					
		Bkgd 1	17768226					
*** Sample ID: qc433777				Seq: 13	14:58:18 20 Mar 08	HG		
			136197,5					
Hg	-.098	ppb	111					
		Bkgd 1	17768437					
*** Sample ID: qc433778				Seq: 14	15:00:27 20 Mar 08	HG		
			136197,1					
Hg	5.57	ppb	22939					
		Bkgd 1	17760942					
*** Sample ID: qc433779				Seq: 15	15:02:42 20 Mar 08	HG		
			136197,1					
Hg	5.56	ppb	22912					
		Bkgd 1	17752403					
*** Sample ID: 202019-001				Seq: 16	15:04:49 20 Mar 08	HG		
			136197,1					
Hg	3.69	ppb	15372					
		Bkgd 1	17750269					
*** Sample ID: 202019-002				Seq: 17	15:06:57 20 Mar 08	HG		
			136197,1					
Hg	6.75	ppb	27695					
		Bkgd 1	17747765					

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 202019-003 Seq: 18 15:09:04 20 Mar 08 HG
136197,1
Hg .997 ppb 4522
Bkgd 1 17744399

*** Check Standard: 3 Ck3s8707 Seq: 19 15:11:13 20 Mar 08 HG
Line Flag Intensities
Hg 11332
Bkgd 1 17748879

*** Check Standard: 6 Ck6CCB Seq: 20 15:13:21 20 Mar 08 HG
Line Flag Intensities
Hg 83
Bkgd 1 17746283

*** Sample ID: 202019-004 Seq: 21 15:15:41 20 Mar 08 HG
136197,1
Hg 4.18 ppb 17346
Bkgd 1 17749261

*** Sample ID: 202019-005 Seq: 22 15:17:56 20 Mar 08 HG
136197,1
Hg 4.34 ppb 17993
Bkgd 1 17747937

*** Sample ID: 202019-006 Seq: 23 15:20:02 20 Mar 08 HG
136197,1
Hg 1.51 ppb 6578
Bkgd 1 17753820

*** Sample ID: 202019-007 Seq: 24 15:22:07 20 Mar 08 HG
136197,1
Hg .899 ppb 4128
Bkgd 1 17756469

*** Sample ID: 202019-008 Seq: 25 15:24:45 20 Mar 08 HG
136197,1
Hg 2.40 ppb 10159
Bkgd 1 17753909

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Sample ID: 202019-009          Seq:  26    15:26:49 20 Mar 08   HG
                          136197,1
Hg     .670    ppb       3206
               Bkgd 1    17751338                                          =
                                                                           =
===============================================================================
*** Sample ID: 202019-010          Seq:  27    15:29:08 20 Mar 08   HG
                          136197,1
Hg     .862    ppb       3981
               Bkgd 1    17751489                                          =
                                                                           =
===============================================================================
*** Sample ID: 202019-011          Seq:  28    15:31:26 20 Mar 08   HG
                          136197,1
Hg     .344    ppb       1891
               Bkgd 1    17756541                                          =
                                                                           =
===============================================================================
*** Sample ID: 202043-002          Seq:  29    15:33:46 20 Mar 08   HG
                          136197,1
Hg     .089    ppb       866
               Bkgd 1    17761477                                          =
                                                                           =
===============================================================================
*** Sample ID: 202043-003          Seq:  30    15:36:03 20 Mar 08   HG
                          136197,1
Hg    -.009    ppb       472
               Bkgd 1    17767667                                          =
                                                                           =
*** Check Standard: 5  Ck5s8708    Seq:  31    15:38:18 20 Mar 08   HG
Line  Flag             Intensities
Hg                     22397
               Bkgd 1    17767589                                          =
                                                                           =
*** Check Standard: 6  Ck6CCB      Seq:  32    15:40:26 20 Mar 08   HG
Line  Flag             Intensities
Hg                     70
               Bkgd 1    17756197                                          =
                                                                           =
*** Sample ID: 202043-004          Seq:  33    15:42:33 20 Mar 08   HG
                          136197,1
Hg    -.026    ppb       402
               Bkgd 1    17762685                                          =
                                                                           =
===============================================================================
```

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 202043-005				Seq: 34	15:44:48 20 Mar 08	HG		
			136197,1					
Hg	.714	ppb	3382					
		Bkgd 1	17754994					=
								=
*** Sample ID: 202043-006				Seq: 35	15:46:53 20 Mar 08	HG		
			136197,1					
Hg	.116	ppb	975					
		Bkgd 1	17764531					=
								=
*** Sample ID: 202043-007				Seq: 36	15:49:26 20 Mar 08	HG		
			136197,1					
Hg	.133	ppb	1041					
		Bkgd 1	17762725					=
								=
*** Sample ID: 202043-008				Seq: 37	15:51:33 20 Mar 08	HG		
			136197,1					
Hg	.831	ppb	3855					
		Bkgd 1	17757673					=
								=
*** Sample ID: 202043-009				Seq: 38	15:53:37 20 Mar 08	HG		
			136197,1					
Hg	2.16	ppb	9211					
		Bkgd 1	17752452					=
								=
*** Check Standard: 4			Ck4s8709	Seq: 39	15:55:50 20 Mar 08	HG		
Line	Flag		Intensities					
Hg			33059					
		Bkgd 1	17750272					=
								=
*** Check Standard: 6			Ck6CCB	Seq: 40	15:58:05 20 Mar 08	HG		
Line	Flag		Intensities					
Hg			15					
		Bkgd 1	17750548					=
								=

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 202043
ANALYTICAL REPORT
Wet Chemistry

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065-EX1 Presidio
Petaluma, CA 94954	Level : IV

Sample ID	Lab ID
1065EX307[6.0]	202043-001
1065EX308[6.0]	202043-002
1065EX309[6.5]	202043-003
1065EX310[7.0]	202043-004
1065EX311[8.5]	202043-005
DUP031908	202043-006
1065EX312[6.0]	202043-007
1065EX313[4.5]	202043-008
1065EX314[5.5]	202043-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/03/2008
Project Manager

Signature: _____ Date: 04/03/2008
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
WET CHEMISTRY (ASTM D2216/CLP)

Laboratory number:	**202043**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065-EX1 Presidio**
Request Date:	**03/19/08**
Samples Received:	**03/19/08**

Moisture (ASTM D2216/CLP):

High RPD was observed for moisture, percent in the SDUP of 1065EX307[6.0] (lab # 202043-001). Curtis and Tompkins controls the RPD based on the % solids which was within quality control criteria.

No other analytical problems were encountered.

#
66.1

Curtis & Tompkins, Ltd.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD

202043

3835

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065-Ex 1
JOB NO.: 408807 5115 07.4
SAMPLERS (SIGNATURE): [signature]
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 3/19/08

TIME	GRAB	COMP	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES including VOCs (8260B) BTEX & 2-Methoxyethanol; TPH-D (8015M); TPH-G (8015M); PAHs (8270-SIM w-Silica Gel); Title 22 Metals	FOR LAB USE ONLY
1005	X		SO	1065EX307[6.0]	SW 51N76E		14	X X X X X	
1025	X		SO	1065EX308[6.0]	SW 50N82E		7	X X X X X	
1040	X		SO	1065EX309[6.5]	SW 30N31E		7	X X X X X	
1105	X		SO	1065EX310[7.0]	SW 12N31E		7	X X X X X	
1125	X		SO	1065EX311[8.5]	B 21N44E		7	X X X X X	
1125	X		SO	DUP031908	B		7	X X X X X	
1150	X		SO	1065EX312[6.0]	B 26N66E		7	X X X X X	
1200	X		SO	1065EX313[4.5]	SW 3N80E		7	X X X X X	
1215	X		SO	1065EX314[5.5]	SW 29N71E		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
[signature]	3/19/08 1230	[signature]	3/19/08 1230			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
48-hr TAT

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

Anna Pajarillo

From: "Carlyon, Kristen" <KACARLYON@mactec.com>
To: "Anna M. Pajarillo" <anna@ctberk.com>
Cc: "Hart, Mary" <MCHART@mactec.com>; "Heassler, Mary Jo" <MHeassler@mactec.com>
Sent: Friday, March 21, 2008 1:06 PM
Subject: RE: 4084075115 - C&T Login Summary (202043)

Anna,

Please change this job to a level IV.

Kristen

From: Anna M. Pajarillo [mailto:anna@ctberk.com]
Sent: Friday, March 21, 2008 11:56 AM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Evans, Kathleen; Hart, Mary; Albrecht, Frederic
Subject: 4084075115 - C&T Login Summary (202043)

Status: Results will be emailed late today. TVH gas department is running on hold times, but are trying to fit these in today. I may not have ending CCVs, so results will be draft. -Anna

C&T Login Summary for 202043

Project: 4084075115 **Site:** Bldg 1065-EX1 Presidio **Lab Login #:** 202043 **Report Due:** 03/21/08 **PO#:** 200704465 **C&T Proj Mgr:** Anna M. Pajarillo	**Report To:** Mactec, Inc. 5341 Old Redwood Hwy Suite 300 Petaluma, CA 94954 ATTN: Mary Jo Heassler (707) 793-3800	**Bill To:** Mactec, Inc. 1105 Sanctu Suite 300 Alpharetta, (ATTN: Acc (415) 278-2

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	
1065EX307[6.0]	001	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		MS/MSD
				Soil	E8260		MS/MSD
				Soil	ETVH		MS/MSD
				Soil	MOISTURE		MS/MSD
				Soil	T26 MET		MS/MSD
				Soil	TEHM		MS/MSD, S.GEL
1065EX308[6.0]	002	03/19	03/19			3835	ICP Okay for Bldg 1065; P.
				Soil	8270-SIM		

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 202043 Date Received 3/19/08 Number of coolers 1
Client MACTEC Project BUILDING 1065-EX1

Date Opened 3/19/08 By (print) M. VILLANUEVA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ (NO)
How many Name Date
2B. Were custody seals intact upon arrival? ..... YES NO (N/A)
3. Were custody papers dry and intact when received? ..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None

☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A

Type of ice used: ☑ WET ☐ BLUE ☐ NONE Temp(°C) NO TEMP BLANK

☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... (YES) NO
If YES, what time were they transferred to freezer? 16:30
9. Did all bottles arrive unbroken/unopened? ..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... YES NO (N/A)
15. Are bubbles absent in VOA samples? ..... YES NO (N/A)
16. Was the client contacted concerning this sample delivery? ..... YES NO
If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins, Ltd.

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	136212
Matrix:	Soil	Sampled:	03/19/08
Units:	%	Received:	03/19/08
Diln Fac:	1.000	Analyzed:	03/20/08

Field ID	Lab ID	Result	RL
1065EX307[6.0]	202043-001	22	1
1065EX308[6.0]	202043-002	15	1
1065EX309[6.5]	202043-003	16	1
1065EX310[7.0]	202043-004	16	1
1065EX311[8.5]	202043-005	21	1
DUP031908	202043-006	21	1
1065EX312[6.0]	202043-007	16	1
1065EX313[4.5]	202043-008	15	1
1065EX314[5.5]	202043-009	18	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	202043	Location:	Bldg 1065-EX1 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	1065EX307[6.0]	Diln Fac:	1.000
Type:	SDUP	Batch#:	136212
MSS Lab ID:	202043-001	Sampled:	03/19/08
Lab ID:	QC433840	Received:	03/19/08
Matrix:	Soil	Analyzed:	03/20/08

MSS Result	Result	RL	RPD Lim
21.93	18.31	1.000	18 * 15

*= Value outside of QC limits; see narrative
RL= Reporting Limit
RPD= Relative Percent Difference

Percent Moisture Summary Report

Batch: 136212
Date: 03/20/08
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
201910-001	11.3958	20.7815	18.8456	79	21
201911-001	11.2914	18.6139	17.1134	80	20
201923-001	11.2665	18.6317	15.0491	51	49
202001-001	11.3710	20.8482	20.2837	94	6
202001-002	11.0970	20.7543	19.8042	90	10
202043-001	10.9167	18.1856	16.5912	78	22
202043-002	11.3754	19.6561	18.4344	85	15
202043-003	11.1562	19.4867	18.1759	84	16
202043-004	10.8783	20.2226	18.6901	84	16
202043-005	11.2950	21.0784	19.0596	79	21
202043-006	11.4464	19.0972	17.5210	79	21
202043-007	11.1105	19.2548	17.9418	84	16
202043-008	11.0697	18.2736	17.2100	85	15
202043-009	11.0773	19.4188	17.9330	82	18
202075-001	11.0987	17.6472	17.3618	96	4
QC433840	11.1441	19.2708	17.7828	82	18
of 202043-001			RPD:	4.5%	18.0%

PROJECT MOISTURE

NOTEBOOK NO. BK 2692

Continued From Page

3.20.08

BH 136212

SAMPLE	SL	DISH	DISH WT	SAMPLE WT	FINAL WT	COMMENTS
BLK	–	CT8	11.3876	~~Ø~~	11.3872	
201910-001	A	C53	11.3458	20.7815	18.8456	
201911-001	↓	C29	11.2914	18.6139	17.1134	
201923-001	E ~~AD 3200~~	K02	11.2665	18.6317	15.0491	
202001-001	A	D35	11.3710	20.8482	~~20.3014~~	20.2837
↓ 002	↓	B109	11.0970	20.7543	19.8047	
202043-001	M	DEV	10.9167	18.1856	16.5912	
SOUP -001	↓	AAA	11.1441	19.2908	17.7828	
002	Q	CT18	11.3754	19.6561	18.4344	
003		B115	11.1562	19.4867	18.1759	
004		MAD	10.8783	20.2226	18.6901	
005		ACL	11.2950	21.0784	19.0596	
006		B16	11.4464	19.0972	17.5210	
007		JNH	11.1105	19.2548	17.9418	
008		E8	11.0697	18.2736	17.2100	
009	↓	B107	11.0773	19.4188	17.9330	
202075-001	A	B121	11.0987	17.6472	17.3618	

TIME IN ~~7P~~
AT 1PM
OVEN TEMP 104°C

Continued on Page

Read and Understood by

3.20.08
Date

3-21-08

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 136212
Date Started: 20-MAR-2008
Batched by : Hanz Olonan

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
201910-001		Tetra Tech EMI	Soil	MOISTURE	24-MAR-2008
201911-001		Tetra Tech EMI	Soil	MOISTURE	24-MAR-2008
201923-001		CH2M Hill Construc	Soil	MOISTURE	24-MAR-2008
202001-001		Erler & Kalinowski	Soil	MOISTURE	24-MAR-2008
202001-002		Erler & Kalinowski	Soil	MOISTURE	24-MAR-2008
202043-001		Mactec, Inc.	Soil	MOISTURE	21-MAR-2008
202043-002		Mactec, Inc.	Soil	MOISTURE	21-MAR-2008
202043-003		Mactec, Inc.	Soil	MOISTURE	21-MAR-2008
202043-004		Mactec, Inc.	Soil	MOISTURE	21-MAR-2008
202043-005		Mactec, Inc.	Soil	MOISTURE	21-MAR-2008
202043-006		Mactec, Inc.	Soil	MOISTURE	21-MAR-2008
202043-007		Mactec, Inc.	Soil	MOISTURE	21-MAR-2008
202043-008		Mactec, Inc.	Soil	MOISTURE	21-MAR-2008
202043-009		Mactec, Inc.	Soil	MOISTURE	21-MAR-2008
202075-001		URS Corporation	Soil	MOISTURE	21-MAR-2008
QC433840	SDUP of 202043-001		Soil	MOISTURE	

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Note: If temperature is outside range, adjust, recheck & document new temp.

Benchbook: BK 1926

page: 8

Date	Initials	Temp (*C)
12-22-07	HD	105°C
12-23-07	HD	105°C
12-26-07	HD	105°C
12-27-07	VV	105°C
12-28-07	VV	103°C
12-29-07	HD	104°C
12-30-07	HD	104°C
1-3-08	VV	104°C
1-4-08	VV	103°C
1-5-08	HD	105°C
1-6-08	HD	105°C
1-9-08	VV	104°C
1-10-08	VV	103°C
1-11-08	VV	104°C
1-12-08	HD	103°C
1-13-08	HD	103°C
1-14-08	VV	103°C
1-15-08	VV	103°C
1-16-08	VV	105°C
1-17-08	VV	105°C
1-18-08	VV	105°C
1-19-08	HD	105°C
1-21-08	VV	105°C
1-22-08	VV	105°C
1-23-08	VV	104°C
1-24-08	VV	105°C
1-25-08	VV	103°C
1-27-08	HD	103°C
1-28-08	VV	104°C
1-29-08	VV	104°C
1-30-08	VV	104°C
1-31-08	VV	104°C
2-1-08	VV	103°C
2-2-08	HD	103°C
2-3-08	HD	103°C
2-4-08	VV	103°C
2-5-08	VV	105°C
2-6-08	VV	104°C
2-7-08	VV	103°C
2-8-08	VV	103°C
2-9-08	HD	103°C
2-10-08	HD	103°C

Date	Initials	Temp (*C)
2-11-08	VV	104°C
2-12-08	VV	104°C
2-13-08	VV	105°C
2-14-08	VV	105°C
2-15-08	VV	104°C
2-16-08	HD	103°C
2-19-08	VV	103°C
2-20-08	VV	104°C
2-21-08	HD	104°C
2-22-08	VV	104°C
2-24-08	HD	103°C
2-25-08	VV	104°C
2-26-08	VV	105°C
2-27-08	VV	105°C
2-28-08	VV	104°C
2-29-08	VV	103°C
~~3-1-08~~ HD	HD	103°C
3-2-08	HD	103°C
3-3-08	VV	103°C
3-4-08	VV	103°C
3-5-08	VV	104°C
3-6-08	VV	105°C
3-7-08	VV	104°C
3-8-08	HD	101°C
3-9-08	HD	103°C
3-11-08	DHD	103°C
3-12-08	VV	103°C
3-13-08	VV	104°C
3-14-08	VV	103°C
3-15-08	VV	104°C
3-17-08	VV	103°C
3-18-08	VV	105°C
3-19-08	VV	103°C
3-20-08	VV	104°C
3-21-08	VV	104°C

88
PROJECT METTLER AE-200 Balance Notebook No. BK 0782
Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	Initial	Weight Set.
3-21-05	0.2007	1.0000	10.0000	50.0000	✓✓	10827

Continued on Page

Read and Understood By

Signed Date Signed Date

PROJECT METTLER AE 2000 Balance calibration NOTEBOOK No. 0952

Continued From Page 8

DATE	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	INIT	weight set
02-12-08	0-2000	0-5000	1.0000	5.0000	10.000	20.0000	50.0000	VV	10827
02-13-08	0.2000	0-5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
02-14-08	0.2000	0-5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
02-15-08	0-2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-16-08	0.2000	0.5000	1.0000	5.000	10.0000	20.0000	50.0000	VV	10827
2-19-08	0-2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-20-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-21-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-22-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-24-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-25-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-26-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-27-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-28-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
2-29-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-1-08	0.2000	5.0001	1.0001	5.0001	10.0001	20.0001	50.0001	VV	10827
3-2-08	0.2000	5.0000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-3-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-4-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-5-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-6-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-7-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-8-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-9-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-10-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-11-08	0.2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-12-08	0-2000	0.5000	1.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-13-08	0.2000	0.5000	10.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-14-08	0.2000	0.5000	10.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-15-08	0.2000	0.5000	10.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-17-08	0.2000	0.5000	10.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-18-08	0.2000	0.5000	10.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-19-08	0.2000	0.5000	10.0000	5.0000	10.0000	20.0000	50.0000	VV	10827
3-20-08	0.2000	0.5000	10.0000	5.0000	10.0000	20.0000	50.0000	VV	10827

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 202203
ANALYTICAL REPORT

Mactec, Inc. 5341 Old Redwood Hwy Petaluma, CA 94954	Project : 4084075115 Location : Bldg 1065 Presidio Level : III

Sample ID	Lab ID
1065EX315[5.0]	202203-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/09/2008
Project Manager

Signature: _____ Date: 04/09/2008
Operations Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	202203
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065 Presidio
Request Date:	03/26/08
Samples Received:	03/26/08

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 03/26/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
5035 samples not analyzed within 48 hours were frozen. High surrogate recoveries were observed for bromofluorobenzene (FID) and trifluorotoluene (FID) in the MS of 1065EX315[5.0] (lab # 202203-001). The spike recovery was within criteria. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 136625; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
5035 samples not analyzed within 48 hours were frozen. Low response was observed for Freon 12 in the ICV analyzed 02/28/08 19:47; this analyte was not detected at or above the RL in the associated samples. Low responses were observed for many analytes in the CCV analyzed 03/27/08 09:33; these analytes met minimum response criteria. High response was observed for chloromethane; this analyte was not detected at or above the RL in the associated samples. Methylene chloride was detected between the MDL and the RL in the method blank for batch 136446; this analyte was not detected in the sample at or above the RL. Methylene chloride was detected between the MDL and the RL in 1065EX315[5.0] (lab # 202203-001); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
Low responses were observed for benzo(g,h,i)perylene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene in the CCV analyzed 03/26/08 23:03; these analytes met minimum response criteria. Low recovery was observed for pyrene in the MS of 1065EX315[5.0] (lab # 202203-001); the low recovery was confirmed by re-analysis, and the LCS was within limits. High recoveries were observed for acenaphthene and pyrene in the MSD of 1065EX315[5.0] (lab # 202203-001); these high recoveries were confirmed by re-analysis, and the LCS was within limits. High RPD was observed for acenaphthene in the MS/MSD of 1065EX315[5.0] (lab # 202203-001); the high RPD was confirmed by re-analysis, and this analyte was not detected at or above the RL in the associated sample. Response exceeding the instrument's linear range was observed for pyrene in the MSD of 1065EX315[5.0] (lab # 202203-001); affected data was

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	202203
Client:	Mactec, Inc.
Project:	4084075115
Location:	Bldg 1065 Presidio
Request Date:	03/26/08
Samples Received:	03/26/08

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
qualified with "b". No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for many analytes in the MS/MSD of 1065EX315[5.0] (lab # 202203-001); the BS/BSD were within limits, and the associated RPDs were within limits. High recoveries were observed for copper, lead, and zinc; the BS/BSD were within limits. High RPD was also observed for copper, lead, and zinc; the RPD was acceptable in the BS/BSD. High % difference was observed for beryllium in the serial dilution of 1065EX315[5.0] (lab # 202203-001). No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

Chain of Custody

MACTEC

CHAIN OF CUSTODY RECORD 202203 3837

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065 - Ex 1
JOB NO.: 4084075115 02.4
SAMPLERS (SIGNATURE): Scott Bah
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 3/26/08

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES including: VOCs (8260B) BTEX & Chlorinated; TPHg (8015M); TPHd/TPHo-w silica gel; PAHs (8270-SIM); Title 22 Metals	FOR LAB USE ONLY
1045	X		SO	1065EX315[SA]-1	27N76E-5 SW	+ MS/MSD	14	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
[redacted]	3/26/08 1110	[redacted]	3/26/08 1110			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl-3 Data Validation
5-Day TAT
* RECEIVED ON ICE

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: _____ Date: _____

F1008 (05/00)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 202203 Date Received 3/26/08 Number of coolers 1
Client MACTEC Project Presidio

Date Opened 3/26/08 By (print) K Welbrock (sign) K Welbrock
Date Logged in ↓ By (print) _____ (sign) _____

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? ..... YES NO (N/A)
3. Were custody papers dry and intact when received? ..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A
   Type of ice used: ☒ WET ☐ BLUE ☐ NONE Temp(°C) no temp ø
   ☒ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.
8. Were soil Encore sampling devices present? ..... (YES) NO
   If YES, what time were they transferred to freezer? 3/26 1445
9. Did all bottles arrive unbroken/unopened? ..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... YES NO (N/A)
15. Are bubbles absent in VOA samples? ..... YES NO (N/A)
16. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____
_____

TPH-PURGEABLE HYDROCARBONS IN SOIL

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX315[5.0]	Batch#:	136625
Matrix:	Soil	Sampled:	03/26/08
Units:	mg/Kg	Received:	03/26/08
Diln Fac:	1.000	Analyzed:	04/01/08

Type: SAMPLE
Lab ID: 202203-001
Basis: dry
Moisture: 16%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.031 J	0.19	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	65-135
Bromofluorobenzene (FID)	117	65-135

Type: BLANK
Lab ID: QC435616
Basis: as received

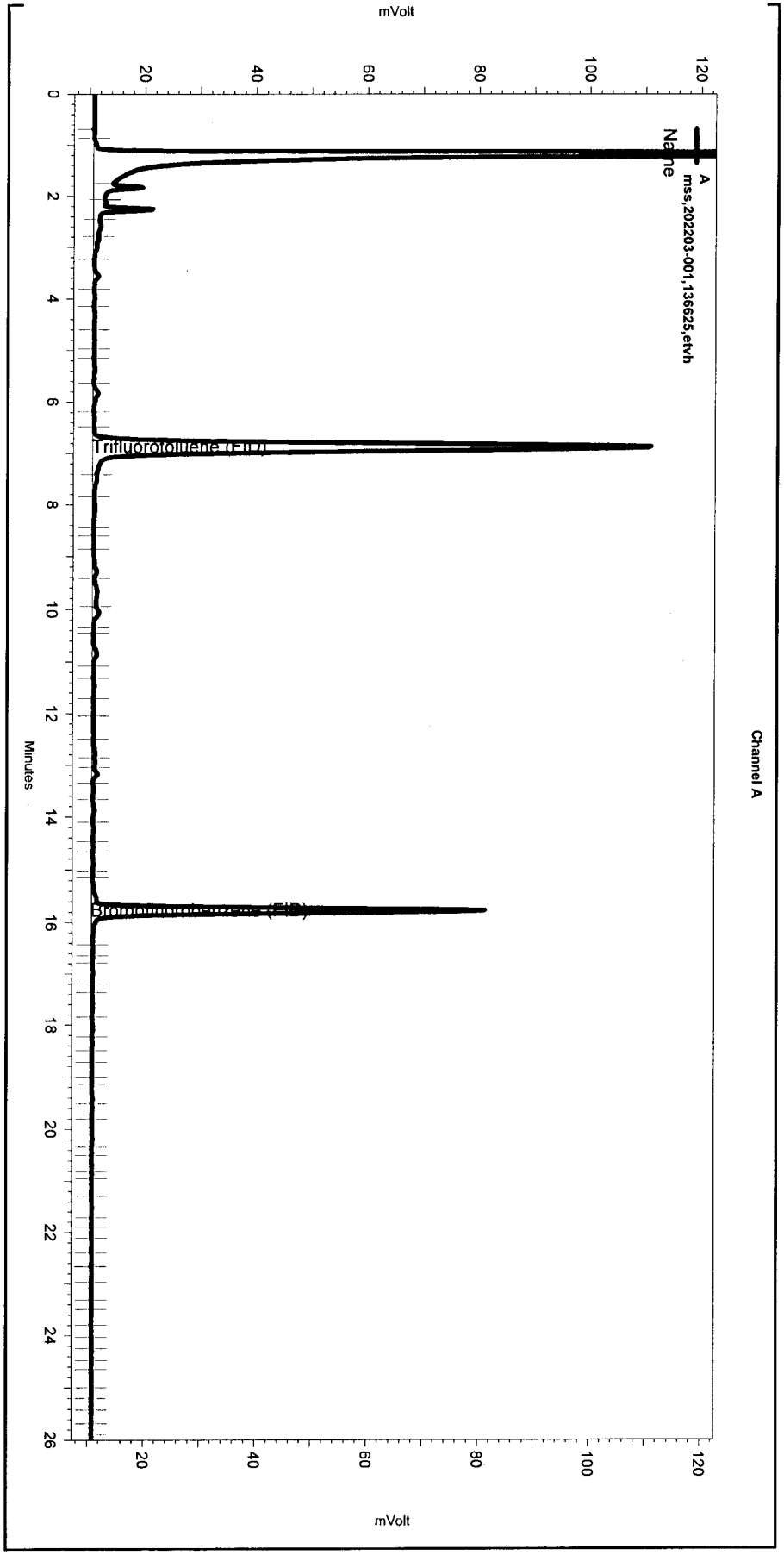
Analyte	Result	RL	MDL
Gasoline C7-C12	0.039 J	0.20	0.015

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	65-135
Bromofluorobenzene (FID)	120	65-135

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC19\Sequence\092.seq**
Sample Name: **mss,202203-001,136625,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC19\Data\092_008**
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe079.met

Software Version 3.1.7
Run Date: 4/1/2008 7:36:36 PM
Analysis Date: 4/2/2008 7:49:40 AM
Sample Amount: 6.27 Multiplier: 6.27
Vial & pH or Core ID: d



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

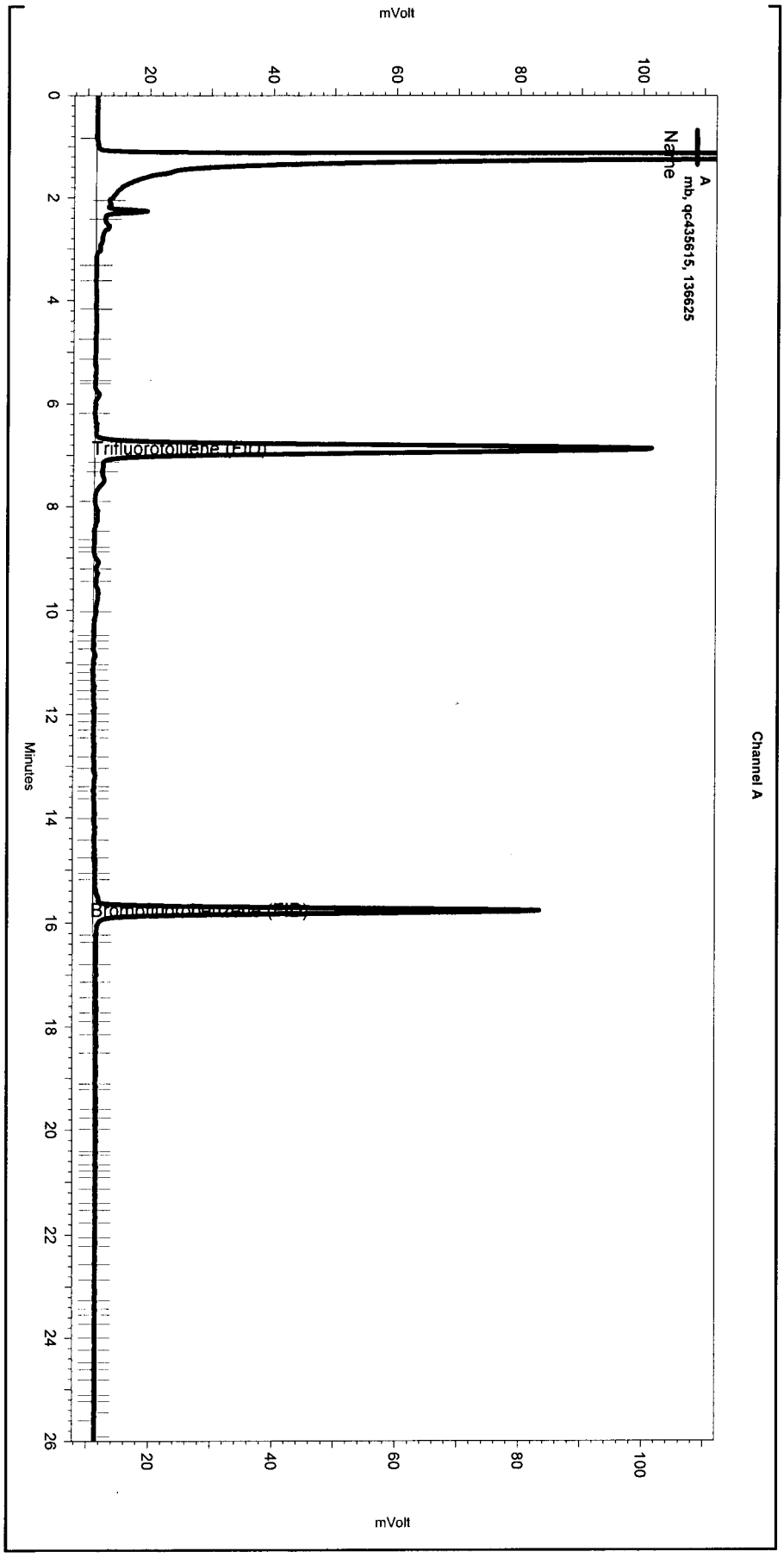
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\092_008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC19\Sequence\092.seq**
Sample Name: **mb, qc435615, 136625**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC19\Data\092_006**
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe079.met

Software Version 3.1.7
Run Date: 4/1/2008 6:21:28 PM
Analysis Date: 4/2/2008 10:04:16 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

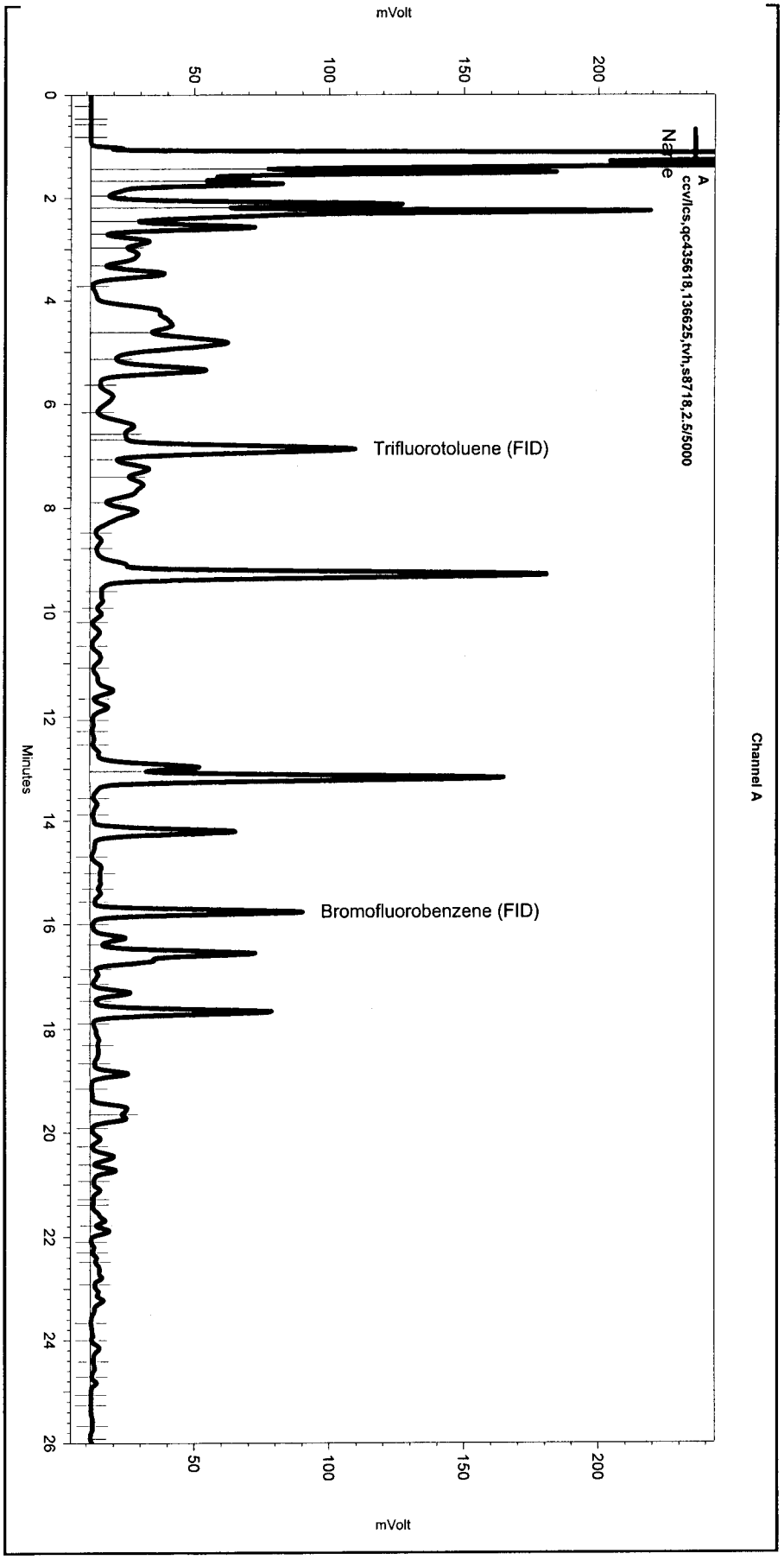
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\092_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	7.141	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC19\Sequence\092.seq**
Sample Name: **ccv/lcs,qc435618,136625,tvh,s8718,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC19\Data\092_003**
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe079.met

Software Version 3.1.7
Run Date: 4/1/2008 3:42:31 PM
Analysis Date: 4/2/2008 9:49:28 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\092_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.687	0	0

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC435618	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136625
Units:	mg/Kg	Analyzed:	04/01/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.102	102	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	65-135
Bromofluorobenzene (FID)	128	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX315[5.0]	Diln Fac:	1.000
MSS Lab ID:	202203-001	Batch#:	136625
Matrix:	Soil	Sampled:	03/26/08
Units:	mg/Kg	Received:	03/26/08
Basis:	dry	Analyzed:	04/01/08

Type: MS Moisture: 16%
Lab ID: QC435619

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.03078	1.961	1.674	84	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	140 *	65-135
Bromofluorobenzene (FID)	136 *	65-135

Type: MSD Moisture: 16%
Lab ID: QC435620

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.785	1.404	77	75-125	8	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	65-135
Bromofluorobenzene (FID)	111	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202203 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC19
Calnum : 348076830001
Units : ng

Name : GC19 MBTXE/SURR 053
Date : 23-FEB-2008 03:36
X Axis : R

Reviewer : LH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	053_028	348076830028	BTXE_1	23-FEB-2008 03:36	S7770 (1000X), S8275 (5000X)
L2	053_029	348076830029	MBTXE_2	23-FEB-2008 04:14	S7769 (1250X), S8275 (5000X)
L3	053_030	348076830030	MBTXE_3	23-FEB-2008 04:51	S7769 (500X), S8275 (5000X)
L4	053_031	348076830031	MBTXE_4	23-FEB-2008 05:29	S7769 (125X), S8275 (5000X)
L5	053_032	348076830032	MBTXE_5	23-FEB-2008 06:06	S7768 (1000X), S8275 (5000X)
L6	053_033	348076830033	MBTXE_6	23-FEB-2008 06:44	S7768 (500X), S8275 (5000X)
L7	053_034	348076830034	MBTXE_7	23-FEB-2008 07:21	S7768 (250X), S8275 (5000X)
L8	053_035	348076830035	MTBE_7	23-FEB-2008 07:59	S7767 (500X), S8275 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	1996.9	2003.4	1893.6	1854.9	1881.6	1997.0	1865.0	1922.5	AVRG		5.19E-4		1926.9	3	0.995	20	
Bromofluorobenzene (FID)	A	889.56	908.38	822.03	822.56	889.57	957.03	945.06	858.88	AVRG		0.00113		886.63	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Trifluorotoluene (FID)	A	450.0	4	450.0	4	450.0	-2	450.0	-4	450.0	-2	450.0	4	450.0	-3	450.0	0
Bromofluorobenzene (FID)	A	450.0	0	450.0	2	450.0	-7	450.0	-7	450.0	0	450.0	8	450.0	7	450.0	-3

PDM 02/23/08 : MTBE fails low on Channel C, this analyte will only be reported from Channel B

Analyst: PDM Date: 02/23/08 Reviewer: LH Date: 02/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202203 GCVOA Soil: EPA 8015B

Inst : GC19
Calnum : 348115217001
Units : ng

Name : GC19 tvh079
Date : 21-MAR-2008 03:06
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079_043	348115217043	TVH 1	21-MAR-2008 03:06	S7784 (1000X), S8641 (5000X)
L2	079_044	348115217044	TVH 2	21-MAR-2008 03:43	S7783 (1000X), S8641 (5000X)
L3	079_045	348115217045	TVH 3	21-MAR-2008 04:21	S7782 (1000X), S8641 (5000X)
L4	079_046	348115217046	TVH 4	21-MAR-2008 04:58	S7781 (2000X), S8641 (5000X)
L5	079_047	348115217047	TVH 5	21-MAR-2008 05:36	S7781 (1000X), S8641 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2139.7	1597.6	1527.1	1632.3	1698.7	AVRG		5.82E-4		1719.1	14	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.0	24	2500	-7	10000	-11	25000	-5	50000	-1

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202203 GCVOA Soil
EPA 8015B

Inst : GC19
Calnum : 348115217001

Name : GC19 tvh079
Cal Date : 21-MAR-2008

ICV 348115217050 (079_050 21-MAR-2008) stds: S8283 (1000X), S8641 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	1719.1	1485.3	10000	8640	ng	-14	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202203 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC435617 IDF : 1.0
Seqnum : 348133384002.3 File : 092_002 Time : 01-APR-2008 15:04
Cal : 348076830001 Caldate : 23-FEB-2008
Standards: S8449 (2000X), S8641 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	1926.9	1981.5	504.0	518.3	ng	3	15	
Bromofluorobenzene (FID)	A	886.63	1085.8	504.0	617.2	ng	**22**	15	c+

PDM 04/02/08 : MBTXE analytes reported from Channel B, except for ethylbenzene which is reported from Channel C [general version]

PDM 04/02/08 : FID surrogates n/a; PID surrogates pass control limits [general version]

Analyst: PDM Date: 04/03/08 Reviewer: MMP Date: 04/03/08

+=high bias c=CCV

348133384002.3

CURTIS & TOMPKINS SPIKE USER REPORT FOR 202203 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC435618 IDF : 1.0
Seqnum : 348133384003.3 File : 092_003 Time : 01-APR-2008 15:42
Standards: S8718 (2000X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348115217001	21-MAR-2008	1719.1	1754.2	5000	5102	ng	2	15	u
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2177.8	504.0	569.6	ng	13	15	u
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1132.2	504.0	643.6	ng	**28**	15	c+ u

PDM 04/02/08 : PID surrogates are not applicable. [general version]

PDM 04/02/08 [Trifluorotoluene (FID) A]: Passes control limits. [general version]

PDM 04/02/08 [Bromofluorobenzene (FID) A]: Passes control limits. [general version]

Analyst: PDM Date: 04/03/08 Reviewer: MMP Date: 04/03/08

+=high bias c=CCV u=use

348133384003.3

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202203 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : BTXE IDF : 1.0
Seqnum : 348133384014 File : 092_014 Time : 01-APR-2008 23:21
Cal : 348076830001 Caldate : 23-FEB-2008
Standards: S8449 (666.7X), S8641 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	1926.9	2081.7	504.0	544.5	ng	8	15	
Bromofluorobenzene (FID)	A	886.63	1110.3	504.0	631.1	ng	**25**	15	c+

PDM 04/02/08 : MTBE reported form Channel B

PDM 04/02/08 : FID surrogates N/A; PID surrogates pass control limits

Analyst: PDM Date: 04/02/08 Reviewer: MMP Date: 04/03/08

+=high bias c=CCV

348133384014

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202203 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 348133384015 File : 092_015 Time : 01-APR-2008 23:59
Standards: S8718 (666.7X), S8641 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	348115217001	21-MAR-2008	1719.1	1636.2	15000	14280	ng	-5	15	
Trifluorotoluene (FID)	A	348076830001	23-FEB-2008	1926.9	2402.1	504.0	628.3	ng	**25**	15	c+
Bromofluorobenzene (FID)	A	348076830001	23-FEB-2008	886.63	1150.9	504.0	654.2	ng	**30**	15	c+

PDM 04/02/08 : PID surrogates are not applicable.

PDM 04/02/08 [Trifluorotoluene (FID) A]: Passes control limits.

PDM 04/02/08 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: PDM Date: 04/02/08 Reviewer: MMP Date: 04/03/08

+=high bias c=CCV

348133384015

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348076830

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 02/22/08 08:30
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	053_001	X	CMARK			02/22/08 08:30	1.0	1 2	
002	053_002	CCV/LCS	QC429338	Soil	135092	02/22/08 09:07	1.0	3 2	2:BZME=5000
003	053_003	X	IB			02/22/08 09:59	1.0	2	
004	053_004	X	IB			02/22/08 10:48	1.0	2	
005	053_005	BLANK	QC429337	Soil	135092	02/22/08 11:26	1.0	2	
006	053_006	MSS	201306-002	Soil	135092	02/22/08 13:25	1.0	2	
007	053_007	SAMPLE	201331-001	Soil	135092	02/22/08 14:23	1.0	2	
008	053_008	SAMPLE	201331-002	Soil	135092	02/22/08 15:01	1.0	2	
009	053_009	SAMPLE	201331-003	Soil	135092	02/22/08 15:43	1.0	2	
010	053_010	SAMPLE	201331-004	Soil	135092	02/22/08 16:21	1.0	2	
011	053_011	MS	QC429339	Soil	135092	02/22/08 16:59	1.0	3 2	3:BZME=9000
012	053_012	MSD	QC429340	Soil	135092	02/22/08 17:36	1.0	3 2	3:BZME=8700
013	053_013	CCV	TVH			02/22/08 18:14	1.0	3 2	4:BZME=9900
014	053_014	X	CCV			02/22/08 18:51	1.0	3 2	
015	053_015	X	CMARK			02/22/08 19:29	1.0	1 2	
016	053_016	SAMPLE	201331-005	Soil	135092	02/22/08 20:06	1.0	2	
017	053_017	SAMPLE	201331-006	Soil	135092	02/22/08 20:44	1.0	2	
018	053_018	SAMPLE	201331-007	Soil	135092	02/22/08 21:21	1.0	2	
019	053_019	SAMPLE	201331-008	Soil	135092	02/22/08 21:59	1.0	2	
020	053_020	SAMPLE	201331-009	Soil	135092	02/22/08 22:36	1.0	2	
021	053_021	SAMPLE	201331-010	Soil	135092	02/22/08 23:14	1.0	2	
022	053_022	CCV	TVH			02/22/08 23:51	1.0	3 2	5:BZME=14000
023	053_023	X	CCV			02/23/08 00:29	1.0	3 2	
024	053_024	X	CMARK			02/23/08 01:06	1.0	1 2	
025	053_025	X	IB			02/23/08 01:44	1.0	2	
026	053_026	X	IB			02/23/08 02:21	1.0	2	
027	053_027	X	IB			02/23/08 02:59	1.0	2	
028	053_028	ICAL	BTXE_1			02/23/08 03:36	1.0	4 2	
029	053_029	ICAL	MBTXE_2			02/23/08 04:14	1.0	5 2	
030	053_030	ICAL	MBTXE_3			02/23/08 04:51	1.0	5 2	
031	053_031	ICAL	MBTXE_4			02/23/08 05:29	1.0	5 2	
032	053_032	ICAL	MBTXE_5			02/23/08 06:06	1.0	6 2	
033	053_033	ICAL	MBTXE_6			02/23/08 06:44	1.0	6 2	
034	053_034	ICAL	MBTXE_7			02/23/08 07:21	1.0	6 2	
035	053_035	ICAL	MTBE_7			02/23/08 07:59	1.0	7 2	
036	053_036	X	IB			02/23/08 08:36	1.0	2	
037	053_037	ICV	MBTXE			02/23/08 09:14	1.0	8 2	
038	053_038	X	MBTXE			02/23/08 10:46	1.0	8 2	
039	053_039	X	MBTXE			02/23/08 14:21	1.0	9 2	

Analyst: PDM Date: 02/23/08 Reviewer: LH Date: 02/25/08

Standards used: 1=S8201 2=S8275 3=S8391 4=S7770 5=S7769 6=S7768 7=S7767 8=S7868 9=S8465

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348115217

Instrument : GC19
Method : EPA 8015B, EPA 8021B
Begun : 03/20/08 00:17
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	079_001	X	CMARK			03/20/08 00:17	1.0	1 2
002	079_002	X	QC433640	Water	136166	03/20/08 00:55	1.0	3 2
003	079_003	X	TVH			03/20/08 01:32	1.0	3 2
004	079_004	X	201760-007	Water	136166	03/20/08 02:10	1.0	2
005	079_005	X	201760-009	Water	136166	03/20/08 02:47	1.0	2
006	079_006	X	201760-015	Water	136166	03/20/08 03:25	1.0	2
007	079_007	X	QC433658	Water	136166	03/20/08 04:02	1.0	3 2
008	079_008	X	QC433659	Water	136166	03/20/08 04:40	1.0	3 2
009	079_009	X	CMARK			03/20/08 05:17	1.0	1 2
010	079_010	X	CCV			03/20/08 05:55	1.0	3 2
011	079_011	CCV/LCS	QC433640	Water	136166	03/20/08 06:32	1.0	3 2
012	079_012	X	QC433641		136166	03/20/08 07:10	1.0	4 2
013	079_013	CCV/BS	QC433641	Water	136166	03/20/08 07:47	1.0	4 2
014	079_014	BSD	QC433657	Water	136166	03/20/08 08:25	1.0	4 2
015	079_015	X	IB			03/20/08 09:02	1.0	2
016	079_016	BLANK	QC433639	Water	136166	03/20/08 09:40	1.0	2
017	079_017	SAMPLE	201760-016	Water	136166	03/20/08 10:17	1.0	2
018	079_018	SAMPLE	201760-017	Water	136166	03/20/08 10:55	1.0	2
019	079_019	SAMPLE	201760-018	Water	136166	03/20/08 11:32	1.0	2
020	079_020	SAMPLE	201760-019	Water	136166	03/20/08 12:10	1.0	2
021	079_021	SAMPLE	201760-020	Water	136166	03/20/08 12:47	1.0	2
022	079_022	SAMPLE	201760-021	Water	136166	03/20/08 13:25	1.0	2
023	079_023	CCV	BTXE			03/20/08 14:16	1.0	4 2
024	079_024	CCV	TVH			03/20/08 14:54	1.0	3 2
025	079_025	X	CMARK			03/20/08 15:50	1.0	1 2
026	079_026	MSS	201760-007	Water	136166	03/20/08 16:28	1.0	2
027	079_027	SAMPLE	201760-009	Water	136166	03/20/08 17:05	1.0	2
028	079_028	SAMPLE	201760-015	Water	136166	03/20/08 17:43	1.0	2
029	079_029	MS	QC433658	Water	136166	03/20/08 18:20	1.0	3 2
030	079_030	MSD	QC433659	Water	136166	03/20/08 18:58	1.0	3 2
031	079_031	SAMPLE	202068-001	Water	136166	03/20/08 19:35	1.0	2
032	079_032	SAMPLE	202068-002	Water	136166	03/20/08 20:13	1.0	2
033	079_033	SAMPLE	202071-001	Water	136166	03/20/08 20:50	1.0	2
034	079_034	SAMPLE	202071-002	Water	136166	03/20/08 21:28	1.0	2
035	079_035	CCV	TVH			03/20/08 22:06	1.0	5 2
036	079_036	X	CCV			03/20/08 22:43	1.0	5 2
037	079_037	X	CCV			03/20/08 23:21	1.0	4 2
038	079_038	CCV	BTXE			03/20/08 23:58	1.0	4 2
039	079_039	CMARK	CMARK			03/21/08 00:36	1.0	6 2
040	079_040	X	IB			03/21/08 01:13	1.0	2
041	079_041	IB	IB			03/21/08 01:51	1.0	2
042	079_042	X	IB			03/21/08 02:28	1.0	2
043	079_043	ICAL	TVH 1			03/21/08 03:06	1.0	7 2
044	079_044	ICAL	TVH 2			03/21/08 03:43	1.0	8 2
045	079_045	ICAL	TVH 3			03/21/08 04:21	1.0	9 2
046	079_046	ICAL	TVH 4			03/21/08 04:58	1.0	10 2
047	079_047	ICAL	TVH 5			03/21/08 05:36	1.0	10 2
048	079_048	X	IB			03/21/08 06:13	1.0	2
049	079_049	X	ICV			03/21/08 06:51	1.0	11 2
050	079_050	ICV	TVH			03/21/08 07:28	1.0	11 2
051	079_051	X	ICV			03/21/08 08:54	1.0	12 2

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348115217

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 03/20/08 00:17
SOP Version : TVH_BTXE_rv14

Analyst: PDM Date: 03/21/08 Reviewer: LH Date: 03/21/08

Standards used: 1=S8201 2=S8641 3=S8447 4=S8449 5=S8718 6=S8671 7=S7784 8=S7783 9=S7782 10=S7781 11=S8283 12=S8109

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348133384

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 04/01/08 14:27
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	092_001	X	IB			04/01/08 14:27	1.0	1	
002	092_002	CCV/LCS	QC435617	Soil	136625	04/01/08 15:04	1.0	2 1	
003	092_003	CCV/LCS	QC435618	Soil	136625	04/01/08 15:42	1.0	3 1	
004	092_004	X	CMARK			04/01/08 16:20	1.0	4 1	
005	092_005	X	IB			04/01/08 17:43	1.0	1	
006	092_006	BLANK	QC435616	Soil	136625	04/01/08 18:21	1.0	1	
007	092_007	SAMPLE	202074-001	Soil	136625	04/01/08 18:59	1.0	1	
008	092_008	MSS	202203-001	Soil	136625	04/01/08 19:36	1.0	1	
009	092_009	MS	QC435619	Soil	136625	04/01/08 20:14	1.0	3 1	
010	092_010	MSD	QC435620	Soil	136625	04/01/08 20:51	1.0	3 1	
011	092_011	SAMPLE	202274-001	Soil	136625	04/01/08 21:29	1.0	1	
012	092_012	SAMPLE	202274-002	Soil	136625	04/01/08 22:06	1.0	1	
013	092_013	SAMPLE	202274-003	Soil	136625	04/01/08 22:44	1.0	1	
014	092_014	CCV	BTXE			04/01/08 23:21	1.0	2 1	
015	092_015	CCV	TVH			04/01/08 23:59	1.0	3 1	
016	092_016	X	CCV			04/02/08 00:36	1.0	2 1	
017	092_017	X	CCV			04/02/08 01:14	1.0	3 1	
018	092_018	X	CMARK			04/02/08 01:51	1.0	4 1	
019	092_019	SAMPLE	202274-004	Soil	136625	04/02/08 02:29	1.0	1	
020	092_020	SAMPLE	202274-005	Soil	136625	04/02/08 03:06	1.0	1	
021	092_021	SAMPLE	202274-006	Soil	136625	04/02/08 03:44	1.0	1	
022	092_022	SAMPLE	202274-007	Soil	136625	04/02/08 04:21	1.0	1	
023	092_023	SAMPLE	202274-008	Soil	136625	04/02/08 04:59	1.0	1	
024	092_024	SAMPLE	202200-001	Soil	136625	04/02/08 05:36	1.0	1	
025	092_025	SAMPLE	202249-001	Soil	136625	04/02/08 06:14	1.0	1	
026	092_026	SAMPLE	202249-002	Soil	136625	04/02/08 06:51	1.0	1	
027	092_027	SAMPLE	202249-003	Soil	136625	04/02/08 07:29	1.0	1	
028	092_028	SAMPLE	202249-004	Soil	136625	04/02/08 08:06	1.0	1	6:GAS:7-12=310000
029	092_029	X	CCV			04/02/08 08:44	1.0	2 1	
030	092_030	CCV	TVH			04/02/08 09:21	1.0	3 1	
031	092_031	CCV	BTXE			04/02/08 09:59	1.0	2 1	
033	092_033	SAMPLE	202249-006	Soil	136625	04/02/08 11:14	1.0	1	
034	092_034	SAMPLE	202249-008	Soil	136625	04/02/08 11:51	1.0	1	
035	092_035	SAMPLE	202249-009	Soil	136625	04/02/08 12:29	1.0	1	
036	092_036	SAMPLE	202249-010	Soil	136625	04/02/08 13:07	1.0	1	
037	092_037	SAMPLE	202249-011	Soil	136625	04/02/08 13:44	1.0	1	
038	092_038	CCV	BTXE			04/02/08 14:21	1.0	2 1	
039	092_039	CCV	TVH			04/02/08 14:59	1.0	3 1	
040	092_040	X	CCV			04/02/08 16:07	1.0	3 1	
041	092_041	SAMPLE	202051-001	Water	136666	04/02/08 16:45	1.0	1	
042	092_042	SAMPLE	202051-002	Water	136666	04/02/08 17:22	1.0	1	
043	092_043	MSS	202051-003	Water	136666	04/02/08 18:00	1.0	1	
044	092_044	MS	QC435806	Water	136666	04/02/08 18:37	1.0	3 1	
045	092_045	MSD	QC435807	Water	136666	04/02/08 19:15	1.0	3 1	
046	092_046	SAMPLE	202051-004	Water	136666	04/02/08 19:52	1.0	1	
047	092_047	SAMPLE	202051-005	Water	136666	04/02/08 20:30	1.0	1	
048	092_048	SAMPLE	202051-006	Water	136666	04/02/08 21:07	1.0	1	
049	092_049	SAMPLE	202051-007	Water	136666	04/02/08 21:45	1.0	1	
050	092_050	LCS	QC435805	Water	136666	04/02/08 22:23	1.0	3 1	
051	092_051	CCV	TVH			04/02/08 23:00	1.0	3 1	
052	092_052	X	CMARK			04/02/08 23:38	1.0	4 1	
053	092_053	X	IB			04/03/08 00:15	1.0	1	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348133384

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 04/01/08 14:27
SOP Version : TVH_BTXE_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
054	092_054	BLANK	QC435804	Water	136666	04/03/08 00:53	1.0	1
055	092_055	SAMPLE	202092-001	Water	136666	04/03/08 01:30	1.0	1
056	092_056	SAMPLE	202092-002	Water	136666	04/03/08 02:08	1.0	1
057	092_057	SAMPLE	202092-003	Water	136666	04/03/08 02:45	1.0	1
058	092_058	SAMPLE	202092-004	Water	136666	04/03/08 03:23	1.0	1
059	092_059	SAMPLE	202092-005	Water	136666	04/03/08 04:00	1.0	1
060	092_060	SAMPLE	202092-006	Water	136666	04/03/08 04:38	1.0	1
061	092_061	CCV	TVH			04/03/08 05:15	1.0	3 1
062	092_062	X	CCV			04/03/08 05:53	1.0	3 1
063	092_063	X	CMARK			04/03/08 06:30	1.0	4 1
064	092_064	SAMPLE	202092-007	Water	136666	04/03/08 07:08	1.0	1

Analyst: PDM Date: 04/02/08 Reviewer: _____ Date: _____

Standards used: 1=S8641 2=S8449 3=S8718 4=S8201

Core	Sample	Jar ID	Weight (g)	Comp (?)	NaHSO4 (?)	Comments
~~202028~~	~~-001~~	~~A~~	PdM 3/29/08			
202027	-001	A	0.90	ND	ND	PdM 3/29/08
MS	202221	-001 A	0.97			
MSD	↓		0.93			
202233	-001	A	5.33			
	-002		4.49			
	-003		4.19			
	-004		4.63			
	-005		5.08			
	-006		3.44			
	-007		4.64			
	-008		4.29			
	-009	↓	4.52			
202233	-001	B	4.34	ND	ND	PdM 3/31/08
	-002		4.39			
	-003		5.18			
	-005		4.69			
	-006		4.22			
↓	-007	↓	4.30			
202234	-001	C	4.44			
	-002		4.91			
	-003		4.51			
	-004		4.92			
	-005		4.55			
	-006		5.04			
	-007		5.22			
	-008		5.65			
	-009		5.12			
	-010		5.58			
	-011	↓	4.51	↓	↓	
202200	-001	A	1.06	ND	ND	CR 4/1
202074	-001	A	.99	ND	ND	↓ 4/1/08
202203	-001	D	6.27	ND	ND	
MS	↓	E	6.07	↓	↓	
MSD	↓	F	6.17			

PdM 4/2/08

Continued on Page

PdM
Signed

3/29/08
Date

Read and Understood By

Signed

Date

Project TVH/BTXE Soil Weight logBook BK2583

Continued from Page

Core/Sample/Jar	ID	Weight (g)	Comp (?)	NaHSO4 (?)	Comments
202274-001 A		5.76	NO	NO	RAB 4/1/08
-002		5.55			
-003		5.98			
-004		6.11			
-005		6.14			
-006		5.68			
-007		5.72			
-008		1.41			
202249-001 A		6.45			
-002		6.14			
-003		6.08			
-004		6.54			
-006		5.03			
-008		5.83			
-009		5.64			
-010		6.26			
-011		6.15			

Continued on Page

Read and Understood By

PdM — Signed

4/2/08 — Date

Signed

Date

TPH-EXTRACTABLES DATA

SOIL

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX315[5.0]	Sampled:	03/26/08
Matrix:	Soil	Received:	03/26/08
Units:	mg/Kg	Prepared:	04/01/08
Diln Fac:	1.000	Analyzed:	04/02/08
Batch#:	136610		

Type:	SAMPLE	Moisture:	16%
Lab ID:	202203-001	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	9.8 Y	1.2	0.12
Fuel Oil C24-C36	88	5.9	1.3

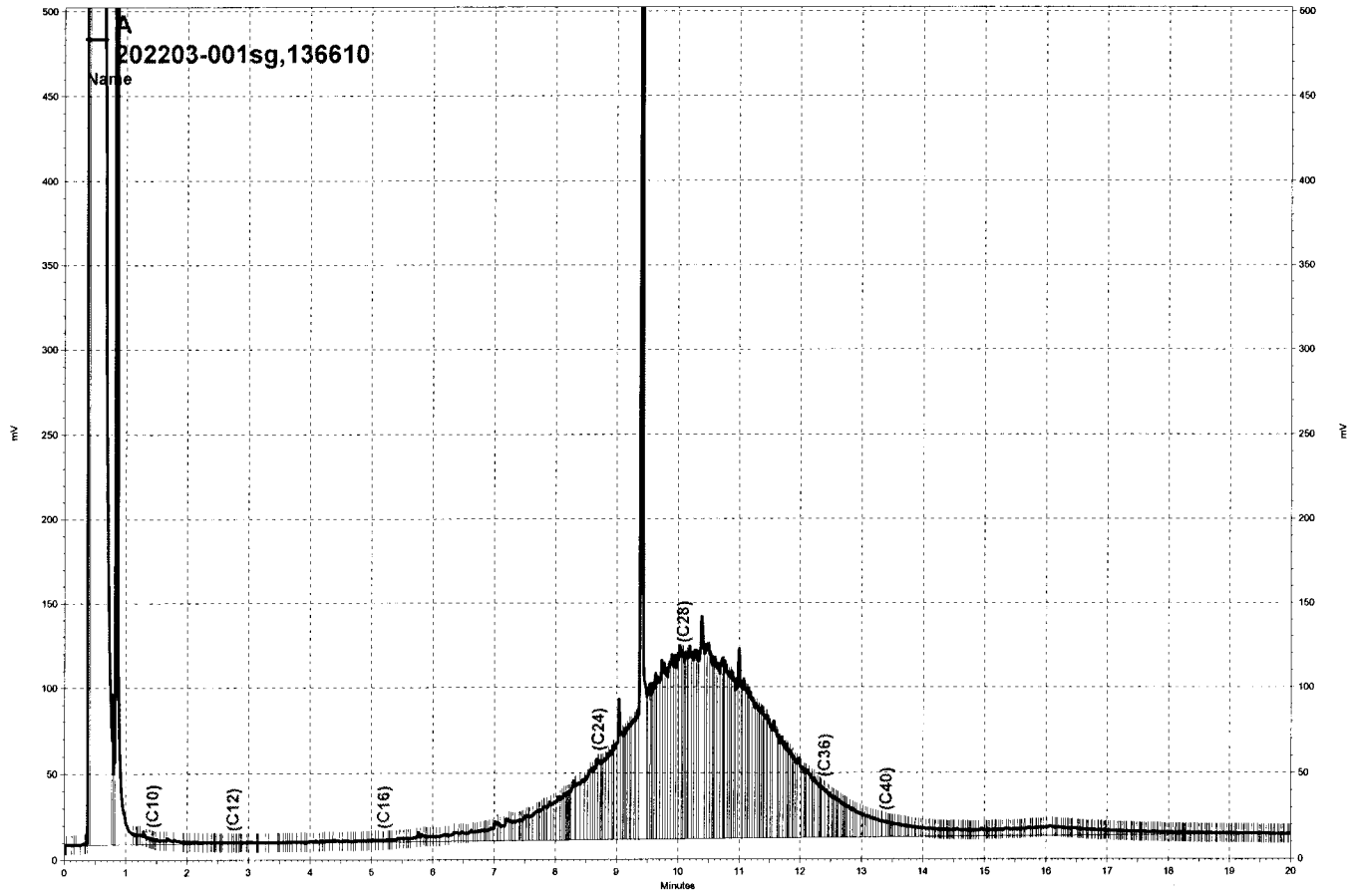
Surrogate	%REC	Limits
Hexacosane	99	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC435536	Cleanup Method:	EPA 3630C

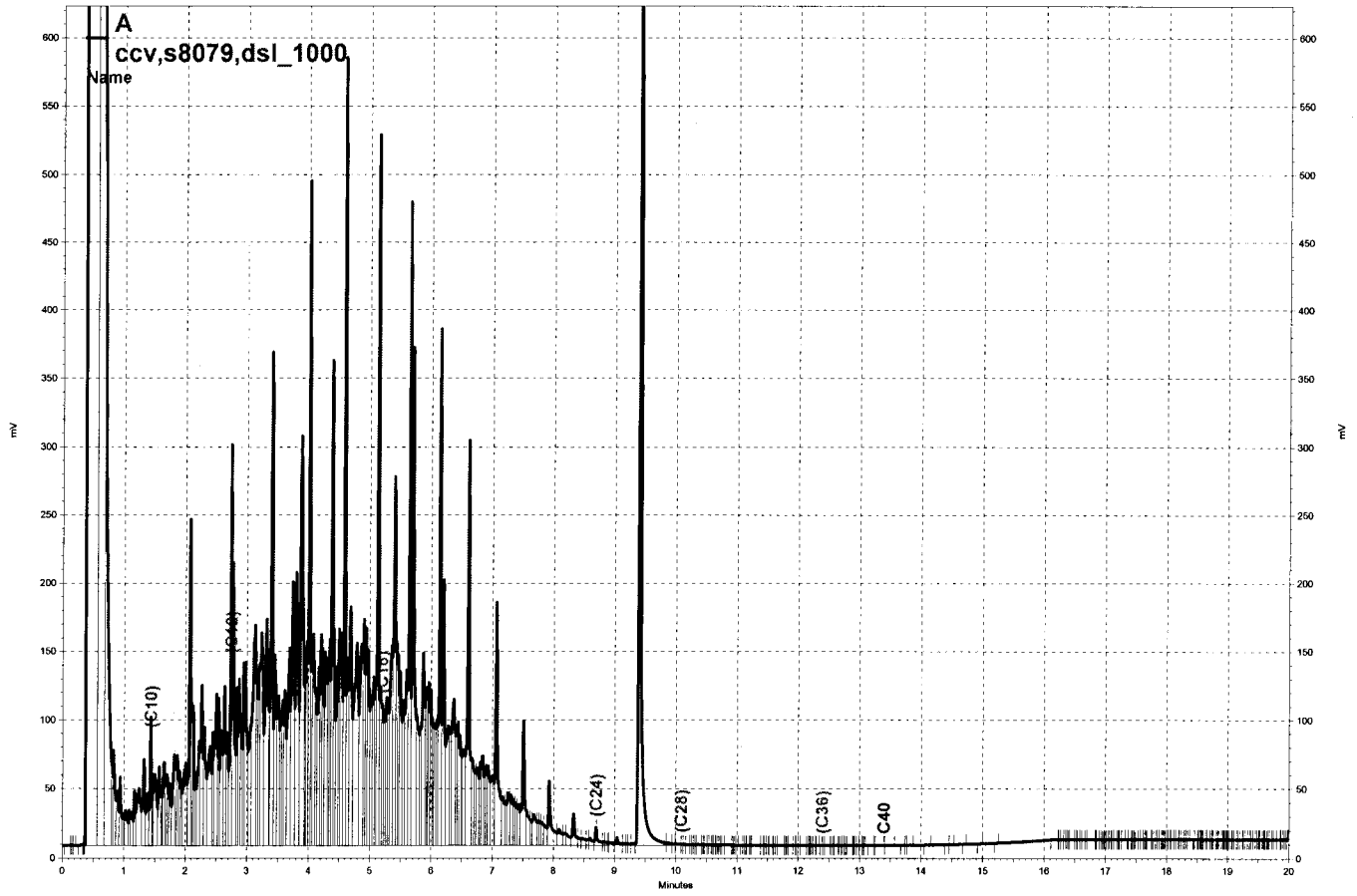
Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.099
Fuel Oil C24-C36	ND	5.0	1.1

Surrogate	%REC	Limits
Hexacosane	83	65-135

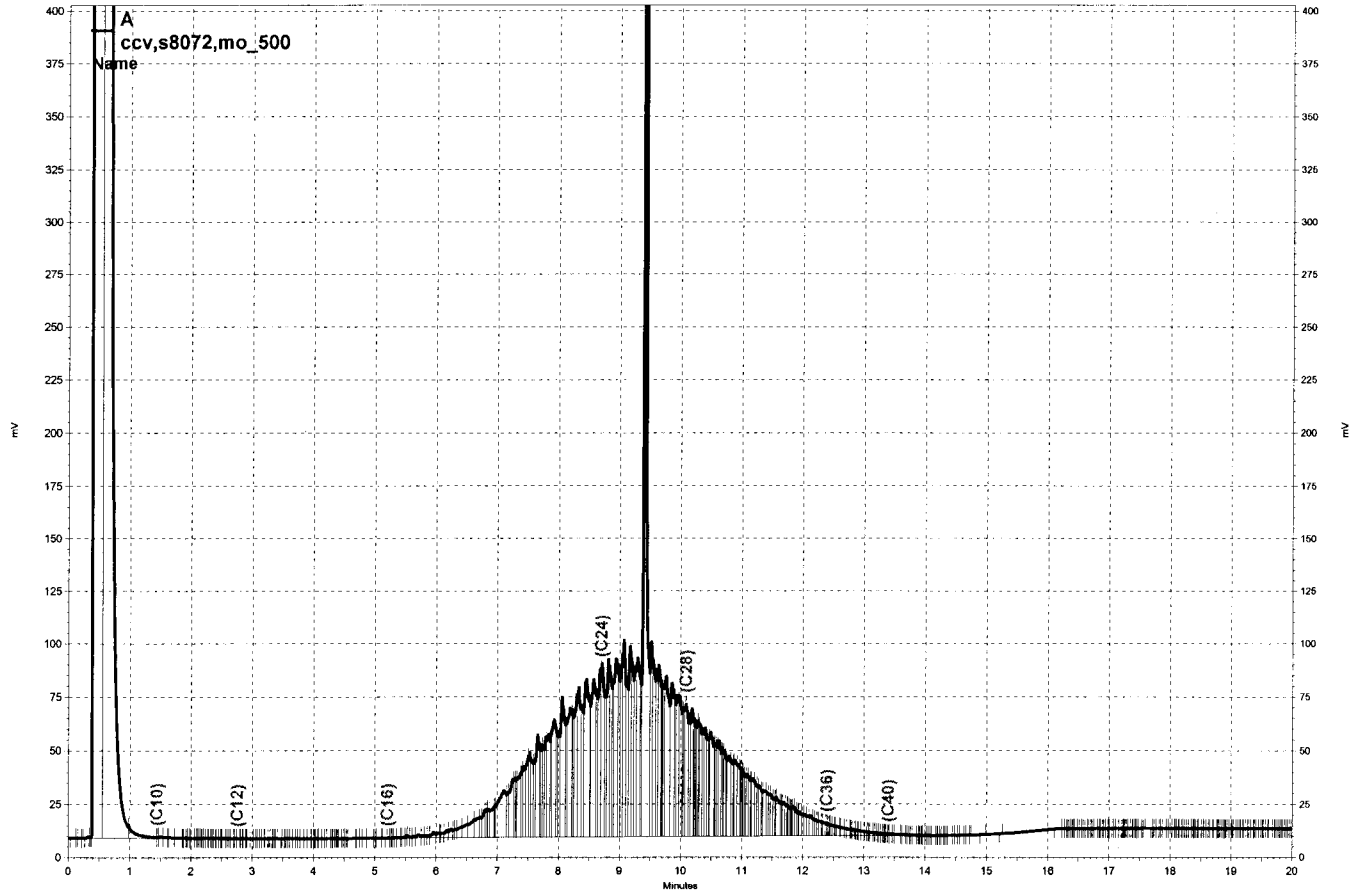
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



\\Lims\gdrive\ezchrom\Projects\GC26\Data\092a054, A



\\Lims\gdrive\ezchrom\Projects\GC26\Data\092a046, A



\\Lims\gdrive\ezchrom\Projects\GC26\Data\092a047, A

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC435537	Batch#:	136610
Matrix:	Soil	Prepared:	04/01/08
Units:	mg/Kg	Analyzed:	04/02/08
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.84	51.40	103	65-135

Surrogate	%REC	Limits
Hexacosane	105	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX315[5.0]	Batch#:	136610
MSS Lab ID:	202203-001	Sampled:	03/26/08
Matrix:	Soil	Received:	03/26/08
Units:	mg/Kg	Prepared:	04/01/08
Basis:	dry	Analyzed:	04/02/08
Diln Fac:	1.000		

Type: MS
Lab ID: QC435538
Moisture: 16%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	9.823	59.07	60.13	85	65-135

Surrogate	%REC	Limits
Hexacosane	94	65-135

Type: MSD
Lab ID: QC435539
Moisture: 16%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	59.33	72.16	105	65-135	18	35

Surrogate	%REC	Limits
Hexacosane	101	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202203 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 868123437002
Units : mg/L

Name : Motor_Oil_085
Date : 26-MAR-2008 02:42
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	085a021	868123437021	MO_50	26-MAR-2008 02:42	S8270
L2	085a022	868123437022	MO_250	26-MAR-2008 03:10	S8271
L3	085a023	868123437023	MO_500	26-MAR-2008 03:38	S8272
L4	085a024	868123437024	MO_1000	26-MAR-2008 04:06	S8273
L5	085a025	868123437025	MO_5000	26-MAR-2008 04:34	S8269
L6	085a026	868123437026	MO_7500	26-MAR-2008 05:02	S8274

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	18862	23887	22935	23903	24214	23503	AVRG		4.37E-5		22884	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-18	250.0	4	500.0	0	1000	4	5000	6	7500	3

Analyst: ATL Date: 03/26/08 Reviewer: LH Date: 03/28/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202203 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 868123437003
Units : mg/L

Name : DSL_085
Date : 26-MAR-2008 13:48
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	085a033	868123437033	DSL_10	26-MAR-2008 13:48	S7961
L2	085a034	868123437034	DSL_100	26-MAR-2008 14:16	S7962
L3	085a035	868123437035	DSL_500	26-MAR-2008 14:45	S7963
L4	085a036	868123437036	DSL_1000	26-MAR-2008 15:14	S7964
L5	085a037	868123437037	DSL_5000	26-MAR-2008 15:43	S7960
L6	085a038	868123437038	DSL_7500	26-MAR-2008 16:12	S7965

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	23557	32747	33365	34732	34674	35172	AVRG		3.09E-5		32374	14	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C12-C24	10.00	-27	100.0	1	500.0	3	1000	7	5000	7	7500	9

Analyst: CP Date: 03/27/08 Reviewer: LH Date: 03/28/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202203 GCSV Soil
EPA 8015B

Inst : GC26A
Name : DSL_085
Calnum : 868123437003
Cal Date : 26-MAR-2008

ICV 868123437040 (085a040 26-MAR-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	32374	33676	500.0	520.1	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202203 GCSV Soil: EPA 8015B

Inst : GC26A
Calnum : 868127408001
Units : mg/L

Name : Hex_088
Date : 28-MAR-2008 16:42
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	088a011	868127408011	HEX_5	28-MAR-2008 16:42	S8093
L2	088a012	868127408012	HEX_10	28-MAR-2008 17:11	S8094
L3	088a013	868127408013	HEX_25	28-MAR-2008 17:40	S8095
L4	088a014	868127408014	HEX_50	28-MAR-2008 18:09	S8096
L5	088a015	868127408015	HEX_100	28-MAR-2008 18:37	S8097
L6	088a016	868127408016	HEX_200	28-MAR-2008 19:06	S8098

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	30914	32865	35419	37029	31352	35269	AVRG		2.96E-5		33808	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-9	10.00	-3	25.00	5	50.00	10	100.0	-7	200.0	4

Analyst: ATL Date: 04/01/08 Reviewer: LH Date: 04/02/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202203 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868133361046 File : 092a046 Time : 02-APR-2008 13:21
Standards: S8079

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	868123437003	26-MAR-2008	32374	33206	1000	1026	mg/L	3	15	
Hexacosane	868127408001	28-MAR-2008	33808	35292	50.00	52.20	mg/L	4	15	

Analyst: ATL Date: 04/02/08 Reviewer: JDG Date: 04/03/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202203 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868133361047 File : 092a047 Time : 02-APR-2008 13:50
Standards: S8072

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	868123437002	26-MAR-2008	22884	19794	500.0	432.5	mg/L	-14	15	
Hexacosane	868127408001	28-MAR-2008	33808	36551	50.00	54.06	mg/L	8	15	

Analyst: JDG Date: 04/03/08 Reviewer: LH Date: 04/03/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202203 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868133361061 File : 092a061 Time : 02-APR-2008 20:35
Standards: S8681

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C12-C24	868123437003	26-MAR-2008	32374	35887	500.0	554.2	mg/L	11	15	
Hexacosane	868127408001	28-MAR-2008	33808	37642	50.00	55.67	mg/L	11	15	

Analyst: JDG Date: 04/03/08 Reviewer: LH Date: 04/03/08

868133361061

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202203 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868133361064 File : 092a064 Time : 02-APR-2008 22:00
Standards: S8072

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	868123437002	26-MAR-2008	22884	20060	500.0	438.3	mg/L	-12	15	
Hexacosane	868127408001	28-MAR-2008	33808	35701	50.00	52.80	mg/L	6	15	

Analyst: JDG Date: 04/03/08 Reviewer: LH Date: 04/03/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868123437

Instrument : GC26A
Method : EPA 8015B

Begun : 03/25/08 17:17
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	085a001	X	IB			03/25/08 17:17	1.0	
002	085a002	X	IB			03/25/08 17:45	1.0	
003	085a003	IB	CALIB			03/25/08 18:13	1.0	
004	085a004	ICAL	HEX_5			03/25/08 18:42	1.0	1
005	085a005	ICAL	HEX_10			03/25/08 19:10	1.0	2
006	085a006	ICAL	HEX_25			03/25/08 19:38	1.0	3
007	085a007	ICAL	HEX_50			03/25/08 20:07	1.0	4
008	085a008	ICAL	HEX_100			03/25/08 20:35	1.0	5
009	085a009	ICAL	HEX_200			03/25/08 21:03	1.0	6
010	085a010	IB	CALIB			03/25/08 21:32	1.0	
011	085a011	ICAL	DSL_10			03/25/08 22:00	1.0	7
012	085a012	ICAL	DSL_100			03/25/08 22:28	1.0	8
013	085a013	ICAL	DSL_500			03/25/08 22:56	1.0	9
014	085a014	ICAL	DSL_1000			03/25/08 23:25	1.0	10
015	085a015	ICAL	DSL_5000			03/25/08 23:53	1.0	11
016	085a016	ICAL	DSL_7500			03/26/08 00:21	1.0	12
017	085a017	IB	CALIB			03/26/08 00:49	1.0	
018	085a018	ICV	DSL_500			03/26/08 01:17	1.0	13
019	085a019	ICV	DSL_500			03/26/08 01:45	1.0	13
020	085a020	IB	CALIB			03/26/08 02:13	1.0	
021	085a021	ICAL	MO_50			03/26/08 02:42	1.0	14
022	085a022	ICAL	MO_250			03/26/08 03:10	1.0	15
023	085a023	ICAL	MO_500			03/26/08 03:38	1.0	16
024	085a024	ICAL	MO_1000			03/26/08 04:06	1.0	17
025	085a025	ICAL	MO_5000			03/26/08 04:34	1.0	18
026	085a026	ICAL	MO_7500			03/26/08 05:02	1.0	19
027	085a027	IB	CALIB			03/26/08 05:30	1.0	
028	085a028	IB	CALIB			03/26/08 09:43	1.0	
029	085a029	IB	CALIB			03/26/08 10:11	1.0	
030	085a030	CMARKER	C8-C50			03/26/08 10:39	1.0	20
031	085a031	IB	CALIB			03/26/08 12:51	1.0	
032	085a032	IB	CALIB			03/26/08 13:19	1.0	
033	085a033	ICAL	DSL_10			03/26/08 13:48	1.0	7
034	085a034	ICAL	DSL_100			03/26/08 14:16	1.0	8
035	085a035	ICAL	DSL_500			03/26/08 14:45	1.0	9
036	085a036	ICAL	DSL_1000			03/26/08 15:14	1.0	10
037	085a037	ICAL	DSL_5000			03/26/08 15:43	1.0	11
038	085a038	ICAL	DSL_7500			03/26/08 16:12	1.0	12
039	085a039	IB	CALIB			03/26/08 16:40	1.0	
040	085a040	ICV	DSL_500			03/26/08 17:08	1.0	13
041	085a041	ICV	DSL_500			03/26/08 17:37	1.0	13
042	085a042	IB	CALIB			03/26/08 18:05	1.0	

Analyst: ATL Date: 03/26/08 Reviewer: LH Date: 03/27/08

Standards used: 1=S8093 2=S8094 3=S8095 4=S8096 5=S8097 6=S8098 7=S7961 8=S7962 9=S7963 10=S7964 11=S7960 12=S7965 13=S8069 14=S8270 15=S8271 16=S8272 17=S8273 18=S8269 19=S8274 20=S8950

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868127408

Instrument : GC26A
Method : EPA 8015B
Begun : 03/28/08 11:28
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	088a001	X	PRIMER			03/28/08 11:28	1.0	
002	088a002	X	IB			03/28/08 11:56	1.0	
003	088a003	X	IB			03/28/08 12:25	1.0	
004	088a004	X	CMARKER			03/28/08 12:54	1.0	1
005	088a005	CCV	DSL_500			03/28/08 13:23	1.0	2
006	088a006	CCV	MO_500			03/28/08 13:52	1.0	3
007	088a007	CCV	DSL_500			03/28/08 14:20	1.0	2
008	088a008	CCV	MO_500			03/28/08 14:49	1.0	3
009	088a009	IB	CALIB			03/28/08 15:45	1.0	
010	088a010	IB	CALIB			03/28/08 16:14	1.0	
011	088a011	ICAL	HEX_5			03/28/08 16:42	1.0	4
012	088a012	ICAL	HEX_10			03/28/08 17:11	1.0	5
013	088a013	ICAL	HEX_25			03/28/08 17:40	1.0	6
014	088a014	ICAL	HEX_50			03/28/08 18:09	1.0	7
015	088a015	ICAL	HEX_100			03/28/08 18:37	1.0	8
016	088a016	ICAL	HEX_200			03/28/08 19:06	1.0	9
017	088a017	IB	CALIB			03/28/08 19:35	1.0	
018	088a018	X	IB			03/28/08 20:03	1.0	
019	088a019	X	CMARKER			03/28/08 20:32	1.0	1
020	088a020	CCV	DSL_250			03/28/08 21:01	1.0	10
021	088a021	CCV	MO_500			03/28/08 21:29	1.0	3
022	088a022	X	CCV			03/28/08 21:58	1.0	10
023	088a023	X	CCV			03/28/08 22:26	1.0	3

Analyst: ATL Date: 04/01/08 Reviewer: LH Date: 04/02/08

Standards used: 1=S8950 2=S8078 3=S8072 4=S8093 5=S8094 6=S8095 7=S8096 8=S8097 9=S8098 10=S8077

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868133361

Instrument : GC26A
Method : EPA 8015B

Begun : 04/01/08 14:41
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	092a001	X	IB				04/01/08 14:41	1.0	
002	092a002	X	CMARKER				04/01/08 15:11	1.0	1
003	092a003	CCV	DSL_500				04/01/08 15:40	1.0	2
004	092a004	CCV	MO_500				04/01/08 16:09	1.0	3
005	092a005	BLANK	QC435152	S	Water	136521	04/01/08 17:52	1.0	
006	092a006	BLANK	QC435152		Water	136521	04/01/08 18:21	1.0	
007	092a007	BS	QC435153	S	Water	136521	04/01/08 18:50	1.0	
008	092a008	BSD	QC435154	S	Water	136521	04/01/08 19:19	1.0	
009	092a009	SAMPLE	202174-003		Water	136521	04/01/08 19:48	1.0	
010	092a010	SAMPLE	202174-005		Water	136521	04/01/08 20:17	1.0	
011	092a011	SAMPLE	202174-006		Water	136521	04/01/08 20:45	1.0	
012	092a012	SAMPLE	202174-010		Water	136521	04/01/08 21:14	1.0	
013	092a013	SAMPLE	202174-016		Water	136521	04/01/08 21:42	25.0	
014	092a014	X	IB				04/01/08 22:11	1.0	
015	092a015	SAMPLE	202174-007		Water	136521	04/01/08 22:39	1.0	
016	092a016	CCV	DSL_250				04/01/08 23:08	1.0	4
017	092a017	CCV	MO_500				04/01/08 23:36	1.0	3
018	092a018	X	CCV				04/02/08 00:05	1.0	4
019	092a019	X	CCV				04/02/08 00:33	1.0	3
020	092a020	SAMPLE	202177-001	S	Water	136521	04/02/08 01:01	1.0	
021	092a021	SAMPLE	202177-002	S	Water	136521	04/02/08 01:30	1.0	
022	092a022	SAMPLE	202174-011		Water	136521	04/02/08 01:58	1.0	
023	092a023	SAMPLE	202174-012		Water	136521	04/02/08 02:27	1.0	
024	092a024	SAMPLE	202174-015		Water	136521	04/02/08 02:55	2.0	
025	092a025	SAMPLE	202174-001		Water	136521	04/02/08 03:24	1.0	
026	092a026	SAMPLE	202174-018		Water	136521	04/02/08 03:52	2.0	
027	092a027	SAMPLE	202174-017		Water	136521	04/02/08 04:20	100.0	
028	092a028	X	IB				04/02/08 04:49	1.0	
029	092a029	SAMPLE	202174-014		Water	136521	04/02/08 05:17	1.0	
030	092a030	SAMPLE	202174-008		Water	136521	04/02/08 05:45	1.0	
031	092a031	X	CMARKER				04/02/08 06:13	1.0	1
032	092a032	CCV	DSL_500				04/02/08 06:41	1.0	2
033	092a033	CCV	MO_500				04/02/08 07:10	1.0	3
034	092a034	X	CCV				04/02/08 07:38	1.0	2
035	092a035	X	CCV				04/02/08 08:06	1.0	3
036	092a036	SAMPLE	202097-006	S	Soil	136557	04/02/08 08:34	1.0	
037	092a037	SAMPLE	202193-013	S	Soil	136557	04/02/08 09:03	1.0	
038	092a038	SAMPLE	202192-007	S	Soil	136557	04/02/08 09:31	3.0	
039	092a039	X	IB				04/02/08 10:00	1.0	
040	092a040	SAMPLE	202097-007	S	Soil	136557	04/02/08 10:28	1.0	
041	092a041	SAMPLE	202097-008	S	Soil	136557	04/02/08 10:57	1.0	
042	092a042	SAMPLE	202133-001	S	Soil	136557	04/02/08 11:26	1.0	
043	092a043	MSS	202133-002	S	Soil	136557	04/02/08 11:55	1.0	
044	092a044	MS	QC435299	S	Soil	136557	04/02/08 12:23	1.0	
045	092a045	MSD	QC435300	S	Soil	136557	04/02/08 12:52	1.0	
046	092a046	CCV	DSL_1000				04/02/08 13:21	1.0	5
047	092a047	CCV	MO_500				04/02/08 13:50	1.0	3
048	092a048	SAMPLE	202074-001		Soil	136557	04/02/08 14:20	20.0	
049	092a049	SAMPLE	202200-001		Soil	136557	04/02/08 14:49	25.0	
050	092a050	X	IB				04/02/08 15:18	1.0	
051	092a051	BLANK	QC435297		Soil	136557	04/02/08 15:47	1.0	
052	092a052	SAMPLE	202097-005	S	Soil	136557	04/02/08 16:16	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868133361

Instrument : GC26A
Method : EPA 8015B

Begun : 04/01/08 14:41
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	092a053	SAMPLE	202097-003	S	Soil	136557	04/02/08 16:45	1.0	
054	092a054	MSS	202203-001	S	Soil	136610	04/02/08 17:14	1.0	
055	092a055	MS	QC435538	S	Soil	136610	04/02/08 17:42	1.0	
056	092a056	MSD	QC435539	S	Soil	136610	04/02/08 18:11	1.0	
057	092a057	X	IB				04/02/08 18:40	1.0	
058	092a058	BLANK	QC435536	S	Soil	136610	04/02/08 19:09	1.0	
059	092a059	LCS	QC435537	S	Soil	136610	04/02/08 19:37	1.0	
060	092a060	X	CMARKER				04/02/08 20:06	1.0	1
061	092a061	CCV	DSL_500				04/02/08 20:35	1.0	2
062	092a062	X	CCV				04/02/08 21:03	1.0	3
063	092a063	X	CCV				04/02/08 21:31	1.0	2
064	092a064	CCV	MO_500				04/02/08 22:00	1.0	3

Standards used: 1=S8950 2=S8681 3=S8072 4=S8077 5=S8079

SAMPLE PREPARATION SUMMARY

Batch # : 136610
Started By : ECB
Method : SHAKER TABLE
Spike #1 ID : S8587
Prep Date : 01-APR-2008
SOP Version : TEH1_rv9
Spike #2 ID : S8826
Analysis : TEH
Finished By : ECB
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
202201-001		Miscell.	25.02	10	1	0.3997		.5				TEHM	See comment 1 below
202202-001		Miscell.	20.45	20	1	0.978		.4				TEHM	See comment 1 below
202203-001		Soil	50.33	5	1	0.09934		1			3630C	TEHM	mss
202220-001		Soil	50.47	5	1	0.09907		1				TEH	
202220-002		Soil	50.37	5	1	0.09927		1				TEH	
202220-003		Soil	50.08	5	1	0.09984		1				TEH	
202220-004		Soil	50.44	5	1	0.09913		1				TEH	
202220-005		Soil	50.05	5	1	0.0999		1				TEH	
202220-006		Soil	50.44	5	1	0.09913		1				TEH	
202249-001		Soil	50.28	5	1	0.09944		1				TEH	
202249-002		Soil	50.06	5	1	0.09988		1				TEH	
202249-003		Soil	50.47	5	1	0.09907		1				TEH	
202249-004		Soil	50.22	5	1	0.09956		1				TEH	
202249-006		Soil	50.38	5	1	0.09925		1				TEH	
202249-008		Soil	50.25	5	1	0.0995		1				TEH	
202249-009		Soil	50.19	5	1	0.09962		1				TEH	
202249-010		Soil	50.41	5	1	0.09919		1				TEH	
202249-011		Soil	50.26	5	1	0.09948		1				TEH	
QC435536	BLANK	Soil	50.25	5	1	0.0995		1			3630C		
QC435537	LCS	Soil	50.16	5	1	0.09968		1	1		3630C		
QC435538	MS	Soil	50.38	5	1	0.09925		1	1		3630C		
QC435539	MSD	Soil	50.16	5	1	0.09968		1	1		3630C		

Comment 1: Less sample used--samples voluminous

LH 04/04/08 : 202202-001: Soil Aliquot Book, BK2627, p187 shows that the weight is 20.45g, not 20.42g as appears in LIMS and on handwritten prep log page.

LH 04/04/08 : 202202-001 weight issue was investigated and resolved by JDG.

Analyst: JDG Date: 04/04/08 Reviewer: LH Date: 04/04/08

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2690 Page 5

LIMS Batch No: 136610
LIMS Analysis TEH/M
Date Extracted: 4/1/08

Extraction Method:
☒ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ _____

Sample #	container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
202201-001	A	25.02	10.0		* DOT 4/1/08 Voluminous samples, lower weight used 0.5 SUBR
202202-001	↓	20.42, 20.45	20.0		** 0.4 SUBR ↓
202203-001	D	50.33	5.0	X	MSS
202220-001		50.47			
-002		50.37			
-003		50.08			
-004		50.44			
-005		50.05			
-006	↓	50.44			
202249-001	D	50.28			
-002		50.06			
-003		50.47			
-004		50.22			
-006		50.38			
-008		50.25			
-009		50.19			
-010		50.41			
-011	↓	50.26			
MB QC435536		50.25		X	
LCS 7		50.16			
MS 8		50.38			
MSD ↓ 9		50.16	↓	↓	
					DOT 4/2/08

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM 47281748	EAB 4/1/08
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM 47281804	
1.0 *0.5 **0.4 mL of Surrogate solution was added to all samples	S8587A / S8587C	
1.0 mL of Matrix Spiking solution was added to all spikes	S8826A	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM48064	
Acetone	EM47190	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	1340	
taken off shaker table at:	1550	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM47281604	
Concentrated to final volume at temperature (degrees C)	100	
Relinquished to TEH Department	✓	↓

4/1/08
Extraction Chemist / Date

Continued from page ____
Continued on page ____

4/2/08
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: JJB
Cleanup Date: 4/11/08 (corr 4/14/08)

Benchbook # **BK 2679**
Page 80

	Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
	202283-001	136551	1.0	1.0	
	2				
	3				MSS
	4				
5	5				
	202241-001				
	202244-001				MSS
	202265-001				
	2				
10	4				
	5				
	202273-001				
	2				
	3				
15	4				
	5				
	6				
	MB QC435272				
	LCS 3				
20	MS 4				202223-001 ↓
	MSD 5				
	MS 6				202244-001 ↓
	MSD 7				
	202203-001	136616	1.0	1.0	MSS
25	MB QC435536				
	LCS 7				
	MS 8				202203-001 ↓
	MSD 9				
30					JJB 4/11/08

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ___ g columns	MA	JJB 4/11/08
☑ Extracts were cleaned up using 1.0 g cartridges	SP9680	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM48064	
Concentrated to volumes as noted above	✓	

4/11/08
Extraction Chemist / Date

Continued from page ___
Continued on page 1

4/14/08
Reviewed by / Date

184 Project SOIL ALIQUOT BK2627

Continued from Page

SAMPLE ID	WEIGHT (G)	ANALYSIS	BATCH #	COMMENTS
			SFH 3/31/07	
202074-001A	50.12	TEH1/M		
202097-003E	50.24			
5	50.15			
6	50.18			
7	50.18			
8	50.20			
202133-001E	50.07			
2 D/E	50.02			MS5
202192-007	50.02			comp 1-4 @ 30g each
202193-013	50.37			comp 1-4 @ 25g each
202200-001A	50.13			
202221-001A	50.25			
2	50.33			
3	50.23			
4	50.06			
5	50.24			
6	50.07			
7	50.07			
8	50.31			
MB	50.13			EM47281748
LCS	50.15			↓
MS	50.10			202133-002D/E
MSD	50.30			↓
			SFH 3/31/08	
202203-001D	50.33	TEHM	136610	MS5
MB	50.25			EM47281748
LCS	50.16			↓
MS	50.38			202203-001D
MSD	50.16			↓
			RFW for JAW	3/31/08,
			signed on	4/1/08 RFW
			RFW	4/1/08

Continued on Page

Read and Understood By

Signed Date Signed Date

186 Project Sal Aliquot

Continued from Page

BK 3627 4/3/08

SAMPLE ID			WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
202285	001	G	50.40 .05	TEHM		
	002	↓	50.15 .02 SAW 3/31/08			
	003	M	50.17 JAW 3/31/08			MSS
	004	G	50.29 JW 3/31/08			
	005		50.11			
	006		50.17			
	007		50.20			
	008		50.11			
	009	↓	50.11			
	010	M	50.46			MSS
	011	G	50.32			
	012		50.25			
	013		50.30			
	014		50.24			
	015		50.39			
	016		50.49			
	017		50.47			
	018	↓	50.48			
MB			50.40			EMA128 1748
LCS			50.13			↓
MS			50.13			202285-003M
MSD			50.15			↓
MS			50.19			202285-010M
MSD			50.34			↓
				JAW 3/31/08		
202220	001	P	50.47	TEH	136610	
	002		50.37			
	003		50.08			
	004		50.44			
	005		50.05			
	006	↓	50.44			
				JAW 3/31/08		
202293	000	C	50.42	TEH		
					JAW 4/1/08	

Continued on Page

Read and Understood By

Signed Date

SAMPLE ID			WEIGHT	ANALYSIS	BATCH #	COMMENTS
202249-	001	D	50.28	TEH	136610	
	002		50.06			
	003		50.47			
	004		50.22			
	006		50.36			
	008		50.25			
	009		50.19			
	010		50.41			
	011		50.26			
				JAW 3/31/08		
202288-	001	A	30.39	PCB		
	002		30.25			
	003		30.23			
	004		30.18			
	005	A/B	30.05			MSS
	006	A	30.25			
	007		30.26			
	008		30.35			
	009		30.32			
MB			30.29	EMA 72811 AB EMA 1B		
LCS			30.25			JAW 3/31/08
MS			30.10			202288-005 A/B
MSD			30.09			
				JAW 3/31/08		
202231-001		A	30.00	PCB		
	002		30.05			
	004		30.19			KML 4/
202201-001A			25.02	TEHM	136610	
~~202201-002~~		USED	15.21	~~DATA NOT USED~~		EMB 4/1/08
						EMB 4/1/08
202202-001A			20.45	TEHM	136610	
						EMB 4/1/08

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd.

Volatile Organics
Soil

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX315[5.0]	Diln Fac:	0.8333
Lab ID:	202203-001	Batch#:	136446
Matrix:	Soil	Sampled:	03/26/08
Units:	ug/Kg	Received:	03/26/08
Basis:	dry	Analyzed:	03/27/08

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	9.9	0.54
Chloromethane	ND	9.9	0.63
Vinyl Chloride	ND	9.9	0.55
Bromomethane	ND	9.9	0.44
Chloroethane	ND	9.9	0.45
Trichlorofluoromethane	ND	5.0	0.51
Acetone	70	20	0.92
Freon 113	ND	5.0	0.61
1,1-Dichloroethene	ND	5.0	0.43
Methylene Chloride	2.6 J	20	0.40
Carbon Disulfide	ND	5.0	0.50
MTBE	ND	5.0	0.45
trans-1,2-Dichloroethene	ND	5.0	0.41
Vinyl Acetate	ND	50	0.36
1,1-Dichloroethane	ND	5.0	0.37
2-Butanone	13	9.9	0.49
cis-1,2-Dichloroethene	ND	5.0	0.40
2,2-Dichloropropane	ND	5.0	0.37
Chloroform	ND	5.0	0.36
Bromochloromethane	ND	5.0	0.24
1,1,1-Trichloroethane	ND	5.0	0.34
1,1-Dichloropropene	ND	5.0	0.36
Carbon Tetrachloride	ND	5.0	0.40
1,2-Dichloroethane	ND	5.0	0.37
Benzene	ND	5.0	0.30
Trichloroethene	ND	5.0	0.43
1,2-Dichloropropane	ND	5.0	0.39
Bromodichloromethane	ND	5.0	0.40
Dibromomethane	ND	5.0	0.35
4-Methyl-2-Pentanone	ND	9.9	0.25
cis-1,3-Dichloropropene	ND	5.0	0.31
Toluene	ND	5.0	0.41
trans-1,3-Dichloropropene	ND	5.0	0.26
1,1,2-Trichloroethane	ND	5.0	0.40
2-Hexanone	ND	9.9	0.42
1,3-Dichloropropane	ND	5.0	0.28
Tetrachloroethene	ND	5.0	0.50
Dibromochloromethane	ND	5.0	0.31
1,2-Dibromoethane	ND	5.0	0.23
Chlorobenzene	ND	5.0	0.28
1,1,1,2-Tetrachloroethane	ND	5.0	0.35
Ethylbenzene	ND	5.0	0.40
m,p-Xylenes	ND	5.0	0.92
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.46
Bromoform	ND	5.0	0.20
Isopropylbenzene	ND	5.0	0.60
1,1,2,2-Tetrachloroethane	ND	5.0	0.27
1,2,3-Trichloropropane	ND	5.0	0.43
Propylbenzene	ND	5.0	0.64

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX315[5.0]	Diln Fac:	0.8333
Lab ID:	202203-001	Batch#:	136446
Matrix:	Soil	Sampled:	03/26/08
Units:	ug/Kg	Received:	03/26/08
Basis:	dry	Analyzed:	03/27/08

Analyte	Result	RL	MDL
Bromobenzene	ND	5.0	0.41
1,3,5-Trimethylbenzene	ND	5.0	0.66
2-Chlorotoluene	ND	5.0	0.56
4-Chlorotoluene	ND	5.0	0.32
tert-Butylbenzene	ND	5.0	0.78
1,2,4-Trimethylbenzene	ND	5.0	0.52
sec-Butylbenzene	ND	5.0	0.89
para-Isopropyl Toluene	ND	5.0	0.77
1,3-Dichlorobenzene	ND	5.0	0.55
1,4-Dichlorobenzene	ND	5.0	0.45
n-Butylbenzene	ND	5.0	0.80
1,2-Dichlorobenzene	ND	5.0	0.37
1,2-Dibromo-3-Chloropropane	ND	5.0	0.60
1,2,4-Trichlorobenzene	ND	5.0	0.61
Hexachlorobutadiene	ND	5.0	0.88
Naphthalene	ND	5.0	0.47
1,2,3-Trichlorobenzene	ND	5.0	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	104	78-126
1,2-Dichloroethane-d4	96	76-137
Toluene-d8	99	80-120
Bromofluorobenzene	113	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC434810	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136446
Units:	ug/Kg	Analyzed:	03/27/08

Analyte	Result	RL	MDL
Freon 12	ND	10	0.54
Chloromethane	ND	10	0.63
Vinyl Chloride	ND	10	0.56
Bromomethane	ND	10	0.44
Chloroethane	ND	10	0.46
Trichlorofluoromethane	ND	5.0	0.51
Acetone	ND	20	0.92
Freon 113	ND	5.0	0.61
1,1-Dichloroethene	ND	5.0	0.44
Methylene Chloride	1.1 J	20	0.41
Carbon Disulfide	ND	5.0	0.51
MTBE	ND	5.0	0.45
trans-1,2-Dichloroethene	ND	5.0	0.41
Vinyl Acetate	ND	50	0.36
1,1-Dichloroethane	ND	5.0	0.38
2-Butanone	ND	10	0.50
cis-1,2-Dichloroethene	ND	5.0	0.40
2,2-Dichloropropane	ND	5.0	0.38
Chloroform	ND	5.0	0.37
Bromochloromethane	ND	5.0	0.24
1,1,1-Trichloroethane	ND	5.0	0.34
1,1-Dichloropropene	ND	5.0	0.36
Carbon Tetrachloride	ND	5.0	0.41
1,2-Dichloroethane	ND	5.0	0.37
Benzene	ND	5.0	0.30
Trichloroethene	ND	5.0	0.43
1,2-Dichloropropane	ND	5.0	0.40
Bromodichloromethane	ND	5.0	0.40
Dibromomethane	ND	5.0	0.35
4-Methyl-2-Pentanone	ND	10	0.25
cis-1,3-Dichloropropene	ND	5.0	0.32
Toluene	ND	5.0	0.41
trans-1,3-Dichloropropene	ND	5.0	0.26
1,1,2-Trichloroethane	ND	5.0	0.40
2-Hexanone	ND	10	0.43
1,3-Dichloropropane	ND	5.0	0.29
Tetrachloroethene	ND	5.0	0.50
Dibromochloromethane	ND	5.0	0.31
1,2-Dibromoethane	ND	5.0	0.23
Chlorobenzene	ND	5.0	0.28
1,1,1,2-Tetrachloroethane	ND	5.0	0.36
Ethylbenzene	ND	5.0	0.40
m,p-Xylenes	ND	5.0	0.93
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.47
Bromoform	ND	5.0	0.20
Isopropylbenzene	ND	5.0	0.60
1,1,2,2-Tetrachloroethane	ND	5.0	0.27
1,2,3-Trichloropropane	ND	5.0	0.44
Propylbenzene	ND	5.0	0.65
Bromobenzene	ND	5.0	0.41
1,3,5-Trimethylbenzene	ND	5.0	0.67

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC434810	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136446
Units:	ug/Kg	Analyzed:	03/27/08

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.57
4-Chlorotoluene	ND	5.0	0.33
tert-Butylbenzene	ND	5.0	0.79
1,2,4-Trimethylbenzene	ND	5.0	0.53
sec-Butylbenzene	ND	5.0	0.90
para-Isopropyl Toluene	ND	5.0	0.78
1,3-Dichlorobenzene	ND	5.0	0.55
1,4-Dichlorobenzene	ND	5.0	0.45
n-Butylbenzene	ND	5.0	0.81
1,2-Dichlorobenzene	ND	5.0	0.37
1,2-Dibromo-3-Chloropropane	ND	5.0	0.61
1,2,4-Trichlorobenzene	ND	5.0	0.62
Hexachlorobutadiene	ND	5.0	0.89
Naphthalene	ND	5.0	0.48
1,2,3-Trichlorobenzene	ND	5.0	0.57

Surrogate	%REC	Limits
Dibromofluoromethane	103	78-126
1,2-Dichloroethane-d4	98	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	96	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	136446
Basis:	as received	Analyzed:	03/27/08

Type: BS Lab ID: QC434811

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.03	100	71-133
Benzene	25.00	26.02	104	79-123
Trichloroethene	25.00	24.79	99	79-124
Toluene	25.00	27.17	109	80-123
Chlorobenzene	25.00	24.74	99	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-126
1,2-Dichloroethane-d4	101	76-137
Toluene-d8	100	80-120
Bromofluorobenzene	94	80-121

Type: BSD Lab ID: QC434812

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.52	102	71-133	2	20
Benzene	25.00	26.01	104	79-123	0	20
Trichloroethene	25.00	23.44	94	79-124	6	20
Toluene	25.00	26.46	106	80-123	3	20
Chlorobenzene	25.00	25.51	102	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	98	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	91	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX315[5.0]	Batch#:	136446
MSS Lab ID:	202203-001	Sampled:	03/26/08
Matrix:	Soil	Received:	03/26/08
Units:	ug/Kg	Analyzed:	03/27/08
Basis:	dry		

Type: MS Moisture: 16%
Lab ID: QC434966 Diln Fac: 0.8621

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4338	51.31	60.29	117	55-139
Benzene	<0.3024	51.31	54.57	106	55-120
Trichloroethene	<0.4270	51.31	52.04	101	47-140
Toluene	<0.4098	51.31	54.90	107	52-121
Chlorobenzene	<0.2770	51.31	49.98	97	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	78-126
1,2-Dichloroethane-d4	99	76-137
Toluene-d8	102	80-120
Bromofluorobenzene	92	80-121

Type: MSD Moisture: 16%
Lab ID: QC434967 Diln Fac: 0.8197

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.79	64.33	132	55-139	12	29
Benzene	48.79	54.56	112	55-120	5	26
Trichloroethene	48.79	51.32	105	47-140	4	28
Toluene	48.79	53.70	110	52-121	3	29
Chlorobenzene	48.79	50.53	104	47-120	6	29

Surrogate	%REC	Limits
Dibromofluoromethane	115	78-126
1,2-Dichloroethane-d4	102	76-137
Toluene-d8	98	80-120
Bromofluorobenzene	103	80-121

RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 202203 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 888085442012 File : lbs12 Time : 28-FEB-2008 12:45

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	4490	19.31	
75	30% - 60% of mass 95	11656	50.13	
95		23252		
96	5% - 9% of mass 95	1740	7.48	
173	< 2% of mass 174	194	1.06	
174	> 50% and < 100% of mass 95	18270	78.57	
175	5% - 9% of mass 174	1420	7.77	
176	> 95% and < 101% of mass 174	17465	95.59	
177	5% - 9% of mass 176	1298	7.43	

Analyst: BO Date: 02/29/08 Reviewer: LW Date: 03/03/08

888085442012

CURTIS & TOMPKINS BFB TUNE FOR 202203 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 888114360005 File : lcj05 Time : 19-MAR-2008 12:19

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	8674	16.45	
75	30% - 60% of mass 95	23138	43.89	
95		52714		
96	5% - 9% of mass 95	3876	7.35	
173	< 2% of mass 174	265	0.60	
174	> 50% and < 100% of mass 95	44224	83.89	
175	5% - 9% of mass 174	3007	6.80	
176	> 95% and < 101% of mass 174	42138	95.28	
177	5% - 9% of mass 176	2821	6.69	

Analyst: BO Date: 03/19/08 Reviewer: LW Date: 03/19/08

888114360005

CURTIS & TOMPKINS BFB TUNE FOR 202203 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : BFB IDF : 1.0
Seqnum : 888125800002 File : lcr02 Time : 27-MAR-2008 09:07

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7442	15.54	
75	30% - 60% of mass 95	19912	41.59	
95		47882		
96	5% - 9% of mass 95	3404	7.11	
173	< 2% of mass 174	248	0.59	
174	> 50% and < 100% of mass 95	41920	87.55	
175	5% - 9% of mass 174	3089	7.37	
176	> 95% and < 101% of mass 174	40584	96.81	
177	5% - 9% of mass 176	2807	6.92	

Analyst: MJD Date: 03/27/08 Reviewer: ACM Date: 03/27/08

888125800002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202203 MSVOA Soil: EPA 8260B

Inst : MSVOA12
Calnum : 888085442001
Units : ug/L

Name : 8260GX12
Date : 28-FEB-2008 15:29
X Axis : R

Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	lbs16	888085442016	2.5PPB	28-FEB-2008 15:29	S8368 (200000X), S8294 (200000X), S8073 (5000X)
L2	lbs17	888085442017	5PPB	28-FEB-2008 16:02	S8368 (100000X), S8294 (100000X), S8073 (5000X)
L3	lbs18	888085442018	10PPB	28-FEB-2008 16:34	S8368 (50000X), S8294 (50000X), S8073 (5000X)
L4	lbs19	888085442019	20PPB	28-FEB-2008 17:06	S8368 (25000X), S8294 (25000X), S8073 (5000X)
L5	lbs20	888085442020	50PPB	28-FEB-2008 17:38	S8368 (10000X), S8294 (10000X), S8073 (5000X)
L6	lbs21	888085442021	60PPB	28-FEB-2008 18:10	S8368 (8333X), S8294 (8333X), S8073 (5000X)
L7	lbs22	888085442022	75PPB	28-FEB-2008 18:43	S8368 (6667X), S8294 (6667X), S8073 (5000X)
L8	lbs23	888085442023	100PPB	28-FEB-2008 19:15	S8368 (5000X), S8294 (5000X), S8073 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	1.3762	0.7574	1.2431	1.1168	1.3754	1.2451	1.2220		LINR	0.82189	0.78215		1.1908	0.993	15	0.05	0.99	
Chloromethane		1.4944	1.6320	1.4511	1.6348	1.5098	1.4272	1.4224	AVRG		0.66215		1.5102	6	15	0.10	0.99	
Vinyl Chloride	1.6243	1.1107	1.4454	1.2788	1.5564	1.4338	1.3686	1.3348	AVRG		0.71732		1.3941	12	15	0.05	0.99	
Bromomethane		0.7606	0.7576	0.6901	0.7970	0.7703	0.6977	0.7187	AVRG		1.34821		0.7417	5	15	0.05	0.99	
Chloroethane		0.7675	0.8392	0.7535	0.8773	0.8137	0.7656	0.7589	AVRG		1.25545		0.7965	6	15	0.05	0.99	
Trichlorofluoromethane	1.4154	0.7776	1.1987	1.1257	1.3880	1.2406	1.2687	1.2467	LINR	0.65468	0.78223		1.2077	0.996	15	0.05	0.99	
Acetone				0.2416	0.2563	0.2337	0.1914	0.1992	AVRG		4.45531		0.2245	12	15	0.05	0.99	
Freon 113	0.6344	0.2949	0.6003	0.5158	0.6152	0.6984			QUAD	0.03600	2.05590	-0.01472	0.5598	0.997	15	0.05	0.99	
1,1-Dichloroethene		0.4294	0.5508	0.5186	0.5821	0.6201	0.5677	0.5680	AVRG		1.82445		0.5481	11	15	0.05	0.99	
Methylene Chloride		0.8268	0.7412	0.7196	0.7355	0.7127	0.6686	0.7000	AVRG		1.37135		0.7292	7	15	0.05	0.99	
Carbon Disulfide		1.9474	2.3254	2.1752	2.4101	2.4573	2.2498	2.2581	AVRG		0.44239		2.2605	7	15	0.05	0.99	
MTBE		2.1105	1.9513	1.9146	1.9571	1.8983	1.7305	1.8474	AVRG		0.52201		1.9157	6	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6354	0.6521	0.6210	0.6539	0.6455	0.6000	0.6231	AVRG		1.57979		0.6330	3	15	0.05	0.99	
Vinyl Acetate		1.2765	1.1964	1.2395	1.2836	1.2361	1.1688	1.2435	AVRG		0.80978		1.2349	3	15	0.05	0.99	
1,1-Dichloroethane		1.2375	1.3187	1.2509	1.3333	1.3053	1.2239	1.3135	AVRG		0.77923		1.2833	3	15	0.10	0.99	
2-Butanone		0.4034	0.3401	0.3177	0.3410	0.3131	0.2725	0.2969	AVRG		3.06401		0.3264	13	15	0.05	0.99	
2,2-Dichloropropane		0.9511	1.1160	1.0445	1.1234	1.1406	1.0269	1.0302	AVRG		0.94179		1.0618	6	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6756	0.6776	0.6552	0.6946	0.6833	0.6374	0.6860	AVRG		1.48631		0.6728	3	15	0.05	0.99	
Chloroform		1.0891	1.1150	1.0870	1.1488	1.1265	1.0482	1.1090	AVRG		0.90630		1.1034	3	15	0.05	0.99	
Bromochloromethane		0.3099	0.2983	0.2933	0.3228	0.3210	0.2948	0.3191	AVRG		3.24227		0.3084	4	15	0.05	0.99	
1,1,1-Trichloroethane		0.8153	0.9773	0.9364	1.0219	1.0641	0.9525	0.9496	AVRG		1.04209		0.9596	8	15	0.05	0.99	
1,1-Dichloropropene		0.5072	0.6585	0.6092	0.6433	0.6787	0.6140	0.5928	AVRG		1.62654		0.6148	9	15	0.05	0.99	
Carbon Tetrachloride		0.4081	0.5661	0.5139	0.5701	0.6045	0.5449	0.5243	AVRG		1.87568		0.5331	12	15	0.05	0.99	
1,2-Dichloroethane		0.5832	0.5737	0.5657	0.5734	0.5575	0.5243	0.5564	AVRG		1.77930		0.5620	3	15	0.05	0.99	
Benzene		1.8548	1.9306	1.8787	1.9318	1.8906	1.7714	1.8044	AVRG		0.53590		1.8660	3	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene		0.4037	0.4576	0.4459	0.4662	0.4647	0.4267	0.4265	AVRG		2.26450		0.4416	5	15	0.05	0.99	
1,2-Dichloropropane		0.4738	0.4726	0.4729	0.4871	0.4689	0.4448	0.4608	AVRG		2.13353		0.4687	3	15	0.05	0.99	
Bromodichloromethane		0.5623	0.5556	0.5586	0.5631	0.5440	0.5186	0.5448	AVRG		1.81956		0.5496	3	15	0.05	0.99	
Dibromomethane		0.2186	0.2119	0.2153	0.2173	0.2134	0.1992	0.2127	AVRG		4.70276		0.2126	3	15	0.05	0.99	
4-Methyl-2-Pentanone		0.5854	0.5257	0.5191	0.5319	0.5123	0.4725	0.4985	AVRG		1.92026		0.5208	7	15	0.05	0.99	
cis-1,3-Dichloropropene		0.7503	0.7311	0.7350	0.7510	0.7285	0.6720	0.7149	AVRG		1.37723		0.7261	4	15	0.05	0.99	
Toluene		1.2947	1.3538	1.2655	1.3401	1.3404	1.2345	1.2272	AVRG		0.77295		1.2937	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.7102	0.6974	0.6769	0.6976	0.6811	0.6411	0.6708	AVRG		1.46594		0.6822	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.1986	0.1884	0.1824	0.1872	0.1800	0.1703	0.1791	AVRG		5.44334		0.1837	5	15	0.05	0.99	
2-Hexanone		0.4620	0.3997	0.4059	0.4197	0.3899	0.3529	0.3801	AVRG		2.49091		0.4015	8	15	0.05	0.99	
1,3-Dichloropropane		0.7185	0.6757	0.6978	0.7133	0.6752	0.6298	0.6632	AVRG		1.46640		0.6819	5	15	0.05	0.99	
Tetrachloroethene		0.3931	0.5174	0.4798	0.5390	0.5411	0.4842	0.4586	AVRG		2.05084		0.4876	11	15	0.05	0.99	
Dibromochloromethane		0.4064	0.3765	0.3952	0.4181	0.3994	0.3739	0.4006	AVRG		2.52700		0.3957	4	15	0.05	0.99	
1,2-Dibromoethane		0.3452	0.3256	0.3231	0.3327	0.3292	0.3071	0.3304	AVRG		3.05238		0.3276	4	15	0.05	0.99	
Chlorobenzene		1.5128	1.5162	1.5154	1.6007	1.5378	1.4346	1.4595	AVRG		0.66182		1.5110	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4958	0.4922	0.4849	0.5109	0.4880	0.4560	0.4764	AVRG		2.05629		0.4863	4	15	0.05	0.99	
Ethylbenzene		2.6988	2.8819	2.7902	2.9855	2.9383	2.6876	2.6283	AVRG		0.35695		2.8015	5	15	0.05	0.99	
m,p-Xylenes	1.2817	1.0989	1.1389	1.1256	1.2194	1.1979	1.1020	1.0894	AVRG		0.86451		1.1567	6	15	0.05	0.99	
o-Xylene		1.0858	1.1107	1.1166	1.1961	1.1693	1.0758	1.0934	AVRG		0.89198		1.1211	4	15	0.05	0.99	
Styrene		1.8771	1.8506	1.8379	1.9824	1.9004	1.7889	1.8261	AVRG		0.53584		1.8662	3	15	0.05	0.99	
Bromoform		0.2783	0.2679	0.2859	0.3018	0.2915	0.2782	0.2953	AVRG		3.50188		0.2856	4	15	0.10	0.99	
Isopropylbenzene		4.2878	5.0173	4.7781	5.1055	5.1358	4.5225	4.4859	AVRG		0.21000		4.7619	7	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9834	0.9169	0.9256	0.9473	0.8990	0.8300	0.8943	AVRG		1.09435		0.9138	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.0238	0.9806	0.9780	1.0112	0.9617	0.8885	0.9523	AVRG		1.03001		0.9709	5	15	0.05	0.99	
Propylbenzene		5.3196	6.2539	5.9060	6.3299	6.3636	5.5749	5.4150	AVRG		0.17006		5.8804	8	15	0.05	0.99	
Bromobenzene		1.1129	1.0734	1.0748	1.1267	1.0695	0.9944	1.0448	AVRG		0.93376		1.0709	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		4.0848	4.4360	4.3058	4.5874	4.5522	4.0857	4.0503	AVRG		0.23254		4.3003	5	15	0.05	0.99	
2-Chlorotoluene		3.9989	4.1454	4.0571	4.2226	4.0846	3.7165	3.7608	AVRG		0.25013		3.9980	5	15	0.05	0.99	
4-Chlorotoluene		3.8002	3.8101	3.6966	3.8796	3.7144	3.3875	3.4177	AVRG		0.27231		3.6723	5	15	0.05	0.99	
tert-Butylbenzene		3.0991	3.9034	3.6311	3.9888	4.0595	3.5740	3.4566	AVRG		0.27224		3.6732	9	15	0.05	0.99	
1,2,4-Trimethylbenzene		4.3686	4.4845	4.3760	4.6206	4.5136	4.0885	4.0705	AVRG		0.22934		4.3603	5	15	0.05	0.99	
sec-Butylbenzene		4.3696	5.8166	5.3049	5.9196	6.1307	5.2921	5.0447	AVRG		0.18480		5.4112	11	15	0.05	0.99	
para-Isopropyl Toluene		4.0722	5.0202	4.6425	5.1362	5.2202	4.5789	4.3981	AVRG		0.21168		4.7240	9	15	0.05	0.99	
1,3-Dichlorobenzene		2.3135	2.3145	2.2602	2.3776	2.2604	2.0857	2.1295	AVRG		0.44469		2.2488	5	15	0.05	0.99	
1,4-Dichlorobenzene		2.3935	2.3156	2.2877	2.4151	2.2877	2.1057	2.1625	AVRG		0.43838		2.2811	5	15	0.05	0.99	
n-Butylbenzene		3.7739	4.8225	4.3913	4.8920	5.0190	4.3418	4.1416	AVRG		0.22306		4.4831	10	15	0.05	0.99	
1,2-Dichlorobenzene		2.1305	2.0848	2.0544	2.1528	2.0739	1.8935	1.9535	AVRG		0.48803		2.0491	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2661	0.2386	0.2326	0.2374	0.2266	0.2000	0.2182	AVRG		4.32255		0.2313	9	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.5821	1.5593	1.5574	1.6818	1.6090	1.4729	1.4902	AVRG		0.63911		1.5647	5	15	0.05	0.99	
Hexachlorobutadiene		0.6665	0.9518	0.8584	0.9920	1.0493	0.8998	0.8865	AVRG		1.11035		0.9006	14	15	0.05	0.99	
Naphthalene		2.9807	3.0510	3.1825	3.4387	3.3124	3.0212	3.2029	AVRG		0.31547		3.1699	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,3-Trichlorobenzene		1.3800	1.4127	1.4141	1.5117	1.4507	1.3299	1.3774	AVRG		0.70875		1.4109	4	15	0.05	0.99	
Dibromofluoromethane					0.4184				AVRG		2.39031		0.4184	0	15	0.05	0.99	
1,2-Dichloroethane-d4					0.3496				AVRG		2.86021		0.3496	0	15	0.05	0.99	
Trifluorotoluene	0.8543	0.5426	0.8200	0.7408	0.8171	0.8735	0.7713	0.7121	AVRG		1.30471		0.7665	14	15	0.05	0.99	
Toluene-d8					1.2307				AVRG		0.81256		1.2307	0	15	0.05	0.99	
Bromofluorobenzene					0.9479				AVRG		1.05498		0.9479	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Freon 12	2.500	41	5.000	-24	10.00	5	20.00	-9	50.00	9	60.00	-1	75.00	-3		
Chloromethane			5.000	-1	10.00	8	20.00	-4	50.00	8	60.00	0	75.00	-5	100.0	-6
Vinyl Chloride	2.500	17	5.000	-20	10.00	4	20.00	-8	50.00	12	60.00	3	75.00	-2	100.0	-4
Bromomethane			5.000	3	10.00	2	20.00	-7	50.00	7	60.00	4	75.00	-6	100.0	-3
Chloroethane			5.000	-4	10.00	5	20.00	-5	50.00	10	60.00	2	75.00	-4	100.0	-5
Trichlorofluoromethane	2.500	37	5.000	-26	10.00	0	20.00	-9	50.00	10	60.00	-2	75.00	0	100.0	-2
Acetone							20.00	8	50.00	14	60.00	4	75.00	-15	100.0	-11
Freon 113	2.500	30	5.000	-39	10.00	18	20.00	-2	50.00	-1	60.00	1				
1,1-Dichloroethene			5.000	-22	10.00	0	20.00	-5	50.00	6	60.00	13	75.00	4	100.0	4
Methylene Chloride			5.000	13	10.00	2	20.00	-1	50.00	1	60.00	-2	75.00	-8	100.0	-4
Carbon Disulfide			5.000	-14	10.00	3	20.00	-4	50.00	7	60.00	9	75.00	0	100.0	0
MTBE			5.000	10	10.00	2	20.00	0	50.00	2	60.00	-1	75.00	-10	100.0	-4
trans-1,2-Dichloroethene			5.000	0	10.00	3	20.00	-2	50.00	3	60.00	2	75.00	-5	100.0	-2
Vinyl Acetate			5.000	3	10.00	-3	20.00	0	50.00	4	60.00	0	75.00	-5	100.0	1
1,1-Dichloroethane			5.000	-4	10.00	3	20.00	-3	50.00	4	60.00	2	75.00	-5	100.0	2
2-Butanone			5.000	24	10.00	4	20.00	-3	50.00	4	60.00	-4	75.00	-17	100.0	-9
2,2-Dichloropropane			5.000	-10	10.00	5	20.00	-2	50.00	6	60.00	7	75.00	-3	100.0	-3
cis-1,2-Dichloroethene			5.000	0	10.00	1	20.00	-3	50.00	3	60.00	2	75.00	-5	100.0	2
Chloroform			5.000	-1	10.00	1	20.00	-1	50.00	4	60.00	2	75.00	-5	100.0	1
Bromochloromethane			5.000	0	10.00	-3	20.00	-5	50.00	5	60.00	4	75.00	-4	100.0	3
1,1,1-Trichloroethane			5.000	-15	10.00	2	20.00	-2	50.00	6	60.00	11	75.00	-1	100.0	-1
1,1-Dichloropropene			5.000	-17	10.00	7	20.00	-1	50.00	5	60.00	10	75.00	0	100.0	-4
Carbon Tetrachloride			5.000	-23	10.00	6	20.00	-4	50.00	7	60.00	13	75.00	2	100.0	-2
1,2-Dichloroethane			5.000	4	10.00	2	20.00	1	50.00	2	60.00	-1	75.00	-7	100.0	-1
Benzene			5.000	-1	10.00	3	20.00	1	50.00	4	60.00	1	75.00	-5	100.0	-3
Trichloroethene			5.000	-9	10.00	4	20.00	1	50.00	6	60.00	5	75.00	-3	100.0	-3
1,2-Dichloropropane			5.000	1	10.00	1	20.00	1	50.00	4	60.00	0	75.00	-5	100.0	-2
Bromodichloromethane			5.000	2	10.00	1	20.00	2	50.00	2	60.00	-1	75.00	-6	100.0	-1
Dibromomethane			5.000	3	10.00	0	20.00	1	50.00	2	60.00	0	75.00	-6	100.0	0
4-Methyl-2-Pentanone			5.000	12	10.00	1	20.00	0	50.00	2	60.00	-2	75.00	-9	100.0	-4
cis-1,3-Dichloropropene			5.000	3	10.00	1	20.00	1	50.00	3	60.00	0	75.00	-7	100.0	-2
Toluene			5.000	0	10.00	5	20.00	-2	50.00	4	60.00	4	75.00	-5	100.0	-5
trans-1,3-Dichloropropene			5.000	4	10.00	2	20.00	-1	50.00	2	60.00	0	75.00	-6	100.0	-2
1,1,2-Trichloroethane			5.000	8	10.00	3	20.00	-1	50.00	2	60.00	-2	75.00	-7	100.0	-3
2-Hexanone			5.000	15	10.00	0	20.00	1	50.00	5	60.00	-3	75.00	-12	100.0	-5
1,3-Dichloropropane			5.000	5	10.00	-1	20.00	2	50.00	5	60.00	-1	75.00	-8	100.0	-3
Tetrachloroethene			5.000	-19	10.00	6	20.00	-2	50.00	11	60.00	11	75.00	-1	100.0	-6
Dibromochloromethane			5.000	3	10.00	-5	20.00	0	50.00	6	60.00	1	75.00	-6	100.0	1
1,2-Dibromoethane			5.000	5	10.00	-1	20.00	-1	50.00	2	60.00	0	75.00	-6	100.0	1
Chlorobenzene			5.000	0	10.00	0	20.00	0	50.00	6	60.00	2	75.00	-5	100.0	-3
1,1,1,2-Tetrachloroethane			5.000	2	10.00	1	20.00	0	50.00	5	60.00	0	75.00	-6	100.0	-2
Ethylbenzene			5.000	-4	10.00	3	20.00	0	50.00	7	60.00	5	75.00	-4	100.0	-6

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
m,p-Xylenes	5.000	11	10.00	-5	20.00	-2	40.00	-3	100.0	5	120.0	4	150.0	-5	200.0	-6
o-Xylene			5.000	-3	10.00	-1	20.00	0	50.00	7	60.00	4	75.00	-4	100.0	-2
Styrene			5.000	1	10.00	-1	20.00	-2	50.00	6	60.00	2	75.00	-4	100.0	-2
Bromoform			5.000	-3	10.00	-6	20.00	0	50.00	6	60.00	2	75.00	-3	100.0	3
Isopropylbenzene			5.000	-10	10.00	5	20.00	0	50.00	7	60.00	8	75.00	-5	100.0	-6
1,1,2,2-Tetrachloroethane			5.000	8	10.00	0	20.00	1	50.00	4	60.00	-2	75.00	-9	100.0	-2
1,2,3-Trichloropropane			5.000	5	10.00	1	20.00	1	50.00	4	60.00	-1	75.00	-8	100.0	-2
Propylbenzene			5.000	-10	10.00	6	20.00	0	50.00	8	60.00	8	75.00	-5	100.0	-8
Bromobenzene			5.000	4	10.00	0	20.00	0	50.00	5	60.00	0	75.00	-7	100.0	-2
1,3,5-Trimethylbenzene			5.000	-5	10.00	3	20.00	0	50.00	7	60.00	6	75.00	-5	100.0	-6
2-Chlorotoluene			5.000	0	10.00	4	20.00	1	50.00	6	60.00	2	75.00	-7	100.0	-6
4-Chlorotoluene			5.000	3	10.00	4	20.00	1	50.00	6	60.00	1	75.00	-8	100.0	-7
tert-Butylbenzene			5.000	-16	10.00	6	20.00	-1	50.00	9	60.00	11	75.00	-3	100.0	-6
1,2,4-Trimethylbenzene			5.000	0	10.00	3	20.00	0	50.00	6	60.00	4	75.00	-6	100.0	-7
sec-Butylbenzene			5.000	-19	10.00	7	20.00	-2	50.00	9	60.00	13	75.00	-2	100.0	-7
para-Isopropyl Toluene			5.000	-14	10.00	6	20.00	-2	50.00	9	60.00	11	75.00	-3	100.0	-7
1,3-Dichlorobenzene			5.000	3	10.00	3	20.00	1	50.00	6	60.00	1	75.00	-7	100.0	-5
1,4-Dichlorobenzene			5.000	5	10.00	2	20.00	0	50.00	6	60.00	0	75.00	-8	100.0	-5
n-Butylbenzene			5.000	-16	10.00	8	20.00	-2	50.00	9	60.00	12	75.00	-3	100.0	-8
1,2-Dichlorobenzene			5.000	4	10.00	2	20.00	0	50.00	5	60.00	1	75.00	-8	100.0	-5
1,2-Dibromo-3-Chloropropane			5.000	15	10.00	3	20.00	1	50.00	3	60.00	-2	75.00	-14	100.0	-6
1,2,4-Trichlorobenzene			5.000	1	10.00	0	20.00	0	50.00	7	60.00	3	75.00	-6	100.0	-5
Hexachlorobutadiene			5.000	-26	10.00	6	20.00	-5	50.00	10	60.00	17	75.00	0	100.0	-2
Naphthalene			5.000	-6	10.00	-4	20.00	0	50.00	8	60.00	4	75.00	-5	100.0	1
1,2,3-Trichlorobenzene			5.000	-2	10.00	0	20.00	0	50.00	7	60.00	3	75.00	-6	100.0	-2
Dibromofluoromethane									50.00	0						
1,2-Dichloroethane-d4									50.00	0						
Trifluorotoluene	2.500	11	5.000	-29	10.00	7	20.00	-3	50.00	7	60.00	14	75.00	1	100.0	-7
Toluene-d8									50.00	0						
Bromofluorobenzene									50.00	0						

Analyst: BO Date: 02/29/08 Reviewer: LW Date: 03/03/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

888085442001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202203 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Name : 8260GX12
Calnum : 888085442001 Cal Date : 28-FEB-2008 Type : SOIL

ICV 888085442024 (lbs24 28-FEB-2008) stds: S8297 (10000X), S8073 (5000X)
ICV 888085442025 (lbs25 28-FEB-2008) stds: S8260 (10000X), S8170 (10000X), S8073 (5000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	888085442024	1.1908	0.8264	25.00	16.98	ug/L	**-32**	20	v- ***
Chloromethane	888085442024	1.5102	1.2972	25.00	21.47	ug/L	-14	20	
Vinyl Chloride	888085442024	1.3941	1.2300	25.00	22.06	ug/L	-12	20	
Bromomethane	888085442024	0.7417	0.6439	25.00	21.70	ug/L	-13	20	
Chloroethane	888085442024	0.7965	0.7250	25.00	22.75	ug/L	-9	20	
Trichlorofluoromethane	888085442024	1.2077	1.1707	25.00	23.55	ug/L	-6	20	
Acetone	888085442025	0.2245	0.2814	25.00	31.34	ug/L	25	30	
Freon 113	888085442025	0.5598	0.6099	25.00	27.96	ug/L	12	20	
1,1-Dichloroethene	888085442025	0.5481	0.6077	25.00	27.72	ug/L	11	20	
Methylene Chloride	888085442025	0.7292	0.7763	25.00	26.61	ug/L	6	20	
Carbon Disulfide	888085442025	2.2605	1.9940	25.00	22.05	ug/L	-12	20	
MTBE	888085442025	1.9157	2.0280	25.00	26.47	ug/L	6	20	
trans-1,2-Dichloroethene	888085442025	0.6330	0.6724	25.00	26.56	ug/L	6	20	
Vinyl Acetate	888085442025	1.2349	0.9537	25.00	19.31	ug/L	-23	30	
1,1-Dichloroethane	888085442025	1.2833	1.3781	25.00	26.85	ug/L	7	20	
2-Butanone	888085442025	0.3264	0.3524	25.00	26.99	ug/L	8	30	
2,2-Dichloropropane	888085442025	1.0618	1.1502	25.00	27.08	ug/L	8	20	
cis-1,2-Dichloroethene	888085442025	0.6728	0.7429	25.00	27.60	ug/L	10	20	
Chloroform	888085442025	1.1034	1.1964	25.00	27.11	ug/L	8	20	
Bromochloromethane	888085442025	0.3084	0.3141	25.00	25.46	ug/L	2	20	
1,1,1-Trichloroethane	888085442025	0.9596	1.0876	25.00	28.33	ug/L	13	20	
1,1-Dichloropropene	888085442025	0.6148	0.6894	25.00	28.03	ug/L	12	20	
Carbon Tetrachloride	888085442025	0.5331	0.6080	25.00	28.51	ug/L	14	20	
1,2-Dichloroethane	888085442025	0.5620	0.6116	25.00	27.21	ug/L	9	20	
Benzene	888085442025	1.8660	2.0188	25.00	27.05	ug/L	8	20	
Trichloroethene	888085442025	0.4416	0.4931	25.00	27.91	ug/L	12	20	
1,2-Dichloropropane	888085442025	0.4687	0.5146	25.00	27.45	ug/L	10	20	
Bromodichloromethane	888085442025	0.5496	0.6132	25.00	27.89	ug/L	12	20	
Dibromomethane	888085442025	0.2126	0.2256	25.00	26.53	ug/L	6	20	
4-Methyl-2-Pentanone	888085442025	0.5208	0.5144	25.00	24.69	ug/L	-1	30	
cis-1,3-Dichloropropene	888085442025	0.7261	0.7789	25.00	26.82	ug/L	7	20	
Toluene	888085442025	1.2937	1.3586	25.00	26.25	ug/L	5	20	
trans-1,3-Dichloropropene	888085442025	0.6822	0.6515	25.00	23.88	ug/L	-4	20	
1,1,2-Trichloroethane	888085442025	0.1837	0.1975	25.00	26.88	ug/L	8	20	
2-Hexanone	888085442025	0.4015	0.4147	25.00	25.82	ug/L	3	30	
1,3-Dichloropropane	888085442025	0.6819	0.7538	25.00	27.64	ug/L	11	20	
Tetrachloroethene	888085442025	0.4876	0.5493	25.00	28.16	ug/L	13	20	
Dibromochloromethane	888085442025	0.3957	0.4209	25.00	26.59	ug/L	6	20	
1,2-Dibromoethane	888085442025	0.3276	0.3527	25.00	26.91	ug/L	8	20	
Chlorobenzene	888085442025	1.5110	1.5859	25.00	26.24	ug/L	5	20	
1,1,1,2-Tetrachloroethane	888085442025	0.4863	0.5233	25.00	26.90	ug/L	8	20	
Ethylbenzene	888085442025	2.8015	3.0555	25.00	27.27	ug/L	9	20	
m,p-Xylenes	888085442025	1.1567	1.2054	50.00	52.10	ug/L	4	20	
o-Xylene	888085442025	1.1211	1.1646	25.00	25.97	ug/L	4	20	
Styrene	888085442025	1.8662	1.9502	25.00	26.13	ug/L	5	20	
Bromoform	888085442025	0.2856	0.2949	25.00	25.82	ug/L	3	20	
Isopropylbenzene	888085442025	4.7619	4.7616	25.00	25.00	ug/L	0	20	

888085442001 ICVs

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	888085442025	0.9138	0.9630	25.00	26.35	ug/L	5	20	
1,2,3-Trichloropropane	888085442025	0.9709	1.0348	25.00	26.65	ug/L	7	20	
Propylbenzene	888085442025	5.8804	6.5355	25.00	27.78	ug/L	11	20	
Bromobenzene	888085442025	1.0709	1.1652	25.00	27.20	ug/L	9	20	
1,3,5-Trimethylbenzene	888085442025	4.3003	4.7323	25.00	27.51	ug/L	10	20	
2-Chlorotoluene	888085442025	3.9980	4.3311	25.00	27.08	ug/L	8	20	
4-Chlorotoluene	888085442025	3.6723	3.8716	25.00	26.36	ug/L	5	20	
tert-Butylbenzene	888085442025	3.6732	4.1742	25.00	28.41	ug/L	14	20	
1,2,4-Trimethylbenzene	888085442025	4.3603	4.8892	25.00	28.03	ug/L	12	20	
sec-Butylbenzene	888085442025	5.4112	6.2369	25.00	28.81	ug/L	15	20	
para-Isopropyl Toluene	888085442025	4.7240	5.1518	25.00	27.26	ug/L	9	20	
1,3-Dichlorobenzene	888085442025	2.2488	2.3552	25.00	26.18	ug/L	5	20	
1,4-Dichlorobenzene	888085442025	2.2811	2.3657	25.00	25.93	ug/L	4	20	
n-Butylbenzene	888085442025	4.4831	5.1594	25.00	28.77	ug/L	15	20	
1,2-Dichlorobenzene	888085442025	2.0491	2.1624	25.00	26.38	ug/L	6	20	
1,2-Dibromo-3-Chloropropane	888085442025	0.2313	0.2264	25.00	24.47	ug/L	-2	20	
1,2,4-Trichlorobenzene	888085442025	1.5647	1.6129	25.00	25.77	ug/L	3	20	
Hexachlorobutadiene	888085442025	0.9006	1.0439	25.00	28.98	ug/L	16	20	
Naphthalene	888085442025	3.1699	3.3486	25.00	26.41	ug/L	6	20	
1,2,3-Trichlorobenzene	888085442025	1.4109	1.5033	25.00	26.64	ug/L	7	20	

-=low bias v=ICV

888085442001 ICVs

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202203 MSVOA Soil: EPA 8260B

Inst : MSVOA12
Calnum : 888114360001 Date : 19-MAR-2008 12:53 Type : SOIL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	lcj06	888114360006	SUROGATES	19-MAR-2008 12:53	S8549 (5000X)

Analyte	L1	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Dibromofluoromethane	0.3863	AVRG		2.58883		0.3863	0	15	0.05	0.99	
1,2-Dichloroethane-d4	0.2401	AVRG		4.16458		0.2401	0	15	0.05	0.99	
Toluene-d8	1.2713	AVRG		0.78657		1.2713	0	15	0.05	0.99	
Bromofluorobenzene	0.7839	AVRG		1.27564		0.7839	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D
Dibromofluoromethane	50.00	0
1,2-Dichloroethane-d4	50.00	0
Toluene-d8	50.00	0
Bromofluorobenzene	50.00	0

Analyst: BO Date: 03/19/08 Reviewer: LW Date: 03/19/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202203 MSVOA Soil
EPA 8260B

Inst : MSVOA12 Run Name : 25PPB IDF : 1.0
Seqnum : 888125800003.1 File : lcr03 Time : 27-MAR-2008 09:33
Caltype : SOIL

Standards: S8668 (20000X), S8539 (20000X), S8549 (5000X)

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	888085442001	28-FEB-2008	1.1908	1.1076	25.00	22.48	ug/L	-10	20	0.0500	m
Chloromethane	888085442001	28-FEB-2008	1.5102	1.8199	25.00	30.13	ug/L	**21**	20	0.1000	c+ m ***
Vinyl Chloride	888085442001	28-FEB-2008	1.3941	1.6303	25.00	29.24	ug/L	17	20	0.0500	
Bromomethane	888085442001	28-FEB-2008	0.7417	0.8142	25.00	27.44	ug/L	10	20	0.0500	
Chloroethane	888085442001	28-FEB-2008	0.7965	0.8230	25.00	25.83	ug/L	3	20	0.0500	
Trichlorofluoromethane	888085442001	28-FEB-2008	1.2077	0.8534	25.00	17.34	ug/L	**-31**	20	0.0500	c- ***
Acetone	888085442001	28-FEB-2008	0.2245	0.2085	25.00	23.22	ug/L	-7	30	0.0500	
Freon 113	888085442001	28-FEB-2008	0.5598	0.4355	25.00	20.68	ug/L	-17	20	0.0500	
1,1-Dichloroethene	888085442001	28-FEB-2008	0.5481	0.4909	25.00	22.39	ug/L	-10	20	0.0500	
Methylene Chloride	888085442001	28-FEB-2008	0.7292	0.6851	25.00	23.49	ug/L	-6	20	0.0500	
Carbon Disulfide	888085442001	28-FEB-2008	2.2605	1.9367	25.00	21.42	ug/L	-14	20	0.0500	
MTBE	888085442001	28-FEB-2008	1.9157	1.5093	25.00	19.70	ug/L	**-21**	20	0.0500	c- ***
trans-1,2-Dichloroethene	888085442001	28-FEB-2008	0.6330	0.6093	25.00	24.07	ug/L	-4	20	0.0500	
Vinyl Acetate	888085442001	28-FEB-2008	1.2349	0.9475	25.00	19.18	ug/L	-23	30	0.0500	
1,1-Dichloroethane	888085442001	28-FEB-2008	1.2833	1.0221	25.00	19.91	ug/L	-20	20	0.1000	
2-Butanone	888085442001	28-FEB-2008	0.3264	0.2768	25.00	21.20	ug/L	-15	30	0.0500	
2,2-Dichloropropane	888085442001	28-FEB-2008	1.0618	0.7715	25.00	18.16	ug/L	**-27**	20	0.0500	c- ***
cis-1,2-Dichloroethene	888085442001	28-FEB-2008	0.6728	0.6516	25.00	24.21	ug/L	-3	20	0.0500	
Chloroform	888085442001	28-FEB-2008	1.1034	0.8884	25.00	20.13	ug/L	-19	20	0.0500	
Bromochloromethane	888085442001	28-FEB-2008	0.3084	0.2977	25.00	24.13	ug/L	-3	20	0.0500	
1,1,1-Trichloroethane	888085442001	28-FEB-2008	0.9596	0.7553	25.00	19.68	ug/L	**-21**	20	0.0500	c- ***
1,1-Dichloropropene	888085442001	28-FEB-2008	0.6148	0.4956	25.00	20.15	ug/L	-19	20	0.0500	
Carbon Tetrachloride	888085442001	28-FEB-2008	0.5331	0.4382	25.00	20.55	ug/L	-18	20	0.0500	
1,2-Dichloroethane	888085442001	28-FEB-2008	0.5620	0.3485	25.00	15.50	ug/L	**-38**	20	0.0500	c- ***
Benzene	888085442001	28-FEB-2008	1.8660	1.8150	25.00	24.32	ug/L	-3	20	0.0500	
Trichloroethene	888085442001	28-FEB-2008	0.4416	0.3918	25.00	22.18	ug/L	-11	20	0.0500	
1,2-Dichloropropane	888085442001	28-FEB-2008	0.4687	0.4334	25.00	23.12	ug/L	-8	20	0.0500	
Bromodichloromethane	888085442001	28-FEB-2008	0.5496	0.4234	25.00	19.26	ug/L	**-23**	20	0.0500	c- ***
Dibromomethane	888085442001	28-FEB-2008	0.2126	0.1901	25.00	22.35	ug/L	-11	20	0.0500	
4-Methyl-2-Pentanone	888085442001	28-FEB-2008	0.5208	0.3986	25.00	19.13	ug/L	-23	30	0.0500	
cis-1,3-Dichloropropene	888085442001	28-FEB-2008	0.7261	0.6222	25.00	21.42	ug/L	-14	20	0.0500	
Toluene	888085442001	28-FEB-2008	1.2937	1.3096	25.00	25.31	ug/L	1	20	0.0500	
trans-1,3-Dichloropropene	888085442001	28-FEB-2008	0.6822	0.5340	25.00	19.57	ug/L	**-22**	20	0.0500	c- ***
1,1,2-Trichloroethane	888085442001	28-FEB-2008	0.1837	0.1753	25.00	23.86	ug/L	-5	20	0.0500	
2-Hexanone	888085442001	28-FEB-2008	0.4015	0.2832	25.00	17.64	ug/L	-29	30	0.0500	m
1,3-Dichloropropane	888085442001	28-FEB-2008	0.6819	0.5926	25.00	21.72	ug/L	-13	20	0.0500	
Tetrachloroethene	888085442001	28-FEB-2008	0.4876	0.4743	25.00	24.32	ug/L	-3	20	0.0500	
Dibromochloromethane	888085442001	28-FEB-2008	0.3957	0.3358	25.00	21.22	ug/L	-15	20	0.0500	
1,2-Dibromoethane	888085442001	28-FEB-2008	0.3276	0.3224	25.00	24.60	ug/L	-2	20	0.0500	
Chlorobenzene	888085442001	28-FEB-2008	1.5110	1.4299	25.00	23.66	ug/L	-5	20	0.3000	
1,1,1,2-Tetrachloroethane	888085442001	28-FEB-2008	0.4863	0.4258	25.00	21.89	ug/L	-12	20	0.0500	
Ethylbenzene	888085442001	28-FEB-2008	2.8015	2.4986	25.00	22.30	ug/L	-11	20	0.0500	
m,p-Xylenes	888085442001	28-FEB-2008	1.1567	1.1012	50.00	47.60	ug/L	-5	20	0.0500	
o-Xylene	888085442001	28-FEB-2008	1.1211	1.0379	25.00	23.14	ug/L	-7	20	0.0500	
Styrene	888085442001	28-FEB-2008	1.8662	1.6617	25.00	22.26	ug/L	-11	20	0.0500	
Bromoform	888085442001	28-FEB-2008	0.2856	0.2530	25.00	22.15	ug/L	-11	20	0.1000	
Isopropylbenzene	888085442001	28-FEB-2008	4.7619	3.9679	25.00	20.83	ug/L	-17	20	0.0500	
1,1,2,2-Tetrachloroethane	888085442001	28-FEB-2008	0.9138	0.8083	25.00	22.11	ug/L	-12	20	0.3000	

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	888085442001	28-FEB-2008	0.9709	0.7607	25.00	19.59	ug/L	**-22**	20	0.0500	c- ***
Propylbenzene	888085442001	28-FEB-2008	5.8804	5.0283	25.00	21.38	ug/L	-14	20	0.0500	
Bromobenzene	888085442001	28-FEB-2008	1.0709	0.9697	25.00	22.64	ug/L	-9	20	0.0500	
1,3,5-Trimethylbenzene	888085442001	28-FEB-2008	4.3003	3.4933	25.00	20.31	ug/L	-19	20	0.0500	
2-Chlorotoluene	888085442001	28-FEB-2008	3.9980	3.1726	25.00	19.84	ug/L	**-21**	20	0.0500	c- ***
4-Chlorotoluene	888085442001	28-FEB-2008	3.6723	2.9387	25.00	20.01	ug/L	-20	20	0.0500	
tert-Butylbenzene	888085442001	28-FEB-2008	3.6732	3.0880	25.00	21.02	ug/L	-16	20	0.0500	
1,2,4-Trimethylbenzene	888085442001	28-FEB-2008	4.3603	3.5579	25.00	20.40	ug/L	-18	20	0.0500	
sec-Butylbenzene	888085442001	28-FEB-2008	5.4112	4.5747	25.00	21.14	ug/L	-15	20	0.0500	
para-Isopropyl Toluene	888085442001	28-FEB-2008	4.7240	3.9345	25.00	20.82	ug/L	-17	20	0.0500	
1,3-Dichlorobenzene	888085442001	28-FEB-2008	2.2488	2.1319	25.00	23.70	ug/L	-5	20	0.0500	
1,4-Dichlorobenzene	888085442001	28-FEB-2008	2.2811	2.2354	25.00	24.50	ug/L	-2	20	0.0500	
n-Butylbenzene	888085442001	28-FEB-2008	4.4831	3.7498	25.00	20.91	ug/L	-16	20	0.0500	
1,2-Dichlorobenzene	888085442001	28-FEB-2008	2.0491	1.9611	25.00	23.93	ug/L	-4	20	0.0500	
1,2-Dibromo-3-Chloropropane	888085442001	28-FEB-2008	0.2313	0.1322	25.00	14.28	ug/L	**-43**	20	0.0500	c- ***
1,2,4-Trichlorobenzene	888085442001	28-FEB-2008	1.5647	1.4142	25.00	22.60	ug/L	-10	20	0.0500	
Hexachlorobutadiene	888085442001	28-FEB-2008	0.9006	0.6501	25.00	18.05	ug/L	**-28**	20	0.0500	c- ***
Naphthalene	888085442001	28-FEB-2008	3.1699	3.0138	25.00	23.77	ug/L	-5	20	0.0500	
1,2,3-Trichlorobenzene	888085442001	28-FEB-2008	1.4109	1.2996	25.00	23.03	ug/L	-8	20	0.0500	
Dibromofluoromethane	888114360001	19-MAR-2008	0.3863	0.3941	50.00	51.01	ug/L	2	20	0.0500	
1,2-Dichloroethane-d4	888114360001	19-MAR-2008	0.2401	0.2393	50.00	49.82	ug/L	0	20	0.0500	
Trifluorotoluene	888085442001	28-FEB-2008	0.7665	0.7359	25.00	24.00	ug/L	-4	20	0.0500	
Toluene-d8	888114360001	19-MAR-2008	1.2713	1.2705	50.00	49.97	ug/L	0	20	0.0500	
Bromofluorobenzene	888114360001	19-MAR-2008	0.7839	0.7439	50.00	47.45	ug/L	-5	20	0.0500	

ISTD (ICAL lbs20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	229974	200585	-12.78	9.75	9.75	0.00
1,4-Difluorobenzene	342851	294291	-14.16	10.60	10.60	0.00
Chlorobenzene-d5	324559	306309	-5.62	13.72	13.72	0.00
1,4-Dichlorobenzene-d4	197781	205008	3.65	16.22	16.21	-0.01

ISTD (ICAL lcj06)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	195226	200585	2.75	9.75	9.75	0.01
1,4-Difluorobenzene	288976	294291	1.84	10.60	10.60	0.00
1,4-Dichlorobenzene-d4	175051	205008	17.11	16.21	16.21	0.00

Analyst: MJD Date: 03/28/08 Reviewer: MJM Date: 03/31/08

+=high bias -=low bias c=CCV m=manual integration

888125800003.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 888125800

Date : 03/27/08
Sequence : MSVOA12 lcr

Reference : lbs20
Analyzed : 02/28/08 17:38

#	Type	Sample ID	PFLBZ		RT	14DFB		RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	229974		9.75	342851		10.60	324559	13.72	197781	16.22
		LOWER LIMIT	114987		9.25	171426		10.10	162280	13.22	98891	15.72
		UPPER LIMIT	459948		10.25	685702		11.10	649118	14.22	395562	16.72
003	CCV	25PPB	200585		9.75	294291		10.60	306309	13.72	205008	16.21
004	BS	QC434811	184686		9.75	271840		10.60	283905	13.72	193810	16.21
005	BSD	QC434812	187506		9.75	271784		10.60	277825	13.72	188313	16.21
007	BLANK	QC434810	184232		9.75	271399		10.60	288521	13.72	171742	16.21
009	SAMPLE	202089-001	103019	*	9.74	139986	*	10.60	205434	13.72	166526	16.21
010	SAMPLE	202083-005	184385		9.74	267503		10.60	283549	13.72	172202	16.21
011	SAMPLE	202207-001	117297		9.74	145431	*	10.60	204641	13.72	164531	16.21
012	SAMPLE	202105-005	103617	*	9.74	131552	*	10.60	186782	13.72	148797	16.21
013	SAMPLE	202124-001	121147		9.74	153509	*	10.60	208202	13.72	159146	16.21
014	SAMPLE	202124-007	164408		9.74	232927		10.60	258460	13.72	159851	16.21
015	SAMPLE	202124-011	178479		9.74	263329		10.60	275042	13.72	161134	16.21
016	SAMPLE	202200-001	182158		9.74	276572		10.60	288903	13.72	169717	16.21
017	SAMPLE	202225-002	192396		9.74	286118		10.60	299352	13.72	182391	16.21
018	MSS	202203-001	174144		9.74	264516		10.60	262644	13.72	126617	16.21
019	MS	QC434966	188663		9.75	283387		10.60	295327	13.72	199457	16.21
020	MSD	QC434967	198257		9.75	310793		10.60	309567	13.72	180637	16.21

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 888125800

Date : 03/27/08
Sequence : MSVOA12 lcr

Reference : lcj06
Analyzed : 03/19/08 12:53

#	Type	Sample ID	PFLBZ	RT	14DFB		RT	DCBZ14D4	RT
		ICAL STD	195226	9.75	288976		10.60	175051	16.21
		LOWER LIMIT	97613	9.25	144488		10.10	87526	15.71
		UPPER LIMIT	390452	10.25	577952		11.10	350102	16.71
003	CCV	25PPB	200585	9.75	294291		10.60	205008	16.21
004	BS	QC434811	184686	9.75	271840		10.60	193810	16.21
005	BSD	QC434812	187506	9.75	271784		10.60	188313	16.21
007	BLANK	QC434810	184232	9.75	271399		10.60	171742	16.21
009	SAMPLE	202089-001	103019	9.74	139986	*	10.60	166526	16.21
010	SAMPLE	202083-005	184385	9.74	267503		10.60	172202	16.21
011	SAMPLE	202207-001	117297	9.74	145431		10.60	164531	16.21
012	SAMPLE	202105-005	103617	9.74	131552	*	10.60	148797	16.21
013	SAMPLE	202124-001	121147	9.74	153509		10.60	159146	16.21
014	SAMPLE	202124-007	164408	9.74	232927		10.60	159851	16.21
015	SAMPLE	202124-011	178479	9.74	263329		10.60	161134	16.21
016	SAMPLE	202200-001	182158	9.74	276572		10.60	169717	16.21
017	SAMPLE	202225-002	192396	9.74	286118		10.60	182391	16.21
018	MSS	202203-001	174144	9.74	264516		10.60	126617	16.21
019	MS	QC434966	188663	9.75	283387		10.60	199457	16.21
020	MSD	QC434967	198257	9.75	310793		10.60	180637	16.21

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 888085442

Instrument : MSVOA12
Method : EPA 8260B

Begun : 02/28/08 08:02
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	lbs01	TUN	BFB			02/28/08 08:02	1.0	1	
002	lbs02	TUN	BFB			02/28/08 09:24	1.0	1	
003	lbs03	TUN	BFB			02/28/08 09:53	1.0	1	
004	lbs04	TUN	BFB			02/28/08 10:19	1.0	1	
005	lbs05	TUN	BFB			02/28/08 10:31	1.0	1	
006	lbs06	TUN	BFB			02/28/08 10:42	1.0	1	
007	lbs07	TUN	BFB			02/28/08 11:04	1.0	1	
008	lbs08	TUN	BFB			02/28/08 11:18	1.0	1	
009	lbs09	TUN	BFB			02/28/08 11:33	1.0	1	
010	lbs10	TUN	BFB			02/28/08 11:45	1.0	1	
011	lbs11	TUN	BFB			02/28/08 12:04	1.0	1	
012	lbs12	TUN	BFB			02/28/08 12:45	1.0	1	
013	lbs13	X	IB			02/28/08 13:53	1.0	2	
014	lbs14	X	IB			02/28/08 14:25	1.0	2	
015	lbs15	IB	CALIB IB			02/28/08 14:57	1.0	2	
016	lbs16	ICAL	2.5PPB			02/28/08 15:29	1.0	3 4 2	
017	lbs17	ICAL	5PPB			02/28/08 16:02	1.0	3 4 2	
018	lbs18	ICAL	10PPB			02/28/08 16:34	1.0	3 4 2	
019	lbs19	ICAL	20PPB			02/28/08 17:06	1.0	3 4 2	
020	lbs20	ICAL	50PPB			02/28/08 17:38	1.0	3 4 2	
021	lbs21	ICAL	60PPB			02/28/08 18:10	1.0	3 4 2	
022	lbs22	ICAL	75PPB			02/28/08 18:43	1.0	3 4 2	
023	lbs23	ICAL	100PPB			02/28/08 19:15	1.0	3 4 2	
024	lbs24	ICV	25PPB			02/28/08 19:47	1.0	5 2	
025	lbs25	ICV	25PPB			02/28/08 20:20	1.0	6 7 2	
026	lbs26	X	IB			02/28/08 20:52	1.0	2	
027	lbs27	X	IB			02/28/08 21:24	1.0	2	
028	lbs28	X	IB			02/28/08 21:56	1.0	2	

Analyst: BO Date: 02/29/08 Reviewer: LW Date: 03/03/08

Standards used: 1=S7916 2=S8073 3=S8368 4=S8294 5=S8297 6=S8260 7=S8170

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 888114360

Instrument : MSVOA12
Method : EPA 8260B
Begun : 03/19/08 10:00
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	lcj01	X	IB				03/19/08 10:00	1.0	1
002	lcj02	X	BFB				03/19/08 10:37	1.0	2
003	lcj03	X	BFB				03/19/08 10:48	1.0	2
004	lcj04	X	IB		Soil		03/19/08 11:16	1.0	1
005	lcj05	TUN	BFB				03/19/08 12:19	1.0	2
006	lcj06	ICAL	SUROGATES				03/19/08 12:53	1.0	1
007	lcj07	CCV/LCS	QC433602		Soil	136158	03/19/08 13:26	1.0	3 4 5 6 1
008	lcj08	PREPBLK	QC433613	M	Soil	136158	03/19/08 14:16	25.0	6 1
009	lcj09	BLANK	QC433601		Soil	136158	03/19/08 15:11	1.0	1
010	lcj10	SAMPLE	202007-012		Soil	136158	03/19/08 15:43	0.8333	1
011	lcj11	SAMPLE	202029-001		Soil	136158	03/19/08 16:15	0.9434	1
012	lcj12	SAMPLE	202007-014		Soil	136158	03/19/08 17:06	1.136	1
013	lcj13	SAMPLE	201959-015		Soil	136158	03/19/08 17:38	0.5000	1
014	lcj14	MSS	201959-014		Soil	136158	03/19/08 18:10	0.5435	1
015	lcj15	SAMPLE	201959-013	M	Soil	136158	03/19/08 18:43	25.0	6 1
016	lcj16	SAMPLE	202007-009	M	Soil	136158	03/19/08 19:15	25.0	6 1
017	lcj17	SAMPLE	202007-010	M	Soil	136158	03/19/08 19:47	25.0	6 1
018	lcj18	SAMPLE	202007-011	M	Soil	136158	03/19/08 20:19	25.0	6 1
019	lcj19	SAMPLE	201977-004	M	Soil	136158	03/19/08 20:52	25.0	6 1
020	lcj20	SAMPLE	202038-003		Soil	136158	03/19/08 21:24	0.9434	1
021	lcj21	MS	QC433664		Soil	136158	03/19/08 21:56	0.5495	3 4 5 1
022	lcj22	MSD	QC433665		Soil	136158	03/19/08 22:28	0.5376	3 4 5 1
023	lcj23	X	IB				03/19/08 23:01	1.0	1
024	lcj24	X	IB				03/19/08 23:33	1.0	1
025	lcj25	X	12A				03/20/08 00:05	1.0	1
026	lcj26	X	12B				03/20/08 00:38	1.0	1
027	lcj27	X	IB				03/20/08 01:10	1.0	1
028	lcj28	X	IB				03/20/08 01:42	1.0	1

Analyst: MJD Date: 03/20/08 Reviewer: LW Date: 03/20/08

Standards used: 1=S8549 2=S7916 3=S8648 4=S8534 5=S8538 6=S8493

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 888125800

Instrument : MSVOA12
Method : EPA 8260B

Begun : 03/27/08 08:40
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	lcr01	X	IB				03/27/08 08:40	1.0	1	
002	lcr02	TUN	BFB				03/27/08 09:07	1.0	2	
003	lcr03	CCV	25PPB				03/27/08 09:33	1.0	3 4 1	
004	lcr04	BS	QC434811		Soil	136446	03/27/08 10:05	1.0	5 6 7 8 1	
005	lcr05	BSD	QC434812		Soil	136446	03/27/08 10:38	1.0	5 6 7 8 1	
006	lcr06	X	IB				03/27/08 11:10	1.0	1	
007	lcr07	BLANK	QC434810		Soil	136446	03/27/08 11:42	1.0	1	
008	lcr08	X	QC434895	M	Soil	136446	03/27/08 12:14	25.0	8 1	
009	lcr09	SAMPLE	202089-001	M	Soil	136446	03/27/08 12:47	25.0	8 1	1:DCE12C=120
010	lcr10	SAMPLE	202083-005	M	Soil	136446	03/27/08 13:19	1000	8 1	
011	lcr11	SAMPLE	202207-001	M	Soil	136446	03/27/08 13:51	50.0	8 1	1:TCE=140
012	lcr12	SAMPLE	202105-005	M	Soil	136446	03/27/08 14:23	71.43	8 1	
013	lcr13	SAMPLE	202124-001	M	Soil	136446	03/27/08 14:56	71.43	8 1	
014	lcr14	SAMPLE	202124-007	M	Soil	136446	03/27/08 15:28	500.0	8 1	
015	lcr15	SAMPLE	202124-011	M	Soil	136446	03/27/08 16:00	3333	8 1	
016	lcr16	SAMPLE	202200-001		Soil	136446	03/27/08 16:32	1.0	1	
017	lcr17	SAMPLE	202225-002		Soil	136446	03/27/08 17:04	0.9615	1	
018	lcr18	MSS	202203-001		Soil	136446	03/27/08 17:37	0.8333	1	
019	lcr19	MS	QC434966		Soil	136446	03/27/08 18:09	0.8621	7 9 5 1	
020	lcr20	MSD	QC434967		Soil	136446	03/27/08 18:41	0.8197	7 9 5 1	1:ACE=110
021	lcr21	X	IB				03/27/08 19:13	1.0	1	
022	lcr22	X	IB				03/27/08 19:46	1.0	1	
023	lcr23	X	IB				03/27/08 20:18	1.0	1	
024	lcr24	X	IB				03/27/08 20:50	1.0	1	
025	lcr25	X	12A				03/27/08 21:22	1.0	1	
026	lcr26	X	12B				03/27/08 21:54	1.0	1	

Analyst: MJD Date: 03/27/08 Reviewer: ACM Date: 03/28/08

Standards used: 1=S8549 2=S7916 3=S8668 4=S8539 5=S8648 6=S8721 7=S8538 8=S8493 9=S8534

00077

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 3/27/08
Prepped by: Zia

136447 (4)
136446 (12)
136420 (7)

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	202105-005	0.070	A		12	RR @ 71.4 x		
2	202200-001	5.0	↓		↓			
3	202225-002	5.2	↓		↓			
4	202221-001	5.5	A		4			
5	-002	5.2	↓		↓			
6	~~-003~~	~~—~~	~~—~~					
7	-004	5.4	A					
8	-005	5.3	↓					
9	-006	5.1	↓					
10	-007	5.4	A			MSS/MSD/MSD		
11	-008	5.4	↓		↓			
12	202207-001	0.050	B		7	ENCORE RR @ 100X		
13	202105-005	0.070	A		↓	RR @ 71.4 x ISTD ↓ SURR ↑		
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24	P. Blank MeOH	0.200			12	3/26/08 25x		
25	↓	↓			7	3/27/08 ↓		
26	P. Blank MeOH	0.200			7	3/26/08 25x		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	202106-004	0.200	B		7	RR @ 25x ISTD ↓		
2	005	↓	↓		↓	RR @ 35x		
3	006		↓			RR @ 25x ISTD ↓		
4	007		C			RR @ 25x ISTD ↓		
5	008		↓			RR @ 25x ISTD ↓		
6	011					RR @ ~~25x~~ 25X ISTD ↓ SURR ↑	4/3/08	
7	014					RR @ 25x ISTD ↓		
8	015	↓	↓		↓	RR @ 25x ISTD ↓		
9	~~202105-005~~	~~—~~	~~—~~					
10	202083-005	0.005	B	4/3/08	12	RR @ 1000 x		
11	202207-001 5.1g	0.100	~~B~~ B	X	12	RR @ ~~25x~~ 50X		
	202124-001	0.070	A		12	RR @ 71.4 x		
	007	0.010	↓		↓	RR @ 500 x		
14	011	0.0015	↓		↓	RR @ ~~250~~ x 3300 x		
15	202089-1	0.200	B		12	25x		
16	202203-001 6.4	5.8/6.1	ABC		12	MSS/MS/MSD		
17	202089-001	0.2	B		7	RR @ 25x		

F:/home/terri/templates/Soilprepsheet.xls

Date & Initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Analysis	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comment
3/3/08 ZE	Blank See on Page #46			Q 5035	Prep Log Book		# BK 1860	
	201388-1 A	10.0	10.0	CT981	8260	58493	0.010	Re-extracted
	201505-1	"	"	"	"	"	"	
3/4/08 ZE	Blank See on Page #46			Q 5035	Prep Log Book		# BK 1860	
	201593-3 A	10.0	10.0	CT981	8260	58493		oil
3/12/08 ZE	Blank	10.0	10.0	CT981	8260	58493	0.010	
	201717-2 A	"						
	-3 B	5.0						oil
	201729-1 A							
	201831-1 B							
3/13/08 ZE	Blank	10.0	10.0	CT981	8260	58493	0.010	
	201831-2 B	1.0	10.0	"	"	"	"	Brought up to the volume
3/18/08 ZE	Blank	10.0	10.0	CT981	8260	58493	0.010	
	201958-1 D							
	-15							
	-16							
	201977-3 A							
	-4							
3/20/08 ZE	Blank	10.0	10.0	CT981	8260	58493	0.010	
	201967-1 B							oil
	-3							
	-4							
	201924-15 D							Reused 924-12
	-16							-13
	201958-10							
	-11							
	-12							
	-14							
3/21/08 ZE	Blank See on Page #47			Q 5035	Prep Log Book		# BK 1860	
	202010-1 A	10.0	10.0	CT981	8260	58493	0.010	
	-4	"	10.0	"	"	"	"	
3/25/08 ZE	Blank See on Page #48			Q 5035	Prep Log Book		# BK 1860	
	202105-5	10.0	10.0	CT981	8260	58493	0.010	

Continued on Page

Read and Understood By

ZE — Signed — 3/25/08 — Date — Signed — Date

BK1860

5035 Prep Log

Date & Initial	Sample ID	Soil wt. (g)	MeOH Vol (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
3/25/08 20	Blank	5.0	5.0	CT981	58493	0.005	
	202083-1B	7.2	7.2			0.0072	
	-2	5.8	5.8			0.0058	
	-5	5.8	5.8			0.0058	
	202089-1	5.7	5.7			0.0057	

Date & Initial	Sample ID	Soil wt. (g)	MeOH Vol. (ml)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
3/19/08 ZE	BLank	5.0	5.0	CT981	S8493	0.005	
	202007-9 B	4.3	4.3			0.0043	
	-10	4.3	4.3			0.0043	
	-11	5.9	5.9			0.0059	
3/24/08 ZE	BLank	5.0	5.0	CT981	S8493	0.005	
	20243-3 E	5.5	5.5			0.0055	
	Re 3/24/08 -4 C	5.8	5.8			0.0058	
	-7 C	6.6	6.6			0.0066	
	-8 D	4.7	4.7			0.0047	
	202010-2 B	8.7	5.0		S8493	0.005	Prepped by client
	-3 C	10.3					
	-5 A	10.0					
	-6	9.2					
	-7 C	8.4					
	-8 B	9.6					
3/24/08 ZE	BLank	5.0	5.0	CT981	S8493	0.005	
	202106-1 D	4.4	4.4			0.0044	
	-2 D	5.8	5.8			0.0058	
	-3 C	5.8	5.8			0.0058	
	-4 B	5.2	5.2			0.0052	
	-5	5.8	5.8			0.0058	
	-6	5.9	5.9			0.0059	
	-7 C	5.4	5.4			0.0054	
	-8	6.1	6.1			0.0061	
	-9	6.1	6.1			0.0061	
	-10	6.6	6.6			0.0066	
	-11	6.0	6.0			0.006	
	-12	6.1	6.1			0.0061	
	-13	5.9	5.9			0.0059	
	-14	6.2	6.2			0.0062	
	-15	5.9	5.9			0.0059	

Continued on Page

Read and Understood By

ZE — Signed

3/25/08 — Date

Signed

Date

48

PROJECT 5035 Prep Log

Notebook No. BK/860

Continued From Page

Date & Initial	Sample ID	soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments
3/25/0820	BLank	5.0	5.0	CT981	S8493	0.005	
	202083-1B	7.2	7.2			0.0072	
	-2	5.8	5.8			0.0058	
	-5	5.8	5.8			0.0058	
	202089-1	5.7	5.7			0.0057	
3/26/0820	BLANK	5.0	5.0	CT981	S8493	0.005	
	202124-1A	5.5	5.5			0.0055	
	-7	6.0	6.0			0.006	
	-11	5.7	5.7			0.0057	
3/27/0820	BLank	5.0	5.0	CT981	S8493	0.005	
	202207-1B	5.1	5.1			0.0051	

Continued on Page

Read and Understood By

Signed Date Signed Date

8270-SIM
Soil

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX315[5.0]	Batch#:	136441
Lab ID:	202203-001	Sampled:	03/26/08
Matrix:	Soil	Received:	03/26/08
Units:	ug/Kg	Prepared:	03/26/08
Basis:	dry	Analyzed:	03/27/08
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL	MDL
Naphthalene	3.9 J	5.9	1.1
2-Methylnaphthalene	3.5 J	5.9	0.96
Acenaphthylene	6.1	5.9	0.74
Acenaphthene	3.0 J	5.9	0.99
Fluorene	4.6 J	5.9	1.0
Phenanthrene	50	5.9	1.0
Anthracene	12	5.9	0.88
Fluoranthene	74	5.9	0.95
Pyrene	100	5.9	0.84
Benzo(a)anthracene	45	5.9	0.88
Chrysene	45	5.9	0.91
Benzo(b)fluoranthene	41	5.9	1.4
Benzo(k)fluoranthene	15	5.9	1.2
Benzo(a)pyrene	38	5.9	0.71
Indeno(1,2,3-cd)pyrene	26	5.9	0.99
Dibenz(a,h)anthracene	7.8	5.9	1.0
Benzo(g,h,i)perylene	31	5.9	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	91	23-120
2-Fluorobiphenyl	82	30-115
Terphenyl-d14	92	18-137

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

15.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC434788	Batch#:	136441
Matrix:	Soil	Prepared:	03/26/08
Units:	ug/Kg	Analyzed:	03/27/08
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.94
2-Methylnaphthalene	ND	5.0	0.82
Acenaphthylene	ND	5.0	0.63
Acenaphthene	ND	5.0	0.84
Fluorene	ND	5.0	0.85
Phenanthrene	ND	5.0	0.84
Anthracene	ND	5.0	0.74
Fluoranthene	ND	5.0	0.81
Pyrene	ND	5.0	0.71
Benzo(a)anthracene	ND	5.0	0.75
Chrysene	ND	5.0	0.77
Benzo(b)fluoranthene	ND	5.0	1.2
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	0.60
Indeno(1,2,3-cd)pyrene	ND	5.0	0.84
Dibenz(a,h)anthracene	ND	5.0	0.87
Benzo(g,h,i)perylene	ND	5.0	1.0

Surrogate	%REC	Limits
Nitrobenzene-d5	76	23-120
2-Fluorobiphenyl	79	30-115
Terphenyl-d14	84	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

16.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC434789	Batch#:	136441
Matrix:	Soil	Prepared:	03/26/08
Units:	ug/Kg	Analyzed:	03/27/08
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.23	29.11	88	31-137
Pyrene	33.23	27.64	83	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	92	23-120
2-Fluorobiphenyl	88	30-115
Terphenyl-d14	79	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX315[5.0]	Batch#:	136441
MSS Lab ID:	202203-001	Sampled:	03/26/08
Matrix:	Soil	Received:	03/26/08
Units:	ug/Kg	Prepared:	03/26/08
Basis:	dry	Analyzed:	03/27/08
Diln Fac:	1.000		

Type: MS Moisture: 16%
Lab ID: QC434790

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	3.042	39.35	32.99	76	31-137
Pyrene	103.7	39.35	85.74	-46 * P	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	90	23-120
2-Fluorobiphenyl	80	30-115
Terphenyl-d14	89	18-137

Type: MSD Moisture: 16%
Lab ID: QC434791

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	39.22	102.3	253 *	31-137	103 *	19
Pyrene	39.22	663.6 >LR b	1427 * P	35-142	NC	36

Surrogate	%REC	Limits
Nitrobenzene-d5	91	23-120
2-Fluorobiphenyl	83	30-115
Terphenyl-d14	87	18-137

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
b= See narrative
NC= Not Calculated
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528107208005.1 File : vce05 Time : 14-MAR-2008 12:55

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	200008	53.84	
68	< 2% of mass 69	0	0.00	
69		195968		
70	< 2% of mass 69	247	0.13	
127	40% - 60% of mass 198	190549	51.29	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	25749	6.93	
275	10% - 30% of mass 198	102864	27.69	
365	> 1% of mass 198	8269	2.23	
441	Present, < mass 443	49816	89.45	
442	> 40% and < 100% of mass 198	275264	74.09	
443	17% - 23% of mass 442	55693	20.23	

Analyst: JGM Date: 03/17/08 Reviewer: LLH Date: 03/21/08

528107208005.1

CURTIS & TOMPKINS DFTPP TUNE FOR 202203 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528124930003 File : vcq03 Time : 26-MAR-2008 22:41

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	225076	53.51	
68	< 2% of mass 69	0	0.00	
69		222332		
70	< 2% of mass 69	538	0.24	
127	40% - 60% of mass 198	227946	54.19	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	29904	7.11	
275	10% - 30% of mass 198	119477	28.40	
365	> 1% of mass 198	10103	2.40	
441	Present, < mass 443	71658	93.59	
442	> 40% and < 100% of mass 198	395242	93.96	
443	17% - 23% of mass 442	76565	19.37	

Analyst: LLH Date: 03/27/08 Reviewer: SHD Date: 03/27/08

528124930003

CURTIS & TOMPKINS DFTPP TUNE FOR 202203 MSSIM Soil
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528125892003 File : vcr03 Time : 27-MAR-2008 11:25

Standards: S7771

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	222985	54.44	
68	< 2% of mass 69	0	0.00	
69		210176		
70	< 2% of mass 69	364	0.17	
127	40% - 60% of mass 198	200725	49.01	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	27424	6.70	
275	10% - 30% of mass 198	103504	25.27	
365	> 1% of mass 198	9235	2.25	
441	Present, < mass 443	58696	99.24	
442	> 40% and < 100% of mass 198	309354	75.53	
443	17% - 23% of mass 442	59144	19.12	

Analyst: JAJ Date: 03/27/08 Reviewer: LLH Date: 03/28/08

528125892003

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 202203 MSSIM Soil: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528107208001
Units : ug/mL

Name : 3PAHSIM
Date : 14-MAR-2008 13:20
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vce06	528107208006	0.10/0.50UG/ML	14-MAR-2008 13:20	S8142
L2	vce07	528107208007	0.20/1.0UG/ML	14-MAR-2008 13:53	S8085
L3	vce08	528107208008	0.50/2.5UG/ML	14-MAR-2008 14:27	S8087
L4	vce09	528107208009	1.0/5.0UG/ML	14-MAR-2008 15:02	S8088
L5	vce10	528107208010	2.0/10UG/ML	14-MAR-2008 15:37	S8089
L6	vce11	528107208011	5.0/25UG/ML	14-MAR-2008 16:12	S8090
L7	vce12	528107208012	10/50UG/ML	14-MAR-2008 16:45	S8091

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.1171	1.1791	1.0537	1.0986	1.1106	1.1405	1.1470	AVRG		0.89209		1.1210	4	15	0.05	0.99	
2-Methylnaphthalene	0.7083	0.7870	0.7133	0.7531	0.7690	0.8059	0.8161	AVRG		1.30776		0.7647	6	15	0.05	0.99	
Acenaphthylene	1.3688	1.5616	1.4570	1.5884	1.6885	1.8058	1.8312	AVRG		0.61940		1.6145	11	15	0.05	0.99	
Acenaphthene	1.0073	1.1224	1.0093	1.0537	1.0755	1.1167	1.1234	AVRG		0.93229		1.0726	5	15	0.05	0.99	
Fluorene	1.1525	1.3253	1.2136	1.2958	1.3331	1.4219	1.4420	AVRG		0.76219		1.3120	8	15	0.05	0.99	
Phenanthrene	1.1253	1.2469	1.1203	1.1802	1.1969	1.2207	1.1747	AVRG		0.84694		1.1807	4	15	0.05	0.99	
Anthracene	0.9330	1.0725	1.0009	1.0992	1.1513	1.2071	1.1683	AVRG		0.91715		1.0903	9	15	0.05	0.99	
Fluoranthene	1.0645	1.2581	1.1517	1.2449	1.2873	1.3372	1.2930	AVRG		0.81050		1.2338	8	15	0.05	0.99	
Pyrene	1.2556	1.4216	1.2904	1.3644	1.3937	1.4250	1.4153	AVRG		0.73176		1.3666	5	15	0.05	0.99	
Benzo(a)anthracene	1.1163	1.2012	1.0766	1.1405	1.1818	1.2278	1.2105	AVRG		0.85840		1.1650	5	15	0.05	0.99	
Chrysene	1.1835	1.3009	1.1637	1.2130	1.2181	1.2298	1.1952	AVRG		0.82312		1.2149	4	15	0.05	0.99	
Benzo(b)fluoranthene	1.2521	1.3847	1.2620	1.3450	1.4279	1.4718	1.4483	AVRG		0.72979		1.3703	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.2273m	1.4212m	1.2867	1.3891	1.4060	1.4576	1.4187	AVRG		0.72866		1.3724	6	15	0.05	0.99	
Benzo(a)pyrene	1.0688	1.1518	1.0626	1.1486	1.2119	1.2850	1.2921	AVRG		0.85150		1.1744	8	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	0.7992	0.8950	0.8185	0.8915	0.9455	1.0392	1.0828	AVRG		1.08164		0.9245	11	15	0.05	0.99	
Dibenz(a,h)anthracene	0.6609	0.7420	0.6927	0.7497	0.7994	0.8803	0.9218	AVRG		1.28518		0.7781	12	15	0.05	0.99	
Benzo(g,h,i)perylene	0.7075	0.7792	0.7035	0.7470	0.7778	0.8425	0.8748	AVRG		1.28860		0.7760	8	15	0.05	0.99	
Nitrobenzene-d5	0.2683	0.2690	0.2470	0.2672	0.2892	0.3259	0.3445	AVRG		3.48082		0.2873	12	15	0.05	0.99	
2-Fluorobiphenyl	1.2786	1.3796	1.2325	1.2936	1.3052	1.3484	1.3344	AVRG		0.76317		1.3103	4	15	0.05	0.99	
Terphenyl-d14	0.9095	1.0551	0.9464	0.9935	1.0055	1.0229	0.9899	AVRG		1.01116		0.9890	5	15	0.05	0.99	

S9591

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.100	0	0.200	5	0.500	-6	1.000	-2	2.000	-1	5.000	2	10.00	2
2-Methylnaphthalene	0.100	-7	0.200	3	0.500	-7	1.000	-2	2.000	1	5.000	5	10.00	7
Acenaphthylene	0.100	-15	0.200	-3	0.500	-10	1.000	-2	2.000	5	5.000	12	10.00	13
Acenaphthene	0.100	-6	0.200	5	0.500	-6	1.000	-2	2.000	0	5.000	4	10.00	5
Fluorene	0.100	-12	0.200	1	0.500	-8	1.000	-1	2.000	2	5.000	8	10.00	10
Phenanthrene	0.100	-5	0.200	6	0.500	-5	1.000	0	2.000	1	5.000	3	10.00	-1
Anthracene	0.100	-14	0.200	-2	0.500	-8	1.000	1	2.000	6	5.000	11	10.00	7
Fluoranthene	0.100	-14	0.200	2	0.500	-7	1.000	1	2.000	4	5.000	8	10.00	5
Pyrene	0.100	-8	0.200	4	0.500	-6	1.000	0	2.000	2	5.000	4	10.00	4
Benzo(a)anthracene	0.100	-4	0.200	3	0.500	-8	1.000	-2	2.000	1	5.000	5	10.00	4
Chrysene	0.100	-3	0.200	7	0.500	-4	1.000	0	2.000	0	5.000	1	10.00	-2
Benzo(b)fluoranthene	0.100	-9	0.200	1	0.500	-8	1.000	-2	2.000	4	5.000	7	10.00	6
Benzo(k)fluoranthene	0.100	-11	0.200	4	0.500	-6	1.000	1	2.000	2	5.000	6	10.00	3
Benzo(a)pyrene	0.100	-9	0.200	-2	0.500	-10	1.000	-2	2.000	3	5.000	9	10.00	10
Indeno(1,2,3-cd)pyrene	0.100	-14	0.200	-3	0.500	-11	1.000	-4	2.000	2	5.000	12	10.00	17
Dibenz(a,h)anthracene	0.100	-15	0.200	-5	0.500	-11	1.000	-4	2.000	3	5.000	13	10.00	18
Benzo(g,h,i)perylene	0.100	-9	0.200	0	0.500	-9	1.000	-4	2.000	0	5.000	9	10.00	13
Nitrobenzene-d5	0.100	-7	0.200	-6	0.500	-14	1.000	-7	2.000	1	5.000	13	10.00	20
2-Fluorobiphenyl	0.100	-2	0.200	5	0.500	-6	1.000	-1	2.000	0	5.000	3	10.00	2
Terphenyl-d14	0.100	-8	0.200	7	0.500	-4	1.000	0	2.000	2	5.000	3	10.00	0

JGM 03/14/08 : Manual integrations for tailing compounds.

Analyst: JGM Date: 03/14/08 Reviewer: LW Date: 03/17/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 202203 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Name : 3PAHSIM
Calnum : 528107208001 Cal Date : 14-MAR-2008

ICV 528107208013 (vce13 14-MAR-2008) stds: S8092

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.1210	1.1565	1.000	1.032	ug/mL	3	20	
2-Methylnaphthalene	0.7647	0.8308	1.000	1.087	ug/mL	9	20	
Acenaphthylene	1.6145	1.6494	1.000	1.022	ug/mL	2	20	
Acenaphthene	1.0726	1.1003	1.000	1.026	ug/mL	3	20	
Fluorene	1.3120	1.3617	1.000	1.038	ug/mL	4	20	
Phenanthrene	1.1807	1.2484	1.000	1.057	ug/mL	6	20	
Anthracene	1.0903	1.0620	1.000	0.9740	ug/mL	-3	20	
Fluoranthene	1.2338	1.3229	1.000	1.072	ug/mL	7	20	
Pyrene	1.3666	1.4027	1.000	1.026	ug/mL	3	20	
Benzo(a)anthracene	1.1650	1.2162	1.000	1.044	ug/mL	4	20	
Chrysene	1.2149	1.2635	1.000	1.040	ug/mL	4	20	
Benzo(b)fluoranthene	1.3703	1.4568	1.000	1.063	ug/mL	6	20	
Benzo(k)fluoranthene	1.3724	1.3790	1.000	1.005	ug/mL	0	20	
Benzo(a)pyrene	1.1744	1.1799	1.000	1.005	ug/mL	0	20	
Indeno(1,2,3-cd)pyrene	0.9245	0.9944	1.000	1.076	ug/mL	8	20	
Dibenz(a,h)anthracene	0.7781	0.8102	1.000	1.041	ug/mL	4	20	
Benzo(g,h,i)perylene	0.7760	0.8024	1.000	1.034	ug/mL	3	20	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202203 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 0.5/2.5UG/ML IDF : 1.0
Seqnum : 528124930004.2 File : vcq04 Time : 26-MAR-2008 23:03
Cal : 528107208001 Caldate : 14-MAR-2008
Standards: S8087

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1210	1.0246	0.5000	0.4570	ug/mL	-9	20	0.0500	
2-Methylnaphthalene	0.7647	0.6939	0.5000	0.4538	ug/mL	-9	20	0.0500	
Acenaphthylene	1.6145	1.4683	0.5000	0.4547	ug/mL	-9	20	0.0500	
Acenaphthene	1.0726	1.0177	0.5000	0.4744	ug/mL	-5	20	0.0500	
Fluorene	1.3120	1.2323	0.5000	0.4696	ug/mL	-6	20	0.0500	
Phenanthrene	1.1807	1.1597	0.5000	0.4911	ug/mL	-2	20	0.0500	
Anthracene	1.0903	1.0592	0.5000	0.4857	ug/mL	-3	20	0.0500	m
Fluoranthene	1.2338	1.1776	0.5000	0.4772	ug/mL	-5	20	0.0500	
Pyrene	1.3666	1.2322	0.5000	0.4508	ug/mL	-10	20	0.0500	
Benzo(a)anthracene	1.1650	1.0624	0.5000	0.4560	ug/mL	-9	20	0.0500	
Chrysene	1.2149	1.1540	0.5000	0.4750	ug/mL	-5	20	0.0500	
Benzo(b)fluoranthene	1.3703	1.2580	0.5000	0.4590	ug/mL	-8	20	0.0500	
Benzo(k)fluoranthene	1.3724	1.3064	0.5000	0.4759	ug/mL	-5	20	0.0500	
Benzo(a)pyrene	1.1744	1.0774	0.5000	0.4587	ug/mL	-8	20	0.0500	
Indeno(1,2,3-cd)pyrene	0.9245	0.7118	0.5000	0.3849	ug/mL	**-23**	20	0.0500	c- ***
Dibenz(a,h)anthracene	0.7781	0.6036	0.5000	0.3879	ug/mL	**-22**	20	0.0500	c- ***
Benzo(g,h,i)perylene	0.7760	0.6009	0.5000	0.3871	ug/mL	**-23**	20	0.0500	c- ***
Nitrobenzene-d5	0.2873	0.2470	0.5000	0.4298	ug/mL	-14	20	0.0500	
2-Fluorobiphenyl	1.3103	1.1988	0.5000	0.4574	ug/mL	-9	20	0.0500	
Terphenyl-d14	0.9890	0.8696	0.5000	0.4397	ug/mL	-12	20	0.0500	

Analyst: JAJ Date: 04/01/08 Reviewer: SHD Date: 04/01/08

-=low bias c=CCV m=manual integration

528124930004.2

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 202203 MSSIM Soil
EPA 8270C-SIM

Inst : MSBNA03 Run Name : 2/10UG/ML IDF : 1.0
Seqnum : 528125892004.3 File : vcr04 Time : 27-MAR-2008 11:48
Cal : 528107208001 Caldate : 14-MAR-2008
Standards: S8089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.1210	1.0923	2.000	1.949	ug/mL	-3	20	0.0500	
2-Methylnaphthalene	0.7647	0.7283	2.000	1.905	ug/mL	-5	20	0.0500	
Acenaphthylene	1.6145	1.8181	2.000	2.252	ug/mL	13	20	0.0500	
Acenaphthene	1.0726	1.0686	2.000	1.993	ug/mL	0	20	0.0500	
Fluorene	1.3120	1.3226	2.000	2.016	ug/mL	1	20	0.0500	
Phenanthrene	1.1807	1.2139	2.000	2.056	ug/mL	3	20	0.0500	
Anthracene	1.0903	1.2013	2.000	2.204	ug/mL	10	20	0.0500	
Fluoranthene	1.2338	1.3338	2.000	2.162	ug/mL	8	20	0.0500	
Pyrene	1.3666	1.4282	2.000	2.090	ug/mL	5	20	0.0500	
Benzo(a)anthracene	1.1650	1.2234	2.000	2.100	ug/mL	5	20	0.0500	
Chrysene	1.2149	1.2276	2.000	2.021	ug/mL	1	20	0.0500	
Benzo(b)fluoranthene	1.3703	1.4035	2.000	2.048	ug/mL	2	20	0.0500	
Benzo(k)fluoranthene	1.3724	1.3796	2.000	2.011	ug/mL	1	20	0.0500	
Benzo(a)pyrene	1.1744	1.1869	2.000	2.021	ug/mL	1	20	0.0500	
Indeno(1,2,3-cd)pyrene	0.9245	0.9113	2.000	1.971	ug/mL	-1	20	0.0500	
Dibenz(a,h)anthracene	0.7781	0.7357	2.000	1.891	ug/mL	-5	20	0.0500	
Benzo(g,h,i)perylene	0.7760	0.7606	2.000	1.960	ug/mL	-2	20	0.0500	
Nitrobenzene-d5	0.2873	0.3032	2.000	2.111	ug/mL	6	20	0.0500	
2-Fluorobiphenyl	1.3103	1.2958	2.000	1.978	ug/mL	-1	20	0.0500	
Terphenyl-d14	0.9890	0.9824	2.000	1.987	ug/mL	-1	20	0.0500	

Analyst: JAJ Date: 04/01/08 Reviewer: SHD Date: 04/01/08

528125892004.3

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528124930

Date : 03/26/08
Sequence : MSBNA03 vcq

Reference : vcq04
Analyzed : 03/26/08 23:03

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	59060	7.56	202113	9.19	149273	11.49	244918	13.44	243073	16.89	196059	18.62
		LOWER LIMIT	29530	7.06	101057	8.69	74637	10.99	122459	12.94	121537	16.39	98030	18.12
		UPPER LIMIT	118120	8.06	404226	9.69	298546	11.99	489836	13.94	486146	17.39	392118	19.12
004	CCV	0.5/2.5UG/ML	59060	7.56	202113	9.19	149273	11.49	244918	13.44	243073	16.89	196059	18.62
005	BLANK	QC434788	53718	7.56	181796	9.19	137048	11.49	244673	13.44	236041	16.89	195093	18.62
006	LCS	QC434789	46533	7.56	157985	9.19	120988	11.49	215349	13.44	218852	16.89	183536	18.62
007	SAMPLE	202194-001	54443	7.57	185783	9.19	141545	11.49	255414	13.44	169589	16.90	123971	18.63
008	SAMPLE	202087-003	49785	7.57	157306	9.19	126064	11.50	230498	13.44	175018	16.90	142240	18.63
009	SAMPLE	202118-001	49647	7.57	170194	9.19	106165	11.50	202912	13.44	185151	16.89	156059	18.62

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528125892

Date : 03/27/08
Sequence : MSBNA03 vcr

Reference : vcr04
Analyzed : 03/27/08 11:48

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	71371	7.56	237909	9.19	161961	11.49	260045	13.44	248406	16.89	203243	18.62
		LOWER LIMIT	35686	7.06	118955	8.69	80981	10.99	130023	12.94	124203	16.39	101622	18.12
		UPPER LIMIT	142742	8.06	475818	9.69	323922	11.99	520090	13.94	496812	17.39	406486	19.12
004	CCV	2/10UG/ML	71371	7.56	237909	9.19	161961	11.49	260045	13.44	248406	16.89	203243	18.62
005	LCS	QC430549	58913	7.56	195957	9.19	142349	11.49	251297	13.44	266607	16.89	232753	18.62
006	SAMPLE	202194-001	51323	7.56	173416	9.19	125603	11.49	227213	13.44	165387	16.89	128513	18.62
007	SAMPLE	202097-005	50418	7.56	173071	9.18	127173	11.49	229870	13.44	202209	16.89	163884	18.62
008	SAMPLE	202097-007	51344	7.56	177735	9.19	130109	11.49	238232	13.44	228453	16.89	202289	18.62
009	SAMPLE	202097-008	50538	7.56	174736	9.19	112986	11.49	219238	13.44	209988	16.89	192252	18.62
010	SAMPLE	202097-003	55800	7.56	190834	9.19	138937	11.49	247835	13.44	222884	16.89	182735	18.62
011	SAMPLE	202097-006	55715	7.56	191804	9.19	135916	11.49	224310	13.44	157775	16.90	146109	18.62
012	MSS	202203-001	51803	7.56	181779	9.19	131460	11.49	228875	13.44	156551	16.89	135511	18.63
013	MS	QC434790	54684	7.56	192342	9.19	138535	11.49	237081	13.44	158405	16.89	137816	18.63
014	MSD	QC434791	51743	7.56	184234	9.19	131297	11.49	236130	13.44	173287	16.90	148273	18.63

00097

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528107208

Instrument : MSBNA03 Begun : 03/14/08 10:48
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vce01	TUN	DFTPP/PEM 50UG/ML			03/14/08 10:48	1.0	1	
002	vce02	TUN	DFTPP/PEM 50UG/ML			03/14/08 11:19	1.0	1	
003	vce03	TUN	DFTPP/PEM 50UG/ML			03/14/08 11:45	1.0	1	
004	vce04	TUN	DFTPP/PEM 50UG/ML			03/14/08 12:13	1.0	1	
005	vce05	TUN	DFTPP/PEM 50UG/ML			03/14/08 12:55	1.0	1	
006	vce06	ICAL	0.10/0.50UG/ML			03/14/08 13:20	1.0	2	
007	vce07	ICAL	0.20/1.0UG/ML			03/14/08 13:53	1.0	3	
008	vce08	ICAL	0.50/2.5UG/ML			03/14/08 14:27	1.0	4	
009	vce09	ICAL	1.0/5.0UG/ML			03/14/08 15:02	1.0	5	
010	vce10	ICAL	2.0/10UG/ML			03/14/08 15:37	1.0	6	
011	vce11	ICAL	5.0/25UG/ML			03/14/08 16:12	1.0	7	
012	vce12	ICAL	10/50UG/ML			03/14/08 16:45	1.0	8	
013	vce13	ICV	1.0/10UG/ML			03/14/08 17:20	1.0	9	

Analyst: JGM Date: 03/14/08 Reviewer: LW Date: 03/17/08

Standards used: 1=S7771 2=S8142 3=S8085 4=S8087 5=S8088 6=S8089 7=S8090 8=S8091 9=S8092

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528124930

Instrument : MSBNA03 Begun : 03/26/08 18:10
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	vcq01	TUN	DFTPP/PEM 50UG/ML			03/26/08 18:10	1.0	1
002	vcq02	CCV	0.5/2.5UG/ML			03/26/08 18:31	1.0	2
003	vcq03	TUN	DFTPP/PEM 50UG/ML			03/26/08 22:41	1.0	1
004	vcq04	CCV	0.5/2.5UG/ML			03/26/08 23:03	1.0	2
005	vcq05	BLANK	QC434788	Soil	136441	03/27/08 00:20	1.0	3
006	vcq06	LCS	QC434789	Soil	136441	03/27/08 00:54	1.0	3
007	vcq07	SAMPLE	202194-001	Soil	136441	03/27/08 01:29	5.0	3
008	vcq08	SAMPLE	202087-003	Water	136279	03/27/08 02:03	2.0	3
009	vcq09	SAMPLE	202118-001	Water	136279	03/27/08 02:37	3.0	3

Standards used: 1=S7771 2=S8087 3=S8540

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528125892

Instrument : MSBNA03 Begun : 03/27/08 10:12
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vcr01	TUN	DFTPP/PEM 50UG/ML			03/27/08 10:12	1.0	1	
002	vcr02	CCV	2/10UG/ML			03/27/08 10:49	1.0	2	
003	vcr03	TUN	DFTPP/PEM 50UG/ML			03/27/08 11:25	1.0	1	
004	vcr04	CCV	2/10UG/ML			03/27/08 11:48	1.0	2	
005	vcr05	LCS	QC430549	Soil	135391	03/27/08 12:30	1.0	3	
006	vcr06	SAMPLE	202194-001	Soil	136441	03/27/08 13:05	5.0	3	
007	vcr07	SAMPLE	202097-005	Soil	136441	03/27/08 13:39	1.0	3	
008	vcr08	SAMPLE	202097-007	Soil	136441	03/27/08 14:13	1.0	3	
009	vcr09	SAMPLE	202097-008	Soil	136441	03/27/08 14:47	1.0	3	
010	vcr10	SAMPLE	202097-003	Soil	136441	03/27/08 15:21	1.0	3	
011	vcr11	SAMPLE	202097-006	Soil	136441	03/27/08 15:56	1.0	3	
012	vcr12	MSS	202203-001	Soil	136441	03/27/08 16:30	1.0	3	
013	vcr13	MS	QC434790	Soil	136441	03/27/08 17:04	1.0	3	
014	vcr14	MSD	QC434791	Soil	136441	03/27/08 17:39	1.0	3	3:PYR=17
015	vcr15	TUN	DFTPP/PEM 50UG/ML			03/27/08 20:58	1.0	1	
016	vcr16	CCV	2/10UG/ML			03/27/08 21:24	1.0	2	
017	vcr17	BLANK	QC434742	Water	136426	03/27/08 22:11	1.0	3	
018	vcr18	LCS	QC434743	Water	136426	03/27/08 22:46	1.0	3	
019	vcr19	SAMPLE	202164-001	Water	136426	03/27/08 23:21	1.0	3	
020	vcr20	SAMPLE	202164-002	Water	136426	03/27/08 23:57	1.0	3	
021	vcr21	SAMPLE	202164-003	Water	136426	03/28/08 00:31	1.0	3	
022	vcr22	SAMPLE	202164-004	Water	136426	03/28/08 01:08	1.0	3	
023	vcr23	MSS	202164-005	Water	136426	03/28/08 01:42	1.0	3	
024	vcr24	SAMPLE	202164-006	Water	136426	03/28/08 02:16	1.0	3	
025	vcr25	SAMPLE	202179-001	Water	136426	03/28/08 02:51	1.0	3	
026	vcr26	SAMPLE	202179-002	Water	136426	03/28/08 03:26	1.0	3	
027	vcr27	SAMPLE	202149-001	Water	136426	03/28/08 04:00	1.0	3	
028	vcr28	SAMPLE	202149-002	Water	136426	03/28/08 04:34	5.0	3	
029	vcr29	SAMPLE	202179-003	Water	136426	03/28/08 05:11	5.0	3	2:MTNPH1=14
030	vcr30	SAMPLE	202179-004	Water	136426	03/28/08 05:45	5.0	3	
031	vcr31	SAMPLE	202146-005	Water	136426	03/28/08 06:19	1.0	3	
032	vcr32	SAMPLE	202146-006	Water	136426	03/28/08 06:56	1.0	3	
033	vcr33	SAMPLE	202146-007	Water	136426	03/28/08 07:30	1.0	3	
034	vcr34	SAMPLE	202146-008	Water	136426	03/28/08 08:08	1.0	3	
035	vcr35	SAMPLE	202146-009	Water	136426	03/28/08 08:44	1.0	3	

Standards used: 1=S7771 2=S8089 3=S8540

SAMPLE PREPARATION SUMMARY

Batch # : 136441
Started By : DJT
Method : 3550B
Spike #1 ID : S8575
Prep Date : 26-MAR-2008
SOP Version : 8270_SIM_rv1
Spike #2 ID : S8508
Analysis : 8270-SIM
Finished By : DJT
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
202097-003		Soil	30.02	1	1	0.03331		1				8270-SIM	
202097-005		Soil	30.18	1	1	0.03313		1				8270-SIM	
202097-006		Soil	30.16	1	1	0.03316		1				8270-SIM	
202097-007		Soil	30.03	1	1	0.0333		1				8270-SIM	
202097-008		Soil	30.11	1	1	0.03321		1				8270-SIM	
202194-001		Soil	30.35	1	1	0.03295		1				8270-SIM	See comment 1 below
202203-001		Soil	30.37	1	1	0.03293		1				8270-SIM	mss
QC434788	BLANK	Soil	30.11	1	1	0.03321		1				8270-SIM	
QC434789	LCS	Soil	30.09	1	1	0.03323		1	1			8270-SIM	
QC434790	MS	Soil	30.25	1	1	0.03306		1	1			8270-SIM	
QC434791	MSD	Soil	30.35	1	1	0.03295		1	1			8270-SIM	

Comment 1: loose microsnyder(poss loss surr)

LLH 03/27/08 : reviewed paperwork

JAJ 03/28/08 : MS/MSD non-homogeneous.

Analyst: JAJ Date: 03/28/08 Reviewer: JGM Date: 03/28/08

BNA Soil Prep Log

Curtis & Tompkins, Ltd.

Page: 47 **BK2665**

LIMS Batch No: 136441
LIMS Analysis 8270-SIM
Date Extracted: 3/26/08

Extraction Method:
☒ EPA 3550b Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ Other _____

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
202097-003	E	30.02	1.0		
005		30.18			
006		30.16			
007		30.03			
008		30.11			
202194-001	A	30.35			LOOSE MICROSNYDER (PDS LOSS SURR)
202203-001	M	30.37			MSS
MB QC434788		30.11			
LCS 89		30.09			
MS 90		30.25			
MSD 91		30.35			

DST 3/26/08

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, CH_2Cl_2-rinsed granular Na_2SO_4 used for QC & to dry samples	EM47281748/EM47281804	DST 3/24/08
1.0 mL of surrogate solution was added to all samples	S8575B	
1.0 mL of matrix spiking solution was added to all spikes	S8508A	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM48045	
Acetone	EM47190	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM47281804	
Concentrated to final volume at temperature (degrees C)	70°	
Relinquished to BNA department	✓	

3/26/08
Extraction Chemist / Date

Continued from page _____
Continued on page 1

3/27/08
Reviewed by / Date

Project SOIL ALIQUOT BK2007

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	BATCH #	COMMENTS
202097-003 E	30.02	8270-SIM	136441	
005	30.18			
006	30.16			
007	30.03			
008	30.11			
202194-001 A	30.35			
202203-001 M	30.37			
MB	30.11			
LCS	30.09			
MS	30.25			
MSD	30.35			
202119-009	30.25	8270	MSS	COMP 001A-004A @25.00g ea
MB	30.05			
LCS	30.21			
MS	30.08			
MSD	30.29			

MSS
EM477281748
↓
202203-001M
↓
EM477281748
↓
202119-009
↓

DOS 3/26/08

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd.

Metals
(Soil)

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	202203	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX315[5.0]	Basis:	dry
Lab ID:	202203-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/26/08
Units:	mg/Kg	Received:	03/26/08

Moisture: 16%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.60	0.10	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Arsenic	3.5	0.33	0.11	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Barium	86	0.30	0.025	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Beryllium	0.30	0.12	0.0027	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Cadmium	0.22 J	0.30	0.027	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Chromium	64	0.30	0.033	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Cobalt	8.9	0.30	0.024	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Copper	24	0.33	0.11	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Lead	69	0.21	0.071	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Mercury	0.12	0.024	0.0050	136511	03/28/08	03/28/08	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.058	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Nickel	53	0.30	0.027	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.054	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.065	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.098	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Vanadium	50	0.30	0.034	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B
Zinc	77	1.2	0.041	136492	03/27/08	03/31/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

6.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC435023	Batch#:	136492
Matrix:	Soil	Prepared:	03/27/08
Units:	mg/Kg	Analyzed:	03/31/08
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.087
Arsenic	ND	0.29	0.096
Barium	ND	0.25	0.022
Beryllium	ND	0.10	0.0024
Cadmium	ND	0.25	0.024
Chromium	ND	0.25	0.029
Cobalt	ND	0.25	0.021
Copper	ND	0.29	0.096
Lead	ND	0.19	0.062
Molybdenum	ND	0.25	0.051
Nickel	ND	0.25	0.024
Selenium	ND	0.50	0.047
Silver	ND	0.25	0.057
Thallium	ND	0.50	0.086
Vanadium	ND	0.25	0.030
Zinc	ND	1.0	0.036

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC435103	Batch#:	136511
Matrix:	Soil	Prepared:	03/28/08
Units:	mg/Kg	Analyzed:	03/28/08

Result	RL	MDL
ND	0.020	0.0052

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

8.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	136492
Units:	mg/Kg	Prepared:	03/27/08
Basis:	as received	Analyzed:	03/31/08
Diln Fac:	1.000		

Type: BS Lab ID: QC435024

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	102.4	102	75-125
Arsenic	50.00	50.53	101	75-125
Barium	100.0	98.78	99	75-125
Beryllium	2.500	2.411	96	75-125
Cadmium	10.00	10.26	103	75-125
Chromium	100.0	97.87	98	75-125
Cobalt	25.00	23.97	96	75-125
Copper	12.50	12.13	97	75-125
Lead	100.0	98.42	98	75-125
Molybdenum	20.00	21.35	107	75-125
Nickel	25.00	24.11	96	75-125
Selenium	50.00	49.90	100	75-125
Silver	10.00	9.015	90	75-125
Thallium	50.00	49.70	99	75-125
Vanadium	25.00	24.39	98	75-125
Zinc	25.00	24.28	97	75-125

Type: BSD Lab ID: QC435025

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	93.92	94	75-125	9	30
Arsenic	50.00	46.63	93	75-125	8	30
Barium	100.0	92.99	93	75-125	6	30
Beryllium	2.500	2.266	91	75-125	6	30
Cadmium	10.00	9.418	94	75-125	9	30
Chromium	100.0	92.07	92	75-125	6	30
Cobalt	25.00	22.04	88	75-125	8	30
Copper	12.50	11.25	90	75-125	8	30
Lead	100.0	90.25	90	75-125	9	30
Molybdenum	20.00	19.50	98	75-125	9	30
Nickel	25.00	22.08	88	75-125	9	30
Selenium	50.00	45.53	91	75-125	9	30
Silver	10.00	8.410	84	75-125	7	30
Thallium	50.00	45.52	91	75-125	9	30
Vanadium	25.00	22.92	92	75-125	6	30
Zinc	25.00	23.03	92	75-125	5	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	136511
Units:	mg/Kg	Prepared:	03/28/08
Basis:	as received	Analyzed:	03/28/08

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC435104	0.5000	0.5130	103	75-125		
BSD	QC435105	0.5000	0.5220	104	75-125	2	35

RPD= Relative Percent Difference

12.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX315[5.0]	Batch#:	136492
MSS Lab ID:	202203-001	Sampled:	03/26/08
Matrix:	Soil	Received:	03/26/08
Units:	mg/Kg	Prepared:	03/27/08
Basis:	dry	Analyzed:	03/31/08
Diln Fac:	1.000		

Type: MS Moisture: 16%
Lab ID: QC435026

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.09980	113.4	61.90	55 *	75-125
Arsenic	3.531	56.69	54.77	90	75-125
Barium	85.67	113.4	190.6	93	75-125
Beryllium	0.2976	2.834	2.848	90	75-125
Cadmium	0.2235	11.34	10.64	92	75-125
Chromium	63.72	113.4	165.1	89	75-125
Cobalt	8.901	28.34	32.43	83	75-125
Copper	23.72	14.17	201.4	1254 * P	75-125
Lead	69.49	113.4	231.9	143 *	75-125
Molybdenum	<0.05811	22.68	20.91	92	75-125
Nickel	53.16	28.34	72.28	67 * P	75-125
Selenium	<0.05395	56.69	45.42	80	75-125
Silver	<0.06544	11.34	9.857	87	75-125
Thallium	<0.09800	56.69	47.24	83	75-125
Vanadium	50.16	28.34	78.14	99 P	75-125
Zinc	77.02	28.34	338.7	923 * P	75-125

Type: MSD Moisture: 16%
Lab ID: QC435027

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	109.2	57.26	52 *	75-125	4	30
Arsenic	54.61	49.44	84	75-125	7	30
Barium	109.2	179.0	85	75-125	4	30
Beryllium	2.730	2.652	86	75-125	4	30
Cadmium	10.92	9.493	85	75-125	8	30
Chromium	109.2	140.0	70 *	75-125	14	30
Cobalt	27.30	28.87	73 *	75-125	9	30
Copper	13.65	111.2	641 * P	75-125	56 *	30
Lead	109.2	154.9	78	75-125	38 *	30
Molybdenum	21.84	18.49	85	75-125	9	30
Nickel	27.30	66.59	49 * P	75-125	7	30
Selenium	54.61	40.32	74 *	75-125	8	30
Silver	10.92	8.857	81	75-125	7	30
Thallium	54.61	42.72	78	75-125	6	30
Vanadium	27.30	70.47	74 * P	75-125	9	30
Zinc	27.30	105.7	105 P	75-125	104 *	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

10.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	1065EX315[5.0]	Batch#:	136511
MSS Lab ID:	202203-001	Sampled:	03/26/08
Matrix:	Soil	Received:	03/26/08
Units:	mg/Kg	Prepared:	03/28/08
Basis:	dry	Analyzed:	03/28/08

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC435107	0.1181	0.4509	0.5925	105	75-125	16%		
MSD	QC435108		0.5315	0.6728	104	75-125	16%	1	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX315[5.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	202203-001	Batch#:	136492
Lab ID:	QC435028	Sampled:	03/26/08
Matrix:	Soil	Received:	03/26/08
Units:	mg/Kg	Analyzed:	03/31/08

Moisture: 16%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	ND	0.5952	ND	1.497	NC	10
Arsenic	3.531	0.3296	3.253	1.648	NC	10
Barium	85.67	0.2976	87.26	1.431	2	10
Beryllium	0.2976	0.1190	0.2417 J	0.5723	19 *	10
Cadmium	0.2235	0.2976	0.1713 J	1.431	NC	10
Chromium	63.72	0.2976	64.58	1.431	1	10
Cobalt	8.901	0.2976	9.259	1.431	4	10
Copper	23.72	0.3298	23.44	1.649	1	10
Lead	69.49	0.2124	72.61	1.062	4	10
Molybdenum	ND	0.2976	ND	1.431	NC	10
Nickel	53.16	0.2976	53.62	1.431	1	10
Selenium	ND	0.5952	ND	1.431	NC	10
Silver	ND	0.2976	ND	1.431	NC	10
Thallium	ND	0.5952	ND	1.470	NC	10
Vanadium	50.16	0.2976	50.00	1.431	0	10
Zinc	77.02	1.190	77.72	5.723	1	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

11.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	1065EX315[5.0]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	136511
MSS Lab ID:	202203-001	Sampled:	03/26/08
Lab ID:	QC435106	Received:	03/26/08
Matrix:	Soil	Analyzed:	03/28/08
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
0.1181	0.02381	0.06879 J	0.09758	16%	NC	10

J= Estimated value
NC= Not Calculated
RL= Reporting Limit

13.0

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum : 98131640014
File : 033108r
IDF : 1.0
Lab ID : 202203-001
Matrix : Soil
Batch : 136492
Time : 31-MAR-2008 11:14
Cal : 98131640001
Units : ug/L

Type : PDS
Inst : MET09
Seqnum : 98131640018
File : 033108r
IDF : 1.0
Lab ID : QC435029
Matrix : Soil
Batch : 136492
Time : 31-MAR-2008 11:26
Cal : 98131640001

MSS: 1.04 g --> 50.0 ml = 48.08 ml/g PDF
PDS: 1.04 g --> 50.0 ml = 48.08 ml/g PDF

PDS standards: S8385 (100X), S8386 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Antimony	ND	A	2000	1812	A	91	75-125	!<a- u
Arsenic	61.69	A	1000	929.1	A	87	75-125	u **y**
Barium	1497	A	2000	3253	A	88	75-125	!>ib u
Beryllium	5.199	A	50.00	49.73	A	89	75-125	!<a+ u
Cadmium	3.905	A	200.0	181.7	A	89	75-125	!<a- !<ib !>ib u
Calcium	83280	R	20000	110200 >LR	R	135	75-125	: >LR u
Chromium	1113	A	2000	2849	A	87	75-125	u
Cobalt	155.5	A	500.0	552.8	A	79	75-125	!<a+ !<ib !>ib u
Copper	414.5	A	250.0	629.6	A	86	75-125	u
Lead	1214	A	2000	2774	A	78	75-125	!<a+ u
Manganese	4665	A	500.0	4868	A	41	75-125	: u
Molybdenum	ND	A	400.0	380.8	A	95	75-125	!<a+ !<ib !>ib u
Nickel	928.8	A	500.0	1290	A	**72***	75-125	u
Potassium	12590	R	10000	23860	R	113	75-125	!<a+ u
Selenium	ND	A	1000	791.2	A	79	75-125	!<a- u
Silver	ND	A	200.0	172.4	A	86	75-125	!<a+ u
Thallium	ND	A	1000	832.8	A	83	75-125	u
Vanadium	876.4	A	500.0	1293	A	83	75-125	u
Zinc	1346	A	500.0	1692	A	**69***	75-125	!<a- u
Boron	341.5	A	1000	1263	A	92	75-125	!<a+ !<ib !>ib u
Tin	36.81	A	1000	912.9	A	88	75-125	!<a- u

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3646058	3375367	-7.42

MISSING READINGS: **MG NA**

!=warning +=high bias -=low bias :=recovery not meaningful <=opening >=closing >LR=overrange a=ICSA ib=instrument blank
u=use y=RL raised

98131640018

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 202203 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
202203-001	MET14	03/28/08 15:49	1.0										+							
202203-001	MET09	03/31/08 11:14	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC435023	MET09	03/31/08 11:05	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC435024	MET09	03/31/08 11:09	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC435025	MET09	03/31/08 11:11	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC435026	MET09	03/31/08 11:16	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC435027	MET09	03/31/08 11:20	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC435028	MET09	03/31/08 11:23	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC435029	MET09	03/31/08 11:26	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC435103	MET14	03/28/08 15:43	1.0										+							
QC435104	MET14	03/28/08 15:45	1.0										+							
QC435105	MET14	03/28/08 15:47	1.0										+							
QC435106	MET14	03/28/08 15:51	5.0										+							
QC435107	MET14	03/28/08 15:54	1.0										+							
QC435108	MET14	03/28/08 15:56	1.0										+							

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98131640 Instrument: MET09 PE ICP MET09 Begun: 31-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	033108r	ICALBLK				31-MAR-2008 10:00	1.0	1.0				
002	033108r	ICAL	CRIM08			31-MAR-2008 10:04	1.0	1.0			1	
003	033108r	ICAL	CS100			31-MAR-2008 10:09	1.0	1.0			2	
004	033108r	ICAL	CS1K			31-MAR-2008 10:12	1.0	1.0			3	
005	033108r	ICAL	CS10K			31-MAR-2008 10:14	1.0	1.0			4	
006	033108r	ICAL	CS100K			31-MAR-2008 10:19	1.0	1.0			5	
007	033108r	ICV				31-MAR-2008 10:27	1.0	1.0		5000	6	
008	033108r	ICB				31-MAR-2008 10:36	1.0	1.0		5000		
009	033108r	ICSA				31-MAR-2008 10:40	1.0	1.0		5000	7	10:MG=583447
010	033108r	ICSAB				31-MAR-2008 10:48	1.0	1.0		5000	8	5:MG=522533
011	033108r	BLANK	QC435023	136492	Soil	31-MAR-2008 11:05	1.0	50.0		5000		
012	033108r	BS	QC435024	136492	Soil	31-MAR-2008 11:09	1.0	50.0	3	5000		
013	033108r	BSD	QC435025	136492	Soil	31-MAR-2008 11:11	1.0	50.0	3	5000		
014	033108r	MSS	202203-001	136492	Soil	31-MAR-2008 11:14	1.0	48.08	5	5000		3:FE=336118
015	033108r	MS	QC435026	136492	Soil	31-MAR-2008 11:16	1.0	47.62	3	5000		4:FE=370828
016	033108r	MSD	QC435027	136492	Soil	31-MAR-2008 11:20	1.0	45.87	4	5000		5:FE=374210
017	033108r	SER	QC435028	136492	Soil	31-MAR-2008 11:23	5.0	48.08	2	5000		
018	033108r	PDS	QC435029	136492	Soil	31-MAR-2008 11:26	1.0	48.08	2	5000	9 10	5:FE=378228
019	033108r	X				31-MAR-2008 11:28	1.0				11	
020	033108r	X				31-MAR-2008 11:30	1.0	1.0	1	5000	11	
021	033108r	CCV				31-MAR-2008 11:33	1.0	1.0	3	5000	11	
022	033108r	X				31-MAR-2008 11:37	1.0					
023	033108r	CCB				31-MAR-2008 11:41	1.0	1.0		5000		
024	033108r	SAMPLE	202097-001	136492	Soil	31-MAR-2008 11:45	1.0	45.05		5000		5:FE=1091801
025	033108r	SAMPLE	202097-002	136492	Soil	31-MAR-2008 11:49	1.0	47.62		5000		4:CA=1463189
026	033108r	SAMPLE	202097-004	136492	Soil	31-MAR-2008 11:54	1.0	46.73		5000		8:CA=2073253
027	033108r	SAMPLE	202247-001	136492	Soil	31-MAR-2008 11:59	1.0	48.54	2	5000		5:CA=320381
028	033108r	SAMPLE	202247-002	136492	Soil	31-MAR-2008 12:03	1.0	47.62	2	5000		6:FE=444113
029	033108r	SAMPLE	202247-003	136492	Soil	31-MAR-2008 12:07	1.0	49.50	1	5000		5:FE=333574
030	033108r	SAMPLE	202247-004	136492	Soil	31-MAR-2008 12:12	1.0	48.54	1	5000		6:CA=1015440
031	033108r	SAMPLE	202247-005	136492	Soil	31-MAR-2008 12:16	1.0	46.73	1	5000		5:FE=341131

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8732 7=S8719 8=S8740 9=S8385 10=S8386 11=S8733

Analyst: David Rumm Date: 3/31/2008

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 98131640 Instrument: MET09 PE ICP MET09 Begun: 31-MAR-2008
Analytical Method: EPA 6010B SOP Version: icp metals_rv9

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	033108r	SAMPLE	202247-006	136492	Soil	31-MAR-2008 12:21	1.0	49.50	1	5000	6:FE=354191	
033	033108r	SAMPLE	202247-007	136492	Soil	31-MAR-2008 12:26	1.0	44.64	2	5000	7:CA=555384	
034	033108r	X				31-MAR-2008 12:30	1.0				11	
035	033108r	CCV				31-MAR-2008 12:31	1.0	1.0	4	5000	11	
036	033108r	X				31-MAR-2008 12:36	1.0					
037	033108r	X				31-MAR-2008 12:39	1.0					
038	033108r	CCB				31-MAR-2008 12:56	1.0	1.0	1	5000		
039	033108r	SAMPLE	202247-008	136492	Soil	31-MAR-2008 13:00	1.0	45.05	2	5000	6:FE=367563	
040	033108r	SAMPLE	202247-009	136492	Soil	31-MAR-2008 13:05	1.0	48.54	1	5000	7:FE=379250	
041	033108r	SAMPLE	202247-010	136492	Soil	31-MAR-2008 13:09	1.0	45.05	1	5000	6:FE=428692	
042	033108r	SAMPLE	202247-011	136492	Soil	31-MAR-2008 13:14	1.0	48.54	1	5000	6:FE=505761	
043	033108r	ICSAB				31-MAR-2008 13:20	1.0	1.0		5000	8 5:AL=547898	
044	033108r	CCV				31-MAR-2008 13:25	1.0	1.0	3	5000	11	
045	033108r	X				31-MAR-2008 13:26	1.0				11	
046	033108r	X				31-MAR-2008 13:30	1.0					
047	033108r	CCB				31-MAR-2008 13:34	1.0	1.0	1	5000		

Stds used: 1=S8428 2=S8350 3=S8349 4=S8393 5=S8370 6=S8732 7=S8719 8=S8740 9=S8385 10=S8386 11=S8733

Analyst: [signature] Date: 3/31/2008

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 98131640001
Units : ug/L

Date : 31-MAR-2008 10:00
X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	033108r	98131640002	CRIM08	31-MAR-2008 10:04	S8428
L2	033108r	98131640003	CS100	31-MAR-2008 10:09	S8350
L3	033108r	98131640004	CS1K	31-MAR-2008 10:12	S8349
L4	033108r	98131640005	CS10K	31-MAR-2008 10:14	S8393
L5	033108r	98131640006	CS100K	31-MAR-2008 10:19	S8370

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	30.018	31.262	30.817	29.666		LOR0	0.00000	0.03370		30.441	1.000	0.995	
Arsenic	A	11.788	12.435	12.714	12.122		LOR0	0.00000	0.08245		12.265	1.000	0.995	
Barium	A	100.48	122.33	123.39	115.34		LOR0	0.00000	0.00866		115.39	1.000	0.995	
Beryllium	A	4787.0	5181.0	5285.3			LOR0	0.00000	1.89E-4		5084.4	1.000	0.995	
Boron	A	215.98		229.65	225.95		LOR0	0.00000	0.00443		223.86	1.000	0.995	
Cadmium	A	231.22	254.43	257.55	236.54		LOR0	0.00000	0.00422		244.93	1.000	0.995	
Chromium	A	123.59	216.37	218.76	205.71		LOR0	0.00000	0.00486		191.11	1.000	0.995	
Cobalt	A	56.112	62.848	66.286	61.950		LOR0	0.00000	0.01613		61.799	1.000	0.995	
Copper	A	117.16	200.15	214.09	200.81		LOR0	0.00000	0.00498		183.05	1.000	0.995	
Lead	A	41.784	63.116	64.597	59.842		LOR0	0.00000	0.01670		57.335	1.000	0.995	
Manganese	A	425.60	665.48	672.07	611.38		LOR0	0.00000	0.00163		593.63	1.000	0.995	
Molybdenum	A	51.268	53.709	52.853	48.291		LOR0	0.00000	0.02069		51.530	1.000	0.995	
Nickel	A	60.715	106.66	111.97	105.64		LOR0	0.00000	0.00946		96.247	1.000	0.995	
Selenium	A	13.937	16.153	16.243	15.947		LOR0	0.00000	0.06270		15.570	1.000	0.995	
Silver	A	633.12	637.48	651.92	639.55		LOR0	0.00000	0.00156		640.52	1.000	0.995	
Thallium	A	14.766	13.589	13.519	12.650		LOR0	0.00000	0.07900		13.631	1.000	0.995	
Tin	A	23.165	24.151	25.581	24.739		LOR0	0.00000	0.04041		24.409	1.000	0.995	
Titanium	A	581.50	944.31	976.44	890.45		LOR0	0.00000	0.00112		848.17	1.000	0.995	
Vanadium	A	193.12	259.13	261.33	251.42		LOR0	0.00000	0.00398		241.25	1.000	0.995	
Zinc	A	88.075	87.335	88.595	84.379		LOR0	0.00000	0.01185		87.096	1.000	0.995	
Aluminum	R	0.2885		0.7598	0.8193	0.8673	LOR0	0.00000	1.15371		0.6837	1.000	0.995	
Calcium	R	6.7586		10.219	10.318	10.380	LOR0	0.00000	0.09634		9.4190	1.000	0.995	
Iron	R	9.3285		5.9863	5.5915	5.5301	LOR0	0.00000	0.18081		6.6091	1.000	0.995	
Magnesium	R	0.8905		1.2138	1.2096	1.2271	LOR0	0.00000	0.81501		1.1353	1.000	0.995	
Potassium	R	3.2822		3.1259	2.8146	2.9291	LOR0	0.00000	0.34153		3.0380	1.000	0.995	
Sodium	R	359.58		356.42	338.33	333.22	LOR0	0.00000	0.00300		346.89	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Antimony	A	5.000	1	100.0	5	1000	4	10000	0		
Arsenic	A	5.000	-3	100.0	3	1000	5	10000	0		
Barium	A	5.000	-13	100.0	6	1000	7	10000	0		
Beryllium	A	2.000	-9	100.0	-2	1000	0				
Boron	A	100.0	-4			1000	2	10000	0		
Cadmium	A	5.000	-2	100.0	7	1000	9	10000	0		
Chromium	A	5.000	-40	100.0	5	1000	6	10000	0		
Cobalt	A	5.000	-9	100.0	1	1000	7	10000	0		
Copper	A	5.000	-42	100.0	0	1000	7	10000	0		
Lead	A	3.000	-30	100.0	5	1000	8	10000	0		
Manganese	A	5.000	-30	100.0	9	1000	10	10000	0		
Molybdenum	A	5.000	6	100.0	11	1000	9	10000	0		
Nickel	A	5.000	-43	100.0	1	1000	6	10000	0		
Selenium	A	5.000	-13	100.0	1	1000	2	10000	0		
Silver	A	5.000	-1	100.0	-1	1000	2	2000	0		
Thallium	A	5.000	17	100.0	7	1000	7	10000	0		
Tin	A	40.00	-6	100.0	-2	1000	3	10000	0		
Titanium	A	10.00	-35	100.0	6	1000	10	10000	0		
Vanadium	A	5.000	-23	100.0	3	1000	4	10000	0		
Zinc	A	20.00	4	100.0	3	1000	5	10000	0		
Aluminum	R	100.0	-67			1000	-12	10000	-5	100000	0
Calcium	R	200.0	-35			1000	-2	10000	-1	100000	0
Iron	R	100.0	69			1000	8	10000	1	100000	0
Magnesium	R	200.0	-27			1000	-1	10000	-1	100000	0
Potassium	R	500.0	12			1000	7	10000	-4	100000	0
Sodium	R	500.0	8			1000	7	10000	2	100000	0

SGS

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 3/31/2008 10:00:42 AM
Data Type: Reprocessed on 3/31/2008 11:02:46 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	159.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	2048.4	57.00	2.78%	[0.00]	ug/L
Al 308.215 R	176.0	2.22	1.26%	[0.00]	ug/L
As 188.979	-37.2	16.04	43.14%	[0.00]	ug/L
B 249.677	-2061.4	7.02	0.34%	[0.00]	ug/L
Ba 233.527	107.4	2.14	1.99%	[0.00]	ug/L
Be 313.107	-701.3	87.56	12.49%	[0.00]	ug/L
Ca 315.887 R	2154.9	25.27	1.17%	[0.00]	ug/L
Cd 214.440	-20.7	12.94	62.51%	[0.00]	ug/L
Co 228.616	4.0	2.08	52.22%	[0.00]	ug/L
Cr 267.716	450.0	0.42	0.09%	[0.00]	ug/L
Cu 324.752	3172.2	12.40	0.39%	[0.00]	ug/L
Fe 238.204 R	285.5	4.80	1.68%	[0.00]	ug/L
K 766.490 R	-297.8	132.92	44.63%	[0.00]	ug/L
Mg 279.077 R	-129.8	2.97	2.29%	[0.00]	ug/L
Mn 257.610	1014.5	8.68	0.86%	[0.00]	ug/L
Mo 202.031	10.1	13.85	137.53%	[0.00]	ug/L
Na 589.592 R	73353.4	1006.84	1.37%	[0.00]	ug/L
Ni 231.604	934.6	5.46	0.58%	[0.00]	ug/L
Pb 220.353	-171.7	47.50	27.67%	[0.00]	ug/L
Sb 206.836	219.7	61.08	27.80%	[0.00]	ug/L
Se 196.026	36.6	24.16	66.04%	[0.00]	ug/L
Ti 334.940 R	5171.2	336.40	6.51%	[0.00]	ug/L
Tl 190.801	-12.2	11.02	90.24%	[0.00]	ug/L
V 292.402	-700.2	92.09	13.15%	[0.00]	ug/L
Zn 206.200	245.1	3.89	1.59%	[0.00]	ug/L
Sn 189.927	9.5	2.96	31.01%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/31/2008 10:04:53 AM
Data Type: Reprocessed on 3/31/2008 11:02:47 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	158.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3646057.7	50978.98	1.40%	100.000	%
Y	293731.7	17211.81	5.86%	100.000	%
Ag 328.068†	3165.6	287.85	9.09%	[5.0]	ug/L
Al 308.215 R†	28.8	17.44	60.44%	[100]	ug/L
As 188.979†	58.9	14.58	24.75%	[5.0]	ug/L
B 249.677†	21597.6	394.65	1.83%	[100]	ug/L
Ba 233.527†	502.4	17.85	3.55%	[5.0]	ug/L
Be 313.107†	9574.0	317.78	3.32%	[2.0]	ug/L
Ca 315.887 R†	1351.7	278.65	20.61%	[200]	ug/L
Cd 214.440†	1156.1	18.64	1.61%	[5.0]	ug/L
Co 228.616†	280.6	16.67	5.94%	[5.0]	ug/L
Cr 267.716†	618.0	41.91	6.78%	[5.0]	ug/L
Cu 324.752†	585.8	53.75	9.18%	[5.0]	ug/L
Fe 238.204 R†	932.9	200.22	21.46%	[100]	ug/L
K 766.490 R†	1641.1	93.12	5.67%	[500]	ug/L
Mg 279.077 R†	178.1	19.44	10.91%	[200]	ug/L
Mn 257.610†	2128.0	147.74	6.94%	[5.0]	ug/L
Mo 202.031†	256.3	6.93	2.70%	[5.0]	ug/L
Na 589.592 R†	179791.4	10993.71	6.11%	[500]	ug/L
Ni 231.604†	303.6	20.51	6.75%	[5.0]	ug/L
Pb 220.353†	125.4	20.46	16.32%	[3.0]	ug/L
Sb 206.836†	150.1	56.02	37.33%	[5.0]	ug/L
Se 196.026†	69.7	24.27	34.82%	[5.0]	ug/L
Ti 334.940 R†	5815.0	614.20	10.56%	[10]	ug/L
Tl 190.801†	73.8	17.19	23.29%	[5.0]	ug/L
V 292.402†	965.6	19.51	2.02%	[5.0]	ug/L
Zn 206.200†	1761.5	32.82	1.86%	[20]	ug/L
Sn 189.927†	926.6	13.51	1.46%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/31/2008 10:09:07 AM
Data Type: Reprocessed on 3/31/2008 11:02:48 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	158.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3524432.7	178673.05	5.07%	96.6642	%
Y	283743.5	907.33	0.32%	96.5996	%
Ag 328.068†	63748.5	2773.85	4.35%	[100]	ug/L
As 188.979†	1243.5	53.47	4.30%	[100]	ug/L
Ba 233.527†	12232.6	565.50	4.62%	[100]	ug/L
Be 313.107†	518100.2	20788.81	4.01%	[100]	ug/L
Cd 214.440†	25443.0	1291.53	5.08%	[100]	ug/L
Co 228.616†	6284.8	312.42	4.97%	[100]	ug/L
Cr 267.716†	21637.0	993.29	4.59%	[100]	ug/L
Cu 324.752†	20015.4	897.69	4.49%	[100]	ug/L
Mn 257.610†	66548.2	3026.96	4.55%	[100]	ug/L
Mo 202.031†	5370.9	255.09	4.75%	[100]	ug/L
Ni 231.604†	10665.7	472.16	4.43%	[100]	ug/L
Pb 220.353†	6311.6	307.67	4.87%	[100]	ug/L
Sb 206.836†	3126.2	92.09	2.95%	[100]	ug/L
Se 196.026†	1615.3	62.29	3.86%	[100]	ug/L
Ti 334.940 Rt	94430.6	4257.89	4.51%	[100]	ug/L
Tl 190.801†	1358.9	61.93	4.56%	[100]	ug/L
V 292.402†	25912.7	1247.15	4.81%	[100]	ug/L
Zn 206.200†	8733.5	444.07	5.08%	[100]	ug/L
Sn 189.927†	2415.1	120.47	4.99%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/31/2008 10:12:23 AM
Data Type: Reprocessed on 3/31/2008 11:02:49 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	158.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3497358.1	52126.08	1.49%	95.9216	%
Y	290119.1	2701.84	0.93%	98.7701	%
Ag 328.068†	651924.5	6229.45	0.96%	[1000]	ug/L
Al 308.215 R†	759.8	51.54	6.78%	[1000]	ug/L
As 188.979†	12713.9	176.18	1.39%	[1000]	ug/L
B 249.677†	229650.4	1221.67	0.53%	[1000]	ug/L
Ba 233.527†	123393.9	1254.72	1.02%	[1000]	ug/L
Be 313.107†	5285339.6	45864.30	0.87%	[1000]	ug/L
Ca 315.887 R†	10219.1	259.92	2.54%	[1000]	ug/L
Cd 214.440†	257547.3	1873.28	0.73%	[1000]	ug/L
Co 228.616†	66286.3	668.41	1.01%	[1000]	ug/L
Cr 267.716†	218760.3	1817.73	0.83%	[1000]	ug/L
Cu 324.752†	214092.3	2397.09	1.12%	[1000]	ug/L
Fe 238.204 R†	5986.3	100.77	1.68%	[1000]	ug/L
K 766.490 R†	3125.9	72.49	2.32%	[1000]	ug/L
Mg 279.077 R†	1213.8	59.24	4.88%	[1000]	ug/L
Mn 257.610†	672070.0	5956.23	0.89%	[1000]	ug/L
Mo 202.031†	52853.5	989.06	1.87%	[1000]	ug/L
Na 589.592 R†	356415.5	497.56	0.14%	[1000]	ug/L
Ni 231.604†	111973.3	1063.60	0.95%	[1000]	ug/L
Pb 220.353†	64596.9	1171.31	1.81%	[1000]	ug/L
Sb 206.836†	30817.3	401.30	1.30%	[1000]	ug/L
Se 196.026†	16242.9	391.81	2.41%	[1000]	ug/L
Ti 334.940 R†	976443.9	10028.28	1.03%	[1000]	ug/L
Tl 190.801†	13519.4	91.57	0.68%	[1000]	ug/L
V 292.402†	261326.0	2315.79	0.89%	[1000]	ug/L
Zn 206.200†	88595.2	606.17	0.68%	[1000]	ug/L
Sn 189.927†	25580.8	557.02	2.18%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 3/31/2008 10:14:45 AM
Data Type: Reprocessed on 3/31/2008 11:02:50 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	158.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3539560.8	39171.06	1.11%	97.0791	%
Y	291472.9	6739.82	2.31%	99.2310	%
Ag 328.068†	1279108.2	4558.56	0.36%	[2000]	ug/L
Al 308.215 R†	8193.5	57.90	0.71%	[10000]	ug/L
As 188.979†	121224.7	3746.37	3.09%	[10000]	ug/L
B 249.677†	2259497.0	10653.20	0.47%	[10000]	ug/L
Ba 233.527†	1153391.9	1450.49	0.13%	[10000]	ug/L
Ca 315.887 R†	103180.2	72.15	0.07%	[10000]	ug/L
Cd 214.440†	2365399.1	7678.98	0.32%	[10000]	ug/L
Co 228.616†	619504.2	884.84	0.14%	[10000]	ug/L
Cr 267.716†	2057121.6	2601.87	0.13%	[10000]	ug/L
Cu 324.752†	2008084.7	6438.34	0.32%	[10000]	ug/L
Fe 238.204 R†	55915.3	158.76	0.28%	[10000]	ug/L
K 766.490 R†	28145.8	230.00	0.82%	[10000]	ug/L
Mg 279.077 R†	12095.6	8.65	0.07%	[10000]	ug/L
Mn 257.610†	6113808.9	42274.52	0.69%	[10000]	ug/L
Mo 202.031†	482907.9	13875.53	2.87%	[10000]	ug/L
Na 589.592 R†	3383338.5	23022.88	0.68%	[10000]	ug/L
Ni 231.604†	1056434.4	989.80	0.09%	[10000]	ug/L
Pb 220.353†	598420.2	17199.15	2.87%	[10000]	ug/L
Sb 206.836†	296659.4	8440.31	2.85%	[10000]	ug/L
Se 196.026†	159469.8	5225.36	3.28%	[10000]	ug/L
Ti 334.940 R†	8904457.0	50895.93	0.57%	[10000]	ug/L
Tl 190.801†	126500.4	3461.77	2.74%	[10000]	ug/L
V 292.402†	2514220.6	2599.90	0.10%	[10000]	ug/L
Zn 206.200†	843792.5	1570.57	0.19%	[10000]	ug/L
Sn 189.927†	247391.4	6975.01	2.82%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 3/31/2008 10:19:07 AM
Data Type: Reprocessed on 3/31/2008 11:02:51 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	159.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3428930.4	39894.29	1.16%	94.0449	%
Y	300220.2	8620.48	2.87%	102.209	%
Al 308.215 Rt	86725.1	1104.65	1.27%	[100000]	ug/L
Ca 315.887 Rt	1038011.0	13277.22	1.28%	[100000]	ug/L
Fe 238.204 Rt	553012.3	7249.64	1.31%	[100000]	ug/L
K 766.490 Rt	292910.0	5093.88	1.74%	[100000]	ug/L
Mg 279.077 Rt	122714.9	1334.23	1.09%	[100000]	ug/L
Na 589.592 Rt	33322075.1	1027904.23	3.08%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	642.0	0.00000	0.999970	
Al 308.215 R	4	Lin Thru 0	0.0	0.8668	0.00000	0.999984	
As 188.979	4	Lin Thru 0	0.0	12.13	0.00000	0.999988	
B 249.677	3	Lin Thru 0	0.0	226.0	0.00000	0.999999	
Ba 233.527	4	Lin Thru 0	0.0	115.4	0.00000	0.999976	
Be 313.107	3	Lin Thru 0	0.0	5284	0.00000	0.999998	
Ca 315.887 R	4	Lin Thru 0	0.0	10.38	0.00000	1.000000	
Cd 214.440	4	Lin Thru 0	0.0	236.7	0.00000	0.999961	
Co 228.616	4	Lin Thru 0	0.0	61.99	0.00000	0.999976	
Cr 267.716	4	Lin Thru 0	0.0	205.8	0.00000	0.999980	
Cu 324.752	4	Lin Thru 0	0.0	200.9	0.00000	0.999979	
Fe 238.204 R	4	Lin Thru 0	0.0	5.531	0.00000	0.999999	
K 766.490 R	4	Lin Thru 0	0.0	2.928	0.00000	0.999992	
Mg 279.077 R	4	Lin Thru 0	0.0	1.227	0.00000	0.999999	
Mn 257.610	4	Lin Thru 0	0.0	612.0	0.00000	0.999951	
Mo 202.031	4	Lin Thru 0	0.0	48.34	0.00000	0.999956	
Na 589.592 R	4	Lin Thru 0	0.0	333.3	0.00000	0.999999	
Ni 231.604	4	Lin Thru 0	0.0	105.7	0.00000	0.999982	
Pb 220.353	4	Lin Thru 0	0.0	59.89	0.00000	0.999969	
Sb 206.836	4	Lin Thru 0	0.0	29.68	0.00000	0.999992	
Se 196.026	4	Lin Thru 0	0.0	15.95	0.00000	0.999998	
Ti 334.940 R	4	Lin Thru 0	0.0	891.3	0.00000	0.999954	
Tl 190.801	4	Lin Thru 0	0.0	12.66	0.00000	0.999977	
V 292.402	4	Lin Thru 0	0.0	251.5	0.00000	0.999992	
Zn 206.200	4	Lin Thru 0	0.0	84.42	0.00000	0.999988	
Sn 189.927	4	Lin Thru 0	0.0	24.75	0.00000	0.999994	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09
Seqnum : 98131640007
Cal : 98131640001
Standards: S8732

File : 033108r
Caldate : 31-MAR-2008

IDF : 1.0
Time : 31-MAR-2008 10:27

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	30.441	30.437	5000	5128	ug/L	3	10	
Arsenic	A	12.265	12.777	5000	5268	ug/L	5	10	
Barium	A	115.39	119.74	5000	5187	ug/L	4	10	
Beryllium	A	5084.4	5269.6	500.0	498.6	ug/L	0	10	
Boron	A	223.86	234.59	5000	5190	ug/L	4	10	
Cadmium	A	244.93	247.40	5000	5225	ug/L	4	10	
Chromium	A	191.11	206.79	5000	5023	ug/L	0	10	
Cobalt	A	61.799	61.631	5000	4959	ug/L	-1	10	
Copper	A	183.05	200.60	5000	4992	ug/L	0	10	
Lead	A	57.335	60.505	5000	5051	ug/L	1	10	
Manganese	A	593.63	626.28	5000	5117	ug/L	2	10	
Molybdenum	A	51.530	50.388	5000	5212	ug/L	4	10	
Nickel	A	96.247	105.64	5000	4997	ug/L	0	10	
Selenium	A	15.570	16.298	5000	5109	ug/L	2	10	
Silver	A	640.52	584.60	1000	910.6	ug/L	-9	10	
Thallium	A	13.631	12.897	5000	5094	ug/L	2	10	
Tin	A	24.409	25.222	5000	5096	ug/L	2	10	
Titanium	A	848.17	922.32	5000	5174	ug/L	3	10	
Vanadium	A	241.25	254.14	5000	5052	ug/L	1	10	
Zinc	A	87.096	85.844	5000	5084	ug/L	2	10	
Aluminum	R	0.6837	0.8599	20000	19840	ug/L	-1	10	
Calcium	R	9.4190	10.706	20000	20630	ug/L	3	10	
Iron	R	6.6091	5.7402	20000	20760	ug/L	4	10	
Magnesium	R	1.1353	1.2911	20000	21040	ug/L	5	10	
Potassium	R	3.0380	2.8903	20000	19740	ug/L	-1	10	
Sodium	R	346.89	344.69	20000	20680	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3546230	-2.74

98131640007

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98131640008 File : 033108r IDF : 1.0
Cal : 98131640001 Caldate : 31-MAR-2008 Time : 31-MAR-2008 10:36

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	ND	5.000	0.2225	ug/L	
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	[9.181]	100.0	7.698	ug/L	!ib
Cadmium	A	[0.8142]	5.000	0.2182	ug/L	!ib
Chromium	A	ND	5.000	0.4895	ug/L	
Cobalt	A	[0.6823]	5.000	0.6067	ug/L	!ib
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	[1.594]	5.000	0.8281	ug/L	!ib
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	ND	500.0	34.37	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3708602	1.72

!=warning ib=instrument blank

98131640008

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09
Seqnum : 98131640009
Cal : 98131640001
Standards: S8719

File : 033108r
Caldate : 31-MAR-2008

IDF : 1.0
Time : 31-MAR-2008 10:40

Analyte	Ch	Quant	IQL	Units	Flags
Antimony	A	[-5.574]	5.000	ug/L	!a-
Arsenic	A	[2.247]	5.000	ug/L	
Barium	A	[0.1588]	5.000	ug/L	
Beryllium	A	[0.1444]	2.000	ug/L	!a+
Boron	A	142.4	100.0	ug/L	!a+
Cadmium	A	[-1.665]	5.000	ug/L	!a-
Cobalt	A	[3.864]	5.000	ug/L	!a+
Lead	A	[2.847]	3.000	ug/L	!a+
Molybdenum	A	[1.575]	5.000	ug/L	!a+
Selenium	A	[-3.526]	5.000	ug/L	!a-
Silver	A	[1.690]	5.000	ug/L	!a+
Thallium	A	[2.402]	5.000	ug/L	
Tin	A	[-16.41]	40.00	ug/L	!a-
Zinc	A	[-5.034]	20.00	ug/L	!a-
Potassium	R	[151.3]	500.0	ug/L	!a+
Sodium	R	[11.85]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19720	ug/L	99
Copper	A	20000	20620	ug/L	103
Manganese	A	20000	19060	ug/L	95
Nickel	A	20000	17850	ug/L	89
Titanium	A	20000	20690	ug/L	103
Vanadium	A	20000	13110	ug/L	66
Aluminum	R	500000	578000	ug/L	116
Calcium	R	500000	577000	ug/L	115
Iron	R	200000	223500	ug/L	112
Magnesium	R	500000	583400	ug/L	117

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3035410	-16.75

!=warning +=high bias -=low bias a=ICSA

98131640009

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 98131640010
Cal : 98131640001
Standards: S8740

File : 033108r
Caldate : 31-MAR-2008

IDF : 1.0
Time : 31-MAR-2008 10:48

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	580.3	ug/L	16	20	
Arsenic	A	500.0	546.4	ug/L	9	20	
Barium	A	500.0	554.7	ug/L	11	20	
Beryllium	A	500.0	537.7	ug/L	8	20	
Cadmium	A	1000	1045	ug/L	4	20	
Chromium	A	500.0	520.6	ug/L	4	20	
Cobalt	A	500.0	471.6	ug/L	-6	20	
Copper	A	500.0	559.2	ug/L	12	20	
Lead	A	1000	972.4	ug/L	-3	20	
Manganese	A	500.0	545.6	ug/L	9	20	
Molybdenum	A	500.0	565.7	ug/L	13	20	
Nickel	A	1000	942.5	ug/L	-6	20	
Selenium	A	500.0	532.5	ug/L	7	20	
Silver	A	1000	1089	ug/L	9	20	
Thallium	A	500.0	470.7	ug/L	-6	20	
Titanium	A	20000	21390	ug/L	7		
Vanadium	A	500.0	546.7	ug/L	9	20	
Zinc	A	1000	1008	ug/L	1	20	
Aluminum	R	500000	519000	ug/L	4		
Calcium	R	500000	514100	ug/L	3		
Iron	R	200000	199000	ug/L	0		
Magnesium	R	500000	522500	ug/L	5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3069888	-15.80

98131640010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98131640021
Cal : 98131640001
Standards: S8733

File : 033108r
Caldate : 31-MAR-2008

IDF : 1.0
Time : 31-MAR-2008 11:33

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.441	30.601	5000	5156	ug/L	3	10	
Arsenic	A	12.265	12.515	5000	5159	ug/L	3	10	
Barium	A	115.39	118.88	5000	5150	ug/L	3	10	
Beryllium	A	5084.4	5217.0	500.0	493.6	ug/L	-1	10	
Boron	A	223.86	232.97	5000	5154	ug/L	3	10	
Cadmium	A	244.93	247.91	5000	5236	ug/L	5	10	
Chromium	A	191.11	205.60	5000	4994	ug/L	0	10	
Cobalt	A	61.799	60.813	5000	4893	ug/L	-2	10	
Copper	A	183.05	197.62	5000	4917	ug/L	-2	10	
Lead	A	57.335	59.743	5000	4988	ug/L	0	10	
Manganese	A	593.63	626.88	5000	5122	ug/L	2	10	
Molybdenum	A	51.530	50.413	5000	5215	ug/L	4	10	
Nickel	A	96.247	105.00	5000	4966	ug/L	-1	10	
Selenium	A	15.570	16.044	5000	5029	ug/L	1	10	
Silver	A	640.52	599.55	1000	933.8	ug/L	-7	10	
Thallium	A	13.631	12.739	5000	5032	ug/L	1	10	
Tin	A	24.409	24.871	5000	5025	ug/L	1	10	
Titanium	A	848.17	919.41	5000	5158	ug/L	3	10	
Vanadium	A	241.25	253.52	5000	5040	ug/L	1	10	
Zinc	A	87.096	84.564	5000	5008	ug/L	0	10	
Aluminum	R	0.6837	0.9168	20000	21160	ug/L	6	10	
Calcium	R	9.4190	11.463	20000	22090	ug/L	10	10	
Iron	R	6.6091	6.2321	20000	22540	ug/L	**13**	10	c+ ***
Magnesium	R	1.1353	1.3567	20000	22120	ug/L	**11**	10	c+ ***
Potassium	R	3.0380	3.0869	20000	21090	ug/L	5	10	
Sodium	R	346.89	371.15	20000	22270	ug/L	**11**	10	c+ ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3518529	-3.50

+=high bias c=CCV

98131640021

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 98131640023 File : 033108r IDF : 1.0
Cal : 98131640001 Caldate : 31-MAR-2008 Time : 31-MAR-2008 11:41

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	[0.2990]	5.000	0.2225	ug/L	!ib
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	[11.23]	100.0	7.698	ug/L	!ib
Cadmium	A	[0.9985]	5.000	0.2182	ug/L	!ib
Chromium	A	ND	5.000	0.4895	ug/L	
Cobalt	A	[1.022]	5.000	0.6067	ug/L	!ib
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	ND	3.000	1.378	ug/L	
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	[2.082]	5.000	0.8281	ug/L	!ib
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	ND	500.0	34.37	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3811840	4.55

!=warning ib=instrument blank

98131640023

00131

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 98131640035
Cal : 98131640001
Standards: S8733

File : 033108r
Caldate : 31-MAR-2008

IDF : 1.0
Time : 31-MAR-2008 12:31

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.441	30.684	5000	5170	ug/L	3	10	
Arsenic	A	12.265	12.741	5000	5253	ug/L	5	10	
Barium	A	115.39	121.41	5000	5259	ug/L	5	10	
Beryllium	A	5084.4	5310.5	500.0	502.5	ug/L	0	10	
Boron	A	223.86	238.14	5000	5269	ug/L	5	10	
Cadmium	A	244.93	251.63	5000	5314	ug/L	6	10	
Chromium	A	191.11	209.28	5000	5084	ug/L	2	10	
Cobalt	A	61.799	62.259	5000	5010	ug/L	0	10	
Copper	A	183.05	202.19	5000	5031	ug/L	1	10	
Lead	A	57.335	60.926	5000	5087	ug/L	2	10	
Manganese	A	593.63	637.62	5000	5209	ug/L	4	10	
Molybdenum	A	51.530	52.896	5000	5472	ug/L	9	10	
Nickel	A	96.247	107.13	5000	5067	ug/L	1	10	
Selenium	A	15.570	16.500	5000	5172	ug/L	3	10	
Silver	A	640.52	616.35	1000	960.0	ug/L	-4	10	
Thallium	A	13.631	13.055	5000	5156	ug/L	3	10	
Tin	A	24.409	25.406	5000	5133	ug/L	3	10	
Titanium	A	848.17	936.58	5000	5254	ug/L	5	10	
Vanadium	A	241.25	257.35	5000	5116	ug/L	2	10	
Zinc	A	87.096	86.858	5000	5144	ug/L	3	10	
Aluminum	R	0.6837	0.9161	20000	21140	ug/L	6	10	
Calcium	R	9.4190	11.499	20000	22160	ug/L	**11**	10	c+ ***
Iron	R	6.6091	6.2210	20000	22500	ug/L	**12**	10	c+ ***
Magnesium	R	1.1353	1.3772	20000	22450	ug/L	**12**	10	c+ ***
Potassium	R	3.0380	3.0099	20000	20560	ug/L	3	10	
Sodium	R	346.89	368.92	20000	22140	ug/L	**11**	10	c+ ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3522007	-3.40

+=high bias c=CCV

98131640035

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98131640038 File : 033108r Time : 31-MAR-2008 12:56
Cal : 98131640001 Caldate : 31-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	ND	5.000	0.2225	ug/L	
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	ND	100.0	7.698	ug/L	
Cadmium	A	ND	5.000	0.2182	ug/L	
Chromium	A	ND	5.000	0.4895	ug/L	
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	4.100	3.000	1.378	ug/L	ib ***
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	ND	5.000	0.8281	ug/L	
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	ND	500.0	34.37	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3674630	0.78

ib=instrument blank

98131640038

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98131640043 File : 033108r Time : 31-MAR-2008 13:20
Cal : 98131640001 Caldate : 31-MAR-2008
Standards: S8740

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	597.0	ug/L	19	20	
Arsenic	A	500.0	591.2	ug/L	18	20	
Barium	A	500.0	590.0	ug/L	18	20	
Beryllium	A	500.0	558.4	ug/L	12	20	
Cadmium	A	1000	1086	ug/L	9	20	
Chromium	A	500.0	550.2	ug/L	10	20	
Cobalt	A	500.0	504.2	ug/L	1	20	
Copper	A	500.0	578.8	ug/L	16	20	
Lead	A	1000	1094	ug/L	9	20	
Manganese	A	500.0	575.1	ug/L	15	20	
Molybdenum	A	500.0	593.6	ug/L	19	20	
Nickel	A	1000	1003	ug/L	0	20	
Selenium	A	500.0	562.2	ug/L	12	20	
Silver	A	1000	1124	ug/L	12	20	
Thallium	A	500.0	482.6	ug/L	-3	20	
Titanium	A	20000	22240	ug/L	11		
Vanadium	A	500.0	576.1	ug/L	15	20	
Zinc	A	1000	1079	ug/L	8	20	
Aluminum	R	500000	547900	ug/L	10		
Calcium	R	500000	531100	ug/L	6		
Iron	R	200000	207300	ug/L	4		
Magnesium	R	500000	547000	ug/L	9		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3090447	-15.24

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98131640044 File : 033108r Time : 31-MAR-2008 13:25
Cal : 98131640001 Caldate : 31-MAR-2008
Standards: S8733

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	30.441	30.685	5000	5170	ug/L	3	10	
Arsenic	A	12.265	12.947	5000	5338	ug/L	7	10	
Barium	A	115.39	124.16	5000	5379	ug/L	8	10	
Beryllium	A	5084.4	5447.9	500.0	515.5	ug/L	3	10	
Boron	A	223.86	240.32	5000	5317	ug/L	6	10	
Cadmium	A	244.93	256.86	5000	5425	ug/L	8	10	
Chromium	A	191.11	214.02	5000	5199	ug/L	4	10	
Cobalt	A	61.799	64.714	5000	5208	ug/L	4	10	
Copper	A	183.05	206.66	5000	5142	ug/L	3	10	
Lead	A	57.335	61.447	5000	5130	ug/L	3	10	
Manganese	A	593.63	650.11	5000	5311	ug/L	6	10	
Molybdenum	A	51.530	51.685	5000	5346	ug/L	7	10	
Nickel	A	96.247	109.85	5000	5196	ug/L	4	10	
Selenium	A	15.570	16.531	5000	5182	ug/L	4	10	
Silver	A	640.52	628.75	1000	979.3	ug/L	-2	10	
Thallium	A	13.631	13.061	5000	5159	ug/L	3	10	
Tin	A	24.409	25.483	5000	5149	ug/L	3	10	
Titanium	A	848.17	959.68	5000	5384	ug/L	8	10	
Vanadium	A	241.25	262.72	5000	5223	ug/L	4	10	
Zinc	A	87.096	89.649	5000	5310	ug/L	6	10	
Aluminum	R	0.6837	0.9105	20000	21010	ug/L	5	10	
Calcium	R	9.4190	11.581	20000	22310	ug/L	**12**	10	c+ ***
Iron	R	6.6091	6.1522	20000	22250	ug/L	**11**	10	c+ ***
Magnesium	R	1.1353	1.3968	20000	22770	ug/L	**14**	10	c+ ***
Potassium	R	3.0380	2.9590	20000	20210	ug/L	1	10	
Sodium	R	346.89	357.53	20000	21460	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3583497	-1.72

+=high bias c=CCV

98131640044

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 98131640047 File : 033108r Time : 31-MAR-2008 13:34
Cal : 98131640001 Caldate : 31-MAR-2008

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Antimony	A	ND	5.000	2.147	ug/L	
Arsenic	A	ND	5.000	2.640	ug/L	
Barium	A	ND	5.000	0.2225	ug/L	
Beryllium	A	ND	2.000	0.08461	ug/L	
Boron	A	[9.035]	100.0	7.698	ug/L	!ib
Cadmium	A	ND	5.000	0.2182	ug/L	
Chromium	A	ND	5.000	0.4895	ug/L	
Cobalt	A	ND	5.000	0.6067	ug/L	
Copper	A	ND	5.000	1.707	ug/L	
Lead	A	6.435	3.000	1.378	ug/L	ib ***
Manganese	A	ND	5.000	0.8777	ug/L	
Molybdenum	A	[0.9762]	5.000	0.8281	ug/L	!ib
Nickel	A	ND	5.000	0.7319	ug/L	
Selenium	A	ND	5.000	2.938	ug/L	
Silver	A	ND	5.000	1.492	ug/L	
Thallium	A	ND	5.000	3.233	ug/L	
Tin	A	ND	40.00	10.00	ug/L	
Titanium	A	ND	10.00	2.036	ug/L	
Vanadium	A	ND	5.000	2.068	ug/L	
Zinc	A	ND	20.00	1.675	ug/L	
Aluminum	R	ND	100.0	21.23	ug/L	
Calcium	R	ND	200.0	88.14	ug/L	
Iron	R	ND	100.0	12.17	ug/L	
Magnesium	R	ND	200.0	20.94	ug/L	
Potassium	R	ND	500.0	79.42	ug/L	
Sodium	R	ND	500.0	34.37	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3646058	3666454	0.56

!=warning ib=instrument blank

98131640047

Curtis & Tompkins Laboratories Sample Preparation Summary 27-MAR-2008 21:48

Batch Number : 136492
Date Extracted: 27-MAR-2008
Extracted by : Chris Brock
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : S8385
Spike #2 ID : S8386
Spike #3 ID :
SOP Version : 3050B_ICP_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
202097-001			Shaw Environmental & Infrastru	Soil	1.11	g	50	45.045045	1					PB		
202097-002			Shaw Environmental & Infrastru	Soil	1.05	g	50	47.619048	1					PB		
202097-004			Shaw Environmental & Infrastru	Soil	1.07	g	50	46.728972	1					PB		
202203-001			Mactec, Inc.	Soil	1.04	g	50	48.076923	1					T26/ICP		
202247-001			CH2M Hill Constructors Inc.	Soil	1.03	g	50	48.543689	1					CD, CU, PB, SB		
202247-002			CH2M Hill Constructors Inc.	Soil	1.05	g	50	47.619048	1					CD, CU, PB, SB		
202247-003			CH2M Hill Constructors Inc.	Soil	1.01	g	50	49.504950	1					CD, CU, PB, SB		
202247-004			CH2M Hill Constructors Inc.	Soil	1.03	g	50	48.543689	1					CD, CU, PB, SB		
202247-005			CH2M Hill Constructors Inc.	Soil	1.07	g	50	46.728972	1					CD, CU, PB, SB		
202247-006			CH2M Hill Constructors Inc.	Soil	1.01	g	50	49.504950	1					CD, CU, PB, SB		
202247-007			CH2M Hill Constructors Inc.	Soil	1.12	g	50	44.642857	1					CD, CU, PB, SB		
202247-008			CH2M Hill Constructors Inc.	Soil	1.11	g	50	45.045045	1					CD, CU, PB, SB		
202247-009			CH2M Hill Constructors Inc.	Soil	1.03	g	50	48.543689	1					CD, CU, PB, SB		
202247-010			CH2M Hill Constructors Inc.	Soil	1.11	g	50	45.045045	1					CD, CU, PB, SB		
202247-011			CH2M Hill Constructors Inc.	Soil	1.03	g	50	48.543689	1					CD, CU, PB, SB		
QC435023	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC435024	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC435025	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC435026	MS	of 202203-001		Soil	1.05	g	50	47.619048	1		.5	.5		ICAP		
QC435027	MSD	of 202203-001		Soil	1.09	g	50	45.871560	1		.5	.5		ICAP		
QC435028	SER	of 202203-001		Soil	1.04	g	50	48.076923	1					ICAP		
QC435029	PDS	of 202203-001		Soil	1.04	g	50	48.076923	1					ICAP		

SS1351

Prep Chemist: Michael C Brock III 3/27/08 Reviewed By: Dawn Dawn Date: 3/27/2008

Relinquished By: Michael C Brock III 3/27/08 Received By: Dawn Dawn Date: 3/31/2008

LIMS Batch #: 136492
Date Digested: 3/27/08
Digested by: MCB III

Digestion Method
☒ EPA 3050b
☐ _____

BK 2607
Page 18

	Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLANK	Ø	50	Y	
	BS	↓	↓	↓	
	BSD	↓			
	MS-203-001 M	1.05			
5	MSD-203-001	1.09			
	202203-001	1.04			
	202097-001 A	1.11			
	-002	1.05			
	-004	1.07			
10	202247-001	1.03			
	-002	1.05			
	-003	1.01			
	-004	1.03			
	-005	1.07			
15	-006	1.01			
	-007	1.12			
	-008	1.11			
	-009	1.03			
	-010	1.11			
20	-011	1.03	↓	↓	

4514-19926-261-216

TM= 8:30 PM

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95° C	MCB III 3/27/08
.5 mL of spike solution was added to all spikes	S8385	
	S8386	
1:1 HNO3	E21027 J.T.BAKER	
concentrated HNO3	602058	
3mL 30% hydrogen peroxide	E31A08	
concentrated HCl	604059	
☒ filtered thru' Whatman # 541	11367876	
Relinquished to ICP group		

Michael Crouch III 3/27/08
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3-27-08
Reviewed by / Date

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 848127645 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 28-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	136511	ICALBLK	STD01REP1				28-MAR-2008 15:25	1.0	1.0									
002	136511	ICAL	STD02REP1				28-MAR-2008 15:27	1.0	1.0									
003	136511	ICAL	STD03REP1				28-MAR-2008 15:29	1.0	1.0									
004	136511	ICAL	STD04REP1				28-MAR-2008 15:31	1.0	1.0									
005	136511	ICAL	STD05REP1				28-MAR-2008 15:34	1.0	1.0									
006	136511	ICAL	STD06REP1				28-MAR-2008 15:36	1.0	1.0									
007	136511	ICV					28-MAR-2008 15:38	1.0	1.0	2	5.000	848127645001	5.160		ug/L	103		
008	136511	ICB					28-MAR-2008 15:41	1.0	1.0			848127645001	ND	0.20	ug/L			
009	136511	BLANK	QC435103		136511	Soil	28-MAR-2008 15:43	1.0	100.0			848127645001	ND	0.020	mg/Kg			u
010	136511	BS	QC435104		136511	Soil	28-MAR-2008 15:45	1.0	100.0		0.5000	848127645001	0.5130	0.020	mg/Kg	103		u
011	136511	BSD	QC435105		136511	Soil	28-MAR-2008 15:47	1.0	100.0		0.5000	848127645001	0.5220	0.020	mg/Kg	104	2	u
012	136511	MSS	202203-001		136511	Soil	28-MAR-2008 15:49	1.0	81.97			848127645001	0.099	0.020	mg/Kg			u
013	136511	SER	QC435106	202203-001	136511	Soil	28-MAR-2008 15:51	5.0	81.97			848127645001	0.058 J	0.082	mg/Kg		--	u
014	136511	MS	QC435107	202203-001	136511	Soil	28-MAR-2008 15:54	1.0	75.76		0.3788	848127645001	0.4977	0.020	mg/Kg	105		u
015	136511	MSD	QC435108	202203-001	136511	Soil	28-MAR-2008 15:56	1.0	89.29		0.4464	848127645001	0.5652	0.020	mg/Kg	104	1	u
016	136511	SAMPLE	202200-001		136511	Soil	28-MAR-2008 15:58	1.0	76.92			848127645001	0.098	0.020	mg/Kg			u
017	136511	SAMPLE	202201-001		136511	Miscel	28-MAR-2008 16:00	1.0	94.34			848127645001	0.030	0.020	mg/Kg			u
018	136511	X	X		136511	Miscel	28-MAR-2008 16:02	1.0	89.29			848127645001	34.73	0.020	mg/Kg			>LR cal
019	136511	CCV					28-MAR-2008 16:09	1.0	1.0	3	2.500	848127645001	2.120		ug/L	85		
020	136511	CCB					28-MAR-2008 16:12	1.0	1.0			848127645001	ND	0.20	ug/L			
021	136511	SAMPLE	202225-002		136511	Soil	28-MAR-2008 16:14	1.0	90.91			848127645001	11 >LR	0.020	mg/Kg			>LR cal
022	136511	SAMPLE	202231-003		136511	Soil	28-MAR-2008 16:17	1.0	89.29			848127645001	6.9 >LR	0.020	mg/Kg			>LR b*
023	136511	X	X		136511		28-MAR-2008 16:19	1.0										
024	136511	SAMPLE	202233-002		136511	Soil	28-MAR-2008 16:22	1.0	92.59			848127645001	8.8 >LR	0.020	mg/Kg			>LR cal
025	136511	SAMPLE	202233-003		136511	Soil	28-MAR-2008 16:24	1.0	102.0			848127645001	7.1 >LR	0.020	mg/Kg			>LR cal
026	136511	SAMPLE	202233-004		136511	Soil	28-MAR-2008 16:26	1.0	98.04			848127645001	5.2 >LR	0.020	mg/Kg			>LR cal
027	136511	SAMPLE	202233-005		136511	Soil	28-MAR-2008 16:28	1.0	87.72			848127645001	3.4 >LR	0.020	mg/Kg			>LR b*
028	136511	SAMPLE	202233-006		136511	Soil	28-MAR-2008 16:31	1.0	84.75			848127645001	6.4 >LR	0.020	mg/Kg			>LR cal
029	136511	SAMPLE	202233-007		136511	Soil	28-MAR-2008 16:33	1.0	104.2			848127645001	4.2 >LR	0.021	mg/Kg			>LR b*
030	136511	SAMPLE	202233-008		136511	Soil	28-MAR-2008 16:36	1.0	96.15			848127645001	3.4 >LR	0.020	mg/Kg			>LR b*
031	136511	CCV					28-MAR-2008 16:38	1.0	1.0	4	5.000	848127645001	4.810		ug/L	96		
032	136511	CCB					28-MAR-2008 16:40	1.0	1.0			848127645001	ND	0.20	ug/L			
033	136511	SAMPLE	202233-009		136511	Soil	28-MAR-2008 16:43	1.0	87.72			848127645001	3.1 >LR	0.020	mg/Kg			>LR b*
034	136511	X	X		136511		28-MAR-2008 16:45	50.0										
035	136511	SAMPLE	202225-002		136511	Soil	28-MAR-2008 16:47	20.0	90.91			848127645001	0.82	0.36	mg/Kg			u
036	136511	SAMPLE	202231-003		136511	Soil	28-MAR-2008 16:49	20.0	89.29			848127645001	0.67	0.36	mg/Kg			u
037	136511	X	X		136511		28-MAR-2008 16:52	10.0										
038	136511	SAMPLE	202233-002		136511	Soil	28-MAR-2008 16:54	20.0	92.59			848127645001	1.7	0.37	mg/Kg			u
039	136511	SAMPLE	202233-003		136511	Soil	28-MAR-2008 16:56	10.0	102.0			848127645001	1.7	0.20	mg/Kg			u
040	136511	SAMPLE	202233-004		136511	Soil	28-MAR-2008 16:58	10.0	98.04			848127645001	1.2	0.20	mg/Kg			u
041	136511	SAMPLE	202233-005		136511	Soil	28-MAR-2008 17:00	10.0	87.72			848127645001	0.80	0.18	mg/Kg			u
042	136511	SAMPLE	202233-006		136511	Soil	28-MAR-2008 17:02	10.0	84.75			848127645001	2.2	0.17	mg/Kg			u
043	136511	CCV					28-MAR-2008 17:04	1.0	1.0	5	7.500	848127645001	7.720		ug/L	103		

Stds used: 1=S8781 2=S8783 3=S8784 4=S8785 5=S8786
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 3/31/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 848127645 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 28-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
044	136511	CCB					28-MAR-2008 17:06	1.0	1.0			848127645001	ND	0.20	ug/L			
045	136511	SAMPLE	202233-007		136511	Soil	28-MAR-2008 17:09	10.0	104.2			848127645001	1.6	0.21	mg/Kg			u
046	136511	SAMPLE	202233-008		136511	Soil	28-MAR-2008 17:11	5.0	96.15			848127645001	1.1	0.096	mg/Kg			u
047	136511	SAMPLE	202233-009		136511	Soil	28-MAR-2008 17:13	10.0	87.72			848127645001	2.1	0.18	mg/Kg			u
048	136511	CCV					28-MAR-2008 17:15	1.0	1.0	3	2.500	848127645001	2.170		ug/L	87		
049	136511	CCB					28-MAR-2008 17:17	1.0	1.0			848127645001	ND	0.20	ug/L			

Stds used: 1=S8781 2=S8783 3=S8784 4=S8785 5=S8786
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 3/31/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET14
Calnum : 848127645001
Units : ug/L

Date : 28-MAR-2008 15:25
X Axis : R

Reviewer : ---
Type : SOIL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	136511	848127645002	STD02REP1	28-MAR-2008 15:27	S8781 (500X)
L2	136511	848127645003	STD03REP1	28-MAR-2008 15:29	S8781 (200X)
L3	136511	848127645004	STD04REP1	28-MAR-2008 15:31	S8781 (50X)
L4	136511	848127645005	STD05REP1	28-MAR-2008 15:34	S8781 (20X)
L5	136511	848127645006	STD06REP1	28-MAR-2008 15:36	S8781 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	6095.0	5706.0	5357.0	4978.6	4697.7	LINR	-0.1320	2.13E-4		5366.9	0.999	.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Mercury	0.200	-36	0.500	-5	2.000	8	5.000	3	10.00	-1

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

WinHg Database 1.5

File Utility Help

RN RN

Protocol m14hgppb

Dataset/Proto 032808b /m14hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 2.13082e-4

C -1.32017e-1

Rho .999454

Type Linear

Calibrated

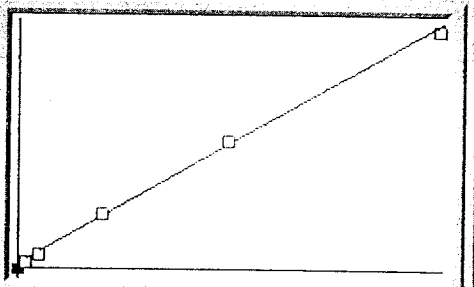
Accepted

Accept

µ Abs. 46977

Accepted

New



28-Mar-08 15:37 Conc. 10.0

Include S1 Rep 1 2 3 4 5

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.105	-.105	129	1	128		
02	.20000	.128	-.072	1220	0%	1219		
03	.50000	.476	-.024	2854	0%	2853		
04	2.0000	2.15	.151	10714	0%	10714		
05	5.0000	5.17	.172	24893	0%	24893		
06	10.000	9.88	-.122	46978	0%	46977		

Ready NUM

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1	15:25:40 28 Mar 08	HG		
Hg	.000	ppb	128					
		Bkgd 1	8884969					
*** Standard: 2 Rep: 1				Seq: 2	15:27:46 28 Mar 08	HG		
Hg	.200	ppb	1219					
		Bkgd 1	8887114					
*** Standard: 3 Rep: 1				Seq: 3	15:29:53 28 Mar 08	HG		
Hg	.500	ppb	2853					
		Bkgd 1	8889712					
*** Standard: 4 Rep: 1				Seq: 4	15:31:57 28 Mar 08	HG		
Hg	2.00	ppb	10714					
		Bkgd 1	8885962					
*** Standard: 5 Rep: 1				Seq: 5	15:34:05 28 Mar 08	HG		
Hg	5.00	ppb	24893					
		Bkgd 1	8878074					
*** Standard: 6 Rep: 1				Seq: 6	15:36:09 28 Mar 08	HG		
Hg	10.0	ppb	46977					
		Bkgd 1	8873815					
*** Check Standard: 2			Ck2s8783	Seq: 7	15:38:59 28 Mar 08	HG		
Line	Flag		Intensities					
Hg			24820					
		Bkgd 1	8875177					
*** Check Standard: 1			Ck1ICB	Seq: 8	15:41:07 28 Mar 08	HG		
Line	Flag		Intensities					
Hg			138					
		Bkgd 1	8865209					
*** Sample ID: qc435103				Seq: 9	15:43:12 28 Mar 08	HG		
			136511,1					
Hg	-.109	ppb	110					
		Bkgd 1	8870847					

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 848127645 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 28-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	136511	ICALBLK	STD01REP1				28-MAR-2008 15:25	1.0	1.0									
002	136511	ICAL	STD02REP1				28-MAR-2008 15:27	1.0	1.0									
003	136511	ICAL	STD03REP1				28-MAR-2008 15:29	1.0	1.0									
004	136511	ICAL	STD04REP1				28-MAR-2008 15:31	1.0	1.0									
005	136511	ICAL	STD05REP1				28-MAR-2008 15:34	1.0	1.0									
006	136511	ICAL	STD06REP1				28-MAR-2008 15:36	1.0	1.0									
007	136511	ICV					28-MAR-2008 15:38	1.0	1.0	2	5.000	848127645001	5.160		ug/L	103		
008	136511	ICB					28-MAR-2008 15:41	1.0	1.0			848127645001	ND	0.20	ug/L			
009	136511	BLANK	QC435103		136511	Soil	28-MAR-2008 15:43	1.0	100.0			848127645001	ND	0.020	mg/Kg			u
010	136511	BS	QC435104		136511	Soil	28-MAR-2008 15:45	1.0	100.0		0.5000	848127645001	0.5130	0.020	mg/Kg	103		u
011	136511	BSD	QC435105		136511	Soil	28-MAR-2008 15:47	1.0	100.0		0.5000	848127645001	0.5220	0.020	mg/Kg	104	2	u
012	136511	MSS	202203-001		136511	Soil	28-MAR-2008 15:49	1.0	81.97			848127645001	0.099	0.020	mg/Kg			u
013	136511	SER	QC435106	202203-001	136511	Soil	28-MAR-2008 15:51	5.0	81.97			848127645001	0.058 J	0.082	mg/Kg	--		u
014	136511	MS	QC435107	202203-001	136511	Soil	28-MAR-2008 15:54	1.0	75.76		0.3788	848127645001	0.4977	0.020	mg/Kg	105		u
015	136511	MSD	QC435108	202203-001	136511	Soil	28-MAR-2008 15:56	1.0	89.29		0.4464	848127645001	0.5652	0.020	mg/Kg	104	1	u
016	136511	SAMPLE	202200-001		136511	Soil	28-MAR-2008 15:58	1.0	76.92			848127645001	0.098	0.020	mg/Kg			u
017	136511	SAMPLE	202201-001		136511	Miscel	28-MAR-2008 16:00	1.0	94.34			848127645001	0.030	0.020	mg/Kg			u
018	136511	X	X		136511	Miscel	28-MAR-2008 16:02	1.0	89.29			848127645001	34.73	0.020	mg/Kg			>LR cal
019	136511	CCV					28-MAR-2008 16:09	1.0	1.0	3	2.500	848127645001	2.120		ug/L	85		
020	136511	CCB					28-MAR-2008 16:12	1.0	1.0			848127645001	ND	0.20	ug/L			
021	136511	SAMPLE	202225-002		136511	Soil	28-MAR-2008 16:14	1.0	90.91			848127645001	11 >LR	0.020	mg/Kg			>LR cal
022	136511	SAMPLE	202231-003		136511	Soil	28-MAR-2008 16:17	1.0	89.29			848127645001	6.9 >LR	0.020	mg/Kg			>LR b*
023	136511	X	X		136511		28-MAR-2008 16:19	1.0										
024	136511	SAMPLE	202233-002		136511	Soil	28-MAR-2008 16:22	1.0	92.59			848127645001	8.8 >LR	0.020	mg/Kg			>LR cal
025	136511	SAMPLE	202233-003		136511	Soil	28-MAR-2008 16:24	1.0	102.0			848127645001	7.1 >LR	0.020	mg/Kg			>LR cal
026	136511	SAMPLE	202233-004		136511	Soil	28-MAR-2008 16:26	1.0	98.04			848127645001	5.2 >LR	0.020	mg/Kg			>LR cal
027	136511	SAMPLE	202233-005		136511	Soil	28-MAR-2008 16:28	1.0	87.72			848127645001	3.4 >LR	0.020	mg/Kg			>LR b*
028	136511	SAMPLE	202233-006		136511	Soil	28-MAR-2008 16:31	1.0	84.75			848127645001	6.4 >LR	0.020	mg/Kg			>LR cal
029	136511	SAMPLE	202233-007		136511	Soil	28-MAR-2008 16:33	1.0	104.2			848127645001	4.2 >LR	0.021	mg/Kg			>LR b*
030	136511	SAMPLE	202233-008		136511	Soil	28-MAR-2008 16:36	1.0	96.15			848127645001	3.4 >LR	0.020	mg/Kg			>LR b*
031	136511	CCV					28-MAR-2008 16:38	1.0	1.0	4	5.000	848127645001	4.810		ug/L	96		
032	136511	CCB					28-MAR-2008 16:40	1.0	1.0			848127645001	ND	0.20	ug/L			
033	136511	SAMPLE	202233-009		136511	Soil	28-MAR-2008 16:43	1.0	87.72			848127645001	3.1 >LR	0.020	mg/Kg			>LR b*
034	136511	X	X		136511		28-MAR-2008 16:45	50.0										
035	136511	SAMPLE	202225-002		136511	Soil	28-MAR-2008 16:47	20.0	90.91			848127645001	0.82	0.36	mg/Kg			u
036	136511	SAMPLE	202231-003		136511	Soil	28-MAR-2008 16:49	20.0	89.29			848127645001	0.67	0.36	mg/Kg			u
037	136511	X	X		136511		28-MAR-2008 16:52	10.0										
038	136511	SAMPLE	202233-002		136511	Soil	28-MAR-2008 16:54	20.0	92.59			848127645001	1.7	0.37	mg/Kg			u
039	136511	SAMPLE	202233-003		136511	Soil	28-MAR-2008 16:56	10.0	102.0			848127645001	1.7	0.20	mg/Kg			u
040	136511	SAMPLE	202233-004		136511	Soil	28-MAR-2008 16:58	10.0	98.04			848127645001	1.2	0.20	mg/Kg			u
041	136511	SAMPLE	202233-005		136511	Soil	28-MAR-2008 17:00	10.0	87.72			848127645001	0.80	0.18	mg/Kg			u
042	136511	SAMPLE	202233-006		136511	Soil	28-MAR-2008 17:02	10.0	84.75			848127645001	2.2	0.17	mg/Kg			u
043	136511	CCV					28-MAR-2008 17:04	1.0	1.0	5	7.500	848127645001	7.720		ug/L	103		

Stds used: 1=S8781 2=S8783 3=S8784 4=S8785 5=S8786
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 3/31/08

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 848127645 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 28-MAR-2008
Analytical Method: EPA 7470A SOP Version: HG_water_rv11
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
044	136511	CCB					28-MAR-2008 17:06	1.0	1.0			848127645001	ND	0.20	ug/L			
045	136511	SAMPLE	202233-007		136511	Soil	28-MAR-2008 17:09	10.0	104.2			848127645001	1.6	0.21	mg/Kg			u
046	136511	SAMPLE	202233-008		136511	Soil	28-MAR-2008 17:11	5.0	96.15			848127645001	1.1	0.096	mg/Kg			u
047	136511	SAMPLE	202233-009		136511	Soil	28-MAR-2008 17:13	10.0	87.72			848127645001	2.1	0.18	mg/Kg			u
048	136511	CCV					28-MAR-2008 17:15	1.0	1.0	3	2.500	848127645001	2.170		ug/L	87		
049	136511	CCB					28-MAR-2008 17:17	1.0	1.0			848127645001	ND	0.20	ug/L			

Stds used: 1=S8781 2=S8783 3=S8784 4=S8785 5=S8786
Flags used: >LR=overrange b=noncompliant calc=check quantitation u=use

Analyst: _____ Date: 3/31/08

Curtis & Tompkins Laboratories Sample Preparation Summary 31-MAR-2008 08:35

Batch Number : 136511
Date Extracted: 28-MAR-2008
Extracted by : Jon Marshall
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : S8781
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
202200-001			ConocoPhillips Company	Soil	.65	g	50	76.923077	1				T26/HG		
202201-001			ConocoPhillips Company	Miscell.	.53	g	50	94.339623	1				T26/HG		
202203-001			Mactec, Inc.	Soil	.61	g	50	81.967213	1				T26/HG		MSS
202225-002			Geomatrix Consultants	Soil	.55	g	50	90.909091	1				T26/HG		
202231-003			Blasland, Bouck & Lee	Soil	.56	g	50	89.285714	1				PP13/HG		
202233-002			EA Engineering, Science, and T	Soil	.54	g	50	92.592593	1				RCRA/HG		
202233-003			EA Engineering, Science, and T	Soil	.49	g	50	102.040816	1				RCRA/HG		
202233-004			EA Engineering, Science, and T	Soil	.51	g	50	98.039216	1				RCRA/HG		
202233-005			EA Engineering, Science, and T	Soil	.57	g	50	87.719298	1				RCRA/HG		
202233-006			EA Engineering, Science, and T	Soil	.59	g	50	84.745763	1				RCRA/HG		
202233-007			EA Engineering, Science, and T	Soil	.48	g	50	104.166667	1				RCRA/HG		
202233-008			EA Engineering, Science, and T	Soil	.52	g	50	96.153846	1				RCRA/HG		
202233-009			EA Engineering, Science, and T	Soil	.57	g	50	87.719298	1				RCRA/HG		
QC435103	BLANK			Soil	.5	g	50	100.000000	1				HG		
QC435104	BS			Soil	.5	g	50	100.000000	1	2.5			HG		
QC435105	BSD			Soil	.5	g	50	100.000000	1	2.5			HG		
QC435106	SER	of 202203-001		Soil	.61	g	50	81.967213	1				HG		
QC435107	MS	of 202203-001		Soil	.66	g	50	75.757576	1	2.5			HG		
QC435108	MSD	of 202203-001		Soil	.56	g	50	89.285714	1	2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 3/31/08

Relinquished By: _____ Received By: _____ Date: 3/31/08

0519

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 136511
Date Digested: 3/28/08

Digestion Method
☒ EPA 7471A
☐ _____

BK 2680
Page 23

Sample #	container ID	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
202200-001	A	0.65	50.0	Y	
202201-001	↓	0.53			
~~202202-001~~	↓	~~0.56~~			DXM 3/28/08
202203-001	N	0.61			MSS
202225-002	A	0.55			
202231-003	↓	0.56			
~~202233-001~~	J	0.50			DXM 3/28/08
02	I	0.54			
03	J	0.49			
04	↓	0.51			
05		0.57			
06		0.59			
07		0.48			
08	↓	0.52			
09	I	0.57			
MB QC435103		0.50			
BS 04		↓			
BSD 05					
MS 07		0.66			
MSD 08		0.56			
					DXM 3/28/08

Reagent ID/ LIMS# / Time	Initials / Date
Digestion Tubes, Lot # CW071202	
25 mL of spike standard was added to all spikes SS781	DXM 3/28/08
ICAL Source LIMS S#	↓
ICV / CCV LIMS S# SS783/84/85/86	
Digestion Temperature (degrees C) 95°C	
Digestion Started at (time) 12:00	
Aqua Regia Acids (HNO3+ HCl) AR032808	
5% $KMnO_4$ K032608	
NaCl.hydroxylamine hydrochloride H_2 031108	
Stannous Chloride $SnCl_2$ 032708	
Digestion Completd at (time) 12:30	
☐ filtered thru' 0.45 um syringe filter (lot #) RCN24567	↓

3/28/08
Prep Chemist / Date

Continued from page ____
Continued on page ____

3/28/08
Reviewed by / Date

Curtis & Tompkins, Ltd.

MOISTURE DATA

Curtis & Tompkins, Ltd.

Moisture

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Field ID:	1065EX315[5.0]	Batch#:	136488
Lab ID:	202203-001	Sampled:	03/26/08
Matrix:	Soil	Received:	03/26/08
Units:	%	Analyzed:	03/27/08

Result	RL
16	1

RL= Reporting Limit

31.0

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	202203	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	1065EX315[5.0]	Diln Fac:	1.000
Type:	SDUP	Batch#:	136488
MSS Lab ID:	202203-001	Sampled:	03/26/08
Lab ID:	QC435005	Received:	03/26/08
Matrix:	Soil	Analyzed:	03/27/08

MSS Result	Result	RL	RPD	Lim
15.59	14.89	1.000	5	15

RL= Reporting Limit
RPD= Relative Percent Difference

32.0

00150

Percent Moisture Summary Report

Batch: 136488
Date: 03/27/08
Method: CLP SOW 390
Analyst: VV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
202203-001	11.1691	17.8157	16.7798	84	16
202216-001	11.3748	17.2440	16.7957	92	8
202216-002	11.3549	17.3562	17.0106	94	6
202216-003	11.3876	17.6434	17.3383	95	5
202216-004	11.2301	17.7219	17.3481	94	6
202216-005	10.9687	17.2867	16.4203	86	14
202216-006	11.1911	16.9940	16.3679	89	11
202216-007	11.2049	17.0204	16.3953	89	11
202216-008	11.2073	17.3523	16.5027	86	14
202216-009	11.3468	17.2653	16.8317	93	7
202216-010	11.5117	17.2395	16.9064	94	6
202216-011	11.1683	18.3397	17.8127	93	7
202216-012	11.1891	17.6458	17.1517	92	8
202216-013	11.3279	18.1385	17.4837	90	10
202231-001	11.3812	17.7786	17.5016	96	4
202231-002	10.9649	17.9970	17.6221	95	5
202231-003	11.4237	16.7023	16.2475	91	9
202231-004	11.1259	17.5362	17.2890	96	4
QC435005	11.2801	17.1822	16.3032	85	15
of 202203-001			RPD:	0.8%	4.5%

~~Diff~~ 13&HSS

Sample #	Dish	Dish wt	Sample wt	Final wt	Comment
BIK	CT18	11.3773		11.3753	
202203-01	XII	11.1691	17.8157	16.7798	
SDup-01	C30	11.2801	17.1822	16.3032	
216-01	CT3	11.3748	17.2440	16.7957	
02	B11	11.3546	17.3562	17.0106	
03	C21	11.3826	17.6454	17.3383	
04	B102	11.2301	17.7219	17.3481	
05	10G	10.9687	17.2867	16.4203	
06	D106	11.1511	16.7940	16.3679	
07	JNH	11.2045	17.0204	16.3953	
08	B123	11.2073	17.3523	16.5027	
09	B12	11.3468	19.2453	16.8317	
10	B20	11.5117	17.2395	16.9064	
11	B115	11.1683	18.5397	17.8127	
12	2BM	11.1891	17.6458	17.1517	
13	SRY	11.3259	18.1385	17.4837	
231-01	C29	11.3812	17.7786	17.5016	
02	MAD	10.9649	17.9970	17.6221	
03	CT5	11.4237	16.7027	16.2475	
04	B104	11.1259	17.5362	17.2890	

Time IN: 15:15
OUT: 11:30 AM
oven temp: 103°C

Continued on Page

Read and Understood By

3/27/08 3-28-08

Signed Date Signed Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 136488
Date Started: 27-MAR-2008
Batched by : Victor Vergara

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
202203-001		Mactec, Inc.	Soil	MOISTURE	02-APR-2008
202216-001		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-002		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-003		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-004		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-005		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-006		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-007		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-008		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-009		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-010		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-011		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-012		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202216-013		CH2M Hill Construc	Soil	MOISTURE	28-MAR-2008
202231-001		Blasland, Bouck &	Soil	MOISTURE	03-APR-2008
202231-002		Blasland, Bouck &	Soil	MOISTURE	03-APR-2008
202231-003		Blasland, Bouck &	Soil	MOISTURE	03-APR-2008
202231-004		Blasland, Bouck &	Soil	MOISTURE	03-APR-2008
QC435005	SDUP of 202203-001		Soil	MOISTURE	

SB
PROJECT METTLER AE-200 Balance

Notebook No. BK 0752

Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	Initial	Weight Set.
3-21-08	0.2000	1.0000	10.0000	50.0000	VV	10827
3-22-08	0.2000	1.0000	10.0000	50.0000	VV	10827
3-23-08	0.2000	1.0000	10.0000	50.0000	VV	10827
3-24-08	0.2000	1.0000	10.0000	50.0000	VV	10827
3-25-08	0.2000	1.0000	10.0000	50.0000	VV	10827
3-26-08	0.2000	1.0000	10.0000	50.0000	VV	10827
3-27-08	0.2000	1.0000	10.0000	50.0000	VV	10827
3-28-08	0.2000	1.0000	10.0000	50.0000	VV	10827

Continued on Page

Read and Understood By

Signed Date Signed Date

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 8

Date	Initials	Temp (*C)
12-22-07	HD	105°C
12-23-07	HD	105°C
12-26-07	HD	105°C
12-27-07	VV	105°C
12-28-07	VV	103°C
12-29-07	HD	104°C
1-2-08	HD	104°C
1-3-08	VV	104°C
1-4-08	VV	103°C
1-5-08	HD	105°C
1-6-08	HD	105°C
1-9-08	VV	104°C
1-10-08	VV	103°C
1-11-08	VV	104°C
1-12-08	HD	103°C
1-13-08	HD	103°C
1-14-08	VV	103°C
1-15-08	VV	103°C
1-16-08	VV	105°C
1-17-08	VV	105°C
1-18-08	VV	105°C
1-19-08	HD	105°C
1-21-08	VV	105°C
1-22-08	VV	105°C
1-23-08	VV	104°C
1-24-08	VV	105°C
1-25-08	VV	103°C
1-27-08	HD	103°C
1-28-08	VV	104°C
1-29-08	VV	104°C
1-30-08	VV	104°C
1-31-08	VV	104°C
2-1-08	VV	103°C
2-2-08	HD	103°C
2-3-08	HD	103°C
2-4-08	VV	103°C
2-5-08	VV	103°C
2-6-08	VV	104°C
2-7-08	VV	103°C
2-8-08	VV	103°C
2-9-08	HD	103°C
2-10-08	HD	103°C

Date	Initials	Temp (*C)
2-11-08	VV	104°C
2-12-08	VV	104°C
2-13-08	VV	105°C
2-14-08	VV	105°C
2-15-08	VV	104°C
2-16-08	HD	103°C
2-19-08	VV	103°C
2-20-08	VV	104°C
2-21-08	HD	104°C
2-22-08	VV	104°C
2-24-08	HD	103°C
2-25-08	VV	104°C
2-26-08	VV	105°C
2-27-08	VV	105°C
2-28-08	VV	104°C
2-29-08	VV	103°C
~~3-1-08~~	HD	103°C
3-1-08	HD	103°C
3-3-08	VV	103°C
3-4-08	VV	103°C
3-5-08	VV	104°C
3-6-08	VV	105°C
3-7-08	VV	104°C
3-8-08	HD	101°C
3-9-08	HD	103°C
3-11-08	DHD	105°C
3-12-08	VV	105°C
3-13-08	VV	104°C
3-14-08	VV	103°C
3-15-08	VV	104°C
3-17-08	VV	103°C
3-18-08	VV	105°C
3-19-08	VV	103°C
3-20-08	VV	104°C
3-21-08	VV	104°C
3-22-08	VV	103°C
3-23-08	VV	103°C
3-24-08	VV	103°C
3-25-08	VV	104°C
3-26-08	VV	103°C
3-27-08	VV	104°C
3-28-08	VV	103°C

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203210
ANALYTICAL REPORT

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065-Trench
Petaluma, CA 94954	Level : III

Sample ID	Lab ID
1065EX368[8.0]	203210-001
1065EX369[8.0]	203210-002
1065EX370[8.0]	203210-003
DUP050908	203210-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 05/21/2008
Project Manager

Signature: _____ Date: 05/28/2008
Senior Program Manager

NELAP # 01107CA

MACTEC

CHAIN OF CUSTODY RECORD

203210

3838

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME	JOB NO.
Building 1065-Trench	408407511.5 02.4
SAMPLERS (SIGNATURE)	SAMPLERS INITIALS (PRINT)
	SRG
SAMPLING DATE	

	TIME	GRAB	COMP	MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B)	TPHg (8015M) including BTEX & 5 Oxygenates	TPHd & TPHmo w/silica gel (8015M)	PAHs (8270-SIM)	Title 22 Metals	FOR LAB USE ONLY
1	855	X		SO	1065EX3685.0	145 45W-8	+MS/MSD	14	X	X	X	X	X	
2	1220	X		SO	1065EX3691.0	205 [illegible]W-8		7	X	X	X	X	X	
3	1420	X		SO	1065EX3705.0	215 93W-8		7	X	X	X	X	X	
4	1420	X		SO	DUP050908	215 93W-8		7	X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	5/8/08 1500		5/9/08 1532			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

Data Validation
TAT

For Lab Use Only

Are Custody Seals Present? Yes ☑ No ☐ N/A ☐ Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

intact on ice coldRC

F1008 (05/00)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 203210 Date Received 5/9/08 Number of coolers 1
Client MACTEC Project BLDG. 1065 - TRENCH

Date Opened 5/9/08 By (print) M. VILLANUEVA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)?..... YES NO
Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ NO
How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? ..... YES NO N/A
3. Were custody papers dry and intact when received?..... YES NO
4. Were custody papers filled out properly (ink, signed, etc)?..... YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form)..... YES NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A
Type of ice used: ☑ WET ☐ BLUE ☐ NONE Temp(°C) NO TRIP BLANK
☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... YES NO
If YES, what time were they transferred to freezer? 1715
9. Did all bottles arrive unbroken/unopened?..... YES NO
10. Are samples in the appropriate containers for indicated tests? ..... YES NO
11. Are sample labels present, in good condition and complete? ..... YES NO
12. Do the sample labels agree with custody papers? ..... YES NO
13. Was sufficient amount of sample sent for tests requested? ..... YES NO
14. Are the samples appropriately preserved? ..... YES NO N/A
15. Are bubbles absent in VOA samples?..... YES NO N/A
16. Was the client contacted concerning this sample delivery?..... YES NO
If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**203210**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065-Trench**
Request Date:	**05/09/08**
Samples Received:	**05/09/08**

This hardcopy data package contains sample and QC results for four soil samples, requested for the above referenced project on 05/09/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
5035 samples not analyzed within 48 hours were frozen.

High surrogate recovery was observed for bromofluorobenzene (FID) in 1065EX369[8.0] (lab # 203210-002); the corresponding trifluorotoluene (FID) surrogate recovery was within limits.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 137960; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank.

No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
5035 samples not analyzed within 48 hours were frozen.

Low response was observed for Freon 12 in the ICV analyzed 03/16/08 17:22; this analyte was not detected at or above the RL in the associated samples.

Low response was observed for Freon 12 in the CCV analyzed 05/11/08 15:23; this analyte met minimum response criteria.

Methylene chloride and naphthalene were detected between the MDL and the RL in the method blank for batch 137972; these analytes were not detected in samples at or above the RL.

Methylene chloride was detected between the MDL and the RL in a number of samples; this analyte is a common laboratory contaminant.

No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
High responses were observed for dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene in the ICV analyzed 05/07/08 20:08; these analytes

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**203210**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065-Trench**
Request Date:	**05/09/08**
Samples Received:	**05/09/08**

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for antimony in the MS/MSD of 1065EX368[8.0] (lab # 203210-001); the BS/BSD were within limits, and the associated RPD was within limits. High recovery was observed for vanadium in the MS of 1065EX368[8.0] (lab # 203210-001); the BS/BSD were within limits, and the associated RPD was within limits.

High % differences were observed for beryllium and lead in the serial dilution of 1065EX368[8.0] (lab # 203210-001).

Selenium and zinc were detected between the MDL and the RL in the method blank for batch 138024; these analytes were either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank.

No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	137960
Units:	mg/Kg	Sampled:	05/09/08
Diln Fac:	1.000	Received:	05/09/08

Field ID:	1065EX368[8.0]	Basis:	dry
Type:	SAMPLE	Moisture:	18%
Lab ID:	203210-001	Analyzed:	05/11/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.093 J	0.21	0.015

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	114	65-135

Field ID:	1065EX369[8.0]	Basis:	dry
Type:	SAMPLE	Moisture:	17%
Lab ID:	203210-002	Analyzed:	05/11/08

Analyte	Result	RL	MDL
Gasoline C7-C12	1.9 Y	0.19	0.013

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	144 *	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	137960
Units:	mg/Kg	Sampled:	05/09/08
Diln Fac:	1.000	Received:	05/09/08

Field ID:	1065EX370[8.0]	Basis:	dry
Type:	SAMPLE	Moisture:	28%
Lab ID:	203210-003	Analyzed:	05/11/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.055 J	0.27	0.019

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	105	65-135

Field ID:	DUP050908	Basis:	dry
Type:	SAMPLE	Moisture:	23%
Lab ID:	203210-004	Analyzed:	05/11/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.051 J	0.24	0.017

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	104	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC441086	Analyzed:	05/10/08

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.20	0.014

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	102	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC441087	Diln Fac:	1.000
Matrix:	Soil	Batch#:	137960
Units:	mg/Kg	Analyzed:	05/10/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	8.840	88	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	65-135
Bromofluorobenzene (FID)	102	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX368[8.0]	Diln Fac:	1.000
MSS Lab ID:	203210-001	Batch#:	137960
Matrix:	Soil	Sampled:	05/09/08
Units:	mg/Kg	Received:	05/09/08
Basis:	dry	Analyzed:	05/11/08

Type: MS Moisture: 18%
Lab ID: QC441088

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.09301	2.363	2.237	91	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	65-135
Bromofluorobenzene (FID)	110	65-135

Type: MSD Moisture: 18%
Lab ID: QC441089

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.238	2.609	112	75-125	21	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	65-135
Bromofluorobenzene (FID)	124	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/09/08
Units:	mg/Kg	Received:	05/09/08
Diln Fac:	1.000	Prepared:	05/10/08
Batch#:	137955		

Field ID:	1065EX368[8.0]	Moisture:	18%
Type:	SAMPLE	Analyzed:	05/11/08
Lab ID:	203210-001	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	2.5 Y	1.2	0.22
Fuel Oil C24-C36	10	6.1	0.64

Surrogate	%REC	Limits
Hexacosane	83	65-135

Field ID:	1065EX369[8.0]	Moisture:	17%
Type:	SAMPLE	Analyzed:	05/11/08
Lab ID:	203210-002	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	6.7 Y	1.2	0.058
Fuel Oil C24-C36	21	6.0	0.79

Surrogate	%REC	Limits
Hexacosane	75	65-135

Field ID:	1065EX370[8.0]	Moisture:	28%
Type:	SAMPLE	Analyzed:	05/11/08
Lab ID:	203210-003	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	12 Y	1.4	0.067
Fuel Oil C24-C36	73	6.9	0.91

Surrogate	%REC	Limits
Hexacosane	71	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/09/08
Units:	mg/Kg	Received:	05/09/08
Diln Fac:	1.000	Prepared:	05/10/08
Batch#:	137955		

Field ID:	DUP050908	Moisture:	23%
Type:	SAMPLE	Analyzed:	05/12/08
Lab ID:	203210-004	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	13 Y	1.3	0.063
Fuel Oil C24-C36	60	6.5	0.85

Surrogate	%REC	Limits
Hexacosane	86	65-135

Type:	BLANK	Analyzed:	05/11/08
Lab ID:	QC441064	Cleanup Method:	EPA 3630C
Basis:	as received		

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.18
Fuel Oil C24-C36	ND	5.0	0.52

Surrogate	%REC	Limits
Hexacosane	95	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC441065	Batch#:	137955
Matrix:	Soil	Prepared:	05/10/08
Units:	mg/Kg	Analyzed:	05/12/08
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.95	42.98	86	65-135

Surrogate	%REC	Limits
Hexacosane	85	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	SHAKER TABLE
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX368[8.0]	Batch#:	137955
MSS Lab ID:	203210-001	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	mg/Kg	Prepared:	05/10/08
Basis:	as received	Analyzed:	05/11/08
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC441066

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	2.043	49.89	38.21	73	65-135

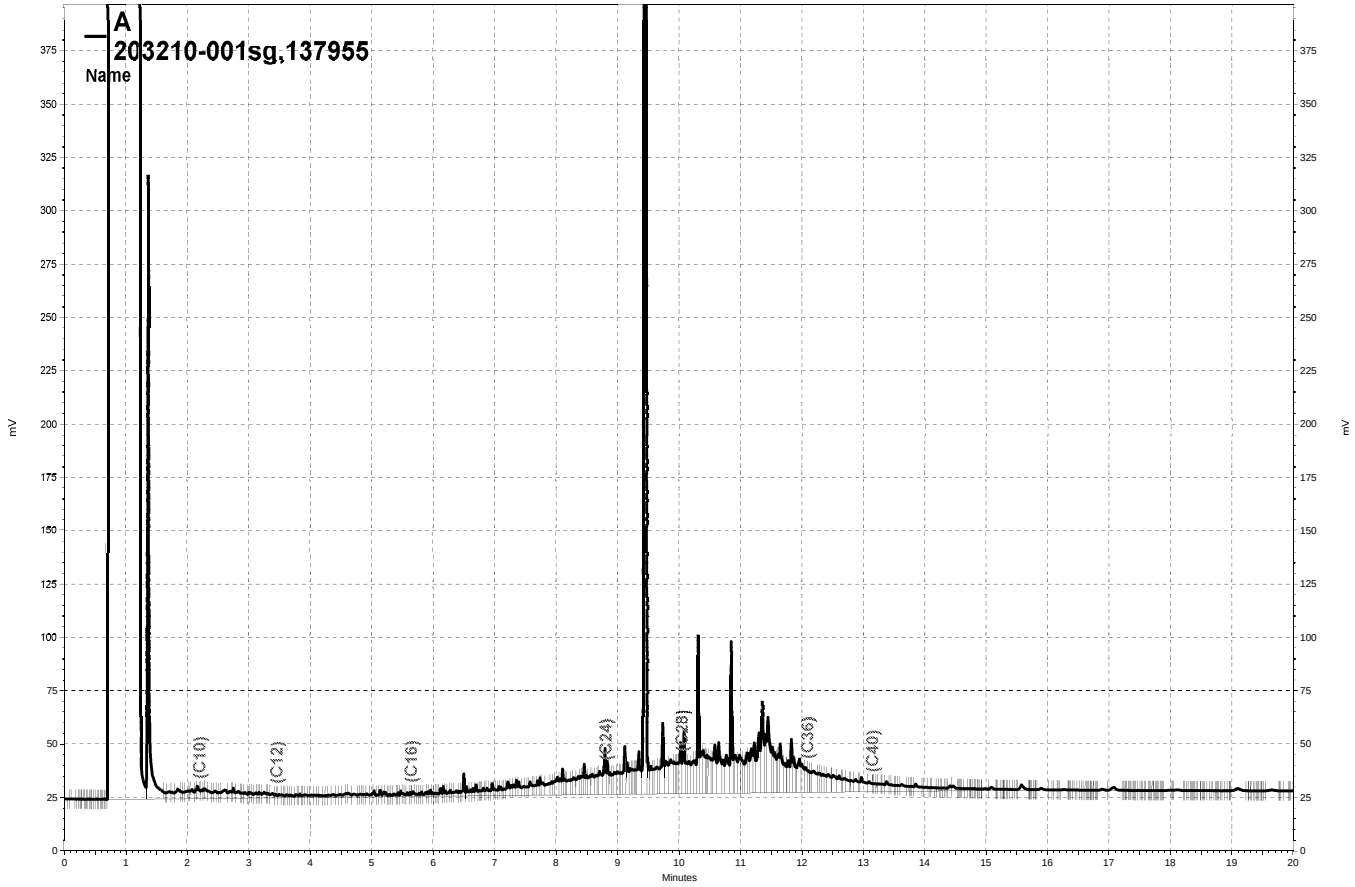
Surrogate	%REC	Limits
Hexacosane	78	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC441067

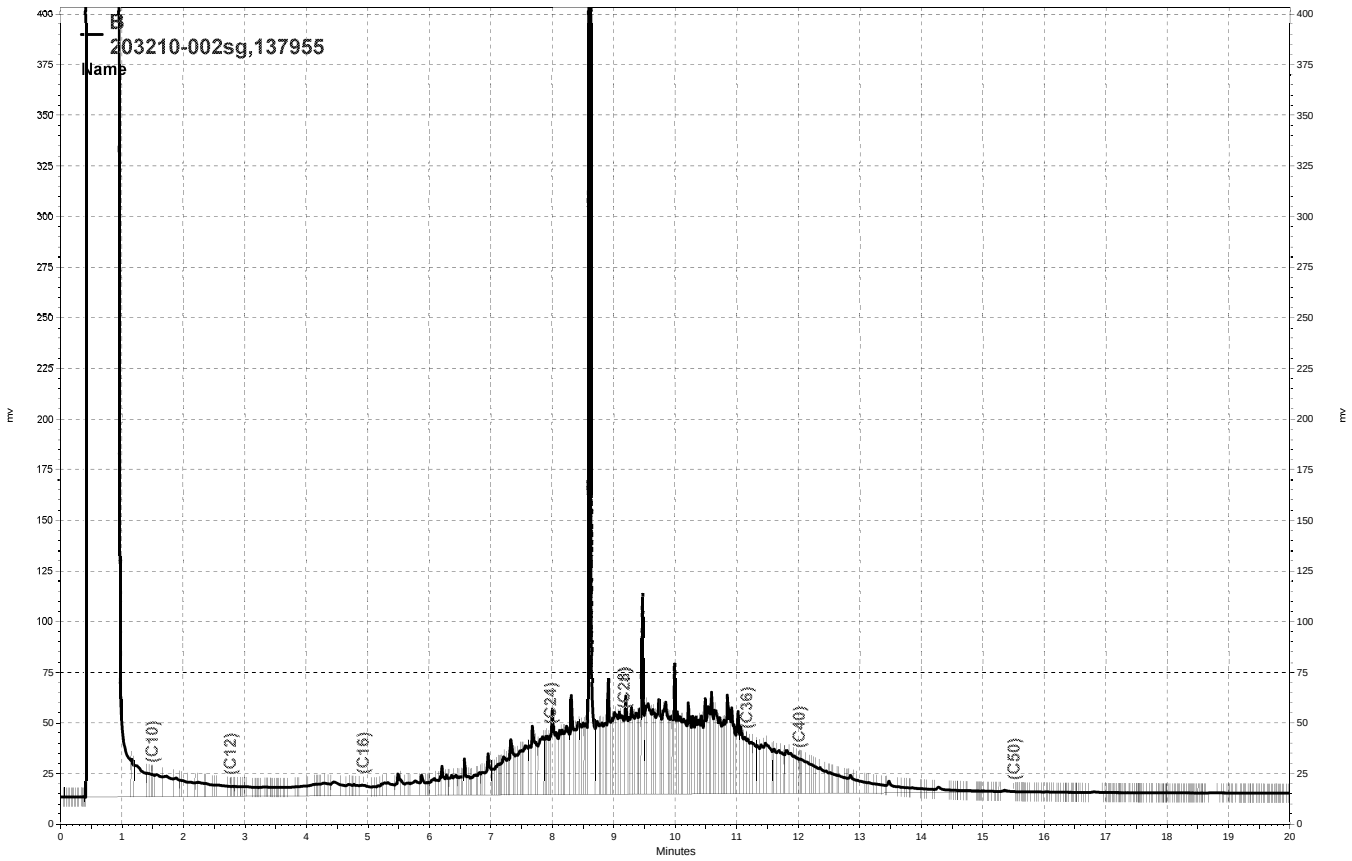
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	49.88	43.08	82	65-135	12	35

Surrogate	%REC	Limits
Hexacosane	89	65-135

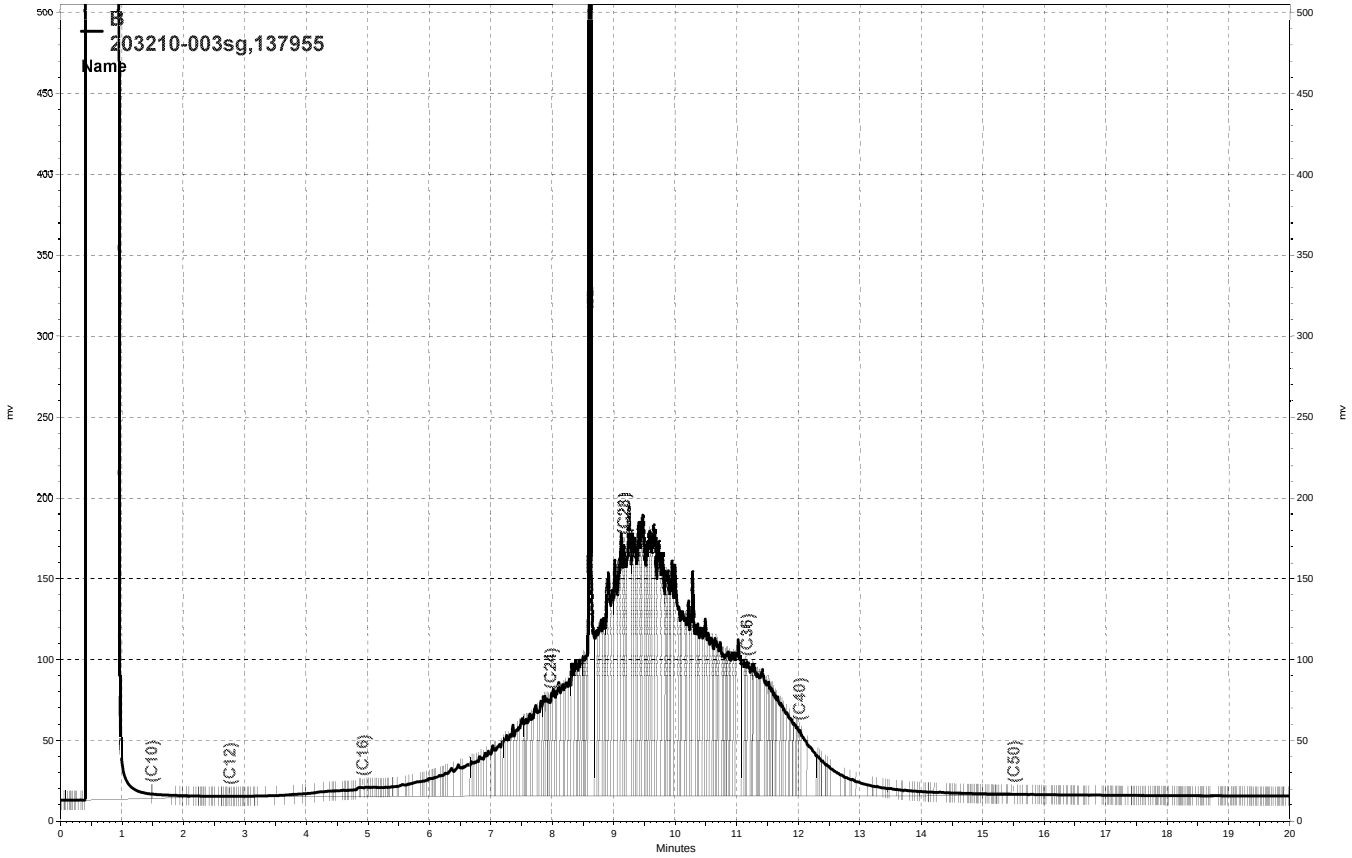
RPD= Relative Percent Difference



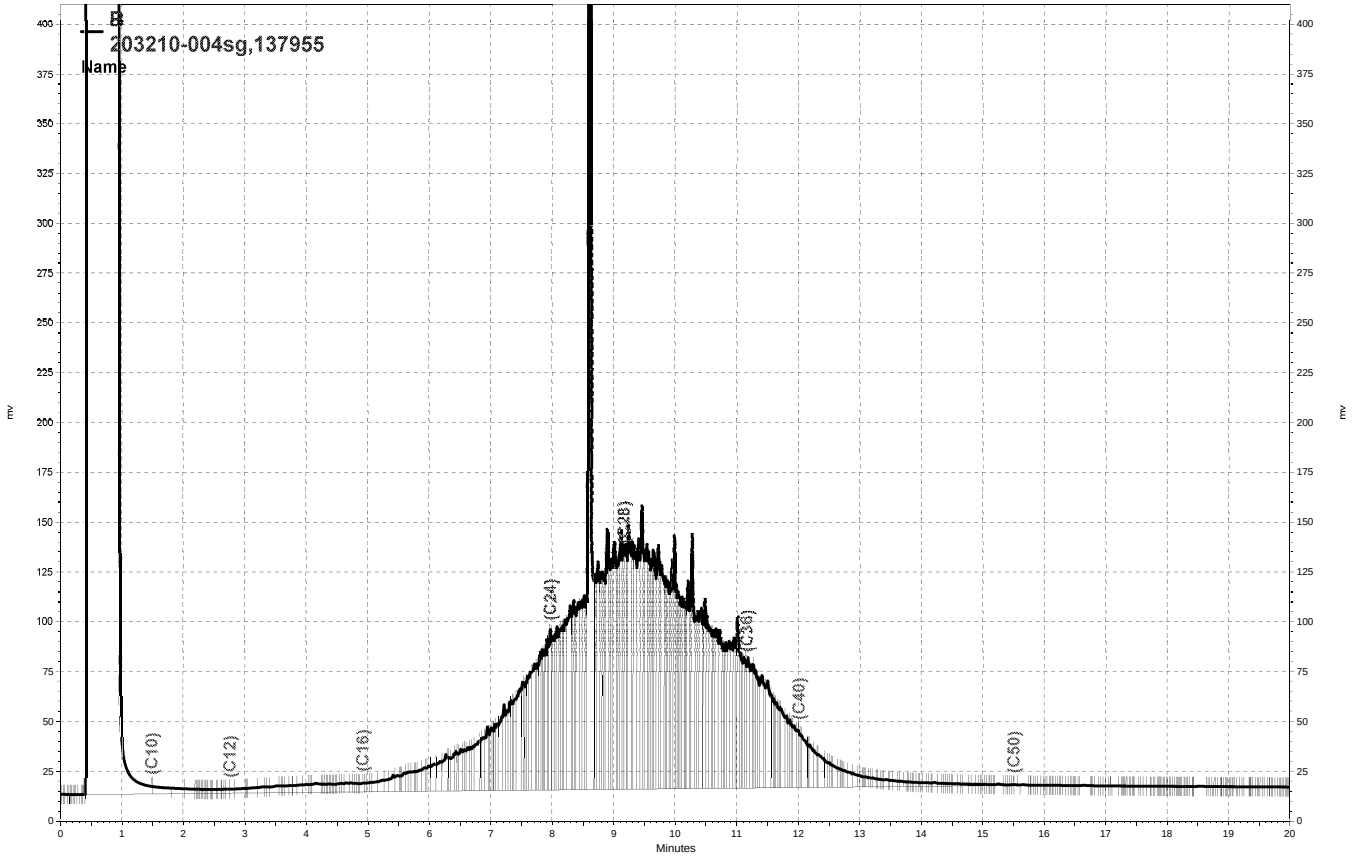
\\Lims\gdrive\ezchrom\Projects\GC11A\Data\132a010, A



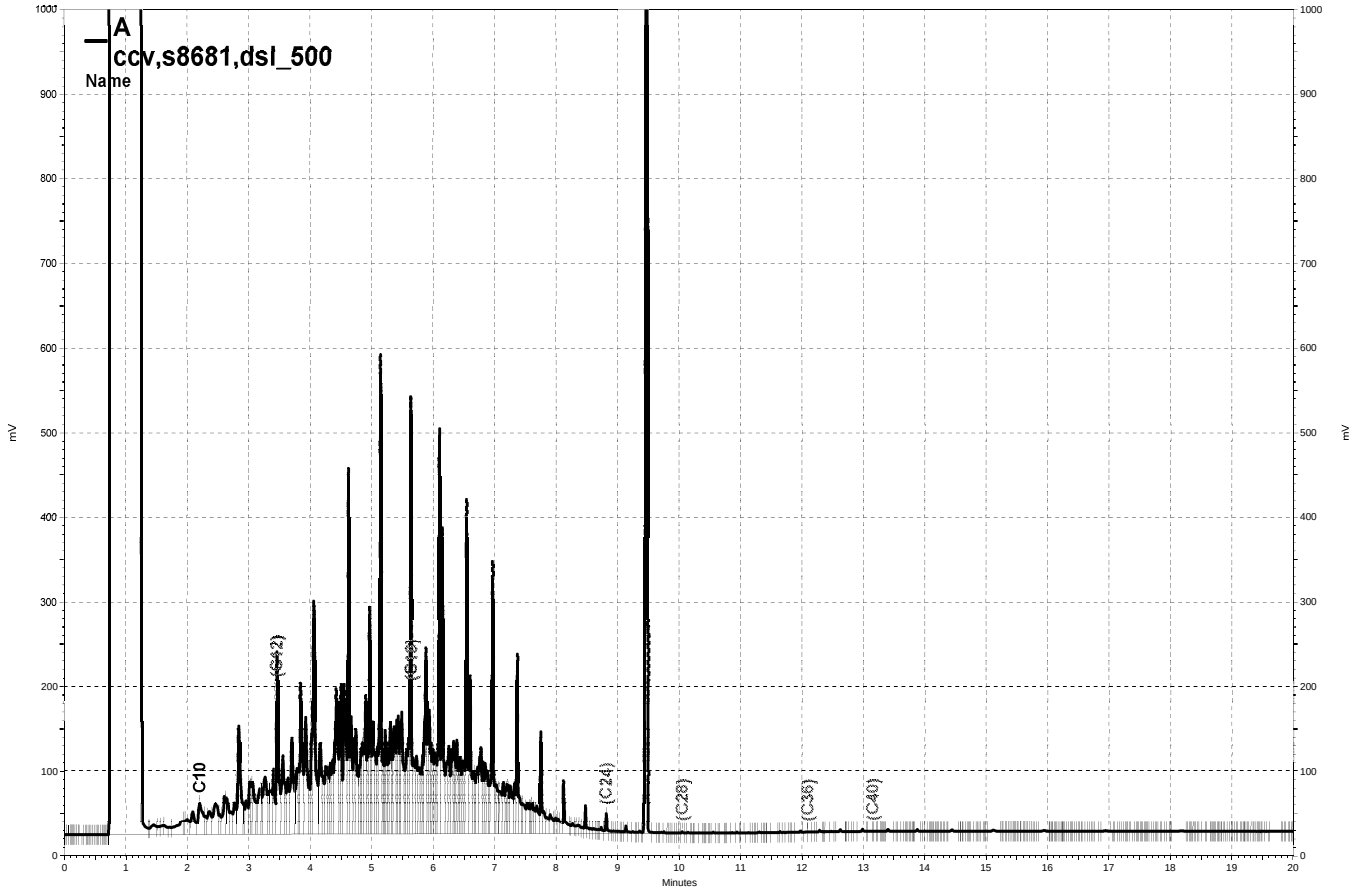
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\132b010, B



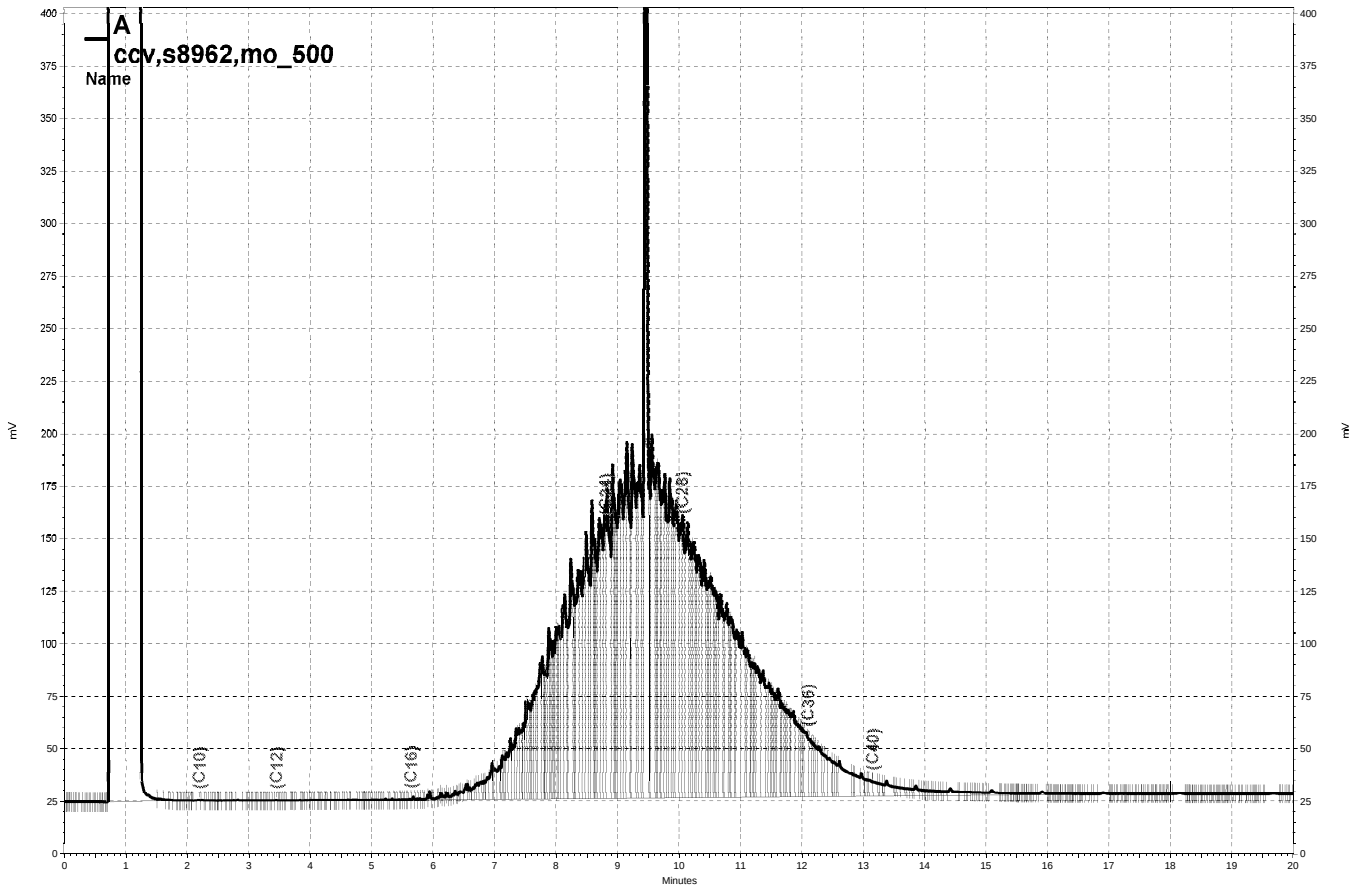
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\132b009, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\132b017, B



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\132a006, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\132a005, A

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX368[8.0]	Diln Fac:	0.8772
Lab ID:	203210-001	Batch#:	137972
Matrix:	Soil	Sampled:	05/09/08
Units:	ug/Kg	Received:	05/09/08
Basis:	dry	Analyzed:	05/11/08

Moisture: 18%

Analyte	Result	RL	MDL
Freon 12	ND	11	1.2
Chloromethane	ND	11	0.48
Vinyl Chloride	ND	11	0.42
Bromomethane	ND	11	0.42
Chloroethane	ND	11	0.37
Trichlorofluoromethane	ND	5.3	0.61
Acetone	13 J	21	1.6
Freon 113	ND	5.3	0.48
1,1-Dichloroethene	ND	5.3	0.52
Methylene Chloride	2.4 J	21	0.65
Carbon Disulfide	ND	5.3	0.83
MTBE	ND	5.3	0.65
trans-1,2-Dichloroethene	ND	5.3	0.78
Vinyl Acetate	ND	53	0.61
1,1-Dichloroethane	ND	5.3	0.81
2-Butanone	2.7 J	11	0.87
cis-1,2-Dichloroethene	ND	5.3	0.87
2,2-Dichloropropane	ND	5.3	0.77
Chloroform	ND	5.3	0.85
Bromochloromethane	ND	5.3	0.86
1,1,1-Trichloroethane	ND	5.3	0.66
1,1-Dichloropropene	ND	5.3	0.60
Carbon Tetrachloride	ND	5.3	0.69
1,2-Dichloroethane	ND	5.3	0.89
Benzene	ND	5.3	0.76
Trichloroethene	ND	5.3	0.80
1,2-Dichloropropane	ND	5.3	0.72
Bromodichloromethane	ND	5.3	0.98
Dibromomethane	ND	5.3	0.78
4-Methyl-2-Pentanone	ND	11	0.61
cis-1,3-Dichloropropene	ND	5.3	0.69
Toluene	ND	5.3	0.56
trans-1,3-Dichloropropene	ND	5.3	0.74
1,1,2-Trichloroethane	ND	5.3	0.82
2-Hexanone	ND	11	0.65
1,3-Dichloropropane	ND	5.3	0.88
Tetrachloroethene	ND	5.3	0.79
Dibromochloromethane	ND	5.3	0.70
1,2-Dibromoethane	ND	5.3	0.75
Chlorobenzene	ND	5.3	0.64
1,1,1,2-Tetrachloroethane	ND	5.3	0.82
Ethylbenzene	ND	5.3	0.72
m,p-Xylenes	ND	5.3	1.3
o-Xylene	ND	5.3	0.55
Styrene	ND	5.3	0.61
Bromoform	ND	5.3	0.80
Isopropylbenzene	ND	5.3	0.47
1,1,2,2-Tetrachloroethane	ND	5.3	0.82
1,2,3-Trichloropropane	ND	5.3	0.73
Propylbenzene	ND	5.3	0.61

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX368[8.0]	Dil'n Fac:	0.8772
Lab ID:	203210-001	Batch#:	137972
Matrix:	Soil	Sampled:	05/09/08
Units:	ug/Kg	Received:	05/09/08
Basis:	dry	Analyzed:	05/11/08

Analyte	Result	RL	MDL
Bromobenzene	ND	5.3	0.71
1,3,5-Trimethylbenzene	ND	5.3	0.57
2-Chlorotoluene	ND	5.3	0.63
4-Chlorotoluene	ND	5.3	0.57
tert-Butylbenzene	ND	5.3	0.52
1,2,4-Trimethylbenzene	ND	5.3	0.56
sec-Butylbenzene	ND	5.3	0.45
para-Isopropyl Toluene	ND	5.3	0.48
1,3-Dichlorobenzene	ND	5.3	0.63
1,4-Dichlorobenzene	ND	5.3	0.73
n-Butylbenzene	ND	5.3	0.47
1,2-Dichlorobenzene	ND	5.3	0.69
1,2-Dibromo-3-Chloropropane	ND	5.3	0.78
1,2,4-Trichlorobenzene	ND	5.3	0.45
Hexachlorobutadiene	ND	5.3	0.60
Naphthalene	ND	5.3	0.36
1,2,3-Trichlorobenzene	ND	5.3	0.70

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-126
1,2-Dichloroethane-d4	90	76-137
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX369[8.0]	Diln Fac:	0.8651
Lab ID:	203210-002	Batch#:	137972
Matrix:	Soil	Sampled:	05/09/08
Units:	ug/Kg	Received:	05/09/08
Basis:	dry	Analyzed:	05/11/08

Moisture: 17%

Analyte	Result	RL	MDL
Freon 12	ND	10	1.2
Chloromethane	ND	10	0.47
Vinyl Chloride	ND	10	0.41
Bromomethane	ND	10	0.41
Chloroethane	ND	10	0.36
Trichlorofluoromethane	ND	5.2	0.59
Acetone	7.8 J	21	1.6
Freon 113	ND	5.2	0.46
1,1-Dichloroethene	ND	5.2	0.50
Methylene Chloride	0.93 J	21	0.64
Carbon Disulfide	ND	5.2	0.81
MTBE	ND	5.2	0.63
trans-1,2-Dichloroethene	ND	5.2	0.76
Vinyl Acetate	ND	52	0.60
1,1-Dichloroethane	ND	5.2	0.79
2-Butanone	2.2 J	10	0.85
cis-1,2-Dichloroethene	ND	5.2	0.84
2,2-Dichloropropane	ND	5.2	0.75
Chloroform	ND	5.2	0.83
Bromochloromethane	ND	5.2	0.84
1,1,1-Trichloroethane	ND	5.2	0.64
1,1-Dichloropropene	ND	5.2	0.58
Carbon Tetrachloride	ND	5.2	0.67
1,2-Dichloroethane	ND	5.2	0.87
Benzene	ND	5.2	0.74
Trichloroethene	ND	5.2	0.78
1,2-Dichloropropane	ND	5.2	0.70
Bromodichloromethane	ND	5.2	0.95
Dibromomethane	ND	5.2	0.76
4-Methyl-2-Pentanone	ND	10	0.60
cis-1,3-Dichloropropene	ND	5.2	0.67
Toluene	ND	5.2	0.54
trans-1,3-Dichloropropene	ND	5.2	0.72
1,1,2-Trichloroethane	ND	5.2	0.80
2-Hexanone	ND	10	0.64
1,3-Dichloropropane	ND	5.2	0.86
Tetrachloroethene	ND	5.2	0.77
Dibromochloromethane	ND	5.2	0.69
1,2-Dibromoethane	ND	5.2	0.73
Chlorobenzene	ND	5.2	0.62
1,1,1,2-Tetrachloroethane	ND	5.2	0.80
Ethylbenzene	ND	5.2	0.70
m,p-Xylenes	ND	5.2	1.3
o-Xylene	ND	5.2	0.53
Styrene	ND	5.2	0.59
Bromoform	ND	5.2	0.78
Isopropylbenzene	ND	5.2	0.46
1,1,2,2-Tetrachloroethane	ND	5.2	0.80
1,2,3-Trichloropropane	ND	5.2	0.72
Propylbenzene	ND	5.2	0.60

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX369[8.0]	Dil'n Fac:	0.8651
Lab ID:	203210-002	Batch#:	137972
Matrix:	Soil	Sampled:	05/09/08
Units:	ug/Kg	Received:	05/09/08
Basis:	dry	Analyzed:	05/11/08

Analyte	Result	RL	MDL
Bromobenzene	ND	5.2	0.70
1,3,5-Trimethylbenzene	ND	5.2	0.56
2-Chlorotoluene	ND	5.2	0.61
4-Chlorotoluene	ND	5.2	0.56
tert-Butylbenzene	ND	5.2	0.50
1,2,4-Trimethylbenzene	ND	5.2	0.54
sec-Butylbenzene	0.49 J	5.2	0.44
para-Isopropyl Toluene	ND	5.2	0.47
1,3-Dichlorobenzene	ND	5.2	0.61
1,4-Dichlorobenzene	ND	5.2	0.71
n-Butylbenzene	0.88 J	5.2	0.46
1,2-Dichlorobenzene	ND	5.2	0.68
1,2-Dibromo-3-Chloropropane	ND	5.2	0.76
1,2,4-Trichlorobenzene	ND	5.2	0.43
Hexachlorobutadiene	ND	5.2	0.58
Naphthalene	ND	5.2	0.35
1,2,3-Trichlorobenzene	ND	5.2	0.68

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-126
1,2-Dichloroethane-d4	86	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	107	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX370[8.0]	Diln Fac:	0.9785
Lab ID:	203210-003	Batch#:	137972
Matrix:	Soil	Sampled:	05/09/08
Units:	ug/Kg	Received:	05/09/08
Basis:	dry	Analyzed:	05/11/08

Moisture: 28%

Analyte	Result	RL	MDL
Freon 12	ND	14	1.5
Chloromethane	ND	14	0.61
Vinyl Chloride	ND	14	0.53
Bromomethane	ND	14	0.53
Chloroethane	ND	14	0.47
Trichlorofluoromethane	ND	6.8	0.77
Acetone	5.3 J	27	2.1
Freon 113	ND	6.8	0.61
1,1-Dichloroethene	ND	6.8	0.66
Methylene Chloride	0.87 J	27	0.83
Carbon Disulfide	ND	6.8	1.1
MTBE	ND	6.8	0.83
trans-1,2-Dichloroethene	ND	6.8	1.0
Vinyl Acetate	ND	68	0.78
1,1-Dichloroethane	ND	6.8	1.0
2-Butanone	1.4 J	14	1.1
cis-1,2-Dichloroethene	ND	6.8	1.1
2,2-Dichloropropane	ND	6.8	0.98
Chloroform	ND	6.8	1.1
Bromochloromethane	ND	6.8	1.1
1,1,1-Trichloroethane	ND	6.8	0.84
1,1-Dichloropropene	ND	6.8	0.76
Carbon Tetrachloride	ND	6.8	0.87
1,2-Dichloroethane	ND	6.8	1.1
Benzene	ND	6.8	0.96
Trichloroethene	ND	6.8	1.0
1,2-Dichloropropane	ND	6.8	0.92
Bromodichloromethane	ND	6.8	1.2
Dibromomethane	ND	6.8	0.99
4-Methyl-2-Pentanone	ND	14	0.78
cis-1,3-Dichloropropene	ND	6.8	0.87
Toluene	ND	6.8	0.71
trans-1,3-Dichloropropene	ND	6.8	0.94
1,1,2-Trichloroethane	ND	6.8	1.0
2-Hexanone	ND	14	0.83
1,3-Dichloropropane	ND	6.8	1.1
Tetrachloroethene	ND	6.8	1.0
Dibromochloromethane	ND	6.8	0.90
1,2-Dibromoethane	ND	6.8	0.95
Chlorobenzene	ND	6.8	0.81
1,1,1,2-Tetrachloroethane	ND	6.8	1.0
Ethylbenzene	ND	6.8	0.91
m,p-Xylenes	ND	6.8	1.7
o-Xylene	ND	6.8	0.70
Styrene	ND	6.8	0.77
Bromoform	ND	6.8	1.0
Isopropylbenzene	ND	6.8	0.59
1,1,2,2-Tetrachloroethane	ND	6.8	1.0
1,2,3-Trichloropropane	ND	6.8	0.93
Propylbenzene	ND	6.8	0.78

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX370[8.0]	Dil'n Fac:	0.9785
Lab ID:	203210-003	Batch#:	137972
Matrix:	Soil	Sampled:	05/09/08
Units:	ug/Kg	Received:	05/09/08
Basis:	dry	Analyzed:	05/11/08

Analyte	Result	RL	MDL
Bromobenzene	ND	6.8	0.91
1,3,5-Trimethylbenzene	ND	6.8	0.73
2-Chlorotoluene	ND	6.8	0.80
4-Chlorotoluene	ND	6.8	0.73
tert-Butylbenzene	ND	6.8	0.66
1,2,4-Trimethylbenzene	ND	6.8	0.71
sec-Butylbenzene	ND	6.8	0.57
para-Isopropyl Toluene	ND	6.8	0.61
1,3-Dichlorobenzene	ND	6.8	0.80
1,4-Dichlorobenzene	ND	6.8	0.93
n-Butylbenzene	ND	6.8	0.59
1,2-Dichlorobenzene	ND	6.8	0.88
1,2-Dibromo-3-Chloropropane	ND	6.8	0.99
1,2,4-Trichlorobenzene	ND	6.8	0.57
Hexachlorobutadiene	ND	6.8	0.76
Naphthalene	ND	6.8	0.45
1,2,3-Trichlorobenzene	ND	6.8	0.89

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-126
1,2-Dichloroethane-d4	83	76-137
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP050908	Diln Fac:	0.9615
Lab ID:	203210-004	Batch#:	137972
Matrix:	Soil	Sampled:	05/09/08
Units:	ug/Kg	Received:	05/09/08
Basis:	dry	Analyzed:	05/11/08

Moisture: 23%

Analyte	Result	RL	MDL
Freon 12	ND	12	1.4
Chloromethane	ND	12	0.56
Vinyl Chloride	ND	12	0.49
Bromomethane	ND	12	0.49
Chloroethane	ND	12	0.43
Trichlorofluoromethane	ND	6.2	0.71
Acetone	4.6 J	25	1.9
Freon 113	ND	6.2	0.56
1,1-Dichloroethene	ND	6.2	0.60
Methylene Chloride	0.77 J	25	0.76
Carbon Disulfide	ND	6.2	0.97
MTBE	ND	6.2	0.76
trans-1,2-Dichloroethene	ND	6.2	0.92
Vinyl Acetate	ND	62	0.72
1,1-Dichloroethane	ND	6.2	0.95
2-Butanone	1.2 J	12	1.0
cis-1,2-Dichloroethene	ND	6.2	1.0
2,2-Dichloropropane	ND	6.2	0.90
Chloroform	ND	6.2	1.0
Bromochloromethane	ND	6.2	1.0
1,1,1-Trichloroethane	ND	6.2	0.77
1,1-Dichloropropene	ND	6.2	0.70
Carbon Tetrachloride	ND	6.2	0.80
1,2-Dichloroethane	ND	6.2	1.0
Benzene	ND	6.2	0.88
Trichloroethene	ND	6.2	0.93
1,2-Dichloropropane	ND	6.2	0.84
Bromodichloromethane	ND	6.2	1.1
Dibromomethane	ND	6.2	0.91
4-Methyl-2-Pentanone	ND	12	0.72
cis-1,3-Dichloropropene	ND	6.2	0.80
Toluene	ND	6.2	0.65
trans-1,3-Dichloropropene	ND	6.2	0.86
1,1,2-Trichloroethane	ND	6.2	0.96
2-Hexanone	ND	12	0.76
1,3-Dichloropropane	ND	6.2	1.0
Tetrachloroethene	ND	6.2	0.92
Dibromochloromethane	ND	6.2	0.82
1,2-Dibromoethane	ND	6.2	0.88
Chlorobenzene	ND	6.2	0.75
1,1,1,2-Tetrachloroethane	ND	6.2	0.95
Ethylbenzene	ND	6.2	0.84
m,p-Xylenes	ND	6.2	1.5
o-Xylene	ND	6.2	0.64
Styrene	ND	6.2	0.71
Bromoform	ND	6.2	0.94
Isopropylbenzene	ND	6.2	0.55
1,1,2,2-Tetrachloroethane	ND	6.2	0.95
1,2,3-Trichloropropane	ND	6.2	0.86
Propylbenzene	ND	6.2	0.71

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	DUP050908	Dil'n Fac:	0.9615
Lab ID:	203210-004	Batch#:	137972
Matrix:	Soil	Sampled:	05/09/08
Units:	ug/Kg	Received:	05/09/08
Basis:	dry	Analyzed:	05/11/08

Analyte	Result	RL	MDL
Bromobenzene	ND	6.2	0.83
1,3,5-Trimethylbenzene	ND	6.2	0.67
2-Chlorotoluene	ND	6.2	0.73
4-Chlorotoluene	ND	6.2	0.67
tert-Butylbenzene	ND	6.2	0.60
1,2,4-Trimethylbenzene	ND	6.2	0.65
sec-Butylbenzene	ND	6.2	0.53
para-Isopropyl Toluene	ND	6.2	0.56
1,3-Dichlorobenzene	ND	6.2	0.74
1,4-Dichlorobenzene	ND	6.2	0.85
n-Butylbenzene	ND	6.2	0.55
1,2-Dichlorobenzene	ND	6.2	0.81
1,2-Dibromo-3-Chloropropane	ND	6.2	0.91
1,2,4-Trichlorobenzene	ND	6.2	0.52
Hexachlorobutadiene	ND	6.2	0.70
Naphthalene	ND	6.2	0.41
1,2,3-Trichlorobenzene	ND	6.2	0.82

Surrogate	%REC	Limits
Dibromofluoromethane	97	78-126
1,2-Dichloroethane-d4	85	76-137
Toluene-d8	98	80-120
Bromofluorobenzene	101	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC441136	Diln Fac:	1.000
Matrix:	Soil	Batch#:	137972
Units:	ug/Kg	Analyzed:	05/11/08

Analyte	Result	RL	MDL
Freon 12	ND	10	1.1
Chloromethane	ND	10	0.45
Vinyl Chloride	ND	10	0.39
Bromomethane	ND	10	0.39
Chloroethane	ND	10	0.35
Trichlorofluoromethane	ND	5.0	0.57
Acetone	ND	20	1.5
Freon 113	ND	5.0	0.45
1,1-Dichloroethene	ND	5.0	0.48
Methylene Chloride	1.4 J	20	0.61
Carbon Disulfide	ND	5.0	0.78
MTBE	ND	5.0	0.61
trans-1,2-Dichloroethene	ND	5.0	0.73
Vinyl Acetate	ND	50	0.57
1,1-Dichloroethane	ND	5.0	0.76
2-Butanone	ND	10	0.81
cis-1,2-Dichloroethene	ND	5.0	0.81
2,2-Dichloropropane	ND	5.0	0.72
Chloroform	ND	5.0	0.80
Bromochloromethane	ND	5.0	0.80
1,1,1-Trichloroethane	ND	5.0	0.62
1,1-Dichloropropene	ND	5.0	0.56
Carbon Tetrachloride	ND	5.0	0.64
1,2-Dichloroethane	ND	5.0	0.83
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.74
1,2-Dichloropropane	ND	5.0	0.67
Bromodichloromethane	ND	5.0	0.91
Dibromomethane	ND	5.0	0.73
4-Methyl-2-Pentanone	ND	10	0.57
cis-1,3-Dichloropropene	ND	5.0	0.64
Toluene	ND	5.0	0.52
trans-1,3-Dichloropropene	ND	5.0	0.69
1,1,2-Trichloroethane	ND	5.0	0.77
2-Hexanone	ND	10	0.61
1,3-Dichloropropane	ND	5.0	0.82
Tetrachloroethene	ND	5.0	0.74
Dibromochloromethane	ND	5.0	0.66
1,2-Dibromoethane	ND	5.0	0.70
Chlorobenzene	ND	5.0	0.60
1,1,1,2-Tetrachloroethane	ND	5.0	0.76
Ethylbenzene	ND	5.0	0.67
m,p-Xylenes	ND	5.0	1.2
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.57
Bromoform	ND	5.0	0.75
Isopropylbenzene	ND	5.0	0.44
1,1,2,2-Tetrachloroethane	ND	5.0	0.76
1,2,3-Trichloropropane	ND	5.0	0.69
Propylbenzene	ND	5.0	0.57
Bromobenzene	ND	5.0	0.67
1,3,5-Trimethylbenzene	ND	5.0	0.54

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC441136	Diln Fac:	1.000
Matrix:	Soil	Batch#:	137972
Units:	ug/Kg	Analyzed:	05/11/08

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.59
4-Chlorotoluene	ND	5.0	0.54
tert-Butylbenzene	ND	5.0	0.48
1,2,4-Trimethylbenzene	ND	5.0	0.52
sec-Butylbenzene	ND	5.0	0.42
para-Isopropyl Toluene	ND	5.0	0.45
1,3-Dichlorobenzene	ND	5.0	0.59
1,4-Dichlorobenzene	ND	5.0	0.68
n-Butylbenzene	ND	5.0	0.44
1,2-Dichlorobenzene	ND	5.0	0.65
1,2-Dibromo-3-Chloropropane	ND	5.0	0.73
1,2,4-Trichlorobenzene	ND	5.0	0.42
Hexachlorobutadiene	ND	5.0	0.56
Naphthalene	0.36 J	5.0	0.33
1,2,3-Trichlorobenzene	ND	5.0	0.65

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-126
1,2-Dichloroethane-d4	84	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-121

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	137972
Basis:	as received	Analyzed:	05/11/08

Type: BS Lab ID: QC441137

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	22.30	89	71-133
Benzene	25.00	24.98	100	79-123
Trichloroethene	25.00	24.16	97	79-124
Toluene	25.00	25.32	101	80-123
Chlorobenzene	25.00	26.17	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-126
1,2-Dichloroethane-d4	81	76-137
Toluene-d8	95	80-120
Bromofluorobenzene	101	80-121

Type: BSD Lab ID: QC441138

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	21.42	86	71-133	4	20
Benzene	25.00	24.78	99	79-123	1	20
Trichloroethene	25.00	23.31	93	79-124	4	20
Toluene	25.00	25.04	100	80-123	1	20
Chlorobenzene	25.00	25.67	103	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-126
1,2-Dichloroethane-d4	83	76-137
Toluene-d8	96	80-120
Bromofluorobenzene	99	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX368[8.0]	Batch#:	137972
MSS Lab ID:	203210-001	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	ug/Kg	Analyzed:	05/12/08
Basis:	as received		

Type: MS Diln Fac: 0.9921
Lab ID: QC441160

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4248	49.60	43.95	89	55-139
Benzene	<0.6216	49.60	44.02	89	55-120
Trichloroethene	<0.6525	49.60	43.61	88	47-140
Toluene	<0.4584	49.60	42.97	87	52-121
Chlorobenzene	<0.5243	49.60	43.63	88	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-126
1,2-Dichloroethane-d4	77	76-137
Toluene-d8	92	80-120
Bromofluorobenzene	102	80-121

Type: MSD Diln Fac: 0.9843
Lab ID: QC441161

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.21	48.02	98	55-139	10	29
Benzene	49.21	47.67	97	55-120	9	26
Trichloroethene	49.21	46.93	95	47-140	8	28
Toluene	49.21	46.32	94	52-121	8	29
Chlorobenzene	49.21	46.77	95	47-120	8	29

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-126
1,2-Dichloroethane-d4	77	76-137
Toluene-d8	92	80-120
Bromofluorobenzene	104	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX368[8.0]	Batch#:	138021
Lab ID:	203210-001	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	ug/Kg	Prepared:	05/12/08
Basis:	dry	Analyzed:	05/13/08
Diln Fac:	1.000		

Moisture: 18%

Analyte	Result	RL	MDL
Naphthalene	3.3 J	6.1	1.2
2-Methylnaphthalene	1.8 J	6.1	1.0
Acenaphthylene	ND	6.1	0.77
Acenaphthene	1.1 J	6.1	1.0
Fluorene	ND	6.1	1.0
Phenanthrene	4.1 J	6.1	1.0
Anthracene	ND	6.1	0.91
Fluoranthene	4.9 J	6.1	0.98
Pyrene	9.2	6.1	0.87
Benzo(a)anthracene	2.0 J	6.1	0.92
Chrysene	3.6 J	6.1	0.95
Benzo(b)fluoranthene	3.7 J	6.1	1.4
Benzo(k)fluoranthene	ND	6.1	1.3
Benzo(a)pyrene	2.4 J	6.1	0.74
Indeno(1,2,3-cd)pyrene	1.8 J b	6.1	1.0
Dibenz(a,h)anthracene	ND	6.1	1.1
Benzo(g,h,i)perylene	2.6 J	6.1	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	114	23-120
2-Fluorobiphenyl	91	30-115
Terphenyl-d14	104	18-137

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX369[8.0]	Batch#:	138021
Lab ID:	203210-002	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	ug/Kg	Prepared:	05/12/08
Basis:	dry	Analyzed:	05/13/08
Diln Fac:	1.000		

Moisture: 17%

Analyte	Result	RL	MDL
Naphthalene	14	6.0	0.41
2-Methylnaphthalene	8.1	6.0	0.29
Acenaphthylene	0.87 J	6.0	0.43
Acenaphthene	2.2 J	6.0	0.37
Fluorene	1.2 J	6.0	0.39
Phenanthrene	9.7	6.0	0.35
Anthracene	3.3 J	6.0	1.5
Fluoranthene	12	6.0	0.75
Pyrene	16	6.0	0.68
Benzo(a)anthracene	21	6.0	0.96
Chrysene	22	6.0	0.40
Benzo(b)fluoranthene	70	6.0	1.4
Benzo(k)fluoranthene	15	6.0	0.87
Benzo(a)pyrene	40	6.0	1.6
Indeno(1,2,3-cd)pyrene	85	6.0	1.0
Dibenz(a,h)anthracene	22	6.0	1.0
Benzo(g,h,i)perylene	110	6.0	0.95

Surrogate	%REC	Limits
Nitrobenzene-d5	72	23-120
2-Fluorobiphenyl	87	30-115
Terphenyl-d14	95	18-137

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX370[8.0]	Batch#:	138021
Lab ID:	203210-003	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	ug/Kg	Prepared:	05/12/08
Basis:	dry	Analyzed:	05/13/08
Diln Fac:	1.000		

Moisture: 28%

Analyte	Result	RL	MDL
Naphthalene	2.6 J	6.9	0.47
2-Methylnaphthalene	1.8 J	6.9	0.34
Acenaphthylene	1.5 J	6.9	0.50
Acenaphthene	ND	6.9	0.42
Fluorene	ND	6.9	0.45
Phenanthrene	5.5 J	6.9	0.41
Anthracene	ND	6.9	1.8
Fluoranthene	17	6.9	0.86
Pyrene	23	6.9	0.78
Benzo(a)anthracene	10	6.9	1.1
Chrysene	16	6.9	0.46
Benzo(b)fluoranthene	41	6.9	1.6
Benzo(k)fluoranthene	9.6	6.9	1.0
Benzo(a)pyrene	19	6.9	1.8
Indeno(1,2,3-cd)pyrene	27	6.9	1.2
Dibenz(a,h)anthracene	4.5 J	6.9	1.2
Benzo(g,h,i)perylene	41	6.9	1.1

Surrogate	%REC	Limits
Nitrobenzene-d5	99	23-120
2-Fluorobiphenyl	87	30-115
Terphenyl-d14	96	18-137

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	DUP050908	Batch#:	138021
Lab ID:	203210-004	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	ug/Kg	Prepared:	05/12/08
Basis:	dry	Analyzed:	05/13/08
Diln Fac:	1.000		

Moisture: 23%

Analyte	Result	RL	MDL
Naphthalene	ND	6.5	1.2
2-Methylnaphthalene	ND	6.5	1.1
Acenaphthylene	ND	6.5	0.82
Acenaphthene	ND	6.5	1.1
Fluorene	ND	6.5	1.1
Phenanthrene	ND	6.5	1.1
Anthracene	ND	6.5	0.97
Fluoranthene	ND	6.5	1.0
Pyrene	ND	6.5	0.93
Benzo(a)anthracene	ND	6.5	0.98
Chrysene	ND	6.5	1.0
Benzo(b)fluoranthene	ND	6.5	1.5
Benzo(k)fluoranthene	ND	6.5	1.3
Benzo(a)pyrene	ND	6.5	0.79
Indeno(1,2,3-cd)pyrene	ND	6.5	1.1
Dibenz(a,h)anthracene	ND	6.5	1.1
Benzo(g,h,i)perylene	ND	6.5	1.3

Surrogate	%REC	Limits
Nitrobenzene-d5	117	23-120
2-Fluorobiphenyl	86	30-115
Terphenyl-d14	122	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC441335	Batch#:	138021
Matrix:	Soil	Prepared:	05/12/08
Units:	ug/Kg	Analyzed:	05/13/08
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.94
2-Methylnaphthalene	ND	5.0	0.82
Acenaphthylene	ND	5.0	0.63
Acenaphthene	ND	5.0	0.84
Fluorene	ND	5.0	0.85
Phenanthrene	ND	5.0	0.85
Anthracene	ND	5.0	0.75
Fluoranthene	ND	5.0	0.81
Pyrene	ND	5.0	0.71
Benzo(a)anthracene	ND	5.0	0.75
Chrysene	ND	5.0	0.78
Benzo(b)fluoranthene	ND	5.0	1.2
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	0.60
Indeno(1,2,3-cd)pyrene	ND	5.0	0.84
Dibenz(a,h)anthracene	ND	5.0	0.87
Benzo(g,h,i)perylene	ND	5.0	1.0

Surrogate	%REC	Limits
Nitrobenzene-d5	101	23-120
2-Fluorobiphenyl	95	30-115
Terphenyl-d14	103	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC441336	Batch#:	138021
Matrix:	Soil	Prepared:	05/12/08
Units:	ug/Kg	Analyzed:	05/13/08
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	32.91	27.71	84	31-137
Pyrene	32.91	27.57	84	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	102	23-120
2-Fluorobiphenyl	91	30-115
Terphenyl-d14	89	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	138021
MSS Lab ID:	203131-003	Sampled:	05/05/08
Matrix:	Soil	Received:	05/08/08
Units:	ug/Kg	Prepared:	05/12/08
Basis:	dry	Analyzed:	05/15/08
Diln Fac:	1.000		

Type: MS Moisture: 42%
Lab ID: QC441337

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.438	57.09	40.77	71	31-137
Pyrene	1.448	57.09	47.46	81	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	92	23-120
2-Fluorobiphenyl	78	30-115
Terphenyl-d14	80	18-137

Type: MSD Moisture: 42%
Lab ID: QC441338

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	57.19	48.06	84	31-137	16	19
Pyrene	57.19	57.03	97	35-142	18	36

Surrogate	%REC	Limits
Nitrobenzene-d5	115	23-120
2-Fluorobiphenyl	92	30-115
Terphenyl-d14	96	18-137

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX368[8.0]	Batch#:	138021
MSS Lab ID:	203210-001	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	ug/Kg	Prepared:	05/12/08
Basis:	dry	Analyzed:	05/13/08
Diln Fac:	1.000		

Type: MS Moisture: 18%
Lab ID: QC441339

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	1.072	40.57	34.93	83	31-137
Pyrene	9.194	40.57	38.46	72	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	105	23-120
2-Fluorobiphenyl	88	30-115
Terphenyl-d14	95	18-137

Type: MSD Moisture: 18%
Lab ID: QC441340

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	40.53	37.83	91	31-137	8	19
Pyrene	40.53	41.25	79	35-142	7	36

Surrogate	%REC	Limits
Nitrobenzene-d5	104	23-120
2-Fluorobiphenyl	95	30-115
Terphenyl-d14	104	18-137

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	203210	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-Trench
Field ID:	1065EX368[8.0]	Diln Fac:	1.000
Lab ID:	203210-001	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	mg/Kg	Prepared:	05/12/08
Basis:	dry		

Moisture: 18%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.61	0.098	138024	05/13/08	EPA 3050B	EPA 6010B
Arsenic	2.8	0.32	0.11	138024	05/13/08	EPA 3050B	EPA 6010B
Barium	42	0.30	0.024	138024	05/13/08	EPA 3050B	EPA 6010B
Beryllium	0.15	0.12	0.0027	138024	05/13/08	EPA 3050B	EPA 6010B
Cadmium	0.56	0.30	0.027	138024	05/13/08	EPA 3050B	EPA 6010B
Chromium	54	0.30	0.033	138024	05/13/08	EPA 3050B	EPA 6010B
Cobalt	7.1	0.30	0.024	138024	05/13/08	EPA 3050B	EPA 6010B
Copper	6.1	0.32	0.11	138024	05/13/08	EPA 3050B	EPA 6010B
Lead	8.4	0.21	0.069	138024	05/13/08	EPA 3050B	EPA 6010B
Mercury	0.084	0.024	0.0051	138000	05/12/08	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.057	138024	05/13/08	EPA 3050B	EPA 6010B
Nickel	40	0.30	0.027	138024	05/13/08	EPA 3050B	EPA 6010B
Selenium	ND	0.61	0.053	138024	05/13/08	EPA 3050B	EPA 6010B
Silver	0.13 J	0.30	0.064	138024	05/13/08	EPA 3050B	EPA 6010B
Thallium	ND	0.61	0.096	138024	05/13/08	EPA 3050B	EPA 6010B
Vanadium	34	0.30	0.034	138024	05/13/08	EPA 3050B	EPA 6010B
Zinc	26	1.2	0.040	138024	05/13/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	203210	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-Trench
Field ID:	1065EX369[8.0]	Diln Fac:	1.000
Lab ID:	203210-002	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	mg/Kg	Prepared:	05/12/08
Basis:	dry		

Moisture: 17%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.60	0.10	138024	05/13/08	EPA 3050B	EPA 6010B
Arsenic	2.6	0.33	0.11	138024	05/13/08	EPA 3050B	EPA 6010B
Barium	43	0.30	0.025	138024	05/13/08	EPA 3050B	EPA 6010B
Beryllium	0.17	0.12	0.0028	138024	05/13/08	EPA 3050B	EPA 6010B
Cadmium	0.55	0.30	0.028	138024	05/13/08	EPA 3050B	EPA 6010B
Chromium	50	0.30	0.034	138024	05/13/08	EPA 3050B	EPA 6010B
Cobalt	6.4	0.30	0.025	138024	05/13/08	EPA 3050B	EPA 6010B
Copper	13	0.33	0.11	138024	05/13/08	EPA 3050B	EPA 6010B
Lead	6.3	0.21	0.072	138024	05/13/08	EPA 3050B	EPA 6010B
Mercury	0.11	0.024	0.0045	138000	05/12/08	METHOD	EPA 7471A
Molybdenum	0.10 J	0.30	0.059	138024	05/13/08	EPA 3050B	EPA 6010B
Nickel	36	0.30	0.028	138024	05/13/08	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.055	138024	05/13/08	EPA 3050B	EPA 6010B
Silver	0.13 J	0.30	0.066	138024	05/13/08	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.099	138024	05/13/08	EPA 3050B	EPA 6010B
Vanadium	28	0.30	0.035	138024	05/13/08	EPA 3050B	EPA 6010B
Zinc	20	1.2	0.042	138024	05/13/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	203210	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-Trench
Field ID:	1065EX370[8.0]	Diln Fac:	1.000
Lab ID:	203210-003	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	mg/Kg	Prepared:	05/12/08
Basis:	dry		

Moisture: 28%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.69	0.11	138024	05/13/08	EPA 3050B	EPA 6010B
Arsenic	2.2	0.37	0.12	138024	05/13/08	EPA 3050B	EPA 6010B
Barium	71	0.35	0.028	138024	05/13/08	EPA 3050B	EPA 6010B
Beryllium	0.26	0.14	0.0031	138024	05/13/08	EPA 3050B	EPA 6010B
Cadmium	1.4	0.35	0.031	138024	05/13/08	EPA 3050B	EPA 6010B
Chromium	95	0.35	0.038	138024	05/13/08	EPA 3050B	EPA 6010B
Cobalt	8.4	0.35	0.027	138024	05/13/08	EPA 3050B	EPA 6010B
Copper	12	0.37	0.12	138024	05/13/08	EPA 3050B	EPA 6010B
Lead	9.2	0.24	0.080	138024	05/13/08	EPA 3050B	EPA 6010B
Mercury	0.43	0.028	0.0051	138000	05/12/08	METHOD	EPA 7471A
Molybdenum	ND	0.35	0.066	138024	05/13/08	EPA 3050B	EPA 6010B
Nickel	48	0.35	0.031	138024	05/13/08	EPA 3050B	EPA 6010B
Selenium	ND	0.69	0.061	138024	05/13/08	EPA 3050B	EPA 6010B
Silver	0.25 J	0.35	0.074	138024	05/13/08	EPA 3050B	EPA 6010B
Thallium	ND	0.69	0.11	138024	05/13/08	EPA 3050B	EPA 6010B
Vanadium	61	0.35	0.039	138024	05/13/08	EPA 3050B	EPA 6010B
Zinc	59	1.4	0.047	138024	05/13/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	203210	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065-Trench
Field ID:	DUP050908	Diln Fac:	1.000
Lab ID:	203210-004	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	mg/Kg	Prepared:	05/12/08
Basis:	dry		

Moisture: 23%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.65	0.11	138024	05/13/08	EPA 3050B	EPA 6010B
Arsenic	3.0	0.36	0.12	138024	05/13/08	EPA 3050B	EPA 6010B
Barium	74	0.32	0.027	138024	05/13/08	EPA 3050B	EPA 6010B
Beryllium	0.24	0.13	0.0030	138024	05/13/08	EPA 3050B	EPA 6010B
Cadmium	1.4	0.32	0.030	138024	05/13/08	EPA 3050B	EPA 6010B
Chromium	92	0.32	0.036	138024	05/13/08	EPA 3050B	EPA 6010B
Cobalt	8.4	0.32	0.026	138024	05/13/08	EPA 3050B	EPA 6010B
Copper	11	0.36	0.12	138024	05/13/08	EPA 3050B	EPA 6010B
Lead	11	0.23	0.076	138024	05/13/08	EPA 3050B	EPA 6010B
Mercury	0.012 J	0.026	0.0047	138000	05/12/08	METHOD	EPA 7471A
Molybdenum	ND	0.32	0.063	138024	05/13/08	EPA 3050B	EPA 6010B
Nickel	47	0.32	0.029	138024	05/13/08	EPA 3050B	EPA 6010B
Selenium	ND	0.65	0.058	138024	05/13/08	EPA 3050B	EPA 6010B
Silver	0.25 J	0.32	0.071	138024	05/13/08	EPA 3050B	EPA 6010B
Thallium	ND	0.65	0.11	138024	05/13/08	EPA 3050B	EPA 6010B
Vanadium	62	0.32	0.037	138024	05/13/08	EPA 3050B	EPA 6010B
Zinc	50	1.3	0.044	138024	05/13/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC441250	Batch#:	138000
Matrix:	Soil	Prepared:	05/12/08
Units:	mg/Kg	Analyzed:	05/12/08

Result	RL	MDL
ND	0.020	0.0047

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	138000
Units:	mg/Kg	Prepared:	05/12/08
Basis:	as received	Analyzed:	05/12/08

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC441251	0.5000	0.5080	102	75-125		
BSD	QC441252	0.5000	0.5130	103	75-125	1	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Field ID:	1065EX368[8.0]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	138000
MSS Lab ID:	203210-001	Sampled:	05/09/08
Lab ID:	QC441253	Received:	05/09/08
Matrix:	Soil	Analyzed:	05/12/08
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	% Diff	Lim
0.06929	0.02000	ND	0.08929	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	1065EX368[8.0]	Batch#:	138000
MSS Lab ID:	203210-001	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	mg/Kg	Prepared:	05/12/08
Basis:	as received	Analyzed:	05/12/08

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC441254	0.06929	0.4630	0.5194	97	75-125		
MSD	QC441255		0.3731	0.4201	94	75-125	3	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC441350	Batch#:	138024
Matrix:	Soil	Prepared:	05/12/08
Units:	mg/Kg	Analyzed:	05/13/08
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.087
Arsenic	ND	0.29	0.096
Barium	ND	0.25	0.022
Beryllium	ND	0.10	0.0024
Cadmium	ND	0.25	0.024
Chromium	ND	0.25	0.029
Cobalt	ND	0.25	0.021
Copper	ND	0.29	0.096
Lead	ND	0.19	0.062
Molybdenum	ND	0.25	0.051
Nickel	ND	0.25	0.024
Selenium	0.13 J	0.50	0.047
Silver	ND	0.25	0.057
Thallium	ND	0.50	0.086
Vanadium	ND	0.25	0.030
Zinc	0.11 J	1.0	0.036

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	138024
Units:	mg/Kg	Prepared:	05/12/08
Basis:	as received	Analyzed:	05/13/08
Diln Fac:	1.000		

Type: BS Lab ID: QC441351

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.17	95	75-125
Arsenic	50.00	49.23	98	75-125
Barium	100.0	97.67	98	75-125
Beryllium	2.500	2.593	104	75-125
Cadmium	10.00	10.02	100	75-125
Chromium	100.0	96.74	97	75-125
Cobalt	25.00	23.62	94	75-125
Copper	12.50	11.95	96	75-125
Lead	100.0	94.66	95	75-125
Molybdenum	20.00	19.90	99	75-125
Nickel	25.00	23.67	95	75-125
Selenium	50.00	49.36	99	75-125
Silver	10.00	9.118	91	75-125
Thallium	50.00	48.27	97	75-125
Vanadium	25.00	24.05	96	75-125
Zinc	25.00	24.71	99	75-125

Type: BSD Lab ID: QC441352

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	92.29	92	75-125	3	30
Arsenic	50.00	47.55	95	75-125	3	30
Barium	100.0	93.71	94	75-125	4	30
Beryllium	2.500	2.473	99	75-125	5	30
Cadmium	10.00	9.600	96	75-125	4	30
Chromium	100.0	92.44	92	75-125	5	30
Cobalt	25.00	22.58	90	75-125	5	30
Copper	12.50	11.39	91	75-125	5	30
Lead	100.0	91.01	91	75-125	4	30
Molybdenum	20.00	19.10	95	75-125	4	30
Nickel	25.00	22.67	91	75-125	4	30
Selenium	50.00	47.14	94	75-125	5	30
Silver	10.00	8.751	88	75-125	4	30
Thallium	50.00	46.02	92	75-125	5	30
Vanadium	25.00	23.01	92	75-125	4	30
Zinc	25.00	23.72	95	75-125	4	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX368[8.0]	Batch#:	138024
MSS Lab ID:	203210-001	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	mg/Kg	Prepared:	05/12/08
Basis:	as received	Analyzed:	05/13/08
Diln Fac:	1.000		

Type: MS Lab ID: QC441353

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.07998	93.46	60.75	65 *	75-125
Arsenic	2.263	46.73	49.19	100	75-125
Barium	34.63	93.46	134.2	107	75-125
Beryllium	0.1268	2.336	2.616	107	75-125
Cadmium	0.4577	9.346	9.726	99	75-125
Chromium	44.20	93.46	145.4	108	75-125
Cobalt	5.835	23.36	28.16	96	75-125
Copper	4.970	11.68	17.44	107	75-125
Lead	6.916	93.46	92.02	91	75-125
Molybdenum	<0.04657	18.69	18.07	97	75-125
Nickel	32.71	23.36	61.67	124 P	75-125
Selenium	<0.04324	46.73	46.17	99	75-125
Silver	0.1043	9.346	8.873	94	75-125
Thallium	<0.07854	46.73	42.67	91	75-125
Vanadium	27.54	23.36	57.39	128 * P	75-125
Zinc	21.57	23.36	47.87	113	75-125

Type: MSD Lab ID: QC441354

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	67.28	67 *	75-125	3	30
Arsenic	50.00	52.82	101	75-125	1	30
Barium	100.0	138.9	104	75-125	2	30
Beryllium	2.500	2.800	107	75-125	0	30
Cadmium	10.00	10.54	101	75-125	2	30
Chromium	100.0	149.8	106	75-125	2	30
Cobalt	25.00	29.75	96	75-125	0	30
Copper	12.50	18.09	105	75-125	1	30
Lead	100.0	99.76	93	75-125	2	30
Molybdenum	20.00	19.53	98	75-125	1	30
Nickel	25.00	61.63	116 P	75-125	3	30
Selenium	50.00	50.30	101	75-125	2	30
Silver	10.00	9.556	95	75-125	1	30
Thallium	50.00	46.88	94	75-125	3	30
Vanadium	25.00	57.14	118 P	75-125	4	30
Zinc	25.00	47.77	105	75-125	4	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX368[8.0]	Basis:	as received
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	203210-001	Batch#:	138024
Lab ID:	QC441355	Sampled:	05/09/08
Matrix:	Soil	Received:	05/09/08
Units:	mg/Kg	Analyzed:	05/13/08

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	ND	0.5000	0.8793 J	1.200	NC	10
Arsenic	2.263	0.2642	2.799	1.321	NC	10
Barium	34.63	0.2500	36.82	1.147	6	10
Beryllium	0.1268	0.1000	0.1554 J	0.4587	23 *	10
Cadmium	0.4577	0.2500	0.5005 J	1.147	NC	10
Chromium	44.20	0.2500	48.01	1.147	9	10
Cobalt	5.835	0.2500	6.441	1.147	10	10
Copper	4.970	0.2643	5.401	1.322	9	10
Lead	6.916	0.1702	7.727	0.8511	12 *	10
Molybdenum	ND	0.2500	ND	1.147	NC	10
Nickel	32.71	0.2500	35.56	1.147	9	10
Selenium	ND	0.5000	ND	1.147	NC	10
Silver	0.1043	0.2500	0.3419 J	1.147	NC	10
Thallium	ND	0.5000	ND	1.178	NC	10
Vanadium	27.54	0.2500	29.42	1.147	7	10
Zinc	21.57	1.000	23.37	4.587	8	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Moisture

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	138013
Matrix:	Soil	Sampled:	05/09/08
Units:	%	Received:	05/09/08
Diln Fac:	1.000	Analyzed:	05/12/08

Field ID	Lab ID	Result	RL
1065EX368[8.0]	203210-001	18	1
1065EX369[8.0]	203210-002	17	1
1065EX370[8.0]	203210-003	28	1
DUP050908	203210-004	23	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	203210	Location:	Bldg 1065-Trench
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	1065EX368[8.0]	Diln Fac:	1.000
Type:	SDUP	Batch#:	138013
MSS Lab ID:	203210-001	Sampled:	05/09/08
Lab ID:	QC441304	Received:	05/09/08
Matrix:	Soil	Analyzed:	05/12/08

MSS Result	Result	RL	RPD	Lim
18.46	18.24	1.000	1	15

RL= Reporting Limit
RPD= Relative Percent Difference

MACTEC

CHAIN OF CUSTODY RECORD

203210

3838

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME	JOB NO.
Building 1065-Trench	408407511.5 02.4
SAMPLERS (SIGNATURE)	SAMPLERS INITIALS (PRINT)
	SRG
SAMPLING DATE	

	TIME	GRAB	COMP	MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs (8260B)	TPHg (8015M) including BTEX & 5 Oxygenates	TPHd & TPHmo w/silica gel (8015M)	PAHs (8270-SIM)	Title 22 Metals	FOR LAB USE ONLY
1	855	X		SO	1065EX3685.0	145 45W-8	+MS/MSD	14	X	X	X	X	X	
2	1220	X		SO	1065EX3691.0	205 [illegible]W-8		7	X	X	X	X	X	
3	1420	X		SO	1065EX3705.0	215 93W-8		7	X	X	X	X	X	
4	1420	X		SO	DUP050908	215 93W-8		7	X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	5/8/08 1500		5/9/08 1532			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

Data Validation
TAT

For Lab Use Only

Are Custody Seals Present? Yes ☑ No ☐ N/A ☐ Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

intact on ice coldRC

F1008 (05/00)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 203210 Date Received 5/9/08 Number of coolers 1
Client MACTEC Project BLDG. 1065 - TRENCH

Date Opened 5/9/08 By (print) M. VILLANUEVA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)?..... YES NO
Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ NO
How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? ..... YES NO N/A
3. Were custody papers dry and intact when received?..... YES NO
4. Were custody papers filled out properly (ink, signed, etc)?..... YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form)..... YES NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A
Type of ice used: ☑ WET ☐ BLUE ☐ NONE Temp(°C) NO TRIP BLANK
☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.

8. Were soil Encore sampling devices present? ..... YES NO
If YES, what time were they transferred to freezer? 1715
9. Did all bottles arrive unbroken/unopened?..... YES NO
10. Are samples in the appropriate containers for indicated tests? ..... YES NO
11. Are sample labels present, in good condition and complete? ..... YES NO
12. Do the sample labels agree with custody papers? ..... YES NO
13. Was sufficient amount of sample sent for tests requested? ..... YES NO
14. Are the samples appropriately preserved? ..... YES NO N/A
15. Are bubbles absent in VOA samples?..... YES NO N/A
16. Was the client contacted concerning this sample delivery?..... YES NO
If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203251
ANALYTICAL REPORT

Mactec, Inc.	Project : 4084075115
5341 Old Redwood Hwy	Location : Bldg 1065 Presidio
Petaluma, CA 94954	Level : III

Sample ID	Lab ID
1065SD101[6.5]	203251-001
1065SD102[7.0]	203251-002
1065EX371[8.0]	203251-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 05/29/2008
Project Manager

Signature: _____ Date: 05/29/2008
Senior Program Manager

MACTEC

CHAIN OF CUSTODY RECORD

3839

203251

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Frah'cisco, CA ZIP:

PROJECT NAME: Building 1065
JOB NO.: 408407S115 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 5/13/07

	TIME	GRAB	COMP.	MATRIX*	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs 8260B BTEX & Chloroform; TPHg; TPHd TPHmo-silica gel; PAHs (8270 SIM); Title 22 Metals	FOR LAB USE ONLY
1	1050	X		SO	1065EX371[65]	3259SW-6.5	+MS/MSD	14	Hold	
2	1110	X		SO	1065EX372[70]	235 115W		7	Hold	
3	1130	X		SO	1065EX373[80]	215 102W		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	5/13/07 1310		5/13/07 13:10			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
48 hr TAT
on ice, intact

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

MACTEC REVISED CHAIN OF CUSTODY RECORD

3839

203251

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065
JOB NO.: 408407515 02.4
SAMPLERS (SIGNATURE): [signature]
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 5/13/07

	TIME	GRAB	COMP	MATRIX*	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs 8260B BTEX & Naphthalene; TPHg; TPHd/TPHmo-Silica gel; PAHs (8270 s.i.m.); Title 22 Metals	FOR LAB USE ONLY
1	1050	X		SO	SD101 1065[37]65	32598W-6.5	+MB/MSD	14	Hold	
2	1110	X		SO	SD102 1065[37]70	23515W		7	Hold	
3	1130	X		SO	1065[37]80	21S 102W		7	XXXXX	
					371					

MOH

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
[signature]	5/13/07 1310	[signature]	5/13/07 13:10			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS
Lvl 3 Data Validation
48 hr TAT
on ice/intact

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

Subject: RE: 4084075115 - C&T Login Summary (203251) - Please revise MACTEC sample IDs
From: "Heassler, Mary Jo" <MHeassler@mactec.com>
Date: Wed, 14 May 2008 12:44:13 -0400
To: "AMK for AMP" <anne@ctberk.com>
CC: "Evans, Kathleen" <KKEvans@mactec.com>, "Carlyon, Kristen" <KACARLYON@mactec.com>, "Graham, Scott" <SRGRAHAM@mactec.com>

Please change the MACTEC Sample IDs as follows
Laboratory Sample ID 203251-001 change MACTEC ID to 1065SD101[6.5]
Laboratory Sample ID 203251-002 change MACTEC ID to 1065SD102[7.0]
Laboratory Sample ID 203251-003 change MACTEC ID to 1065EX371[8.0]

Please see attached revised COC.

From: AMK for AMP [mailto:anne@ctberk.com]
Sent: Tuesday, May 13, 2008 5:35 PM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Evans, Kathleen; Hart, Mary; Albrecht, Frederic
Subject: 4084075115 - C&T Login Summary (203251)

C&T Login Summary for 203251

Project: 4084075115	**Report To:** Mactec, Inc.	**Bill To:** M
Site: Bldg 1065 Presidio	5341 Old Redwood Hwy	1
Lab Login #: 203251	Suite 300	S
Report Due: 05/15/08	Petaluma, CA 94954	A
PO#: 200704465	ATTN: Mary Jo Heassler	A
C&T Proj Mgr: Anna M. Pajarillo	(707) 793-3800	(

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	
1065EX371[6.5]	001	05/13	05/13			3839	ICP Okay
				Soil	HOLD		
1065EX372[7.0]	002	05/13	05/13			3839	ICP Okay
				Soil	HOLD		
1065EX373[8.0]	003	05/13	05/13			3839	ICP Okay
				Soil	8270-SIM		
				Soil	E8260		
				Soil	ETVH		
				Soil	MOISTURE		
				Soil	SILICA GEL		
				Soil	T26 MET		

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 203251 Date Received 5-13-08 Number of coolers 1
Client Mactec Project Building 1065

Date Opened 5-13-08 By (print) F Nichols (sign) [signature]
Date Logged in 5-13-08 By (print) _____ (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
   Shipping info _____
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? ..... YES NO (N/A)
3. Were custody papers dry and intact when received? ..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... (YES) NO N/A
   Type of ice used: ☒ WET ☐ BLUE ☐ NONE Temp(°C) No temp blank, Cold
   ☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.
8. Were soil Encore sampling devices present? ..... (YES) NO
   If YES, what time were they transferred to freezer? 1330
9. Did all bottles arrive unbroken/unopened? ..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... YES NO (N/A)
15. Are bubbles absent in VOA samples? ..... YES NO (N/A)
16. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**203251**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**05/13/08**
Samples Received:	**05/13/08**

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 05/13/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

5035 samples not analyzed within 48 hours were frozen.

Low recovery was observed for gasoline C7-C12 in the MS for batch 138103; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 138103; this analyte was not detected in the sample at or above the RL.

No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

High recovery was observed for diesel C12-C24 in the MSD for batch 138061; the parent sample was not a project sample, the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated sample.

No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

5035 samples not analyzed within 48 hours were frozen.

Low response was observed for Freon 12 in the ICV analyzed 03/16/08 17:22; this analyte was not detected at or above the RL in the associated samples.

Low responses were observed for 1,2-dichloroethane and Freon 113 in the CCV analyzed 05/13/08 16:27; these analytes met minimum response criteria. High response was observed for methylene chloride; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Methylene chloride and naphthalene were detected between the MDL and the RL in the method blank for batch 138046; these analytes were not detected in the sample at or above the RL.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**203251**
Client:	**Mactec, Inc.**
Project:	**4084075115**
Location:	**Bldg 1065 Presidio**
Request Date:	**05/13/08**
Samples Received:	**05/13/08**

Volatile Organics by GC/MS (EPA 8260B):
Methylene chloride was detected between the MDL and the RL in 1065EX371[8.0] (lab # 203251-003); this analyte is a common laboratory contaminant.

No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
High responses were observed for dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene in the ICV analyzed 05/07/08 20:08; these analytes were not detected at or above the RL in the associated samples.

No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for antimony in the MS/MSD of 1065EX371[8.0] (lab # 203251-003); the BS/BSD were within limits, and the associated RPD was within limits. High recovery was observed for vanadium in the MS of 1065EX371[8.0] (lab # 203251-003); the BS/BSD were within limits, and the associated RPD was within limits.

High % differences were observed for many analytes in the serial dilution of 1065EX371[8.0] (lab # 203251-003).

Beryllium, copper, and thallium were detected between the MDL and the RL in the method blank for batch 138137; these analytes were either not detected in the sample at or above the RL, or detected at a level at least 10 times that of the blank.

No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
High RPD was observed for moisture, percent in the SDUP of 1065EX371[8.0] (lab # 203251-003). Curtis and Tompkins controls RPD based on the % solids which was within quality control criteria.

No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX371[8.0]	Batch#:	138103
Matrix:	Soil	Sampled:	05/13/08
Units:	mg/Kg	Received:	05/13/08
Diln Fac:	1.000	Analyzed:	05/14/08

Type:	SAMPLE	Basis:	dry
Lab ID:	203251-003	Moisture:	17%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.061 J	0.23	0.013

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	83	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC441677		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.20	0.012

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	91	65-135

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC441678	Diln Fac:	1.000
Matrix:	Soil	Batch#:	138103
Units:	mg/Kg	Analyzed:	05/14/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.543	111	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	65-135
Bromofluorobenzene (FID)	100	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	203203-003	Batch#:	138103
Matrix:	Soil	Sampled:	05/09/08
Units:	mg/Kg	Received:	05/09/08
Basis:	as received	Analyzed:	05/15/08

Type: MS Lab ID: QC441679

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.05671	9.804	6.347	64 *	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	65-135
Bromofluorobenzene (FID)	104	65-135

Type: MSD Lab ID: QC441680

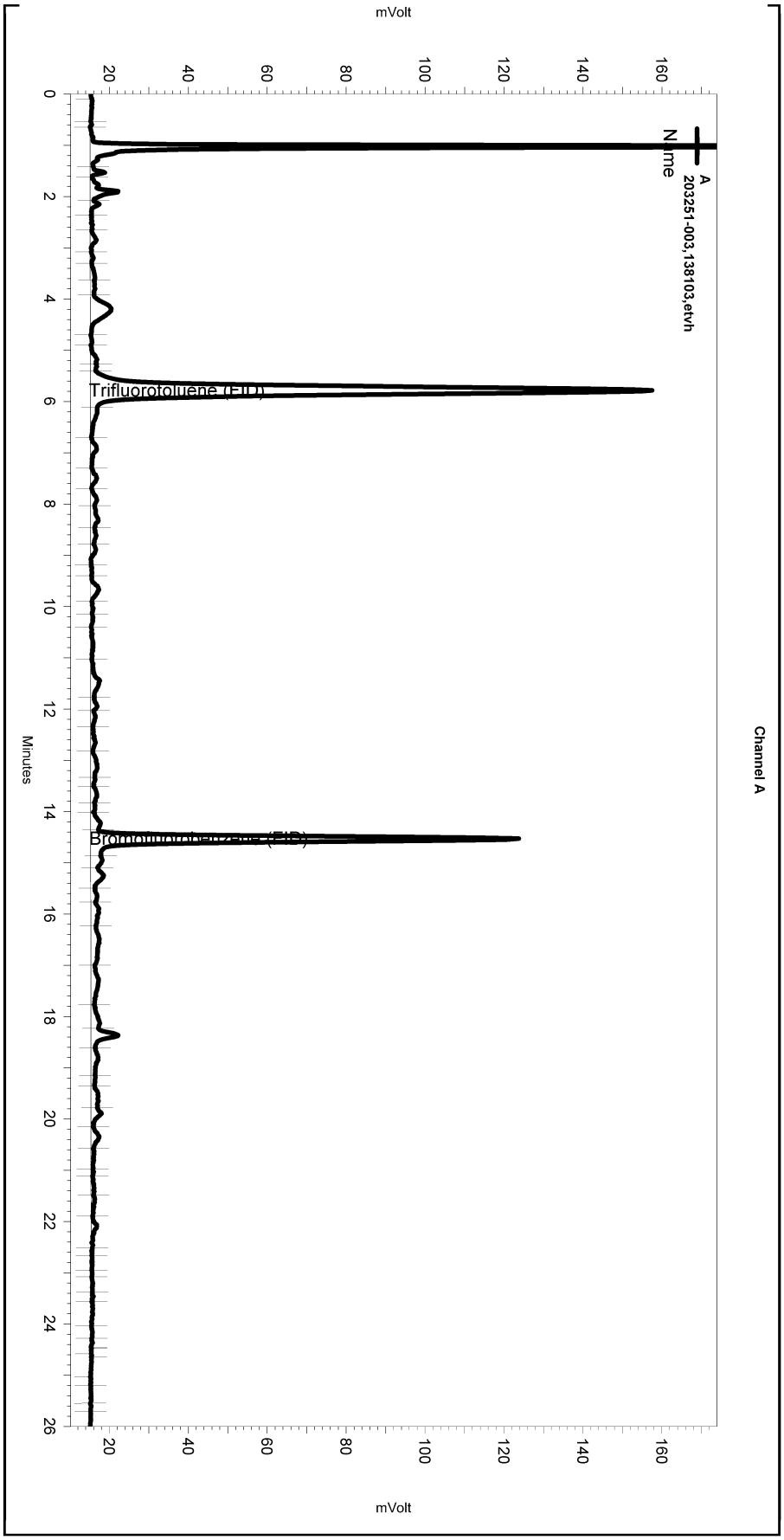
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.804	7.412	75	75-125	15	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	65-135
Bromofluorobenzene (FID)	101	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\135.seq**
Sample Name: **203251-003,138103,etvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\135_004**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055-a.met

Software Version 3.1.7
Run Date: 5/14/2008 5:14:51 PM
Analysis Date: 5/15/2008 8:02:19 AM
Sample Amount: 5.34 Multiplier: 5.34
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

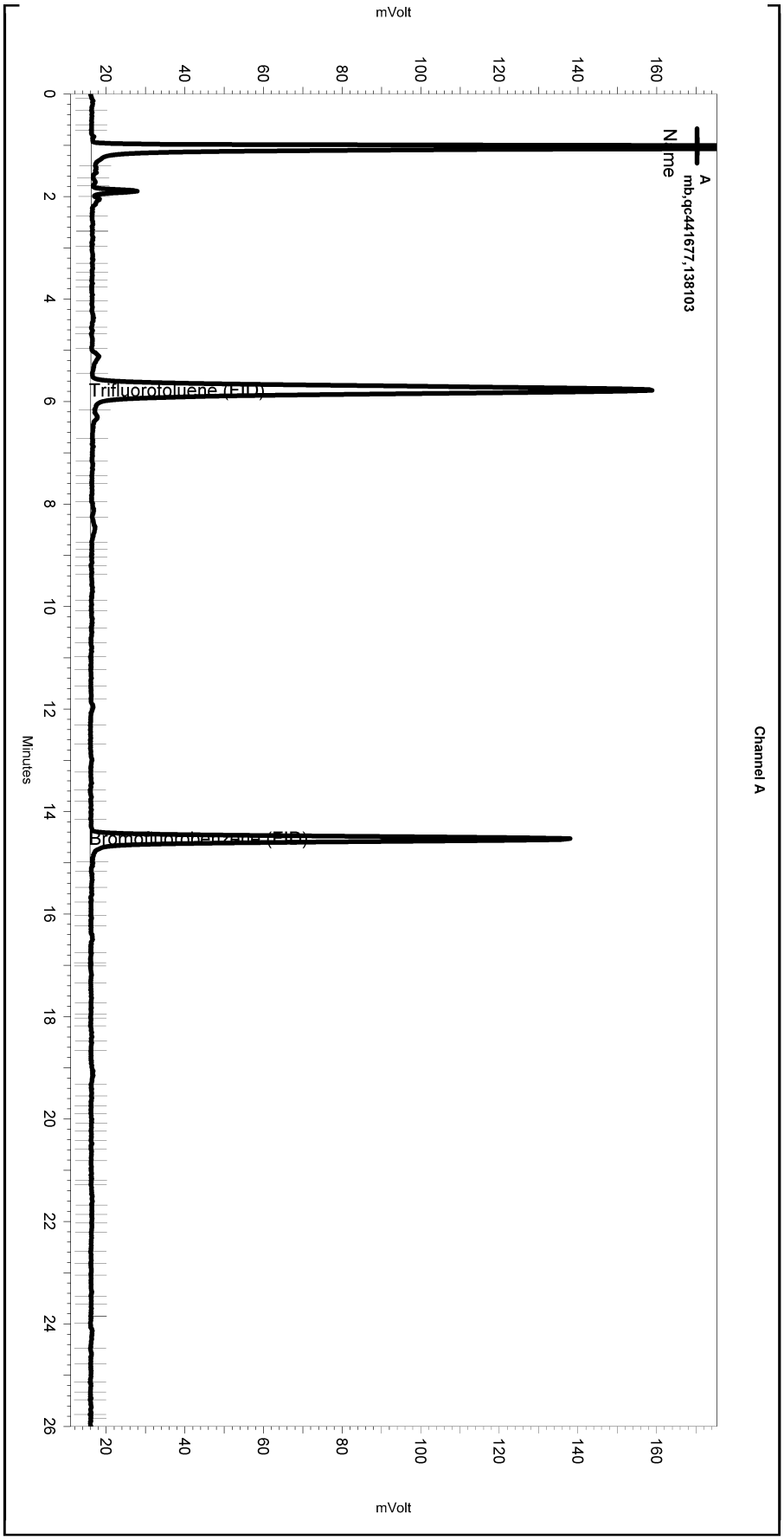
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\135_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.122	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\135.seq**
Sample Name: **mb,qc441677,138103**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\135_003**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055-a.met

Software Version 3.1.7
Run Date: 5/14/2008 4:14:51 PM
Analysis Date: 5/15/2008 7:30:49 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

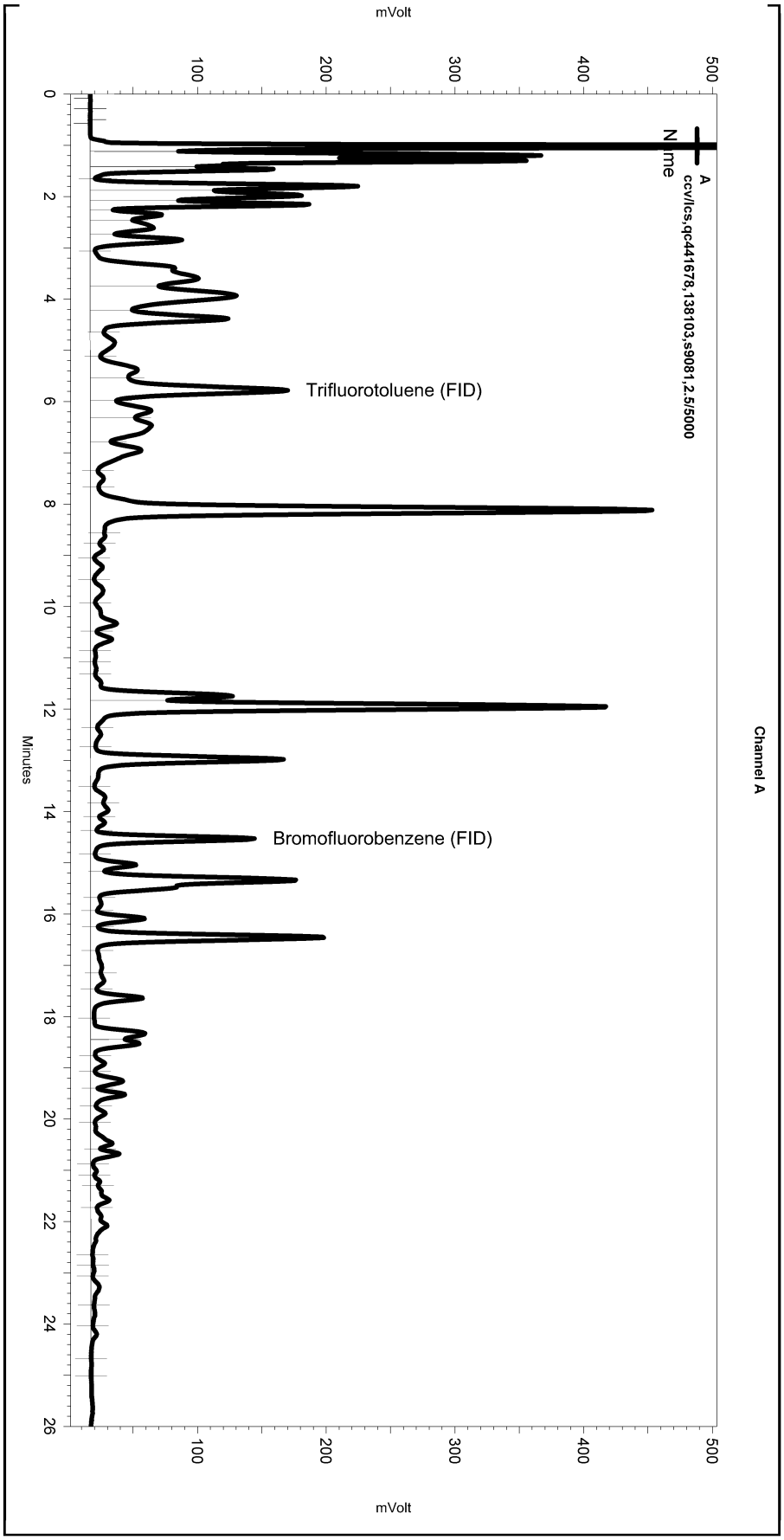
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\135_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\135.seq**
Sample Name: **ccv/lcs,qc441678,138103,s9081,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\135_002**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe055-a.met

Software Version 3.1.7
Run Date: 5/14/2008 3:25:31 PM
Analysis Date: 5/15/2008 7:30:45 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\135_002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	1065EX371[8.0]	Sampled:	05/13/08
Matrix:	Soil	Received:	05/13/08
Units:	mg/Kg	Prepared:	05/13/08
Diln Fac:	1.000	Analyzed:	05/14/08
Batch#:	138061		

Type:	SAMPLE	Moisture:	17%
Lab ID:	203251-003	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	0.56 J	1.2	0.31
Fuel Oil C24-C36	3.7 J	6.0	0.63

Surrogate	%REC	Limits
Hexacosane	85	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC441507	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.13
Fuel Oil C24-C36	ND	5.0	0.51

Surrogate	%REC	Limits
Hexacosane	77	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC441508	Batch#:	138061
Matrix:	Soil	Prepared:	05/13/08
Units:	mg/Kg	Analyzed:	05/14/08
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.97	51.49	103	65-135

Surrogate	%REC	Limits
Hexacosane	96	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	138061
MSS Lab ID:	203254-025	Sampled:	05/12/08
Matrix:	Soil	Received:	05/13/08
Units:	mg/Kg	Prepared:	05/13/08
Basis:	as received	Analyzed:	05/14/08
Diln Fac:	1.000		

Type: MS Lab ID: QC441509

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	37.42	49.67	91.59	109	65-135

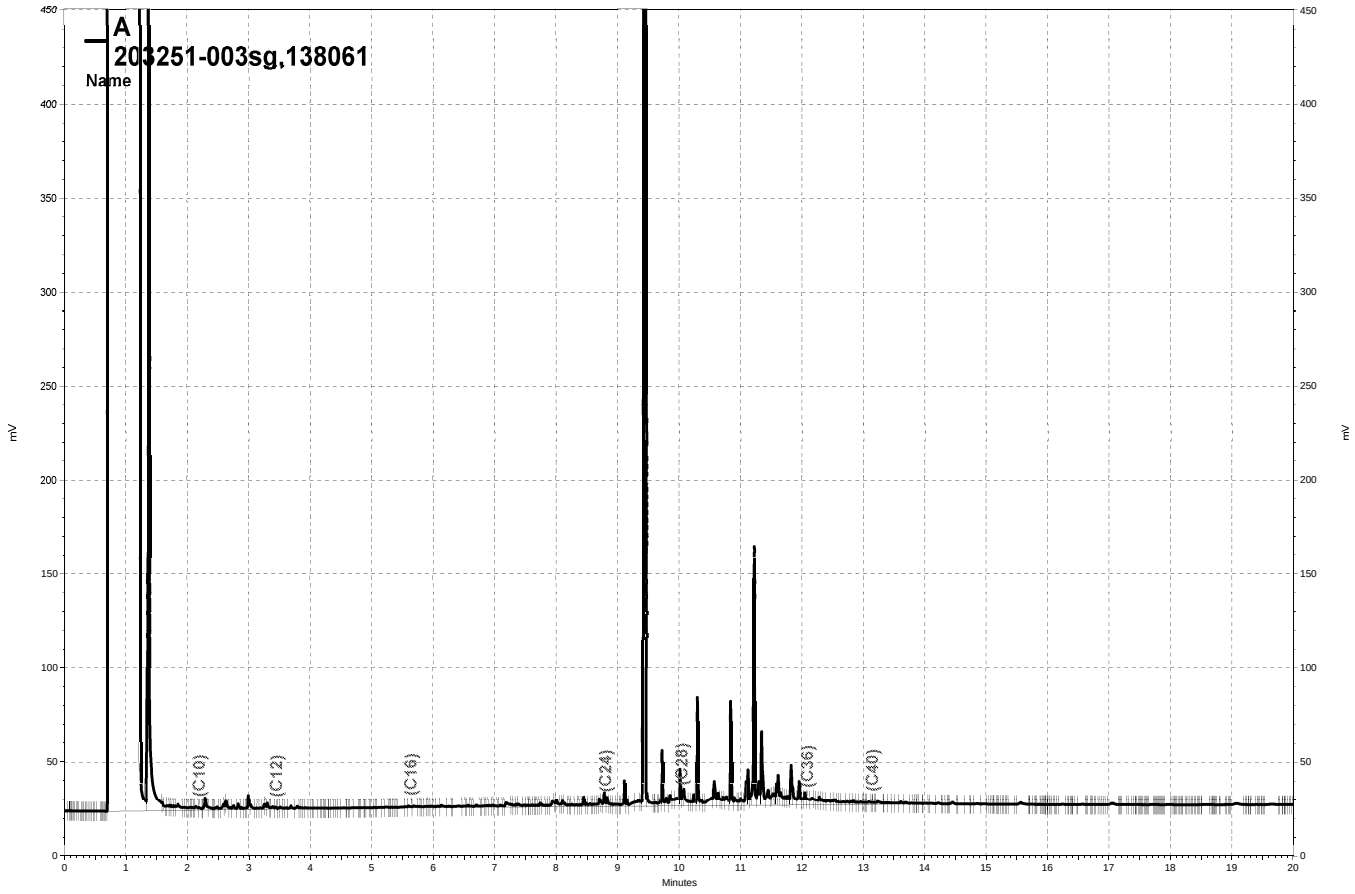
Surrogate	%REC	Limits
Hexacosane	82	65-135

Type: MSD Lab ID: QC441510

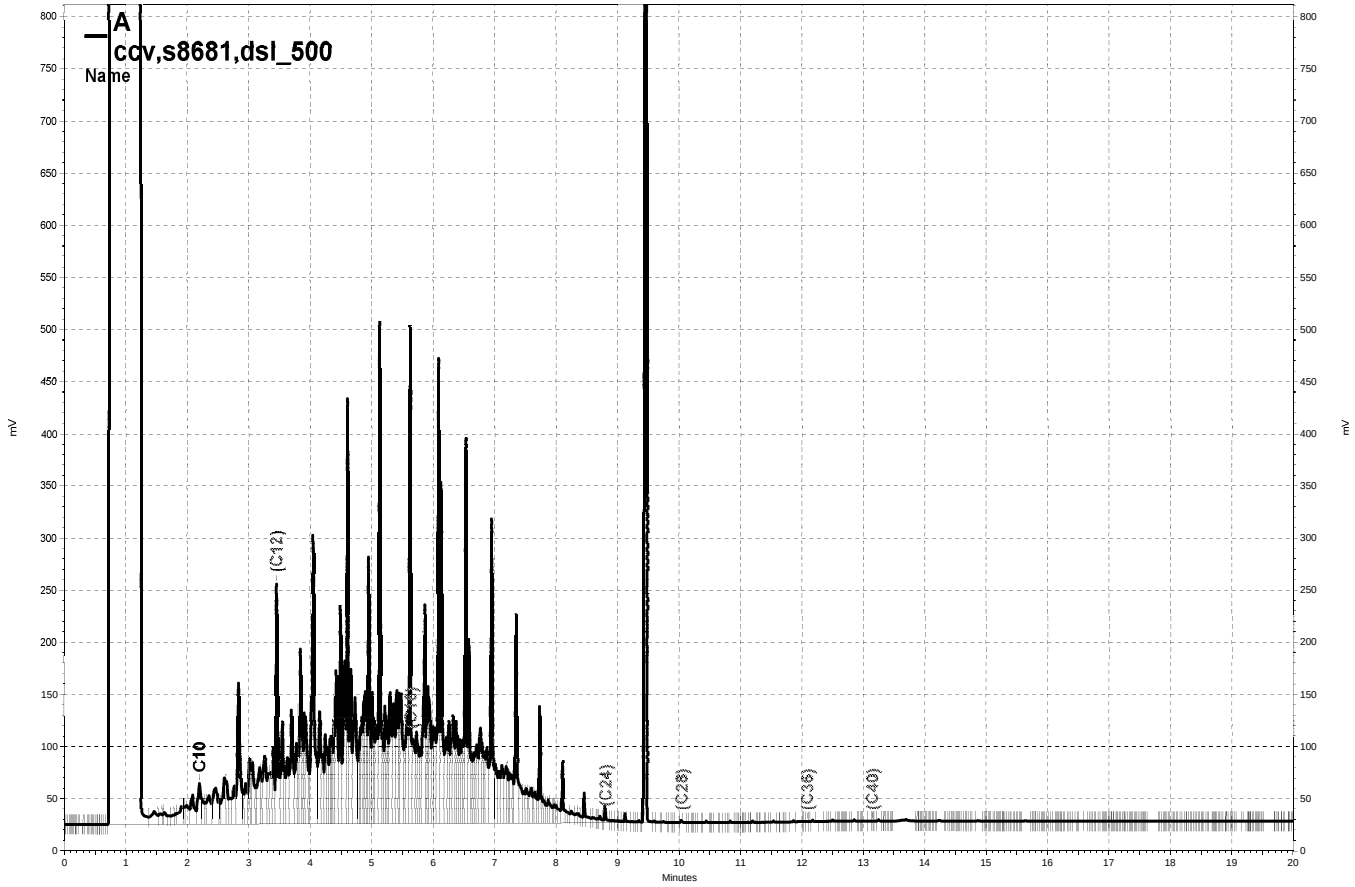
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	49.56	108.1	143 *	65-135	17	35

Surrogate	%REC	Limits
Hexacosane	93	65-135

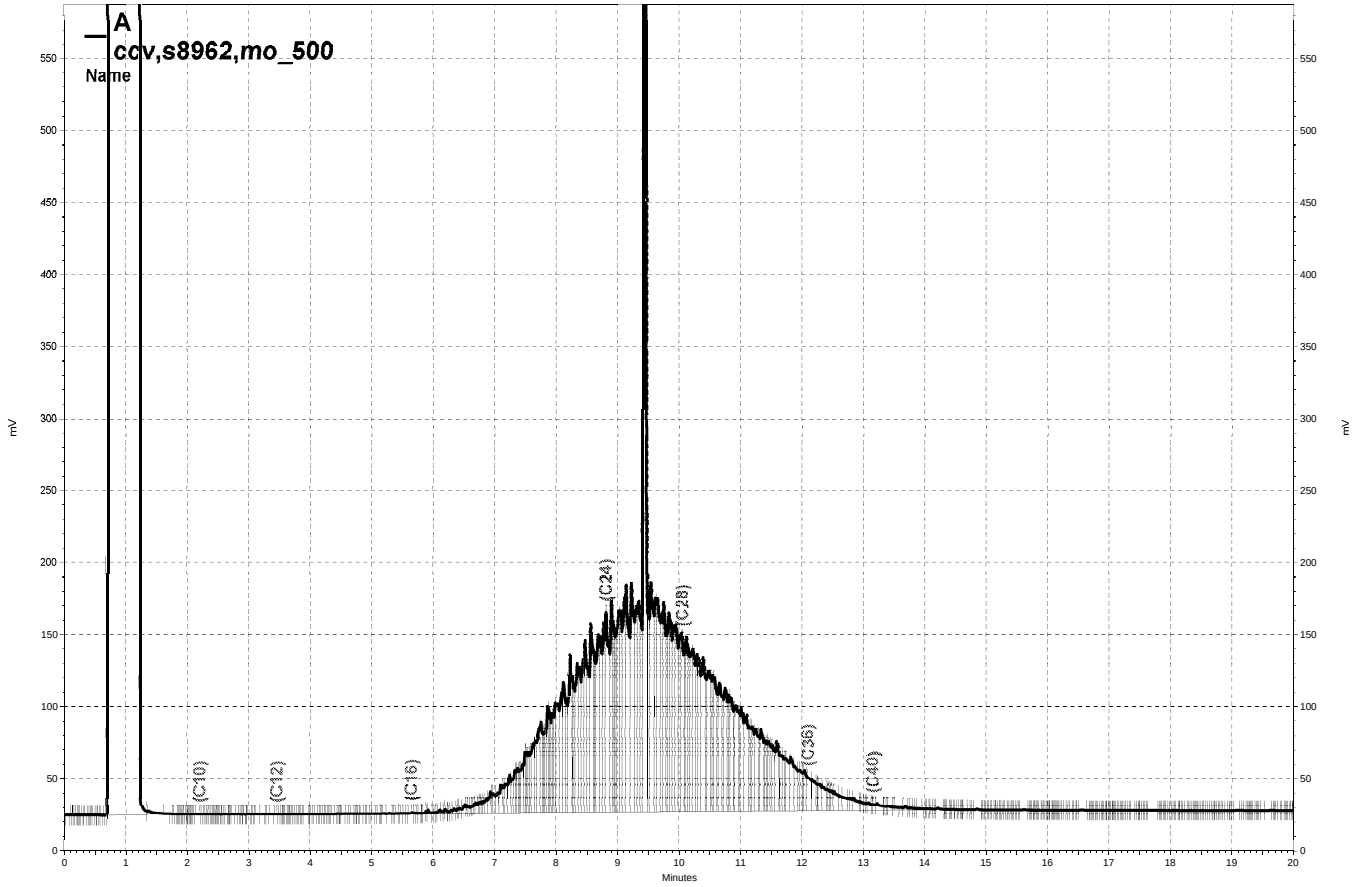
*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\135a008, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\135a003, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\135a004, A

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX371[8.0]	Diln Fac:	0.9615
Lab ID:	203251-003	Batch#:	138046
Matrix:	Soil	Sampled:	05/13/08
Units:	ug/Kg	Received:	05/13/08
Basis:	dry	Analyzed:	05/13/08

Moisture: 17%

Analyte	Result	RL	MDL
Freon 12	ND	12	1.3
Chloromethane	ND	12	0.52
Vinyl Chloride	ND	12	0.45
Bromomethane	ND	12	0.45
Chloroethane	ND	12	0.40
Trichlorofluoromethane	ND	5.8	0.66
Acetone	5.5 J	23	1.8
Freon 113	ND	5.8	0.52
1,1-Dichloroethene	ND	5.8	0.56
Methylene Chloride	3.0 J b	23	0.71
Carbon Disulfide	ND	5.8	0.90
MTBE	ND	5.8	0.70
trans-1,2-Dichloroethene	ND	5.8	0.85
Vinyl Acetate	ND	58	0.67
1,1-Dichloroethane	ND	5.8	0.88
2-Butanone	1.4 J	12	0.94
cis-1,2-Dichloroethene	ND	5.8	0.94
2,2-Dichloropropane	ND	5.8	0.83
Chloroform	ND	5.8	0.93
Bromochloromethane	ND	5.8	0.93
1,1,1-Trichloroethane	ND	5.8	0.71
1,1-Dichloropropene	ND	5.8	0.65
Carbon Tetrachloride	ND	5.8	0.75
1,2-Dichloroethane	ND	5.8	0.96
Benzene	ND	5.8	0.82
Trichloroethene	ND	5.8	0.86
1,2-Dichloropropane	ND	5.8	0.78
Bromodichloromethane	ND	5.8	1.1
Dibromomethane	ND	5.8	0.84
4-Methyl-2-Pentanone	ND	12	0.67
cis-1,3-Dichloropropene	ND	5.8	0.74
Toluene	ND	5.8	0.61
trans-1,3-Dichloropropene	ND	5.8	0.80
1,1,2-Trichloroethane	ND	5.8	0.89
2-Hexanone	ND	12	0.71
1,3-Dichloropropane	ND	5.8	0.95
Tetrachloroethene	ND	5.8	0.86
Dibromochloromethane	ND	5.8	0.76
1,2-Dibromoethane	ND	5.8	0.81
Chlorobenzene	ND	5.8	0.69
1,1,1,2-Tetrachloroethane	ND	5.8	0.88
Ethylbenzene	ND	5.8	0.78
m,p-Xylenes	ND	5.8	1.4
o-Xylene	ND	5.8	0.59
Styrene	ND	5.8	0.66
Bromoform	ND	5.8	0.87
Isopropylbenzene	ND	5.8	0.51
1,1,2,2-Tetrachloroethane	ND	5.8	0.89
1,2,3-Trichloropropane	ND	5.8	0.80

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Field ID:	1065EX371[8.0]	Dil'n Fac:	0.9615
Lab ID:	203251-003	Batch#:	138046
Matrix:	Soil	Sampled:	05/13/08
Units:	ug/Kg	Received:	05/13/08
Basis:	dry	Analyzed:	05/13/08

Analyte	Result	RL	MDL
Propylbenzene	ND	5.8	0.66
Bromobenzene	ND	5.8	0.77
1,3,5-Trimethylbenzene	ND	5.8	0.62
2-Chlorotoluene	ND	5.8	0.68
4-Chlorotoluene	ND	5.8	0.62
tert-Butylbenzene	ND	5.8	0.56
1,2,4-Trimethylbenzene	ND	5.8	0.60
sec-Butylbenzene	ND	5.8	0.49
para-Isopropyl Toluene	ND	5.8	0.52
1,3-Dichlorobenzene	ND	5.8	0.68
1,4-Dichlorobenzene	ND	5.8	0.79
n-Butylbenzene	ND	5.8	0.51
1,2-Dichlorobenzene	ND	5.8	0.75
1,2-Dibromo-3-Chloropropane	ND	5.8	0.85
1,2,4-Trichlorobenzene	ND	5.8	0.48
Hexachlorobutadiene	ND	5.8	0.65
Naphthalene	ND	5.8	0.38
1,2,3-Trichlorobenzene	ND	5.8	0.76

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	97	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-121

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC441448	Diln Fac:	1.000
Matrix:	Soil	Batch#:	138046
Units:	ug/Kg	Analyzed:	05/13/08

Analyte	Result	RL	MDL
Freon 12	ND	10	1.1
Chloromethane	ND	10	0.45
Vinyl Chloride	ND	10	0.39
Bromomethane	ND	10	0.39
Chloroethane	ND	10	0.35
Trichlorofluoromethane	ND	5.0	0.57
Acetone	ND	20	1.5
Freon 113	ND	5.0	0.45
1,1-Dichloroethene	ND	5.0	0.48
Methylene Chloride	1.4 J b	20	0.61
Carbon Disulfide	ND	5.0	0.78
MTBE	ND	5.0	0.61
trans-1,2-Dichloroethene	ND	5.0	0.73
Vinyl Acetate	ND	50	0.57
1,1-Dichloroethane	ND	5.0	0.76
2-Butanone	ND	10	0.81
cis-1,2-Dichloroethene	ND	5.0	0.81
2,2-Dichloropropane	ND	5.0	0.72
Chloroform	ND	5.0	0.80
Bromochloromethane	ND	5.0	0.80
1,1,1-Trichloroethane	ND	5.0	0.62
1,1-Dichloropropene	ND	5.0	0.56
Carbon Tetrachloride	ND	5.0	0.64
1,2-Dichloroethane	ND	5.0	0.83
Benzene	ND	5.0	0.71
Trichloroethene	ND	5.0	0.74
1,2-Dichloropropane	ND	5.0	0.67
Bromodichloromethane	ND	5.0	0.91
Dibromomethane	ND	5.0	0.73
4-Methyl-2-Pentanone	ND	10	0.57
cis-1,3-Dichloropropene	ND	5.0	0.64
Toluene	ND	5.0	0.52
trans-1,3-Dichloropropene	ND	5.0	0.69
1,1,2-Trichloroethane	ND	5.0	0.77
2-Hexanone	ND	10	0.61
1,3-Dichloropropane	ND	5.0	0.82
Tetrachloroethene	ND	5.0	0.74
Dibromochloromethane	ND	5.0	0.66
1,2-Dibromoethane	ND	5.0	0.70
Chlorobenzene	ND	5.0	0.60
1,1,1,2-Tetrachloroethane	ND	5.0	0.76
Ethylbenzene	ND	5.0	0.67
m,p-Xylenes	ND	5.0	1.2
o-Xylene	ND	5.0	0.51
Styrene	ND	5.0	0.57
Bromoform	ND	5.0	0.75
Isopropylbenzene	ND	5.0	0.44
1,1,2,2-Tetrachloroethane	ND	5.0	0.76
1,2,3-Trichloropropane	ND	5.0	0.69
Propylbenzene	ND	5.0	0.57
Bromobenzene	ND	5.0	0.67

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC441448	Diln Fac:	1.000
Matrix:	Soil	Batch#:	138046
Units:	ug/Kg	Analyzed:	05/13/08

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	5.0	0.54
2-Chlorotoluene	ND	5.0	0.59
4-Chlorotoluene	ND	5.0	0.54
tert-Butylbenzene	ND	5.0	0.48
1,2,4-Trimethylbenzene	ND	5.0	0.52
sec-Butylbenzene	ND	5.0	0.42
para-Isopropyl Toluene	ND	5.0	0.45
1,3-Dichlorobenzene	ND	5.0	0.59
1,4-Dichlorobenzene	ND	5.0	0.68
n-Butylbenzene	ND	5.0	0.44
1,2-Dichlorobenzene	ND	5.0	0.65
1,2-Dibromo-3-Chloropropane	ND	5.0	0.73
1,2,4-Trichlorobenzene	ND	5.0	0.42
Hexachlorobutadiene	ND	5.0	0.56
Naphthalene	0.35 J	5.0	0.33
1,2,3-Trichlorobenzene	ND	5.0	0.65

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	100	76-137
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-121

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 5035
Project#:	4084075115	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	138046
Basis:	as received	Analyzed:	05/13/08

Type: BS Lab ID: QC441449

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.16	101	71-133
Benzene	25.00	26.98	108	79-123
Trichloroethene	25.00	25.62	102	79-124
Toluene	25.00	26.37	105	80-123
Chlorobenzene	25.00	27.07	108	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-126
1,2-Dichloroethane-d4	96	76-137
Toluene-d8	96	80-120
Bromofluorobenzene	99	80-121

Type: BSD Lab ID: QC441450

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.39	98	71-133	3	20
Benzene	25.00	26.97	108	79-123	0	20
Trichloroethene	25.00	25.79	103	79-124	1	20
Toluene	25.00	26.39	106	80-123	0	20
Chlorobenzene	25.00	26.97	108	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	78-126
1,2-Dichloroethane-d4	95	76-137
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX371[8.0]	Batch#:	138062
Lab ID:	203251-003	Sampled:	05/13/08
Matrix:	Soil	Received:	05/13/08
Units:	ug/Kg	Prepared:	05/13/08
Basis:	dry	Analyzed:	05/14/08
Diln Fac:	1.000		

Moisture: 17%

Analyte	Result	RL	MDL
Naphthalene	ND	6.0	1.1
2-Methylnaphthalene	ND	6.0	0.97
Acenaphthylene	ND	6.0	0.75
Acenaphthene	ND	6.0	1.0
Fluorene	ND	6.0	1.0
Phenanthrene	ND	6.0	1.0
Anthracene	ND	6.0	0.89
Fluoranthene	ND	6.0	0.96
Pyrene	ND	6.0	0.85
Benzo(a)anthracene	ND	6.0	0.89
Chrysene	ND	6.0	0.92
Benzo(b)fluoranthene	ND	6.0	1.4
Benzo(k)fluoranthene	ND	6.0	1.2
Benzo(a)pyrene	ND	6.0	0.72
Indeno(1,2,3-cd)pyrene	ND	6.0	1.0
Dibenz(a,h)anthracene	ND	6.0	1.0
Benzo(g,h,i)perylene	ND	6.0	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	87	23-120
2-Fluorobiphenyl	80	30-115
Terphenyl-d14	100	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC441516	Batch#:	138062
Matrix:	Soil	Prepared:	05/13/08
Units:	ug/Kg	Analyzed:	05/14/08
Basis:	as received		

Analyte	Result	RL	MDL
Naphthalene	ND	4.9	0.93
2-Methylnaphthalene	ND	4.9	0.81
Acenaphthylene	ND	4.9	0.62
Acenaphthene	ND	4.9	0.83
Fluorene	ND	4.9	0.85
Phenanthrene	ND	4.9	0.84
Anthracene	ND	4.9	0.74
Fluoranthene	ND	4.9	0.80
Pyrene	ND	4.9	0.71
Benzo(a)anthracene	ND	4.9	0.74
Chrysene	ND	4.9	0.77
Benzo(b)fluoranthene	ND	4.9	1.2
Benzo(k)fluoranthene	ND	4.9	1.0
Benzo(a)pyrene	ND	4.9	0.60
Indeno(1,2,3-cd)pyrene	ND	4.9	0.83
Dibenz(a,h)anthracene	ND	4.9	0.86
Benzo(g,h,i)perylene	ND	4.9	0.99

Surrogate	%REC	Limits
Nitrobenzene-d5	106	23-120
2-Fluorobiphenyl	87	30-115
Terphenyl-d14	91	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC441517	Batch#:	138062
Matrix:	Soil	Prepared:	05/13/08
Units:	ug/Kg	Analyzed:	05/14/08
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.20	23.15	70	31-137
Pyrene	33.20	23.74	71	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	87	23-120
2-Fluorobiphenyl	75	30-115
Terphenyl-d14	74	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3550B
Project#:	4084075115	Analysis:	EPA 8270C-SIM
Field ID:	1065EX371[8.0]	Batch#:	138062
MSS Lab ID:	203251-003	Sampled:	05/13/08
Matrix:	Soil	Received:	05/13/08
Units:	ug/Kg	Prepared:	05/13/08
Basis:	dry	Analyzed:	05/14/08
Diln Fac:	1.000		

Type: MS Moisture: 17%
Lab ID: QC441518

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.001	39.59	31.24	79	31-137
Pyrene	<0.8491	39.59	35.34	89	35-142

Surrogate	%REC	Limits
Nitrobenzene-d5	103	23-120
2-Fluorobiphenyl	84	30-115
Terphenyl-d14	90	18-137

Type: MSD Moisture: 17%
Lab ID: QC441519

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	39.95	27.68	69	31-137	13	19
Pyrene	39.95	32.20	81	35-142	10	36

Surrogate	%REC	Limits
Nitrobenzene-d5	92	23-120
2-Fluorobiphenyl	74	30-115
Terphenyl-d14	82	18-137

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	203251	Project#:	4084075115
Client:	Mactec, Inc.	Location:	Bldg 1065 Presidio
Field ID:	1065EX371[8.0]	Diln Fac:	1.000
Lab ID:	203251-003	Sampled:	05/13/08
Matrix:	Soil	Received:	05/13/08
Units:	mg/Kg	Analyzed:	05/15/08
Basis:	dry		

Moisture: 17%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	1.7	0.60	0.029	138137	05/15/08	EPA 3050B	EPA 6010B
Arsenic	2.1	0.30	0.052	138137	05/15/08	EPA 3050B	EPA 6010B
Barium	64	0.30	0.0049	138137	05/15/08	EPA 3050B	EPA 6010B
Beryllium	0.25	0.12	0.0022	138137	05/15/08	EPA 3050B	EPA 6010B
Cadmium	ND	0.30	0.0028	138137	05/15/08	EPA 3050B	EPA 6010B
Chromium	91	0.30	0.018	138137	05/15/08	EPA 3050B	EPA 6010B
Cobalt	12	0.30	0.0083	138137	05/15/08	EPA 3050B	EPA 6010B
Copper	4.2	0.30	0.029	138137	05/15/08	EPA 3050B	EPA 6010B
Lead	3.6	0.24	0.081	138137	05/15/08	EPA 3050B	EPA 6010B
Mercury	ND	0.024	0.0052	138111	05/14/08	METHOD	EPA 7471A
Molybdenum	0.16 J	0.30	0.024	138137	05/15/08	EPA 3050B	EPA 6010B
Nickel	45	0.30	0.019	138137	05/15/08	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.082	138137	05/15/08	EPA 3050B	EPA 6010B
Silver	0.052 J	0.30	0.019	138137	05/15/08	EPA 3050B	EPA 6010B
Thallium	0.32 J	0.60	0.036	138137	05/15/08	EPA 3050B	EPA 6010B
Vanadium	51	0.30	0.022	138137	05/15/08	EPA 3050B	EPA 6010B
Zinc	26	1.2	0.030	138137	05/15/08	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC441706	Batch#:	138111
Matrix:	Soil	Prepared:	05/14/08
Units:	mg/Kg	Analyzed:	05/15/08

Result	RL	MDL
ND	0.020	0.0052

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	138111
Units:	mg/Kg	Prepared:	05/14/08
Basis:	as received	Analyzed:	05/15/08

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC441707	0.5000	0.5130	103	75-125		
BSD	QC441708	0.5000	0.5300	106	75-125	3	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	138111
MSS Lab ID:	203078-019	Sampled:	05/05/08
Lab ID:	QC441709	Received:	05/06/08
Matrix:	Soil	Analyzed:	05/15/08
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	% Diff	Lim
0.01689	0.02000	ND	0.09434	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	138111
MSS Lab ID:	203078-019	Sampled:	05/05/08
Matrix:	Soil	Received:	05/06/08
Units:	mg/Kg	Prepared:	05/14/08
Basis:	as received	Analyzed:	05/15/08

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC441710	0.01689	0.4464	0.4920	106	75-125		
MSD	QC441711		0.4032	0.4331	103	75-125	3	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC441819	Batch#:	138137
Matrix:	Soil	Prepared:	05/15/08
Units:	mg/Kg	Analyzed:	05/15/08
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.027
Arsenic	ND	0.25	0.050
Barium	ND	0.25	0.0047
Beryllium	0.0064 J	0.10	0.0021
Cadmium	ND	0.25	0.0027
Chromium	ND	0.25	0.017
Cobalt	ND	0.25	0.0078
Copper	0.060 J	0.25	0.028
Lead	ND	0.23	0.076
Molybdenum	ND	0.25	0.022
Nickel	ND	0.25	0.018
Selenium	ND	0.50	0.078
Silver	ND	0.25	0.018
Thallium	0.051 J	0.50	0.034
Vanadium	ND	0.25	0.021
Zinc	ND	1.0	0.028

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	138137
Units:	mg/Kg	Prepared:	05/15/08
Basis:	as received	Analyzed:	05/15/08
Diln Fac:	1.000		

Type: BS Lab ID: QC441820

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	100.5	100	75-125
Arsenic	50.00	51.08	102	75-125
Barium	100.0	98.75	99	75-125
Beryllium	2.500	2.574	103	75-125
Cadmium	10.00	10.75	107	75-125
Chromium	100.0	97.63	98	75-125
Cobalt	25.00	24.29	97	75-125
Copper	12.50	12.25	98	75-125
Lead	100.0	99.18	99	75-125
Molybdenum	20.00	20.11	101	75-125
Nickel	25.00	24.72	99	75-125
Selenium	50.00	52.02	104	75-125
Silver	10.00	9.344	93	75-125
Thallium	50.00	48.12	96	75-125
Vanadium	25.00	24.28	97	75-125
Zinc	25.00	23.80	95	75-125

Type: BSD Lab ID: QC441821

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	99.63	100	75-125	1	30
Arsenic	50.00	50.58	101	75-125	1	30
Barium	100.0	95.84	96	75-125	3	30
Beryllium	2.500	2.517	101	75-125	2	30
Cadmium	10.00	10.40	104	75-125	3	30
Chromium	100.0	95.31	95	75-125	2	30
Cobalt	25.00	23.91	96	75-125	2	30
Copper	12.50	11.86	95	75-125	3	30
Lead	100.0	97.71	98	75-125	1	30
Molybdenum	20.00	19.81	99	75-125	1	30
Nickel	25.00	24.40	98	75-125	1	30
Selenium	50.00	50.81	102	75-125	2	30
Silver	10.00	9.152	92	75-125	2	30
Thallium	50.00	47.26	95	75-125	2	30
Vanadium	25.00	23.69	95	75-125	2	30
Zinc	25.00	23.20	93	75-125	3	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX371[8.0]	Batch#:	138137
MSS Lab ID:	203251-003	Sampled:	05/13/08
Matrix:	Soil	Received:	05/13/08
Units:	mg/Kg	Prepared:	05/15/08
Basis:	dry	Analyzed:	05/15/08
Diln Fac:	1.000		

Type: MS Moisture: 17%
Lab ID: QC441822

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.683	97.16	65.04	65 *	75-125
Arsenic	2.089	48.58	53.11	105	75-125
Barium	63.57	97.16	168.7	108	75-125
Beryllium	0.2469	2.429	2.871	108	75-125
Cadmium	<0.002801	9.716	10.23	105	75-125
Chromium	91.03	97.16	191.5	103	75-125
Cobalt	11.97	24.29	35.03	95	75-125
Copper	4.211	12.15	17.22	107	75-125
Lead	3.565	97.16	99.56	99	75-125
Molybdenum	0.1590	19.43	19.11	98	75-125
Nickel	45.21	24.29	73.92	118 P	75-125
Selenium	<0.08229	48.58	50.41	104	75-125
Silver	0.05203	9.716	9.538	98	75-125
Thallium	0.3167	48.58	45.45	93	75-125
Vanadium	50.93	24.29	83.79	135 * P	75-125
Zinc	25.61	24.29	55.54	123 P	75-125

Type: MSD Moisture: 17%
Lab ID: QC441823

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	101.2	63.43	61 *	75-125	7	30
Arsenic	50.62	50.91	96	75-125	8	30
Barium	101.2	160.0	95	75-125	8	30
Beryllium	2.531	2.772	100	75-125	7	30
Cadmium	10.12	9.755	96	75-125	9	30
Chromium	101.2	177.3	85	75-125	10	30
Cobalt	25.31	33.33	84	75-125	8	30
Copper	12.66	18.99	117	75-125	7	30
Lead	101.2	95.09	90	75-125	9	30
Molybdenum	20.25	18.01	88	75-125	10	30
Nickel	25.31	65.72	81 P	75-125	13	30
Selenium	50.62	48.90	97	75-125	7	30
Silver	10.12	9.233	91	75-125	7	30
Thallium	50.62	43.20	85	75-125	9	30
Vanadium	25.31	77.74	106 P	75-125	9	30
Zinc	25.31	53.35	110 P	75-125	6	30

*= Value outside of QC limits; see narrative
P= Sample concentration > spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	EPA 3050B
Project#:	4084075115	Analysis:	EPA 6010B
Field ID:	1065EX371[8.0]	Basis:	dry
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	203251-003	Batch#:	138137
Lab ID:	QC441824	Sampled:	05/13/08
Matrix:	Soil	Received:	05/13/08
Units:	mg/Kg	Analyzed:	05/15/08

Moisture: 17%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	1.683	0.6024	0.5446 J	1.321	68 *	10
Arsenic	2.089	0.3012	2.046	1.321	NC	10
Barium	63.57	0.3012	73.47	1.321	16 *	10
Beryllium	0.2469	0.1205	0.3050 J	0.5284	24 *	10
Cadmium	ND	0.3012	ND	1.321	NC	10
Chromium	91.03	0.3012	105.4	1.321	16 *	10
Cobalt	11.97	0.3012	14.11	1.321	18 *	10
Copper	4.211	0.3012	4.690	1.321	11 *	10
Lead	3.565	0.2423	4.026	1.212	NC	10
Molybdenum	0.1590	0.3012	0.1546 J	1.321	NC	10
Nickel	45.21	0.3012	52.95	1.321	17 *	10
Selenium	ND	0.6024	ND	1.321	NC	10
Silver	0.05203	0.3012	0.1539 J	1.321	NC	10
Thallium	0.3167	0.6024	0.3940 J	1.321	NC	10
Vanadium	50.93	0.3012	58.32	1.321	15 *	10
Zinc	25.61	1.205	23.41	5.284	9	10

*= Value outside of QC limits; see narrative
J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Moisture

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Field ID:	1065EX371[8.0]	Batch#:	138063
Lab ID:	203251-003	Sampled:	05/13/08
Matrix:	Soil	Received:	05/13/08
Units:	%	Analyzed:	05/13/08

Result	RL
17	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	203251	Location:	Bldg 1065 Presidio
Client:	Mactec, Inc.	Prep:	METHOD
Project#:	4084075115	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	1065EX371[8.0]	Diln Fac:	1.000
Type:	SDUP	Batch#:	138063
MSS Lab ID:	203251-003	Sampled:	05/13/08
Lab ID:	QC441520	Received:	05/13/08
Matrix:	Soil	Analyzed:	05/13/08

MSS Result	Result	RL	RPD	Lim
16.59	13.63	1.000	20 *	15

*= Value outside of QC limits; see narrative
RL= Reporting Limit
RPD= Relative Percent Difference

MACTEC

CHAIN OF CUSTODY RECORD

3839

203251

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Frah'cisco, CA ZIP:

PROJECT NAME: Building 1065
JOB NO.: 408407S115 02.4
SAMPLERS (SIGNATURE):
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 5/13/07

	TIME	GRAB	COMP.	MATRIX*	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs 8260B BTEX & Chloroform; TPHg; TPHd TPHmo-silica gel; PAHs (8270 SIM); Title 22 Metals	FOR LAB USE ONLY
1	1050	X		SO	1065EX371[65]	3259SW-6.5	+MS/MSD	14	Hold	
2	1110	X		SO	1065EX372[70]	235 115W		7	Hold	
3	1130	X		SO	1065EX373[80]	215 102W		7	X X X X X	

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
	5/13/07 1310		5/13/07 13:10			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS: Lvl 3 Data Validation
48 hr TAT
on ice, intact

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

MACTEC REVISED CHAIN OF CUSTODY RECORD

3839

203251

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Presidio Trust
STREET ADDRESS: Building 1063
CITY / STATE: San Francisco, CA ZIP:

PROJECT NAME: Building 1065
JOB NO.: 408407515 02.4
SAMPLERS (SIGNATURE): [signature]
SAMPLERS INITIALS (PRINT): SRG
SAMPLING DATE: 5/13/07

	TIME	GRAB	COMP	MATRIX*	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: VOCs 8260B BTEX & Naphthalene; TPHg; TPHd/TPHmo-Silica gel; PAHs (8270 s.i.m.); Title 22 Metals	FOR LAB USE ONLY
1	1050	X		SO	SD101 1065[37]65	32598W-6.5	+MB/MSD	14	Hold	
2	1110	X		SO	SD102 1065[37]70	23515W		7	Hold	
3	1130	X		SO	1065[37]80	21S 102W		7	XXXXX	
					371					

MOH

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME
[signature]	5/13/07 1310	[signature]	5/13/07 13:10			

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS
Lvl 3 Data Validation
48 hr TAT
on ice/intact

For Lab Use Only
Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

Subject: RE: 4084075115 - C&T Login Summary (203251) - Please revise MACTEC sample IDs
From: "Heassler, Mary Jo" <MHeassler@mactec.com>
Date: Wed, 14 May 2008 12:44:13 -0400
To: "AMK for AMP" <anne@ctberk.com>
CC: "Evans, Kathleen" <KKEvans@mactec.com>, "Carlyon, Kristen" <KACARLYON@mactec.com>, "Graham, Scott" <SRGRAHAM@mactec.com>

Please change the MACTEC Sample IDs as follows
Laboratory Sample ID 203251-001 change MACTEC ID to 1065SD101[6.5]
Laboratory Sample ID 203251-002 change MACTEC ID to 1065SD102[7.0]
Laboratory Sample ID 203251-003 change MACTEC ID to 1065EX371[8.0]

Please see attached revised COC.

From: AMK for AMP [mailto:anne@ctberk.com]
Sent: Tuesday, May 13, 2008 5:35 PM
To: Heassler, Mary Jo
Cc: Carlyon, Kristen; Evans, Kathleen; Hart, Mary; Albrecht, Frederic
Subject: 4084075115 - C&T Login Summary (203251)

C&T Login Summary for 203251

Project: 4084075115	**Report To:** Mactec, Inc.	**Bill To:** M
Site: Bldg 1065 Presidio	5341 Old Redwood Hwy	1
Lab Login #: 203251	Suite 300	S
Report Due: 05/15/08	Petaluma, CA 94954	A
PO#: 200704465	ATTN: Mary Jo Heassler	A
C&T Proj Mgr: Anna M. Pajarillo	(707) 793-3800	(

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	
1065EX371[6.5]	001	05/13	05/13			3839	ICP Okay
				Soil	HOLD		
1065EX372[7.0]	002	05/13	05/13			3839	ICP Okay
				Soil	HOLD		
1065EX373[8.0]	003	05/13	05/13			3839	ICP Okay
				Soil	8270-SIM		
				Soil	E8260		
				Soil	ETVH		
				Soil	MOISTURE		
				Soil	SILICA GEL		
				Soil	T26 MET		

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 203251 Date Received 5-13-08 Number of coolers 1
Client Mactec Project Building 1065

Date Opened 5-13-08 By (print) F Nichols (sign) [signature]
Date Logged in 5-13-08 By (print) _____ (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
   Shipping info _____
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? ..... YES NO (N/A)
3. Were custody papers dry and intact when received? ..... (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C ..... (YES) NO N/A
   Type of ice used: ☒ WET ☐ BLUE ☐ NONE Temp(°C) No temp blank, Cold
   ☐ SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.
8. Were soil Encore sampling devices present? ..... (YES) NO
   If YES, what time were they transferred to freezer? 1330
9. Did all bottles arrive unbroken/unopened? ..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... YES NO (N/A)
15. Are bubbles absent in VOA samples? ..... YES NO (N/A)
16. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____
_____

APPENDIX E

EVALUATION OF ALTERNATIVES FOR REMEDIATION BENEATH BUILDING 1063

Evaluation of Corrective Action Alternatives
Soils Under Southern Wall, Building 1063
Building 1065 Area, Presidio of San Francisco

Corrective Action Alternative	Evaluation Criteria								
	Effectiveness	Implementability			Relative Cost				
	Description/Effectiveness	Constructability	Timeliness	Impacts to Ongoing Operations and Resources	Capital Cost(1)	Max O&M (Monitoring) Cost(2)	Min O&M (Monitoring) Cost(3)	Total Cost (Min)(3)	Total Cost (Max)(2)
No Action	No Action / Groundwater Monitoring (1-3 years of monitoring), may need indoor air asssessment (up to $90,000), and may also require that engineering measures be implemented during building construction to reduce vapor intrusion into indoor air (not costed).	Would not involve construction.	Easy to Implement.	Possible impacts to future site workers from exposure to vapor migration into indoor air	$0	$122,140	$61,780	$61,780	$122,140
Excavation	Would effectively remove the majority of contamination beneath the foundation with approx 1,080 ft^3 left in place at the southeast corner of Excavation 1 . Contamination left in place to be treated by ORC or RegenOx insitu. 1 to 3 years of quarterly groundwater monitoring.	Construction already planned; would include an extra pothole for ORC/RegenOx application.	Moderate level of effort to implement within short time frame.	Building is unoccupied; impacts related to extended use of parking area for soil stockpiles. Shoring will be used to prevent impacts to historic building.	$124,420	$122,140	$61,780	$186,200	$246,560
ORC Advanced Injection	Would treat TPH left in place through injection of ORC advanced using direct push injection angle borings. Will involve monitoring (1-3 years) and 3 confirmation soil borings. Advantage of the alternative is that the area can be targeted directly. Disadvantage of the alternative is that ORC advanced takes 1 year to 18 months and will remove up to 80-90% of TPH and ORC advanced would not be effective in the vadose (smear) zone.	Easily achievable with angle borings or vertical borings placed along the edge of the foundation.	80 to 90 % effectiveness in 1 year to 18 months.	Building is unoccupied; no expected impacts to operations during injection activities. Care would be taken to inject below building footings to limit impact to historic building.	$54,850	$122,140	$61,780	$116,630	$176,990
ORC Advanced Trench Application	Would treat TPH left in place using ORC Advanced placed in a 4 ft deep trench along the south side of the the wall. ORC advanced would be mixed in with drain rock and a slotted pipe would be placed along the entire length (at approx 3 feet bgs) for later injections of water. Two extra trips would be made over the year to flush approximately 1,000 gallons (each trip) through the pipe to flush the ORC and oxygenated water into the formation. Same time frame as ORC Advanced injection. Disadvantage of the alternative is that it cannot be targeted in the source zone, relies on water transport to bring the O_2 to the target area, and the ability to flow into the formation may be reduced because of lower relative permeability of soil beneath the building wall. Alternatives' advantage is that oxygenated water can be administered over over several events, increasing the amount of oxygen introduced to polish off TPH left in place.	Easily achievable while excavation equipment is onsite.	80 to 90 % effectiveness in 1 year to 18 months.	Building is unoccupied; impacts related to extended use of parking area for equipment staging and stockpiles; would have limited impact to historic buiding.	$47,050	$122,140	$61,780	$108,830	$169,190
RegenOx Injection	Would treat TPH left in place through injection of RegenOx using direct push injection angle borings. Will involve long 1-3 years groundwater monitoring and 3 confirmation soil borings. Alternatives advantage is that the area can be targeted directly - RegenOx is active for approximately 3 weeks and breaks down TPH/VOCs. Would be more effective than ORC Advanced in addressing contaminants in the vadose (smear) zone. Disadvantage is that it is only expected to remove up to 80-90% of TPH. Use of this technology would require an amendment to the CAP.	Easily achievable with angle borings or vertical borings placed along the edge of the foundation.	80 to 90 % effectiveness in 1 month.	Building is unoccupied; no expected impacts to operations during injection activities. Care would be taken to inject below building footings to limit impact to historic building.	$59,110	$122,140	$61,780	$120,890	$181,250
RegenOx Trench Application	Would treat contaminants left in place using RegenOx placed in a 4 foot deep trench along the south side of the the foundation wall. RegenOx would be mixed in with drain rock flushed into the formation with approximately 7,200-gallons of tap water and a slotted pipe would be placed along the entire length (at approx 3 feet bgs) for later injections of water (two extra trips would be made over two months) to flush approximately 1,000 gallons (each trip) through the pipe. Will take approximately 2 months longer than injection (to allow for water flushing), has disadvantage in that it cannot be targeted in the source zone, relies on water transport to bring the O_2 to the target area, and the ability to flow into the formation may be reduced because of lower relative permeability of soil beneath the building wall. Use of this technology would require an amendment to the CAP. Its advantage is that oxygenated water can be administered over the whole area over several events, thus increasing the amount of oxygen introduced and polishing off TPH left in place.	Easily achievable while excavation equipment is onsite.	80 to 90 % effectiveness in 3 months.	Building is unoccupied; impacts related to extended use of parking area for equipment staging and stockpiles; would have limited impact to historic buiding.	$66,910	$122,140	$61,780	$128,690	$189,050

(1) Costs for Indoor Air Assessment not included in cost estimate, but may be up to $90,000 based on costs for Building 1040 work.
(2) Note that groundwater monitoring is included in CAP costs; cost assumes that a full three years of monitoring will be required (1 year quarterly and 2 years semiannual).
(3) Note that groundwater monitoring is included in CAP costs; cost assumes that only 1 year of quarterly monitoring will be required

Summary of Estimated Costs for Leaving Soils In Place under South Foundation Wall & Monitoring for 3 years
Building 1065 Area
Presidio of San Francisco, California

Task Description	Unit	Quantity	Unit Cost	Subtotal	Total
Quarterly Groundwater Monitoring and Reporting					
Sample well	ea	130	$268	$34,814	
Analyze water samples from wells					
TPHg	ea	55	$50	$2,750	
Title 22 Metals	ea	75	$70	$5,250	
Data Validation	ea	130	$42	$5,421	
Input analytical results into Presidio Database	ea	130	$18	$2,327	
Dispose of Groundwater Sampling residuals	ea	8	$452	$3,618	
Prepare groundwater monitoring report	ea	8	$5,950	$47,600	
					$101,780
20 % Contingency					$20,356
Total Preliminary Estimated Costs					**$122,136**

Excavation of Soil Under South Foundation Wall
Building 1065 Area
Presidio of San Francisco, California

Task Description	Unit	Quantity	Unit Cost	Subtotal	Total
Excavation Costs (from ERRG)					
Shoring	ls	100%	$ 33,184.0	$ 33,184.0	
Excavation	ton	180	$ 37.7	$ 6,777.0	
Transport and Disposal	ton	180.00	$ 98.1	$ 17,650.8	
Import and Installation of Fill Material	ton	180.00	$ 28.7	$ 5,164.2	
					$62,776
Treatment of Soil Left in Place on East Sidewall with RegenOx or ORC					
RegenOx/ORC Costs	lbs	1000	$ 2.5	$ 2,500.0	
Injection Costs	day	1	$ 3,000.0	$ 3,000.0	
CAP/WP Addendum (if using RegenOx)	ls	100%	$ 8,000.0	$ 8,000.0	
Provide resident engineer	week	0.14	$ 5,950.0	$ 850.0	
Provide vehicles & equipment	week	0.14	$ 1,547.0	$ 221.0	
					$14,571
Confirmatory Soil Boring for soil left in place on east sidewall					
Driller Charge	ls	100%	$1,000	$1,500	
Lab Costs					
TPHg	ea	2	$45	$90	
TPHd/TPHfo	ea	2	$70	$140	
VOCs	ea	2	$120	$240	
PAHs	ea	2	$160	$320	
Title 22 Metals	ea	2	$120	$240	
Data Validation	ea	2	$42	$83	
Input analytical results into Presido Database	ea	2	$18	$36	
Provide resident engineer	week	0.15	$5,950	$893	
Provide vehicles & equipment	week	0.15	$1,547	$232	
Collect Soil Confirmation Sample	ea	2	$31	$62	
Prepare Report for RegenOx/Soil Borings	ea	100%	$22,500	$22,500	
					$26,336
20 % Contingency					$20,737
Subtotal Capital Costs					$124,419
Quarterly Groundwater Monitoring and Reporting (one year - 4 qtrs)					
Sample well	ea	65	$268	$17,407	
Analyze water samples from wells					
TPHg	ea	30	$50	$1,500	
Title 22 Metals	ea	40	$70	$2,800	
Data Validation	ea	70	$42	$2,919	
Input analytical results into Presidio Database	ea	70	$18	$1,253	
Dispose of Groundwater Sampling residuals	ea	4	$452	$1,809	
Prepare groundwater monitoring report	ea	4	$5,950	$23,800	
					$51,488
20 % Contingency					$10,297.6
Subtotal					$61,785
Total Preliminary Estimated Costs					**$186,204**

Except where noted, costs are based on unit rates from the Building 1065 CAP

Summary of Estimated Costs for ORC Injection, Soil Borings, Reporting, and Groundwater Monitoring
Building 1065 Area
Presidio of San Francisco, California

Task Description	Unit	Quantity	Unit Cost	Subtotal	Total
ORC Injection					
Driller Costs	ls	100%	$ 10,000.0	$ 10,000.0	
ORC Advanced Costs	lbs	600	$ 8.3	$ 4,950.0	
Provide resident engineer	week	0.43	$ 5,950.0	$ 2,550.0	
Provide vehicles & equipment	week	0.43	$ 1,547.0	$ 663.0	
					$18,163
Confirmatory Soil Borings					
Driller Charge (estimate provided by driller)	ls	100%	$1,500	$1,500	
Lab Costs					
TPHg	ea	4	$45	$180	
TPHd/TPHfo	ea	4	$70	$280	
VOCs	ea	4	$120	$480	
PAHs	ea	4	$160	$640	
Title 22 Metals	ea	4	$120	$480	
Data Validation	ea	4	$42	$167	
Input analytical results into Presido Database	ea	4	$18	$72	
Provide resident engineer	week	0.15	$5,950	$893	
Provide vehicles & equipment	week	0.15	$1,547	$232	
Collect Soil Confirmation Sample	ea	4	$31	$124	
Prepare Report for RegenOx/Soil Borings	ea	100%	$22,500	$22,500	
					$27,547
20% Contingency					$9,142
Subtotal					$54,851
Quarterly Groundwater Monitoring and Reporting (1 year qtrly, 2 yrs semi-annual)					
Sample well	ea	130	$268	$34,814	
Analyze water samples from wells					
TPHg	ea	55	$50	$2,750	
Title 22 Metals	ea	75	$70	$5,250	
Data Validation	ea	130	$42	$5,421	
Input analytical results into Presidio Database	ea	130	$18	$2,327	
Dispose of Groundwater Sampling residuals	ea	8	$452	$3,618	
Prepare groundwater monitoring report	ea	8	$5,950	$47,600	
					$101,780
20% Contingency					$20,355.9
Subtotal costs					$122,136
Total Preliminary Estimated Costs					**$176,987**

Except where noted, costs are based on unit rates from the Building 1065 CAP
80-90% reduction in 1 yr to 18 months
Injection spacing every 10 feet - 100 lbs ORC per Injection

Summary of Estimated Costs for Installing ORC advanced & Drain Pipe in 4 foot deep trench along south sidewall, Flushing site with water, Soil Borings, Reporting, and Groundwater Monitoring
Building 1065 Area
Presidio of San Francisco, California

Task Description	Unit	Quantity	Unit Cost	Subtotal	Total
ORC Installation					
Install ORC Advanced and Drainage Pipe	ls	100%	$ 3,500.0	$ 3,500.0	
ORC Advanced Costs	lbs	600	$ 8.3	$ 4,950.0	
Provide resident engineer	week	0.43	$ 5,950.0	$ 2,550.0	
Provide vehicles & equipment	week	0.43	$ 1,547.0	$ 663.0	
					$11,663
Confirmatory Soil Borings					
Driller Charge z	ls	100%	$1,500	$1,500	
Lab Costs					
TPHg	ea	4	$45	$180	
TPHd/TPHfo	ea	4	$70	$280	
VOCs	ea	4	$120	$480	
PAHs	ea	4	$160	$640	
Title 22 Metals	ea	4	$120	$480	
Data Validation	ea	4	$42	$167	
Input analytical results into Presido Database	ea	4	$18	$72	
Provide resident engineer	week	0.15	$5,950	$893	
Provide vehicles & equipment	week	0.15	$1,547	$232	
Collect Soil Confirmation Sample	ea	4	$31	$124	
Prepare Report for RegenOx/Soil Borings	ea	100%	$22,500	$22,500	
					$27,547
20% Contingency					$7,842
Subtotal					$47,051
Quarterly Groundwater Monitoring and Reporting					
Sample well	ea	130	$268	$34,814	
Analyze water samples from wells					
TPHg	ea	55	$50	$2,750	
Title 22 Metals	ea	75	$70	$5,250	
Data Validation	ea	130	$42	$5,421	
Input analytical results into Presidio Database	ea	130	$18	$2,327	
Dispose of Groundwater Sampling residuals	ea	8	$452	$3,618	
Prepare groundwater monitoring report	ea	8	$5,950	$47,600	
					$101,780
20% Contingency					$20,355.92
Subtotal estimated costs					$122,136
Total Preliminary Estimated Costs					**$169,187**

Except where noted, costs are based on unit rates from the Building 1065 CAP

Summary of Estimated Costs for Installing RegenOx, Drain Pipe, Flushing site with water, Soil Borings, Reporting, and Groundwater Monitoring
Building 1065 Area
Presidio of San Francisco, California

Task Description	Unit	Quantity	Unit Cost	Subtotal	Total
RegenOx Installation					
Install RegenOx and Drainage Pipe (from ERRG)	ls	100%	$ 3,500.0	$ 3,500.0	
RegenOx Costs (from Regenesis)	lbs	6000	$ 2.5	$ 15,000.0	
Provide resident engineer	week	0.43	$ 5,950.0	$ 2,550.0	
Provide vehicles & equipment	week	0.43	$ 1,547.0	$ 663.0	
					$21,713
Confirmatory Soil Borings					
Driller Charge	ls	100%	$1,500	$1,500	
Lab Costs					
TPHg	ea	4	$45	$180	
TPHd/TPHfo	ea	4	$70	$280	
VOCs	ea	4	$120	$480	
PAHs	ea	4	$160	$640	
Title 22 Metals	ea	4	$120	$480	
Data Validation	ea	4	$42	$167	
Input analytical results into Presido Database	ea	4	$18	$72	
Provide resident engineer	week	0.15	$5,950	$893	
Provide vehicles & equipment	week	0.15	$1,547	$232	
Collect Soil Confirmation Sample	ea	4	$31	$124	
Prepare Report for RegenOx/Soil Borings	ea	100%	$22,500	$22,500	
					$27,547
Contingency					$9,852
Subtotal					$59,111
Quarterly Groundwater Monitoring and Reporting					
Sample well	ea	130	$268	$34,814	
Analyze water samples from wells					
TPHg	ea	55	$50	$2,750	
Title 22 Metals	ea	75	$70	$5,250	
Data Validation	ea	130	$42	$5,421	
Input analytical results into Presidio Database	ea	130	$18	$2,327	
Dispose of Groundwater Sampling residuals	ea	8	$452	$3,618	
Prepare groundwater monitoring report	ea	8	$5,950	$47,600	
					$101,780
20% Contingency					$20,356
Subtotal					$122,136
Total Preliminary Estimated Costs					**$181,247**

Except where noted, costs are based on unit rates from the Building 1065 CAP

Summary of Estimated Costs for Insjecting RegenOx, Soil Borings, Reporting, and Groundwater
Building 1065 Area
Presidio of San Francisco, California

Task Description	Unit	Quantity	Unit Cost	Subtotal	Total
RegenOx Installation					
Drill Costs (estimate provided by driller)	ls	100%	$ 10,000.0	$ 10,000.0	
RegenOx Costs (from Regenesis)	lbs	6000	$ 2.5	$ 15,000.0	
Provide resident engineer	week	0.43	$ 5,950.0	$ 2,550.0	
Provide vehicles & equipment	week	0.43	$ 1,547.0	$ 663.0	
					$28,213
Confirmatory Soil Borings					
Driller Charge	ls	100%	$1,500	$1,500	
Lab Costs					
TPHg	ea	4	$45	$180	
TPHd/TPHfo	ea	4	$70	$280	
VOCs	ea	4	$120	$480	
PAHs	ea	4	$160	$640	
Title 22 Metals	ea	4	$120	$480	
Data Validation	ea	4	$42	$167	
Input analytical results into Presido Database	ea	4	$18	$72	
Provide resident engineer	week	0.15	$5,950	$893	
Provide vehicles & equipment	week	0.15	$1,547	$232	
Collect Soil Confirmation Sample	ea	4	$31	$124	
Prepare Report for RegenOx/Soil Borings	ea	100%	$22,500	$22,500	
					$27,547
20% contingency					$11,152
Subtotal					$66,911
Quarterly Groundwater Monitoring and Reporting					
Sample well	ea	130	$268	$34,814	
Analyze water samples from wells					
TPHg	ea	55	$50	$2,750	
Title 22 Metals	ea	75	$70	$5,250	
Data Validation	ea	130	$42	$5,421	
Input analytical results into Presidio Database	ea	130	$18	$2,327	
Dispose of Groundwater Sampling residuals	ea	8	$452	$3,618	
Prepare groundwater monitoring report	ea	8	$5,950	$47,600	
					$101,780
20% contingency					$20,355.92
Subtotal					$122,135.52
Total Preliminary Estimated Costs					**$189,047**

Except where noted, costs are based on unit rates from the Building 1065 CAP

APPENDIX F

COMPACTION TEST RESULTS

Reviewed by __SRG__

ERRG

Engineering/Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

Report No.:
Page _____ of _____

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

				Gauge No. M23024755
Date/Time 12-21-07	Job No. 27092	Project/Location Presidio bldg 1063	Source Material Gray 3/4 class 2 ab Am-241 / Cs-137	Density Std. 3460.0
Inspector Rafael Loza	Project Engineer	Other		Moisture Std 2666.0
Curve No.	Max. Density (PCF)	Min. Density (PCF)	Optimum Water (%)	Equipment in Use
1	138.4	131.5	6.2%	Rammax
Specified % Compaction	Specified % Water		Lab Test Method	Field Test Method
95%			ASTM D-1557	ASTM D-2922 ASTM D-3017

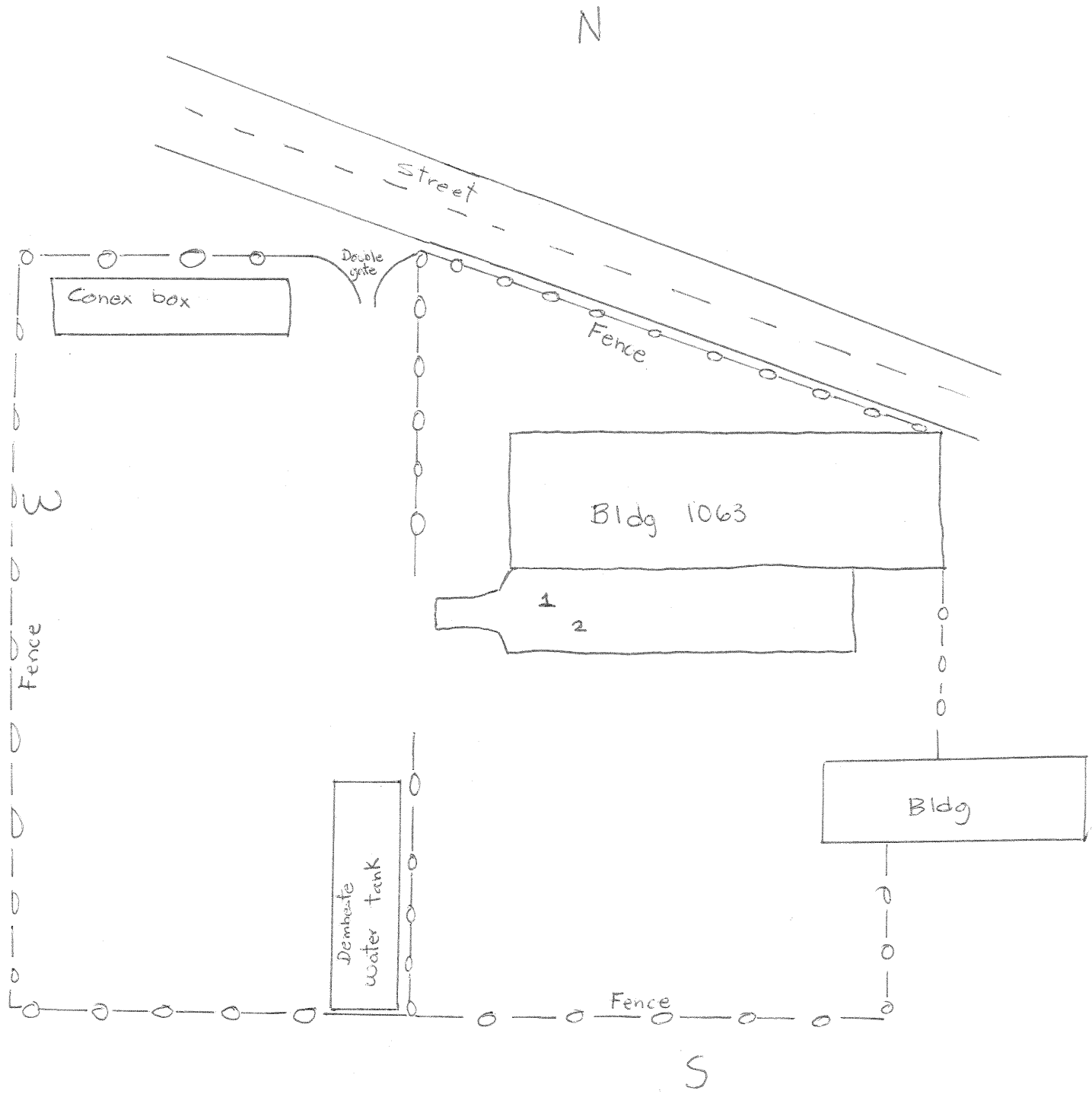
Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevation
1		6"	142.2	8.7	133.5	6.5	96%	W	~~5~~ 4 Ft
2		6"	143.2	9.9	133.3	7.3	96%	S	4 Ft
		Average							

Remarks: _____

Inspector: Rafael Loza

Reviewed: _____


N
Street
Conex box
Double gate
Fence
Bldg 1063
1
2
W
E
Fence
Bldg
Demkote water tank
Fence
S

ERRG

Engineering/Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No. MC3
11/2/08	27-092	Presidio Building 1065	Am-241 / Cs-137	Density Std. ~~95%~~ 27964
Inspector: A Broderick	Project Engineer	Other		Moisture Std NA 17662
Curve No.	Max. Density (PCF)	Min. Density (PCF)	Optimum Water (%)	Equipment in Use
PT1065-01	138.4	131.5	6.2	Wacker, Compactor
Specified % Compaction	Specified % Water	Lab Test Method	Field Test Method	
95%	NA	ASTM D-1557	ASTM D-2922 ASTM D-3017	

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevation
1		6"	150.2	14.5	135.6	10%	98%	SW Bldg 1063	-1'6" bgs *
2		6"	140.5	14.9	125.5	11%	91%	SW Bldg 1063	-2'6" bgs *
3	2	6"	137.7	12.2	125.4	9%	91%	SW Bldg 1063	-2'6" bgs
4	2	6"	148.1	15.0	133.1	10%	96%	SW Bldg 1063	-2'6" bgs
5		6"	141.6	12.9	128.7	9%	93%	SW Bldg 1063	-1' bgs
6	5	6"	141.4	12.3	129.0	9%	93%	SW Bldg 1063	-1' bgs
7	5	6"	144.6	13.0	131.6	9%	95%	SW Bldg 1063	-1' bgs
8		6"	142.8	12.8	130.0	9%	94%	N Bldg 1063	-2' bgs
9		6"	147.8	12.7	135.0	9%	98%	SW Bldg 1063	-1'6" bgs
10	8	6"	149.0	12.7	136.3	9%	98%	N Bldg 1063	-2' bgs
11		6"	150.5	14.2	136.3	9%	98%	N Bldg 1063	-2' bgs
		Average							

Remarks: see map for locations

bgs = below ground surface

* -1'6" and -2'6" bgs are in the same location but vary due to the grade on the surface

Inspector:

Reviewed:

ERRG

Engineering/Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No.
1/2/08	27-092	Presidio Building 1065	Am-241 / Cs-137	MC3
Inspector	**Project Engineer**	**Other**		**Density Std.**
				27964
Curve No.	**Max. Density (PCF)**	**Min. Density (PCF)**	**Optimum Water (%)**	**Moisture Std**
PT1065-01	138.4	131.5	6.2	17662
Specified % Compaction	**Specified % Water**	**Lab Test Method**	**Equipment in Use**	**Field Test Method**
95%	NA	ASTM D-1557	Wacker, Vibromax	ASTM D-2922 ASTM D-3017

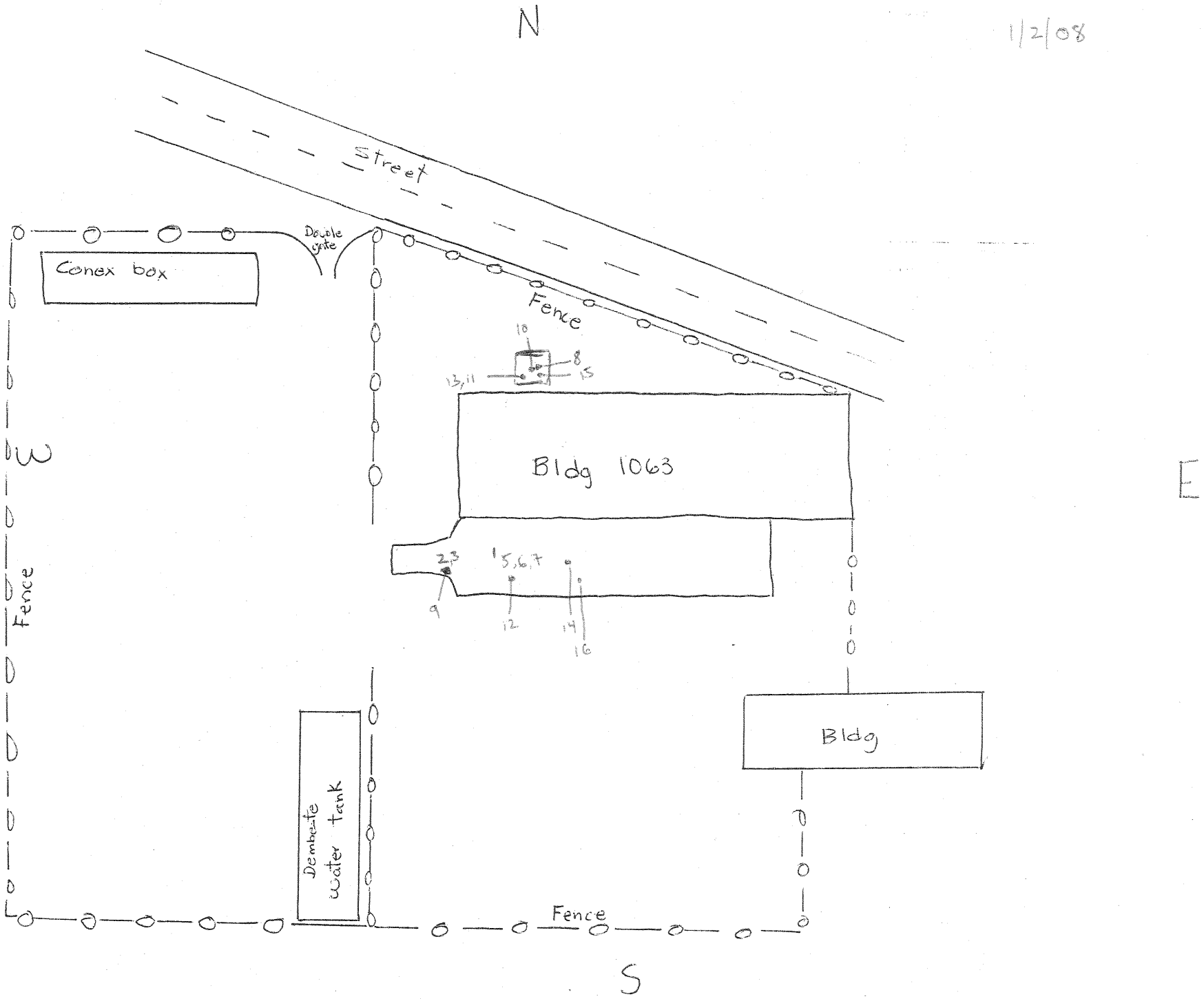
Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevation
12		6"	148.0	12.1	135.8	8%	98%	SW Bldg 1063	-1' bgs
13		6"	144.2	12.0	132.2	8%	95%	N Bldg 1063	-1'6" bgs
14		6"	147.0	13.4	133.6	9%	96%	S Bldg 1063	-4' bgs
15		6"	147.7	13.6	134.1	9%	97%	N Bldg 1063	-1' bgs
16		6"	146.0	13.3	132.7	9%	96%	S Bldg 1063	-3.5' bgs
		Average							

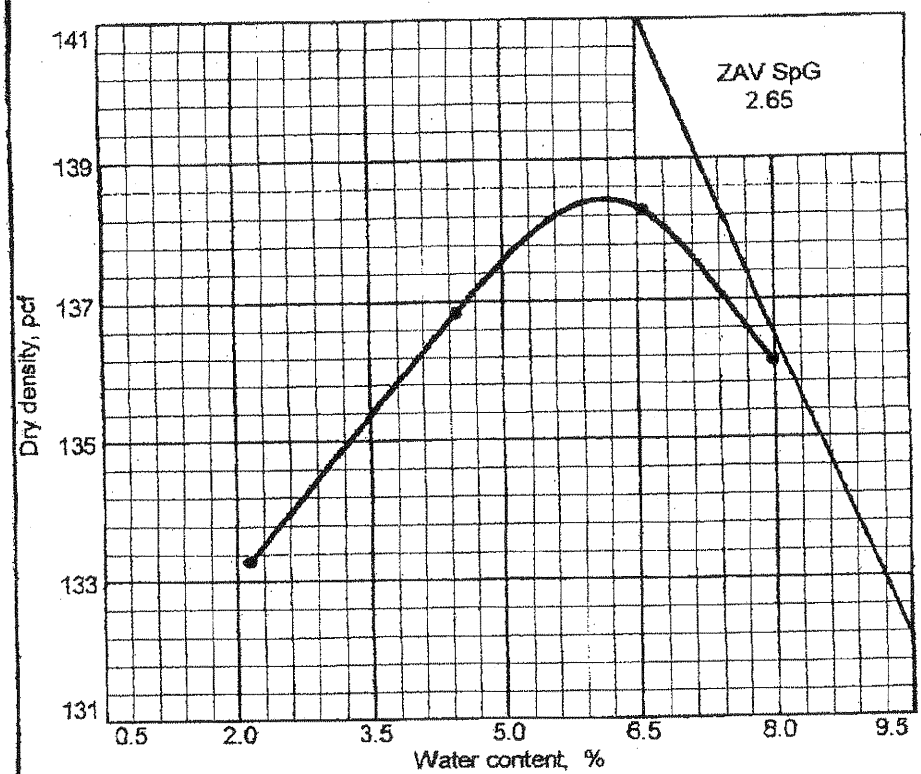
Remarks:

Inspector:

Reviewed:


N
1/2/08
Street
Double gate
Conex box
Fence
10
8
13,11
15
Bldg 1063
2,3
1,5,6,7
9
12
14
16
W
Fence
E
Demineralized water tank
Bldg
Fence
S

COMPACTION TEST REPORT



Curve No.
PT1065-01

Test Specification:
ASTM D 1557-91 Procedure C Modified

Hammer Wt.: 10 lb.
Hammer Drop: 18 in.
Number of Layers: five
Blows per Layer: 56
Mold Size: .075 cu.ft.

Test Performed on Material Passing 3/4 in. **Sieve**

Soil Data

NM _____ **Sp.G.** _____
LL _____ **PI** _____
%>3/4 In. _____ **%<#200** _____
USCS _____ **AASHTO** _____

TESTING DATA

	1	2	3	4	5	6
WM + WS	4631.0	4863.0	5013.0	5001.0		
WM	0.0	0.0	0.0	0.0		
WW + T #1	4631.00	4863.00	5013.00	5001.00		
WD + T #1	4534.00	4655.00	4704.00	4631.00		
TARE #1	0.00	0.00	0.00	0.00		
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	2.1	4.5	6.6	8.0		
DRY DENSITY	133.3	136.8	138.3	136.1		

TEST RESULTS

Maximum dry density = 138.4 pcf

Optimum moisture = 6.2 %

Material Description
GRAY 3/4" CLASS II AB

Project No. 27-092 **Client:** ERRG #27-092
Project: PRESIDIO TRUST BLDG. 1065

• **Location:** IMPORT,DUTRA SAN RAFAEL

Remarks:
CLIENT/JPM,12-13-07

COMPACTION TEST REPORT

CONSTRUCTION MATERIALS TESTING INC.

Plate

ERRG
Engineering/Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

Report No.:
Page 1 of 1

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No. / Density Std.
1/3/07	27-092	Presidio Building 1063	Am-241 / Cs-137	CPN MC3 / 28054
Inspector	**Project Engineer**	**Other**		**Moisture Std**
A Broderick				17616

Curve No.	Max. Density (PCF)	Min. Density (PCF)	Optimum Water (%)	Equipment in Use
PT1065-01	138.4	131.5	6.2	Washer, Vibromax

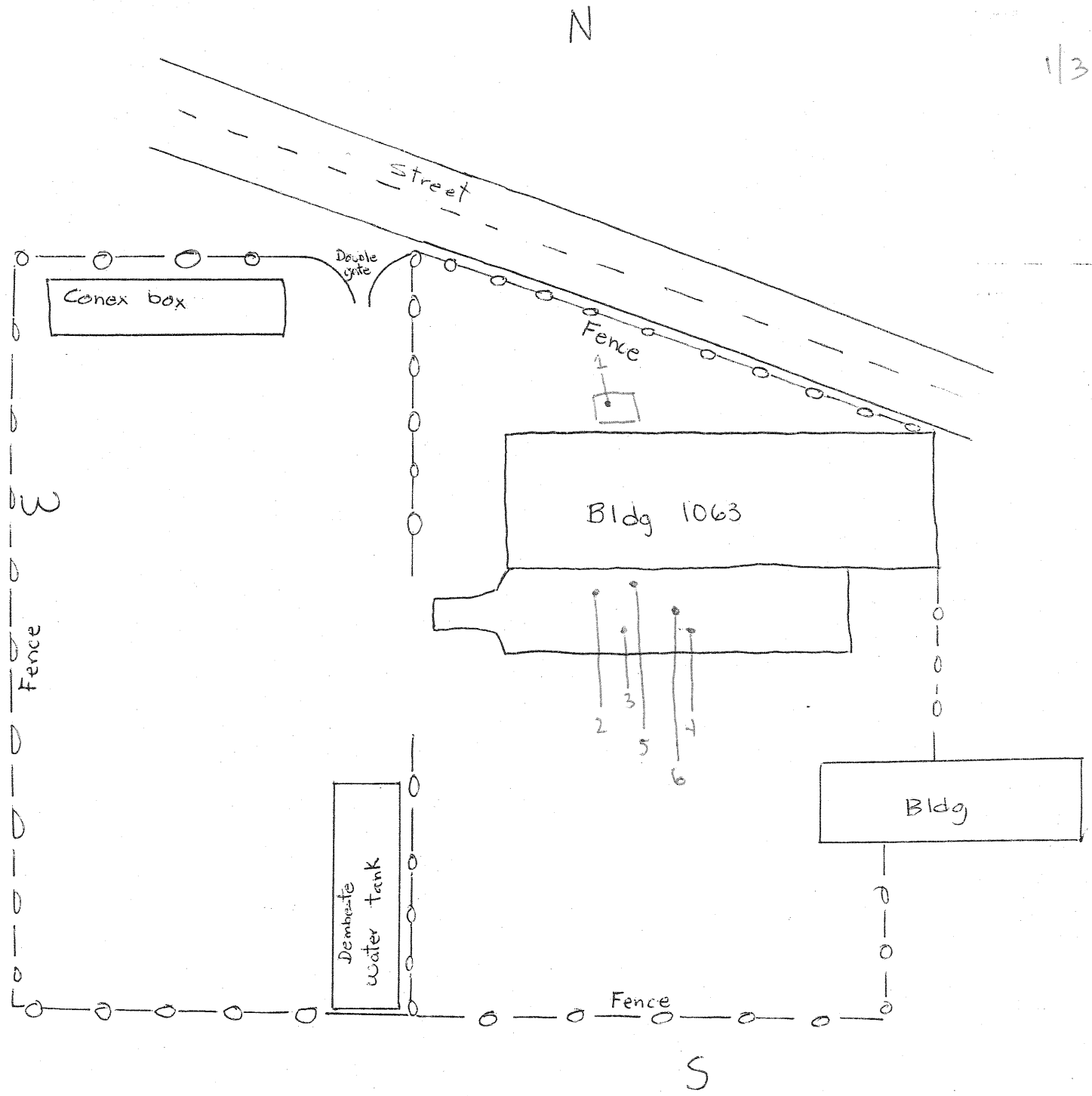
Specified % Compaction	Specified % Water	Lab Test Method	Field Test Method
95%	NA	ASTM D-1557	ASTM D-2922 ASTM D-3017

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevation
1		6"	147.3	14.2	133.1	10%	96%	N Bldg 1063	-0.5ft bgs
2		6"	146.2	13.4	132.8	9%	96%	S Bldg 1063	-3 ft bgs
3		6"	146.6	14.2	132.4	10%	96%	N Bldg 1063	-2.5ft bgs
4		6"	146.1	12.9	133.2	9%	96%	S Bldg 1063	-4ft bgs
5		6"	146.8	13.0	133.8	9%	97%	S Bldg 1063	-2ft bgs
6		6"	148.0	13.5	134.5	9%	97%	S Bldg 1063	-3.5ft bgs
	Average								

Remarks: ft = feet, bgs = below ground surface

Inspector: Reviewed:


N
1/3/08
Street
Double gate
Conex box
Fence
1
Bldg 1063
W
E
Fence
2
3
5
4
6
Bldg
Demineite water tank
Fence
S

ERRG
Environmental Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

Report No.:
Page 1 of

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No.
11/21/08 0725	27-092	Presidio Bldg 1063	Am-241 / Cs-137	AC-3
Inspector	**Project Engineer**	**Other**		**Density Std.**
A Broderick				.27440
Curve No.	**Max. Density (PCF)**	**Min. Density (PCF)**	**Optimum Water (%)**	**Moisture Std**
	138.4	131.5	6.2	17462
Specified % Compaction	**Specified % Water**	**Lab Test Method**	**Field Test Method**	**Equipment in Use**
95%	N/A	ASTM D-1557	ASTM D-2922 ASTM D-3017	Roller, Wacker & Vibromax

Gauge Readings

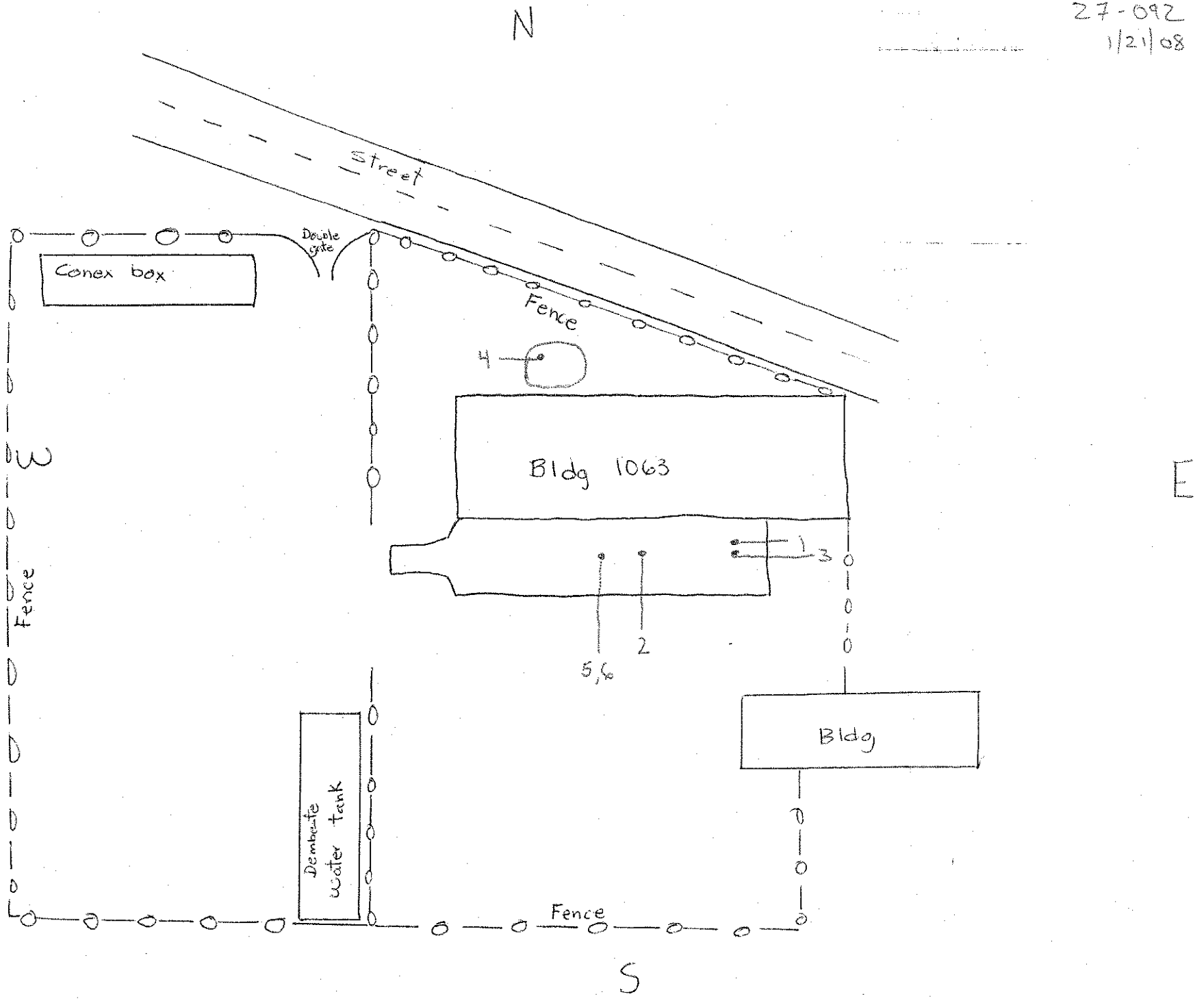
Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Ele
1		6"	141.2	11.9	129.3	8%	93%	SE Bldg 1063	-0.
2		6"	144.2	11.2	133.0	8%	96%	SE Bldg 1063	-1
3	1	6"	148.7	12.2	136.6	8%	99%	SE Bldg 1063	-0.
4		6"	144.1	12.7	131.4	9%	95%	N Bldg 1063	-0
5		6"	148.4	15.0	133.4	10%	96%	S Bldg 1063	-1.5
6		6"	146.2	14.1	132.1	10%	95%	S Bldg 1063	-2.
	Average								

Remarks: See map marked Building 1063 11/21/08

Inspector:

Reviewed:

27-092
1/21/08


N
Street
Double gate
Conex box
Fence
4
Bldg 1063
1
3
2
5,6
W
E
Fence
Bldg
Demineralized water tank
Fence
S

ERRG
Engineering/Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

Report No.:
Page 1 of 2

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No. / Density Std.
4-2-08	27092	PRESIDIO	Am-241 / Cs-137	CPN MC3 / 27068 X1.80
Inspector	**Project Engineer**	**Other**		**Moisture Std**
F. LOZA	T APPEL			160814 X1 1.06

Curve No.	Max. Density (PCF)	Min. Density (PCF)	Optimum Water (%)	Equipment in Use
PT1065-01	138.4	124.6	6.2	ROLLER

Specified % Compaction	Specified % Water	Lab Test Method	Field Test Method
90%	—	ASTM D-1557	ASTM D-2922 ASTM D-3017

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevation
1		6"	146.9	12.6	134.3	9.39	97%		4'
2		6"	141.2	12.5	128.7	9.75	93%		4'
		Average							

Remarks:

Inspector: F. LOZA

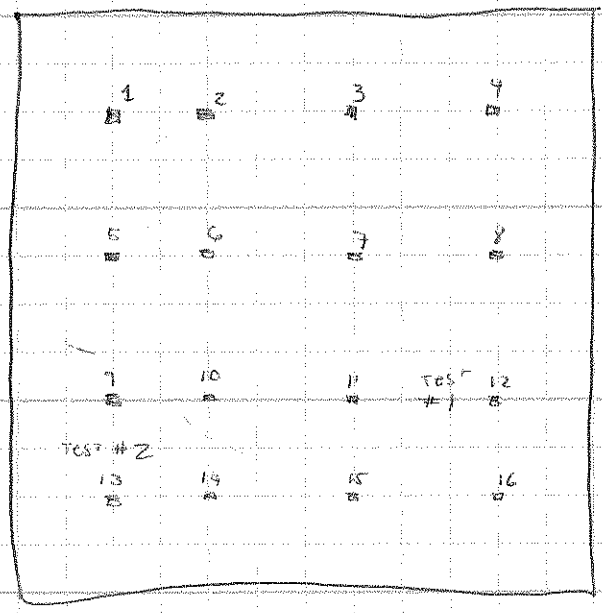
Reviewed:

ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

ERRG

BY F. LOZA DATE 4-2-08 CLIENT PRESIDIO / MACTEC SHEET 2 OF 2

CHECKED BY _____ DESCRIPTION COMPACTION TEST LOCATIONS JOB NO. 27092



TEST #1 - 4' BETWEEN COLUMN 11, 12

TEST #2 - 4' " " 7, 13

ERRG
Engineering/Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

Report No.:

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No. CPN - MC3
4-3-08	27-092	Presidio	Am-241 / Cs-137	Density Std. 27522 Xi. 101
Inspector	Project Engineer	Other		Moisture Std
R. Loza	T. Appel			17324 Xi 1.06

Curve No.	Max. Density (PCF)	Min. Density (PCF)	Optimum Water (%)	Equipment in Use
PT 1065-01	138.4	124.6	6.2	Roller

Specified % Compaction	Specified % Water	Lab Test Method	Field Test Method
90%	—	ASTM D-1557	ASTM D-2922 ASTM D-3017

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevation
1		6"	139.2	12.0	127.3	9.21	91.96		3 1/2 F
2		6"	146.6	12.5	134.0	9.33	97 %		3 1/2 F
3		6"	139.7	12.5	127.1	9.87	92 %		3 Ft
4		6"	137.6	12.7	124.9	10.14	90 %		3 Ft
		Average							

Remarks:

Inspector:

Reviewed:

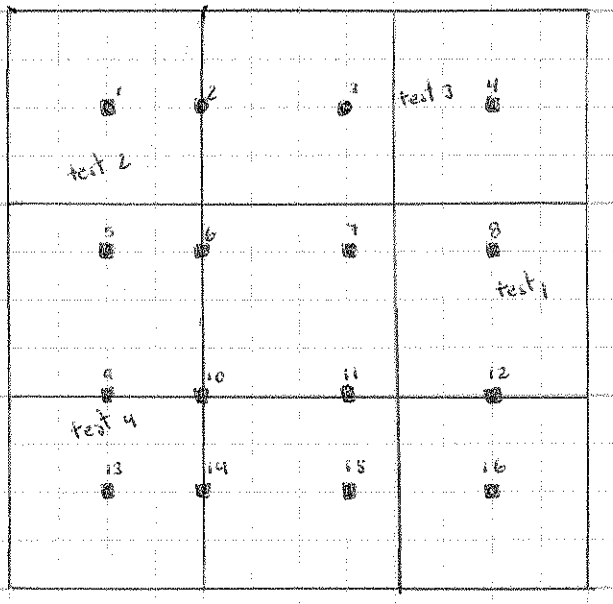
ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

ERRG

BY R. Loza DATE 4-3-08 CLIENT Presidio / Mactec SHEET 2 OF 2

CHECKED BY _____ DESCRIPTION Compaction test JOB NO. 27092

N



E

Test 1 - 3½ Between colum 8 and 12
Test 2 - 3½ Between colum 1 and 5
Test 3 - 3 Ft Between colum 3 and 4
Test 4 - 3 Ft Between colum 9 and 13

ERRG
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No. CPN MC3
4-4-08	27-092	PRESIDIO	Am-241 / Cs-137	Density Std. 27434 X1.83
Inspector	Project Engineer	Other		Moisture Std
F. LOZA	T. APPEL			16528 X1.78

Curve No.	Max. Density (PCF)	Min. Density (PCF)	Optimum Water (%)	Equipment in Use
PT 1065-01	138.4	124.6	6.2	ROLLER

Specified % Compaction	Specified % Water	Lab Test Method	Field Test Method
90%	—	ASTM D-1557	ASTM D-2922 ASTM D-3017

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevati
1		6"	138.0	11.5	126.5	9.07	91%		2'½"
2		6"	136.5	11.2	125.3	9.01	91%		2' ½
3		6"	137.0	11.9	125.0	9.5	91%		2' FT
4		6"	138.3	11.9	126.4	9.43	91%		2' F
		Average							

Remarks: _____

Inspector: F. LOZA

Reviewed: _____

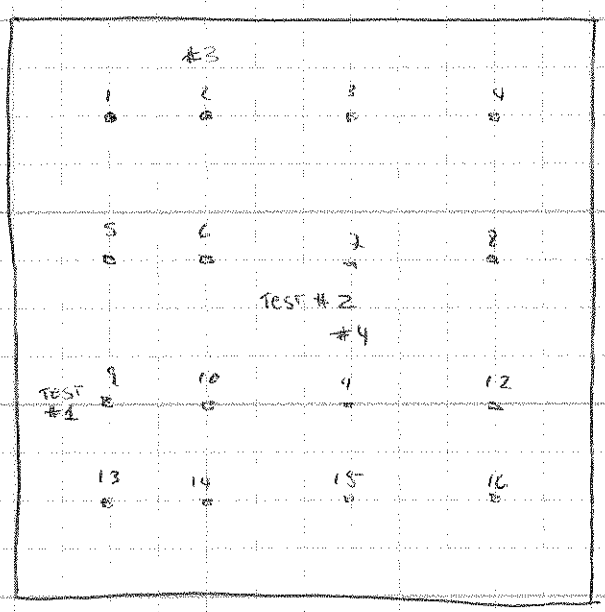
ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

ERRG

BY F. LOZA DATE 4-4-08 CLIENT PRESIDIO / MACTEC SHEET 2 OF 2

CHECKED BY _____ DESCRIPTION COMPACTION TEST LOCATIONS JOB NO. 27092

N



E

TEST # 1	2'½"	BETWEEN	COLUMN 9 and W end
TEST # 2	2'½"	BETWEEN	COLUMN 6 and 7
TEST # 3	2'	BETWEEN	COLUMN 2 and N end
TEST # 4	2'	Between	column 7 and 11

ERRG
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No. (PN MC3)
4-7-08	27092	PRESIDIO	Am-241 / Cs-137	Density Std. 27342 X1.0
Inspector	**Project Engineer**	**Other**		**Moisture Std**
F. LOZA	T. APPEL			17394 X1.97

Curve No.	Max. Density (PCF)	Min. Density (PCF)	Optimum Water (%)	Equipment in Use
PT1065-01	138.4	124.6	6.2	ROLLER

Specified % Compaction	Specified % Water	Lab Test Method	Field Test Method
90%	—	ASTM D-1557	ASTM D-2922 ASTM D-3017

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevat
1		6"	144.1	11.2	132.9	8.42	96%		1'½"
2		6"	138.0	12.2	125.7	9.71	91%		1'½"
3		6"	147.1	12.8	134.3	9.55	97%		1'
4		6"	145.3	12.7	132.6	9.55	96%		1'
		Average							

Remarks:

Inspector:

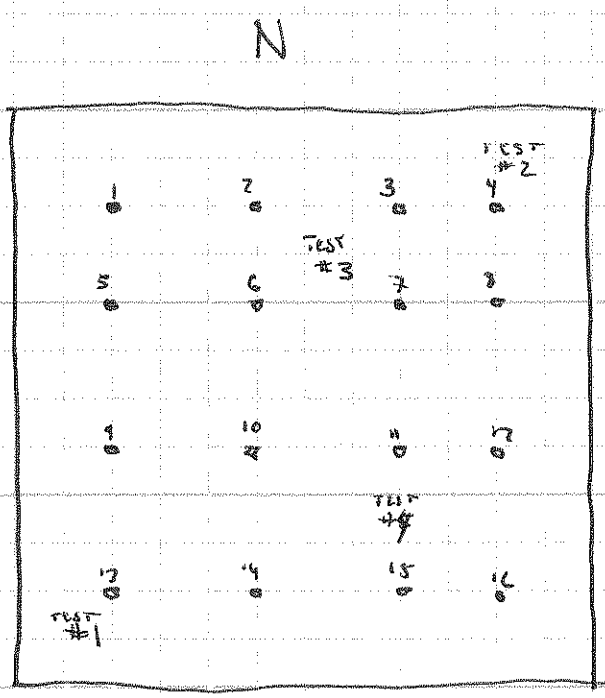
Reviewed:

ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

ERRG

BY T. LOZA DATE 4-7-08 CLIENT PRESIDIO (MACTEC) SHEET 1 OF 2

CHECKED BY _____ DESCRIPTION COMPACTION TEST LOCATION JOB NO. 27092



TEST	#1	1'½"	BETWEEN	COLUMN	13	and S end
TEST	#2	1'½"	BETWEEN	COLUMN	4	and N end
TEST	#3	1'	Between	column	2	and 7
TEST	#4	1'	Between	column	11	and 15

ERRG

Engineering/Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No. CPN 4C3
4-8-08	27092	PRESIDIO	Am-241 / Cs-137	Density Std. 27864 x1.93
Inspector F. LOZA	Project Engineer T. APPEL	Other		Moisture Std 17956 X1.98
Curve No.	Max. Density (PCF)	Min. Density (PCF)	Optimum Water (%)	Equipment in Use
PT-1065-01		124.6		ROUTER
Specified % Compaction	Specified % Water	Lab Test Method	Field Test Method	
90%	—	ASTM D-1557	ASTM D-2922 ASTM D-3017	

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevation
1		6"	149.8	13.0	136.9	9.47	99%		6"
2		6"	147.6	12.7	134.9	9.46	97%		6"
Average									

Remarks:

Inspector:

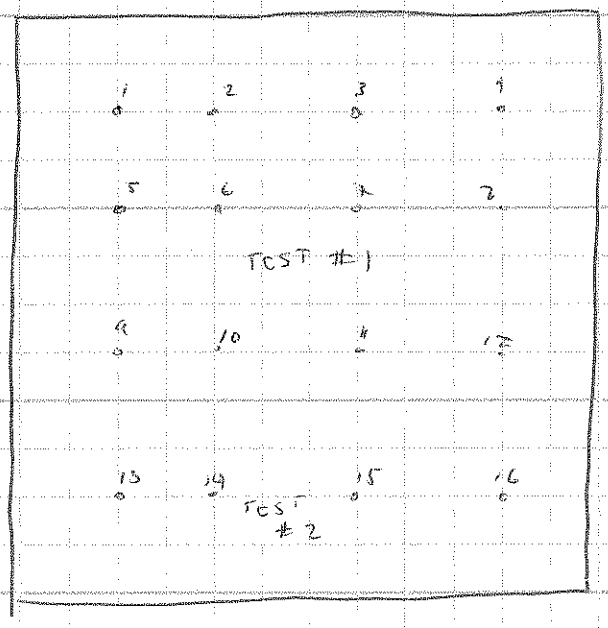
Reviewed:

ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

ERRG

BY F. LOZA DATE 4-8-08 CLIENT PRESIDIO (MACTEC) SHEET 2 OF 2

CHECKED BY _____ DESCRIPTION COMPACTION TEST LOCATION JOB NO. 27092



TEST #1 6" BETWEEN COLUMN 6 and 11

TEST #2 6" BETWEEN COLUMN 14 and S end

ERRG
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Date/Time	Job No.	Project/Location	Source Material	Gauge No / Density Std.
4-9-08	27092	PRESIDIO	Am-241 / Cs-137	CPN 4C3 / 27546 X1 .9
Inspector	**Project Engineer**	**Other**		**Moisture Std**
F. LOZA	T. APPEL			17644 X1 1.0
Curve No.	**Max. Density (PCF)**	**Min. Density (PCF)**	**Optimum Water (%)**	**Equipment in Use**
PT 1065-01	139.4	124.6	6.2	ROLLER
Specified % Compaction	**Specified % Water**		**Lab Test Method**	**Field Test Method**
	—		ASTM D-1557	ASTM D-2922 ASTM D-3017

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevat
1		6"	144.8	12.9	131.9	9.82	95%		LEVEL W TH SOIL
2		6"	146.3	12.1	134.2	9.01	97%		1
		Average							

Remarks:

Inspector: F. LOZA

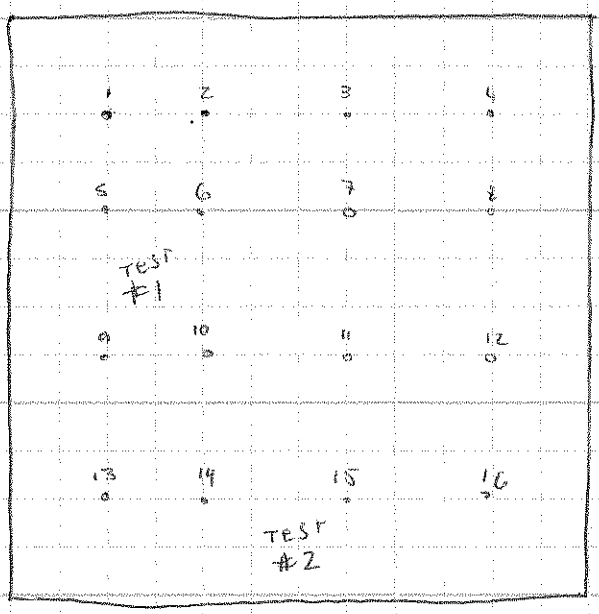
Reviewed:

ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

ERRG

BY F. LOZA DATE 4-9-08 CLIENT PRESIDIO MACTEC SHEET 2 OF 2

CHECKED BY _____ DESCRIPTION COMPACTION TEST LOCATIONS JOB NO. 27092



TEST #1 TOP LAYER BETWEEN COLUMN 5 and 10

TEST #2 TOP LAYER BETWEEN COLUMN 15 and 5 end

ERRG

Engineering/Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

Report No.: 27092 E-2

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

Gauge No. CPN MC7				
Date/Time: 6-9-2008	Job No.: 27-092	Project/Location: Presidio	Source Material: Am-241 / Cs-137	Density Std.: 27944
Inspector: V. V.	Project Engineer: TRA	Other		Moisture Std: 17815
Curve No.: PT-1065-01	Max. Density (PCF): 138.4	Min. Density (PCF): 124.6 @90% 131.4 @	Optimum Water (%): 6.2	Equipment in Use: Wacker (Jumping Jack)
Specified % Compaction: 90% Below - kgs 95% Above - kgs	Specified % Water: 95%		Lab Test Method: ASTM D-1557	Field Test Method: ASTM D-2922 ASTM D-3017

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevation
1		6"	139.8	8.5	131.3	6.5	95	PL Trench	-4
2		6"	142.7	8.9	133.8	6.7	97	"	-3.5
3		6"	138.0	8.4	129.6	6.5	94	"	-3.0
4		6"	147.2	14.6	132.6	11.0	96	"	-2.5
5		6"	139.1	8.2	130.9	6.3	95	"	-2.0
6		6"	131.6	8.4	123.2	6.8	89	"	-1.5
7	6	6"	144.6	9.6	135.0	7.1	98	"	-1.5
		Average							

Remarks:

#7 is a Retest of #6

Inspector: V. V.

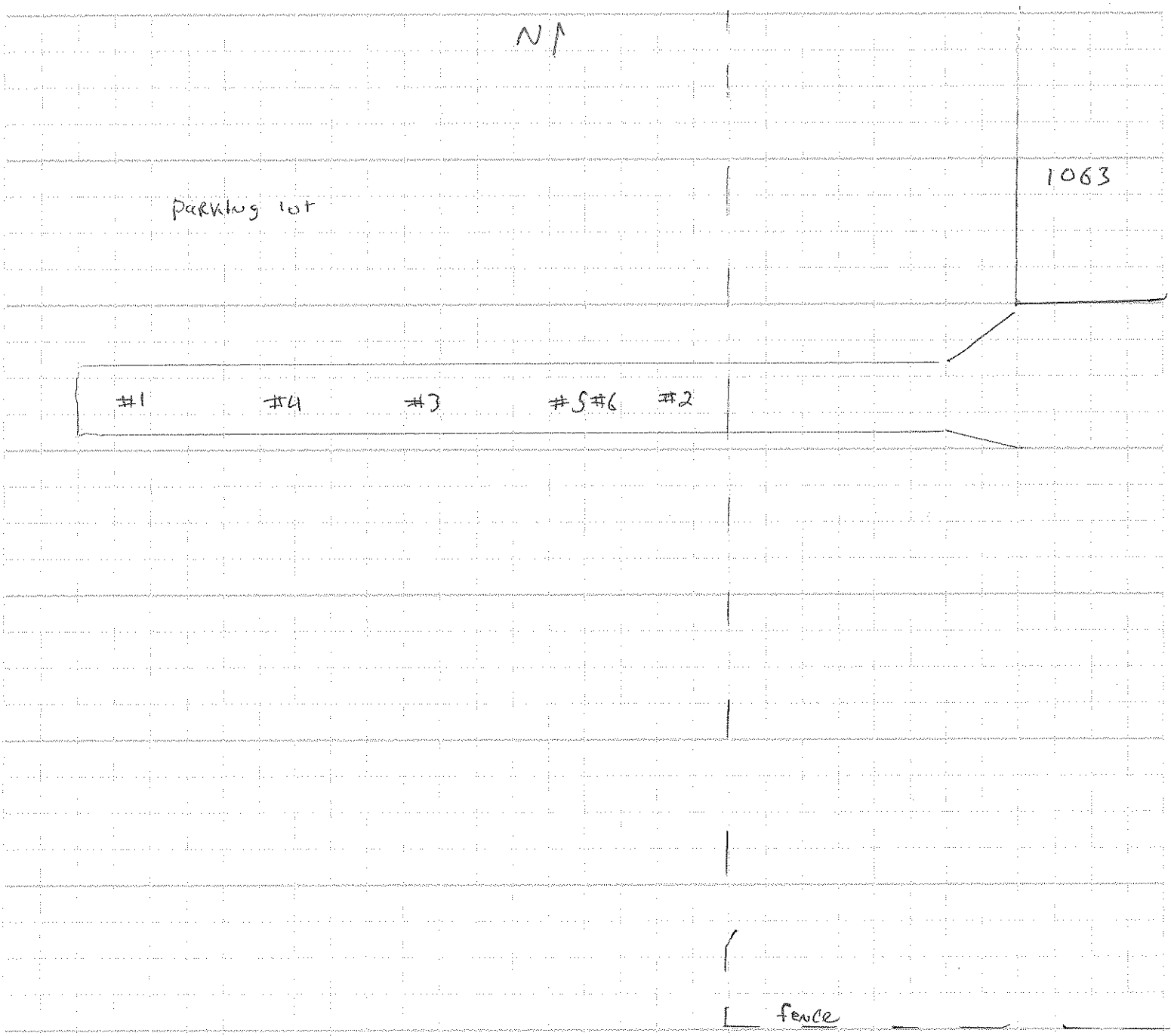
Reviewed: TRA.

ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

ERRG

BY 6-9-2008 DATE V. V. CLIENT Presidio TRUST SHEET 2 OF 2

CHECKED BY TRA DESCRIPTION Test locations JOB NO. 27-092



#'S = test Number

ERRG

Engineering/Remediation Resources Group, Inc.
185 Mason Circle, Suite A
Concord, CA 94520
Phone: (925) 969-0750
Fax: (925) 969-0751

SOILS TESTING NUCLEAR DENSITY/MOISTURE GAUGE FIELD TEST REPORT

				Gauge No. CPN MC3
Date/Time 6-10-2008	Job No. 27-092	Project/Location Presidio	Source Material Am-241 / Cs-137	Density Std. 27855
Inspector U.U.	Project Engineer TRA	Other		Moisture Std 17992
Curve No.	Max. Density (PCF)	Min. Density (PCF)	Optimum Water (%)	Equipment in Use
PT-1065-01	138.4	124.6 @ 90% 131.48 @ 95%	6.2	
Specified % Compaction	Specified % Water		Lab Test Method	Field Test Method
90% @ <1 95% >1	—		ASTM D-1557	ASTM D-2922 ASTM D-3017

Gauge Readings

Test No.	Retest	Test Depth	Total Density	Total Water	Dry Density	% Water	%Proctor (% compact)	Location	Elevation
1		6"	140.7	12.1	128.6	9.4	93	PL Trench	-1
2	1	6"	141.9	11.8	130.1	11.03	94	"	-1
3	2	6"	143.6	11.6	132.0	8.8	95	"	-1
4		6"	141.7	11.7	130.0	9.0	94	"	-0.5
5	4	6"	144.9	10.2	134.7	7.6	97	"	-0.5
		Average							

Remarks:

tests #2+3 are retest of #1

test #5 is a retest of #5

Inspector: U. U.

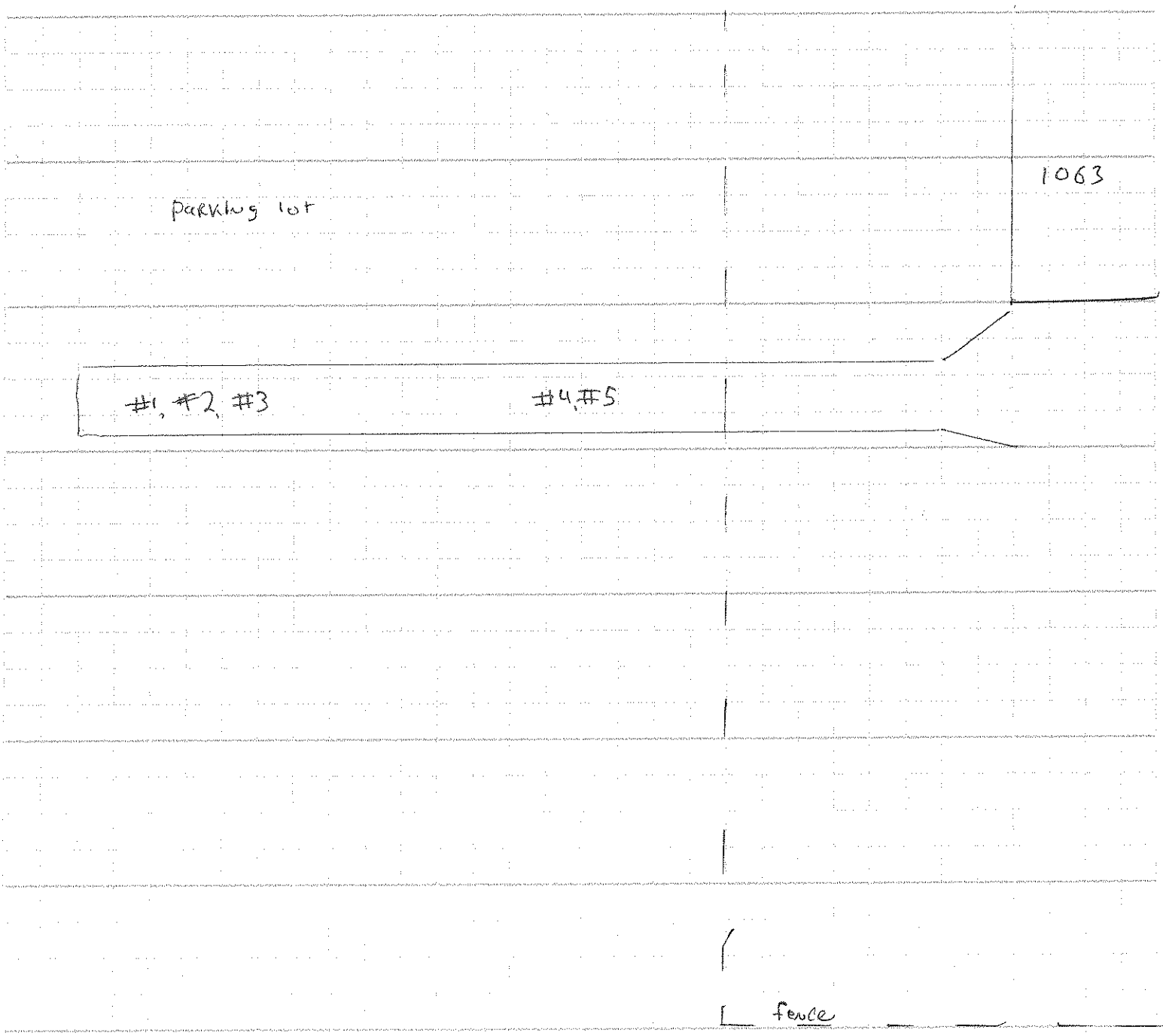
Reviewed: TRA

ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

ERRG

BY 6-10-2008 DATE V. V. CLIENT Presidio Trust SHEET 2 OF 2

CHECKED BY TRA DESCRIPTION Test locations JOB NO. 27-092



APPENDIX G

LABORATORY REPORTS – SOIL STOCKPILE SAMPLING

APPENDIX G
LABORATORY REPORTS – SOIL STOCKPILE SAMPLING

CONTENTS

Table G-1 - Summary of Sample IDs
Analytical Report, Job Number 720-13275-1 - TPHd, TPHmo, TPHg, BTEX, LUFT 5 Metals, PCBs, and Asbestos Results
Analytical Report, Job Number 720-13275-2 - STLC Results
Analytical Report, Job Number 720-13275-3 - TCLP Results
Analytical Report Job Number 720-13872-1 - TPHd, TPHmo, TPHg, BTEX, LUFT 5 Metals Results
Analytical Report, Job Number 720-13872-2 - STLC Results
Analytical Report, Job Number 720-14442-1 – STLC Results
Analytical Report, Job Number 720-14442-2 - TPHd, TPHmo, TPHg, BTEX, LUFT 5 Metals Results

Reviewed by __SRG__

Table G-1. Summary of Sample IDs
Soil Stockpile Samples
Building 1065 Area

Sample Date	SDG	COC Number	Number of Samples	Sample IDs	Lab	Comments
3/2/08	720-13275	109687	2	1065SC300[A,B,C,D] 1065SC301[A,B,C,D]	TA "	
4/14/08	720-13872	110289	1	1065SC302[A,B,C,D]	TA	
5/22/08	720-14442	110859	1	1065SC303[A,B,C,D]	TA	

Notes:
SDG = Sample Delivery Group
COC = Chain of Custody
TA = Test America

Reviewed by __SRG__
Checked by __MJH__

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-13275-1

Job Description: Presidio Building 1065 Remediation

For:
ERRG
115 Sansome Street
Suite 200
San Francisco, CA 94104

Attention: Tyson Appel

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
03/05/2008

cc: Mr. James Medley

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 32585 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-13275-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-13275-5	**1065SC300A,B,C,D**				
Diesel Range Organics [C10-C28]		52	0.99	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		160	50	mg/Kg	8015B
Chromium		63	1.0	mg/Kg	6010B
Nickel		41	1.0	mg/Kg	6010B
Lead		93	1.0	mg/Kg	6010B
Zinc		62	1.0	mg/Kg	6010B
720-13275-10	**1065SC301A,B,C,D**				
Diesel Range Organics [C10-C28]		50	0.99	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		140	49	mg/Kg	8015B
Chromium		46	0.97	mg/Kg	6010B
Nickel		37	0.97	mg/Kg	6010B
Lead		100	0.97	mg/Kg	6010B
Zinc		92	0.97	mg/Kg	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-13275-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B	
Purge and Trap for Solids	TAL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL SF	SW846 8082	
Ultrasonic Extraction	TAL SF		SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL SF		SW846 3050B
General Sub Contract Method	SC0109	Subcontract	

Lab References:

SC0109 = Forensic Analytical Specialties, Inc

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG

Job Number: 720-13275-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-13275-5	1065SC300A,B,C,D	Solid	03/02/2008 1215	03/03/2008 1835
720-13275-10	1065SC301A,B,C,D	Solid	03/02/2008 1235	03/03/2008 1835

Client: ERRG

Job Number: 720-13275-1

Client Sample ID: **1065SC300A,B,C,D**

Lab Sample ID: 720-13275-5
Client Matrix: Solid

Date Sampled: 03/02/2008 1215
Date Received: 03/03/2008 1835

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/03/2008 1949
Date Prepared: 03/03/2008 0802

Analysis Batch: 720-32570
Prep Batch: 720-32574

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200803\03
Initial Weight/Volume: 5.09 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0049
Ethylbenzene		ND		0.0049
Toluene		ND		0.0049
MTBE		ND		0.0049
Xylenes, Total		ND		0.0098
Gasoline Range Organics (GRO)-C5-C12		ND		0.25

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	91	60 - 140

Client: ERRG

Job Number: 720-13275-1

Client Sample ID: **1065SC301A,B,C,D**

Lab Sample ID: 720-13275-10
Client Matrix: Solid

Date Sampled: 03/02/2008 1235
Date Received: 03/03/2008 1835

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/03/2008 2011
Date Prepared: 03/03/2008 0802

Analysis Batch: 720-32570
Prep Batch: 720-32574

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200803\03
Initial Weight/Volume: 5.27 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0047
Ethylbenzene		ND		0.0047
Toluene		ND		0.0047
MTBE		ND		0.0047
Xylenes, Total		ND		0.0095
Gasoline Range Organics (GRO)-C5-C12		ND		0.24

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	96	60 - 140

Client: ERRG

Job Number: 720-13275-1

Client Sample ID: 1065SC300A,B,C,D

Lab Sample ID: 720-13275-5
Client Matrix: Solid

Date Sampled: 03/02/2008 1215
Date Received: 03/03/2008 1835

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/04/2008 1128
Date Prepared: 03/04/2008 0842

Analysis Batch: 720-32616
Prep Batch: 720-32586

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.17 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		52		0.99
Motor Oil Range Organics [C24-C36]		160		50

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	92	40 - 119

Client: ERRG

Job Number: 720-13275-1

Client Sample ID: 1065SC301A,B,C,D

Lab Sample ID: 720-13275-10
Client Matrix: Solid

Date Sampled: 03/02/2008 1235
Date Received: 03/03/2008 1835

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/04/2008 1101
Date Prepared: 03/04/2008 0842

Analysis Batch: 720-32616
Prep Batch: 720-32586

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.35 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		50		0.99
Motor Oil Range Organics [C24-C36]		140		49

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	88	40 - 119

Client: ERRG

Job Number: 720-13275-1

Client Sample ID: **1065SC300A,B,C,D**

Lab Sample ID: 720-13275-5
Client Matrix: Solid

Date Sampled: 03/02/2008 1215
Date Received: 03/03/2008 1835

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/04/2008 2341
Date Prepared: 03/04/2008 0729

Analysis Batch: 720-32639
Prep Batch: 720-32583

Instrument ID: Agilent PCB 2
Lab File ID: N/A
Initial Weight/Volume: 30.07 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	83	46 - 111
DCB Decachlorobiphenyl	73	34 - 106

Client: ERRG

Job Number: 720-13275-1

Client Sample ID: **1065SC301A,B,C,D**

Lab Sample ID: 720-13275-10
Client Matrix: Solid

Date Sampled: 03/02/2008 1235
Date Received: 03/03/2008 1835

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/05/2008 0000
Date Prepared: 03/04/2008 0729

Analysis Batch: 720-32639
Prep Batch: 720-32583

Instrument ID: Agilent PCB 2
Lab File ID: N/A
Initial Weight/Volume: 30.35 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		49
PCB-1221		ND		49
PCB-1232		ND		49
PCB-1242		ND		49
PCB-1248		ND		49
PCB-1254		ND		49
PCB-1260		ND		49

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	84	46 - 111
DCB Decachlorobiphenyl	77	34 - 106

Client: ERRG

Job Number: 720-13275-1

Client Sample ID: 1065SC300A,B,C,D

Lab Sample ID: 720-13275-5
Client Matrix: Solid

Date Sampled: 03/02/2008 1215
Date Received: 03/03/2008 1835

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/04/2008 1425
Date Prepared: 03/04/2008 0758

Analysis Batch: 720-32602
Prep Batch: 720-32585

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Cadmium		ND		0.50
Chromium		63		1.0
Nickel		41		1.0
Lead		93		1.0
Zinc		62		1.0

Client: ERRG

Job Number: 720-13275-1

Client Sample ID: 1065SC301A,B,C,D

Lab Sample ID: 720-13275-10
Client Matrix: Solid

Date Sampled: 03/02/2008 1235
Date Received: 03/03/2008 1835

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/04/2008 1428
Date Prepared: 03/04/2008 0758

Analysis Batch: 720-32602
Prep Batch: 720-32585

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Cadmium		ND		0.49
Chromium		46		0.97
Nickel		37		0.97
Lead		100		0.97
Zinc		92		0.97

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-13275-1

Lab Section	Qualifier	Description
Metals		
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits

Client: ERRG

Job Number: 720-13275-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-32570					
LCS 720-32574/1-A	Lab Control Spike	T	Solid	8260B	720-32574
LCSD 720-32574/2-A	Lab Control Spike Duplicate	T	Solid	8260B	720-32574
MB 720-32574/3-A	Method Blank	T	Solid	8260B	720-32574
720-13275-5	1065SC300A,B,C,D	T	Solid	8260B	720-32574
720-13275-10	1065SC301A,B,C,D	T	Solid	8260B	720-32574
Prep Batch: 720-32574					
LCS 720-32574/1-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-32574/2-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-32574/3-A	Method Blank	T	Solid	5030B	
720-13275-5	1065SC300A,B,C,D	T	Solid	5030B	
720-13275-10	1065SC301A,B,C,D	T	Solid	5030B	

Report Basis
T = Total

Client: ERRG Job Number: 720-13275-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-32583					
LCS 720-32583/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-32583/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-32583/1-A	Method Blank	T	Solid	3550B	
720-13275-5	1065SC300A,B,C,D	T	Solid	3550B	
720-13275-10	1065SC301A,B,C,D	T	Solid	3550B	
720-13275-10MS	Matrix Spike	T	Solid	3550B	
720-13275-10MSD	Matrix Spike Duplicate	T	Solid	3550B	
Prep Batch: 720-32586					
LCS 720-32586/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-32586/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-32586/1-A	Method Blank	T	Solid	3550B	
720-13275-5	1065SC300A,B,C,D	T	Solid	3550B	
720-13275-5MS	Matrix Spike	T	Solid	3550B	
720-13275-5MSD	Matrix Spike Duplicate	T	Solid	3550B	
720-13275-10	1065SC301A,B,C,D	T	Solid	3550B	
Analysis Batch:720-32616					
LCS 720-32586/2-A	Lab Control Spike	T	Solid	8015B	720-32586
LCSD 720-32586/3-A	Lab Control Spike Duplicate	T	Solid	8015B	720-32586
MB 720-32586/1-A	Method Blank	T	Solid	8015B	720-32586
720-13275-5	1065SC300A,B,C,D	T	Solid	8015B	720-32586
720-13275-5MS	Matrix Spike	T	Solid	8015B	720-32586
720-13275-5MSD	Matrix Spike Duplicate	T	Solid	8015B	720-32586
720-13275-10	1065SC301A,B,C,D	T	Solid	8015B	720-32586
Analysis Batch:720-32639					
LCS 720-32583/2-A	Lab Control Spike	T	Solid	8082	720-32583
LCSD 720-32583/3-A	Lab Control Spike Duplicate	T	Solid	8082	720-32583
MB 720-32583/1-A	Method Blank	T	Solid	8082	720-32583
720-13275-5	1065SC300A,B,C,D	T	Solid	8082	720-32583
720-13275-10	1065SC301A,B,C,D	T	Solid	8082	720-32583
720-13275-10MS	Matrix Spike	T	Solid	8082	720-32583
720-13275-10MSD	Matrix Spike Duplicate	T	Solid	8082	720-32583

Report Basis
T = Total

Client: ERRG Job Number: 720-13275-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-32585					
LCS 720-32585/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-32585/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
MB 720-32585/1-A	Method Blank	T	Solid	3050B	
720-13275-5	1065SC300A,B,C,D	T	Solid	3050B	
720-13275-10	1065SC301A,B,C,D	T	Solid	3050B	
720-13276-A-1-A MS	Matrix Spike	T	Solid	3050B	
720-13276-A-1-B MSD	Matrix Spike Duplicate	T	Solid	3050B	
Analysis Batch:720-32602					
LCS 720-32585/2-A	Lab Control Spike	T	Solid	6010B	720-32585
LCSD 720-32585/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-32585
MB 720-32585/1-A	Method Blank	T	Solid	6010B	720-32585
720-13275-5	1065SC300A,B,C,D	T	Solid	6010B	720-32585
720-13275-10	1065SC301A,B,C,D	T	Solid	6010B	720-32585
720-13276-A-1-A MS	Matrix Spike	T	Solid	6010B	720-32585
720-13276-A-1-B MSD	Matrix Spike Duplicate	T	Solid	6010B	720-32585

Report Basis
T = Total

Client: ERRG

Job Number: 720-13275-1

Method Blank - Batch: 720-32574

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-32574/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/03/2008 1011
Date Prepared: 03/03/2008 0802

Analysis Batch: 720-32570
Prep Batch: 720-32574
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200803\03
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Ethylbenzene	ND		0.0050
Toluene	ND		0.0050
MTBE	ND		0.0050
Xylenes, Total	ND		0.010
Gasoline Range Organics (GRO)-C5-C12	ND		0.25

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	99	60 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13275-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-32574

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-32574/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/03/2008 1034
Date Prepared: 03/03/2008 0802

Analysis Batch: 720-32570
Prep Batch: 720-32574
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200803\0
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-32574/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/03/2008 1056
Date Prepared: 03/03/2008 0802

Analysis Batch: 720-32570
Prep Batch: 720-32574
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200803\030
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	80	86	70 - 123	8	20		
Toluene	91	99	81 - 128	8	20		
MTBE	98	108	69 - 133	9	20		
Gasoline Range Organics (GRO)-C5-C12	56	62	51 - 97	11	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	100	102	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	109	60 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Method Blank - Batch: 720-32586

Method: 8015B
Preparation: 3550B

Lab Sample ID: MB 720-32586/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/04/2008 1344
Date Prepared: 03/04/2008 0842

Analysis Batch: 720-32616
Prep Batch: 720-32586
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.29 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	96	40 - 119

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-32586

Method: 8015B
Preparation: 3550B

LCS Lab Sample ID: LCS 720-32586/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/04/2008 1250
Date Prepared: 03/04/2008 0842

Analysis Batch: 720-32616
Prep Batch: 720-32586
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.30 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-32586/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/04/2008 1317
Date Prepared: 03/04/2008 0842

Analysis Batch: 720-32616
Prep Batch: 720-32586
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.22 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	82	83	50 - 130	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	95	95	40 - 119

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13275-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-32586

Method: 8015B
Preparation: 3550B

MS Lab Sample ID:	720-13275-5	Analysis Batch: 720-32616	Instrument ID: HP DRO5
Client Matrix:	Solid	Prep Batch: 720-32586	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 30.35 g
Date Analyzed:	03/04/2008 1155		Final Weight/Volume: 5 mL
Date Prepared:	03/04/2008 0842		Injection Volume:
			Column ID: PRIMARY
MSD Lab Sample ID:	720-13275-5	Analysis Batch: 720-32616	Instrument ID: HP DRO5
Client Matrix:	Solid	Prep Batch: 720-32586	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 30.33 g
Date Analyzed:	03/04/2008 1222		Final Weight/Volume: 5 mL
Date Prepared:	03/04/2008 0842		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diesel Range Organics [C10-C28]	91	123	50 - 130	14	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
p-Terphenyl	81	79	40 - 119

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13275-1

Method Blank - Batch: 720-32583

Method: 8082
Preparation: 3550B

Lab Sample ID: MB 720-32583/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/04/2008 2244
Date Prepared: 03/04/2008 0729

Analysis Batch: 720-32639
Prep Batch: 720-32583
Units: ug/Kg

Instrument ID: Agilent PCB 2
Lab File ID: N/A
Initial Weight/Volume: 30.25 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		50
PCB-1221	ND		50
PCB-1232	ND		50
PCB-1242	ND		50
PCB-1248	ND		50
PCB-1254	ND		50
PCB-1260	ND		50

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	85	46 - 111
DCB Decachlorobiphenyl	93	34 - 106

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13275-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-32583

Method: 8082
Preparation: 3550B

LCS Lab Sample ID: LCS 720-32583/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/04/2008 2303
Date Prepared: 03/04/2008 0729

Analysis Batch: 720-32639
Prep Batch: 720-32583
Units: ug/Kg

Instrument ID: Agilent PCB 2
Lab File ID: N/A
Initial Weight/Volume: 30.26 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-32583/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/04/2008 2322
Date Prepared: 03/04/2008 0729

Analysis Batch: 720-32639
Prep Batch: 720-32583
Units: ug/Kg

Instrument ID: Agilent PCB 2
Lab File ID: N/A
Initial Weight/Volume: 30.25 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
PCB-1016	96	94	66 - 116	1	21		
PCB-1260	96	95	57 - 110	1	24		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	83	81	46 - 111
DCB Decachlorobiphenyl	91	90	34 - 106

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13275-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-32583

Method: 8082
Preparation: 3550B

MS Lab Sample ID:	720-13275-10	Analysis Batch: 720-32639	Instrument ID: Agilent PCB 2
Client Matrix:	Solid	Prep Batch: 720-32583	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 30.34 g
Date Analyzed:	03/05/2008 0019		Final Weight/Volume: 10 mL
Date Prepared:	03/04/2008 0729		Injection Volume:
			Column ID: PRIMARY
MSD Lab Sample ID:	720-13275-10	Analysis Batch: 720-32639	Instrument ID: Agilent PCB 2
Client Matrix:	Solid	Prep Batch: 720-32583	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 30.18 g
Date Analyzed:	03/05/2008 0038		Final Weight/Volume: 10 mL
Date Prepared:	03/04/2008 0729		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
PCB-1016	92	92	25 - 147	1	38		
PCB-1260	76	74	14 - 145	2	48		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	80	84	46 - 111
DCB Decachlorobiphenyl	75	77	34 - 106

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13275-1

Method Blank - Batch: 720-32585

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-32585/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/04/2008 1356
Date Prepared: 03/04/2008 0758

Analysis Batch: 720-32602
Prep Batch: 720-32585
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Cadmium	ND		0.50
Chromium	ND		1.0
Nickel	ND		1.0
Lead	ND		1.0
Zinc	ND		1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-32585

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-32585/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/04/2008 1359
Date Prepared: 03/04/2008 0758

Analysis Batch: 720-32602
Prep Batch: 720-32585
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-32585/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/04/2008 1403
Date Prepared: 03/04/2008 0758

Analysis Batch: 720-32602
Prep Batch: 720-32585
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cadmium	99	100	80 - 120	1	20		
Chromium	103	104	80 - 120	1	20		
Nickel	100	101	80 - 120	1	20		
Lead	98	98	80 - 120	1	20		
Zinc	97	97	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13275-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-32585

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	720-13276-A-1-A MS	Analysis Batch: 720-32602	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-32585	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.03 g
Date Analyzed:	03/04/2008 1407		Final Weight/Volume: 50 mL
Date Prepared:	03/04/2008 0758		

MSD Lab Sample ID:	720-13276-A-1-B MSD	Analysis Batch: 720-32602	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-32585	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.99 g
Date Analyzed:	03/04/2008 1411		Final Weight/Volume: 50 mL
Date Prepared:	03/04/2008 0758		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	78	80	75 - 125	6	20		
Chromium	82	93	75 - 125	12	20		
Nickel	77	83	75 - 125	8	20		
Lead	38	64	75 - 125	19	20	F	F
Zinc	37	74	75 - 125	21	20	F	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

CHAIN OF CUSTODY

Laboratory: Surinder/Dimple
Contact: Test America/Severn Trent Laboratory
Phone: 925-484-1919

Date: 03/03/08
Page: 1 of 1

115 Sansome Street., Suite 200
San Francisco, CA 94104
Phone: (415) 395-9974
Fax: (415) 395-9983

ERRG

109687

720-13275

Project Manager: Tyson Appel
Project Name: Presidio Bldg 1065 Remediation
Fax/Email results to: Tyson.Appel@ERRG.COM, James.Medley@ERRG.COM
Project No.: 27-092
Samplers: J. Medley

Turn around time: 5 day 10 day 48 hr **24 hr** Other:

Sample ID	Lab ID	Date/Time	Matrix	Preserv.	TPH-d, mo EPA 8015	TPH-g, BTEX EPA 8260	LUFT 5 metals	ASBESTOS	PCBs	Number of Containers
1065SC300A	1 (402)	3/2/2008 1215	Soil	None						1
1065SC300B	2 5	3/2/2008 1218	Soil	None						1
1065SC300C	3	3/2/2008 1220	Soil	None						1
1065SC300D	4	3/2/2008 1223	Soil	None						1
1065SC301A	6 (802)	3/2/2008 1235	Soil	None						1
1065SC301B	7 10	3/2/2008 1237	Soil	None						1
1065SC301C	8	3/2/2008 1240	Soil	None						1
1065SC301D	9	3/2/2008 1243	Soil	None						1
										8

RUSH

SPECIAL INSTRUCTIONS/COMMENTS
Please composite 4 samples (300A, 300B, 300C, and 300D) into 1 4-point composite sample.

Please composite 4 samples (301A, 301B, 301C, and 301D) into 1 4-point composite sample.

Call James with any questions
415-559-8136

Top 0.7

Relinquished by (Sampler): James H Medley 1140
(Signature) (Time): James H Medley 3/3/2008
(Printed Name) (Date): ERRG, Inc
(Company)
Received By: 1140
(Signature) (Time): Bryan Thomas 3/3/08
(Printed Name) (Date): TAL
(Company)

Relinquished by (Sampler): 1835
(Signature) (Time): Bryan Thomas 3/3/08
(Printed Name) (Date): TAL
(Company)
Received By: 1835
(Signature) (Time): T. Bullock 3/3/08
(Printed Name) (Date): TAL SF
(Company)

Relinquished by (Sampler)
(Signature) (Time)
(Printed Name) (Date)
(Company)
Received By
(Signature) (Time)
(Printed Name) (Date)
(Company)

I:\FORMS\CHAIN OF CUSTODY

Login Sample Receipt Check List

Client: ERRG

Job Number: 720-13275-1

Login Number: 13275
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	comp 4:1, also split to sub Asbestos

Forensic Analytical

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

TestAmerica San Francisco (fka STL)
Dimple Sharma

1220 Quarry Ln
Pleasanton, CA 94566-4756

Client ID: 2595
Report Number: B110063
Date Received: 03/04/08
Date Analyzed: 03/04/08
Date Printed: 03/04/08
First Reported: 03/04/08

FASI Job ID: 2595
Total Samples Submitted: 2
Total Samples Analyzed: 2

Job ID/Site: 27-092 - Presidio Bldg 1065 - PO#720-13275

Date(s) Collected: 03/02/2008

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
720-13275#5	10731708		ND				
Layer: Brown Soil							
Total Composite Values of Fibrous Components:		Asbestos (ND)					
720-13275#10	10731709		ND				
Layer: Brown Soil							
Total Composite Values of Fibrous Components:		Asbestos (ND)					

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

1777 Depot Road, Suite 709, Hayward, CA 94545 / Telephone: (510) 887-0828 (800) NVLFASI / Fax: (510) 887-4218

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 720-13275
Date 03-04-08 Page 1 of 1

SUB to: Forensic

Report To

Attn: D. Sharma
Company: TestAmerica SanFrancisco
Address:
Phone: Email:
Bill To: Sampled By:
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preservation	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions : ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4				Number of Containers
720-13275#5	3/2/08	1223	S	ice																			X	X	Asbestos	1
720-13275#10	3/2/08	12-B	S	ice																						1

RUSH

Project Info.

Project Name: Presidio Bldg 1065
Project#: 27-097
PO#:
Credit Card#:

Sample Receipt

# of Containers: 2
Head Space:
Temp:
Conforms to record:

TAT: 5 Day | 72h | 48h | 24h | Other: ASAP

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF

Special Instructions / Comments: ☐ Global ID

720-13275

See Terms and Conditions on reverse
*TestAmerica SF reports 8015M from C_6-C_{36} (industry norm). Default for 8015B is C_{10}-C_{28}

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1100	Signature: Time:	Signature: Time:
Printed Name: J-LOWES Date: 3/4/08	Printed Name: Date:	Printed Name: Date:
Company: TAL-SF	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1101a	Signature: Time:	Signature: Time:
Printed Name: Christen Angulo Date: 3/4/08	Printed Name: Date:	Printed Name: Date:
Company: FAL	Company:	Company:

Rev 08/04

MAR-04-2008 00:23 Page 30 of 30 98% TOTAL P.02
MAR-04-2008 12:23 P.02

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-13275-2

Job Description: Presidio Building 1065 Remediation

For:
ERRG
115 Sansome Street
Suite 200
San Francisco, CA 94104

Attention: Tyson Appel

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
03/07/2008

cc: Tyson Appel
Mr. James Medley

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-13275-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-13275-5	**1065SC300A,B,C,D**				
STLC Citrate					
Lead		13	0.50	mg/L	6010B
720-13275-10	**1065SC301A,B,C,D**				
STLC Citrate					
Lead		100	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-13275-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG

Job Number: 720-13275-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-13275-5	1065SC300A,B,C,D	Solid	03/02/2008 1215	03/03/2008 1835
720-13275-10	1065SC301A,B,C,D	Solid	03/02/2008 1235	03/03/2008 1835

Client: ERRG

Job Number: 720-13275-2

Client Sample ID: 1065SC300A,B,C,D

Lab Sample ID: 720-13275-5
Client Matrix: Solid

Date Sampled: 03/02/2008 1215
Date Received: 03/03/2008 1835

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:	6010B	Analysis Batch: 720-32747		Instrument ID:	Varian ICP
Preparation:	3005A	Prep Batch: 720-32758		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 720-32680		Initial Weight/Volume:	5 mL
Date Analyzed:	03/07/2008 1430			Final Weight/Volume:	50 mL
Date Prepared:	03/07/2008 1330				
Date Leached:	03/05/2008 1430				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		13		0.50

Client: ERRG

Job Number: 720-13275-2

Client Sample ID: 1065SC301A,B,C,D

Lab Sample ID: 720-13275-10
Client Matrix: Solid

Date Sampled: 03/02/2008 1235
Date Received: 03/03/2008 1835

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:	6010B	Analysis Batch: 720-32747		Instrument ID:	Varian ICP
Preparation:	3005A	Prep Batch: 720-32758		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 720-32680		Initial Weight/Volume:	5 mL
Date Analyzed:	03/07/2008 1433			Final Weight/Volume:	50 mL
Date Prepared:	03/07/2008 1330				
Date Leached:	03/05/2008 1430				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		100		0.50

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ERRG Job Number: 720-13275-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-32680					
MB 720-32680/1-B	Method Blank	C	Solid	CA WET Citrate	
720-13275-5	1065SC300A,B,C,D	C	Solid	CA WET Citrate	
720-13275-10	1065SC301A,B,C,D	C	Solid	CA WET Citrate	
Analysis Batch:720-32747					
MB 720-32680/1-B	Method Blank	C	Solid	6010B	720-32758
LCS 720-32758/2-A	Lab Control Spike	R	Water	6010B	720-32758
LCSD 720-32758/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-32758
720-13275-5	1065SC300A,B,C,D	C	Solid	6010B	720-32758
720-13275-5MS	Matrix Spike	C	Solid	6010B	720-32758
720-13275-5MSD	Matrix Spike Duplicate	C	Solid	6010B	720-32758
720-13275-10	1065SC301A,B,C,D	C	Solid	6010B	720-32758
Prep Batch: 720-32758					
LCS 720-32758/2-A	Lab Control Spike	R	Water	3005A	
LCSD 720-32758/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-32680/1-B	Method Blank	C	Solid	3005A	720-32680
720-13275-5MS	Matrix Spike	C	Solid	3005A	
720-13275-5MSD	Matrix Spike Duplicate	C	Solid	3005A	
720-13275-5	1065SC300A,B,C,D	C	Solid	3005A	720-32680
720-13275-10	1065SC301A,B,C,D	C	Solid	3005A	720-32680

Report Basis
C = STLC Citrate
R = Total Recoverable

Client: ERRG

Job Number: 720-13275-2

Method Blank - Batch: 720-32758

Method: 6010B
Preparation: 3005A
STLC Citrate

Lab Sample ID: MB 720-32680/1-B
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2008 1411
Date Prepared: 03/07/2008 1330
Date Leached: 03/05/2008 1430

Analysis Batch: 720-32747
Prep Batch: 720-32758
Units: mg/L

Leachate Batch: 720-32680

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-32758

Method: 6010B
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID: LCS 720-32758/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/07/2008 1414
Date Prepared: 03/07/2008 1330

Analysis Batch: 720-32747
Prep Batch: 720-32758
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-32758/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/07/2008 1418
Date Prepared: 03/07/2008 1330

Analysis Batch: 720-32747
Prep Batch: 720-32758
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	100	100	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13275-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-32758

Method: 6010B
Preparation: 3005A
STLC Citrate

MS Lab Sample ID:	720-13275-5	Analysis Batch:	720-32747	Instrument ID:	Varian ICP
Client Matrix:	Solid	Prep Batch:	720-32758	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	03/07/2008 1422			Final Weight/Volume:	50 mL
Date Prepared:	03/07/2008 1330				

MSD Lab Sample ID:	720-13275-5	Analysis Batch:	720-32747	Instrument ID:	Varian ICP
Client Matrix:	Solid	Prep Batch:	720-32758	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	03/07/2008 1426			Final Weight/Volume:	50 mL
Date Prepared:	03/07/2008 1330				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	90	91	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Login Sample Receipt Check List

Client: ERRG

Job Number: 720-13275-2

Login Number: 13275
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	comp 4:1, also split to sub Asbestos

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-13275-3

Job Description: Presidio Building 1065 Remediation

For:
ERRG
115 Sansome Street
Suite 200
San Francisco, CA 94104

Attention: Tyson Appel

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
03/11/2008

cc: Tyson Appel
Mr. James Medley

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

General Chemistry
Method(s) 1311: Ambient temperature of 18.1ºC was recorded during the 18 hour TCLP extraction. This temperature is outside the method defined range of 23 ± 2ºC.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-13275-3

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-13275-10	**1065SC301A,B,C,D**				
TCLP					
Lead		0.53	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-13275-3

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG

Job Number: 720-13275-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-13275-5	1065SC300A,B,C,D	Solid	03/02/2008 1215	03/03/2008 1835
720-13275-10	1065SC301A,B,C,D	Solid	03/02/2008 1235	03/03/2008 1835

Client: ERRG

Job Number: 720-13275-3

Client Sample ID: 1065SC300A,B,C,D

Lab Sample ID: 720-13275-5
Client Matrix: Solid

Date Sampled: 03/02/2008 1215
Date Received: 03/03/2008 1835

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 720-32866		Instrument ID:	Varian ICP
Preparation:	3010A	Prep Batch: 720-32842		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 720-32810		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2008 1226			Final Weight/Volume:	50 mL
Date Prepared:	03/11/2008 0829				
Date Leached:	03/10/2008 1347				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		ND		0.50

Client: ERRG

Job Number: 720-13275-3

Client Sample ID: 1065SC301A,B,C,D

Lab Sample ID: 720-13275-10
Client Matrix: Solid

Date Sampled: 03/02/2008 1235
Date Received: 03/03/2008 1835

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 720-32866		Instrument ID:	Varian ICP
Preparation:	3010A	Prep Batch: 720-32842		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 720-32810		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2008 1230			Final Weight/Volume:	50 mL
Date Prepared:	03/11/2008 0829				
Date Leached:	03/10/2008 1347				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		0.53		0.50

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ERRG Job Number: 720-13275-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-32810					
MB 720-32810/1-B	Method Blank	P	Solid	1311	
720-13275-5	1065SC300A,B,C,D	P	Solid	1311	
720-13275-10	1065SC301A,B,C,D	P	Solid	1311	
Prep Batch: 720-32842					
LCS 720-32842/2-A	Lab Control Spike	T	Water	3010A	
LCSD 720-32842/3-A	Lab Control Spike Duplicate	T	Water	3010A	
MB 720-32810/1-B	Method Blank	P	Solid	3010A	720-32810
720-13275-5MS	Matrix Spike	P	Solid	3010A	
720-13275-5MSD	Matrix Spike Duplicate	P	Solid	3010A	
720-13275-5	1065SC300A,B,C,D	P	Solid	3010A	720-32810
720-13275-10	1065SC301A,B,C,D	P	Solid	3010A	720-32810
Analysis Batch:720-32866					
MB 720-32810/1-B	Method Blank	P	Solid	6010B	720-32842
LCS 720-32842/2-A	Lab Control Spike	T	Water	6010B	720-32842
LCSD 720-32842/3-A	Lab Control Spike Duplicate	T	Water	6010B	720-32842
720-13275-5	1065SC300A,B,C,D	P	Solid	6010B	720-32842
720-13275-5MS	Matrix Spike	P	Solid	6010B	720-32842
720-13275-5MSD	Matrix Spike Duplicate	P	Solid	6010B	720-32842
720-13275-10	1065SC301A,B,C,D	P	Solid	6010B	720-32842

Report Basis
P = TCLP
T = Total

Client: ERRG

Job Number: 720-13275-3

Method Blank - Batch: 720-32842

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID: MB 720-32810/1-B
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/11/2008 1208
Date Prepared: 03/11/2008 0829
Date Leached: 03/10/2008 1347

Analysis Batch: 720-32866
Prep Batch: 720-32842
Units: mg/L

Leachate Batch: 720-32810

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-32842

Method: 6010B
Preparation: 3010A

LCS Lab Sample ID: LCS 720-32842/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2008 1211
Date Prepared: 03/11/2008 0829

Analysis Batch: 720-32866
Prep Batch: 720-32842
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-32842/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2008 1215
Date Prepared: 03/11/2008 0829

Analysis Batch: 720-32866
Prep Batch: 720-32842
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	98	98	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13275-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-32842

Method: 6010B
Preparation: 3010A
TCLP

MS Lab Sample ID:	720-13275-5	Analysis Batch:	720-32866	Instrument ID:	Varian ICP
Client Matrix:	Solid	Prep Batch:	720-32842	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2008 1219			Final Weight/Volume:	50 mL
Date Prepared:	03/11/2008 0829				

MSD Lab Sample ID:	720-13275-5	Analysis Batch:	720-32866	Instrument ID:	Varian ICP
Client Matrix:	Solid	Prep Batch:	720-32842	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2008 1222			Final Weight/Volume:	50 mL
Date Prepared:	03/11/2008 0829				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	98	97	75 - 125	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Login Sample Receipt Check List

Client: ERRG

Job Number: 720-13275-3

Login Number: 13275
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	comp 4:1, also split to sub Asbestos

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-13872-1

Job Description: Presidio Trust TOS

For:
ERRG
185 Mason Circle, Ste A
Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
04/16/2008

cc: Mr. James Medley

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 34250 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 34242 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-13872-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-13872-5	**1065SC302A,B,C,D**				
Diesel Range Organics [C10-C28]		9.0	1.0	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		54	50	mg/Kg	8015B
Chromium		42	0.95	mg/Kg	6010B
Nickel		30	0.95	mg/Kg	6010B
Lead		140	0.95	mg/Kg	6010B
Zinc		68	0.95	mg/Kg	6010B
720-13872-6	**PTSB-PLWS01**				
Diesel Range Organics [C10-C28]		96	2.0	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		480	99	mg/Kg	8015B
Chromium		29	1.0	mg/Kg	6010B
Nickel		27	1.0	mg/Kg	6010B
Lead		7.2	1.0	mg/Kg	6010B
Zinc		24	1.0	mg/Kg	6010B
720-13872-7	**PTSB-G-WS01**				
Diesel Range Organics [C10-C28]		32	2.0	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		230	99	mg/Kg	8015B
Chromium		36	0.97	mg/Kg	6010B
Nickel		40	0.97	mg/Kg	6010B
Lead		64	0.97	mg/Kg	6010B
Zinc		44	0.97	mg/Kg	6010B
720-13872-8	**PT-920-WS01**				
Chromium		27	0.99	mg/Kg	6010B
Nickel		20	0.99	mg/Kg	6010B
Lead		1.3	0.99	mg/Kg	6010B
Zinc		10	0.99	mg/Kg	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-13872-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B	
Purge and Trap for Solids	TAL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL SF		SW846 3050B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG

Job Number: 720-13872-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-13872-5	1065SC302A,B,C,D	Solid	04/14/2008 0730	04/14/2008 1920
720-13872-6	PTSB-PLWS01	Solid	04/14/2008 0800	04/14/2008 1920
720-13872-7	PTSB-G-WS01	Solid	04/14/2008 0810	04/14/2008 1920
720-13872-8	PT-920-WS01	Solid	04/14/2008 0830	04/14/2008 1920

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: 1065SC302A,B,C,D

Lab Sample ID: 720-13872-5
Client Matrix: Solid

Date Sampled: 04/14/2008 0730
Date Received: 04/14/2008 1920

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2008 1739
Date Prepared: 04/15/2008 0635

Analysis Batch: 720-34250
Prep Batch: 720-34251

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200804\04
Initial Weight/Volume: 5.15 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0049
Ethylbenzene		ND		0.0049
Toluene		ND		0.0049
Xylenes, Total		ND		0.0097
Gasoline Range Organics (GRO)-C5-C12		ND		0.24

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	96	70 - 130
1,2-Dichloroethane-d4 (Surr)	109	60 - 140

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: **PTSB-PLWS01**

Lab Sample ID: 720-13872-6
Client Matrix: Solid

Date Sampled: 04/14/2008 0800
Date Received: 04/14/2008 1920

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2008 1908
Date Prepared: 04/15/2008 0635

Analysis Batch: 720-34250
Prep Batch: 720-34251

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200804\04
Initial Weight/Volume: 5.29 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0047
Ethylbenzene		ND		0.0047
Toluene		ND		0.0047
Xylenes, Total		ND		0.0095
Gasoline Range Organics (GRO)-C5-C12		ND		0.24

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	94	70 - 130
1,2-Dichloroethane-d4 (Surr)	107	60 - 140

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: **PTSB-G-WS01**

Lab Sample ID: 720-13872-7
Client Matrix: Solid

Date Sampled: 04/14/2008 0810
Date Received: 04/14/2008 1920

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2008 1823
Date Prepared: 04/15/2008 0635

Analysis Batch: 720-34250
Prep Batch: 720-34251

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200804\04
Initial Weight/Volume: 5.33 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0047
Ethylbenzene		ND		0.0047
Toluene		ND		0.0047
Xylenes, Total		ND		0.0094
Gasoline Range Organics (GRO)-C5-C12		ND		0.23

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	96	70 - 130
1,2-Dichloroethane-d4 (Surr)	108	60 - 140

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: **PT-920-WS01**

Lab Sample ID: 720-13872-8
Client Matrix: Solid

Date Sampled: 04/14/2008 0830
Date Received: 04/14/2008 1920

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2008 1846
Date Prepared: 04/15/2008 0635

Analysis Batch: 720-34250
Prep Batch: 720-34251

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200804\04
Initial Weight/Volume: 5.28 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0047
Ethylbenzene		ND		0.0047
Toluene		ND		0.0047
Xylenes, Total		ND		0.0095
Gasoline Range Organics (GRO)-C5-C12		ND		0.24

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	94	60 - 140

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: 1065SC302A,B,C,D

Lab Sample ID: 720-13872-5
Client Matrix: Solid

Date Sampled: 04/14/2008 0730
Date Received: 04/14/2008 1920

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 04/15/2008 1830
Date Prepared: 04/15/2008 1144

Analysis Batch: 720-34242
Prep Batch: 720-34182

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.15 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		9.0		1.0
Motor Oil Range Organics [C24-C36]		54		50

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	89	40 - 119

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: **PTSB-PLWS01**

Lab Sample ID: 720-13872-6
Client Matrix: Solid

Date Sampled: 04/14/2008 0800
Date Received: 04/14/2008 1920

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 2.0
Date Analyzed: 04/15/2008 1650
Date Prepared: 04/15/2008 1144

Analysis Batch: 720-34242
Prep Batch: 720-34182

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		96		2.0
Motor Oil Range Organics [C24-C36]		480		99

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	74	40 - 119

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: **PTSB-G-WS01**

Lab Sample ID: 720-13872-7
Client Matrix: Solid

Date Sampled: 04/14/2008 0810
Date Received: 04/14/2008 1920

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 2.0
Date Analyzed: 04/15/2008 1715
Date Prepared: 04/15/2008 1144

Analysis Batch: 720-34242
Prep Batch: 720-34182

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.31 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		32		2.0
Motor Oil Range Organics [C24-C36]		230		99

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	80	40 - 119

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: **PT-920-WS01**

Lab Sample ID: 720-13872-8
Client Matrix: Solid

Date Sampled: 04/14/2008 0830
Date Received: 04/14/2008 1920

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 04/15/2008 1805
Date Prepared: 04/15/2008 1144

Analysis Batch: 720-34242
Prep Batch: 720-34182

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.17 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	80	40 - 119

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: 1065SC302A,B,C,D

Lab Sample ID: 720-13872-5
Client Matrix: Solid

Date Sampled: 04/14/2008 0730
Date Received: 04/14/2008 1920

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/16/2008 1040
Date Prepared: 04/15/2008 1415

Analysis Batch: 720-34252
Prep Batch: 720-34203

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Cadmium		ND		0.48
Chromium		42		0.95
Nickel		30		0.95
Lead		140		0.95
Zinc		68		0.95

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: PTSB-PLWS01

Lab Sample ID: 720-13872-6
Client Matrix: Solid

Date Sampled: 04/14/2008 0800
Date Received: 04/14/2008 1920

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/16/2008 1045
Date Prepared: 04/15/2008 1415

Analysis Batch: 720-34252
Prep Batch: 720-34203

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 0.99 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Cadmium		ND		0.51
Chromium		29		1.0
Nickel		27		1.0
Lead		7.2		1.0
Zinc		24		1.0

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: PTSB-G-WS01

Lab Sample ID: 720-13872-7
Client Matrix: Solid

Date Sampled: 04/14/2008 0810
Date Received: 04/14/2008 1920

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/16/2008 1048
Date Prepared: 04/15/2008 1415

Analysis Batch: 720-34252
Prep Batch: 720-34203

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Cadmium		ND		0.49
Chromium		36		0.97
Nickel		40		0.97
Lead		64		0.97
Zinc		44		0.97

Client: ERRG

Job Number: 720-13872-1

Client Sample ID: PT-920-WS01

Lab Sample ID: 720-13872-8
Client Matrix: Solid

Date Sampled: 04/14/2008 0830
Date Received: 04/14/2008 1920

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/16/2008 1052
Date Prepared: 04/15/2008 1415

Analysis Batch: 720-34252
Prep Batch: 720-34203

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Cadmium		ND		0.50
Chromium		27		0.99
Nickel		20		0.99
Lead		1.3		0.99
Zinc		10		0.99

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-13872-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
GC Semi VOA		
	F	MS or MSD exceeds the control limits

Client: ERRG

Job Number: 720-13872-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-34250					
LCS 720-34251/2-A	Lab Control Spike	T	Solid	8260B	720-34251
LCSD 720-34251/3-A	Lab Control Spike Duplicate	T	Solid	8260B	720-34251
MB 720-34251/1-A	Method Blank	T	Solid	8260B	720-34251
720-13865-A-1-H MS	Matrix Spike	T	Solid	8260B	720-34251
720-13865-A-1-I MSD	Matrix Spike Duplicate	T	Solid	8260B	720-34251
720-13872-5	1065SC302A,B,C,D	T	Solid	8260B	720-34251
720-13872-6	PTSB-PLWS01	T	Solid	8260B	720-34251
720-13872-7	PTSB-G-WS01	T	Solid	8260B	720-34251
720-13872-8	PT-920-WS01	T	Solid	8260B	720-34251
Prep Batch: 720-34251					
LCS 720-34251/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-34251/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-34251/1-A	Method Blank	T	Solid	5030B	
720-13865-A-1-H MS	Matrix Spike	T	Solid	5030B	
720-13865-A-1-I MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-13872-5	1065SC302A,B,C,D	T	Solid	5030B	
720-13872-6	PTSB-PLWS01	T	Solid	5030B	
720-13872-7	PTSB-G-WS01	T	Solid	5030B	
720-13872-8	PT-920-WS01	T	Solid	5030B	

Report Basis
T = Total

Client: ERRG Job Number: 720-13872-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-34182					
LCS 720-34182/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-34182/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-34182/1-A	Method Blank	T	Solid	3550B	
720-13872-5	1065SC302A,B,C,D	T	Solid	3550B	
720-13872-5MS	Matrix Spike	T	Solid	3550B	
720-13872-5MSD	Matrix Spike Duplicate	T	Solid	3550B	
720-13872-6	PTSB-PLWS01	T	Solid	3550B	
720-13872-7	PTSB-G-WS01	T	Solid	3550B	
720-13872-8	PT-920-WS01	T	Solid	3550B	
Analysis Batch:720-34242					
LCS 720-34182/2-A	Lab Control Spike	T	Solid	8015B	720-34182
LCSD 720-34182/3-A	Lab Control Spike Duplicate	T	Solid	8015B	720-34182
MB 720-34182/1-A	Method Blank	T	Solid	8015B	720-34182
720-13872-5	1065SC302A,B,C,D	T	Solid	8015B	720-34182
720-13872-5MS	Matrix Spike	T	Solid	8015B	720-34182
720-13872-5MSD	Matrix Spike Duplicate	T	Solid	8015B	720-34182
720-13872-6	PTSB-PLWS01	T	Solid	8015B	720-34182
720-13872-7	PTSB-G-WS01	T	Solid	8015B	720-34182
720-13872-8	PT-920-WS01	T	Solid	8015B	720-34182

Report Basis
T = Total

Client: ERRG

Job Number: 720-13872-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-34203					
LCS 720-34203/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-34203/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-34203/20-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 720-34203/1-A	Method Blank	T	Solid	3050B	
720-13867-A-1-B MS	Matrix Spike	T	Solid	3050B	
720-13867-A-1-C MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-13872-5	1065SC302A,B,C,D	T	Solid	3050B	
720-13872-6	PTSB-PLWS01	T	Solid	3050B	
720-13872-7	PTSB-G-WS01	T	Solid	3050B	
720-13872-8	PT-920-WS01	T	Solid	3050B	
Analysis Batch:720-34252					
LCS 720-34203/2-A	Lab Control Spike	T	Solid	6010B	720-34203
LCSD 720-34203/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-34203
LCSSRM 720-34203/20-A	LCS-Standard Reference Material	T	Solid	6010B	720-34203
MB 720-34203/1-A	Method Blank	T	Solid	6010B	720-34203
720-13867-A-1-B MS	Matrix Spike	T	Solid	6010B	720-34203
720-13867-A-1-C MSD	Matrix Spike Duplicate	T	Solid	6010B	720-34203
720-13872-5	1065SC302A,B,C,D	T	Solid	6010B	720-34203
720-13872-6	PTSB-PLWS01	T	Solid	6010B	720-34203
720-13872-7	PTSB-G-WS01	T	Solid	6010B	720-34203
720-13872-8	PT-920-WS01	T	Solid	6010B	720-34203

Report Basis
T = Total

Method Blank - Batch: 720-34251

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-34251/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/15/2008 1010
Date Prepared: 04/15/2008 0635

Analysis Batch: 720-34250
Prep Batch: 720-34251
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200804\04
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Ethylbenzene	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
Gasoline Range Organics (GRO)-C5-C12	ND		0.25

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	91	60 - 140

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-34251

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-34251/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/15/2008 1040
Date Prepared: 04/15/2008 0635

Analysis Batch: 720-34250
Prep Batch: 720-34251
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200804\04
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-34251/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/15/2008 1103
Date Prepared: 04/15/2008 0635

Analysis Batch: 720-34250
Prep Batch: 720-34251
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200804\041
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	94	98	70 - 123	5	20		
Toluene	97	98	81 - 128	2	20		
Gasoline Range Organics (GRO)-C5-C12	59	63	51 - 97	6	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	100	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	102	89	60 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-34251

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-13865-A-1-H MS	Analysis Batch: 720-34250	Instrument ID: Varian 3900A
Client Matrix:	Solid	Prep Batch: 720-34251	Lab File ID: c:\saturnws\data\200804\(
Dilution:	1.0		Initial Weight/Volume: 5.02 g
Date Analyzed:	04/15/2008 1219		Final Weight/Volume: 10 mL
Date Prepared:	04/15/2008 0635		

MSD Lab Sample ID:	720-13865-A-1-I MSD	Analysis Batch: 720-34250	Instrument ID: Varian 3900A
Client Matrix:	Solid	Prep Batch: 720-34251	Lab File ID: c:\saturnws\data\200804\04
Dilution:	1.0		Initial Weight/Volume: 5.00 g
Date Analyzed:	04/15/2008 1242		Final Weight/Volume: 10 mL
Date Prepared:	04/15/2008 0635		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	124	123	70 - 123	1	20	F	
Toluene	122	118	81 - 128	3	20		
Gasoline Range Organics (GRO)-C5-C12	91	101	51 - 97	11	20		F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	100	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	91	110	60 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Method Blank - Batch: 720-34182

Method: 8015B
Preparation: 3550B

Lab Sample ID: MB 720-34182/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/15/2008 1715
Date Prepared: 04/15/2008 1144

Analysis Batch: 720-34242
Prep Batch: 720-34182
Units: mg/Kg

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.37 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		49

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	85	40 - 119

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-34182

Method: 8015B
Preparation: 3550B

LCS Lab Sample ID: LCS 720-34182/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/15/2008 1602
Date Prepared: 04/15/2008 1144

Analysis Batch: 720-34242
Prep Batch: 720-34182
Units: mg/Kg

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.29 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-34182/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/15/2008 1650
Date Prepared: 04/15/2008 1144

Analysis Batch: 720-34242
Prep Batch: 720-34182
Units: mg/Kg

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.29 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	76	69	50 - 130	9	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	95	91	40 - 119

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-34182

Method: 8015B
Preparation: 3550B

MS Lab Sample ID:	720-13872-5	Analysis Batch: 720-34242	Instrument ID: Varian DRO4
Client Matrix:	Solid	Prep Batch: 720-34182	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 30.07 g
Date Analyzed:	04/15/2008 1740		Final Weight/Volume: 5 mL
Date Prepared:	04/15/2008 1144		Injection Volume:
			Column ID: PRIMARY
MSD Lab Sample ID:	720-13872-5	Analysis Batch: 720-34242	Instrument ID: Varian DRO4
Client Matrix:	Solid	Prep Batch: 720-34182	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 30.05 g
Date Analyzed:	04/15/2008 1805		Final Weight/Volume: 5 mL
Date Prepared:	04/15/2008 1144		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diesel Range Organics [C10-C28]	61	44	50 - 130	23	30		F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
p-Terphenyl	88	88	40 - 119

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13872-1

Method Blank - Batch: 720-34203

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-34203/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/16/2008 1017
Date Prepared: 04/15/2008 1415

Analysis Batch: 720-34252
Prep Batch: 720-34203
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Cadmium	ND		0.50
Chromium	ND		1.0
Nickel	ND		1.0
Lead	ND		1.0
Zinc	ND		1.0

LCS-Standard Reference Material - Batch: 720-34203

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCSSRM 720-34203/20-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/16/2008 1205
Date Prepared: 04/15/2008 1415

Analysis Batch: 720-34252
Prep Batch: 720-34203
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	42.2	38.2	90	67 - 118	
Chromium	246	219	89	67 - 121	
Nickel	96.8	84.5	87	65 - 117	
Lead	44.1	37.0	84	62 - 113	
Zinc	44.0	36.3	82	62 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13872-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-34203

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-34203/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/16/2008 1020
Date Prepared: 04/15/2008 1415

Analysis Batch: 720-34252
Prep Batch: 720-34203
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-34203/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/16/2008 1024
Date Prepared: 04/15/2008 1415

Analysis Batch: 720-34252
Prep Batch: 720-34203
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cadmium	92	93	80 - 120	0	20		
Chromium	94	94	80 - 120	0	20		
Nickel	92	92	80 - 120	0	20		
Lead	92	92	80 - 120	0	20		
Zinc	92	92	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-34203

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	720-13867-A-1-B MS	Analysis Batch: 720-34252	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-34203	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.00 g
Date Analyzed:	04/16/2008 1032		Final Weight/Volume: 50 mL
Date Prepared:	04/15/2008 1415		

MSD Lab Sample ID:	720-13867-A-1-C MSD	Analysis Batch: 720-34252	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-34203	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.99 g
Date Analyzed:	04/16/2008 1036		Final Weight/Volume: 50 mL
Date Prepared:	04/15/2008 1415		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	80	78	75 - 125	2	20		
Chromium	85	81	75 - 125	3	20		
Nickel	80	76	75 - 125	3	20		
Lead	79	77	75 - 125	3	20		
Zinc	79	76	75 - 125	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

CHAIN OF CUSTODY

Laboratory: Surinder/Dimple
Contact: Severn Trent Laboratory
Phone: 925-484-1919

Date: 4/14/08
Page: 1 of 1

251 Kearny St., Suite 502
San Francisco, CA 994108
Phone: (415) 395-9974
Fax: (415) 395-9983

ERRG

110289

720-13872

Project Manager: Tyson Appl
Project Name: Presidio Trust
Fax/Email results to: Tyson.Appl@ERRG.com
Project No. 0
Samplers: J. Medley

Turn around time: (5 day) 10 day 48 hr 24 hr Other:

Sample ID	Lab ID	Date/Time	Matrix	Preserv.	TPH-d, mo EPA 8015	TPHg, BTEX EPA 8260	Luft 5 metals	Number of Containers
1065SC302A	1	4/14/08 0730	Soil	None	X	X	X	1
1065SC302B	2	4/14/08 0732	Soil	None	X	X	X	1
1065SC302C	3	4/14/08 0735	Soil	None	X	X	X	1
1065SC302D	4	4/14/08 0738	Soil	None	X	X	X	1
PTSB-DUP-W-S01	5	4/14/08 0800	Soil	None	X	X	X	1
PTSB-6-W-S01	6	4/14/08 0810	Soil	None	X	X	X	1
PT-920-W-S01	7	4/14/08 0830	Soil	None	X	X	X	1

SPECIAL INSTRUCTIONS/COMMENTS

Call James (415) 559-8136 or Tyson with questions (925) 250-4056

Temp. 3.7°C

Relinquished by (Sampler)	Relinquished by (Sampler)	Relinquished by (Sampler)
Anthony Broderick	1920	
(Signature) (Time) 1500	(Signature) (Time) T. Lewis 4/14/08	(Signature) (Time)
(Printed Name) (Date) 4/14/08	(Printed Name) (Date)	(Printed Name) (Date)
(Company)	(Company)	(Company)
Received By 1510	Received By 19:20	Received By
(Signature) (Time) T. Lewis 4/14/09	(Signature) (Time) T. Burlock 4/14/08	(Signature) (Time)
(Printed Name) (Date) TAL	(Printed Name) (Date)	(Printed Name) (Date)
(Company)	(Company)	(Company)

I:\FORMS\CHAIN OF CUSTODY

Login Sample Receipt Check List

Client: ERRG

Job Number: 720-13872-1

Login Number: 13872
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	COMP 4:1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-13872-2

Job Description: Presidio Trust TOS

For:
ERRG
185 Mason Circle, Ste A
Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
04/29/2008

cc: Mr. James Medley

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-13872-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-13872-5	**1065SC302A,B,C,D**				
STLC Citrate					
Lead		10	0.50	mg/L	6010B
720-13872-7	**PTSB-G-WS01**				
STLC Citrate					
Lead		3.5	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-13872-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG

Job Number: 720-13872-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-13872-5	1065SC302A,B,C,D	Solid	04/14/2008 0730	04/14/2008 1920
720-13872-7	PTSB-G-WS01	Solid	04/14/2008 0810	04/14/2008 1920

Client: ERRG

Job Number: 720-13872-2

Client Sample ID: 1065SC302A,B,C,D

Lab Sample ID: 720-13872-5
Client Matrix: Solid

Date Sampled: 04/14/2008 0730
Date Received: 04/14/2008 1920

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:	6010B	Analysis Batch: 720-34566		Instrument ID:	Varian ICP
Preparation:	3005A	Prep Batch: 720-34550		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 720-34422		Initial Weight/Volume:	5 mL
Date Analyzed:	04/23/2008 1134			Final Weight/Volume:	50 mL
Date Prepared:	04/23/2008 0915				
Date Leached:	04/21/2008 730				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		10		0.50

Client: ERRG

Job Number: 720-13872-2

Client Sample ID: PTSB-G-WS01

Lab Sample ID: 720-13872-7
Client Matrix: Solid

Date Sampled: 04/14/2008 0810
Date Received: 04/14/2008 1920

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:	6010B	Analysis Batch: 720-34566		Instrument ID:	Varian ICP
Preparation:	3005A	Prep Batch: 720-34550		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 720-34422		Initial Weight/Volume:	5 mL
Date Analyzed:	04/23/2008 1138			Final Weight/Volume:	50 mL
Date Prepared:	04/23/2008 0915				
Date Leached:	04/21/2008 730				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		3.5		0.50

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ERRG

Job Number: 720-13872-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-34422					
MB 720-34422/1-B	Method Blank	C	Solid	CA WET Citrate	
720-13872-5	1065SC302A,B,C,D	C	Solid	CA WET Citrate	
720-13872-7	PTSB-G-WS01	C	Solid	CA WET Citrate	
720-13935-B-1-F MS	Matrix Spike	C	Solid	CA WET Citrate	
720-13935-B-1-G MSD	Matrix Spike Duplicate	C	Solid	CA WET Citrate	
Prep Batch: 720-34550					
LCS 720-34550/2-A	Lab Control Spike	R	Water	3005A	
LCSD 720-34550/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-34422/1-B	Method Blank	C	Solid	3005A	720-34422
720-13872-5	1065SC302A,B,C,D	C	Solid	3005A	720-34422
720-13872-7	PTSB-G-WS01	C	Solid	3005A	720-34422
720-13935-B-1-F MS	Matrix Spike	C	Solid	3005A	720-34422
720-13935-B-1-G MSD	Matrix Spike Duplicate	C	Solid	3005A	720-34422
Analysis Batch:720-34566					
MB 720-34422/1-B	Method Blank	C	Solid	6010B	720-34550
LCS 720-34550/2-A	Lab Control Spike	R	Water	6010B	720-34550
LCSD 720-34550/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-34550
720-13872-5	1065SC302A,B,C,D	C	Solid	6010B	720-34550
720-13872-7	PTSB-G-WS01	C	Solid	6010B	720-34550
720-13935-B-1-F MS	Matrix Spike	C	Solid	6010B	720-34550
720-13935-B-1-G MSD	Matrix Spike Duplicate	C	Solid	6010B	720-34550

Report Basis
C = STLC Citrate
R = Total Recoverable

Client: ERRG

Job Number: 720-13872-2

Method Blank - Batch: 720-34550

Method: 6010B
Preparation: 3005A
STLC Citrate

Lab Sample ID: MB 720-34422/1-B
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/23/2008 1042
Date Prepared: 04/23/2008 0915
Date Leached: 04/21/2008 0730

Analysis Batch: 720-34566
Prep Batch: 720-34550
Units: mg/L

Leachate Batch: 720-34422

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-34550

Method: 6010B
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID: LCS 720-34550/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/23/2008 1045
Date Prepared: 04/23/2008 0915

Analysis Batch: 720-34566
Prep Batch: 720-34550
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-34550/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/23/2008 1049
Date Prepared: 04/23/2008 0915

Analysis Batch: 720-34566
Prep Batch: 720-34550
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	89	89	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-13872-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-34550

Method: 6010B
Preparation: 3005A
STLC Citrate

MS Lab Sample ID:	720-13935-B-1-F MS	Analysis Batch: 720-34566	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-34550	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	04/23/2008 1057		Final Weight/Volume: 50 mL
Date Prepared:	04/23/2008 0915		
Date Leached:	04/21/2008 0730	Leachate Batch: 720-34422	
MSD Lab Sample ID:	720-13935-B-1-G MSD	Analysis Batch: 720-34566	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-34550	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	04/23/2008 1100		Final Weight/Volume: 50 mL
Date Prepared:	04/23/2008 0915		
Date Leached:	04/21/2008 0730	Leachate Batch: 720-34422	

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	87	86	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sharma, Dimple

From: Tyson Appel [tyson.appel@errg.com]
Sent: Friday, April 25, 2008 4:23 PM
To: Sharma, Dimple; James Medley
Subject: RE: Files from 720-13872-2 Presidio Trust TOS

Rush a TCLP for the 10 result.

Thanks
Ty

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]
Sent: Friday, April 25, 2008 4:21 PM
To: James Medley; Tyson Appel
Subject: Files from 720-13872-2 Presidio Trust TOS

DIMPLE SHARMA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484,1919
www.testamericainc.com

Reference: [025595]
Attachments: 1

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

720-13872-2

Sharma, Dimple

From: James Medley [james.medley@errg.com]
Sent: Friday, April 18, 2008 2:09 PM
To: Sharma, Dimple
Cc: Tyson Appel
Subject: RE: Files from 720-13872-1 Presidio Trust TOS

Please run STLC lead for samples 1065SC302 and PTSB-G-WS01, and extract these samples for TCLP.

Thanks,

James

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]
Sent: Wednesday, April 16, 2008 2:31 PM
To: James Medley; Tyson Appel
Subject: Files from 720-13872-1 Presidio Trust TOS

DIMPLE SHARMA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [025179]
Attachments: 1

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

Login Sample Receipt Check List

Client: ERRG

Job Number: 720-13872-2

Login Number: 13872
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	COMP 4:1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

29 April, 2008

Dimple Sharma
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566-4756

RE: Work Sharing Agreement
Work Order: MRD0867

Enclosed are the results of analyses for samples received by the laboratory on 04/25/08 19:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Douglas Clark
Project Manager

CA ELAP Certificate # 2682

The Chain(s) of Custody, 4 pages, are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

For Volatile Analysis a trip blank is required to be provided. If trip blank results are not included in the report, then either the trip blank was not submitted or requested to be analyzed.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

TestAmerica San Francisco	Project: Work Sharing Agreement	MRD0867
1220 Quarry Lane	Project Number: 720-13872	**Reported:**
Pleasanton CA, 94566-4756	Project Manager: Dimple Sharma	04/29/08 09:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
720-13872A-5-G	MRD0867-01	Other (W)	04/14/08 07:30	04/25/08 19:15
Blk TCLP	MRD0867-02	Other (W)	04/14/08 07:30	04/25/08 19:15

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

TestAmerica San Francisco	Project: Work Sharing Agreement	MRD0867
1220 Quarry Lane	Project Number: 720-13872	**Reported:**
Pleasanton CA, 94566-4756	Project Manager: Dimple Sharma	04/29/08 09:44

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
720-13872A-5-G (MRD0867-01) Other (W) Sampled: 04/14/08 07:30 Received: 04/25/08 19:15									
Lead	ND	5.0	mg/l	5	8D28022	04/28/08	04/28/08	EPA 6010B	
Blk TCLP (MRD0867-02) Other (W) Sampled: 04/14/08 07:30 Received: 04/25/08 19:15									
Lead	ND	5.0	mg/l	5	8D28022	04/28/08	04/28/08	EPA 6010B	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

TestAmerica San Francisco	Project: Work Sharing Agreement	MRD0867
1220 Quarry Lane	Project Number: 720-13872	**Reported:**
Pleasanton CA, 94566-4756	Project Manager: Dimple Sharma	04/29/08 09:44

TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8D28022 - EPA 3010A TCLP / EPA 6010B										
Blank (8D28022-BLK1)				Prepared & Analyzed: 04/28/08						
Lead	ND	1.0	mg/l							
Laboratory Control Sample (8D28022-BS1)				Prepared & Analyzed: 04/28/08						
Lead	0.648	1.0	mg/l	0.800		81	80-120			
Matrix Spike (8D28022-MS1)	**Source: MRD0717-01**			Prepared & Analyzed: 04/28/08						
Lead	0.668	5.0	mg/l	0.800	ND	84	80-120			
Matrix Spike Dup (8D28022-MSD1)	**Source: MRD0717-01**			Prepared & Analyzed: 04/28/08						
Lead	0.660	5.0	mg/l	0.800	ND	83	80-120	1	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

TestAmerica San Francisco	Project:	Work Sharing Agreement	MRD0867
1220 Quarry Lane	Project Number:	720-13872	**Reported:**
Pleasanton CA, 94566-4756	Project Manager:	Dimple Sharma	04/29/08 09:44

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

MRD0867

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 600-3002

Reference #: 720-13872
Date _____ Page _____ of _____

SUB TO MH

Report To

Attn: Dimple Sharma
Company: ~~EMC~~ TAL-S.F.
Address:
Phone: Email:
Bill To: Sampled By:
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Pres erv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Low Level Metals by EPA 200.8/6020 (ICP-MS): ___	☐ W.E.T (STLC) ☒ TCLP Lead	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions : ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4				Number of Containers
1065SC302A,B,C,D	4/14	7:30	TCLP Extract															X								1
BLK TCLP																										1

Project Info.

Project Name: Presidio Trust TOS
Project#: 720-13872
PO#:
Credit Card#:

Sample Receipt

# of Containers:
Head Space:
Temp:
Conforms to record:

TAT: 5 Day | 72h | 48h | 24h | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank
Fund EDF
Special Instructions / Comments: ☐ Global ID _____

1) Relinquished by:
Signature: [signature] Time: 1614
Printed Name: DIMPLE SHARMA Date: 4/25/08
Company: TA-S.F.

1) Received by:
Signature: [signature] Time: 16:40
Printed Name: T Bulloch Date: 4/25/08
Company: TAL-SF

2) Relinquished by:
Signature: [signature] Time: 1915
Printed Name: T. Bulloch Date: 4/29/08
Company: TAL-SF

2) Received by:
Signature: [signature] Time: 1915
Printed Name: Ed Martinez Date: 4/25/08
Company: TAMH

3) Relinquished by:
Signature: [signature] Time: 2030
Printed Name: Ed Martinez Date: 4-25-08
Company: TAMH

3) Received by:
Signature: [signature] Time: 1915
Printed Name: D Luna Date: 4/25/08
Company: TAMA

...s and Conditions on reverse
...a SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

Rev 06/04

MRJ0867

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 720-34504
Method Code: 720-1311T_M-720

Analyst: Thurman, Elvira

Batch Open: 4/22/2008 11:30:00AM
Batch End:

Toxicity Characteristic Leaching Procedure

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~720-34504/1 N/A	N/A				N/A	N/A	N/A		
2	720-13872-A-5 (6010B)	N/A	Solid			4/25/08	5_Days - E	2		
3	720-13872-A-7 (6010B)	N/A	Solid			4/25/08	5_Days - E	2		
4	720-13935-A-1 (6010B)	N/A	Solid			4/24/08	5_Days	2		
5	720-13938-A-1 (6010B)	N/A	Solid			4/18/08	3_Days - R	2		
6	720-13968-A-1 (6010B)	N/A	Solid			4/21/08	5_Days	2		

Page 21 of 23

Batch Notes

Batch Comment	
First End time	
Room Temperature during Rotation	21.4
Rotation Time for 10 Revolutions	
First Start time	11:30
Temperature	
Tumbler Rotations per Minute	30RPM

MW10822

This message was sent with high importance.
Attachments can contain viruses that may harm your computer. Attachments may not display correctly.

Julie Hoang

From: Douglas Clark **Sent:** Fri 4/25/2008 4:47 PM
To: Daniel Luna; Daniela G. Velasquez; Fariba Farshchian; Julie Hoang; Pedro Hufano
Cc:
Subject: FW: WSA for TCLP Lead Rush Coming in today
Attachments: WorkShare-01-01-08.xls(59KB)

This is a 0 day rush (due by the end of the day Monday).

From: Sharma, Dimple [mailto:Dimple.Sharma@testamericainc.com]
Sent: Friday, April 25, 2008 4:43 PM
To: Douglas Clark
Subject: WSA for TCLP Lead Rush Coming in today

Note New email address dimple.sharma@testamericainc.com

DIMPLE SHARMA
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1220 Quarry Lane
Pleasanton, CA 94566
Tel 925.484.1919 | Fax 925.600.3002
www.testamericainc.com www.stl-inc.com

* WSA included
* Sample from TA - SF (Ed) - please log in ASAP
TAT = 0 day

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

What's new in Ambient Air?

Let the #1 industry team of experts in Ambient Air help you find solutions today! http://www.testamericainc.com

- NEW! - ASTM publishes new guidance on Vapor Intrusion standards. Contact us for a copy or to learn how TestAmerica can assist you.
- Largest certified sampling media inventory, including more than 5,000 canisters and flow controllers.
- Access to the latest technical expertise in:
  - Vapor Intrusion
  - Soil Gas Survey
  - Perimeter Air Monitoring

Just a click away- contact us today for more information!

Ask your sales executive or project manager for more details.

Link to 'Ambient Air Brochure'

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: TA-SF
REC. BY (PRINT) D. Lane
WORKORDER: MK0867

DATE REC'D AT LAB: 4/25/08
TIME REC'D AT LAB: 1965
DATE LOGGED IN: 4/26/08

For Regulatory Purposes?
___ DRINKING WATER
___ WASTE WATER
✓ OTHER

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / (Absent) Intact / Broken*	01	MB-720-34504 tA	1 VOA	—	—	W	4/14/08	
		02	720-13872 15:4	1 VOA	—	—	W	↓	
2. Chain-of-Custody	(Present) / Absent*								
3. Traffic Reports or Packing List:	Present / (Absent)								
4. Airbill:	Airbill / Sticker Present / (Absent)								
5. Airbill #:	—								
6. Sample Labels:	(Present) / Absent								
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody								
8. Sample Condition:	(Intact) / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	**(Yes) / No***								
10. Sample received within hold time?	(Yes) / No*								
11. Adequate sample volume received?	(Yes) / No*								
12. Proper preservatives used?	(Yes) / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / (No)*								
14. Read Temp:	4.1								
Correction Factor:	-1.2								
Corrected Temp:	3.5								
Is corrected temp. 0-6°C?	(Yes) / No**								
**Exception (if any): Metals / Perchlorate DFF on Ice or Problem COC									

Page 23 of 23

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-14442-1

Job Description: Presidio Trust

For:
ERRG
185 Mason Circle, Ste A
Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
05/30/2008

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-14442-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-14442-5	**1065SC303A,B,C,D**				
STLC Citrate					
Lead		4.2	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-14442-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG

Job Number: 720-14442-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-14442-5	1065SC303A,B,C,D	Solid	05/22/2008 0900	05/22/2008 1645

Client: ERRG

Job Number: 720-14442-1

Client Sample ID: 1065SC303A,B,C,D

Lab Sample ID: 720-14442-5
Client Matrix: Solid

Date Sampled: 05/22/2008 0900
Date Received: 05/22/2008 1645

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:	6010B	Analysis Batch: 720-36179		Instrument ID:	Varian ICP
Preparation:	3005A	Prep Batch: 720-36176		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 720-36064		Initial Weight/Volume:	5 mL
Date Analyzed:	05/30/2008 0738			Final Weight/Volume:	50 mL
Date Prepared:	05/30/2008 0545				
Date Leached:	05/27/2008 1930				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		4.2		0.50

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ERRG Job Number: 720-14442-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-36064					
MB 720-36064/1-B	Method Blank	C	Solid	CA WET Citrate	
720-14093-A-7-I MS	Matrix Spike	C	Solid	CA WET Citrate	
720-14093-A-7-J MSD	Matrix Spike Duplicate	C	Solid	CA WET Citrate	
720-14442-5	1065SC303A,B,C,D	C	Solid	CA WET Citrate	
Prep Batch: 720-36176					
LCS 720-36176/2-A	Lab Control Spike	R	Water	3005A	
LCSD 720-36176/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-36064/1-B	Method Blank	C	Solid	3005A	720-36064
720-14093-A-7-I MS	Matrix Spike	C	Solid	3005A	720-36064
720-14093-A-7-J MSD	Matrix Spike Duplicate	C	Solid	3005A	720-36064
720-14442-5	1065SC303A,B,C,D	C	Solid	3005A	720-36064
Analysis Batch:720-36179					
MB 720-36064/1-B	Method Blank	C	Solid	6010B	720-36176
LCS 720-36176/2-A	Lab Control Spike	R	Water	6010B	720-36176
LCSD 720-36176/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-36176
720-14093-A-7-I MS	Matrix Spike	C	Solid	6010B	720-36176
720-14093-A-7-J MSD	Matrix Spike Duplicate	C	Solid	6010B	720-36176
720-14442-5	1065SC303A,B,C,D	C	Solid	6010B	720-36176

Report Basis
C = STLC Citrate
R = Total Recoverable

Client: ERRG

Job Number: 720-14442-1

Method Blank - Batch: 720-36176

Method: 6010B
Preparation: 3005A
STLC Citrate

Lab Sample ID: MB 720-36064/1-B
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/30/2008 0642
Date Prepared: 05/30/2008 0545
Date Leached: 05/27/2008 1930

Analysis Batch: 720-36179
Prep Batch: 720-36176
Units: mg/L

Leachate Batch: 720-36064

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-36176

Method: 6010B
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID: LCS 720-36176/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/30/2008 0646
Date Prepared: 05/30/2008 0545

Analysis Batch: 720-36179
Prep Batch: 720-36176
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-36176/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/30/2008 0650
Date Prepared: 05/30/2008 0545

Analysis Batch: 720-36179
Prep Batch: 720-36176
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	102	101	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-14442-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-36176

Method: 6010B
Preparation: 3005A
STLC Citrate

MS Lab Sample ID:	720-14093-A-7-I MS	Analysis Batch: 720-36179	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-36176	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	05/30/2008 0701		Final Weight/Volume: 50 mL
Date Prepared:	05/30/2008 0545		
Date Leached:	05/27/2008 1930	Leachate Batch: 720-36064	
MSD Lab Sample ID:	720-14093-A-7-J MSD	Analysis Batch: 720-36179	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-36176	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	05/30/2008 0705		Final Weight/Volume: 50 mL
Date Prepared:	05/30/2008 0545		
Date Leached:	05/27/2008 1930	Leachate Batch: 720-36064	

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	101	99	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

CHAIN OF CUSTODY

110858
TM 5/22/08

Laboratory: Test America
Contact: Surinder Sidhu/Dimple Sharma
Phone: 925-484-1919

Date: 05/22/08
Page: 1 of 1

115 Sansome St., Suite 200
San Francisco, CA 94104
Phone: (415) 395-9974
Fax: (415) 395-9983

ERRG

110859

T20-14442

Project Manager: Tyson Appel
Project Name: Presidio Trust Bldg 1063
Fax/Email results to: Tyson.appel@errg.com, james.medley@errg.com
Project No. 27-092
Samplers: J. Medley

Turn around time: **5 day** 10 day 48 hr 24 hr Other:

ANALYSES

Sample ID	Lab ID	Date/Time	Matrix	Preserv.	~~TPH-Diesel~~ STLC Lead	Number of Containers
1065SC303A	1	5/22/08 0900	Soil	None	X	1
1065SC303B	2	5/22/08 0904	Soil	None		1
1065SC303C	3	5/22/08 0908	Soil	None		1
1065SC303D	4	5/22/08 0913	Soil	None		1

1-5

8oz

Bag

SPECIAL INSTRUCTIONS/COMMENTS

Please call James with any questions
415-559-8136

Temp 5.5°C

Relinquished by (Sampler)	Relinquished by (Sampler)	Relinquished by (Sampler)
(Signature) (Time) 14:00	(Signature) (Time) 1645	(Signature) (Time)
CAITLIN GORMAN 5/22/08	T. Lewis 5/22/08	
(Printed Name) (Date)	(Printed Name) (Date) TAL	(Printed Name) (Date)
(Company)	(Company)	(Company)
Received By: 14:00	Received By: 1645	Received By:
(Signature) (Time) T. Lewis 5/22/08	(Signature) (Time) T Bullock 5/22/08	(Signature) (Time)
(Printed Name) (Date) TAL	(Printed Name) (Date) TAL	(Printed Name) (Date)
(Company)	(Company)	(Company)

4

Login Sample Receipt Check List

Client: ERRG

Job Number: 720-14442-1

Login Number: 14442
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	comp 4:1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-14442-2

Job Description: Presidio Trust

For:
ERRG
185 Mason Circle, Ste A
Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
06/05/2008

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-14442-2

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-14442-5	**1065SC303A,B,C,D**				
Gasoline Range Organics (GRO)-C5-C12		320	49	mg/Kg	8260B
Chromium		57	1.0	mg/Kg	6010B
Nickel		41	1.0	mg/Kg	6010B
Lead		68	1.0	mg/Kg	6010B
Zinc		80	1.0	mg/Kg	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-14442-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B	
Purge and Trap for Methanol Extractions	TAL SF		SW846 5030B
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL SF		SW846 3050B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG

Job Number: 720-14442-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-14442-5	1065SC303A,B,C,D	Solid	05/22/2008 0900	05/22/2008 1645

Client: ERRG

Job Number: 720-14442-2

Client Sample ID: **1065SC303A,B,C,D**

Lab Sample ID: 720-14442-5
Client Matrix: Solid

Date Sampled: 05/22/2008 0900
Date Received: 05/22/2008 1645

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B-Medium
Dilution: 200
Date Analyzed: 06/04/2008 1629
Date Prepared: 06/04/2008 1439

Analysis Batch: 720-36364
Prep Batch: 720-36363

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200806\06
Initial Weight/Volume: 5.13 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.97
Ethylbenzene		ND		0.97
Toluene		ND		0.97
Xylenes, Total		ND		1.9
Gasoline Range Organics (GRO)-C5-C12		320		49

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	94	50 - 130
1,2-Dichloroethane-d4 (Surr)	94	60 - 140

Client: ERRG

Job Number: 720-14442-2

Client Sample ID: 1065SC303A,B,C,D

Lab Sample ID: 720-14442-5
Client Matrix: Solid

Date Sampled: 05/22/2008 0900
Date Received: 05/22/2008 1645

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 06/05/2008 1152
Date Prepared: 06/04/2008 1757

Analysis Batch: 720-36410
Prep Batch: 720-36378

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: .97 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Cadmium		ND		0.52
Chromium		57		1.0
Nickel		41		1.0
Lead		68		1.0
Zinc		80		1.0

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ERRG Job Number: 720-14442-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-36363					
LCS 720-36363/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-36363/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-36363/1-A	Method Blank	T	Solid	5030B	
720-14442-5	1065SC303A,B,C,D	T	Solid	5030B	
Analysis Batch:720-36364					
LCS 720-36363/2-A	Lab Control Spike	T	Solid	8260B	720-36363
LCSD 720-36363/3-A	Lab Control Spike Duplicate	T	Solid	8260B	720-36363
MB 720-36363/1-A	Method Blank	T	Solid	8260B	720-36363
720-14442-5	1065SC303A,B,C,D	T	Solid	8260B	720-36363

Report Basis
T = Total

Metals					
Prep Batch: 720-36378					
LCS 720-36378/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-36378/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
MB 720-36378/1-A	Method Blank	T	Solid	3050B	
720-14442-5	1065SC303A,B,C,D	T	Solid	3050B	
720-14555-A-12-B MS	Matrix Spike	T	Solid	3050B	
720-14555-A-12-C MSD	Matrix Spike Duplicate	T	Solid	3050B	
Analysis Batch:720-36410					
LCS 720-36378/2-A	Lab Control Spike	T	Solid	6010B	720-36378
LCSD 720-36378/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-36378
MB 720-36378/1-A	Method Blank	T	Solid	6010B	720-36378
720-14442-5	1065SC303A,B,C,D	T	Solid	6010B	720-36378
720-14555-A-12-B MS	Matrix Spike	T	Solid	6010B	720-36378
720-14555-A-12-C MSD	Matrix Spike Duplicate	T	Solid	6010B	720-36378

Report Basis
T = Total

Client: ERRG

Job Number: 720-14442-2

Method Blank - Batch: 720-36363

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-36363/1-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 06/04/2008 1304
Date Prepared: 06/04/2008 1439

Analysis Batch: 720-36364
Prep Batch: 720-36363
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200806\06
Initial Weight/Volume: 5.0 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		1.0
Ethylbenzene	ND		1.0
Toluene	ND		1.0
Xylenes, Total	ND		2.0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	98	50 - 130
1,2-Dichloroethane-d4 (Surr)	93	60 - 140

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-36363

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-36363/2-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 06/04/2008 1327
Date Prepared: 06/04/2008 1439

Analysis Batch: 720-36364
Prep Batch: 720-36363
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200806\06
Initial Weight/Volume: 5.0 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-36363/3-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 06/04/2008 1350
Date Prepared: 06/04/2008 1439

Analysis Batch: 720-36364
Prep Batch: 720-36363
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200806\060
Initial Weight/Volume: 5.0 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	102	107	69 - 129	5	20		
Toluene	110	112	70 - 130	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	101	103	50 - 130
1,2-Dichloroethane-d4 (Surr)	90	91	60 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-14442-2

Method Blank - Batch: 720-36378

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-36378/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/05/2008 1052
Date Prepared: 06/04/2008 1757

Analysis Batch: 720-36410
Prep Batch: 720-36378
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Cadmium	ND		0.50
Chromium	ND		1.0
Nickel	ND		1.0
Lead	ND		1.0
Zinc	ND		1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-36378

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-36378/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/05/2008 1055
Date Prepared: 06/04/2008 1757

Analysis Batch: 720-36410
Prep Batch: 720-36378
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-36378/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/05/2008 1059
Date Prepared: 06/04/2008 1757

Analysis Batch: 720-36410
Prep Batch: 720-36378
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cadmium	103	100	80 - 120	3	20		
Chromium	104	100	80 - 120	3	20		
Nickel	102	99	80 - 120	3	20		
Lead	105	102	80 - 120	3	20		
Zinc	103	99	80 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG

Job Number: 720-14442-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-36378

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	720-14555-A-12-B MS	Analysis Batch: 720-36410	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-36378	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: .97 g
Date Analyzed:	06/05/2008 1226		Final Weight/Volume: 50 mL
Date Prepared:	06/04/2008 1757		

MSD Lab Sample ID:	720-14555-A-12-C MSD	Analysis Batch: 720-36410	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-36378	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: .97 g
Date Analyzed:	06/05/2008 1230		Final Weight/Volume: 50 mL
Date Prepared:	06/04/2008 1757		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	94	92	75 - 125	2	20		
Chromium	95	93	75 - 125	2	20		
Nickel	94	92	75 - 125	2	20		
Lead	97	95	75 - 125	2	20		
Zinc	94	91	75 - 125	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

720-14442-2

Sharma, Dimple

From: James Medley [james.medley@errg.com]
Sent: Monday, June 02, 2008 10:03 AM
To: Sharma, Dimple
Cc: Tyson Appel
Subject: RE: Files from 720-14442-1 Presidio Trust

Can you now run TPH-gasoline range with BTEX and LUFT 5 metals on this sample?

Thanks,
James

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]
Sent: Friday, May 30, 2008 2:31 PM
To: James Medley; Tyson Appel
Subject: Files from 720-14442-1 Presidio Trust

DIMPLE SHARMA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [027092]
Attachments: 1

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

Login Sample Receipt Check List

Client: ERRG

Job Number: 720-14442-2

Login Number: 14442
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	comp 4:1

APPENDIX H

WASTE PROFILES, DISPOSAL RECEIPTS, AND MANIFESTS

APPENDIX H
WASTE PROFILES, RECEIPTS, TONNAGE REPORTS, AND MANIFESTS

CONTENTS

Signed Waste Profile Sheet
Concrete and Asphalt Recycling Receipts
Tonnage Reports
Building 1063 Manifests – 003519400 through 003519421 and 003918505 through 003918524 for Non-RCRA Hazardous Waste Disposed of at the Chemical Waste Management Landfill in Kettleman City, California

Reviewed by __SRG__

Generator's Nonhazardous Waste Profile Sheet

105024CA

D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ☐ Yes ☑ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ☐ Yes ☑ No
   - ☐ Delisted Hazardous Waste
   - ☐ Excluded Wastes Under 40 CFR 261.4
   - ☐ Treated Hazardous Waste Debris
   - ☐ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ☑ Yes ☐ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☑ No
   a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
   b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ☐ Yes ☐ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ☐ Yes ☑ No
   a. If yes, is disposal regulated under TSCA? ☐ Yes ☐ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ☐ Yes ☑ No
7. Does the waste contain asbestos? ☐ Yes ☐ No If Yes, ☐ Friable ☐ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☑ No
   If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☐ No

E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
   - ☑ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: Test America, 1065SC300A,B,C,D 1065SC301A,B,C,D # Pages: 56
   - ☐ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   - ☐ Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: _____
   - ☐ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
   - ☐ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: Ryan Seelbach **Title:** PROJECT MANAGER

Company Name: PRESIDIO TRUST **Name (Print):** RYAN SEELBACH

Date: 3/18/08

FOR WM USE ONLY

Management Method: ☐ Landfill ☐ Bioremediation ☐ Non-hazardous solidification ☐ Other: _____

Approval Decision: ☐ Approved ☐ Not Approved

Waste Approval Expiration Date: _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

_____

_____

- ☐ Shall not contain free liquid
- ☐ Shipment must be scheduled into disposal facility
- ☐ Approval Number must accompany each shipment
- ☐ Waste Manifest must accompany load

WM Authorization Name / Title: _____ **Date:** _____

State Authorization (if Required): _____ **Date:** _____

©2007 Waste Management, Inc.

Generator's Nonhazardous Waste Profile Sheet

WASTE MANAGEMENT

Requested Disposal Facility: Kettleman Hills (Hazardous Waste Profile Number: 105024CA

☐ Renewal for Profile Number: _____ Waste Approval Expiration Date: _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: The Presidio Trust
2. Site Address: Building 1063
3. City/ZIP: San Francisco, 94129
4. State: CA
5. County: San Francisco
6. Contact Name/Title: Ryan seelbach
7. Email Address: rseelbach@presidiotrust.gov
8. Phone: 415 561 5082 9. FAX: 415 561 2132
10. NAICS Code: 712190
11. Generator USEPA ID #: CAR000386179
12. State ID# (if applicable): _____

B. Customer Information ☐ same as above

P. O. Number: 27-092

1. Customer Name: Engineering/Remediation Resouces Group
2. Billing Address: 185 Mason Circle
3. City, State and ZIP: Concord , CA, 94520
4. Contact Name: Tyson Appel
5. Contact Email: tyson.appel@errg.com
6. Phone: 925 250 4056 FAX: 925 969 0751
7. Transporter Name: _____
8. Transporter ID # (if appl.): _____
9. Transporter Address: _____
10. City, State and ZIP: _____

C. Waste Stream Information

1. DESCRIPTION

a. Common Waste Name: Soil with Lead
State Waste Code(s): 611, 181

b. Describe Process Generating Waste or Source of Contamination:
Removal of contaminated soil

c. Typical Color(s): brown, green, black

d. Strong Odor? ☐ Yes ☑ No Describe: _____

e. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Powder ☐ Semi-Solid or Sludge ☐ Other: _____

f. Layers? ☐ Single layer ☐ Multi- layer ☑ NA

g. Water Reactive? ☐ Yes ☑ No If Yes, Describe: _____

h. Free Liquid Range (%): _____ to _____ ☑ NA(solid)

i. pH Range: ☐ ≤2 ☐ 2.1-12.4 ☐ ≥12.5 ☑ NA(solid) ☐ Actual: _____

j. Liquid Flash Point: ☐ < 140°F ☐ ≥ 140°F ☑ NA(solid) ☐ Actual: _____

k. Flammable Solid: ☐ Yes ☑ No

l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): ☑ (See Attached)

Constituents *(Total Composition Must be > 100%)*	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. Soil	95	%	100	%
2. Wood	0	%	1	%
3. scrap metal	0	%	1	%
4. Plastic	0	%	1	%
5. lead	0	ppm	100	ppm
6.				

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

a. ☑ Event ☐ Base/Ongoing (Check One)

b. Estimated Annual Quantity: 1000 ☐ Tons ☑ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify): _____

c. Shipping Frequency: 2 days Units per ☐ Month ☐ Quarter ☐ Year ☑ One Time ☐ Other

d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☐ Yes ☑ No

e. USDOT Shipping Description (if applicable): _____

3. SAFETY REQUIREMENTS (Handling, PPE, etc.): Level D

©2007 Waste Management, Inc.

321993

BRISBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 10-24 20 07

CUSTOMER ERRG

ADDRESS Presidio

CITY SF STATE ZIP

JOB No. 27092 P.O. No.

LICENSE No. 7K13661

CARRIER

☒ BOB TAIL ☐ 10 WHEELER
☐ SEMI-TRL ☐ TR & TRL
☐ DOUBLES ☐ MISC.

$140

CHARGE

PAID CASH

W/W-PE

☐ ASPHALT ☒ CONCRETE ☐ MIXED

DRIVER J. ALBERTO MELGOZA
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

322027

BRISBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 10-24 20 07

CUSTOMER ERRG

ADDRESS Presidio

CITY SF STATE ZIP

JOB No. 27092 P.O. No.

LICENSE No. 7M13661

CARRIER

☑ BOB TAIL ☐ 10 WHEELER
☐ SEMI-TRL ☐ TR & TRL
☐ DOUBLES ☐ MISC.

$70

CHARGE

PAID CASH

☒ ASPHALT ☑ CONCRETE ☐ MIXED

DRIVER J. ALBERTO MELGOZA
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

322060

BRISBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 10/24 20 07

CUSTOMER ERG

ADDRESS [illegible]

CITY SF STATE ____ ZIP ____

JOB No. 27092 P.O. No. ____

LICENSE No. 7N13661

CARRIER ____

- [X] BOB TAIL
- [ ] 10 WHEELER
- [ ] SEMI-TRL
- [ ] TR & TRL
- [ ] DOUBLES
- [ ] MISC.

CHARGE $70

PAID CASH ____

- [X] ASPHALT
- [ ] CONCRETE
- [ ] MIXED

DRIVER J. MIRETA. INC/GOZA
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

322198

BRISBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 10.26 20 07

CUSTOMER ERG

ADDRESS 1065 Morgan Ave

CITY SF STATE ____ ZIP ____

JOB No. 27092 P.O. No. ____

LICENSE No. 7K13661

CARRIER ____

- [X] BOB TAIL
- [ ] 10 WHEELER
- [ ] SEMI-TRL
- [ ] TR & TRL
- [ ] DOUBLES
- [ ] MISC.

CHARGE $70

PAID CASH ____

- [X] ASPHALT
- [ ] CONCRETE
- [ ] MIXED

DRIVER J. MIRETA. INC/GOZA
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

323224

BRISBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 11-8 20 07

CUSTOMER ZPRG

ADDRESS Presidio

CITY SF STATE ZIP

JOB No. 27092 P.O. No.

LICENSE No. 7 & T7661

CARRIER

- [x] BOB TAIL
- [ ] 10 WHEELER
- [ ] SEMI-TRL
- [ ] TR & TRL
- [ ] DOUBLES
- [ ] MISC.

CHARGE $140

PAID CASH

REBAR wire

- [ ] ASPHALT
- [x] CONCRETE
- [ ] MIXED

DRIVER J. MBATA M. Mata
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

324133

BRISBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 11-26 20__

CUSTOMER F R S

ADDRESS [illegible]

CITY SF STATE____ ZIP____

JOB No. 27125 P.O. No. ____

LICENSE No. [illegible]

CARRIER [illegible]

- ☐ BOB TAIL
- ☐ SEMI-TRL
- ☐ DOUBLES
- ☐ 10 WHEELER
- ☐ TR & TRL
- ☐ MISC.

CHARGE $420

PAID CASH ____

W/ REBAR & DEBRIS

- ☐ ASPHALT
- ☒ CONCRETE
- ☐ MIXED

DRIVER [illegible]
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

324180

BRISBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 11-26 20__

CUSTOMER F R S

ADDRESS [illegible]

CITY SF STATE____ ZIP____

JOB No. 27125 P.O. No. ____

LICENSE No. ____

CARRIER [illegible]

- ☐ BOB TAIL
- ☒ SEMI-TRL
- ☐ DOUBLES
- ☐ 10 WHEELER
- ☐ TR & TRL
- ☐ MISC.

CHARGE $420.00

PAID CASH ____

EXS REBAR / DEBRIS

- ☐ ASPHALT
- ☒ CONCRETE
- ☐ MIXED

DRIVER [illegible]
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

324170

BRISBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 11-26 20 07

CUSTOMER E P R S

ADDRESS 2.1.

CITY SF STATE ____ ZIP ____

JOB No. 27-125 P.O. No. ____

LICENSE No. CB-34738

CARRIER T-12

- [ ] BOB TAIL
- [ ] 10 WHEELER
- [x] SEMI-TRL
- [ ] TR & TRL
- [ ] DOUBLES
- [ ] MISC.

CHARGE $420

PAID CASH ____

EXS REBAR

- [ ] ASPHALT
- [x] CONCRETE
- [ ] MIXED

DRIVER ____
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

329144

SBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 3-15 20 12

CUSTOMER ZPRG

ADDRESS Fersid.

CITY SF STATE ZIP

JOB No. P.O. No.

LICENSE No. 7K13661.

CARRIER

- [x] BOB TAIL
- [ ] 10 WHEELER
- [ ] SEMI-TRL
- [ ] TR & TRL
- [ ] DOUBLES
- [ ] MISC.

CHARGE $70

PAID CASH

- [ ] ASPHALT
- [x] CONCRETE
- [ ] MIXED

DRIVER J. Ruiz. McGuff
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

333403

BRISBANE RECYCLING CO., INC.

P.O. Box 687, Brisbane, CA 94005
Plant Location: 5 Beatty Rd., Brisbane, CA 94005 • (415) 467-5050
Office Location: 150 Executive Park, Suite 4250, San Francisco, CA 94134
(415) 468-8822

DATE 4-16 2009

CUSTOMER ERRG.

ADDRESS Parsidio.

CITY SF. STATE ZIP

JOB No. 27092 P.O. No.

LICENSE No. 7K13661

CARRIER ERRG

- [x] BOB TAIL
- [ ] 10 WHEELER
- [ ] SEMI-TRL
- [ ] TR & TRL
- [ ] DOUBLES
- [ ] MISC.

$70

CHARGE

PAID CASH

- [ ] ASPHALT
- [x] CONCRETE
- [ ] MIXED AB

DRIVER Pablo. Mylega
Signature

POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Please allow all heavy equipment the right away and obey all posted traffic signs.
Speed Limit 15 MPH.

CUSTOMER COPY

Arr.Date	Manifest	Profile	RCV Gross Weight	RCV Tare Weight	RCV Net Weight	Net Tons	Gen. Name
4/30/2008	003519399JJK	105024CA	77960	33140	44820	22.41	THE PRESIDIO TRUST
	003519429JJK	105024CA	80540	31900	48640	24.32	THE PRESIDIO TRUST
	003519430JJK	105024CA	78940	32060	46880	23.44	THE PRESIDIO TRUST
	003519431JJK	105024CA	79900	31060	48840	24.42	THE PRESIDIO TRUST
	003519432JJK	105024CA	79200	32100	47100	23.55	THE PRESIDIO TRUST
	003519433JJK	105024CA	79020	32140	46880	23.44	THE PRESIDIO TRUST
	003519434JJK	105024CA	77720	32100	45620	22.81	THE PRESIDIO TRUST
	003519435JJK	105024CA	79320	30440	48880	24.44	THE PRESIDIO TRUST
	003519436JJK	105024CA	79620	31380	48240	24.12	THE PRESIDIO TRUST
	003519437JJK	105024CA	80660	32960	47700	23.85	THE PRESIDIO TRUST
	003519438JJK	105024CA	79160	30780	48380	24.19	THE PRESIDIO TRUST
	003519439JJK	105024CA	78200	30340	47860	23.93	THE PRESIDIO TRUST
	003519440JJK	105024CA	77960	31440	46520	23.26	THE PRESIDIO TRUST
	003519441JJK	105024CA	79020	30340	48680	24.34	THE PRESIDIO TRUST
	003519442JJK	105024CA	76960	30240	46720	23.36	THE PRESIDIO TRUST
	003519443JJK	105024CA	80080	33200	46880	23.44	THE PRESIDIO TRUST
	003519444JJK	105024CA	78720	31080	47640	23.82	THE PRESIDIO TRUST
	003519445JJK	105024CA	79000	28300	50700	25.35	THE PRESIDIO TRUST
	003519446JJK	105024CA	79580	32380	47200	23.6	THE PRESIDIO TRUST
	003519447JJK	105024CA	79260	29420	49840	24.92	THE PRESIDIO TRUST
	003519448JJK	105024CA	79160	30600	48560	24.28	THE PRESIDIO TRUST
	003519449JJK	105024CA	77040	31940	45100	22.55	THE PRESIDIO TRUST
	003519450JJK	105024CA	77600	31120	46480	23.24	THE PRESIDIO TRUST
	003519451JJK	105024CA	79100	30060	49040	24.52	THE PRESIDIO TRUST
	003519452JJK	105024CA	77120	31020	46100	23.05	THE PRESIDIO TRUST
	003519453JJK	105024CA	78940	32000	46940	23.47	THE PRESIDIO TRUST
	003519457JJK	105024CA	82880	32060	50820	25.41	THE PRESIDIO TRUST
	003519458JJK	105024CA	80320	32040	48280	24.14	THE PRESIDIO TRUST
	003519459JJK	105024CA	84200	30480	53720	26.86	THE PRESIDIO TRUST
	003519462JJK	105024CA	79500	30300	49200	24.6	THE PRESIDIO TRUST
	003519465JJK	105024CA	80360	30120	50240	25.12	THE PRESIDIO TRUST
	003918502JJK	105024CA	80280	31820	48460	24.23	THE PRESIDIO TRUST
	003918503JJK	105024CA	81100	29160	51940	25.97	THE PRESIDIO TRUST
TOTAL					**1588900**	**794.45**	
COUNT	**33**						

Arr.Date	Manifest	Profile	RCV Gross Weight	RCV Tare Weight	RCV Net Weight	Net Tons	Gen. Name
5/1/2008	003519400JJK	105024CA	78480	32900	45580	22.79	THE PRESIDIO TRUST
	003519401JJK	105024CA	78920	32660	46260	23.13	THE PRESIDIO TRUST
	003519402JJK	105024CA	78120	31100	47020	23.51	THE PRESIDIO TRUST
	003519403JJK	105024CA	78780	30880	47900	23.95	THE PRESIDIO TRUST
	003519404JJK	105024CA	78760	32960	45800	22.9	THE PRESIDIO TRUST
	003519405JJK	105024CA	78580	31220	47360	23.68	THE PRESIDIO TRUST
	003519406JJK	105024CA	77360	31040	46320	23.16	THE PRESIDIO TRUST
	003519407JJK	105024CA	78540	33080	45460	22.73	THE PRESIDIO TRUST
	003519408JJK	105024CA	77560	30780	46780	23.39	THE PRESIDIO TRUST
	003519409JJK	105024CA	77000	30580	46420	23.21	THE PRESIDIO TRUST
	003519410JJK	105024CA	78780	31420	47360	23.68	THE PRESIDIO TRUST
	003519412JJK	105024CA	77280	29940	47340	23.67	THE PRESIDIO TRUST
	003519413JJK	105024CA	78600	31540	47060	23.53	THE PRESIDIO TRUST
	003519414JJK	105024CA	80280	30820	49460	24.73	THE PRESIDIO TRUST
	003519415JJK	105024CA	79740	30780	48960	24.48	THE PRESIDIO TRUST
	003519416JJK	105024CA	79440	31040	48400	24.2	THE PRESIDIO TRUST
	003519417JJK	105024CA	77120	31680	45440	22.72	THE PRESIDIO TRUST
	003519418JJK	105024CA	78380	29080	49300	24.65	THE PRESIDIO TRUST
	003519419JJK	105024CA	78540	30740	47800	23.9	THE PRESIDIO TRUST
	003519420JJK	105024CA	78240	30540	47700	23.85	THE PRESIDIO TRUST
	003519421JJK	105024CA	51420	30440	20980	10.49	THE PRESIDIO TRUST
	003519463JJK	105024CA	79660	32320	47340	23.67	THE PRESIDIO TRUST
	003519464JJK	105024CA	79160	32480	46680	23.34	THE PRESIDIO TRUST
	003918504JJK	105024CA	78140	32640	45500	22.75	THE PRESIDIO TRUST
	003918505JJK	105024CA	77180	33020	44160	22.08	THE PRESIDIO TRUST
	003918506JJK	105024CA	73860	32620	41240	20.62	THE PRESIDIO TRUST
	003918507JJK	105024CA	77560	32580	44980	22.49	THE PRESIDIO TRUST
	003918508JJK	105024CA	79160	31960	47200	23.6	THE PRESIDIO TRUST
	003918509JJK	105024CA	77300	31800	45500	22.75	THE PRESIDIO TRUST
	003918510JJK	105024CA	79100	32140	46960	23.48	THE PRESIDIO TRUST
	003918511JJK	105024CA	79720	31240	48480	24.24	THE PRESIDIO TRUST
	003918512JJK	105024CA	79640	32560	47080	23.54	THE PRESIDIO TRUST
	003918513JJK	105024CA	78680	32380	46300	23.15	THE PRESIDIO TRUST
	003918514JJK	105024CA	78360	31840	46520	23.26	THE PRESIDIO TRUST
	003918515JJK	105024CA	78580	31740	46840	23.42	THE PRESIDIO TRUST
	003918516JJK	105024CA	77620	32160	45460	22.73	THE PRESIDIO TRUST
	003918517JJK	105024CA	77920	32040	45880	22.94	THE PRESIDIO TRUST
	003918518JJK	105024CA	79400	29120	50280	25.14	THE PRESIDIO TRUST
	003918519JJK	105024CA	79680	30020	49660	24.83	THE PRESIDIO TRUST
	003918520JJK	105024CA	80080	32440	47640	23.82	THE PRESIDIO TRUST
	003918521JJK	105024CA	77980	31180	46800	23.4	THE PRESIDIO TRUST
	003918522JJK	105024CA	79640	29940	49700	24.85	THE PRESIDIO TRUST
	003918523JJK	105024CA	77980	30500	47480	23.74	THE PRESIDIO TRUST
	003918524JJK	105024CA	78040	30220	47820	23.91	THE PRESIDIO TRUST
TOTAL					**2040200**	**1,020.10**	
COUNT	**44**						
5/2/2008	003519411JJK	105024CA	79300	31060	48240	24.12	THE PRESIDIO TRUST
TOTAL					**48240**	**24.12**	
COUNT	**1**						
Total	Documents:						
TOTAL					**3677340**	**1,838.67**	
COUNT	**78**						

Customer Summary Report
Criteria: 05/01/2008 12:00 AM to 07/01/2008 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)
User: Pfriddle
Date: Jul 01 2008, 8:26:20 PM - Central Standard Time
Operation Type: All
Customer Name: DenbesteTrans (Denbeste Transportation Inc)
Ticket Type: All
Customer Type: All
PMT Category: All

Ticket Date	Ticket ID	Customer	Generator	Manifest	Profile	Truck	Material	Origin	Rate Unit	Tons
6/16/2008	802796	Denbeste Transportation Inc	164-Presidio Trust	WAF	55335800	9D20498	C2 Disp SPW-Tons	SFT	TON	20.26
6/16/2008	802812	Denbeste Transportation Inc	164-Presidio Trust	WAF	55335800	9D12171	C2 Disp SPW-Tons	SFT	TON	23.32
6/16/2008	802817	Denbeste Transportation Inc	164-Presidio Trust	WAF	55335800	9d74469	C2 Disp SPW-Tons	SFT	TON	23.33
6/16/2008	802848	Denbeste Transportation Inc	164-Presidio Trust	waf	55335800	9B83593-WT	C2 Disp SPW-Tons	SFT	TON	18.6
6/16/2008	802865	Denbeste Transportation Inc	164-Presidio Trust	waf	55335800	9D20498	C2 Disp SPW-Tons	SFT	TON	21.19
6/16/2008	802872	Denbeste Transportation Inc	164-Presidio Trust	waf	55335800	9D12171	C2 Disp SPW-Tons	SFT	TON	24.27
6/16/2008	802879	Denbeste Transportation Inc	164-Presidio Trust	waf	55335800	9d74469	C2 Disp SPW-Tons	SFT	TON	22.78
6/27/2008	804551	Denbeste Transportation Inc	164-Presidio Trust	waf	55335800	7k13661	C2 Disp SPW-Tons	SFT	TON	5.6
Material Total	8									**159.35**
Customer Total	82									1916.35
Ticket Totals	82									1916.35

Internal Customer	Loads	Tons	Total Ticket Amount
External Customer	**Loads**	**Tons**	**Total Ticket Amount**
Denbeste Transportation Inc			

BUILDING 1063 MANIFESTS
5/1/08

003519400
through
003519421

003918505
through
003918524

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAR000126379 (CAR000187179) | 2. Page 1 of 1 | 3. Emergency Response Phone: 800-838-1477 | 4. Manifest Tracking Number: 003519400 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: WAH TRK. | U.S. EPA ID Number: CAR000103127

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: | U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181, 611		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9B34792 ERG: a)171 ERP# 27092
Wear Proper PPE When Handling Material. DTSC# 4381 1-31-09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David A Hale | Signature: David A Hale | Month: 05 | Day: 01 | Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: PATRICK CARSO | Signature: Patrick Carso | Month: 05 | Day: 01 | Year: 08

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Conor Adams | Signature | Month: 5 | Day: 1 | Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186279~~ CAR000186279 | 2. Page 1 of: 1 | 3. Emergency Response Phone: 800-836-1477 | 4. Manifest Tracking Number: 003519401 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Simon & Simon Trucking | U.S. EPA ID Number: CAR000093229

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: | U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	JJK	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA #16 9153872S ERG: a)171 ERG # 27092
Wear Proper PPE When Handling Material.
DTSC # 4093 5-31-08
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jennifer A Yata | Signature: J. A. Yata | Month: 05 | Day: 01 | Year: 08

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ernesto Slorio | Signature: Ernesto Slorio | Month: 5 | Day: 1 | Year: 08

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams | Signature: Ginger Adams | Month: 5 | Day: 1 | Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000126376~~ CA0001263 74	1	800-838-1477	003519402 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: E.S.T. INC — U.S. EPA ID Number: CAR000141754

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~131~~	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024QA — ERG: a)171 — ERRG# 27-092
Wear Proper PPE When Handling Material. 9D0876S — DTSc# 41433 4-30-09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jennifer A Utz — Signature: Jennifer A Utz — Month: 05 Day: 01 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Francisco Zuniga — Signature: — Month: 5 Day: 1 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature: — Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

#25...9D75153

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CA8001863379~~ CA0001663379	1	800-838-1477	003519403 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: ZAMA Trucking U.S. EPA ID Number: CAR000141606

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181,	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA ERG: a)171 ERR6# 27092
Wear Proper PPE When Handling Material.
DB06576 9095153 DTSC# 4445 5-31-08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month: 05 Day: 01 Year: 08

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Eduardo Zamora Signature: Eduardo Zamora Month: 5 Day: 1 Year: 08

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams Signature: [signature] Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000180379 / MCD041637379	1	800-838-1477	003519404 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: WAH Trucking — U.S. EPA ID Number: CAR000103127

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9B92715 ERG: 9171 ERR CH 27-09
Wear Proper PPE When Handling Material. DTSC # 4381 1-31-09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 05 Day: 01 Year: 08

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tim Benton — Signature: [illegible] — Month: 5 Day: 1 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Vince Arcuris — Signature: [illegible] — Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CA0001867374~~ CA0001867374	1	800-838-1477	003519405 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Fernando Salas Trucking — U.S. EPA ID Number: CAR-000150631

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181 611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA LIC# 9389822 ERG: a)171 ERRG #27-092
Wear Proper PPE When Handling Material. DTSC-HE SSD 2-28-09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jamie A Clark — Signature: [signature] — Month 05 Day 01 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Fernando Salas — Signature: [signature] — Month 05 Day 01 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature: [signature] — Month 5 Day 1 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186379~~ CAR000186379
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519406 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Navigas T
U.S. EPA ID Number: CAR000159103 CAT080033613

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~121~~ 121	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA ERG: a)171 ERRG # 27-092
Wear Proper PPE When Handling Material
DB06576 9D2L574 DTSC# 4593 2-28-09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month: 5 Day: 1 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Elay navigas Signature: Elay navigas Month: 5 Day: 1 Year: 08

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams Signature: [signature] Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CA0000186379	1	800-832-1477	003519407 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Wakefield Truck King — U.S. EPA ID Number: CAR000172940

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid, Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181.0~~ 611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA #4 C 9 D55619 ERG: a)171 ERR6 # 27-092
Wear Proper PPE When Handling Material. DTSC # 53441 5-31-08
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Terry Wakefield — Signature: Terry Wakefield — Month 05 Day 01 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature: [illegible] — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000136379~~ CAR000162379	1	800-838-1477	003519408 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: J Craig — U.S. EPA ID Number: CAR000162946

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~4811~~ WI	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA — ERG: a)171 — ERRG # 27.092
Wear Proper PPE When Handling Material.
DB06576 — Lic # 9324929 DTSC # 4699 6-30-05

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: James Craig — Signature — Month 5 Day 1 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☒ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Adams — Signature — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CA8000186379~~ CAR000186379	1	800-838-1477	003519409 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: ~~Custom~~ A pacheco Trucking — U.S. EPA ID Number: CAR000160598

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA — ERG: a)171 — ERG# 27-092
Wear Proper PPE When Handling Material. 9050940 DTSC # 4401 3-31-09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
CUSTODIO A PACHECO	CUSTODIO A PACHECO	5	1	08
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H157			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
Ginger Adams		5	1	08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CA8901863~~ CAR000158374
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519410 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Asbestos Training — U.S. EPA ID Number: CAD000163261

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
ERG: a)171
9859387
ERRG # 27-092
DTSC # 5388 6-30-08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 05 — Day: 01 — Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit:
Transporter signature (for exports only): — Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jose Andrade — Signature: [illegible] — Month: 5 — Day: 1 — Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature: [illegible] — Month: 5 — Day: 1 — Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000176735~~ CAR000176735
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-4477
4. Manifest Tracking Number: 00351941 1 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Orozco Trucking — U.S. EPA ID Number: CAR000176735

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAD000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9B21582 ERG: a)171 ERRG# 27-092
Wear Proper PPE When Handling Material. DTSC# 5466 9-30-08
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [signature] — Month: 05 Day: 01 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Leopoldo Orozco — Signature: Leopoldo Orozco — Month: 05 Day: 01 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jamie Wade — Signature: Jamie Wade — Month: 10 Day: 02 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000183279~~ CAR000163379	1	800-838-1477	00351941 2 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: HENDOWSKI TRUCKING — U.S. EPA ID Number: CAR000168716

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	134	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material
DB06576
ERG: a)171
9073257
ERRG # 27-092
DTSC # 5268 2-26-09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MAREK HENDOWSKI — Signature — Month 5 Day 1 Year 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: RAMONA RAMIREZ — Signature — Month 05 Day 01 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186399~~ CAR000186374	1	800-838-1477	00351941 3 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: C.D.S. TRANS — U.S. EPA ID Number: CAR000166769

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	T8E	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
ERG: a)171
9C3353-CA
ERR6 #27-092
DTSC #4611 11-30-08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Denny Clark — Signature — Month 5 Day 1 Year 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos — Signature — Month 12 Day 11 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CA8001863~~ CAR000146379	1	800-838-1477	003519414 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: GCT Trans
U.S. EPA ID Number: CAR000170477

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
L/C 920262
ERG: a)171
ERRG# 27-092
DTSC # 5352 5-31-08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature: [illegible] | Month: 05 | Day: 01 | Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] | Signature: [illegible] | Month: 5 | Day: 1 | Year: 08

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams | Signature: [illegible] | Month: 5 | Day: 1 | Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 9D47956 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186374	1	800-838-1477	003519415 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: L SINGH — U.S. EPA ID Number: CAR000171074

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~331~~ 331	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material
DB06576
ERG: a)171
ERRG # 27-092
DTSC # 5312 3-31-09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 5 Day 1 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: LAKHVIR SINGH — Signature — Month 5 Day 01 Year 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name — Signature — Month 5 Day 1 Year 08

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186379~~ CAR000154324
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519416 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: R.E.C. RUNO TRANSPORT
U.S. EPA ID Number: CAT000171272

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
U.S. EPA ID Number: CAT000646117
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181~~ 611		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
ERG: a)171
#9D34849 CA.
ERG# 27-092
DTSC# 5262 2-26-09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month: 5 Day: 1 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RANDY E. RUNO Signature: [signature] Month: 05 Day: 01 Year: 08

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Connie Adams Signature: [signature] Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Lic# 908211 4 CA

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CA0000196324	1	800-838-1477	003519417 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: L. F. TRUCKING — U.S. EPA ID Number: CAR000171025

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181~~ 611		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
ERG: a)171
ERG# 27-092
DTSC #5266 2-28 09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 5 Day 1 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: NELSON PARADO — Signature — Month 5 Day 1 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186239~~ CAR000185927	1	800-838-1477	003519418 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: M. E. TRUCKING — U.S. EPA ID Number: CAR000185927

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~T~~ T61	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA — ERG: a)171 — ERRG # 27-092
Wear Proper PPE When Handling Material — 9083268 — DTSC #5310 3-31-09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 5 Day 1 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mohammed Es-Lang — Signature — Month 5 Day 1 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramiro Ramos — Signature — Month 5 Day 7 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 CAD981463379	1	800-838-1477	003519419 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: AWAYA Trucking — U.S. EPA ID Number: CAR000160595

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9D43787 ERG: a)171 ERG # 27-092
Wear Proper PPE When Handling Material.
DTSC # 4601 3-31-09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 5 Day 1 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alfredo Apacheco — Signature — Month 5 Day 1 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Gilmar Adkins — Signature — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186379	1	800-838-1477	003519420 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: R. Flores Trucking — U.S. EPA ID Number: CAR000 197320

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material
DB06576 VP04870
ERG: a)171 ERRG # 27-092
DTSC # 3985 3-31-09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 5 Day 1 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Manuel Hernan Ramos — Signature — Month 5 Day 01 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Rantz — Signature — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

9B83006

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000126370~~ CAR000186370	1	800-838-1477	003519421 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: TNC TRUCKING — U.S. EPA ID Number: CAD000148809

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	18T	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9B83006 ERG: a)171 ERG # 27-092
Wear Proper PPE When Handling Material.
DB06576 DTSC # 45535 11/30/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 5 Day 1 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ANTONIO GODINEZ — Signature: Antonio Godinez — Month 5 Day 1 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos — Signature: RR — Month 05 Day 01 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186379	1	800-838-1477	003918505 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Denbo Ste Transportation Inc
U.S. EPA ID Number: CAD982513622

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181~~	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA UP45880 ERG: a)171 EPR6# 22-012
Wear Proper PPE When Handling Material. DTSC# 2578
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jesse A Ortiz
Signature: Jesse A Ortiz
Month 05 Day 01 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tim Shaw
Signature:
Month 05 Day 01 Year 09

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Marina Ramos
Signature:
Month 05 Day 11 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000183779~~ CAR000183729	1	800-838-1477	003918506 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

Generator's Phone: 415-561-5300

6. Transporter 1 Company Name: DAN BEST TRANSPORTATION INC
U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
U.S. EPA ID Number: CAT000646117
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181~~	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA UPH5877 ERG: a)171 ERRG-27-092
Wear Proper PPE When Handling Material OTSC# 2578
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month: 05 Day: 01 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] Signature: [signature] Month: 05 Day: 01 Year: 08

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H129			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: PADMA RAMOS Signature: [signature] Month: 05 Day: 09 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186338 CAR000186338	1	800-838-1477	003918507 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: DonBeste Transportation Inc. — U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	F81,	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 103024CA
Wear Proper PPE When Handling/Material.
DB06576
ERG: a)171
ERRA-27-002
DTSC # 2578

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Scott A Clute — Signature: [signature] — Month: 05 Day: 01 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rodney Kilcrease — Signature: [signature] — Month: 05 Day: 01 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos — Signature: [signature] — Month: 05 Day: 01 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UP34923 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186329~~ CAR000186329	1	800-838-1477	003918508 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Denbeste Transportation Inc — U.S. EPA ID Number: CAD982033432

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid, Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181~~ 611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA UP34923 ERG: a)171 ERG# 2092
Wear Proper PPE When Handling Material
DTSC #
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Antonio Lopez — Signature — Month 05 Day 01 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: Ginger Adams — Signature — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 / LAB6MA86379	1	800-838-1477	003918509 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: DonBak Transportation INC — U.S. EPA ID Number: CAD982513633

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	TSR	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA — 9P45883 — ERG: a)171 — ERP# 27-092 — DTSC # 2578
Wear Proper PPE When Handling Material.
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month 08 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Pedro Campos — Signature: [signature] — Month 8 Day 1 Year 8

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature: [signature] — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

UP 45884

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000126359~~ CAR000162778	1	800-838-1477	003918510 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Denbeste transportation inc
U.S. EPA ID Number: CAD982513638

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~H81~~ 611		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA UP45884 ERG: a)171 EPR # 22092
Wear Proper PPE When Handling Material. DTSC # 3578
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Joe Sa Clark Signature: Joe Sa Clark Month: 05 Day: 01 Year: 08

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jose Hernandez Signature: Month: 05 Day: 01 Year: 08

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Ackerman Signature: Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

TPO3186

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAR000143279 (CAR000143274)	1	800-838-1477	00391851 1 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Bay Area Lamp, Inc. U.S. EPA ID Number: CAD982513633

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid, Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181, 611		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA ERG: a)171 ERG# FJ2092
Wear Proper PPE When Handling Material. Inv# TP03186 DTSC ID# 2578
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Linda A Wade Signature: Linda A Wade Month: 05 Day: 01 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ramon Lopez Signature: Ramon Lopez Month: 05 Day: 01 Year: 08

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H020			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramon Kopec Signature: RK Month: 05 Day: 01 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186379	1	800-838-1477	003918512 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: DENBESTE TRANSPORTATION INC. U.S. EPA ID Number: CAD982513652

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
U.S. EPA ID Number: CAT000646117
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181 611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
ERG: a)171
UP14694
ERR # 27-092
DTSC # 2578

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] Signature: [illegible] Month 05 Day 01 Year 08

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos Signature: [illegible] Month 05 Day 01 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

UP34922

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 CAD000182729	1	800-838-1477	003918513 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: DenBeste Transportation INC. U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181~~ 611		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA UP3-1922 ERG: a)171 ERRG-27092
Wear Proper PPE When Handling Material. DTSC # 2578
DR06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Alfonso Cortez Signature: Alfonso Cortez Month: 05 Day: 01 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alfonso Cortez Jr Signature: Alfonso Cortez Month: 05 Day: 01 Year: 08

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams Signature: Ginger Adams Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 CAA0001379	1	800-838-1477	003918514 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Denbeste Transportation INC — U.S. EPA ID Number: CAD 982513632

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	134	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA — ERG: a)171 ERG-22092
Wear Proper PPE When Handling Material.
DB06576 SP44576 DTSC# 2578

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 5 Day 1 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Javier Caldera — Signature: Javier Caldera — Month 5 Day 01 Year 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: Grace Adams — Signature — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186379~~ CAR000163379
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003918515 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-3300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Denbest Transportation Inc.
U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181~~ 611		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
ERG: a)171 ERG # 27093
Truck 208-SP92669 DTSC # 2578

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David A Updike
Signature: David A Updike
Month: 05 Day: 01 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ignacio Sevilla
Signature: Ignacio Sevilla
Month: 05 Day: 01 Year: 08

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H129			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos
Signature: RR
Month: 05 Day: 07 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186379	1	800-838-1477	003918516 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Decobeste Transportation INC. U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~331~~ 611		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA ERG: a)171 ERG # 27092
Wear Proper PPE When Handling Material. DTSC # 2578
DB06576 SP 70049

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [signature] Signature: [signature] Month: 05 Day: 01 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Gary Arellano Signature: [signature] Month: 05 Day: 01 Year: 08

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Grace Adams Signature: [signature] Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186579~~ CAR000163794	1	800-838-1477	00391851 7 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Del Puerto — U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~TBT~~ 791A	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material
DB806576
SP 44562 ERG: a)171
ERRA # 27092
DTSC 2578

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: John A Ochs — Signature: John A Ochs — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mel Paredes R — Signature: Mel Paredes R — Month 05 Day 01 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186329~~ CA0001863 24	1	800-838-1477	003918518 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: J J Perez Logging — U.S. EPA ID Number: CAR000154720

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~134~~	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA ERG: a)171 EPA ID # 27093
Wear Proper PPE When Handling Material.
DB06576 LIC #0064362 DTSC # 3856 1-31-09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Edwin C Cornejo — Signature — Month 05 Day 01 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Adams — Signature — Month 5 Day 1 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000184374~~ CA000184374	1	800-838-1477	003918519 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: AD Peyer & Sons — U.S. EPA ID Number: CAR000154476

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid, Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~H81~~ H	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA ~~900540~~ ERG: a)171 ERG # 27092
Wear Proper PPE When Handling Material.
DTSC # 3556, 1-31-09
DF06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 05 Day: 01 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dennis Gomez — Signature: [illegible] — Month: 5 Day: 01 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186320~~ / CA0000463?4	1	800-838-1477	00391852O JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Scott Trucking — U.S. EPA ID Number: CAR000124649

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~JBR~~	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA — 1902720 — ERG: a)171 — ERG # 27093
Wear Proper PPE When Handling Material.
DB06576 — DTSC # 390. 4-30-09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CHARLES ARMES — Signature — Month 5 Day 1 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jamie Wall — Signature: Jamie Wall — Month 05 Day 01 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186379	1	800-838-1477	003918521 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Pacheco + Sons — U.S. EPA ID Number: CAR000182151

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LD RQ)	001	DT	00018	Y	~~134~~ 134	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA SF92731 ERG: a)171 ERG # 22-092
Wear Proper PPE When Handling Material.
DTSC # 3936 7-31-08
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tom Pacheco — Signature — Month 05 Day 01 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: James Dorsa — Signature — Month 05 Day 01 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186320 CA8000163734	1	800-838-1477	003918522 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: SAT TRUCKING — U.S. EPA ID Number: CAR 000 084 436

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	120	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
ERG: a)171 ERPG # 27092
#9B62895 DTSC # 3927 3-31-09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: NILESH PANCHAL — Signature — Month 05 Day 01 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Grace Ackums — Signature — Month 5 Day 1 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000158759~~ CAR000186279	1	800-838-1477	003918523 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: GOLDEN GATE TANKERS — U.S. EPA ID Number: CAR000179680

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181~~ 134	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material
DB06576
ERG: a)171
Lic# 9467023
ERR # 27092
DTSC # 3937 1-31-09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 05 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GEORGE LIMA — Signature — Month 05 Day 01 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186759~~ CA0000163774	1	800-838-1477	003918524 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Simay & Simay — U.S. EPA ID Number: CAK 000093229

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste-Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~NOT~~	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA ERG: a)171 ERR6# 27-092
Wear Proper PPE When Handling Material.
DTSC # 4093 5-31-08
DB06576 2083563

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David Alt — Signature — Month 05 Day 01 Year 08

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Omero Ramirez — Signature — Month 05 Day 01 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature — Month 5 Day 1 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

BUILDING 1063 MANIFESTS
5/30/08

003519399
003519429
through
003519453
003519457
through
003519459
003519462
through
003519465

003918502
through
003918504

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186279	1	800 838 1477	003519399 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Den Beste Transportation Inc. | U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:

U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA ERG: a)171 ERM# 27-092
Wear Proper PPE When Handling Material Plat: # UP45876 DTSC# 2578
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Dennis A. Yada | Signature | Month 04 | Day 30 | Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rodney K. Increase | Signature | Month 04 | Day 30 | Year 08

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams | Signature | Month | Day 30 | Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186329~~ CAR000162371
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519429 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Denbeste Transportation Inc
U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~48H~~ 48H	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA ERG: a)171 ERR# 27-093
Wear Proper PPE When Handling Material Hup34923 DTSC # 2578
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Sonia A. Cruz Signature: [signature] Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Antonio Lopez Signature: [signature] Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H122			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos Signature: [signature] Month: 04 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000126379~~ CA0001263 79	1	800-838-1477	00351943O JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Dow Beste Transportation Inc — U.S. EPA ID Number: CAD982512632

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181 DN	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material
DB06576
UP45883 ERG: a)171 ERRL#27-09a DTSC #2578

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Pedro Campos — Signature: [illegible] — Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Omar Adams — Signature: [illegible] — Month: 4 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186379~~ CAR000186379
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519431 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Dearborn Transp. Inc. U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA TP03186 ERG: a)171 ERG # 27-042
Wear Proper PPE When Handling Material. DTSC # 3578
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jean A. Ujak Signature: Jean A. Ujak Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ramon Lopez Valdez Signature: Ramon Lopez Valdez Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos Signature: Ramona Ramos Month: 04 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

UP34922

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 / AR0001437	1	800-838-1477	003519432 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: DenBeste Transportation INC. — U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	184	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material
DB06576
UP34922 ERG: a)171 ERG# 27-049 DTSC # 2578

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alfonso Cortez Jr — Signature — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramirez — Signature — Month 04 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186239~~ CAR000163724
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519433 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Denbeste Transportation inc
U.S. EPA ID Number: CAD981513633

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA SP92689 ERG: a)171 EPA# 27-092
Wear Proper PPE When Handling Material DTSC# 2578
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ignacio Sevilla Signature: Ignacio Sevilla Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name: Signature: Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H120			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos Signature: [illegible] Month 04 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

7-12-5-SP70049

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000126336~~ CAR000164224	1	800-838-1477	003519434 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Peabody Transportation Inc — U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~NH~~	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA SP70049 ERG: a)171 EEQ#27042
Wear Proper PPE When Handling Material.
DB06576 DTSC # 2578

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 4 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month 4 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

VP04870

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186759~~ CAR000187179	1	800-838-1477	003519435 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: R. Francl Trng — U.S. EPA ID Number: CAR000177370

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	134	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA — VP04870 — ERG: a)171 — ERRG# 27-042
Wear Proper PPE When Handling Material. — DTSC#3985 3/31/04
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 04 — Day: 30 — Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mina Hemana Ahmed — Signature: Mina Hemana — Month: 4 — Day: 30 — Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Since Adams — Signature: [illegible] — Month: 4 — Day: 30 — Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186270~~ CAR000184279	1	800-838-1477	003519436 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Simon & Simon — U.S. EPA ID Number: CAK 000093229

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9D8363 ERG: a)171 ERG# 27-092
Wear Proper PPE When Handling Material.
DB06576 DTSC #4093 5/31/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Simon — Signature: — Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☑ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Omero Maurice — Signature: — Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Gilbert Adams — Signature: — Month: 4 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186379	1	800-838-1477	003519437 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Simon Salomon Trucking — U.S. EPA ID Number: CAR000093229

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	184	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9B38425 ERG: a)171 ERP6#27-092
Wear Proper PPE When Handling Material. DTSC #4093 5/31/08
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ERNESTO SOLORIO — Signature — Month 4 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H129			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: RAMONA RAMOS — Signature — Month 5 Day 31 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

#25-9D95153

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379	1	800-838-1477	003519438 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: EQUILON Trucking — U.S. EPA ID Number: CAR000141166

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	[illegible]	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
9D95153 ERG: a)171 ERRO-#27-092 DTSC-#4445 5/31/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Equilon Enterprises — Signature: [illegible] — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: Ramona Ramos — Signature: [illegible] — Month 06 Day 2 Year 08

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CA0001863729~~ CAR000186379	1	800-838-1477	003519439 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: TNS TRUCKING — U.S. EPA ID Number: CAR000148809

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
33251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LR RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 1B88006 ERG: a)171 ERG #27-092
Wear Proper PPE When Handling Material.
DB06576 DTSC#4535 11/30/05

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [signature] — Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ANTONIO GODINEZ — Signature: Antonio Godinez — Month: 4 Day: 30 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Pamma Hamm — Signature: [signature] — Month: 04 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000126370~~ CAR000163709	1	800-838-1477	00351944O JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Fernando Salas Trucking — U.S. EPA ID Number: CAR-000150631

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~331~~ 321	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 989822 ERG: a)171 ERG #27-092
Wear Proper PPE When Handling Material.
DTSC #5050 2/28/09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Fernando Salas — Signature — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos — Signature — Month 04 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 CAR000186379	1	800-838-1477	003519441 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Aguilars Trucking — U.S. EPA ID Number: CAR 000 151 555

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA TD43757 ERG: a)171 ERG#27-092
Wear Proper PPE When Handling Material
DB06576 (TD43757) DTSC#5070 3/31/09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jennifer A Ward — Signature: Jennifer A Ward — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jorge Aguilar — Signature: Jorge Aguilar — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jennifer Ward — Signature: Jennifer Ward — Month 04 Day 30 Year 08

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 CAR000186379	1	800-838-1477	003519442 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Aprigas T — U.S. EPA ID Number: CAR 159103

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181 611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9D31574 ERG: a)171 ERG# 27-092
Wear Proper PPE When Handling Material.
DB06576 DTSC # 4593 2/28/09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Eloy Maricgas T — Signature: Eloy Maricga — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H129			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos — Signature — Month 04 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186379~~ CAR000186379
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519443 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Wakefield trucking — U.S. EPA ID Number: CAR000172940

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA DTSC# 9D55619 ERG: a)171 ERG# 27-092
Wear Proper PPE When Handling Material.
DB06576
DTSC#5344 5/31/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Terry Wakefield — Signature: Terry Wakefield — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Grace Adams — Signature — Month 4 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 CAR000186379	1	800-838-1477	00351944 4 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Aguilar's Trucking — U.S. EPA ID Number: CAR000155555

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 904364 ERG: a)171 ERG #27.092
Wear Proper PPE When Handling Material.
DB06576 DTSC # 5070 3/31/2009

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jose R Aguilar — Signature: Jose R Aguilar — Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jamie Ward — Signature: Jamie Ward — Month: 04 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

904364

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 9043562 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186379	1	800-838-1477	003519445 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Caldera Trucking — U.S. EPA ID Number: CAR000173716

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9043562 ERG: a)171 ERG#32.092
Wear Proper PPE When Handling Material.
DB06576 DTSC#5392 6/30/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Eduardo Caldera — Signature — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: James Wade — Signature — Month 04 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000126230~~ CAR000186779	1	800-838-1477	003519446 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Watkins Transport — U.S. EPA ID Number: CAR000 177204

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~181~~ 611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA Lic# 9D44306 ERG: a)171 ERD # 27092
Wear Proper PPE When Handling Material.
DB06576 DTSC #5474 9/30/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jose Daniel Saldivar Garcia — Signature — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Grace Adams — Signature — Month 4 Day 30 Year 08

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000086379~~ CAR000186379
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519447 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Hernandez Trucking
U.S. EPA ID Number: CAR000179887

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9834788 ERG: a)171 ERR6 # 27-092
Wear Proper PPE When Handling Material.
DB06576 DTSC # 5560 12/31/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Sinda A Uptc
Signature
Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rogelio Hernandez
Signature: Rogelio Hernandez
Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams
Signature
Month 4 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

9D81318

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 CAR000186379	1	800-838-1477	003519448 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: ESPINOZA TRANSPORTATION — U.S. EPA ID Number: CAR000181980

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	LBP 611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9D81318 ERG: a)171 ERRG #27-092
Wear Proper PPE When Handling Material.
DB06576 DTSC # 9975 5/31/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David A. Ly — Signature: David A. Ly — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Francisco Espinoza — Signature: Francisco Espinoza — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature: Ginger Adams — Month 4 Day 30 Year 08

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAD981863579~~ CAR000182799
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 00351944 9 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Steve Badgl Trucking
U.S. EPA ID Number: CAR000182899

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
3525E Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA Lic# 9B04335 ERG: a)171 ERR6 # 27092
Wear Proper PPE When Handling Material
DTSC #4979 5/31/68
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve Badgl Signature: [signature] Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams Signature: [signature] Month: 4 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAR000186329 CAR000163704
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519450 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: ETZ INC
U.S. EPA ID Number: CAR000141754

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9D08765 ERG: a)171 ERG#27-092
Wear Proper PPE When Handling Material.
DB06576 DTSC #4433 4/30/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Francisco Zuniga Signature: [signature] Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams Signature: [signature] Month: 4 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

E 9D83998

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CA9901863~~ CAR000186379	1	800-838-1477	003519451 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: ICE Princess Enterprises — U.S. EPA ID Number: CAR000182691

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	285	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9D83998 ERG: a)171 ERG#37092
Wear Proper PPE When Handling Material.
DTSC#4965 4/30/08
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Larry Wilkerson — Signature: [illegible] — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona Ramos — Signature: [illegible] — Month 04 Day 30 Year 08

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186270~~ CAR000186279
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519452 JJK

GENERATOR

5. Generator's Name and Mailing Address:
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address):
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Todd Baboo Trucking — U.S. EPA ID Number: CAR000185041

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~AST~~ 611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
ERG: a)171
9D19566
ERR6#27092
DTSC#5085 7/31/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Todd Baboo — Signature — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Angel Adams — Signature — Month 9 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

9D12171

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000180570~~ CAR000183794	1	800-838-1477	003519453 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Union 1 of Teresa Botello Transport — U.S. EPA ID Number: CAR000173781

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181 611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9D12171 ERG: a)171 ERRG# 27-052
Wear Proper PPE When Handling Material.
DTSC # 4563 12/31/08
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Joanna A. Utz — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Union 1 of Jose Botello — Signature: Union 1 of Jose Botello — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: Samuel Dod — Signature: Samuel Dod — Month 04 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

9D94276

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000186379 CA0000186379	1	800-838-1477	003519457 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Clean Harbors Trucking Co. U.S. EPA ID Number: CAD000029193

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9D94276 ERG: a)171 ERR# 27092
Wear Proper PPE When Handling Material.
DB06576 DTSC# 4607 4/30/09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Celtus McDonald Signature: [illegible] Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H20			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Karen Rame Signature: [illegible] Month: 04 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

MSK68

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186374	1	800-838-1477	003519458 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: MSM TRANSPORT — U.S. EPA ID Number: CAR000178442

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~147~~ 141
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA MSK 68 ERG: a)171 ERG# 22092
Wear Proper PPE When Handling Material.
DB06576 DTSC# 5516 11/30/09

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MANUEL MANZANO — Signature — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature — Month 4 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ~~CAR000186379~~ CAR000186379
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519459 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: CWSI MEX TRANSPORT
U.S. EPA ID Number: CAR 000182006

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	184	611	
	2.							
	3.							
	4.							

9087148

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
9087148
ERG: a)171
ERR # 27092
DTSC # 4999 6/30/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature: [signature] | Month: 04 | Day: 30 | Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JOSE PADILLA | Signature: JOSE J. PADILLA | Month: 04 | Day: 30 | Year: 08

Transporter 2 Printed/Typed Name: | Signature: | Month: | Day: | Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams | Signature: [signature] | Month: 4 | Day: 30 | Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

9D8795 1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186279~~ CAR000186378	1	800-838-1477	003519462 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: E & A Trucking — U.S. EPA ID Number: PAD000178393

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
9D87951 ERG: a)171 ERRG# 27-092
DTSC# 5502 9/30/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month 4 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAR000186739 CAR000187791
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: 003519463 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Antweb Transp — U.S. EPA ID Number: CAR 000188813

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone:
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 905980 ERG: a)171 ERR # 27-092
Wear Proper PPE When Handling Material. DTSC # 5604 1/31/09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [signature] — Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Sergio Andrade — Signature: [signature] — Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: Ginger Adams — Signature: [signature] — Month: 5 Day: 1 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186378~~ CAR000184374	1	800-838-1477	003519464 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Cycle Trucking — U.S. EPA ID Number: CAL000159902

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
33251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	(D) 081	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA 9081348 ERG: a)171 CRRA#27092
Wear Proper PPE When Handling Material.
DTSC# 5616 2/28/09
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jennifer A Quirk — Signature: Jennifer A Quirk — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Carlos Juan — Signature — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature — Month 5 Day 1 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186724~~ CAR000186724	1	800-838-1477	003519465 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

6. Transporter 1 Company Name: Acklam Trucking — U.S. EPA ID Number: CAD 981420 813

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~H32~~ 331	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
SP99295 ERG: a)171
ERG#22-092
DTSC #2053 12/31/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Todd Acklam — Signature: [illegible] — Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H32			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Gina Adams — Signature: [illegible] — Month: 4 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000183379~~ CAR000183379	1	800-838-1477	003918502 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco., CA 94129

Generator's Phone: 415-561-5300

6. Transporter 1 Company Name: Cortez Trucking — U.S. EPA ID Number: CAR000177949

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711

U.S. EPA ID Number: CAT000646117

Facility's Phone:

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~HRT~~ 611		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a). 105024CA 9D37012 ERG: a)171 ERR6#27-092
Wear Proper PPE When Handling Material. DTSC # 5080 6/30/08
DB06576

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Lupe Cortez — Signature: [illegible] — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature: [illegible] — Month 4 Day 30 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000168758~~ CAR000163729	1	800-838-1477	003918503 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: HORACIO LOPEZ TRANS — U.S. EPA ID Number: CAR000177753

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	~~184~~ 134	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material
DB06576
9B43439 ERG: a)171
ERR# 27-092
DTSC# 4865 1/31/08

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 04 Day: 30 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HORACIO LOPEZ — Signature: [illegible] — Month: 04 Day: 30 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ginger Adams — Signature: [illegible] — Month: 4 Day: 30 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
~~CAR000186379~~ CAR000186379	1	800-838-1477	003918504 JJK

GENERATOR

5. Generator's Name and Mailing Address
The Presidio Trust
34 Graham St PO Box 29052
San Francisco, CA 94129
Generator's Phone: 415-561-5300

Generator's Site Address (if different than mailing address)
The Presidio Trust
1471 Central Magazine Rd
San Francisco, CA 94129

6. Transporter 1 Company Name: Denbeste Transportation Inc — U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711
Facility's Phone: — U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid Soil contaminated with 93-100 MG/KG Lead (Lead < 10 LB RQ)	001	DT	00018	Y	18K	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile #: a) 105024CA
Wear Proper PPE When Handling Material.
DB06576
ERG: a)171
UP14678
ERRG-II 27-092
DTSC #2578

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month 04 Day 30 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve Cook — Signature — Month 04 Day 30 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month 05 Day 01 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

APPENDIX I

LEVEL II, LEVEL III, AND LEVEL IV QUALITY CONTROL SUMMARY REPORTS

APPENDIX I

CONTENTS

Level III Data Validation Report
June 4, 2008 – Summary of Level III Data Validation – October 15, 2007 through May 13, 2008 Confirmation Soil Sampling
Table 1 – Summary of Samples Collected – Building 1065 – 10/15/07 through 05/13/08
Table 2 – Summary of Level III Data Validation Qualifiers – 10/15/07 through 05/13/08

Level II Data Validation Reports
October 26, 2007 – Summary of Level II Data Validation – October 15, 2007 Backfill Confirmation Sampling – C&T Report 198380
November 9, 2007 – Summary of Level II Data Validation – October 30, 2007 Soil Confirmation Sampling – C&T Report 198818
November 7, 2007 – Summary of Level II Data Validation – October 31, 2007 Dewatering Confirmation Sampling – C&T Report 198879
November 9, 2007 – Summary of Level II Data Validation – October 31, 2007 Backfill Confirmation Sampling – C&T Report 198880
November 14, 2007 (Revised) – Summary of Level II Data Validation – November 1, 2007 Soil Confirmation Sampling – C&T Report 198903
November 13, 2007 – Summary of Level II Data Validation – November 7, 2007 Confirmation Soil Sampling – C&T Report 199042
November 15, 2007 – Summary of Level II Data Validation – November 12, 2007 Confirmation Soil Sampling – C&T Report 199163
November 19, 2007 – Summary of Level II Data Validation – November 14, 2007 Confirmation Soil Sampling – C&T Report 199248
November 29, 2007 – Summary of Level II Data Validation – November 21, 2007 Confirmation Soil Sampling – C&T Report 199433
January 3, 2008 – Summary of Level II Data Validation – December 19, 2007 Storm Drain Soil Sampling – C&T Report 200073
January 29, 2008 – Summary of Level II Data Validation – January 11, 2008 Backfill Soil Sampling – C&T Report 200520
January 30, 2008 – Summary of Level II Data Validation – January 22, 2008 Confirmation Soil Sampling – C&T Report 200684

Table 1 – Summary of Level II Data Validation Qualifiers – March 6, 2008 Soil Confirmation Sampling Building 1065 – C&T Report 201726
Table 1 – Summary of Level II Data Validation Qualifiers – March 19, 2008 Soil Confirmation Sampling Building 1065 – C&T Report 202043
Table 1 – Summary of Level II Data Validation Qualifiers – March 26, 2008 Soil Confirmation Sampling Building 1065 – C&T Report 202203
Table 1 – Summary of Level II Data Validation Qualifiers – May 9, 2008 Soil Confirmation Sampling Building 1065 – C&T Report 203210
Table 1 – Summary of Level II Data Validation Qualifiers – May 13, 2008 Soil Confirmation Sampling Building 1065 – C&T Report 203251

Level IV Data Validation Report
April 24, 2008 – Summary of Level IV Data Validation – March 19, 2008 Confirmation Soil Sampling – C&T Report 202043

Level III Data Validation Report

MACTEC

DATE: June 4, 2008
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level III Data Validation – October 15, 2007 through May 13, 2008 Confirmation Soil Sampling, Building 1065 Presidio of San Francisco, California
PROJECT #: 4084075115

DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

This Appendix summarizes results of Level III review of chemical analytical results generated during the Building 1065 Area CAP Implementation at the Presidio of San Francisco, California. Soil and water samples were collected between October 15, 2007 and May 13, 2008 in support of the corrective actions to address soil and groundwater contamination that is related to or co-located with releases of petroleum hydrocarbons from past uses of the Site. Table 1 presents a list of each sample delivery group (SDG) and samples collected as part of this project.

It is noted that Level II cursory data review was performed on data packages prepared on rush turnaround and included review of 1) target compound lists, 2) detection limits, 3) holding times, 4) blank results, 5) surrogate recoveries, 6) laboratory control sample/laboratory control spike duplicate (LCS/LCSD) samples, 7) matrix spike/matrix spike duplicate (MS/MSD) samples, 8) laboratory duplicate samples, and 9) field quality control (QC) samples. The results of the Level II validation were summarized in Cursory Data Review Summary Reports that are included in Attachment 1, with the exception of the final three SDGs, 202203, 203210, and 203251, which were summarized with tables only. Level III validation includes review of these QC data plus the following additional laboratory QC data: 10) GC/MS tunes, 11) performance evaluation mix (PEM) standards, 12) ICP interference check standards, 13) ICP serial dilutions, 14) post-digest spikes, 15) initial calibrations, 16) continuing calibration verifications (CCV), and 17) internal standards. The Level III review for SDG 202203, 203210, and 203251 include both the Level II and Level III parameters listed above. Level III validation was performed in accordance with the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and

- *USEPA National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review*, September 2005, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan,* April, 2001.

The text of this Appendix summarizes by SDG only the additional findings from the Level III review that were not summarized in the Cursory Data Review Summary Reports, with the exception of the final three SDGs which include both the hereto unreported Level II and the Level III review. Table 2 presents qualifiers generated during Level III validation.

ADDITIONAL FINDINGS FROM LEVEL III REVIEW

SDG 198380

VOLATILE ORGANIC COMPOUNDS (Benzene, Toluene, Ethylbenzene, and Total Xylenes) by GC/MS (8260B)

Overall, the data are usable as reported. No further qualifications were required.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. No further qualifications were required.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. No further qualification was required.

METALS (6010B/6020/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections A and B.

A. **ICP Serial Dilution**

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. A percent difference for barium failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065BC401 at 11%. The results for barium were qualified as estimated (J) in the associated samples.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, molybdenum, and zinc failed the 75-125% project QC criteria in QC samples 1065BC401 MS/MSD at 37/36%, 72/67%, and passing/62%, respectively. The results for antimony, molybdenum, and zinc in the associated project samples were qualified as estimated (J).

SDG 198817 and 198818

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Additional qualifications were required for the reasons noted in Sections A and B.

A. **Initial Calibrations**

Initial calibration criteria were met for all calibration standards associated with the project samples, with the following exceptions:

1. The initial calibration analyzed on 10/23/07 on instrument MSVOA09 had one compound with a %RSD greater than the +/-20% acceptance criteria: vinyl acetate (23%). The result for vinyl acetate in sample 1065EX353RB354 was qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to initial calibration %RSD failures.

B. **Continuing Calibration Verifications**

Continuing calibration criteria were met for all initial and continuing calibration standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed on 10/31/07 at 8:20 on instrument MSVOA05 had three compounds with %Ds exceeding the +/-20% acceptance criteria: vinyl acetate (-36%), 1,2,4-trichlorobenzene (-21%), and naphthalene (-41%). The non-detected results for the compounds listed above in sample TRIP BLANK were qualified as estimated (UJ).
2. The CCV standard analyzed on 10/31/07 at 14:04 on instrument MSVOA09 had two compounds with %Ds exceeding the +/-20% acceptance criteria: bromomethane (-31%) and carbon disulfide (-26%). The non-detected results for the compounds listed above in sample 1065EX353RB354 were qualified as estimated (UJ).
3. The CCV standard analyzed on 11/2/07 at 10:25 on instrument MSVOA12 had one compound with a %D exceeding the +/-20% acceptance criteria: trichlorofluoromethane (-21%). The non-detected results for trichlorofluoromethane in the associated samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. No further qualifications were required.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)
Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. No further qualification was required.

METALS (6010B/7470A/7471A)
Overall, the data are usable as reported. Qualifications were required for the reasons in Sections A and B.

A. **ICP Serial Dilution**
All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. Percent differences for barium, beryllium, chromium, cobalt, lead, nickel, and zinc failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX352[4.0] at 13%, 15%, 12%, 16%, 14%, 13%, and 14%, respectively. The results for the elements listed above were qualified as estimated (J/UJ) in the associated samples.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, lead, and nickel failed the 75-125% project QC criteria in QC samples 1065EX352[4.0] MS/MSD at 50/51%, 161%/passing, 64/35%, and 151/184%, respectively. The results for antimony and lead in the associated project samples were qualified as estimated (J/UJ) and the detected results for copper and nickel were qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to matrix spike recovery outliers.

SDG 198879

METALS (6010B/7470A)

Overall, the data are usable as reported. No further qualifications were required. It should be noted that the samples were analyzed using SW-846 Methods 6010B and 7470A instead of EPA Methods 200.7 and 245.1 which were specified in the Work Plan. In the reviewers opinion, the change in methodology does not impact the data.

GENERAL CHEMISTRY (150.1, 1664A, 420.1, SM4500CN-E, SM4500S2-D)

Overall, the data are usable as reported. No further qualifications were required.

SDG 198880

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Additional qualifications were required for the reasons noted in Section A.

A. **Continuing Calibration Verifications**

Continuing calibration criteria were met for all initial and continuing calibration standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed on 11/2/07 at 10:25 on instrument MSVOA12 had one compound with a %D exceeding the +/-20% acceptance criteria: trichlorofluoromethane (-21%). The non-detected results for trichlorofluoromethane in the associated samples were qualified as estimated (UJ).
2. The CCV standard analyzed on 11/05/07 at 12:29 on instrument MSVOA12 had two compounds with %Ds exceeding the +/-20% acceptance criteria: isopropylbenzene (22%) and propylbenzene (21%). The detected results for isopropylbenzene and propylbenzene in sample 1065EX357[4.0] were qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. No further qualifications were required.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. No further qualification was required.

METALS (6010B/7470A/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections A and B.

A. **ICP Serial Dilution**

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. A percent difference for beryllium failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX359[4.0] at 17%. The results for beryllium were qualified as estimated (J) in the associated samples.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, lead, and zinc failed the 75-125% project QC criteria in QC samples 1065EX359[4.0] MS/MSD at 63/61%, passing/188, passing/160%, and 570/338%, respectively. The results for antimony, copper, and zinc in the associated project samples were qualified as estimated (J) and the detected result for lead in sample 1065EX357[4.0] was qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

SDG 198903

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)
Overall, the data are usable as reported. Additional qualifications were required for the reason noted in Section A.

A. **Continuing Calibration Verifications**
Continuing calibration criteria were met for all initial and continuing calibration standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed on 11/2/07 at 9:15 on instrument MSVOA06 had one compound with a %D exceeding the +/-20% acceptance criteria: naphthalene (-21%). The results for naphthalene in the associated samples were qualified as estimated (UJ).
2. The CCV standard analyzed on 11/07/07 at 8:36 on instrument MSVOA06 had one compound with a %D exceeding the +/-20% acceptance criteria: 1,2-dibromo-3-chloropropane (-22%). The result for 1,2-dibromo-3-chloropropane in sample 1065EX362[5.5] was qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)
Overall, the data are usable as reported. No further qualifications were required.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)
Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. No further qualification was required.

METALS (6010B/6020/7470A/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections A and B.

A. **ICP Serial Dilution**
All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. A percent difference for beryllium failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX359[4.0] at 17%. The results for beryllium were qualified as estimated (J) in the associated samples.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, lead, mercury, and zinc failed the 75-125% project acceptance criteria in QC samples 1065EX359[4.0] MS/MSD at 63%/61%, passing/188%, passing/160%, 25%/-4%, and 570%/338%, respectively. The results for antimony, copper, lead, and zinc in the associated project sample were qualified as estimated (J). The post-digest spike failed for mercury and the results for mercury were qualified as estimated with a low bias (J-).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

SDG 199042

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Additional qualifications were required for the reason noted in Section A.

A. **Continuing Calibration Verifications**
Continuing calibration criteria were met for all initial and continuing calibration standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed on 11/8/07 at 10:12 on instrument MSVOA012 had six compounds with %Ds exceeding the +/-20% acceptance criteria: trichlorofluoromethane (-27%), 1,1,1-trichloroethane (-24%), carbon tetrachloride (-31%), 1,2-dichloroethane (-23%), tetrachloroethene (-22%), and dibromochloromethane (-21%). The results for the compounds listed above in the associated samples were qualified as estimated (UJ).

2. The CCV standard analyzed on 11/07/07 at 8:36 on instrument MSVOA06 had one compound with a %D exceeding the +/-20% acceptance criteria: 1,2-dibromo-3-chloropropane (-22%). The result for 1,2-dibromo-3-chloropropane in sample 1065EX362[5.5] was qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. No further qualifications were required.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. No further qualification was required.

METALS (6010B/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections A and B.

A. **ICP Serial Dilution**

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. A percent difference for antimony failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX363[8.0] at 18%. The results for antimony were qualified as estimated (J/UJ) in the associated samples.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, and mercury failed the 75-125% project QC criteria in QC samples 1065EX363[8.0] MS/MSD at 38/39%, 140%/passing, and 135%/passing, respectively. The post-spike for antimony and copper passed. The results for antimony and copper in the associated project samples were qualified as estimated (J). The results for mercury in the associated samples were qualified as estimated with a high bias (J+).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

SDG 199163

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Additional qualifications were required for the reason noted in Section A.

A. **Continuing Calibration Verifications**

Continuing calibration criteria were met for all initial and continuing calibration standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed on 11/12/07 at 16:39 on instrument MSVOA012 had one compound with a %D exceeding the +/-20% acceptance criteria: Freon 113 (-22%). The results for Freon 113 in the associated samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were required for the reason noted in Section A.

A. **Initial Calibration Verification and Continuing Calibrations**

Continuing calibration criteria were met for all initial and continuing calibration standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed on 11/13/07 at 19:26 on instrument MSBNA02, had two compounds with %Ds greater than the +/-15 %D acceptance criteria: indeno(1,2,3-cd)pyrene (+22%) and dibenz(a,h)anthracene (+26%). The detected results for indeno(1,2,3-cd)pyrene and dibenz(a,h)anthracene in sample 1065EX342[5.0] were qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. No further qualification was required.

METALS (6010B/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections A and B.

A. **ICP Serial Dilution**

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. A percent difference for antimony failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX343[5.0] at 49%. The results for antimony were qualified as estimated (J/UJ) in the associated samples.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, barium, copper, lead, and zinc failed the 75-125% project acceptance criteria in QC samples 1065EX343[5.0] MS/MSD

at 50%/50%, passing/143%, passing/309%, 220%/601%, and 179%/595%, respectively. The post-spike recoveries for copper, lead, and zinc passed, while the post-spike recoveries for antimony and barium failed low. The results for antimony in the associated project sample were qualified as estimated with a low bias (J-) and the detected results for barium, copper, lead, and zinc were qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

SDG 199248

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. No further qualification was required.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. No further qualification was required.

METALS (6010B/6020/7470A/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections A and B.

A. **ICP Serial Dilution**

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. Percent differences for barium, beryllium, chromium, cobalt, nickel, and zinc failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX367[4.0] at 13%, 33%, 13%, 19%, 17%, and 19%, respectively. The results for the analytes listed above were qualified as estimated (J/UJ) in the associated samples.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, barium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, and thallium failed the 75-125% project acceptance criteria in QC samples 1065EX367[4.0] MS/MSD at 38%/40%, 55%/71%, 73%/passing, 71%/passing, 46%/57%, passing/9%, 70%/passing, 68%/passing, 71%/passing, and 67%/69%, respectively. The post-spike recoveries passed for all elements except copper. The results for antimony,

barium, cadmium, chromium, cobalt, lead, molybdenum, nickel, selenium, and thallium in the associated project sample were qualified as estimated (J/UJ). The results for copper were qualified as estimated with a low bias (J-).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

SDG 199433

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. No further qualifications were required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. No further qualification was required.

SDG 200073

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. No further qualifications were required.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. No further qualifications were required.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. No further qualification was required.

METALS (6010B/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections A and B.

A. **ICP Serial Dilution**

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. Percent differences for antimony, beryllium, molybdenum, zinc, and mercury failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065SD100[5.5] at 26%, 21%, 15%, 11%, and 69%, respectively. The detected results for the analytes listed above were qualified as estimated (J) in sample 1065SD100[5.5].

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, cadmium, nickel, silver, and vanadium failed the 75-125% project acceptance criteria in QC samples 1065SD100[5.5] MS/MSD at 42%/43%, 21%/35%, 20%/49%, 71%/59%, and 268%/passing, respectively. The post-spike recoveries passed. The results for antimony, cadmium, nickel, silver, and vanadium in the associated project sample were qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

SDG 200520

VOLATILE ORGANIC COMPOUNDS (Benzene, Toluene, Ethylbenzene, and Total Xylenes) by GC (8021B)
Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)
Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. No further qualification was required.

PESTICIDES (8081A)
Overall, the data are usable as reported. No further qualification was required.

ORGANOPHOSPHORUS PESTICIDES (8141A)
Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections A and B.

A. **Initial Calibrations**
Initial calibration criteria were met for all calibration standards associated with the project samples, with the following exceptions:

1. The initial calibration analyzed on 10/30/07 on instrument GC26, front channel, had one compound with a %RSD greater than the +/-20% acceptance criteria: stirophos (26%). The result for stirophos in sample 1065BC402 A-D COMP was qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to initial calibration %RSD failures.

B. **Initial Calibration Verification and Continuing Calibrations**
Continuing calibration criteria were met for all initial and continuing calibration verification standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed on 1/16/08 at 22:51 on instrument GC26, front channel, had two compound with %Ds exceeding the +/-15% acceptance criteria: demeton-S (-24.2%) and naled (-15.9%). The non-detected results for demeton-S and naled in the associated sample were qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

CHLORINATED HERBICIDES (8151A)
Overall, the data are usable as reported. No further qualification was required.

METALS (6010B/7471A)
Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections A and B.

A. **ICP Serial Dilution**
All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. A percent difference for chromium failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065BC402 A-D COMP at 12%. The detected result for chromium was qualified as estimated (J) in the associated sample.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony and copper the 75-125% project acceptance criteria in QC samples 1065BC402 A-D COMP MS/MSD at 36%/45% and 365%/passing, respectively. The post-spike recoveries passed. The detected results for antimony and copper were qualified as estimated (J) in the associated sample.

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

SDG 200684

VOLATILE ORGANIC COMPOUNDS (Benzene, Toluene, Ethylbenzene, and Total Xylenes) by GC/MS (8260B)
Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)
Overall, the data are usable as reported. No further qualification was required.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. No further qualification was required.

METALS (6010B)
Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections A and B.

A. **ICP Serial Dilution**
All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. A percent difference for lead failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX301[8.5] at 30%. The results for lead were qualified as estimated (J) in the associated samples.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

B. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for lead failed the 75-125% project acceptance criteria in QC samples 1065EX301[8.5] MS/MSD at passing/254%. The post-spike recovery for lead passed. The detected results for lead in the associated project samples were qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

SDGs 201726, 201748, and 201749

VOLATILE ORGANIC COMPOUNDS (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections B, C, and H.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC431727 had detected levels of acetone and methylene chloride at 1.8 µg/Kg and 0.41 µg/Kg, respectively. The results for methylene chloride and naphthalene in the associated samples were changed to non-detect (U) since the values were less than ten times the blank amounts.

2. Aqueous method blank QC432699 had a detected level of sec-butylbenzene at 0.41 µg/L. Qualification was not required due to non-detected results in the associated samples.

See Table 2 of this report for a summary of qualifications due to method blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. Percent recoveries for the surrogate, dibromofluoromethane, failed the 78-126% laboratory acceptance criteria in sample 1065EX303[7.0] and 1065EX304[7.5] at

129% and 127%, respectively. A percent recovery for the surrogate, bromofluorobenzene, failed the 80-121% laboratory acceptance criteria in sample DUP030608 at 123%. Samples 1065EX[7.0] and DUP030608 were nondetect for the compounds associated with the failing surrogates and qualification was not required.

See Table 2 of this report for a summary of qualifications due to surrogate recovery failures.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Continuing Calibration**
Continuing calibration criteria were met for all CCV standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed 3/07/08 at 11:46 on instrument MSVOA12 had one compound with a %D exceeding the ±20% acceptance criteria: Freon 12 (-23%). The results for Freon 12 in the associated samples were qualified as estimated (UJ).
2. The CCV standard analyzed 3/13/08 at 10:37 on instrument MSVOA06 had three compounds with %Ds exceeding the ±20% acceptance criteria: Freon 12 (-40%), chloromethane (-26%), and bromomethane (-23%). The results for the compounds listed above in the associated sample were qualified as estimated (UJ).
3. The CCV standard analyzed 3/11/08 at 10:33 on instrument MSVOA11 had one compound with a %D exceeding the ±20% acceptance criteria: Freon 12 (-33%). The result for Freon 12 in the associated sample was qualified as estimated (UJ).

   See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

I. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

J. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

K. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blanks associated with this sample delivery group, with the following exceptions:

1. Toluene was detected in equipment rinsate blank 1065EX303RB304 at a concentration of 0.2 µg/L. The associated samples were non-detect for toluene and qualification was not required.
2. Chloroform was detected in trip blank TB030608 at a concentration of 0.1 µg/L. The associated samples were non-detect for chloroform and qualification was not required.

L. **Reporting Limits**

The laboratory reporting limits for VOCs in soil and water matrices met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the method detection limits (MDLs) and MDLs meet required limits.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in a reporting limit above the CUL for Benzene in sample DUP030608. Samples were J-flagged to the MDL and MDLs meet required limits.
3. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)
Overall, the data are usable as reported. Qualifications were required for the reason noted in Section H.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control

spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Continuing Calibration**
Continuing calibration criteria were met for all CCV standards associated with the project samples, with the following exception:

1. The CCV standard analyzed 3/07/08 at 10:26 on instrument MSBNA02 had one compound with a %D exceeding the ±20% acceptance criteria: indeno(1,2,3-cd)pyrene (+21%). The detected results for indeno(1,2,3-cd)pyrene in samples 1065EX303[7.0] and DUP030608 were qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

I. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

J. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

K. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank associated with this sample delivery group.

L. **Reporting Limits**
The laboratory reporting limits for PAHs in soil and water matrices met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)
Overall, the data are usable as reported. Qualifications were required for the reason noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC431847 had a detected level of gasoline at 0.11 mg/Kg. The results for gasoline in the associated samples were changed to non-detect (U) since those values were less than five times the blank amount.
2. Soil method blank QC432147 had a detected level of gasoline at 0.14 mg/Kg. The results for gasoline in the associated samples were changed to non-detect (U) since those values were less than five times the blank amount.
3. Aqueous method blank QC432968 had a detected level of gasoline at 14 µg/L. The results for gasoline in the associated samples were changed to non-detect (U) since those values were less than five times the blank amount.

See Table 2 of this report for a summary of qualifications due to method blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for gasoline failed the 65-135% project-required acceptance criteria in QC samples 1065EX303[7.0] MS/MSD at 0%/0%. Reanalysis confirmed the matrix effects. No action is taken based solely on MS/MSD recoveries.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

J. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blanks associated with this sample delivery group.

K. **Reporting Limits**

The laboratory reporting limits for gasoline in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. Qualification was required for the reason noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exception:

1. Aqueous method blank QC431974 had a detected level of diesel at 12 µg/L. The result for diesel in the associated sample was changed to non-detect (U) since that value was less than five times the blank amount.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

J. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank associated with this sample delivery group.

K. **Reporting Limits**
The laboratory reporting limits for diesel and fuel oil/motor oil in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7471A)
Overall, the data are usable as reported. Qualifications were required for the reasons in Sections B, E, and G.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC431682 had detected levels of antimony, chromium, cobalt, and zinc at 0.055 mg/Kg, 0.041 mg/Kg, 0.020 mg/Kg, and 0.037 mg/Kg, respectively. The results for antimony in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount. The results for chromium, cobalt, and zinc in the associated samples were greater than five times the blank amounts, and qualification was not required.
2. Soil method blank QC431869 had a detected level of cadmium at 0.0042 mg/Kg. The results for cadmium in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
3. Aqueous method blank QC432038 had a detected level of zinc at 1.1 µg/L. The results for zinc the associated sample were changed to non-detect (U) if those values were less than five times the blank amount.

See Table 2 of this report for a summary of qualifications due to method blank contamination.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, and zinc failed the 75-125% project QC criteria in QC samples 1065EX303[7.0] MS/MSD at 42/46%, passing/1760%, and passing/1431%, respectively. In addition, the RPDs for copper, lead, and zinc exceeded the 30% project-specific acceptance criteria at 164%, 37%, and 147%, respectively. Post-digest spike recoveries met the method-specific acceptance criteria of 75-125%. The results for antimony, copper, lead, and zinc in the associated project samples were qualified as estimated (J/UJ).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery and RPD failures.

F. **ICP Interference Check Standards**
All QC criteria were met for the ICP interference check standards associated with the project samples.

G. **ICP Serial Dilution**
All QC criteria were met for the ICP serial dilutions associated with the project samples.

H. **Initial and Continuing Calibrations**
All initial and continuing calibrations standards associated with the project samples met QC acceptance criteria.

I. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blanks associated with the project samples, with the following exceptions:

1. Barium and zinc were detected in equipment rinsate blank 1065EX303RB304 at concentrations of 0.2 µg/L and 0.97 µg/L, respectively. The results for barium and zinc in the associated samples were greater than five times the blank amounts, and qualification was not required. It should be noted that the result for zinc was previously changed to non-detect (U) in 1065EX303RB304 due to method blank contamination.

J. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group, with the following exceptions:

1. In field duplicates 1065EX303[7.0] and DUP0306, the RPD between the results for lead was greater than the 50% acceptance criteria at 86%.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the field duplicate pairs listed above may be due to the sample matrix, sampling or laboratory technique, or method defects. Since the effect of the quality of the data is not known, data is not qualified for field duplicate failure.

K. **Reporting Limits**

The laboratory reporting limits for metals in water and soil matrices met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SDG 202203

VOLATILE ORGANIC COMPOUNDS (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections B and H.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC434810 had a detected level of methylene chloride at 1.1 µg/Kg. The result for methylene chloride in the associated sample was changed to non-detect (U) since the value was less than ten times the blank amount.

See Table 2 of this report for a summary of qualifications due to method blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Continuing Calibration**
Continuing calibration criteria were met for all CCV standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed 3/27/08 at 09:33 on instrument MSVOA12 had eleven compounds with %Ds exceeding the ±20% acceptance criteria: trichlorofluoromethane (-31%), methyl tert-butyl ether (-21%), 2,2-dichloropropane (-27%), 1,1,1-trichloroethane (-21%), 1,2-dichloroethane (-38%), bromodichloromethane (-23%), trans-1,3-dichloropropene (-22%), 1,2,3-trichloropropane (-22%), 2-chlorotoluene (-21%), 1,2-dibromo-3-chloropropane (-43%), and hexachlorobutadiene (-28%). The results for the compounds listed above in the associated sample were qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

I. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

J. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

K. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

L. **Reporting Limits**
The laboratory reporting limits for VOCs in soil matrix met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the MDLs and MDLs meet required limits.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
3. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for acenaphthene and pyrene failed the laboratory in-house QC criteria in QC samples 1065EX315[5.0] MS/MSD at passing/253% and -46/1427%, respectively. In addition, the RPD for acenaphthene exceeded the 19% laboratory in-house QC limit at 103%. Organic data is not qualified based solely on the MS/MSD results.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Continuing Calibration**
Continuing calibration criteria were met for all CCV standards associated with the project samples.

I. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

J. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

K. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

L. **Reporting Limits**
The laboratory reporting limits for PAHs in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All

results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualifications were required for the reason noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC435616 had a detected level of gasoline at 0.039 mg/Kg. The result for gasoline in the associated sample was changed to non-detect (U) since that value was less than five times the blank amount.

See Table 2 of this report for a summary of qualifications due to method blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

J. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

K. **Reporting Limits**
The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

J. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

K. **Reporting Limits**
The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections E and G.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, lead, nickel, and zinc failed the 75-125% project QC criteria in QC samples 1065EX315[5.0] MS/MSD at 55/52%, 1254/641%, 143%/passing, 67/49%, and 923%/passing, respectively. In addition, the RPDs for copper, lead, and zinc exceeded the 30% project-specific acceptance criteria at 56%, 38%, and 104%, respectively. Post-digest spike recoveries met the method-specific acceptance criteria of 75-125% with the exception of nickel and zinc. The results for antimony, copper, lead, and zinc in the associated project sample were qualified as estimated (J/UJ) and the result for nickel was qualified as estimated with a low bias (J-).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery and RPD failures.

F. **ICP Interference Check Standards**
All QC criteria were met for the ICP interference check standards associated with the project samples.

G. **ICP Serial Dilution**
All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exception:

1. A percent difference for beryllium failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX315[5.0] at 19%. The detected result for chromium was qualified as estimated (J) in the associated sample.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

H. **Initial and Continuing Calibrations**
All initial and continuing calibrations standards associated with the project samples met QC acceptance criteria.

I. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

J. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

K. **Reporting Limits**
The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SDG 203210

VOLATILE ORGANIC COMPOUNDS (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections B and H.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC44136 had detected levels of methylene chloride and naphthalene at 1.4 µg/Kg and 0.36 µg/Kg, respectively. The results for methylene chloride in the associated samples were changed to non-detect (U) since those values were less than ten times the blank amount. The results for naphthalene were non-detect in the associated samples and qualification was not required.

See Table 2 of this report for a summary of qualifications due to method blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Continuing Calibration**
Continuing calibration criteria were met for all CCV standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed 5/11/08 at 15:23 on instrument MSVOA04 had one compound with a %D exceeding the ±20% acceptance criteria: dichlorodifluoromethane (Freon 12) (-25%). The results Freon 12 in the associated samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

I. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

J. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

K. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

L. **Reporting Limits**
The laboratory reporting limits for VOCs in soil matrix met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the MDLs and MDLs meet required limits.

2. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in reporting limits above the CUL for Benzene in all sample. Samples were J-flagged to the MDL and MDLs meet required limits.

3. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were required for the reason noted in Section H.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Continuing Calibration**
Continuing calibration criteria were met for all ICV/CCV standards associated with the project samples, with the following exceptions:

1. The ICV standard analyzed 5/7/08 at 20:08 on instrument MSBNA03 had two compounds with %Ds exceeding the ±20% acceptance criteria: indeno(1,2,3-cd)pyrene (26%) and dibenz(a,h)anthracene (22%). The detected result for indeno(1,2,3-cd)pyrene in sample 1065EX368[8.0] was qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

I. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

J. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group, with the following exceptions:

1. In field duplicates 1065EX370[8.0] and DUP050908, absolute differences between the results were greater than two times the reporting limit for several target compounds. The results for fluoranthene, pyrene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene in the original sample were 17 µg/Kg, 23 µg/Kg, 16 µg/Kg, 41 µg/Kg, 19 µg/Kg, 27 µg/Kg, and 41 µg/Kg, respectively. The duplicate results were non-detect.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results in the field duplicate pairs may be due to the sample matrix, sampling or laboratory technique, or method defects. Since the effect on the quality of data is not known, data is not qualified for field duplicate failures.

K. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

L. **Reporting Limits**
The laboratory reporting limits for PAHs in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)
Overall, the data are usable as reported. Qualifications were required for the reason noted in Sections B and C.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC441086 had a detected level of gasoline at 0.015 mg/Kg. The results for gasoline in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.

See Table 2 of this report for a summary of qualifications due to method blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. A percent recovery of 144% for the surrogate bromofluorobenzene was observed in sample 1065EX369[8.0]. The detected result was qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to surrogate recovery failures.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

J. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

K. **Reporting Limits**
The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

J. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

K. **Reporting Limits**
The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7471A)
Overall, the data are usable as reported. Qualifications were required for the reasons in Sections E and G.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC441350 had detected levels of selenium and zinc at 0.13 mg/Kg and 0.11 mg/Kg, respectively. The results for selenium and zinc in the associated samples were greater than five times the blank amounts or non-detect, and qualification was not required.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. A percent recovery for antimony failed the 75-125% project QC criteria in QC samples 1065EX365[8.0] MS/MSD at 65/67%. The post-digest spike recovery for antimony met the method-specific acceptance criteria of 75-125%. The results for antimony in the associated project samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

F. **ICP Interference Check Standards**
All QC criteria were met for the ICP interference check standards associated with the project samples.

G. **ICP Serial Dilution**
All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exception:

1. Percent differences for beryllium and lead failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX365[8.0] at 23% and 12%, respectively. The results for beryllium and lead were qualified as estimated (J) in the associated samples.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

H. **Initial and Continuing Calibrations**
All initial and continuing calibrations standards associated with the project samples met QC acceptance criteria.

I. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

J. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group, with the following exception:

1. In field duplicates 1065EX370[8.0] and DUP050908, the absolute difference between the results for mercury were greater than two times the reporting limit of 0.028 mg/Kg. The original result for mercury was 0.43 mg/Kg and the duplicate result was 0.012 mg/Kg.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results in the field duplicate pairs may be due to the sample matrix, sampling or laboratory technique, or method defects. Since the effect on the quality of data is not known, data is not qualified for field duplicate failures.

K. **Reporting Limits**
The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SDG 203251

VOLATILE ORGANIC COMPOUNDS (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections B and H.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC441448 had a detected level of methylene chloride at 1.4 µg/Kg. The result for methylene chloride in the associated sample was changed to non-detect (U) since the value was less than ten times the blank amount.

See Table 2 of this report for a summary of qualifications due to method blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control

spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Continuing Calibration**
Continuing calibration criteria were met for all CCV standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed 5/13/08 at 16:27 on instrument MSVOA04 had three compounds with %Ds exceeding the ±20% acceptance criteria: Freon 113 (-22%), methylene chloride (36%), and 1,2-dichloroethane (-21%). The results for Freon 113 and 1,2-dichloroethane in the associated sample were qualified as estimated (UJ). The sample results for methylene chloride were previously changed to non-detect (U) due to method blank contamination and no further qualification was required.

   See Table 2 of this report for a summary of qualifications due to CCV standard %D failures.

I. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

J. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

K. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

L. **Reporting Limits**
The laboratory reporting limits for VOCs in soil matrix met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the MDLs and MDLs meet required limits.

2. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

3. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged “J” by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Continuing Calibration**
Continuing calibration criteria were met for all CCV standards associated with the project samples.

I. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

J. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

K. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

L. **Reporting Limits**
The laboratory reporting limits for PAHs in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable,

due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualifications were required for the reason noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC441677 had a detected level of gasoline at 0.075 mg/Kg. The result for gasoline in the associated sample was changed to non-detect (U) since that value was less than five times the blank amount.

See Table 2 of this report for a summary of qualifications due to method blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

J. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

K. **Reporting Limits**
The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

J. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

K. **Reporting Limits**
The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections E and G.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC441819 had detected levels of beryllium, copper, and thallium at 0.0064 mg/Kg, 0.06 mg/Kg, and 0.051 mg/Kg, respectively. The results for beryllium, copper and thallium in the associated sample were greater than five times the blank amounts and qualification was not required.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**

QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**

Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. A percent recovery for antimony failed the 75-125% project QC criteria in QC samples 1065EX371[8.0] MS/MSD at 65/61%. The post-digest spike recovery met the method-specific acceptance criteria of 75-125%. The result for antimony in the associated project sample was qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

F. **ICP Interference Check Standards**

All QC criteria were met for the ICP interference check standards associated with the project samples.

G. **ICP Serial Dilution**

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exception:

1. Percent differences for antimony, barium, beryllium, chromium, cobalt, copper, nickel, and vanadium failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX371[8.0] at 68%, 16%, 24%, 16%, 18%, 11%,

17%, and 15%, respectively. The detected results for the elements listed above were qualified as estimated (J) in the associated sample.

See Table 2 of this report for a summary of qualifications due to serial dilution outliers.

H. **Initial and Continuing Calibrations**
All initial and continuing calibrations standards associated with the project samples met QC acceptance criteria.

I. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

J. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

K. **Reporting Limits**
The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 2 summarizes the additional data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level III data validation, results are considered valid and usable for project purposes.

Review performed by:_____
Mary Hart
Project Database Analyst

Reviewed by:_____
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Samples Collected
Building 1065
10/15/07 through 05/13/08

Field Sample ID	C&T Lab ID	CEL Lab ID	Requested Test Method
1065BC400	198380-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 6020, 7471A
1065BC401	198380-002		EPA 8260B, 8270C-SIM, 8015B, 6020, 7471A
1065EX350[4.0]	198818-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
DUP103007	198818-002		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX351[4.0]	198818-003		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX352[4.0]	198818-004		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX353[4.0]	198818-005		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX355[4.0]	198818-006		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX356[4.0]	198818-007		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX353RB354	198818-008		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7470A
TB103007	198818-009		EPA 8260B, 8015B
1065EX354[4.0]	198818-010		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065DE210	198879-001		EPA 6010B/7470A, 150.1, 1664A, 420.1, SM4500CN-E, SM4500S2-D
DUP103107	198879-002		EPA 6010B/7470A, 150.1, 1664A, 420.1, SM4500CN-E, SM4500S2-D
1065EX357[4.0]	198880-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX358[4.0]	198880-002		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
TB103107	198880-003		EPA 8260B, 8015B
1065EX357RB358	198880-004		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7470A
1065EX359[4.0]	198903-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX360[4.0]	198903-002		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
DUP110107	198903-003		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX360RB361	198903-004		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
TB110107	198903-005		EPA 8260B, 8015B
1065EX361[4.5]	198903-006		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX362[5.5]	198903-007		EPA 8260B, 8270C-SIM, 8015B, 6020, 7471A
1065EX363[8.0]	199042-003		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX364[6.0]	199042-004		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX365[6.5]	199042-005		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX341[7.0]	199163-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
DUP111207	199163-002		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX342[5.0]	199163-003		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX343[5.0]	199163-004		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX344[5.0]	199163-005		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX345[5.0]	199163-006		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A

Table 1. Summary of Samples Collected
Building 1065
10/15/07 through 05/13/08

Field Sample ID	C&T Lab ID	CEL Lab ID	Requested Test Method
1065EX367[4.0]	199248-002		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX346[5.0]	199433-001		EPA 8270C-SIM, 8015B
1065EX347[5.0]	199433-002		EPA 8270C-SIM, 8015B
1065EX348[5.0]	199433-003		EPA 8270C-SIM, 8015B
1065SD100[5.5]	200073-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065BC402 A-D COMP	200520-005	08-01-0945-1-A	EPA 8021, 8081A, 8141A, 8151A, 8015B, 6010B, 7471A
1065EX301[8.5]	200684-001		EPA 8260B, 8015B, 6010B
1065EX302[8.5]	200684-002		EPA 8260B, 8015B, 6010B
1065EX303[7.0]	201726-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX304[7.5]	201726-002		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
DUP030608	201726-003		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX305[6.0]	201748-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX306[5.0]	201748-002		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX303RB304	201749-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7470A
TB030608	201749-002		EPA 8260B, 8015B
1065EX315[5.0]	202203-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX368[8.0]	203210-001		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX369[8.0]	203210-002		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX370[8.0]	203210-003		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
DUP050908	203210-004		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX371[8.0]	203251-003		EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A

Checked: SRG

Approved: MJH

Table 2
Summary of Level III Data Validation Qualifiers
10/15/07 through 05/13/08

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065BC401	198380-002	6020	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065BC401	198380-002	6020	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
1065BC401	198380-002	6020	Molybdenum	7439-98-7	J	Matrix spike recovery exceeded acceptance criteria.
1065BC401	198380-002	6020	Zinc	7440-66-6	J	Matrix spike recovery exceeded acceptance criteria.
1065EX350[4.0]	198818-001	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX350[4.0]	198818-001	6010B	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
1065EX350[4.0]	198818-001	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX350[4.0]	198818-001	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
1065EX350[4.0]	198818-001	6010B	Cobalt	7440-48-4	J	Serial dilution %D outside acceptance criteria
1065EX350[4.0]	198818-001	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX350[4.0]	198818-001	6010B	Lead	7439-92-1	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX350[4.0]	198818-001	6010B	Nickel	7440-02-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX350[4.0]	198818-001	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria
1065EX350[4.0]	198818-001	8260B	Trichlorofluoromethane	75-69-4	UJ	Continuing calibration verification percent difference failure
DUP103007	198818-002	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
DUP103007	198818-002	6010B	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
DUP103007	198818-002	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
DUP103007	198818-002	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
DUP103007	198818-002	6010B	Cobalt	7440-48-4	J	Serial dilution %D outside acceptance criteria
DUP103007	198818-002	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
DUP103007	198818-002	6010B	Lead	7439-92-1	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
DUP103007	198818-002	6010B	Nickel	7440-02-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
DUP103007	198818-002	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria
1065EX351[4.0]	198818-003	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX351[4.0]	198818-003	6010B	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
1065EX351[4.0]	198818-003	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX351[4.0]	198818-003	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
1065EX351[4.0]	198818-003	6010B	Cobalt	7440-48-4	J	Serial dilution %D outside acceptance criteria
1065EX351[4.0]	198818-003	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX351[4.0]	198818-003	6010B	Lead	7439-92-1	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX351[4.0]	198818-003	6010B	Nickel	7440-02-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX351[4.0]	198818-003	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria
1065EX352[4.0]	198818-004	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX352[4.0]	198818-004	6010B	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
1065EX352[4.0]	198818-004	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX352[4.0]	198818-004	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
1065EX352[4.0]	198818-004	6010B	Cobalt	7440-48-4	J	Serial dilution %D outside acceptance criteria
1065EX352[4.0]	198818-004	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX352[4.0]	198818-004	6010B	Lead	7439-92-1	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX352[4.0]	198818-004	6010B	Nickel	7440-02-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX352[4.0]	198818-004	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria

Table 2
Summary of Level III Data Validation Qualifiers
10/15/07 through 05/13/08

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX352[4.0]	198818-004	8260B	Trichlorofluoromethane	75-69-4	UJ	Continuing calibration verification percent difference failure
1065EX353[4.0]	198818-005	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery exceeded acceptance criteria.
1065EX353[4.0]	198818-005	6010B	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
1065EX353[4.0]	198818-005	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX353[4.0]	198818-005	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
1065EX353[4.0]	198818-005	6010B	Cobalt	7440-48-4	J	Serial dilution %D outside acceptance criteria
1065EX353[4.0]	198818-005	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX353[4.0]	198818-005	6010B	Lead	7439-92-1	UJ	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX353[4.0]	198818-005	6010B	Nickel	7440-02-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX353[4.0]	198818-005	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria
1065EX355[4.0]	198818-006	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX355[4.0]	198818-006	6010B	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
1065EX355[4.0]	198818-006	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX355[4.0]	198818-006	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
1065EX355[4.0]	198818-006	6010B	Cobalt	7440-48-4	J	Serial dilution %D outside acceptance criteria
1065EX355[4.0]	198818-006	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX355[4.0]	198818-006	6010B	Lead	7439-92-1	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX355[4.0]	198818-006	6010B	Nickel	7440-02-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX355[4.0]	198818-006	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria
1065EX355[4.0]	198818-006	8260B	Trichlorofluoromethane	75-69-4	UJ	Continuing calibration verification percent difference failure
1065EX356[4.0]	198818-007	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX356[4.0]	198818-007	6010B	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
1065EX356[4.0]	198818-007	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX356[4.0]	198818-007	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
1065EX356[4.0]	198818-007	6010B	Cobalt	7440-48-4	J	Serial dilution %D outside acceptance criteria
1065EX356[4.0]	198818-007	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX356[4.0]	198818-007	6010B	Lead	7439-92-1	UJ	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX356[4.0]	198818-007	6010B	Nickel	7440-02-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX356[4.0]	198818-007	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria
1065EX353RB354	198818-008	8260B	Bromomethane	74-83-9	UJ	Continuing calibration verification percent difference failure
1065EX353RB354	198818-008	8260B	Carbon disulfide	75-15-0	UJ	Continuing calibration verification percent difference failure
1065EX353RB354	198818-008	8260B	Vinyl acetate	108-05-4	UJ	Initial calibration relative standard deviation failure
TB103007	198818-009	8260B	1,2,4-Trichlorobenzene	120-82-1	UJ	Continuing calibration verification percent difference failure
TB103007	198818-009	8260B	Naphthalene	91-20-3	UJ	Continuing calibration verification percent difference failure
TB103007	198818-009	8260B	Vinyl acetate	108-05-4	UJ	Continuing calibration verification percent difference failure
1065EX354[4.0]	198818-010	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX354[4.0]	198818-010	6010B	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
1065EX354[4.0]	198818-010	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX354[4.0]	198818-010	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
1065EX354[4.0]	198818-010	6010B	Cobalt	7440-48-4	J	Serial dilution %D outside acceptance criteria
1065EX354[4.0]	198818-010	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.

Table 2
Summary of Level III Data Validation Qualifiers
10/15/07 through 05/13/08

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX354[4.0]	198818-010	6010B	Lead	7439-92-1	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX354[4.0]	198818-010	6010B	Nickel	7440-02-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX354[4.0]	198818-010	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria
1065EX357[4.0]	198880-001	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX357[4.0]	198880-001	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX357[4.0]	198880-001	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX357[4.0]	198880-001	6010B	Lead	7439-92-1	J	Matrix spike recovery exceeded acceptance criteria.
1065EX357[4.0]	198880-001	6010B	Zinc	7440-66-6	J	Matrix spike recovery exceeded acceptance criteria.
1065EX357[4.0]	198880-001	8260B	Isopropylbenzene	98-82-8	J	Continuing calibration verification percent difference failure
1065EX357[4.0]	198880-001	8260B	n-Propylbenzene	103-65-1	J	Continuing calibration verification percent difference failure
1065EX358[4.0]	198880-002	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX358[4.0]	198880-002	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX358[4.0]	198880-002	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX358[4.0]	198880-002	6010B	Zinc	7440-66-6	J	Matrix spike recovery exceeded acceptance criteria.
1065EX358[4.0]	198880-002	8260B	Trichlorofluoromethane	75-69-4	UJ	Continuing calibration verification percent difference failure
1065EX359[4.0]	198903-001	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX359[4.0]	198903-001	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	6010B	Lead	7439-92-1	J	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	6010B	Zinc	7440-66-6	J	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	7470A	Mercury	7439-97-6	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	8260B	Naphthalene	91-20-3	UJ	Continuing calibration verification percent difference failure
1065EX360[4.0]	198903-002	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX360[4.0]	198903-002	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	6010B	Lead	7439-92-1	J	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	6010B	Zinc	7440-66-6	J	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	7470A	Mercury	7439-97-6	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	8260B	Naphthalene	91-20-3	UJ	Continuing calibration verification percent difference failure
DUP110107	198903-003	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
DUP110107	198903-003	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	6010B	Lead	7439-92-1	J	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	6010B	Zinc	7440-66-6	J	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	7470A	Mercury	7439-97-6	J-	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	8260B	Naphthalene	91-20-3	UJ	Continuing calibration verification percent difference failure
1065EX361[4.5]	198903-006	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX361[4.5]	198903-006	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX361[4.5]	198903-006	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX361[4.5]	198903-006	6010B	Lead	7439-92-1	J	Matrix spike recovery exceeded acceptance criteria.
1065EX361[4.5]	198903-006	6010B	Zinc	7440-66-6	J	Matrix spike recovery exceeded acceptance criteria.

Table 2
Summary of Level III Data Validation Qualifiers
10/15/07 through 05/13/08

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX361[4.5]	198903-006	7470A	Mercury	7439-97-6	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX361[4.5]	198903-006	8260B	Naphthalene	91-20-3	UJ	Continuing calibration verification percent difference failure
1065EX362[5.5]	198903-007	8260B	1,2-Dibromo-3-chloropropane	96-12-8	UJ	Continuing calibration verification percent difference failure
1065EX363[8.0]	199042-003	6010B	Antimony	7440-36-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX363[8.0]	199042-003	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX363[8.0]	199042-003	7470A	Mercury	7439-97-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX363[8.0]	199042-003	8260B	1,1,1-Trichloroethane	71-55-6	UJ	Continuing calibration verification percent difference failure
1065EX363[8.0]	199042-003	8260B	1,2-Dichloroethane	107-06-2	UJ	Continuing calibration verification percent difference failure
1065EX363[8.0]	199042-003	8260B	Carbon tetrachloride	56-23-5	UJ	Continuing calibration verification percent difference failure
1065EX363[8.0]	199042-003	8260B	Dibromochloromethane	124-48-1	UJ	Continuing calibration verification percent difference failure
1065EX363[8.0]	199042-003	8260B	Tetrachloroethene	127-18-4	UJ	Continuing calibration verification percent difference failure
1065EX363[8.0]	199042-003	8260B	Trichlorofluoromethane	75-69-4	UJ	Continuing calibration verification percent difference failure
1065EX364[6.0]	199042-004	6010B	Antimony	7440-36-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX364[6.0]	199042-004	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX364[6.0]	199042-004	7470A	Mercury	7439-97-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX364[6.0]	199042-004	8260B	1,1,1-Trichloroethane	71-55-6	UJ	Continuing calibration verification percent difference failure
1065EX364[6.0]	199042-004	8260B	1,2-Dichloroethane	107-06-2	UJ	Continuing calibration verification percent difference failure
1065EX364[6.0]	199042-004	8260B	Carbon tetrachloride	56-23-5	UJ	Continuing calibration verification percent difference failure
1065EX364[6.0]	199042-004	8260B	Dibromochloromethane	124-48-1	UJ	Continuing calibration verification percent difference failure
1065EX364[6.0]	199042-004	8260B	Tetrachloroethene	127-18-4	UJ	Continuing calibration verification percent difference failure
1065EX364[6.0]	199042-004	8260B	Trichlorofluoromethane	75-69-4	UJ	Continuing calibration verification percent difference failure
1065EX365[6.5]	199042-005	6010B	Antimony	7440-36-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX365[6.5]	199042-005	6010B	Copper	7440-50-8	J	Matrix spike recovery exceeded acceptance criteria.
1065EX365[6.5]	199042-005	7470A	Mercury	7439-97-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX365[6.5]	199042-005	8260B	1,1,1-Trichloroethane	71-55-6	UJ	Continuing calibration verification percent difference failure
1065EX365[6.5]	199042-005	8260B	1,2-Dichloroethane	107-06-2	UJ	Continuing calibration verification percent difference failure
1065EX365[6.5]	199042-005	8260B	Carbon tetrachloride	56-23-5	UJ	Continuing calibration verification percent difference failure
1065EX365[6.5]	199042-005	8260B	Dibromochloromethane	124-48-1	UJ	Continuing calibration verification percent difference failure
1065EX365[6.5]	199042-005	8260B	Tetrachloroethene	127-18-4	UJ	Continuing calibration verification percent difference failure
1065EX365[6.5]	199042-005	8260B	Trichlorofluoromethane	75-69-4	UJ	Continuing calibration verification percent difference failure
1065EX341[7.0]	199163-001	6010B	Antimony	7440-36-0	J-	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX341[7.0]	199163-001	6010B	Barium	7440-39-3	J	Matrix spike recovery exceeded acceptance criteria.
1065EX341[7.0]	199163-001	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX341[7.0]	199163-001	6010B	Lead	7439-92-1	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX341[7.0]	199163-001	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX341[7.0]	199163-001	8260B	Freon 113	76-13-1	UJ	Continuing calibration verification percent difference failure
DUP111207	199163-002	6010B	Antimony	7440-36-0	J-	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
DUP111207	199163-002	6010B	Barium	7440-39-3	J	Matrix spike recovery exceeded acceptance criteria.
DUP111207	199163-002	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
DUP111207	199163-002	6010B	Lead	7439-92-1	J	Matrix spike recovery and RPD exceeded acceptance criteria.
DUP111207	199163-002	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.

Table 2
Summary of Level III Data Validation Qualifiers
10/15/07 through 05/13/08

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
DUP111207	199163-002	8260B	Freon 113	76-13-1	UJ	Continuing calibration verification percent difference failure
1065EX342[5.0]	199163-003	6010B	Antimony	7440-36-0	J-	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX342[5.0]	199163-003	6010B	Barium	7440-39-3	J	Matrix spike recovery exceeded acceptance criteria.
1065EX342[5.0]	199163-003	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX342[5.0]	199163-003	6010B	Lead	7439-92-1	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX342[5.0]	199163-003	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX342[5.0]	199163-003	8260B	Freon 113	76-13-1	UJ	Continuing calibration verification percent difference failure
1065EX342[5.0]	199163-003	8270SIM	Dibenzo(a,h)anthracene	53-70-3	J	Continuing calibration verification percent difference failure
1065EX342[5.0]	199163-003	8270SIM	Indeno(1,2,3-cd)pyrene	193-39-5	J	Continuing calibration verification percent difference failure
1065EX343[5.0]	199163-004	6010B	Antimony	7440-36-0	J-	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX343[5.0]	199163-004	6010B	Barium	7440-39-3	J	Matrix spike recovery exceeded acceptance criteria.
1065EX343[5.0]	199163-004	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX343[5.0]	199163-004	6010B	Lead	7439-92-1	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX343[5.0]	199163-004	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX344[5.0]	199163-005	6010B	Antimony	7440-36-0	J-	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX344[5.0]	199163-005	6010B	Barium	7440-39-3	J	Matrix spike recovery exceeded acceptance criteria.
1065EX344[5.0]	199163-005	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX344[5.0]	199163-005	6010B	Lead	7439-92-1	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX344[5.0]	199163-005	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX344[5.0]	199163-005	8260B	Freon 113	76-13-1	UJ	Continuing calibration verification percent difference failure
1065EX345[5.0]	199163-006	6010B	Antimony	7440-36-0	J-	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX345[5.0]	199163-006	6010B	Barium	7440-39-3	J	Matrix spike recovery exceeded acceptance criteria.
1065EX345[5.0]	199163-006	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX345[5.0]	199163-006	6010B	Lead	7439-92-1	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX345[5.0]	199163-006	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX345[5.0]	199163-006	8260B	Freon 113	76-13-1	UJ	Continuing calibration verification percent difference failure
1065EX367[4.0]	199248-002	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Barium	7440-39-3	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX367[4.0]	199248-002	6010B	Cadmium	7440-43-9	J	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Chromium	7440-47-3	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Cobalt	7440-48-4	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Copper	7440-50-8	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Lead	7439-92-1	UJ	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Nickel	7440-02-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Selenium	7782-49-2	J	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Thallium	7440-28-0	UJ	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria
1065SD100[5.5]	200073-001	6010B	Antimony	7440-36-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065SD100[5.5]	200073-001	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065SD100[5.5]	200073-001	6010B	Cadmium	7440-43-9	J	Matrix spike recovery exceeded acceptance criteria.

Table 2
Summary of Level III Data Validation Qualifiers
10/15/07 through 05/13/08

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065SD100[5.5]	200073-001	6010B	Molybdenum	7439-98-7	J	Serial dilution %D outside acceptance criteria
1065SD100[5.5]	200073-001	6010B	Nickel	7440-02-0	J	Matrix spike recovery exceeded acceptance criteria.
1065SD100[5.5]	200073-001	6010B	Silver	7440-22-4	J	Matrix spike recovery exceeded acceptance criteria.
1065SD100[5.5]	200073-001	6010B	Vanadium	7440-62-2	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065SD100[5.5]	200073-001	6010B	Zinc	7440-66-6	J	Serial dilution %D outside acceptance criteria
1065SD100[5.5]	200073-001	7470A	Mercury	7439-97-6	J	Serial dilution %D outside acceptance criteria
1065BC402 A-D COMP	200520-005	6010B	Antimony	7440-36-0	J	Matrix spike recovery exceeded acceptance criteria.
1065BC402 A-D COMP	200520-005	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
1065BC402 A-D COMP	200520-005	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065BC402 A-D COMP	200520-005	8141A	Demeton-S	126-75-0	UJ	Continuing calibration verification percent difference failure
1065BC402 A-D COMP	200520-005	8141A	Naled	300-76-5	UJ	Continuing calibration verification percent difference failure
1065BC402 A-D COMP	200520-005	8141A	Stirophos	961-11-5	UJ	Initial calibration relative standard deviation failure
1065EX301[8.5]	200684-001	6010B	Lead	7439-92-1	J	Matrix spike %R and RPD and serial dilution %D exceeded acceptance criteria.
1065EX302[8.5]	200684-002	6010B	Lead	7439-92-1	J	Matrix spike %R and RPD and serial dilution %D exceeded acceptance criteria.
1065EX303[7.0]	201726-001	6010B	Antimony	7440-36-0	UJ	Blank contamination; Matrix spike recovery exceeded acceptance criteria
1065EX303[7.0]	201726-001	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX303[7.0]	201726-001	6010B	Lead	7439-92-1	J	Matrix spike RPD exceeded acceptance criteria.
1065EX303[7.0]	201726-001	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX303[7.0]	201726-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX303[7.0]	201726-001	8270SIM	Indeno(1,2,3-cd)pyrene	193-39-5	J	Continuing calibration verification percent difference failure
1065EX304[7.5]	201726-002	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery exceeded acceptance criteria.
1065EX304[7.5]	201726-002	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX304[7.5]	201726-002	6010B	Lead	7439-92-1	J	Matrix spike RPD exceeded acceptance criteria.
1065EX304[7.5]	201726-002	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX304[7.5]	201726-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX304[7.5]	201726-002	8260B	Acetone	67-64-1	J	Surrogate recovery was outside control limits.
DUP030608	201726-003	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery exceeded acceptance criteria.
DUP030608	201726-003	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
DUP030608	201726-003	6010B	Lead	7439-92-1	J	Matrix spike RPD exceeded acceptance criteria.
DUP030608	201726-003	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.
DUP030608	201726-003	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
DUP030608	201726-003	8270SIM	Indeno(1,2,3-cd)pyrene	193-39-5	J	Continuing calibration verification percent difference failure
1065EX305[6.0]	201748-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX305[6.0]	201748-001	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX305[6.0]	201748-001	8260B	Dichlorodifluoromethane	75-71-8	UJ	Continuing calibration verification percent difference failure
1065EX305[6.0]	201748-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX306[6.0]	201748-002	6010B	Cadmium	7440-43-9	U	Blank contamination.
1065EX306[6.0]	201748-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX306[6.0]	201748-002	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX306[6.0]	201748-002	8260B	Dichlorodifluoromethane	75-71-8	UJ	Continuing calibration verification percent difference failure
1065EX306[6.0]	201748-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.

Table 2
Summary of Level III Data Validation Qualifiers
10/15/07 through 05/13/08

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX303RB304	201749-001	6010B	Zinc	7440-66-6	U	Blank contamination.
1065EX303RB304	201749-001	8015M	Diesel C12-C24 (SGCU)	S-FOC12C24	U	Blank contamination.
1065EX303RB304	201749-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX303RB304	201749-001	8260B	Bromomethane	74-83-9	UJ	Continuing calibration verification percent difference failure
1065EX303RB304	201749-001	8260B	Chloromethane	74-87-3	UJ	Continuing calibration verification percent difference failure
1065EX303RB304	201749-001	8260B	Dichlorodifluoromethane	75-71-8	UJ	Continuing calibration verification percent difference failure
TB030608	201749-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
TB030608	201749-002	8260B	Dichlorodifluoromethane	75-71-8	UJ	Continuing calibration verification percent difference failure
1065EX315[5.0]	202203-001	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery exceeded acceptance criteria.
1065EX315[5.0]	202203-001	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX315[5.0]	202203-001	6010B	Copper	7440-50-8	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX315[5.0]	202203-001	6010B	Lead	7439-92-1	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX315[5.0]	202203-001	6010B	Nickel	7440-02-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX315[5.0]	202203-001	6010B	Zinc	7440-66-6	J	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX315[5.0]	202203-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX315[5.0]	202203-001	8260B	1,1,1-Trichloroethane	71-55-6	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	1,2,3-Trichloropropane	96-18-4	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	1,2-Dibromo-3-chloropropane	96-12-8	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	1,2-Dichloroethane	107-06-2	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	2,2-Dichloropropane	594-20-7	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	2-Chlorotoluene	95-49-8	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	Bromodichloromethane	75-27-4	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	Hexachlorobutadiene	87-68-3	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX315[5.0]	202203-001	8260B	Methyl-tert-butyl ether	1634-04-4	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	trans-1,3-Dichloropropene	10061-02-6	UJ	Continuing calibration verification percent difference failure.
1065EX315[5.0]	202203-001	8260B	Trichlorofluoromethane	75-69-4	UJ	Continuing calibration verification percent difference failure.
1065EX368[8.0]	203210-001	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery outside acceptance criteria.
1065EX368[8.0]	203210-001	6010B	Beryllium	7440-41-7	J	Serial dilution percent difference outside acceptance criteria.
1065EX368[8.0]	203210-001	6010B	Lead	7439-92-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX368[8.0]	203210-001	8260B	Dichlorodifluoromethane	75-71-8	UJ	Associated initial/continuing calibration showed elevated %D for compound.
1065EX368[8.0]	203210-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX368[8.0]	203210-001	8270SIM	Indeno(1,2,3-cd)pyrene	193-39-5	J	Associated initial/continuing calibration showed elevated %D for compound.
1065EX369[8.0]	203210-002	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery outside acceptance criteria.
1065EX369[8.0]	203210-002	6010B	Beryllium	7440-41-7	J	Serial dilution percent difference outside acceptance criteria.
1065EX369[8.0]	203210-002	6010B	Lead	7439-92-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX369[8.0]	203210-002	8260B	Dichlorodifluoromethane	75-71-8	UJ	Associated initial/continuing calibration showed elevated %D for compound.
1065EX369[8.0]	203210-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX369[8.0]	203210-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX370[8.0]	203210-003	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery outside acceptance criteria.
1065EX370[8.0]	203210-003	6010B	Beryllium	7440-41-7	J	Serial dilution percent difference outside acceptance criteria.

Table 2
Summary of Level III Data Validation Qualifiers
10/15/07 through 05/13/08

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX370[8.0]	203210-003	6010B	Lead	7439-92-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX370[8.0]	203210-003	8260B	Dichlorodifluoromethane	75-71-8	UJ	Associated initial/continuing calibration showed elevated %D for compound.
1065EX370[8.0]	203210-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX370[8.0]	203210-003	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
DUP050908	203210-004	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery outside acceptance criteria.
DUP050908	203210-004	6010B	Beryllium	7440-41-7	J	Serial dilution percent difference outside acceptance criteria.
DUP050908	203210-004	6010B	Lead	7439-92-1	J	Serial dilution percent difference outside acceptance criteria.
DUP050908	203210-004	8260B	Dichlorodifluoromethane	75-71-8	UJ	Associated initial/continuing calibration showed elevated %D for compound.
DUP050908	203210-004	8260B	Methylene chloride	75-09-2	U	Blank contamination.
DUP050908	203210-004	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX371[8.0]	203251-003	6010B	Antimony	7440-36-0	J	Matrix spike %R and serial dilution %D exceeded acceptance criteria.
1065EX371[8.0]	203251-003	6010B	Barium	7440-39-3	J	Serial dilution %D outside acceptance criteria
1065EX371[8.0]	203251-003	6010B	Beryllium	7440-41-7	J	Serial dilution %D outside acceptance criteria
1065EX371[8.0]	203251-003	6010B	Chromium	7440-47-3	J	Serial dilution %D outside acceptance criteria
1065EX371[8.0]	203251-003	6010B	Cobalt	7440-48-4	J	Serial dilution %D outside acceptance criteria
1065EX371[8.0]	203251-003	6010B	Copper	7440-50-8	J	Serial dilution %D outside acceptance criteria
1065EX371[8.0]	203251-003	6010B	Nickel	7440-02-0	J	Serial dilution %D outside acceptance criteria
1065EX371[8.0]	203251-003	6010B	Vanadium	7440-62-2	J	Serial dilution %D outside acceptance criteria
1065EX371[8.0]	203251-003	8260B	Freon 113	76-13-1	UJ	Associated continuing calibration showed elevated %D for compound.
1065EX371[8.0]	203251-003	8260B	1,2-Dichloroethane	107-06-2	UJ	Associated continuing calibration showed elevated %D for compound.
1065EX371[8.0]	203251-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX371[8.0]	203251-003	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.

%D : Percent Difference
%R : Percent Recovery
RPD: Relative Percent Difference

Checked: SRG

Approved: MJH

Checked by_____

Approved by _____

Level II Data Validation Reports

MACTEC

DATE: October 26, 2007
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – October 15, 2007 Backfill Confirmation Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 198380

SAMPLING DATE: 10/15/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065BC400	198380-001	EPA 8260B, 8270C-SIM, 8015B, 6010B, 6020, 7471A
1065BC401	198380-002	EPA 8260B, 8270C-SIM, 8015B, 6020, 7471A

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)- BTXE

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil matrix met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC411433 had a detected level of naphthalene at 1.2 µg/Kg. The result for naphthalene in the associated sample was greater than five times the amount found in the blank and qualification was not required.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exception:

1. The percent recoveries for acenaphthene and pyrene failed the in-house QC limits in QC sample 198257-006MSD at 21% and -10%, respectively. The parent sample was not related to the project samples and qualification of project samples was not required (Batch 130758). It should be noted that surrogate recoveries in QC sample 198257-006MSD were less than the in-house QC limits indicating extraction problems.
2. The relative percent differences (RPDs) for acenaphthene and pyrene failed the in-house QC limits in QC samples 198257-006MS/MSD at 124% and 109%, respectively. The parent sample was not related to the project samples and qualification of project samples was not required (Batch 130758).

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for PAHs soil matrix met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC410702 had a detected level of gasoline at a concentration of 0.024 mg/Kg. The results for gasoline in the associated samples were greater than five times the blank amount and qualification was not required.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC411245 had a detected level of diesel at a concentration of 0.19 mg/Kg. The result for diesel in the associated sample was greater than five times the blank amount and qualification was not required.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exception:

1. A percent recovery for diesel failed the 65-135% project QC criteria in QC sample 198326-020 MS at 189%/(passing). A relative percent difference failed the 35% project QC criterion in samples 198326-020 MS/MSD at 61%. The parent sample was not related to the project samples and qualification of project samples was not required (Batch 130878).

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/6020/7471A)
Overall, the data are usable as reported. Qualifications were required for the reasons in Section E.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Solid method blank QC411394 had detected levels of antimony, arsenic, chromium, cobalt, lead, molybdenum, silver and vanadium at 0.0037 mg/Kg, 0.010 mg/Kg, 0.052 mg/Kg, 0.0064 mg/Kg, 0.010 mg/Kg, 0.015 mg/Kg, 0.0045 mg/Kg, and 0.020 mg/Kg, respectively. The results for antimony, arsenic, chromium, cobalt, lead, molybdenum, silver and vanadium in the associated sample were greater than five times the blank amounts, and qualification was not required.

2. Solid method blank QC411177 had detected levels of chromium and zinc at 0.032 mg/Kg and 0.078 mg/Kg, respectively. The results for chromium and zinc in the associated sample were greater than five times the blank amounts, and qualification was not required.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, molybdenum, and zinc failed the 75-125% project QC criteria in QC samples 1065BC401 MS/MSD at 37%/36%, 72%/67%, and passing/62%, respectively. The results for antimony, molybdenum, and zinc in the associated project sample were qualified as estimated (J-) (Batch 130746).See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery failures.

2. Percent recoveries for antimony failed the 75-125% project QC criteria in QC samples 198453-002 MS/MSD at 56%/54%. The parent sample was not related to the project samples and qualification of project samples was not required (Batch 130692).

F. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Reporting Limits**

The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by:_____
Mary Hart
Project Database Analyst

Reviewed by:_____
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
October 15, 2007 Backfill Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065BC401	198380-002	6020	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065BC401	198380-002	6020	Molybdenum	7439-98-7	J-	Matrix spike recovery exceeded acceptance criteria.
1065BC401	198380-002	6020	Zinc	7440-66-6	J-	Matrix spike recovery exceeded acceptance criteria.

MACTEC

DATE: November 9, 2007
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – October 30, 2007 Soil Confirmation Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 198818

SAMPLING DATE: 10/30/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX350[4.0]	198818-001	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
DUP103007	198818-002	EPA 8260B, 8270C-SIM, 8015B, 6010B,

		7471A
1065EX351[4.0]	198818-003	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX352[4.0]	198818-004	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX353[4.0]	198818-005	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX355[4.0]	198818-006	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX356[4.0]	198818-007	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX353RB354	198818-008	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7470A
TB103007	198818-009	EPA 8260B, 8015B
1065EX354[4.0]	198818-010	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections B and C.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Aqueous method blank QC413031 had detected levels of bromomethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, and naphthalene at 0.4 µg/L, 0.05 µg/L, 0.1 µg/L, and 0.5 µg/L, respectively. The results for bromomethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, and naphthalene in the associated sample were non-detect and qualification was not required.

2. Soil method blank QC413225 had detected levels of acetone and methylene chloride at 1.8 µg/Kg and 15 µg/Kg, respectively. The results for acetone and methylene chloride in the associated sample were less than ten times the blank amounts and changed to non-detect (U).

3. Soil method blank QC413263 had a detected level of methylene chloride at 0.64 µg/Kg. The result for methylene chloride in the associated sample was less than ten times the blank amount and changed to non-detect (U).

4. Soil method blank QC413434 had detected levels of acetone and methylene chloride at 1.8 µg/Kg and 1.2 µg/Kg, respectively. The results for acetone and methylene chloride in the associated samples were changed to non-detect (U) if the results were less than ten times the blank amounts.

5. Soil method blank QC413866 had detected levels of acetone and methylene chloride at 1.1 µg/Kg and 5.5 µg/Kg, respectively. The results for acetone and methylene chloride in the associated sample were less than ten times the blank amounts and changed to non-detect (U).

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. Percent recoveries for the surrogate, bromofluorobenzene, failed the 80-122% laboratory acceptance criteria in samples 1065EX350[4.0], 1065EX352[4.0], and 1065EX355[4.0] at 128%, 131%, and 127%, respectively. The detected results associated with this surrogate were qualified as estimated (J).

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blanks identified within this sample delivery group, with the following exceptions:

1. Equipment rinsate blank 1065EX353RB354 had a detected level of methylene chloride at 0.6 µg/L. The results for methylene chloride in the

associated samples were less than ten times the blank amount and were changed to non-detect (U).

2. Trip blank TB103007 had detected levels for acetone and methylene chloride at 1.2 µg/L and 0.4 µg/L, respectively. The results for acetone and methylene chloride in the associated samples were less than ten times the blank amounts and changed to non-detect (U).

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil and water matrices met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the method detection limits (MDLs) and MDLs meet required limits.
2. Samples 1065EX350[4.0], DUP103007, 1065EX352[4.0], and 1065EX355[4.0] were analyzed at dilutions due to the presence of total petroleum hydrocarbons. The reporting limits were raised by the dilution factors and some sample results were non-detect at the raised reporting limits.
3. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in reporting limits above the CUL for Benzene in sample 1065EX354[4.0]. Samples were J-flagged to the MDL and MDLs meet required limits.
4. It should be noted that the reporting limits for some soils were raised due to limited sample size collected in the encore devices. This resulted in reporting limits above the CUL for Benzene in samples 1065EX353[4.0] and 1065EX356[4.0]. Samples were J-flagged to the MDL and MDLs meet required limits.
5. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples which required dilutions of five-fold or greater and had failing surrogate recoveries did not required qualification and were not noted in this report.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
Matrix spike and matrix spike duplicate samples were not reported for the preliminary results.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for PAHs soil and water matrices met the project-required reporting limits, with the following exceptions:

1. Some samples were analyzed at dilutions due to the nature of the extracts. The reporting limits were raised by the dilutions factors and some sample results were non-detect at the raised reporting limits.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
3. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)
Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section B and C.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC412983 had a detected level of gasoline at a concentration of 0.021 mg/Kg. The results for gasoline in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. The percent recoveries for the surrogates, trifluorotoluene (TFT) and bromofluorobenzene (BFB) failed the 65-135% project acceptance criteria in several project samples. The detected results for gasoline were qualified as estimated (J). The following table lists the project samples that required qualification due to these QC failures.

Project Sample ID	Laboratory ID	TFT %Recovery	BFB %Recovery
1065EX350[4.0]	198818-001	209%	293%
DUP103007	198818-002	208%	317%
1065EX352[4.0]	198818-004	143%	351%
1065EX355[4.0]	198818-006	143%	371%

See Table 1 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blanks identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for gasoline in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7470A/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Section B and E.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Aqueous method blank had detected levels of antimony, silver, and zinc at 2.2 µg/L, 0.94 µg/L, and 5.7 µg/L, respectively. The results for antimony, silver, and zinc in the associated sample were changed to non-detect (U) if those values were less than five times the blank amounts.

2. Solid method blank QC413007 had detected levels of chromium, lead, and selenium at 0.049 mg/Kg, 0.12 mg/Kg, and 0.2 mg/Kg, respectively. The results for chromium, lead, and selenium in the associated samples were changed to non-detect (U) if those values were less than five times the blank amounts.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, lead, and nickel failed the 75-125% project acceptance criteria in QC samples 1065EX352[4.0] MS/MSD at 50%/51%, 161%/passing, 64%/35%, and 151%/184%, respectively. The results for antimony and lead in the associated project sample were qualified as estimated with a low bias (J-) and the detected results for copper and nickel were qualified as estimated with a high bias (J+). See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery failures.

F. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank associated with the project samples, with the following exceptions:

1. Equipment rinsate blank 1065EX353RB354 had detected levels of barium and copper at 1.0 µg/L and 0.92 µg/L, respectively. The values were converted to solid matrix units and the project soil samples were evaluated for blank contamination. The results for barium and copper in the associated soil samples were greater than five times the blank amounts and qualification was not required.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group, with the following exceptions:

1. In field duplicates 1065EX350[4.0] and DUP103007, the relative percent differences (RPDs) between the detected results failed the 50% acceptance criteria for barium and lead at 117% and 72%, respectively.

The analysis of the field duplicate samples is a measure of both field and analytical precision. Since the effect on the quality of the data is unknown, data have not been qualified as a result of field duplicate failure.

H. **Reporting Limits**

The laboratory reporting limits for metals in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but

quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: _____
Mary Hart
Project Database Analyst

Reviewed by: _____
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
October 30, 2007, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX350[4.0]	198818-001	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX350[4.0]	198818-001	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX350[4.0]	198818-001	6010B	Lead	7439-92-1	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX350[4.0]	198818-001	6010B	Nickel	7440-02-0	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX350[4.0]	198818-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX350[4.0]	198818-001	8260B	Isopropylbenzene	98-82-8	J	Surrogate recovery was outside control limits.
1065EX350[4.0]	198818-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX350[4.0]	198818-001	8260B	n-Butylbenzene	104-51-8	J	Surrogate recovery was outside control limits.
1065EX350[4.0]	198818-001	8260B	n-Propylbenzene	103-65-1	J	Surrogate recovery was outside control limits.
1065EX350[4.0]	198818-001	8260B	p-Isopropyltoluene	99-87-6	J	Surrogate recovery was outside control limits.
1065EX350[4.0]	198818-001	8260B	sec-Butylbenzene	135-98-8	J	Surrogate recovery was outside control limits.
1065EX350[4.0]	198818-001	8260B	Xylenes (m&p-)	136777-61-2	J	Surrogate recovery was outside control limits.
DUP103007	198818-002	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
DUP103007	198818-002	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
DUP103007	198818-002	6010B	Lead	7439-92-1	J-	Matrix spike recovery exceeded acceptance criteria.
DUP103007	198818-002	6010B	Nickel	7440-02-0	J+	Matrix spike recovery exceeded acceptance criteria.
DUP103007	198818-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
DUP103007	198818-002	8260B	Acetone	67-64-1	U	Blank contamination.
DUP103007	198818-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX351[4.0]	198818-003	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX351[4.0]	198818-003	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX351[4.0]	198818-003	6010B	Lead	7439-92-1	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX351[4.0]	198818-003	6010B	Nickel	7440-02-0	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX351[4.0]	198818-003	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX351[4.0]	198818-003	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX351[4.0]	198818-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX352[4.0]	198818-004	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX352[4.0]	198818-004	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX352[4.0]	198818-004	6010B	Lead	7439-92-1	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX352[4.0]	198818-004	6010B	Nickel	7440-02-0	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX352[4.0]	198818-004	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX352[4.0]	198818-004	8260B	Isopropylbenzene	98-82-8	J	Surrogate recovery was outside control limits.
1065EX352[4.0]	198818-004	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX352[4.0]	198818-004	8260B	n-Butylbenzene	104-51-8	J	Surrogate recovery was outside control limits.
1065EX352[4.0]	198818-004	8260B	n-Propylbenzene	103-65-1	J	Surrogate recovery was outside control limits.
1065EX352[4.0]	198818-004	8260B	p-Isopropyltoluene	99-87-6	J	Surrogate recovery was outside control limits.
1065EX352[4.0]	198818-004	8260B	sec-Butylbenzene	135-98-8	J	Surrogate recovery was outside control limits.
1065EX353[4.0]	198818-005	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX353[4.0]	198818-005	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.

Table 1. Summary of Level II Data Validation Qualifiers
October 30, 2007, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX353[4.0]	198818-005	6010B	Lead	7439-92-1	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX353[4.0]	198818-005	6010B	Nickel	7440-02-0	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX353[4.0]	198818-005	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX353[4.0]	198818-005	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX353[4.0]	198818-005	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX355[4.0]	198818-006	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX355[4.0]	198818-006	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX355[4.0]	198818-006	6010B	Lead	7439-92-1	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX355[4.0]	198818-006	6010B	Nickel	7440-02-0	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX355[4.0]	198818-006	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX355[4.0]	198818-006	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX355[4.0]	198818-006	8260B	Isopropylbenzene	98-82-8	J	Surrogate recovery was outside control limits.
1065EX355[4.0]	198818-006	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX355[4.0]	198818-006	8260B	n-Butylbenzene	104-51-8	J	Surrogate recovery was outside control limits.
1065EX355[4.0]	198818-006	8260B	n-Propylbenzene	103-65-1	J	Surrogate recovery was outside control limits.
1065EX355[4.0]	198818-006	8260B	p-Isopropyltoluene	99-87-6	J	Surrogate recovery was outside control limits.
1065EX355[4.0]	198818-006	8260B	sec-Butylbenzene	135-98-8	J	Surrogate recovery was outside control limits.
1065EX356[4.0]	198818-007	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX356[4.0]	198818-007	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX356[4.0]	198818-007	6010B	Lead	7439-92-1	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX356[4.0]	198818-007	6010B	Nickel	7440-02-0	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX356[4.0]	198818-007	6010B	Selenium	7782-49-2	U	Blank contamination.
1065EX356[4.0]	198818-007	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX353RB354	198818-008	6010B	Antimony	7440-36-0	U	Blank contamination.
1065EX353RB354	198818-008	6010B	Zinc	7440-66-6	U	Blank contamination.
1065EX354[4.0]	198818-010	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX354[4.0]	198818-010	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX354[4.0]	198818-010	6010B	Lead	7439-92-1	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX354[4.0]	198818-010	6010B	Nickel	7440-02-0	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX354[4.0]	198818-010	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX354[4.0]	198818-010	8260B	Methylene chloride	75-09-2	U	Blank contamination.

MACTEC

DATE: November 7, 2007
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – October 31, 2007 Dewatering Confirmation Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 198879

SAMPLING DATE: 10/31/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065DE210	198879-001	EPA 6010B/7470A, 150.1, 1664A, 420.1, SM4500CN-E, SM4500S2-D
DUP103107	198879-002	EPA 6010B/7470A, 150.1, 1664A, 420.1, SM4500CN-E, SM4500S2-D

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

METALS (6010B/7470A)

Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The 6-month holding time criteria was met for method 6010B and the 28-day holding time criteria was met for method 7470A project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

F. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group, with the following exceptions:

1. In field duplicates 1065DE210 and DUP103107, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for copper at 74%.

The analysis of the field duplicate samples is a measure of both field and analytical precision. Since the effect on the quality of the data is unknown, data have not been qualified as a result of field duplicate failure.

G. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

H. **Reporting Limits**

The laboratory reporting limits for metals in water matrix met the project-required reporting limits.

GENERAL CHEMISTRY (150.1, 1664A, 420.1, SM4500CN-E, SM4500S2-D)

Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The 7-day technical holding time for dissolved sulfide, the 14-day technical holding time criteria for cyanide, and the 28-day technical holding time criteria for oil and grease and total phenols were met for project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
QC criteria were met for the laboratory duplicate samples associated with the project samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

F. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

G. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for general chemistry parameters in water matrix samples met the project-required reporting limits.

SUMMARY

Qualification was not required for project samples included in the data package.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: Mary Hart

Mary Hart
Project Database Analyst

Reviewed by: Kristen A. Carlyon

Kristen Carlyon
Senior Environmental Scientist

MACTEC

DATE: November 9, 2007
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – October 31, 2007 Backfill Confirmation Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 198880

SAMPLING DATE: 10/31/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX357[4.0]	198880-001	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX358[4.0]	198880-002	EPA 8260B, 8270C-SIM, 8015B, 6010B,

		7471A
TB103107	198880-003	EPA 8260B, 8015B
1065EX357RB358	198880-004	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7470A

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections B and C.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Aqueous method blank QC413783 had detected levels of bromomethane, acetone, methylene chloride, benzene, 1,2,4-trichlorobenzene, and naphthalene at 0.8 µg/L, 0.6 µg/L, 0.2 µg/L, 0.04 µg/L, 0.2 µg/L, and 0.1 µg/L, respectively. The results for bromomethane, acetone, methylene chloride, and benzene in the associated samples were less than five times (ten times for common lab contaminants) the blank amounts and changed to non-detect (U). The results for 1,2,4-trichlorobenzene and naphthalene in the associated samples were non-detect and qualification was not required.

2. Soil method blank QC413434 had detected levels of acetone and methylene chloride at 1.8 µg/Kg and 1.2 µg/Kg, respectively. The results for acetone and methylene chloride in the associated sample were less than ten times the blank amounts and changed to non-detect (U).

3. Although not detected in the associated method blank, acetone and methylene chloride have been commonly found as contaminants in many laboratories. It is the judgement of the data reviewer that the acetone and methylene chloride detected in sample 1065EX357[4.0] are artifacts introduced during dilution. The results for acetone and methylene chloride were qualified as non-detect (U) in sample 1065EX357[4.0].

C. **Surrogate Recoveries**

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. A percent recovery for the surrogate, bromofluorobenzene, failed the 80-122% laboratory acceptance criteria in sample 1065EX357[4.0] at 131%. The detected results associated with the surrogate, bromofluorobenzene, were qualified as estimated (J).

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for field QC blanks not identified within this sample delivery group, with the following exceptions:

1. Equipment rinsate blank 1065EX357RB358 had detected levels of isopropylbenzene, propylbenzene, sec-butylbenzene, para-isopropyl toluene, and n-butylbenzene at 0.1 µg/L, 0.2 µg/L, 0.2 µg/L, 0.2 µg/L, and 0.3 µg/L, respectively. The results in the associated samples were greater than five times the blank amount or non-detect and qualification was not required.

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil and water matrices met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the method detection limits (MDLs) and MDLs meet required limits.
2. Sample 1065EX357[4.0] was analyzed at a dilution due to the presence of total petroleum hydrocarbons. The reporting limits were raised by the dilution factor and some sample results were non-detect at the raised reporting limits.
3. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in reporting limits above the CUL for Benzene in sample 1065EX358[4.0]. Samples were J-flagged to the MDL and MDLs meet required limits.

4. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
5. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for PAHs soil and water matrices met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualification was required for the reasons noted in Sections C and H.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC413919 had a detected level of gasoline at a concentration of 0.019 mg/Kg. The results for gasoline in the associated samples were greater than five times the blank amount and qualification was not required.

C. **Surrogate Recoveries**

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. A percent recovery for the surrogate, bromofluorobenzene, failed the 80-122% laboratory acceptance criteria in sample 1065EX357[4.0] at 248%. The detected result for gasoline was qualified as estimated (J).

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**

QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**

Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**

Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for field QC blanks identified within this sample delivery group, with the following exceptions:

1. Equipment rinsate blank 1065EX357RB358 had a detected level of gasoline at 31 µg/L. The result for gasoline was converted to soil matrix units and the project samples were evaluated for blank contamination. The result for gasoline in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.

2. Trip blank TB103107 had had a detected level of gasoline at 27 µg/L. The result for gasoline was converted to soil matrix units and the project samples were evaluated for blank contamination. The result for gasoline in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.

I. **Reporting Limits**

The laboratory reporting limits for gasoline in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC413727 had a detected level of diesel at a concentration of 0.34 mg/Kg. The result for diesel in the associated sample was greater than five times the blank amount and qualification was not required.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7470A/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections B, E, and F.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Aqueous method blank QC414109 had detected levels of lead and thallium at 1.2 µg/L and 1.6 µg/L, respectively. The result for thallium in the associated sample was less than five times the blank amount and changed to non-detect (U). The result for lead in the associated sample was non-detect and no qualification was required.

2. Solid method blank QC413589 had detected levels of beryllium, chromium, copper, lead, molybdenum, and silver at 0.0026 mg/Kg, 0.025 mg/Kg, 0.056 mg/Kg, 0.077 mg/Kg, 0.026 mg/Kg, and 0.060 mg/Kg, respectively. The result for silver in sample 1065EX358[4.0] was less than five times the blank amount and was changed to non-detect (U). The results for beryllium, chromium, copper, lead, and molybdenum in the associated samples were greater than five times the blank amounts or non-detect, and qualification was not required.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, lead, and zinc failed the 75-125% project QC criteria in QC samples 1065EX359[4.0] MS/MSD at 63%/61%, (passing)/188%, passing/160%, and 570%/338%, respectively. The results for antimony in the associated project samples were qualified as estimated (J-). The detected results for copper, lead, and zinc were qualified in the associated samples as estimated (J+). See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery failures.

F. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank associated with the project samples, with the following exceptions:

1. Equipment rinsate blank 1065EX357RB358 had detected levels of arsenic, barium, beryllium, chromium, copper, molybdenum, selenium, and vanadium at 14 µg/L, 47 µg/L, 0.60 µg/L, 3.7 µg/L, 3.7 µg/L, 2.5 µg/L, 7.7 µg/L, and 3.9 µg/L, respectively. The values were converted to solid matrix units and the project soil samples were evaluated for blank contamination. The results for arsenic and beryllium in the associated soil samples were changed to non-detect (U) if those values were less than five times the blank amount. The results for barium, chromium, copper, molybdenum, selenium, and vanadium in the associated soil samples were greater than five times the blank amounts or non-detect and qualification was not required.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Reporting Limits**

The laboratory reporting limits for metals in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: _____
Mary Hart
Project Database Analyst

Reviewed by: _____
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
October 31, 2007, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX357[4.0]	198880-001	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX357[4.0]	198880-001	6010B	Arsenic	7440-38-2	U	Blank contamination.
1065EX357[4.0]	198880-001	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX357[4.0]	198880-001	6010B	Lead	7439-92-1	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX357[4.0]	198880-001	6010B	Zinc	7440-66-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX357[4.0]	198880-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX357[4.0]	198880-001	8260B	n-Propylbenzene	103-65-1	J	Surrogate recovery was outside control limits.
1065EX357[4.0]	198880-001	8260B	n-Butylbenzene	104-51-8	J	Surrogate recovery was outside control limits.
1065EX357[4.0]	198880-001	8260B	sec-Butylbenzene	135-98-8	J	Surrogate recovery was outside control limits.
1065EX357[4.0]	198880-001	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX357[4.0]	198880-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX357[4.0]	198880-001	8260B	Isopropylbenzene	98-82-8	J	Surrogate recovery was outside control limits.
1065EX357[4.0]	198880-001	8260B	p-Isopropyltoluene	99-87-6	J	Surrogate recovery was outside control limits.
1065EX358[4.0]	198880-002	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX358[4.0]	198880-002	6010B	Arsenic	7440-38-2	U	Blank contamination.
1065EX358[4.0]	198880-002	6010B	Beryllium	7440-41-7	U	Blank contamination.
1065EX358[4.0]	198880-002	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX358[4.0]	198880-002	6010B	Zinc	7440-66-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX358[4.0]	198880-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX358[4.0]	198880-002	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX358[4.0]	198880-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.
TB103107	198880-003	8260B	Acetone	67-64-1	U	Blank contamination.
TB103107	198880-003	8260B	Benzene	71-43-2	U	Blank contamination.
TB103107	198880-003	8260B	Bromomethane	74-83-9	U	Blank contamination.
TB103107	198880-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX357RB358	198880-004	6010B	Thallium	7440-28-0	U	Blank contamination.
1065EX357RB358	198880-004	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX357RB358	198880-004	8260B	Benzene	71-43-2	U	Blank contamination.
1065EX357RB358	198880-004	8260B	Methylene chloride	75-09-2	U	Blank contamination.

MACTEC

DATE: November 14, 2007 (revised)
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – November 1, 2007 Soil Confirmation Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 198903 (Revised to include sample -007)

SAMPLING DATE: 11/01/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX359[4.0]	198903-001	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX360[4.0]	198903-002	EPA 8260B, 8270C-SIM, 8015B, 6010B,

		7471A
DUP110107	198903-003	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX360RB361	198903-004	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
TB110107	198903-005	EPA 8260B, 8015B
1065EX361[4.5]	198903-006	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX362[5.5]	198903-007	EPA 8260B, 8270C-SIM, 8015B, 6020, 7471A

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section B.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Aqueous method blank QC413881 had detected levels of acetone, methylene chloride, and benzene at 0.8 µg/L, 0.3 µg/L, and 0.03 µg/L, respectively. The results for acetone and methylene chloride in the associated samples were less than ten times the blank amounts and were changed to non-detect (U). The results for benzene in the associated samples were non-detect and qualification was not required.

2. Soil method blank QC413433 had a detected level of acetone at 0.91 µg/Kg. The results for acetone in the associated samples were less than ten times the blank amounts and changed to non-detect (U).

3. Soil method blank QC414072 had a detected level of methylene chloride at 2.9 µg/Kg. The result for methylene chloride in the associated sample was less than ten times the blank amount and changed to non-detect (U).

See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**

Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blanks identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil and water matrices met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the method detection limits (MDLs) and MDLs meet required limits.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in reporting limits above the CUL for Benzene in samples 1065EX359[4.0] and 1065EX361[4.5]. Samples were J-flagged to the MDL and MDLs meet required limits.
3. It should be noted that the reporting limits for some soils were raised due to limited sample size collected in the encore devices. This resulted in reporting limits above the CUL for Benzene in sample 1065EX362[5.5]. Samples were J-flagged to the MDL and MDLs meet required limits.
4. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section H.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank identified within this sample delivery group, with the following exception:

1. Naphthalene and 2-methylnaphthalene were detected in equipment rinsate blank 1065EX360RB361 at concentrations of 0.02 µg/L and 0.01 µg/L, respectively. The results for naphthalene and 2-methylnaphthalene were converted to soil matrix units and the project soils were evaluated for blank contamination. The results for naphthalene and 2-methylnaphthalene were changed to non-detect (U) if those values were less than five times the blank amount. See Table 1 of this report for a summary of qualifications due to blank contamination.

I. **Reporting Limits**

The laboratory reporting limits for PAHs soil and water matrices met the project-required reporting limits, with the following exceptions:

1. Some samples were analyzed at dilutions due to the nature of the extracts. The reporting limits were raised by the dilutions factors and some sample results were non-detect at the raised reporting limits.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
3. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC413919 had a detected level of gasoline at a concentration of 0.019 mg/Kg. The results for gasoline in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount. See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blanks identified within this sample delivery group, with the following exceptions:

1. Equipment rinsate blank 1065EX360RB361 had a detected level of gasoline at 19 µg/L. The results for gasoline in the associated project soil samples were previously changed to non-detect (U) due to method blank contamination or were greater than five times the blank amount.

2. Trip blank TB110107 had a detected level of gasoline at 16 µg/L. The results for gasoline in the associated project soil samples were previously changed to non-detect (U) due to method blank contamination or were five times the blank amount.

I. **Reporting Limits**

The laboratory reporting limits for gasoline in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was required for the reason noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exception:

1. Soil method blank QC413624 had a detected level of diesel at a concentration of 0.4 mg/Kg. The results for diesel in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount. See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exception:

1. A percent recovery for diesel failed the 65-135% project acceptance criteria in QC samples 1065EX359[4.0] MSD at 61%. No qualification of data is necessary, because no action is taken solely in response to MS/MSD data outliers.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group, with the following exceptions:

1. In field duplicates 1065EX360[4.0] and DUP110107, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for motor oil at 157%. The absolute difference between results for diesel was greater than two times the reporting limit. The original result for diesel was 3.0 mg/kg and the duplicate result was 15 mg/kg. It should be noted that the original sample was analyzed undiluted and the duplicate sample was analyzed at a five times dilution due to the presence of heavier hydrocarbons.

The analysis of the field duplicate samples is a measure of both field and analytical precision. Since the effect on the quality of the data is unknown, data have not been qualified as a result of field duplicate failure.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but

quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/6020/7470A/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Section B and E.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Solid method blank QC413589 had detected levels of beryllium, chromium, copper, lead, molybdenum, and silver at 0.0026 mg/Kg, 0.025 mg/Kg, 0.056 mg/Kg, 0.077 mg/Kg, 0.026 mg/Kg, and 0.06 mg/Kg, respectively. The results for silver in the associated samples were less than five times the blank amount and changed to non-detect (U). The results for beryllium, chromium, copper, lead, and molybdenum in the associated samples were greater than five times the blank values or non-detect and qualification was not required. Table 1 of this report for a summary of qualifications due to blank contamination.

2. Solid method blank QC414273 had detected levels of lead, molybdenum, nickel, vanadium, and zinc at 0.0048 mg/Kg, 0.019 mg/Kg, 0.048 mg/Kg, 0.0075 mg/Kg, and 0.056 mg/Kg, respectively. The results for lead, molybdenum, nickel, vanadium and zinc in the associated sample were greater than five times the blank values and qualification was not required.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, lead, mercury, and zinc failed the 75-125% project acceptance criteria in QC samples 1065EX359[4.0] MS/MSD at 63%/61%, passing/188%, passing/160%, 25%/-4%, and 570%/338%, respectively. The results for antimony and mercury in the associated project

sample were qualified as estimated with a low bias (J-) and the detected results for copper, lead, and zinc were qualified as estimated with a high bias (J+). See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery failures.

2. Percent recoveries for antimony, chromium, copper, molybdenum, nickel, vanadium, and zinc failed the 75-125% project acceptance criteria in QC samples 198975-001 MS/MSD at 28%/29%, passing/52%, passing/65%, 69%/71%, 225%/152%, passing/61%, 151%/passing. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required.

F. **Field QC Samples – Field Blanks**

QC criteria were met for the field QC blank associated with the project samples, with the following exceptions:

1. Equipment rinsate blank 1065EX360RB361 had detected levels of barium and nickel at 0.46 µg/L and 0.84 µg/L, respectively. The values were converted to solid matrix units and the project soil samples were evaluated for blank contamination. The results for barium and nickel in the associated soil samples were greater than five times the blank amounts and qualification was not required.

H. **Field QC Samples – Field Duplicates**

QC criteria were met for the field duplicate samples identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for metals in soil and water matrices met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: Mary Hart

Mary Hart
Project Database Analyst

Reviewed by: Kristen A. Carlyon

Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
November 1, 2007, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX359[4.0]	198903-001	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	6010B	Lead	7439-92-1	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	6010B	Silver	7440-22-4	U	Blank contamination.
1065EX359[4.0]	198903-001	6010B	Zinc	7440-66-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	7471A	Mercury	7439-97-6	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX359[4.0]	198903-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX359[4.0]	198903-001	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX360[4.0]	198903-002	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	6010B	Lead	7439-92-1	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	6010B	Silver	7440-22-4	U	Blank contamination.
1065EX360[4.0]	198903-002	6010B	Zinc	7440-66-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	7471A	Mercury	7439-97-6	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX360[4.0]	198903-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX360[4.0]	198903-002	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX360[4.0]	198903-002	8270SIM	2-Methylnaphthalene	91-57-6	U	Blank contamination.
DUP110107	198903-003	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	6010B	Lead	7439-92-1	J+	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	6010B	Silver	7440-22-4	U	Blank contamination.
DUP110107	198903-003	6010B	Zinc	7440-66-6	J+	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	7471A	Mercury	7439-97-6	J-	Matrix spike recovery exceeded acceptance criteria.
DUP110107	198903-003	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
DUP110107	198903-003	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX360RB361	198903-004	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX360RB361	198903-004	8260B	Methylene chloride	75-09-2	U	Blank contamination.
TB110107	198903-005	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX361[4.5]	198903-006	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX361[4.5]	198903-006	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX361[4.5]	198903-006	6010B	Lead	7439-92-1	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX361[4.5]	198903-006	6010B	Silver	7440-22-4	U	Blank contamination.
1065EX361[4.5]	198903-006	6010B	Zinc	7440-66-6	J+	Matrix spike recovery exceeded acceptance criteria.

Table 1. Summary of Level II Data Validation Qualifiers
November 1, 2007, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX361[4.5]	198903-006	7471A	Mercury	7439-97-6	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX361[4.5]	198903-006	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX361[4.5]	198903-006	8015M	TPH Diesel (C12-C24)	11-84-7	U	Blank contamination.
1065EX361[4.5]	198903-006	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX361[4.5]	198903-006	8270SIM	2-Methylnaphthalene	91-57-6	U	Blank contamination.
1065EX361[4.5]	198903-006	8270SIM	Naphthalene	91-20-3	U	Blank contamination.
1065EX362[5.5]	198903-007	8260B	Methylene chloride	75-09-2	U	Blank contamination.

MACTEC

DATE: November 13, 2007
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – November 7, 2007 Confirmation Soil Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 199042

SAMPLING DATE: 11/07/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX363[8.0]	199042-003	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX364[6.0]	199042-004	EPA 8260B, 8270C-SIM, 8015B, 6010B,

		7471A
1065EX365[6.5]	199042-005	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC414324 had detected levels of acetone and methylene chloride at 1.1 µg/Kg and 1.1 µg/Kg, respectively. The results for acetone and methylene chloride in the associated samples were less than ten times the blank amounts and changed to non-detect (U). See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil matrix met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the method detection limits (MDLs) and MDLs meet required limits.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in reporting limits above the CUL for Benzene in sample 1065EX365[6.5]. Samples were J-flagged to the MDL and MDLs meet required limits.
3. It should be noted that the reporting limits for some soils were raised due to limited sample size collected in the encore devices. This resulted in reporting limits above the CUL for Benzene in sample 1065EX363[8.0]. Samples were J-flagged to the MDL and MDLs meet required limits.
4. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)
Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples which required dilutions of five-fold or greater and had failing surrogate recoveries did not required qualification and were not noted in this report.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision

of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
Matrix spike and matrix spike duplicate samples were not reported for the preliminary results.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for PAHs soil matrix met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section C.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC414467 had a detected level of gasoline at a concentration of 0.017 mg/Kg. The results for gasoline in the associated samples were greater than five times the blank amount and qualification was not required.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. The percent recoveries for the surrogate bromofluorobenzene (BFB) failed the 65-135% project acceptance criteria in sample 1065EX365[6.5] at 153%. The

detected result for gasoline was qualified as estimated (J). See Table 1 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was required for the reason noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exception:

1. Soil method blank QC414316 had a detected level of diesel at 0.24 mg/kg. The result for diesel in sample 1065EX363[8.0] was less than five times the

blank amount and was changed to non-detect (U). See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
QC criteria were met for the field QC blank identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7470A/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Section B and E.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Solid method blank QC414260 had detected levels of barium, cadmium, chromium, cobalt, molybdenum, silver, vanadium, and zinc at 0.066 mg/Kg, 0.0052 mg/Kg, 0.029 mg/Kg, 0.013 mg/Kg, 0.034 mg/Kg, 0.057 mg/Kg, 0.024 mg/Kg, and 0.29 mg/Kg, respectively. The results for molybdenum and silver in the associated samples were changed to non-detect (U) if those values were less than five times the blank amounts. The results for barium, cadmium, chromium, cobalt, vanadium, and zinc were greater than five times the blank amounts or non-detect and qualification was not required. See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, and mercury failed the 75-125% project acceptance criteria in QC samples 1065EX363[8.0] MS/MSD at 38%/39%, 140%/passing, and 135%/passing, respectively. The results for antimony in the associated project sample were qualified as estimated with a low bias (J-) and the detected results for copper and mercury were qualified as estimated with a high bias (J+). See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery failures.

F. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Reporting Limits**

The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: _____
Mary Hart
Project Database Analyst

Reviewed by: _____
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
November 7, 2007, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX363[8.0]	199042-003	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX363[8.0]	199042-003	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX363[8.0]	199042-003	6010B	Molybdenum	7439-98-7	U	Blank contamination.
1065EX363[8.0]	199042-003	7471A	Mercury	7439-97-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX363[8.0]	199042-003	8015M	TPH Diesel (C12-C24)	11-84-7	U	Blank contamination.
1065EX363[8.0]	199042-003	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX363[8.0]	199042-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX364[6.0]	199042-004	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX364[6.0]	199042-004	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX364[6.0]	199042-004	7471A	Mercury	7439-97-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX364[6.0]	199042-004	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX364[6.0]	199042-004	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX365[6.5]	199042-005	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX365[6.5]	199042-005	6010B	Copper	7440-50-8	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX365[6.5]	199042-005	6010B	Silver	7440-22-4	U	Blank contamination.
1065EX365[6.5]	199042-005	7471A	Mercury	7439-97-6	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX365[6.5]	199042-005	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX365[6.5]	199042-005	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX365[6.5]	199042-005	8260B	Methylene chloride	75-09-2	U	Blank contamination.

MACTEC

DATE: November 15, 2007
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – November 12, 2007 Confirmation Soil Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 199163

SAMPLING DATE: 11/12/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX341[7.0]	199163-001	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
DUP111207	199163-002	EPA 8260B, 8270C-SIM, 8015B, 6010B,

		7471A
1065EX342[5.0]	199163-003	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX343[5.0]	199163-004	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX344[5.0]	199163-005	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A
1065EX345[5.0]	199163-006	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section B.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC414999 had detected levels of acetone and methylene chloride at 2.2 µg/Kg and 8.7 µg/Kg, respectively. The results for acetone and methylene chloride in the associated samples were less than ten times the blank amounts and changed to non-detect (U).

2. Soil method blank QC415071 had a detected level of methylene chloride at 3.0 µg/Kg. The result for methylene chloride in the associated sample was less than ten times the blank amount and changed to non-detect (U).

See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**

Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**

QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil matrix met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the method detection limits (MDLs) and MDLs meet required limits.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in reporting limits above the CUL for Benzene in samples 1065EX341[7.0], DUP111207, 1065EX342[5.0], 1065EX344[5.0], and 1065EX345[5.0]. Samples were J-flagged to the MDL and MDLs meet required limits.
3. It should be noted that the reporting limits for some soils were raised due to limited sample size collected in the encore devices. This resulted in reporting limits above the CUL for Benzene in sample 1065EX343[5.0]. Samples were J-flagged to the MDL and MDLs meet required limits.
4. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)
Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples which required dilutions of five-fold or greater and had failing surrogate recoveries did not required qualification and were not noted in this report.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
Matrix spike and matrix spike duplicate samples were not reported for the preliminary results.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for PAHs soil matrix met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC415162 had a detected level of gasoline at a concentration of 0.017 mg/Kg. The results for gasoline in the associated samples was changed to non-detect (U) if those values were less than five times the blank amount.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for gasoline failed the 65-135% project acceptance criteria in QC samples 1065EX343[5.0] MS/MSD at 63%/58%. No qualification of data is necessary, because no action is taken solely in response to MS/MSD data outliers.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blank samples were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Section B and E.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Solid method blank QC415263 had detected levels of barium, chromium, copper, selenium, silver, and zinc at 0.010 mg/Kg, 0.019 mg/Kg, 0.038 mg/Kg, 0.088 mg/Kg, 0.030 mg/Kg, and 0.29 mg/Kg, respectively. The results for silver in the associated samples were changed to non-detect (U) if those values were less than five times the blank amounts. The results for barium, chromium, copper, selenium, and were greater than five times the blank amounts or non-detect and qualification was not required. See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**

QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**

Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, barium, copper, lead, and zinc failed the 75-125% project acceptance criteria in QC samples 1065EX343[5.0] MS/MSD at 50%/50%, (passing)/143%, (passing)/309%, 220%/601%, and 179%/595%, respectively. The results for antimony in the associated project sample were qualified as estimated with a low bias (J-) and the detected results for barium, copper, lead, and zinc were qualified as estimated with a high bias (J+). See

2. Relative percent differerences (RPDs) for copper, lead, and zinc failed the 30% project acceptance criteria in QC samples 1065EX343[5.0] MS/MSD at 33%, 80%, and 55%. The results for copper, lead, and zinc were qualified as estimated (J) in the associated samples.

Table 1 of this report for a summary of qualifications due to matrix spike percent recovery and RPD failures.

F. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

G. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

H. **Reporting Limits**

The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: Mary Hart
Mary Hart
Project Database Analyst

Reviewed by: Kristen A. Carlyon
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
November 12, 2007, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX341[7.0]	199163-001	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX341[7.0]	199163-001	6010B	Barium	7440-39-3	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX341[7.0]	199163-001	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX341[7.0]	199163-001	6010B	Lead	7439-92-1	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX341[7.0]	199163-001	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX341[7.0]	199163-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX341[7.0]	199163-001	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX341[7.0]	199163-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
DUP111207	199163-002	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
DUP111207	199163-002	6010B	Barium	7440-39-3	J+	Matrix spike recovery exceeded acceptance criteria.
DUP111207	199163-002	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
DUP111207	199163-002	6010B	Lead	7439-92-1	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
DUP111207	199163-002	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
DUP111207	199163-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
DUP111207	199163-002	8260B	Acetone	67-64-1	U	Blank contamination.
DUP111207	199163-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX342[5.0]	199163-003	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX342[5.0]	199163-003	6010B	Barium	7440-39-3	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX342[5.0]	199163-003	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX342[5.0]	199163-003	6010B	Lead	7439-92-1	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX342[5.0]	199163-003	6010B	Silver	7440-22-4	U	Blank contamination.
1065EX342[5.0]	199163-003	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX342[5.0]	199163-003	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX342[5.0]	199163-003	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX342[5.0]	199163-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX343[5.0]	199163-004	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX343[5.0]	199163-004	6010B	Barium	7440-39-3	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX343[5.0]	199163-004	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX343[5.0]	199163-004	6010B	Lead	7439-92-1	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX343[5.0]	199163-004	6010B	Silver	7440-22-4	U	Blank contamination.
1065EX343[5.0]	199163-004	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX343[5.0]	199163-004	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX343[5.0]	199163-004	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX343[5.0]	199163-004	8260B	Methylene chloride	75-09-2	U	Blank contamination.

Note:
RPD = Relative Percent Difference

Table 1. Summary of Level II Data Validation Qualifiers
November 12, 2007, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX344[5.0]	199163-005	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX344[5.0]	199163-005	6010B	Barium	7440-39-3	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX344[5.0]	199163-005	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX344[5.0]	199163-005	6010B	Lead	7439-92-1	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX344[5.0]	199163-005	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX344[5.0]	199163-005	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX344[5.0]	199163-005	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX344[5.0]	199163-005	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX345[5.0]	199163-006	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX345[5.0]	199163-006	6010B	Barium	7440-39-3	J+	Matrix spike recovery exceeded acceptance criteria.
1065EX345[5.0]	199163-006	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX345[5.0]	199163-006	6010B	Lead	7439-92-1	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX345[5.0]	199163-006	6010B	Silver	7440-22-4	U	Blank contamination.
1065EX345[5.0]	199163-006	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX345[5.0]	199163-006	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX345[5.0]	199163-006	8260B	Methylene chloride	75-09-2	U	Blank contamination.

Note:
RPD = Relative Percent Difference

MACTEC

DATE: November 19, 2007
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – November 14, 2007 Confirmation Soil Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 199248

SAMPLING DATE: 11/14/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX366[4.0]	199248-001	HOLD
1065EX367[4.0]	199248-002	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC415310 had a detected level of methylene chloride at 0.6 µg/Kg. The result for methylene chloride in the associated sample was less than ten times the blank amount and changed to non-detect (U).

See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil matrix met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the method detection limits (MDLs) and MDLs meet required limits.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples which required dilutions of five-fold or greater and had failing surrogate recoveries did not required qualification and were not noted in this report.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
Matrix spike and matrix spike duplicate samples were not reported for the preliminary results.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for PAHs soil matrix met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exception:

1. Soil method blank QC415465 had a detected level of gasoline at 0.022 mg/Kg. The result for gasoline in the associated sample was less than five times the blank amount and changed to non-detect (U).

See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**

Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**

QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**

Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blank samples were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Section B and E.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Solid method blank QC415800 had detected levels of beryllium, nickel, and selenium at 0.0057 mg/Kg, 0.037 mg/Kg, and 0.062 mg/Kg, respectively. The results for beryllium, nickel, and selenium in the associated sample were greater than five times the blank amounts and qualification was not required.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, barium, cadmium, chromium, cobalt, copper, nickel, selenium, and thallium failed the 75-125% project acceptance criteria in

QC samples 1065EX367[4.0] MS/MSD at 38%/40%, 55%/71%, 73%/(passing), 71%/(passing), 46%/57%, (passing)/9%, 68%/(passing), 71%/(passing), and 67%/69%, respectively. The results for antimony, barium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, and thallium in the associated project sample were qualified as estimated with a low bias (J- / UJ). See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery failures.

F. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Reporting Limits**

The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: Mary Hart
Mary Hart
Project Database Analyst

Reviewed by: Kristen A. Carlyon
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
November 14, 2007, Soil confirmation Sampling Building 1065
Prsidio of San Francisco, CA

Sample Number	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX367[4.0]	199248-002	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Barium	7440-39-3	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Cadmium	7440-43-9	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Chromium	7440-47-3	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Cobalt	7440-48-4	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Copper	7440-50-8	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Nickel	7440-02-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Selenium	7782-49-2	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	6010B	Thallium	7440-28-0	UJ	Matrix spike recovery exceeded acceptance criteria.
1065EX367[4.0]	199248-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX367[4.0]	199248-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.

MACTEC

DATE: November 29, 2007
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – November 21, 2007 Confirmation Soil Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 199433

SAMPLING DATE: 11/21/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX346[5.0]	199433-001	EPA 8270C-SIM, 8015B
1065EX347[5.0]	199433-002	EPA 8270C-SIM, 8015B
1065EX348[5.0]	199433-003	EPA 8270C-SIM, 8015B

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis matrix spike and matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
Matrix spike and matrix spike duplicate samples were not reported with the preliminary results.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for PAHs soil matrix met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
Matrix spike and matrix spike duplicate samples were not reported with the preliminary results.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blank samples were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

No data qualifications were required for the project samples for any test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: _____
Mary Hart
Project Database Analyst

Reviewed by: _____
Kristen Carlyon
Senior Environmental Scientist

MACTEC

DATE: January 3, 2008
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – December 19, 2007 Storm Drain Soil Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 200073

SAMPLING DATE: 12/19/07

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065SD100[5.5]	200073-001	EPA 8260B, 8270C-SIM, 8015B, 6010B, 7471A

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC420977 had detected levels of chloromethane, bromomethane, acetone, methylene chloride, 1,3-dichlorobenzene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene, and 1,2,3-trichlorobenzene at concentrations of 0.48 µg/Kg, 1.1 µg/Kg, 1.7 µg/Kg, 0.81 µg/Kg, 0.30 µg/Kg, 0.40 µg/Kg, 0.66 µg/Kg, 0.26 µg/Kg, 0.75 µg/Kg, 0.73 µg/Kg, 1.2 µg/Kg, and 0.75 µg/Kg, respectively. The result for n-butylbenzene in the associated sample was less than five times the blank amount and changed to non-detect (U). The results for chloromethane, bromomethane, acetone, methylene chloride, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene, and 1,2,3-trichlorobenzene were either non-detect or greater than five times the blank amount and qualification was not required.

See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil matrix met the project-required reporting limits, with the following exceptions:

1. Sample 1065SD100[5.5] was analyzed at a 1000x dilution due to the presence of petroleum hydrocarbons. The laboratory reporting limits did not meet the cleanup levels.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)
Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples which required dilutions of five-fold or greater and had failing surrogate recoveries did not required qualification and were not noted in this report.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
Matrix spike and matrix spike duplicate samples were not reported for the preliminary results.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for PAHs soil matrix met the project-required reporting limits, with the following exceptions:

1. Sample 1065SD100[5.5] was analyzed at a 100x dilution due to the presence of petroleum hydrocarbons. The laboratory reporting limits did not meet the cleanup levels specified for the project samples.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
3. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualifications were required for the reason noted in Section C.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exception:

1. Soil method blank QC421089 had a detected level of gasoline at 0.017 mg/Kg. The result for gasoline in the associated sample was greater than five times the blank amount and qualification was not required.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. A recovery outside the 65-135% project-specific acceptance criteria was observed for bromofluorobenzene (BFB) in sample 1065SD100[5.5] at 267%. The detected result for gasoline in sample 1065SD100[5.5] was qualified as estimated (J).

See Table 1 of this report for a summary of qualifications due to surrogate recovery failures.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exception:

1. A percent recovery for gasoline the 65-135% project acceptance criteria in QC samples 1065SD100[5.5] MS/MSD at (passing)/130%. No action is taken due to MS/MSD outliers alone.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples which required dilutions of five-fold or greater and had failing surrogate recoveries did not required qualification and were not noted in this report.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
Matrix spike and matrix spike duplicate samples were not reported with the preliminary results.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blank samples were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Section E.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Solid method blank QC421489 had detected levels of arsenic, chromium, nickel, and thallium at 0.050 mg/Kg, 0.052 mg/Kg, 0.050 mg/Kg, and 0.084 mg/Kg, respectively. The results for arsenic, chromium, nickel, and thallium in the associated sample were greater than five times the blank amounts and qualification was not required.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**

QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**

Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, cadmium, nickel, silver, and vanadium failed the 75-125% project acceptance criteria in QC samples 1065SD100[5.5] MS/MSD at 42%/43%, 21%/35%, 20%/49%, 71%/59%, and 268%/(passing), respectively. The results for antimony, cadmium, nickel, and silver in the associated project sample were qualified as estimated with a low bias (J-). The result for vanadium in the associated sample was qualified as estimated with a high bias (J+).

2. A relative percent difference (RPD) for vanadium failed the 35% project acceptance criteria in QC samples QC samples 1065SD100[5.5] MS/MSD at 55%. The result for vanadium in the associated sample was qualified as estimated (J).

See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery and RPD failures.

F. **Field QC Samples – Field Blanks**

Field QC blanks were not associated with the project samples.

G. **Field QC Samples – Field Duplicates**

Field duplicate samples were not identified within this sample delivery group.

H. **Reporting Limits**

The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: Mary Hart
Mary Hart
Project Database Analyst

Reviewed by: Kristen A. Carlyon
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
December 19, 2007, Storm Drain Soil Sampling, Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065SD100[5.5]	200073-001	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065SD100[5.5]	200073-001	6010B	Cadmium	7440-43-9	J-	Matrix spike recovery exceeded acceptance criteria.
1065SD100[5.5]	200073-001	6010B	Nickel	7440-02-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065SD100[5.5]	200073-001	6010B	Silver	7440-22-4	J-	Matrix spike recovery exceeded acceptance criteria.
1065SD100[5.5]	200073-001	6010B	Vanadium	7440-62-2	J+	Matrix spike and RPD recovery exceeded acceptance criteria.
1065SD100[5.5]	200073-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065SD100[5.5]	200073-001	8260B	n-Butylbenzene	104-51-8	U	Blank contamination.

MACTEC

DATE: January 29, 2008
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – January 11, 2008 Backfill Soil Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 200520

SAMPLING DATE: 1/11/08

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065BC402	200520-005	EPA 8021, 8081A, 8141A, 8151A, 8015B, 6010B, 7471A
1065BC403	200520-006	ON-HOLD

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS by GC (8021B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC424095 had detected levels of toluene and m,p-xylenes at 0.65 µg/Kg and 0.83 µg/Kg, respectively. The results for toluene and m,p-xylenes in the associated sample were less than five times the blank amounts and changed to non-detect (U). See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples and laboratory control sample duplicates associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil matrix met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in a reporting limit above the CUL for Benzene in sample 1065BC402. Samples were J-flagged to the MDL and MDLs meet required limits.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**

Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**

QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**

Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**

Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**

Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

PESTICIDES (8081A)

Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. A percent recovery for endrin failed the 65-135% project acceptance criteria in QC samples 200522-001 MS/MSD at 52%/passing. In addition, a relative percent difference (RPD) for endrin failed the 35% project acceptance criteria in the same MS/MSD pair at 36%. The parent sample was not associated with the project sample.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for pesticides in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

ORGANOPHOSPHORUS PESTICIDES (OPP) (8141A)

Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control sample and laboratory control sample duplicate associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and/or matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for OPPs in soil matrix met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits did not meet the project-required reporting limits listed in Table 2-6.6-1 of the QAPP for all target compounds. The laboratory reported 0.5 mg/Kg for all compounds except Naled which had a reporting limit of 4.0 mg/Kg. The project-required reporting limits were 0.05 mg/Kg for all target compounds.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

CHLORINATED HERBICIDES (8151A)

Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control sample and laboratory control sample duplicates associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and/or matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:
1. Relative percent differences (RPD) for 2,4-D and 2,4,5-T failed the 30% laboratory acceptance criteria in QC samples 08-01-1021-3 MS/MSD at 37% and 35%, respectively. The parent sample was not associated with the project sample.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**
The laboratory reporting limits for chlorinated herbicides in soil matrix met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits did not meet the project-required reporting limits listed in Table 2-6.7-1 of the QAPP for several compounds. The laboratory reported 0.1 mg/Kg, 0.05 mg/Kg, 0.25 mg/Kg, 10 mg/Kg, 10 mg/Kg, and 0.1 mg/Kg for 2,4-D, dinoseb, dalapon, MCPP, MCPA, and dichlorprop, respectively. The project-required reporting limits were 0.025 mg/Kg, 0.025 mg/Kg, 0.1 mg/Kg, 5 mg/Kg, 5 mg/Kg, and 0.025 mg/Kg for 2,4-D, dinoseb, dalapon, MCPP, MCPA, and dichlorprop, respectively.
2. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

METALS (6010B/7471A)
Overall, the data are usable as reported. Qualifications were required for the reasons in Section B and E.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Solid method blank QC424107 had detected levels of antimony, beryllium, chromium, and nickel at 0.12 mg/Kg, 0.011 mg/Kg, 0.036 mg/Kg, and 0.027 mg/Kg, respectively. The result for beryllium in the associated sample was less than five times the blank amount and changed to non-detect (U). The results for antimony, chromium, and nickel were greater than five times the blank amounts and qualification was not required. See Table 1 of this report for a summary of qualifications due to blank contamination.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision

of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony and copper the 75-125% project acceptance criteria in QC samples 1065BC402 MS/MSD at 36%/45% and 365%/passing, respectively. In addition, the RPD for copper failed the 30% project acceptance criteria in the same MS/MSD pair at 46%. The result for antimony in the associated project sample was qualified as estimated with a low bias (J-) and the detected result for copper was qualified as estimated with a high bias (J+). See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery and RPD failures.

F. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Reporting Limits**

The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: Mary Hart

Mary Hart
Project Database Analyst

Reviewed by: Kristen A. Carlyon
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
January 11, 2008, Backfill Soil Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065BC402	200520-005	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065BC402	200520-005	6010B	Beryllium	7440-41-7	U	Blank contamination.
1065BC402	200520-005	6010B	Copper	7440-50-8	J+	Matrix spike and RPD recovery exceeded acceptance criteria.
1065BC402	200520-005	8021B	Toluene	108-88-3	U	Blank contamination.
1065BC402	200520-005	8021B	Xylenes (m&p-)	136777-61-2	U	Blank contamination.

Notes:
RPD = Relative Percent Difference

MACTEC

DATE: January 30, 2008
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level II Data Validation – January 22, 2008 Confirmation Soil Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

CURSORY DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 200684

SAMPLING DATE: 1/22/08

Level II cursory validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, and field QC Samples. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX301[8.5]	200684-001	EPA 8260B, 8015B, 6010B
1065EX302[8.5]	200684-002	EPA 8260B, 8015B, 6010B

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

BENZENE, TOLUENE, ETHYLBENZENE AND XYLENES by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for volatile organic compounds in soil matrix met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in reporting limits above the CUL for Benzene in samples 1065EX301[8.5] and 1065EX302[8.5]. Samples were J-flagged to the MDL and MDLs meet required limits.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualification was required for the reasons noted in Section C.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples

C. **Surrogate Recoveries**

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. Percent recoveries for the surrogates trifluorotoluene and bromofluorobenzene failed the 65-135% project acceptance criteria in sample 1065EX301[8.5] at 166% and 202%, respectively. The detected result for gasoline was qualified as estimated (J).

See Table 1 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**

QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**

Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**

QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for gasoline failed the 65-135% project QC criteria in QC samples 1065EX301[8.5] MS/MSD at -198%/-199%. No action is taken solely due to matrix spike recovery failures.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Field QC Samples – Field Blanks**
Field QC blanks were not identified within this sample delivery group.

I. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

ARSENIC AND LEAD (6010B)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections E and F.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of matrix spike and matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for lead failed the 75-125% project acceptance criteria in QC samples 1065EX301[8.5] MS/MSD at (passing)/254%. In addition, the relative percent difference (RPD) for lead failed the 30% project acceptance criteria in the same QC samples at 94%. The detected results for lead were qualified in the associated samples as estimated (J+). See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery failures.

F. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

G. **Field QC Samples – Field Duplicates**
Field duplicate samples were not identified within this sample delivery group.

H. **Reporting Limits**

The laboratory reporting limits for metals in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level II data validation, results are considered valid and usable for project purposes.

Review performed by: Mary Hart
Mary Hart
Project Database Analyst

Reviewed by: Kristen A. Carlyon
Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level II Data Validation Qualifiers
January 22, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX301[8.5]	200684-001	6010B	Lead	7439-92-1	J+	Matrix spike recovery and RPD exceeded acceptance criteria.
1065EX301[8.5]	200684-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX302[8.5]	200684-002	6010B	Lead	7439-92-1	J+	Matrix spike recovery and RPD exceeded acceptance criteria.

Notes:
RPD = Relative Percent Difference

Table 1. Summary of Level II Data Validation Qualifiers
March 6, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX303[7.0]	201726-001	6010B	Lead	7439-92-1	J	Matrix spike sample RPD outside acceptance criteria.
1065EX303[7.0]	201726-001	6010B	Antimony	7440-36-0	UJ	Blank contamination;Matrix spike recovery outside acceptance criteria.
1065EX303[7.0]	201726-001	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD outside acceptance criteria.
1065EX303[7.0]	201726-001	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD outside acceptance criteria.
1065EX303[7.0]	201726-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX304[7.5]	201726-002	6010B	Lead	7439-92-1	J	Matrix spike sample RPD outside acceptance criteria.
1065EX304[7.5]	201726-002	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery exceeded acceptance criteria.
1065EX304[7.5]	201726-002	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD outside acceptance criteria.
1065EX304[7.5]	201726-002	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD outside acceptance criteria.
1065EX304[7.5]	201726-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX304[7.5]	201726-002	8260B	Acetone	67-64-1	J	Surrogate recovery was outside control limits.
DUP030608	201726-003	6010B	Lead	7439-92-1	J	Matrix spike sample RPD outside acceptance criteria.
DUP030608	201726-003	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery exceeded acceptance criteria.
DUP030608	201726-003	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD outside acceptance criteria.
DUP030608	201726-003	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD outside acceptance criteria.
DUP030608	201726-003	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX305[6.0]	201748-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX305[6.0]	201748-001	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX305[6.0]	201748-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX306[6.0]	201748-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX305[6.0]	201748-001	6010B	Antimony	7440-36-0	J-	Matrix spike recovery exceeded acceptance criteria.
1065EX306[6.0]	201748-002	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery exceeded acceptance criteria.
1065EX306[6.0]	201748-002	6010B	Cadmium	7440-43-9	U	Blank contamination.
1065EX306[6.0]	201748-002	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX306[6.0]	201748-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX303RB304	201749-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX303RB304	201749-001	8015M	TPH Diesel (C12-C24)	11-84-7	U	Blank contamination.
1065EX303RB304	201749-001	6010B	Zinc	7440-66-6	U	Blank contamination.
TB030608	201749-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.

RPD: Relative percent difference

Checked by MCO

Approved by KC

Table 1. Summary of Level II Data Validaton Qualifiers
March 19, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX307[6.0]	202043-001	6010B	Antimony	7440-36-0	J-	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX307[6.0]	202043-001	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX307[6.0]	202043-001	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX307[6.0]	202043-001	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX307[6.0]	202043-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX307[6.0]	202043-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX308[6.0]	202043-002	6010B	Antimony	7440-36-0	J-	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX308[6.0]	202043-002	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX308[6.0]	202043-002	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX308[6.0]	202043-002	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX308[6.0]	202043-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX308[6.0]	202043-002	8260B	Naphthalene	91-20-3	U	Blank contamination.
1065EX309[6.5]	202043-003	6010B	Antimony	7440-36-0	J-	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX309[6.5]	202043-003	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX309[6.5]	202043-003	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX309[6.5]	202043-003	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX309[6.5]	202043-003	8015M	TPH Fuel Oil (C24-C36)	S-FOC24C36	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	1,2,4-Trimethylbenzene	95-63-6	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	Naphthalene	91-20-3	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	p-Isopropyltoluene	99-87-6	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	sec-Butylbenzene	135-98-8	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	n-Butylbenzene	104-51-8	U	Blank contamination.
1065EX310[7.0]	202043-004	6010B	Antimony	7440-36-0	J-	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX310[7.0]	202043-004	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX310[7.0]	202043-004	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX310[7.0]	202043-004	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX310[7.0]	202043-004	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX310[7.0]	202043-004	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX311[8.5]	202043-005	6010B	Antimony	7440-36-0	J-	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX311[8.5]	202043-005	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX311[8.5]	202043-005	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX311[8.5]	202043-005	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX311[8.5]	202043-005	8260B	Naphthalene	91-20-3	U	Blank contamination.
DUP031908	202043-006	6010B	Antimony	7440-36-0	J-	Matrix spike and RPD recovery exceeded acceptance criteria.
DUP031908	202043-006	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.

Table 1. Summary of Level II Data Validaton Qualifiers
March 19, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
DUP031908	202043-006	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
DUP031908	202043-006	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
DUP031908	202043-006	8015M	TPH Fuel Oil (C24-C36)	S-FOC24C36	U	Blank contamination.
DUP031908	202043-006	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX312[6.0]	202043-007	6010B	Antimony	7440-36-0	J-	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX312[6.0]	202043-007	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX312[6.0]	202043-007	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX312[6.0]	202043-007	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX312[6.0]	202043-007	8015M	TPH Fuel Oil (C24-C36)	S-FOC24C36	U	Blank contamination.
1065EX312[6.0]	202043-007	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX312[6.0]	202043-007	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX312[6.0]	202043-007	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX313[4.5]	202043-008	6010B	Antimony	7440-36-0	J-	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX313[4.5]	202043-008	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX313[4.5]	202043-008	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX313[4.5]	202043-008	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX313[4.5]	202043-008	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX313[4.5]	202043-008	8260B	1,2,4-Trimethylbenzene	95-63-6	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	Naphthalene	91-20-3	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	p-Isopropyltoluene	99-87-6	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	sec-Butylbenzene	135-98-8	U	Blank contamination.
1065EX314[5.5]	202043-009	6010B	Antimony	7440-36-0	J-	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX314[5.5]	202043-009	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX314[5.5]	202043-009	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX314[5.5]	202043-009	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX314[5.5]	202043-009	8260B	Methylene chloride	75-09-2	U	Blank contamination.

RPD: Relative percent difference

Checked by MCS

Approved by KC

Table 1. Summary of Level II Data Validation Qualifiers
March 26, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX315[5.0]	202203-001	6010B	Lead	7439-92-1	J+	Matrix spike recovery and RPD outside acceptance criteria.
1065EX315[5.0]	202203-001	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery outside acceptance criteria.
1065EX315[5.0]	202203-001	6010B	Copper	7440-50-8	J+	Matrix spike recovery and RPD outside acceptance criteria.
1065EX315[5.0]	202203-001	6010B	Zinc	7440-66-6	J+	Matrix spike recovery and RPD outside acceptance criteria.
1065EX315[5.0]	202203-001	6010B	Nickel	7440-02-0	J-	Matrix spike recovery outside acceptance criteria.
1065EX315[5.0]	202203-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX315[5.0]	202203-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.

RPD: Relative percent difference

Checked by MCH

Approved by KA

Table 1. Summary of Level II Data Validation Qualifiers
May 9, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX368[8.0]	203210-001	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery outside acceptance criteria.
1065EX368[8.0]	203210-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX369[8.0]	203210-002	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery outside acceptance criteria.
1065EX369[8.0]	203210-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX369[8.0]	203210-002	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX370[8.0]	203210-003	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery outside acceptance criteria.
1065EX370[8.0]	203210-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX370[8.0]	203210-003	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
DUP050908	203210-004	6010B	Antimony	7440-36-0	UJ	Matrix spike recovery outside acceptance criteria.
DUP050908	203210-004	8260B	Methylene chloride	75-09-2	U	Blank contamination.
DUP050908	203210-004	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.

Checked by mcs

Approved by KC

Table 1. Summary of Level II Data Validation Qualifiers
May 13, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX371[8.0]	203251-003	6010B	Antimony	7440-36-0	J-	Matrix spike recovery outside acceptance criteria.
1065EX371[8.0]	203251-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX371[8.0]	203251-003	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.

Checked by MCH

Approved by KC

Level IV Data Validation Report

MACTEC

DATE: April 24, 2008
TO: Mary Jo Heassler, Senior Geologist
FROM: Kristen Carlyon, Senior Environmental Scientist
SUBJECT: Summary of Level IV Data Validation – March 19, 2008 Confirmation Soil Sampling, Building 1065, Presidio of San Francisco, California
PROJECT#: 4084075115

DATA REVIEW SUMMARY REPORT FOR PRESIDIO BUILDING 1065

CURTIS & TOMPKINS REPORT NO. 202043

SAMPLING DATE: 03/19/08

Level IV validation of the submitted data package was performed according to the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and
- *Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan*, April, 2001.

The data were reviewed for holding times, blanks, surrogate recoveries, laboratory control samples/laboratory control spike duplicates (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicate samples, GC/MS tunes, system performance, ICP interference check standards, ICP serial dilutions, initial calibrations, initial and continuing calibration verification (ICV/CCV) standards, internal standards, field QC samples, and compound identification and quantitation. In addition, the sample results, target compound lists, and detection limits were reviewed to verify that project analytical requirements were met.

The following table presents the field sample identification (ID), the corresponding laboratory sample ID, and the test method requested for each sample according to the chain-of-custody records:

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX307[6.0]	202043-001	EPA 8260B, 8270C-SIM, 8015B, 6010, 7471A

Field Sample ID	Laboratory Sample ID	Requested Test Method
1065EX308[6.0]	202043-002	EPA 8260B, 8270C-SIM, 8015B, 6010, 7471A
1065EX309[6.5]	202043-003	EPA 8260B, 8270C-SIM, 8015B, 6010, 7471A
1065EX310[7.0]	202043-004	EPA 8260B, 8270C-SIM, 8015B, 6010, 7471A
1065EX311[8.5]	202043-005	EPA 8260B, 8270C-SIM, 8015B, 6010, 7471A
DUP031908	202043-006	EPA 8260B, 8270C-SIM, 8015B, 6010, 7471A
1065EX312[6.0]	202043-007	EPA 8260B, 8270C-SIM, 8015B, 6010, 7471A
1065EX313[4.5]	202043-008	EPA 8260B, 8270C-SIM, 8015B, 6010, 7471A
1065EX314[5.5]	202043-009	EPA 8260B, 8270C-SIM, 8015B, 6010, 7471A

GENERAL COMMENTS:

Documentation that sample custody was maintained was present on the chain-of-custody form.

The following paragraphs highlight the essential findings of the data validation effort:

VOLATILE ORGANIC COMPOUNDS (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections B and I.

A. **Holding Times**

The technical holding time criteria was met for all project samples.

B. **Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC433729 had detected levels of methylene chloride, naphthalene, and 1,2,3-trichlorobenzene at 0.78 µg/Kg, 2.0 µg/Kg, and 0.7 µg/Kg, respectively. The results for methylene chloride and naphthalene in the associated samples were changed to non-detect (U) since the values were less than ten times the blank amount for methylene chloride and five times the blank amount for naphthalene.

2. Soil method blank QC433939 had detected levels of methylene chloride, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, para-isopropyl toluene, n-butylbenzene, and naphthalene at 7.0 µg/Kg, 0.72 µg/Kg, 0.58 µg/Kg, 0.66 µg/Kg, 0.69 µg/Kg, 0.55 µg/Kg, and 0.98 µg/Kg, respectively. The results for methylene chloride, 1,2,4-trimethylbenzene, sec-butylbenzene, para-isopropyl toluene, n-butylbenzene, and naphthalene in the associated samples were changed to non-detect (U) if those values were less than ten times the blank amount for methylene chloride and five times the blank amount for all other compounds. Qualification for tert-butylbenzene was not required due to non-detected results in the associated samples.

3. Although not detected in any of the method blanks, acetone has been commonly found as a contaminant in the laboratory. Acetone was detected in the dilutions of samples 1065EX309[6.5], 1065EX312[6.0], and 1065EX313[4.5]. It is the opinion of the reviewer that the acetone detected in these samples was introduced during the preparation and should be considered a laboratory artifact. As a result, the results for acetone in samples 1065EX309[6.5], 1065EX312[6.0], and 1065EX313[4.5] were changed to non-detect (U).

See Table 1 of this report for a summary of qualifications due to method blank and laboratory contamination.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **GC/MS Tunes**
QC criteria were met for all GC/MS tunes associated with the project samples.

H. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

I. **Continuing Calibration**
Continuing calibration criteria were met for all CCV standards associated with the project samples, with the following exceptions:

1. The CCV standard analyzed 3/21/08 at 9:12 on instrument MSVOA04 had three compounds with percent differences (%Ds) exceeding the ±20% acceptance criteria: Freon 12 (-26%), methylene chloride (+24%), and hexachlorobutadiene (-28%). The results for Freon 12 and hexachlorobutadiene in the associated samples were qualified as estimated (UJ). The results for methylene chloride were previously changed to non-detect and further qualification was not required.

2. The CCV standard analyzed 3/20/08 at 9:00 on instrument MSVOA05 had two compounds with %Ds exceeding the ±20% acceptance criteria: bromomethane (+21%) and Freon 113 (-23%). The results for Freon 113 in the associated samples were qualified as estimated (UJ). The results for bromomethane were non-detect and qualification was not required.

See Table 1 of this report for a summary of qualifications due to CCV standard %D failures.

J. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

K. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

L. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

M. **Compound Identification and Quantitation**
All samples analyzed for volatile organic compounds in laboratory sample delivery group 202043 received full (Level IV) validation. This included the re-calculation of surrogate values, GC/MS tunes, initial and continuing calibrations, internal standards, and sample results. The results were re-calculated and verified as correctly reported by the laboratory.

N. **Reporting Limits**

The laboratory reporting limits for VOCs in soil matrix samples met the project-required reporting limits, with the following exceptions:

1. The laboratory reporting limits for vinyl chloride and 1,2-dichloroethane in soil matrix samples did not meet the cleanup levels of 6.7 µg/Kg and 5.0 µg/Kg, respectively. Samples were J-flagged to the method detection limits (MDLs) and MDLs meet required limits.
2. Samples 1065EX309[6.5] and 1065EX313[4.5] were analyzed at dilutions due to the presence of total petroleum hydrocarbons. The reporting limits were raised by the dilution factor and some sample results were non-detect at the raised reporting limits.
3. It should be noted that the reporting limits for all soils were raised due to dry weight correction. This resulted in reporting limits above the CUL for Benzene in samples 1065EX308[6.0], 1065EX311[8.5], and DUP031908. Samples were J-flagged to the MDL and MDLs meet required limits.
4. It should be noted that results below the laboratory reporting limits but above the method detection limits (MDLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) by GC/MS-SIM (8270C-SIM)

Overall, the data are usable as reported. Qualifications were not required.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. A percent recovery for the surrogate nitrobenzene-d5 failed the 23-120% laboratory acceptance criteria in sample 1065EX313[4.5] at 226%. Qualification of semivolatile data associated with only one surrogate outlier is not required.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **GC/MS Tunes**
QC criteria were met for all GC/MS tunes associated with the project samples.

H. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

I. **Continuing Calibration**
Continuing calibration criteria were met for all CCV standards associated with the project samples.

J. **Internal Standards**
Internal standard areas and retention times met QC acceptance criteria for all project samples.

K. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group.

L. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

M. **Compound Identification and Quantitation**
All samples analyzed for PAHs in laboratory sample delivery group 202043 received full (Level IV) validation. This included the re-calculation of surrogate values, GC/MS tunes, initial and continuing calibrations, internal standards, and sample results. The results were re-calculated and verified as correctly reported by the laboratory.

N. **Reporting Limits**

The laboratory reporting limits for PAHs in soil matrix met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. Sample 1065EX311[8.5] was analyzed at a dilution due to a dark, viscous extract matrix. The reporting limits were raised by the dilution factor and some sample results were non-detect at the raised reporting limits.
3. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as GASOLINE (8015B)

Overall, the data are usable as reported. Qualifications were required for the reasons noted in Sections B and C.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Soil method blank QC433865 had a detected level of gasoline at 0.018 mg/Kg. The results for gasoline in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.

2. Soil method blank QC434086 had a detected level of gasoline at 0.08 mg/Kg. The results for gasoline in the associated samples were greater than five times the blank amount and qualification was not required.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. A percent recovery for the surrogate bromofluorobenzene failed the 65-135% project-required acceptance criteria in sample 1065EX313[4.5] at 171%. The detected result was qualified as estimated (J).

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for gasoline failed the 65-135% project-required acceptance criteria in QC samples 201977-003 MS/MSD at 4%/299%. The relative percent difference for gasoline failed the less than 35% project-required acceptance criteria in the same samples. The parent sample was unrelated to the project site and qualification of the data was not required.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group with the following exception:

1. In field duplicates 1065EX311[8.5] and DUP031908, the absolute difference between the results was greater than two times the reporting limit for gasoline. The original result for gasoline was 0.87 mg/Kg and the duplicate was 1.7 mg/Kg.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the field duplicate pairs listed above may be due to the sample matrix, sampling or laboratory technique, or method defects. Since

the effect of the quality of the data is not known, data is not qualified for field duplicate failure.

J. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

K. **Compound Identification and Quantitation**
All samples analyzed for TPH-gasoline in laboratory sample delivery group 202043 received full (Level IV) validation. This included the re-calculation of surrogate values, initial and continuing calibrations, and sample results. The results were re-calculated and verified as correctly reported by the laboratory.

L. **Reporting Limits**

The laboratory reporting limits for gasoline in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. Samples 1065EX309[6.5] and 1065EX313[4.5] were analyzed at dilutions due to the presence of total petroleum hydrocarbons. The reporting limits were raised by the dilution factors.
3. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

TOTAL PETROLEUM HYDROCARBONS as DIESEL and MOTOR OIL (8015B)
Overall, the data are usable as reported. Qualification was required for the reason noted in Section B.

A. **Holding Times**
The technical holding time criteria was met for all project samples.

B. **Blanks**
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exception:

1. Soil method blank QC433676 had a detected level of motor oil at 0.83 mg/Kg. The results for motor oil in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.

C. **Surrogate Recoveries**
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

E. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

F. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples.

G. **Initial Calibration**
Initial calibration criteria were met for all calibrations associated with the project samples.

H. **Initial and Continuing Calibration Verifications**
Calibration verification criteria were met for all ICV/CCV standards associated with the project samples.

I. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group with the following exception:

1. In field duplicates 1065EX311[8.5] and DUP031908, the absolute differences between the results for diesel and motor oil were greater than two times the reporting limits. The original result for diesel was 11 mg/Kg and the duplicate was 0.47 mg/Kg. The original result for motor oil was 73 mg/Kg and the duplicate was changed to non-detect at 2.9 mg/Kg due to method blank contamination.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the field duplicate pairs listed above may be due to the sample matrix, sampling or laboratory technique, or method defects. Since the effect of the quality of the data is not known, data is not qualified for field duplicate failure.

J. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with this sample delivery group.

K. **Compound Identification and Quantitation**
All samples analyzed for TPH-diesel and TPH-fuel oil/motor oil in laboratory sample delivery group 202043 received full (Level IV) validation. This included the re-calculation of surrogate values, initial and continuing calibrations, and sample results. The results were re-calculated and verified as correctly reported by the laboratory.

L. **Reporting Limits**

The laboratory reporting limits for diesel and fuel oil/motor oil in soil matrix met the project-required reporting limits.

1. It should be noted that the reporting limit for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the MDLs are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

METALS (6010B/7471A)

Overall, the data are usable as reported. Qualifications were required for the reasons in Sections B, E, and G.

A. Holding Times

The technical holding time criteria was met for all project samples.

B. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exceptions:

1. Solid method blank QC43383 had a detected level zinc at 0.20 mg/kg. The results for zinc in the associated samples were greater than five times the blank amounts, and qualification was not required.

2. The 3/21/08 at 00:39 continuing calibration blank (CCB) analyzed on instrument MET09 had a detected level of cadmium at 0.343 µg/L. The values were converted to solid matrix units, and the project samples were evaluated for blank contamination. The results for cadmium in the associated sample were changed to non-detect (U) if those values were less than five times the CCB amount.

3. The 3/21/08 at 02:36 CCB analyzed on instrument MET09 had detected levels of several elements. The values were converted to solid matrix units, and the project samples were evaluated for blank contamination. The results for antimony and cadmium in the associated sample were changed to non-detect (U) since those values were less than five times the CCB amounts.

4. The 3/21/08 at 03:19 CCB analyzed on instrument MET09 had detected levels of several elements. The values were converted to solid matrix units, and the project samples were evaluated for blank contamination. The levels of all detected elements in the associated samples were either non-detected or greater than five times the blank amounts and qualification was not required.

See Table 1 of this report for a summary of qualifications due to method and calibration blank contamination.

C. **Laboratory Control Samples/ Laboratory Control Sample Duplicates**
QC criteria were met for the laboratory control samples associated with the project samples.

D. **Laboratory Duplicate Samples**
Laboratory duplicate samples were not analyzed with the project samples. Precision of the analytical method was demonstrated in the analysis of laboratory control spike/laboratory control spike duplicate and matrix spike/matrix spike duplicate samples.

E. **Matrix Spike / Matrix Spike Duplicate**
QC criteria were met for the matrix spike and matrix spike duplicate samples associated with the project samples, with the following exceptions:

1. Percent recoveries for antimony, copper, and zinc failed the 75-125% project QC criteria in QC samples 1065EX307[6.0] MS/MSD at 46/32%, -6/413%, and -60/268%, respectively. In addition, the relative percent differences (RPDs) for antimony, barium, copper, and zinc exceeded the 30% project-specific acceptance criteria at 36%, 164%, 116%, and 91%, respectively. Post-digest spike recoveries met the method-specific acceptance criteria of 75-125% with the exception of antimony. The results for antimony in the associated project samples were qualified as estimated (J-/UJ). The results for copper and zinc were qualified as estimated (J+). The results for antimony, barium, copper, and zinc were qualified as estimated (J/UJ). See Table 1 of this report for a summary of qualifications due to matrix spike percent recovery and RPD failures.

F. **ICP Interference Check Standards**
All QC criteria were met for the ICP interference check standards associated with the project samples, with the following exceptions:

1. A detected result was observed for antimony in interference check sample A (ICSA). Similar levels of antimony were observed in the associated samples. In addition, similar concentrations of the interferent iron, were observed in the the associated samples. As a result, the results for antimony in samples 1065EX307[6.0] and 1065EX309[6.5] were qualified as estimated with a high bias (J+).

G. **ICP Serial Dilution**
All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. A percent difference for lead failed the less than 10% method-specific QC criteria in the serial dilution of sample 1065EX307[6.0] at 11%. The results for lead were qualified as estimated (J/UJ) in the associated samples. See Table 1 of this report for a summary of qualifications due to serial dilution outliers.

H. **Initial and Continuing Calibrations**
All initial and continuing calibrations standards associated with the project samples met QC acceptance criteria.

I. **Field QC Samples – Field Blanks**
Field QC blanks were not associated with the project samples.

J. **Field QC Samples – Field Duplicates**
QC criteria were met for the field duplicate samples identified within this sample delivery group, with the following exceptions:

1. In field duplicates 1065EX311[8.5] and DUP031908, the RPDs between the results for lead and zinc were greater than the 50% acceptance criteria at 188% and 147%, respectively. In addition, the absolute difference between results for arsenic was greater than two times the reporting limit. The original result for arsenic was 2.1 mg/Kg and the duplicate was 0.76 mg/Kg.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the field duplicate pairs listed above may be due to the sample matrix, sampling or laboratory technique, or method defects. Since the effect of the quality of the data is not known, data is not qualified for field duplicate failure.

K. **Compound Identification and Quantitation**
All samples analyzed for metals in laboratory sample delivery group 202043 received full (Level IV) validation. This included the re-calculation of initial and continuing calibrations and sample results. The results were re-calculated and verified as correctly reported by the laboratory.

L. **Reporting Limits**

The laboratory reporting limits for metals in water and soil matrices met the project-required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. It should be noted that results below the laboratory reporting limits but above the method detection limits are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection. All results below the laboratory reporting limits are considered estimated values and flagged "J" by the laboratory.

SUMMARY

The attached Table 1 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

Quality control criteria were met and the data were considered acceptable. Based upon the Level IV data validation, results are considered valid and usable for project purposes.

Review performed by: Mary Hart

Mary Hart
Project Database Analyst

Reviewed by: Kristen A. Carlyon

Kristen Carlyon
Senior Environmental Scientist

Table 1. Summary of Level IV Data Validaton Qualifiers
March 19, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX307[6.0]	202043-001	6010B	Antimony	7440-36-0	J	MS recovery and RPD exceeded acceptance criteria; ICP interference.
1065EX307[6.0]	202043-001	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX307[6.0]	202043-001	6010B	Cadmium	7440-43-9	U	Blank contamination.
1065EX307[6.0]	202043-001	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX307[6.0]	202043-001	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX307[6.0]	202043-001	6010B	Lead	76-13-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX307[6.0]	202043-001	8015M	TPH Gasoline (C7-C12)	8006-61-9	U	Blank contamination.
1065EX307[6.0]	202043-001	8260B	Freon 113	76-13-1	UJ	Associated continuing calibration showed elevated %D
1065EX307[6.0]	202043-001	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX308[6.0]	202043-002	6010B	Antimony	7440-36-0	UJ	Blank contamination; MS recovery and RPD exceeded acceptance criteria.
1065EX308[6.0]	202043-002	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX308[6.0]	202043-002	6010B	Cadmium	7440-43-9	U	Blank contamination.
1065EX308[6.0]	202043-002	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX308[6.0]	202043-002	6010B	Lead	76-13-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX308[6.0]	202043-002	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX308[6.0]	202043-002	8260B	Freon 113	76-13-1	UJ	Associated continuing calibration showed elevated %D
1065EX308[6.0]	202043-002	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX308[6.0]	202043-002	8260B	Naphthalene	91-20-3	U	Blank contamination.
1065EX309[6.5]	202043-003	6010B	Antimony	7440-36-0	J	MS recovery and RPD exceeded acceptance criteria; ICP interference.
1065EX309[6.5]	202043-003	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX309[6.5]	202043-003	6010B	Cadmium	7440-43-9	U	Blank contamination.
1065EX309[6.5]	202043-003	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX309[6.5]	202043-003	6010B	Lead	76-13-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX309[6.5]	202043-003	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX309[6.5]	202043-003	8015M	TPH Fuel Oil (C24-C36)	S-FOC24C36	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	Freon 12	75-71-8	UJ	Associated continuing calibration showed elevated %D
1065EX309[6.5]	202043-003	8260B	1,2,4-Trimethylbenzene	95-63-6	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	Naphthalene	91-20-3	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	p-Isopropyltoluene	99-87-6	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	sec-Butylbenzene	135-98-8	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	n-Butylbenzene	104-51-8	U	Blank contamination.
1065EX309[6.5]	202043-003	8260B	Hexachlorobutadiene	87-68-3	UJ	Associated continuing calibration showed elevated %D
1065EX310[7.0]	202043-004	6010B	Antimony	7440-36-0	UJ	Blank contamination; MS recovery and RPD exceeded acceptance criteria.
1065EX310[7.0]	202043-004	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX310[7.0]	202043-004	6010B	Cadmium	7440-43-9	U	Blank contamination.
1065EX310[7.0]	202043-004	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.

Table 1. Summary of Level IV Data Validaton Qualifiers
March 19, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX310[7.0]	202043-004	6010B	Lead	76-13-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX310[7.0]	202043-004	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX310[7.0]	202043-004	8260B	Freon 113	76-13-1	UJ	Associated continuing calibration showed elevated %D
1065EX310[7.0]	202043-004	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX310[7.0]	202043-004	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX311[8.5]	202043-005	6010B	Antimony	7440-36-0	UJ	Blank contamination; MS recovery and RPD exceeded acceptance criteria.
1065EX311[8.5]	202043-005	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX311[8.5]	202043-005	6010B	Cadmium	7440-43-9	U	Blank contamination.
1065EX311[8.5]	202043-005	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX311[8.5]	202043-005	6010B	Lead	76-13-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX311[8.5]	202043-005	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX311[8.5]	202043-005	8260B	Freon 113	76-13-1	UJ	Associated continuing calibration showed elevated %D
1065EX311[8.5]	202043-005	8260B	Naphthalene	91-20-3	U	Blank contamination.
DUP031908	202043-006	6010B	Antimony	7440-36-0	UJ	Blank contamination; MS recovery and RPD exceeded acceptance criteria.
DUP031908	202043-006	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
DUP031908	202043-006	6010B	Cadmium	7440-43-9	U	Blank contamination.
DUP031908	202043-006	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
DUP031908	202043-006	6010B	Lead	76-13-1	J	Serial dilution percent difference outside acceptance criteria.
DUP031908	202043-006	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
DUP031908	202043-006	8015M	TPH Fuel Oil (C24-C36)	S-FOC24C36	U	Blank contamination.
DUP031908	202043-006	8260B	Freon 113	76-13-1	UJ	Associated continuing calibration showed elevated %D
DUP031908	202043-006	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX312[6.0]	202043-007	6010B	Antimony	7440-36-0	UJ	Blank contamination; MS recovery and RPD exceeded acceptance criteria.
1065EX312[6.0]	202043-007	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX312[6.0]	202043-007	6010B	Cadmium	7440-43-9	U	Blank contamination.
1065EX312[6.0]	202043-007	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX312[6.0]	202043-007	6010B	Lead	76-13-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX312[6.0]	202043-007	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX312[6.0]	202043-007	8015M	TPH Fuel Oil (C24-C36)	S-FOC24C36	U	Blank contamination.
1065EX312[6.0]	202043-007	8015M	TPH Gasoline (C7-C12)	75-71-8	U	Blank contamination.
1065EX312[6.0]	202043-007	8260B	Freon 113	76-13-1	UJ	Associated continuing calibration showed elevated %D
1065EX312[6.0]	202043-007	8260B	Methylene chloride	87-68-3	U	Blank contamination.
1065EX312[6.0]	202043-007	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX313[4.5]	202043-008	6010B	Antimony	7440-36-0	UJ	Blank contamination; MS recovery and RPD exceeded acceptance criteria.
1065EX313[4.5]	202043-008	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX313[4.5]	202043-008	6010B	Cadmium	7440-43-9	U	Blank contamination.
1065EX313[4.5]	202043-008	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX313[4.5]	202043-008	6010B	Lead	76-13-1	J	Serial dilution percent difference outside acceptance criteria.

Table 1. Summary of Level IV Data Validaton Qualifiers
March 19, 2008, Soil Confirmation Sampling Building 1065
Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	CAS Number	Qualifier	Reason
1065EX313[4.5]	202043-008	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX313[4.5]	202043-008	8015M	TPH Gasoline (C7-C12)	8006-61-9	J	Surrogate recovery was outside control limits.
1065EX313[4.5]	202043-008	8260B	1,2,4-Trimethylbenzene	95-63-6	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	Acetone	67-64-1	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	Methylene chloride	75-09-2	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	Naphthalene	91-20-3	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	p-Isopropyltoluene	99-87-6	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	sec-Butylbenzene	135-98-8	U	Blank contamination.
1065EX313[4.5]	202043-008	8260B	Freon 12	75-71-8	UJ	Associated continuing calibration showed elevated %D
1065EX313[4.5]	202043-008	8260B	Hexachlorobutadiene	87-68-3	UJ	Associated continuing calibration showed elevated %D
1065EX314[5.5]	202043-009	6010B	Antimony	7440-36-0	UJ	Blank contamination; MS recovery and RPD exceeded acceptance criteria.
1065EX314[5.5]	202043-009	6010B	Barium	7440-39-3	J	Matrix spike sample RPD recovery exceeded acceptance criteria.
1065EX314[5.5]	202043-009	6010B	Copper	7440-50-8	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX314[5.5]	202043-009	6010B	Lead	76-13-1	J	Serial dilution percent difference outside acceptance criteria.
1065EX314[5.5]	202043-009	6010B	Zinc	7440-66-6	J	Matrix spike and RPD recovery exceeded acceptance criteria.
1065EX314[5.5]	202043-009	8260B	Freon 12	75-71-8	UJ	Associated continuing calibration showed elevated %D
1065EX314[5.5]	202043-009	8260B	Hexachlorobutadiene	87-68-3	UJ	Associated continuing calibration showed elevated %D
1065EX314[5.5]	202043-009	8260B	Methylene chloride	75-09-2	U	Blank contamination.

APPENDIX J1

MONITORING WELL DESTRUCTION, INSTALLATION, AND DEVELOPMENT, BUILDING 1065 AREA, PRESIDIO OF SAN FRANCISCO, CALIFORNIA

Reviewed by __MJH__

Treadwell&Rollo

15 June 2007
Project No. 2893.65

The Presidio Trust
Attn: Genevieve Coyle, Environmental Remediation Specialist
Attn: Mr. Ryan Seelbach, Environmental Remediation Specialist
Post Office Box 29052
67 Martinez Street
San Francisco, CA 94129

Subject: Monitoring Well Destruction, Installation, and Development
Building 1065 Area
The Presidio of San Francisco, San Francisco, California

Dear Mr. Seelbach:

Treadwell & Rollo, Inc. (Treadwell and Rollo) is pleased to submit this report documenting the destruction of monitoring wells 1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B and the installation of replacement well 1065MW103A for the Building 1065 Area (Site) at the Presidio of San Francisco (Presidio) (Figure 1). Monitoring wells 1065PZ1A and 1065PZ1B were located in the triangular-shaped parking lot in north of Building 1063 on Gorgas Avenue in the Presidio. Monitoring wells 1065MW9A and 1065MW9B were located in a roadway south of Building 1063 (Figure 1). It is our understanding that the monitoring wells were located within the boundaries of a remedial excavation that is scheduled by the Presidio Trust (Trust) to take place in the near future. A replacement well (1065MW103A) was installed approximately 20 feet northeast of the former location of monitoring well 1065PZ1B, outside of the excavation boundaries. The well destruction and installation were conducted as part of the Second Quarter 2007 Presidio-wide Groundwater Monitoring activities and prior to the Second Quarter 2007 groundwater monitoring event. A brief description of the monitoring well destruction, installation, and development activities performed at the Site is included below.

Monitoring Well Destruction

On 30 May 2007, prior to the destruction of well, the surface concrete seal at wells 1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B was broken out to remove the well box and expose the top of the well casing. All wells were in good condition prior to the destruction activities.

Monitoring wells 1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B were destroyed by over-drilling. The wells were over-drilled using a track-mounted drill rig equipped with 8-inch-diameter hollow-stem augers to total depths of 9, 22, 16, and 32 feet below ground surface (bgs), respectively. The well casings were removed intact after the annular seal had been removed by the augers. The resulting soil boring was filled to ground surface with a neat cement slurry grout by tremie method from the bottom of the boring to the ground surface. All well destruction activities were performed by Gregg Drilling and Testing of Martinez, California, under the observation of a Treadwell and Rollo field geologist. The monitoring well materials and soil cuttings associated with the abandonment were contained in 55-gallon drums and were stored onsite in Building 1063, as requested by the Trust. Well abandonment records are included as Attachment A. Well completion reports for the abandonment of monitoring wells 1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B were submitted to the State of California's Department of Water Resources on 14 June 2007 (Attachment B).

Monitoring Well Installation

Before drilling activities began, an excavation permit was obtained by the Trust and Underground Services Alert (USA) was notified. Prior to drilling, a pilot hole was advanced to 5 feet bgs using a hand auger to ensure that no underground utilities were present at the boring location.

On 30 May 2007, Treadwell & Rollo observed the installation of one monitoring well (1065MW103A) using a track-mounted drill rig equipped with 8-inch-diameter hollow-stem augers. In order to install the monitoring well, the soil boring was advanced below the water table to total depth of 9.0 feet bgs at the request of the Trust. The materials encountered in the boring were logged according to the Unified Soil Classification System by a Treadwell & Rollo field geologist under the review of a California-registered geologist. All drilling activities were performed by Gregg Drilling and Testing, Inc. The boring log and well construction diagram for 1065MW103A are included in Attachment C.

During drilling, soil samples were continuously collected for lithologic description purposes. Soil samples were collected using a 1.5-foot-long split-spoon sampler lined with three 2-inch diameter by 6-inch-long stainless steel sample tubes. The sampler was driven 18 inches ahead of the augers at each sample point. No soil samples were retained for chemical analyses.

An organic vapor meter (photoionization detector [PID]) was used to field-screen the soil samples for volatile organic compounds (VOCs). No organic vapors were detected.

The monitoring well was constructed of 2-inch-diameter Schedule 40 PVC casing with flush threads and 0.010-inch-slot well screen. The well screen for well 1065MW103A was installed from approximately 4 feet to 9 feet bgs. Blank well casing was installed from the top of the screened casing to the ground surface. A sand filter pack (No. 2/12 sand) was installed in the borehole annulus from the bottom to approximately 1 foot above the screened casing. A 2-foot-thick seal of hydrated bentonite pellets was placed above the sand filter pack. The remainder of the borehole annulus was sealed with a neat cement grout. A locking water-tight well cap was placed on the well casing, and a traffic-rated manhole vault was installed to protect the wellhead and to prevent water from entering the well box. Well construction details are shown on the boring log (Attachment C). Well completion reports for the installation of monitoring well 1065MW103A were submitted to the State of California's Department of Water Resources on 14 June 2007 (Attachment B).

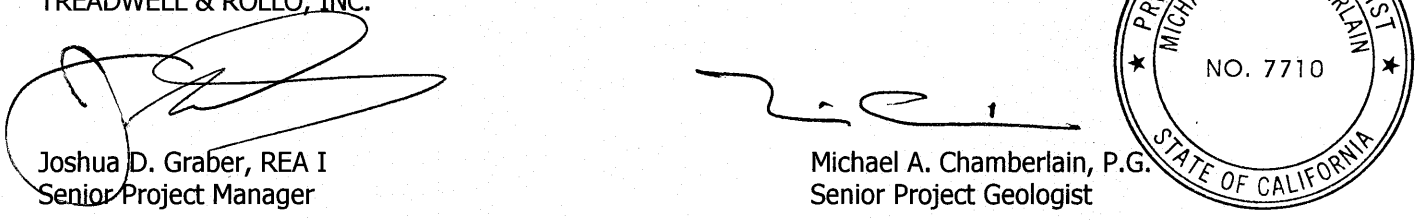
Monitoring Well Development

On 1 June 2007, monitoring well 1065MW103A was developed by Blaine Tech Services of San Jose, California (Blaine Tech) using surge and pumping methods, in accordance with the Presidio Trust's *Monitoring Well Development Standard Operating Procedure*. After surging the well with a 2-inch surge block for approximately 15 minutes, the well was purged using a positive air displacement (PAD) pump. Water quality measurements including temperature, pH, conductivity, and turbidity were recorded at each casing volume removed. The well was dewatered after approximately 3 casing volumes. After dewatering, the pump was removed and the well was allowed to recharge. After approximately 30 minutes, the well was surged again for 10 minutes, and pumping and water quality measurements resumed. Development was completed after the well was surged and dewatered three times, approximately 12 casing volumes had been removed, and water quality parameters had reached stability. The resulting well development water was transported to Central Magazine by Blaine Tech and temporarily stored in one of the 2800-gallon water tanks pending analytical testing and discharge. Monitoring well development field data is presented in Attachment D.

On 12 June 2007, Chaudhary Inc., a California-licensed land surveyor, surveyed the location and elevation of the top of the casing for the newly installed monitoring well. The survey coordinates and top of casing elevation will be added to the quarterly groundwater monitoring well network database and will be presented in the next quarterly monitoring report.

If you have any questions after reviewing this report, please call Joshua Graber at (415) 955-9040.

Sincerely yours,
TREADWELL & ROLLO, INC.



Joshua D. Graber, REA I
Senior Project Manager

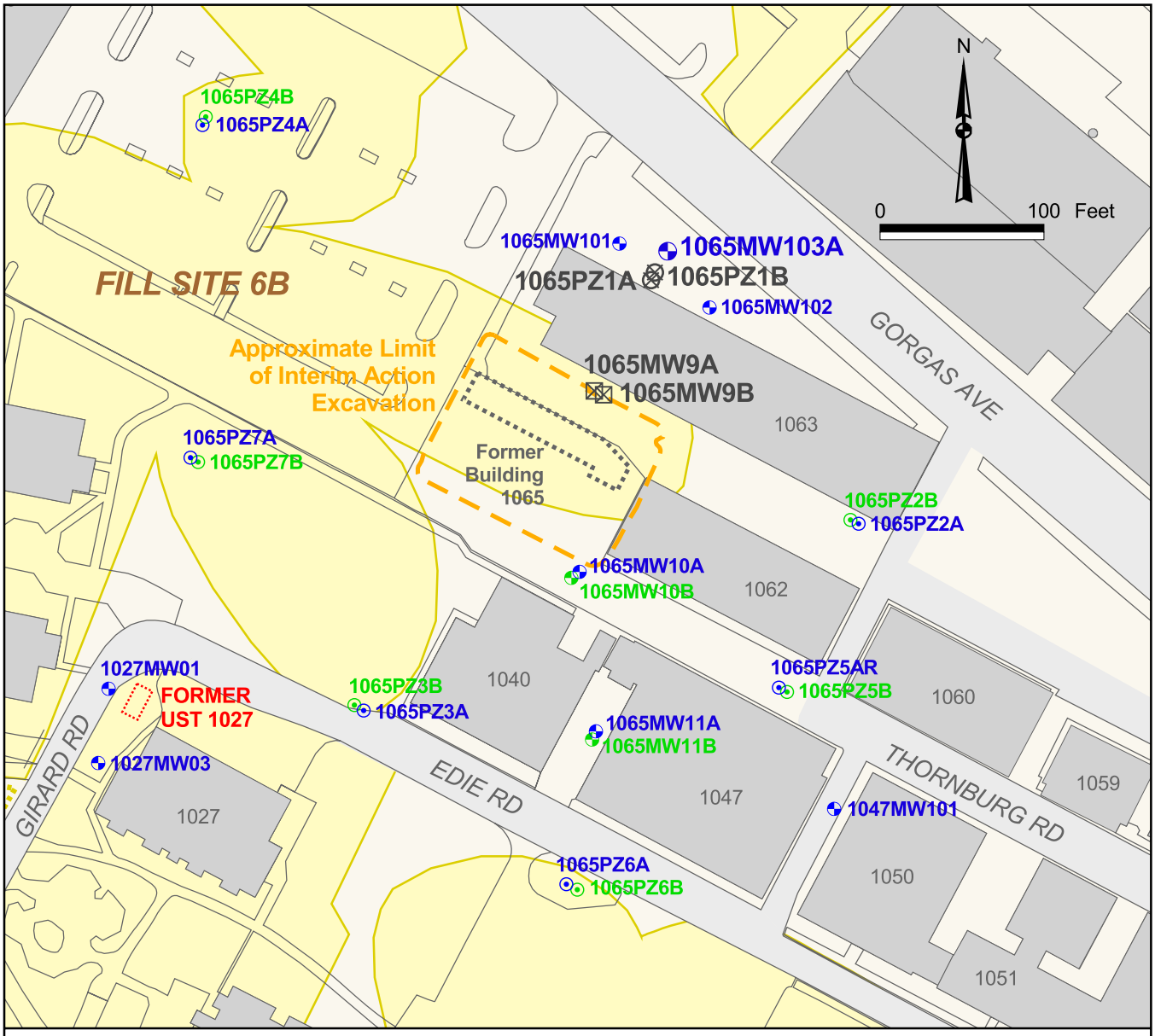
Michael A. Chamberlain, P.G.
Senior Project Geologist

28936501.JDG

Enclosures:

Figure 1:	Site Plan
Attachment A:	Well Abandonment Records
Attachment B:	Boring Log and Well Construction Diagram
Attachment C:	Monitoring Well Development Data Sheets

FIGURE 1



LEGEND

1065MW103A	Shallow Groundwater Monitoring Well installed on 30 May 2007 (approximate location)
☒ 1065MW9A	Monitoring Well abandoned on 30 May 2007
⊠ 1065PZ1A	Piezometer abandoned on 30 May 2007
1027MW01	Shallow Groundwater Monitoring Well
1065PZ2A	Shallow Piezometer
1065PZ2B	Intermediate Piezometer

Notes:
Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)

Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.

Former Building Outline

Approximate Lateral Extent of Fill Site 6B

1063 Building and Number

SITE PLAN

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
June 2007

FIGURE 1

Treadwell & Rollo PRESIDIO\2893_65\BUILDING_1065.APR 06/2007

ATTACHMENT A

Well Abandonment Records

MONITORING WELL ABANDONMENT RECORD

1.0 Monitoring Well Construction Details

Well No.: 1065 P21A
Well Permit No.: N/A
Installation Date: 4/16/97
Drilling Contractor: —

Easting Location: —
Northing Location: —
TOC Elevation (ft. LLW): —
Surface Elevation (ft. LLW): —
Drilling Method: HSA

Depth of Boring (ft): 9'
Casing Material: Sch 40 PVC
Casing Length (ft): 8
Screen Slot Size (in): 010"
Filter Pack Interval: 3'-9'
Sanitary Seal Interval: _____
Surface Seal Interval: _____
Conductor Casing: (Y / (N))
Conductor Length (ft): —

Boring Diameter (in): 8"
Casing Diameter (in): 2"
Screen Interval: 4'-8'
Filter Pack Material: #2/12 sand
Sanitary Seal Material: Grout
Surface Seal Material: Cement
Conductor Material: —
Conductor Diameter (in): —

2.0 Monitoring Well Destruction Details

Destruction Permit No.: NA
Destruction Date: 5/30/07
Depth to Groundwater (ft. below TOC): 7'
Drilling Contractor: Gregg
Destruction Method: over drill
Condition of Well: Good

2.1 Over-drill Method

Depth of Boring (ft): 9'
Seal Material: grout
Casing Removed Intact: (Y) (N)

Boring Diameter (in): 8"
Seal Interval: 0-9'
Casing Removed Intact: (Y) / N)

2.2 Pressure Grout Method

Depth of Boring (ft): _____
Grout Volume (gals.): _____
Duration of Sustained Grout Pressure (mins.): _____

Grout Material: _____
Sustained Grout Pressure (psi): _____

2.3 Other: _____

MONITORING WELL ABANDONMENT RECORD

1.0 Monitoring Well Construction Details

Well No.: 1065PZ1B
Easting Location: —
Northing Location: —
Well Permit No.: NA
TOC Elevation (ft. LLW): —
Installation Date: 4/16/97
Surface Elevation (ft. LLW): —
Drilling Contractor: —
Drilling Method: HSA

Depth of Boring (ft): 22
Boring Diameter (in): 8"
Casing Material: Sch 40 PVC
Casing Diameter (in): 2"
Casing Length (ft): 21'
Screen Interval: 16-21'
Screen Slot Size (in): .010"
Filter Pack Material: #2/12 Sand
Filter Pack Interval: 15'-22'
Sanitary Seal Material: Grout
Sanitary Seal Interval: —
Surface Seal Material: cement
Surface Seal Interval: —
Conductor Casing: (Y / (N))
Conductor Material: —
Conductor Length (ft): —
Conductor Diameter (in): —

2.0 Monitoring Well Destruction Details

Destruction Permit No.: NA
Destruction Date: 5/30/07
Depth to Groundwater (ft. below TOC): 1.75'
Drilling Contractor: Gregg
Destruction Method: over drill
Condition of Well: Good

2.1 Over-drill Method

Depth of Boring (ft): 22'
Boring Diameter (in): 8"
Seal Material: Grout
Seal Interval: 0-22'
Casing Removed Intact: (Y) / N)
Casing Removed Intact: (Y) / N)

2.2 Pressure Grout Method

Depth of Boring (ft): _____
Grout Material: _____
Grout Volume (gals.): _____
Sustained Grout Pressure (psi): _____
Duration of Sustained Grout Pressure (mins.): _____

2.3 Other: _____

Treadwell&Rollo
Environmental and Geotechnical Consultants

MONITORING WELL ABANDONMENT RECORD

1.0 Monitoring Well Construction Details

Well No.: 1065MW9A
Easting Location: —
Northing Location: —
Well Permit No.: NA
TOC Elevation (ft. LLW): —
Installation Date: 9/30/02
Surface Elevation (ft. LLW): —
Drilling Contractor: —
Drilling Method: HSA

Depth of Boring (ft): 15.5
Boring Diameter (in): 8"
Casing Material: Sch 40 PVC
Casing Diameter (in): 2"
Casing Length (ft): 13'
Screen Interval: 3-13'
Screen Slot Size (in): .010"
Filter Pack Material: #2/12 Sand
Filter Pack Interval: 2-15'
Sanitary Seal Material: Grout
Sanitary Seal Interval: 0.5'-2'
Surface Seal Material: Concrete
Surface Seal Interval: 0-0.5'
Conductor Casing: (Y / (N))
Conductor Material: —
Conductor Length (ft): —
Conductor Diameter (in): —

2.0 Monitoring Well Destruction Details

Destruction Permit No.: NA
Destruction Date: 5/30/07
Depth to Groundwater (ft. below TOC): —
Drilling Contractor: Gregg
Destruction Method: Over Drill
Condition of Well: Good

2.1 Over-drill Method

Depth of Boring (ft): 16
Boring Diameter (in): 8"
Seal Material: cement grout
Seal Interval: 0-16
Casing Removed Intact: (Y) / N)
Casing Removed Intact: (Y) / N)

2.2 Pressure Grout Method

Depth of Boring (ft): _____
Grout Material: _____
Grout Volume (gals.): _____
Sustained Grout Pressure (psi): _____
Duration of Sustained Grout Pressure (mins.): _____

2.3 Other: _____

Treadwell&Rollo
Environmental and Geotechnical Consultants

MONITORING WELL ABANDONMENT RECORD

1.0 Monitoring Well Construction Details

Well No.: 1065MW9B
Easting Location: —
Northing Location: —
Well Permit No.: —
TOC Elevation (ft. LLW): —
Installation Date: 9/30/02
Surface Elevation (ft. LLW): —
Drilling Contractor: —
Drilling Method: HSA

Depth of Boring (ft): 32
Boring Diameter (in): 8"
Casing Material: PVC
Casing Diameter (in): 2"
Casing Length (ft): 32
Screen Interval: 26-32'
Screen Slot Size (in): .010"
Filter Pack Material: #2/12 Sand
Filter Pack Interval: 25-32
Sanitary Seal Material: Grout
Sanitary Seal Interval: 15'-25'
Surface Seal Material: Bentonite Cement Seal
Surface Seal Interval: 0-15'
Conductor Casing: (Y)/ N)
Conductor Material: —
Conductor Length (ft): 1'-19.5'
Conductor Diameter (in): 8"

2.0 Monitoring Well Destruction Details

Destruction Permit No.: NA
Destruction Date: 5/30/07
Depth to Groundwater (ft. below TOC): —
Drilling Contractor: Gregg
Destruction Method: Over Drill
Condition of Well: good

2.1 Over-drill Method

Depth of Boring (ft): 32'
Boring Diameter (in): 8"
Seal Material: cement grout
Seal Interval: 0-32
Casing Removed Intact: (Y)/ N)
Casing Removed Intact: (Y)/ N)

2.2 Pressure Grout Method

Depth of Boring (ft): _____
Grout Material: _____
Grout Volume (gals.): _____
Sustained Grout Pressure (psi): _____
Duration of Sustained Grout Pressure (mins.): _____

2.3 Other: _____

ATTACHMENT B

Well Completion Reports

"The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e055519

Page 1 of 1

Owner's Well Number 1063SP21A

Date Work Began 5/30/07 Date Work Ended 5/30/07

Local Permit Agency The Presidio Trust

Permit Number NA Permit Date NA

DWR Use Only

State Well Number/Site Number

Latitude N Longitude W

APN/TRS/Other

Geologic Log

Orientation ● Vertical ○ Horizontal ○ Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Describe material, grain size, color, etc.
		Drill out 2" well using 8" Hollow Stem Auger. Casing removed Intact. 8" boring drilled to 9' All cuttings drumped onsite Boring was filled to the ground surface with Neat cement grout using the tremie method. See attached well installation boring log

Total Depth of Boring 9' Feet

Total Depth of Completed Well — Feet

Well Owner

Name The Presidio Trust

Mailing Address 67 Martinez St

City San Francisco State CA Zip 94129

Well Location

Address Bldg 1063, The Presidio

City San Francisco County San Francisco

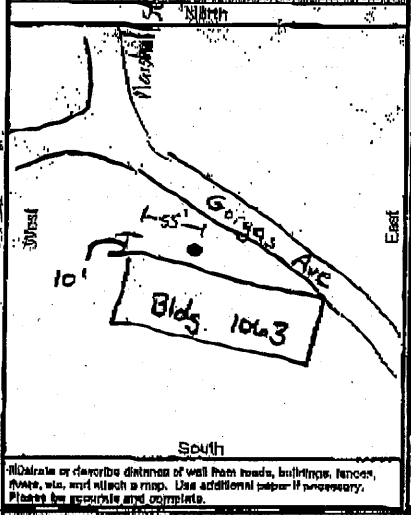
Latitude 37 Deg. 48 Min. 09 Sec. N Longitude 122 Deg. 27 Min. 06 Sec. W

Datum Decimal Lat. Decimal Long.

APN Book Page 1220 Parcel 001

Township Range Section

Location Sketch



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc., and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

○ New Well
○ Modification/Repair
○ Deepen
○ Other
● Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

○ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
● Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)

Annular Material

Depth from Surface Feet	to Feet	Fill	Description

Attachments

☑ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Gregg Drilling & Testing, Inc

Person, Firm or Corporation

950 Howe Rd Martinez CA 94553

Address City State Zip

Signed 6/15/07 485165

C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

INTERNATIONAL TECHNOLOGY CORPORATION

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

WAD 21 E1
Building 1065
Project Name: SAC TERC Presidio
Project Number: 762491

1A

Boring Number: 1065PZ-1A
Elevation:
Engineer/Geologist: D. Kofman
Drilling Method: ~~Geoprobe~~ or Hollow Stem Auger
Boring to 9' ft? total depth: 9'
Intermediate Well to _____ ft: Y (N) (including 10 ft of conductor casing)

GWF:
Depth Date/Time
Depth Date/Time

Date: 4/16/97
Date Started: 4/16/97
Date Completed: 4/16/97
~~Shallow well to 10 ft~~: Y (N) PROPOSED
Additional shallow well footage beyond 10 ft:

Time spent installing 8.5inch augers to 30ft for conductor casing:
Standby time:
Total development time:
Level C: Y (N)

E1

Time	Depth (ft)	Sample type and No.	Recovery (inches)	Description	USCS soil symbol	Measured consistency (TSF)	Well construction	Remarks	PID (ppm)
0945				Boring or well number: 1065 PZ 1A					
				ASPHALT - BASE ROCK	AC				0.0
				6"					
	1		4/12/5	FILL - SILTY SANDY GRAVEL, MOD. BROWN TO MOD. YELLOW BROWN, SLI. MOIST, DENSE, W ROCK & BRICK FRAGMENTS	FILL				
			18"						
	2			SILT CONTENT INCREASES @ 2'					
			2/2/3						
1005		SOIL 1065PZ1A(3')	16"						
	3			3.2'					
				POORLY GRADED, SAND, MOD. BROWN, SLI. MOIST, MED DENSE,	SP				0.0
	4		2/2/15						
			13"						
				4.7'					
	5			SANDY SILT, MOD. BROWN, MOIST, STIFF NON-PLASTIC, TRACE GRAVELS	ML				0.0
		SOIL							
1010		1065PZ1A (5.5')	8/4/7	SILTY SAND BECOMES DUSKY BROWN & V. MOIST					
	6			6.2'					
				POORLY GRADED, SAND, SATURATED, OLIVE GREY, MOD. DENSE, FINE TO MED. GRAINED	SP				
			4/2/3						
	7		9"	7'					0.0
1015		1065PZ1A (7')		SILT W/ SAND, OLIVE GREEN/GRAY, WET SOFT - NON PLASTIC	ML				

INTERNATIONAL TECHNOLOGY CORPORATION

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

WAD 21 E1
Building 1065
Project Name: SAC TERC Presidio
Project Number: 782491

B Number: 1065PZ01A
El ion:
Engineer/Geologist: D. Kunde

GWF:
Depth Date/Time
Depth Date/Time

Date: 4/16/97
Date Started: 4/16/97
Date Completed: 4/16/97

Drilling Method: Geoprobe or Hollow Stem Auger
Boring to ____ ft? total depth: ____
Intermediate Well to ____ ft: Y N (including 10 ft of conductor casing)

Shallow well to 10 ft: Y N
Additional shallow well footage beyond 10 ft:

Time spent installing 8.5inch augers to 30ft for conductor casing:
Standby time:

Total development time:
Level C: Y N

E1

Time	Depth (ft)	Sample type and No.	Recovery (inches)	Description	USCS soil symbol	Measured consistency (TSF)	Well construction	Remarks	PID (ppm)
				Boring or well number: 1065PZ01A					
015	0	1065PZ01A (7)		SILT w/ SAND.	ML				
	4		1/1/1	TRACE changes @ 8' SAND CONTENT INCREASES 12" w/ DEPTH TO T.D. ~ 40% TO 45% SAND					
020	9								

T.D = 9'

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e055618

Page 1 of 1

Owner's Well Number 1065PZ1B

Date Work Began 5/30/07 Date Work Ended 5/30/07

Local Permit Agency

Permit Number Permit Date

DWR Use Only — State Well Number/Site Number; Latitude N; Longitude W; APN/TRS/Other

Geologic Log

Orientation ○ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet to Feet	Description
	Drill out 2" well using 8" Hollow stem Auger rig. Casing removed. Total 8" Boring drilled to 22'. All cuttings drummed onsite. Boring was filled to the ground surface with Neat cement grout using the tremie method.
	See attached well installation boring log

Total Depth of Boring Feet

Total Depth of Completed Well Feet

Well Owner

Name The Presidio Trust

Mailing Address 67 Martinez St

City San Francisco State CA Zip 94129

Well Location

Address Bldg 1063, The Presidio

City San Francisco County San Francisco

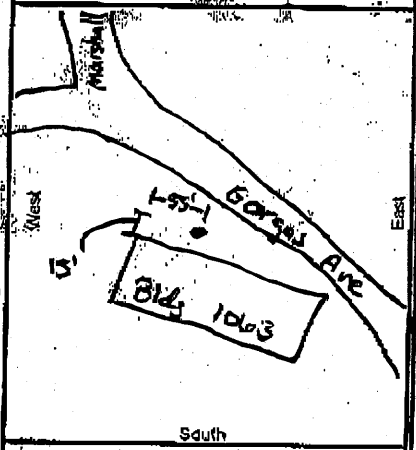
Latitude 37 Deg. 48 Min. 09 Sec. N Longitude 122 Deg. 27 Min. 06 Sec. W

Datum Decimal Lat. Decimal Long.

APN Book Page 1300 Parcel 001

Township Range Section

Location Sketch



Indicate direction and distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

○ New Well
○ Modification/Repair
○ Deepen
○ Other
● Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

○ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
● Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)

Annular Material

Depth from Surface Feet to Feet	Fill	Description

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Gregg Drilling & Testing, Inc.
Person, Firm or Corporation

950 Howe Rd. Martinez CA 94553
Address City State Zip

Signed 6/15/07 485165
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

INTERNATIONAL TECHNOLOGY CORPORATION

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

WAD 21 E1
Building 1065
Project Name: SAC TERC Presidio
Project Number: 762491

Br Number: 1065 PZ1B	GWF:	Date: 4/16/97
Elevation:	Depth Date/Time	Date Started: 4/16/97
Engineer/Geologist: D. Kamps	Depth Date/Time	Date Completed: 4/16/97
Drilling Method: Geoprobe or ~~Hollow Stem Auger~~		
Boring to 22' ft? total depth: 22'		Shallow well to 10 ft: Y (N)
Intermediate ~~Well~~ to ____ ft: (Y) N (including 10 ft of conductor casing)		Additional shallow well footage beyond 10 ft:
Piezo		
Time spent installing 8.5inch augers to 30ft for conductor casing:		Total development time:
Standby time:		Level C: Y (N)

E1

Boring or well number: 1065 PZ1B

Time	Depth (ft)	Sample type and No.	Recovery (inches)	Description	USCS soil symbol	Measured consistency (TSF)	Well construction	Remarks	PID (ppm)
1130	0	2½" Dia. C. Core Barrel 60" Long	24"/60"	ASPHALT + BASE ROCK (6")	AC			POOR RECOVERY	0.0
	1			FILL MATERIAL = SILTY SANDY GRAVEL, LIGHT MED. BROWN, SLI. MOIST DENSE					
	2								
	3			(3.5') POORLY GRADED SAND, MED. BROWN, SLI. MOIST MED. DENSE, FINE TO MED. GRAINED, (4')	SP			HARD DRILLING @ 3'	
	4			FILL = RED BRICK & SILTY SAND & ROCK FRAGMENTS	FILL			HARD DRILLING @ 4'	0.0
1150	5							EASY DRILLING FROM 5' TO 10'	
	6	C. Core	22"/60"	(6.5') POORLY SORTED SAND, OLIVE GRAY TO OLIVE GRAY, WET MED. DENSE, FINE TO MED GRAINED,	SP				
	7								

INTERNATIONAL TECHNOLOGY CORPORATION

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

WAD 21 E1
Building 1065
Project Name: SAC TERC Presidio
Project Number: 762491

Boring Number: 1065PZ1B	GWF:	Date: 4/16/97
Location:	Depth Date/Time	Date Started: 4/16/97
Engineer/Geologist: D. Kurtz	Depth Date/Time	Date Completed: 4/16/97
Drilling Method: ~~Geoprobe~~ or (Hollow Stem Auger)		
Boring to ____ ft? total depth: ____		Shallow well to 10 ft: Y (N)
Intermediate Well to ____ ft: Y N (including 10 ft of conductor casing)		Additional shallow well footage beyond 10 ft:
Time spent installing 8.5inch augers to 30ft for conductor casing:		Total development time:
Standby time:		Level C: Y (N)

E1

Boring or well number: 1065PZ1B

Time	Depth (ft)	Sample type and No.	Recovery (inches)	Description	USCS soil symbol	Measured consistency (TSF)	Well construction	Remarks	PID (ppm)
	8	C. CORE	22"/60"	SAND COARSening w/ fine gravel GRAVEL	SP		See well const. DIA. 1		0.0
1300	9								
	10								
	11	C-CORE	60"/60"	10.5 SANDY SILT, olive green/gray, sat, mod stiff, non plastic - becoming mod. yellow brown to gray w/ black mottling w/ organic matter	ML				0.0
	12			RICH IN ORGANIC (ROOTS) - ROOTLETS - (ANAEROBIC ENVIRONMENT) TRACE CLAYS - MOD. STIFF					
	13								
	14			SILT becoming SOFT - OLIVE GRAY - w/ SAND STRINGERS (fine grained)					0.0

INTERNATIONAL TECHNOLOGY CORPORATION

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

WAD 21 E1
Building 1065
Project Name: SAC TERC Presidio
Project Number: 782491

Boring Number: 1065PE1B	GWF:	Date: 4/16/97
Elevation:	Depth Date/Time	Date Started: 4/16/97
Engineer/Geologist: D. Kobus	Depth Date/Time	Date Completed:
Drilling Method: ~~Geoprobe~~ or (Hollow Stem Auger)		
Boring to ____ ft? total depth: ____		Shallow well to 10 ft: Y N
Intermediate Well to ____ ft: Y N (including 10 ft of conductor casing)		Additional shallow well footage beyond 10 ft:
Time spent installing 8.5inch augers to 30ft for conductor casing:		Total development time:
Standby time:		Level C: Y N

Boring or well number: E1

Time	Depth (ft)	Sample type and No.	Recovery (inches)	Description	USCS soil symbol	Measured consistency (TSF)	Well construction	Remarks	PID (ppm)
	14				ML			EASY DRILLING	0.0
1340	15			15.5' POORLY GRADED SAND, OLIVE GRAY, WET, MOD. ANGLE, FINE TO MED. GRAINED	SP			GOOD Recovery	
	16			SILT CONTENT APPEARS FROM 16' TO 17'					
	17		52"/60"	SILT CONTENT DISAPPEARS SAND BECOMING COARSER GRAINED DARK GRAY	SP				
	18	C. CORE							0.0
	19			SHELL FRAGMENTS APPEAR FROM 19' TO 20' (BI-VALVE)					
1320	20								
	21		24"/24"	21' SANDY SILT, GRAY, SAT., SOFT, NON PLASTIC, V. FINE TO FINE GRAINED	ML				0.0
1310	22			T.D. = 22'					

See well const. Dia.

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e055520

Page 1 of 1

Owner's Well Number 1065MW9A

Date Work Began 5/30/07 Date Work Ended 5/30/07

Local Permit Agency The Presidio Trust

Permit Number NA Permit Date NA

DWR Use

State Well Number/Site Number

Latitude N Longitude W

APN/TRS/Other

Geologic Log

Orientation O Vertical O Horizontal O Angle Specify

Drilling Method Drilling Fluid

From	To	Description
		Drill out 2" well using 8" Hollow stem augers. Casing removed intact. 8" boring drilled to 16'. All cuttings dumped onsite. Boring was filled to the ground surface with neat cement grout using the tremie method.
		See attached well installation boring log

Total Depth of Boring 16 Feet

Total Depth of Completed Well NA Feet

Well Owner

Name The Presidio Trust

Mailing Address 67 Martinez St

City San Francisco State CA Zip 94129

Well Location

Address Bldg 1063, The Presidio

City San Francisco County San Francisco

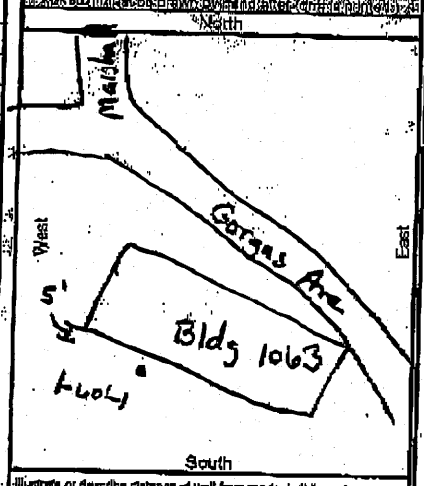
Latitude 37 Deg. 48 Min. 09 Sec. N Longitude 122 Deg. 27 Min. 06 Sec. W

Datum Decimal Lat. Decimal Long.

APN Book Page 1300 Parcel(s) opl

Township Range Section

Location Sketch



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

O New Well
O Modification/Repair
O Deepen
O Other
● Destroy
Describe procedures and materials under "Destruction"

Planned Use

O Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
O Cathodic Protection
O Dewatering
O Heat Exchange
O Injection
● Monitoring
O Remediation
O Sparging
O Test Well
O Vapor Extraction
O Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size If Any (Inches)

Annular Material

Depth from Surface Feet	to Feet	Fill	Description

Attachments

☑ Geologic Log
☑ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Gregg Drilling & Testing, Inc.
Person, Firm or Corporation

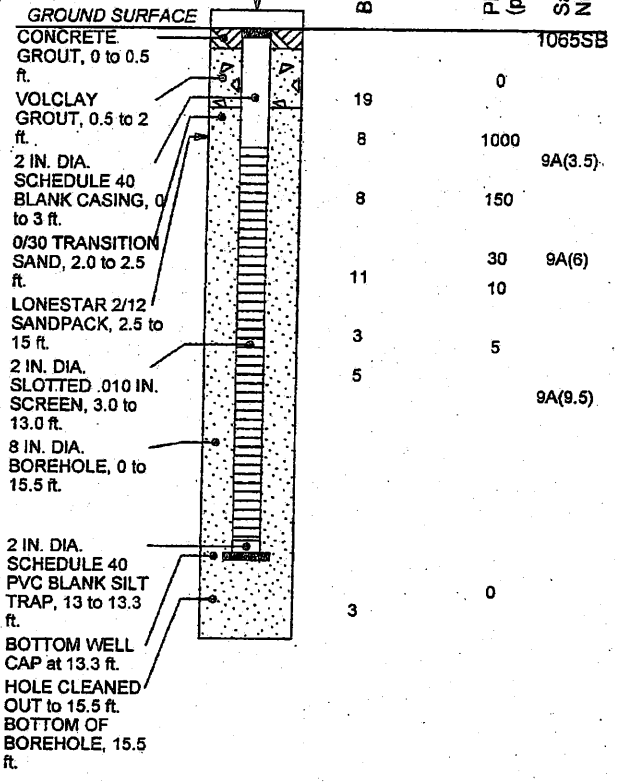
950 Howe Rd Martinez CA 94553
Address City State Zip

Signed [signature] 6/15/07 485165
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

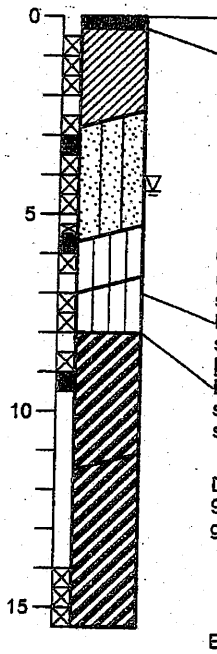
DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Equipment B61 Hollow Stem Auger
Sample Method
Hole Diameter 8 inch
Surface Elevation Date 9/30/02
Reference Datum



Blows/Foot	PID Reading (ppm)	Sample Number
		1065SB
19	0	
8	1000	9A(3.5)
8	150	
	30	9A(6)
11	10	
3	5	
5		9A(9.5)
3	0	



4 in. Asphalt
BROWN GRAVELLY CLAY (CL) (10YR 5/3), firm, moist, 60% clay, 30% gravel (SS, Brick, Chert), 10% sand [FILL]

BLACK SILTY SAND (SM) (5Y 2.5/1), loose, moist to wet, 60% fine sand, 40% silt [FILL]

Groundwater level at 4.5 ft. at 0930 on 9/30/02.

OLIVE-BROWN SILT WITH SAND (ML) (2.5Y 4/4), firm, moist, 80% silt, 20% fine sand, with iron oxide staining [FILL]

DARK OLIVE-GRAY SILT (ML) (5Y 3/2), soft, wet, 60% silt, 30% clay, 10% sand [FILL]

DARK OLIVE-GRAY CLAY (CH) (5Y 3/2), soft, wet, 50% clay, 30% silt, 20% very fine sand [Disturbed Native]

DARK GRAY CLAY (CH) (5Y 4/1), soft, wet, 90% clay, 10% silt, with trace organics and grass [Native]

Bottom of boring at 15.5 ft.

* Blows/foot converted to STP.

BORING_WELL_HARDINGESE_54382.GPJ GEOL.GDT 2/19/03

MACTEC

Well Construction Details and Log of Boring 1065MW9A

Building 1065 Area
Presidio of San Francisco, California

PLATE B34

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	54382 00142	MJH	2/03	

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California
Well Completion Report
Refer to Instruction Pamphlet
No. e055521

Page 1 of 1
Owner's Well Number 1de5MW98
Date Work Began 5/30/07 Date Work Ended 5/30/07
Local Permit Agency The Presidio Trust
Permit Number NA Permit Date NA

DWR Use Only
State Well Number/Site Number
Latitude N Longitude W
APN/TRS/Other

Geologic Log
Orientation ● Vertical ○ Horizontal ○ Angle Specify
Drilling Method Drilling Fluid

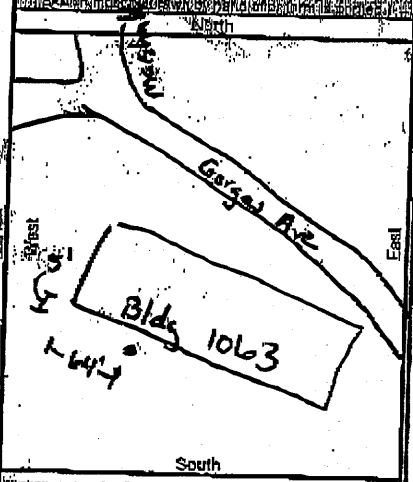
Depth from Surface Feet	to Feet	Description
		Drill out 2" well using 8" Hollow Stem Augers Casing removed intact 8" boring drilled to 32' All cuttings dumped on site Boring was filled to the surface with neat cement grout using the tremie method
		See well installation boring log attached

Total Depth of Boring 32' Feet
Total Depth of Completed Well NA Feet

Well Owner
Name The Presidio Trust
Mailing Address 67 Martinez St
City San Francisco State CA Zip 94129

Well Location
Address Bldg 1063, The Presidio
City San Francisco County San Francisco
Latitude 37 Deg. 48 Min. 09 Sec. N Longitude 122 Deg. 27 Min. 06 Sec. W
Datum Decimal Lat. Decimal Long.
APN Book Page 1300 Parcel 001
Township Range Section

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.



Activity
○ New Well
○ Modification/Repair
○ Deepen
○ Other
● Destroy
Describe procedures and materials under "Geologic Log"

Planned Uses
○ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
● Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well
Depth to first water (Feet below surface)
Depth to Static Water Level (Feet) Date Measured
Estimated Yield * (GPM) Test Type
Test Length (Hours) Total Drawdown (Feet)
*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size If Any (Inches)

Annular Material

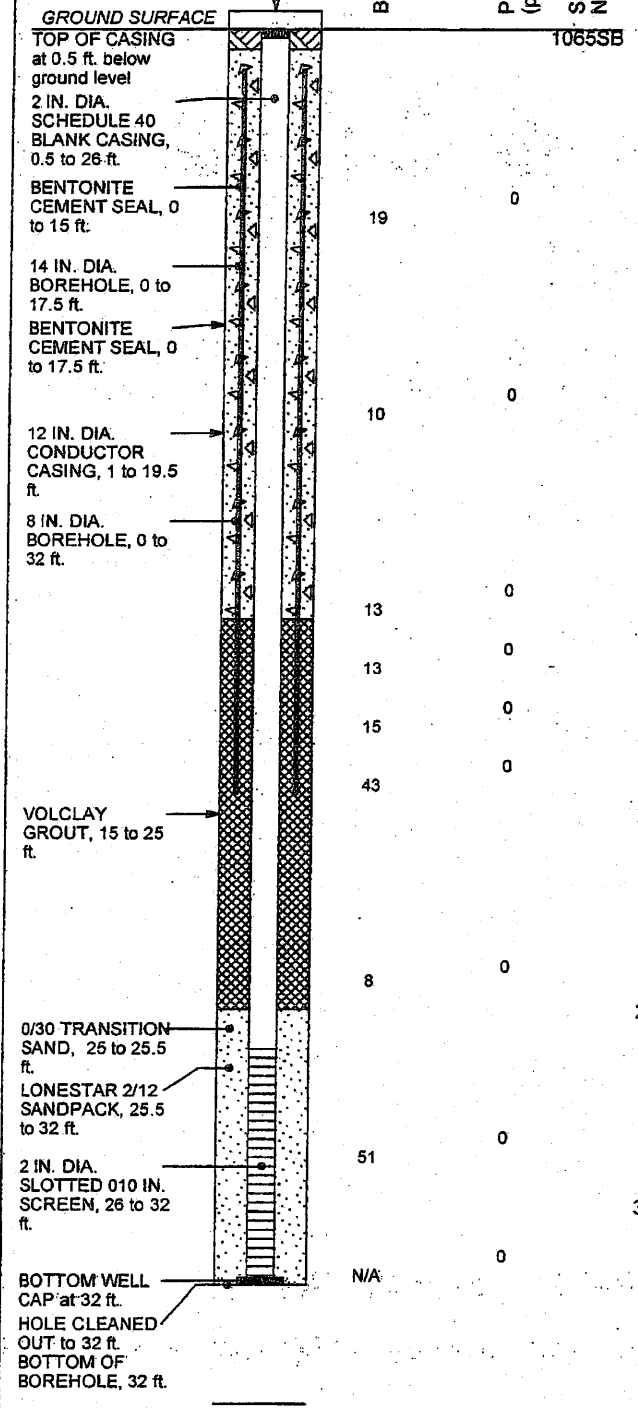
Depth from Surface Feet	to Feet	Fill	Description

Attachments
☑ Geologic Log
☑ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other
Attach additional information, if it exists.

Certification Statement
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief
Name Gregg Drilling & Testing Inc.
Person, Firm or Corporation
950 Howe Rd Martinez CA 94553
Address City State Zip
Signed [signature] 6/15/07 485165
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006
IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Equipment B61 Hollow Stem Auger
Sample Method
Hole Diameter 8 inch and 14 inch
Surface Elevation Date 9/30/02
Reference Datum



Blows/Foot	PID Reading (ppm)	Sample Number	Depth (ft.)	Sample
		1065SB	0	
19	0			
10	0		5	
13	0			
13	0			
15	0		10	
43	0			
8	0		15	
51	0		20	
N/A	0		25	
			30	

4 IN. ASPHALT
DARK OLIVE-GRAY SILTY SAND (SM) (5Y 3/2), loose, moist to wet, 80% sand, 20% silt. [FILL]

OLIVE-BROWN CLAY WITH SAND (CL) (2.5Y 4/3), firm, moist, 60% clay, 20% silt, 20% sand, with iron oxide mottling. [FILL]
@ 5 ft.: SILTY SAND (SM) lense [FILL]
OLIVE-BROWN CLAY WITH SAND (CL) (2.5Y 4/3), firm, moist, 60% clay, 20% silt, 20% sand, with iron oxide mottling. [Disturbed Native]

BLACK ORGANIC SOIL (OL) (10YR 2/1), soft, moist, 80% organics, 20% clay/fines. [NATIVE]

VERY DARK GRAY CLAYEY SAND (SC) (5Y 3/1), loose, wet, 70-90% sand, 10-30% clay

VERY DARK GRAY SAND (SP) (5Y 3/1), medium dense, wet, 90% fine sand, 10% silt

VERY DARK GRAY CLAY (CH) (5Y 3/1), soft, wet, 100% clay
OLIVE-BROWN SILT WITH SAND (ML) (2.5Y 4/3), firm, moist, 80% silt, 20% very fine sand, with iron oxide laminations
OLIVE-BROWN SILTY SAND (SM) (2.5Y 4/3), dense, wet, 80% sand, 20% silt
STRONG BROWN SILT (ML) (7.5YR 4/6), hard, moist, 90% silt, 10% fine sand
DARK OLIVE-GRAY SILTY SAND (SM) (5Y 3/2), loose, wet, 80% fine sand, 20% silt, trace of gravel, occasional inclusion of clay, with mild petroleum odor

@ 28 ft.: Color change to olive-brown (2.5Y 4/3), becoming dense

Bottom of boring at 32 ft.

* Blows/foot converted to STP.

BORING_WELL_HARDINGESE 54382.GPJ GEOL.GDT 2/19/03

MACTEC

Well Construction Details and Log of Boring 1065MW9B

Building 1065 Area
Presidio of San Francisco, California

PLATE B35

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	54382 00142	MJH	2/03	

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California
Well Completion Report

Refer to Instruction Pamphlet
No. el)55817

Page 1 of 1
Owner's Well Number 1065MW103A
Date Work Began 5/30/07 Date Work Ended 5/30/07
Local Permit Agency The Presidio Trust
Permit Number NA Permit Date NA

Well Location
State Well Number/Site Number
Latitude N Longitude W
APN/TRS/Other

Geologic Log
Orientation ● Vertical ○ Horizontal ○ Angle Specify
Drilling Method Hollow Stem Auger Drilling Fluid

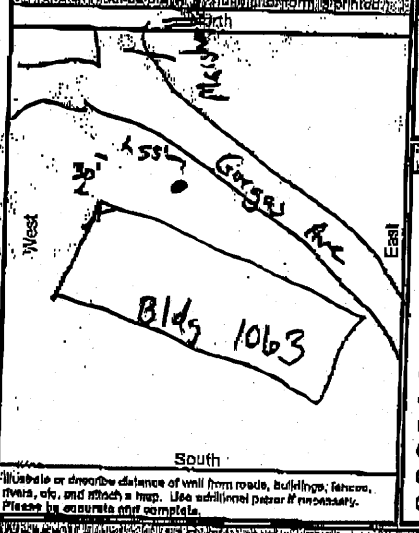
Depth from Surface Feet	to Feet	Description: Describe material, grain size, color, etc.
		see attached Log Boring

Total Depth of Boring 10' Feet
Total Depth of Completed Well 9' Feet

Well Owner
Name The Presidio Trust
Mailing Address 167 Martinez St
City San Francisco State CA Zip 94129

Well Location
Address Bldg 1063, The Presidio
City San Francisco County San Francisco
Latitude 37 Deg. 48 Min. 09 Sec. N Longitude 122 Deg. 27 Min. 06 Sec. W
Datum Decimal Lat. Decimal Long.
APN Book Page 1300 Parcel 001
Township Range Section

Location Sketch



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity
● New Well
○ Modification/Repair
○ Deepen
○ Other
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses
○ Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
● Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well
Depth to first water 7' (Feet below surface)
Depth to Static
Water Level (Feet) Date Measured 6/1/07
Estimated Yield * — (GPM) Test Type —
Test Length (Hours) Total Drawdown — (Feet)
*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	4	8	well	Sch 40 PVC		2	Blank	
4	9	8	well	Sch 40 PVC		2	slot	.010

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	1	Cement Grout	
1	3	Bentonite	
3	9	#2/12 Sand	

Attachments
☑ Geologic Log
☑ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other
Attach additional information, if it exists.

Certification Statement
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief
Name Gregg Drilling & Testing, Inc.
Person, Firm or Corporation
950 Howe Rd Martinez CA 94553
Address City State Zip
Signed [signature] 6/15/07 485165
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

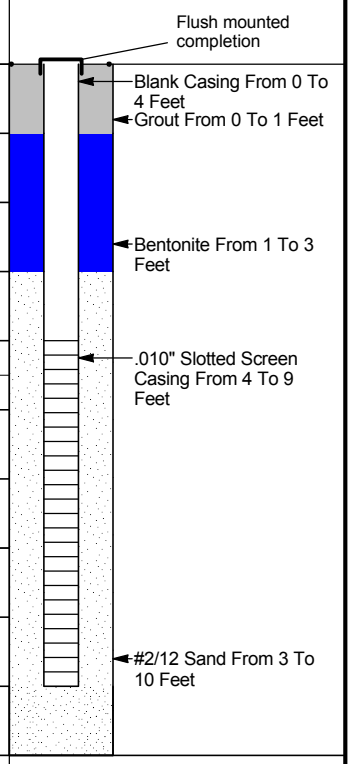
DWR 188 REV. 1/2006
IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

PROJECT:	BLDG 1063, GORGAS AVE THE PRESIDIO San Francisco, California	**Log of Monitoring Well 1065MW103A** PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: C. Gordon Drilled By: Gregg Drilling
Date started: 5/30/07	Date finished: 5/30/07	
Drilling method: Hollow Stem Auger		
Hammer weight/drop: --	Hammer type: --	
Sampler: Split Spoon		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (feet)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION	
1						GP	SANDY GRAVEL (GP) brown, loose, dry, angular, non-plastic, no odor	FILL
2								
3						SP	SAND (SP) olive brown, loose, moist, non-plastic, no odor, clean sand	
4								
5						CL	CLAY (CL) dark brown, soft, moist, slightly plastic, no odor	BAY MUD
6								
7					0.0		▽	
8					0.0	CL	SILTY CLAY (CL) olive brown, very soft, saturated, non-plastic, no odor, trace sand	
9								
10					0.0			
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

WELL COMPLETION INFORMATION



Boring terminated at a depth of 10 feet below ground surface.
Monitoring Well constructed in boring.
Groundwater encountered at a depth of 7 feet during drilling.

Treadwell&Rollo

Project No.:	Figure:
2893.65	C-1

LONG-LOG NAME-ENVIRO WELL LOG 289365.GPJ T&R.GDT 6/15/07

ATTACHMENT C

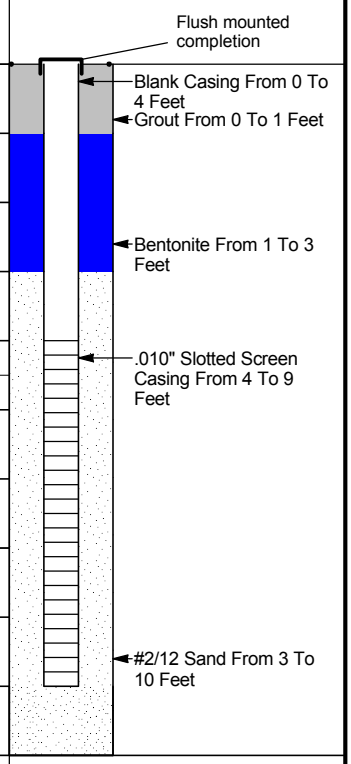
Boring Log and Well Construction Diagram

PROJECT:	BLDG 1063, GORGAS AVE THE PRESIDIO San Francisco, California	**Log of Monitoring Well 1065MW103A** PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: C. Gordon Drilled By: Gregg Drilling
Date started: 5/30/07	Date finished: 5/30/07	
Drilling method: Hollow Stem Auger		
Hammer weight/drop: --	Hammer type: --	
Sampler: Split Spoon		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (feet)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION	
1						GP	SANDY GRAVEL (GP) brown, loose, dry, angular, non-plastic, no odor	FILL
2								
3						SP	SAND (SP) olive brown, loose, moist, non-plastic, no odor, clean sand	
4								
5						CL	CLAY (CL) dark brown, soft, moist, slightly plastic, no odor	BAY MUD
6								
7					0.0		▽	
8					0.0	CL	SILTY CLAY (CL) olive brown, very soft, saturated, non-plastic, no odor, trace sand	
9								
10					0.0			
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

WELL COMPLETION INFORMATION



Boring terminated at a depth of 10 feet below ground surface.
Monitoring Well constructed in boring.
Groundwater encountered at a depth of 7 feet during drilling.

Treadwell&Rollo

Project No.:	Figure:
2893.65	C-1

LONG-LOG NAME-ENVIRO WELL LOG 289365.GPJ T&R.GDT 6/15/07

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	**Gravels** (More than half of coarse fraction > no. 4 sieve size)	**GW**	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	**SW**	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	**Silts and Clays** LL = < 50	**ML**	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	**MH**	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		**PT**	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	**Grain Size in Millimeters**
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

BLDG 1063, GORGAS AVE
THE PRESIDIO
San Francisco, California

CLASSIFICATION CHART

Treadwell&Rollo

Date 06/15/07 | Project No. 2893.65 | Figure C-2

ATTACHMENT D

Monitoring Well Development Data Sheets

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Presidio SF				PROJECT NUMBER 070601-RC1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. C°	INITIALS
Myron ultrameter	6206855	6/1/07 900	4/7/10 pH	4.0/7.06/10.00 pH	Y	16.5/16.1/16.1	PC
		↓	3900µs	3902 µs	Y	15.5	↓
Hach Turbidimeter	060600C07103	↓	800 21	813 0.13	Y	—	
		↓	100	104	Y	—	

WELL DEVELOPMENT DATA SHEET

Project #: 070601-PC1	Client: T&R
Developer: PC	Date Developed: 6/1/07
Well I.D. 10105 MW103A	Well Diameter: (circle one) ② 3 4 6 ___
Total Well Depth: Before 8.71 After	Depth to Water: Before 5.10 After
Reason not developed:	If Free Product, thickness:
Additional Notations: well bottom firm @ surging & gauging	

Volume Conversion Factor (VCF):	Well dia.		VCF
$(12 \times (d^2/4) \times \pi) / 231$	2"	=	0.16
where:	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

0.5	X	10	=	5
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump ____

Other equipment used 2" surge block

* DTW: unable to gauge to water due to Pump

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	(ft.) DTW:	NOTATIONS:
0837	swab well w/ 2" surge block						
0898	Begin purge w/ 2" PAD Pump						
903	12.7	7.60	694	>1000	.5	5.50	grey, silty
912	15.1	6.58	2231	>1000	1	-*	dark brown
919	13.9	6.94	2187	>1000	1.5	-	spitting air
921	stopped pump @ 1.6 gal to allow recharge & 2nd swab						
950	water level back to 5.20 - surged well for 10 min. + then restart PAD						
1014	15.3	6.93	2191	>1000	2.0	-	dark brown
1016	15.0	6.92	2295	>1000	2.5	-	" "
1019	14.8	6.92	2310	>1000	3.0	-	" "
	stopped pump due to dewatering to repeat process per C. Gordon						
1055	Restart Pump.		DTW: 5.60	after 10 min			surge
1058	16.2	6.94	2149	>1000	3.5		dark brown

Did Well Dewater? Y | If yes, note above. | Gallons Actually Evacuated: 5 gal

WELL DEVELOPMENT DATA SHEET

Well I.D. 1005MW107A	PAGE 2 OF 2
Project #: 070601-PL1	Client: T&R

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1100	16.0	6.88	2148	>1000	4 gal	dark brown
1104	16.0	6.82	2140	>1000	4.5	" "
	Well dewatered - stop Purge					
1130	Surge well 10 min		DTW: 5.61'			
1142	Restart Purge					
1144	16.3	6.91	2232	>1000	5	cloudy
1147	16.0	6.90	2192	960	5.5	↓
1152	16.1	6.82	2180	810	6	↓
	Purge ended. Client contacted - development ended per client					
⇒	Development Completed per client 6/1/07					

June 29, 2007
#0-205-037(T)

Survey Data for Well 1065MW103A

		NAD '27 (FT)		PVC CASING ELEVATION					
ID	**NO.**	**NORTH**	**EAST**	**NAVD-88**		**NGVD-29**		**MLLW**	**PLLW**
				(meters)	(feet)	(meters)	(feet)	(feet)	(feet)
1065MW103A									
LID	6005	480186.701	1436420.761		12.988		10.298		13.358
TOP CASING	6006	480186.733	1436420.845		12.336		9.646		12.706

Checked: SRG Approved: MJH

APPENDIX J2

SUMMARY TABLES FROM BASEWIDE GROUNDWATER MONITORING PROGRAM

APPENDIX J2
SUMMARY TABLES FROM BASEWIDE GROUNDWATER MONITORING PROGRAM

CONTENTS

Table A-11-1, Summary of Dissolved Oxygen and Field Measurements, Building 1065/1027 Area
Table A-11-2, Results of General Chemistry Analyses, Building 1065/1027 Area
Table A-11-3, Results of BTEX, MTBE, VOCs, and TPH Analyses, Building 1065/1027 Area
Table A-11-4, Results of Dissolved Metals Analyses, Building 1065/1027 Area
Table A-11-5, Results of Dissolved Gas and TOC Analyses, Building 1065 Area
Table A-11-6, Results of Arsenic Speciation Analyses, Building 1065 Area
Table A-11-7, Groundwater Elevation Summary, Building 1065/1027 Area

Reviewed by ___SRG__

Table A-11-1
Summary of Dissolved Oxygen and Field Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ1A (shallow)	03/01/07	0.71	-96.00	6.96	12.48
	12/05/06	0.75	-82	7.02	15.29
	08/17/06	0.32	-106.40	6.87	20.27
	05/24/06	0.38	-124.1	7	17.68
	03/14/06	1.23	3.5	6.88	12.67
	12/01/05	0.7	NR	NR	NR
	08/31/05	0.5	NR	NR	NR
	06/02/05	0.29	NR	NR	NR
	03/29/05	0.4	NR	NR	NR
	12/17/04	0.9	NR	NR	NR
	08/11/04	0.1	NR	NR	NR
	05/26/04	0.2	NR	NR	NR
	03/19/04	0.2	NR	NR	NR
	12/05/03	0.3	NR	NR	NR
	08/19/03	0.14	NR	NR	NR
	06/11/03	0.5	NR	NR	NR
	03/17/03	0.09	NR	NR	NR
	12/06/02	0.13	NR	NR	NR
	09/05/02	0.79	NR	NR	NR
	05/30/02	1.1	NR	NR	NR
	03/07/02	0.53	NR	NR	NR
	11/29/01	0.17	NR	NR	NR
	09/06/01	0.28	NR	NR	NR
	05/11/01	0.36	NR	NR	NR
	05/27/99	6.83 (J25)	NR	NR	NR
	03/08/99	0.56	NR	NR	NR
	11/30/98	2.98	NR	NR	NR
	08/26/98	1.75	NR	NR	NR
	06/10/98	1.31	NR	NR	NR
	03/16/98	2.99	NR	NR	NR
	12/18/97	0.61	NR	NR	NR
	09/17/97	0.87	NR	NR	NR
1065PZ1B (intermediate)	03/07/07	0.36	-39	7.53	15.80
	12/05/06	1.21	211	6.82	14.8
	08/15/06	1.97	-33	6.90	17.20
	05/24/06	2.7	2.2	7.68	18.13
	03/07/06	0.05	-0.2	7.7	16.9
	11/29/05	0.91	NR	NR	NR
	08/30/05	0.7	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/05/05	0.9	NR	NR	NR
	12/17/04	0.7	NR	NR	NR
	08/13/04	0.8	NR	NR	NR
	05/27/04	0.56	NR	NR	NR
	03/10/04	1	NR	NR	NR
	12/03/03	0.9	NR	NR	NR
	08/13/03	1	NR	NR	NR
	06/03/03	1	NR	NR	NR
	03/17/03	0.2	NR	NR	NR
	12/09/02	0.7	NR	NR	NR
	09/03/02	0.7	NR	NR	NR
	06/03/02	1.1	NR	NR	NR
	03/13/02	0.8	NR	NR	NR
	12/03/01	4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen and Field Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ1B (intermediate)	09/05/01	0.6	NR	NR	NR
	05/16/01	3.22	NR	NR	NR
	05/27/99	0.59	NR	NR	NR
	03/08/99	0.19	NR	NR	NR
	11/30/98	0.21	NR	NR	NR
	08/26/98	0.16	NR	NR	NR
	06/10/98	0.14	NR	NR	NR
	03/16/98	0.51	NR	NR	NR
	12/18/97	0.29	NR	NR	NR
	09/17/97	0.6	NR	NR	NR
1065PZ2A (shallow)	06/10/08	0.46	-104.2	6.69	21.20
	03/01/07	0.43	-75.4	6.52	14.66
	12/06/06	0.52	-123.7	6.91	16.65
	08/17/06	0.24	-108.8	6.81	23.28
	05/24/06	0.14	-116.8	7.12	19.66
	03/13/06	0.43	-104.1	7.02	15.75
	12/01/05	0.4	NR	NR	NR
	08/30/05	0.3	NR	NR	NR
	05/24/05	0.2	NR	NR	NR
	04/01/05	0.2	NR	NR	NR
	12/15/04	0.2	NR	NR	NR
	08/11/04	0.1	NR	NR	NR
	05/25/04	0.1	NR	NR	NR
	03/15/04	0.2	NR	NR	NR
	12/05/03	0.15	NR	NR	NR
	08/19/03	0.2	NR	NR	NR
	06/04/03	0.2	NR	NR	NR
	03/17/03	0.06	NR	NR	NR
	12/05/02	0.1	NR	NR	NR
	09/05/02	0.52	NR	NR	NR
	05/29/02	1.1	NR	NR	NR
	03/07/02	0.11	NR	NR	NR
	11/29/01	0.18	NR	NR	NR
	09/05/01	0.38	NR	NR	NR
	05/11/01	0.25	NR	NR	NR
	05/25/99	6.78 (J25)	NR	NR	NR
	03/03/99	0.79	NR	NR	NR
	11/24/98	1.02 (J25)	NR	NR	NR
	08/25/98	0.34	NR	NR	NR
	06/09/98	0.39	NR	NR	NR
	03/12/98	1.02	NR	NR	NR
	12/17/97	0.47	NR	NR	NR
	09/16/97	1	NR	NR	NR
1065PZ2B (intermediate)	3/6/2007	0.53	206.00	7.06	17.80
	03/07/06	0.12	-0.9	7.25	17.9
	04/05/05	0.9	NR	NR	NR
	03/10/04	0.23	NR	NR	NR
	12/03/03	1	NR	NR	NR
	08/13/03	0.9	NR	NR	NR
	06/06/03	0.97	NR	NR	NR
	03/17/03	0.4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen and Field Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ2B (intermediate)	12/09/02	0.8	NR	NR	NR
	09/04/02	0.8	NR	NR	NR
	06/03/02	1.1	NR	NR	NR
	03/13/02	0.6	NR	NR	NR
	12/04/01	1.5	NR	NR	NR
	09/05/01	0.7	NR	NR	NR
	05/16/01	5.82	NR	NR	NR
	05/25/99	1.87	NR	NR	NR
	03/03/99	0.77	NR	NR	NR
	11/24/98	0.61	NR	NR	NR
	08/25/98	0.53	NR	NR	NR
	06/09/98	0.53	NR	NR	NR
	03/12/98	0.59	NR	NR	NR
	12/17/97	0.71	NR	NR	NR
	09/16/97	0.31	NR	NR	NR
1065PZ3A (shallow)	06/10/08	1.63	83.6	6.64	19.04
	03/01/07	1.19	189.10	6.69	11.83
	03/13/06	1.77	223.1	6.87	14.93
	04/05/05	3.4	NR	NR	NR
	03/15/04	3.8	NR	NR	NR
	12/08/03	NM	NR	NR	NR
	08/19/03	NM	NR	NR	NR
	06/02/03	NM	NR	NR	NR
	03/14/03	NM	NR	NR	NR
	12/05/02	3.7	NR	NR	NR
	09/05/02	3.5	NR	NR	NR
	05/29/02	2.5	NR	NR	NR
	03/07/02	2.75	NR	NR	NR
	11/29/01	3.44	NR	NR	NR
	09/05/01	8.56	NR	NR	NR
	05/11/01	1.62	NR	NR	NR
	05/24/99	8.59	NR	NR	NR
	03/01/99	7.59	NR	NR	NR
	11/23/98	NM	NR	NR	NR
	08/24/98	7.52	NR	NR	NR
	06/08/98	5.6	NR	NR	NR
	03/11/98	4.69	NR	NR	NR
	12/16/97	5.03	NR	NR	NR
1065PZ3B (intermediate)	02/28/07	0.71	211.00	6.70	13.10
	03/09/06	0.72	286.2	7.21	16.9
	04/06/05	2.2	NR	NR	NR
	03/10/04	0.69	NR	NR	NR
	12/03/03	1	NR	NR	NR
	08/14/03	1.1	NR	NR	NR
	06/03/03	3.3	NR	NR	NR
	03/18/03	2.6	NR	NR	NR
	12/10/02	2.9	NR	NR	NR
	09/03/02	1	NR	NR	NR
	06/04/02	3.7	NR	NR	NR
	03/13/02	0.8	NR	NR	NR
	12/04/01	5	NR	NR	NR
	09/05/01	4	NR	NR	NR
	05/17/01	7.33	NR	NR	NR
	05/24/99	2.4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen and Field Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ3B (intermediate)	03/01/99	2.09	NR	NR	NR
	11/23/98	1.96	NR	NR	NR
	08/24/98	2.51	NR	NR	NR
	06/08/98	2.31	NR	NR	NR
	03/11/98	2.7	NR	NR	NR
	12/16/97	3.02	NR	NR	NR
	09/15/97	3.09	NR	NR	NR
1065PZ4A (shallow)	03/01/07	0.53	-114.1	6.52	15.49
	12/06/06	0.7	-134.7	6.79	19.17
	08/17/06	6.53	-116.6	6.70	21.00
	05/24/06	0.74	-125.9	6.85	19.04
	03/09/06	0.51	-112.8	5.19	16.59
	11/29/05	0.3	NR	NR	NR
	08/30/05	0.2	NR	NR	NR
	06/02/05	0.28	NR	NR	NR
	04/01/05	0.1	NR	NR	NR
	03/15/04	0.3	NR	NR	NR
	12/05/03	0.2	NR	NR	NR
	08/19/03	0.12	NR	NR	NR
	06/11/03	0.35	NR	NR	NR
	03/14/03	0.09	NR	NR	NR
	12/05/02	0.15	NR	NR	NR
	09/05/02	0.31	NR	NR	NR
	06/04/02	0.25	NR	NR	NR
	03/07/02	2.53	NR	NR	NR
	11/29/01	0.11	NR	NR	NR
	09/05/01	0.36	NR	NR	NR
	05/11/01	0.27	NR	NR	NR
	05/27/99	0.62	NR	NR	NR
	03/08/99	0.17	NR	NR	NR
	12/01/98	0.21	NR	NR	NR
	08/27/98	0.17	NR	NR	NR
	06/11/98	1.99 (J25)	NR	NR	NR
	03/17/98	0.63	NR	NR	NR
	12/22/97	0.31	NR	NR	NR
	09/18/97	0.39	NR	NR	NR
1065PZ4B [1] (intermediate)	06/10/08	1.83	69.1	6.80	20.51
	03/01/07	0.64	127.00	6.80	14.60
	03/13/06	1.79	146	6.9	16.3
	04/05/05	3.2	NR	NR	NR
	12/17/04	NM	NR	NR	NR
	03/17/04	0.33	NR	NR	NR
	12/05/03	1.6	NR	NR	NR
	08/14/03	1.2	NR	NR	NR
	06/06/03	1.7	NR	NR	NR
	03/17/03	1.3	NR	NR	NR
	12/09/02	2.5	NR	NR	NR
	09/04/02	1.7	NR	NR	NR
	06/04/02	2.2	NR	NR	NR
	03/13/02	2.8	NR	NR	NR
	12/04/01	4	NR	NR	NR
	09/05/01	0.96	NR	NR	NR
	05/09/01	2.1	NR	NR	NR
	05/27/99	1.47	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen and Field Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ4B (intermediate)	03/08/99	1.22	NR	NR	NR
	12/01/98	1.17	NR	NR	NR
	08/27/98	1.9	NR	NR	NR
	06/11/98	2.13	NR	NR	NR
	03/17/98	1.2	NR	NR	NR
	12/22/97	1.22	NR	NR	NR
	09/18/97	1.5	NR	NR	NR
1065PZ5AR (shallow)	06/10/08	0.51	-122.7	6.79	19.77
	03/01/07	0.82	118.00	6.90	13.4
	12/07/06	3.66	-128.1	6.64	15.6
	08/16/06	0.42	-176.50	NA	21.9
	05/24/06	4.21	-88.3 NM	7.11	15.5
	03/07/06	0.41	12	7.13	12.9
	11/29/05	0.72	NR	NR	NR
	08/30/05	0.8	NR	NR	NR
	05/24/05	0.5	NR	NR	NR
	04/11/05	0.1	NR	NR	NR
	03/10/04	0.11	NR	NR	NR
	12/08/03	1	NR	NR	NR
	08/14/03	1	NR	NR	NR
	06/09/03	NM	NR	NR	NR
	03/17/03	0.2	NR	NR	NR
1065PZ5B (intermediate)	03/01/07	0.28	136.00	7.10	13.70
	03/13/06	3.98	122	7	14.4
	04/11/05	3	NR	NR	NR
	03/10/04	0.21	NR	NR	NR
	12/08/03	1.5	NR	NR	NR
	08/14/03	1.2	NR	NR	NR
	06/04/03	2	NR	NR	NR
	03/17/03	1.8	NR	NR	NR
	12/10/02	2.3	NR	NR	NR
	09/03/02	1	NR	NR	NR
	06/04/02	3	NR	NR	NR
	03/13/02	3.2	NR	NR	NR
	12/03/01	3.8	NR	NR	NR
	09/05/01	1.4	NR	NR	NR
	05/16/01	4.35	NR	NR	NR
	05/25/99	2.51	NR	NR	NR
	03/03/99	2.46	NR	NR	NR
	11/24/98	2.62	NR	NR	NR
	08/25/98	3.46	NR	NR	NR
	06/09/98	2.65	NR	NR	NR
	03/12/98	2.22	NR	NR	NR
	12/17/97	2.59	NR	NR	NR
	09/16/97	2.1	NR	NR	NR
1065PZ6A (shallow)	04/06/05	2.3	NR	NR	NR
	03/17/04	0.32	NR	NR	NR
	12/08/03	0.2	NR	NR	NR
	08/14/03	1.3	NR	NR	NR
	06/10/03	4.2	NR	NR	NR
	03/17/03	3.8	NR	NR	NR
	12/10/02	4.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	5.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen and Field Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ6A (shallow)	03/13/02	3.8	NR	NR	NR
	12/04/01	3.8	NR	NR	NR
	09/05/01	1.49	NR	NR	NR
	05/17/01	5.61	NR	NR	NR
	05/24/99	5.36	NR	NR	NR
	03/01/99	5.35	NR	NR	NR
	11/23/98	4.63	NR	NR	NR
	08/24/98	5.09	NR	NR	NR
	06/08/98	4.28	NR	NR	NR
	03/11/98	5.17	NR	NR	NR
	12/16/97	4.44	NR	NR	NR
	09/15/97	3.51	NR	NR	NR
1065PZ6B (intermediate)	03/07/07	0.29	123.00	6.70	16.30
	03/10/06	1.27	137.1	6.69	17.9
	04/05/05	1.1	NR	NR	NR
	03/09/04	0.91	NR	NR	NR
	12/03/03	1.1	NR	NR	NR
	08/13/03	1.1	NR	NR	NR
	06/03/03	0.9	NR	NR	NR
	03/17/03	1.6	NR	NR	NR
	12/09/02	2.8	NR	NR	NR
	09/03/02	1.1	NR	NR	NR
	06/04/02	3.5	NR	NR	NR
	03/13/02	0.9	NR	NR	NR
	12/04/01	2	NR	NR	NR
	09/05/01	1.8	NR	NR	NR
	05/11/01	6.8	NR	NR	NR
	05/24/99	3.09	NR	NR	NR
	03/01/99	2.67	NR	NR	NR
	11/23/98	2.8	NR	NR	NR
	08/24/98	2.9	NR	NR	NR
	06/08/98	2.77	NR	NR	NR
	03/11/98	2.87	NR	NR	NR
	12/16/97	2.57	NR	NR	NR
	09/15/97	2.21	NR	NR	NR
1065PZ7A (shallow)	02/27/07	0.91	192.00	7.10	12.40
	03/15/06	4.47	270	6.29	14.8
	04/06/05	1.1	NR	NR	NR
	03/17/04	0.1	NR	NR	NR
	12/08/03	2.2	NR	NR	NR
	08/13/03	0.8	NR	NR	NR
	06/10/03	0.5	NR	NR	NR
	03/17/03	0.1	NR	NR	NR
	12/09/02	1.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	1.3	NR	NR	NR
	03/13/02	1.5	NR	NR	NR
	12/03/01	0.7	NR	NR	NR
	09/05/01	1.71	NR	NR	NR
	05/09/01	2.5	NR	NR	NR
	05/27/99	5.58 (J25)	NR	NR	NR
	03/08/99	2.27	NR	NR	NR
	12/01/98	2.21	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen and Field Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ7A (shallow)	08/26/98	1.61	NR	NR	NR
	06/10/98	0.99	NR	NR	NR
	03/16/98	2.89	NR	NR	NR
	12/18/97	1.5	NR	NR	NR
	09/17/97	1.22	NR	NR	NR
1065PZ7B (intermediate)	03/01/07	1.03	131.00	6.80	14.40
	03/15/06	0.9	180.3	6.98	14.5
	04/06/05	1.3	NR	NR	NR
	03/17/04	2.2	NR	NR	NR
	12/08/03	3.2	NR	NR	NR
	08/13/03	0.5	NR	NR	NR
	06/10/03	2.8	NR	NR	NR
	03/17/03	2	NR	NR	NR
	12/09/02	5.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	2.7	NR	NR	NR
	03/13/02	2.4	NR	NR	NR
	12/03/01	0.8	NR	NR	NR
	09/05/01	1.91	NR	NR	NR
	05/09/01	4.5	NR	NR	NR
	05/27/99	3.66	NR	NR	NR
	03/08/99	3	NR	NR	NR
	12/01/98	3.65	NR	NR	NR
	08/26/98	3.11	NR	NR	NR
	06/10/98	2.45	NR	NR	NR
	03/16/98	3.91	NR	NR	NR
	12/18/97	2.31	NR	NR	NR
	09/17/97	2.14	NR	NR	NR
1065TMW03 (shallow)	06/02/03	NM	NR	NR	NR
	03/14/03	NM	NR	NR	NR
	12/09/02	NM	NR	NR	NR
	09/06/02	NM	NR	NR	NR
	06/06/02	NM	NR	NR	NR
	03/11/02	NM	NR	NR	NR
	11/29/01	NM	NR	NR	NR
	09/06/01	NM	NR	NR	NR
	05/18/01	6.47	NR	NR	NR
	05/27/99	3.66	NR	NR	NR
	03/08/99	3	NR	NR	NR
	12/01/98	3.65	NR	NR	NR
	08/26/98	3.11	NR	NR	NR
	06/10/98	2.45	NR	NR	NR
	03/16/98	3.91	NR	NR	NR
	12/18/97	2.31	NR	NR	NR
	09/17/97	2.14	NR	NR	NR
1065MW9A (shallow)	03/07/07	0.52	-65.0	6.70	15.70
	12/05/06	0.93	177.3	6.9	19.1
	08/16/06	1.74	-103	6.66	19.90
	05/24/06	2.13	-112	6.81	18.2
	03/09/06	0.59	121.3	6.9	15.5
	11/30/05	0.77	NR	NR	NR
	08/31/05	0.7	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/06/05	1.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen and Field Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065MW9A (shallow)	12/17/04	0.85	NR	NR	NR
	08/11/04	0.3	NR	NR	NR
	05/27/04	0.5	NR	NR	NR
	03/10/04	0.39	NR	NR	NR
	12/08/03	1.6	NR	NR	NR
	08/14/03	0.9	NR	NR	NR
	06/09/03	3.1	NR	NR	NR
	03/18/03	1.4	NR	NR	NR
1065MW9B (intermediate)	03/07/07	0.21	12.00	7.02	17.80
	12/07/06	3.8	191	6.6	15.5
	08/16/06	1.82	197.40	6.89	17.70
	05/25/06	0.36	57.7	6.8	17.3
	03/09/06	0.61	200.1	7.51	15.5
	11/29/05	0.9	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/06/05	2.1	NR	NR	NR
	12/17/04	0.6	NR	NR	NR
	08/11/04	1.6	NR	NR	NR
	05/27/04	0.76	NR	NR	NR
	03/10/04	0.37	NR	NR	NR
	12/08/03	3	NR	NR	NR
	08/13/03	0.9	NR	NR	NR
	06/09/03	2.1	NR	NR	NR
	03/18/03	1.4	NR	NR	NR
1065MW10A (shallow)	03/07/07	0.60	-109.00	6.80	13.60
	03/16/06	0.5	-120.3	6.65	14.8
	04/11/05	0.8	NR	NR	NR
	03/10/04	0.24	NR	NR	NR
	12/08/03	0.8	NR	NR	NR
	08/14/03	0.8	NR	NR	NR
	06/06/03	0.6	NR	NR	NR
	03/18/03	1.2	NR	NR	NR
1065MW10B (intermediate)	03/07/07	4.80	19.00	6.80	16.70
	03/09/06	NM	NM	7.06	15.3
	04/11/05	2.6	NR	NR	NR
	03/10/04	1.7	NR	NR	NR
	12/03/03	2.6	NR	NR	NR
	08/13/03	1	NR	NR	NR
	06/03/03	0.9	NR	NR	NR
	03/18/03	1.9	NR	NR	NR
1065MW11A (shallow)	03/07/07	0.32	97.00	6.94	16.40
	03/09/06	0.52	112.1	7.69	14.3
	04/11/05	1.2	NR	NR	NR
	03/17/04	0.92	NR	NR	NR
	12/08/03	5.8	NR	NR	NR
	08/14/03	0.8	NR	NR	NR
	06/06/03	7.7	NR	NR	NR
	03/18/03	0.4	NR	NR	NR
1065MW11B (intermediate)	03/07/07	0.27	75.00	6.80	17.30
	03/07/06	NM	NM	7	12.9
	04/11/05	2.2	NR	NR	NR
	03/09/04	1.91	NR	NR	NR
	12/04/03	2.91	NR	NR	NR
	08/13/03	1.2	NR	NR	NR
	06/03/03	1.2	NR	NR	NR
	03/18/03	1.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen and Field Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065MW101A (shallow)	06/10/08	0.86	-33.6	6.59	19.51
	03/01/07	0.48	-85.10	6.50	13.66
	12/06/06	1.1	-97.1	6.79	15.76
	08/16/06	0.47	-97.40	6.71	22.00
	05/24/06	0.22	-101.4	6.87	18.98
	03/13/06	0.82	-95.5	6.88	14.46
	11/29/05	0.8	NR	NR	NR
	08/31/05	0.7	NR	NR	NR
	05/26/05	0.3	NR	NR	NR
	03/29/05	0.2	NR	NR	NR
	12/17/04	0.3	NR	NR	NR
	08/13/04	0.2	NR	NR	NR
1065MW102A (shallow)	06/10/08	0.59	-56.4	6.66	18.19
	03/01/07	3.57	14.80	6.46	12.29
	12/06/06	1.01	-100.8	7.06	14.09
	08/16/06	0.66	-88.50	6.77	20.77
	05/24/06	0.25	-40.6	6.73	17.89
	03/14/06	4.87	91.1	6.72	11.69
	11/29/05	0.6	NR	NR	NR
	08/30/05	0.2	NR	NR	NR
	05/24/05	1.3	NR	NR	NR
	03/29/05	1	NR	NR	NR
	12/15/04	0.2	NR	NR	NR
	08/11/04	0.2	NR	NR	NR
1065MW103A (shallow)	06/11/08	0.89	-11.2	6.61	20.84
	08/21/07	0.50	-60.70	NR	21.58
	06/07/07	1.48	204	6.8	18.4
1047MW101 (shallow)	03/01/07	0.21	171.00	6.10	13.00
	12/07/06	NM	NM	6.3	14.1
	08/16/06	3.81	204.10	6.93	18.10
	05/25/06	1.21	137.1	6.94	15.9
	03/07/06	1	181.7	7.5	13.8
	11/30/05	0.7	NR	NR	NR
	08/30/05	0.9	NR	NR	NR
	05/26/05	0.6	NR	NR	NR
	04/06/05	1.1	NR	NR	NR
	12/16/04	0.7	NR	NR	NR
	08/13/04	2.8	NR	NR	NR
	05/27/04	0.91	NR	NR	NR
	03/11/04	3.39	NR	NR	NR
	12/10/03	1.5	NR	NR	NR

Notes
1 - Piezometer 1065PZ4B was mistakenly sampled instead of the 1065PZ4A during the Second Quarter 2008.
mg/L - milligrams per liter
NM - Not measured
NR - Not reported
Table 11 in the main report identifies current and historical
data qualifiers.

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ1A (shallow)	03/01/07	550	550	57	0.2	0.71	< 0.05	7.7	< 0.04 UJ
	12/05/06	590	590	71	0.23	< 0.05	< 0.05	< 0.5	< 0.04
	08/17/06	560	560	72	0.22	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	05/24/06	590	590	75	0.2	< 0.05	< 0.05	0.88	< 0.04 R
	03/14/06	500	500	64	0.19	0.76	< 0.05	14	< 0.04
	12/01/05	590	590	75	0.24	< 0.05	< 0.05	0.58	< 0.04
	08/31/05	580	580	63	0.24	< 0.05	< 0.05	< 0.5	< 0.04
	06/02/05	580	580	63	0.27	< 0.05	< 0.05	4.7	< 0.04
	03/29/05	480	480	42	0.19	0.37	< 0.05	32	< 0.04
	03/08/99	551	551	64.4	NA	1.7	NA	15	NA
	11/30/98	602	602	89	NA	0.46	NA	< 0.5	NA
	08/26/98	550	550	63	NA	< 0.4	NA	< 5	NA
	06/10/98	572	572	56.4	NA	0.995	NA	9.18	NA
	03/16/98	518	518	48.6	NA	2.84	NA	27.9	NA
	12/18/97	588	588	79.3	NA	0.013	NA	1.08	NA
	09/17/97	272	272	18.4 D	NA	0.678	NA	38.6	NA
1065PZ1B (intermediate)	03/07/07	420	420	170	< 0.1	< 0.05	< 0.05	62	0.04
	12/05/06	360	360	160	< 0.1	0.22	< 0.05	72	< 0.04
DUP1205061A	12/05/06	340	340	160	< 0.1	0.22	< 0.05	70	< 0.04
1065PZ1BCL	12/05/06	335	335	174	< 1 U	0.27	< 0.1 U	82.2	< 0.05
	08/15/06	440	440	180	< 0.1	< 0.05	< 0.05	60	0.05
	05/24/06	230	230	98	< 0.1	0.42	< 0.05	43	< 0.04 R
	03/07/06	390	390	180	< 0.1	< 0.05	< 0.05	55	0.06
	11/29/05	350 J+	350	160	< 0.1	0.24	< 0.05	62	< 0.04
	08/30/05	310	310	120	< 0.1 UJ	0.26	< 0.05 UJ	75	< 0.04
	05/24/05	350	350	170	< 0.1	< 0.05	< 0.05	55	0.05
DUP0524052A	05/24/05	370	370	170	< 0.1	0.05	< 0.05	57	< 0.04
	04/05/05	380	380	170	< 0.1	0.09	< 0.05	57	< 0.04
	03/08/99	391	391	65	NA	< 0.08	NA	67	NA
	11/30/98	389	389	87.7	NA	0.12	NA	82	NA
	08/26/98	390	390	58	NA	< 0.5	NA	66	NA
	08/26/98	390	390	58	NA	< 0.5	NA	66	NA
	06/10/98	406	406	59	NA	0.051	NA	62.7	NA
	03/16/98	384	384	57.8 D	NA	0.02	NA	63.8 D	NA
	12/18/97	393	393	65.9 D	NA	< 0.01	NA	71.4 D	NA
	09/17/97	372	372	61.7 D	NA	0.09	NA	72 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ2A	03/01/07	220	220	30	0.27	1.2	< 0.05	39	< 0.04 UJ
(shallow)	12/06/06	340	340	57	0.26	< 0.05	< 0.05	2.4	< 0.04 UJ
	08/17/06	300	300	50	0.29	< 0.05	< 0.05	1.4	< 0.04 UJ
	05/24/06	340	340	59	0.26	< 0.05	< 0.05	5.5	< 0.04 R
	03/13/06	270	270	90	0.29	< 0.05 UJ	< 0.05 UJ	18	< 0.04 UJ
	12/01/05	340	340	37	0.28	< 0.05	< 0.05	2.9	< 0.04
	08/30/05	350	350	37	0.28 J-	< 0.05	< 0.05 UJ	< 0.5	< 0.04
	05/24/05	330	330	39	0.24	< 0.05	< 0.05	< 0.5	< 0.04
	04/01/05	300	300	30	0.28	0.13	< 0.05	33	< 0.04
DUP0401052A	04/01/05	290	290	30	0.32	0.16	< 0.05	35	< 0.04
	03/03/99	353	353	63.7	NA	< 0.04	NA	12	NA
	11/24/98	368	368	99.7	NA	1.1	NA	26	NA
	08/25/98	350	350	57	NA	< 1	NA	< 13	NA
	08/25/98	NA	350	NA	NA	NA	NA	NA	NA
	06/09/98	383	383	62.9	NA	0.074	NA	2.22	NA
	03/12/98	358	358	67.3 D	NA	0.012	NA	1.67	NA
	12/17/97	385	385	81.8 D	NA	0.01	NA	1.84	NA
	09/16/97	358	358	77.2 D	NA	< 0.01	NA	4.34	NA
1065PZ2B	03/06/07	200	200	38	< 0.1	2.8	0.08	58	< 0.04
(intermediate)	03/07/06	200	200	36	< 0.1	2.8	< 0.05	55	< 0.04
	04/05/05	180	180	35	< 0.1	2.6	0.06	50	< 0.04
	03/03/99	NA	156	51.5	NA	5.2	NA	52	NA
	11/24/98	NA	162	60.6	NA	5.1	NA	58	NA
	08/25/98	NA	150	38	NA	3.9	NA	43	NA
	06/09/98	NA	156	43.5	NA	4.56	NA	48.5	NA
	03/12/98	NA	162	54 D	NA	4.57 D	NA	51.2 D	NA
	12/17/97	NA	165	58.4 D	NA	4.82	NA	61.8 D	NA
	09/16/97	NA	160	57.5 D	NA	4.46 D	NA	61.1 D	NA
1065PZ3A	03/01/07	300	300	50	0.16	0.31	< 0.05	33	< 0.04 UJ
(shallow)	03/13/06	280	280	32	0.28	0.17 J-	< 0.05 UJ	20	< 0.04 UJ
	04/05/05	430	430	71	0.26	1	< 0.05	78	< 0.04
DUP0405052A	04/05/05	420	420	71	0.27	1	< 0.05	78	< 0.04
1065PZ3ACL	04/05/05	435	435	73	0.39	1.03	< 0.02 U	79	< 0.04 U
	03/01/99	NA	245	35	NA	1	NA	32	NA
	11/23/98	NA	245	36	NA	3.2	NA	38	NA
	08/24/98	NA	240	15	NA	1	NA	19	NA
	06/08/98	NA	280	9.19 D	NA	1.42	NA	14.3	NA
	03/11/98	NA	370	34.2 D	NA	1.1 D	NA	26.4 D	NA
	12/16/97	NA	563	41.9 D	NA	2.06	NA	43.2 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ3B (intermediate)	02/28/07	300	300	57	< 0.1	2	< 0.05	68	< 0.04
DUP0228072A	02/28/07	290	290	58	< 0.1	2	< 0.05	68	< 0.04
	03/09/06	250	250	67	< 0.1	2.4	< 0.05	83	< 0.04 UJ
	04/06/05	270	270	69	< 0.1	2.1	< 0.05	83	< 0.04 UJ
	03/01/99	NA	263	111	NA	3.7	NA	100	NA
	11/23/98	NA	261	41	NA	1.3	NA	36	NA
	08/24/98	NA	260	82	NA	3.1	NA	78	NA
	06/08/98	NA	250	93.6 D	NA	3.82 D	NA	89.5 D	NA
	03/11/98	NA	238	91.8 D	NA	3.54 D	NA	76.2 D	NA
	12/16/97	NA	475	95.3 D	NA	4.02	NA	85.2 D	NA
	09/15/97	NA	226	70 D	NA	3.68 D	NA	64.4 D	NA
1065PZ4A (shallow)	03/01/07	680	680	68	0.14	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	12/06/06	680	680	65	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	08/17/06	440	440	67	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	05/24/06	580	580	68	0.16	< 0.05	< 0.05	4.7	< 0.04 R
	03/09/06	640	640	65	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	11/29/05	570 J+	570	61	0.12	< 0.05	< 0.05	< 0.5	< 0.04
	08/30/05	550	550	62	0.12 J-	< 0.05	< 0.05 UJ	< 0.5	< 0.04
	06/02/05	530	530	57	< 2.5	< 1.3	< 1.3	< 13	< 0.04
	04/01/05	500	500	62	0.13	< 0.05	< 0.05	< 0.5	< 0.04
	03/08/99	NA	364	58.7	NA	< 0.04	NA	34	NA
	12/01/98	NA	456	76.9	NA	< 0.04	NA	18	NA
	08/27/98	NA	410	52	NA	< 0.5	NA	33	NA
	06/11/98	NA	380	52.3	NA	< 0.05	NA	38.9	NA
	03/17/98	NA	368	54.9 D	NA	0.01	NA	39.3 D	NA
	12/22/97	NA	475	66.7 D	NA	0.015	NA	25.8 D	NA
	09/18/97	NA	517	72.7 D	NA	0.034	NA	31.7 D	NA
1065PZ4B (intermediate)	03/01/07	300	300	56	< 0.1	4	< 0.05	64	< 0.04 UJ
	03/13/06	280	280	50	< 0.1	4	< 0.05	60	< 0.04 UJ
	04/05/05	270	270	50	< 0.1	4.7	< 0.05	59	< 0.04
	03/08/99	NA	225	55.7	NA	4.2	NA	64	NA
	12/01/98	NA	225	68.2	NA	5.1	NA	71	NA
	08/27/98	NA	210	46	NA	4.3	NA	58	NA
	06/11/98	NA	224	49.2	NA	4.51	NA	59.9	NA
	03/17/98	NA	222	49.5 D	NA	4.56 D	NA	60.2 D	NA
	12/22/97	NA	225	55 D	NA	5.04 D	NA	71.7 D	NA
	09/18/97	NA	216	53.4 D	NA	4.6 D	NA	64.2 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ5AR (shallow)	03/01/07	790	790	65	0.22	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	12/07/06	720	720	66	0.23	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	08/16/06	730	730	66	0.26	< 0.05	< 0.05	< 0.5	< 0.04
	05/24/06	700	700	64	0.25	< 0.05	< 0.05	0.6	< 0.04 R
	03/07/06	780	780	68	0.2	< 0.05	< 0.05	< 0.5	< 0.04
DUP0307062B	03/07/06	780	780	68	0.2	< 0.05	< 0.05	< 0.5	< 0.04
1065PZ5ARCL	03/07/06	776	776	71.1	< 1 U	< 0.02 U	< 0.02 U	0.5	< 0.05 U UJ
	11/29/05	780 J+	780	68	0.25	< 0.05	< 0.05	< 0.5	< 0.04
	08/30/05	780	780	70	0.27 J-	0.33	0.07 J-	0.67	< 0.04
	05/24/05	670	670	63	0.23	< 0.05	< 0.05	5.3	< 0.04
	04/11/05	790	790	76	0.27	< 0.05	< 0.05	< 0.5	< 0.04
1065PZ5B (intermediate)	03/01/07	230	230	39	< 0.1	4.2	< 0.05	70	< 0.04 UJ
	03/13/06	230	230	40	< 0.1	3.5	< 0.05	80	< 0.04 UJ
	04/11/05	160	160	41	< 0.1	3.5	< 0.05	75	< 0.04
	03/03/99	NA	174	40.5	NA	4.3	NA	54	NA
	11/24/98	NA	163	44.2	NA	4.4	NA	48	NA
	08/25/98	140	140	26	NA	3.2	NA	33	NA
	06/09/98	NA	150	28.1	NA	3.49	NA	35.3	NA
	03/12/98	NA	154	29.7 D	NA	3.49 D	NA	39.7 D	NA
	12/17/97	NA	153	32.7 D	NA	4.3	NA	46.9 D	NA
	09/16/97	NA	153	33.9 D	NA	4.48 D	NA	49.4 D	NA
1065PZ6A (shallow)	04/06/05	240	240	85	< 0.1	4	< 0.05	100	< 0.04
	03/01/99	NA	255	72.4	NA	5.4	NA	95	NA
	03/01/99	NA	NA	72.4	NA	5.4	NA	95	NA
	11/23/98	251	251	85.8	NA	5.9	NA	110	NA
	08/24/98	240	240	56	NA	4.2	NA	75	NA
	08/24/98	NA	NA	56	NA	4.2	NA	75	NA
	06/08/98	NA	202	65.6 D	NA	18.2 D	NA	92.7 D	NA
	06/08/98	NA	NA	65.6 D	NA	18.2 D	NA	92.7 D	NA
	03/11/98	NA	254	65.8 D	NA	4.63 D	NA	87 D	NA
	03/11/98	NA	NA	65.8 D	NA	4.63 D	NA	87 D	NA
	12/16/97	NA	363	70.1 D	NA	6 D	NA	93.9 D	NA
	09/15/97	250	250	71.2 D	NA	5.58 D	NA	97.5 D	NA
	09/15/97	NA	NA	71.2 D	NA	5.58 D	NA	97.5 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ6B (intermediate)	03/07/07	240	240	64	< 0.1	3.5	< 0.05	75	< 0.04
	03/10/06	230	230	88	< 0.1	4.3	< 0.05	97	< 0.04 UJ
	04/05/05	230	230	98	< 0.1	3.6	< 0.05	94	< 0.04
	03/01/99	224	224	56.8	NA	5	NA	66	NA
	11/23/98	227	227	64	NA	4.9	NA	70	NA
	08/24/98	220	220	46	NA	4.1	NA	57	NA
	06/08/98	228	228	54.4 D	NA	5.01 D	NA	72.5 D	NA
	03/11/98	230	230	58.6 D	NA	4.9 D	NA	72 D	NA
	12/16/97	500	500	62 D	NA	5.58 D	NA	81 D	NA
	09/15/97	216	216	58.4 D	NA	5.11 D	NA	80.7 D	NA
1065PZ7A (shallow)	02/27/07	540	540	35	0.12	1.7	< 0.05	74	< 0.04 R
DUP0227072B	02/27/07	530	530	33	0.12	1.7	< 0.05	74	< 0.04 R
	03/15/06	240	240	76	< 0.1	2.5	< 0.05	95	< 0.04
	04/06/05	410	410	37	0.14	2.9	< 0.05	62	< 0.04 UJ
	03/08/99	279	279	16	NA	0.24	NA	35	NA
	03/08/99	NA	NA	16	NA	0.24	NA	35	NA
	12/01/98	269	269	19.6	NA	0.42	NA	31	NA
	12/01/98	NA	NA	19.6	NA	0.42	NA	31	NA
	08/26/98	260	260	14	NA	0.33	NA	32	NA
	08/26/98	NA	NA	14	NA	0.33	NA	32	NA
	06/10/98	282	282	18.7 G	NA	0.717	NA	38.8	NA
	06/10/98	NA	NA	18.7 G	NA	0.717	NA	38.8	NA
	03/16/98	276	276	19 D	NA	0.744 D	NA	38.2 D	NA
	03/16/98	NA	NA	19 D	NA	0.744 D	NA	38.2 D	NA
	12/18/97	270	270	18.2 D	NA	0.633	NA	41.1 D	NA
	09/17/97	599	599	82.1 D	NA	0.011	NA	1.69	NA
	09/17/97	NA	NA	82.1 D	NA	0.011	NA	1.69	NA
1065PZ7B (intermediate)	03/01/07	350	350	150	< 0.1	4.8	< 0.05	190	< 0.04 UJ
	03/15/06	440	440	30	0.13	3.8	< 0.05	61	< 0.04
	04/06/05	240	240	120	< 0.1	3.2	< 0.05	110	0.06 J-
	03/08/99	260	260	46.6	NA	2.6	NA	57	NA
	12/01/98	235	235	56	NA	2.5	NA	61	NA
	08/26/98	240	240	48	NA	2.9	NA	58	NA
	06/10/98	288	288	53.4	NA	2.79	NA	66.3	NA
	03/16/98	270	270	54.8 D	NA	3.28 D	NA	71.2 D	NA
	12/18/97	260	260	63.9 D	NA	3.27	NA	81.8 D	NA
	09/17/97	264	264	57.3 D	NA	3.42 D	NA	72.3 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW9A	03/07/07	490	490	170	0.13	< 0.05	< 0.05	15	< 0.04
(shallow)	12/05/06	450	450	170	0.15	< 0.05	< 0.05	20	< 0.04
DUP1205062C	12/05/06	450	450	170	0.11	< 0.05	< 0.05	19	< 0.04
1065MW9ACL	12/05/06	433	433	192	< 1 U	< 0.1 U	< 0.1 U	19.3	< 0.05
	08/16/06	440	440	160	0.19	< 0.05	< 0.05	16	< 0.04
	05/24/06	430	430	170	0.12	< 0.05	< 0.05	21	< 0.04 R
DUP0524063B	05/24/06	430	430	170	0.12	< 0.05	< 0.05	21	< 0.04 R
1065MW9ACL	05/24/06	436	436	170	< 1 U	< 0.02 U UJ	< 0.02 U	17.3	0.17 J-
	03/09/06	460	460	170	0.12	< 0.05	< 0.05	22	0.07 J-
DUP0309062B	03/09/06	420	420	170	0.11	< 0.05	< 0.05	21	< 0.04 UJ
	11/30/05	450 J+	450	190	0.16	< 0.05	< 0.05	19	< 0.04
DUP1130052B	11/30/05	450 J+	450	180	0.14	< 0.05	< 0.05	19	< 0.04
1065MW9ACL	11/30/05	422	422	202	< 1 U	< 0.1 U UJ	< 0.1 U UJ	18.7	< 0.05 U
	08/30/05	430	430	180	0.13 J-	< 0.05	< 0.05 UJ	22	< 0.04
DUP0830052B	08/30/05	420	420	170	0.13 J-	< 0.05	< 0.05 UJ	22	< 0.04
1065MW9ACL	08/30/05	432	432	159	< 0.3 U	< 0.1 U	< 1 U	22.7	0.05 J-
	05/24/05	410	410	180	0.11	< 0.05	< 0.05	21	< 0.04
	04/06/05	430	430	190	0.18	< 0.05	< 0.05	17	< 0.04 UJ
DUP0406052A	04/06/05	450	450	180	0.17	< 0.05	< 0.05	15	< 0.04 UJ
1065MW9B	03/07/07	280	280	56	< 0.1	5.5	< 0.05	82	< 0.04
(intermediate)	12/07/06	260	260	53	< 0.1	6.1	< 0.05	76	< 0.04 UJ
	08/16/06	170	170	130	< 0.1	14	< 0.05	180	< 0.04
DUP0816062A	08/16/06	250	250	52	< 0.1	5.7	< 0.05	72	< 0.04
1065MW9BCL	08/16/06	253	253	53	< 2 U	6 J-	< 0.02 U	76	< 0.05
	05/25/06	250	250	55	< 0.1	5.4	< 0.05	75	< 0.04
	03/09/06	240	240	55	< 0.1	5.4	< 0.05	73	< 0.04 UJ
	11/29/05	240 J+	240	55	< 0.1	5.9	< 0.05	71	< 0.04
	08/30/05	240	240	50	< 0.1 UJ	5.4	< 0.05 UJ	64	< 0.04
	05/24/05	360	360	48	< 0.1	5	< 0.05	65	< 0.04
	04/06/05	250	250	53	< 0.1	5.3	< 0.05	67	< 0.04 UJ
1065MW10A	03/07/07	260	260	51	< 0.1	< 0.05	< 0.05	48	< 0.04
(shallow)	03/16/06	260	260	55	< 0.1	< 0.05	< 0.05	45	< 0.04 R
	04/11/05	220	220	58	0.11	< 0.05	< 0.05	46	< 0.04

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW10B (intermediate)	03/07/07	270	270	59	< 0.1	5.3	< 0.05	78	< 0.04
	03/09/06	230	230	51	< 0.1	4.5	< 0.05	65	< 0.04 UJ
	04/11/05	240	240	55	< 0.1	4.9	< 0.05	67	< 0.04
1065MW11A (shallow)	03/07/07	190	190	40	< 0.1	4.7	< 0.05	71	< 0.04
	03/09/06	120	120	20	0.13	2.8	< 0.05	34	< 0.04 UJ
	04/11/05	240	240	58	0.12	2.9	< 0.05	84	< 0.04
1065MW11B (intermediate)	03/07/07	270	270	55	< 0.1	4.3	< 0.05	83	< 0.04
	03/07/06	190	190	77	< 0.1	3.8	< 0.05	78	< 0.04
	04/11/05	250	250	72	< 0.1	3.6	< 0.05	82	< 0.04
1065MW101A (shallow)	03/01/07	670	670	44	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	12/06/06	670	670	45	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	08/16/06	690	690	51	0.28	< 0.05	< 0.05	< 0.5	< 0.04
	05/24/06	660	660	44	0.27	< 0.05	< 0.05	< 0.5	< 0.04 R
	03/13/06	600	600	43	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	11/29/05	680 J+	680	46	0.26	< 0.05	< 0.05	0.5	< 0.04
	08/31/05	730	730	51	0.29 J-	< 0.05	< 0.05 UJ	< 0.5	0.06
	05/26/05	740	740	54	0.35	< 0.05	< 0.05	< 0.5	< 0.04
DUP0526051B	05/26/05	780	780	55	0.35	< 0.05	< 0.05	< 0.5	< 0.04
1065MW101ACL	05/26/05	724	724	52	0.3	< 0.1 U	< 1 U	< 1 U	0.140 J-
	03/29/05	670	670	54	0.28	< 0.05	< 0.05	0.98	0.06
1065MW102A (shallow)	03/01/07	81	81	19	0.1	0.23	< 0.05	15	< 0.04 UJ
	12/06/06	220	220	42	0.22	< 0.05	< 0.05	37	< 0.04 UJ
	08/16/06	460	460	100	0.42	0.08	0.36	8.7	0.1
	05/24/06	330	330	66	0.54	< 0.05	< 0.05	11	0.04 J-
	03/14/06	150	150	26	0.25	0.13	< 0.05	16	0.04
	11/29/05	64 J+	64	15	0.15	0.32	< 0.05	24	< 0.04
	05/24/05	330	330	46	0.4	0.07	< 0.05	31	2.4
	03/29/05	220	220	25	0.46	0.2	< 0.05	33	0.11
1065MW103A	08/21/07	390	390	62	0.28	< 0.05	< 0.05	19	0.21
	06/07/07	370	370	180	0.23	< 0.05	0.29	47 J+	< 0.04 UJ
1047MW101	03/01/07	33	33	11	0.1	0.27	< 0.05	5.7	< 0.04 UJ
DUP0301072A	03/01/07	32	32	11	< 0.1	0.28	< 0.05	5.6	< 0.04 UJ
1047MW101CL	03/01/07	38	NA	NA	< 0.2	0.28	< 0.1	6.6	< 0.4 UJ

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1047MW101	03/07/06	30	30	2.9	< 0.1	0.12	< 0.05	2.1	< 0.04
DUP0307062A	03/07/06	29	29	2.9	< 0.1	0.12	< 0.05	2.0	< 0.04
1047MW101CL	03/07/06	31	31	3.4	< 1 U	0.111	< 0.02 U	2.3	< 0.05 U UJ
	04/06/05	95	95	8.9	0.12	0.13	< 0.05	5.1	< 0.04 UJ

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
mg/L - milligrams per liter
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ1A (shallow)	03/01/07	0.07 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	140 Y	< 50	< 300
	12/05/06	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	ND	NA	260 Y	< 50	< 300
	08/17/06	0.06 J	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND	NA	230	< 50	< 300
	05/24/06	0.09 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160 Y	< 50	< 300
	03/14/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	86	58 Y	< 300
	12/01/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160	< 50	< 300
	08/31/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160	< 80	< 480
	06/02/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	170	< 50	< 300
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	56	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	1.2	< 0.5	3	NA	NA	NA	200	< 50	< 300
	05/26/04	< 0.5	1.9	< 0.5	0.76	2.8 C	NA	NA	NA	220	< 50	< 300
	03/19/04	< 0.5	< 0.5	< 0.5	0.78	< 2	NA	NA	NA	230	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	170	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	310 H	< 50	< 300
	06/11/03	< 0.5	< 0.5	< 0.5	0.68	< 2	NA	NA	NA	170 Y	< 50	< 300
	03/17/03	< 0.5	1.2 C	0.86	0.77	< 2	NA	NA	NA	140	< 50	< 300
	12/06/02	< 0.5	2.2	< 0.5	1.2	< 2	NA	NA	NA	200 Y	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	0.92	< 2	NA	NA	NA	180 Y	< 50	< 300
DUP0905021A	09/05/02	< 0.5	< 0.5	< 0.5	0.79	< 2	NA	NA	NA	160 Y	< 50	< 300
	05/30/02	< 0.5	1.6	0.52	1	< 2	NA	NA	NA	120	< 50	< 300
	03/07/02	< 0.5	1.4	< 0.5	0.58	< 2	NA	NA	NA	97	< 50	< 300
	11/29/01	< 0.5	< 0.5	< 0.5	0.96	< 2	NA	NA	NA	190	< 50	< 300
	09/06/01	< 0.5	1.4	< 0.5	0.64	< 2	NA	NA	NA	150	450 [3] Y,NJ	< 300 [3]
DUP0906013A	09/06/01	< 0.5	2.4	< 0.5	0.61	< 2	NA	NA	NA	140	440 [3] Y,NJ	< 300 [3]
1065PZ1ACL	09/06/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	100 g	< 50	< 300
	05/11/01	< 0.5	< 0.5	< 0.5	0.7	< 2	NA	NA	NA	190 Y	< 50	< 300
	07/18/00	NA	NA	NA	NA	NA	NA	NA	NA	120	< 50	NA
	05/27/99	< 0.5	< 0.5	< 0.5	0.93	NA	NA	NA	NA	110 (J25)	94 (J25)	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	0.91	NA	NA	NA	NA	120 (J25)	< 50	< 300
	11/30/98	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	0.89 (J29)	NA	NA	NA	NA	180 (J25, J29)	< 76 (U12)	< 310
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 2 (U18)	NA	NA	NA	NA	130 (J18, J25)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	76 (J25)	65	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ1A (shallow)	03/16/98	< 0.5	< 0.5	< 0.5	1	NA	NA	NA	NA	77 (J25)	< 50	< 300
	12/18/97	< 0.5	< 0.5	0.67	< 1	NA	NA	NA	NA	150 (J25)	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	190 (J25)	< 50	< 300
1065PZ1B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
	12/05/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP1205061A	12/05/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065PZ1BCL	12/05/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	NA	< 50 U	< 48 U	< 290 U
	08/15/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	350 YZ
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP0524052A	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP1217042B	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP1209023A	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ1BCL	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/02	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	<50	<300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ1B (intermediate)	11/30/98	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	NA	NA	NA	NA	< 50 (U29)	< 55 (U12)	< 330
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ2A (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.1	NA	NA	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 100	< 600
	08/17/06	< 0.5	< 0.5	< 0.5	< 1	2.7 C U	NA	NA	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	7.1	NA	NA	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0401052A	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/15/04	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	< 50	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	5	NA	NA	NA	< 50	< 50	< 300
	05/25/04	< 0.5	< 0.5	< 0.5	< 0.5	2.4 C	NA	NA	< 50	< 50	< 50	< 300
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/29/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 UJ	< 300 UJ
	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0511013A	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/25/99	< 0.5	0.74	< 0.5	1.1	NA	NA	NA	NA	< 50	68 (U12)	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ2A (shallow)	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 51	< 310
	08/25/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50	< 50 (U18)	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	66 (R32)	< 300
1065PZ2B (intermediate)	03/06/07	< 0.5	< 0.5	< 0.5	< 1	2.3	NA	NA	NA	< 50	< 50	< 300
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	2.6	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0813032A	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	<50	< 300
	05/25/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 52	< 310
	08/25/98	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ3A	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.5	NA	NA	NA	< 50	< 50	< 300
(shallow)	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0405052A	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3ACL	04/05/05	< 1 U	< 1 U	< 1 U	< 2 U	< 5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/29/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/99	< 0.5	0.82	< 0.5	1.1	NA	NA	NA	NA	< 50	59 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 61	< 370
	08/24/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ3B												
(intermediate)	02/28/07	< 0.5	< 0.5	< 0.5	< 1	2.8	NA	NA	NA	< 50	< 50	< 300
DUP0228072A	02/28/07	< 0.5	< 0.5	< 0.5	< 1	4.8	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0814032A	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3BCL	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 48	< 240
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ3B (intermediate)	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	110 [3] Y,NJ	< 300 [3]
DUP0905012A	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	110 [3] Y,NJ	< 300 [3]
1065PZ3BCL	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	< 50	< 50	< 300
	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0517014A	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3BCL	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	< 50	< 50	<500
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	67 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 54	< 320
	08/24/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ4A [4] (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.1 C	NA	NA	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	7 C	NA	NA	NA	< 50	< 100	< 600
	08/17/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	90 HY	390
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	06/02/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/14/03	< 0.5	< 0.5	< 0.5	< 0.5	5.9	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 UJ	< 300 UJ

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ4A [4]	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
(shallow)	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	140 [3] YH,NJ	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 54 (U12)	< 310
	08/27/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/11/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	56 (J25)	< 300
	03/17/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/22/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	09/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ4B [4]	03/01/07	< 0.5	< 0.5	< 0.5	< 1	3	NA	NA	NA	< 50	< 50	< 300
(intermediate)	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
DUP0509012A	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 53 (U12)	< 310
	08/27/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	06/11/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ4B [4] (intermediate)	03/17/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/22/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	09/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U29)	< 300
1065PZ5AR (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	3.9	NA	NA	NA	< 50	< 50	< 300
	12/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	< 50	< 50	< 50	< 300
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	3.9 C	NA	NA	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	3.5 C	NA	NA	NA	< 50	< 50	< 300
	03/07/06	< 0.5	0.54 C	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0307062B	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2.5 U	NA	NA	NA	< 50	< 50	< 300
1065PZ5ARCL	03/07/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2	NA	NA	NA	< 50 U	72 J+	< 300 U
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ5B (intermediate)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.6	NA	NA	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0604032B	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ5BCL	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 250
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	0.62 C	< 0.5	0.75	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ5B (intermediate)	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/25/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	66 (J25)	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	08/25/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ6A (shallow)	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	0.78	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	51 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	480 (J25)	430 (J25)
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 320
	08/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ6B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2.3 U	NA	ND	NA	< 50	< 50	< 300
	03/10/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
DUP0511012A	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 52	< 310
	08/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ7A [4] (shallow)	02/27/07	< 0.5	< 0.5	< 0.5	< 1	12 C	NA	NA	NA	< 50	< 50	< 300
DUP0227072B	02/27/07	< 0.5	< 0.5	< 0.5	< 1	2.8 C	NA	NA	NA	< 50	< 50	< 300
	03/15/06	< 0.5	< 0.5	< 0.5	< 1	**16**	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ7A [4] (shallow)	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 53 (U12)	< 300
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U29)	< 300
1065PZ7B [4] (intermediate)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	3.3	NA	NA	NA	< 50	< 50	< 300
	03/15/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ7B [4] (intermediate)	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 55 (U12)	< 330
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U18)	< 300
1065TMW03 (shallow)	09/06/02	**1,200**	95	290	200	< 10	NA	NA	NA	**6,200**	NA	NA
	06/06/02	**660**	38	150	99	< 20	NA	NA	NA	**4,100**	< 50	< 300
	03/11/02	**170**	14	38	19	**52 C**	NA	NA	NA	**860**	53 YL	< 300
	11/30/01	**3.4 C**	< 0.5	8.8	6.5	< 2	NA	NA	NA	740	91 YL	< 300
	09/06/01	**520**	18	110	109.9	< 10	NA	NA	NA	**3,300 Z**	3,900 [3] YL,NJ	< 3,100 [3]
	05/18/01	**25**	1.9	29	28.3	< 2	NA	NA	NA	**870**	< 50	< 300
	05/27/99	**730**	43	220	232	NA	NA	NA	NA	**18,000 (J25)**	< 50	< 300
	03/09/99	**270**	39	240	400	NA	NA	NA	NA	**13,000**	< 50	< 300
	12/01/98	**4,300**	**1,400**	**11,000**	**20,000**	NA	NA	NA	NA	**910,000 (J25)**	< 50	< 300
	08/27/98	**1,900 (J18)**	**200 (J18)**	**1,700 (J18)**	**2,400 (J18)**	NA	NA	NA	NA	**56,000 (J18, J25)**	< 50	< 300
	06/11/98	**2,000**	**280**	**1,100**	**2,100**	NA	NA	NA	NA	**90,000 (J25)**	< 50	< 300
	03/17/98	**1,800**	**160**	**810**	1,500	NA	NA	NA	NA	**110,000 (J14, J25, J29)**	< 50	< 300
	12/22/97	**1,800**	**210**	**1,000**	**2,900**	NA	NA	NA	NA	**32,000 (J25)**	< 50	< 300
	09/18/97	**1,900**	< 250	**830**	**2,000**	NA	NA	NA	NA	**23,000 (J25)**	< 50	< 300
1065MW9A (shallow)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 5.4 U	NA	NA	NA	< 50	< 50	< 300
	12/05/06	< 0.5	0.57	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP1205062C	12/05/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	12/05/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U UJ	NA	NA	NA	< 50 U	< 65 U	< 390 U
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0524063B	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2 U	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	05/24/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2	NA	NA	NA	< 50 U	< 530 U UJ	< 1,000 U UJ
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0309062B	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW9A (shallow)	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	61 Y	< 300
DUP0816062A	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U UJ	NA	NA	NA	< 50 U	< 50 U	< 300 U
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0830052B	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	08/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0406052A	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	53	< 50	< 300
DUP0310042A	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	0.9	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	120	< 50	< 300
DUP1208031A	12/08/03	0.7	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	130	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	**33**	< 0.5	< 0.5	5	< 2	NA	NA	NA	350	< 50	< 300
DUP0609032C	06/09/03	**25**	< 0.5	< 0.5	5	< 2	NA	NA	NA	310	< 50	< 300
	03/18/03	**5**	0.59 C	< 0.5	1	< 2 U	NA	NA	NA	160	< 50	< 300
	11/05/02	**3.5**	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND	NA	150 YL	< 50	< 300
	10/07/02	**2.66**	< 0.2	< 0.2	2.152	< 1	< 0.5	ND	NA	370	480	< 250
1065MW9B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	2.1 U	NA	NA	NA	< 50	< 50	< 300
	12/07/06	< 0.5	0.61	< 0.5	0.6 C	< 2	NA	NA	< 50	< 50	< 50	< 300
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	3.4 C	NA	NA	NA	< 50	< 50	< 300
DUP0816062A	08/16/06	< 0.5	< 0.5	< 0.5	< 1	2.3 C	NA	NA	NA	< 50	< 50	< 300
1065MW9BCL	08/16/06	< 0.5 U UJ	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	05/25/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW9B (intermediate)	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0813041A	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0527042A	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0609032B	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9BCL	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	120 YL	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	340	< 50	< 250
1065MW10A (shallow)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2.6 U	NA	NA	NA	< 50	< 50	< 300
	03/16/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	55 HY	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW10B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 3.9 U	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	7.5	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW10B (intermediate)	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
DUP0318032A	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	4.6	NA	NA	NA	NA	NA	NA
1065MW10BCL	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW11A (shallow)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0317042B	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	3.7	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	**19**	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
DUP0318032B	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW11B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	2.1 U	NA	NA	NA	< 50	< 50	< 300
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	190 YZ	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/03	< 0.5	< 0.5	< 0.5	< 0.5	3.1 C	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	96 Y	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW101A (shallow)	06/10/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 50	NA	NA
	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	1	< 0.5	0.8	ND	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW101A	08/31/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
(shallow)	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP0526051B	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065MW101ACL	05/26/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	NA	< 50 U	130	< 300 U
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065MW102A	06/10/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 50	NA	NA
(shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/16/06	0.04 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	NA	NA
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/14/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	09/01/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	NA	NA
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/15/04	< 0.5	< 0.5	< 0.5	< 1	< 2	< 0.5	ND	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2	ND	NA	< 50	< 50	< 300
1065MW103A	06/11/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 50	NA	NA
DUP0611083A	06/11/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	ND	NA	< 50	NA	NA
	08/21/07	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 50	NA	NA
	06/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	NA	NA
1027MW01	05/06/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 47	< 280
	02/13/96	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 51	< 310
	11/10/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	08/16/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	06/13/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1027MW03	05/06/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 49	< 290
	02/14/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 52	< 310
	11/10/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	08/18/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	06/13/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1047MW101	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0301072A	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 2	< 5	ND	NA	< 50	NA	NA
	12/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	05/25/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	51 YZ	NA	NA
DUP0307062A	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2 U	< 5 U	ND	< 50	< 50	NA	NA
1047MW101CL	03/07/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5	< 0.5	ND	< 100 U	< 50 U	NA	NA
	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP1130052C	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	< 100 U	< 50 U	NA	NA
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0830052A	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0526052C	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	05/26/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	< 100 U	67	NA	NA
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	12/16/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP1216042A	12/16/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	12/16/04	< 0.5 U	< 0.5 U	< 0.5 U	< 1	< 2 U	< 0.5 U	ND	< 1,000 U	< 50 U	NA	NA
	08/13/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
	05/27/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
DUP0527042B	05/27/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
1047MW101CL	05/27/04	NA	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA
	03/11/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
DUP0311042A	03/11/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
1047MW101CL	03/11/04	NA	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA
	12/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	< 50	< 50	NA	NA

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 6 of the Building 1065 Area CAP (MACTEC, 2007d). The MTBE cleanup level listed is equal to the California Maximum Contaminant Level (EKI, 2002). Total xylenes and TPHg have two different cleanup levels dependent on if the location is inside or outside of the Ecological Buffer Zone. In both cases, the higher cleanup level applies to wells outside of the Ecological Buffer Zone (e.g. the total xylenes cleanup level for wells outside of the Ecological Buffer Zone is 1,750 µg/L, whereas the cleanup level for wells inside the Ecological Buffer Zone is 318 µg/L). Piezometers 1065PZ7A, 1065PZ7B, 1065PZ4A, and 1065PZ4B are the only Building 1065 monitoring locations located inside the Ecological Buffer Zone.

3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
4 - Piezometers 1065PZ4A, 1065PZ4B, 1065PZ7A, and 1065PZ7B are located within the Ecological Buffer Zone and therefore, the lower cleanup level applies per the CAP.
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
TPH - Total petroleum hydrocarbons
BTEX - Benzene, toluene, ethylbenzene, and total xylenes
MTBE - Methyl tert-butyl ether
H - Heavier hydrocarbons contributed to the quantitation.
L - Lighter hydrocarbons contributed to the quantitation.
Y - Sample exhibits a fuel pattern that does not resemble the standard.
Z - Sample exhibits unknown single peak or peaks.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		--	**6**	**10**	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--
1065PZ1A (shallow)	03/01/07	< 100	< 1	**15**	NA	< 1	29,000 J	< 10	< 1	17,000	< 3	44,000	82	< 20	1,100	180,000 J	< 20	660
	12/05/06	< 100	< 1	**16**	NA	< 1	20,000	< 10	2.2	13,000	< 3	43,000	91	< 20	880 J	180,000	< 20	790 J+
	08/17/06	< 100	< 1	**24**	NA	< 1	21,000 J	< 10	< 1	16,000	< 3	50,000	64	< 20	1,600	220,000	< 20	810
	05/24/06	< 100	< 1	**21**	NA	< 1	30,000	< 10	2.6	23,000	< 3	51,000	98	< 20	1,800	220,000	40	740
	03/14/06	< 100	< 1	**11**	NA	< 1	54,000	< 10	1.2	11,000	< 3	43,000	120	< 20	1,700	140,000	< 20	750
	12/01/05	< 100	< 1	**17**	NA	< 1	22,000	< 10	< 1	15,000	< 3	49,000	110	< 20	680	190,000	< 20	760
	08/31/05	< 100 UJ	< 1	**26**	**20 J**	< 1	20,000	< 10	< 1	19,000	< 3	40,000	110	< 20	1,200	170,000	< 20	710
	06/02/05	< 100	< 1	**30**	**35.7**	< 1	36,000	< 10	< 1	25,000	< 3	49,000	160	< 20	1,900 J	190,000	< 20	720
	03/29/05	< 100	< 1	**31**	3.23	< 1	61,000	< 10	2.1	10,000	< 3	42,000	54	< 20	2,300	110,000	< 20	560
	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	280	< 3	NA	NA	< 20	NA	NA	< 20	710
	08/11/04	NA	NA	**23**	NA	< 1	NA	< 10	< 1	18,000	< 3	NA	NA	< 20	NA	NA	< 20	640
	05/26/04	NA	NA	**20**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	780
	03/19/04	NA	NA	**16**	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	1,490 J
	07/18/00	NA	NA	**18**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	7,990	NA	NA	NA	NA	NA	NA	NA	754
	11/30/98	NA	NA	NA	NA	NA	NA	NA	NA	14,200	NA	NA	NA	NA	NA	NA	NA	807
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	6,360	NA	NA	NA	NA	NA	NA	NA	800
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	10,700	NA	NA	NA	NA	NA	NA	NA	766
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	1,340	NA	NA	NA	NA	NA	NA	NA	695
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	9,740	NA	NA	NA	NA	NA	NA	NA	783
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	9,480	NA	NA	NA	NA	NA	NA	NA	819 B
1065PZ1B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	51,000	< 10	< 1	220	< 3	79,000	89	< 20	38,000 J	95,000	< 20	780
	12/05/06	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	210	< 3	67,000	78	< 20	38,000 J	82,000	< 20	750 J+
DUP1205061A	12/05/06	< 100	< 1	< 5	NA	< 1	45,000	< 10	< 1	110	< 3	64,000	68	< 20	36,000 J	78,000	< 20	770 J+
1065PZ1BCL	12/05/06	< 100 U	< 2 U	< 2 U	NA	< 1 U	57,800	< 10 U	< 2 U	138	< 1 U	85,500	80	< 2 U	43,900	96,700	< 20 U	725
	08/15/06	< 100	< 1	< 5	NA	< 1	52,000	< 10	< 1	270	< 3	77,000	86	< 20	35,000	96,000	< 20	890
	05/24/06	< 100	< 1	< 5	NA	< 1	50,000	< 10	< 1	120	< 3	75,000	91	< 20	38,000	87,000	< 20	500
	03/07/06	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	410	< 3	75,000	86	< 20	38,000	91,000	< 20	800
	11/29/05	< 100	< 1	< 5	NA	< 1	51,000	< 10 UJ	< 1	350	< 3	74,000	73	< 20	40,000	91,000	20	640
	08/30/05	< 100 UJ	< 1	< 5	NA	< 1	43,000	< 10	< 1	190	< 3	49,000	79	< 20	50,000	60,000	< 20	630
	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	52,000	< 10	< 1	270	< 3	76,000	86	< 20	40,000	97,000	< 20	750
DUP0524052A	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	53,000	< 10	< 1	240	< 3	78,000	87	< 20	41,000	99,000	< 20	760
	04/05/05	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	430	< 3	66,000	80	< 20	38,000	86,000	< 20	690
	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	< 100 U	< 3	NA	NA	< 20	NA	NA	< 20	780
DUP1217042B	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	< 100 U	< 3	NA	NA	< 20	NA	NA	< 20	770
	08/13/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	310	< 3	NA	NA	< 20	NA	NA	< 20	730
	05/27/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	330	< 3	NA	NA	< 20	NA	NA	< 20	730
	03/10/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	680
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	645
	11/30/98	NA	NA	NA	NA	NA	NA	NA	NA	141	NA	NA	NA	NA	NA	NA	NA	628
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	603
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	603
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	118	NA	NA	NA	NA	NA	NA	NA	655
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	633
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	105	NA	NA	NA	NA	NA	NA	NA	648
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	568 B

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		--	**6**	**10**	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--
1065PZ2A (shallow)	06/10/08	< 100	NA	**13**	NA	NA	NA	NA	NA	12,000	NA	NA	1900	NA	NA	NA	NA	NA
	03/01/07	< 100	< 1	6.2	NA	< 1	19,000 J	< 10	< 1	8,100	< 3	29,000	1,100	< 20	3,600	71,000 J	< 20	350
	12/06/06	< 100	< 1	**14**	NA	< 1	25,000	< 10	< 1	13,000	< 3	48,000	1,500	< 20	840	65,000 J	< 20	390 J-
	08/17/06	< 100	< 1	**16**	NA	< 1	23,000 J	< 10	< 1	13,000	< 3	46,000	880	< 20	740	65,000	< 20	450
	05/24/06	< 100	< 1	**14**	NA	< 1	28,000	< 10	< 1	16,000	< 3	53,000	1,700	< 20	970	76,000	< 20	420
	03/13/06	< 100	< 1	**17**	NA	< 1	28,000	< 10	< 1	19,000	< 3	52,000	1,900	< 20	930	70,000	< 20	440
	12/01/05	< 100	< 1	**14**	NA	< 1	22,000	< 10	2.1	15,000	< 3	44,000	1,400	< 20	750	57,000	21	440
	08/30/05	< 100 UJ	< 1	**19**	**16.8**	< 1	25,000	< 10	< 1	16,000	< 3	44,000	1,200	< 20	830	60,000	< 20	380
	05/24/05	< 100 UJ	< 1	**21**	**19.2**	< 1	31,000	< 10	< 1	17,000	< 3	53,000	1,000	< 20	990	67,000	< 20	450
	04/01/05	< 100	< 1	10	8.88	< 1	32,000 J	< 10	1.1	9,600	< 3	39,000	560 J	< 20	1,200	51,000	< 20	440
DUP0401052A	04/01/05	< 100	< 1	9	9.02	< 1	32,000 J	< 10	< 1	8,600	< 3	38,000	590 J	< 20	1,100	52,000	< 20	410
	12/15/04	NA	NA	6.8	NA	< 1	NA	< 10	< 1	3,300	< 3	NA	NA	< 20	NA	NA	88	410
	08/11/04	NA	NA	**19**	NA	< 1	NA	< 10	< 1	16,000	< 3	NA	NA	< 20	NA	NA	< 20	380
	05/25/04	NA	NA	**18**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	940
	03/15/04	NA	NA	**16**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	430
	07/18/00	NA	NA	**25**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	8,800	NA	NA	NA	NA	NA	NA	NA	514
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	13,700	NA	NA	NA	NA	NA	NA	NA	533 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	8,580	NA	NA	NA	NA	NA	NA	NA	3,720
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	14,400	NA	NA	NA	NA	NA	NA	NA	572
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	13,900	NA	NA	NA	NA	NA	NA	NA	472
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	15,100	NA	NA	NA	NA	NA	NA	NA	555
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	11,400	NA	NA	NA	NA	NA	NA	NA	598
1065PZ2B (intermediate)	03/06/07	< 100	< 1	< 5	NA	< 1	25,000	< 10	< 1	< 100	< 3	37,000	10	< 20	1,000	45,000	< 20	390
	03/07/06	< 100	< 1	< 5	NA	< 1	22,000	13	< 1	140	< 3	35,000	< 10	< 20	1,000	47,000	< 20	350
	04/05/05	< 100	< 1	< 5	NA	< 1	23,000	10	< 1	150	< 3	31,000	< 10	< 20	930	46,000	21	330
	03/10/04	NA	NA	< 5	NA	< 1	NA	11	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	340
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	355
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	365 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	353
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	372
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	359
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	405
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	410
1065PZ3A (shallow)	06/10/08	< 100	NA	< 5	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	NA
	03/01/07	< 100	< 1	< 5	NA	< 1	46,000 J	< 10	< 1	< 100	< 3	51,000	14	< 20	1,300	24,000 J	< 20	360
	03/13/06	< 100	< 1	< 5	NA	< 1	35,000	< 10	2.6	120	< 3	42,000	< 10	< 20	1,700	24,000	< 20	310
	04/05/05	< 100	< 1	< 5	NA	< 1	65,000	< 10	2	430	< 3	72,000	< 10	< 20	2,200	55,000	< 20	640
DUP0405052A	04/05/05	< 100	< 1	< 5	NA	< 1	63,000	< 10	2.1	410	< 3	70,000	< 10	< 20	2,200	52,000	< 20	580
1065PZ3ACL	04/05/05	< 100 U	< 2 U	< 2 U	NA	< 1 U	66,700	< 10 U	< 2 U	< 100 U	< 1 U	79,200	< 10 U	8.4	< 5,000 U	60,700	< 20 U	704
	03/15/04	NA	NA	< 5	NA	< 1	NA	23	1.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	560
	07/18/00	NA	NA	< 5	NA	< 5	NA	13	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	328
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	365 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	325
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	341
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	491
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	410

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		--	**6**	**10**	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--
1065PZ3B (intermediate)	02/28/07	< 100	< 1	< 5	NA	< 1	35,000	27	< 1	< 100	< 3	46,000	< 10	< 20	< 500	62,000	< 20	480
DUP0228072A	02/28/07	< 100	< 1	< 5	NA	< 1	37,000	27	< 1	< 100	< 3	48,000	< 10	< 20	< 500	64,000	< 20	480
	03/09/06	< 100	< 1	< 5	NA	< 1	34,000	34	1	240	< 3	51,000	< 10	< 20	< 500 UJ	67,000	< 20	1,930
	04/06/05	< 100	< 1	< 5	NA	< 1	35,000	29	< 1	< 100	< 3	47,000	< 10	< 20	< 500	63,000	< 20	480
	03/10/04	NA	NA	< 5	NA	< 1	NA	33	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	490
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	610
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	608 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	595
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	612
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	485
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	553
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	533
1065PZ4A (shallow)	03/01/07	< 100	< 1	**12**	NA	< 1	58,000 J	< 10	< 1	37,000	< 3	73,000	2,100	< 20	6,600	110,000 J	< 20	670
	12/06/06	< 100	< 1	**14**	NA	< 1	60,000	< 10	< 1	30,000	< 3	77,000	2,000	< 20	7,700	120,000 J	< 20	660 J-
	08/17/06	< 100	< 1	**12**	NA	< 1	45,000 J	< 10	< 1	23,000	< 3	64,000	1,700	< 20	6,800	120,000	< 20	740
	05/24/06	< 100	< 1	7.9	NA	< 1	43000	< 10	1.7	21,000	< 3	48000	1800	< 20	5400	150,000	26	580
	03/09/06	< 100	< 1	8.9	NA	< 1	47,000	< 10	< 1	29,000	< 3	89,000	1,700	< 20	5,700 J	100,000	< 20	780
	11/29/05	< 100	< 1	**13**	NA	< 1	51,000	< 10 UJ	< 1	28,000	< 3	72,000	1,900	< 20	6,000	110,000	< 20	650
	08/30/05	< 100 UJ	< 1	**13**	**11.9**	< 1	45,000	< 10	< 1	22,000	< 3	58,000	1600	< 20	5,700	100,000	< 20	550
	06/02/05	< 100	< 1	9.6	9.33	< 1	44,000	< 10	< 1	23,000	< 3	58,000	1,600	< 20	5,200 J	99,000	< 20	590
	04/01/05	< 100	< 1	7.6	6.7	< 1	40,000 J	< 10	< 1	20,000	< 3	58,000	1,400 J	< 20	5,300	83,000	< 20	540
	03/15/04	NA	NA	**14**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	670
	07/17/00	NA	NA	**14**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	12,800	NA	NA	NA	NA	NA	NA	NA	522
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	23,700	NA	NA	NA	NA	NA	NA	NA	556
	08/27/98	NA	NA	NA	NA	NA	NA	NA	NA	16,500	NA	NA	NA	NA	NA	NA	NA	3,620
	06/11/98	NA	NA	NA	NA	NA	NA	NA	NA	14,300	NA	NA	NA	NA	NA	NA	NA	577
	03/17/98	NA	NA	NA	NA	NA	NA	NA	NA	14,700	NA	NA	NA	NA	NA	NA	NA	528
	12/22/97	NA	NA	NA	NA	NA	NA	NA	NA	25,600	NA	NA	NA	NA	NA	NA	NA	587
	09/18/97	NA	NA	NA	NA	NA	NA	NA	NA	22,800	NA	NA	NA	NA	NA	NA	NA	608 B
1065PZ4B[3] (intermediate)	06/10/08	< 100	NA	< 5	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	NA
	03/01/07	< 100	< 1	< 5	NA	< 1	27,000 J	31	1.2	< 100	< 3	53,000	< 10	< 20	840	59,000 J	< 20	420
	03/13/06	< 100	< 1	< 5	NA	< 1	25,000	25	1.8	< 100	< 3	57,000	< 10	< 20	880	59,000	< 20	240
	04/05/05	< 100	< 1	< 5	NA	< 1	24,000	25	< 1	150	< 3	51,000	< 10	< 20	800	55,000	< 20	470
	03/17/04	NA	NA	< 5	NA	< 1	NA	24 J	2.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	482
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	468
	08/27/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	4,160
	06/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	458
	03/17/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	450
	12/22/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	451
	09/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	434 B
1065PZ5AR (shallow)	06/10/08	< 100	NA	**30**	NA	NA	NA	NA	NA	24,000	NA	NA	1,800	NA	NA	NA	NA	NA
	03/01/07	< 100	< 1	**27**	NA	< 1	81,000 J	< 10	< 1	32,000	< 3	75,000	1,900	< 20	5,900	86,000 J	< 20	690
	12/07/06	< 100	< 1	**32**	NA	< 1	79,000	< 10	< 1	26,000	< 3	81,000	2,000	< 20	6,700	87,000 J	< 20	730
	08/16/06	< 100	< 1	**40**	NA	< 1	87,000	< 10	< 1	24,000	< 3	85,000	1,900	< 20	7,500	94,000	< 20	830
	05/24/06	< 100	< 1	**26**	NA	< 1	74,000	< 10	< 1	19,000	< 3	77,000	2,100	< 20	6500	91,000	< 20	770
	03/07/06	< 100	< 1	**24**	NA	< 1	70,000	< 10	< 1	23,000	< 3	77,000	2,000	< 20	5,800	83,000	< 20	820
DUP0307062B	03/07/06	< 100	< 1	**21**	NA	< 1	69,000	< 10	< 1	19,000	< 3	81,000	2,000	< 20	6,100	86,000	< 20	950
1065PZ5ARCL	03/07/06	< 100 U	< 2 U	**15**	NA	< 1 U	80,000	< 10 U	< 2 U	13,000	< 1 U	86,000	2,100	5.5	6,000	99,000	< 20 U	1,170 J+
	11/29/05	< 100	< 1	**34 J**	NA	< 1	88,000 J	< 10	< 1	27,000 J	< 3	87,000	2,800 J	< 20	6,600	91,000 J	< 20	930
	08/30/05	NA	NA	NA	**42**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	760
	05/24/05	NA	NA	NA	**24.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	820

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ5AR	04/11/05	< 100	< 1	**33**	**26.4**	< 1	90,000	< 10	< 1	32,000	< 3	89,000	2,600	< 20	6,900	95,000	< 20	930
(shallow)	03/10/04	NA	NA	**22**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	850
1065PZ5B	03/01/07	< 100	< 1	< 5	NA	< 1	31,000 J	21	< 1	< 100	< 3	38,000	< 10	< 20	< 500	54,000 J	< 20	430
(intermediate)	03/13/06	< 100	< 1	< 5	NA	< 1	31,000	21	1	110	< 3	44,000	< 10	< 20	500	60,000	23	430
	04/11/05	< 100	< 1	< 5	NA	< 1	27,000	17	< 1	< 100	< 3	36,000	< 10	< 20	530	58,000	< 20	800
	03/10/04	NA	NA	< 5	NA	< 1	NA	14	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	370
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	368
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	331 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	320
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	323
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	300
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	321
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	348
1065PZ6A	06/10/08	< 100	NA	< 5	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	NA
(shallow)	04/06/05	< 100	< 1	< 5	NA	< 1	40,000	37	< 1	< 100	< 3	53,000	< 10	< 20	510	81,000	< 20	630
	03/17/04	NA	NA	< 5	NA	< 1	NA	30 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	570
	07/17/00	NA	NA	< 5	NA	< 5	NA	43	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	576
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	555 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	539
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	554
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	557
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	556
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	579
1065PZ6B	03/07/07	< 100	< 1	< 5	NA	< 1	39,000	43	< 1	< 100	< 3	47,000	< 10	< 20	990 J	57,000	< 20	460
(intermediate)	03/10/06	< 100	< 1	< 5	NA	< 1	38,000	40	< 1	200	< 3	54,000	< 10	< 20	700 J	68,000	< 20	660
	04/05/05	< 100	< 1	< 5	NA	< 1	43,000	38	< 1	260	< 3	51,000	< 10	< 20	530	59,000	< 20	490
	03/09/04	NA	NA	< 5	NA	< 1	NA	42	< 1	< 100	< 3	NA	NA	< 20	NA	NA	27	510
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	465
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	457 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	491
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	475
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	484
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	517
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	511
1065PZ7A																		
(shallow)	02/27/07	< 100	< 1	< 5	NA	< 1	51,000	< 10	1.5	< 100	< 3	81,000	18	< 20	610	41,000	< 20	650
DUP0227072B	02/27/07	< 100	< 1	< 5	NA	< 1	51,000	< 10	1.3	< 100	< 3	92,000	15	< 20	< 500	43,000	< 20	650
	03/15/06	< 100	< 1	< 5	NA	1.1	44,000	19	< 1	< 100	< 3	54,000	< 10	< 20	850	63,000	< 20	370 J
	04/06/05	< 100	< 1	< 5	NA	< 1	45,000	< 10	1.1	< 100	< 3	81,000	< 10	< 20	< 500	38,000	< 20	530
	03/17/04	NA	NA	< 5	NA	< 1	NA	< 10 UJ	2.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	540
	07/17/00	NA	NA	< 5	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	391
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	375
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	374
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	472
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	373
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	374
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	358 B

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		--	**6**	**10**	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--
1065PZ7B (intermediate)	03/01/07	< 100	< 1	< 5	NA	< 1	64,000 J	30	1.6	< 100	< 3	83,000	< 10	< 20	500	94,000 J	< 20	840
	03/15/06	< 100	< 1	< 5	NA	< 1	42,000	< 10	< 1	< 100	< 3	95,000	< 10	< 20	< 500	40,000	< 20	650 J
	04/06/05	< 100	< 1	< 5	NA	< 1	43,000	26	< 1	< 100	< 3	60,000	< 10	< 20	< 500	74,000	< 20	570
	03/17/04	NA	NA	< 5	NA	< 1	NA	31 J	3.3	120	< 3	NA	NA	< 20	NA	NA	< 20	540
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	460
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	434
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	487
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	575
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	508
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	505
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	493 B
1065MW9A (shallow)	03/07/07	< 100	< 1	< 5	NA	< 1	60,000	< 10	< 1	4,500	< 3	88,000	480	< 20	16,000 J	66,000	< 20	680
	12/05/06	< 100	< 1	**27**	NA	< 1	55,000	< 10	< 1	3,700	< 3	78,000	460	< 20	16,000 J	67,000	< 20	760 J+
DUP1205062C	12/05/06	< 100	< 1	**23**	NA	< 1	56,000	< 10	< 1	2,800	< 3	78,000	450	< 20	16,000 J	64,000	< 20	750 J+
1065MW9ACL	12/05/06	< 100 U	< 2 U	**16**	NA	< 1 U	67,600	< 10 U	< 2 U	4,480	< 1 U	99,800	498	2.6	19,600	79,400	< 20 U	743
	08/16/06	< 100	< 1	10	NA	< 1	58,000	< 10	< 1	5,100	< 3	94,000	460	< 20	18,000	75,000	< 20	710
	05/24/06	< 100	< 1	6.8	NA	< 1	61,000	< 10	< 1	5,900	< 3	93,000	540	< 20	17,000	68,000	< 20	770
DUP0524063B	05/24/06	< 100	< 1	6.9	NA	< 1	65,000	< 10	< 1	6,200	< 3	99,000	550	< 20	18,000	72,000	< 20	890
1065MW9ACL	05/24/06	< 100 U	< 2 U	7.5	NA	< 1 U	69,900	< 10 U	< 2 U	7,160 J+	< 1 U	102,000	563	2.6	17,800	76,100	< 20 U	694
	03/09/06	< 100	< 1	5.3	NA	< 1	54,000	< 10	< 1	5,400	< 3	90,000	570	< 20	13,000 J	69,000	< 20	870
DUP0309062B	03/09/06	< 100	< 1	6.3	NA	< 1	53,000	< 10	< 1	6,100	< 3	90,000	600	< 20	12,000 J	69,000	< 20	790
	11/30/05	< 100	< 1	< 5	NA	< 1	57,000	< 10	< 1	3,100	< 3	80,000	460	< 20	14,000	64,000	< 20	820
DUP1130052B	11/30/05	< 100	< 1	< 5	NA	< 1	61,000	< 10	< 1	3,000	< 3	87,000	500	< 20	14,000	70,000	< 20	760
1065MW9ACL	11/30/05	< 100 U	< 2 U	4.4	NA	< 1 U	70,000	< 10 U	< 2 U	3,400	< 1 U	96,000	580	< 2 U	17,000 N	74,000	< 20 U	805
	08/30/05	< 100 UJ	< 1	7.4	8.5	< 1	53,000	< 10	< 1	5,400	< 3	75,000	470	< 20	15,000	59,000	< 20	730
DUP0830052B	08/30/05	< 100 UJ	< 1	8.2	6.9	< 1	56,000	< 10	< 1	5,700	< 3	79,000	520	< 20	14,000	64,000	< 20	730
1065MW9ACL	08/30/05	< 100 U	< 2 U	6.32	NA	< 1 U	63,900	< 10 U	< 2 U	4,840	< 1 U	93,300	564	< 2 U	16,100	72,800	< 20 U	779
	05/24/05	< 100 UJ	< 1	8.5	2.23	< 1	64,000	< 10	< 1	3,500	< 3	91,000	540	< 20	14,000	70,000	< 20	810
	04/06/05	< 100	< 1	10	8.23	< 1	58,000	< 10	< 1	6,100	< 3	85,000	500	< 20	15,000	66,000	< 20	770
DUP0406052A	04/06/05	< 100	< 1	7.1	4.36	< 1	62,000	< 10	< 1	3,600	< 3	91,000	450	< 20	17,000	70,000	< 20	670
	12/17/04	NA	NA	8.6	NA	< 1	NA	< 10	19	5,700	< 3	NA	NA	< 20	NA	NA	< 20	810
	08/11/04	NA	NA	7.7	NA	< 1	NA	< 10	< 1	5,400	< 3	NA	NA	< 20	NA	NA	< 20	810
	05/27/04	NA	NA	7.1	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	730
	03/10/04	NA	NA	7.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	720
DUP0310042A	03/10/04	NA	NA	6.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	700
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4 J	NA	NA	NA	NA	NA	NA	NA
1065MW9B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	38,000.00	40	< 1	< 100	< 3	52,000	< 10	< 20	740 J	52,000	< 20	490
	12/07/06	< 100	< 1	< 5	NA	< 1	38,000	36	< 1	< 100	< 3	54,000	< 10	< 20	780	55,000 J	< 20	500
	08/16/06	< 100	< 1	< 5	NA	< 1	37,000	34	1	< 100	< 3	54,000	< 10	< 20	750	56,000	< 20	490
DUP0816062A	08/16/06	< 100	< 1	< 5	NA	< 1	38,000	33	< 1	< 100	< 3	56,000	< 10	< 20	710	60,000	< 20	490
1065MW9BCL	08/16/06	< 100 U	< 60 U	< 100 U	NA	< 5 U	40,100	38	< 20 U	< 100 U	< 50 U	57,000	< 10 U	< 40 U	1110 B	60,800	9 B	505
	05/25/06	< 100 UJ	< 1	< 5	NA	< 1	37,000	38	< 1	< 100	< 3	50,000	< 10	< 20	730	55,000	< 20	430
	05/25/06	< 100 UJ	< 1	< 5	NA	< 1	37,000	38	< 1	< 100	< 3	50,000	< 10	< 20	730	55,000	< 20	430
	03/09/06	< 100	< 1	< 5	NA	< 1	34,000	36	< 1	220	< 3	53,000	< 10	< 20	720 J	59,000	25	570
	11/29/05	< 100	< 1	< 5	NA	< 1	35,000	31 J	< 1	120	< 3	48,000	< 10	< 20	690	52,000	< 20	110
	11/29/05	< 100	< 1	< 5	NA	< 1	35,000	31 J	< 1	120	< 3	48,000	< 10	< 20	690	52,000	< 20	110
	08/30/05	< 100 UJ	< 1	< 5	NA	< 1	32,000	30	< 1	160	< 3	41,000	< 10	< 20	740	47,000	85	470
	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	38,000	34	< 1	< 100	< 3	48,000	< 10	< 20	740	54,000	< 20	490
	04/06/05	< 100	< 1	< 5	NA	< 1	36,000	32	< 1	< 100	< 3	46,000	< 10	< 20	670	51,000	< 20	480

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		--	**6**	**10**	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--
1065MW9B (intermediate)	12/17/04	NA	NA	< 5	NA	< 1	NA	33	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	500
	08/13/04	NA	NA	< 5	NA	< 1	NA	31	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	500
DUP0813041A	08/13/04	NA	NA	< 5	NA	< 1	NA	32	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	460
	05/27/04	NA	NA	< 5	NA	< 1	NA	32	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	450
DUP0527042A	05/27/04	NA	NA	< 5	NA	< 1	NA	31	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	450
	03/10/04	NA	NA	< 5	NA	< 1	NA	29	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW10A (shallow)	06/10/08	< 100	NA	< 5	NA	NA	NA	NA	NA	9,800	NA	NA	280	NA	NA	NA	NA	NA
	03/07/07	< 100	< 1	< 5	NA	< 1	28,000	< 10	< 1	12,000	< 3	34,000	360	< 20	1,700 J	53,000	< 20	400
	03/16/06	< 100 UJ	< 1	< 5	NA	< 1	29,000	< 10	< 1	13,000	< 3	35,000	520	< 20	1,900	57,000 J	< 20	520 J
	04/11/05	< 100	< 1	< 5	NA	< 1	31,000	< 10	< 1	16,000	< 3	36,000	560	< 20	2,000	60,000	< 20	430
	03/10/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	380
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW10B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	37,000	40	< 1	< 100	< 3	50,000	< 10	< 20	560 J	55,000	< 20	530
	03/09/06	< 100	< 1	< 5	NA	< 1	32,000	37	< 1	190	< 3	47,000	< 10	< 20	550 J	57,000	< 20	510
	04/11/05	< 100	< 1	< 5	NA	< 1	38,000	36	< 1	< 100	< 3	48,000	< 10	< 20	560	60,000	< 20	470
	03/10/04	NA	NA	< 5	NA	< 1	NA	26	1.2	NA	< 3	NA	NA	< 20	NA	NA	< 20	520
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW11A (shallow)	03/07/07	< 100	< 1	< 5	NA	< 1	28,000	31	< 1	< 100	< 3	35,000	< 10	< 20	570 J	50,000	< 20	360
	03/09/06	< 100	< 1	< 5	NA	< 1	16,000	12	< 1	120	< 3	18,000	< 10	< 20	< 500 UJ	31,000	< 20	860
	04/11/05	< 100	< 1	< 5	NA	< 1	36,000	32	< 1	< 100	< 3	45,000	< 10	< 20	750	66,000	< 20	500
	03/17/04	NA	NA	< 5	NA	< 1	NA	10 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	190
DUP0317042B	03/17/04	NA	NA	< 5	NA	< 1	NA	12 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	250
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW11B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	48,000	41	< 1	< 100	< 3	48,000	< 10	< 20	700 J	54,000	< 20	510
	03/07/06	< 100	< 1	< 5	NA	< 1	43,000	38	2.5	200	< 3	47,000	< 10	< 20	700	54,000	< 20	860
	04/11/05	< 100	< 1	< 5	NA	< 1	54,000	38	< 1	< 100	< 3	46,000	< 10	< 20	790	61,000	< 20	600
	03/09/04	NA	NA	< 5	NA	< 1	NA	40	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	510
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW101A (shallow)	06/10/08	< 100	NA	**32**	NA	NA	NA	NA	NA	20,000	NA	NA	65	NA	NA	NA	NA	NA
	03/01/07	< 100	< 1	**24**	NA	< 1	22,000 J	< 10	< 1	22,000	< 3	38,000	57	< 20	5,800	210,000 J	< 20	760
	12/06/06	< 100	< 1	**28**	NA	< 1	23,000	< 10	< 1	19,000	< 3	43,000	53	< 20	6,600	230,000 J	< 20	690 J-
	08/16/06	< 100	< 1	**31**	NA	< 1	22,000	< 10	< 1	18,000	< 3	42,000	64	< 20	7,300	230,000	< 20	910
	05/24/06	< 100	< 1	**26**	NA	< 1	23,000	< 10	< 1	22,000	< 3	43,000	66	< 20	7,300	230,000	< 20	830
	03/13/06	< 100	< 1	**24**	NA	< 1	19,000	< 10	< 1	19,000	< 3	38,000	51	< 20	5,700	200,000	< 20	660
	11/29/05	< 100	< 1	**28**	NA	< 1	20,000	< 10 UJ	< 1	19,000	< 3	38,000	59	< 20	6,000	240,000	< 20	1,020
	08/31/05	< 100 UJ	< 1	**30**	**24.8 J**	< 1	19,000	< 10	< 1	18,000	< 3	35,000	79	< 20	7,200	240,000	< 20	960
	05/26/05	< 100	< 1	**26**	**22.9**	< 1	20,000	< 10	< 1	19,000	< 3	46,000 J	100	< 20	6,700	300,000 J	< 20	720
DUP0526051B	05/26/05	< 100	< 1	**26**	**21.3**	< 1	24,000	< 10	< 1	19,000	< 3	41,000 J	100	< 20	6,800	280,000 J	< 20	670
1065MW101ACL	05/26/05	< 100 U	< 2 U	**24**	NA	< 10 U	20,500	< 10 U	< 2 U	17,700	< 1 U	40,000	86.8	11.9	7,510	272,000	< 20 U	965
	03/29/05	< 100	< 1	**23**	**17**	< 1	22,000	< 10	3.7	19,000	< 3	45,000	130	< 20	6,400	260,000	< 20	900
	12/17/04	NA	NA	**21**	NA	< 1	NA	< 10	< 1 U	13,000	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/13/04	NA	NA	**25**	NA	< 1	NA	< 10	1.1	4,000	< 3	NA	NA	25	NA	NA	< 20	NA
1065MW102A (shallow)	06/10/08	< 100	NA	**11**	NA	NA	NA	NA	NA	4,700	NA	NA	480	NA	NA	NA	NA	NA
	03/01/07	< 100	< 1	< 5	NA	< 1	18,000 J	< 10	< 1	1,300	< 3	12,000	250	< 20	3,400	76,000 J	< 20	140
	12/06/06	< 100	< 1	6.3	NA	< 1	28,000	< 10	< 1	1,400	< 3	25,000	460	< 20	5,800	130,000 J	< 20	320 J-
	08/16/06	< 100	< 1	9.6	NA	< 1	29,000	< 10	1.3	130	< 3	24,000	390	< 20	7,900	190,000	< 20	680
	05/24/06	< 100	< 1	**11**	NA	< 1	25,000	< 10	< 1	9,500	< 3	41,000	150	33	3,600	200,000	< 20	560

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		--	**6**	**10**	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--
1065MW102A (shallow)	03/14/06	< 100	< 1	6.8	NA	< 1	14,000	< 10	< 1	1,300	< 3	14,000	180	< 20	4,800	120,000	< 20	450
	11/29/05	< 100	< 1	< 5	NA	< 1	18,000	< 10 UJ	7.8	< 100	< 3	5,900	14	< 20	2,300	23,000	< 20	170
	05/24/05	< 100 UJ	< 1	8.2	4.32	< 1	17,000	< 10	< 1	550	< 3	14,000	220	< 20	7,800	140,000	< 20	470
	03/29/05	< 100	< 1	6.5	5.8	< 1	22,000	< 10	6.9	370	< 3	15,000	220	< 20	6,800	130,000	< 20	340
	12/15/04	NA	NA	**11**	NA	< 1	NA	< 10	< 1	570	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/11/04	NA	NA	**16**	NA	< 1	NA	< 10	11	150	< 3	NA	NA	< 20	NA	NA	25	NA
1065MW103A	06/11/08	< 100	NA	5.8	NA	NA	NA	NA	NA	1,800	NA	NA	1,800	NA	NA	NA	NA	NA
DUP0611083A	06/11/08	130	NA	8	NA	NA	NA	NA	NA	1,900	NA	NA	850	NA	NA	NA	NA	NA
	08/21/07	< 100	NA	6.9	NA	NA	NA	NA	NA	1,500	NA	NA	1,400	NA	NA	NA	NA	550
	06/07/07	< 100	NA	< 5	NA	NA	NA	NA	NA	110	NA	NA	850	NA	NA	NA	NA	820
1027MW01	07/17/00	NA	NA	< 5	NA	< 5	NA	11	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
1027MW03	07/17/00	NA	NA	< 5	NA	< 5	NA	12	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
1047MW101	03/01/07	< 100	< 1	< 5	NA	< 1	8,000 J	< 10	< 1	< 100	< 3	6,800	< 10	< 20	1,400	7,100 J	< 20	< 10
DUP0301072A	03/01/07	< 100	< 1	< 5	NA	< 1	8,500 J	< 10	< 1	< 100	< 3	6,600	< 10	< 20	1,400	7,500 J	< 20	88
1047MW101CL	03/01/07	< 50	0.86	1.1	NA	< 0.02	7,340	< 5	1.6	< 20	0.05	6,410	< 5	1.7	< 2,000	6,970	< 10	52 J-
	03/07/06	< 100	< 1	< 5	NA	< 1	4,300	< 10	2.3	< 100	< 3	4,500	< 10	< 20	1,300	3,100	< 20	180
DUP0307062A	03/07/06	< 100	< 1	< 5	NA	< 1	4,400	< 10	2.5	< 100	< 3	4,700	< 10	< 20	1,300	3,200	< 20	130
1047MW101CL	03/07/06	< 100 U	< 2 U	< 2 U	NA	< 1 U	5,000	< 10 U	< 2 U	< 100 U	< 1 U	4,700	< 10 U	< 2 U	< 5,000 U	< 5,000 U	< 20 U	186 J+
	04/06/05	< 100	< 1	< 5	NA	< 1	5,700	< 10	1.7	< 100	< 3	5,200	< 10	< 20	1,200	< 500 U	< 20	110
	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	1	100	< 3	NA	NA	< 20	NA	NA	< 20	350
DUP0311042A	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	1.1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	310
1047MW101CL	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	< 10	< 500	< 3	NA	NA	< 10	NA	NA	< 20	150 HT-04,J

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 6 of the CAP (MACTEC, 2007d).
3 - Piezometer 1065PZ4B was mistakenly sampled instead of the 1065PZ4A during the Second Quarter 2008.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
-- Cleanup level not established
Bold concentrations indicate cleanup level exceedances.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historic data qualifiers.

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ1A (shallow)	03/14/06	NA	NA	NA	11
	12/01/05	< 0.005	< 0.005	14 J-	25
	08/31/05	< 0.005	< 0.005	13	24
	06/02/05	< 0.005	< 0.005	10	20
	03/29/05	< 0.005	< 0.005	4	11
	03/08/99	< 0.003	< 0.003	7	NA
	11/30/98	< 1.5	< 1.5	10	NA
	08/26/98	< 0.003	< 0.003	8.6	NA
	06/10/98	< 0.25	< 0.25	4.4	NA
	03/16/98	< 0.25 DU	< 0.25 DU	3.3	NA
	12/18/97	< 0.5 DU	< 0.5 DU	13.4	NA
	09/17/97	< 0.5 DU	< 0.5 DU	15.5 D	NA
1065PZ1B (intermediate)	03/08/99	< 0.003	< 0.003	< 0.003	NA
	11/30/98	< 0.006	< 0.006	0.079	NA
	08/26/98	< 0.003	< 0.003	0.0097	NA
	08/26/98	< 0.003	< 0.003	0.0097	NA
	06/10/98	< 0.0005	< 0.0005	0.0017	NA
	03/16/98	< 0.0025 DU	< 0.0025 DU	0.0284 D	NA
	12/18/97	< 0.025 DU	< 0.025 DU	0.196 D	NA
	09/17/97	< 0.0025 DU	< 0.0025 DU	0.0559 D	NA
1065PZ2A (shallow)	03/13/06	NA	NA	NA	8.2
	12/01/05	< 0.005	< 0.005	8.9 J-	10
	08/30/05	< 0.005	< 0.005	11	8.8
	05/24/05	< 0.005	< 0.005	12	12
	04/01/05	< 0.005	< 0.005	4.8	7.8
DUP0401052A	04/01/05	< 0.005	< 0.005	4.3	7.8
	03/03/99	< 0.003	< 0.003	7	NA
	11/24/98	< 0.6	< 0.6	6.6	NA
	08/25/98	< 1.5	< 1.5	12	NA
	06/09/98	< 0.6 DU	< 0.6 DU	9.000 D	NA
	03/12/98	< 0.25 DU	< 0.25 DU	4.290 D	NA
	12/17/97	< 2.5 DU	< 2.5 DU	18.1 D	NA
	09/16/97	< 0.5 DU	< 0.5 DU	8.4 D	NA
1065PZ2B (intermediate)	03/03/99	< 0.003	< 0.003	< 0.003	NA
	11/24/98	< 0.003	< 0.003	< 0.003	NA
	08/25/98	< 0.003	< 0.003	0.0041	NA
	06/09/98	< 0.0005	< 0.0005	0.0008	NA
	03/12/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/17/97	< 0.0005	< 0.0005	0.0007	NA
	09/16/97	< 0.001 DU	< 0.001 DU	0.0214 D	NA
1065PZ3A (shallow)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	0.0006	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	< 0.0005	NA

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ3B (intermediate)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	< 0.0005	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	< 0.0005	NA
	09/15/97	< 0.0005	< 0.0005	0.0063	NA
1065PZ4A (shallow)	03/09/06	NA	NA	NA	12
	11/29/05	< 0.005	< 0.005	16	8.5
	08/30/05	< 0.005	< 0.005	14	9.1
	06/02/05	< 0.005	< 0.005	12	9.3 J+
	04/01/05	< 0.005	< 0.005	11	6.2
	03/08/99	< 0.003	< 0.003	3.4	NA
	12/01/98	< 0.6	< 0.6	6.9	NA
	08/27/98	< 1.5	< 1.5	9.6	NA
	06/11/98	< 0.25 DU	< 0.25 DU	3.3 D	NA
	03/17/98	< 0.25 DU	< 0.25 DU	2.47 D	NA
	12/22/97	< 1.3 DU	< 1.3 DU	14 D	NA
	09/18/97	< 0.5 DU	< 0.5 DU	13.5 D	NA
1065PZ4B (intermediate)	03/08/99	< 0.3	< 0.3	0.057	NA
	12/01/98	< 0.015	< 0.015	0.14	NA
	08/27/98	< 0.003	< 0.003	0.036	NA
	06/11/98	< 0.0005	< 0.0005	0.001	NA
	03/17/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/22/97	< 0.0025 DU	< 0.0025 DU	0.0721 D	NA
	09/18/97	< 0.005 D	< 0.005 D	0.133 D	NA
1065PZ5AR (shallow)	03/07/06	NA	NA	NA	42
DUP0307062B	03/07/06	NA	NA	NA	42
1065PZ5ARCL	03/07/06	NA	NA	NA	43.5
	11/29/05	< 0.005	< 0.005	12	49
	08/30/05	< 0.005	< 0.005	3.2	37
	05/24/05	< 0.005	< 0.005	6.9	57
	04/11/05	< 0.005	< 0.005	12	47
	03/12/98	NA	NA	2.710 D	NA
	09/16/97	NA	NA	0.0645 D	NA
1065PZ5B (intermediate)	03/03/99	< 0.003	< 0.003	< 0.003	NA
	11/24/98	< 0.003	< 0.003	< 0.003	NA
	08/25/98	< 0.003	< 0.003	< 0.003	NA
	06/09/98	< 0.0005	< 0.0005	< 0.0008	NA
	03/12/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/17/97	< 0.0005	< 0.0005	0.0005	NA
	09/16/97	< 0.0005	< 0.0005	0.0148	NA

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ6A (shallow)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	< 0.0005	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	< 0.0005	NA
	09/15/97	< 0.0005	< 0.0005	0.0006	NA
	09/15/97	NA	NA	0.0006	NA
1065PZ6B (intermediate)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	0.0009	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	0.0008	NA
	09/15/97	< 0.0005	< 0.0005	0.0109	NA
1065PZ7A (shallow)	03/08/99	< 0.003	< 0.003	< 0.003	NA
	12/01/98	< 0.003	< 0.003	< 0.003	NA
	08/26/98	< 0.003	< 0.003	< 0.003	NA
	06/10/98	< 0.0005	< 0.0005	< 0.0005	NA
	03/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/18/97	< 0.0005	< 0.0005	< 0.0005	NA
	09/17/97	< 0.0005	< 0.0005	< 0.0005	NA
1065PZ7B (intermediate)	03/08/99	< 0.003	< 0.003	< 0.003	NA
	12/01/98	< 0.003	< 0.003	< 0.003	NA
	08/26/98	< 0.003	< 0.003	< 0.003	NA
	06/10/98	< 0.0005	< 0.0005	0.0007	NA
	03/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/18/97	< 0.0005	< 0.0005	0.0033	NA
	09/17/97	< 0.0005	< 0.0005	0.0166	NA
1065MW9A (shallow)	03/09/06	NA	NA	NA	2.1
DUP0309062B	03/09/06	NA	NA	NA	2.5
	11/30/05	< 0.005	< 0.005	8.4	2.9
DUP1130052B	11/30/05	< 0.005	< 0.005	7.1	2.8
1065MW9ACL	11/30/05	< 0.005 UU	< 0.015 UU	3.7	3
	08/30/05	< 0.005	< 0.005	5.6	3
DUP0830052B	08/30/05	< 0.005	< 0.005	5.1	2.8
1065MW9ACL	08/30/05	0.0013 J-	0.00072 J J-	3 J-	2.9
	05/24/05	< 0.005	< 0.005	4.7	3
	04/06/05	< 0.005	< 0.005	9.2	2.9
DUP0406052A	04/06/05	< 0.005	< 0.005	9.2	2.7
1065MW101A (shallow)	03/13/06	NA	NA	NA	28
	11/29/05	< 0.005	< 0.005	17	33
	08/31/05	< 0.005	< 0.005	12	41
	05/26/05	< 0.005	< 0.005	14	51
DUP0526051B	05/26/05	< 0.005	< 0.005	13	51
1065MW101ACL	05/26/05	0.00077	< 0.0015 U	10	34.7
	03/29/05	< 0.005	< 0.005	15	34

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW102A (shallow)	03/14/06	NA	NA	NA	4.8
	11/29/05	< 0.005	< 0.005	1.4	7.8
	09/01/05	< 0.005	< 0.005	4.3 J-	17
	05/24/05	< 0.005	< 0.005	2.9	12
	03/29/05	< 0.005	< 0.005	1.5	8.3

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Fourth Quarter 2004.
mg/L - milligrams per liter
TOC - Total Organic Carbon
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-6
Results of Arsenic Speciation Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [2]	Percentage of As III [3]	Percentage of As V [3]
	Analytical Method[1]	**1632M**	**1632M**	**1632M**	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels[4]		**10**	--	--	--	--
1065PZ1A (shallow)	08/31/05	**20 J**	22.1 J	< 1 JU	>99	<1
	06/02/05	**35.7**	30	5.7	84	16
	03/29/05	3.23	2.55	0.678 B	79	21
1065PZ2A (shallow)	08/31/05	**16.8**	17.1	< 1 U	>99	<1
	05/24/05	**19.2**	15	4.2	78	22
	04/01/05	8.88	6.15	2.73	69	31
DUP0401052A	04/01/05	9.02	5.78	3.25	64	36
1065PZ4A (shallow)	08/31/05	**11.9**	12.9	< 1 U	>99	<1
	06/02/05	9.33	8.44	0.89	90	10
	04/01/05	6.7	6.4	0.306 B	95	5
1065PZ5AR (shallow)	08/31/05	**42**	41	< 10 U	>99	<1
	05/24/05	**24.5**	20	4.5	82	18
	04/11/05	**26.4**	19	7.39	72	28
1065MW9A (shallow)	08/30/05	8.5	8.3	< 1 U	>99	<1
DUP0830052B	08/30/05	6.9	7	< 0.5 U	>99	<1
	05/24/05	2.23	1.14	1.09	51	49
	04/06/05	8.23	5.67	2.56	69	31
DUP0406052A	04/06/05	4.36	4.1	0.259	94	6
1065MW101A (shallow)	08/31/05	**24.8 J**	26.2 J	< 1 JU	>99	<1
	05/26/05	**22.9**	18.1	4.8	79	21
DUP0526051B	05/26/05	**21.3**	17.8	3.5	84	16
	03/29/05	**17**	20.1	< 0.14 U	>99	<1
1065MW102A (shallow)	05/24/05	4.32	1.48	2.84	34	66
	03/29/05	5.8	4.47	1.34	77	23

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.

2 - The concentration of As V was determined by the laboratory by subtracting the As III concentration from the inorganic As concentration.

3 - Relative percentages of As III and As V were calculated by dividing the As III and As V concentrations by the As concentration and multiplying by 100.

4 - From Table 6 of the Building 1065 CAP (MACTEC, 2007)

µg/L - micrograms per liter

-- Cleanup level not established

Bold concentrations indicate cleanup level exceedances.

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
Shallow Zone Monitoring Wells					
1065PZ1A[2]	02/26/07	5.40	13.30	7.90	PZ
	12/04/06	5.68	13.30	7.62	PZ
	08/14/06	5.80	13.30	7.50	PZ
	05/22/06	5.53	13.30	7.77	PZ
	03/06/06	5.33	13.30	7.97	PZ
	11/28/05	5.70	13.30	7.60	PZ
	08/29/05	5.76	13.30	7.54	PZ
	05/23/05	5.53	13.30	7.77	PZ
	03/14/05	5.50	13.30	7.80	PZ
	12/13/04	4.95	13.30	8.35	PZ
	08/09/04	5.88	13.30	7.42	PZ
	05/24/04	5.76	13.30	7.54	PZ
	03/08/04	5.58	13.30	7.72	PZ
	12/01/03	5.63	13.30	7.67	PZ
	08/11/03	5.82	13.30	7.48	PZ
	06/02/03	5.59	13.30	7.71	PZ
	03/10/03	5.56	13.30	7.74	PZ
	12/02/02	5.74	13.30	7.56	PZ
	11/05/02	5.80	13.30	7.50	PZ
	08/26/02	5.75	13.30	7.55	PZ
	05/28/02	5.56	13.30	7.74	PZ
	03/04/02	5.43	13.30	7.87	PZ
	11/26/01	5.64	13.30	7.66	PZ
	08/27/01	5.80	13.30	7.50	PZ
	05/08/01	5.55	13.30	7.75	PZ
1065PZ2A	06/09/08	3.60	12.82	9.22	PZ
	06/04/07	3.47	12.82	9.35	PZ
	02/26/07	3.20	12.82	9.62	PZ
	12/04/06	3.46	12.82	9.36	PZ
	08/14/06	3.40	12.82	9.42	PZ
	05/22/06	3.28	12.82	9.54	PZ
	03/06/06	3.12	12.82	9.70	PZ
	11/28/05	3.40	12.82	9.42	PZ
	08/29/05	3.35	12.82	9.47	PZ
	05/23/05	3.24	12.82	9.58	PZ
	03/14/05	3.31	12.82	9.51	PZ
	12/13/04	3.32	12.82	9.50	PZ
	08/09/04	3.92	12.82	8.90	PZ
	05/24/04	3.80	12.82	9.02	PZ
	03/08/04	3.24	12.82	9.58	PZ
	12/01/03	3.60	12.82	9.22	PZ
	08/11/03	4.13	12.82	8.69	PZ
	06/02/03	3.77	12.82	9.05	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ2A	03/10/03	3.65	12.82	9.17	PZ
	12/02/02	3.71	12.82	9.11	PZ
	11/05/02	3.81	12.82	9.01	PZ
	08/26/02	3.66	12.82	9.16	PZ
	05/28/02	3.40	12.82	9.42	PZ
	03/04/02	3.37	12.82	9.45	PZ
	11/26/01	3.44	12.82	9.38	PZ
	08/27/01	3.68	12.82	9.14	PZ
	05/08/01	3.44	12.82	9.38	PZ
1065PZ3A	06/09/08	10.10	23.96	13.86	PZ
	06/04/07	9.89	23.96	14.07	PZ
	02/26/07	9.60	23.96	14.36	PZ
	12/04/06	9.78	23.96	14.18	PZ
	08/14/06	9.38	23.96	14.58	PZ
	05/22/06	9.08	23.96	14.88	PZ
	03/06/06	8.75	23.96	15.21	PZ
	11/28/05	9.57	23.96	14.39	PZ
	08/29/05	9.02	23.96	14.94	PZ
	05/23/05	8.65	23.96	15.31	PZ
	03/14/05	8.63	23.96	15.33	PZ
	12/13/04	9.40	23.96	14.56	PZ
	08/09/04	9.97	23.96	13.99	PZ
	05/24/04	9.97	23.96	13.99	PZ
	03/08/04	9.60	23.96	14.36	PZ
	12/01/03	Dry	23.96	11.96 [3]	PZ
	08/11/03	Dry	23.96	11.96 [3]	PZ
	06/02/03	Dry	23.96	11.96 [3]	PZ
	03/10/03	10.47	23.96	13.49	PZ
	12/02/02	9.88	23.96	14.08	PZ
	11/05/02	10.02	23.96	13.94	PZ
	08/26/02	9.45	23.96	14.51	PZ
	05/28/02	9.41	23.96	14.55	PZ
	03/04/02	9.11	23.96	14.85	PZ
	11/26/01	9.60	23.96	14.36	PZ
	08/27/01	9.76	23.96	14.20	PZ
	05/08/01	8.28	23.96	15.68	PZ
1065PZ4A	06/09/08	5.33	14.19	8.86	PZ
	06/04/07	5.54	14.19	8.65	PZ
	02/26/07	5.15	14.19	9.04	PZ
	12/04/06	5.60	14.19	8.59	PZ
	08/14/06	5.22	14.19	8.97	PZ
	05/22/06	5.21	14.19	8.98	PZ
	03/06/06	4.90	14.19	9.29	PZ
	11/28/05	5.65	14.19	8.54	PZ
	08/29/05	5.02	14.19	9.17	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ4A	05/23/05	4.25	14.19	9.94	PZ
	03/14/05	4.88	14.19	9.31	PZ
	12/13/04	5.47	14.19	8.72	PZ
	08/09/04	5.51	14.19	8.68	PZ
	05/24/04	4.89	14.19	9.30	PZ
	03/08/04	5.17	14.19	9.02	PZ
	12/01/03	5.19	14.19	9.00	PZ
	08/11/03	5.65	14.19	8.54	PZ
	06/02/03	5.51	14.19	8.68	PZ
	03/10/03	5.26	14.19	8.93	PZ
	12/02/02	5.42	14.19	8.77	PZ
	11/05/02	5.37	14.19	8.82	PZ
	08/26/02	4.36	14.19	9.83	PZ
	05/28/02	4.39	14.19	9.80	PZ
	03/04/02	4.63	14.19	9.56	PZ
	11/26/01	4.95	14.19	9.24	PZ
	08/27/01	4.62	14.19	9.57	PZ
	05/08/01	4.06	14.19	10.13	PZ
1065PZ5AR	06/09/08	3.90	17.38	13.48	PZ
	06/04/07	3.84	17.38	13.54	PZ
	02/26/07	3.39	17.38	13.99	PZ
	12/04/06	3.70	17.38	13.68	PZ
	08/14/06	3.55	17.38	13.83	PZ
	05/22/06	3.15	17.38	14.23	PZ
	03/06/06	2.83	17.38	14.55	PZ
	11/28/05	3.40	17.38	13.98	PZ
	08/29/05	3.21	17.38	14.17	PZ
	05/23/05	3.01	17.38	14.37	PZ
	03/14/05	3.05	17.38	14.33	PZ
	12/13/04	3.40	17.38	13.98	PZ
	08/09/04	3.92	17.38	13.46	PZ
	05/24/04	3.88	17.38	13.50	PZ
	03/08/04	3.58	17.38	13.80	PZ
	12/01/03	5.10	17.38	12.28	PZ
	08/11/03	6.16	17.38	11.22	PZ
	06/02/03	5.22	17.38	12.16	PZ
	03/10/03	4.11	17.38	13.27	PZ
	11/05/02	4.30	17.38	13.08	PZ
1065PZ6A	06/09/08	11.62	26.19	14.57	PZ
	06/04/07	NM	26.19	NM	PZ
	02/26/07	NM	26.19	NM	PZ
	12/04/06	NM	26.19	NM	PZ
	08/14/06	10.68	26.19	15.51	PZ
	05/22/06	NM	26.19	NM	PZ
	03/06/06	NM	26.19	NM	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ6A	11/28/05	10.50	26.19	15.69	PZ
	08/29/05	10.06	26.19	16.13	PZ
	05/23/05	9.95	26.19	16.24	PZ
	03/14/05	9.98	26.19	16.21	PZ
	12/13/04	10.90	26.19	15.29	PZ
	08/09/04	11.35	26.19	14.84	PZ
	05/24/04	11.40	26.19	14.79	PZ
	03/08/04	11.23	26.19	14.96	PZ
	12/01/03	13.36	26.19	12.83	PZ
	08/11/03	14.54	26.19	11.65	PZ
	06/02/03	14.36	26.19	11.83	PZ
	03/10/03	12.52	26.19	13.67	PZ
	12/02/02	11.37	26.19	14.82	PZ
	11/05/02	11.69	26.19	14.50	PZ
	08/26/02	10.88	26.19	15.31	PZ
	05/28/02	10.79	26.19	15.40	PZ
	03/04/02	10.42	26.19	15.77	PZ
	11/26/01	11.02	26.19	15.17	PZ
	08/27/01	11.23	26.19	14.96	PZ
	05/08/01	10.48	26.19	15.71	PZ
1065PZ7A	06/09/08	3.15	16.11	12.96	PZ
	06/04/07	3.56	16.11	12.55	PZ
	02/26/07	3.28	16.11	12.83	PZ
	12/04/06	3.24	16.11	12.87	PZ
	08/14/06	3.03	16.11	13.08	PZ
	05/22/06	2.72	16.11	13.39	PZ
	03/06/06	2.80	16.11	13.31	PZ
	11/28/05	3.01	16.11	13.10	PZ
	08/29/05	2.80	16.11	13.31	PZ
	05/23/05	2.45	16.11	13.66	PZ
	03/14/05	2.48	16.11	13.63	PZ
	12/13/04	3.13	16.11	12.98	PZ
	08/09/04	3.40	16.11	12.71	PZ
	05/24/04	3.04	16.11	13.07	PZ
	03/08/04	3.50	16.11	12.61	PZ
	12/01/03	4.13	16.11	11.98	PZ
	08/11/03	4.82	16.11	11.29	PZ
	06/02/03	4.63	16.11	11.48	PZ
	03/10/03	3.56	16.11	12.55	PZ
	12/02/02	3.32	16.11	12.79	PZ
	11/05/02	3.35	16.11	12.76	PZ
	08/26/02	2.92	16.11	13.19	PZ
	05/28/02	3.05	16.11	13.06	PZ
	03/04/02	2.80	16.11	13.31	PZ
	11/26/01	3.11	16.11	13.00	PZ
	08/27/01	3.14	16.11	12.97	PZ
	05/08/01	2.79	16.11	13.32	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065MW9A[2]	02/26/07	3.48	13.31	9.83	MW
	12/04/06	4.02	13.31	9.29	MW
	08/14/06	4.00	13.31	9.31	MW
	05/22/06	3.64	13.31	9.67	MW
	03/06/06	2.98	13.31	10.33	MW
	11/28/05	3.68	13.31	9.63	MW
	08/29/05	3.78	13.31	9.53	MW
	05/23/05	3.86	13.31	9.45	MW
	03/14/05	3.93	13.31	9.38	MW
	12/13/04	3.90	13.31	9.41	MW
	08/09/04	4.51	13.31	8.80	MW
	05/24/04	4.10	13.31	9.21	MW
	03/08/04	3.94	13.31	9.37	MW
	12/01/03	4.10	13.31	9.21	MW
	08/11/03	4.4	13.31	8.91	MW
	06/02/03	3.90	13.31	9.41	MW
	03/10/03	3.75	13.31	9.56	MW
	11/05/02	4.32	13.31	8.99	MW
1065MW10A	06/09/08	4.58	17.33	12.75	MW
	06/04/07	4.30	17.33	13.03	MW
	02/26/07	4.30	17.33	13.03	MW
	12/04/06	4.11	17.33	13.22	MW
	08/14/06	3.96	17.33	13.37	MW
	05/22/06	3.47	17.33	13.86	MW
	03/06/06	2.89	17.33	14.44	MW
	11/28/05	4.30	17.33	13.03	MW
	08/29/05	3.92	17.33	13.41	MW
	05/23/05	3.50	17.33	13.83	MW
	03/14/05	3.52	17.33	13.81	MW
	12/13/04	5.75	17.33	11.58	MW
	08/09/04	6.05	17.33	11.28	MW
	05/24/04	6.05	17.33	11.28	MW
	03/08/04	4.75	17.33	12.58	MW
	12/01/03	6.08	17.33	11.25	MW
	08/11/03	6.7	17.33	10.63	MW
	06/02/03	6.34	17.33	10.99	MW
	03/10/03	5.30	17.33	12.03	MW
	11/05/02	5.35	17.33	11.98	MW
1065MW11A	06/09/08	9.44	23.61	14.17	MW
	06/04/07	9.30	23.61	14.31	MW
	02/26/07	8.95	23.61	14.66	MW
	12/04/06	9.15	23.61	14.46	MW
	08/14/06	8.84	23.61	14.77	MW
	05/22/06	8.44	23.61	15.17	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065MW11A	03/06/06	8.04	23.61	15.57	MW
	11/28/05	8.61	23.61	15.00	MW
	08/29/05	8.35	23.61	15.26	MW
	05/23/05	8.15	23.61	15.46	MW
	03/14/05	8.26	23.61	15.35	MW
	12/13/04	8.98	23.61	14.63	MW
	08/09/04	9.45	23.61	14.16	MW
	05/24/04	9.45	23.61	14.16	MW
	03/08/04	9.24	23.61	14.37	MW
	12/01/03	11.07	23.61	12.54	MW
	08/11/03	12.3	23.61	11.31	MW
	06/02/03	12.08	23.61	11.53	MW
	03/10/03	10.44	23.61	13.17	MW
	11/05/02	9.69	23.61	13.92	MW
1065MW101A	06/09/08	5.76	13.06	7.30	MW
	06/04/07	5.58	13.06	7.48	MW
	02/26/07	5.70	13.06	7.36	MW
	12/04/06	5.65	13.06	7.41	MW
	08/14/06	5.72	13.06	7.34	MW
	05/22/06	5.69	13.06	7.37	MW
	03/06/06	5.55	13.06	7.51	MW
	11/28/05	5.60	13.06	7.46	MW
	08/29/05	5.67	13.06	7.39	MW
	05/23/05	5.23	13.06	7.83	MW
	03/14/05	5.33	13.06	7.73	MW
	12/13/04	4.20	13.06	8.86	MW
	08/09/04	5.75	13.06	7.31	MW
1065MW102A	06/09/08	5.06	12.83	7.77	MW
	06/04/07	5.11	12.83	7.72	MW
	02/26/07	3.55	12.83	9.28	MW
	12/04/06	4.71	12.83	8.12	MW
	08/14/06	5.00	12.83	7.83	MW
	05/22/06	4.40	12.83	8.43	MW
	03/06/06	3.80	12.83	9.03	MW
	11/28/05	4.75	12.83	8.08	MW
	08/29/05	4.93	12.83	7.90	MW
	05/23/05	4.23	12.83	8.60	MW
	03/14/05	4.17	12.83	8.66	MW
	12/13/04	4.05	12.83	8.78	MW
	08/09/04	5.00	12.83	7.83	MW
1065MW103A	06/09/08	5.23	12.71	7.48	MW
	06/04/07	5.11	12.71	7.60	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1027MW01	06/09/08	9.50	23.10	13.60	MW
	06/04/07	9.29	23.10	13.81	MW
	02/26/07	9.09	23.10	14.01	MW
	12/04/06	9.21	23.10	13.89	MW
	08/14/06	8.95	23.10	14.15	MW
	05/22/06	8.45	23.10	14.65	MW
	03/06/06	8.16	23.10	14.94	MW
	11/28/05	9.04	23.10	14.06	MW
	08/29/05	8.20	23.10	14.90	MW
	05/23/05	7.82	23.10	15.28	MW
	03/14/05	7.89	23.10	15.21	MW
	12/13/04	8.56	23.10	14.54	MW
	08/09/04	9.18	23.10	13.92	MW
	05/24/04	9.09	23.10	14.01	MW
	03/08/04	8.73	23.10	14.37	MW
	12/01/03	10.37	23.10	12.73	MW
	08/11/03	11.19	23.10	11.91	MW
	06/02/03	10.85	23.10	12.25	MW
	03/10/03	9.44	23.10	13.66	MW
	12/02/02	9.08	23.10	14.02	MW
	08/26/02	8.62	23.10	14.48	MW
	05/28/02	8.06	23.10	15.04	MW
	03/04/02	8.45	23.10	14.65	MW
	11/26/01	8.80	23.10	14.30	MW
	08/27/01	8.96	23.10	14.14	MW
	05/08/01	8.19	23.10	14.91	MW
1027MW03	06/09/08	9.47	23.57	14.10	MW
	06/04/07	9.45	23.57	14.12	MW
	02/26/07	9.03	23.57	14.54	MW
	12/04/06	9.25	23.57	14.32	MW
	08/14/06	8.98	23.57	14.59	MW
	05/22/06	8.47	23.57	15.10	MW
	03/06/06	8.30	23.57	15.27	MW
	11/28/05	9.08	23.57	14.49	MW
	08/29/05	8.34	23.57	15.23	MW
	05/23/05	7.77	23.57	15.80	MW
	03/14/05	7.75	23.57	15.82	MW
	12/13/04	8.67	23.57	14.90	MW
	08/09/04	9.05	23.57	14.52	MW
	05/24/04	9.16	23.57	14.41	MW
	03/08/04	8.80	23.57	14.77	MW
	12/01/03	10.61	23.57	12.96	MW
	08/11/03	11.35	23.57	12.22	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1027MW03	06/02/03	11.05	23.57	12.52	MW
	03/10/03	9.46	23.57	14.11	MW
	12/02/02	9.15	23.57	14.42	MW
	08/26/02	8.72	23.57	14.85	MW
	05/28/02	8.68	23.57	14.89	MW
	03/04/02	8.42	23.57	15.15	MW
	11/26/01	8.93	23.57	14.64	MW
	08/27/01	9.04	23.57	14.53	MW
	05/08/01	8.25	23.57	15.32	MW
1047MW101	06/09/08	5.14	19.92	14.78	MW
	06/04/07	5.04	19.92	14.88	MW
	02/26/07	4.69	19.92	15.23	MW
	12/04/06	5.04	19.92	14.88	MW
	08/14/06	4.40	19.92	15.52	MW
	05/22/06	4.72	19.92	15.20	MW
	03/06/06	3.82	19.92	16.10	MW
Intermediate Zone Monitoring Wells					
1065PZ1B [2]	02/26/07	1.51	13.31	11.80	PZ
	12/04/06	2.18	13.31	11.13	PZ
	08/14/06	1.03	13.31	12.28	PZ
	05/22/06	0.72	13.31	12.59	PZ
	03/06/06	0.68	13.31	12.63	PZ
	11/28/05	1.18	13.31	12.13	PZ
	08/29/05	0.78	13.31	12.53	PZ
	05/23/05	0.47	13.31	12.84	PZ
	03/14/05	0.87	13.31	12.44	PZ
	12/13/04	1.22	13.31	12.09	PZ
	08/09/04	1.75	13.31	11.56	PZ
	05/24/04	1.83	13.31	11.48	PZ
	03/08/04	1.82	13.31	11.49	PZ
	12/01/03	2.83	13.31	10.48	PZ
	08/11/03	4.47	13.31	8.84	PZ
	06/02/03	3.54	13.31	9.77	PZ
	03/10/03	2.40	13.31	10.91	PZ
	12/02/02	1.55	13.31	11.76	PZ
	11/05/02	2.02	13.31	11.29	PZ
	08/26/02	1.22	13.31	12.09	PZ
	05/28/02	1.15	13.31	12.16	PZ
	03/04/02	0.90	13.31	12.41	PZ
	11/26/01	1.35	13.31	11.96	PZ
	08/27/01	1.49	13.31	11.82	PZ
	05/08/01	1.06	13.31	12.25	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ2B	06/09/08	1.94	15.56	13.62	PZ
	06/04/07	1.92	15.56	13.64	PZ
	02/26/07	1.55	15.56	14.01	PZ
	12/04/06	1.44	15.56	14.12	PZ
	08/14/06	1.35	15.56	14.21	PZ
	05/22/06	1.02	15.56	14.54	PZ
	03/06/06	1.05	15.56	14.51	PZ
	11/28/05	1.25	15.56	14.31	PZ
	08/29/05	1.09	15.56	14.47	PZ
	05/23/05	1.55	15.56	14.01	PZ
	03/14/05	1.67	15.56	13.89	PZ
	12/13/04	2.13	15.56	13.43	PZ
	08/09/04	2.35	15.56	13.21	PZ
	05/24/04	2.92	15.56	12.64	PZ
	03/08/04	2.32	15.56	13.24	PZ
	12/01/03	4.16	15.56	11.40	PZ
	08/11/03	5.25	15.56	10.31	PZ
	06/02/03	5.28	15.56	10.28	PZ
	03/10/03	3.78	15.56	11.78	PZ
	12/02/02	2.08	15.56	13.48	PZ
	11/05/02	2.62	15.56	12.94	PZ
	08/26/02	1.66	15.56	13.90	PZ
	05/28/02	1.42	15.56	14.14	PZ
	03/04/02	1.27	15.56	14.29	PZ
	11/26/01	1.72	15.56	13.84	PZ
	08/27/01	1.86	15.56	13.70	PZ
	05/08/01	1.35	15.56	14.21	PZ
1065PZ3B	06/09/08	9.75	23.65	13.90	PZ
	06/04/07	9.56	23.65	14.09	PZ
	02/26/07	9.35	23.65	14.30	PZ
	12/04/06	9.22	23.65	14.43	PZ
	08/14/06	9.05	23.65	14.60	PZ
	05/22/06	8.75	23.65	14.90	PZ
	03/06/06	8.75	23.65	14.90	PZ
	11/28/05	9.20	23.65	14.45	PZ
	08/29/05	8.65	23.65	15.00	PZ
	05/23/05	8.45	23.65	15.20	PZ
	03/14/05	8.80	23.65	14.85	PZ
	12/13/04	9.30	23.65	14.35	PZ
	08/09/04	9.65	23.65	14.00	PZ
	05/24/04	9.66	23.65	13.99	PZ
	03/08/04	10.09	23.65	13.56	PZ
	12/01/03	11.45	23.65	12.20	PZ
	08/11/03	11.93	23.65	11.72	PZ
	06/02/03	11.72	23.65	11.93	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ3B	03/10/03	10.24	23.65	13.41	PZ
	12/02/02	9.64	23.65	14.01	PZ
	11/05/02	9.75	23.65	13.90	PZ
	08/26/02	9.16	23.65	14.49	PZ
	05/28/02	9.07	23.65	14.58	PZ
	03/04/02	8.85	23.65	14.80	PZ
	11/26/01	9.27	23.65	14.38	PZ
	08/27/01	9.46	23.65	14.19	PZ
	05/08/01	8.29	23.65	15.36	PZ
1065PZ4B	06/09/08	2.71	14.45	11.74	PZ
	06/04/07	2.55	14.45	11.90	PZ
	02/26/07	2.45	14.45	12.00	PZ
	12/04/06	2.40	14.45	12.05	PZ
	08/14/06	2.58	14.45	11.87	PZ
	05/22/06	2.63	14.45	11.82	PZ
	03/06/06	2.11	14.45	12.34	PZ
	11/28/05	2.10	14.45	12.35	PZ
	08/29/05	1.81	14.45	12.64	PZ
	05/23/05	3.13	14.45	11.32	PZ
	03/14/05	2.35	14.45	12.10	PZ
	12/13/04	2.53	14.45	11.92	PZ
	08/09/04	2.67	14.45	11.78	PZ
	05/24/04	2.68	14.45	11.77	PZ
	03/08/04	3.93	14.45	10.52	PZ
	12/01/03	3.67	14.45	10.78	PZ
	08/11/03	4.10	14.45	10.35	PZ
	06/02/03	3.45	14.45	11.00	PZ
	03/10/03	2.68	14.45	11.77	PZ
	12/02/02	2.62	14.45	11.83	PZ
	11/05/02	4.32	14.45	10.13	PZ
	08/26/02	2.52	14.45	11.93	PZ
	05/28/02	2.30	14.45	12.15	PZ
	03/04/02	2.38	14.45	12.07	PZ
	11/26/01	2.30	14.45	12.15	PZ
	08/27/01	2.79	14.45	11.66	PZ
	05/08/01	2.33	14.45	12.12	PZ
1065PZ5B	06/09/08	3.03	17.34	14.31	PZ
	06/04/07	2.86	17.34	14.48	PZ
	02/26/07	2.57	17.34	14.77	PZ
	12/04/06	2.50	17.34	14.84	PZ
	08/14/06	2.19	17.34	15.15	PZ
	05/22/06	2.02	17.34	15.32	PZ
	03/06/06	2.00	17.34	15.34	PZ
	11/28/05	2.43	17.34	14.91	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ5B	08/29/05	1.90	17.34	15.44	PZ
	05/23/05	1.85	17.34	15.49	PZ
	03/14/05	2.18	17.34	15.16	PZ
	12/13/04	2.91	17.34	14.43	PZ
	08/09/04	3.19	17.34	14.15	PZ
	05/24/04	3.38	17.34	13.96	PZ
	03/08/04	3.70	17.34	13.64	PZ
	12/01/03	5.00	17.34	12.34	PZ
	08/11/03	6.56	17.34	10.78	PZ
	06/02/03	6.50	17.34	10.84	PZ
	03/10/03	4.79	17.34	12.55	PZ
	12/02/02	3.18	17.34	14.16	PZ
	11/05/02	3.64	17.34	13.70	PZ
	08/26/02	2.92	17.34	14.42	PZ
	05/28/02	2.63	17.34	14.71	PZ
	03/04/02	2.37	17.34	14.97	PZ
	11/26/01	2.82	17.34	14.52	PZ
	08/27/01	2.93	17.34	14.41	PZ
	05/08/01	2.50	17.34	14.84	PZ
1065PZ6B	06/09/08	11.35	26.36	15.01	PZ
	06/04/07	11.41	26.36	14.95	PZ
	02/26/07	11.00	26.36	15.36	PZ
	12/04/06	10.95	26.36	15.41	PZ
	08/14/06	NM	26.36	NM	PZ
	05/22/06	10.27	26.36	16.09	PZ
	03/06/06	NM	26.36	NM	PZ
	11/28/05	10.74	26.36	15.62	PZ
	08/29/05	10.23	26.36	16.13	PZ
	05/23/05	10.08	26.36	16.28	PZ
	03/14/05	10.14	26.36	16.22	PZ
	12/13/04	11.18	26.36	15.18	PZ
	08/09/04	11.55	26.36	14.81	PZ
	05/24/04	11.57	26.36	14.79	PZ
	03/08/04	12.23	26.36	14.13	PZ
	12/01/03	13.49	26.36	12.87	PZ
	08/11/03	14.73	26.36	11.63	PZ
	06/02/03	14.56	26.36	11.80	PZ
	03/10/03	12.73	26.36	13.63	PZ
	12/02/02	11.58	26.36	14.78	PZ
	11/05/02	11.85	26.36	14.51	PZ
	08/26/02	11.04	26.36	15.32	PZ
	05/28/02	10.94	26.36	15.42	PZ
	03/04/02	10.56	26.36	15.80	PZ
	11/26/01	11.09	26.36	15.27	PZ
	08/27/01	11.39	26.36	14.97	PZ
	05/08/01	10.62	26.36	15.74	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ7B	06/09/08	3.61	15.73	12.12	PZ
	06/04/07	3.10	15.73	12.63	PZ
	02/26/07	2.90	15.73	12.83	PZ
	12/04/06	2.81	15.73	12.92	PZ
	08/14/06	2.64	15.73	13.09	PZ
	05/22/06	2.24	15.73	13.49	PZ
	03/06/06	2.55	15.73	13.18	PZ
	11/28/05	2.79	15.73	12.94	PZ
	08/29/05	2.24	15.73	13.49	PZ
	05/23/05	1.89	15.73	13.84	PZ
	03/14/05	2.40	15.73	13.33	PZ
	12/13/04	2.71	15.73	13.02	PZ
	08/09/04	2.99	15.73	12.74	PZ
	05/24/04	2.92	15.73	12.81	PZ
	03/08/04	3.18	15.73	12.55	PZ
	12/01/03	4.10	15.73	11.63	PZ
	08/11/03	4.53	15.73	11.20	PZ
	06/02/03	4.14	15.73	11.59	PZ
	03/10/03	3.18	15.73	12.55	PZ
	12/02/02	2.91	15.73	12.82	PZ
	11/05/02	2.90	15.73	12.83	PZ
	08/26/02	2.44	15.73	13.29	PZ
	05/28/02	2.70	15.73	13.03	PZ
	03/04/02	2.33	15.73	13.40	PZ
	11/26/01	2.61	15.73	13.12	PZ
	08/27/01	2.67	15.73	13.06	PZ
	05/08/01	2.37	15.73	13.36	PZ
1065MW9B[2]	02/26/07	0.00	13.39	13.39 [4]	MW
	12/04/06	0.00	13.39	13.39 [4]	MW
	08/14/06	0.00	13.39	13.39 [4]	MW
	05/22/06	0.00	13.39	13.39 [4]	MW
	03/06/06	0.00	13.39	13.39 [4]	MW
	11/28/05	0.00	13.39	13.39 [4]	MW
	08/29/05	0.00	13.39	13.39 [4]	MW
	05/23/05	0.00	13.39	13.39 [4]	MW
	03/14/05	0.00	13.39	13.39 [4]	MW
	12/13/04	0.00	13.39	13.39 [4]	MW
	08/09/04	0.38	13.39	13.01	MW
	05/24/04	0.33	13.39	13.06	MW
	03/08/04	0.21	13.39	13.18	MW
	12/01/03	1.60	13.39	11.79	MW
	08/11/03	2.92	13.39	10.47	MW
	06/02/03	2.77	13.39	10.62	MW
	03/10/03	1.33	13.39	12.06	MW
	11/05/02	0.58	13.39	12.81	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065MW10B	06/09/08	3.80	17.40	13.60	MW
	06/04/07	3.70	17.40	13.70	MW
	02/26/07	3.37	17.40	14.03	MW
	12/04/06	3.37	17.40	14.03	MW
	08/14/06	3.57	17.40	13.83	MW
	05/22/06	3.79	17.40	13.61	MW
	03/06/06	3.55	17.40	13.85	MW
	11/28/05	3.04	17.40	14.36	MW
	08/29/05	3.13	17.40	14.27	MW
	05/23/05	3.60	17.40	13.80	MW
	03/14/05	5.35	17.40	12.05	MW
	12/13/04	3.88	17.40	13.52	MW
	08/09/04	4.30	17.40	13.10	MW
	05/24/04	4.47	17.40	12.93	MW
	03/08/04	4.60	17.40	12.80	MW
	12/01/03	5.38	17.40	12.02	MW
	08/11/03	8.16	17.40	9.24	MW
	06/02/03	6.90	17.40	10.50	MW
	03/10/03	4.73	17.40	12.67	MW
	11/05/02	4.06	17.40	13.34	MW
1065MW11B	06/09/08	9.21	23.43	14.22	MW
	06/04/07	9.12	23.43	14.31	MW
	02/26/07	8.72	23.43	14.71	MW
	12/04/06	8.53	23.43	14.90	MW
	08/14/06	8.50	23.43	14.93	MW
	05/22/06	8.37	23.43	15.06	MW
	03/06/06	8.10	23.43	15.33	MW
	11/28/05	8.40	23.43	15.03	MW
	08/29/05	8.08	23.43	15.35	MW
	05/23/05	7.95	23.43	15.48	MW
	03/14/05	8.30	23.43	15.13	MW
	12/13/04	8.82	23.43	14.61	MW
	08/09/04	9.20	23.43	14.23	MW
	05/24/04	9.30	23.43	14.13	MW
	03/08/04	9.09	23.43	14.34	MW
	12/01/03	11.18	23.43	12.25	MW
	08/11/03	12.04	23.43	11.39	MW
	06/02/03	11.85	23.43	11.58	MW
	03/10/03	10.18	23.43	13.25	MW
	11/05/02	9.47	23.43	13.96	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Piezometer / well abandoned on 30 May 2007.
3 - Value represents the bottom of casing elevation in feet PLLW.
4 - Groundwater level was at or above the top of casing. Value listed is top of casing elevation.
NM - Not measured
MW - Monitoring well
PZ - Piezometer
feet PLLW - feet above Presidio lower low water vertical datum

APPENDIX J3

MEMORANDUM - REVIEW OF GROUNDWATER MONITORING RESULTS, PRE-EXCAVATION MONITORING, BUILDING 1065 AREA, PRESIDIO OF SAN FRANCISCO, CALIFORNIA

MACTEC

DATE: September 25, 2007; Revised August 14, 2008
PREPARED BY: Mary Jo Heassler
REVIEWED BY: Warren Chamberlain
SUBJECT: Review of Groundwater Monitoring Results, Pre-Excavation Monitoring, Building 1065 Area, Presidio of San Francisco, California
PROJECT NUMBER: 4084075115 01.4

Memorandum
Review of Groundwater Monitoring Results
Pre-Excavation Monitoring Event - First and Second Quarter 2007
Building 1065 Area, Presidio of San Francisco

This memorandum presents a summary of groundwater monitoring data collected from piezometers and wells sampled during the First and Second Quarters of 2007 at the Building 1065 Area, Presidio of San Francisco, California (site). The wells and piezometers were sampled to monitor baseline groundwater conditions downgradient of soil and groundwater remedial units (RUs)-A at the site prior to implementing excavation of soil within RU-A as part of corrective actions identified in the *Corrective Action Implementation Work Plan, Building 1065 Area, Presidio of San Francisco, California* (IWP) (*MACTEC, 2007b*). In addition, this memorandum presents an assessment and comparison of chemical concentrations and field measurements between these most recent groundwater monitoring events, and historical groundwater monitoring data used to estimate the application rate of oxygen releasing product to excavations at RU-A. Oxygen releasing product will only be applied if residual hydrocarbons are present at concentrations above cleanup levels following completion of the corrective action soil excavation program.

Summary of Monitoring Parameter Assessment

Groundwater samples were collected in March 2007 from piezometers 1065PZ1A and 1065PZ1B and wells 1065MW101 and 1065MW102 as part of the Basewide Groundwater Monitoring Program, and in June 2007 from recently installed monitoring well 1065MW103A as part of the groundwater sampling program prescribed in the *Corrective Action Plan, Building 1065 Area, Presidio of San Francisco, California* (CAP) and IWP (*MACTEC, 2007a* and *b*). Except for 1065PZ1B, the wells and piezometers downgradient of RU-A are screened in the first water-bearing zone. Piezometer 1065PZ1B was installed in the intermediate groundwater zone.

In the First Quarter 2007, groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as diesel (d), TPH as gasoline (g), TPH as fuel oil (fo), volatile organic compounds (VOCs), aluminum, antimony, arsenic, cadmium, calcium, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, zinc, total dissolved solids (TDS), alkalinity, bicarbonate, chloride, fluoride, nitrate and nitrite as nitrogen (N), sulfate, and sulfide. In the Second Quarter 2007, groundwater samples from 1065MW103 were analyzed for TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertbutyl ether (MTBE), aluminum, arsenic, iron, manganese, nickel, TDS, alkalinity, bicarbonate, chloride, fluoride, nitrate and nitrite as N, sulfate, sulfide. Tables A-11-1 through A-11-4, provided by Treadwell and Rollo, Inc., summarize historical groundwater monitoring data for the site. It is noted that in June 2007, Piezometers 1065PZ1A and 1065PZ1B were abandoned as they were located in the footprint of a planned RU-A excavation.

The following discussion includes an evaluation of groundwater chemicals of concern (COCs) identified in the CAP specifically, TPHg, benzene, and arsenic. In addition, dissolved oxygen, ORP, manganese, and iron are

discussed as these parameters provide an indication of the groundwater reducing/oxidizing (redox) conditions. The redox condition of groundwater will affect the solubility of the arsenic and the ability of aerobic microbes to degrade petroleum hydrocarbons, whose presence may create localized reducing conditions in groundwater.

Comparison to Historical Monitoring Results

Comparison of historical analytical results for groundwater chemicals of concern (COCs) TPHg, benzene, and arsenic, to the most recent round of sampling from the monitored wells and piezometers (1065PZ1A, 1065PZ1B, 1065MW101, and 1065MW102 and recently installed monitoring well 1065MW103A) indicate the following:

- **TPHg** - Historical concentrations of TPHg have ranged from nondetect to 310 µg/L in groundwater samples collected from 1065PZ1A. TPHg has not been detected in samples collected from 1065MW101, 1065MW102, and 1065PZ1B and was not detected in samples collected from the recently installed well 1065MW103. Analytical results for First Quarter 2007 samples from 1065PZ1A (140 µg/L TPHg) show a decrease in the TPH concentrations from December 2006 (260 µg/L TPHg) but the detected value in March 2007 does not represent a historical low in 1065PZ1A (the historical low was in December 2004 when TPHg was not detected at a detection limit of 50 µg/L in 1065PZ1A).

- **Benzene** - Benzene has only been detected sporadically at estimated concentrations (below the reporting limit) in 1065PZ1A and 1065MW102. Benzene has not been detected in 1065MW101 and 1065PZ1B. The most recent sampling events show that benzene was detected at 0.07 µg/L (below the reporting limit) in 1065PZ1A and was not detected in the other wells and piezometers downgradient of RU-A.

- **Arsenic** - Review of historical data for 1065MW101, 1065MW102, and 1065PZ1A shows a decline in reported arsenic concentrations between August 2006 and March 2007. Arsenic concentrations detected in March 2007 in 1065PZ1A and 1065MW101 do not represent historical lows. The historically lowest detected concentration in 1065PZ1A (nondetect) and in 1065MW101 (21 µg/L) were reported in December 2004. Arsenic was not detected in 1065MW102 in March 2007 and also in November 2004; therefore, the March 2007 results are equivalent to the historic low. Arsenic was also not detected in the sample collected from newly installed monitoring well 1065MW103. Arsenic has not been detected in intermediate well 1065PZ1B.

Results for 1065MW103

Analytical results for newly installed monitoring well 1065MW103 shows that groundwater COCs were not detected in the sample collected in June 2007. In addition, groundwater monitoring parameters show higher concentrations of dissolved oxygen, manganese, and relatively lower concentrations of iron in Well 1065MW103 than were detected/measured in 1065PZ1A and 1065MW101. ORP values were positive for 1065MW103 and 1065MW102 and were negative for 1065PZ1A and 1065MW101. These monitoring parameters suggest that groundwater conditions in 1065MW103 may be more oxidizing than in 1065MW101 and 1065PZ1A. The slightly more oxidized state of groundwater at 1065MW103 and 1065MW102 relative to 1065PZ1A and 1065MW101 (as indicated by monitoring parameters) and nondetect results for TPHg and arsenic, suggest that these wells are located outside of the hydrocarbon plume. Studies performed by the Trust (*MACTEC, 2006*) have indicated that there are localized reducing conditions in groundwater, likely from the presence of petroleum hydrocarbons, that appear to control the increased solubility of arsenic in groundwater at the site.

Summary and Conclusions

In summary, First and Second Quarter 2007 groundwater monitoring data from wells and piezometers downgradient of RU-A show relatively lower chemical concentrations than have been detected in the last three quarters of groundwater monitoring. However, these detected concentrations do not represent historical lows. Analytical results for the newly installed well 1065MW103 show that groundwater COCs: TPHg, benzene, and arsenic were not detected. Accordingly, First and Second Quarter 2007 monitoring results do not suggest the need to re-evaluate the recommended rates for application of oxygen releasing compound estimated in the IWP

(*MACTEC, 2007b*) because concentrations of COCs are similar to those considered when developing recommendations for oxygen releasing product application rates in the IWP.

References Cited:

MACTEC, 2006. *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, California*. June

MACTEC, 2007a. *Final Corrective Action Plan, Building 1065 Area, Presidio of San Francisco, California*. January.

MACTEC, 2007b. *Corrective Action Implementation Work Plan, Building 1065 Area, Presidio of San Francisco, California*. September.

Attachments:

Tables A-11-1 through A-11-4 (provided by Treadwell & Rollo, Inc.)
Charts

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ1A (shallow)	03/01/07	0.71	-96.00	6.96	12.48
	12/05/06	0.75	-82	7.02	15.29
	08/17/06	0.32	-106.40	6.87	20.27
	05/24/06	0.38	-124.1	7	17.68
	03/14/06	1.23	3.5	6.88	12.67
	12/01/05	0.7	NR	NR	NR
	08/31/05	0.5	NR	NR	NR
	06/02/05	0.29	NR	NR	NR
	03/29/05	0.4	NR	NR	NR
	12/17/04	0.9	NR	NR	NR
	08/11/04	0.1	NR	NR	NR
	05/26/04	0.2	NR	NR	NR
	03/19/04	0.2	NR	NR	NR
	12/05/03	0.3	NR	NR	NR
	08/19/03	0.14	NR	NR	NR
	06/11/03	0.5	NR	NR	NR
	03/17/03	0.09	NR	NR	NR
	12/06/02	0.13	NR	NR	NR
	09/05/02	0.79	NR	NR	NR
	05/30/02	1.1	NR	NR	NR
	03/07/02	0.53	NR	NR	NR
	11/29/01	0.17	NR	NR	NR
	09/06/01	0.28	NR	NR	NR
	05/11/01	0.36	NR	NR	NR
	05/27/99	6.83 (J25)	NR	NR	NR
	03/08/99	0.56	NR	NR	NR
	11/30/98	2.98	NR	NR	NR
	08/26/98	1.75	NR	NR	NR
	06/10/98	1.31	NR	NR	NR
	03/16/98	2.99	NR	NR	NR
	12/18/97	0.61	NR	NR	NR
	09/17/97	0.87	NR	NR	NR
1065PZ1B (intermediate)	03/07/07	0.36	-39	7.53	15.80
	12/05/06	1.21	211	6.82	14.8
	08/15/06	1.97	-33	6.90	17.20
	05/24/06	2.7	2.2	7.68	18.13
	03/07/06	0.05	-0.2	7.7	16.9
	11/29/05	0.91	NR	NR	NR
	08/30/05	0.7	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/05/05	0.9	NR	NR	NR
	12/17/04	0.7	NR	NR	NR
	08/13/04	0.8	NR	NR	NR
	05/27/04	0.56	NR	NR	NR
	03/10/04	1	NR	NR	NR
	12/03/03	0.9	NR	NR	NR
	08/13/03	1	NR	NR	NR
	06/03/03	1	NR	NR	NR
	03/17/03	0.2	NR	NR	NR
	12/09/02	0.7	NR	NR	NR
	09/03/02	0.7	NR	NR	NR
	06/03/02	1.1	NR	NR	NR
	03/13/02	0.8	NR	NR	NR
	12/03/01	4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ1B (intermediate)	09/05/01	0.6	NR	NR	NR
	05/16/01	3.22	NR	NR	NR
	05/27/99	0.59	NR	NR	NR
	03/08/99	0.19	NR	NR	NR
	11/30/98	0.21	NR	NR	NR
	08/26/98	0.16	NR	NR	NR
	06/10/98	0.14	NR	NR	NR
	03/16/98	0.51	NR	NR	NR
	12/18/97	0.29	NR	NR	NR
	09/17/97	0.6	NR	NR	NR
1065PZ2A (shallow)	03/01/07	0.43	-75.4	6.52	14.66
	12/06/06	0.52	-123.7	6.91	16.65
	08/17/06	0.24	-108.8	6.81	23.28
	05/24/06	0.14	-116.8	7.12	19.66
	03/13/06	0.43	-104.1	7.02	15.75
	12/01/05	0.4	NR	NR	NR
	08/30/05	0.3	NR	NR	NR
	05/24/05	0.2	NR	NR	NR
	04/01/05	0.2	NR	NR	NR
	12/15/04	0.2	NR	NR	NR
	08/11/04	0.1	NR	NR	NR
	05/25/04	0.1	NR	NR	NR
	03/15/04	0.2	NR	NR	NR
	12/05/03	0.15	NR	NR	NR
	08/19/03	0.2	NR	NR	NR
	06/04/03	0.2	NR	NR	NR
	03/17/03	0.06	NR	NR	NR
	12/05/02	0.1	NR	NR	NR
	09/05/02	0.52	NR	NR	NR
	05/29/02	1.1	NR	NR	NR
	03/07/02	0.11	NR	NR	NR
	11/29/01	0.18	NR	NR	NR
	09/05/01	0.38	NR	NR	NR
	05/11/01	0.25	NR	NR	NR
	05/25/99	6.78 (J25)	NR	NR	NR
	03/03/99	0.79	NR	NR	NR
	11/24/98	1.02 (J25)	NR	NR	NR
	08/25/98	0.34	NR	NR	NR
	06/09/98	0.39	NR	NR	NR
	03/12/98	1.02	NR	NR	NR
	12/17/97	0.47	NR	NR	NR
	09/16/97	1	NR	NR	NR
1065PZ2B (intermediate)	3/6/2007	0.53	206.00	7.06	17.80
	03/07/06	0.12	-0.9	7.25	17.9
	04/05/05	0.9	NR	NR	NR
	03/10/04	0.23	NR	NR	NR
	12/03/03	1	NR	NR	NR
	08/13/03	0.9	NR	NR	NR
	06/06/03	0.97	NR	NR	NR
	03/17/03	0.4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ2B (intermediate)	12/09/02	0.8	NR	NR	NR
	09/04/02	0.8	NR	NR	NR
	06/03/02	1.1	NR	NR	NR
	03/13/02	0.6	NR	NR	NR
	12/04/01	1.5	NR	NR	NR
	09/05/01	0.7	NR	NR	NR
	05/16/01	5.82	NR	NR	NR
	05/25/99	1.87	NR	NR	NR
	03/03/99	0.77	NR	NR	NR
	11/24/98	0.61	NR	NR	NR
	08/25/98	0.53	NR	NR	NR
	06/09/98	0.53	NR	NR	NR
	03/12/98	0.59	NR	NR	NR
	12/17/97	0.71	NR	NR	NR
	09/16/97	0.31	NR	NR	NR
1065PZ3A (shallow)	03/01/07	1.19	189.10	6.69	11.83
	03/13/06	1.77	223.1	6.87	14.93
	04/05/05	3.4	NR	NR	NR
	03/15/04	3.8	NR	NR	NR
	12/08/03	NM	NR	NR	NR
	08/19/03	NM	NR	NR	NR
	06/02/03	NM	NR	NR	NR
	03/14/03	NM	NR	NR	NR
	12/05/02	3.7	NR	NR	NR
	09/05/02	3.5	NR	NR	NR
	05/29/02	2.5	NR	NR	NR
	03/07/02	2.75	NR	NR	NR
	11/29/01	3.44	NR	NR	NR
	09/05/01	8.56	NR	NR	NR
	05/11/01	1.62	NR	NR	NR
	05/24/99	8.59	NR	NR	NR
	03/01/99	7.59	NR	NR	NR
	11/23/98	NM	NR	NR	NR
	08/24/98	7.52	NR	NR	NR
	06/08/98	5.6	NR	NR	NR
	03/11/98	4.69	NR	NR	NR
	12/16/97	5.03	NR	NR	NR
1065PZ3B (intermediate)	02/28/07	0.71	211.00	6.70	13.10
	03/09/06	0.72	286.2	7.21	16.9
	04/06/05	2.2	NR	NR	NR
	03/10/04	0.69	NR	NR	NR
	12/03/03	1	NR	NR	NR
	08/14/03	1.1	NR	NR	NR
	06/03/03	3.3	NR	NR	NR
	03/18/03	2.6	NR	NR	NR
	12/10/02	2.9	NR	NR	NR
	09/03/02	1	NR	NR	NR
	06/04/02	3.7	NR	NR	NR
	03/13/02	0.8	NR	NR	NR
	12/04/01	5	NR	NR	NR
	09/05/01	4	NR	NR	NR
	05/17/01	7.33	NR	NR	NR
	05/24/99	2.4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ3B (intermediate)	03/01/99	2.09	NR	NR	NR
	11/23/98	1.96	NR	NR	NR
	08/24/98	2.51	NR	NR	NR
	06/08/98	2.31	NR	NR	NR
	03/11/98	2.7	NR	NR	NR
	12/16/97	3.02	NR	NR	NR
	09/15/97	3.09	NR	NR	NR
1065PZ4A (shallow)	03/01/07	0.53	-114.1	6.52	15.49
	12/06/06	0.7	-134.7	6.79	19.17
	08/17/06	6.53	-116.6	6.70	21.00
	05/24/06	0.74	-125.9	6.85	19.04
	03/09/06	0.51	-112.8	5.19	16.59
	11/29/05	0.3	NR	NR	NR
	08/30/05	0.2	NR	NR	NR
	06/02/05	0.28	NR	NR	NR
	04/01/05	0.1	NR	NR	NR
	03/15/04	0.3	NR	NR	NR
	12/05/03	0.2	NR	NR	NR
	08/19/03	0.12	NR	NR	NR
	06/11/03	0.35	NR	NR	NR
	03/14/03	0.09	NR	NR	NR
	12/05/02	0.15	NR	NR	NR
	09/05/02	0.31	NR	NR	NR
	06/04/02	0.25	NR	NR	NR
	03/07/02	2.53	NR	NR	NR
	11/29/01	0.11	NR	NR	NR
	09/05/01	0.36	NR	NR	NR
	05/11/01	0.27	NR	NR	NR
	05/27/99	0.62	NR	NR	NR
	03/08/99	0.17	NR	NR	NR
	12/01/98	0.21	NR	NR	NR
	08/27/98	0.17	NR	NR	NR
	06/11/98	1.99 (J25)	NR	NR	NR
	03/17/98	0.63	NR	NR	NR
	12/22/97	0.31	NR	NR	NR
	09/18/97	0.39	NR	NR	NR
1065PZ4B (intermediate)	03/01/07	0.64	127.00	6.80	14.60
	03/13/06	1.79	146	6.9	16.3
	04/05/05	3.2	NR	NR	NR
	12/17/04	NM	NR	NR	NR
	03/17/04	0.33	NR	NR	NR
	12/05/03	1.6	NR	NR	NR
	08/14/03	1.2	NR	NR	NR
	06/06/03	1.7	NR	NR	NR
	03/17/03	1.3	NR	NR	NR
	12/09/02	2.5	NR	NR	NR
	09/04/02	1.7	NR	NR	NR
	06/04/02	2.2	NR	NR	NR
	03/13/02	2.8	NR	NR	NR
	12/04/01	4	NR	NR	NR
	09/05/01	0.96	NR	NR	NR
	05/09/01	2.1	NR	NR	NR
	05/27/99	1.47	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ4B (intermediate)	03/08/99	1.22	NR	NR	NR
	12/01/98	1.17	NR	NR	NR
	08/27/98	1.9	NR	NR	NR
	06/11/98	2.13	NR	NR	NR
	03/17/98	1.2	NR	NR	NR
	12/22/97	1.22	NR	NR	NR
	09/18/97	1.5	NR	NR	NR
1065PZ5AR (shallow)	03/01/07	0.82	118.00	6.90	13.4
	12/07/06	3.66	-128.1	6.64	15.6
	08/16/06	0.42	-176.50	NA	21.9
	05/24/06	4.21	-88.3 NM	7.11	15.5
	03/07/06	0.41	12	7.13	12.9
	11/29/05	0.72	NR	NR	NR
	08/30/05	0.8	NR	NR	NR
	05/24/05	0.5	NR	NR	NR
	04/11/05	0.1	NR	NR	NR
	03/10/04	0.11	NR	NR	NR
	12/08/03	1	NR	NR	NR
	08/14/03	1	NR	NR	NR
	06/09/03	NM	NR	NR	NR
	03/17/03	0.2	NR	NR	NR
1065PZ5B (intermediate)	03/01/07	0.28	136.00	7.10	13.70
	03/13/06	3.98	122	7	14.4
	04/11/05	3	NR	NR	NR
	03/10/04	0.21	NR	NR	NR
	12/08/03	1.5	NR	NR	NR
	08/14/03	1.2	NR	NR	NR
	06/04/03	2	NR	NR	NR
	03/17/03	1.8	NR	NR	NR
	12/10/02	2.3	NR	NR	NR
	09/03/02	1	NR	NR	NR
	06/04/02	3	NR	NR	NR
	03/13/02	3.2	NR	NR	NR
	12/03/01	3.8	NR	NR	NR
	09/05/01	1.4	NR	NR	NR
	05/16/01	4.35	NR	NR	NR
	05/25/99	2.51	NR	NR	NR
	03/03/99	2.46	NR	NR	NR
	11/24/98	2.62	NR	NR	NR
	08/25/98	3.46	NR	NR	NR
	06/09/98	2.65	NR	NR	NR
	03/12/98	2.22	NR	NR	NR
	12/17/97	2.59	NR	NR	NR
	09/16/97	2.1	NR	NR	NR
1065PZ6A (shallow)	04/06/05	2.3	NR	NR	NR
	03/17/04	0.32	NR	NR	NR
	12/08/03	0.2	NR	NR	NR
	08/14/03	1.3	NR	NR	NR
	06/10/03	4.2	NR	NR	NR
	03/17/03	3.8	NR	NR	NR
	12/10/02	4.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	5.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ6A (shallow)	03/13/02	3.8	NR	NR	NR
	12/04/01	3.8	NR	NR	NR
	09/05/01	1.49	NR	NR	NR
	05/17/01	5.61	NR	NR	NR
	05/24/99	5.36	NR	NR	NR
	03/01/99	5.35	NR	NR	NR
	11/23/98	4.63	NR	NR	NR
	08/24/98	5.09	NR	NR	NR
	06/08/98	4.28	NR	NR	NR
	03/11/98	5.17	NR	NR	NR
	12/16/97	4.44	NR	NR	NR
	09/15/97	3.51	NR	NR	NR
1065PZ6B (intermediate)	03/07/07	0.29	123.00	6.70	16.30
	03/10/06	1.27	137.1	6.69	17.9
	04/05/05	1.1	NR	NR	NR
	03/09/04	0.91	NR	NR	NR
	12/03/03	1.1	NR	NR	NR
	08/13/03	1.1	NR	NR	NR
	06/03/03	0.9	NR	NR	NR
	03/17/03	1.6	NR	NR	NR
	12/09/02	2.8	NR	NR	NR
	09/03/02	1.1	NR	NR	NR
	06/04/02	3.5	NR	NR	NR
	03/13/02	0.9	NR	NR	NR
	12/04/01	2	NR	NR	NR
	09/05/01	1.8	NR	NR	NR
	05/11/01	6.8	NR	NR	NR
	05/24/99	3.09	NR	NR	NR
	03/01/99	2.67	NR	NR	NR
	11/23/98	2.8	NR	NR	NR
	08/24/98	2.9	NR	NR	NR
	06/08/98	2.77	NR	NR	NR
	03/11/98	2.87	NR	NR	NR
	12/16/97	2.57	NR	NR	NR
	09/15/97	2.21	NR	NR	NR
1065PZ7A (shallow)	02/27/07	0.91	192.00	7.10	12.40
	03/15/06	4.47	270	6.29	14.8
	04/06/05	1.1	NR	NR	NR
	03/17/04	0.1	NR	NR	NR
	12/08/03	2.2	NR	NR	NR
	08/13/03	0.8	NR	NR	NR
	06/10/03	0.5	NR	NR	NR
	03/17/03	0.1	NR	NR	NR
	12/09/02	1.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	1.3	NR	NR	NR
	03/13/02	1.5	NR	NR	NR
	12/03/01	0.7	NR	NR	NR
	09/05/01	1.71	NR	NR	NR
	05/09/01	2.5	NR	NR	NR
	05/27/99	5.58 (J25)	NR	NR	NR
	03/08/99	2.27	NR	NR	NR
	12/01/98	2.21	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ7A (shallow)	08/26/98	1.61	NR	NR	NR
	06/10/98	0.99	NR	NR	NR
	03/16/98	2.89	NR	NR	NR
	12/18/97	1.5	NR	NR	NR
	09/17/97	1.22	NR	NR	NR
1065PZ7B (intermediate)	03/01/07	1.03	131.00	6.80	14.40
	03/15/06	0.9	180.3	6.98	14.5
	04/06/05	1.3	NR	NR	NR
	03/17/04	2.2	NR	NR	NR
	12/08/03	3.2	NR	NR	NR
	08/13/03	0.5	NR	NR	NR
	06/10/03	2.8	NR	NR	NR
	03/17/03	2	NR	NR	NR
	12/09/02	5.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	2.7	NR	NR	NR
	03/13/02	2.4	NR	NR	NR
	12/03/01	0.8	NR	NR	NR
	09/05/01	1.91	NR	NR	NR
	05/09/01	4.5	NR	NR	NR
	05/27/99	3.66	NR	NR	NR
	03/08/99	3	NR	NR	NR
	12/01/98	3.65	NR	NR	NR
	08/26/98	3.11	NR	NR	NR
	06/10/98	2.45	NR	NR	NR
	03/16/98	3.91	NR	NR	NR
	12/18/97	2.31	NR	NR	NR
	09/17/97	2.14	NR	NR	NR
1065TMW03 (shallow)	06/02/03	NM	NR	NR	NR
	03/14/03	NM	NR	NR	NR
	12/09/02	NM	NR	NR	NR
	09/06/02	NM	NR	NR	NR
	06/06/02	NM	NR	NR	NR
	03/11/02	NM	NR	NR	NR
	11/29/01	NM	NR	NR	NR
	09/06/01	NM	NR	NR	NR
	05/18/01	6.47	NR	NR	NR
	05/27/99	3.66	NR	NR	NR
	03/08/99	3	NR	NR	NR
	12/01/98	3.65	NR	NR	NR
	08/26/98	3.11	NR	NR	NR
	06/10/98	2.45	NR	NR	NR
	03/16/98	3.91	NR	NR	NR
	12/18/97	2.31	NR	NR	NR
	09/17/97	2.14	NR	NR	NR
1065MW9A (shallow)	03/07/07	0.52	-65.0	6.70	15.70
	12/05/06	0.93	177.3	6.9	19.1
	08/16/06	1.74	-103	6.66	19.90
	05/24/06	2.13	-112	6.81	18.2
	03/09/06	0.59	121.3	6.9	15.5
	11/30/05	0.77	NR	NR	NR
	08/31/05	0.7	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/06/05	1.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065MW9A (shallow)	12/17/04	0.85	NR	NR	NR
	08/11/04	0.3	NR	NR	NR
	05/27/04	0.5	NR	NR	NR
	03/10/04	0.39	NR	NR	NR
	12/08/03	1.6	NR	NR	NR
	08/14/03	0.9	NR	NR	NR
	06/09/03	3.1	NR	NR	NR
	03/18/03	1.4	NR	NR	NR
1065MW9B (intermediate)	03/07/07	0.21	12.00	7.02	17.80
	12/07/06	3.8	191	6.6	15.5
	08/16/06	1.82	197.40	6.89	17.70
	05/25/06	0.36	57.7	6.8	17.3
	03/09/06	0.61	200.1	7.51	15.5
	11/29/05	0.9	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/06/05	2.1	NR	NR	NR
	12/17/04	0.6	NR	NR	NR
	08/11/04	1.6	NR	NR	NR
	05/27/04	0.76	NR	NR	NR
	03/10/04	0.37	NR	NR	NR
	12/08/03	3	NR	NR	NR
	08/13/03	0.9	NR	NR	NR
	06/09/03	2.1	NR	NR	NR
	03/18/03	1.4	NR	NR	NR
1065MW10A (shallow)	03/07/07	0.60	-109.00	6.80	13.60
	03/16/06	0.5	-120.3	6.65	14.8
	04/11/05	0.8	NR	NR	NR
	03/10/04	0.24	NR	NR	NR
	12/08/03	0.8	NR	NR	NR
	08/14/03	0.8	NR	NR	NR
	06/06/03	0.6	NR	NR	NR
	03/18/03	1.2	NR	NR	NR
1065MW10B (intermediate)	03/07/07	4.80	19.00	6.80	16.70
	03/09/06	NM	NM	7.06	15.3
	04/11/05	2.6	NR	NR	NR
	03/10/04	1.7	NR	NR	NR
	12/03/03	2.6	NR	NR	NR
	08/13/03	1	NR	NR	NR
	06/03/03	0.9	NR	NR	NR
	03/18/03	1.9	NR	NR	NR
1065MW11A (shallow)	03/07/07	0.32	97.00	6.94	16.40
	03/09/06	0.52	112.1	7.69	14.3
	04/11/05	1.2	NR	NR	NR
	03/17/04	0.92	NR	NR	NR
	12/08/03	5.8	NR	NR	NR
	08/14/03	0.8	NR	NR	NR
	06/06/03	7.7	NR	NR	NR
	03/18/03	0.4	NR	NR	NR
1065MW11B (intermediate)	03/07/07	0.27	75.00	6.80	17.30
	03/07/06	NM	NM	7	12.9
	04/11/05	2.2	NR	NR	NR
	03/09/04	1.91	NR	NR	NR
	12/04/03	2.91	NR	NR	NR
	08/13/03	1.2	NR	NR	NR
	06/03/03	1.2	NR	NR	NR
	03/18/03	1.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065MW101 (shallow)	03/01/07	0.48	-85.10	6.50	13.66
	12/06/06	1.1	-97.1	6.79	15.76
	08/16/06	0.47	-97.40	6.71	22.00
	05/24/06	0.22	-101.4	6.87	18.98
	03/13/06	0.82	-95.5	6.88	14.46
	11/29/05	0.8	NR	NR	NR
	08/31/05	0.7	NR	NR	NR
	05/26/05	0.3	NR	NR	NR
	03/29/05	0.2	NR	NR	NR
	12/17/04	0.3	NR	NR	NR
	08/13/04	0.2	NR	NR	NR
1065MW102 (shallow)	03/01/07	3.57	14.80	6.46	12.29
	12/06/06	1.01	-100.8	7.06	14.09
	08/16/06	0.66	-88.50	6.77	20.77
	05/24/06	0.25	-40.6	6.73	17.89
	03/14/06	4.87	91.1	6.72	11.69
	11/29/05	0.6	NR	NR	NR
	08/30/05	0.2	NR	NR	NR
	05/24/05	1.3	NR	NR	NR
	03/29/05	1	NR	NR	NR
	12/15/04	0.2	NR	NR	NR
	08/11/04	0.2	NR	NR	NR
1065MW103A (shallow)	06/07/07	1.48	204	6.8	18.4
1047MW101 (shallow)	03/01/07	0.21	171.00	6.10	13.00
	12/07/06	NM	NM	6.3	14.1
	08/16/06	3.81	204.10	6.93	18.10
	05/25/06	1.21	137.1	6.94	15.9
	03/07/06	1	181.7	7.5	13.8
	11/30/05	0.7	NR	NR	NR
	08/30/05	0.9	NR	NR	NR
	05/26/05	0.6	NR	NR	NR
	04/06/05	1.1	NR	NR	NR
	12/16/04	0.7	NR	NR	NR
	08/13/04	2.8	NR	NR	NR
	05/27/04	0.91	NR	NR	NR
	03/11/04	3.39	NR	NR	NR
	12/10/03	1.5	NR	NR	NR

Notes
mg/L - milligrams per liter
NM - Not measured
NR - Not reported
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ1A (shallow)	03/01/07	550	550	57	0.2	0.71	< 0.05	7.7	< 0.04 UJ
	12/05/06	590	590	71	0.23	< 0.05	< 0.05	< 0.5	< 0.04
	08/17/06	560	560	72	0.22	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	05/24/06	590	590	75	0.2	< 0.05	< 0.05	0.88	< 0.04 R
	03/14/06	500	500	64	0.19	0.76	< 0.05	14	< 0.04
	12/01/05	590	590	75	0.24	< 0.05	< 0.05	0.58	< 0.04
	08/31/05	580	580	63	0.24	< 0.05	< 0.05	< 0.5	< 0.04
	06/02/05	580	580	63	0.27	< 0.05	< 0.05	4.7	< 0.04
	03/29/05	480	480	42	0.19	0.37	< 0.05	32	< 0.04
	03/08/99	551	551	64.4	NA	1.7	NA	15	NA
	11/30/98	602	602	89	NA	0.46	NA	< 0.5	NA
	08/26/98	550	550	63	NA	< 0.4	NA	< 5	NA
	06/10/98	572	572	56.4	NA	0.995	NA	9.18	NA
	03/16/98	518	518	48.6	NA	2.84	NA	27.9	NA
	12/18/97	588	588	79.3	NA	0.013	NA	1.08	NA
	09/17/97	272	272	18.4 D	NA	0.678	NA	38.6	NA
1065PZ1B (intermediate)	03/07/07	420	420	170	< 0.1	< 0.05	< 0.05	62	0.04
	12/05/06	360	360	160	< 0.1	0.22	< 0.05	72	< 0.04
DUP1205061A	12/05/06	340	340	160	< 0.1	0.22	< 0.05	70	< 0.04
1065PZ1BCL	12/05/06	335	335	174	< 1 U	0.27	< 0.1 U	82.2	< 0.05
	08/15/06	440	440	180	< 0.1	< 0.05	< 0.05	60	0.05
	05/24/06	230	230	98	< 0.1	0.42	< 0.05	43	< 0.04 R
	03/07/06	390	390	180	< 0.1	< 0.05	< 0.05	55	0.06
	11/29/05	350 J+	350	160	< 0.1	0.24	< 0.05	62	< 0.04
	08/30/05	310	310	120	< 0.1 UJ	0.26	< 0.05 UJ	75	< 0.04
	05/24/05	350	350	170	< 0.1	< 0.05	< 0.05	55	0.05
DUP0524052A	05/24/05	370	370	170	< 0.1	0.05	< 0.05	57	< 0.04
	04/05/05	380	380	170	< 0.1	0.09	< 0.05	57	< 0.04
	03/08/99	391	391	65	NA	< 0.08	NA	67	NA
	11/30/98	389	389	87.7	NA	0.12	NA	82	NA
	08/26/98	390	390	58	NA	< 0.5	NA	66	NA
	08/26/98	390	390	58	NA	< 0.5	NA	66	NA
	06/10/98	406	406	59	NA	0.051	NA	62.7	NA
	03/16/98	384	384	57.8 D	NA	0.02	NA	63.8 D	NA
	12/18/97	393	393	65.9 D	NA	< 0.01	NA	71.4 D	NA
	09/17/97	372	372	61.7 D	NA	0.09	NA	72 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ2A (shallow)	03/01/07	220	220	30	0.27	1.2	< 0.05	39	< 0.04 UJ
	12/06/06	340	340	57	0.26	< 0.05	< 0.05	2.4	< 0.04 UJ
	08/17/06	300	300	50	0.29	< 0.05	< 0.05	1.4	< 0.04 UJ
	05/24/06	340	340	59	0.26	< 0.05	< 0.05	5.5	< 0.04 R
	03/13/06	270	270	90	0.29	< 0.05 UJ	< 0.05 UJ	18	< 0.04 UJ
	12/01/05	340	340	37	0.28	< 0.05	< 0.05	2.9	< 0.04
	08/30/05	350	350	37	0.28 J-	< 0.05	< 0.05 UJ	< 0.5	< 0.04
	05/24/05	330	330	39	0.24	< 0.05	< 0.05	< 0.5	< 0.04
	04/01/05	300	300	30	0.28	0.13	< 0.05	33	< 0.04
DUP0401052A	04/01/05	290	290	30	0.32	0.16	< 0.05	35	< 0.04
	03/03/99	353	353	63.7	NA	< 0.04	NA	12	NA
	11/24/98	368	368	99.7	NA	1.1	NA	26	NA
	08/25/98	350	350	57	NA	< 1	NA	< 13	NA
	08/25/98	NA	350	NA	NA	NA	NA	NA	NA
	06/09/98	383	383	62.9	NA	0.074	NA	2.22	NA
	03/12/98	358	358	67.3 D	NA	0.012	NA	1.67	NA
	12/17/97	385	385	81.8 D	NA	0.01	NA	1.84	NA
	09/16/97	358	358	77.2 D	NA	< 0.01	NA	4.34	NA
1065PZ2B (intermediate)	03/06/07	200	200	38	< 0.1	2.8	0.08	58	< 0.04
	03/07/06	200	200	36	< 0.1	2.8	< 0.05	55	< 0.04
	04/05/05	180	180	35	< 0.1	2.6	0.06	50	< 0.04
	03/03/99	NA	156	51.5	NA	5.2	NA	52	NA
	11/24/98	NA	162	60.6	NA	5.1	NA	58	NA
	08/25/98	NA	150	38	NA	3.9	NA	43	NA
	06/09/98	NA	156	43.5	NA	4.56	NA	48.5	NA
	03/12/98	NA	162	54 D	NA	4.57 D	NA	51.2 D	NA
	12/17/97	NA	165	58.4 D	NA	4.82	NA	61.8 D	NA
	09/16/97	NA	160	57.5 D	NA	4.46 D	NA	61.1 D	NA
1065PZ3A (shallow)	03/01/07	300	300	50	0.16	0.31	< 0.05	33	< 0.04 UJ
	03/13/06	280	280	32	0.28	0.17 J-	< 0.05 UJ	20	< 0.04 UJ
	04/05/05	430	430	71	0.26	1	< 0.05	78	< 0.04
DUP0405052A	04/05/05	420	420	71	0.27	1	< 0.05	78	< 0.04
1065PZ3ACL	04/05/05	435	435	73	0.39	1.03	< 0.02 U	79	< 0.04 U
	03/01/99	NA	245	35	NA	1	NA	32	NA
	11/23/98	NA	245	36	NA	3.2	NA	38	NA
	08/24/98	NA	240	15	NA	1	NA	19	NA
	06/08/98	NA	280	9.19 D	NA	1.42	NA	14.3	NA
	03/11/98	NA	370	34.2 D	NA	1.1 D	NA	26.4 D	NA
	12/16/97	NA	563	41.9 D	NA	2.06	NA	43.2 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ3B (intermediate) DUP0228072A	02/28/07	300	300	57	< 0.1	2	< 0.05	68	< 0.04
	02/28/07	290	290	58	< 0.1	2	< 0.05	68	< 0.04
	03/09/06	250	250	67	< 0.1	2.4	< 0.05	83	< 0.04 UJ
	04/06/05	270	270	69	< 0.1	2.1	< 0.05	83	< 0.04 UJ
	03/01/99	NA	263	111	NA	3.7	NA	100	NA
	11/23/98	NA	261	41	NA	1.3	NA	36	NA
	08/24/98	NA	260	82	NA	3.1	NA	78	NA
	06/08/98	NA	250	93.6 D	NA	3.82 D	NA	89.5 D	NA
	03/11/98	NA	238	91.8 D	NA	3.54 D	NA	76.2 D	NA
	12/16/97	NA	475	95.3 D	NA	4.02	NA	85.2 D	NA
	09/15/97	NA	226	70 D	NA	3.68 D	NA	64.4 D	NA
1065PZ4A (shallow)	03/01/07	680	680	68	0.14	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	12/06/06	680	680	65	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	08/17/06	440	440	67	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	05/24/06	580	580	68	0.16	< 0.05	< 0.05	4.7	< 0.04 R
	03/09/06	640	640	65	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	11/29/05	570 J+	570	61	0.12	< 0.05	< 0.05	< 0.5	< 0.04
	08/30/05	550	550	62	0.12 J-	< 0.05	< 0.05 UJ	< 0.5	< 0.04
	06/02/05	530	530	57	< 2.5	< 1.3	< 1.3	< 13	< 0.04
	04/01/05	500	500	62	0.13	< 0.05	< 0.05	< 0.5	< 0.04
	03/08/99	NA	364	58.7	NA	< 0.04	NA	34	NA
	12/01/98	NA	456	76.9	NA	< 0.04	NA	18	NA
	08/27/98	NA	410	52	NA	< 0.5	NA	33	NA
	06/11/98	NA	380	52.3	NA	< 0.05	NA	38.9	NA
	03/17/98	NA	368	54.9 D	NA	0.01	NA	39.3 D	NA
	12/22/97	NA	475	66.7 D	NA	0.015	NA	25.8 D	NA
	09/18/97	NA	517	72.7 D	NA	0.034	NA	31.7 D	NA
1065PZ4B (intermediate)	03/01/07	300	300	56	< 0.1	4	< 0.05	64	< 0.04 UJ
	03/13/06	280	280	50	< 0.1	4	< 0.05	60	< 0.04 UJ
	04/05/05	270	270	50	< 0.1	4.7	< 0.05	59	< 0.04
	03/08/99	NA	225	55.7	NA	4.2	NA	64	NA
	12/01/98	NA	225	68.2	NA	5.1	NA	71	NA
	08/27/98	NA	210	46	NA	4.3	NA	58	NA
	06/11/98	NA	224	49.2	NA	4.51	NA	59.9	NA
	03/17/98	NA	222	49.5 D	NA	4.56 D	NA	60.2 D	NA
	12/22/97	NA	225	55 D	NA	5.04 D	NA	71.7 D	NA
	09/18/97	NA	216	53.4 D	NA	4.6 D	NA	64.2 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ5AR (shallow)	03/01/07	790	790	65	0.22	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	12/07/06	720	720	66	0.23	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	08/16/06	730	730	66	0.26	< 0.05	< 0.05	< 0.5	< 0.04
	05/24/06	700	700	64	0.25	< 0.05	< 0.05	0.6	< 0.04 R
	03/07/06	780	780	68	0.2	< 0.05	< 0.05	< 0.5	< 0.04
DUP0307062B	03/07/06	780	780	68	0.2	< 0.05	< 0.05	< 0.5	< 0.04
1065PZ5ARCL	03/07/06	776	776	71.1	< 1 U	< 0.02 U	< 0.02 U	0.5	< 0.05 U UJ
	11/29/05	780 J+	780	68	0.25	< 0.05	< 0.05	< 0.5	< 0.04
	08/30/05	780	780	70	0.27 J-	0.33	0.07 J-	0.67	< 0.04
	05/24/05	670	670	63	0.23	< 0.05	< 0.05	5.3	< 0.04
	04/11/05	790	790	76	0.27	< 0.05	< 0.05	< 0.5	< 0.04
1065PZ5B (intermediate)	03/01/07	230	230	39	< 0.1	4.2	< 0.05	70	< 0.04 UJ
	03/13/06	230	230	40	< 0.1	3.5	< 0.05	80	< 0.04 UJ
	04/11/05	160	160	41	< 0.1	3.5	< 0.05	75	< 0.04
	03/03/99	NA	174	40.5	NA	4.3	NA	54	NA
	11/24/98	NA	163	44.2	NA	4.4	NA	48	NA
	08/25/98	140	140	26	NA	3.2	NA	33	NA
	06/09/98	NA	150	28.1	NA	3.49	NA	35.3	NA
	03/12/98	NA	154	29.7 D	NA	3.49 D	NA	39.7 D	NA
	12/17/97	NA	153	32.7 D	NA	4.3	NA	46.9 D	NA
	09/16/97	NA	153	33.9 D	NA	4.48 D	NA	49.4 D	NA
1065PZ6A (shallow)	04/06/05	240	240	85	< 0.1	4	< 0.05	100	< 0.04
	03/01/99	NA	255	72.4	NA	5.4	NA	95	NA
	03/01/99	NA	NA	72.4	NA	5.4	NA	95	NA
	11/23/98	251	251	85.8	NA	5.9	NA	110	NA
	08/24/98	240	240	56	NA	4.2	NA	75	NA
	08/24/98	NA	NA	56	NA	4.2	NA	75	NA
	06/08/98	NA	202	65.6 D	NA	18.2 D	NA	92.7 D	NA
	06/08/98	NA	NA	65.6 D	NA	18.2 D	NA	92.7 D	NA
	03/11/98	NA	254	65.8 D	NA	4.63 D	NA	87 D	NA
	03/11/98	NA	NA	65.8 D	NA	4.63 D	NA	87 D	NA
	12/16/97	NA	363	70.1 D	NA	6 D	NA	93.9 D	NA
	09/15/97	250	250	71.2 D	NA	5.58 D	NA	97.5 D	NA
	09/15/97	NA	NA	71.2 D	NA	5.58 D	NA	97.5 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ6B (intermediate)	03/07/07	240	240	64	< 0.1	3.5	< 0.05	75	< 0.04
	03/10/06	230	230	88	< 0.1	4.3	< 0.05	97	< 0.04 UJ
	04/05/05	230	230	98	< 0.1	3.6	< 0.05	94	< 0.04
	03/01/99	224	224	56.8	NA	5	NA	66	NA
	11/23/98	227	227	64	NA	4.9	NA	70	NA
	08/24/98	220	220	46	NA	4.1	NA	57	NA
	06/08/98	228	228	54.4 D	NA	5.01 D	NA	72.5 D	NA
	03/11/98	230	230	58.6 D	NA	4.9 D	NA	72 D	NA
	12/16/97	500	500	62 D	NA	5.58 D	NA	81 D	NA
	09/15/97	216	216	58.4 D	NA	5.11 D	NA	80.7 D	NA
1065PZ7A (shallow)	02/27/07	540	540	35	0.12	1.7	< 0.05	74	< 0.04 R
DUP0227072B	02/27/07	530	530	33	0.12	1.7	< 0.05	74	< 0.04 R
	03/15/06	240	240	76	< 0.1	2.5	< 0.05	95	< 0.04
	04/06/05	410	410	37	0.14	2.9	< 0.05	62	< 0.04 UJ
	03/08/99	279	279	16	NA	0.24	NA	35	NA
	03/08/99	NA	NA	16	NA	0.24	NA	35	NA
	12/01/98	269	269	19.6	NA	0.42	NA	31	NA
	12/01/98	NA	NA	19.6	NA	0.42	NA	31	NA
	08/26/98	260	260	14	NA	0.33	NA	32	NA
	08/26/98	NA	NA	14	NA	0.33	NA	32	NA
	06/10/98	282	282	18.7 G	NA	0.717	NA	38.8	NA
	06/10/98	NA	NA	18.7 G	NA	0.717	NA	38.8	NA
	03/16/98	276	276	19 D	NA	0.744 D	NA	38.2 D	NA
	03/16/98	NA	NA	19 D	NA	0.744 D	NA	38.2 D	NA
	12/18/97	270	270	18.2 D	NA	0.633	NA	41.1 D	NA
	09/17/97	599	599	82.1 D	NA	0.011	NA	1.69	NA
	09/17/97	NA	NA	82.1 D	NA	0.011	NA	1.69	NA
1065PZ7B (intermediate)	03/01/07	350	350	150	< 0.1	4.8	< 0.05	190	< 0.04 UJ
	03/15/06	440	440	30	0.13	3.8	< 0.05	61	< 0.04
	04/06/05	240	240	120	< 0.1	3.2	< 0.05	110	0.06 J-
	03/08/99	260	260	46.6	NA	2.6	NA	57	NA
	12/01/98	235	235	56	NA	2.5	NA	61	NA
	08/26/98	240	240	48	NA	2.9	NA	58	NA
	06/10/98	288	288	53.4	NA	2.79	NA	66.3	NA
	03/16/98	270	270	54.8 D	NA	3.28 D	NA	71.2 D	NA
	12/18/97	260	260	63.9 D	NA	3.27	NA	81.8 D	NA
	09/17/97	264	264	57.3 D	NA	3.42 D	NA	72.3 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW9A (shallow)	03/07/07	490	490	170	0.13	< 0.05	< 0.05	15	< 0.04
	12/05/06	450	450	170	0.15	< 0.05	< 0.05	20	< 0.04
DUP1205062C	12/05/06	450	450	170	0.11	< 0.05	< 0.05	19	< 0.04
1065MW9ACL	12/05/06	433	433	192	< 1 U	< 0.1 U	< 0.1 U	19.3	< 0.05
	08/16/06	440	440	160	0.19	< 0.05	< 0.05	16	< 0.04
	05/24/06	430	430	170	0.12	< 0.05	< 0.05	21	< 0.04 R
DUP0524063B	05/24/06	430	430	170	0.12	< 0.05	< 0.05	21	< 0.04 R
1065MW9ACL	05/24/06	436	436	170	< 1 U	< 0.02 U UJ	< 0.02 U	17.3	0.17 J-
	03/09/06	460	460	170	0.12	< 0.05	< 0.05	22	0.07 J-
DUP0309062B	03/09/06	420	420	170	0.11	< 0.05	< 0.05	21	< 0.04 UJ
	11/30/05	450 J+	450	190	0.16	< 0.05	< 0.05	19	< 0.04
DUP1130052B	11/30/05	450 J+	450	180	0.14	< 0.05	< 0.05	19	< 0.04
1065MW9ACL	11/30/05	422	422	202	< 1 U	< 0.1 U UJ	< 0.1 U UJ	18.7	< 0.05 U
	08/30/05	430	430	180	0.13 J-	< 0.05	< 0.05 UJ	22	< 0.04
DUP0830052B	08/30/05	420	420	170	0.13 J-	< 0.05	< 0.05 UJ	22	< 0.04
1065MW9ACL	08/30/05	432	432	159	< 0.3 U	< 0.1 U	< 1 U	22.7	0.05 J-
	05/24/05	410	410	180	0.11	< 0.05	< 0.05	21	< 0.04
	04/06/05	430	430	190	0.18	< 0.05	< 0.05	17	< 0.04 UJ
DUP0406052A	04/06/05	450	450	180	0.17	< 0.05	< 0.05	15	< 0.04 UJ
1065MW9B (intermediate)	03/07/07	280	280	56	< 0.1	5.5	< 0.05	82	< 0.04
	12/07/06	260	260	53	< 0.1	6.1	< 0.05	76	< 0.04 UJ
	08/16/06	170	170	130	< 0.1	14	< 0.05	180	< 0.04
DUP0816062A	08/16/06	250	250	52	< 0.1	5.7	< 0.05	72	< 0.04
1065MW9BCL	08/16/06	253	253	53	< 2 U	6 J-	< 0.02 U	76	< 0.05
	05/25/06	250	250	55	< 0.1	5.4	< 0.05	75	< 0.04
	03/09/06	240	240	55	< 0.1	5.4	< 0.05	73	< 0.04 UJ
	11/29/05	240 J+	240	55	< 0.1	5.9	< 0.05	71	< 0.04
	08/30/05	240	240	50	< 0.1 UJ	5.4	< 0.05 UJ	64	< 0.04
	05/24/05	360	360	48	< 0.1	5	< 0.05	65	< 0.04
	04/06/05	250	250	53	< 0.1	5.3	< 0.05	67	< 0.04 UJ
1065MW10A (shallow)	03/07/07	260	260	51	< 0.1	< 0.05	< 0.05	48	< 0.04
	03/16/06	260	260	55	< 0.1	< 0.05	< 0.05	45	< 0.04 R
	04/11/05	220	220	58	0.11	< 0.05	< 0.05	46	< 0.04

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW10B (intermediate)	03/07/07	270	270	59	< 0.1	5.3	< 0.05	78	< 0.04
	03/09/06	230	230	51	< 0.1	4.5	< 0.05	65	< 0.04 UJ
	04/11/05	240	240	55	< 0.1	4.9	< 0.05	67	< 0.04
1065MW11A (shallow)	03/07/07	190	190	40	< 0.1	4.7	< 0.05	71	< 0.04
	03/09/06	120	120	20	0.13	2.8	< 0.05	34	< 0.04 UJ
	04/11/05	240	240	58	0.12	2.9	< 0.05	84	< 0.04
1065MW11B (intermediate)	03/07/07	270	270	55	< 0.1	4.3	< 0.05	83	< 0.04
	03/07/06	190	190	77	< 0.1	3.8	< 0.05	78	< 0.04
	04/11/05	250	250	72	< 0.1	3.6	< 0.05	82	< 0.04
1065MW101 (shallow)	03/01/07	670	670	44	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	12/06/06	670	670	45	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	08/16/06	690	690	51	0.28	< 0.05	< 0.05	< 0.5	< 0.04
	05/24/06	660	660	44	0.27	< 0.05	< 0.05	< 0.5	< 0.04 R
	03/13/06	600	600	43	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	11/29/05	680 J+	680	46	0.26	< 0.05	< 0.05	0.5	< 0.04
	08/31/05	730	730	51	0.29 J-	< 0.05	< 0.05 UJ	< 0.5	0.06
	05/26/05	740	740	54	0.35	< 0.05	< 0.05	< 0.5	< 0.04
DUP0526051B	05/26/05	780	780	55	0.35	< 0.05	< 0.05	< 0.5	< 0.04
1065MW101CL	05/26/05	724	724	52	0.3	< 0.1 U	< 1 U	< 1 U	0.140 J-
	03/29/05	670	670	54	0.28	< 0.05	< 0.05	0.98	0.06
1065MW102 (shallow)	03/01/07	81	81	19	0.1	0.23	< 0.05	15	< 0.04 UJ
	12/06/06	220	220	42	0.22	< 0.05	< 0.05	37	< 0.04 UJ
	08/16/06	460	460	100	0.42	0.08	0.36	8.7	0.1
	05/24/06	330	330	66	0.54	< 0.05	< 0.05	11	0.04 J-
	03/14/06	150	150	26	0.25	0.13	< 0.05	16	0.04
	11/29/05	64 J+	64	15	0.15	0.32	< 0.05	24	< 0.04
	05/24/05	330	330	46	0.4	0.07	< 0.05	31	2.4
	03/29/05	220	220	25	0.46	0.2	< 0.05	33	0.11
1065MW103A	06/07/07	370	370	180	0.23	< 0.05	0.29	47 J+	< 0.04 UJ
1047MW101	03/01/07	33	33	11	0.1	0.27	< 0.05	5.7	< 0.04 UJ
DUP0301072A	03/01/07	32	32	11	< 0.1	0.28	< 0.05	5.6	< 0.04 UJ
1047MW101CL	03/01/07	38	NA	NA	< 0.2	0.28	< 0.1	6.6	< 0.4 UJ

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1047MW101	03/07/06	30	30	2.9	< 0.1	0.12	< 0.05	2.1	< 0.04
DUP0307062A	03/07/06	29	29	2.9	< 0.1	0.12	< 0.05	2.0	< 0.04
1047MW101CL	03/07/06	31	31	3.4	< 1 U	0.111	< 0.02 U	2.3	< 0.05 U UJ
	04/06/05	95	95	8.9	0.12	0.13	< 0.05	5.1	< 0.04 UJ

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
mg/L - milligrams per liter
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ1A (shallow)	03/01/07	0.07 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	140 Y	< 50	< 300
	12/05/06	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	ND	NA	260 Y	< 50	< 300
	08/17/06	0.06 J	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND	NA	230	< 50	< 300
	05/24/06	0.09 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160 Y	< 50	< 300
	03/14/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	86	58 Y	< 300
	12/01/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160	< 50	< 300
	08/31/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160	< 80	< 480
	06/02/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	170	< 50	< 300
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	56	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	1.2	< 0.5	3	NA	NA	NA	200	< 50	< 300
	05/26/04	< 0.5	1.9	< 0.5	0.76	2.8 C	NA	NA	NA	220	< 50	< 300
	03/19/04	< 0.5	< 0.5	< 0.5	0.78	< 2	NA	NA	NA	230	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	170	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	310 H	< 50	< 300
	06/11/03	< 0.5	< 0.5	< 0.5	0.68	< 2	NA	NA	NA	170 Y	< 50	< 300
	03/17/03	< 0.5	1.2 C	0.86	0.77	< 2	NA	NA	NA	140	< 50	< 300
	12/06/02	< 0.5	2.2	< 0.5	1.2	< 2	NA	NA	NA	200 Y	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	0.92	< 2	NA	NA	NA	180 Y	< 50	< 300
DUP0905021A	09/05/02	< 0.5	< 0.5	< 0.5	0.79	< 2	NA	NA	NA	160 Y	< 50	< 300
	05/30/02	< 0.5	1.6	0.52	1	< 2	NA	NA	NA	120	< 50	< 300
	03/07/02	< 0.5	1.4	< 0.5	0.58	< 2	NA	NA	NA	97	< 50	< 300
	11/29/01	< 0.5	< 0.5	< 0.5	0.96	< 2	NA	NA	NA	190	< 50	< 300
	09/06/01	< 0.5	1.4	< 0.5	0.64	< 2	NA	NA	NA	150	450 [3] Y,NJ	< 300 [3]
DUP0906013A	09/06/01	< 0.5	2.4	< 0.5	0.61	< 2	NA	NA	NA	140	440 [3] Y,NJ	< 300 [3]
1065PZ1ACL	09/06/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	100 g	< 50	< 300
	05/11/01	< 0.5	< 0.5	< 0.5	0.7	< 2	NA	NA	NA	190 Y	< 50	< 300
	07/18/00	NA	NA	NA	NA	NA	NA	NA	NA	120	< 50	NA
	05/27/99	< 0.5	< 0.5	< 0.5	0.93	NA	NA	NA	NA	110 (J25)	94 (J25)	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	0.91	NA	NA	NA	NA	120 (J25)	< 50	< 300
	11/30/98	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	0.89 (J29)	NA	NA	NA	NA	180 (J25, J29)	< 76 (U12)	< 310
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 2 (U18)	NA	NA	NA	NA	130 (J18, J25)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	76 (J25)	65	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ1A (shallow)	03/16/98	< 0.5	< 0.5	< 0.5	1	NA	NA	NA	NA	77 (J25)	< 50	< 300
	12/18/97	< 0.5	< 0.5	0.67	< 1	NA	NA	NA	NA	150 (J25)	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	190 (J25)	< 50	< 300
1065PZ1B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
	12/05/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP1205061A	12/05/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065PZ1BCL	12/05/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	NA	< 50 U	< 48 U	< 290 U
	08/15/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	350 YZ
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP0524052A	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP1217042B	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP1209023A	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ1BCL	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/02	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	<50	<300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ1B (intermediate)	11/30/98	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	NA	NA	NA	NA	< 50 (U29)	< 55 (U12)	< 330
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ2A (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.1	NA	ND	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 100	< 600
	08/17/06	< 0.5	< 0.5	< 0.5	< 1	2.7 C U	NA	NA	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	7.1	NA	NA	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0401052A	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/15/04	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	< 50	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	5	NA	NA	NA	< 50	< 50	< 300
	05/25/04	< 0.5	< 0.5	< 0.5	< 0.5	2.4 C	NA	NA	< 50	< 50	< 50	< 300
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/29/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 UJ	< 300 UJ
	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0511013A	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/25/99	< 0.5	0.74	< 0.5	1.1	NA	NA	NA	NA	< 50	68 (U12)	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ2A (shallow)	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 51	< 310
	08/25/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50	< 50 (U18)	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	66 (R32)	< 300
1065PZ2B (intermediate)	03/06/07	< 0.5	< 0.5	< 0.5	< 1	2.3	NA	ND	NA	< 50	< 50	< 300
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	2.6	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0813032A	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	<50	< 300
	05/25/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 52	< 310
	08/25/98	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ3A	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.5	NA	ND	NA	< 50	< 50	< 300
(shallow)	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0405052A	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3ACL	04/05/05	< 1 U	< 1 U	< 1 U	< 2 U	< 5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/29/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/99	< 0.5	0.82	< 0.5	1.1	NA	NA	NA	NA	< 50	59 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 61	< 370
	08/24/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ3B												
(intermediate)	02/28/07	< 0.5	< 0.5	< 0.5	< 1	2.8	NA	ND	NA	< 50	< 50	< 300
DUP0228072A	02/28/07	< 0.5	< 0.5	< 0.5	< 1	4.8	NA	ND	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0814032A	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3BCL	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 48	< 240
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ3B (intermediate)	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	110 [3] Y,NJ	< 300 [3]
DUP0905012A	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	110 [3] Y,NJ	< 300 [3]
1065PZ3BCL	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	< 50	< 50	< 300
	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0517014A	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3BCL	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	< 50	< 50	<500
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	67 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 54	< 320
	08/24/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ4A [4] (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.1 C	NA	ND	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	7 C	NA	NA	NA	< 50	< 100	< 600
	08/17/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	90 HY	390
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	06/02/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/14/03	< 0.5	< 0.5	< 0.5	< 0.5	5.9	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 UJ	< 300 UJ

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ4A [4]	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
(shallow)	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	140 [3] YH,NJ	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 54 (U12)	< 310
	08/27/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/11/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	56 (J25)	< 300
	03/17/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/22/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	09/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ4B [4]	03/01/07	< 0.5	< 0.5	< 0.5	< 1	3	NA	ND	NA	< 50	< 50	< 300
(intermediate)	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
DUP0509012A	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 53 (U12)	< 310
	08/27/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	06/11/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ4B [4] (intermediate)	03/17/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/22/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	09/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U29)	< 300
1065PZ5AR (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	3.9	NA	ND	NA	< 50	< 50	< 300
	12/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	< 50	< 50	< 50	< 300
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	3.9 C	NA	NA	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	3.5 C	NA	NA	NA	< 50	< 50	< 300
	03/07/06	< 0.5	0.54 C	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0307062B	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2.5 U	NA	NA	NA	< 50	< 50	< 300
1065PZ5ARCL	03/07/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2	NA	NA	NA	< 50 U	72 J+	< 300 U
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ5B (intermediate)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.6	NA	ND	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0604032B	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ5BCL	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 250
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	0.62 C	< 0.5	0.75	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ5B (intermediate)	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/25/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	66 (J25)	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	08/25/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ6A (shallow)	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	0.78	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	51 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	480 (J25)	430 (J25)
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 320
	08/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ6B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	2.3 U	NA	ND	NA	< 50	< 50	< 300
	03/10/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
DUP0511012A	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 52	< 310
	08/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ7A [4] (shallow)	02/27/07	< 0.5	< 0.5	< 0.5	< 1	12 C	NA	ND	NA	< 50	< 50	< 300
DUP0227072B	02/27/07	< 0.5	< 0.5	< 0.5	< 1	2.8 C	NA	ND	NA	< 50	< 50	< 300
	03/15/06	< 0.5	< 0.5	< 0.5	< 1	**16**	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ7A [4] (shallow)	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 53 (U12)	< 300
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U29)	< 300
1065PZ7B [4] (intermediate)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	3.3	NA	ND	NA	< 50	< 50	< 300
	03/15/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ7B [4] (intermediate)	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 55 (U12)	< 330
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U18)	< 300
1065TMW03 (shallow)	09/06/02	**1,200**	95	290	200	< 10	NA	NA	NA	**6,200**	NA	NA
	06/06/02	**660**	38	150	99	< 20	NA	NA	NA	**4,100**	< 50	< 300
	03/11/02	**170**	14	38	19	**52 C**	NA	NA	NA	**860**	53 YL	< 300
	11/30/01	**3.4 C**	< 0.5	8.8	6.5	< 2	NA	NA	NA	740	91 YL	< 300
	09/06/01	**520**	18	110	109.9	< 10	NA	NA	NA	**3,300 Z**	3,900 [3] YL,NJ	< 3,100 [3]
	05/18/01	**25**	1.9	29	28.3	< 2	NA	NA	NA	**870**	< 50	< 300
	05/27/99	**730**	43	220	232	NA	NA	NA	NA	**18,000 (J25)**	< 50	< 300
	03/09/99	**270**	39	240	400	NA	NA	NA	NA	**13,000**	< 50	< 300
	12/01/98	**4,300**	**1,400**	**11,000**	**20,000**	NA	NA	NA	NA	**910,000 (J25)**	< 50	< 300
	08/27/98	**1,900 (J18)**	**200 (J18)**	**1,700 (J18)**	**2,400 (J18)**	NA	NA	NA	NA	**56,000 (J18, J25)**	< 50	< 300
	06/11/98	**2,000**	**280**	**1,100**	**2,100**	NA	NA	NA	NA	**90,000 (J25)**	< 50	< 300
	03/17/98	**1,800**	**160**	**810**	1,500	NA	NA	NA	NA	**110,000 (J14, J25, J29)**	< 50	< 300
	12/22/97	**1,800**	**210**	**1,000**	**2,900**	NA	NA	NA	NA	**32,000 (J25)**	< 50	< 300
	09/18/97	**1,900**	< 250	**830**	**2,000**	NA	NA	NA	NA	**23,000 (J25)**	< 50	< 300
1065MW9A (shallow)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	5.4 U	NA	ND	NA	< 50	< 50	< 300
	12/05/06	< 0.5	0.57	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP1205062C	12/05/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	12/05/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U UJ	NA	NA	NA	< 50 U	< 65 U	< 390 U
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0524063B	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2 U	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	05/24/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2	NA	NA	NA	< 50 U	< 530 U UJ	< 1,000 U UJ
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0309062B	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW9A (shallow)	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	61 Y	< 300
DUP0816062A	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U UJ	NA	NA	NA	< 50 U	< 50 U	< 300 U
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0830052B	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	08/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0406052A	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	53	< 50	< 300
DUP0310042A	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	0.9	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	120	< 50	< 300
DUP1208031A	12/08/03	0.7	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	130	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	**33**	< 0.5	< 0.5	5	< 2	NA	NA	NA	350	< 50	< 300
DUP0609032C	06/09/03	**25**	< 0.5	< 0.5	5	< 2	NA	NA	NA	310	< 50	< 300
	03/18/03	**5**	0.59 C	< 0.5	1	< 2 U	NA	NA	NA	160	< 50	< 300
	11/05/02	**3.5**	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND	NA	150 YL	< 50	< 300
	10/07/02	**2.66**	< 0.2	< 0.2	2.152	< 1	< 0.5	ND	NA	370	480	< 250
1065MW9B	03/07/07	< 0.5	< 0.5	< 0.5	< 1	2.1 U	NA	ND	NA	< 50	< 50	< 300
	12/07/06	< 0.5	0.61	< 0.5	0.6 C	< 2	NA	NA	< 50	< 50	< 50	< 300
(intermediate)	08/16/06	< 0.5	< 0.5	< 0.5	< 1	3.4 C	NA	NA	NA	< 50	< 50	< 300
DUP0816062A	08/16/06	< 0.5	< 0.5	< 0.5	< 1	2.3 C	NA	NA	NA	< 50	< 50	< 300
1065MW9BCL	08/16/06	< 0.5 U UJ	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	05/25/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW9B (intermediate)	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0813041A	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0527042A	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0609032B	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9BCL	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	120 YL	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	340	< 50	< 250
1065MW10A (shallow)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	2.6 U	NA	ND	NA	< 50	< 50	< 300
	03/16/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	55 HY	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW10B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	3.9 U	NA	ND	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	7.5	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW10B	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
(intermediate)	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
DUP0318032A	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	4.6	NA	NA	NA	NA	NA	NA
1065MW10BCL	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW11A	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	ND	NA	< 50	< 50	< 300
(shallow)	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0317042B	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	3.7	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	**19**	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
DUP0318032B	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW11B	03/07/07	< 0.5	< 0.5	< 0.5	< 1	2.1 U	NA	ND	NA	< 50	< 50	< 300
(intermediate)	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	190 YZ	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/03	< 0.5	< 0.5	< 0.5	< 0.5	3.1 C	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	96 Y	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW101	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
(shallow)	12/06/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	1	< 0.5	0.8	ND	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW101 (shallow)	08/31/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP0526051B	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065MW101CL	05/26/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	NA	< 50 U	130	< 300 U
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065MW102 (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/16/06	0.04 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	NA	NA
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/14/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	09/01/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	NA	NA
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/15/04	< 0.5	< 0.5	< 0.5	< 1	< 2	< 0.5	ND	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2	ND	NA	< 50	< 50	< 300
1065MW103A	06/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	NA	NA
1027MW01	05/06/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 47	< 280
	02/13/96	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 51	< 310
	11/10/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	08/16/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	06/13/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1027MW03	05/06/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 49	< 290
	02/14/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 52	< 310
	11/10/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	08/18/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	06/13/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1047MW101	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	NA	NA
DUP0301072A	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	NA	NA
1047MW101CL	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 2	< 5	ND	NA	NA	NA	NA
	12/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	05/25/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	51 YZ	NA	NA
DUP0307062A	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2 U	< 5 U	ND	< 50	< 50	NA	NA
1047MW101CL	03/07/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5	< 0.5	ND	< 100 U	< 50 U	NA	NA
	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP1130052C	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	< 100 U	< 50 U	NA	NA
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0830052A	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0526052C	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	05/26/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	< 100 U	67	NA	NA
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	12/16/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP1216042A	12/16/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	12/16/04	< 0.5 U	< 0.5 U	< 0.5 U	< 1	< 2 U	< 0.5 U	ND	< 1,000 U	< 50 U	NA	NA
	08/13/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
	05/27/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
DUP0527042B	05/27/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
1047MW101CL	05/27/04	NA	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA
	03/11/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
DUP0311042A	03/11/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
1047MW101CL	03/11/04	NA	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA
	12/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	< 50	< 50	NA	NA

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 6 of the Building 1065 Area CAP (MACTEC, 2005b). The MTBE cleanup level listed is equal to the California Maximum Contaminant Level (EKI, 2002). Total xylenes and TPHg have two different cleanup levels dependent on if the location is inside or outside of the Ecological Buffer Zone. In both cases, the higher cleanup level applies to wells outside of the Ecological Buffer Zone (e.g. the total xylenes cleanup level for wells outside of the Ecological Buffer Zone is 1,750 µg/L, whereas the cleanup level for wells inside the Ecological Buffer Zone is 318 µg/L). Piezometers 1065PZ7A, 1065PZ7B, 1065PZ4A, and 1065PZ4B are the only Building 1065 monitoring locations located inside the Ecological Buffer Zone.

3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
4 - Piezometers 1065PZ4A, 1065PZ4B, 1065PZ7A, and 1065PZ7B are located within the Ecological Buffer Zone and therefore, the lower cleanup level applies per the CAP.
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
TPH - Total petroleum hydrocarbons
BTEX - Benzene, toluene, ethylbenzene, and total xylenes
MTBE - Methyl tert-butyl ether
H - Heavier hydrocarbons contributed to the quantitation.
L - Lighter hydrocarbons contributed to the quantitation.
Y - Sample exhibits a fuel pattern that does not resemble the standard.
Z - Sample exhibits unknown single peak or peaks.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ1A (shallow)	03/01/07	< 100	< 1	15	NA	< 1	29,000 J	< 10	< 1	17,000	< 3	44,000	82	< 20	1,100	180,000 J	< 20	660
	12/05/06	< 100	< 1	**16**	NA	< 1	20,000	< 10	2.2	13,000	< 3	43,000	91	< 20	880 J	180,000	< 20	790 J+
	08/17/06	< 100	< 1	**24**	NA	< 1	21,000 J	< 10	< 1	16,000	< 3	50,000	64	< 20	1,600	220,000	< 20	810
	05/24/06	< 100	< 1	**21**	NA	< 1	30,000	< 10	2.6	23,000	< 3	51,000	98	< 20	1,800	220,000	40	740
	03/14/06	< 100	< 1	**11**	NA	< 1	54,000	< 10	1.2	11,000	< 3	43,000	120	< 20	1,700	140,000	< 20	750
	12/01/05	< 100	< 1	**17**	NA	< 1	22,000	< 10	< 1	15,000	< 3	49,000	110	< 20	680	190,000	< 20	760
	08/31/05	< 100 UJ	< 1	**26**	**20 J**	< 1	20,000	< 10	< 1	19,000	< 3	40,000	110	< 20	1,200	170,000	< 20	710
	06/02/05	< 100	< 1	**30**	**35.7**	< 1	36,000	< 10	< 1	25,000	< 3	49,000	160	< 20	1,900 J	190,000	< 20	720
	03/29/05	< 100	< 1	**31**	3.23	< 1	61,000	< 10	2.1	10,000	< 3	42,000	54	< 20	2,300	110,000	< 20	560
	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	280	< 3	NA	NA	< 20	NA	NA	< 20	710
	08/11/04	NA	NA	**23**	NA	< 1	NA	< 10	< 1	18,000	< 3	NA	NA	< 20	NA	NA	< 20	640
	05/26/04	NA	NA	**20**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	780
	03/19/04	NA	NA	**16**	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	1,490 J
	07/18/00	NA	NA	**18**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	7,990	NA	NA	NA	NA	NA	NA	NA	754
	11/30/98	NA	NA	NA	NA	NA	NA	NA	NA	14,200	NA	NA	NA	NA	NA	NA	NA	807
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	6,360	NA	NA	NA	NA	NA	NA	NA	800
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	10,700	NA	NA	NA	NA	NA	NA	NA	766
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	1,340	NA	NA	NA	NA	NA	NA	NA	695
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	9,740	NA	NA	NA	NA	NA	NA	NA	783
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	9,480	NA	NA	NA	NA	NA	NA	NA	819 B
1065PZ1B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	51,000	< 10	< 1	220	< 3	79,000	89	< 20	38,000 J	95,000	< 20	780
	12/05/06	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	210	< 3	67,000	78	< 20	38,000 J	82,000	< 20	750 J+
DUP1205061A	12/05/06	< 100	< 1	< 5	NA	< 1	45,000	< 10	< 1	110	< 3	64,000	68	< 20	36,000 J	78,000	< 20	770 J+
1065PZ1BCL	12/05/06	< 100 U	< 2 U	< 2 U	NA	< 1 U	57,800	< 10 U	< 2 U	138	< 1 U	85,500	80	< 2 U	43,900	96,700	< 20 U	725
	08/15/06	< 100	< 1	< 5	NA	< 1	52,000	< 10	< 1	270	< 3	77,000	86	< 20	35,000	96,000	< 20	890
	05/24/06	< 100	< 1	< 5	NA	< 1	50,000	< 10	< 1	120	< 3	75,000	91	< 20	38,000	87,000	< 20	500
	03/07/06	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	410	< 3	75,000	86	< 20	38,000	91,000	< 20	800
	11/29/05	< 100	< 1	< 5	NA	< 1	51,000	< 10 UJ	< 1	350	< 3	74,000	73	< 20	40,000	91,000	20	640
	08/30/05	< 100 UJ	< 1	< 5	NA	< 1	43,000	< 10	< 1	190	< 3	49,000	79	< 20	50,000	60,000	< 20	630
	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	52,000	< 10	< 1	270	< 3	76,000	86	< 20	40,000	97,000	< 20	750
DUP0524052A	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	53,000	< 10	< 1	240	< 3	78,000	87	< 20	41,000	99,000	< 20	760
	04/05/05	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	430	< 3	66,000	80	< 20	38,000	86,000	< 20	690
	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	< 100 U	< 3	NA	NA	< 20	NA	NA	< 20	780
DUP1217042B	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	< 100 U	< 3	NA	NA	< 20	NA	NA	< 20	770
	08/13/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	310	< 3	NA	NA	< 20	NA	NA	< 20	730
	05/27/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	330	< 3	NA	NA	< 20	NA	NA	< 20	730
	03/10/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	680
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	645
	11/30/98	NA	NA	NA	NA	NA	NA	NA	NA	141	NA	NA	NA	NA	NA	NA	NA	628
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	603
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	603
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	118	NA	NA	NA	NA	NA	NA	NA	655
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	633
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	105	NA	NA	NA	NA	NA	NA	NA	648
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	568 B

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ2A (shallow)	03/01/07	< 100	< 1	6.2	NA	< 1	19,000 J	< 10	< 1	8,100	< 3	29,000	1100	< 20	3,600	71,000 J	< 20	350
	12/06/06	< 100	< 1	**14**	NA	< 1	25,000	< 10	< 1	13,000	< 3	48,000	1,500	< 20	840	65,000 J	< 20	390 J-
	08/17/06	< 100	< 1	**16**	NA	< 1	23,000 J	< 10	< 1	13,000	< 3	46,000	880	< 20	740	65,000	< 20	450
	05/24/06	< 100	< 1	**14**	NA	< 1	28,000	< 10	< 1	16,000	< 3	53,000	1,700	< 20	970	76,000	< 20	420
	03/13/06	< 100	< 1	**17**	NA	< 1	28,000	< 10	< 1	19,000	< 3	52,000	1,900	< 20	930	70,000	< 20	440
	12/01/05	< 100	< 1	**14**	NA	< 1	22,000	< 10	2.1	15,000	< 3	44,000	1,400	< 20	750	57,000	21	440
	08/30/05	< 100 UJ	< 1	**19**	**16.8**	< 1	25,000	< 10	< 1	16,000	< 3	44,000	1,200	< 20	830	60,000	< 20	380
	05/24/05	< 100 UJ	< 1	**21**	**19.2**	< 1	31,000	< 10	< 1	17,000	< 3	53,000	1,000	< 20	990	67,000	< 20	450
	04/01/05	< 100	< 1	10	8.88	< 1	32,000 J	< 10	1.1	9,600	< 3	39,000	560 J	< 20	1,200	51,000	< 20	440
DUP0401052A	04/01/05	< 100	< 1	9	9.02	< 1	32,000 J	< 10	< 1	8,600	< 3	38,000	590 J	< 20	1,100	52,000	< 20	410
	12/15/04	NA	NA	6.8	NA	< 1	NA	< 10	< 1	3,300	< 3	NA	NA	< 20	NA	NA	88	410
	08/11/04	NA	NA	**19**	NA	< 1	NA	< 10	< 1	16,000	< 3	NA	NA	< 20	NA	NA	< 20	380
	05/25/04	NA	NA	**18**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	940
	03/15/04	NA	NA	**16**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	430
	07/18/00	NA	NA	**25**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	8,800	NA	NA	NA	NA	NA	NA	NA	514
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	13,700	NA	NA	NA	NA	NA	NA	NA	533 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	8,580	NA	NA	NA	NA	NA	NA	NA	3,720
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	14,400	NA	NA	NA	NA	NA	NA	NA	572
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	13,900	NA	NA	NA	NA	NA	NA	NA	472
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	15,100	NA	NA	NA	NA	NA	NA	NA	555
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	11,400	NA	NA	NA	NA	NA	NA	NA	598
1065PZ2B (intermediate)	3/6/2007	< 100	< 1	< 5	NA	< 1	25,000	< 10	< 1	< 100	< 3	37,000	10	< 20	1,000	45,000	< 20	390
	03/07/06	< 100	< 1	< 5	NA	< 1	22,000	13	< 1	140	< 3	35,000	< 10	< 20	1,000	47,000	< 20	350
	04/05/05	< 100	< 1	< 5	NA	< 1	23,000	10	< 1	150	< 3	31,000	< 10	< 20	930	46,000	21	330
	03/10/04	NA	NA	< 5	NA	< 1	NA	11	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	340
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	355
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	365 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	353
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	372
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	359
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	405
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	410
1065PZ3A (shallow)	03/01/07	< 100	< 1	< 5	NA	< 1	46,000 J	< 10	< 1	< 100	< 3	51,000	14	< 20	1,300	24,000 J	< 20	360
	03/13/06	< 100	< 1	< 5	NA	< 1	35,000	< 10	2.6	120	< 3	42,000	< 10	< 20	1,700	24,000	< 20	310
	04/05/05	< 100	< 1	< 5	NA	< 1	65,000	< 10	2	430	< 3	72,000	< 10	< 20	2,200	55,000	< 20	640
DUP0405052A	04/05/05	< 100	< 1	< 5	NA	< 1	63,000	< 10	2.1	410	< 3	70,000	< 10	< 20	2,200	52,000	< 20	580
1065PZ3ACL	04/05/05	< 100 U	< 2 U	< 2 U	NA	< 1 U	66,700	< 10 U	< 2 U	< 100 U	< 1 U	79,200	< 10 U	8.4	< 5,000 U	60,700	< 20 U	704
	03/15/04	NA	NA	< 5	NA	< 1	NA	23	1.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	560
	07/18/00	NA	NA	< 5	NA	< 5	NA	13	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	328
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	365 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	325
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	341
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	491
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	410

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ3B (intermediate) DUP0228072A	02/28/07	< 100	< 1	< 5	NA	< 1	35,000	27	< 1	< 100	< 3	46,000	< 10	< 20	< 500	62,000	< 20	480
	02/28/07	< 100	< 1	< 5	NA	< 1	37,000	27	< 1	< 100	< 3	48,000	< 10	< 20	< 500	64,000	< 20	480
	03/09/06	< 100	< 1	< 5	NA	< 1	34,000	34	1	240	< 3	51,000	< 10	< 20	< 500 UJ	67,000	< 20	1,930
	04/06/05	< 100	< 1	< 5	NA	< 1	35,000	29	< 1	< 100	< 3	47,000	< 10	< 20	< 500	63,000	< 20	480
	03/10/04	NA	NA	< 5	NA	< 1	NA	33	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	490
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	610
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	608 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	595
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	612
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	485
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	553
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	533
1065PZ4A (shallow)	03/01/07	< 100	< 1	12	NA	< 1	58,000 J	< 10	< 1	37,000	< 3	73,000	2100	< 20	6,600	110,000 J	< 20	670
	12/06/06	< 100	< 1	**14**	NA	< 1	60,000	< 10	< 1	30,000	< 3	77,000	2,000	< 20	7,700	120,000 J	< 20	660 J-
	08/17/06	< 100	< 1	**12**	NA	< 1	45,000 J	< 10	< 1	23,000	< 3	64,000	1,700	< 20	6,800	120,000	< 20	740
	05/24/06	< 100	< 1	7.9	NA	< 1	43000	< 10	1.7	21,000	< 3	48000	1800	< 20	5400	150,000	26	580
	03/09/06	< 100	< 1	8.9	NA	< 1	47,000	< 10	< 1	29,000	< 3	89,000	1,700	< 20	5,700 J	100,000	< 20	780
	11/29/05	< 100	< 1	**13**	NA	< 1	51,000	< 10 UJ	< 1	28,000	< 3	72,000	1,900	< 20	6,000	110,000	< 20	650
	08/30/05	< 100 UJ	< 1	**13**	**11.9**	< 1	45,000	< 10	< 1	22,000	< 3	58,000	1600	< 20	5,700	100,000	< 20	550
	06/02/05	< 100	< 1	9.6	9.33	< 1	44,000	< 10	< 1	23,000	< 3	58,000	1,600	< 20	5,200 J	99,000	< 20	590
	04/01/05	< 100	< 1	7.6	6.7	< 1	40,000 J	< 10	< 1	20,000	< 3	58,000	1,400 J	< 20	5,300	83,000	< 20	540
	03/15/04	NA	NA	**14**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	670
	07/17/00	NA	NA	**14**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	12,800	NA	NA	NA	NA	NA	NA	NA	522
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	23,700	NA	NA	NA	NA	NA	NA	NA	556
	08/27/98	NA	NA	NA	NA	NA	NA	NA	NA	16,500	NA	NA	NA	NA	NA	NA	NA	3,620
	06/11/98	NA	NA	NA	NA	NA	NA	NA	NA	14,300	NA	NA	NA	NA	NA	NA	NA	577
	03/17/98	NA	NA	NA	NA	NA	NA	NA	NA	14,700	NA	NA	NA	NA	NA	NA	NA	528
	12/22/97	NA	NA	NA	NA	NA	NA	NA	NA	25,600	NA	NA	NA	NA	NA	NA	NA	587
	09/18/97	NA	NA	NA	NA	NA	NA	NA	NA	22,800	NA	NA	NA	NA	NA	NA	NA	608 B
1065PZ4B (intermediate)	03/01/07	< 100	< 1	< 5	NA	< 1	27,000 J	31	1.2	< 100	< 3	53,000	< 10	< 20	840	59,000 J	< 20	420
	03/13/06	< 100	< 1	< 5	NA	< 1	25,000	25	1.8	< 100	< 3	57,000	< 10	< 20	880	59,000	< 20	240
	04/05/05	< 100	< 1	< 5	NA	< 1	24,000	25	< 1	150	< 3	51,000	< 10	< 20	800	55,000	< 20	470
	03/17/04	NA	NA	< 5	NA	< 1	NA	24 J	2.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	482
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	468
	08/27/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	4,160
	06/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	458
	03/17/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	450
	12/22/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	451
	09/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	434 B
1065PZ5AR (shallow)	03/01/07	< 100	< 1	27	NA	< 1	81,000 J	< 10	< 1	32,000	< 3	75,000	1900	< 20	5,900	86,000 J	< 20	690
	12/07/06	< 100	< 1	**32**	NA	< 1	79,000	< 10	< 1	26,000	< 3	81,000	2,000	< 20	6,700	87,000 J	< 20	730
	08/16/06	< 100	< 1	**40**	NA	< 1	87,000	< 10	< 1	24,000	< 3	85,000	1,900	< 20	7,500	94,000	< 20	830
	05/24/06	< 100	< 1	**26**	NA	< 1	74,000	< 10	< 1	19,000	< 3	77,000	2,100	< 20	6500	91,000	< 20	770
	03/07/06	< 100	< 1	**24**	NA	< 1	70,000	< 10	< 1	23,000	< 3	77,000	2,000	< 20	5,800	83,000	< 20	820
DUP0307062B	03/07/06	< 100	< 1	**21**	NA	< 1	69,000	< 10	< 1	19,000	< 3	81,000	2,000	< 20	6,100	86,000	< 20	950
1065PZ5ARCL	03/07/06	< 100 U	< 2 U	**15**	NA	< 1 U	80,000	< 10 U	< 2 U	13,000	< 1 U	86,000	2,100	5.5	6,000	99,000	< 20 U	1,170 J+
	11/29/05	< 100	< 1	**34 J**	NA	< 1	88,000 J	< 10	< 1	27,000 J	< 3	87,000	2,800 J	< 20	6,600	91,000 J	< 20	930
	08/30/05	NA	NA	NA	**42**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	760
	05/24/05	NA	NA	NA	**24.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	820

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ5AR (shallow)	04/11/05	< 100	< 1	**33**	**26.4**	< 1	90,000	< 10	< 1	32,000	< 3	89,000	2,600	< 20	6,900	95,000	< 20	930
	03/10/04	NA	NA	**22**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	850
1065PZ5B (intermediate)	03/01/07	< 100	< 1	< 5	NA	< 1	31,000 J	21	< 1	< 100	< 3	38,000	< 10	< 20	< 500	54,000 J	< 20	430
	03/13/06	< 100	< 1	< 5	NA	< 1	31,000	21	1	110	< 3	44,000	< 10	< 20	500	60,000	23	430
	04/11/05	< 100	< 1	< 5	NA	< 1	27,000	17	< 1	< 100	< 3	36,000	< 10	< 20	530	58,000	< 20	800
	03/10/04	NA	NA	< 5	NA	< 1	NA	14	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	370
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	368
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	331 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	320
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	323
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	300
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	321
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	348
1065PZ6A (shallow)	04/06/05	< 100	< 1	< 5	NA	< 1	40,000	37	< 1	< 100	< 3	53,000	< 10	< 20	510	81,000	< 20	630
	03/17/04	NA	NA	< 5	NA	< 1	NA	30 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	570
	07/17/00	NA	NA	< 5	NA	< 5	NA	43	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	576
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	555 B
1065PZ6A (shallow)	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	539
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	554
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	557
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	556
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	579
1065PZ6B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	39,000	43	< 1	< 100	< 3	47,000	< 10	< 20	990 J	57,000	< 20	460
	03/10/06	< 100	< 1	< 5	NA	< 1	38,000	40	< 1	200	< 3	54,000	< 10	< 20	700 J	68,000	< 20	660
	04/05/05	< 100	< 1	< 5	NA	< 1	43,000	38	< 1	260	< 3	51,000	< 10	< 20	530	59,000	< 20	490
	03/09/04	NA	NA	< 5	NA	< 1	NA	42	< 1	< 100	< 3	NA	NA	< 20	NA	NA	27	510
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	465
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	457 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	491
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	475
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	484
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	517
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	511
1065PZ7A (shallow) DUP0227072B	02/27/07	< 100	< 1	< 5	NA	< 1	51,000	< 10	1.5	< 100	< 3	81,000	18	< 20	610	41,000	< 20	650
	02/27/07	< 100	< 1	< 5	NA	< 1	51,000	< 10	1.3	< 100	< 3	92,000	15	< 20	< 500	43,000	< 20	650
	03/15/06	< 100	< 1	< 5	NA	1.1	44,000	19	< 1	< 100	< 3	54,000	< 10	< 20	850	63,000	< 20	370 J
	04/06/05	< 100	< 1	< 5	NA	< 1	45,000	< 10	1.1	< 100	< 3	81,000	< 10	< 20	< 500	38,000	< 20	530
	03/17/04	NA	NA	< 5	NA	< 1	NA	< 10 UJ	2.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	540
	07/17/00	NA	NA	< 5	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	391
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	375
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	374
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	472
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	373
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	374
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	358 B

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ7B (intermediate)	03/01/07	< 100	< 1	< 5	NA	< 1	64,000 J	30	1.6	< 100	< 3	83,000	< 10	< 20	500	94,000 J	< 20	840
	03/15/06	< 100	< 1	< 5	NA	< 1	42,000	< 10	< 1	< 100	< 3	95,000	< 10	< 20	< 500	40,000	< 20	650 J
	04/06/05	< 100	< 1	< 5	NA	< 1	43,000	26	< 1	< 100	< 3	60,000	< 10	< 20	< 500	74,000	< 20	570
	03/17/04	NA	NA	< 5	NA	< 1	NA	31 J	3.3	120	< 3	NA	NA	< 20	NA	NA	< 20	540
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	460
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	434
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	487
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	575
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	508
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	505
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	493 B
1065MW9A (shallow)	03/07/07	< 100	< 1	< 5	NA	< 1	60,000	< 10	< 1	4,500	< 3	88,000	480	< 20	16,000 J	66,000	< 20	680
	12/05/06	< 100	< 1	**27**	NA	< 1	55,000	< 10	< 1	3,700	< 3	78,000	460	< 20	16,000 J	67,000	< 20	760 J+
DUP1205062C	12/05/06	< 100	< 1	**23**	NA	< 1	56,000	< 10	< 1	2,800	< 3	78,000	450	< 20	16,000 J	64,000	< 20	750 J+
1065MW9ACL	12/05/06	< 100 U	< 2 U	**16**	NA	< 1 U	67,600	< 10 U	< 2 U	4,480	< 1 U	99,800	498	2.6	19,600	79,400	< 20 U	743
	08/16/06	< 100	< 1	10	NA	< 1	58,000	< 10	< 1	5,100	< 3	94,000	460	< 20	18,000	75,000	< 20	710
	05/24/06	< 100	< 1	6.8	NA	< 1	61,000	< 10	< 1	5,900	< 3	93,000	540	< 20	17,000	68,000	< 20	770
DUP0524063B	05/24/06	< 100	< 1	6.9	NA	< 1	65,000	< 10	< 1	6,200	< 3	99,000	550	< 20	18,000	72,000	< 20	890
1065MW9ACL	05/24/06	< 100 U	< 2 U	7.5	NA	< 1 U	69,900	< 10 U	< 2 U	7,160 J+	< 1 U	102,000	563	2.6	17,800	76,100	< 20 U	694
	03/09/06	< 100	< 1	5.3	NA	< 1	54,000	< 10	< 1	5,400	< 3	90,000	570	< 20	13,000 J	69,000	< 20	870
DUP0309062B	03/09/06	< 100	< 1	6.3	NA	< 1	53,000	< 10	< 1	6,100	< 3	90,000	600	< 20	12,000 J	69,000	< 20	790
	11/30/05	< 100	< 1	< 5	NA	< 1	57,000	< 10	< 1	3,100	< 3	80,000	460	< 20	14,000	64,000	< 20	820
DUP1130052B	11/30/05	< 100	< 1	< 5	NA	< 1	61,000	< 10	< 1	3,000	< 3	87,000	500	< 20	14,000	70,000	< 20	760
1065MW9ACL	11/30/05	< 100 U	< 2 U	4.4	NA	< 1 U	70,000	< 10 U	< 2 U	3,400	< 1 U	96,000	580	< 2 U	17,000 N	74,000	< 20 U	805
	08/30/05	< 100 UJ	< 1	7.4	8.5	< 1	53,000	< 10	< 1	5,400	< 3	75,000	470	< 20	15,000	59,000	< 20	730
DUP0830052B	08/30/05	< 100 UJ	< 1	8.2	6.9	< 1	56,000	< 10	< 1	5,700	< 3	79,000	520	< 20	14,000	64,000	< 20	730
1065MW9ACL	08/30/05	< 100 U	< 2 U	6.32	NA	< 1 U	63,900	< 10 U	< 2 U	4,840	< 1 U	93,300	564	< 2 U	16,100	72,800	< 20 U	779
	05/24/05	< 100 UJ	< 1	8.5	2.23	< 1	64,000	< 10	< 1	3,500	< 3	91,000	540	< 20	14,000	70,000	< 20	810
	04/06/05	< 100	< 1	10	8.23	< 1	58,000	< 10	< 1	6,100	< 3	85,000	500	< 20	15,000	66,000	< 20	770
DUP0406052A	04/06/05	< 100	< 1	7.1	4.36	< 1	62,000	< 10	< 1	3,600	< 3	91,000	450	< 20	17,000	70,000	< 20	670
	12/17/04	NA	NA	8.6	NA	< 1	NA	< 10	19	5,700	< 3	NA	NA	< 20	NA	NA	< 20	810
	08/11/04	NA	NA	7.7	NA	< 1	NA	< 10	< 1	5,400	< 3	NA	NA	< 20	NA	NA	< 20	810
	05/27/04	NA	NA	7.1	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	730
	03/10/04	NA	NA	7.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	720
DUP0310042A	03/10/04	NA	NA	6.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	700
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4 J	NA	NA	NA	NA	NA	NA	NA
1065MW9B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	38,000.00	40	< 1	< 100	< 3	52,000	< 10	< 20	740 J	52,000	< 20	490
	12/07/06	< 100	< 1	< 5	NA	< 1	38,000	36	< 1	< 100	< 3	54,000	< 10	< 20	780	55,000 J	< 20	500
	08/16/06	< 100	< 1	< 5	NA	< 1	37,000	34	1	< 100	< 3	54,000	< 10	< 20	750	56,000	< 20	490
DUP0816062A	08/16/06	< 100	< 1	< 5	NA	< 1	38,000	33	< 1	< 100	< 3	56,000	< 10	< 20	710	60,000	< 20	490
1065MW9BCL	08/16/06	< 100 U	< 60 U	< 100 U	NA	< 5 U	40,100	38	< 20 U	< 100 U	< 50 U	57,000	< 10 U	< 40 U	1110 B	60,800	9 B	505
	05/25/06	< 100 UJ	< 1	< 5	NA	< 1	37,000	38	< 1	< 100	< 3	50,000	< 10	< 20	730	55,000	< 20	430
	05/25/06	< 100 UJ	< 1	< 5	NA	< 1	37,000	38	< 1	< 100	< 3	50,000	< 10	< 20	730	55,000	< 20	430
	03/09/06	< 100	< 1	< 5	NA	< 1	34,000	36	< 1	220	< 3	53,000	< 10	< 20	720 J	59,000	25	570
	11/29/05	< 100	< 1	< 5	NA	< 1	35,000	31 J	< 1	120	< 3	48,000	< 10	< 20	690	52,000	< 20	110
	11/29/05	< 100	< 1	< 5	NA	< 1	35,000	31 J	< 1	120	< 3	48,000	< 10	< 20	690	52,000	< 20	110
	08/30/05	< 100 UJ	< 1	< 5	NA	< 1	32,000	30	< 1	160	< 3	41,000	< 10	< 20	740	47,000	85	470
	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	38,000	34	< 1	< 100	< 3	48,000	< 10	< 20	740	54,000	< 20	490
	04/06/05	< 100	< 1	< 5	NA	< 1	36,000	32	< 1	< 100	< 3	46,000	< 10	< 20	670	51,000	< 20	480

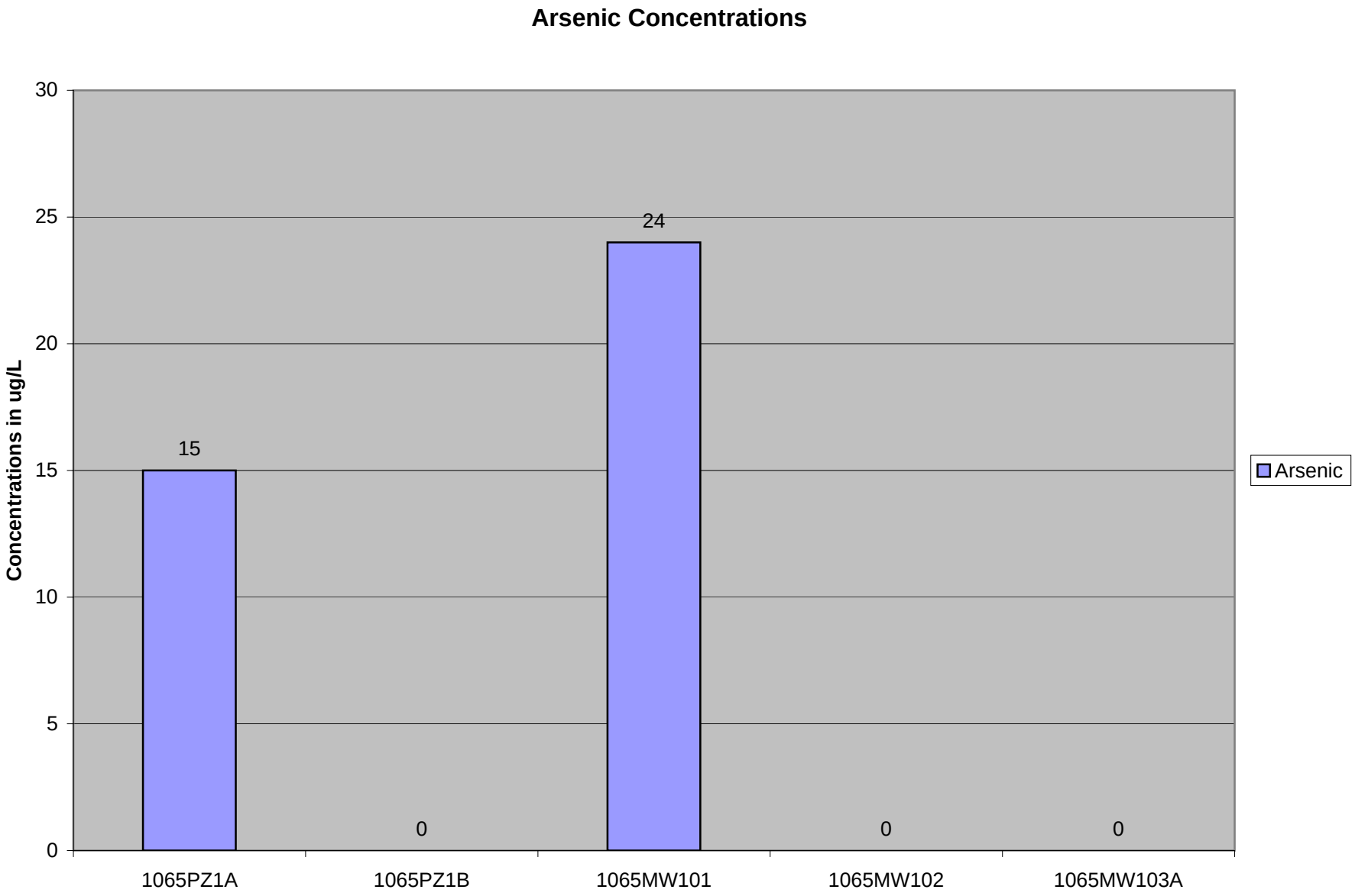
Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

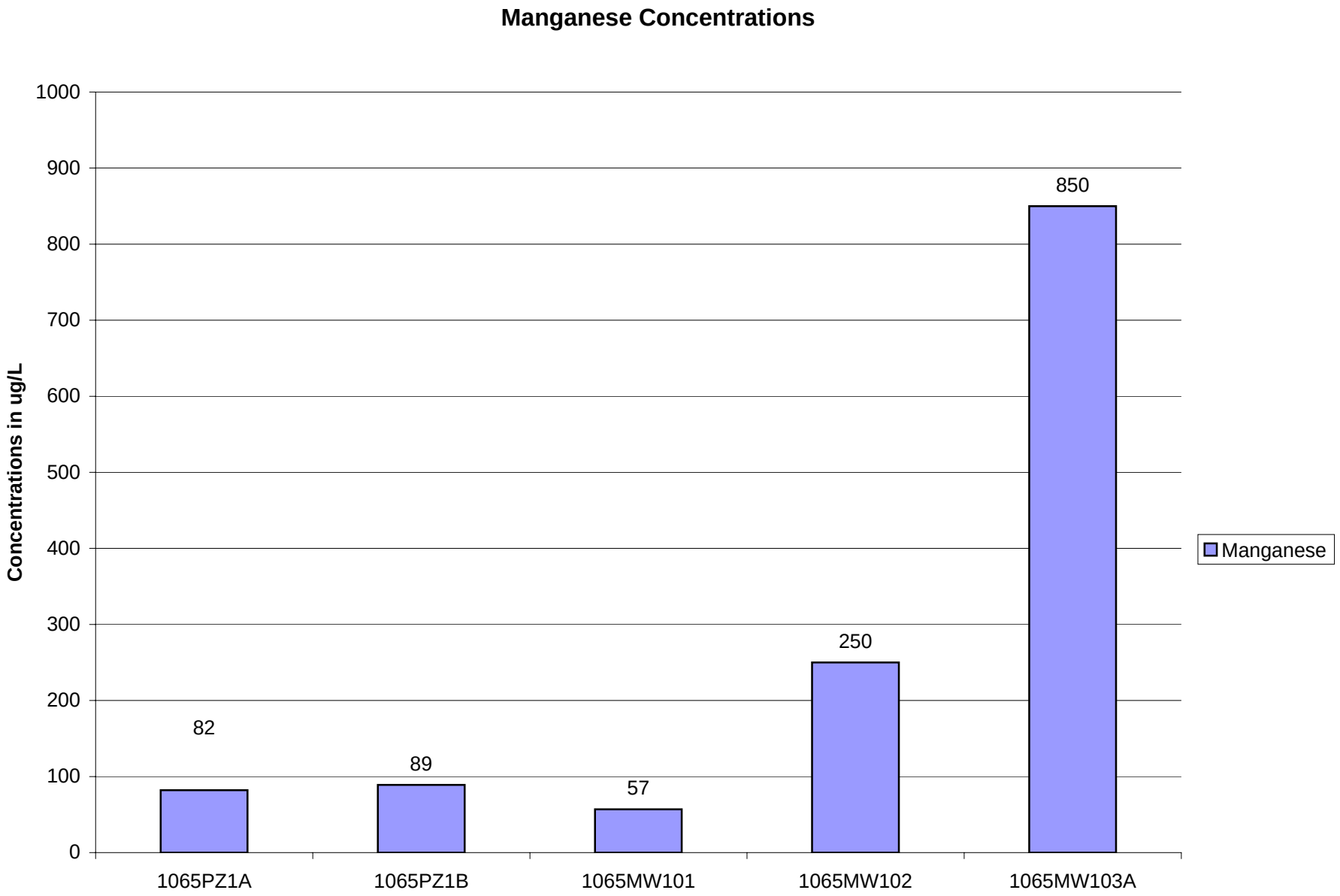
Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		--	**6**	**10**	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--
1065MW9B (intermediate)	12/17/04	NA	NA	< 5	NA	< 1	NA	33	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	500
	08/13/04	NA	NA	< 5	NA	< 1	NA	31	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	500
DUP0813041A	08/13/04	NA	NA	< 5	NA	< 1	NA	32	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	460
	05/27/04	NA	NA	< 5	NA	< 1	NA	32	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	450
DUP0527042A	05/27/04	NA	NA	< 5	NA	< 1	NA	31	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	450
	03/10/04	NA	NA	< 5	NA	< 1	NA	29	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW10A (shallow)	03/07/07	< 100	< 1	< 5	NA	< 1	28,000	< 10	< 1	12,000	< 3	34,000	360	< 20	1,700 J	53,000	< 20	400
	03/16/06	< 100 UJ	< 1	< 5	NA	< 1	29,000	< 10	< 1	13,000	< 3	35,000	520	< 20	1,900	57,000 J	< 20	520 J
	04/11/05	< 100	< 1	< 5	NA	< 1	31,000	< 10	< 1	16,000	< 3	36,000	560	< 20	2,000	60,000	< 20	430
	03/10/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	380
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW10B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	37,000	40	< 1	< 100	< 3	50,000	< 10	< 20	560 J	55,000	< 20	530
	03/09/06	< 100	< 1	< 5	NA	< 1	32,000	37	< 1	190	< 3	47,000	< 10	< 20	550 J	57,000	< 20	510
	04/11/05	< 100	< 1	< 5	NA	< 1	38,000	36	< 1	< 100	< 3	48,000	< 10	< 20	560	60,000	< 20	470
	03/10/04	NA	NA	< 5	NA	< 1	NA	26	1.2	NA	< 3	NA	NA	< 20	NA	NA	< 20	520
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW11A (shallow)	03/07/07	< 100	< 1	< 5	NA	< 1	28,000	31	< 1	< 100	< 3	35,000	< 10	< 20	570 J	50,000	< 20	360
	03/09/06	< 100	< 1	< 5	NA	< 1	16,000	12	< 1	120	< 3	18,000	< 10	< 20	< 500 UJ	31,000	< 20	860
	04/11/05	< 100	< 1	< 5	NA	< 1	36,000	32	< 1	< 100	< 3	45,000	< 10	< 20	750	66,000	< 20	500
	03/17/04	NA	NA	< 5	NA	< 1	NA	10 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	190
DUP0317042B	03/17/04	NA	NA	< 5	NA	< 1	NA	12 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	250
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW11B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	48,000	41	< 1	< 100	< 3	48,000	< 10	< 20	700 J	54,000	< 20	510
	03/07/06	< 100	< 1	< 5	NA	< 1	43,000	38	2.5	200	< 3	47,000	< 10	< 20	700	54,000	< 20	860
	04/11/05	< 100	< 1	< 5	NA	< 1	54,000	38	< 1	< 100	< 3	46,000	< 10	< 20	790	61,000	< 20	600
	03/09/04	NA	NA	< 5	NA	< 1	NA	40	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	510
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW101 (shallow)	03/01/07	< 100	< 1	**24**	NA	< 1	22,000 J	< 10	< 1	22,000	< 3	38,000	57	< 20	5,800	210,000 J	< 20	760
	12/06/06	< 100	< 1	**28**	NA	< 1	23,000	< 10	< 1	19,000	< 3	43,000	53	< 20	6,600	230,000 J	< 20	690 J-
	08/16/06	< 100	< 1	**31**	NA	< 1	22,000	< 10	< 1	18,000	< 3	42,000	64	< 20	7,300	230,000	< 20	910
	05/24/06	< 100	< 1	**26**	NA	< 1	23,000	< 10	< 1	22,000	< 3	43,000	66	< 20	7,300	230,000	< 20	830
	03/13/06	< 100	< 1	**24**	NA	< 1	19,000	< 10	< 1	19,000	< 3	38,000	51	< 20	5,700	200,000	< 20	660
	11/29/05	< 100	< 1	**28**	NA	< 1	20,000	< 10 UJ	< 1	19,000	< 3	38,000	59	< 20	6,000	240,000	< 20	1,020
	08/31/05	< 100 UJ	< 1	**30**	**24.8 J**	< 1	19,000	< 10	< 1	18,000	< 3	35,000	79	< 20	7,200	240,000	< 20	960
	05/26/05	< 100	< 1	**26**	**22.9**	< 1	20,000	< 10	< 1	19,000	< 3	46,000 J	100	< 20	6,700	300,000 J	< 20	720
DUP0526051B	05/26/05	< 100	< 1	**26**	**21.3**	< 1	24,000	< 10	< 1	19,000	< 3	41,000 J	100	< 20	6,800	280,000 J	< 20	670
1065MW101CL	05/26/05	< 100 U	< 2 U	**24**	NA	< 10 U	20,500	< 10 U	< 2 U	17,700	< 1 U	40,000	86.8	11.9	7,510	272,000	< 20 U	965
	03/29/05	< 100	< 1	**23**	**17**	< 1	22,000	< 10	3.7	19,000	< 3	45,000	130	< 20	6,400	260,000	< 20	900
	12/17/04	NA	NA	**21**	NA	< 1	NA	< 10	< 1 U	13,000	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/13/04	NA	NA	**25**	NA	< 1	NA	< 10	1.1	4,000	< 3	NA	NA	25	NA	NA	< 20	NA
1065MW102 (shallow)	03/01/07	< 100	< 1	< 5	NA	< 1	18,000 J	< 10	< 1	1,300	< 3	12,000	250	< 20	3,400	76,000 J	< 20	140
	12/06/06	< 100	< 1	6.3	NA	< 1	28,000	< 10	< 1	1,400	< 3	25,000	460	< 20	5,800	130,000 J	< 20	320 J-
	08/16/06	< 100	< 1	9.6	NA	< 1	29,000	< 10	1.3	130	< 3	24,000	390	< 20	7,900	190,000	< 20	680
	05/24/06	< 100	< 1	**11**	NA	< 1	25,000	< 10	< 1	9,500	< 3	41,000	150	33	3,600	200,000	< 20	560

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

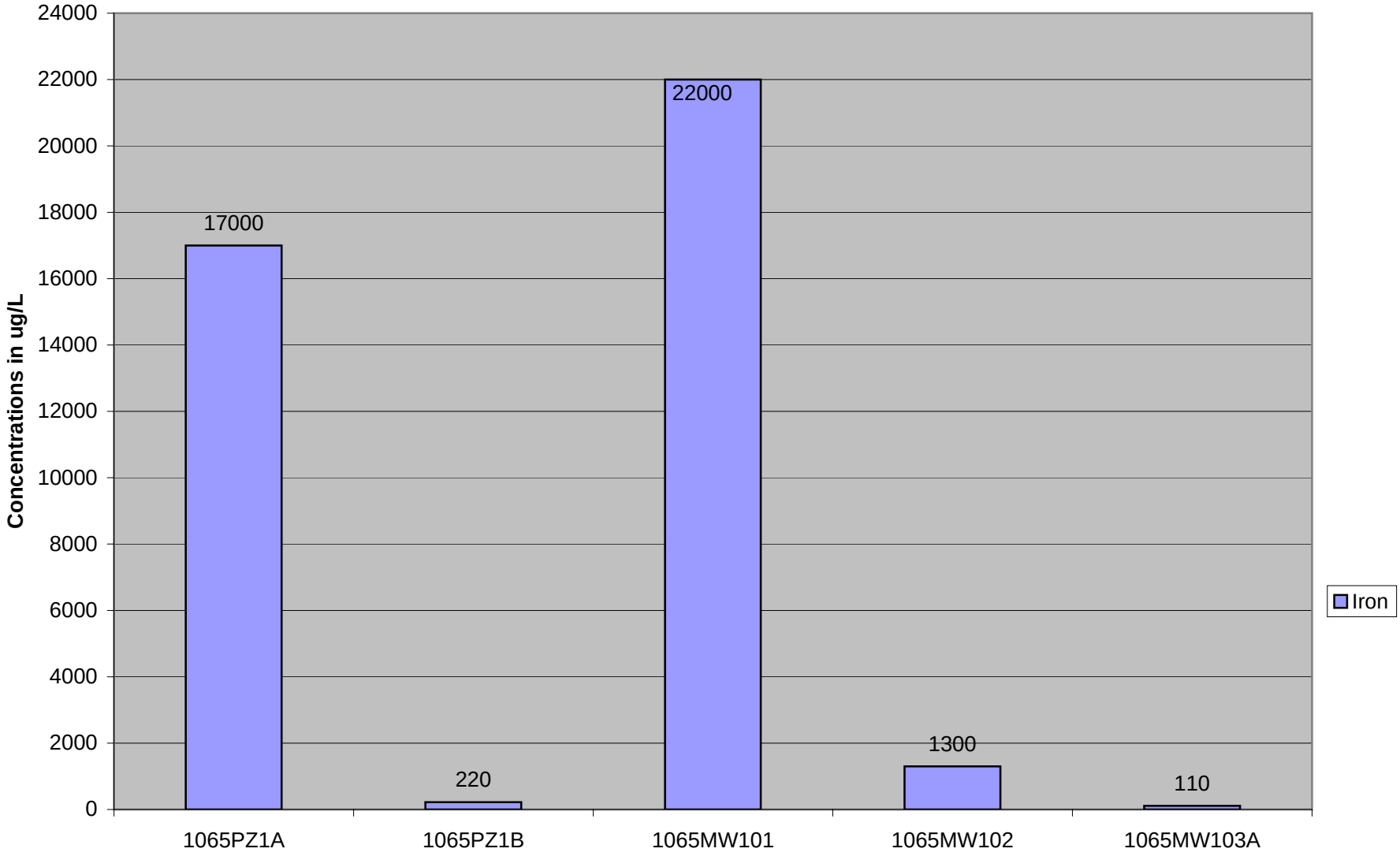
Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		--	**6**	**10**	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--
1065MW102 (shallow)	03/14/06	< 100	< 1	6.8	NA	< 1	14,000	< 10	< 1	1,300	< 3	14,000	180	< 20	4,800	120,000	< 20	450
	11/29/05	< 100	< 1	< 5	NA	< 1	18,000	< 10 UJ	7.8	< 100	< 3	5,900	14	< 20	2,300	23,000	< 20	170
	05/24/05	< 100 UJ	< 1	8.2	4.32	< 1	17,000	< 10	< 1	550	< 3	14,000	220	< 20	7,800	140,000	< 20	470
	03/29/05	< 100	< 1	6.5	5.8	< 1	22,000	< 10	6.9	370	< 3	15,000	220	< 20	6,800	130,000	< 20	340
	12/15/04	NA	NA	**11**	NA	< 1	NA	< 10	< 1	570	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/11/04	NA	NA	**16**	NA	< 1	NA	< 10	11	150	< 3	NA	NA	< 20	NA	NA	25	NA
1065MW103A	06/07/07	< 100	NA	< 5	NA	NA	NA	NA	NA	110	NA	NA	850	NA	NA	NA	NA	820
1027MW01	07/17/00	NA	NA	< 5	NA	< 5	NA	11	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
1027MW03	07/17/00	NA	NA	< 5	NA	< 5	NA	12	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
1047MW101	03/01/07	< 100	< 1	< 5	NA	< 1	8,000 J	< 10	< 1	< 100	< 3	6,800	< 10	< 20	1,400	7,100 J	< 20	< 10
DUP0301072A	03/01/07	< 100	< 1	< 5	NA	< 1	8,500 J	< 10	< 1	< 100	< 3	6,600	< 10	< 20	1,400	7,500 J	< 20	88
1047MW101CL	03/01/07	< 50	0.86	1.1	NA	< 0.02	7,340	< 5	1.6	< 20	0.05	6,410	< 5	1.7	< 2,000	6,970	< 10	52 J-
	03/07/06	< 100	< 1	< 5	NA	< 1	4,300	< 10	2.3	< 100	< 3	4,500	< 10	< 20	1,300	3,100	< 20	180
DUP0307062A	03/07/06	< 100	< 1	< 5	NA	< 1	4,400	< 10	2.5	< 100	< 3	4,700	< 10	< 20	1,300	3,200	< 20	130
1047MW101CL	03/07/06	< 100 U	< 2 U	< 2 U	NA	< 1 U	5,000	< 10 U	< 2 U	< 100 U	< 1 U	4,700	< 10 U	< 2 U	< 5,000 U	< 5,000 U	< 20 U	186 J+
	04/06/05	< 100	< 1	< 5	NA	< 1	5,700	< 10	1.7	< 100	< 3	5,200	< 10	< 20	1,200	< 500 U	< 20	110
	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	1	100	< 3	NA	NA	< 20	NA	NA	< 20	350
DUP0311042A	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	1.1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	310
1047MW101CL	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	< 10	< 500	< 3	NA	NA	< 10	NA	NA	< 20	150 HT-04,J

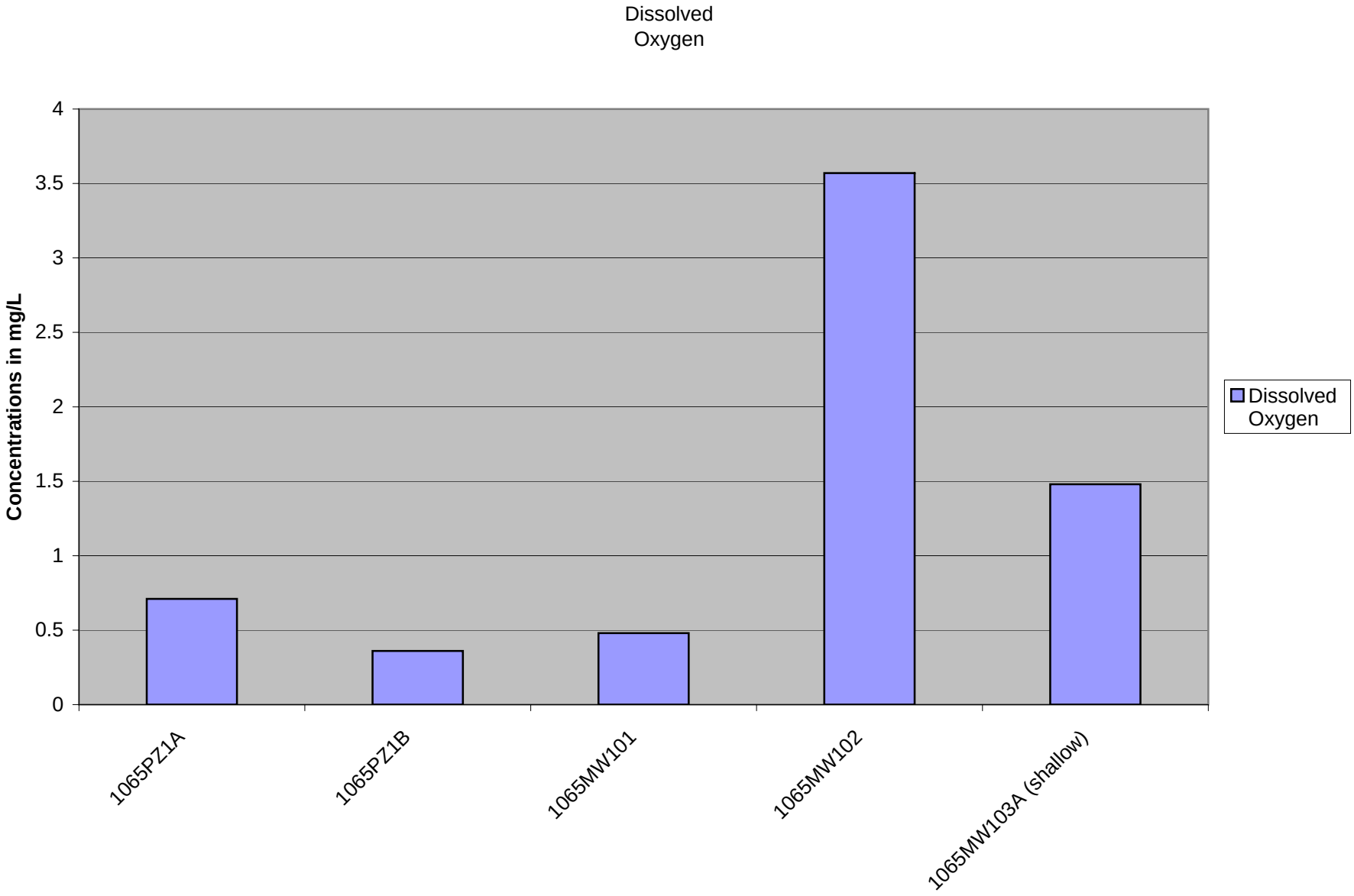
Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 6 of the CAP (MACTEC, 2005b).
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
-- Cleanup level not established
Bold concentrations indicate cleanup level exceedances.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historic data qualifiers.


Arsenic Concentrations
Concentrations in ug/L
30
25
20
15
10
5
0
15
0
24
0
0
1065PZ1A
1065PZ1B
1065MW101
1065MW102
1065MW103A
Arsenic

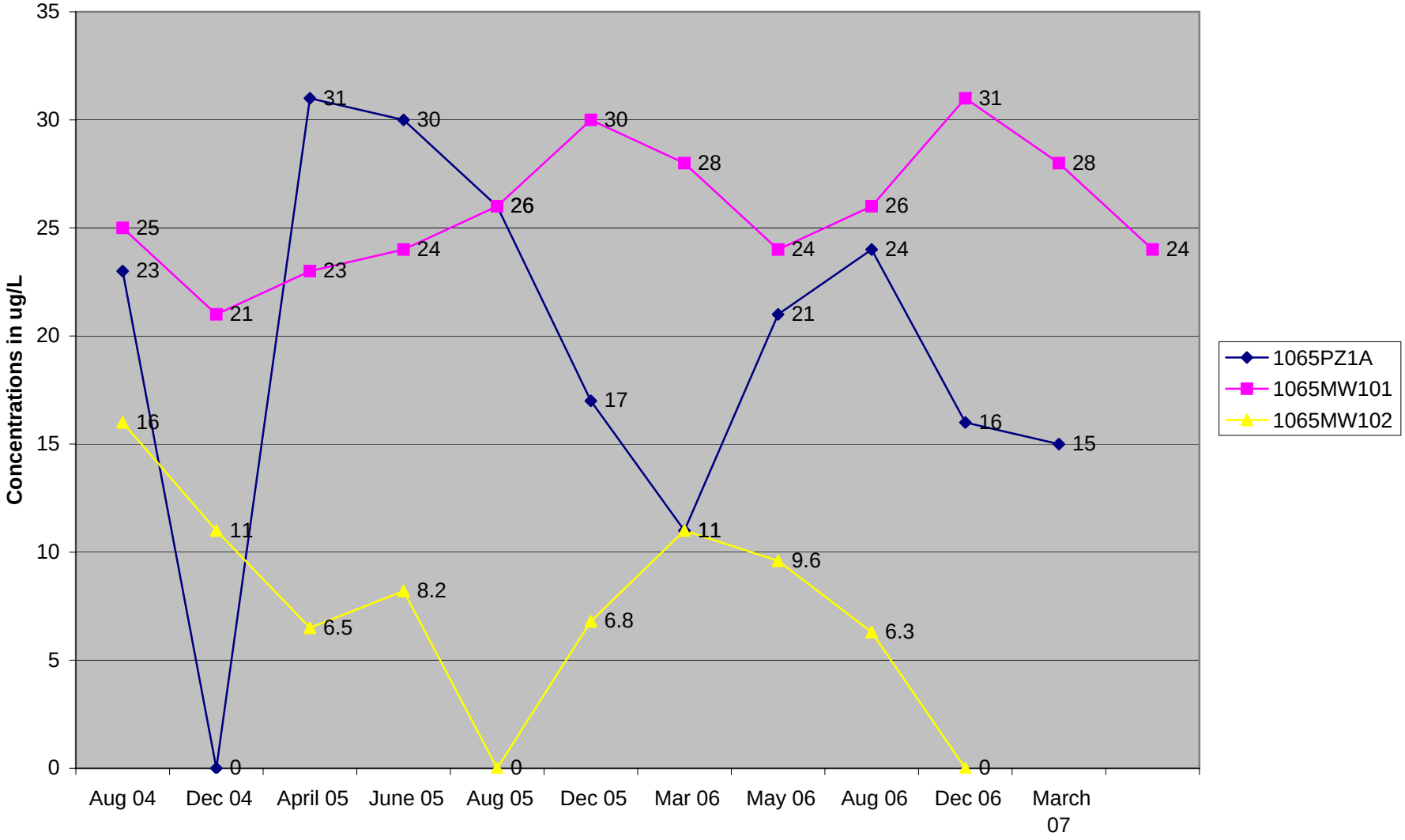

Manganese Concentrations
Concentrations in ug/L
1000
900
800
700
600
500
400
300
200
100
0
82
89
57
250
850
1065PZ1A
1065PZ1B
1065MW101
1065MW102
1065MW103A
Manganese

Iron Concentrations

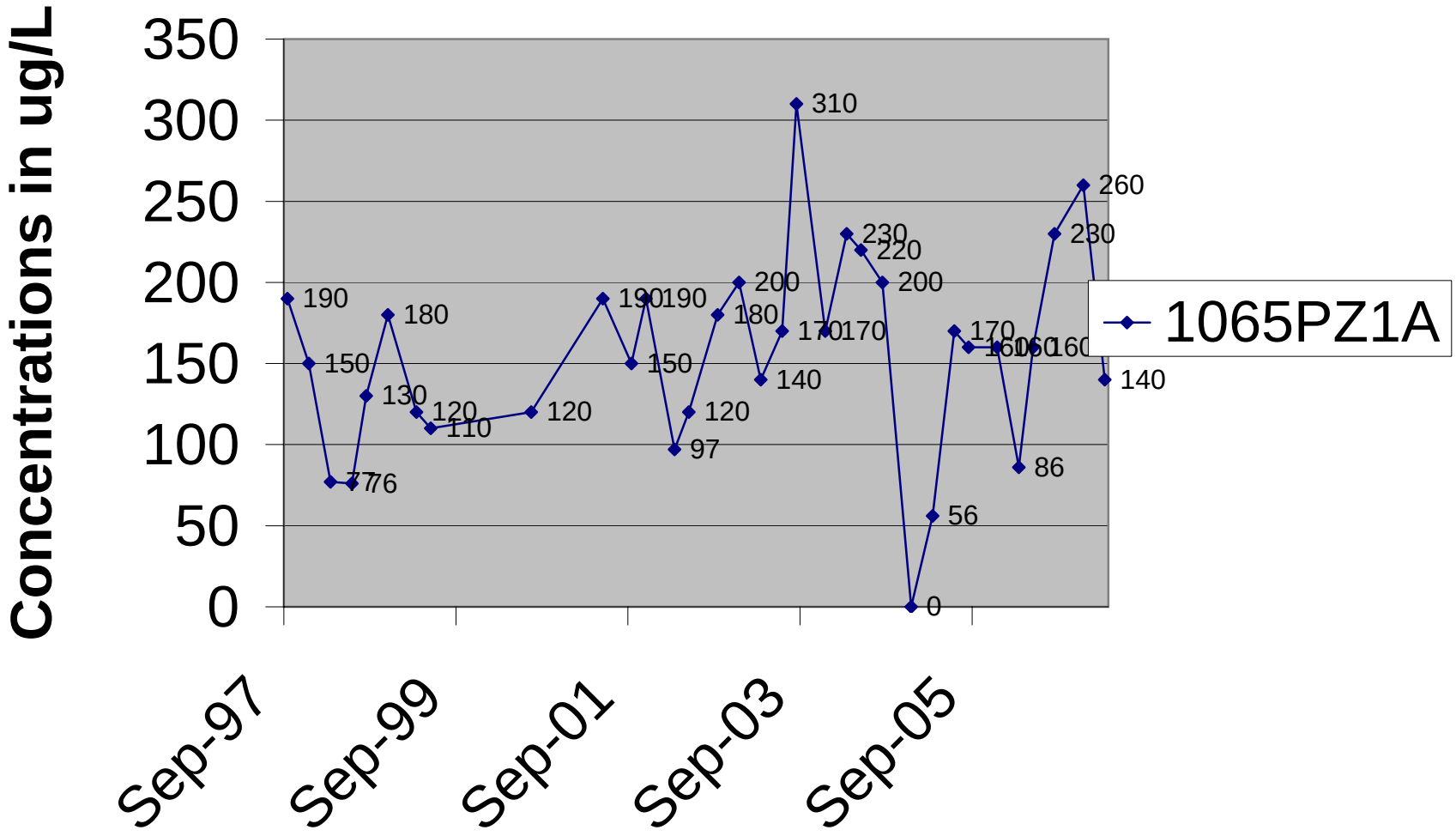



Dissolved Oxygen
Concentrations in mg/L
4
3.5
3
2.5
2
1.5
1
0.5
0
1065PZ1A
1065PZ1B
1065MW101
1065MW102
1065MW103A (shallow)
Dissolved Oxygen

Arsenic Concentrations



TPH gasoline



APPENDIX K

OUTDOOR CAP INSPECTION FORM AND PHOTOGRAPHS

Surface Cover Inspection Form
LUC Zones 1, 2, and 3, Building 1065 Area
Presidio of San Francisco, California

Date: June 3, 2008 Completed by: Scott Graham

Weather: Overcast and cool

Inspection Checklist Item	Change since last inspection ? (Yes/No)	Comments
LUC Zone 1 - North of Building 1063		
Changes in concrete and asphalt pavement Have there been changes to concrete and asphalt pavement north of Building 1063? Describe changes, take photograph, and identify on site map.	N/A – 1st inspection	**Location:** West side of new asphalt patching north of Building 1063. **Description of LUC area:** Old asphalt cover with some cracks and minor weeds. **Photo ID** 542 and 543
LUC Zone 2 - Inside of and south of Building 1063		
Has the area inside of and west of Building 1063 changed since the last inspection; e.g., have any construction activities been performed, is the area secure? Describe changes, take photograph, and identify on site map.	N/A – 1st inspection	**Location:** Southern foundation of Building 1063 between concrete slab (on east) and westernmost sliding door. Area extends 1 foot south and 3 feet north (inside building) of foundation wall. Combination to get inside of building is 1063. **Description of LUC area:** Compacted AB (road base) to surface (approximately 1 inch below slab foundation elevation inside Bldg. 1063). **Photo ID** 544, 545, and 546
LUC Zone 3 - Building 1040 outdoor cap		
Status of monitoring point at Building 1040 Measure distance from the top of the established survey rod to the top of ground surface.	N/A – 1st inspection	**Point 1:** Survey rod is located approximately 3 feet from foundation wall and 2 feet north of the double doors. Measurement was 4.5 inches from the top of the ground surface to the top of the stake. Measurement was taken on the north side of the survey rod. **Photo ID** 570, 571, 572

Surface Cover Inspection Form
LUC Zones 1, 2, and 3, Building 1065 Area
Presidio of San Francisco, California

Inspection Checklist Item	Change since last inspection ? (Yes/No)	Comments
Changes in ground surface in unpaved areas Has the area west of Building 1040 changed since the last inspection; e.g., has soil eroded away or been removed? Describe changes, take photograph, and identify on site map.	N/A – 1st inspection	**Location:** Soft dirt and weeds west of the northwest corner of Building 1040. **Description of LUC Area:** Took measurements from 5 different locations. Measurement locations and measurements (in inches) are shown on the attached photographs. **Photo ID** 548, 550, 561 through 572
Changes in concrete and asphalt pavement Have there been changes to concrete and asphalt pavement north of Building 1040? Describe changes, take photograph, and identify on site map.	N/A – 1st inspection	**Location:** Concrete sidewalk area between Building 1040 and chain link fence, north of the northwest corner of Building 1040. **Description of LUC Area:** Concrete sidewalk, concrete drainage channel, and flat grass/weed area to chain link fence. **Photo ID** 549 and 560
Other changes in site status Under comments list any additional changes in site status including additional construction or re-vegetation activities. Take photograph	N/A – 1st inspection	**Location and description of change:** N/A – 1st inspection. **Photo ID** N/A

Attachments: Photographs and Site Map

LUC Zone 1 from the northwest (looking southeast). LUC zone is just west of the newly paved area and just north of Building 1063. Photograph # 542.

Close up of LUC Zone 1 from the northeast (looking southwest). Photograph # 543.

LUC Zone 2, looking west northwest, LUC zone is under the southern foundation of Building 1063 (located on the right of this photograph) from a few feet into the concrete slab (foreground) and extending west. Photograph # 544.

LUC Zone 2, inside the building looking west, southern wall of Building 1063 on left. Photograph # 545.

Building 1040 from the west (looking east). The main part of LUC Zone 3 is located in front of the double doors between the pop-out section of the building (with the lower roof line) and the chain link fence on the left of the photograph. Photograph # 494.

LUC Zone 3, looking east at the northwest corner of Building 1040 and the LUC area north of the building. Photograph # 549.

LUC Zone 3, looking west at 1st measurement point (just to the right of the green measuring tape), building corner is the northwest corner of Building 1040. Photograph # 567.

1st measurement point, 50.75 inches from point shown (top of flat section of foundation wall) to ground surface. Photograph # 566.

LUC Zone 3, looking southeast at 2nd measurement point (to the left of the pipe stubs near the top of the slope), closeup of measurement point is below. Photograph # 550.

2nd measurement point, 32 inches from ground surface to top of flat area of the foundation wall (where it slopes in). Photograph # 561.

LUC Zone 3, Looking east at the location of the 3rd measurement point (in center of double doors where the green tape measure is shown). Photograph # 568.

3rd measurement point. 17 inches from ground surface to tap of concrete slab. Photograph # 563.

LUC Zone 3. Looking east-northeast at measurement point 4 (eastern side of double doors) where the green tape measure is located. Photograph # 569.

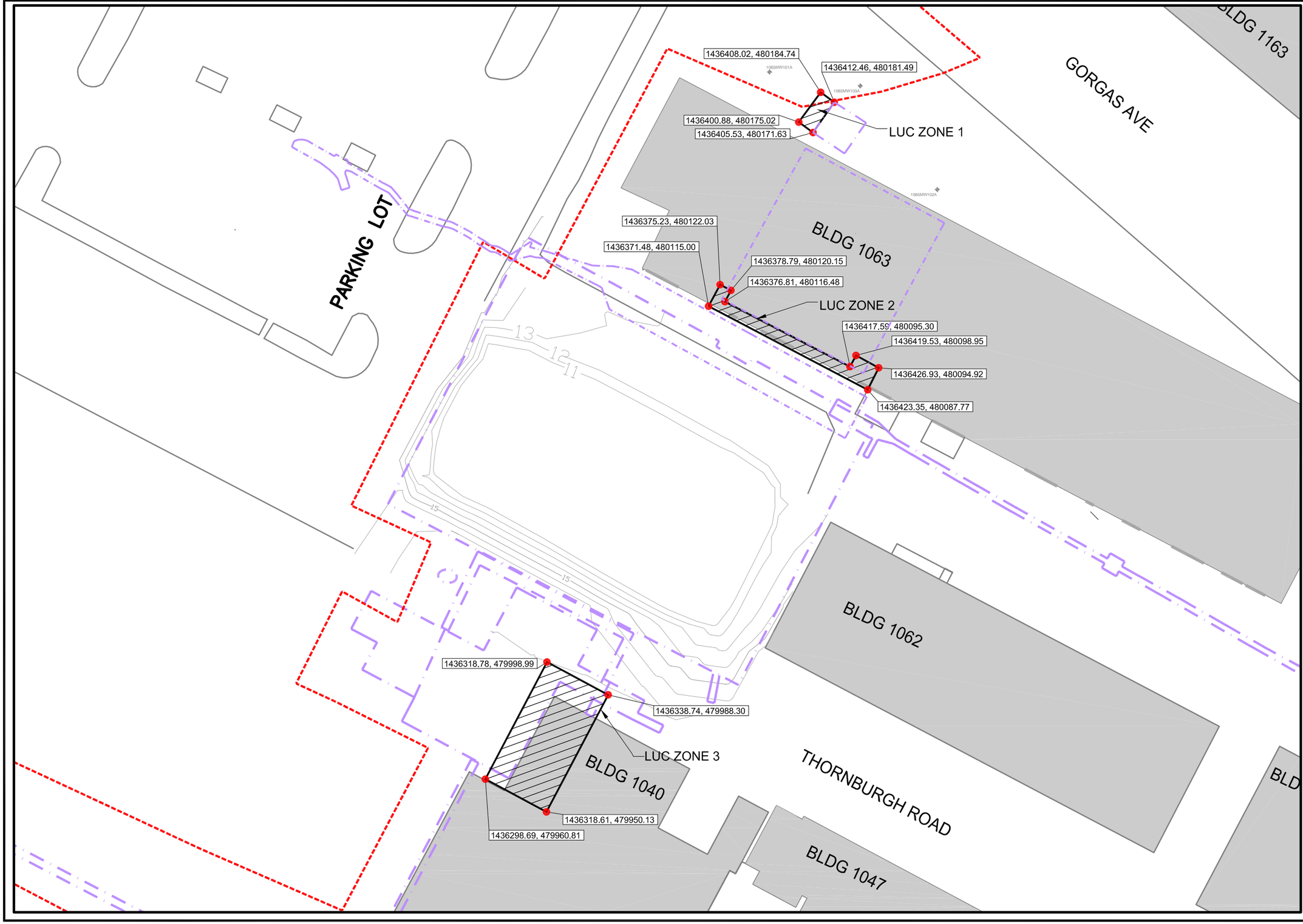
Measurement location 4. 12 inches from the ground surface to top of flat area of the foundation wall (where it slopes in). Photograph # 562.

LUC Zone 3. Looking south at the location of measurement point 5 at the edge of the sidewalk in front of the single door. Photograph # 565.

Measurement 5. 2 inches from top of ground surface to top of concrete sidewalk. Photograph # 564.

LUC Zone 3. Looking east at location of measuring stake (metal rod painted orange and with pink marking tape tied around it). Photograph # 572.

Measuring stake. Measurement to be collected on north side of stake. Measurement at time of this picture was 4.5 inches from the top of the ground surface to the top of the stake. Photograph # 570.



MACTEC

LEGEND

- SELECATED VERTEX WITH X,Y COORDINATES, NAD 1927, CALIFORNIA STATE PLANE, ZONE 3, U.S. SURVEY FEET.
- LAND USE CONTROL ZONES
- PREVIOUS EXCAVATION AREA BOUNDARY
- BOUNDARY OF FILL SITE 6B INVESTIGATION AREA
- EXISTING BUILDING
- 15 — TOPOGRAPHIC CONTOURS IN NAVD 88; CONTOUR INTERVAL 1 FOOT

N

15 0 15 30

SCALE IN FEET

Land Use Control Zone Coordinates
Building 1065 Area
LUCMRR Addendum
Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	K-1
APPROVED	MJH		
DATE	03/2009		
PROJECT NUMBER	4084075115		

4084075115005.DWG 10.0
20080506.1510

BUILDING 1040 VAPOR INTRUSION ASSESSMENT AND FIELD SAMPLING REPORT

Presidio of San Francisco, California

Prepared for:

Presidio Trust
San Francisco, California
(EKI A70004.19)

August 2008

REGISTERED PROFESSIONAL ENGINEER
JOHN THOMAS DE WITT
C055468
Exp. 12/31/2010
CIVIL
STATE OF CALIFORNIA

Signed 3/6/2009

John T. DeWitt, P.E., Erler & Kalinowski, Inc.

3/6/09
Date

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 BACKGROUND 2

3.0 DATA QUALITY OBJECTIVES 3

4.0 SAMPLING ACTIVITIES 4
4.1 Sample Collection Procedures 4
4.2.1 Collection of Soil Gas Samples 4
4.2.2 Deviations from the Work Plan 4
4.2.3 Post-Sample Collection Activities 5
4.2 Results of Laboratory Analysis 5
4.3 Data Validation 6
4.4 Indoor Cap Assessment 6

5.0 CONCLUSIONS 8

6.0 REFERENCES 9

List of Tables

Table 1 Analytical Results for Soil Gas Sampling

List of Figures

Figure 1 Site Location Map
Figure 2 Sampling Locations

List of Appendices

Appendix A Data Quality Objectives Table from 13 March 2008 Work Plan
Appendix B Laboratory Analytical Reports
Appendix C Survey Results
Appendix D Data Validation Report

1.0 INTRODUCTION

On behalf of the Presidio Trust ("Trust"), Erler & Kalinowski, Inc. ("EKI"), has prepared this *Vapor Intrusion Assessment and Field Sampling Report* documenting the implementation and results of the *Building 1040 Indoor Air and Cap Assessment Work Plan, Presidio of San Francisco, California*, dated 13 March 2008, ("Work Plan"; EKI, 2008). The Work Plan was prepared as an appendix to the *Corrective Action Implementation Work Plan, Building 1065 Area, Presidio of California*, dated 10 August 2007 and prepared by MACTEC (MACTEC, 2007a). The field sampling activities for the Work Plan were completed in April 2008. Building 1040 is located in the northeast corner of the Presidio, in the Letterman Complex Planning District within Area B of the Presidio, between Thornburg and Eddie Roads (see Figure 1). Building 1040 is within an area being addressed by the Trust in the Building 1065 Corrective Action Plan ("CAP") (MACTEC, 2007b).

The Trust plans to lease Building 1040 to commercial businesses, resulting in a need to evaluate the risk to future commercial building occupants from exposure to possible residual subsurface chemicals from former Army activities through the vapor intrusion exposure pathway. To address these concerns, the Work Plan included an assessment of the potential for vapor intrusion into indoor air within Building 1040, assessment of the indoor portion of the cap, and review of needs for potential improvements to the indoor portion of the cap.

The approach of the Work Plan was developed taking into account the California Environmental Protection Agency, Department of Toxic Substances Control ("DTSC") guidance entitled *Interim Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (DTSC, 2004), U.S. Environmental Protection Agency ("U.S. EPA") guidance entitled *OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)* (U.S. EPA, 2002), and consultation with the Trust, the National Park Service ("NPS"), Regional Water Quality Control Board, San Francisco Bay Region ("Water Board"), and DTSC. The Work Plan incorporated site visits to Building 1040 with Trust representatives where potential sample locations were selected and marked. The Work Plan was provided to the NPS, Water Board, DTSC, and members of the Restoration Advisory Board ("RAB"). Collectively, these parties are referred to as the "stakeholders."

The Work Plan was approved by the Water Board in a letter, *Water Board Approval of the March 13, 2008 Addendum to the Final Corrective Action Plan, Building 1065 Area and Revised Building 1040 Indoor Air and Cap Assessment Work Plan, Presidio of San Francisco,* dated 27 March 2008 (Water Board, 2008). The scope of work was conducted in accordance with the Presidio-wide Quality Assurance Project Plan ("QAPP") (Tetra Tech, 2001).

2.0 BACKGROUND

Detailed site background and remedial approach for the Building 1065 Area is provided in the Building 1065 CAP (MACTEC, 2007b) and the Implementation Work Plan (MACTEC, 2007a). According to the Building 1065 CAP, Building 1040 was constructed in 1920 and formerly operated as a power house and steam plant. Two former aboveground storage tanks ("ASTs") (AST 1040.1 and 1040.2) provided fuel for the equipment. These tanks were refilled by the Army's fuel distribution system ("FDS"), a network of fuel supply lines at the Presidio. The tanks were located in the northwest corner of the building. The Army removed the tanks and the FDS pipelines in 1996. The building itself is considered a historic structure with contributive value to the National Historic Landmark and is therefore planned to be preserved.

The Building 1065 CAP identifies a limited area of petroleum hydrocarbon impacted soil in the northwestern corner of Building 1040 that is identified as Remedial Unit C ("RU-C"). Former AST 1040.2 (a 20,000 gallon tank) was removed from this area. Residual concentrations of total petroleum hydrocarbons ("TPH") as fuel oil and unknown diesel hydrocarbons exceed applicable cleanup levels in soil. The maximum detected concentration of TPH fuel oil in soil in RU-C was 290 mg/kg, above the cleanup level of 114 mg/kg, and the maximum detected concentration of unknown diesel hydrocarbons was 2,000 mg/kg, above the cleanup level of 115 mg/kg.

Benzene was detected slightly below the 0.005 mg/kg applicable cleanup level, and acetone was also detected at a maximum concentration of 0.1 mg/kg, below the cleanup level of 0.24 mg/kg. No other volatile organic compounds ("VOCs") were detected in the soil samples. Anthracene, benzo(a)pyrene, chrysene, fluoranthene, phenanthrene, and pyrene were detected in the soil samples. The maximum concentration of any detected polycyclic aromatic hydrocarbon ("PAH") was 0.096 mg/kg, and no detections exceeded applicable cleanup levels. No other PAHs were detected in the soil samples. No groundwater impact is noted in the RU-C Area.

The approved remedial action for the RU-C area is to maintain and monitor the existing cap to isolate impacted soil from potential receptors and impose a land use control.

Based on the approved remedial action for the RU-C area, EKI proposed perimeter soil gas sampling to identify potential chemicals in the subsurface at Building 1040 that could volatilize into indoor air.[1] The scope of this investigation also included inspecting the building slab for functionality as a cap and identifying potential improvements for cap integrity.

[1] The presence of large mechanical equipment and slab thickness up to 4 feet thick limit the ability to perform a sub-slab soil vapor investigation.

3.0 DATA QUALITY OBJECTIVES

The data quality objectives ("DQOs") from the Work Plan guided the collection of additional data to evaluate the potential for human health risks in indoor air from residual COCs in soil under Building 1040. DQOs prepared for the Work Plan illustrate the rationale and decision making process; the DQOs are presented in Appendix A.

The DQO table identifies the specific guidance levels with which the sample results would be compared to assess whether additional investigation was warranted. Specifically, data were compared to environmental screening levels ("ESLs") developed by the Water Board, and, if ESLs were exceeded, site-specific Risk-Based Target Concentrations ("RBTCs") for detected chemicals with specific exposure scenarios (populations, factors, and parameters) were to be developed. The results of these comparisons are intended to determine if additional risk calculations or sampling should be performed and to evaluate the need for monitoring or potential remedial actions.

4.0 SAMPLING ACTIVITIES

4.1 Sample Collection Procedures

4.2.1 Collection of Soil Gas Samples

On 18 April 2008, EKI collected soil gas samples from 6 locations outside Building 1040, as indicated on Figure 2 (sample locations 1040SG101 through 1040SG106). A duplicate sample was collected at location 1040SG101. Using direct push technology, EKI's soil gas sampling contractor installed temporary soil gas implants in accordance with the joint DTSC and the California Regional Water Quality Control Board – Los Angeles Region ("LARWQCB") *Advisory – Active Soil Gas Investigations*, dated 28 January 2003 (DTSC and LARWQCB, 2003) ("State Advisory"), and the procedures outlined in the Work Plan. Soil gas samples were collected from as close as reasonably practical to the buildings (approximately 2 to 4 feet from the wall) and approximately 5 feet below ground surface ("bgs"), at least 1 foot above local groundwater elevation measured in the nearby groundwater monitoring wells. The soil gas samples were collected in laboratory-provided SUMMA canisters and flow controllers (for TO-15 analysis) and sorbent cartridges (for TO-13 analysis). The vacuum in each SUMMA canister was recorded prior to collection of soil gas samples, and at the end of sampling (approximately 5 inches of mercury vacuum). After collecting the samples in SUMMA canisters, EKI collected samples for TO-13 analysis in sorbent cartridges using an air pump with a flow regulator. Temporary tubing to the implants was removed after soil gas samples were collected.

4.2.2 Deviations from the Work Plan

Sampling was conducted in accordance with the Work Plan except for two deviations: (1) sample collection days, and (2) a downhole vacuum was encountered at sample location 1040SG102. Although sampling was originally anticipated to be completed in one day, the actual sampling was conducted over two days. Samples for analysis by TO-15 were collected on 18 April 2008. A component for collecting the TO-13 samples was not included in the sampling equipment delivered by the laboratory. The missing component was obtained and the TO-13 samples were collected the following day (19 April 2008) from the existing soil gas implants.

A high downhole vacuum was encountered at sample location 1040SG102; as a result, only a partial sample could be collected at that point. A downhole vacuum occurs when tightly packed soil results in low permeability soil. Even though the SUMMA canister is under vacuum, if there is very limited permeability of the soil, only a partial sample can be collected.

It is possible that tightly compacted excavation backfill from the excavation of the former AST removal resulted in the downhole vacuum observed at location 1040SG102. To test this hypothesis and to rule out the possibility of equipment malfunction, EKI conducted the following actions:

- A second borehole, 1040SG102A, was drilled at a location beside location 1040SG102. EKI attempted to collect a soil gas sample from the new sample point. The same downhole vacuum effects were observed. The new location was farther from the building. No sample was collected from this location.

- To confirm that the effects were not caused by a faulty manifold, the purge SUMMA canister and manifold previously used at a different sample location and confirmed to be working were tested at locations 1040SG102 and 1040SG102A. The downhole vacuum effects were observed in both boreholes.

- In a final test, an air pump (calibrated to pump air at approximately 100 mL/min) and a vacuum gauge were attached to the temporary soil gas implants. In less than one minute, the vacuum gauge read approximately 10 inches of mercury and the air pump shut off due to insufficient air availability. This test was tried on both locations 1040SG102 and 102A and the same results were observed at both locations.

These tests confirmed the downhole vacuum effects were due to subsurface conditions. A sample was collected for TO-15 analysis at boring 1040SG102 and submitted for analysis. Because a complete sample volume could not be collected, the detection limits for the results from this sample location were elevated (see Table 1). No sample could be collected for TO-13 analysis from location 1040SG102 due to the downhole vacuum.

4.2.3 Post-Sample Collection Activities

After completion of the soil gas sampling, the sample locations were surveyed by PLS Surveys, Inc. of Oakland, California, a State of California-licensed land surveyor. Surveyed locations are shown on Figure 2. The survey data are included in Appendix C.

4.2 Results of Laboratory Analysis

The soil gas samples were analyzed by Air Toxics Ltd. of Folsom, California, a State-certified analytical laboratory. The samples were analyzed for VOCs by EPA Method TO-15 with selective ion monitoring ("SIM") to meet project-specific detection limits, and for PAHs by EPA Method TO-13. The laboratory provided data in a Level IV package, included as Appendix B.

Table 1 presents the analytical results of the soil gas sampling event. No VOCs or PAHs were detected in any of the soil gas samples at concentrations greater than the Water Board's commercial/industrial or residential ESLs. The Water Board has not calculated or published soil gas ESLs for four of the detected analytes: 4-ethyltoluene; Freon 11; 1,3,5-trimethylbenzene; and 1,2,4-trimethylbenzene. These analytes were detected at low levels, only slightly above their respective reporting limits. Because no VOCs or PAHs were detected above residential ESLs, site-specific RBTCs were not calculated for soil gas at Building 1040.

4.3 Data Validation

Data validation was performed by DataVal of Novato, California, in accordance with the project-specific guidelines outlined in the QAPP. The data were reviewed for reporting limits, holding times, blanks, GC/MS tunes, initial calibrations, continuing calibration verification standards, internal standards, laboratory control samples, matrix spikes, matrix spike duplicates, compound identification and quantitation, and field duplicate samples. Data were also reviewed for surrogate recoveries.

Based on the report from DataVal (see Appendix D), the data are generally acceptable for use, as qualified by DataVal. Bromomethane was qualified for all samples with a "UJ" qualifier due to an initial calibration percent relative standard deviation failure. The field duplicate sample of sample 1040SG101 was qualified with a "R" qualifier due to an internal standard area count failure for the following analytes: benzene, bromodichloromethane, 1,2-dichloroethane, 1,2-dichloropropane, cis-1,3-dichloropropene, 1,4-dioxane, heptane, 4-methyl-2-pentanone, toluene, and trichloroethene. Data qualified with a "R" qualifier are not usable for any purpose. Although the bromomethane data were qualified and some of the analytes within the duplicate sample were rejected, the data validation process does not diminish the conclusions from Section 4.2 that VOCs and PAHs were not detected in the soil gas samples above residential ESLs.

4.4 Indoor Cap Assessment

The subgrade floor and wall in the northern corner of Building 1040 serve as a cap where residual petroleum hydrocarbons remain in soil above applicable cleanup levels. The cap limits direct contact of impacted soil to occupants of the building. EKI conducted an indoor cap assessment at Building 1040 on 3 June 2008. The area was inspected for visible cracks, penetrations, and gaps that could potentially allow for direct contact with COCs in soil under the building.[2] Small, hairline cracks were observed in the basement walls and floor. These cracks appeared to be surficial in nature and no gaps or large cracks were observed. Mounting anchors were also observed in the western wall adjacent to the area of residual impact. However, no indication of a complete direct contact pathway with soil was observed. Pipe penetrations through the wall appeared to be sealed.

A sump was observed in the subgrade floor, in the northeastern corner of the building near existing vacuum pumps. This area is approximately 25 feet from the area with residual petroleum hydrocarbons in soil. The sump consists of a grated opening in the concrete floor, with a clay pipe surrounded by soil at the bottom. The Trust is confirming that the pipe is connected to a sewer. EKI reviewed groundwater data in the Corrective Action Plan; no groundwater impact was identified at locations 1065MW10A, 1065MW10B, 1065SB106, and 1065HP16, immediately north of Building 1040. Therefore, no significant environmental impact from the sump is suspected.

[2] Given the low concentrations of VOCs in soil gas (see Table 1), the indoor cap assessment did not focus on potential vapor intrusion pathways.

Building 1040 contains an extensive network of trenches, as well as a significant amount of permanently installed equipment. A full floor inspection was not possible while the equipment is present and the trenches are filled with pipes and conduits. The unobstructed portions of the floor were visually inspected, photographed, and described in field notes. Four 1- to 2-inch diameter concrete cores were observed in the floor; none of these cores were in the area of residual petroleum impact. Other than these cores, within the visible portions of the floor no significant cracks or gaps were observed. The existing floor appears to be serving as an effective cap to limit direct contact with underlying soil.

5.0 CONCLUSIONS

No constituents were detected in soil gas samples collected at Building 1040 above commercial or residential ESLs. Building 1040 is planned to have commercial/industrial land use. The results below residential ESLs indicate that the risks associated with petroleum hydrocarbons and related constituents in soil gas are within acceptable ranges (i.e., less than one-in-a-million) to future Building 1040 occupants. No further action with regard to vapor intrusion mitigation will be taken in response to the results of this sampling event.

The cap assessment indicates that the floor and basement wall in the vicinity of residual petroleum hydrocarbons in soil provide a barrier to prevent direct contact with the underlying soil.

6.0 REFERENCES

DTSC, 2004. *Interim Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air*. December. Revised Feb. 7, 2005.

DTSC and LARWQCB, 2003. *Advisory – Active Soil Gas Investigations*. 28 January 2003.

Erler & Kalinowski, Inc. ("EKI"), 2006. *Buildings 933 and 937 Vapor Intrusion Assessment and Field Sampling Report, Presidio of San Francisco, California*. October.

EKI, 2002. Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater and Surface Water, Presidio of San Francisco, California. October, as revised in May 2006.

EKI, 2008. Building 1040 Indoor Air and CAP Assessment Work Plan, Presidio of San Francisco, California. 13 March.

MACTEC Engineering and Consulting, Inc. ("MACTEC"), 2007a. *Corrective Action Implementation Work Plan, Building 1065 Area, Presidio of San Francisco, California*. 10 August.

MACTEC, 2007b. *Final Corrective Action Plan, Building 1065 Area, Presidio of San Francisco, California*. 24 January.

Regional Water Quality Control Board, San Francisco Bay Region, *Site Cleanup Requirements, Presidio of San Francisco, California,* Order R2-2003-0080.

Tetra Tech, 2001. *Presidio-Wide Quality Assurance Project Plan, Sampling and Analysis Plan, Presidio of San Francisco, California*. April.

US EPA, 2002. *OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance).* November.

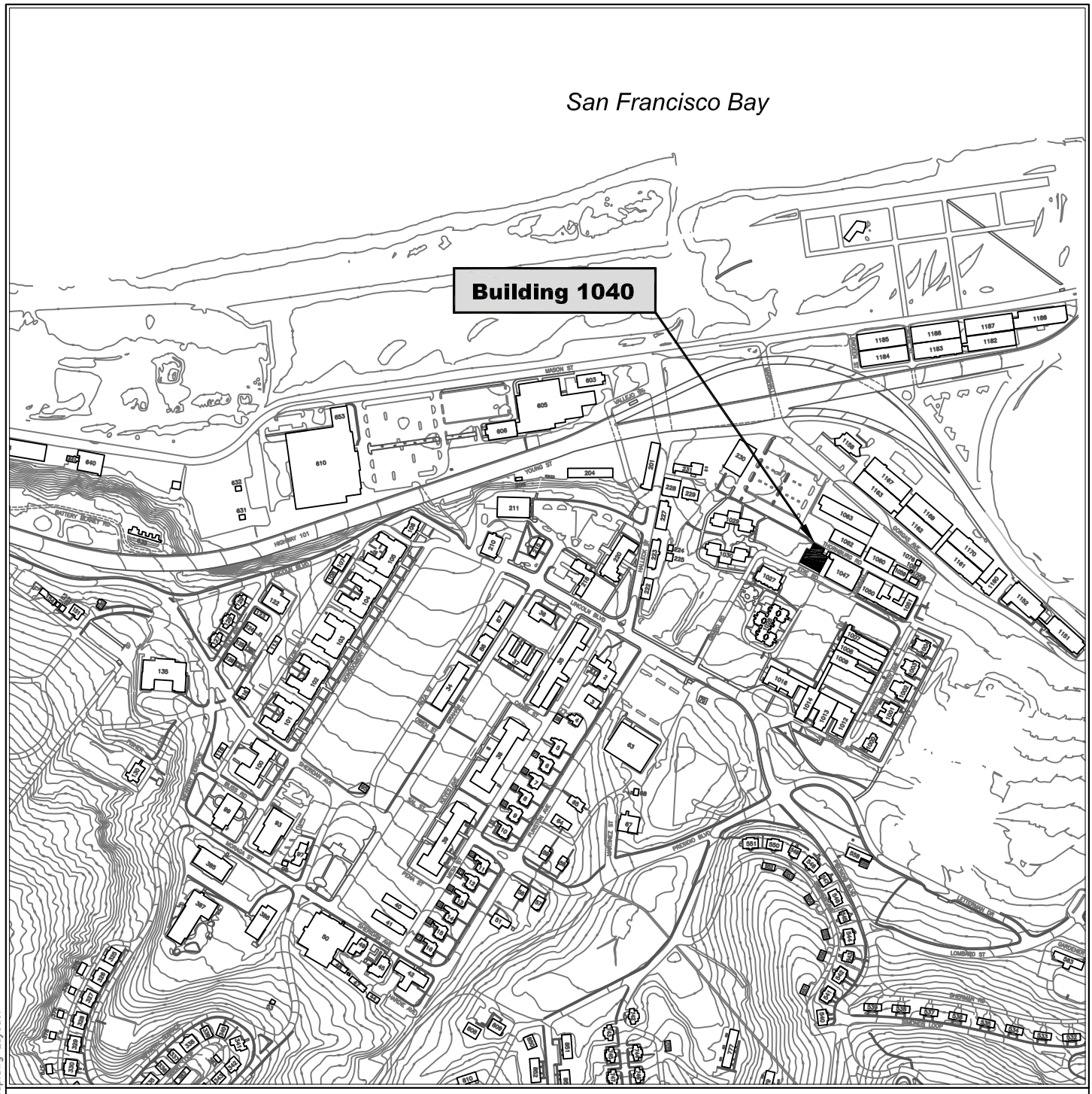
Water Board, 2008. Letter dated 27 March 2008 from Agnes Farres of the Water Board to Eileen Fanelli of the Presidio Trust regarding *Water Board Approval of the March 13, 2008 Addendum to the final Corrective Action Plan, Building 1065 Area and Revised Building 1040 Indoor Air and Cap Assessment Work Plan, Presidio of San Francisco.*

TABLE 1
Analytical Results for Soil Gas Sampling
Building 1040, Presidio of San Francisco
San Francisco, California

	Analytical Results (µg/m^3) (a)									
	VOCs									PAHs
Sample Location	Acetone	4-Ethyltoluene	m,p-Xylene	o-Xylene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	4-Methyl-2-pentanone	Freon 11	Toluene	Naphthalene (b)
1040SG101	<71	<37	<32	<32	<37	<37	<30	<42	<28	<50
Dup	<71	<37	<32	<32	<37	<37	<30	<42	<28 R	<50
1040SG102 (c)	<550	<280	<250	<250	<280	<280	<240	<320	<220	NA (c)
1040SG103	<64	<33	41	<29	<33	<33	28	<38	41	<49
1040SG104	75	52	100	37	43	100	<30	63	110	<49
1040SG105	<72	<37	62	<33	<37	<37	<31	54	67	<49
1040SG106	<67	<35	<31	<31	<35	<35	<29	<40	44	<50
ESLs (residential)	**660,000**	(d)	**21,000**	**21,000**	(d)	(d)	**630,000**	(d)	**63,000**	**72**
ESLs (commercial)	**1,800,000**		**58,000**	**58,000**			**1,800,000**		**180,000**	**240**

Abbreviations:
<30 - Compound not detected at or above indicated laboratory reporting limit
EPA - Environmental Protection Agency
ESLs - Environmental Screening Levels (Water Board, 2007)
µg/m^3 - Micrograms per cubic meter
NA - Not Analyzed
PAHs - Polycyclic Aromatic Hydrocarbons
R - Rejected data
VOCs - Volatile Organic Compounds

Notes:
(a) Soil gas samples for VOCs were collected on 4/18/08 and analyzed by EPA Method TO-15. Soil gas samples for PAHs were collected on 4/19/08 and were analyzed by EPA Method TO-13. With the exception of naphthalene, only detected compounds are tabulated.
(b) Although no naphthalene was detected, naphthalene results are tabulated for informational purposes. No other PAHs were detected above reporting limits.
(c) For sample 1040SG102, high downhole vacuum limited collection of a soil gas sample. Due to the smaller sample volume, the analysis of this sample required higher detection limits than the other samples. No sample was collected for PAH analysis from this location. See text for additional details.
(d) ESLs have not been calculated or published for 4-Ethyltoluene; Freon 11; 1,3,5-Trimethylbenzene; and 1,2,4-Trimethylbenzene.



Reference: Basemap source: Presidio Trust, 2006.

Note:

1. All locations are approximate.

N

0 600 1200

(Approximate Scale in Feet)

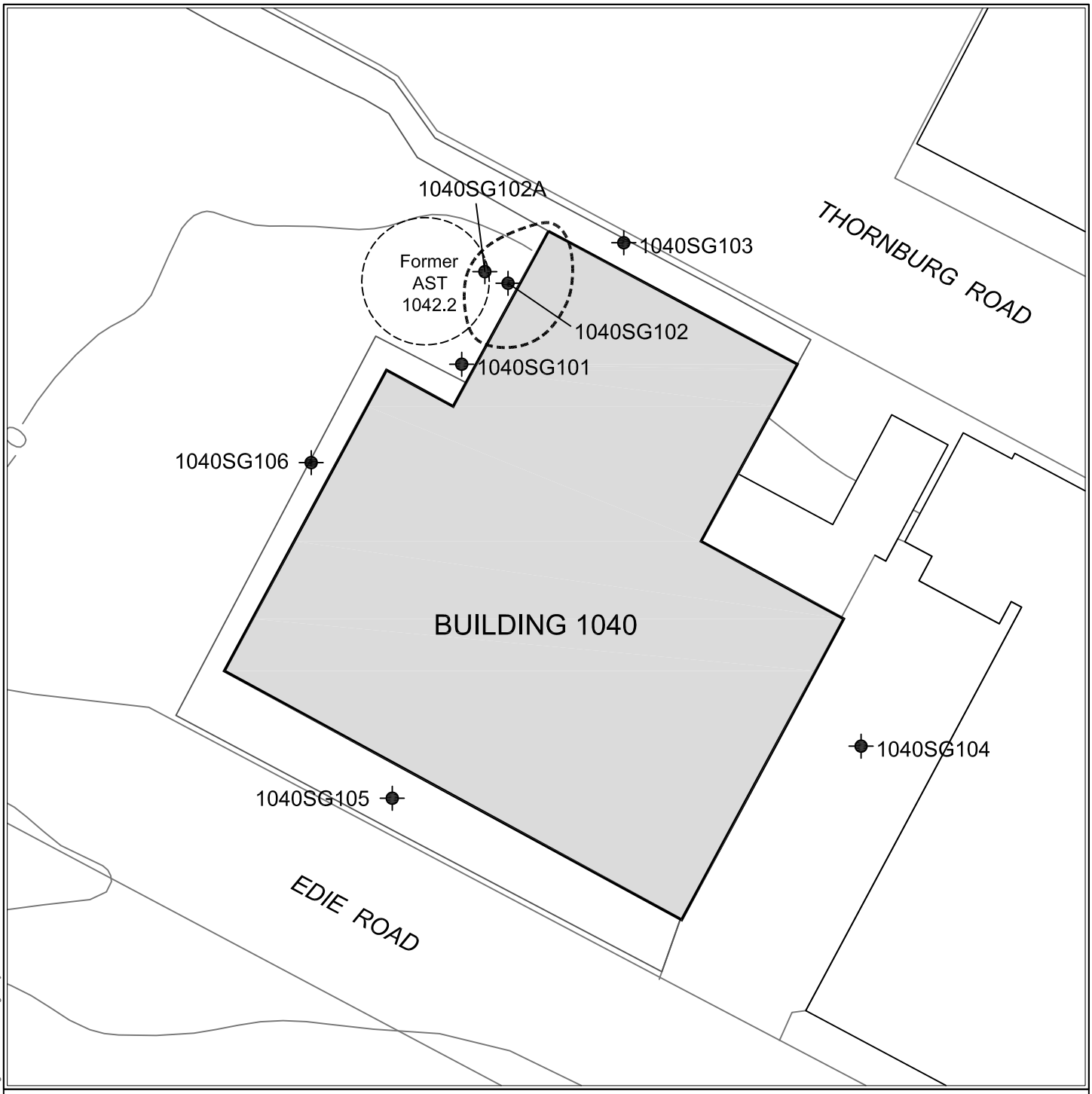
Erler & Kalinowski, Inc.

Site Location Map

Building 1040
The Presidio Trust
San Francisco, CA
May 2008
EKI A70004.19

Figure 1

20080515.11024959 G:\A70004.19\May08\Figure 01 – Site Location Map.dwg Layout1



Reference: Basemap source: Presidio Trust, 2006.

Note:

Soil Gas Sampling Location

Remedial Unit C (RU-C)

Note:

1. All locations are approximate.
2. Sample survey locations from PLS Surveys, Inc., May 2008.

N

0 25 50

(Approximate Scale in Feet)

Erler & Kalinowski, Inc.

Sampling Locations

Building 1040
The Presidio Trust
San Francisco, CA
May 2008
EKI A70004.19

Figure 2

20080520.15521981 G:\A70004.19\May08\Figure 02 – Proposed Sampling Locations.dwg Layout1

APPENDIX A

DATA QUALITY OBJECTIVES TABLES FROM 13 MARCH 2008 WORK PLAN

TABLE 1 - BUILDING 1040 DATA QUALITY OBJECTIVES

Presidio of San Francisco, California

State the Problem	Identify the Decisions	Identify Inputs to the Decisions	Define the Study Boundaries	Develop Decision Rules	Specify Limits on Decision Errors	Optimize the Design
Total petroleum hydrocarbons ("TPH") as diesel and fuel oil have been detected in soil above applicable cleanup levels at the northwestern corner of Building 1040. An indoor air assessment will be conducted to evaluate the potential for vapor intrusion of volatile organic compounds ("VOCs") from the subsurface into indoor air. Inspection of the building slab will also be performed to assess potential for vapor intrusion. Two former above ground storage tanks (1040.1 and 1040.2) in the northwestern corner of the building were used by the Army to store fuel for the boiler operations at Building 1040. The Army removed the tanks and performed remedial actions; however, impacted soil near the building foundation could not be removed without compromising the building's structural integrity. The Trust plans to lease Building 1040 to tenants for recreational/commercial use. This sampling program is proposed to evaluate whether residual subsurface chemicals pose a significant risk to future recreational or commercial building occupants through the vapor intrusion exposure pathway. Access to subslab vapor is limited by slab thickness and access; therefore, perimeter soil gas sampling is proposed.	1. Are residual petroleum hydrocarbons and VOCs from previous Army impacts present in the soil gas at Building 1040? 2. If residual petroleum hydrocarbons and VOCs are present in the soil gas, are they present at concentrations that are potentially a significant risk (i.e., greater than 10^{-6} lifetime incremental cancer risk or a cumulative noncancer hazard index ("HI") >1)? 2. Does the existing slab and foundation of Building 1040 provide a sufficient cap for limiting potential exposure to residual petroleum hydrocarbons in the subsurface? Are improvements or modifications necessary to enhance the cap?	1. Results of previous chemical analysis of soil and groundwater samples. 2. Results of chemical analysis from soil gas investigation. 3. DTSC Guidance. 4. Visual assessment of the building slab.	The study boundaries for the soil gas investigation are near the perimeter of Building 1040 as internal subslab access is not available. The indoor cap assessment will be conducted within Building 1040.	1. If chemical concentrations are detected in soil gas samples, the potential risks associated with those chemicals due to vapor intrusion will be assessed. If potential risks are not significant, then no further vapor intrusion assessment is warranted. 2. If the risk associated with chemicals in soil gas due to vapor intrusion is less than or equal 10^{-6} for carcinogens or a HI of 1 for non-carcinogens, then no indoor cap modifications will be proposed. 3. If chemical concentrations in soil gas pose a risk greater than 10^{-6} for carcinogens or greater than an HI of 1, the Trust can present potential options in the completion report for follow-up assessment during development activities.	1. Field, analytical, and data validation procedures will follow the QAPP (Tetra Tech, 2001), as modified to follow DTSC Guidance. Duplicate soil gas samples will also be collected per the QAPP.	The portion of Building 1040 acting as a cap is approximately 50' x 35', with no interior walls. 1. Six soil gas samples will be collected from locations outside Building 1040, as shown on Figure 2. Subslab vapor samples cannot be collected due to slab thickness and access constraints. Samples will be collected from the soil gas from areas near the known impacted soil and around the perimeter of the building. Probes will be advanced to collect soil gas samples at approximately five feet below ground surface. Soil gas samples will be collected in SUMMA canisters and analyzed by a fixed laboratory for VOCs using US EPA Method TO-15 with SIM, if necessary, and collected on sorbent cartridges and analyzed for PAHs using US EPA Method TO-13a. Duplicates of 10% of the soil gas samples will also be analyzed by US EPA Methods TO-13a and TO-15. Soil gas data will be validated by a data validation firm.

Abbreviations:

DTSC	Department of Toxic Substances Control, California Environmental Protection Agency
DTSC Guidance	*Interim Final, Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air*, DTSC, dated 7 February 2005.
HI	Hazard Index
PAHs	polycyclic aromatic hydrocarbons
QAPP	*Presidio-Wide Quality Assurance Project Plan, Sampling and Analysis Plan*, Tetra Tech EM Inc., dated April 2001.
TPH	total petroleum hydrocarbons
VOCs	volatile organic compounds

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-13A

INVENTORY SHEET

Work Order #: 0804495BR1

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	54
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	55	61
b. Surrogate Recover Summary Form (If Applicable)	62	62
c. Internal Standard Summary Form (If Applicable)	63	64
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	65	245
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	246	253
i. Second Source LCS(Summary + Raw Data)	254	275
j. Extraction Logs	276	276
k. Instrument Run Logs/Software Verification	277	277
l. GC/MS Tune (Results + Raw Data)	278	301
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	302	303
b. Chain-of-Custody Records	304	304
c. Sample Log-In Sheet	305	305
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	306	307
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	308	314
c. Manual Calculations	315	315
d. Canister Dilution Factors	--	--
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	316	316
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	317	317

Comments:

Completed by:

Anne Wilhoit	Anne Wilhoit / Document Control	5/13/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0804495BR1

Work Order Summary

CLIENT:	Mr. Adam Abeles Erler & Kalinowski, Inc. 1870 Ogden Drive Burlingame, CA 94010-5306	**BILL TO:**	Mr. Adam Abeles Erler & Kalinowski, Inc. 1870 Ogden Drive Burlingame, CA 94010-5306
PHONE:	650-292-9100	**P.O. #**	
FAX:	650-552-9012	**PROJECT #**	A70004.19 Presidio--Building 1040
DATE RECEIVED:	04/22/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/29/2008		
DATE REISSUED:	05/09/2008		

FRACTION #	NAME	TEST
08A	1040SG101	Modified TO-13A
08AA	1040SG101 Lab Duplicate	Modified TO-13A
09A	1040SG106	Modified TO-13A
10A	1040SG105	Modified TO-13A
11A	1040SG103	Modified TO-13A
12A	1040SG104	Modified TO-13A
13A	Dup-1-041908	Modified TO-13A
14A	Lab Blank	Modified TO-13A
15A	LCS	Modified TO-13A

CERTIFIED BY: Linda D. Fruman DATE: 05/09/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-13A
Erler & Kalinowski, Inc.
Workorder# 0804495BR1

Six XAD Tube samples were received on April 22, 2008. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

Method modifications taken to run these samples include:

Requirement	***TO-13A***	***ATL Modifications***
Extraction Solvent	10% ether in hexane for PUF; DCM for XAD sorbent. Final extract in hexane.	DCM for PUF/XAD cartridge and XAD sorbent. Final extract in DCM.
Glassware Cleaning	Muffle furnace is utilized.	Solvent cleaning procedure is used.
Extraction technique	Soxhlet extraction	Soxhlet extraction or pressurized fluid extraction (PFE).
Calibration range	0.10 to 2.5 ug/mL	1.0 ug/mL to 160 ug/mL
Field surrogates	Deuterated PAHs are spiked on media prior to sampling.	Performed by client request only.
Solvent Process Blank	Required each analytical batch.	Not performed; each solvent lot is certified prior to use.
Method Blank	<Method Detection Limit	<Reporting Limit

Receiving Notes

Sample identification for sample 1040SG104 was not provided on the sample tag. Therefore the information on the Chain of Custody was used to process and report the sample.

Sample 1040SG104 was not stored at 4 +/-2 degrees C upon arrival at Air Toxics Ltd. The client was notified and the analysis proceeded.

THE WORKORDER WAS REISSUED ON 5/9/08 TO CORRECT SAMPLE COLLECTION DATE OF ALL SAMPLES AND TO CORRECT IDENTIFICATION OF SAMPLE DUP-1-041908.

Analytical Notes

Sampling volume was supplied by the client. A sample volume of 20.5 liters was assumed for all QC samples.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
1040SG101	0804495BR1-08A	4/19/2008	4/22/2008	4/25/2008	6	4/28/2008	3	Good
1040SG101 Lab Duplicate	0804495BR1-08A	4/19/2008	4/22/2008	4/25/2008	6	4/28/2008	3	Good
1040SG106	0804495BR1-09A	4/19/2008	4/22/2008	4/25/2008	6	4/28/2008	3	Good
1040SG105	0804495BR1-10A	4/19/2008	4/22/2008	4/25/2008	6	4/28/2008	3	Good
1040SG103	0804495BR1-11A	4/19/2008	4/22/2008	4/25/2008	6	4/28/2008	3	Good
1040SG104	0804495BR1-12A	4/19/2008	4/22/2008	4/25/2008	6	4/28/2008	3	Good
Dup-1-041908	0804495BR1-13A	4/19/2008	4/22/2008	4/25/2008	6	4/28/2008	3	Good
Lab Blank	0804495BR1-14A	NA	NA	4/25/2008	NA	4/28/2008	3	Good
LCS	0804495BR1-15A	NA	NA	4/25/2008	NA	4/28/2008	3	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: 1040SG101

Lab ID#: 0804495BR1-08A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG101

Lab ID#: 0804495BR1-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p042808**	**Date of Collection: 4/19/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/08 01:35 PM**	
		Date of Extraction: 4/25/08	

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Naphthalene	1.0	50	Not Detected	Not Detected
2-Methylnaphthalene	1.0	50	Not Detected	Not Detected
2-Chloronaphthalene	1.0	50	Not Detected	Not Detected
Acenaphthylene	1.0	50	Not Detected	Not Detected
Acenaphthene	1.0	50	Not Detected	Not Detected
Fluorene	1.0	50	Not Detected	Not Detected
Phenanthrene	1.0	50	Not Detected	Not Detected
Anthracene	1.0	50	Not Detected	Not Detected
Fluoranthene	1.0	50	Not Detected	Not Detected
Pyrene	1.0	50	Not Detected	Not Detected
Chrysene	1.0	50	Not Detected	Not Detected
Benzo(a)anthracene	1.0	50	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	50	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	50	Not Detected	Not Detected
Benzo(a)pyrene	1.0	50	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	50	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	50	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	50	Not Detected	Not Detected

Air Sample Volume(L): 20.1
Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
Fluorene-d10	68	60-120
Pyrene-d10	67	60-120

0007

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042808.d
Lab Smp Id: 0804495B-08A
Inj Date : 28-APR-2008 13:35
Operator : LP Inst ID: msdp.i
Smp Info : ;0804495B-08A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
* 7 1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	247077	40.0000	
* 27 Naphthalene-d8	136	5.925	5.925	(1.000)	646669	40.0000	
* 47 Acenaphthene-d10	164	8.140	8.140	(1.000)	340876	40.0000	
* 71 Phenanthrene-d10	188	9.910	9.910	(1.000)	603196	40.0000	
* 90 Chrysene-d12	240	13.418	13.419	(1.000)	583397	40.0000	
* 99 Perylene-d12	264	15.851	15.861	(1.000)	433145	40.0000	
$ 147 Fluorene-d10	176	8.761	8.761	(1.076)	317273	33.9275	33.93
$ 148 Pyrene-d10	212	11.617	11.618	(0.866)	487208	33.3765	33.38
28 Naphthalene	128	Compound Not Detected.					
33 2-Methylnaphthalene	142	Compound Not Detected.					
39 2-Chloronaphthalene	162	Compound Not Detected.					
45 Acenaphthylene	152	Compound Not Detected.					
48 Acenaphthene*	154	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
57	Fluorene	166	Compound Not Detected.					
72	Phenanthrene	178	Compound Not Detected.					
73	Anthracene	178	Compound Not Detected.					
80	Fluoranthene*	202	Compound Not Detected.					
81	Pyrene	202	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042808.d
Lab Smp Id: 0804495B-08A
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	247077	-4.10
27 Naphthalene-d8	577911	288956	1155822	646669	11.90
47 Acenaphthene-d10	304018	152009	608036	340876	12.12
71 Phenanthrene-d10	495479	247740	990958	603196	21.74
90 Chrysene-d12	468156	234078	936312	583397	24.62
99 Perylene-d12	371605	185802	743210	433145	16.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.85	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

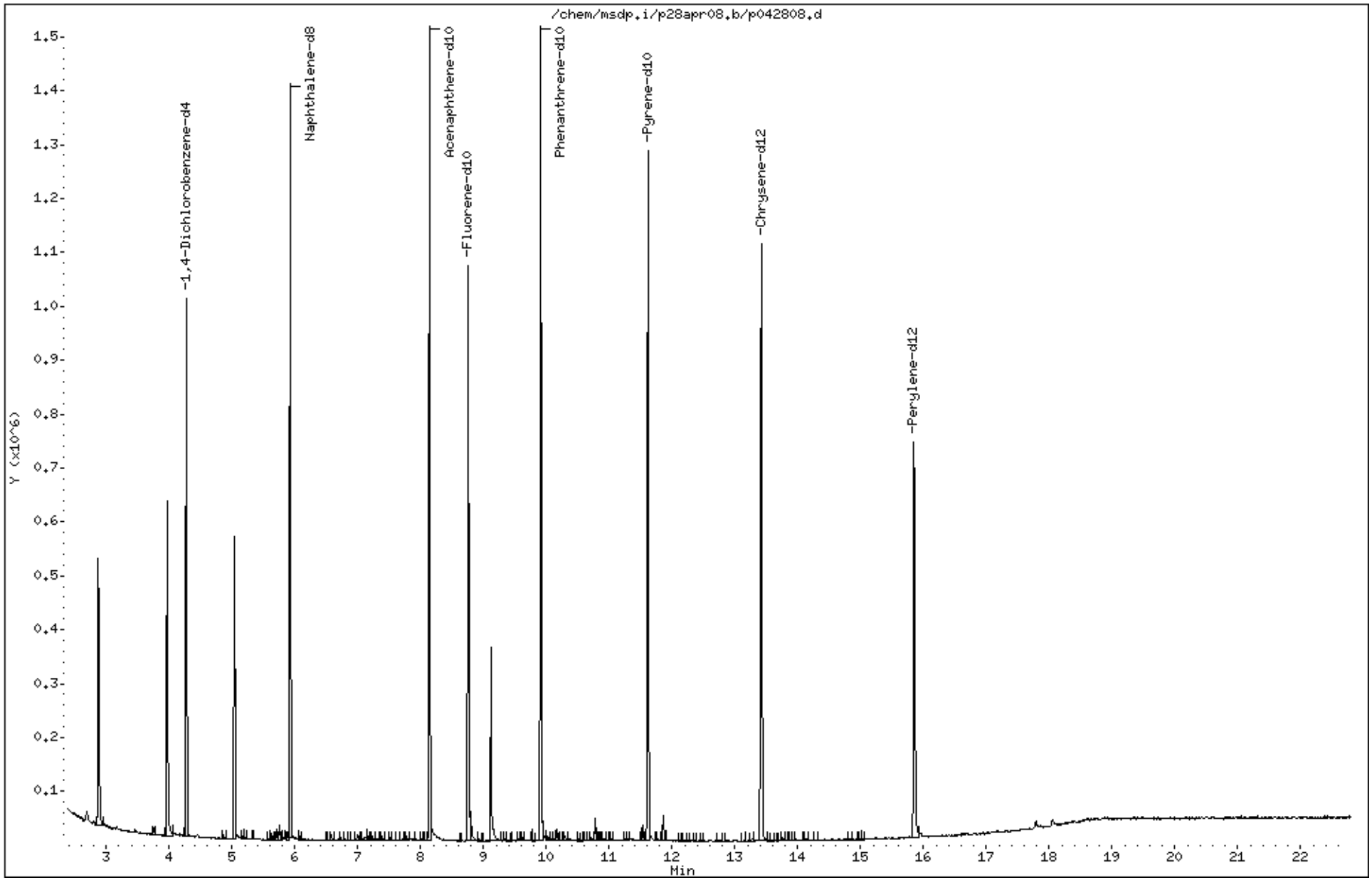
Client Name: Client SDG: p28apr08
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0804495B-08A
Level: LOW Operator: LP
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: PAH.sub
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 147 Fluorene-d10	50.00	33.93	67.85	60-120
$ 148 Pyrene-d10	50.00	33.38	66.75	60-120

0012

Data File: /chem/msdp.i/p28apr08.b/p042808.d
Date : 28-APR-2008 13:35
Client ID:
Sample Info: ;0804495B-08A;
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: 1040SG101 Lab Duplicate

Lab ID#: 0804495BR1-08AA

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG101 Lab Duplicate

Lab ID#: 0804495BR1-08AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p042809**	**Date of Collection: 4/19/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/08 02:05 PM**	
		Date of Extraction: 4/25/08	

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Naphthalene	1.0	50	Not Detected	Not Detected
2-Methylnaphthalene	1.0	50	Not Detected	Not Detected
2-Chloronaphthalene	1.0	50	Not Detected	Not Detected
Acenaphthylene	1.0	50	Not Detected	Not Detected
Acenaphthene	1.0	50	Not Detected	Not Detected
Fluorene	1.0	50	Not Detected	Not Detected
Phenanthrene	1.0	50	Not Detected	Not Detected
Anthracene	1.0	50	Not Detected	Not Detected
Fluoranthene	1.0	50	Not Detected	Not Detected
Pyrene	1.0	50	Not Detected	Not Detected
Chrysene	1.0	50	Not Detected	Not Detected
Benzo(a)anthracene	1.0	50	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	50	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	50	Not Detected	Not Detected
Benzo(a)pyrene	1.0	50	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	50	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	50	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	50	Not Detected	Not Detected

Air Sample Volume(L): 20.1
Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
Fluorene-d10	68	60-120
Pyrene-d10	69	60-120

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042809.d
Lab Smp Id: 0804495B-08AA
Inj Date : 28-APR-2008 14:05
Operator : LP Inst ID: msdp.i
Smp Info : ;0804495B-08AA;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
* 7 1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	263117	40.0000	
* 27 Naphthalene-d8	136	5.925	5.925	(1.000)	674218	40.0000	
* 47 Acenaphthene-d10	164	8.140	8.140	(1.000)	364927	40.0000	
* 71 Phenanthrene-d10	188	9.910	9.910	(1.000)	630405	40.0000	
* 90 Chrysene-d12	240	13.418	13.419	(1.000)	606107	40.0000	
* 99 Perylene-d12	264	15.851	15.861	(1.000)	462223	40.0000	
$ 147 Fluorene-d10	176	8.761	8.761	(1.076)	338801	33.8418	33.84
$ 148 Pyrene-d10	212	11.617	11.618	(0.866)	523087	34.4918	34.49
28 Naphthalene	128	Compound Not Detected.					
33 2-Methylnaphthalene	142	Compound Not Detected.					
39 2-Chloronaphthalene	162	Compound Not Detected.					
45 Acenaphthylene	152	Compound Not Detected.					
48 Acenaphthene*	154	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
57	Fluorene	166	Compound Not Detected.					
72	Phenanthrene	178	Compound Not Detected.					
73	Anthracene	178	Compound Not Detected.					
80	Fluoranthene*	202	Compound Not Detected.					
81	Pyrene	202	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042809.d
Lab Smp Id: 0804495B-08AA
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	263117	2.13
27 Naphthalene-d8	577911	288956	1155822	674218	16.66
47 Acenaphthene-d10	304018	152009	608036	364927	20.03
71 Phenanthrene-d10	495479	247740	990958	630405	27.23
90 Chrysene-d12	468156	234078	936312	606107	29.47
99 Perylene-d12	371605	185802	743210	462223	24.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.85	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 28-Apr-2008 16:59

Air Toxics Ltd.

RECOVERY REPORT

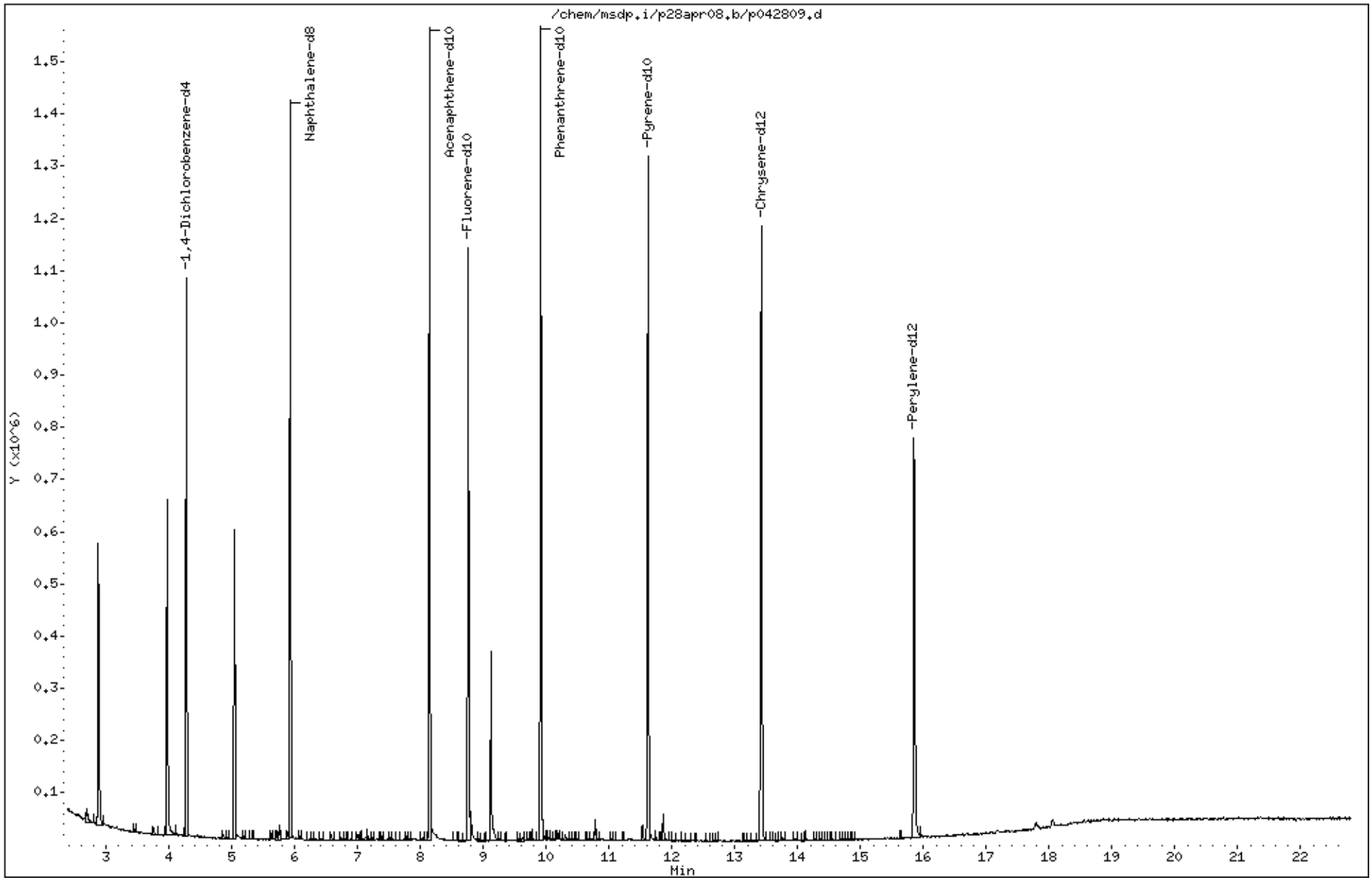
Client Name: Client SDG: p28apr08
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0804495B-08AA
Level: LOW Operator: LP
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: PAH.sub
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 147 Fluorene-d10	50.00	33.84	67.68	60-120
$ 148 Pyrene-d10	50.00	34.49	68.98	60-120

0019

Data File: /chem/msdp.i/p28apr08.b/p042809.d
Date : 28-APR-2008 14:05
Client ID:
Sample Info: ;0804495B-08AA;
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: 1040SG106

Lab ID#: 0804495BR1-09A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG106

Lab ID#: 0804495BR1-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p042810**	**Date of Collection: 4/19/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/08 02:35 PM**	
		Date of Extraction: 4/25/08	

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Naphthalene	1.0	50	Not Detected	Not Detected
2-Methylnaphthalene	1.0	50	Not Detected	Not Detected
2-Chloronaphthalene	1.0	50	Not Detected	Not Detected
Acenaphthylene	1.0	50	Not Detected	Not Detected
Acenaphthene	1.0	50	Not Detected	Not Detected
Fluorene	1.0	50	Not Detected	Not Detected
Phenanthrene	1.0	50	Not Detected	Not Detected
Anthracene	1.0	50	Not Detected	Not Detected
Fluoranthene	1.0	50	Not Detected	Not Detected
Pyrene	1.0	50	Not Detected	Not Detected
Chrysene	1.0	50	Not Detected	Not Detected
Benzo(a)anthracene	1.0	50	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	50	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	50	Not Detected	Not Detected
Benzo(a)pyrene	1.0	50	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	50	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	50	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	50	Not Detected	Not Detected

Air Sample Volume(L): 19.9
Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
Fluorene-d10	72	60-120
Pyrene-d10	72	60-120

0021

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042810.d
Lab Smp Id: 0804495B-09A
Inj Date : 28-APR-2008 14:35
Operator : LP Inst ID: msdp.i
Smp Info : ;0804495B-09A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
* 7 1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	266913	40.0000	
* 27 Naphthalene-d8	136	5.925	5.925	(1.000)	685872	40.0000	
* 47 Acenaphthene-d10	164	8.140	8.140	(1.000)	368148	40.0000	
* 71 Phenanthrene-d10	188	9.910	9.910	(1.000)	648322	40.0000	
* 90 Chrysene-d12	240	13.418	13.419	(1.000)	598515	40.0000	
* 99 Perylene-d12	264	15.861	15.861	(1.000)	466080	40.0000	
$ 147 Fluorene-d10	176	8.761	8.761	(1.076)	363996	36.0404	36.04
$ 148 Pyrene-d10	212	11.618	11.618	(0.866)	536016	35.7926	35.79
28 Naphthalene	128	Compound Not Detected.					
33 2-Methylnaphthalene	142	Compound Not Detected.					
39 2-Chloronaphthalene	162	Compound Not Detected.					
45 Acenaphthylene	152	Compound Not Detected.					
48 Acenaphthene*	154	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
57	Fluorene	166	Compound Not Detected.					
72	Phenanthrene	178	Compound Not Detected.					
73	Anthracene	178	Compound Not Detected.					
80	Fluoranthene*	202	Compound Not Detected.					
81	Pyrene	202	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042810.d
Lab Smp Id: 0804495B-09A
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	266913	3.60
27 Naphthalene-d8	577911	288956	1155822	685872	18.68
47 Acenaphthene-d10	304018	152009	608036	368148	21.09
71 Phenanthrene-d10	495479	247740	990958	648322	30.85
90 Chrysene-d12	468156	234078	936312	598515	27.85
99 Perylene-d12	371605	185802	743210	466080	25.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.86	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 28-Apr-2008 16:59

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: p28apr08
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0804495B-09A
Level: LOW Operator: LP
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: PAH.sub
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 147 Fluorene-d10	50.00	36.04	72.08	60-120
$ 148 Pyrene-d10	50.00	35.79	71.59	60-120

Data File: /chem/msdp.i/p28apr08.b/p042810.d

Date : 28-APR-2008 14:35

Client ID:

Sample Info: ;0804495B-09A;

Volume Injected (uL): 1.0

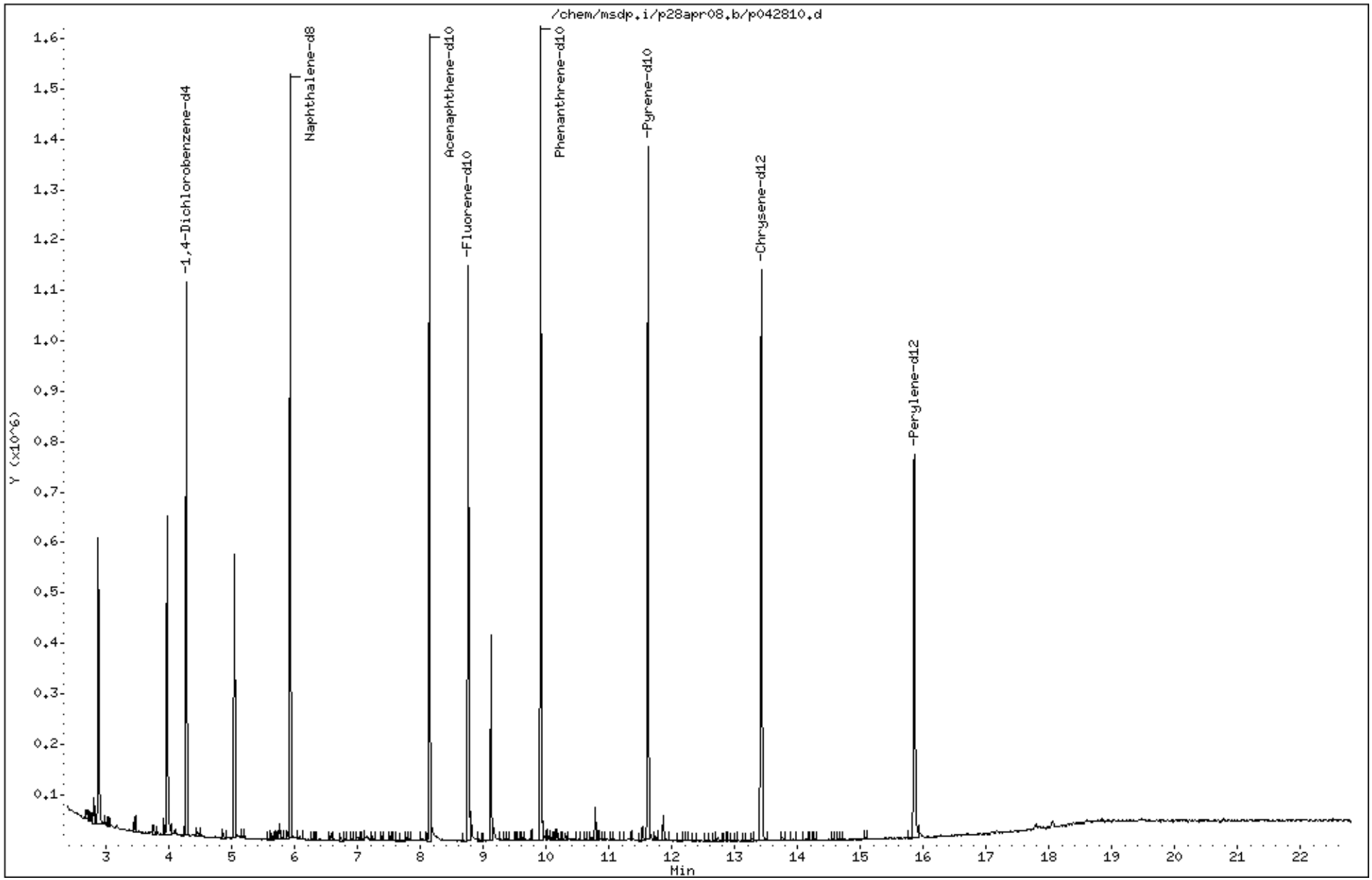
Column phase: DB-5.625

Instrument: msdp.i

Operator: LP

Column diameter: 0.25

0026



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: 1040SG105

Lab ID#: 0804495BR1-10A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG105

Lab ID#: 0804495BR1-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p042811**	**Date of Collection: 4/19/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/08 03:04 PM**	
		Date of Extraction: 4/25/08	

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Naphthalene	1.0	49	Not Detected	Not Detected
2-Methylnaphthalene	1.0	49	Not Detected	Not Detected
2-Chloronaphthalene	1.0	49	Not Detected	Not Detected
Acenaphthylene	1.0	49	Not Detected	Not Detected
Acenaphthene	1.0	49	Not Detected	Not Detected
Fluorene	1.0	49	Not Detected	Not Detected
Phenanthrene	1.0	49	Not Detected	Not Detected
Anthracene	1.0	49	Not Detected	Not Detected
Fluoranthene	1.0	49	Not Detected	Not Detected
Pyrene	1.0	49	Not Detected	Not Detected
Chrysene	1.0	49	Not Detected	Not Detected
Benzo(a)anthracene	1.0	49	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	49	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	49	Not Detected	Not Detected
Benzo(a)pyrene	1.0	49	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	49	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	49	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	49	Not Detected	Not Detected

Air Sample Volume(L): 20.3
Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
Fluorene-d10	69	60-120
Pyrene-d10	70	60-120

0028

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042811.d
Lab Smp Id: 0804495B-10A
Inj Date : 28-APR-2008 15:04
Operator : LP Inst ID: msdp.i
Smp Info : ;0804495B-10A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
* 7 1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	263833	40.0000	
* 27 Naphthalene-d8	136	5.925	5.925	(1.000)	661276	40.0000	
* 47 Acenaphthene-d10	164	8.140	8.140	(1.000)	358050	40.0000	
* 71 Phenanthrene-d10	188	9.910	9.910	(1.000)	636955	40.0000	
* 90 Chrysene-d12	240	13.418	13.419	(1.000)	608375	40.0000	
* 99 Perylene-d12	264	15.851	15.861	(1.000)	467198	40.0000	
$ 147 Fluorene-d10	176	8.761	8.761	(1.076)	339062	34.5184	34.52
$ 148 Pyrene-d10	212	11.617	11.618	(0.866)	532057	34.9525	34.95
28 Naphthalene	128	Compound Not Detected.					
33 2-Methylnaphthalene	142	Compound Not Detected.					
39 2-Chloronaphthalene	162	Compound Not Detected.					
45 Acenaphthylene	152	Compound Not Detected.					
48 Acenaphthene*	154	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
57	Fluorene	166	Compound Not Detected.					
72	Phenanthrene	178	Compound Not Detected.					
73	Anthracene	178	Compound Not Detected.					
80	Fluoranthene*	202	Compound Not Detected.					
81	Pyrene	202	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042811.d
Lab Smp Id: 0804495B-10A
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	263833	2.41
27 Naphthalene-d8	577911	288956	1155822	661276	14.43
47 Acenaphthene-d10	304018	152009	608036	358050	17.77
71 Phenanthrene-d10	495479	247740	990958	636955	28.55
90 Chrysene-d12	468156	234078	936312	608375	29.95
99 Perylene-d12	371605	185802	743210	467198	25.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	-0.01
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.85	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 28-Apr-2008 16:59

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: p28apr08
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0804495B-10A
Level: LOW Operator: LP
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: PAH.sub
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 147 Fluorene-d10	50.00	34.52	69.04	60-120
$ 148 Pyrene-d10	50.00	34.95	69.90	60-120

Data File: /chem/msdp.i/p28apr08.b/p042811.d

Date : 28-APR-2008 15:04

Client ID:

Sample Info: ;0804495B-10A;

Volume Injected (uL): 1.0

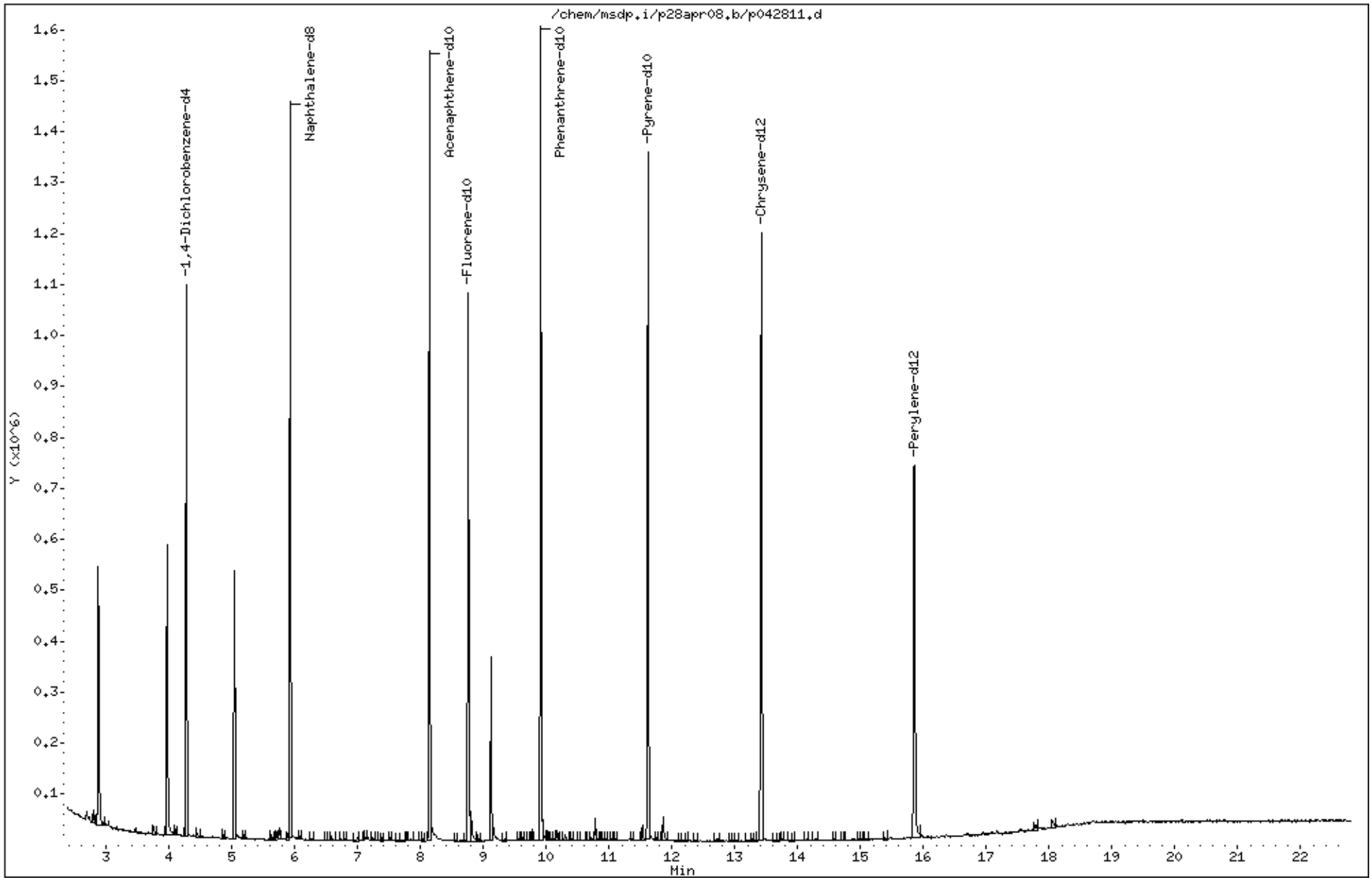
Column phase: DB-5.625

Instrument: msdp.i

Operator: LP

Column diameter: 0.25

0033



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: 1040SG103

Lab ID#: 0804495BR1-11A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG103

Lab ID#: 0804495BR1-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p042812**	**Date of Collection: 4/19/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/08 03:34 PM**	
		Date of Extraction: 4/25/08	

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Naphthalene	1.0	49	Not Detected	Not Detected
2-Methylnaphthalene	1.0	49	Not Detected	Not Detected
2-Chloronaphthalene	1.0	49	Not Detected	Not Detected
Acenaphthylene	1.0	49	Not Detected	Not Detected
Acenaphthene	1.0	49	Not Detected	Not Detected
Fluorene	1.0	49	Not Detected	Not Detected
Phenanthrene	1.0	49	Not Detected	Not Detected
Anthracene	1.0	49	Not Detected	Not Detected
Fluoranthene	1.0	49	Not Detected	Not Detected
Pyrene	1.0	49	Not Detected	Not Detected
Chrysene	1.0	49	Not Detected	Not Detected
Benzo(a)anthracene	1.0	49	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	49	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	49	Not Detected	Not Detected
Benzo(a)pyrene	1.0	49	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	49	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	49	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	49	Not Detected	Not Detected

Air Sample Volume(L): 20.3
Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
Fluorene-d10	67	60-120
Pyrene-d10	73	60-120

0035

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042812.d
Lab Smp Id: 0804495B-11A
Inj Date : 28-APR-2008 15:34
Operator : LP Inst ID: msdp.i
Smp Info : ;0804495B-11A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
* 7 1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	265954	40.0000	
* 27 Naphthalene-d8	136	5.925	5.925	(1.000)	680043	40.0000	
* 47 Acenaphthene-d10	164	8.140	8.140	(1.000)	369647	40.0000	
* 71 Phenanthrene-d10	188	9.910	9.910	(1.000)	641146	40.0000	
* 90 Chrysene-d12	240	13.418	13.419	(1.000)	622003	40.0000	
* 99 Perylene-d12	264	15.851	15.861	(1.000)	467299	40.0000	
$ 147 Fluorene-d10	176	8.761	8.761	(1.076)	338038	33.3344	33.33
$ 148 Pyrene-d10	212	11.617	11.618	(0.866)	567100	36.4383	36.44
28 Naphthalene	128	Compound Not Detected.					
33 2-Methylnaphthalene	142	Compound Not Detected.					
39 2-Chloronaphthalene	162	Compound Not Detected.					
45 Acenaphthylene	152	Compound Not Detected.					
48 Acenaphthene*	154	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
57	Fluorene	166	Compound Not Detected.					
72	Phenanthrene	178	Compound Not Detected.					
73	Anthracene	178	Compound Not Detected.					
80	Fluoranthene*	202	Compound Not Detected.					
81	Pyrene	202	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042812.d
Lab Smp Id: 0804495B-11A
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	265954	3.23
27 Naphthalene-d8	577911	288956	1155822	680043	17.67
47 Acenaphthene-d10	304018	152009	608036	369647	21.59
71 Phenanthrene-d10	495479	247740	990958	641146	29.40
90 Chrysene-d12	468156	234078	936312	622003	32.86
99 Perylene-d12	371605	185802	743210	467299	25.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.85	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 28-Apr-2008 16:59

Air Toxics Ltd.

RECOVERY REPORT

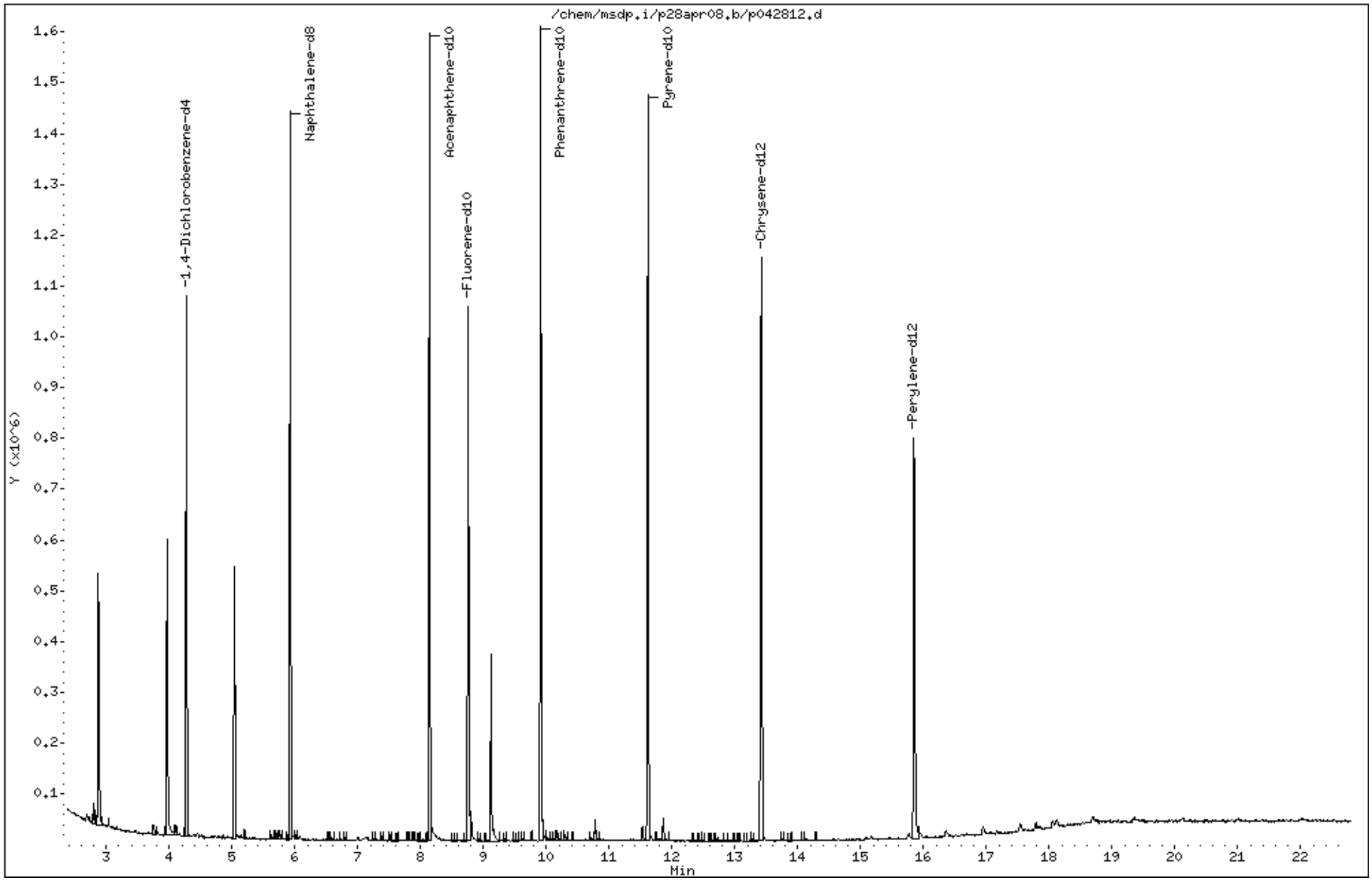
Client Name: Client SDG: p28apr08
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0804495B-11A
Level: LOW Operator: LP
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: PAH.sub
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 147 Fluorene-d10	50.00	33.33	66.67	60-120
$ 148 Pyrene-d10	50.00	36.44	72.88	60-120

0040

Data File: /chem/msdp.i/p28apr08.b/p042812.d
Date : 28-APR-2008 15:34
Client ID:
Sample Info: ;0804495B-11A;
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: 1040SG104

Lab ID#: 0804495BR1-12A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG104

Lab ID#: 0804495BR1-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p042813**	**Date of Collection: 4/19/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/08 04:04 PM**	
		Date of Extraction: 4/25/08	

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Naphthalene	1.0	49	Not Detected	Not Detected
2-Methylnaphthalene	1.0	49	Not Detected	Not Detected
2-Chloronaphthalene	1.0	49	Not Detected	Not Detected
Acenaphthylene	1.0	49	Not Detected	Not Detected
Acenaphthene	1.0	49	Not Detected	Not Detected
Fluorene	1.0	49	Not Detected	Not Detected
Phenanthrene	1.0	49	Not Detected	Not Detected
Anthracene	1.0	49	Not Detected	Not Detected
Fluoranthene	1.0	49	Not Detected	Not Detected
Pyrene	1.0	49	Not Detected	Not Detected
Chrysene	1.0	49	Not Detected	Not Detected
Benzo(a)anthracene	1.0	49	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	49	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	49	Not Detected	Not Detected
Benzo(a)pyrene	1.0	49	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	49	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	49	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	49	Not Detected	Not Detected

Air Sample Volume(L): 20.2
Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
Fluorene-d10	88	60-120
Pyrene-d10	78	60-120

0042

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042813.d
Lab Smp Id: 0804495B-12A
Inj Date : 28-APR-2008 16:04
Operator : LP Inst ID: msdp.i
Smp Info : ;0804495B-12A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
* 7 1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	255927	40.0000	
* 27 Naphthalene-d8	136	5.925	5.925	(1.000)	664872	40.0000	
* 47 Acenaphthene-d10	164	8.140	8.140	(1.000)	355807	40.0000	
* 71 Phenanthrene-d10	188	9.910	9.910	(1.000)	635062	40.0000	
* 90 Chrysene-d12	240	13.418	13.419	(1.000)	605432	40.0000	
* 99 Perylene-d12	264	15.861	15.861	(1.000)	456941	40.0000	
$ 147 Fluorene-d10	176	8.761	8.761	(1.076)	427079	43.7531	43.75
$ 148 Pyrene-d10	212	11.618	11.618	(0.866)	594059	39.2153	39.22
28 Naphthalene	128	Compound Not Detected.					
33 2-Methylnaphthalene	142	Compound Not Detected.					
39 2-Chloronaphthalene	162	Compound Not Detected.					
45 Acenaphthylene	152	Compound Not Detected.					
48 Acenaphthene*	154	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
57	Fluorene	166	Compound Not Detected.					
72	Phenanthrene	178	Compound Not Detected.					
73	Anthracene	178	Compound Not Detected.					
80	Fluoranthene*	202	Compound Not Detected.					
81	Pyrene	202	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042813.d
Lab Smp Id: 0804495B-12A
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	255927	-0.66
27 Naphthalene-d8	577911	288956	1155822	664872	15.05
47 Acenaphthene-d10	304018	152009	608036	355807	17.03
71 Phenanthrene-d10	495479	247740	990958	635062	28.17
90 Chrysene-d12	468156	234078	936312	605432	29.32
99 Perylene-d12	371605	185802	743210	456941	22.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.86	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 28-Apr-2008 16:59

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: p28apr08
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0804495B-12A
Level: LOW Operator: LP
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: PAH.sub
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 147 Fluorene-d10	50.00	43.75	87.51	60-120
$ 148 Pyrene-d10	50.00	39.22	78.43	60-120

Data File: /chem/msdp.i/p28apr08.b/p042813.d

Date : 28-APR-2008 16:04

Client ID:

Sample Info: ;0804495B-12A;

Volume Injected (uL): 1.0

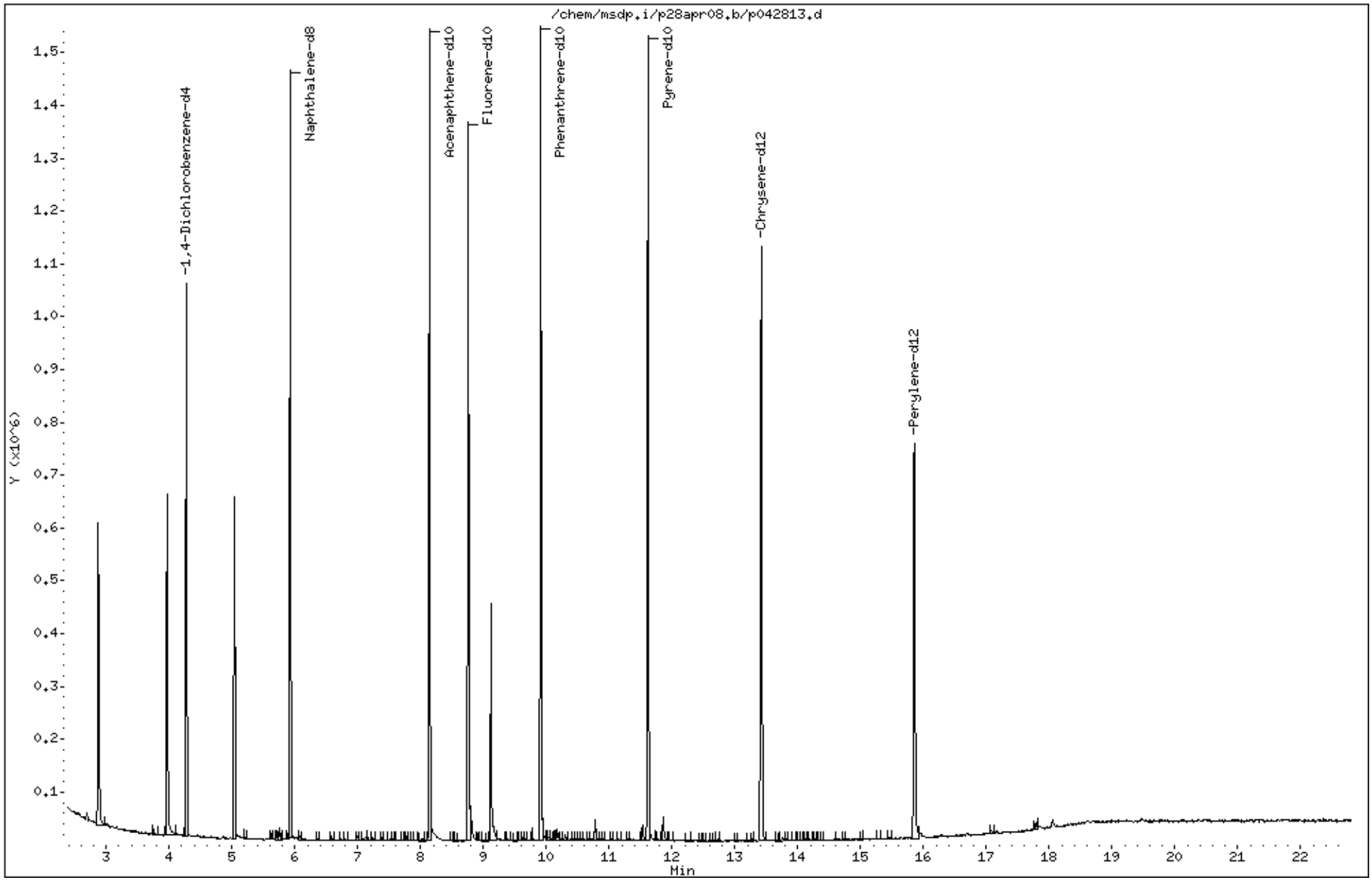
Column phase: DB-5.625

Instrument: msdp.i

Operator: LP

Column diameter: 0.25

0047



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: Dup-1-041908

Lab ID#: 0804495BR1-13A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Dup-1-041908

Lab ID#: 0804495BR1-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p042814**	**Date of Collection: 4/19/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/08 04:34 PM**	
		Date of Extraction: 4/25/08	

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Naphthalene	1.0	50	Not Detected	Not Detected
2-Methylnaphthalene	1.0	50	Not Detected	Not Detected
2-Chloronaphthalene	1.0	50	Not Detected	Not Detected
Acenaphthylene	1.0	50	Not Detected	Not Detected
Acenaphthene	1.0	50	Not Detected	Not Detected
Fluorene	1.0	50	Not Detected	Not Detected
Phenanthrene	1.0	50	Not Detected	Not Detected
Anthracene	1.0	50	Not Detected	Not Detected
Fluoranthene	1.0	50	Not Detected	Not Detected
Pyrene	1.0	50	Not Detected	Not Detected
Chrysene	1.0	50	Not Detected	Not Detected
Benzo(a)anthracene	1.0	50	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	50	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	50	Not Detected	Not Detected
Benzo(a)pyrene	1.0	50	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	50	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	50	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	50	Not Detected	Not Detected

Air Sample Volume(L): 19.8
Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
Fluorene-d10	73	60-120
Pyrene-d10	73	60-120

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042814.d
Lab Smp Id: 0804495B-13A
Inj Date : 28-APR-2008 16:34
Operator : LP Inst ID: msdp.i
Smp Info : ;0804495B-13A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
* 7 1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	237833	40.0000	
* 27 Naphthalene-d8	136	5.925	5.925	(1.000)	610553	40.0000	
* 47 Acenaphthene-d10	164	8.140	8.140	(1.000)	323250	40.0000	
* 71 Phenanthrene-d10	188	9.910	9.910	(1.000)	570261	40.0000	
* 90 Chrysene-d12	240	13.418	13.419	(1.000)	531664	40.0000	
* 99 Perylene-d12	264	15.851	15.861	(1.000)	395919	40.0000	
$ 147 Fluorene-d10	176	8.761	8.761	(1.076)	322939	36.4164	36.42
$ 148 Pyrene-d10	212	11.618	11.618	(0.866)	486983	36.6073	36.61
28 Naphthalene	128	Compound Not Detected.					
33 2-Methylnaphthalene	142	Compound Not Detected.					
39 2-Chloronaphthalene	162	Compound Not Detected.					
45 Acenaphthylene	152	Compound Not Detected.					
48 Acenaphthene*	154	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
57	Fluorene	166	Compound Not Detected.					
72	Phenanthrene	178	Compound Not Detected.					
73	Anthracene	178	Compound Not Detected.					
80	Fluoranthene*	202	Compound Not Detected.					
81	Pyrene	202	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042814.d
Lab Smp Id: 0804495B-13A
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	237833	-7.69
27 Naphthalene-d8	577911	288956	1155822	610553	5.65
47 Acenaphthene-d10	304018	152009	608036	323250	6.33
71 Phenanthrene-d10	495479	247740	990958	570261	15.09
90 Chrysene-d12	468156	234078	936312	531664	13.57
99 Perylene-d12	371605	185802	743210	395919	6.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.85	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

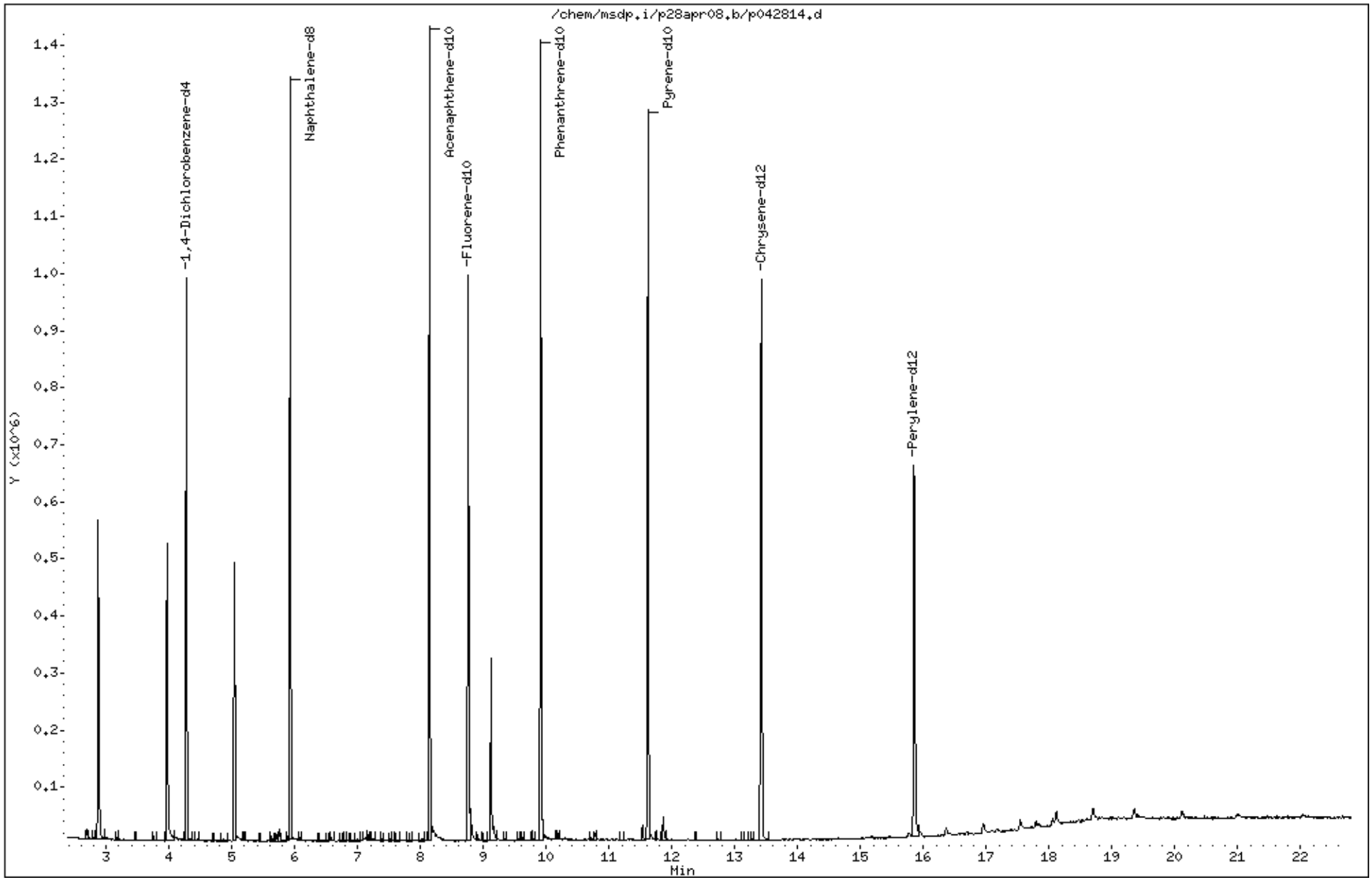
Client Name: Client SDG: p28apr08
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0804495B-13A
Level: LOW Operator: LP
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: PAH.sub
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 147 Fluorene-d10	50.00	36.42	72.83	60-120
$ 148 Pyrene-d10	50.00	36.61	73.21	60-120

0054

Data File: /chem/msdp.i/p28apr08.b/p042814.d
Date : 28-APR-2008 16:34
Client ID:
Sample Info: ;0804495B-13A;
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804495BR1-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p042806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/08 12:36 PM**	
		Date of Extraction: 4/25/08	

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Naphthalene	1.0	49	Not Detected	Not Detected
2-Methylnaphthalene	1.0	49	Not Detected	Not Detected
2-Chloronaphthalene	1.0	49	Not Detected	Not Detected
Acenaphthylene	1.0	49	Not Detected	Not Detected
Acenaphthene	1.0	49	Not Detected	Not Detected
Fluorene	1.0	49	Not Detected	Not Detected
Phenanthrene	1.0	49	Not Detected	Not Detected
Anthracene	1.0	49	Not Detected	Not Detected
Fluoranthene	1.0	49	Not Detected	Not Detected
Pyrene	1.0	49	Not Detected	Not Detected
Chrysene	1.0	49	Not Detected	Not Detected
Benzo(a)anthracene	1.0	49	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	49	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	49	Not Detected	Not Detected
Benzo(a)pyrene	1.0	49	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	49	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	49	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	49	Not Detected	Not Detected

Air Sample Volume(L): 20.5
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	82	60-120
Pyrene-d10	77	60-120

0056

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042806.d
Lab Smp Id: 0804495B-Blank Client Smp ID: Lab Blank
Inj Date : 28-APR-2008 12:36
Operator : LP Inst ID: msdp.i
Smp Info : ;0804495B-Blank;Lab Blank
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
* 7 1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	252227	40.0000	
* 27 Naphthalene-d8	136	5.925	5.925	(1.000)	655009	40.0000	
* 47 Acenaphthene-d10	164	8.140	8.140	(1.000)	347134	40.0000	
* 71 Phenanthrene-d10	188	9.910	9.910	(1.000)	604054	40.0000	
* 90 Chrysene-d12	240	13.418	13.419	(1.000)	574878	40.0000	
* 99 Perylene-d12	264	15.851	15.861	(1.000)	434591	40.0000	
$ 147 Fluorene-d10	176	8.761	8.761	(1.076)	391025	41.0603	41.06
$ 148 Pyrene-d10	212	11.618	11.618	(0.866)	556653	38.6990	38.70
28 Naphthalene	128	Compound Not Detected.					
33 2-Methylnaphthalene	142	Compound Not Detected.					
39 2-Chloronaphthalene	162	Compound Not Detected.					
45 Acenaphthylene	152	Compound Not Detected.					
48 Acenaphthene*	154	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
57	Fluorene	166	Compound Not Detected.					
72	Phenanthrene	178	Compound Not Detected.					
73	Anthracene	178	Compound Not Detected.					
80	Fluoranthene*	202	Compound Not Detected.					
81	Pyrene	202	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042806.d
Lab Smp Id: 0804495B-Blank
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Client Smp ID: Lab Blank
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	252227	-2.10
27 Naphthalene-d8	577911	288956	1155822	655009	13.34
47 Acenaphthene-d10	304018	152009	608036	347134	14.18
71 Phenanthrene-d10	495479	247740	990958	604054	21.91
90 Chrysene-d12	468156	234078	936312	574878	22.80
99 Perylene-d12	371605	185802	743210	434591	16.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.85	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: p28apr08
Sample Matrix: GAS
Fraction: SV
Lab Smp Id: 0804495B-Blank
Client Smp ID: Lab Blank
Level: LOW
Operator: LP
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: PAH100.spk
Quant Type: ISTD
Sublist File: PAH.sub
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 147 Fluorene-d10	50.00	41.06	82.12	60-120
$ 148 Pyrene-d10	50.00	38.70	77.40	60-120

Data File: /chem/msdp.i/p28apr08.b/p042806.d

Date : 28-APR-2008 12:36

Client ID: Lab Blank

Sample Info: ;0804495B-Blank;Lab Blank

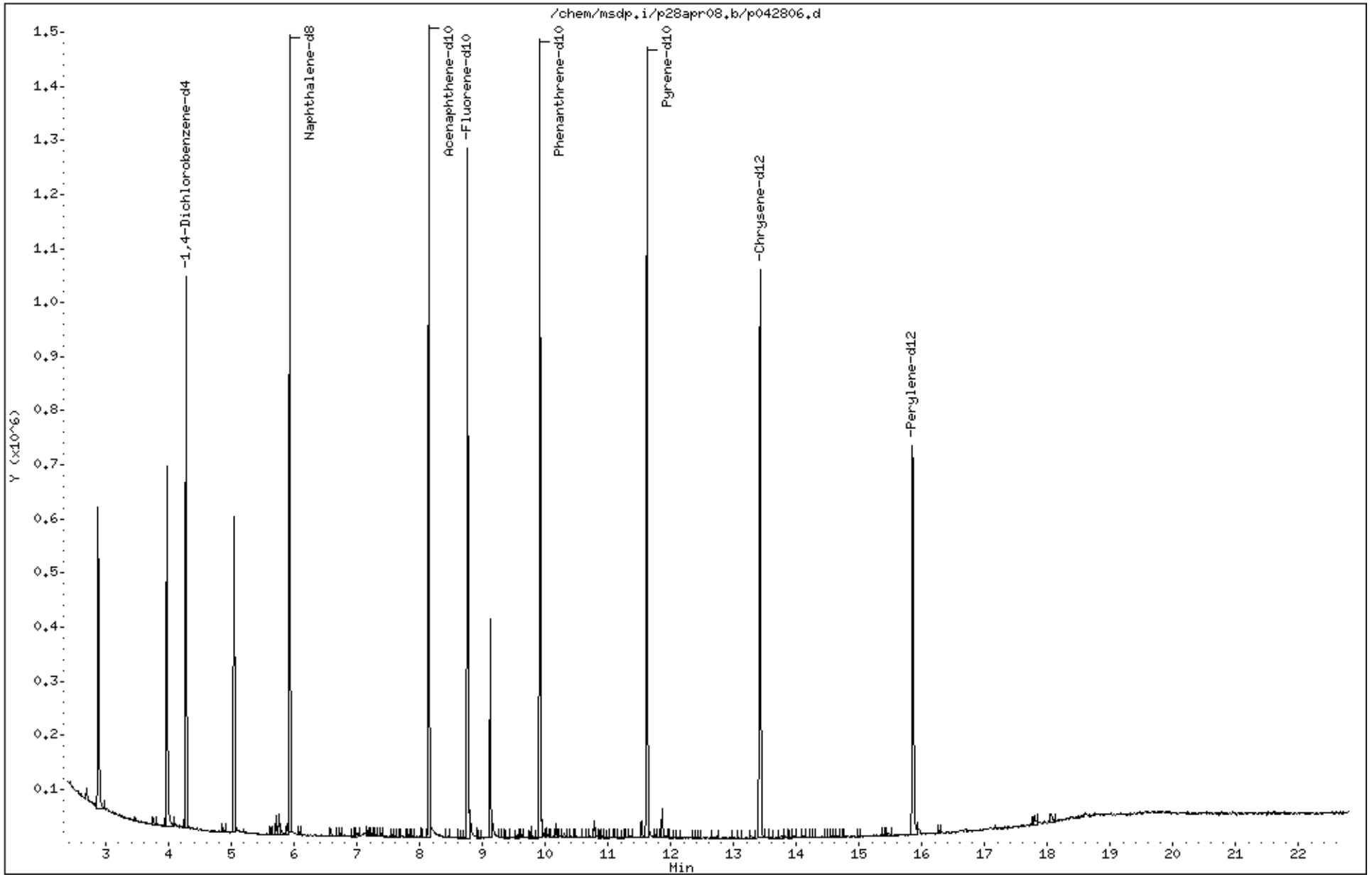
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdp.i

Operator: LP

Column diameter: 0.25



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0804495BR1

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		Pyrene-d10	#	Fluorene-d10	#		#		#	TOTAL OUT
01	1040SG101	67		68						0
02	1040SG101 Lab Duplicate	69		68						0
03	1040SG106	72		72						0
04	1040SG105	70		69						0
05	1040SG103	73		67						0
06	1040SG104	78		88						0
07	Dup-1-041908	73		73						0
08	Lab Blank	77		82						0
09	LCS	74		75						0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

Pyrene-d10 60 - 120
Fluorene-d10 60 - 120

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-13A GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0804495BR1

Lab File ID: p042803.d | Date Analyzed: 04/28/2008

Instrument ID: msdp.i | Time Analyzed: 10:57 AM

		Naphthalene-d8 Area	#	RT	#	Acenaphthene-d12 Area	#	RT	#	Phenanthrene-d10 Area	#	RT	#
	24-HOUR STD	577911		5.92		304018		8.14		495479		9.91	
	UPPER LIMIT	1155822		06.25		608036		08.47		990958		10.24	
	LOWER LIMIT	288956		05.59		152009		07.81		247740		09.58	
	CLIENT SAMPLE NO												
01	1040SG101	646669		5.92		340876		8.14		603196		9.91	
02	1040SG101 Lab Duplicate	674218		5.92		364927		8.14		630405		9.91	
03	1040SG106	685872		5.92		368148		8.14		648322		9.91	
04	1040SG105	661276		5.92		358050		8.14		636955		9.91	
05	1040SG103	680043		5.92		369647		8.14		641146		9.91	
06	1040SG104	664872		5.92		355807		8.14		635062		9.91	
07	Dup-1-041908	610553		5.92		323250		8.14		570261		9.91	
08	Lab Blank	655009		5.92		347134		8.14		604054		9.91	
09	LCS	663974		5.92		358233		8.14		611178		9.91	
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'Area Upper Limit=+200% of internal standard area'

'Area Lower Limit=-50% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-13A GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0804495BR1

Lab File ID: p042803.d | Date Analyzed: 04/28/2008

Instrument ID: msdp.i | Time Analyzed: 10:57 AM

		Perylene-d12 Area	#	RT	#	Chrysene-d12 Area	#	RT	#	1,4-Dichlorobenzene-d4 Area	#	RT	#
	24-HOUR STD	371605		15.86		468156		13.42		257636		4.27	
	UPPER LIMIT	743210		16.19		936312		13.75		515272		04.60	
	LOWER LIMIT	185802		15.53		234078		13.09		128818		03.94	
	CLIENT SAMPLE NO												
01	1040SG101	433145		15.85		583397		13.42		247077		4.27	
02	1040SG101 Lab Duplicate	462223		15.85		606107		13.42		263117		4.27	
03	1040SG106	466080		15.86		598515		13.42		266913		4.27	
04	1040SG105	467198		15.85		608375		13.42		263833		4.27	
05	1040SG103	467299		15.85		622003		13.42		265954		4.27	
06	1040SG104	456941		15.86		605432		13.42		255927		4.27	
07	Dup-1-041908	395919		15.85		531664		13.42		237833		4.27	
08	Lab Blank	434591		15.85		574878		13.42		252227		4.27	
09	LCS	464840		15.86		594441		13.42		259247		4.27	
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'Area Upper Limit=+200% of internal standard area'

'Area Lower Limit=-50% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdp.i/p16apr08.b/p041611.d
Level 2: /chem/msdp.i/p07mar08.b/p030705.d
Level 3: /chem/msdp.i/p07mar08.b/p030706.d
Level 4: /chem/msdp.i/p07mar08.b/p030707.d
Level 5: /chem/msdp.i/p07mar08.b/p030708.d
Level 6: /chem/msdp.i/p16apr08.b/p041612.d
Level 7: /chem/msdp.i/p07mar08.b/p030710.d
Level 8: /chem/msdp.i/p16apr08.b/p041613.d
Level 9: /chem/msdp.i/p21dec07.b/p122112.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	80.000 Level 7	100.000 Level 8	160.000 Level 9	___ RRF	% RSD
3 Phenol*	+++++	1.59241	1.62089	1.54027	1.38216	1.28603	1.12127	1.05257	0.89101	1.31083	20.645
4 bis(2-Chloroethyl)ether	1.19251	1.18772	1.20121	1.11783	1.02812	0.97098	0.88408	0.81796	0.74127	1.01574	17.038
5 2-Chlorophenol	+++++	1.08405	1.11140	1.06863	0.97368	0.93462	0.85227	0.79274	0.70399	0.94017	15.721
6 1,3-Dichlorobenzene	1.15415	1.18961	1.15087	1.08095	0.99348	0.94238	0.84398	0.77293	0.67018	0.97762	18.881
9 1,4-Dichlorobenzene*	1.29865	1.22780	1.20644	1.12390	1.00740	0.97145	0.86245	0.79701	0.68967	1.02053	20.570
10 Benzyl Alcohol	0.71582	0.75014	0.76210	0.75711	0.71564	0.66003	0.60932	0.57906	0.50144	0.67230	13.622
11 1,2-Dichlorobenzene	1.07411	1.12043	1.11107	1.04405	0.94402	0.90865	0.82273	0.76447	0.65595	0.93838	17.545

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
12 2-Methylphenol	+++++	1.08392	1.06256	1.02145	0.96603	0.89983			
	0.81925	0.76282	0.67128				0.91089	16.392	
13 bis(2-Chloroisopropyl)ether	2.10372	2.15149	2.14547	2.01900	1.89744	1.80411			
	1.65677	1.55828	1.36446				1.85564	15.163	
14 4-Methylphenol	+++++	1.14014	1.12142	1.07380	1.01685	0.94756			
	0.86385	0.81709	0.68730				0.95850	16.677	
15 N-Nitrosodipropylamine**	0.80302	0.82646	0.83619	0.82483	0.76053	0.71608			
	0.67425	0.61197	0.53117				0.73161	14.704	
16 Hexachloroethane	0.38438	0.45238	0.46616	0.43202	0.39865	0.38722			
	0.34504	0.31564	0.26712				0.38318	16.964	
18 Nitrobenzene	0.41569	0.47875	0.47093	0.45294	0.45261	0.44675			
	0.43626	0.41808	0.40325				0.44170	5.795	
19 Isophorone	0.69979	0.76724	0.77640	0.76881	0.77098	0.74700			
	0.73542	0.72876	0.70724				0.74463	3.843	
20 2-Nitrophenol*	+++++	0.18520	0.20552	0.20872	0.21970	0.22078			
	0.21123	0.21036	0.19261				0.20676	5.972	
21 2,4-Dimethylphenol	+++++	0.38471	0.39954	0.37582	0.36451	0.36058			
	0.34646	0.32903	0.31165				0.35904	8.098	
22 N-nitrosodimethylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
23 bis(2-Chloroethoxy)methane	0.52755	0.54017	0.54384	0.51221	0.51180	0.50232		
	0.46850	0.45345	0.43673				0.49962	7.671
24 Benzoic Acid	+++++	+++++	+++++	0.19101	0.22705	0.22021		
	0.25391	0.24322	0.25341				0.23147	10.416
25 2,4-Dichlorophenol*	+++++	0.29618	0.31649	0.30731	0.30387	0.30052		
	0.27619	0.26719	0.24860				0.28954	8.010
26 1,2,4-Trichlorobenzene	0.31295	0.34014	0.33417	0.31532	0.30801	0.30622		
	0.27544	0.26411	0.24941				0.30064	10.340
28 Naphthalene	1.28221	1.26806	1.25935	1.19690	1.15941	1.15240		
	1.05919	1.02941	0.93379				1.14897	10.444
29 4-Chloroaniline	+++++	+++++	0.51586	0.51222	0.49220	0.47962		
	0.45262	0.45505	0.42737				0.47642	6.922
30 Hexachlorobutadiene*	0.16722	0.19238	0.18236	0.16507	0.16586	0.16585		
	0.14939	0.14784	0.13304				0.16322	11.021
32 4-Chloro-3-Methylphenol*	+++++	0.34958	0.36728	0.35704	0.35802	0.33758		
	0.32932	0.32895	0.31403				0.34273	5.298
33 2-Methylnaphthalene	0.78527	0.79056	0.79029	0.71003	0.69184	0.68078		
	0.63824	0.62245	0.55747				0.69633	11.819
145 1-Methylnaphthalene	0.79385	0.80097	0.80032	0.74080	0.71733	0.69680		
	0.64214	0.62649	0.57921				0.71088	11.484

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
35 Hexachlorocyclopentadiene**	+++++	+++++	+++++	0.31442	0.32153	0.32905		
	0.33820	0.33213	0.32089				0.32604	2.659
36 2,4,6-Trichlorophenol*	+++++	0.34625	0.35716	0.37535	0.35513	0.36284		
	0.35340	0.35325	0.33933				0.35534	3.022
37 2,4,5-Trichlorophenol	+++++	0.36797	0.37862	0.38859	0.38580	0.38567		
	0.38092	0.38769	0.35746				0.37909	2.903
39 2-Chloronaphthalene	1.21503	1.25989	1.27040	1.19909	1.17871	1.14325		
	1.12049	1.12754	1.00543				1.16887	6.974
40 2-Nitroaniline	+++++	0.39226	0.44679	0.46131	0.48423	0.47846		
	0.51276	0.50500	0.50458				0.47317	8.416
41 Aniline	1.86102	1.85727	1.82528	1.73549	1.57568	1.47682		
	1.30674	1.20265	1.02144				1.54026	20.086
42 Dimethylphthalate	+++++	1.37534	1.39627	1.32874	1.26949	1.27145		
	1.23505	1.21526	1.10199				1.27420	7.434
43 Bicyclo[2.2.1]hepta-2,5-diene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
44 2,6-Dinitrotoluene	+++++	0.29167	0.30823	0.32847	0.31878	0.31702		
	0.31652	0.31836	0.30583				0.31311	3.538
45 Acenaphthylene	1.76848	2.03220	2.06532	2.01665	1.92718	1.91646		
	1.87446	1.87230	1.72163				1.91052	6.109

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
46 3-Nitroaniline	+++++	+++++	0.37689	0.37852	0.36823	0.35327			
	0.37089	0.37483	0.34978				0.36749	3.126	
149 Pentachlorobenzene	0.45207	+++++	+++++	+++++	+++++	0.44111			
	+++++	0.39231	+++++				0.42850	7.424	<-
48 Acenaphthene*	1.20775	1.28572	1.26026	1.20000	1.14381	1.15342			
	1.08820	1.05629	0.99749				1.15477	8.222	
49 2,4-Dinitrophenol**	+++++	+++++	+++++	0.13386	0.16163	0.15759			
	0.19273	0.20764	0.20622				0.17661	17.011	
50 4-Nitrophenol**	+++++	+++++	+++++	0.19784	0.20654	0.19843			
	0.21272	0.20618	0.20973				0.20524	2.921	
51 Dibenzofuran	1.76306	1.81938	1.80783	1.68016	1.56929	1.53630			
	1.49168	1.43409	1.31242				1.60158	11.066	
52 2,4-Dinitrotoluene	+++++	0.35102	0.40757	0.41390	0.42936	0.42212			
	0.42973	0.43947	0.42249				0.41446	6.624	
53 1-Chloro-3,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
54 2-Methyl-benzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
55 N,N-Dimethyl-benzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
56 Diethylphthalate	+++++	1.34178	1.38340	1.35412	1.26446	1.21826			
	1.21230	1.21534	1.08057				1.25878	7.887	
57 Fluorene	1.36572	1.50156	1.48505	1.38626	1.26041	1.25421			
	1.17231	1.15056	0.96209				1.28202	13.516	
58 4-Chlorophenyl phenyl ether	0.63383	0.65983	0.63004	0.61183	0.59365	0.58208			
	0.55432	0.55311	0.49177				0.59005	8.732	
59 4-Nitroaniline	+++++	+++++	0.39579	0.40707	0.43084	0.40231			
	0.41453	0.44807	0.40917				0.41540	4.363	
60 4,6-Dinitro-2-methylphenol	+++++	+++++	0.10191	0.12255	0.14006	0.13743			
	0.13887	0.14068	0.13328				0.13068	10.826	
61 N-nitrosodiphenylamine*	+++++	+++++	0.71782	0.71224	0.67802	0.65546			
	0.58410	0.59127	0.50658				0.63507	12.212	
63 2,4-Dimethylbenzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
64 N,N,4-Trimethylbenzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
65 4-Bromophenyl phenyl ether	0.18036	0.21819	0.21510	0.21370	0.20053	0.19904			
	0.18026	0.18136	0.16257				0.19457	9.964	
66 Hexachlorobenzene	0.24517	0.25284	0.24816	0.23609	0.22647	0.21701			
	0.19715	0.20156	0.17901				0.22261	11.557	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
67 Cumene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
144 Carbazole	2.46303	2.79325	2.82560	2.70477	2.52624	2.18028			
	2.04858	1.82672	1.69993				2.34093	17.919	
68 Pentachlorophenol*	+++++	+++++	+++++	0.13166	0.13259	0.13257			
	0.12894	0.13097	0.12110				0.12964	3.391	
69 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
70 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
72 Phenanthrene	1.22733	1.26117	1.21685	1.18559	1.10054	1.06933			
	0.97931	0.95734	0.90076				1.09980	11.973	
73 Anthracene	1.01174	1.19311	1.15016	1.16763	1.11237	1.07830			
	0.99158	0.95789	0.89851				1.06237	9.644	
74 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
76 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
78 Di-n-butylphthalate	+++++	1.26136	1.33634	1.35018	1.34937	1.30665			
	1.24537	1.25264	1.09682				1.27484	6.580	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
79 Lindane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
80 Fluoranthene*	1.06435	1.15718	1.21316	1.15469	1.09627	1.02234			
	0.96068	0.94751	0.88609				1.05581	10.441	
81 Pyrene	1.32258	1.44788	1.41954	1.35516	1.30192	1.32252			
	1.19270	1.22187	1.14462				1.30320	7.764	
84 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
85 Butyl benzyl phthalate	+++++	0.57223	0.64655	0.67867	0.70076	0.69477			
	0.68951	0.69021	0.68490				0.66970	6.374	
86 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
87 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
88 Benzo(a)Anthracene	1.03483	1.22006	1.28691	1.26791	1.26979	1.25925			
	1.23700	1.24436	1.22901				1.22768	6.144	
89 3 3'-Dichlorobenzidine	+++++	+++++	+++++	0.41732	0.43342	0.42273			
	0.42745	0.42987	0.43186				0.42711	1.425	
91 Chrysene	1.23742	1.35654	1.34939	1.27803	1.25023	1.23319			
	1.18889	1.18941	1.17092				1.25045	5.373	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
92 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
93 bis(2-ethylhexyl)Phthalate	+++++	0.69209	0.80218	0.87287	0.93834	0.92920		
	0.95920	0.96478	0.95536				0.88925	10.894
94 Di-n-octyl phthalate*	+++++	1.17742	1.56706	1.80299	1.98586	1.99108		
	2.07992	2.06571	2.01155				1.83520	17.191
95 Benzo(b)fluoranthene	1.28638	1.57947	1.69370	1.59775	1.68059	1.69555		
	1.49912	1.57449	1.57007				1.57524	8.073
96 Benzo(k)fluoranthene	1.50499	1.74681	1.94293	1.85216	1.72163	1.68402		
	1.69943	1.59149	1.50134				1.69387	8.707
97 Benzo(e)pyrene	1.37809	1.54046	1.64849	1.57436	1.54535	1.52618		
	1.45314	1.41982	1.36779				1.49485	6.377
98 Benzo(a)pyrene*	1.25126	1.56069	1.69407	1.62029	1.53720	1.53892		
	1.49130	1.47024	1.29897				1.49588	9.507
103 Indeno(1,2,3-cd)pyrene	1.07662	1.50405	1.65634	1.62799	1.63021	1.61858		
	1.60666	1.55488	1.52451				1.53331	11.669
104 Dibenzo(a,h)anthracene	1.05428	1.33788	1.43549	1.32957	1.20569	1.33286		
	1.34421	1.23324	1.18268				1.27288	8.982
105 Benzo(g,h,i)perylene	1.15779	1.47331	1.51613	1.50817	1.48182	1.44896		
	1.41401	1.37878	1.34698				1.41400	7.907

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
106 3,3'-Dimethoxybenzidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
139 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
140 Perylene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
143 Coronene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
141 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 1 2-Fluorophenol	+++++	1.03168	1.07631	1.03595	0.96356	0.91999			
	0.83670	0.78041	0.69684				0.91768	14.760	
$ 2 Phenol-d5	+++++	1.39371	1.37057	1.35467	1.23627	1.14503			
	1.04246	0.94883	0.82202				1.16420	18.233	
$ 8 13C-Phenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 17 Nitrobenzene-d5	0.40487	0.43953	0.46345	0.44004	0.43555	0.44058			
	0.42538	0.42310	0.40631				0.43098	4.268	
$ 31 d4-1,4-dibromobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
$ 146 2-Methylnaphthalene-d10	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 34 1-Methylnaphthalene-d10	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 38 2-Fluorobiphenyl	1.43243	1.39419	1.38729	1.34330	1.34552	1.23603			
	1.13513	1.09203	+++++				1.29574	9.778	
$ 62 2,4,6-Tribromophenol	+++++	0.16127	0.17760	0.18090	0.17674	0.16986			
	0.17085	0.17362	0.16306				0.17174	4.035	
$ 75 13c-Pentachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 77 d10-Anthracene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 82 Terphenyl-d14	0.88902	0.93000	0.91148	0.90058	0.88870	0.83939			
	0.81155	0.77493	+++++				0.86821	6.208	
$ 83 Fluoranthene-d10	0.77237	0.91679	0.92761	0.92524	0.88695	0.84594			
	+++++	+++++	+++++				0.87915	6.911	
$ 100 Benzo(e)pyrene-d12	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 101 Benzo(a)pyrene-d12	0.79075	1.00995	1.10910	1.08513	1.07546	1.05350			
	+++++	+++++	+++++				1.02065	11.512	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
$ 102 d12-Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 142 1,3,5-Trichlorobenzene-d3	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 147 Fluorene-d10	1.10994	1.25401	1.15735	1.11949	1.11205	1.09143			
	1.03560	1.01603	0.98026				1.09735	7.430	
$ 148 Pyrene-d10	1.03646	1.06312	1.07193	1.00995	1.00158	1.02097			
	0.94715	0.93699	0.91950				1.00085	5.503	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

Average %RSD Results.
Calculated Average %RSD = 9.78273105
Maximun Average %RSD = 15
* Passed Average %RSD Test.

Calibration History

Method : /chem/msdp.i/p16apr08.b/bnap1221b.m
Start Cal Date: 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
16-APR-2008 16:46	Pentabenz	/chem/msdp.i/p16apr08.b/p041611.d
07-MAR-2008 12:00	82702surr	/chem/msdp.i/p07mar08.b/p030704.d
21-DEC-2007 10:54	1ng	/chem/msdp.i/p21dec07.b/p122104.d
Cal Level: 2 , Cal Amount: 5.00000		
07-MAR-2008 12:30	82702surr	/chem/msdp.i/p07mar08.b/p030705.d
21-DEC-2007 11:24	5ng	/chem/msdp.i/p21dec07.b/p122105.d
Cal Level: 3 , Cal Amount: 10.00000		
07-MAR-2008 12:59	82702surr	/chem/msdp.i/p07mar08.b/p030706.d
21-DEC-2007 11:53	10ng	/chem/msdp.i/p21dec07.b/p122106.d
Cal Level: 4 , Cal Amount: 20.00000		
07-MAR-2008 13:28	82702surr	/chem/msdp.i/p07mar08.b/p030707.d
21-DEC-2007 12:23	20ng	/chem/msdp.i/p21dec07.b/p122107.d
Cal Level: 5 , Cal Amount: 40.00000		
07-MAR-2008 13:58	82702surr	/chem/msdp.i/p07mar08.b/p030708.d
21-DEC-2007 12:52	50ng	/chem/msdp.i/p21dec07.b/p122108.d
Cal Level: 6 , Cal Amount: 50.00000		
16-APR-2008 17:16	Pentabenz	/chem/msdp.i/p16apr08.b/p041612.d
07-MAR-2008 14:27	82702surr	/chem/msdp.i/p07mar08.b/p030709.d
21-DEC-2007 13:22	50ccv	/chem/msdp.i/p21dec07.b/p122109.d

Cal Level: 7 , Cal Amount: 80.00000		
07-MAR-2008 14:57	82702surr	/chem/msdp.i/p07mar08.b/p030710.d
21-DEC-2007 13:51	160ng	/chem/msdp.i/p21dec07.b/p122110.d

Cal Level: 8 , Cal Amount: 100.00000		
16-APR-2008 17:45	Pentabenz	/chem/msdp.i/p16apr08.b/p041613.d
07-MAR-2008 15:26	82702surr	/chem/msdp.i/p07mar08.b/p030711.d
21-DEC-2007 14:21	160ng	/chem/msdp.i/p21dec07.b/p122111.d

Cal Level: 9 , Cal Amount: 160.00000		
21-DEC-2007 14:50	160ng	/chem/msdp.i/p21dec07.b/p122112.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 50.00		
16-APR-2008 15:47	50ccv	/chem/msdp.i/p16apr08.b/p041609.d

Ccal Level: 6 , Ccal Amount: 50.00		
16-APR-2008 17:16	Pentabenz	/chem/msdp.i/p16apr08.b/p041612.d

* Fluorene must be ≥ 70.4% in CCV.

Report Date : 17-Apr-2008 14:11 Page 1

✓ All PAH compounds < 20% RSD.

Air Toxics Ltd.

✓ All SPCC + CCC criteria met.

INITIAL CALIBRATION DATA

Start Cal Date : 21-DEC-2007 10:54
End Cal Date : 16-APR-2008 17:45
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/p16apr08.b/bnap1221b.m
Cal Date : 17-Apr-2008 13:59 lzhang
Curve Type : Average

✓ LCS: P122113

✓ "a" portion to include surrogates:
#38, 2-Fluorobiphenyl
#82, Terphenyl-d14

Calibration File Names:
Level 1: /chem/msdp.i/p16apr08.b/p041611.d
Level 2: /chem/msdp.i/p07mar08.b/p030705.d
Level 3: /chem/msdp.i/p07mar08.b/p030706.d
Level 4: /chem/msdp.i/p07mar08.b/p030707.d
Level 5: /chem/msdp.i/p07mar08.b/p030708.d
Level 6: /chem/msdp.i/p16apr08.b/p041612.d
Level 7: /chem/msdp.i/p07mar08.b/p030710.d
Level 8: /chem/msdp.i/p16apr08.b/p041613.d
Level 9: /chem/msdp.i/p21dec07.b/p122112.d

see history

✓ "b" portion to include
#149, Pentachlorbenzene
(3-pt. calibration only, no LCS)

Based on 1.0uL injection in MeCl2 4/17/08

Compound unit in ug/mL or ng on column.	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
3 Phenol*	+++++	1.59241	1.62089	1.54027	1.38216	1.28603		
	1.12127	1.05257	0.89101				1.31083	20.645
4 bis(2-Chloroethyl)ether	1.19251	1.18772	1.20121	1.11783	1.02812	0.97098		
	0.88408	0.81796	0.74127				1.01574	17.038
5 2-Chlorophenol	+++++	1.08405	1.11140	1.06863	0.97368	0.93462		
	0.85227	0.79274	0.70399				0.94017	15.721
6 1,3-Dichlorobenzene	1.15415	1.18961	1.15087	1.08095	0.99348	0.94238		
	0.84398	0.77293	0.67018				0.97762	18.881
9 1,4-Dichlorobenzene*	1.29865	1.22780	1.20644	1.12390	1.00740	0.97145		
	0.86245	0.79701	0.68967				1.02053	20.570
10 Benzyl Alcohol	0.71582	0.75014	0.76210	0.75711	0.71564	0.66003		
	0.60932	0.57906	0.50144				0.67230	13.622
11 1,2-Dichlorobenzene	1.07411	1.12043	1.11107	1.04405	0.94402	0.90865		
	0.82273	0.76447	0.65595				0.93838	17.545

✓ 4/18/08

MSD-P Run Log

@Air Toxics Ltd.

Logbook#: 1641

Method: T013A

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.67
68	Less than 2.00% of mass 69	0.86 (1.91)1
69	Less than 99.90% of mass 198	45.19
70	Less than 2.00% of mass 69	0.23 (0.50)1
127	40.00 – 60.00% of mass 198	53.64
197	Less than 1.00% of mass 198	0.08
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	21.32
365	Greater than 1.00% of mass 198	2.77
441	Present, but less than mass 443	11.09
442	40.00 - 100.00% of mass 198	74.80
443	17.00 - 23.00% of mass 442	13.84 (18.50)2

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Instrument ID: MSD-P
DFTPP File ID: P041608
DFTPP Injection Date: 4/16/08
DFTPP Injection Time 15:26

#1500-124-1000 IS	Area Counts
1,4-Dichlorobenzene-d_4:	315188
Naphthalene-d_8:	717415
Acenaphthene-d_{10}:	391485
Phenanthrene-d_{10}:	622648
Chrysene-d_{12}:	574390
Perylene-d_{12}:	479044

Injection Volume: 1.0 µL

	use	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	✓	P041607	MeCl2 Wash	1	1.00	4/16/08	15:08	up	front end maint.
2	✓	08	1500-76C-50 tune	2			15:26		1,3,1 breakdown
3	✓	09	1500-101A-50 CCV	3			15:47		
4	✓	10	MeCl2 Blank	4			16:17		
5	✓	11	1500-148-1.0	5			16:46		Pentachlorobenzene curve.
6	✓	12	-50	6			17:16		
7	✓	13	14764 12 -100	7			17:45		
8	✓	14	1500-149-50	8			18:14		
9	✓	15	MeCl2 Blank	9			18:44		
10	✓	16	08036666C-BIK	10			19:13		
11	✓	17	-LCS	11			19:43		
12	✓	18	-01A	12			20:12		
13	✓	19	-01AA	13			20:41		
14	✓	20	-02A	14			21:11		
15	✓	21	-03A	15			21:40		
16	✓	22	X080409 P070916 P060911 P080409	16			22:10		
17	✓	23	08043666B-BIK	17			22:39		
18	✓	24	-LCS	18			23:08		
19	✓	25	-04A	19			23:38		
20	✓	26	-04AA	20		4/17/08	00:07		
21	✓	27	-05A	21		1	00:36		
22									
23							up 4/17/08		

Calculation Check:

ng of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(360827)}{(297043)} \times \frac{(40.0)}{(1.31083)} = 37.07$

File ID: P041624
Compound: Phenol
Initials: up

Signed

4/16/08
Date

MSD-P Run Log

@Air Toxics Ltd.

Logbook#: 1641

Method: TO13A

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.82
68	Less than 2.00% of mass 69	0.38 (0.84)1
69	Less than 99.90% of mass 198	45.09
70	Less than 2.00% of mass 69	0.20(0.43)1
127	40.00 – 60.00% of mass 198	52.19
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.65
275	10.00 - 30.00% of mass 198	20.88
365	Greater than 1.00% of mass 198	2.69
441	Present, but less than mass 443	10.05
442	40.00 - 100.00% of mass 198	66.62
443	17.00 - 23.00% of mass 442	12.82 (19.24)2

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Instrument ID: MSD-P
DFTPP File ID: P030702
DFTPP Injection Date: 3/7/08
DFTPP Injection Time 11:10

#1500-124-1000IS	Area Counts
1,4-Dichlorobenzene-d_4:	278255
Naphthalene-d_8:	720975
Acenaphthene-d_{10}:	392938
Phenanthrene-d_{10}:	633676
Chrysene-d_{12}:	367063
Perylene-d_{12}:	431347

Injection Volume: 1.0 µL

	use	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	✓	P030701	MeCl2 Wash	1	1.00	3/7/08	~~09:23~~ 10:52	VP	front-end maintenance
2	✓	02	1500-768-50 tune	2			11:10 w 3/10/08		0.1 breakdown
3	✓	03	MeCl2 Blank	3			11:31		
4	✓	04	1500-129-1.0	4			12:00		
5	✓	05	-5.0	5			12:30		
6	✓	06	-10	6			12:59		
7	✓	07	-20	7			13:28		
8	✓	08	-40 ~~-50~~	8			13:58		
9	✓	09	-50 ~~-80~~	9			14:27		
10	✓	10	-80 3/10/08	10			14:57		
11	✓	11	-100	11			15:26		
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23								VP 3/7/08	

Calculation Check:

ng of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(594986)}{(567063)} \times \frac{(40.0)}{(0.86821)} = 48.34$

File ID: P030709
Compound: Terphenyl-d14
Initials: VP

Signed

3/7/08
Date

Instrument P Run Log

@Air Toxics Ltd.

Logbook#: 1593

Method: TO13A

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.52
68	Less than 2.00% of mass 69	0.61 (1.43)1
69	Less than 99.90% of mass 198	42.98
70	Less than 2.00% of mass 69	0.37 (0.87)1
127	40.00 – 60.00% of mass 198	49.36
197	Less than 1.00% of mass 198	0.36
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 30.00% of mass 198	19.99
365	Greater than 1.00% of mass 198	2.49
441	Present, but less than mass 443	10.18
442	40.00 - 100.00% of mass 198	67.78
443	17.00 - 23.00% of mass 442	12.77 (18.84)2

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Instrument ID: MSD-P
DFTPP File ID: P122102
DFTPP Injection Date: 12/21/07
DFTPP Injection Time 10:04

# 1500-13-1000 IS	Area Counts
1,4-Dichlorobenzene-d_4:	290980
Naphthalene-d_8:	673378
Acenaphthene-d_{10}:	362252
Phenanthrene-d_{10}:	605762
Chrysene-d_{12}:	511454
Perylene-d_{12}:	379203

Injection Volume: 1.0 µL

	use	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	✓	P122101	MeCl2 Wash	1	1.00	12/21/07	09:46	up	front-end maintenance
2	✓	02	1500-76A-50 tune	2			10:04		0.1 breakdown
3	✓	03	MeCl2 Blank	3			10:25		
4	✓	04	1500-101-1.0	4			10:54		
5	✓	05	5.0	5			11:24		
6	✓	06	10	6			11:53		
7	✓	07	20	7			12:23		
8	✓	08	40	8			12:52		
9	✓	09	50	9			13:22		
10	✓	10	80	10			13:51		
11	✓	11	100	11			14:21		
12	✓	12	160	12			14:50		
13	✓	13	1500-79-50	13			15:19		LCS
14									
15									
16									
17									
18									
19									
20									
21									
22									
23								up 12/21/07	

Calculation Check:

ng of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(533197)}{(322333)} \times \frac{(40.0)}{(1.31083)} = 50.48$

File ID: P122113
Compound: Phenol
Initials: up

Signed Lynette Phan

12/21/07
Date

Air Toxics Ltd.
Modified EPA Methods TO-13A
Internal Standard and Associated Target Compounds and Surrogates

1,4-Dichlorobenzene-d4
Target Compounds:
Phenol
bis(2-Chloroethyl) Ether
2-Chlorophenol
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
2-Methylphenol (o-Cresol)
bis(2-Chloroisopropyl) Ether
N-Nitroso-di-n-propylamine
4-Methylphenol/3-Methylphenol
Hexachloroethane
Surrogates:
2-Fluorophenol
Phenol-d5

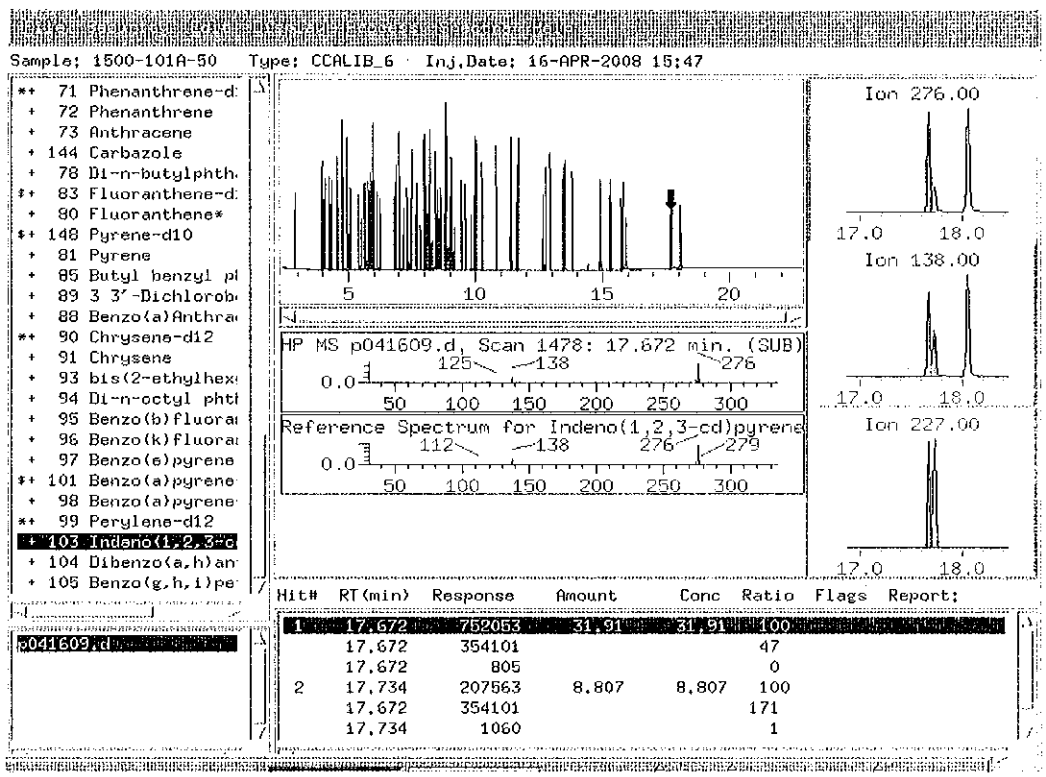
Phenanthrene-d10
Target Compounds:
N-Nitrosodiphenylamine
4-Bromophenyl-phenyl Ether
Hexachlorobenzene
Pentachlorophenol
Phenanthrene
Anthracene
di-n-Butylphthalate
Fluoranthene

Naphthalene-d8
Target Compounds:
Nitrobenzene
Isophorone
2-Nitrophenol
2,4-Dimethylphenol
Benzoic Acid
bis(2-Chloroethoxy) Methane
2,4-Dichlorophenol
1,2,4-Trichlorobenzene
Naphthalene
4-Chloroaniline
Hexachlorobutadiene
4-Chloro-3-methylphenol
2-Methylnaphthalene
Hexachlorocyclopentadiene
1-Methylnaphthalene
Surrogates:
Nitrobenzene-d5

Chrysene-d12
Target Compounds:
Pyrene
Butylbenzylphthalate
3,3'-Dichlorobenzidine
Chrysene
Benzo(a)anthracene
bis(2-Ethylhexyl)phthalate
Surrogates:
Pyrene-d10

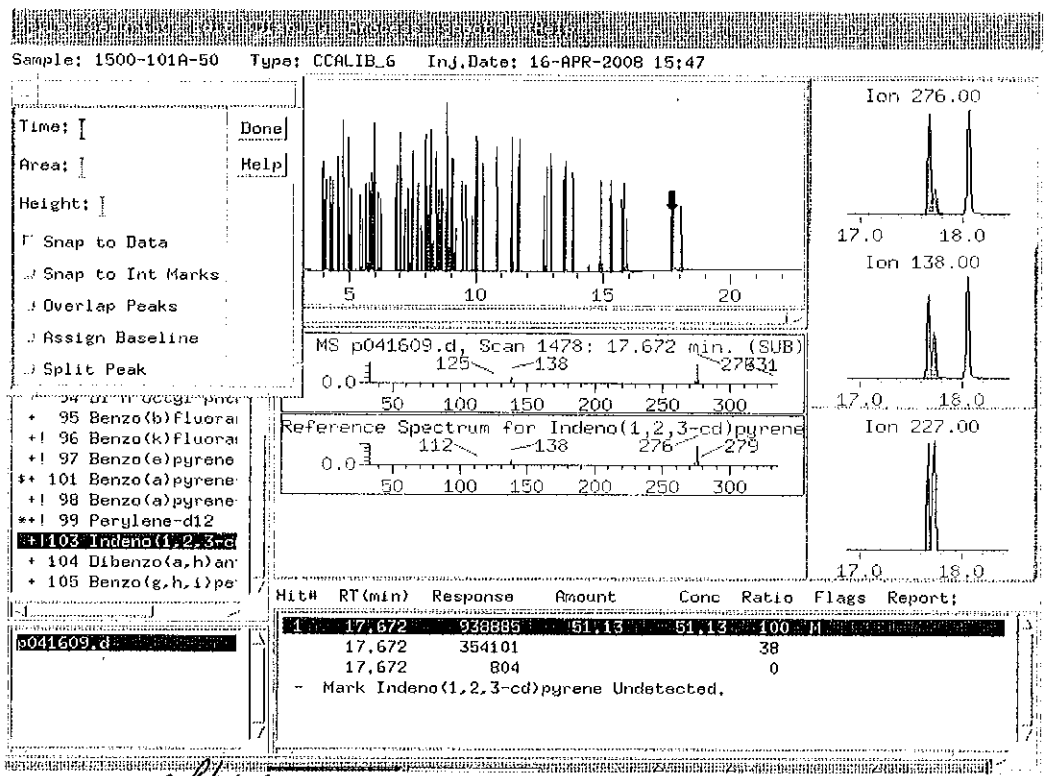
Acenaphthene-d10
Target Compounds:
2,4,6-Trichlorophenol
2,4,5-Trichlorophenol
2-Chloronaphthalene
2-Nitroaniline
Dimethylphthalate
Acenaphthylene
2,6-Dinitrotoluene
3-Nitroaniline
Acenaphthene
2,4-Dinitrophenol
4-Nitrophenol
2,4-Dinitrotoluene
Dibenzofuran
Diethylphthalate
Fluorene
4-Chlorophenyl-phenyl Ether
4-Nitroaniline
4,6-Dinitro-2-methylphenol
Surrogates:
2,4,6-Tribromophenol
Fluorene-d10

Perylene-d12
Target Compounds:
Di-n-Octylphthalate
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(a)pyrene
Indeno(1,2,3-c,d)pyrene
Dibenz(a,h)anthracene
Benzo(g,h,i)perylene



before peak is split

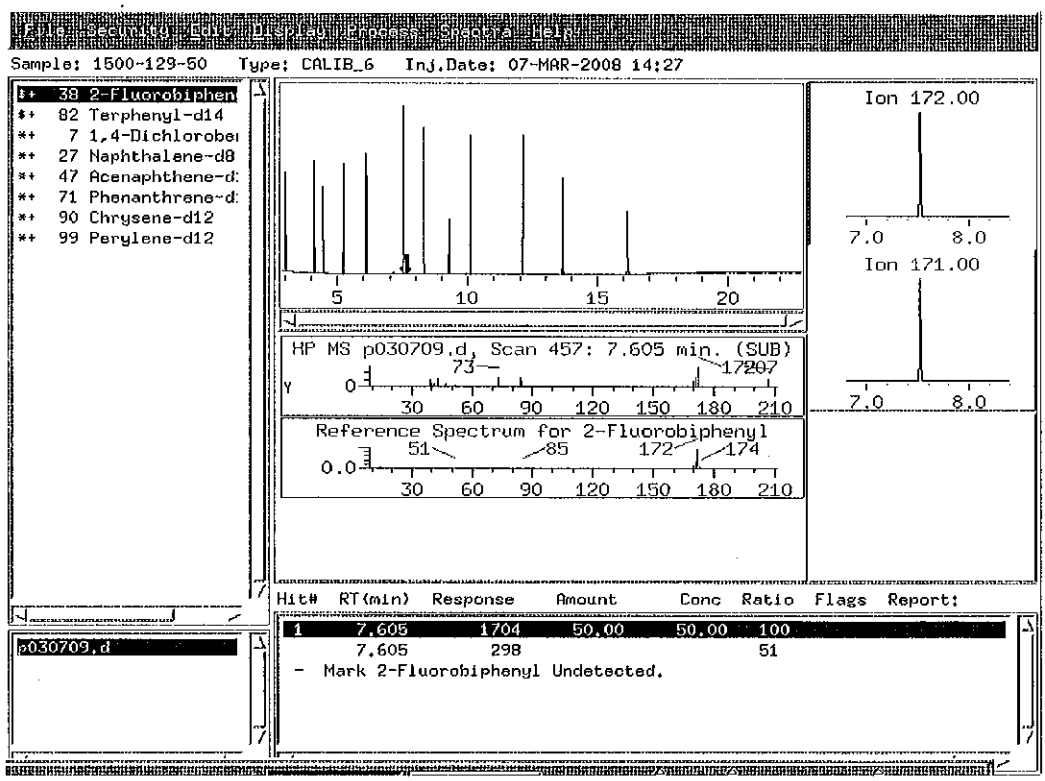
LP 4/17/08



after
~~before~~ peak is integrated
up 4/17/08

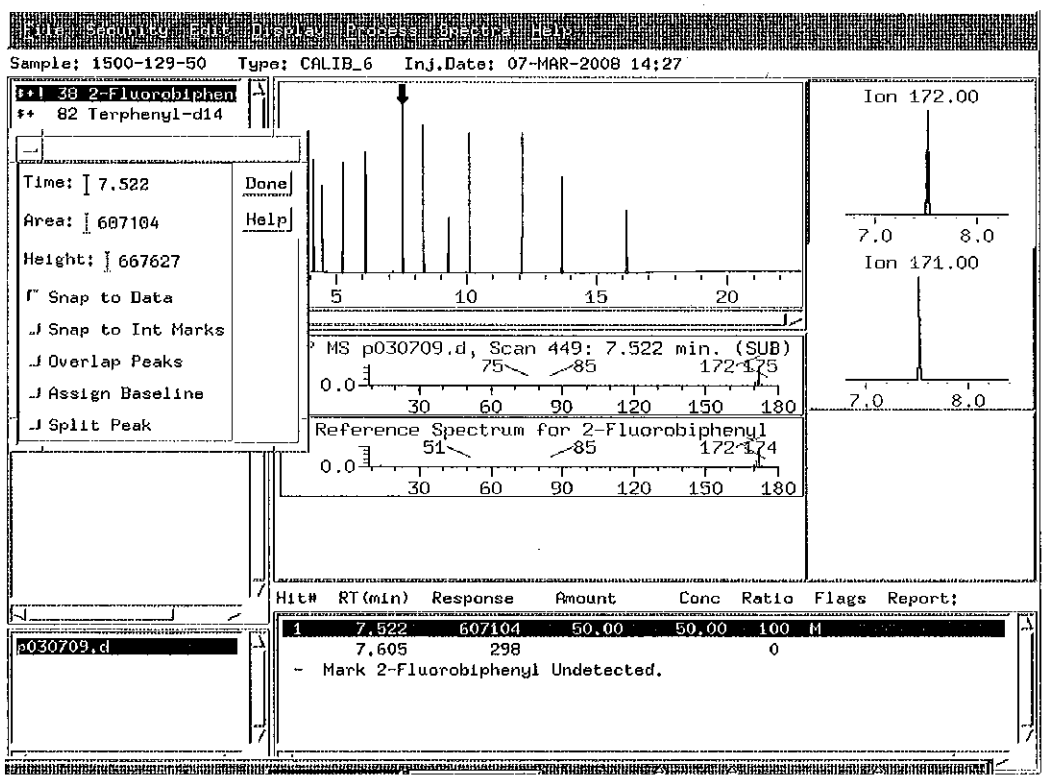
up 4/17/08

4/17/08



before peak missed

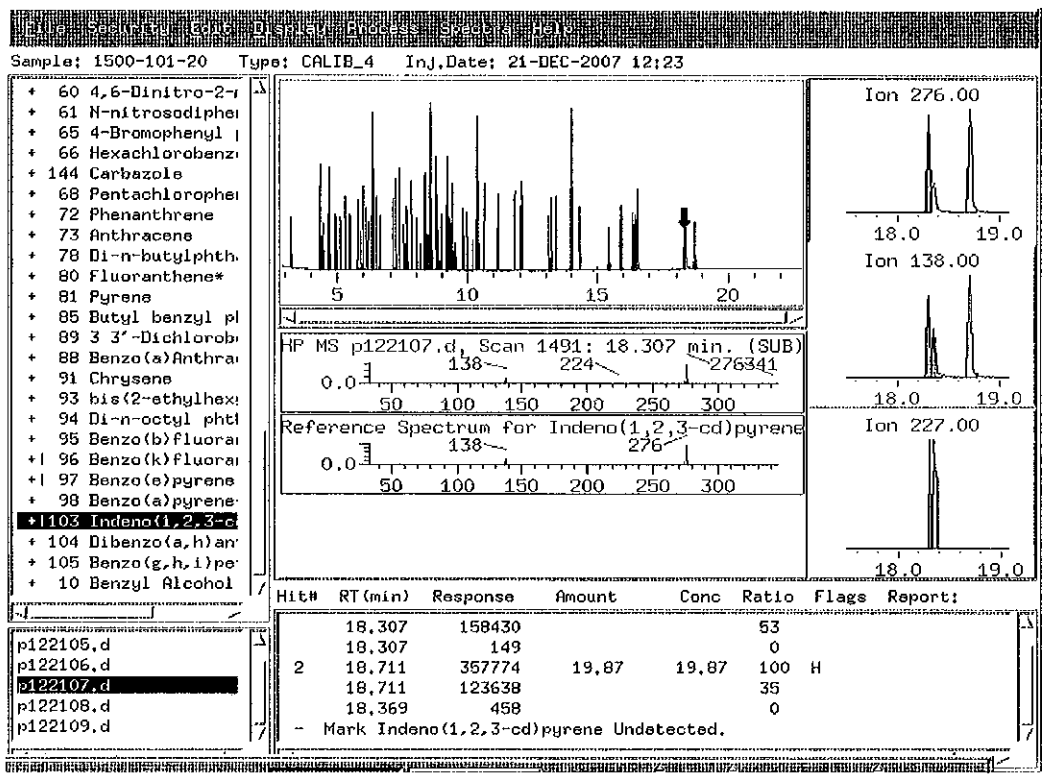
up 3/10/08



after integration of peak

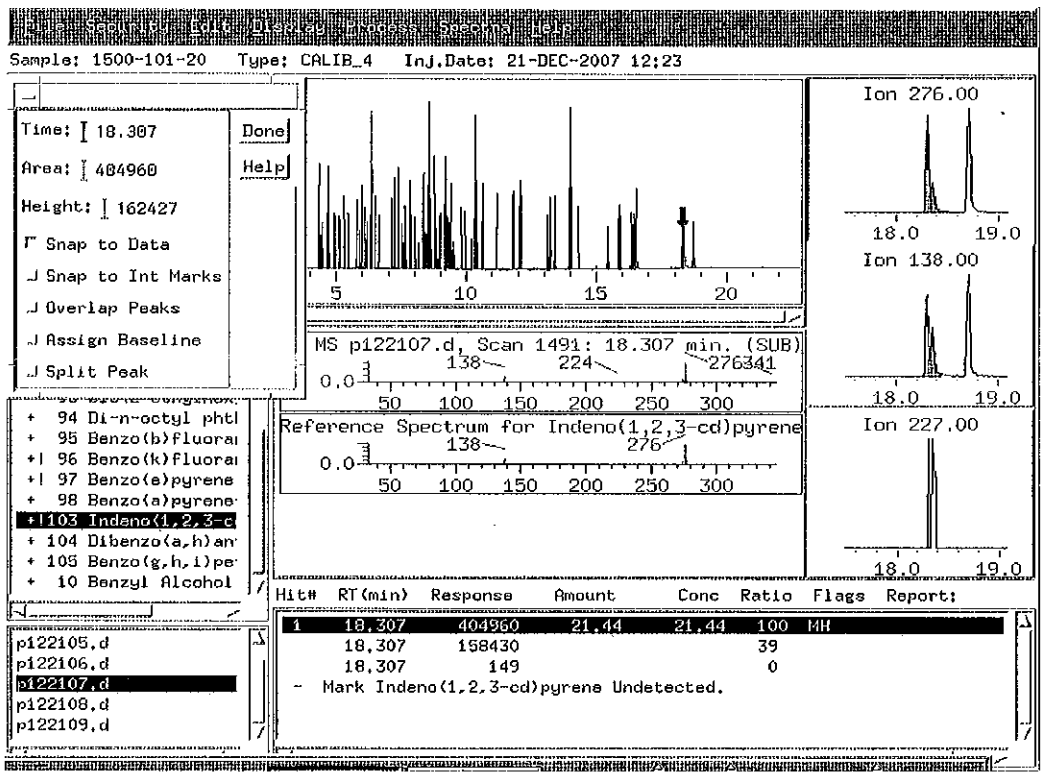
up 3/10/08

3/13/08



before peak is split

up 12/21/07



after integration of peak

LP 12/21/07

LJ 12/21/07

Air Toxics Ltd.

Performance Check for 8270C

Data file : /chem/msdp.i/p16apr08.b/p041608a.d
Lab Smp Id: DFTPP 50ng Client Smp ID: Breakdown
Inj Date : 16-APR-2008 15:26
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-76C-50;TUNE
Misc Info :
Comment :
Method : /chem/msdp.i/p16apr08.b/BREAK.m
Meth Date : 10-Mar-2008 12:20 lpham Quant Type: ESTD
Cal Date : 20-OCT-2004 08:05 Cal File: p102001a.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	CONCENTRATIONS FINAL (ug)
M	1 Total DDT				1407463	57.8250	57.82499
	2 Pentachlorophenol	4.437	4.572	-0.135	949540	81.5889	81.58892
	3 Benzidine	6.693	6.838	-0.145	1610582	52.1073	52.10729
	4 p,p'-DDE	Compound Not Detected.					
	5 p,p'-DDD	7.594	7.749	-0.155	17843		
	6 p,p'-DDT	8.049	8.204	-0.155	1389620	57.8250	57.82499

DDT breakdown: $\frac{17843}{1407463} \times 100\% = 1.3\%$

VP 4/17/08

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122113.d
Lab Smp Id: 1500-79-50 Client Smp ID: LCS
Inj Date : 21-DEC-2007 15:19
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-79-50;LCS
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 21-Dec-2007 14:59 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 14:50 Cal File: p122112.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: second.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
3	Phenol*	94	4.334	4.334	(0.925)	533197	50.4775	50.48
41	Aniline	93	4.334	4.334	(0.925)	622849	50.1814	50.18
4	bis(2-Chloroethyl)ether	93	4.427	4.427	(0.945)	405132	49.4958	49.50
5	2-Chlorophenol	128	4.468	4.469	(0.954)	390005	51.4775	51.48
6	1,3-Dichlorobenzene	146	4.644	4.645	(0.991)	388496	49.3144	49.31
* 7	1,4-Dichlorobenzene-d4	150	4.686	4.686	(1.000)	322333	40.0000	
9	1,4-Dichlorobenzene*	146	4.707	4.707	(1.004)	403246	49.0343	49.03
10	Benzyl Alcohol	108	4.914	4.914	(1.049)	285602	52.7176	52.72
11	1,2-Dichlorobenzene	146	4.945	4.945	(1.055)	385586	50.9914	50.99
12	2-Methylphenol	108	5.100	5.100	(1.088)	371300	50.5841	50.58
13	bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.095)	743117	49.6958	49.70
14	4-Methylphenol	108	5.286	5.297	(1.128)	382333	49.4998	49.50
15	N-Nitrosodipropylamine**	70	5.307	5.307	(1.133)	299284	50.7641	50.76

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
16	Hexachloroethane	117	5.338	5.338	(1.139)	162702	52.6927	52.69
18	Nitrobenzene	77	5.462	5.462	(0.863)	429423	52.3307	52.33
19	Isophorone	82	5.773	5.773	(0.912)	806917	58.3288	58.33
20	2-Nitrophenol*	139	5.886	5.887	(0.930)	211819	55.1420	55.14
21	2,4-Dimethylphenol	122	5.969	5.970	(0.943)	338463	50.7418	50.74
24	Benzoic Acid	122	6.145	6.135	(0.971)	242825	56.4668	56.47
23	bis(2-Chloroethoxy)methane	93	6.104	6.104	(0.964)	465313	50.1302	50.13
25	2,4-Dichlorophenol*	162	6.187	6.187	(0.977)	292898	54.4499	54.45
26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	291352	52.1629	52.16
* 27	Naphthalene-d8	136	6.332	6.332	(1.000)	743133	40.0000	
28	Naphthalene	128	6.352	6.352	(1.003)	1110389	52.0188	52.02
29	4-Chloroaniline	127	6.476	6.477	(1.023)	472998	53.4395	53.44
30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	158101	52.1368	52.14
32	4-Chloro-3-Methylphenol*	107	7.118	7.118	(1.124)	331017	51.9871	51.99
33	2-Methylnaphthalene	142	7.232	7.232	(1.142)	701933	54.2595	54.26
145	1-Methylnaphthalene	142	7.367	7.367	(1.163)	644815	48.8240	48.82
35	Hexachlorocyclopentadiene**	237	7.532	7.532	(0.881)	185138	54.6497	54.65
36	2,4,6-Trichlorophenol*	196	7.636	7.636	(0.893)	189324	51.2770	51.28
37	2,4,5-Trichlorophenol	196	7.677	7.677	(0.898)	198952	50.5087	50.51
39	2-Chloronaphthalene	162	7.832	7.833	(0.916)	620944	51.1264	51.13
40	2-Nitroaniline	65	8.019	8.019	(0.938)	266863	54.2783	54.28
42	Dimethylphthalate	163	8.319	8.319	(0.973)	701125	52.9562	52.96
44	2,6-Dinitrotoluene	165	8.391	8.391	(0.982)	166415	51.1512	51.15
45	Acenaphthylene	152	8.350	8.350	(0.977)	1045596	52.6710	52.67
46	3-Nitroaniline	138	8.536	8.536	(0.999)	201586	52.7931	52.79
* 47	Acenaphthene-d10	164	8.546	8.547	(1.000)	415624	40.0000	
48	Acenaphthene*	154	8.588	8.588	(1.005)	617136	51.4332	51.43
49	2,4-Dinitrophenol**	184	8.660	8.661	(1.013)	93371	50.8811	50.88
50	4-Nitrophenol**	109	8.774	8.774	(1.027)	106366	49.8772	49.88
51	Dibenzofuran	168	8.785	8.774	(1.028)	832764	50.0418	50.04
52	2,4-Dinitrotoluene	165	8.857	8.857	(1.036)	231288	53.7070	53.71
56	Diethylphthalate	149	9.188	9.188	(1.075)	660070	50.4661	50.47
58	4-Chlorophenyl phenyl ether	204	9.230	9.230	(1.080)	314232	51.2531	51.25
57	Fluorene	166	9.199	9.199	(1.076)	650121	48.8044	48.80
59	4-Nitroaniline	138	9.292	9.292	(1.087)	227063	52.6066	52.61
60	4,6-Dinitro-2-methylphenol	198	9.343	9.344	(0.905)	128630	55.3089	55.31
61	N-nitrosodiphenylamine*	169	9.385	9.385	(0.909)	489183	43.2834	43.28
65	4-Bromophenyl phenyl ether	248	9.809	9.809	(0.950)	177607	51.2936	51.29
66	Hexachlorobenzene	284	9.964	9.965	(0.965)	197475	49.8477	49.85
68	Pentachlorophenol*	266	10.192	10.192	(0.987)	123314	53.4504	53.45
* 71	Phenanthrene-d10	188	10.327	10.327	(1.000)	711851	40.0000	
72	Phenanthrene	178	10.358	10.348	(1.003)	996881	50.9331	50.93
73	Anthracene	178	10.410	10.410	(1.008)	1039303	54.9717	54.97
144	Carbazole	167	10.627	10.627	(2.268)	1003478	53.1954	53.20
78	Di-n-butylphthalate	149	11.165	11.165	(1.081)	1251240	55.1513	55.15
80	Fluoranthene*	202	11.817	11.817	(1.144)	1027552	54.6877	54.69
81	Pyrene	202	12.107	12.107	(0.865)	1059472	51.9006	51.90

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
85	Butyl benzyl phthalate	149	13.225	13.225	(0.945)	548188	52.2568	52.26
89	3 3'-Dichlorobenzidine	252	14.001	14.001	(1.001)	360729	53.9184	53.92
88	Benzo(a)Anthracene	228	13.970	13.960	(0.999)	1002118	52.1106	52.11
* 90	Chrysene-d12	240	13.991	13.991	(1.000)	626566	40.0000	
91	Chrysene	228	14.032	14.032	(1.003)	1007364	51.4297	51.43
93	bis(2-ethylhexyl)Phthalate	149	14.312	14.312	(1.023)	774547	55.6053	55.60
94	Di-n-octyl phthalate*	149	15.440	15.440	(0.934)	1286707	59.4211	59.42
95	Benzo(b)fluoranthene	252	15.874	15.864	(0.961)	1006827	54.1693	54.17
96	Benzo(k)fluoranthene	252	15.916	15.916	(0.963)	1064149	53.2435	53.24
97	Benzo(e)pyrene	252	16.340	16.340	(0.989)	934840	53.0009	53.00
98	Benzo(a)pyrene*	252	16.433	16.423	(0.994)	985966	55.8609	55.86
* 99	Perylene-d12	264	16.527	16.527	(1.000)	471972	40.0000	
103	Indeno(1,2,3-cd)pyrene	276	18.317	18.307	(1.108)	1004381	55.5151	55.52
104	Dibenzo(a,h)anthracene	278	18.369	18.369	(1.111)	766997	51.0682	51.07
105	Benzo(g,h,i)perylene	276	18.731	18.721	(1.133)	916581	54.9372	54.94

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122113.d
Lab Smp Id: 1500-79-50
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: LCS
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	322333	10.77
27 Naphthalene-d8	673378	336689	1346756	743133	10.36
47 Acenaphthene-d10	362252	181126	724504	415624	14.73
71 Phenanthrene-d10	605762	302881	1211524	711851	17.51
90 Chrysene-d12	511454	255727	1022908	626566	22.51
99 Perylene-d12	379203	189602	758406	471972	24.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.69	0.00
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
99 Perylene-d12	16.53	16.03	17.03	16.53	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

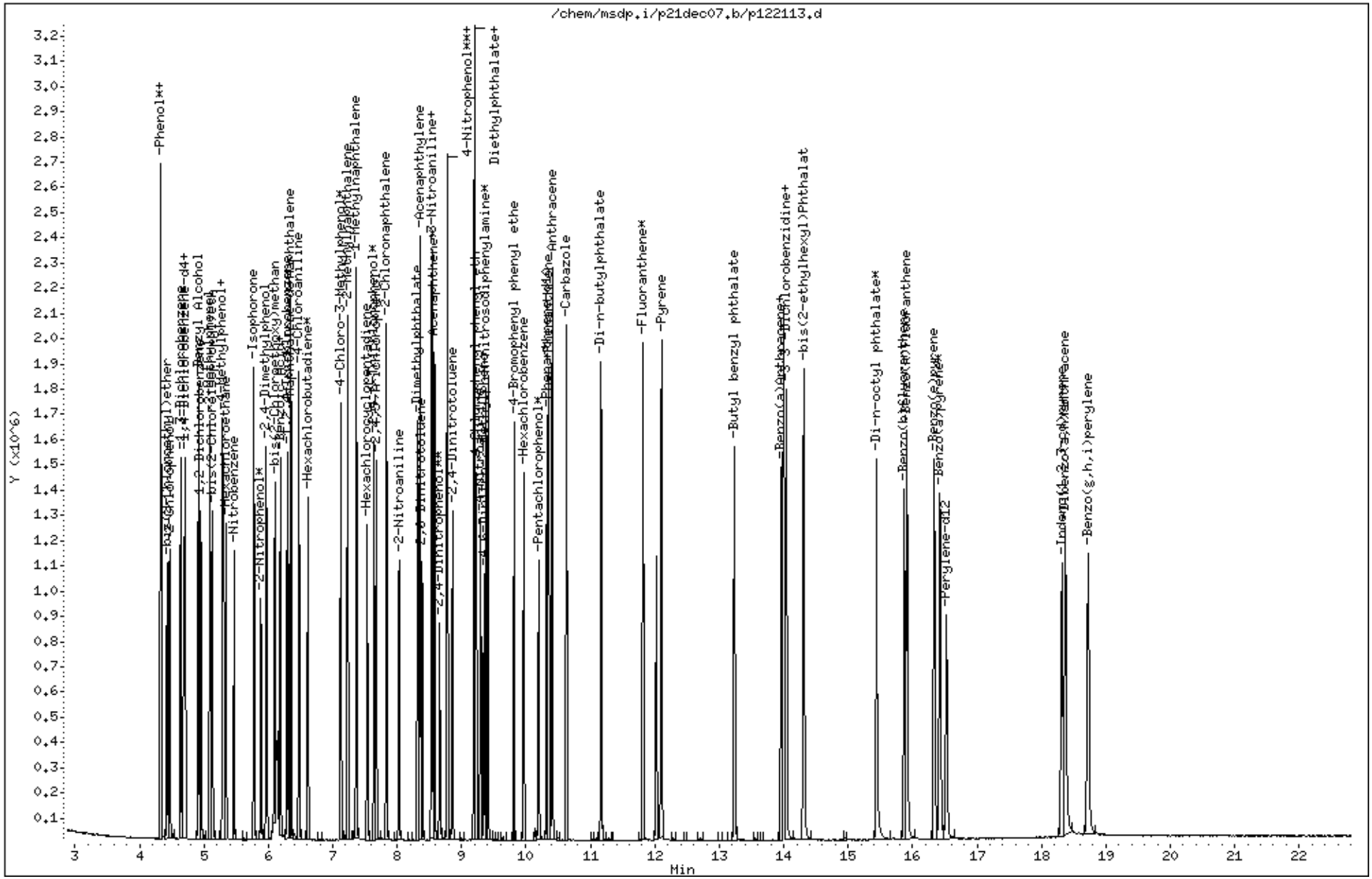
Client Name: Client SDG: p21dec07
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1500-79-50 Client Smp ID: LCS
Level: LOW Operator: LP
Data Type: MS DATA SampleType: LCS
SpikeList File: 8270sec.spk Quant Type: ISTD
Sublist File: second.sub
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
3	Phenol*	50.00	50.48	100.95	70-130
4	bis(2-Chloroethyl)	50.00	49.50	98.99	70-130
5	2-Chlorophenol	50.00	51.48	102.96	70-130
6	1,3-Dichlorobenzen	50.00	49.31	98.63	70-130
9	1,4-Dichlorobenzen	50.00	49.03	98.07	70-130
10	Benzyl Alcohol	50.00	52.72	105.44	70-130
11	1,2-Dichlorobenzen	50.00	50.99	101.98	70-130
12	2-Methylphenol	50.00	50.58	101.17	70-130
13	bis(2-Chloroisopro	50.00	49.70	99.39	70-130
14	4-Methylphenol	50.00	49.50	99.00	70-130
15	N-Nitrosodipropyla	50.00	50.76	101.53	70-130
16	Hexachloroethane	50.00	52.69	105.39	70-130
18	Nitrobenzene	50.00	52.33	104.66	70-130
19	Isophorone	50.00	58.33	116.66	70-130
20	2-Nitrophenol*	50.00	55.14	110.28	70-130
21	2,4-Dimethylphenol	50.00	50.74	101.48	70-130
23	bis(2-Chloroethoxy	50.00	50.13	100.26	70-130
24	Benzoic Acid	50.00	56.47	112.93	70-130
25	2,4-Dichlorophenol	50.00	54.45	108.90	70-130
26	1,2,4-Trichloroben	50.00	52.16	104.33	70-130
28	Naphthalene	50.00	52.02	104.04	70-130
29	4-Chloroaniline	50.00	53.44	106.88	70-130
30	Hexachlorobutadien	50.00	52.14	104.27	70-130
32	4-Chloro-3-Methylp	50.00	51.99	103.97	70-130
33	2-Methylnaphthalen	50.00	54.26	108.52	70-130
145	1-Methylnaphthalen	50.00	48.82	97.65	70-130
35	Hexachlorocyclopen	50.00	54.65	109.30	70-130
36	2,4,6-Trichlorophe	50.00	51.28	102.55	70-130
37	2,4,5-Trichlorophe	50.00	50.51	101.02	70-130
39	2-Chloronaphthalen	50.00	51.13	102.25	70-130
40	2-Nitroaniline	50.00	54.28	108.56	70-130
46	3-Nitroaniline	50.00	52.79	105.59	70-130
42	Dimethylphthalate	50.00	52.96	105.91	70-130

SPIKE	COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
44	2,6-Dinitrotoluene	50.00	51.15	102.30	70-130
45	Acenaphthylene	50.00	52.67	105.34	70-130
48	Acenaphthene*	50.00	51.43	102.87	70-130
49	2,4-Dinitrophenol*	50.00	50.88	101.76	70-130
50	4-Nitrophenol**	50.00	49.88	99.75	70-130
52	2,4-Dinitrotoluene	50.00	53.71	107.41	70-130
51	Dibenzofuran	50.00	50.04	100.08	70-130
56	Diethylphthalate	50.00	50.47	100.93	70-130
57	Fluorene	50.00	48.80	97.61	70-130
58	4-Chlorophenyl phe	50.00	51.25	102.51	70-130
59	4-Nitroaniline	50.00	52.61	105.21	70-130
60	4,6-Dinitro-2-meth	50.00	55.31	110.62	70-130
61	N-nitrosodiphenyla	50.00	43.28	86.57	70-130
65	4-Bromophenyl phen	50.00	51.29	102.59	70-130
66	Hexachlorobenzene	50.00	49.85	99.70	70-130
144	Carbazole	50.00	53.20	106.39	70-130
68	Pentachlorophenol*	50.00	53.45	106.90	70-130
72	Phenanthrene	50.00	50.93	101.87	70-130
73	Anthracene	50.00	54.97	109.94	70-130
78	Di-n-butylphthalat	50.00	55.15	110.30	70-130
80	Fluoranthene*	50.00	54.69	109.38	70-130
81	Pyrene	50.00	51.90	103.80	70-130
85	Butyl benzyl phtha	50.00	52.26	104.51	70-130
89	3 3'-Dichlorobenzi	50.00	53.92	107.84	70-130
88	Benzo(a)Anthracene	50.00	52.11	104.22	70-130
91	Chrysene	50.00	51.43	102.86	70-130
93	bis(2-ethylhexyl)P	50.00	55.60	111.21	70-130
94	Di-n-octyl phthala	50.00	59.42	118.84	70-130
95	Benzo(b)fluoranthe	50.00	54.17	108.34	70-130
96	Benzo(k)fluoranthe	50.00	53.24	106.49	70-130
97	Benzo(e)pyrene	50.00	53.00	106.00	70-130
98	Benzo(a)pyrene*	50.00	55.86	111.72	70-130
103	Indeno(1,2,3-cd)py	50.00	55.52	111.03	70-130
104	Dibenzo(a,h)anthra	50.00	51.07	102.14	70-130
105	Benzo(g,h,i)peryle	50.00	54.94	109.87	70-130

Data File: /chem/msdp.i/p21dec07.b/p122113.d
Date : 21-DEC-2007 15:19
Client ID: LCS
Sample Info: ;1500-79-50;LCS
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



0099

Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

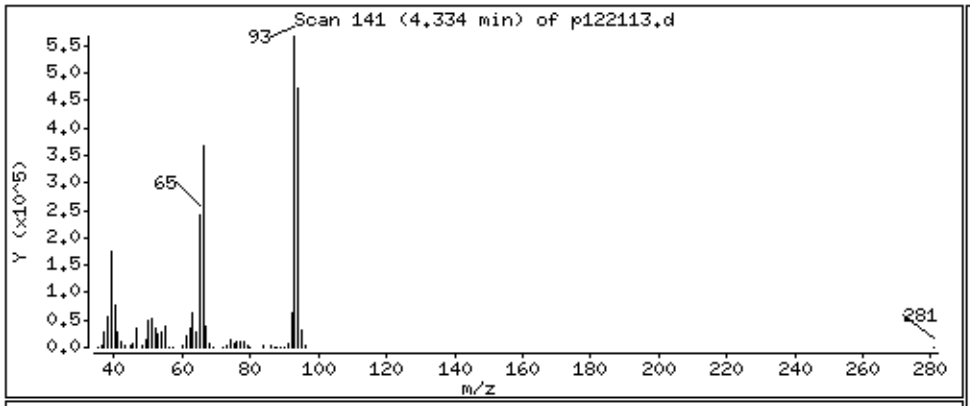
Operator: LP

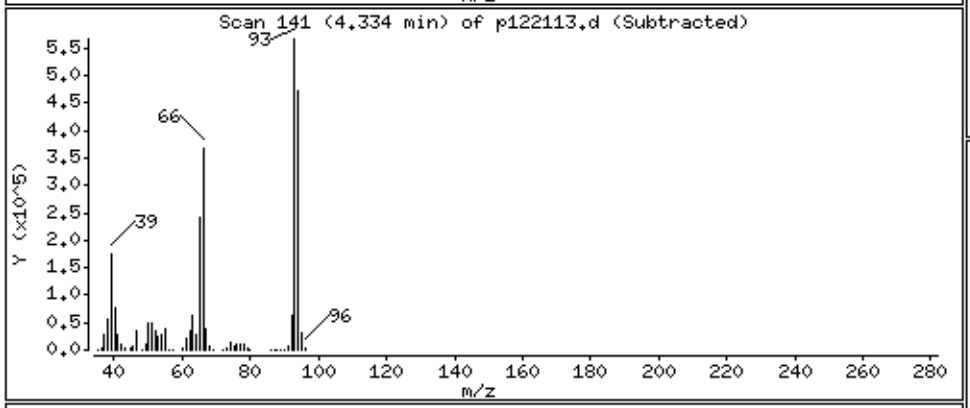
Column phase: DB-5.625

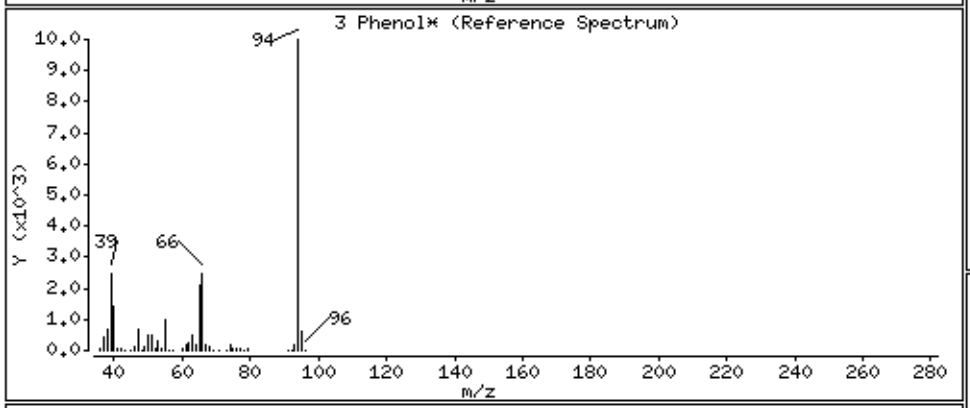
Column diameter: 0.25

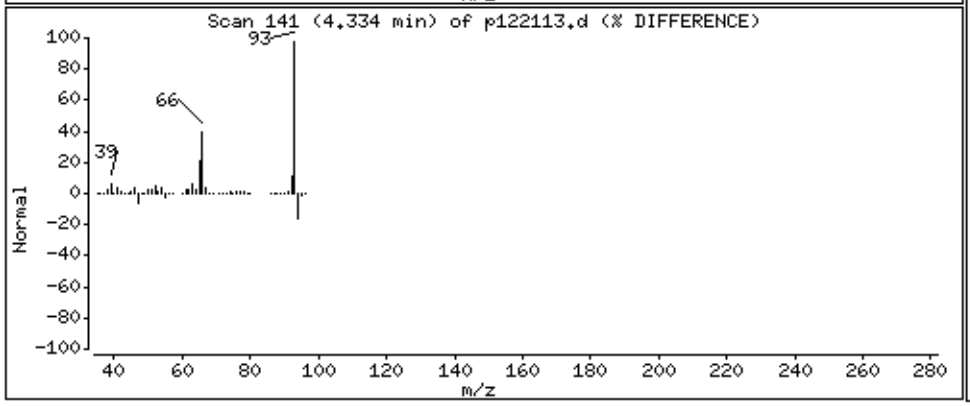
3 Phenol*

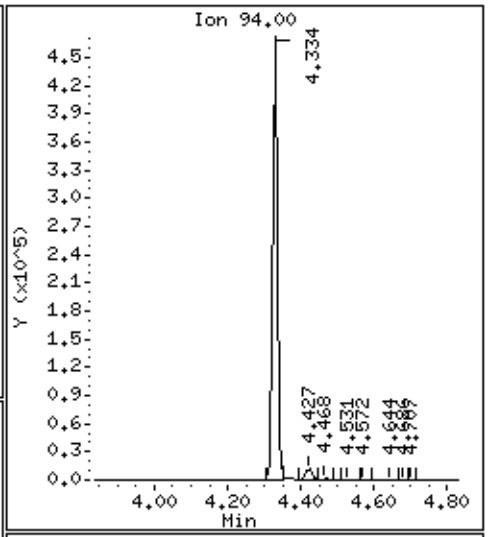
Concentration: 50.48 ug

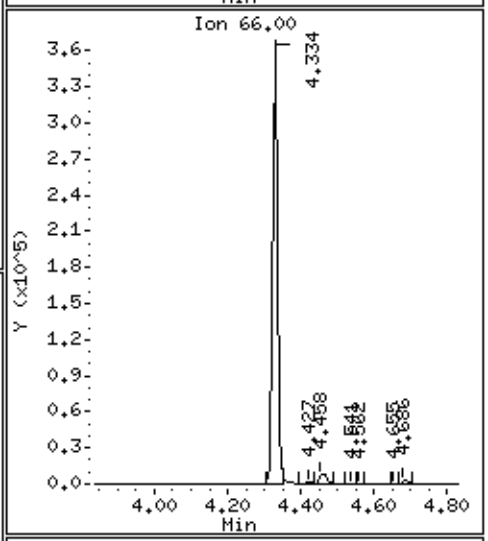


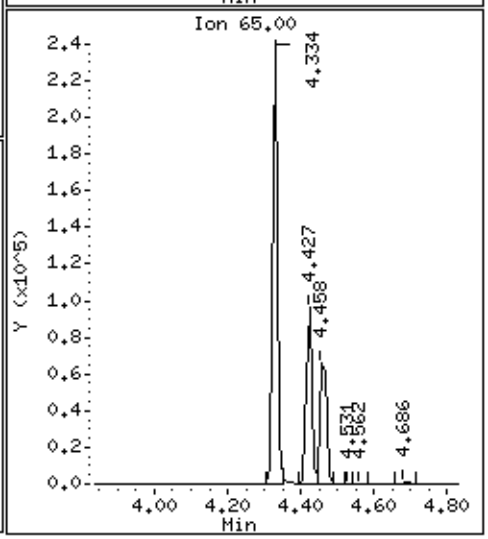












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

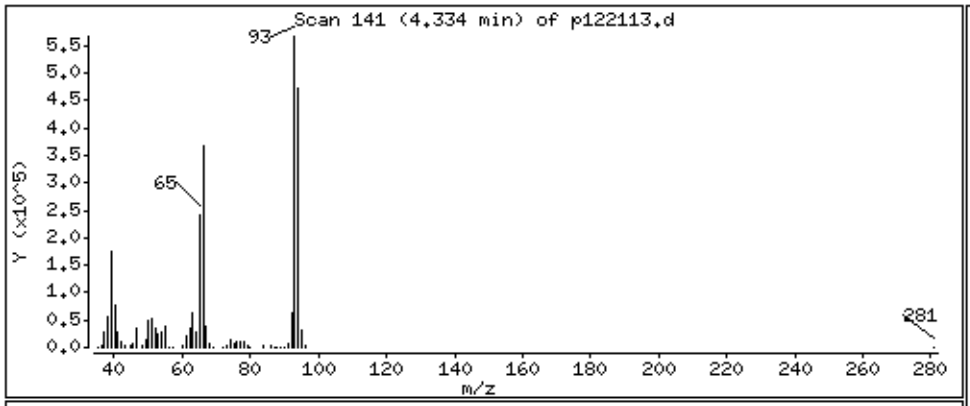
Operator: LP

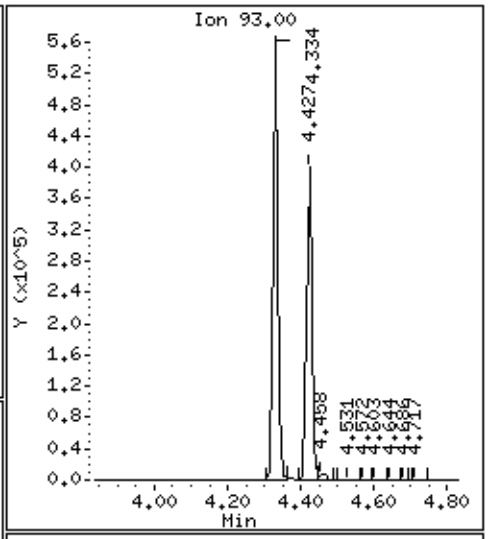
Column phase: DB-5.625

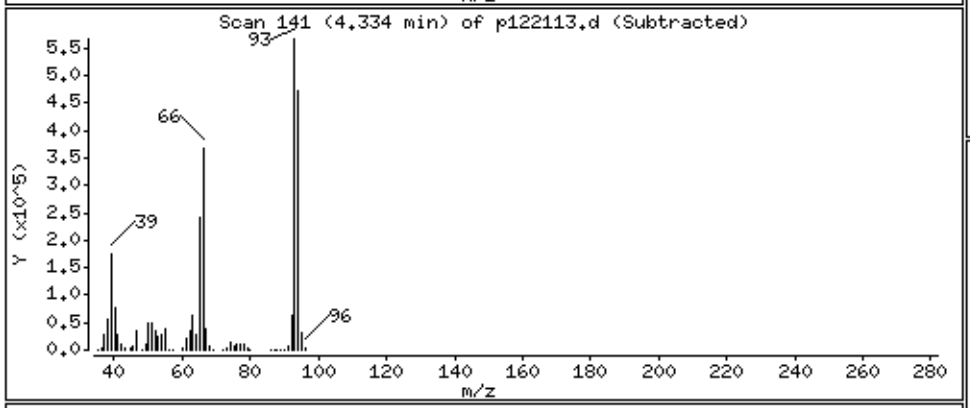
Column diameter: 0.25

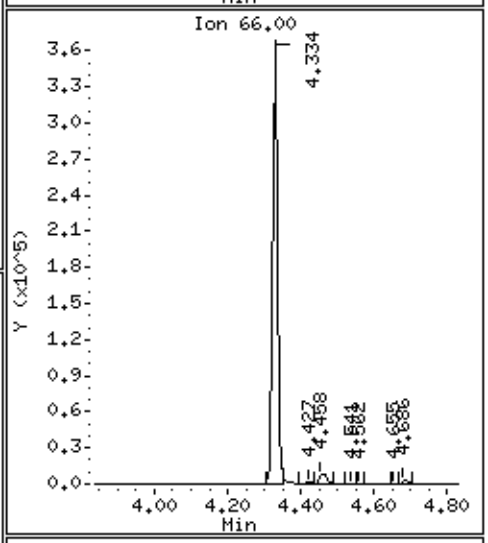
41 Aniline

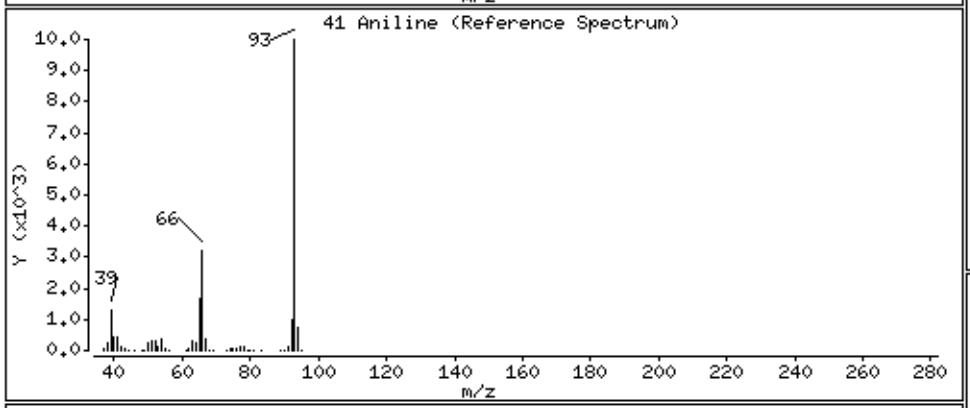
Concentration: 50.18 ug

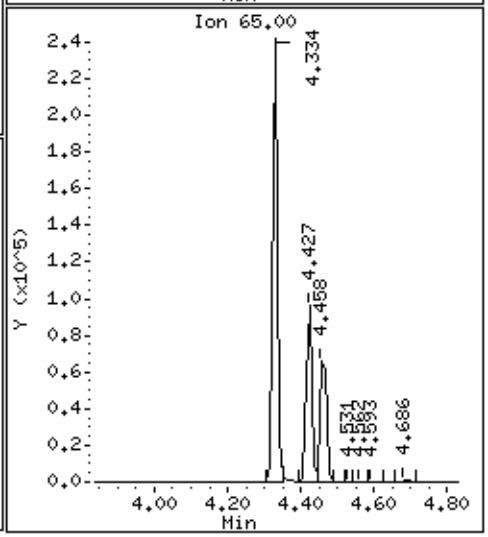


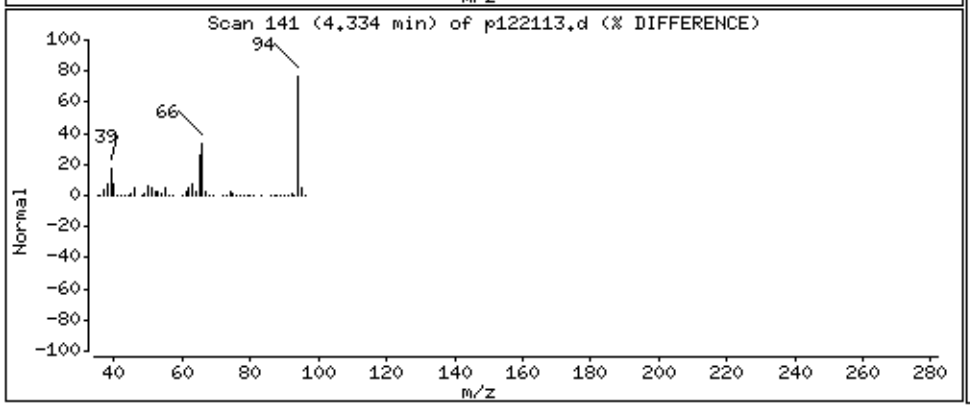












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

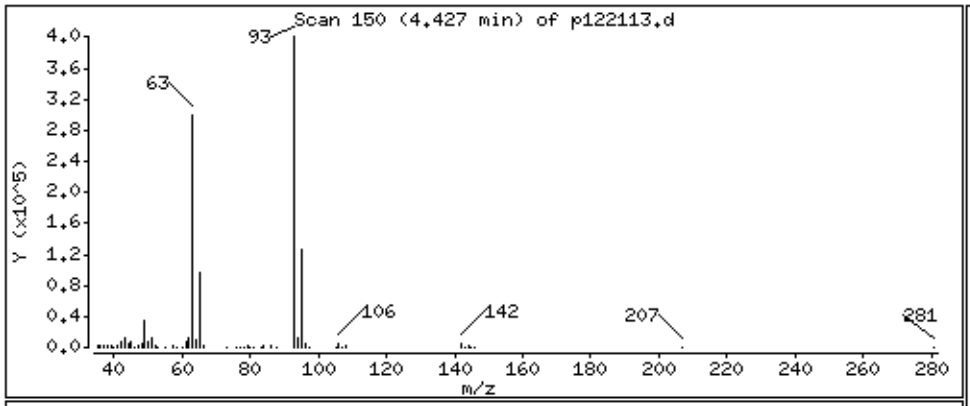
Operator: LP

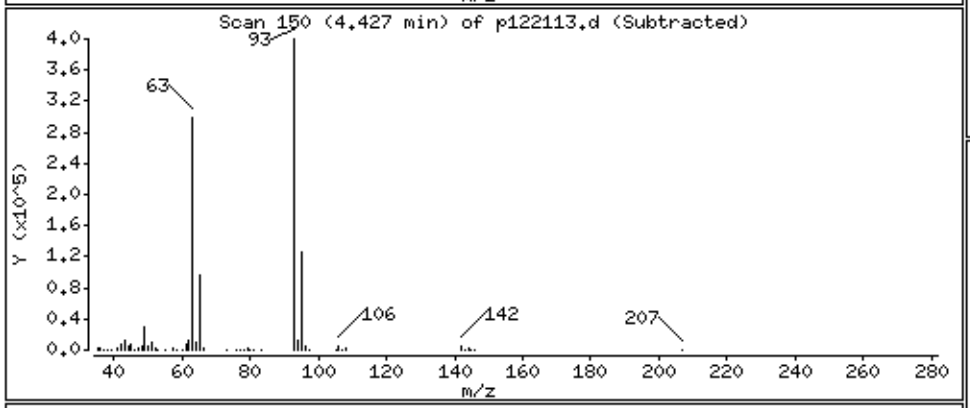
Column phase: DB-5.625

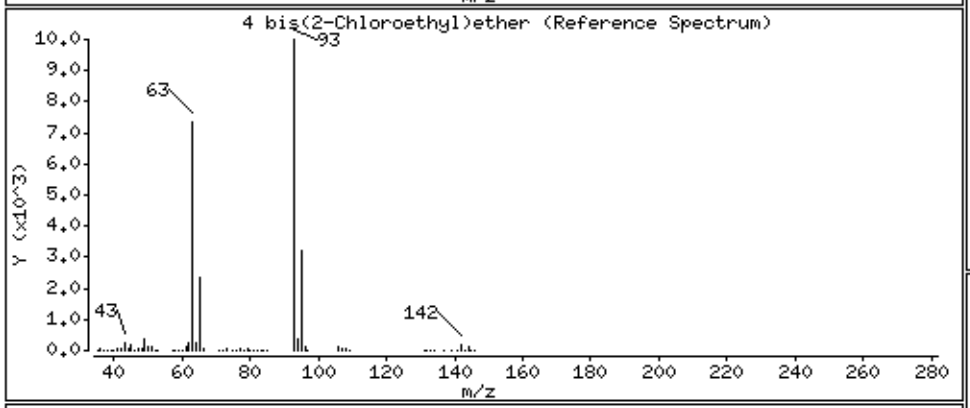
Column diameter: 0.25

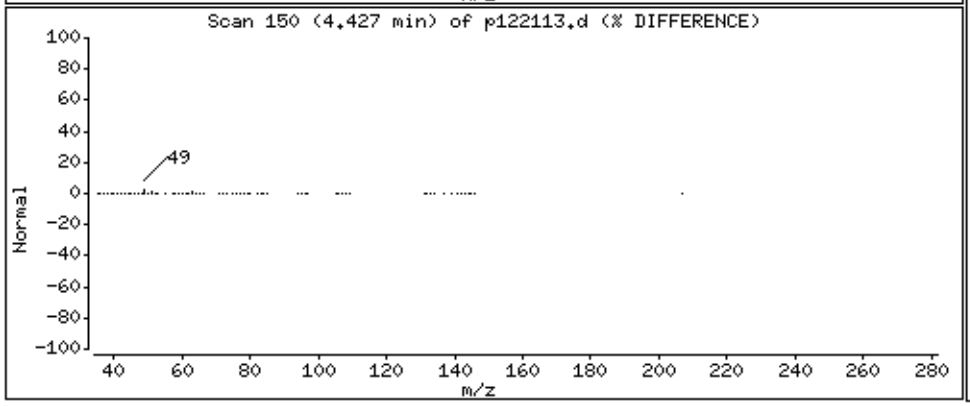
4 bis(2-Chloroethyl)ether

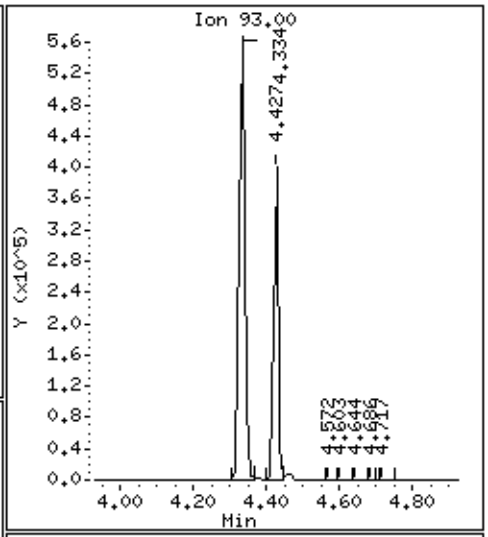
Concentration: 49.50 ug

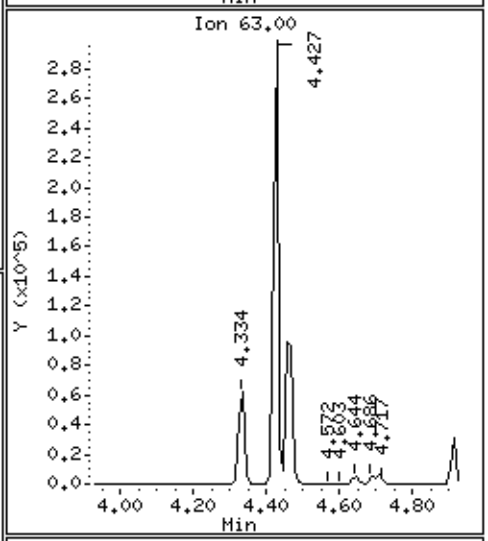


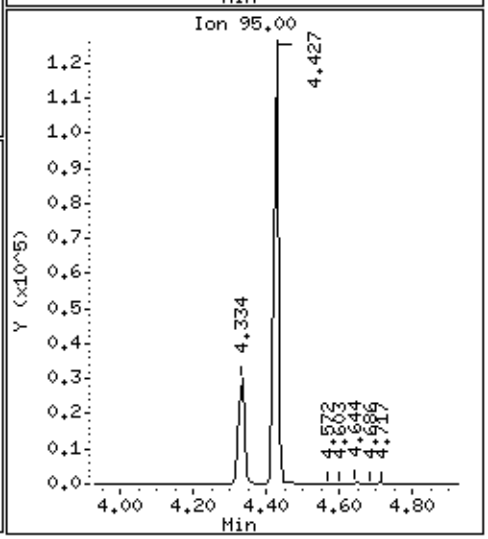












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

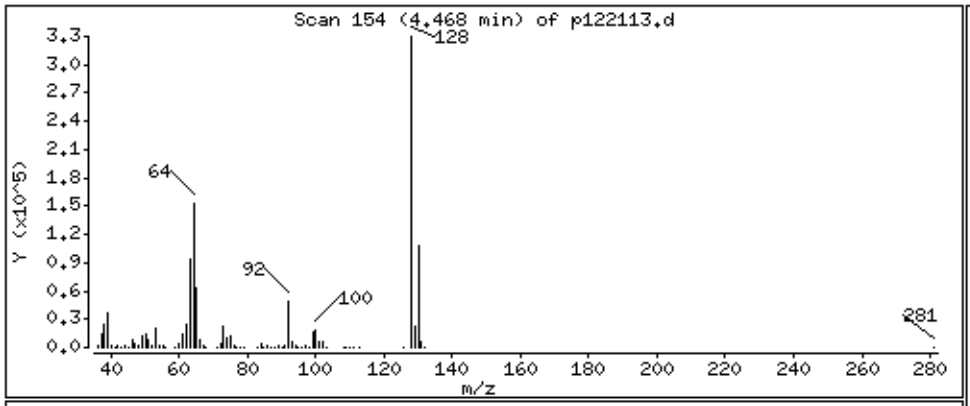
Operator: LP

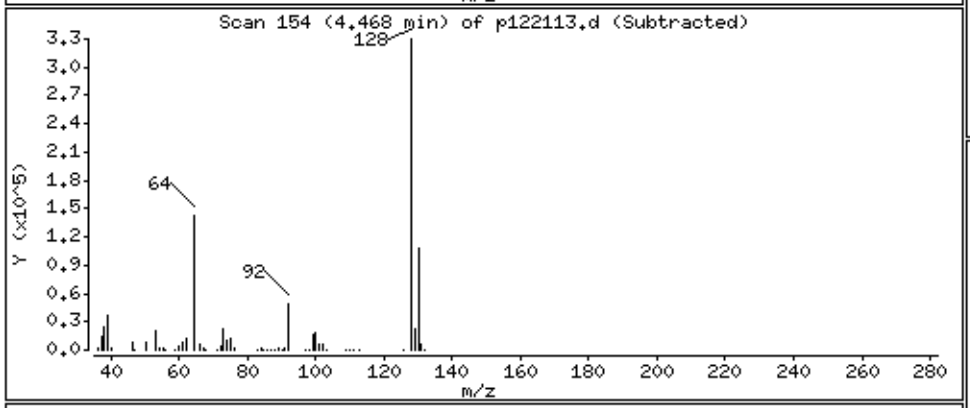
Column phase: DB-5.625

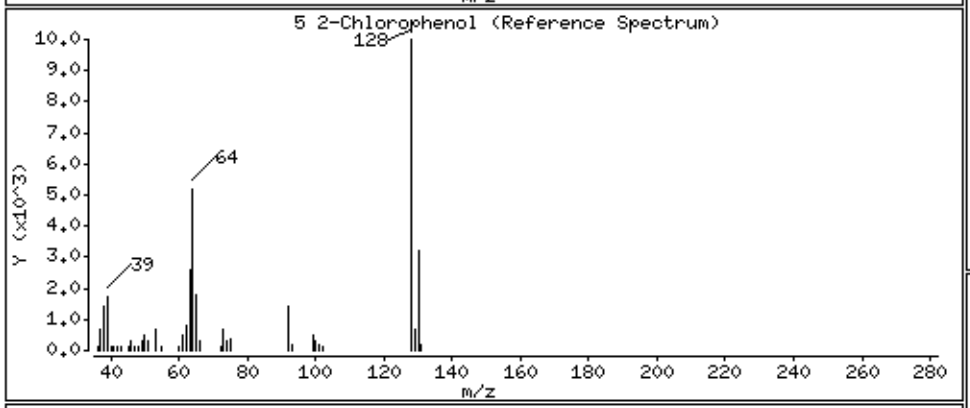
Column diameter: 0.25

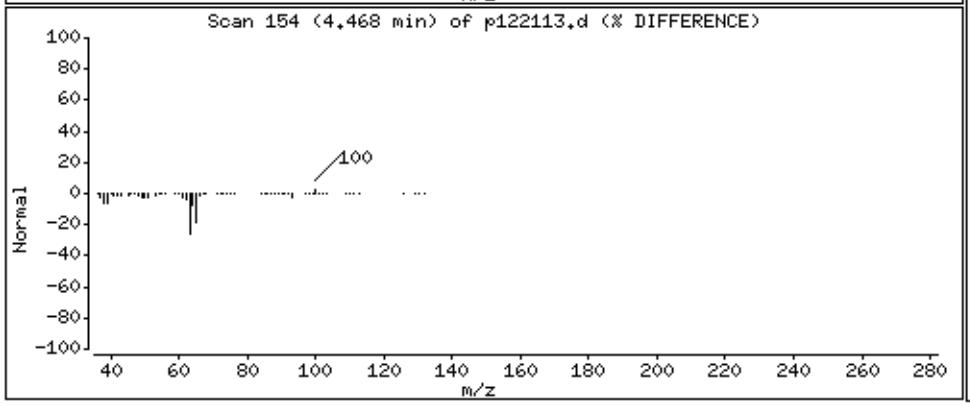
5 2-Chlorophenol

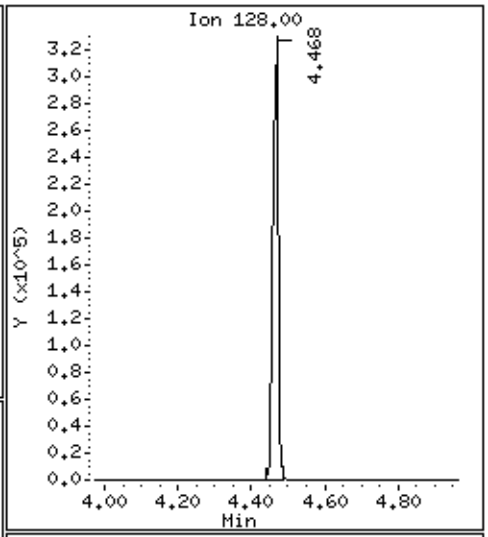
Concentration: 51.48 ug

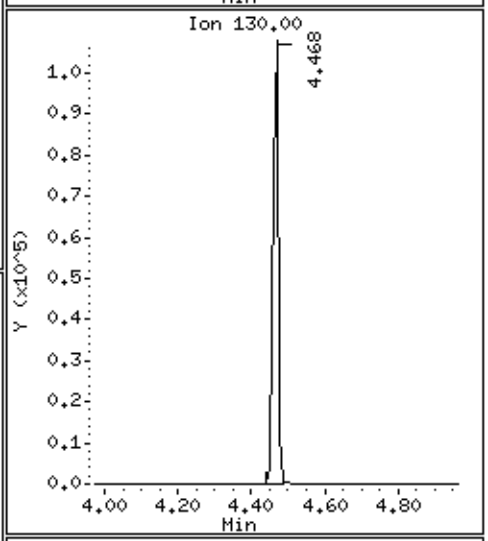


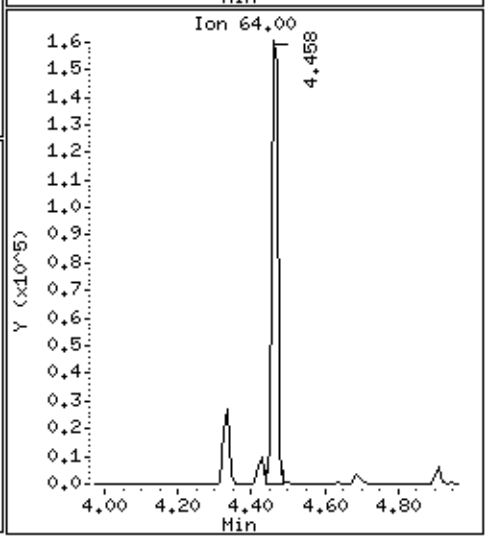












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

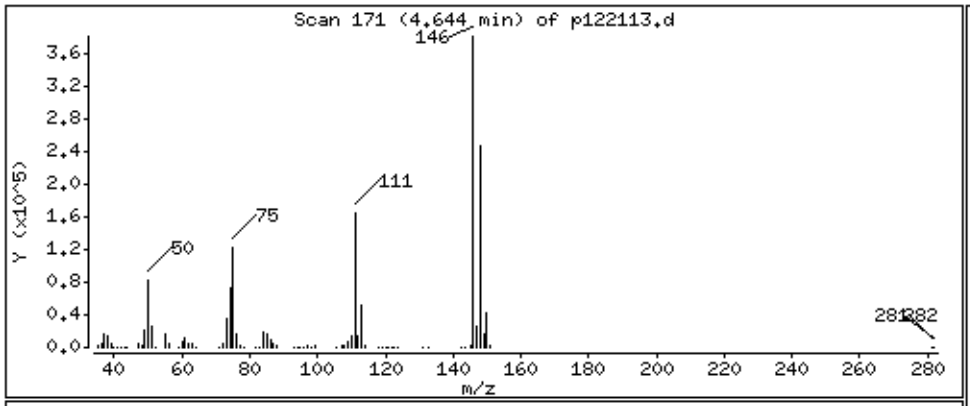
Operator: LP

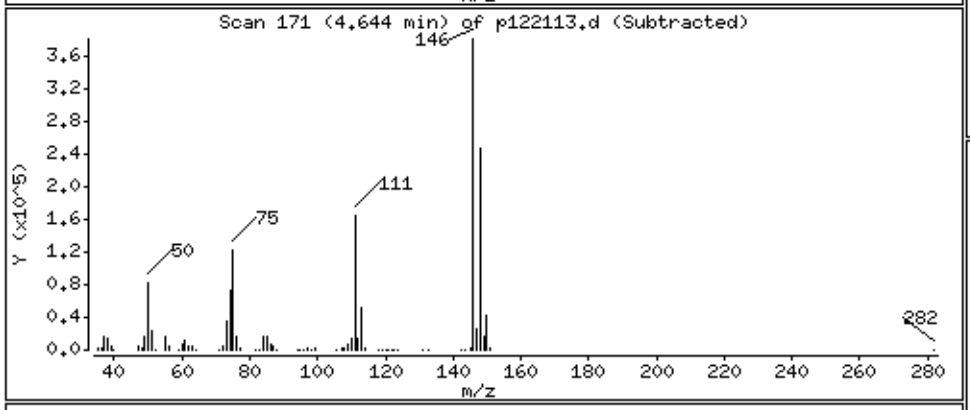
Column phase: DB-5.625

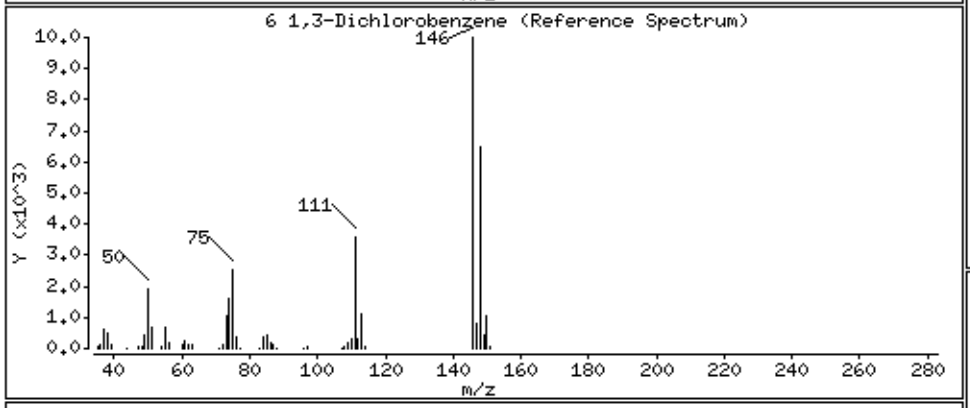
Column diameter: 0.25

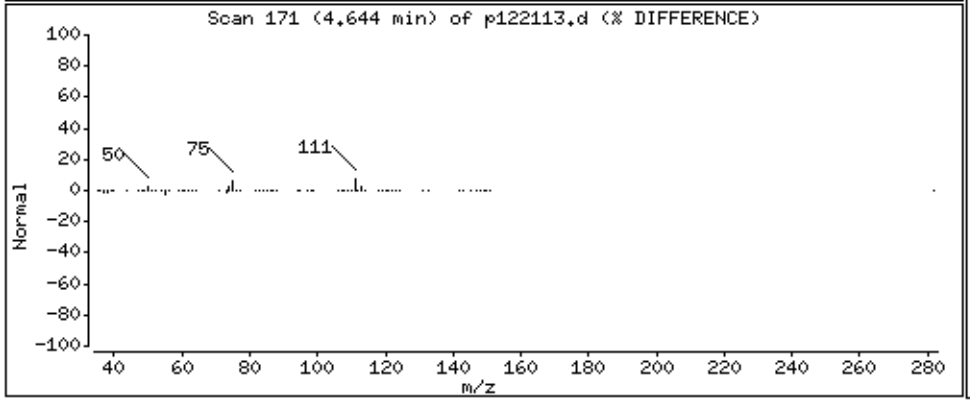
6 1,3-Dichlorobenzene

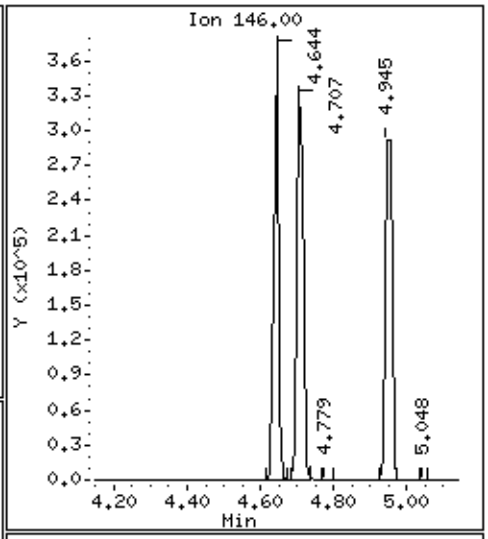
Concentration: 49.31 ug

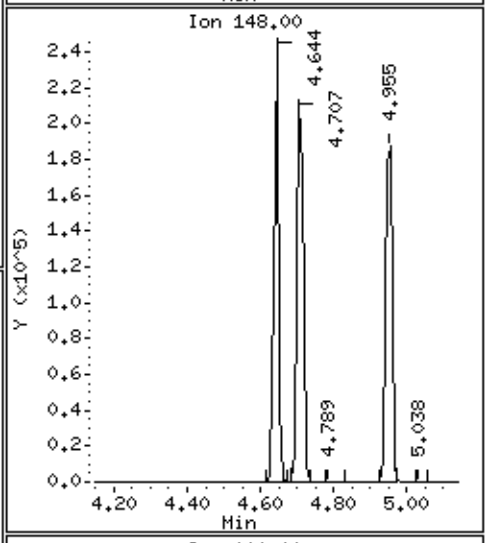


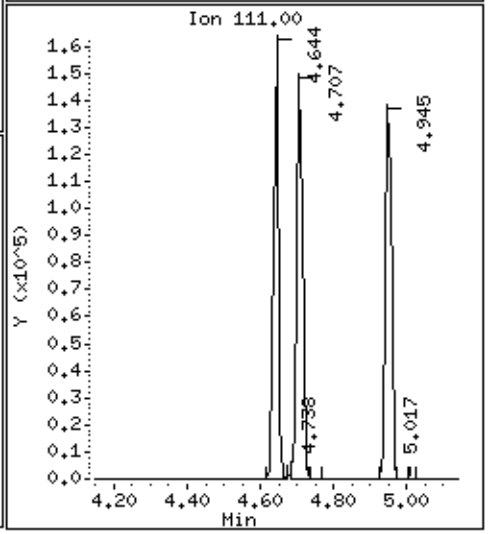












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

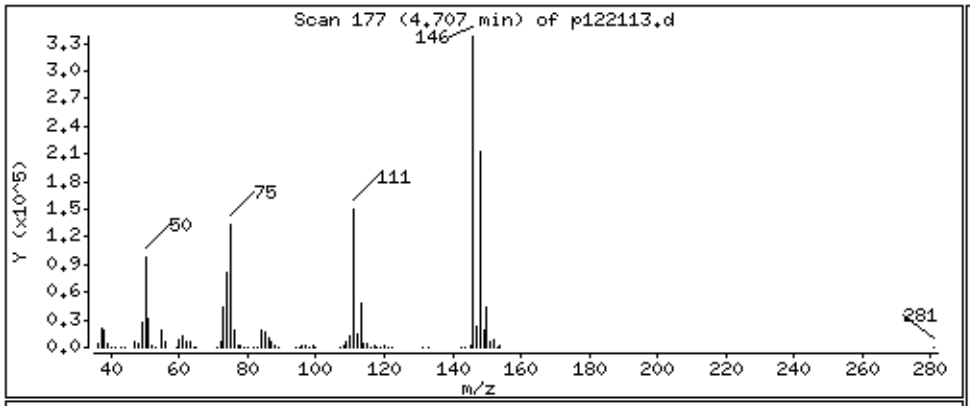
Operator: LP

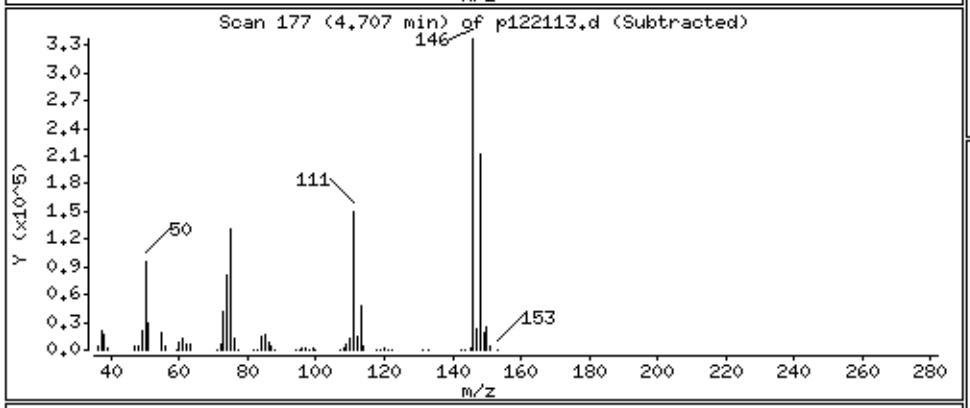
Column phase: DB-5.625

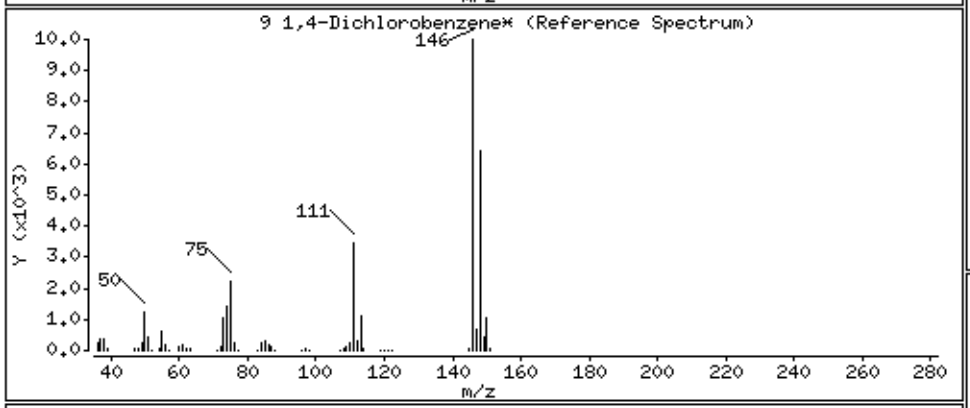
Column diameter: 0.25

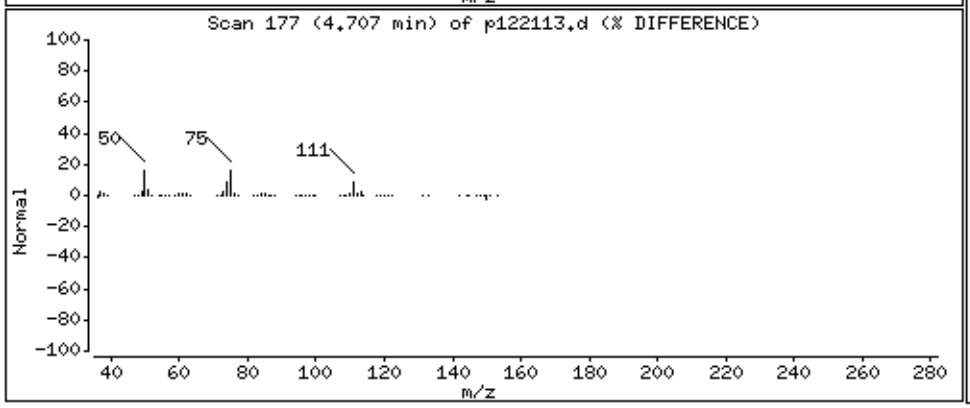
9 1,4-Dichlorobenzene*

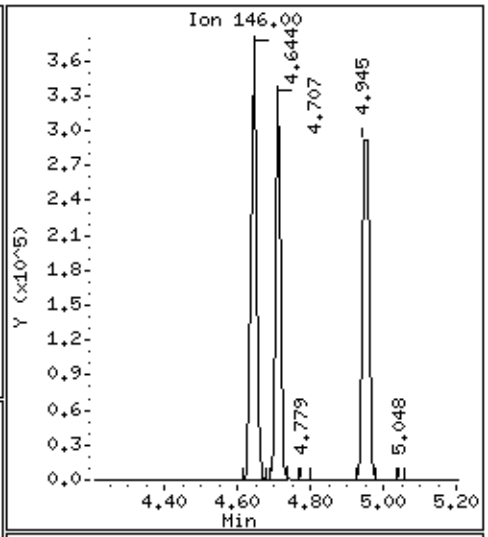
Concentration: 49.03 ug

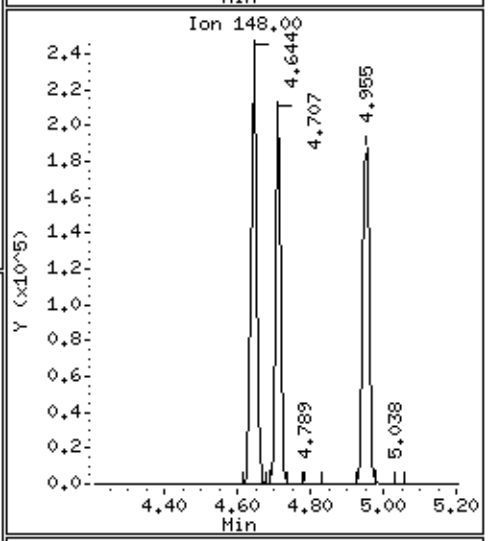


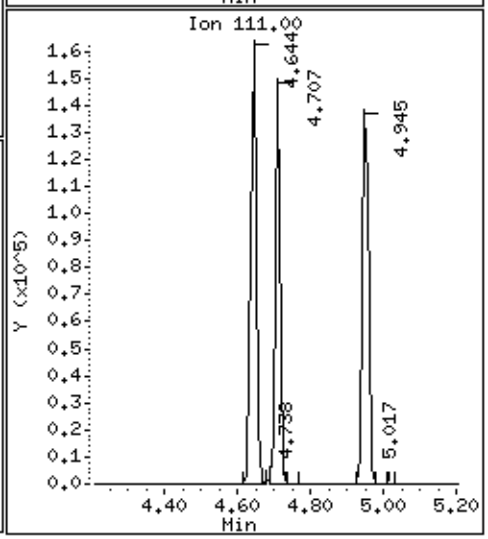












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

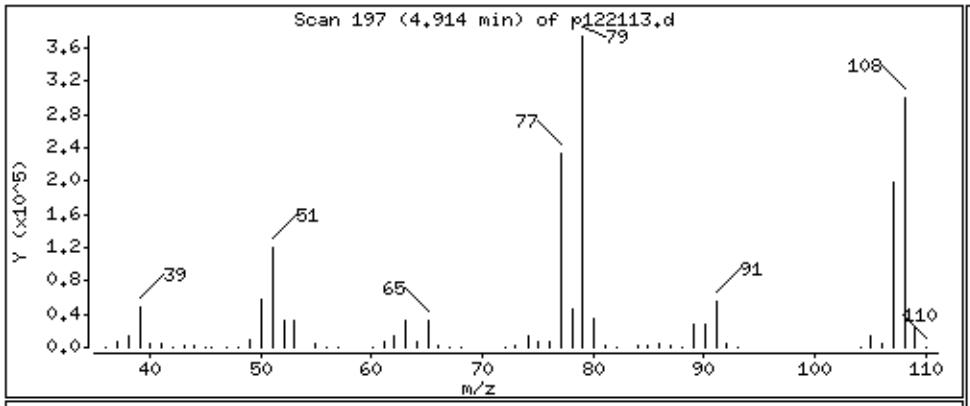
Operator: LP

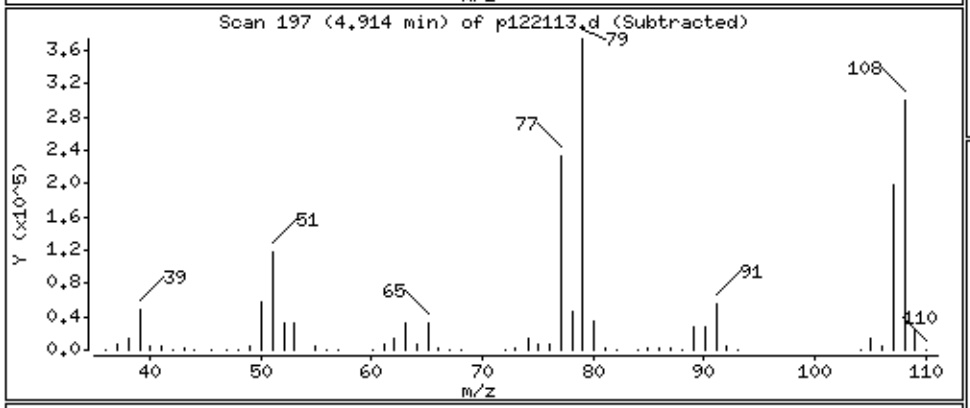
Column phase: DB-5.625

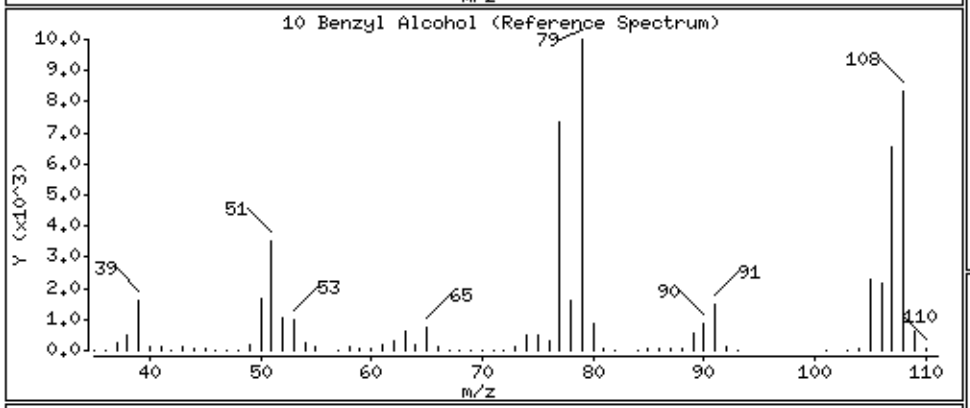
Column diameter: 0.25

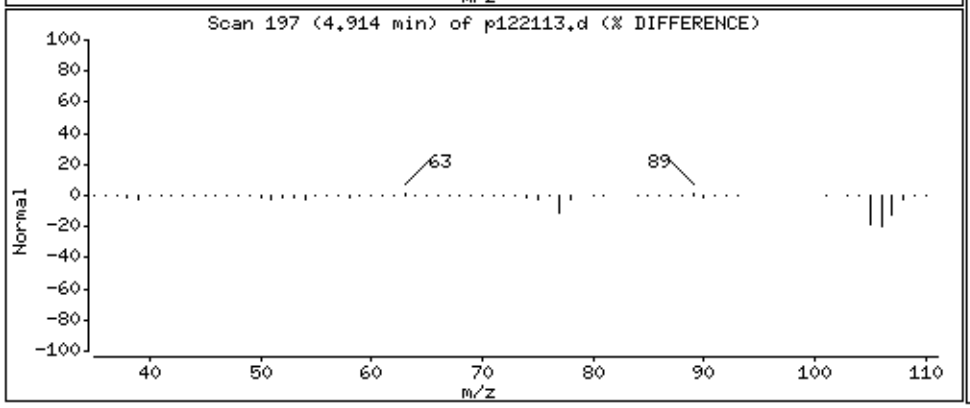
10 Benzyl Alcohol

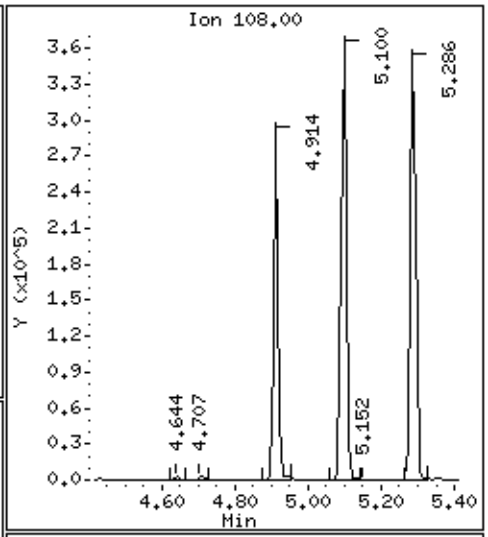
Concentration: 52.72 ug

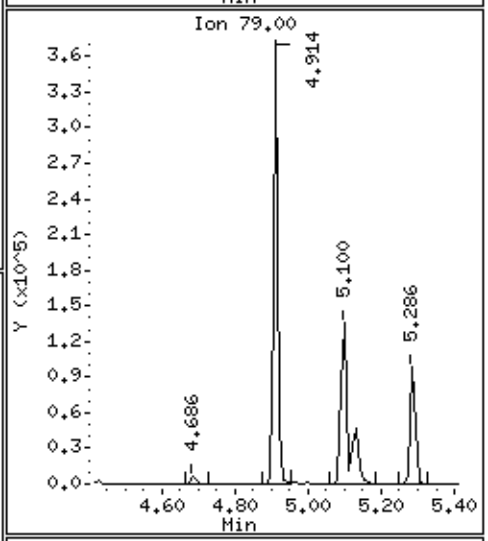


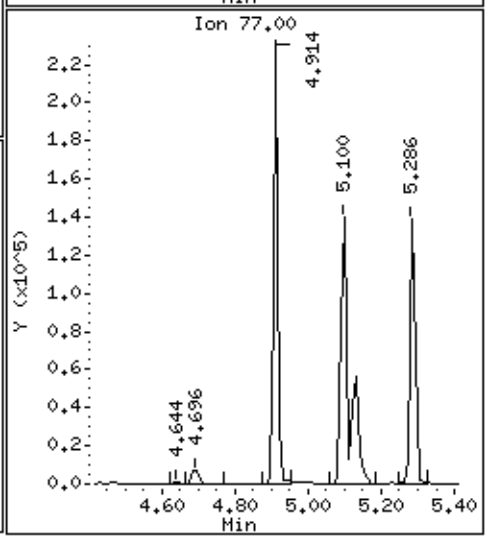












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

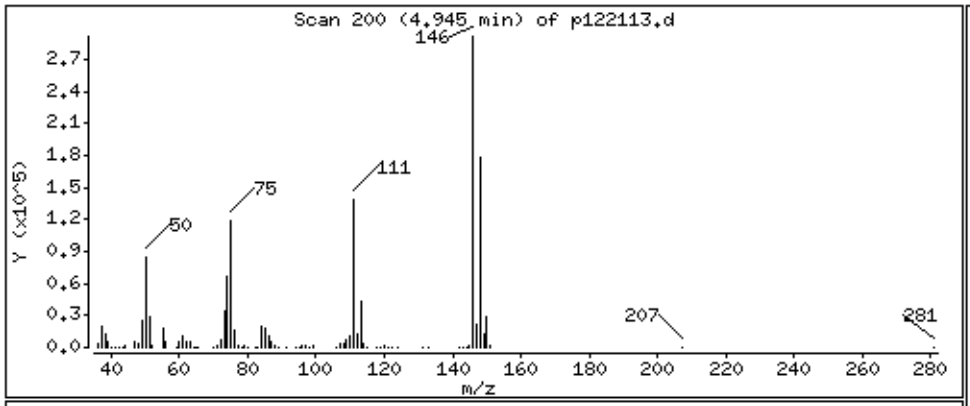
Operator: LP

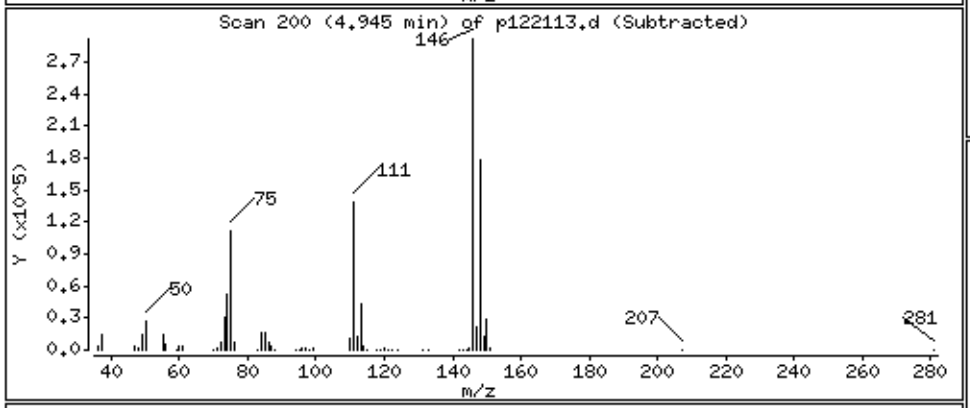
Column phase: DB-5.625

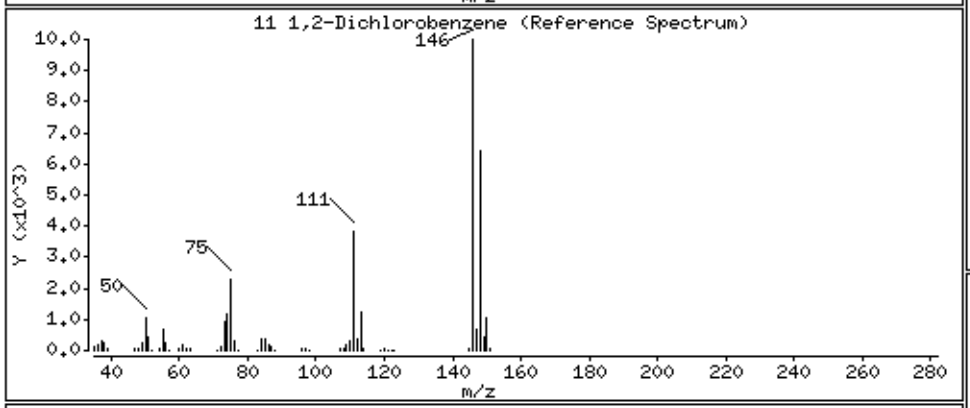
Column diameter: 0.25

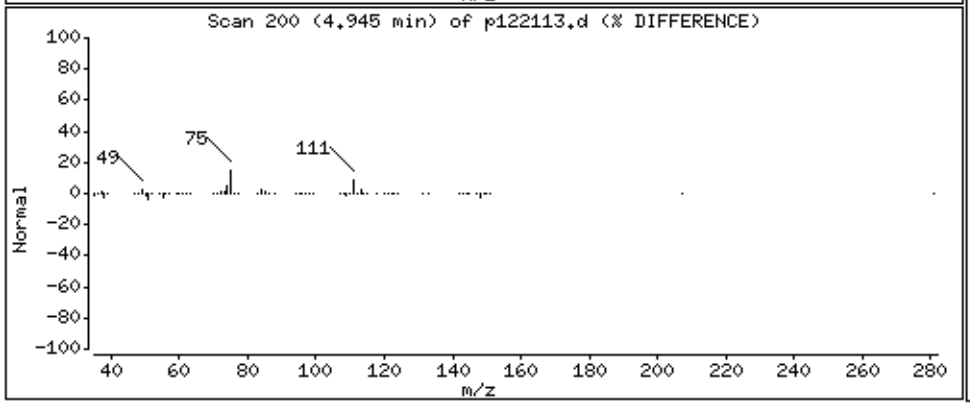
11 1,2-Dichlorobenzene

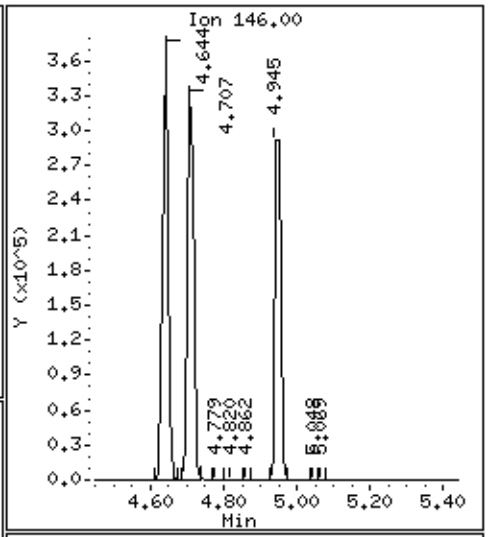
Concentration: 50.99 ug

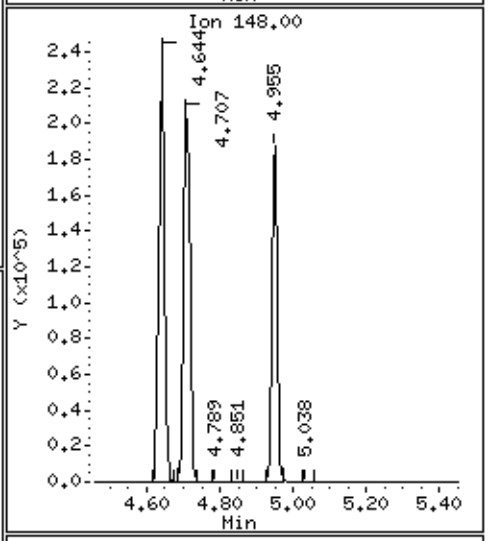


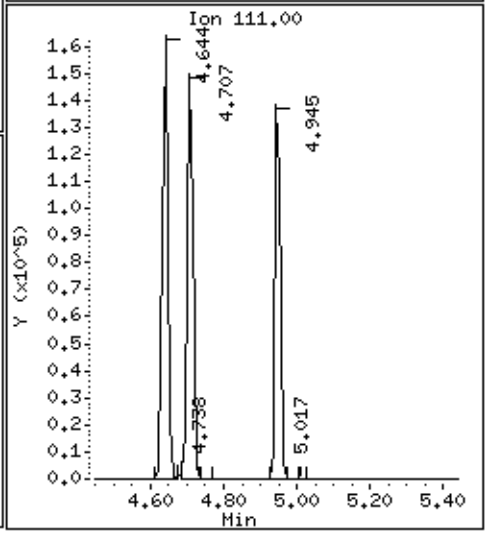












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

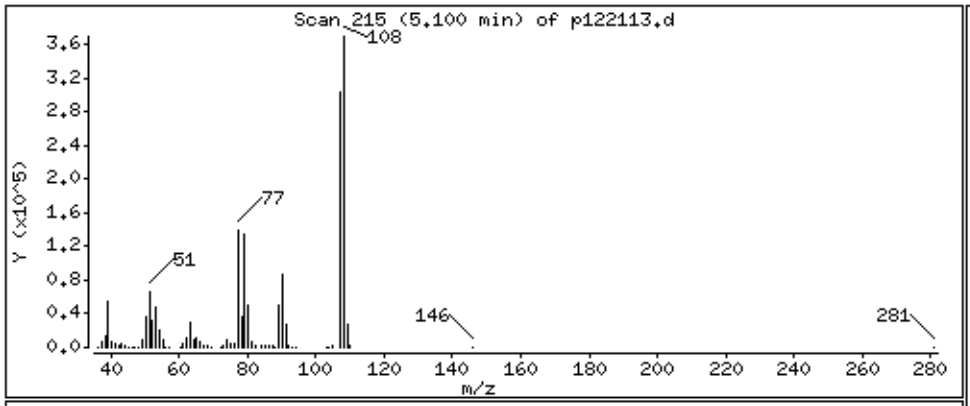
Operator: LP

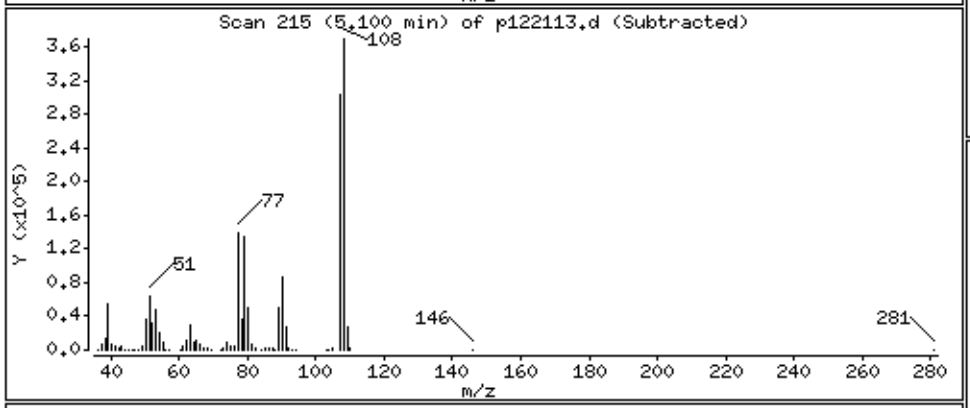
Column phase: DB-5.625

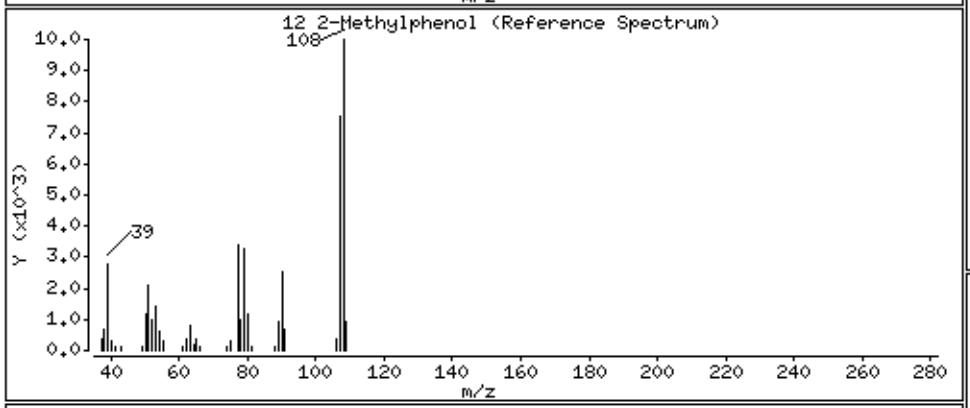
Column diameter: 0.25

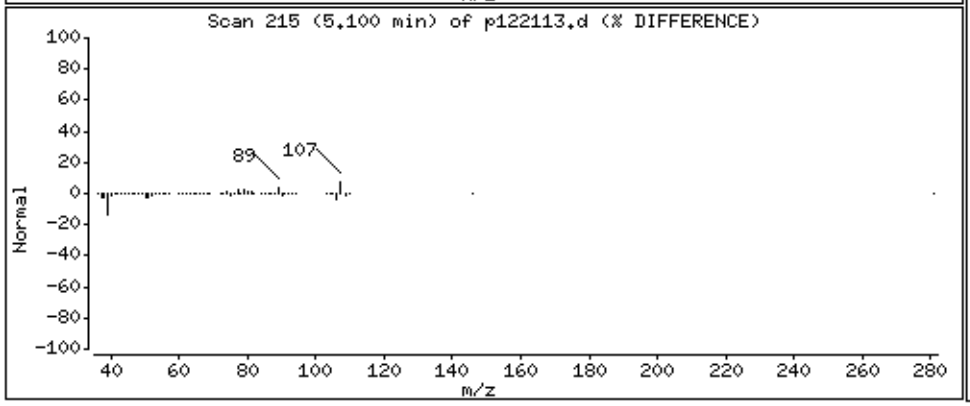
12 2-Methylphenol

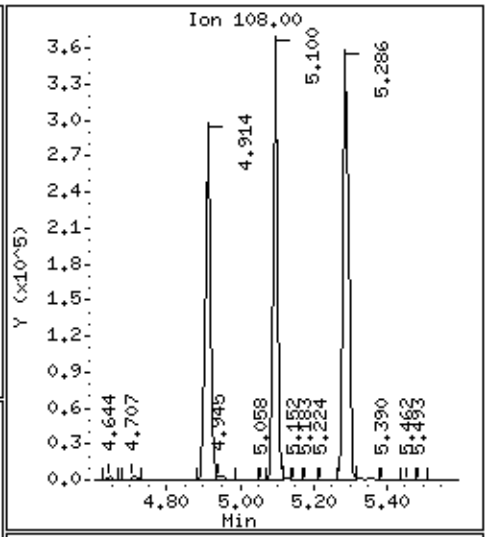
Concentration: 50.58 ug

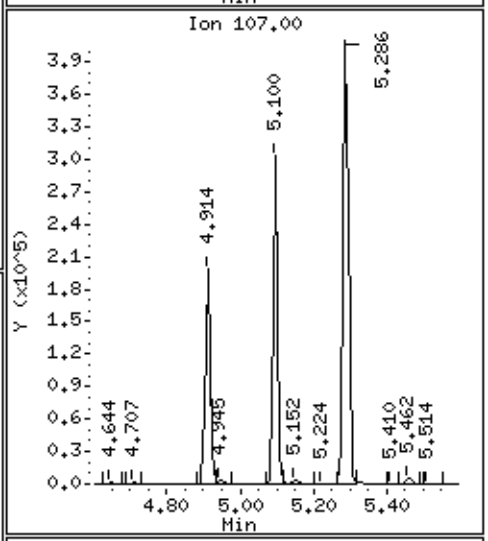


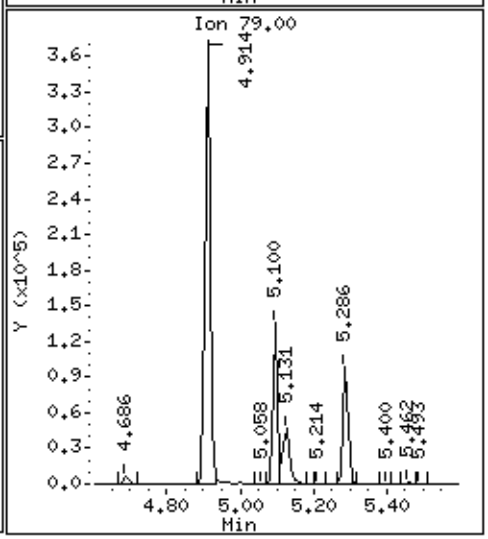












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

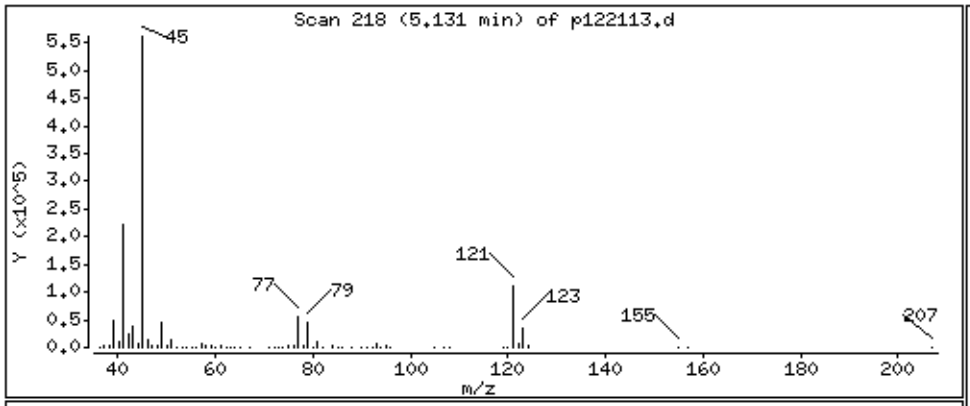
Operator: LP

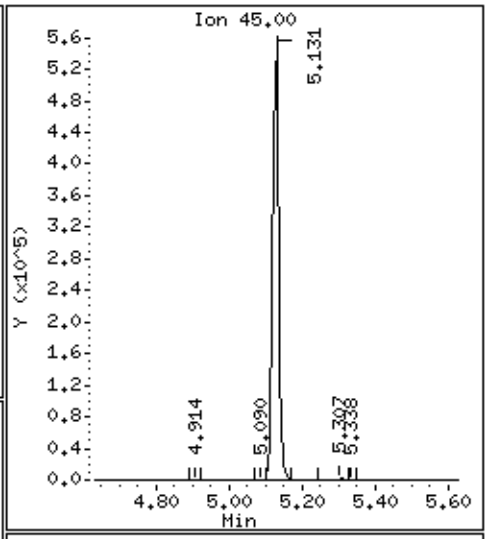
Column phase: DB-5.625

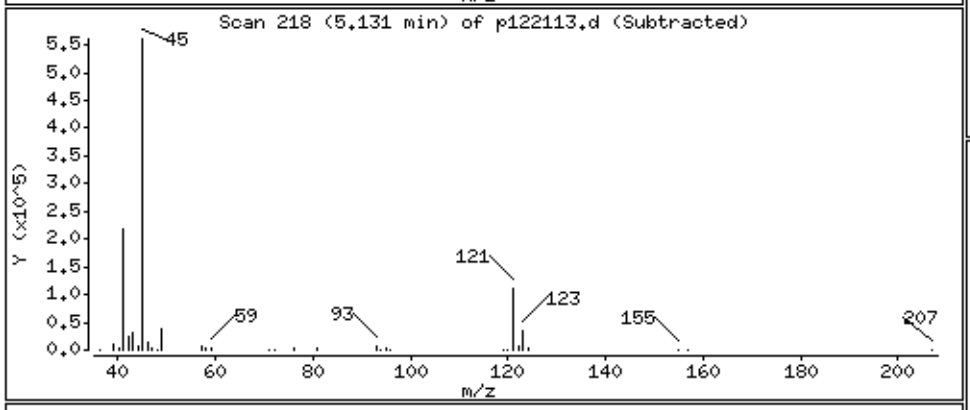
Column diameter: 0.25

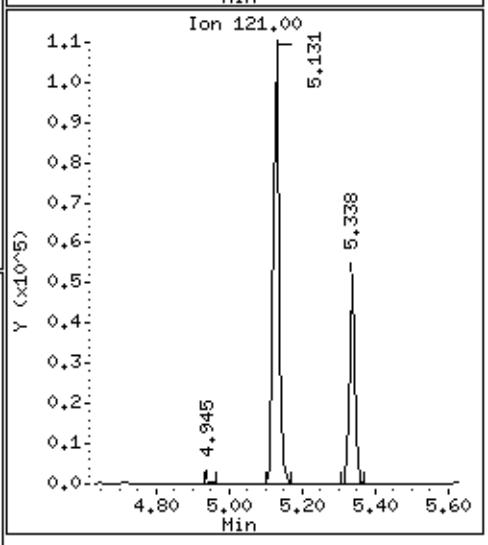
13 bis(2-Chloroisopropyl)ether

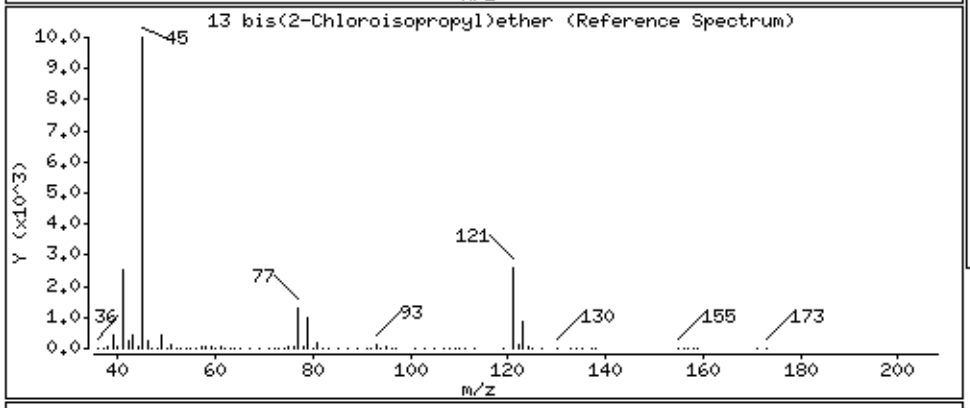
Concentration: 49.70 ug

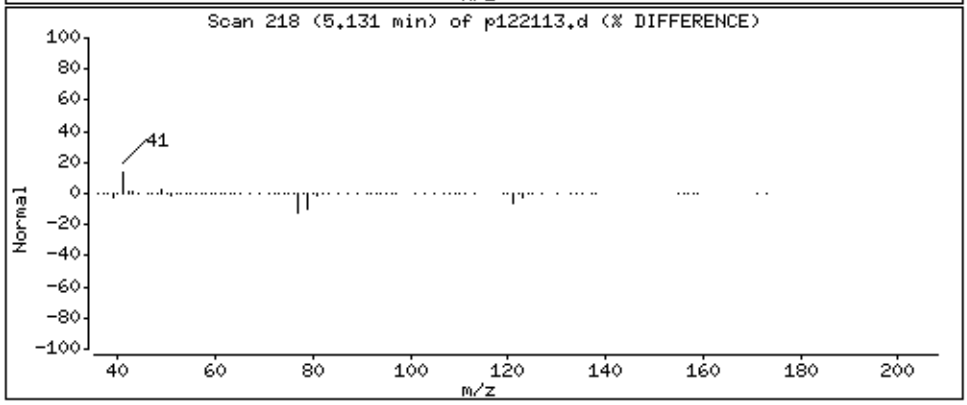












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

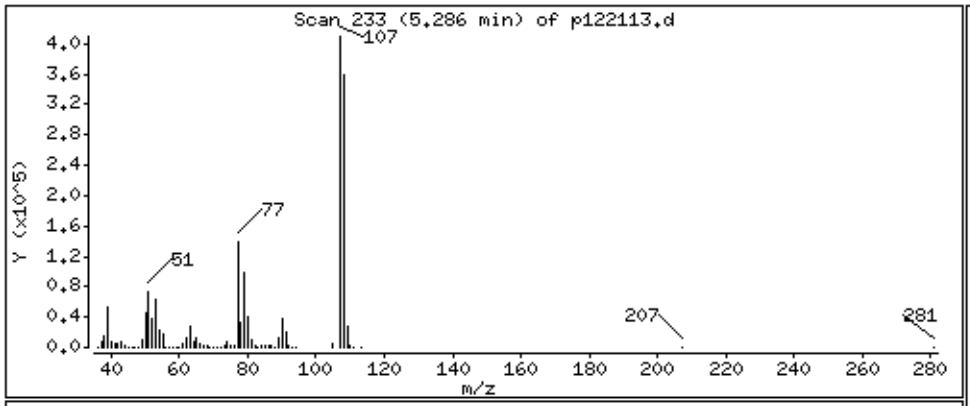
Operator: LP

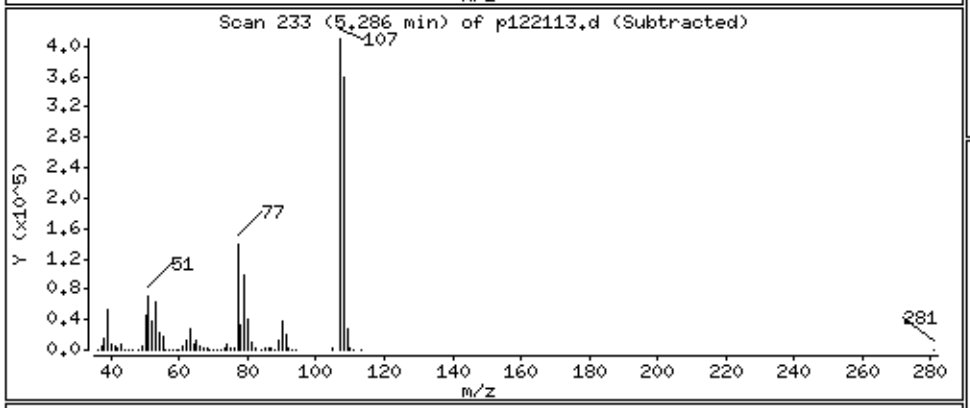
Column phase: DB-5.625

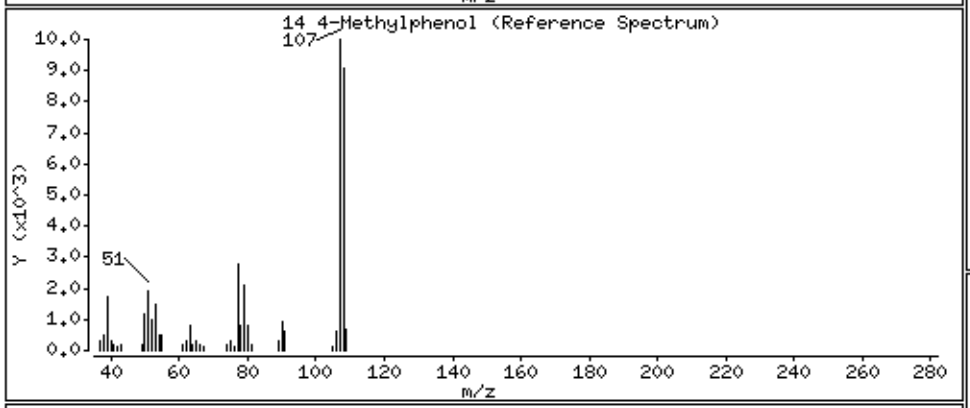
Column diameter: 0.25

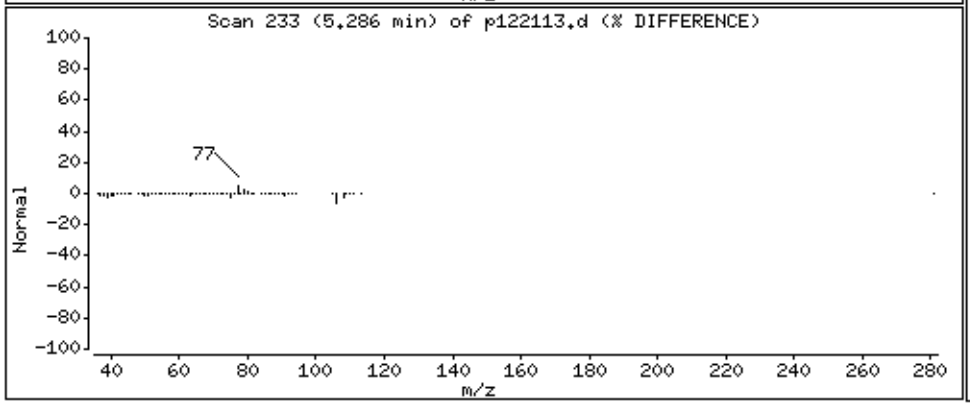
14 4-Methylphenol

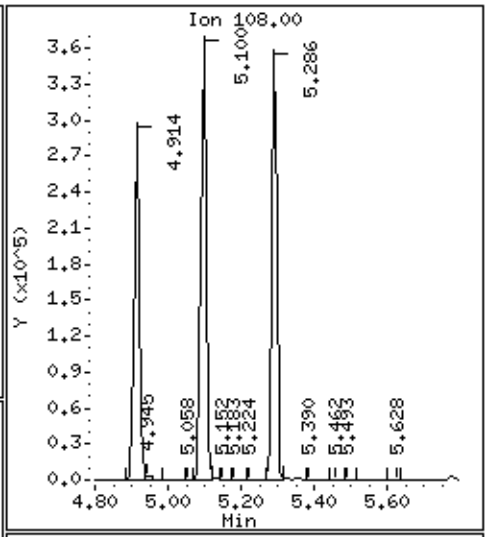
Concentration: 49.50 ug

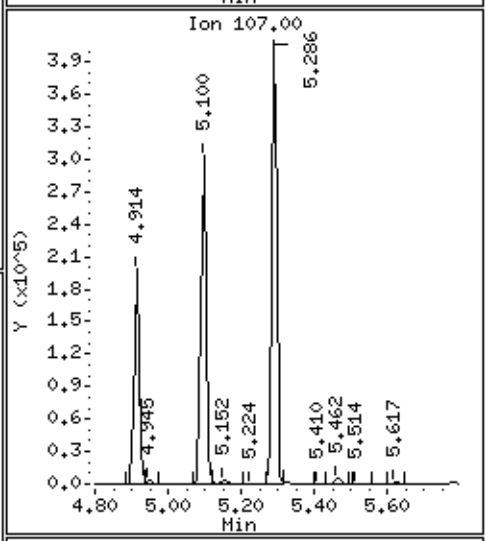


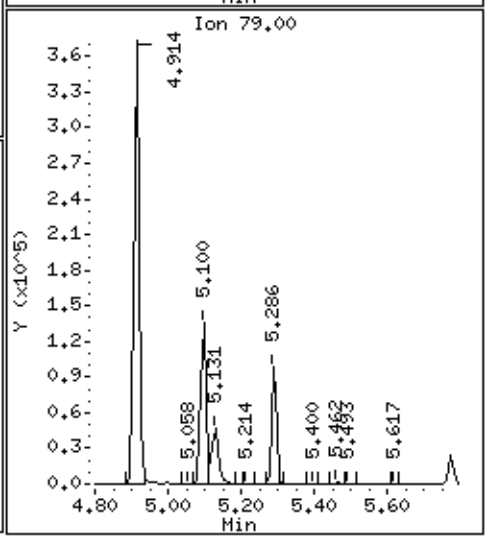












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

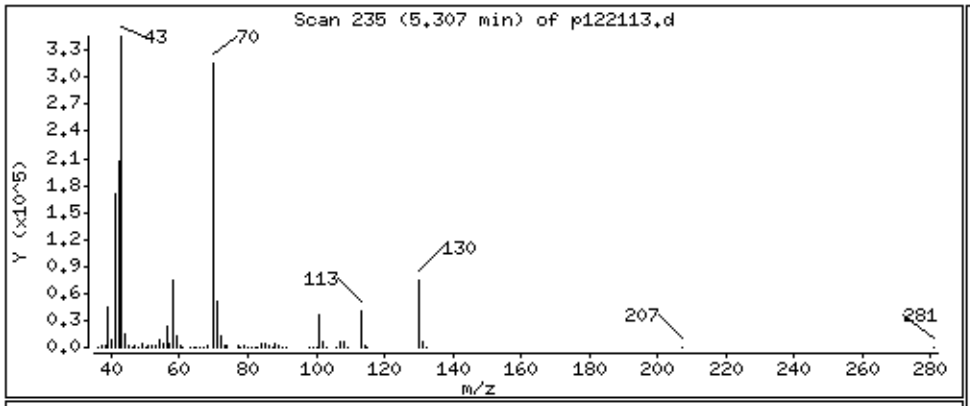
Operator: LP

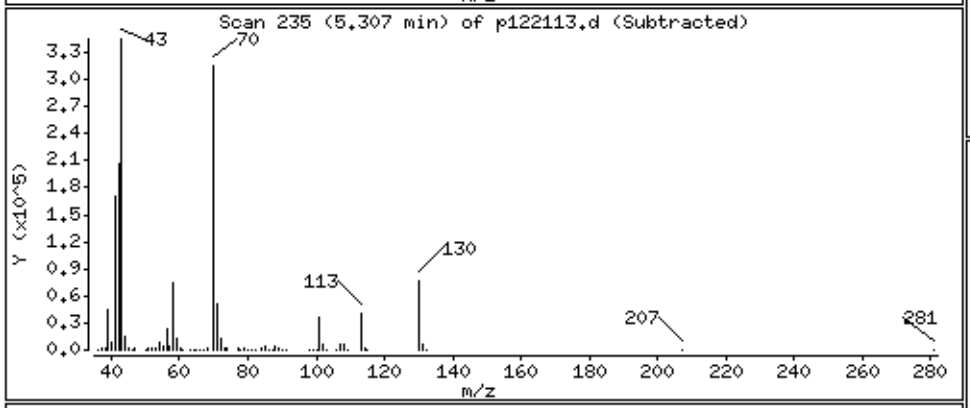
Column phase: DB-5.625

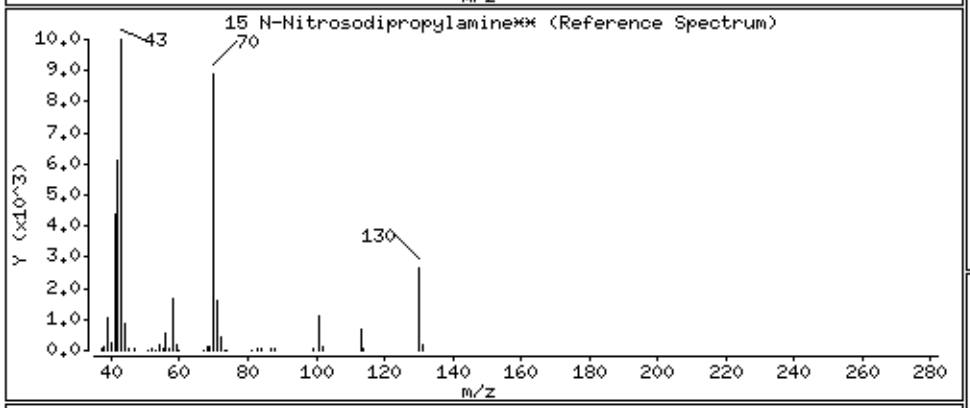
Column diameter: 0.25

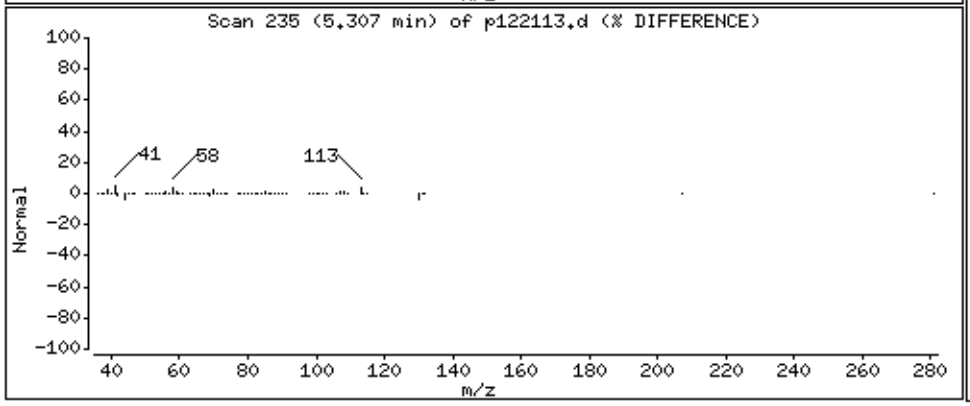
15 N-Nitrosodipropylamine**

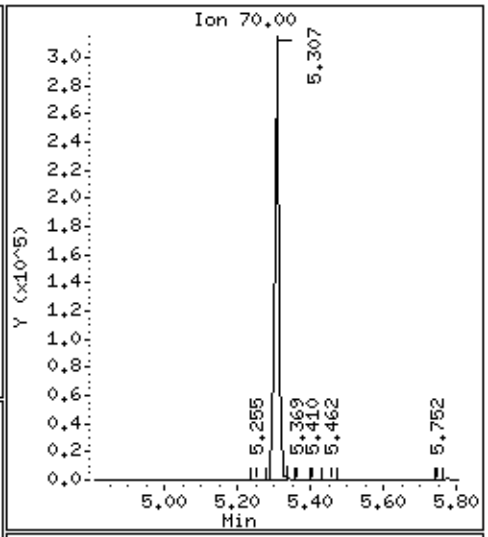
Concentration: 50.76 ug

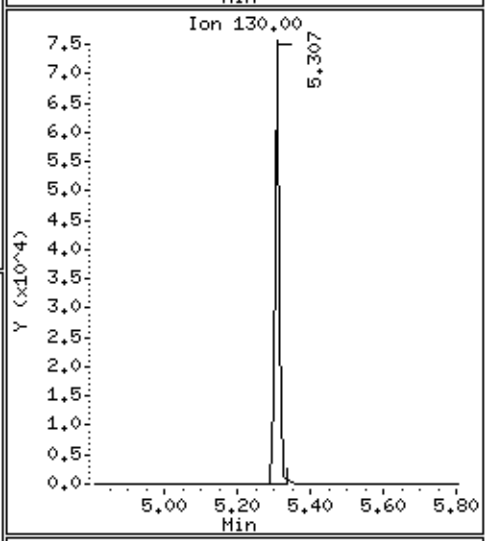


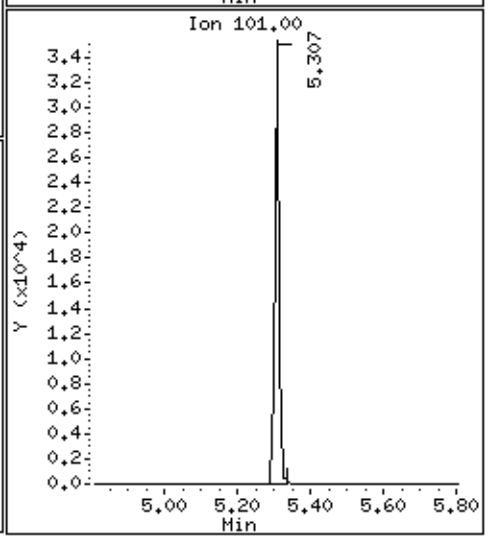












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

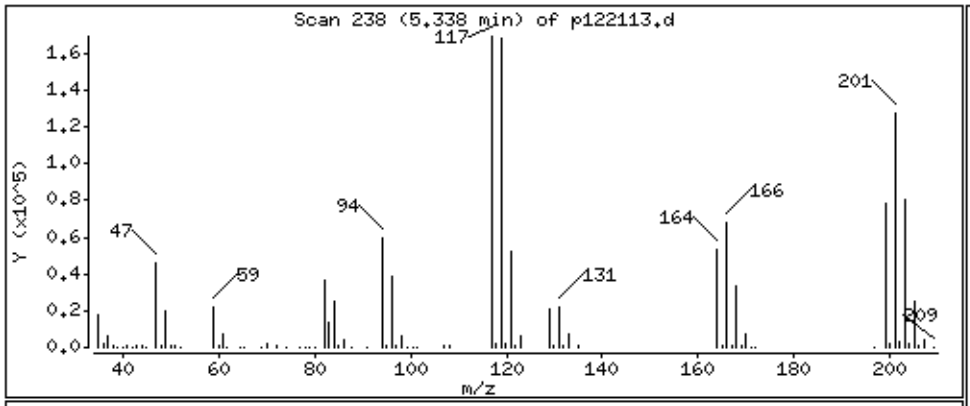
Operator: LP

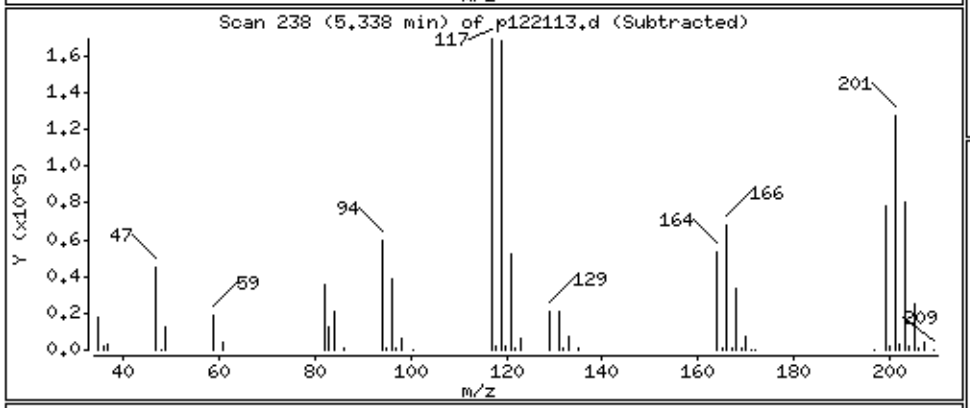
Column phase: DB-5.625

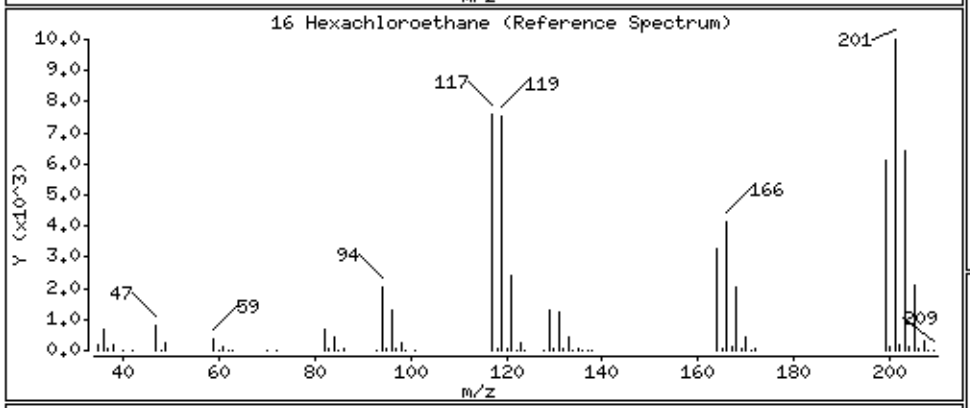
Column diameter: 0.25

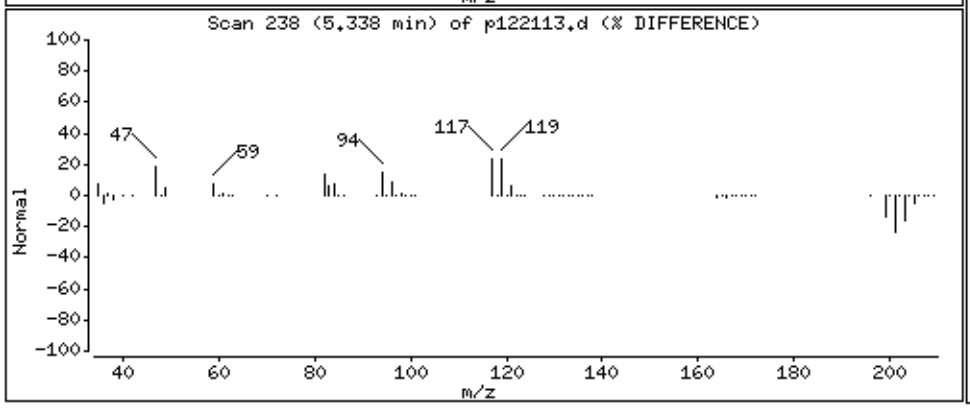
16 Hexachloroethane

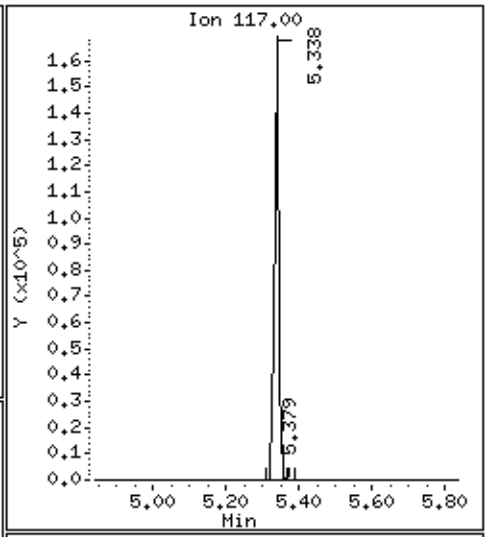
Concentration: 52.69 ug

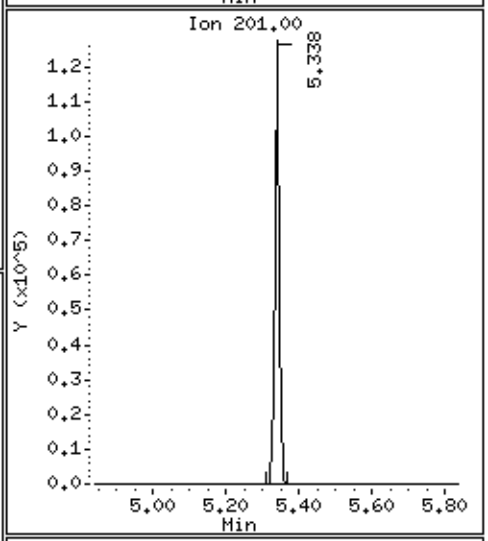


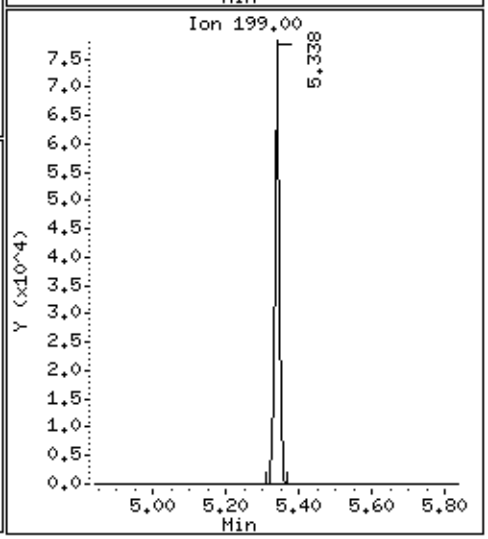












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

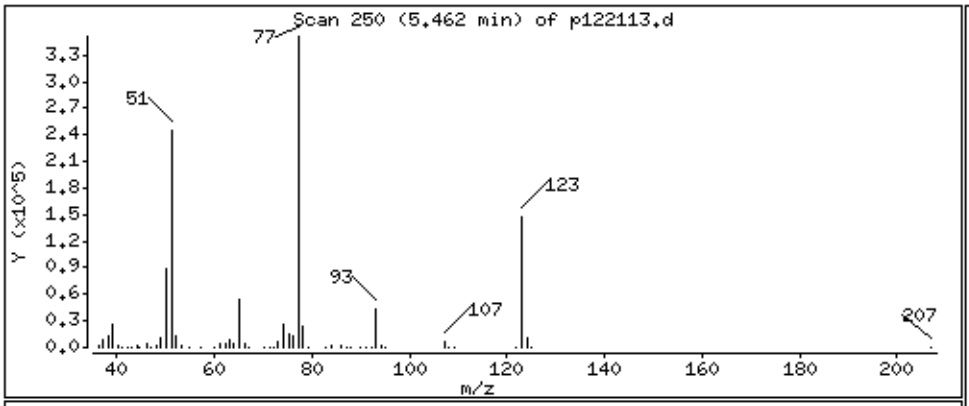
Operator: LP

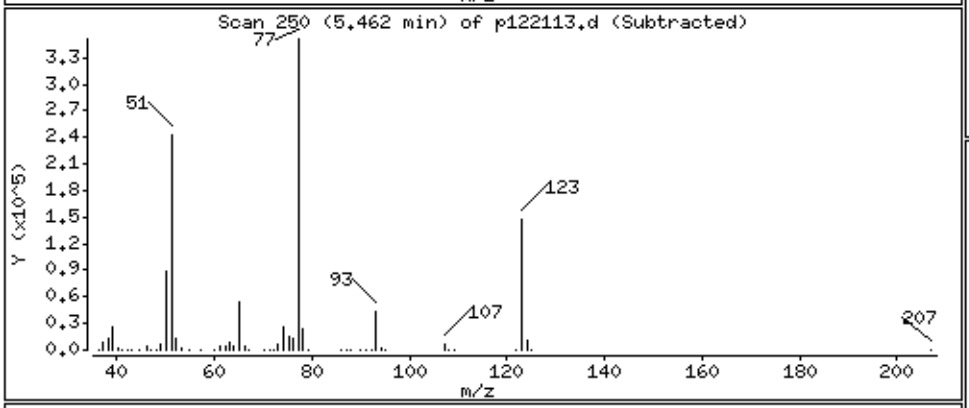
Column phase: DB-5.625

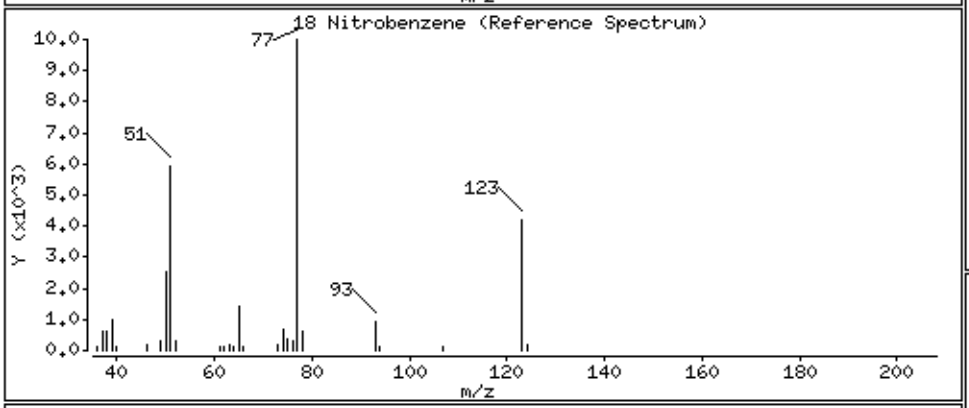
Column diameter: 0.25

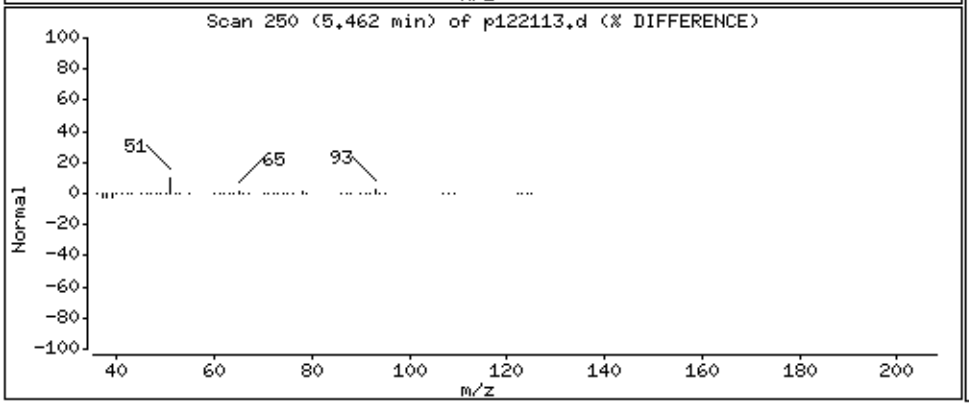
18 Nitrobenzene

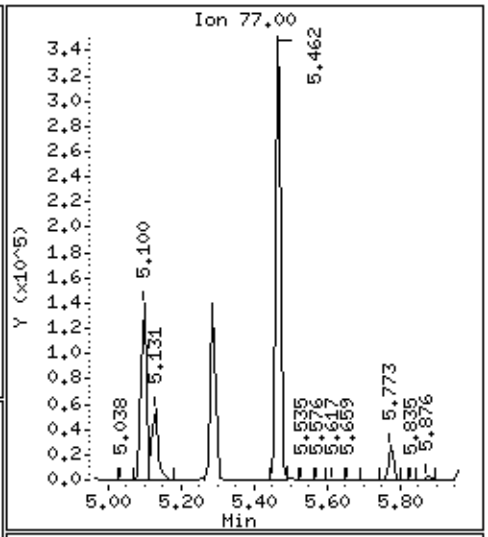
Concentration: 52.33 ug

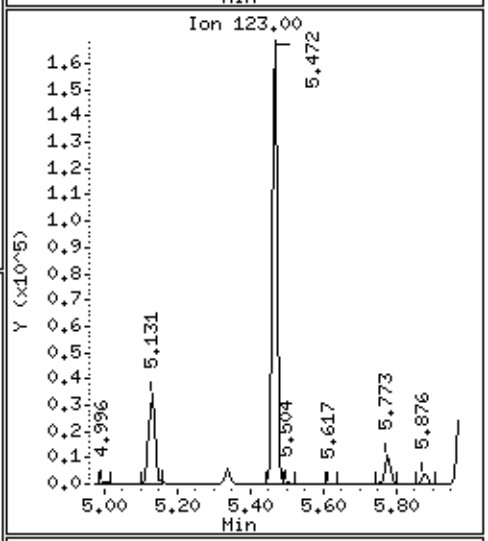


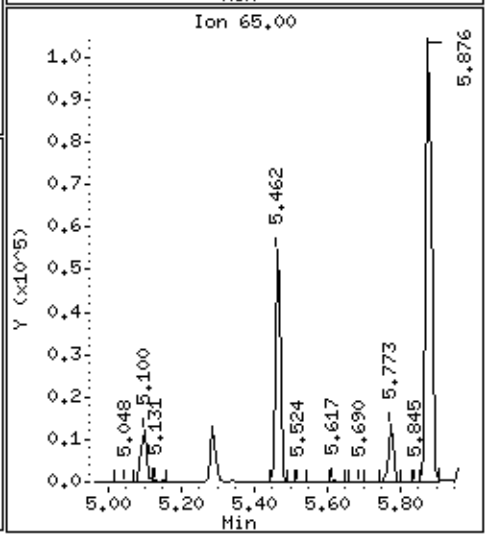












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

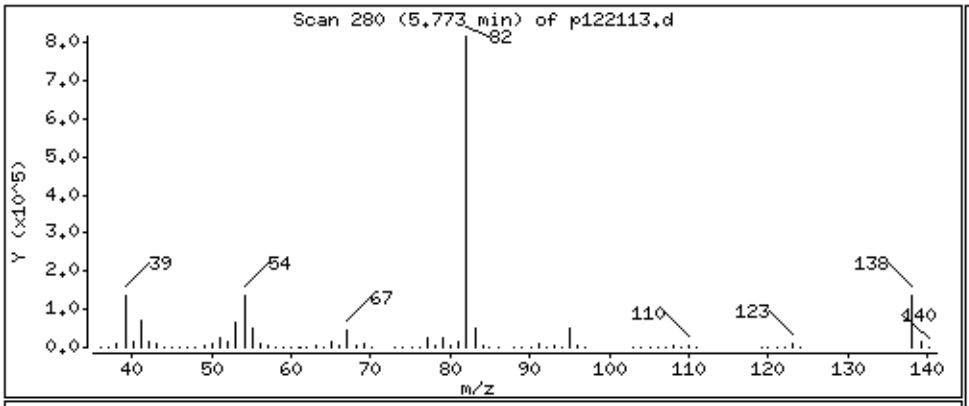
Operator: LP

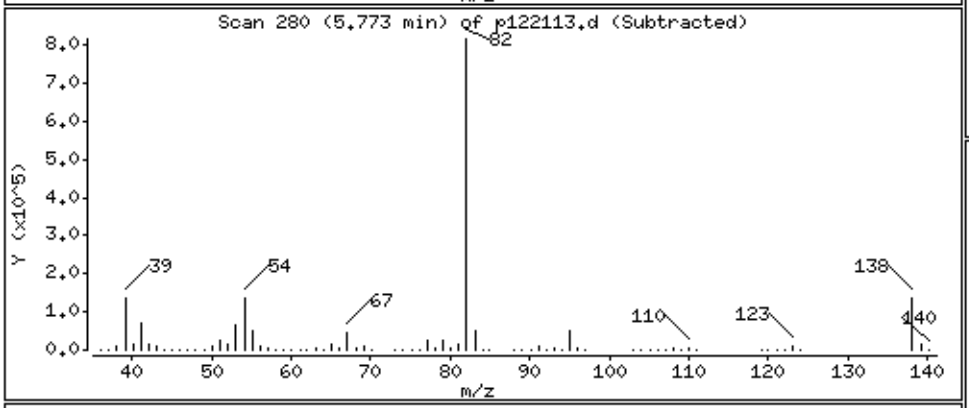
Column phase: DB-5.625

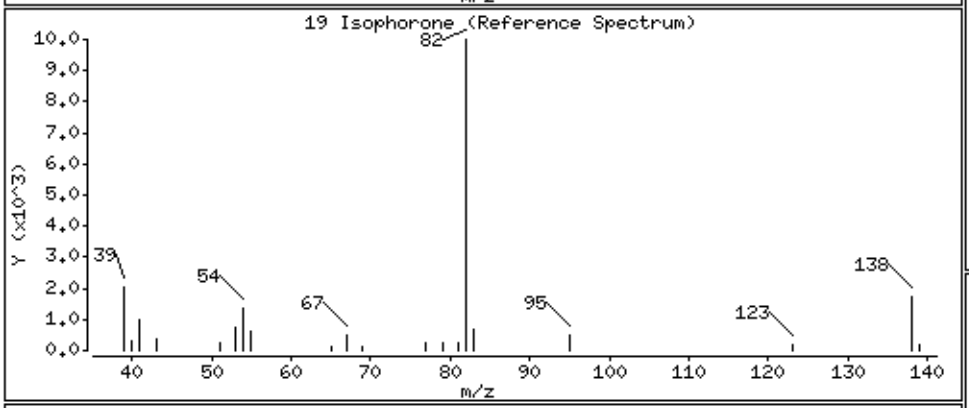
Column diameter: 0.25

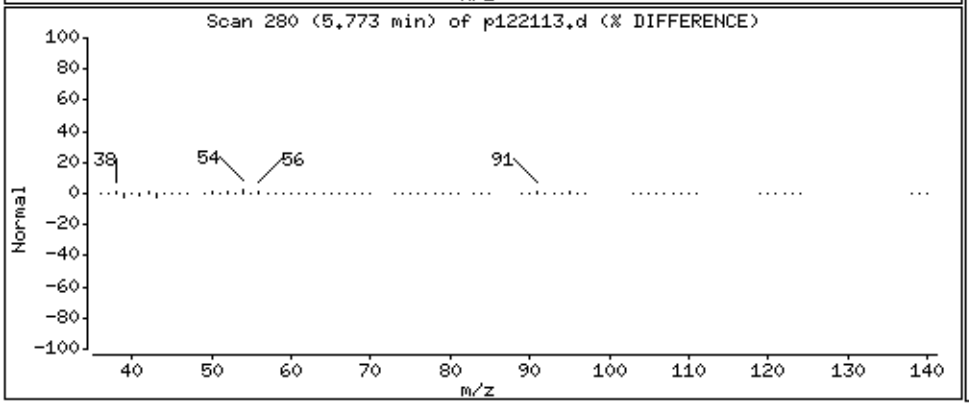
19 Isophorone

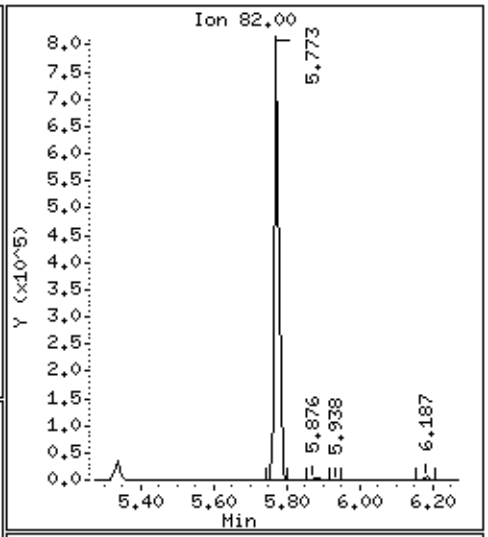
Concentration: 58.33 ug

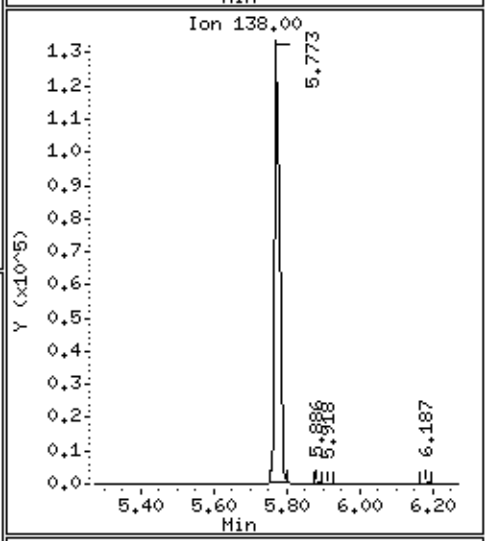


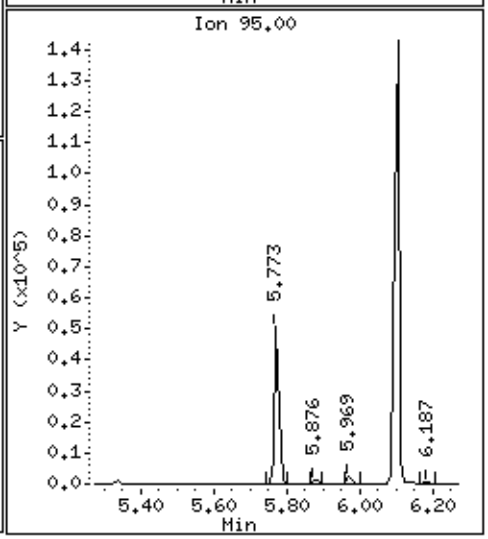












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

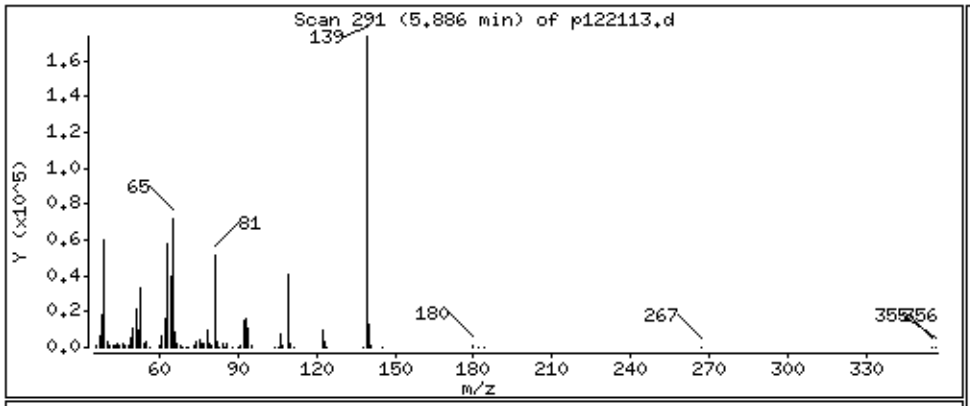
Operator: LP

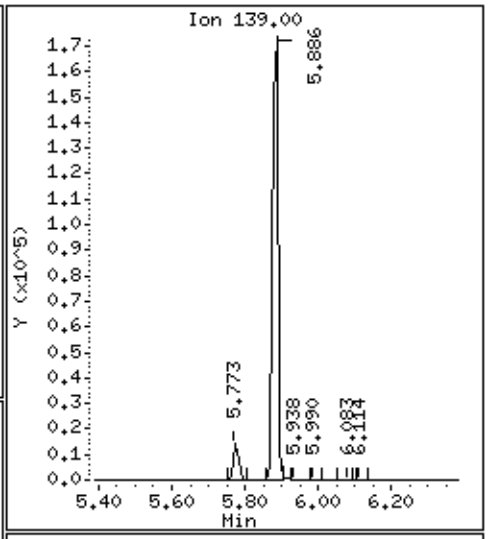
Column phase: DB-5.625

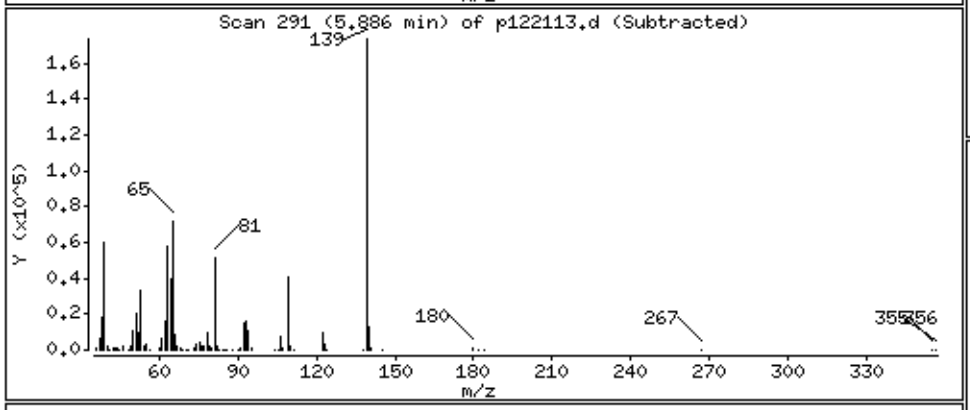
Column diameter: 0.25

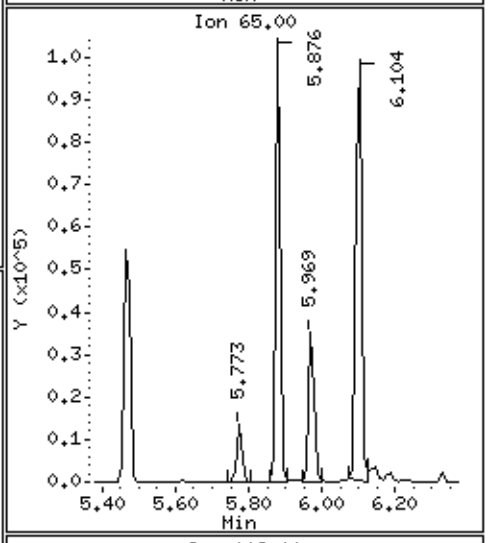
20 2-Nitrophenol*

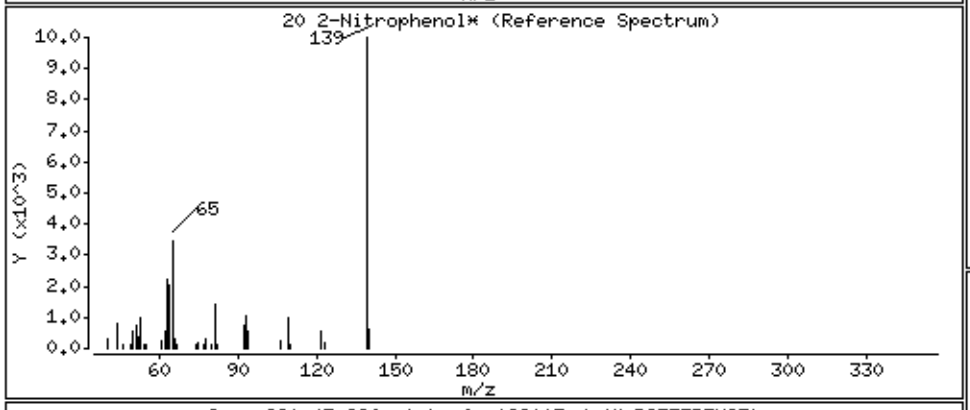
Concentration: 55.14 ug

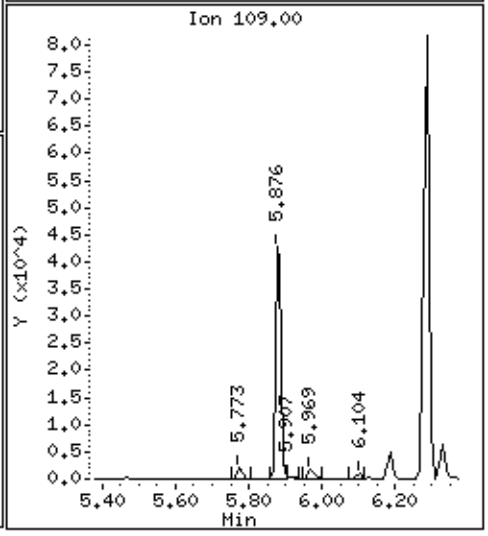


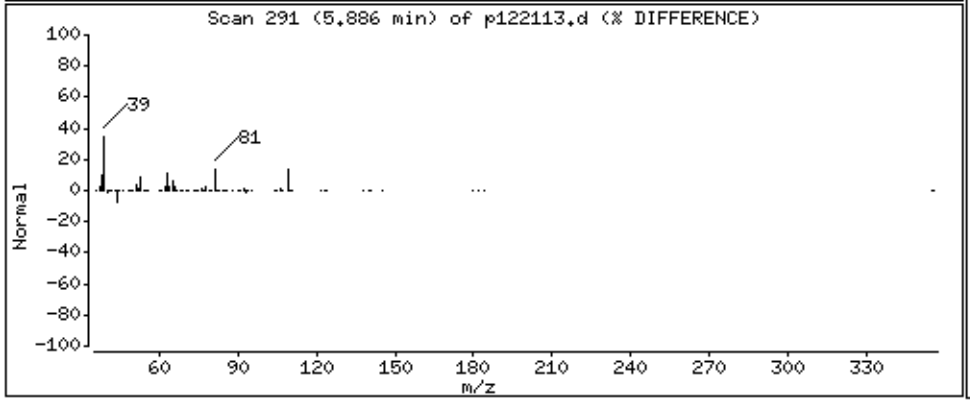












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

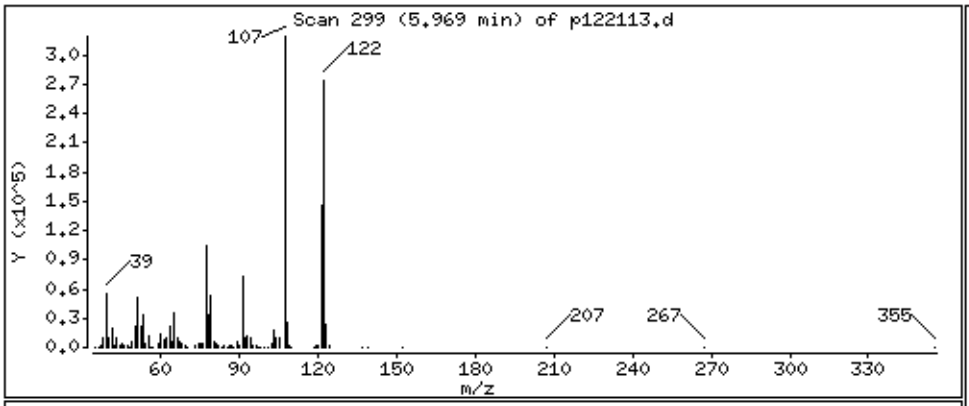
Operator: LP

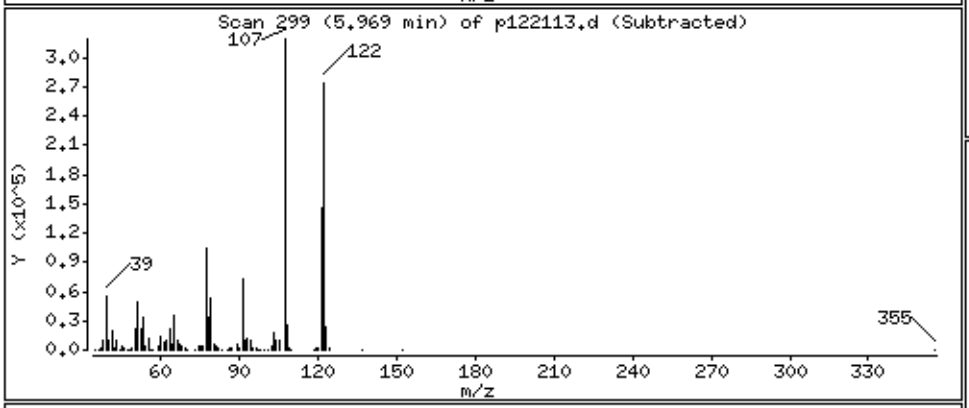
Column phase: DB-5.625

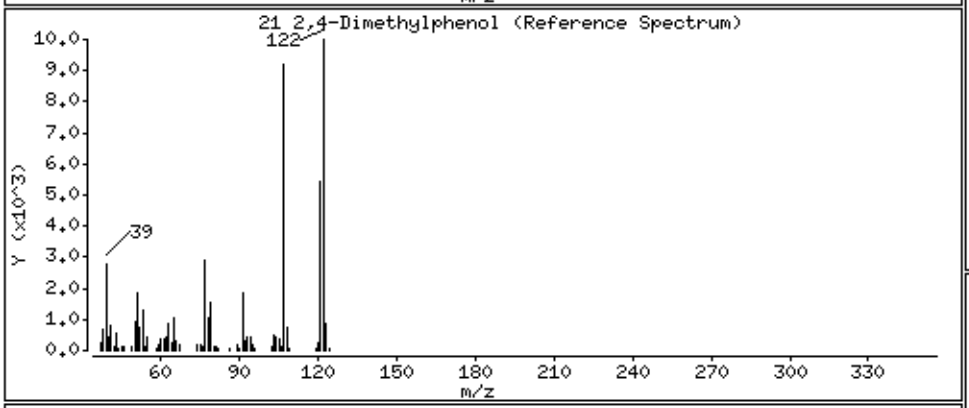
Column diameter: 0.25

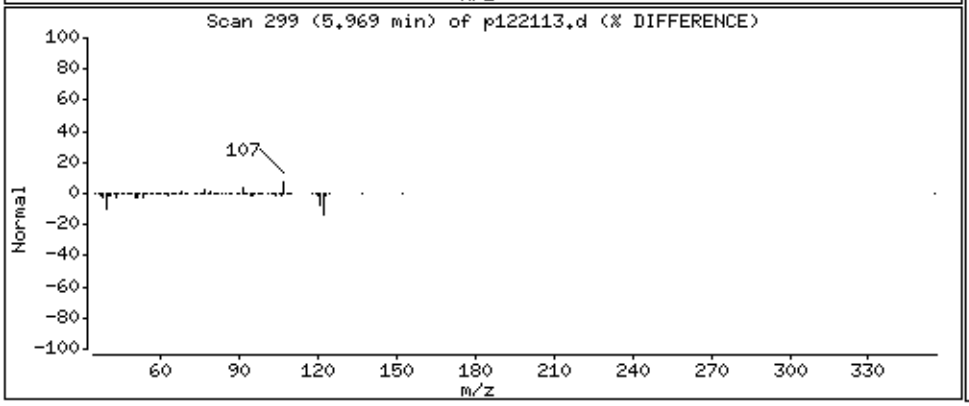
21 2,4-Dimethylphenol

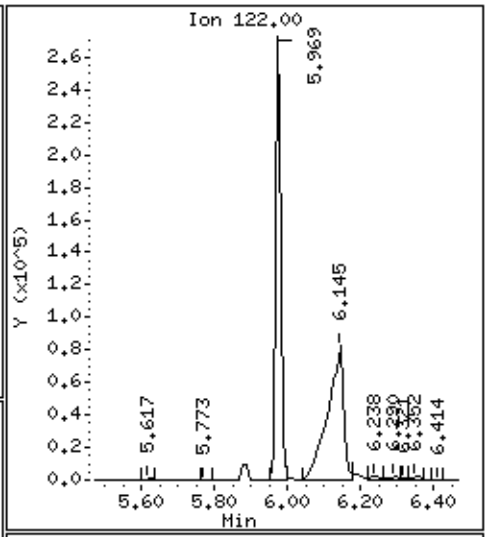
Concentration: 50.74 ug

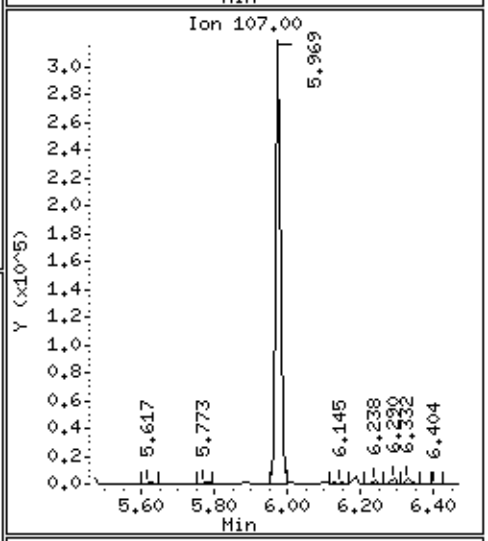


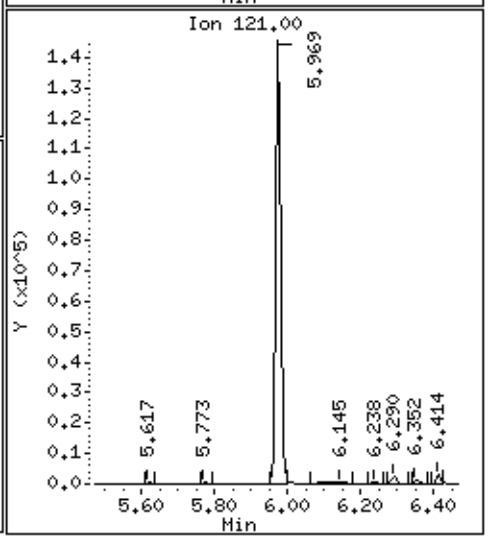












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

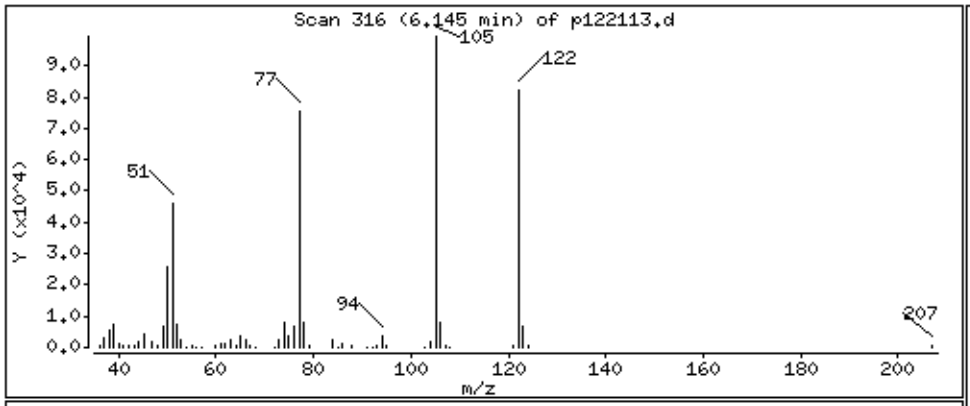
Operator: LP

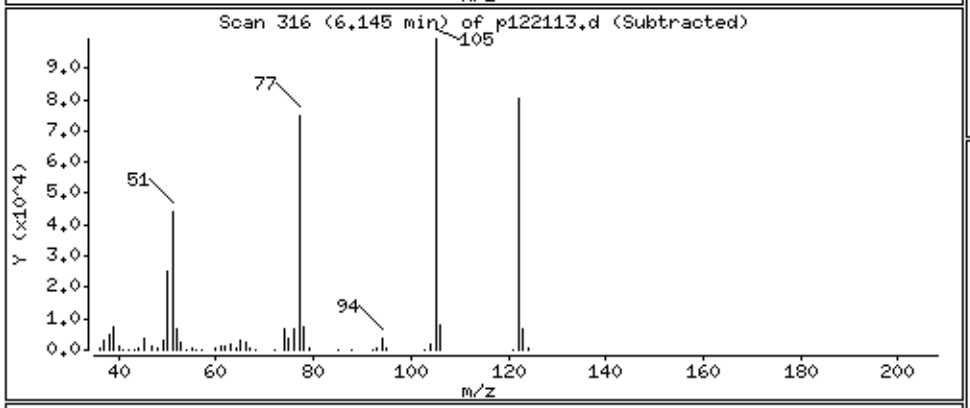
Column phase: DB-5.625

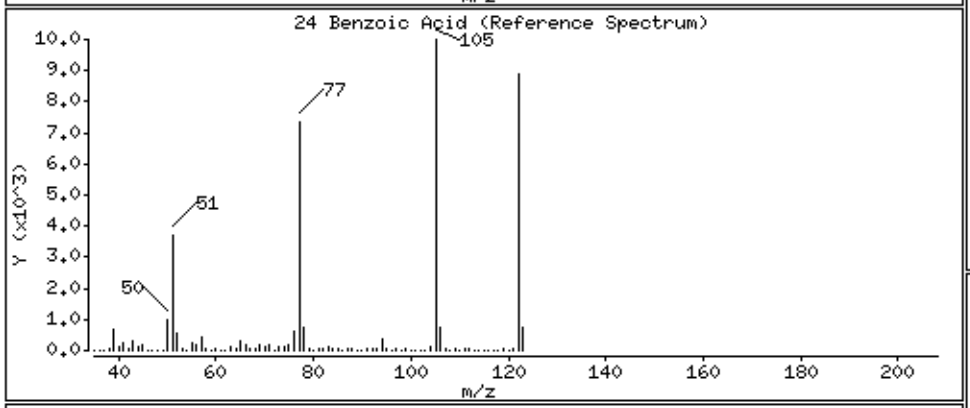
Column diameter: 0.25

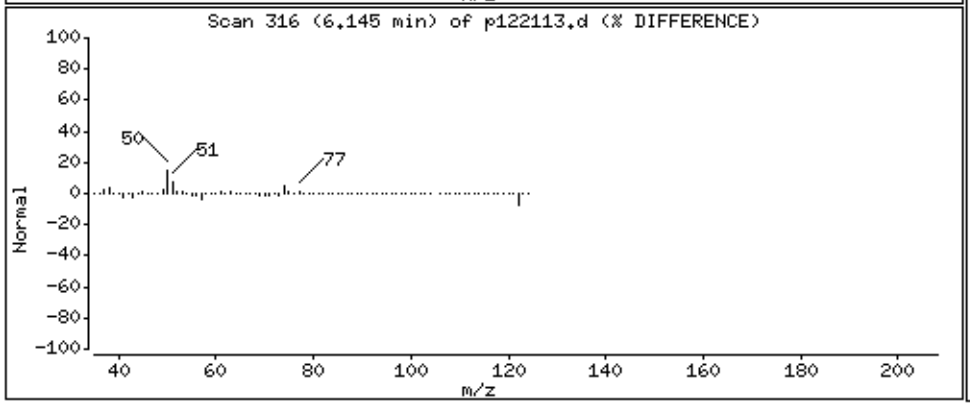
24 Benzoic Acid

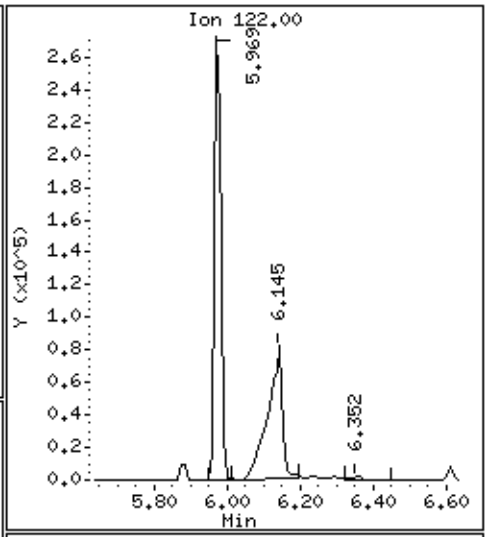
Concentration: 56.47 ug

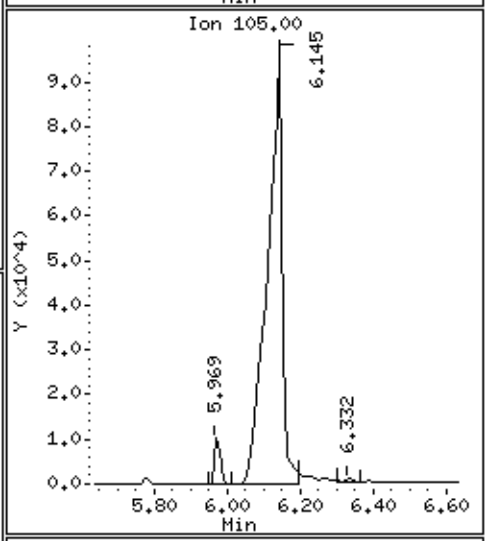


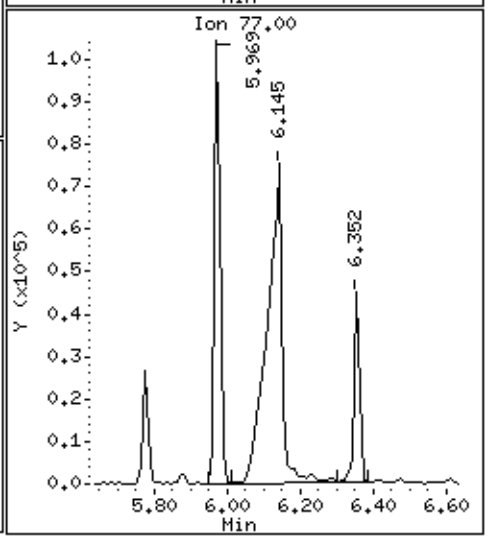












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

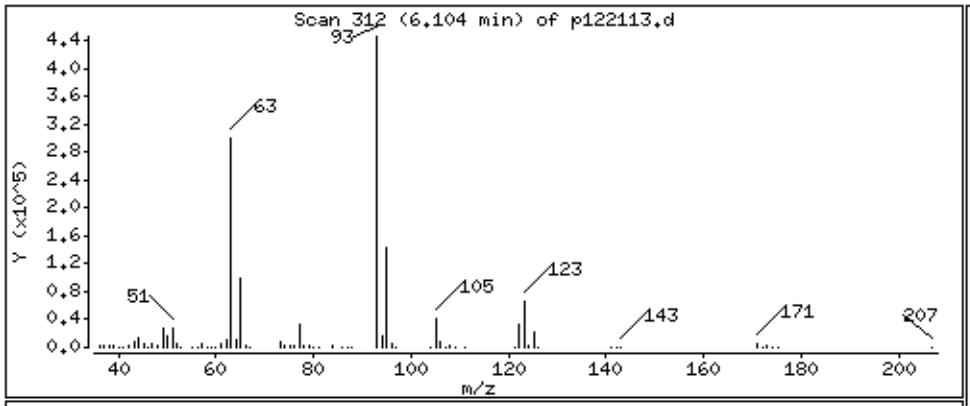
Operator: LP

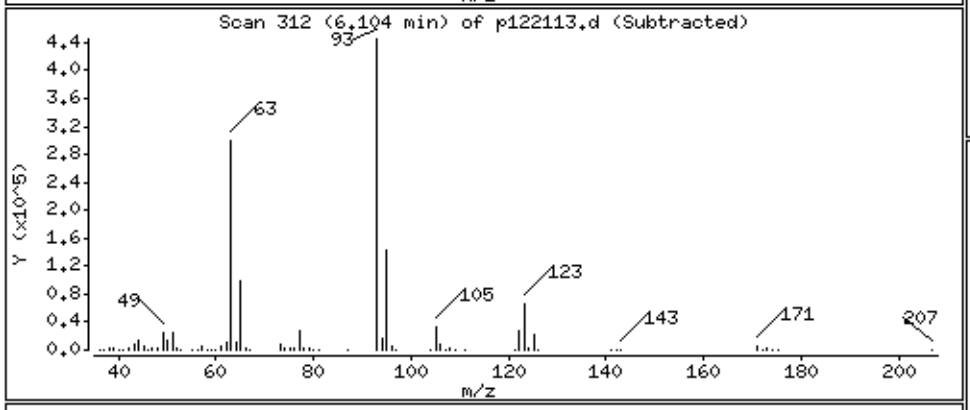
Column phase: DB-5.625

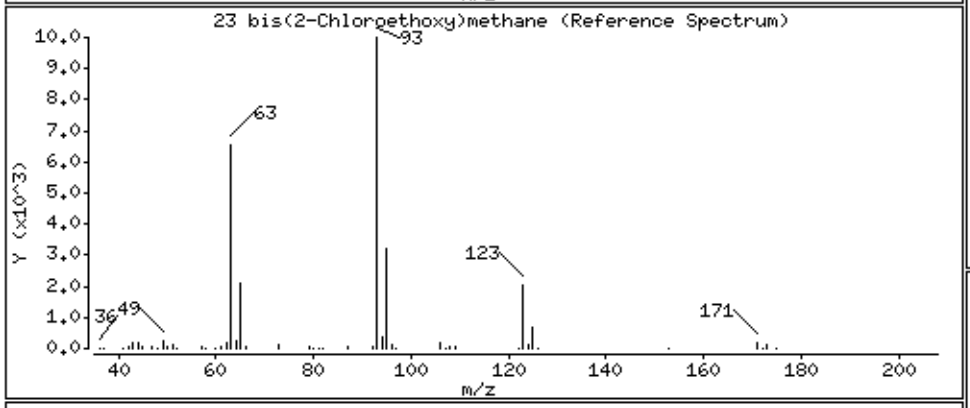
Column diameter: 0.25

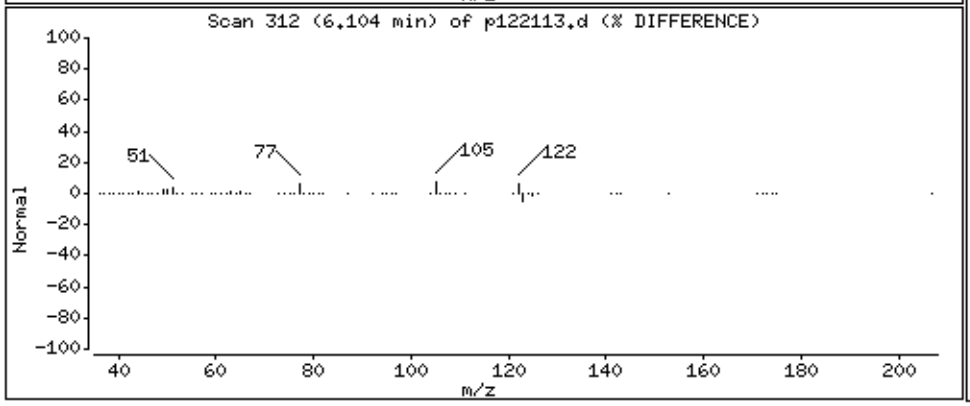
23 bis(2-Chloroethoxy)methane

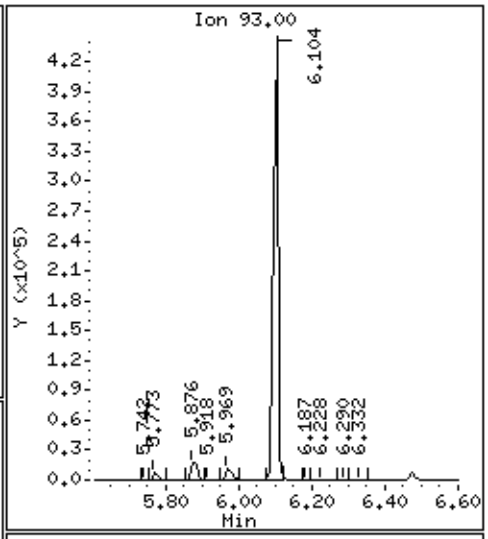
Concentration: 50.13 ug

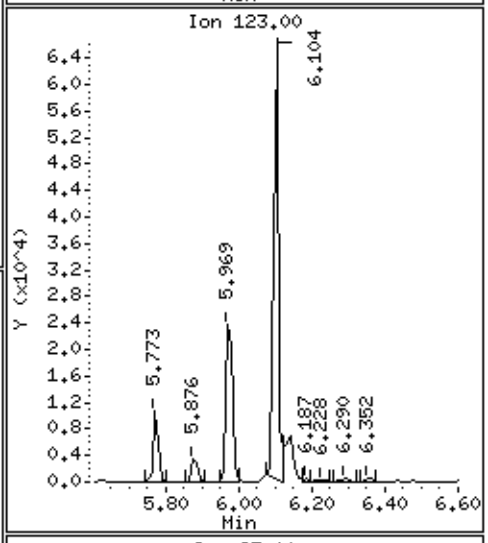


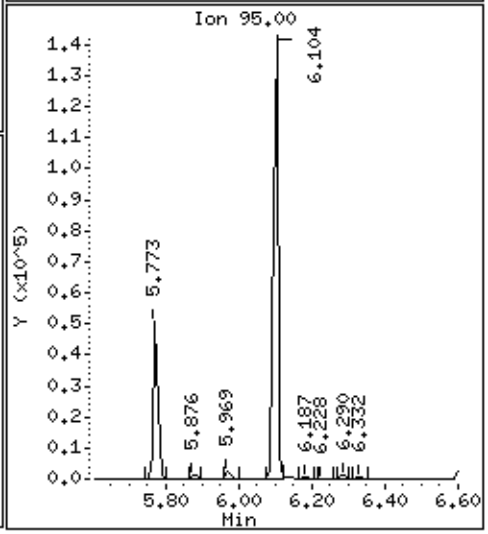












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

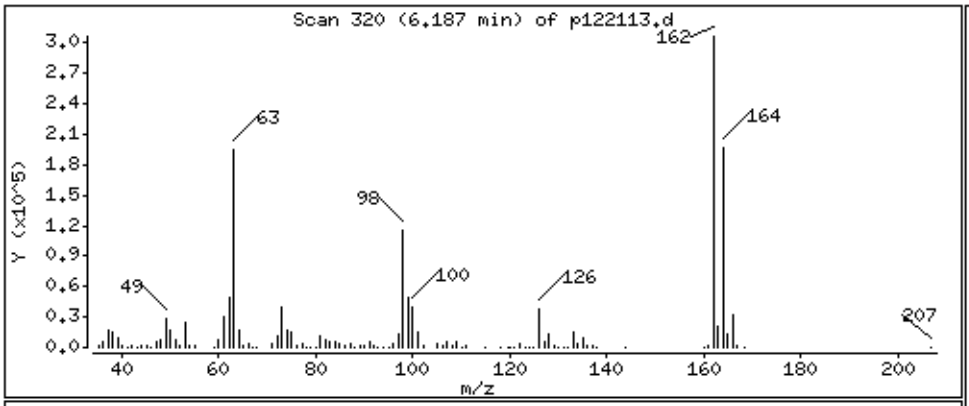
Operator: LP

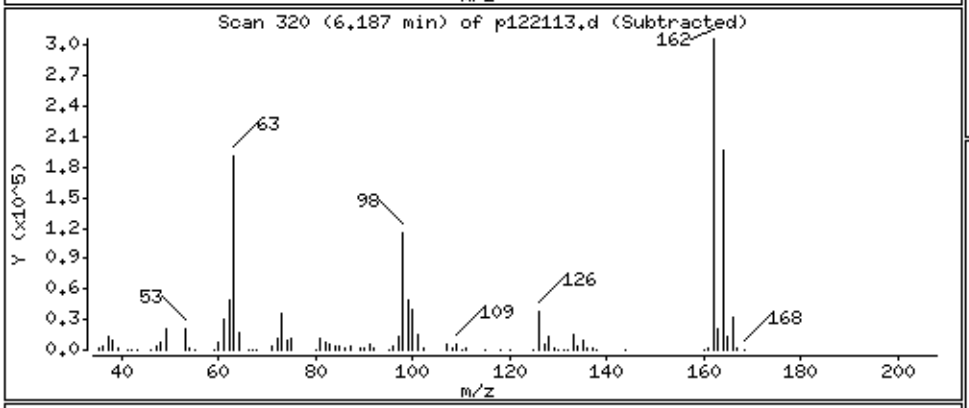
Column phase: DB-5.625

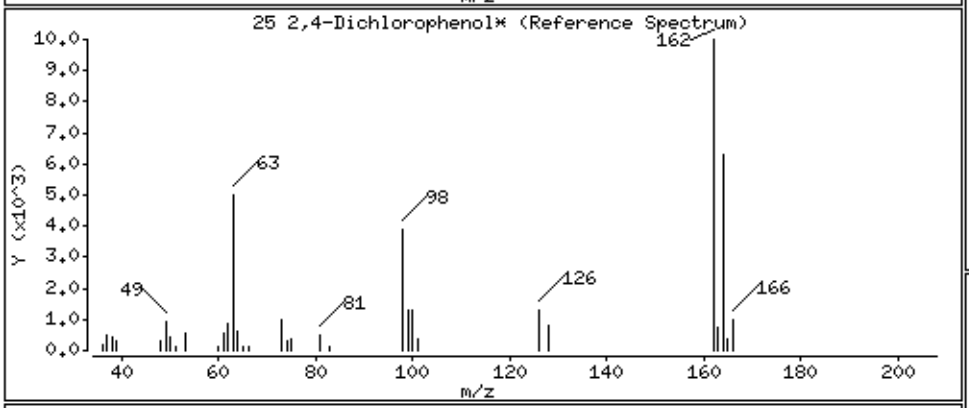
Column diameter: 0.25

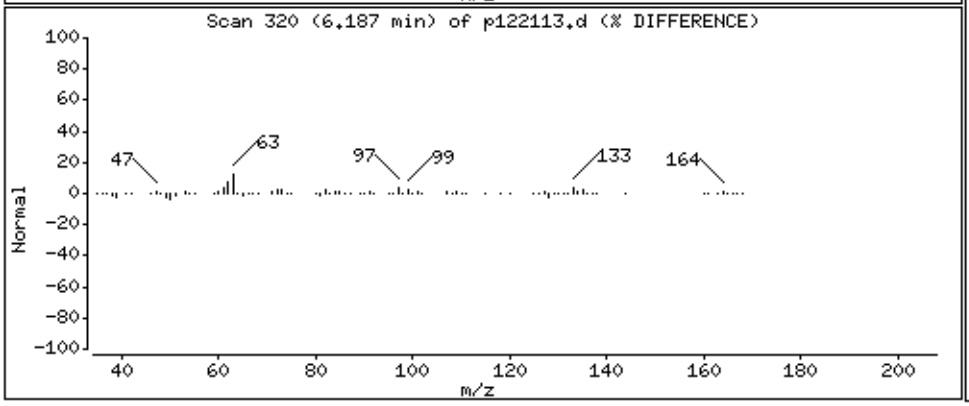
25 2,4-Dichlorophenol*

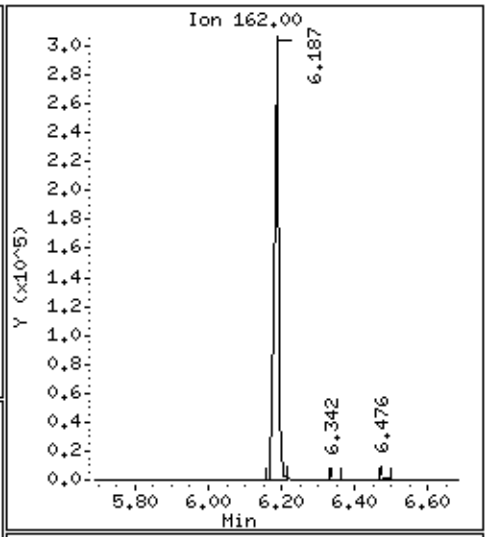
Concentration: 54.45 ug

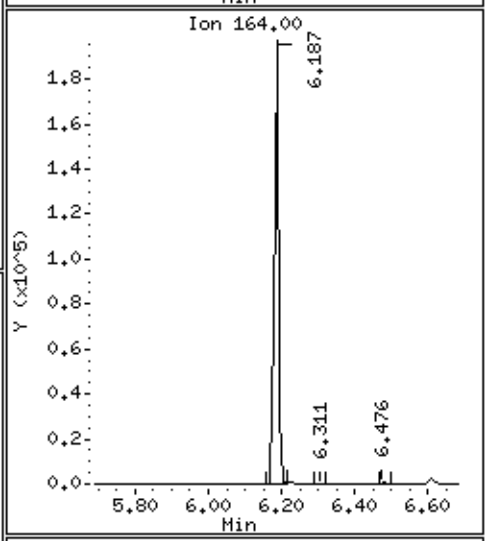


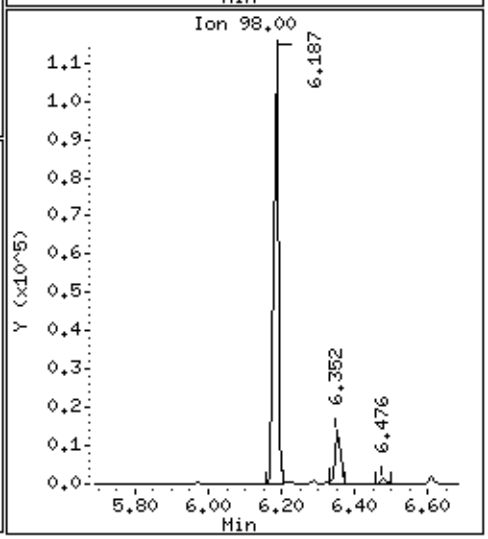












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

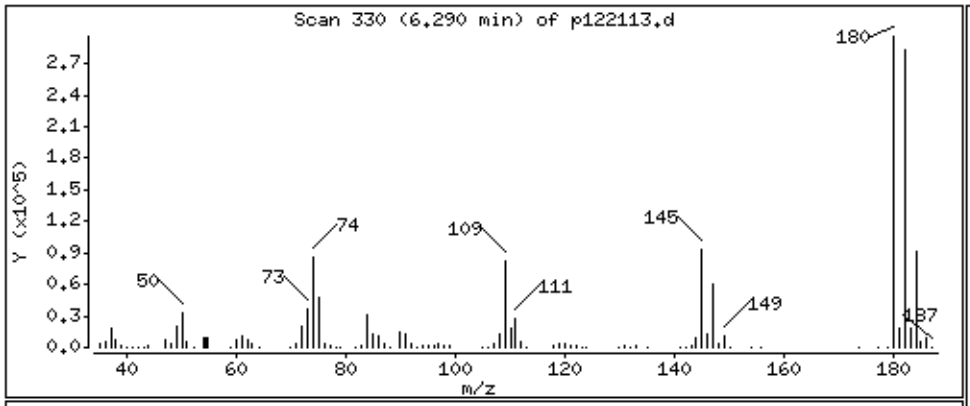
Operator: LP

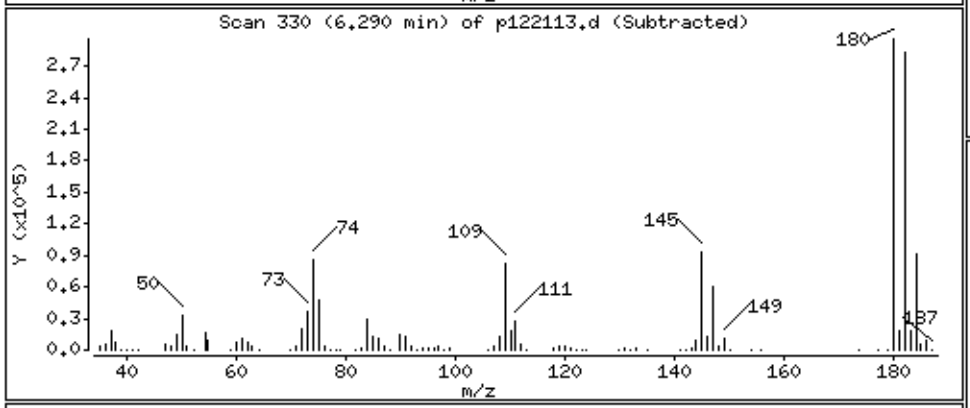
Column phase: DB-5.625

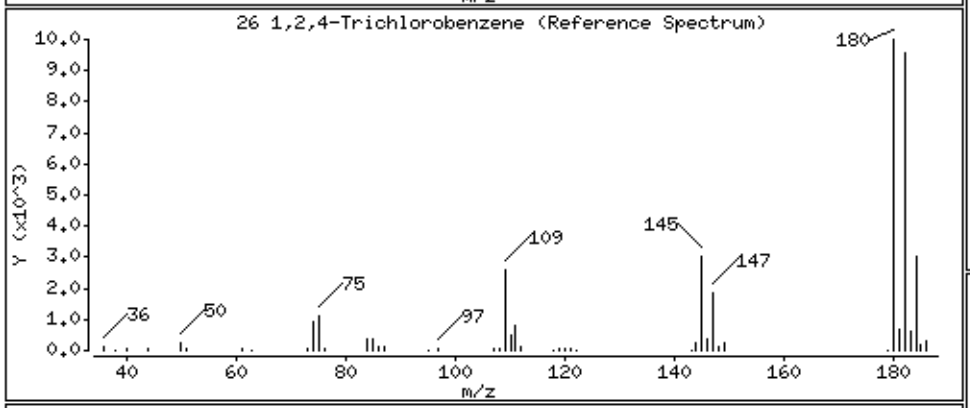
Column diameter: 0.25

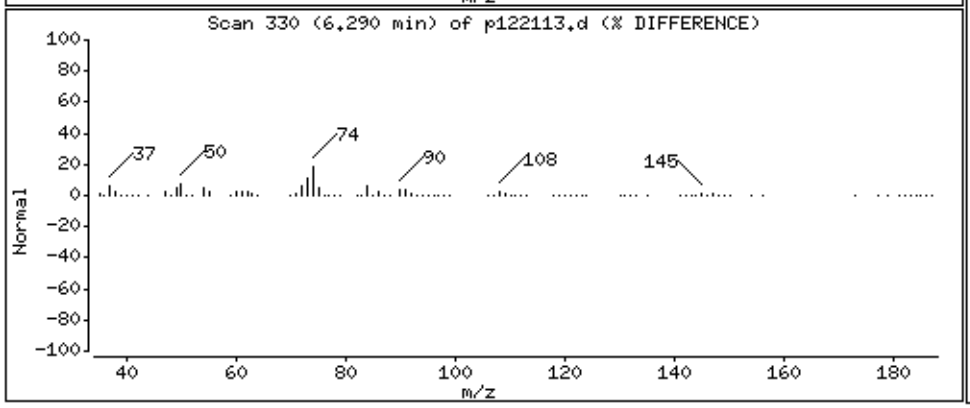
26 1,2,4-Trichlorobenzene

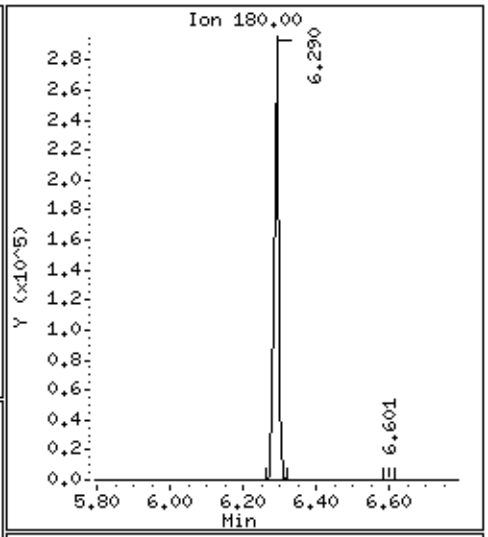
Concentration: 52.16 ug

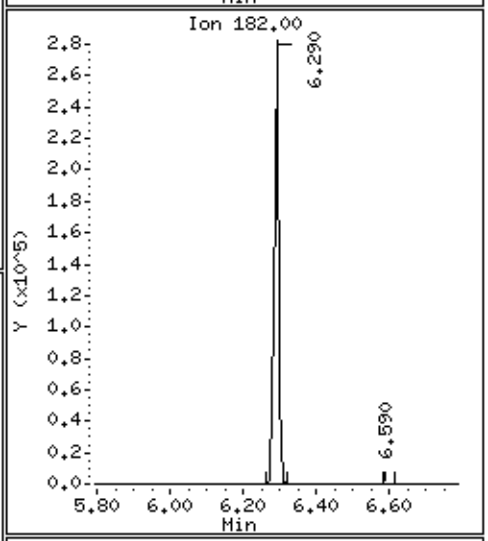


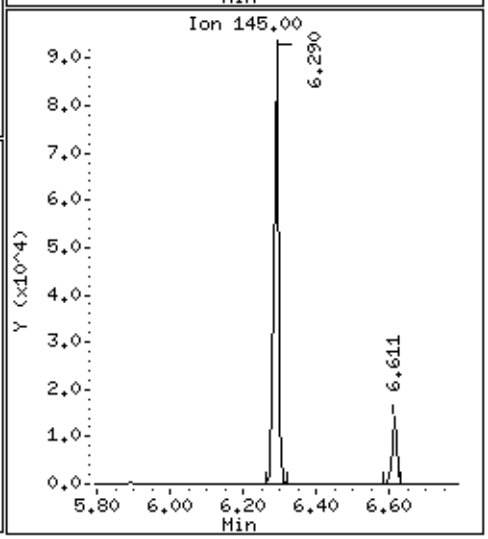












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

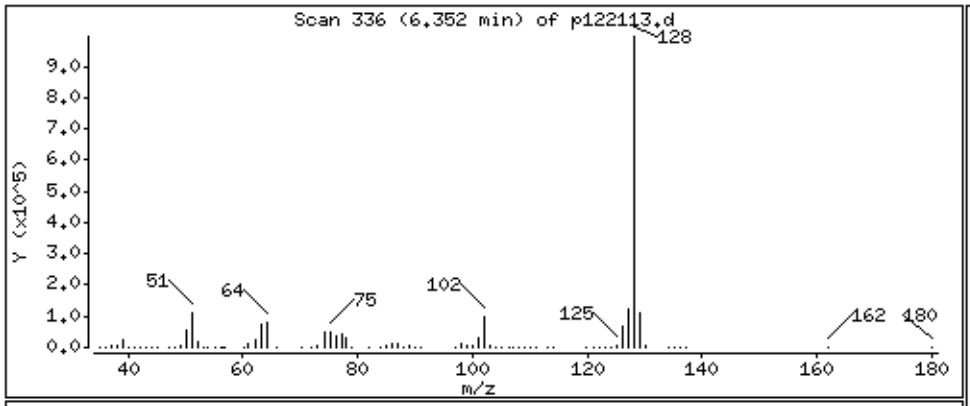
Operator: LP

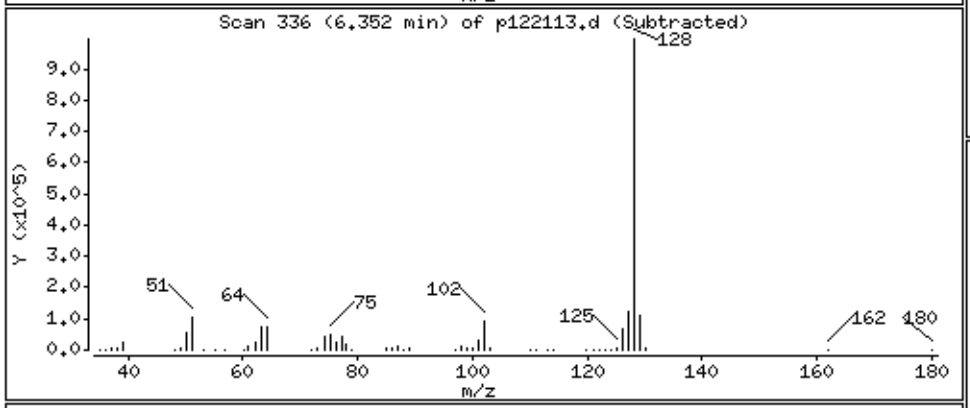
Column phase: DB-5.625

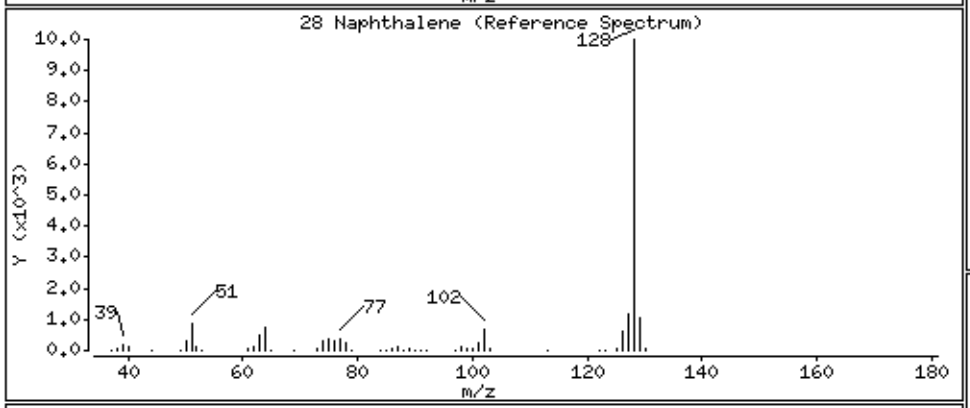
Column diameter: 0.25

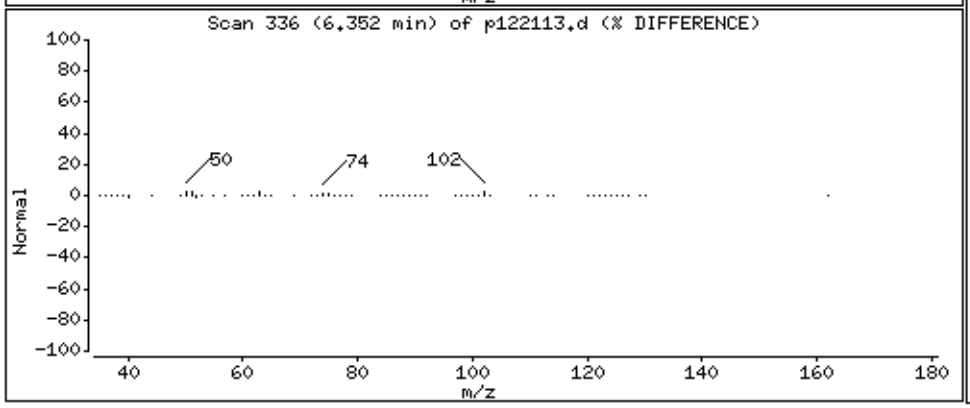
28 Naphthalene

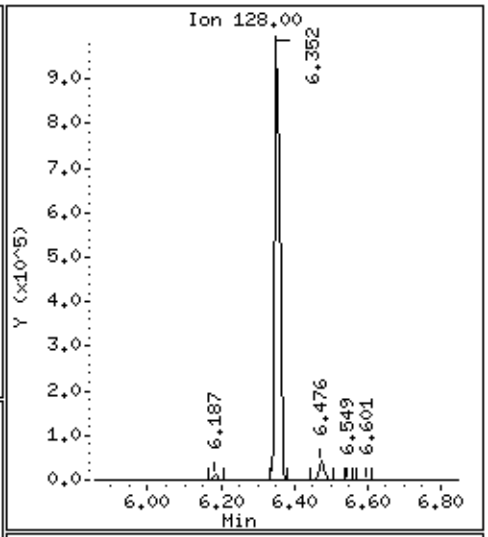
Concentration: 52.02 ug

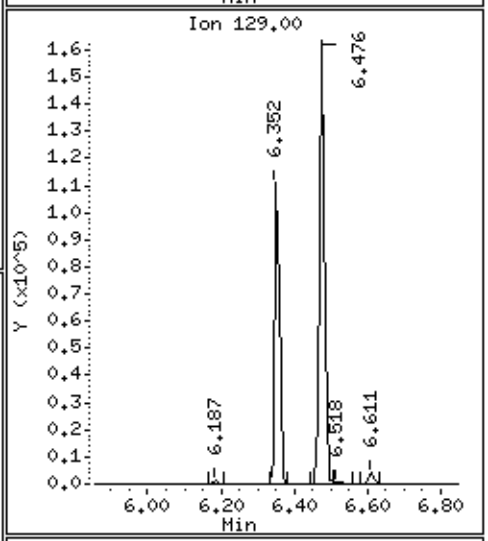


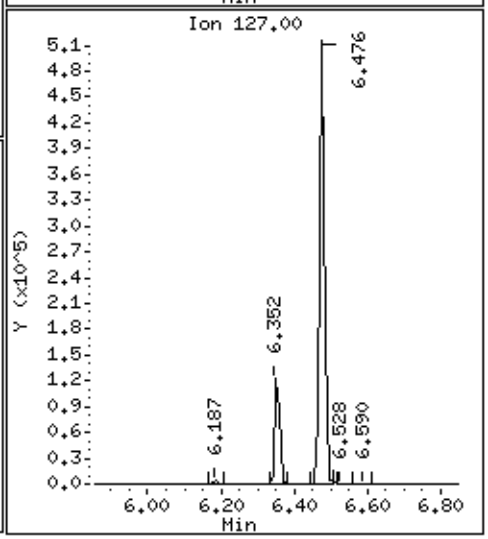












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

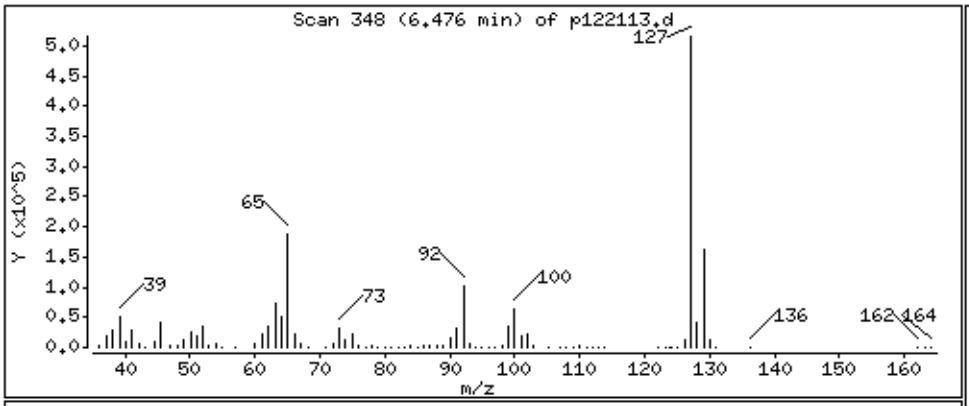
Operator: LP

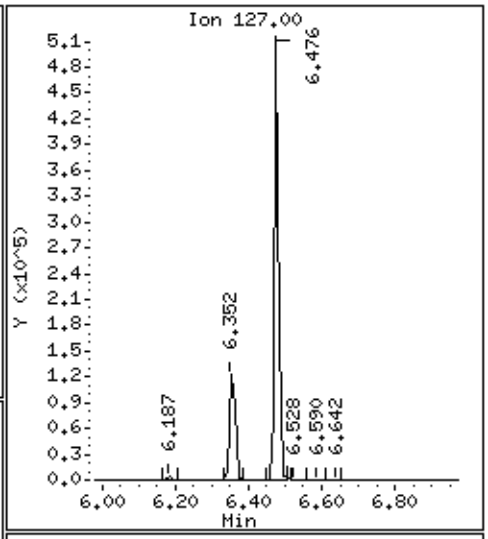
Column phase: DB-5.625

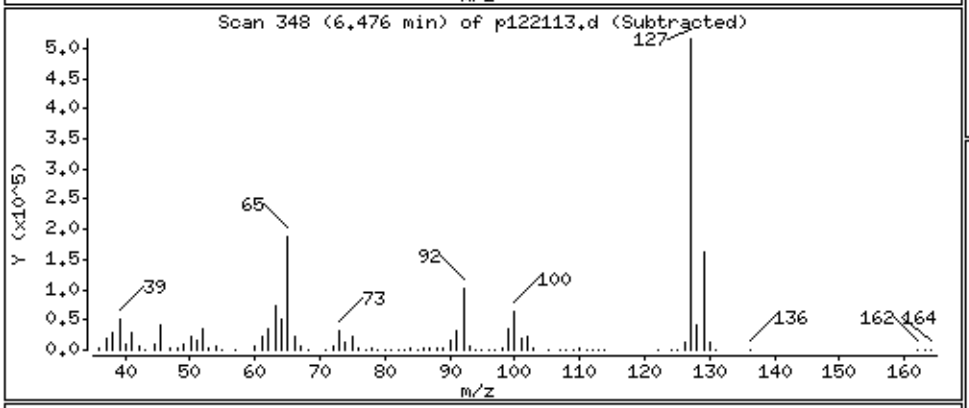
Column diameter: 0.25

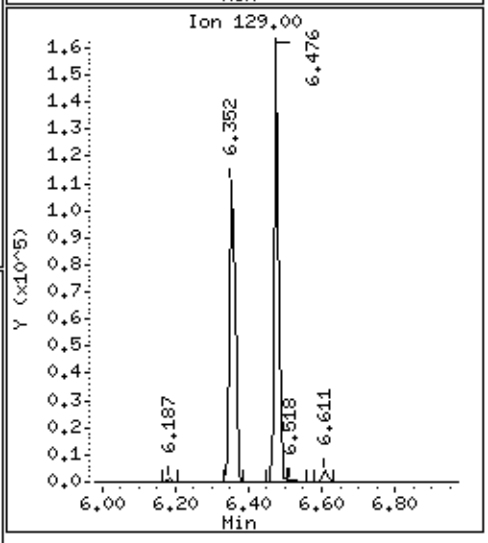
29 4-Chloroaniline

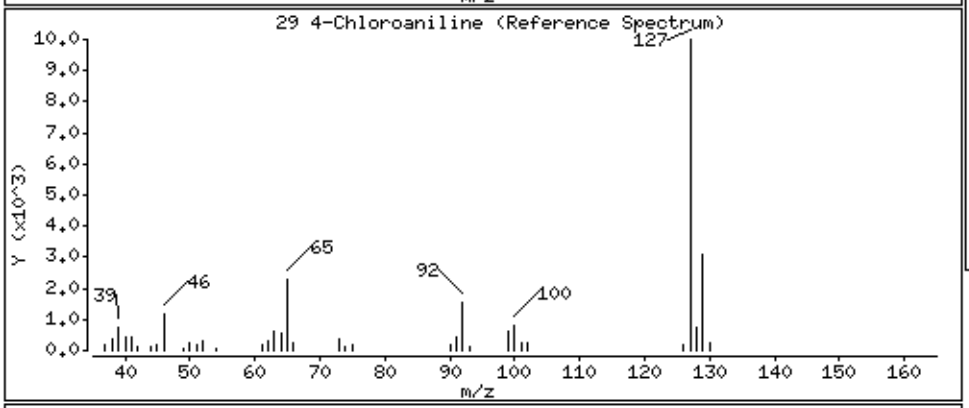
Concentration: 53.44 ug

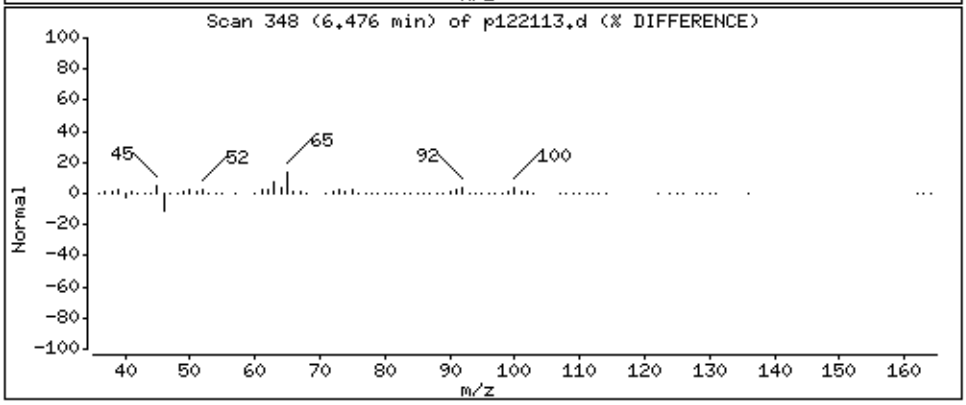












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

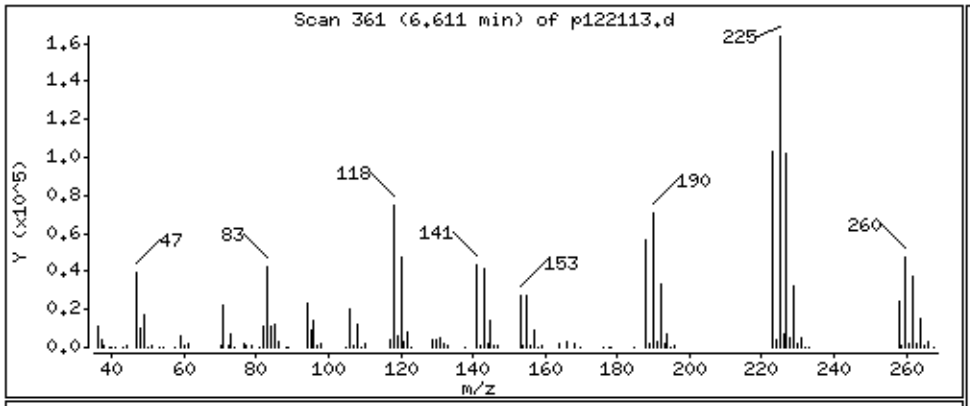
Operator: LP

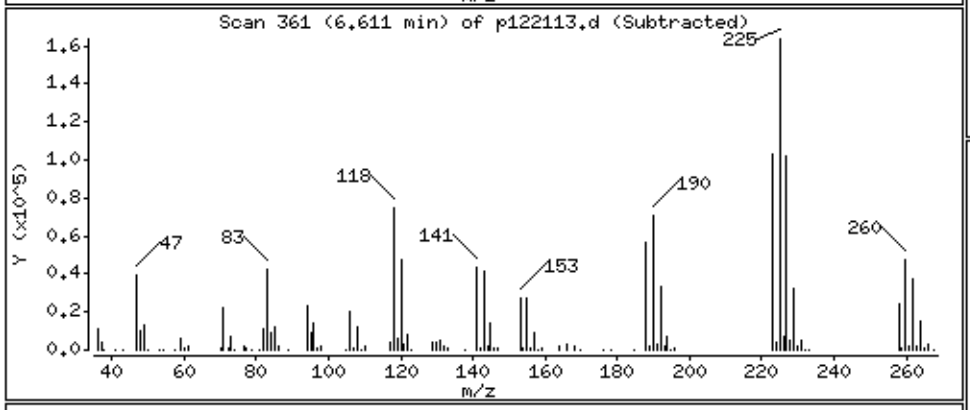
Column phase: DB-5.625

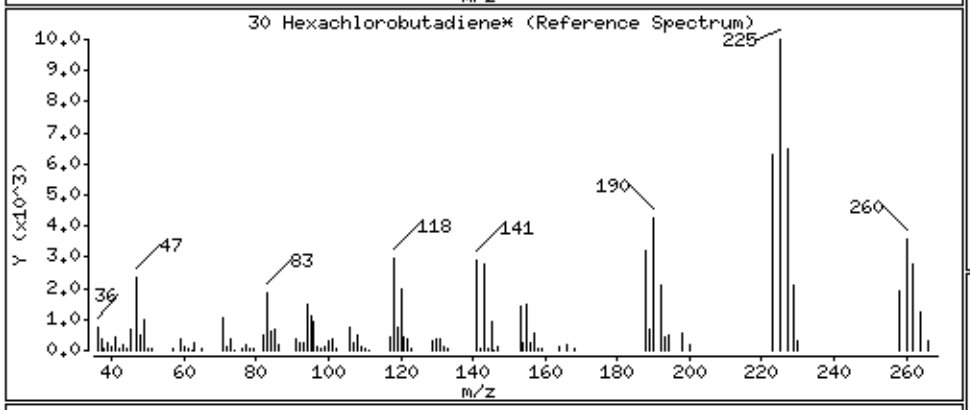
Column diameter: 0.25

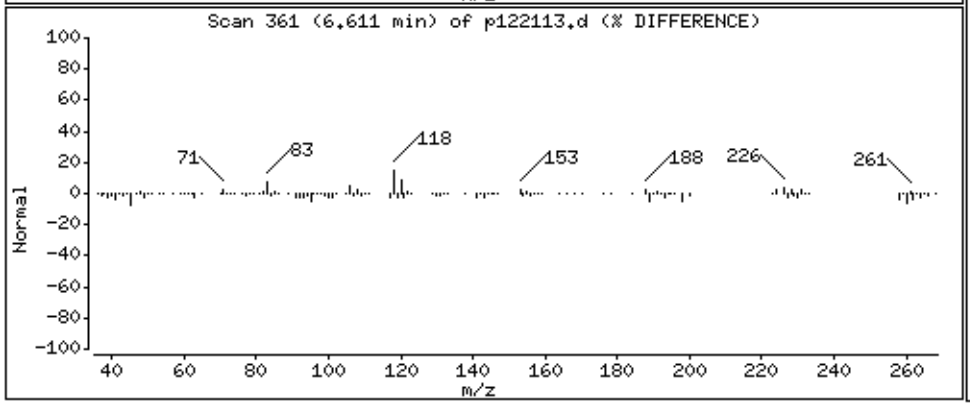
30 Hexachlorobutadiene*

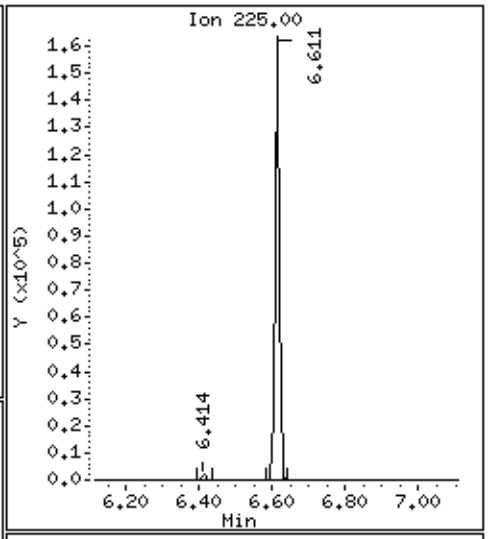
Concentration: 52.14 ug

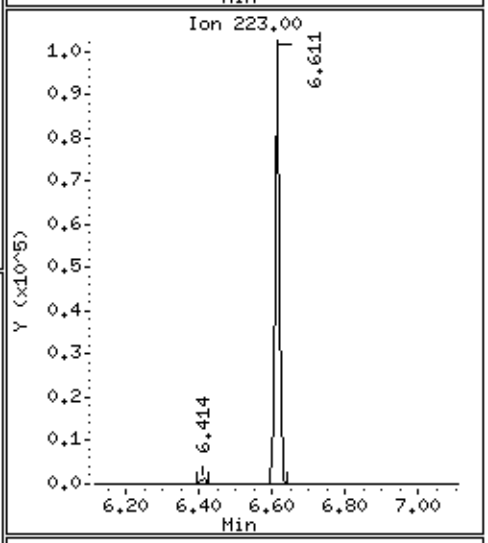


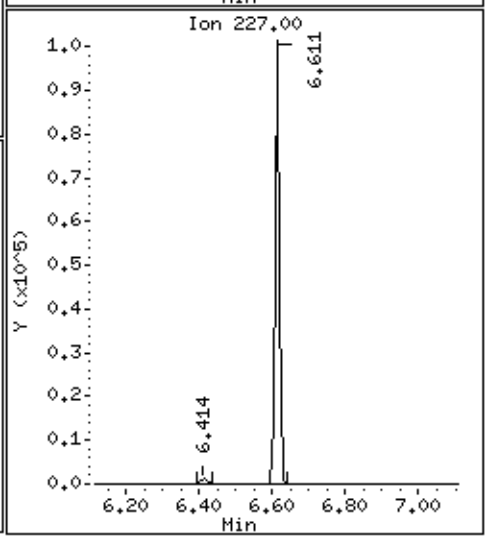












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

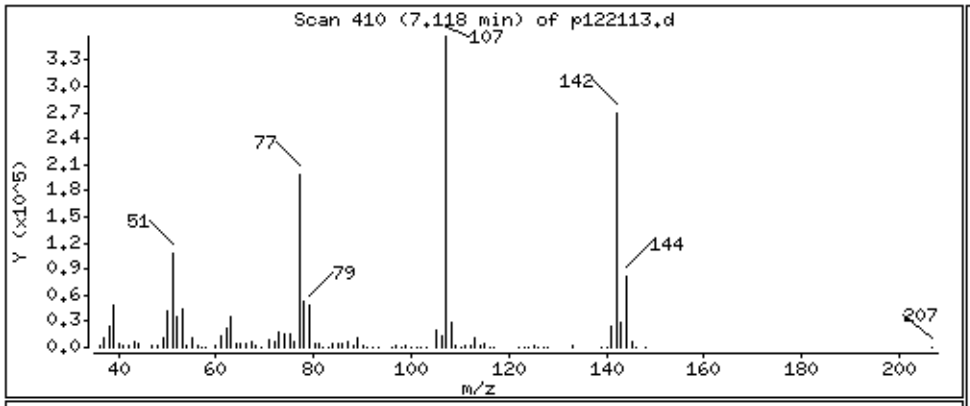
Operator: LP

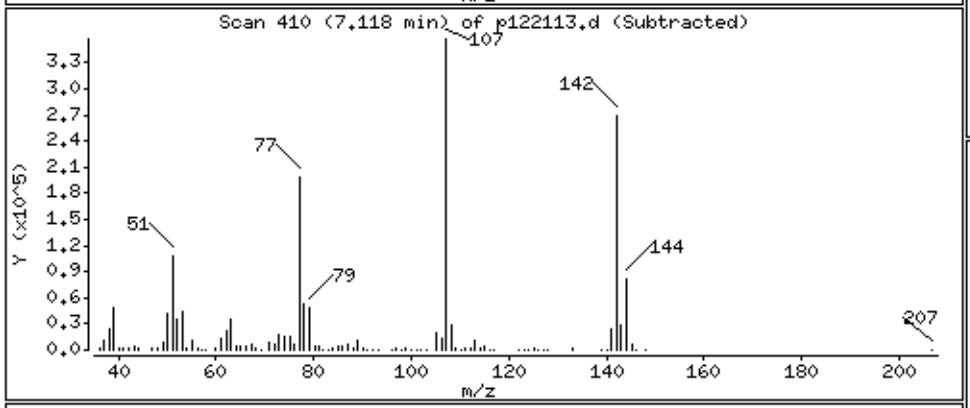
Column phase: DB-5.625

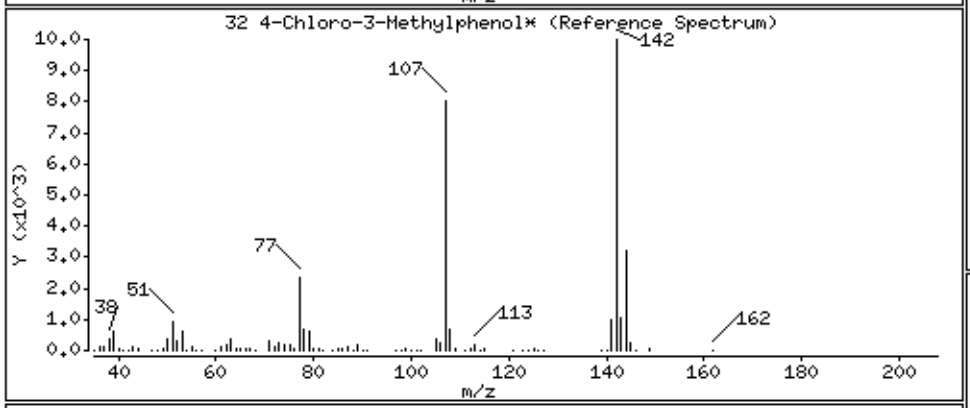
Column diameter: 0.25

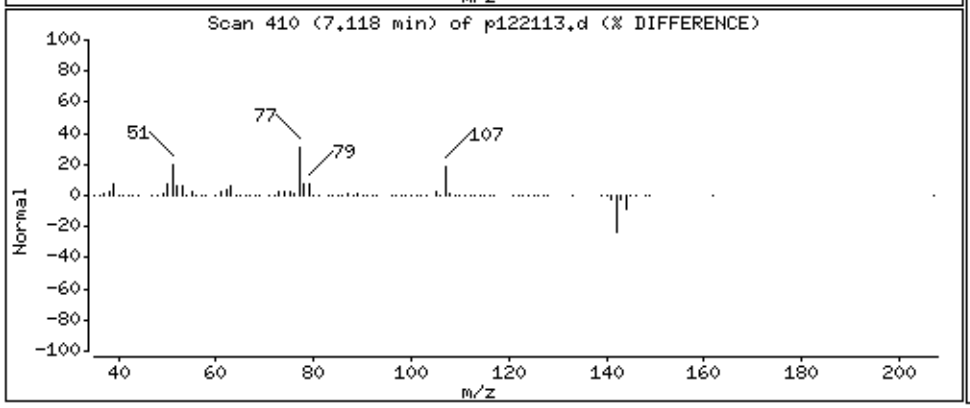
32 4-Chloro-3-Methylphenol*

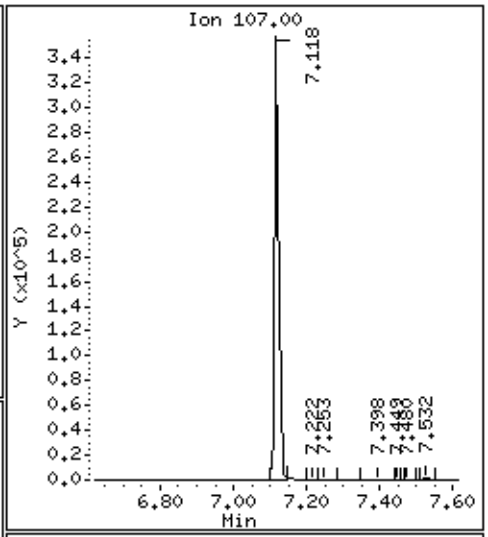
Concentration: 51.99 ug

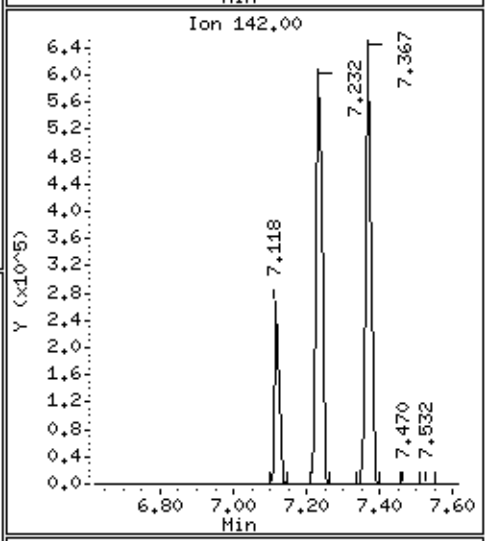


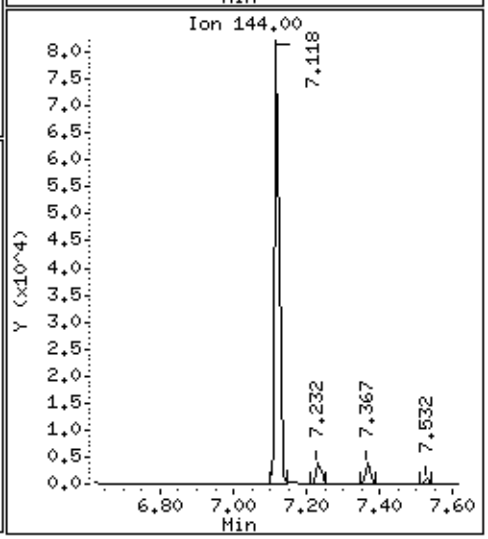












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

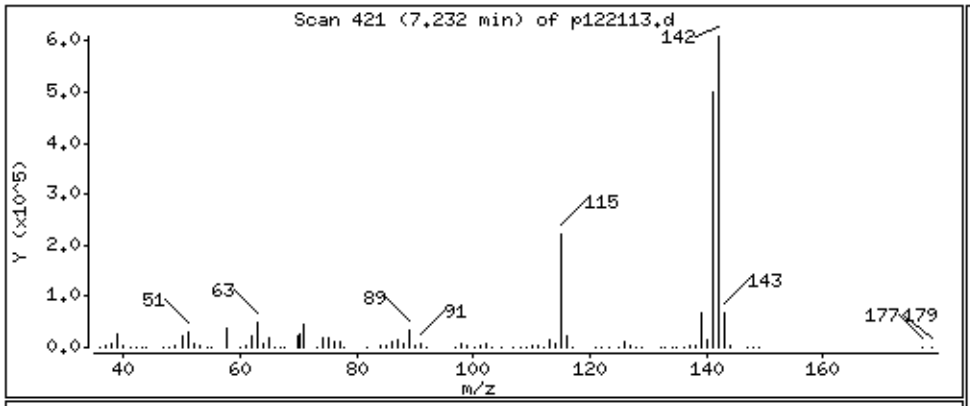
Operator: LP

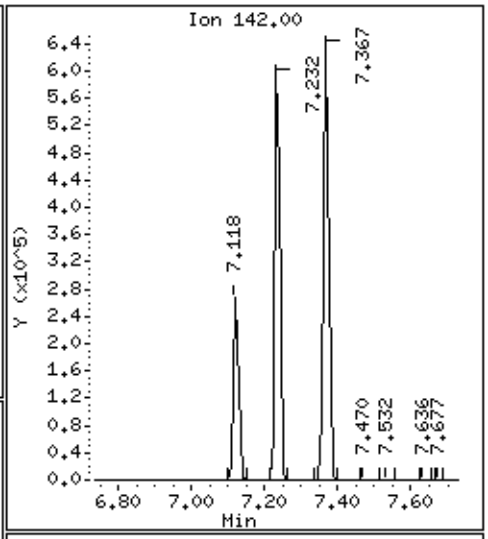
Column phase: DB-5.625

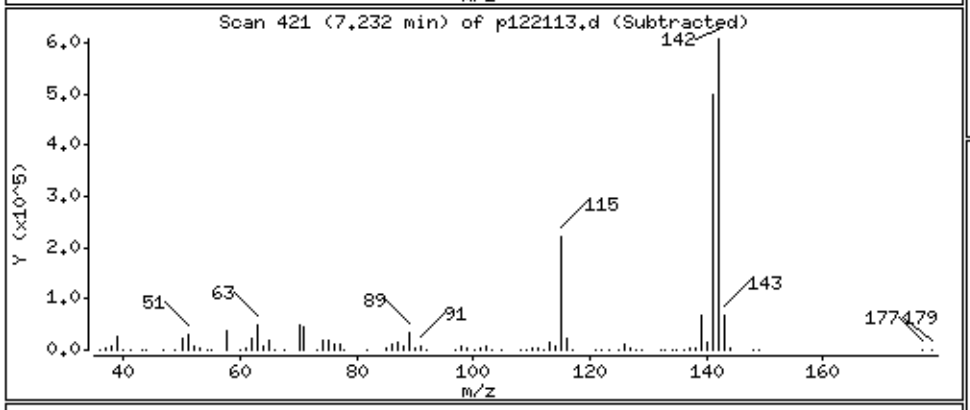
Column diameter: 0.25

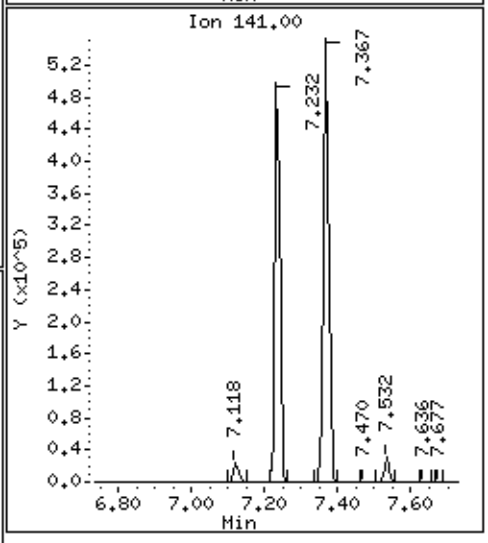
33 2-Methylnaphthalene

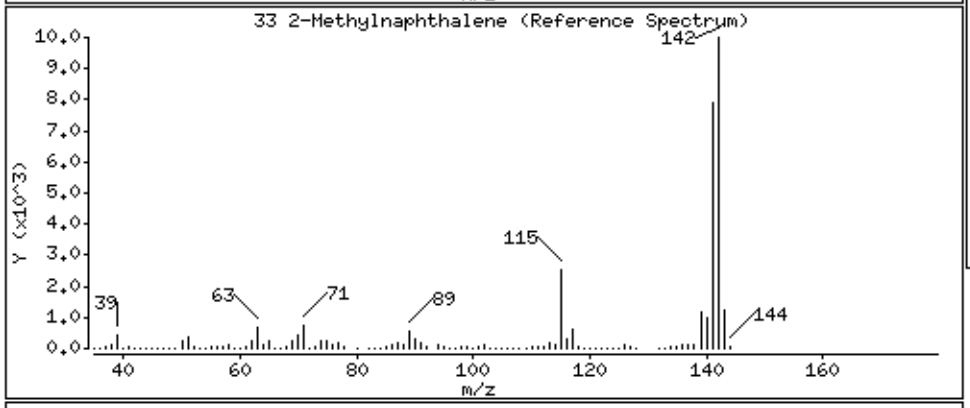
Concentration: 54.26 ug

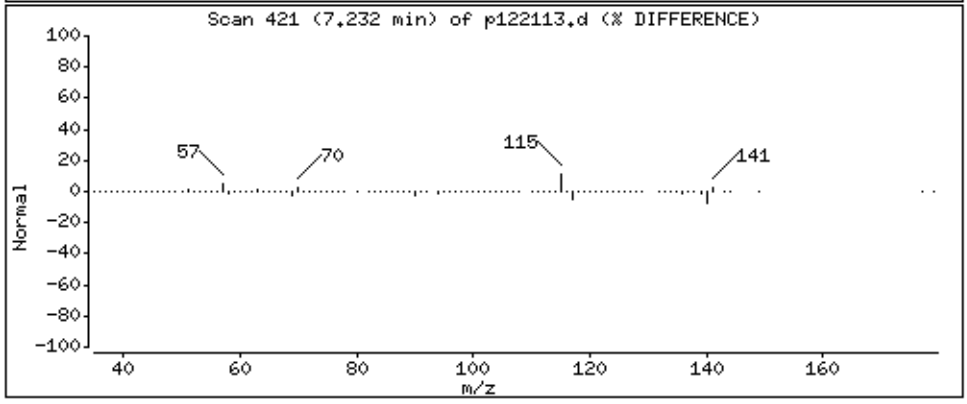












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

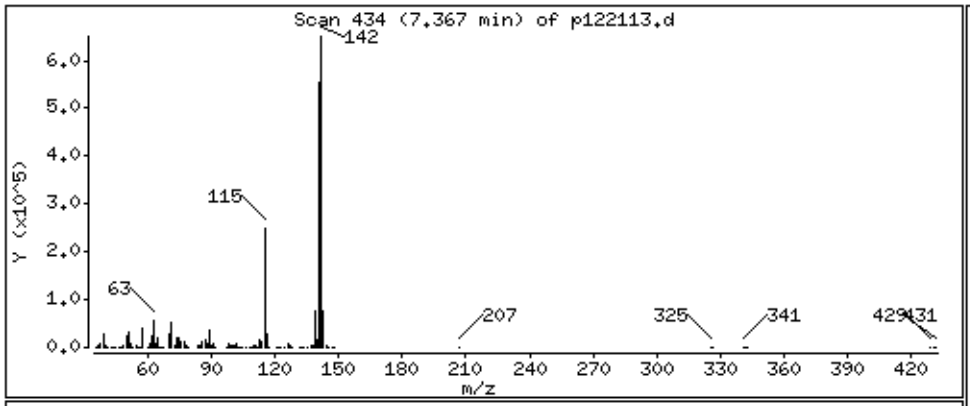
Operator: LP

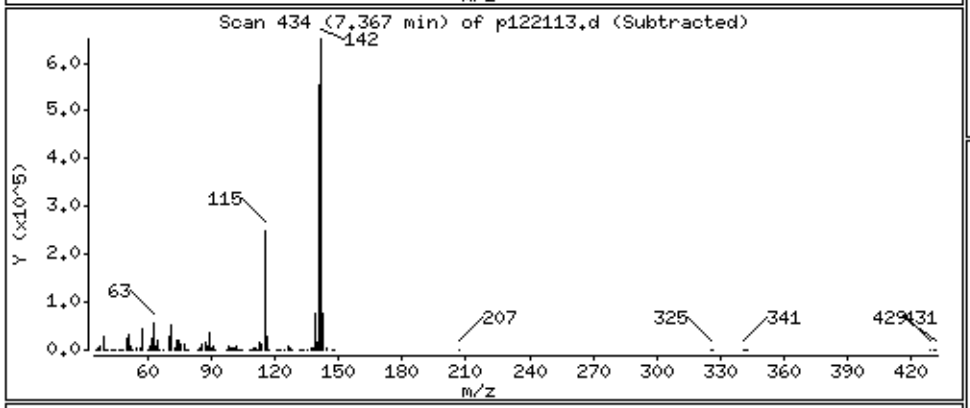
Column phase: DB-5.625

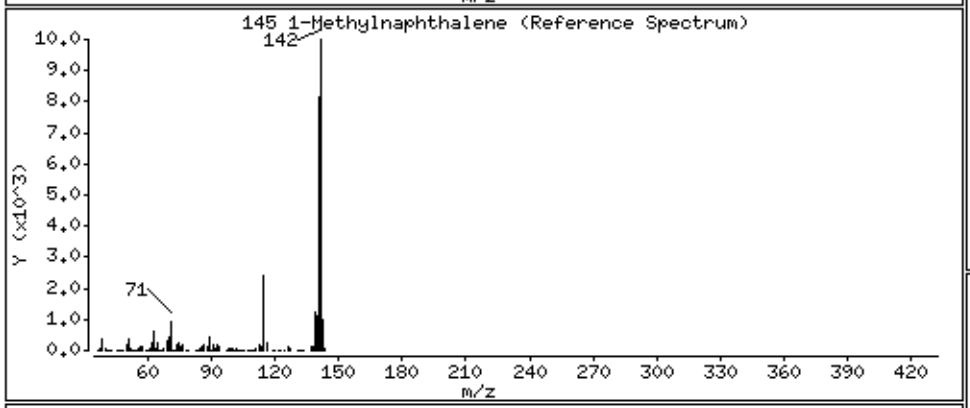
Column diameter: 0.25

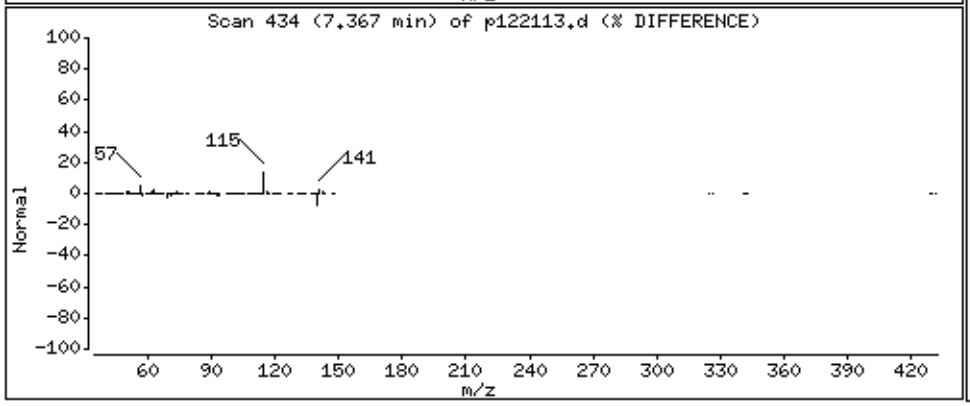
145 1-Methylnaphthalene

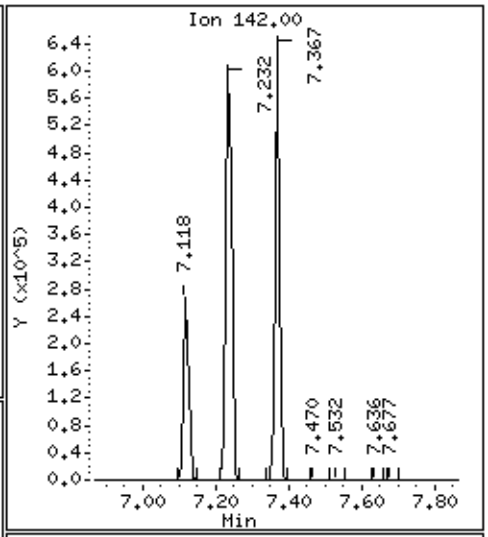
Concentration: 48.82 ug

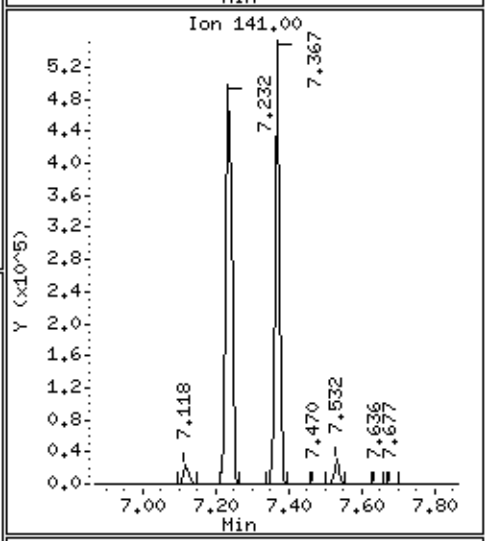


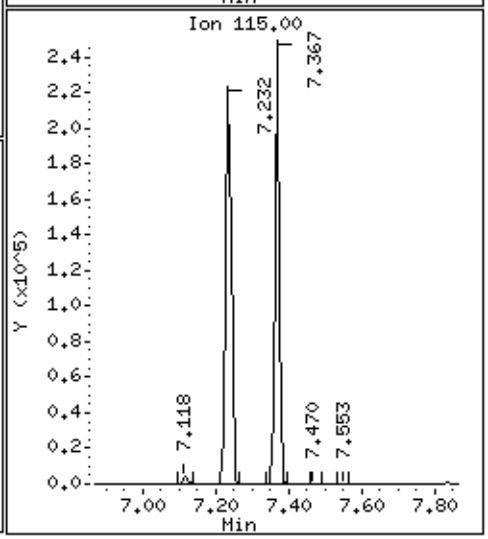












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

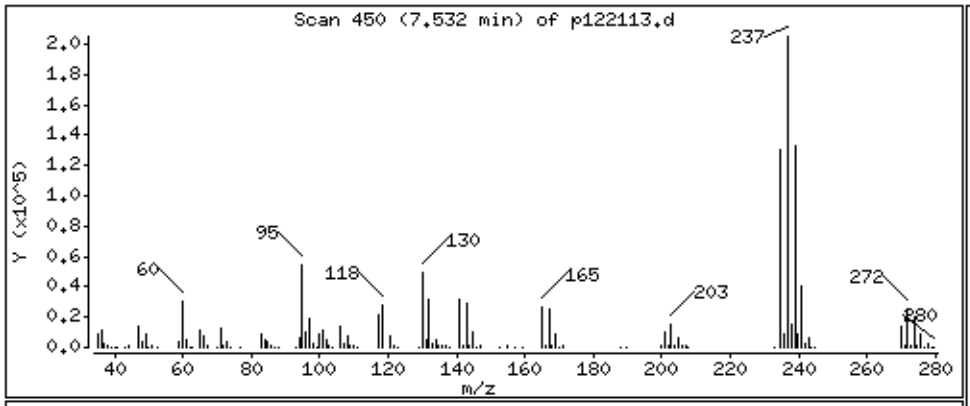
Operator: LP

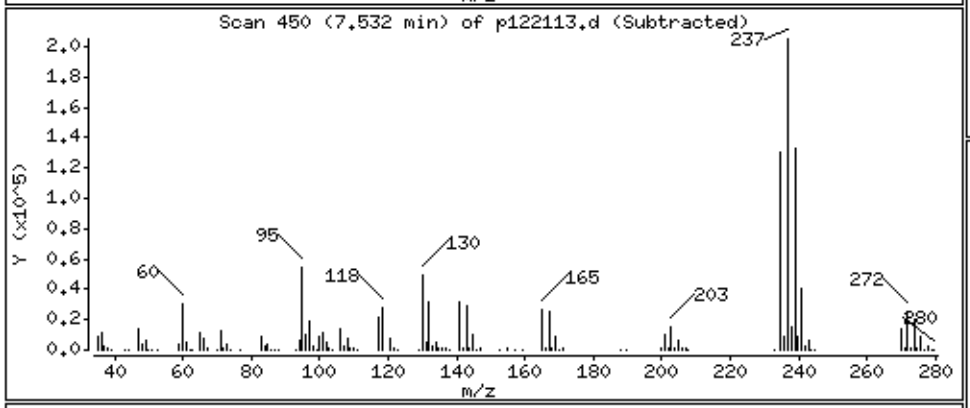
Column phase: DB-5.625

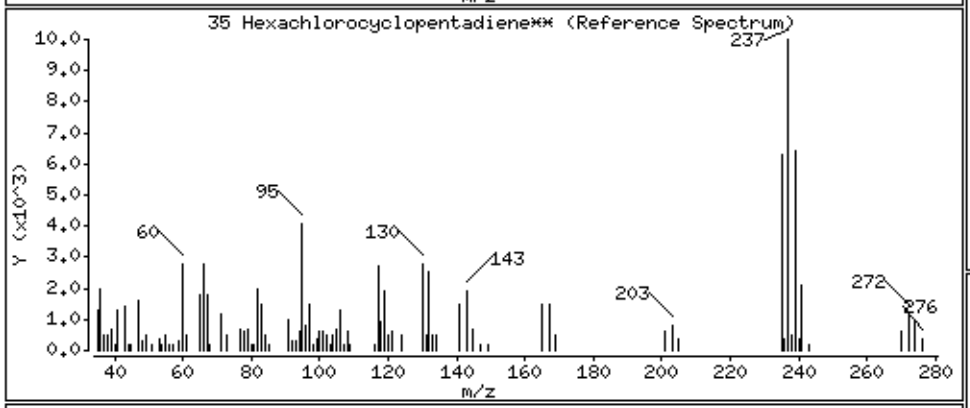
Column diameter: 0.25

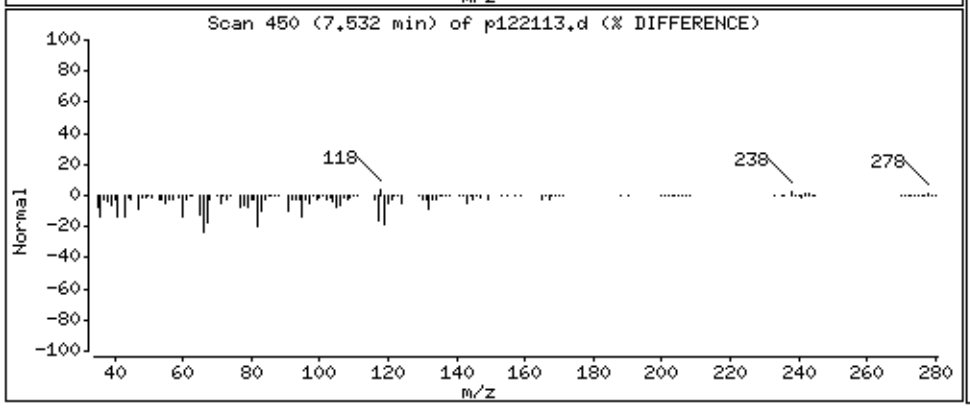
35 Hexachlorocyclopentadiene**

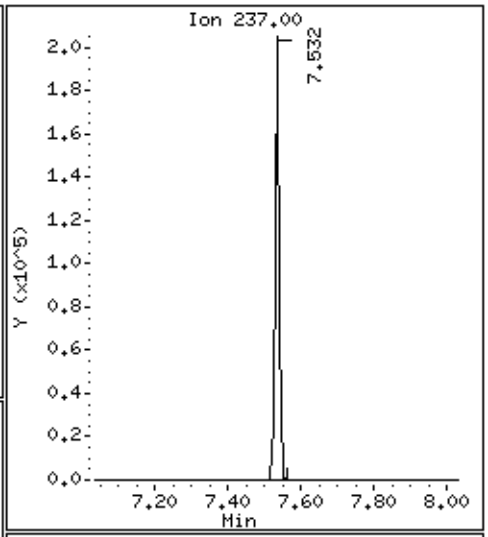
Concentration: 54.65 ug

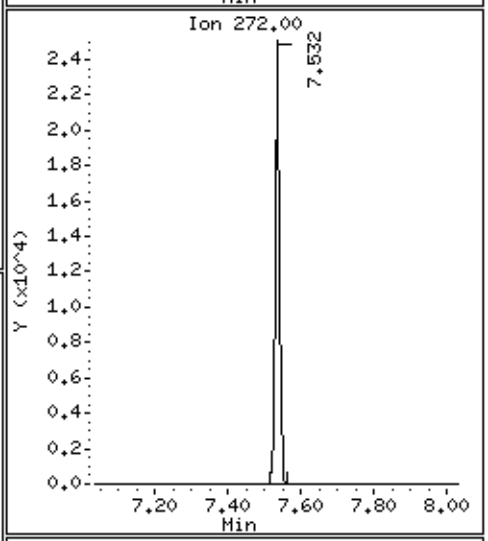


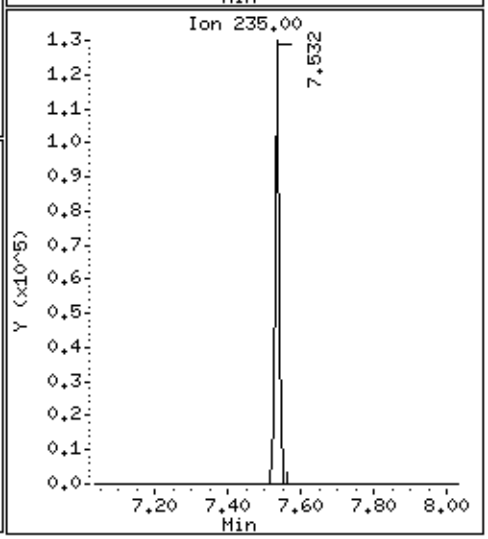












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

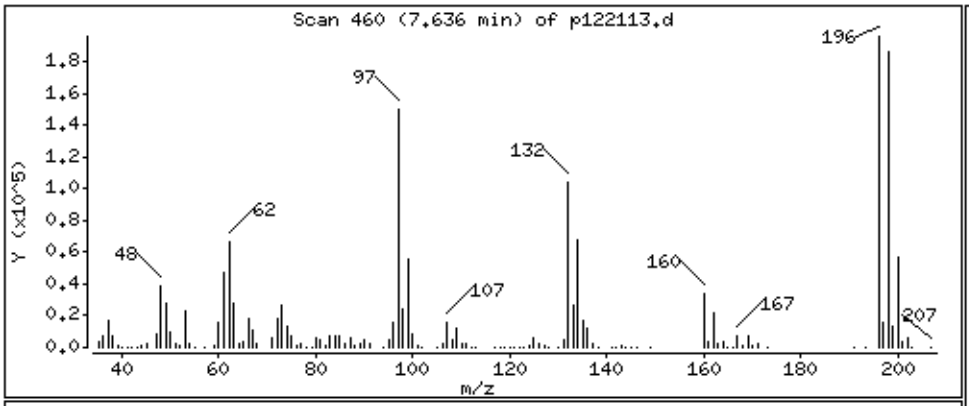
Operator: LP

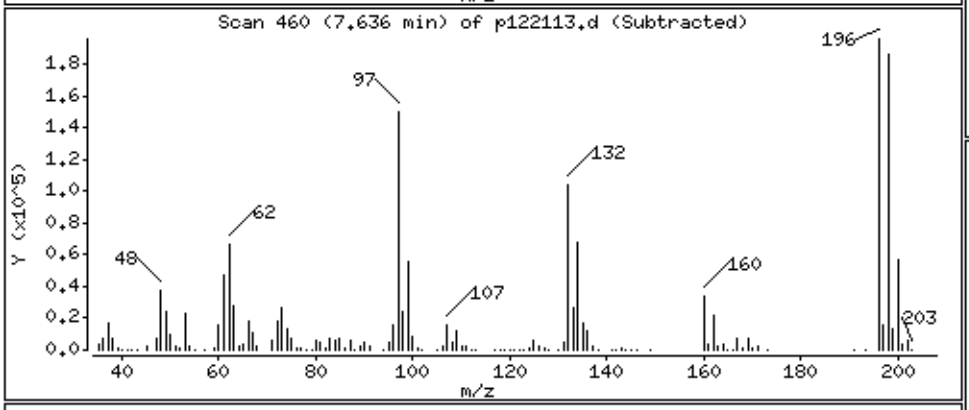
Column phase: DB-5.625

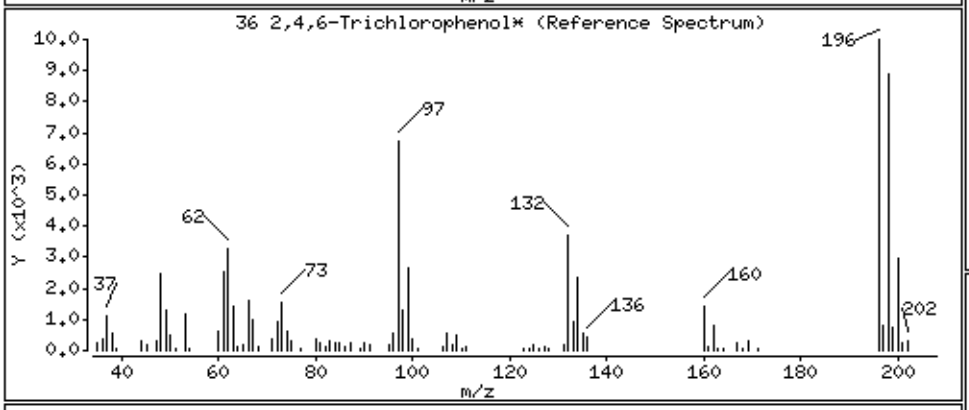
Column diameter: 0.25

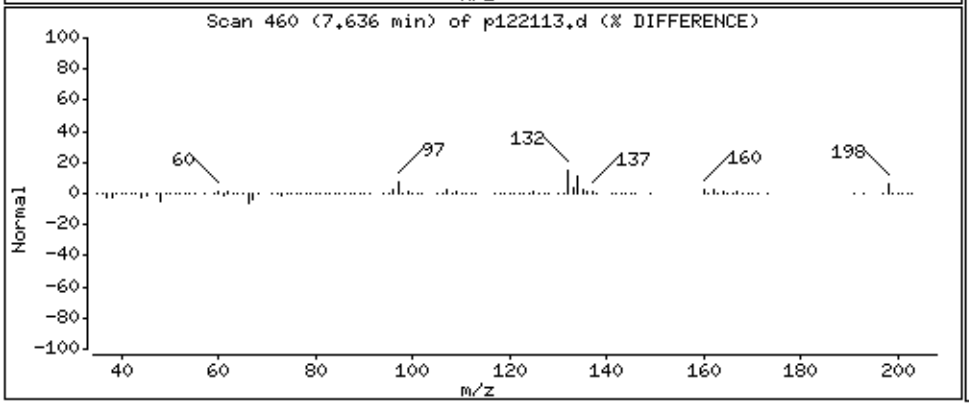
36 2,4,6-Trichlorophenol*

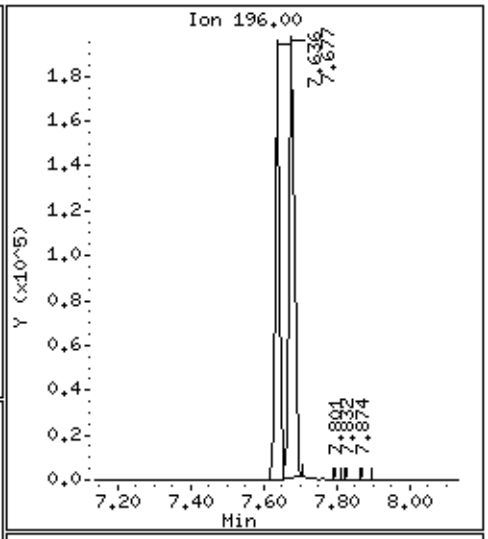
Concentration: 51.28 ug

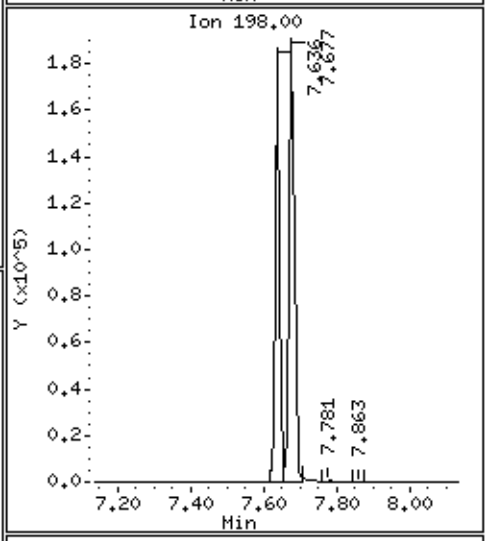


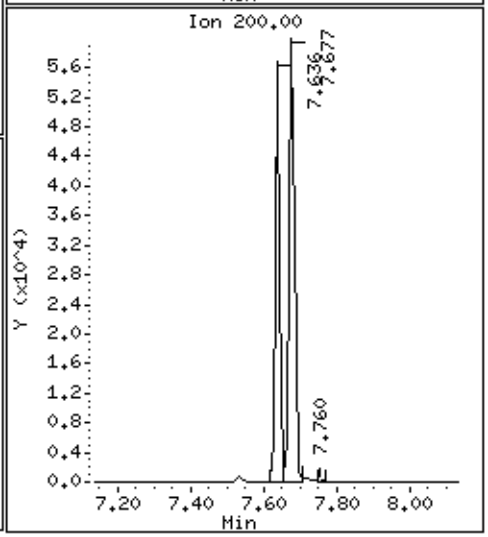












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

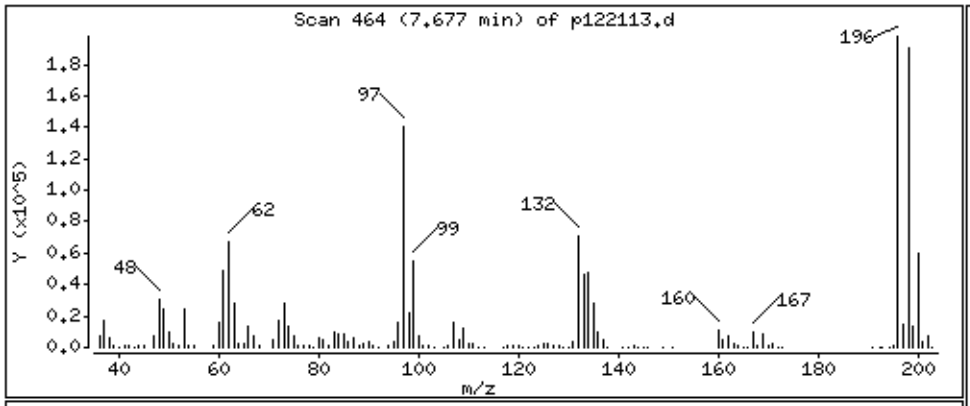
Operator: LP

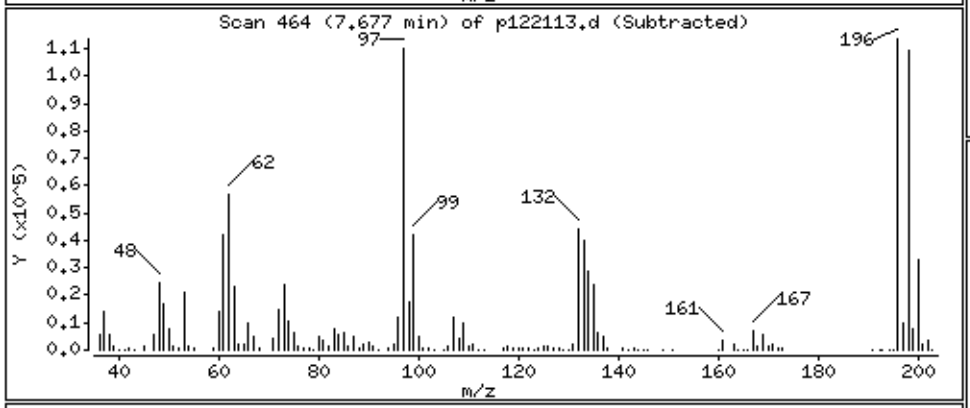
Column phase: DB-5.625

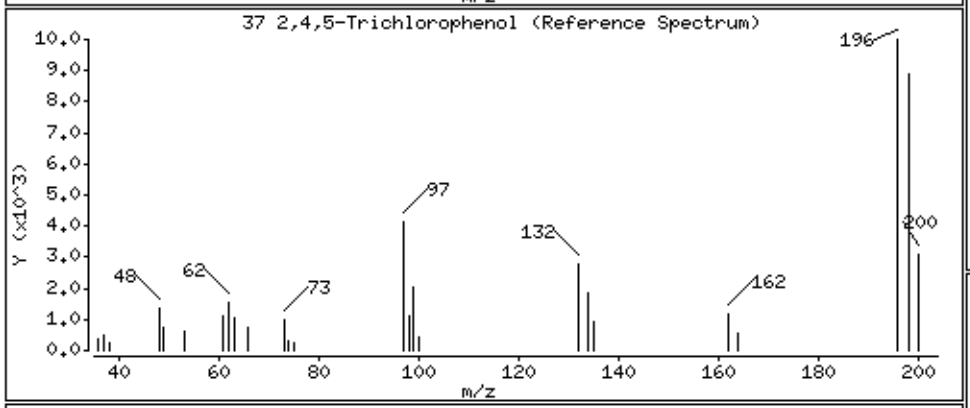
Column diameter: 0.25

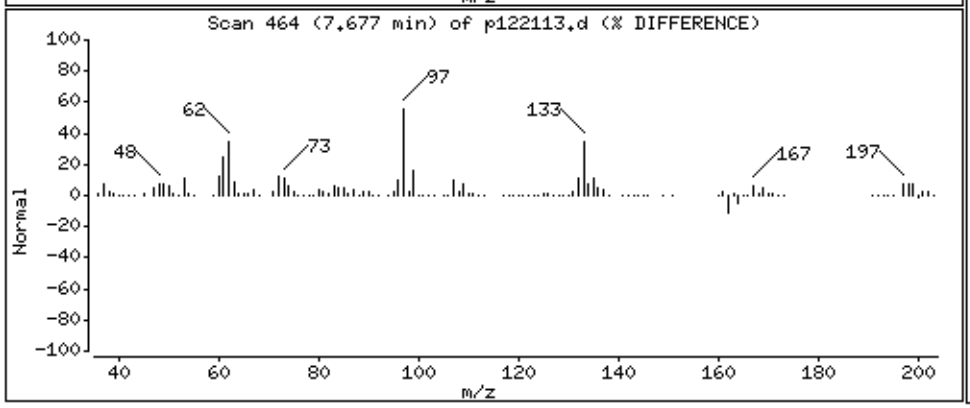
37 2,4,5-Trichlorophenol

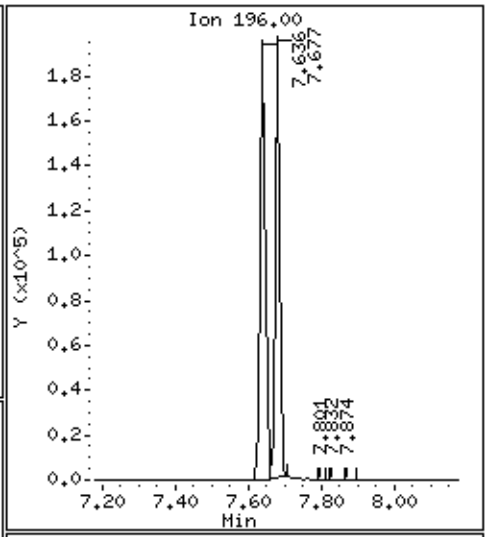
Concentration: 50.51 ug

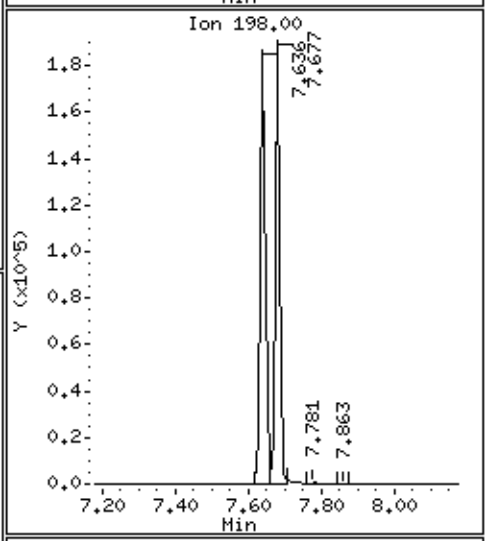


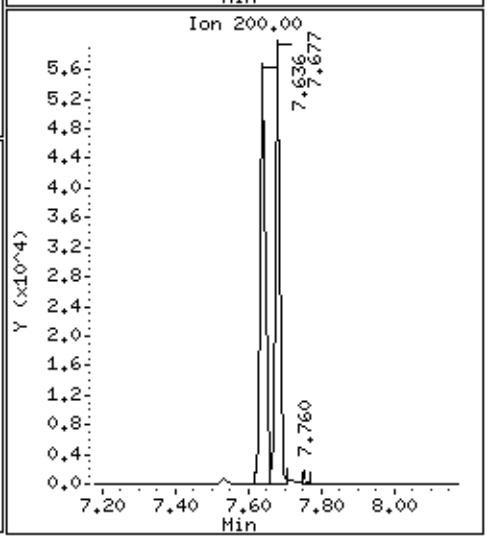












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

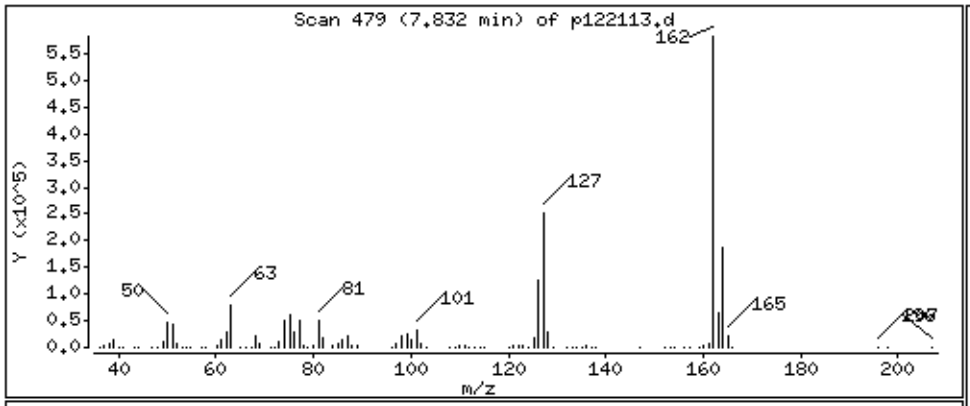
Operator: LP

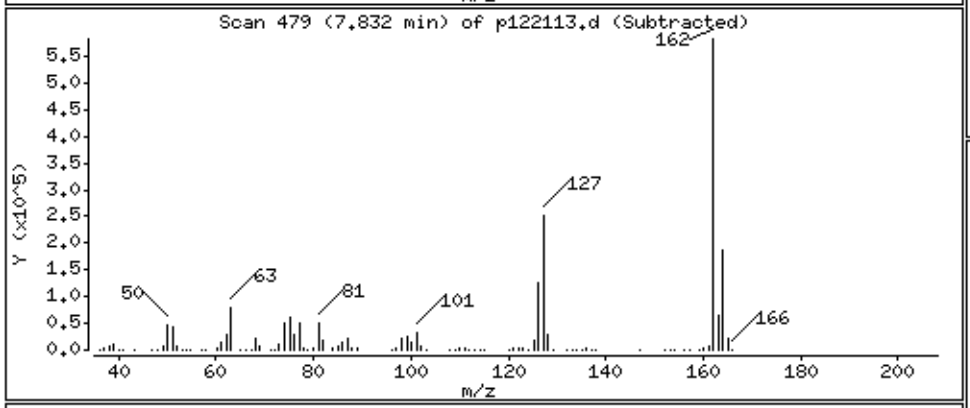
Column phase: DB-5.625

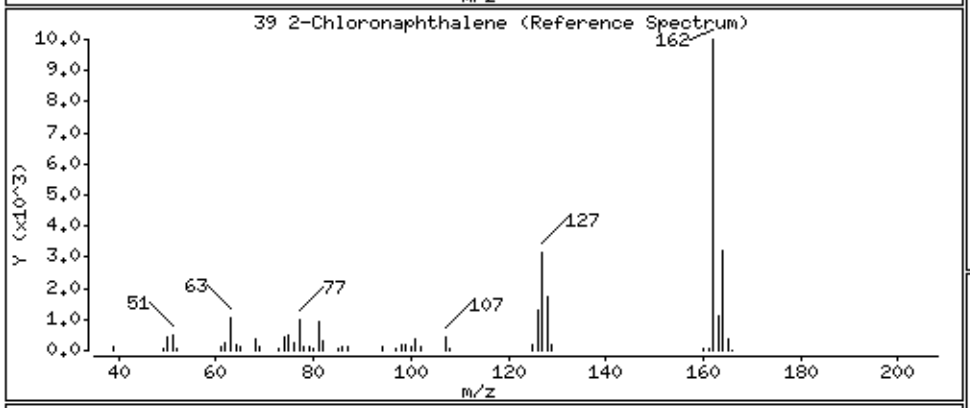
Column diameter: 0.25

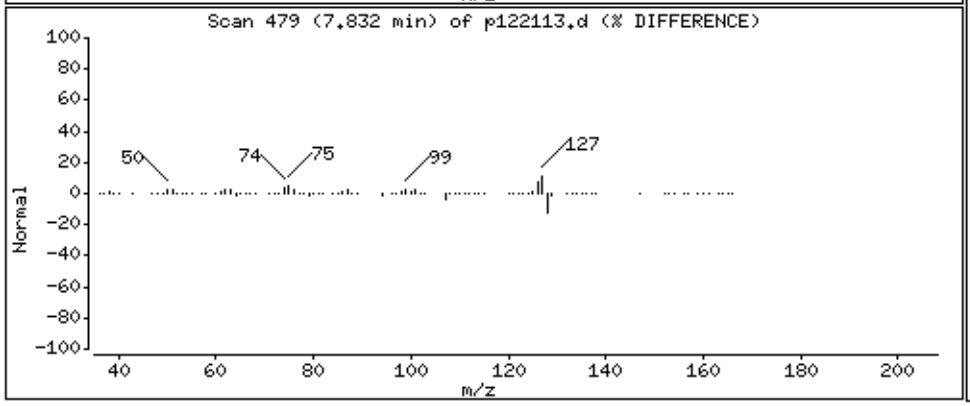
39 2-Chloronaphthalene

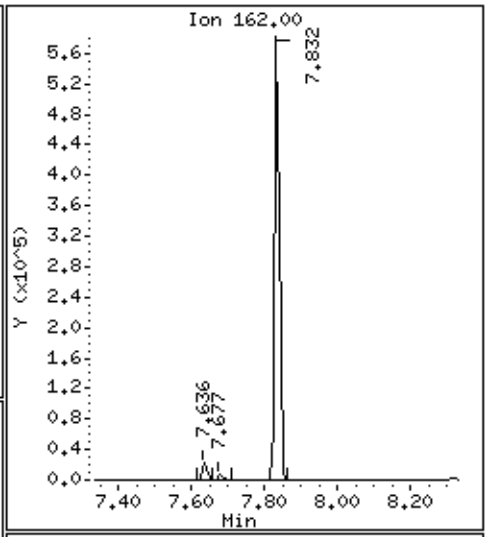
Concentration: 51.13 ug

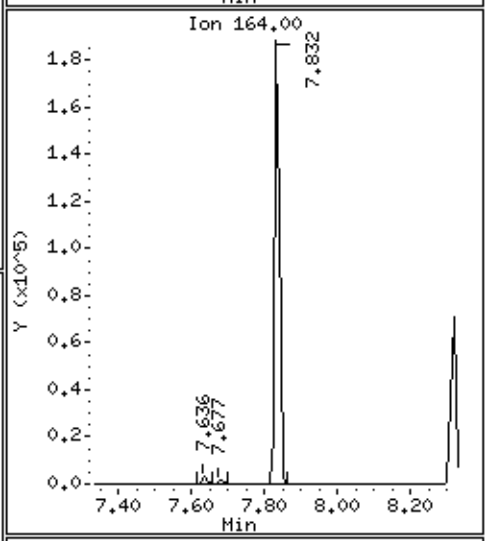


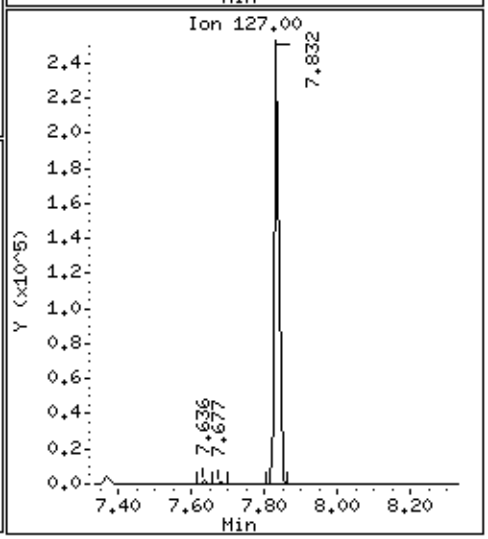












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

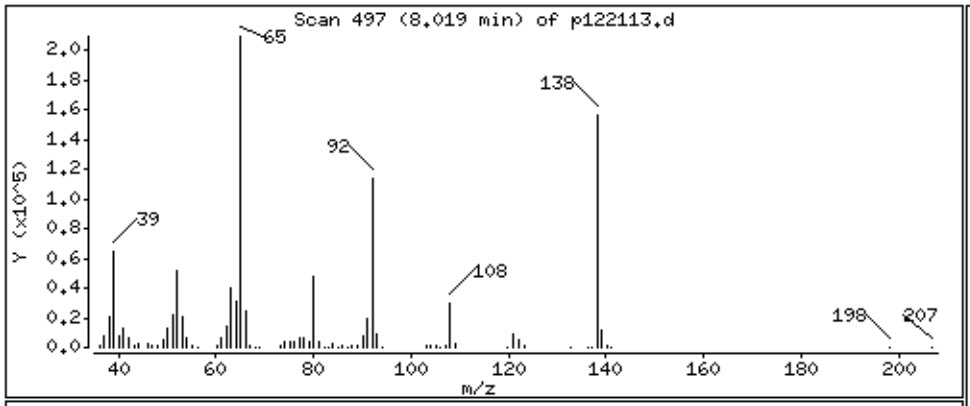
Operator: LP

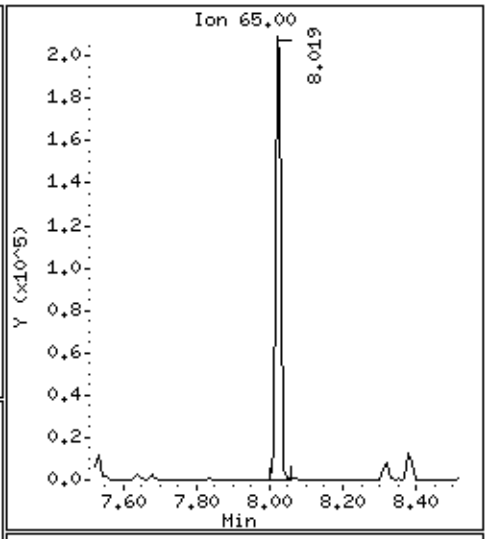
Column phase: DB-5.625

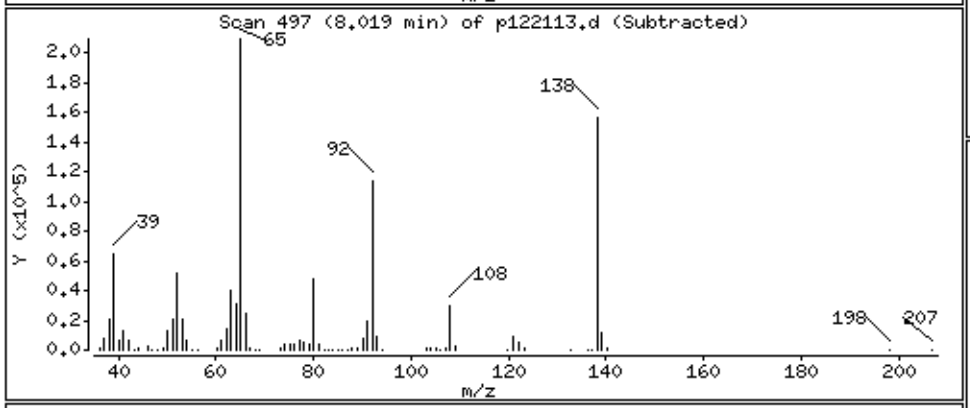
Column diameter: 0.25

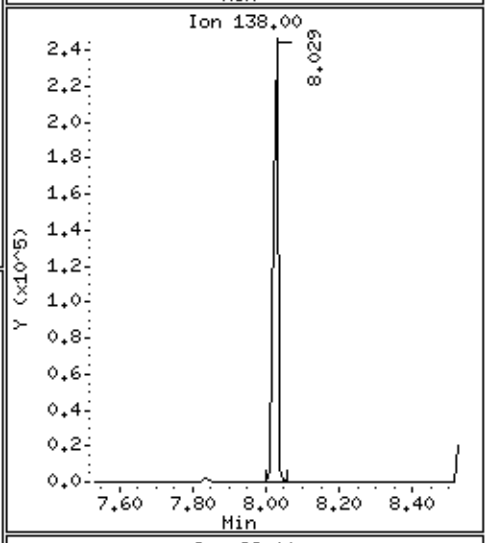
40 2-Nitroaniline

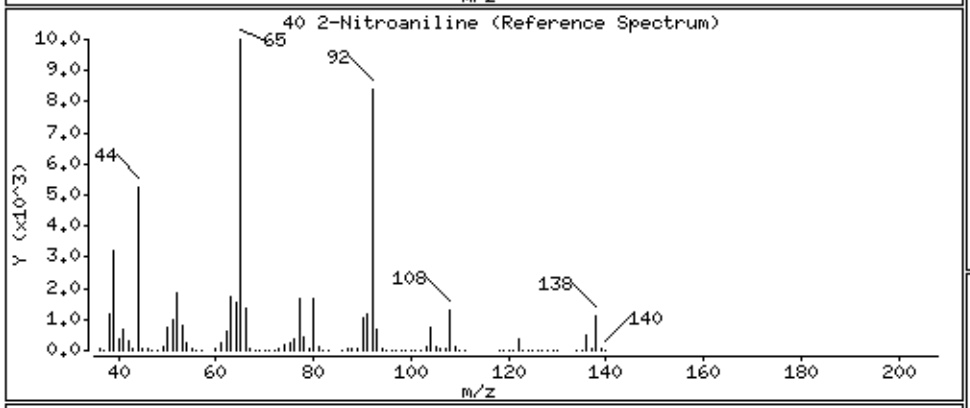
Concentration: 54.28 ug

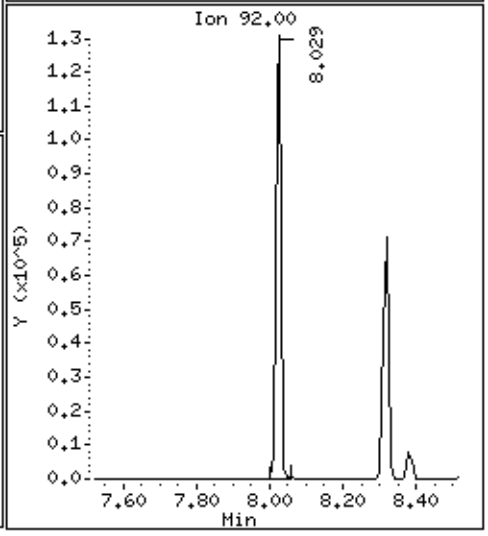


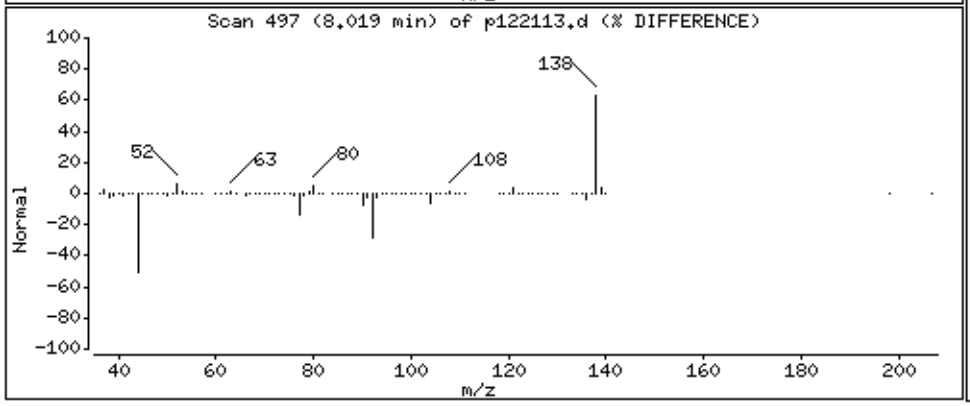












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

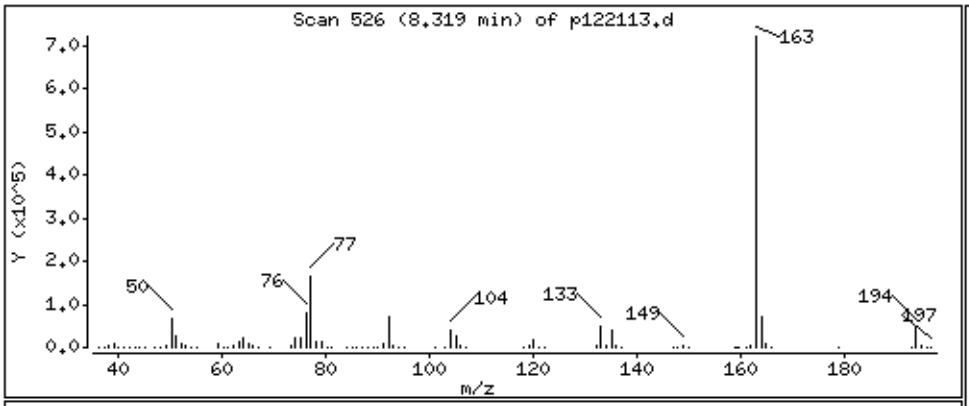
Operator: LP

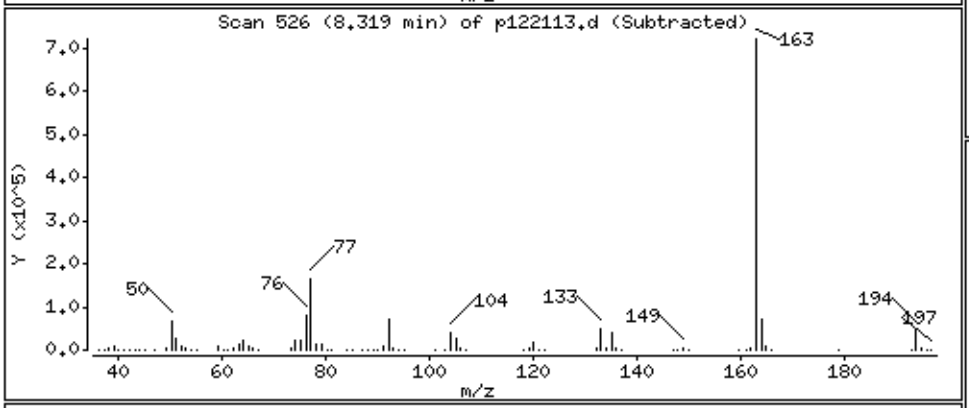
Column phase: DB-5.625

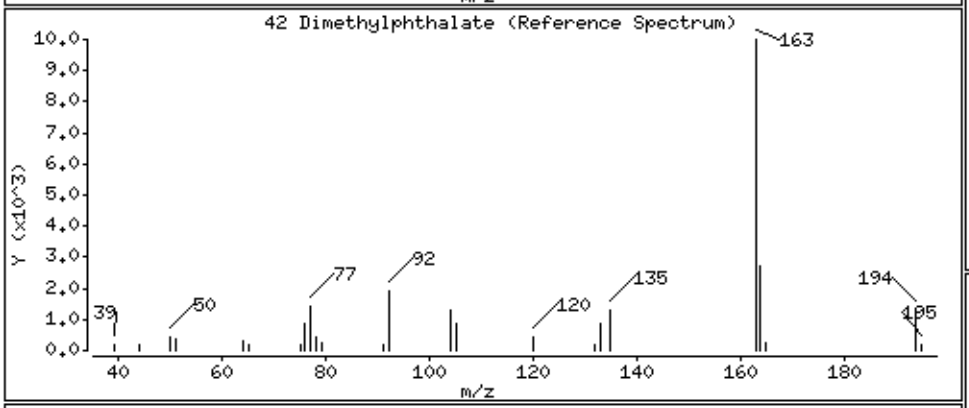
Column diameter: 0.25

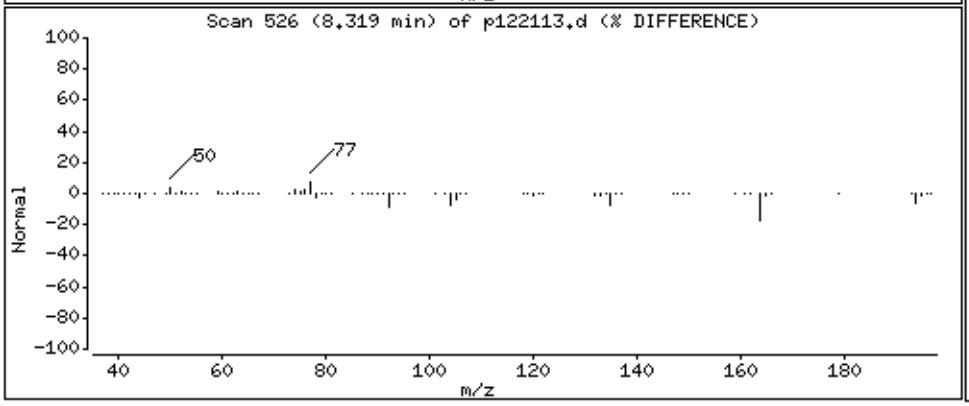
42 Dimethylphthalate

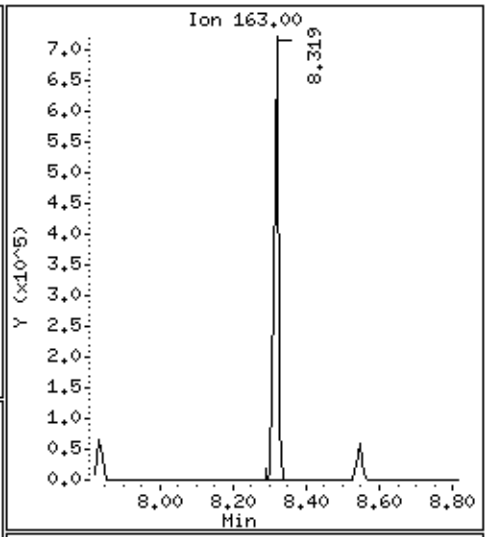
Concentration: 52.96 ug

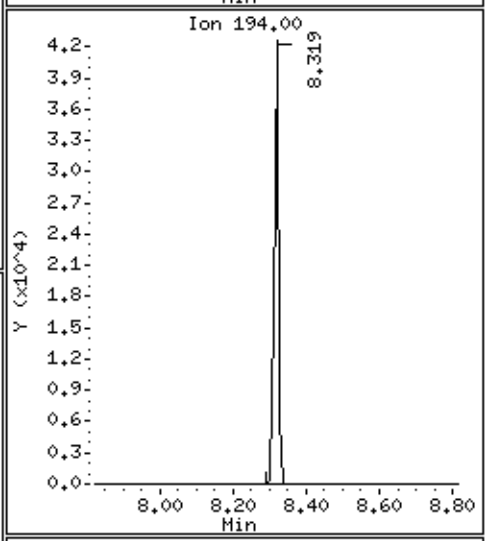


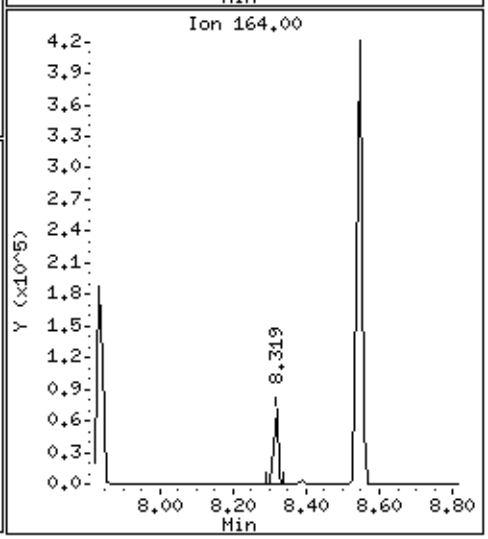












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

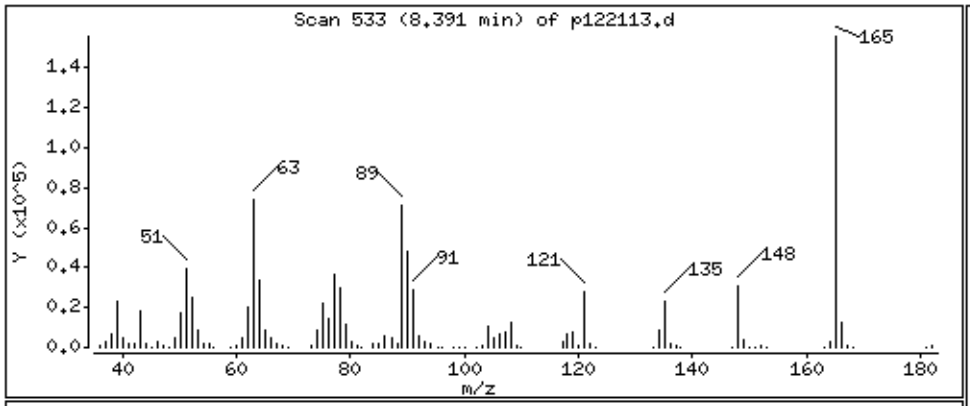
Operator: LP

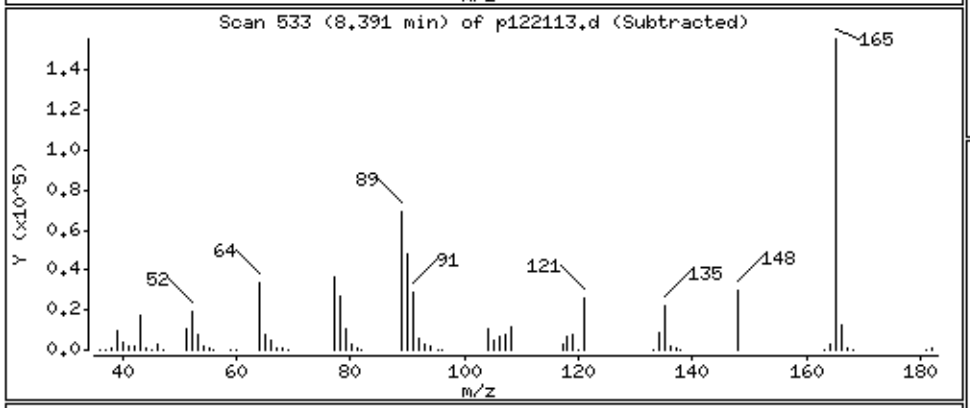
Column phase: DB-5.625

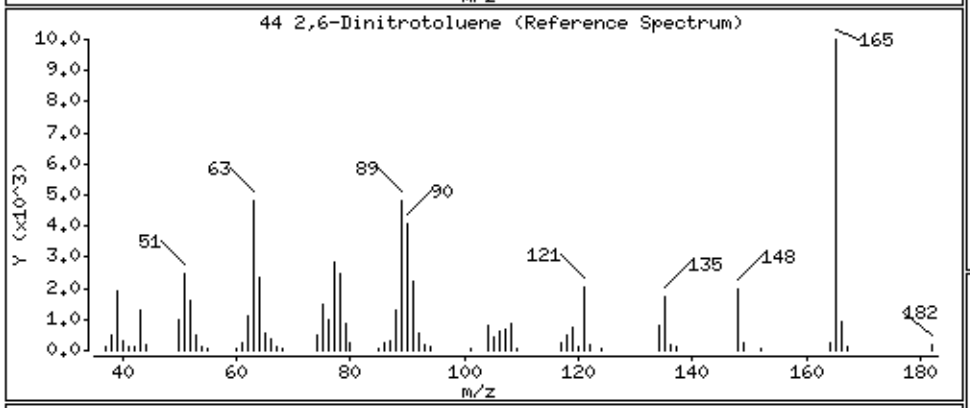
Column diameter: 0.25

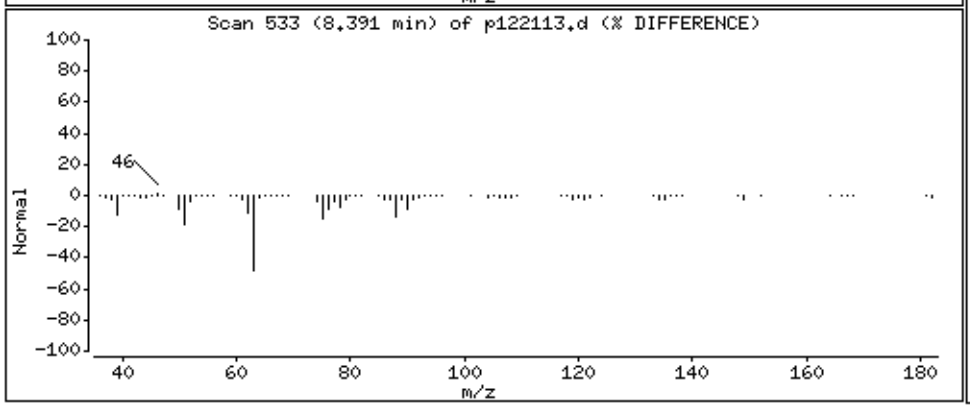
44 2,6-Dinitrotoluene

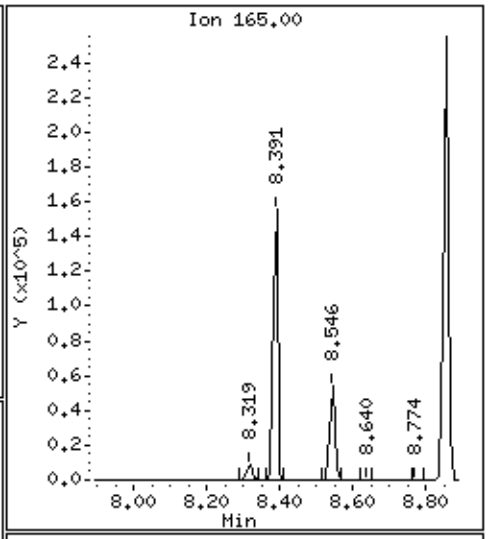
Concentration: 51.15 ug

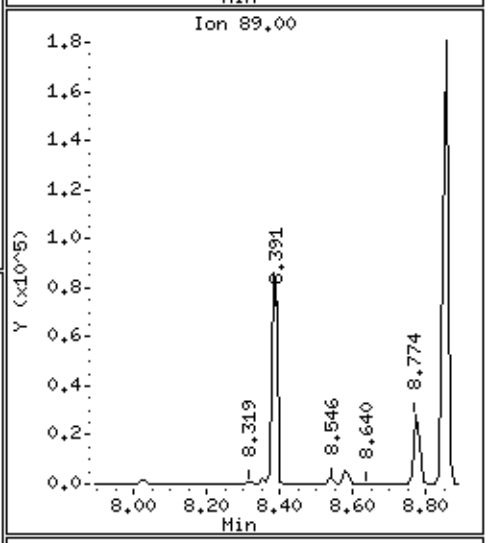


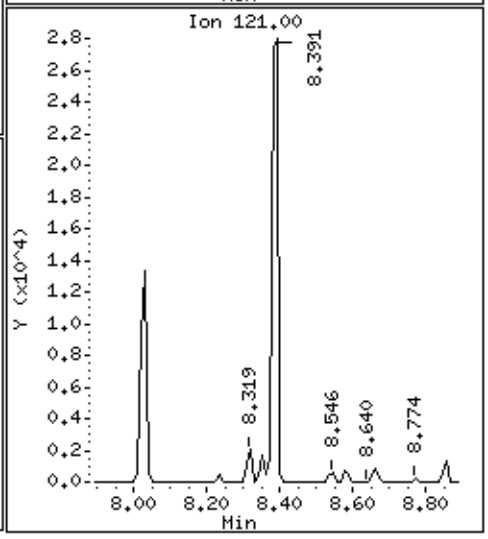












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

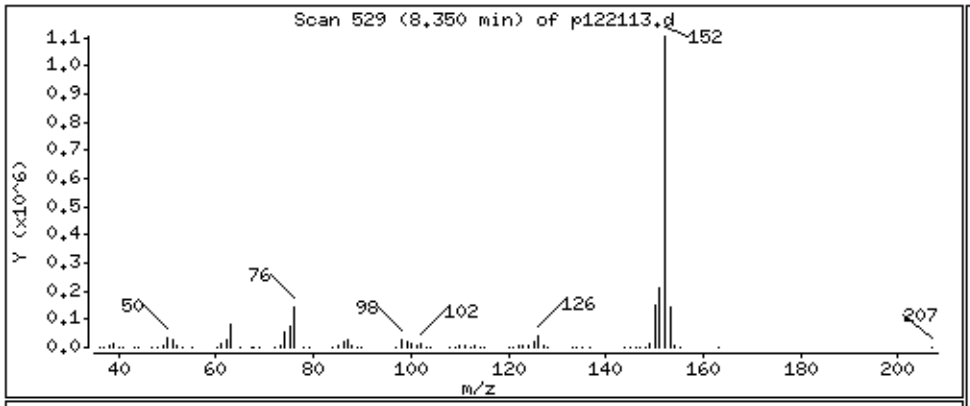
Operator: LP

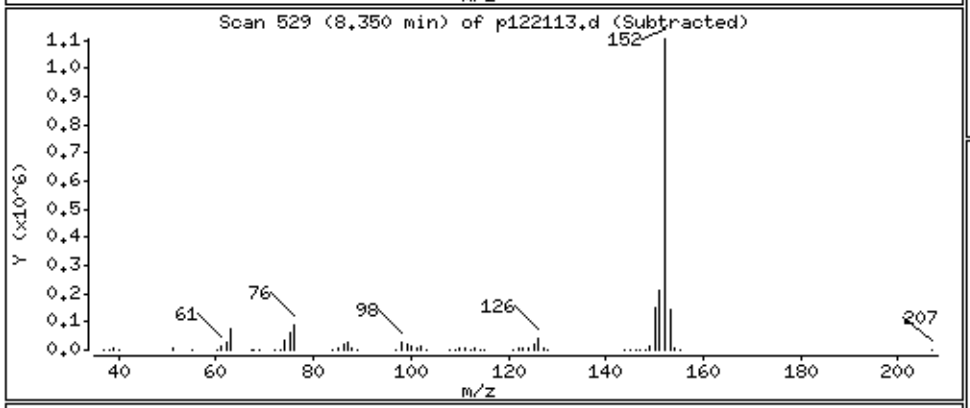
Column phase: DB-5.625

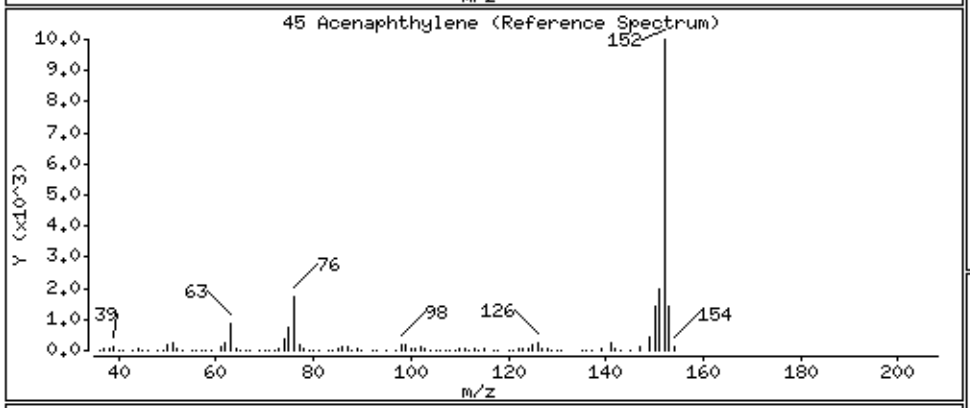
Column diameter: 0.25

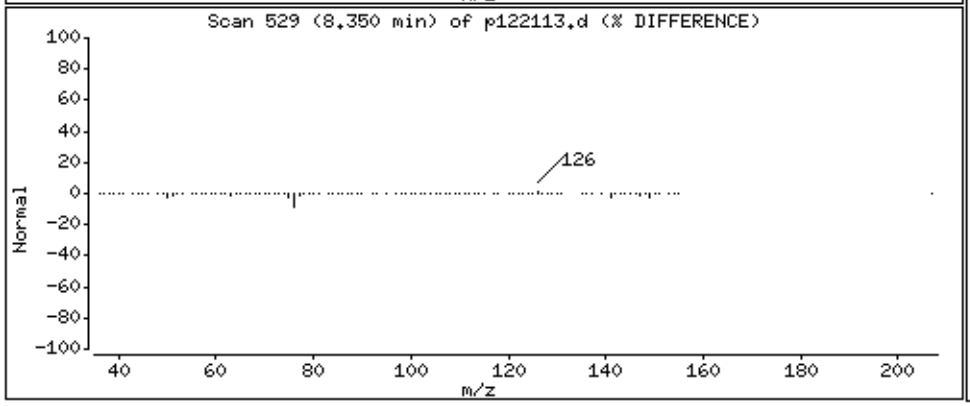
45 Acenaphthylene

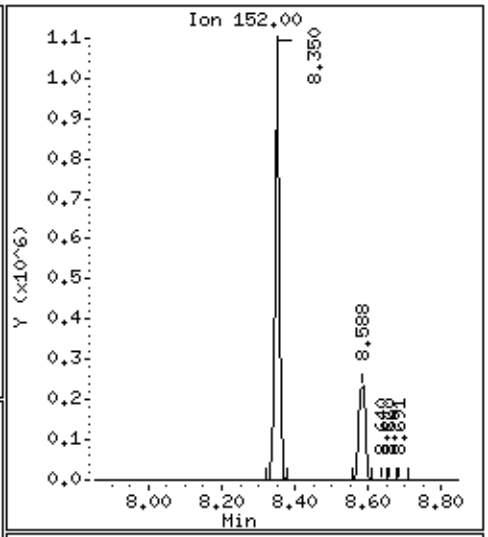
Concentration: 52.67 ug

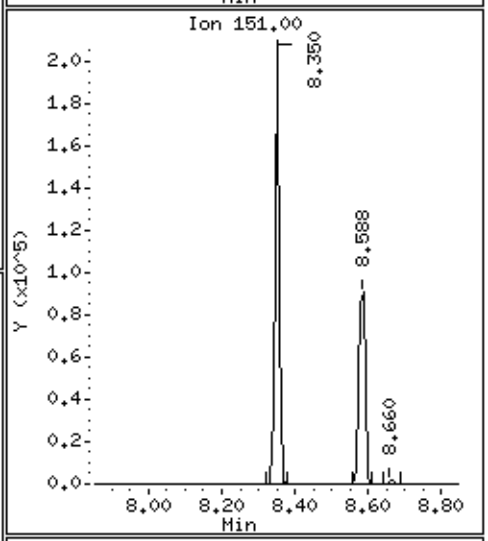


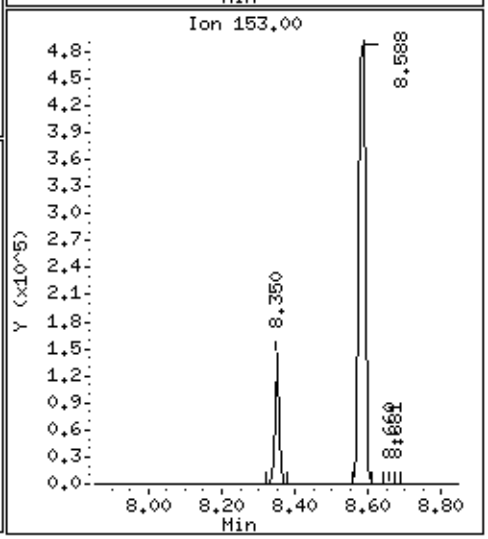












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

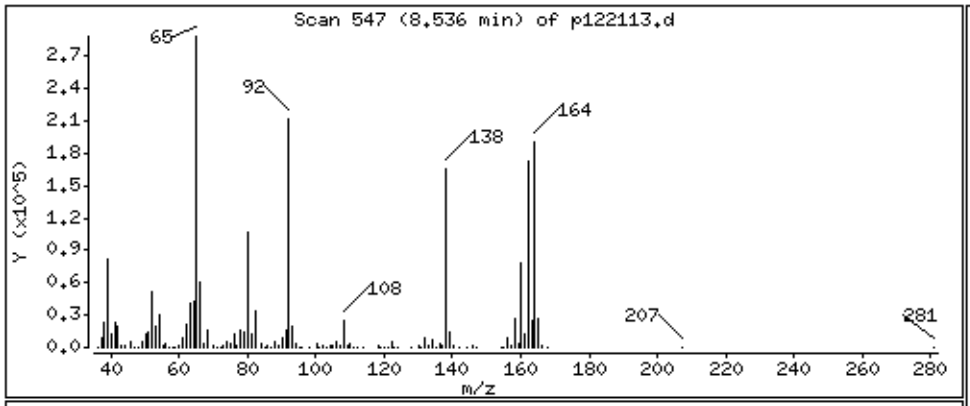
Operator: LP

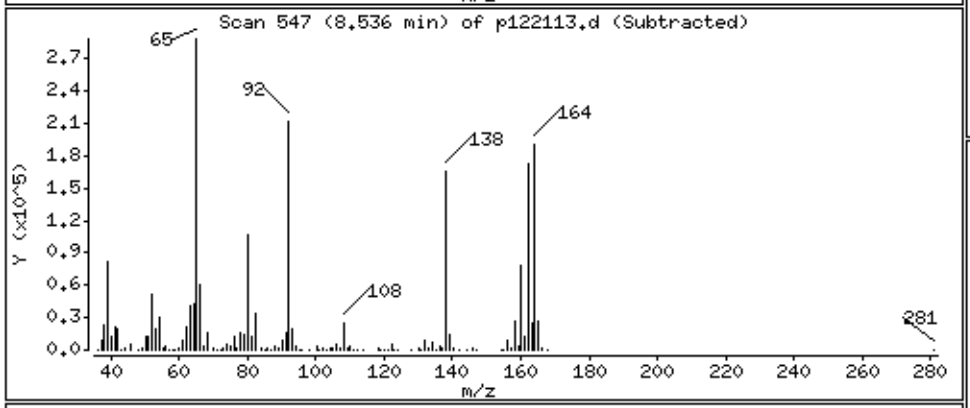
Column phase: DB-5.625

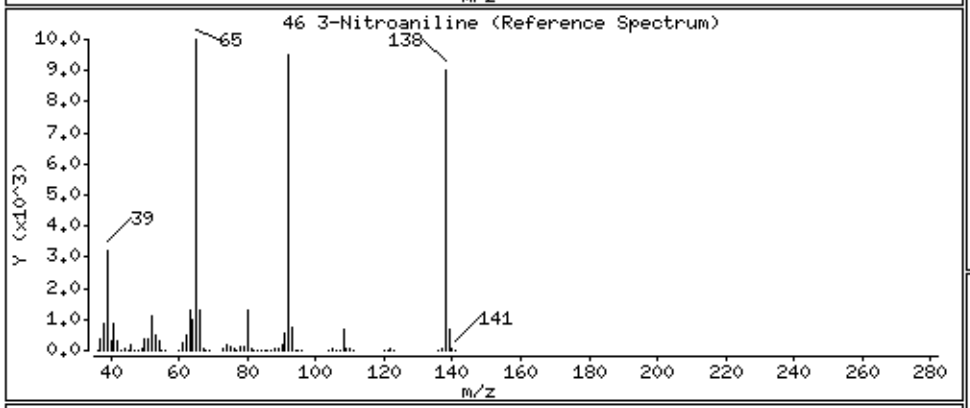
Column diameter: 0.25

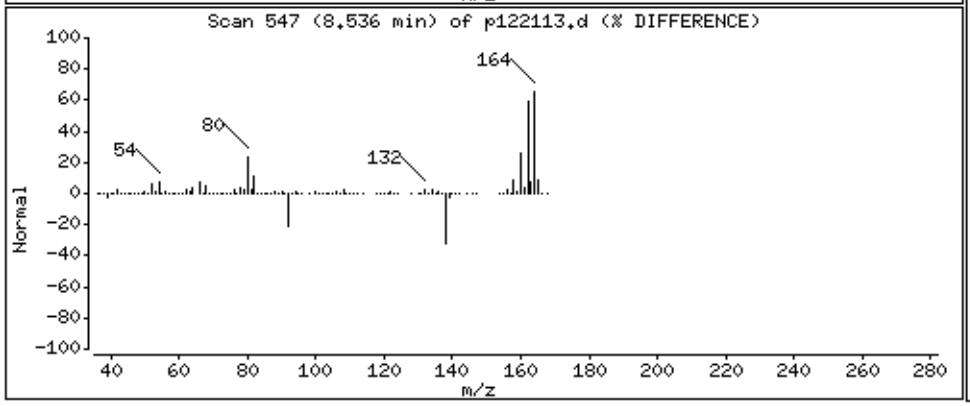
46 3-Nitroaniline

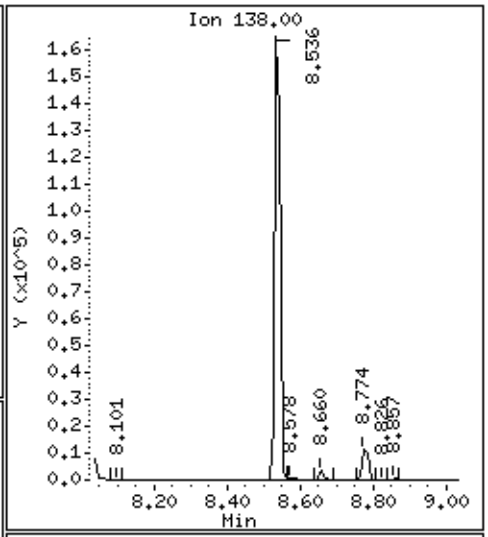
Concentration: 52.79 ug

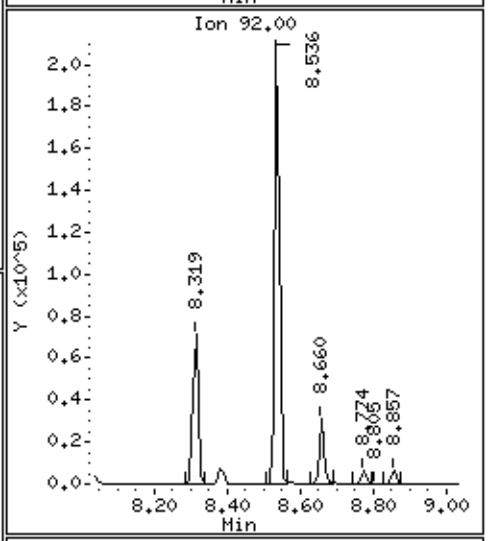


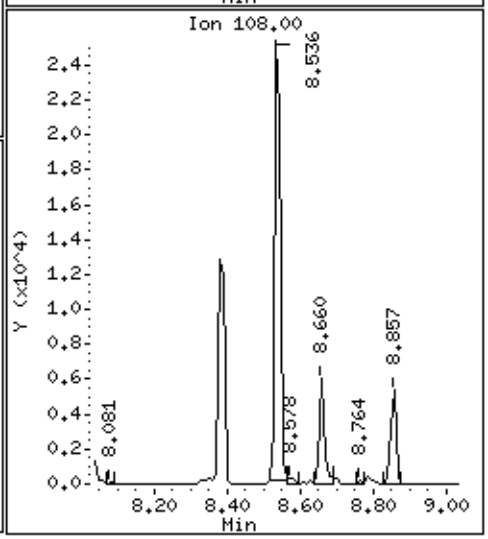












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

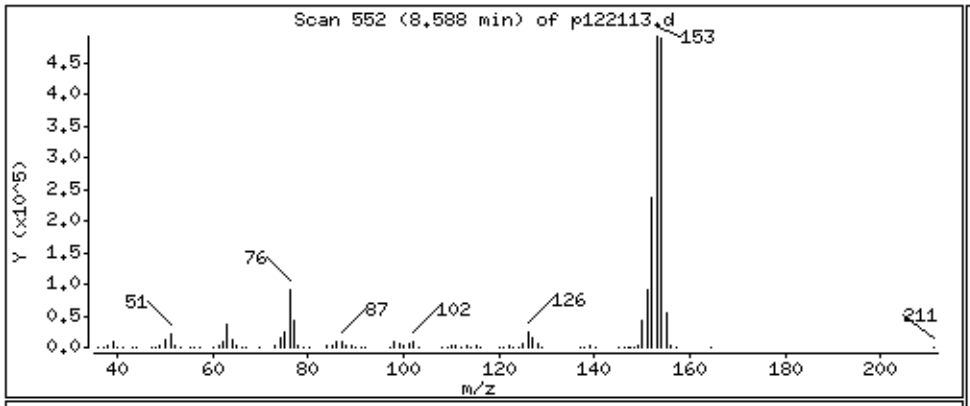
Operator: LP

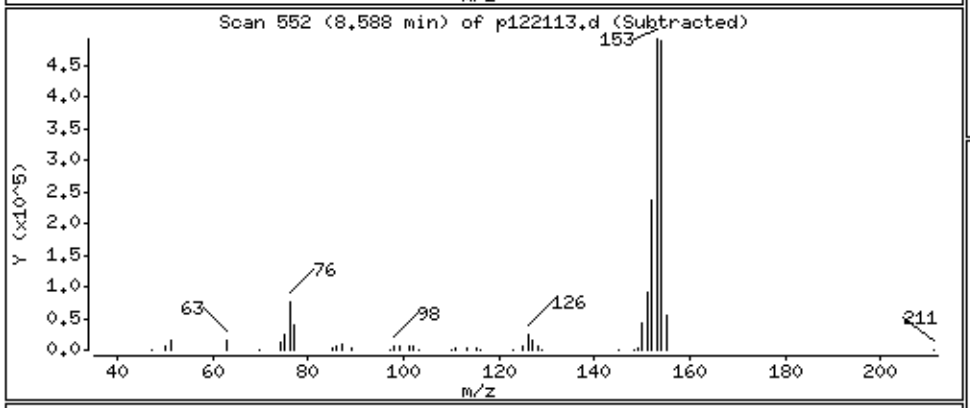
Column phase: DB-5.625

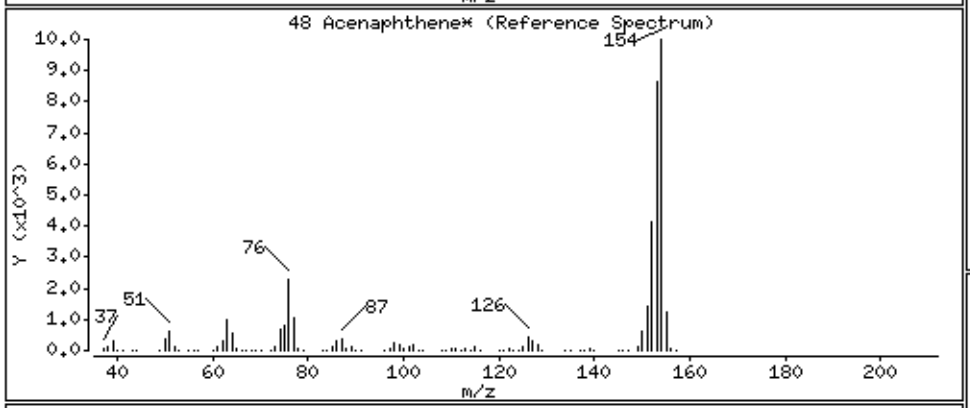
Column diameter: 0.25

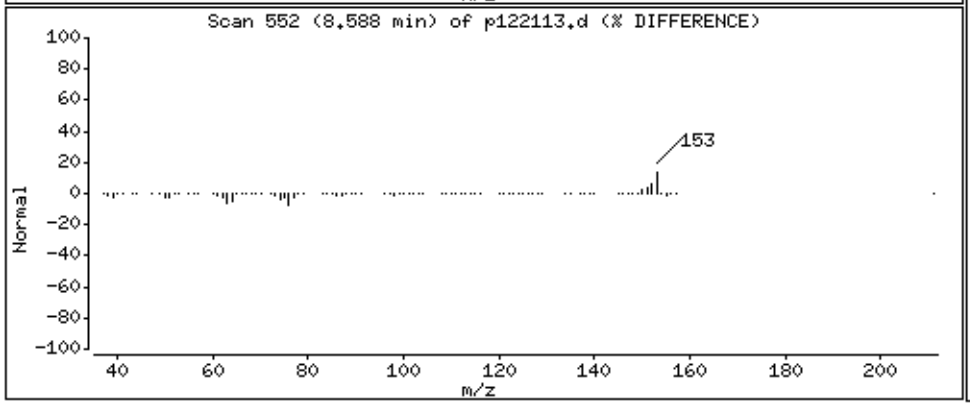
48 Acenaphthene*

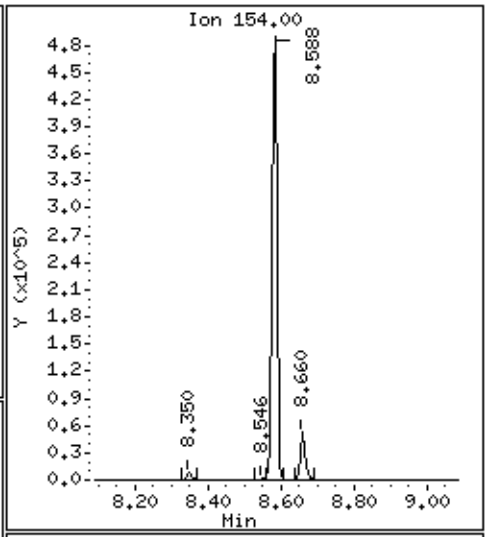
Concentration: 51.43 ug

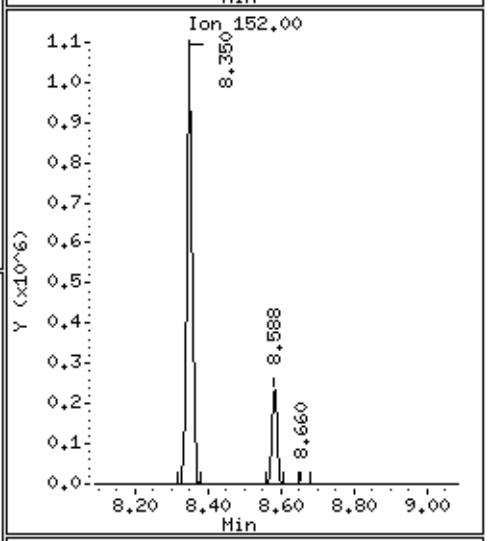


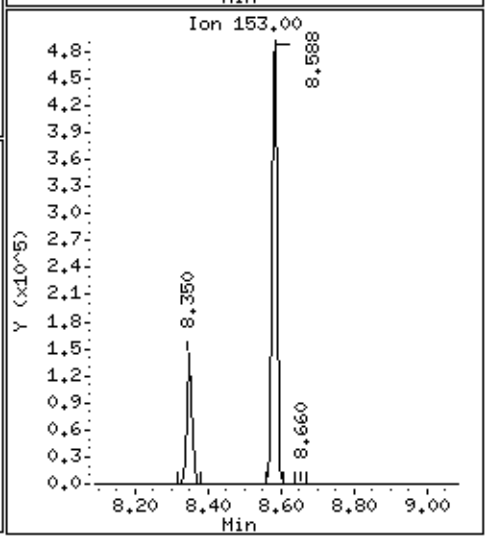












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

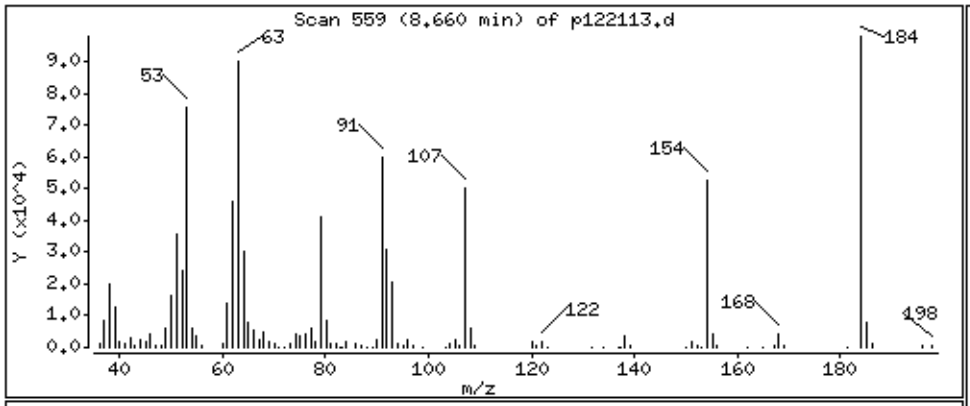
Operator: LP

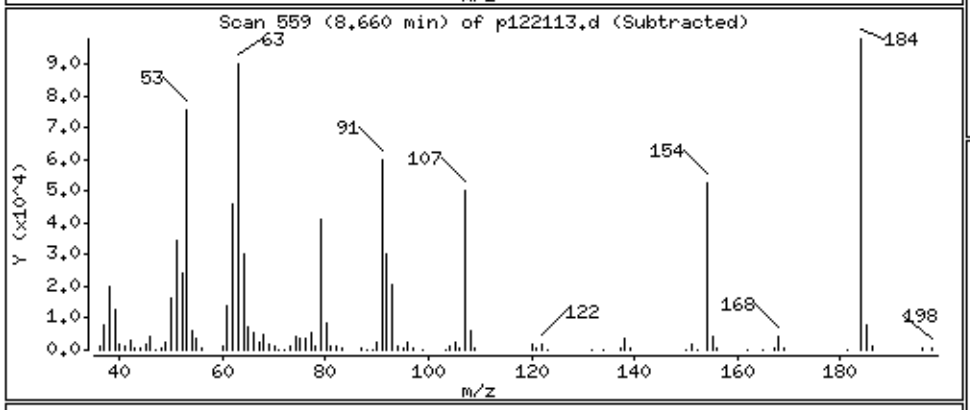
Column phase: DB-5.625

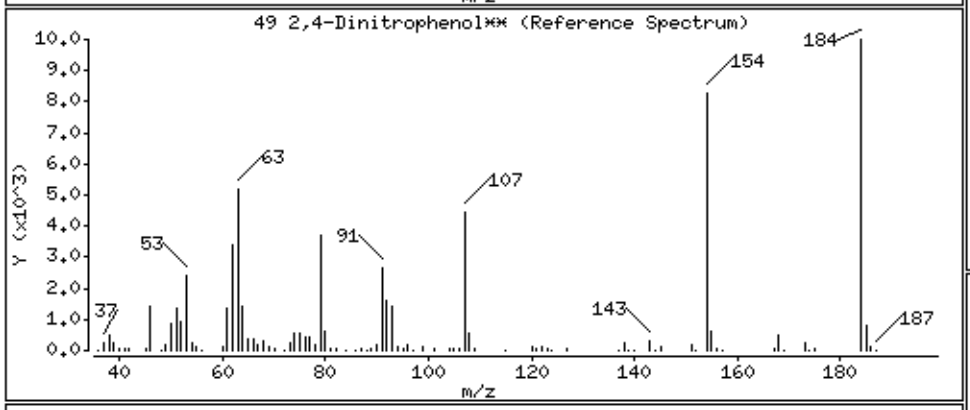
Column diameter: 0.25

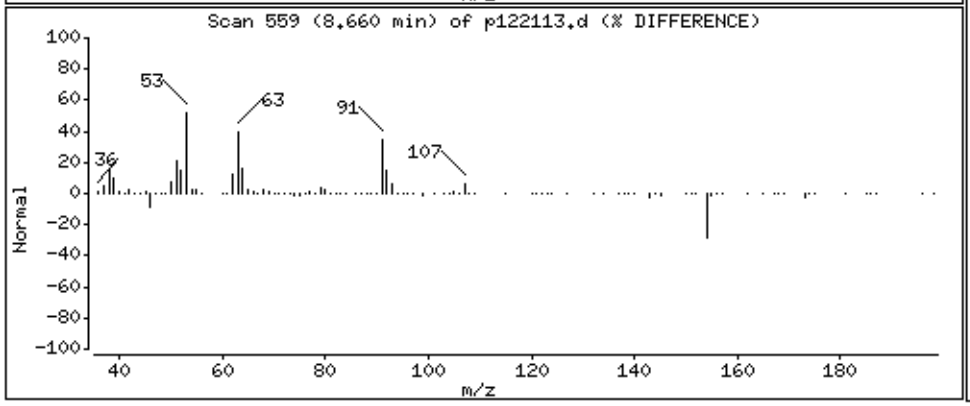
49 2,4-Dinitrophenol**

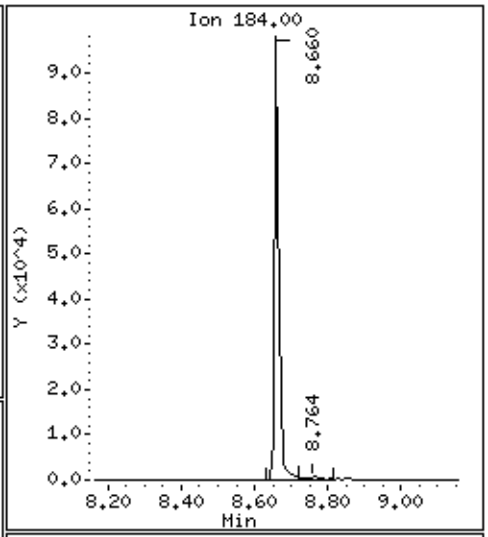
Concentration: 50.88 ug

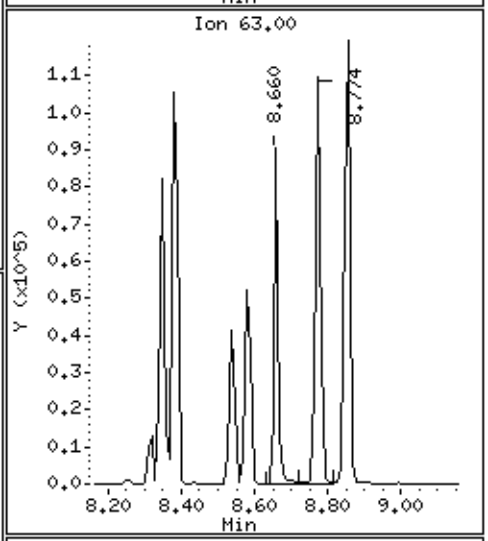


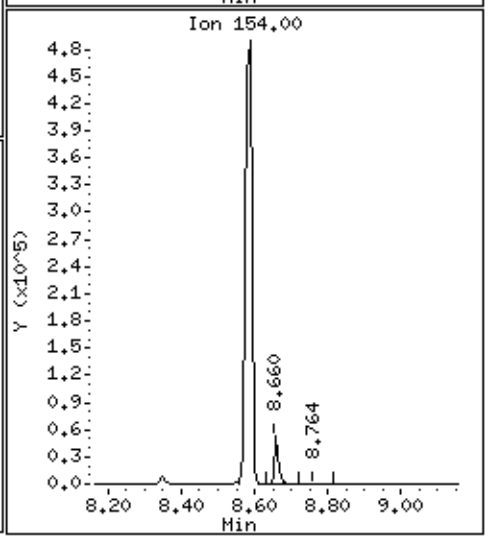












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

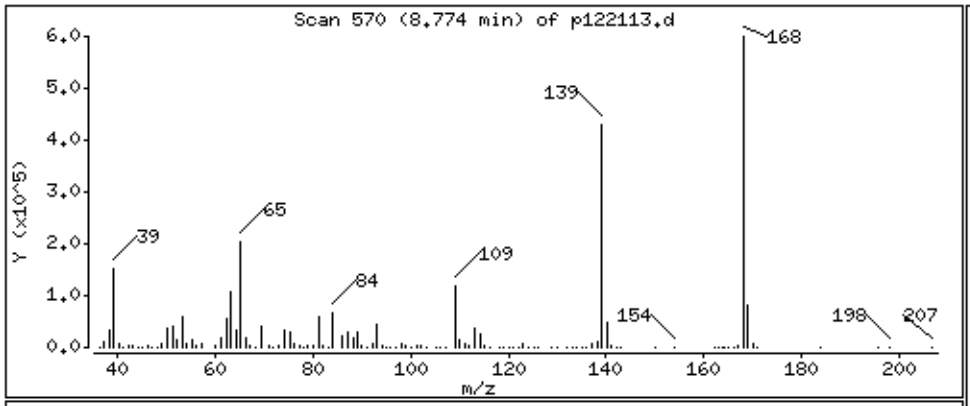
Operator: LP

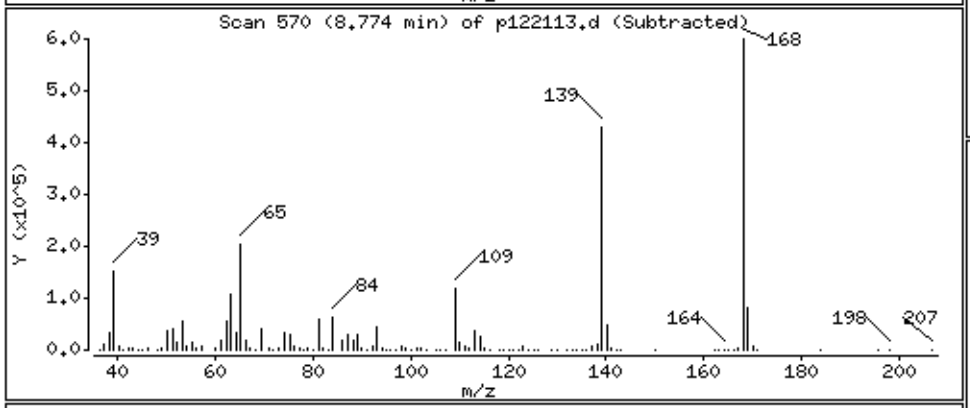
Column phase: DB-5.625

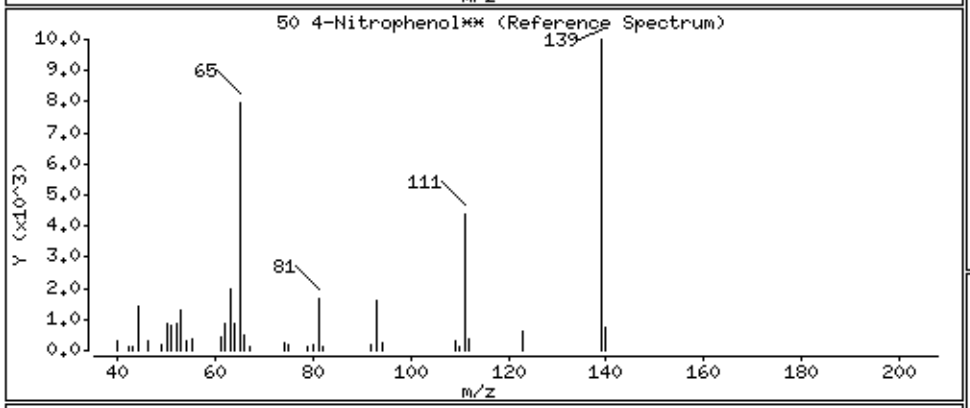
Column diameter: 0.25

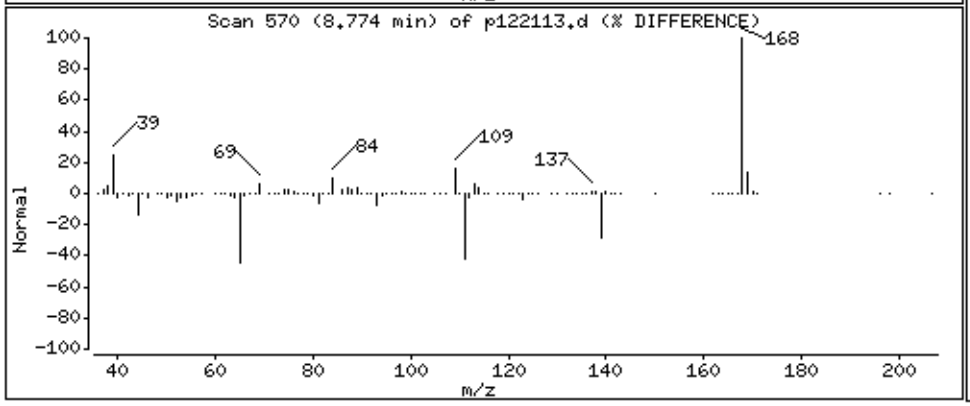
50 4-Nitrophenol**

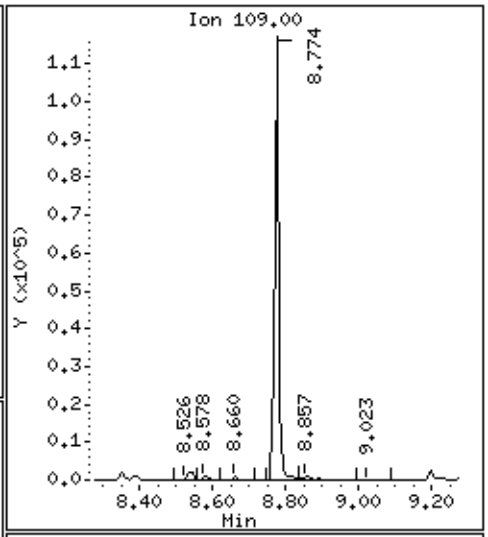
Concentration: 49.88 ug

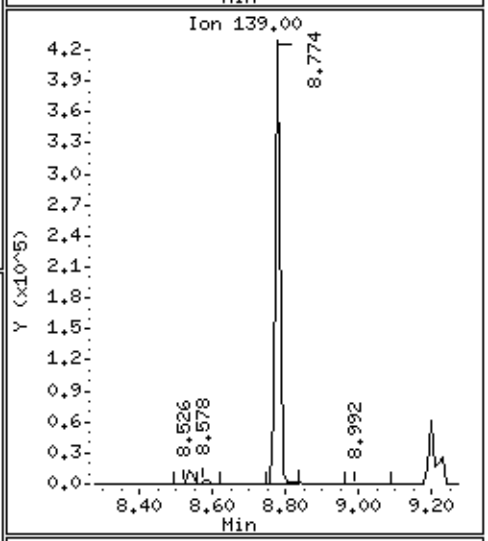


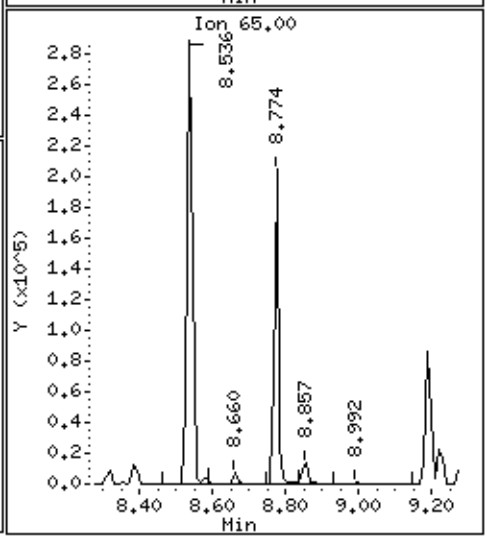












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

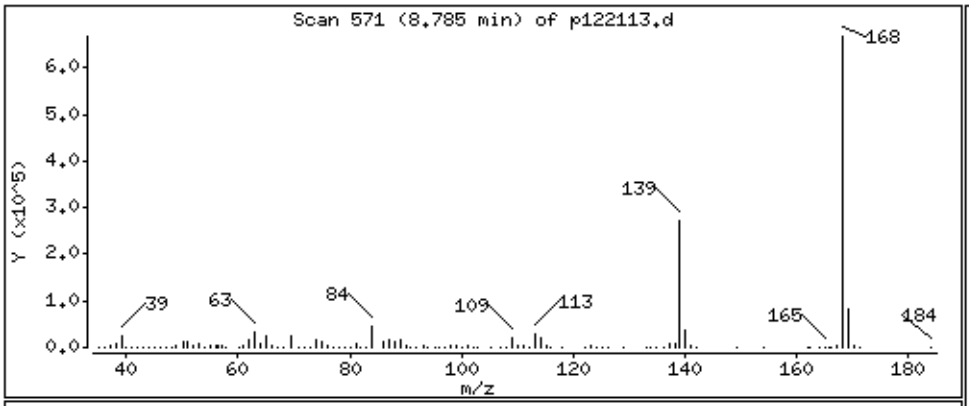
Operator: LP

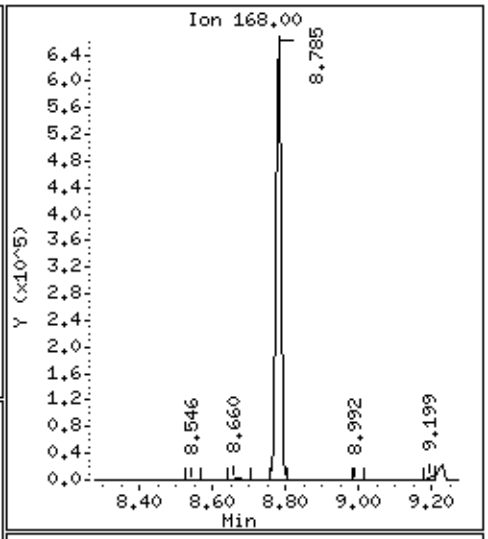
Column phase: DB-5.625

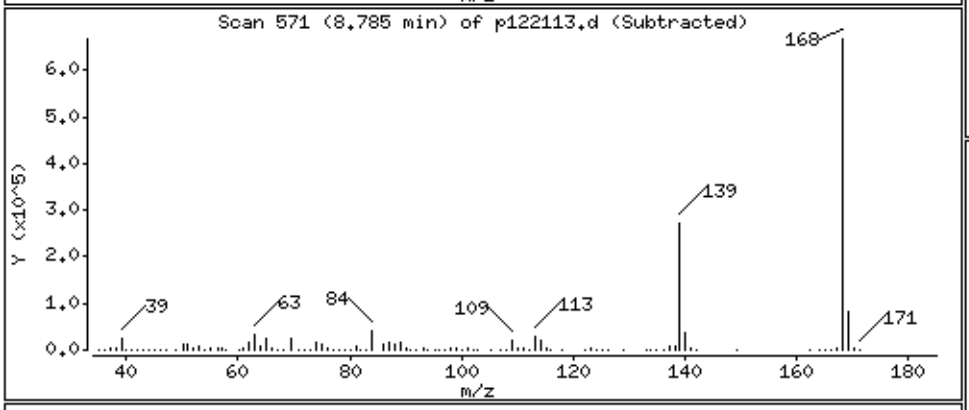
Column diameter: 0.25

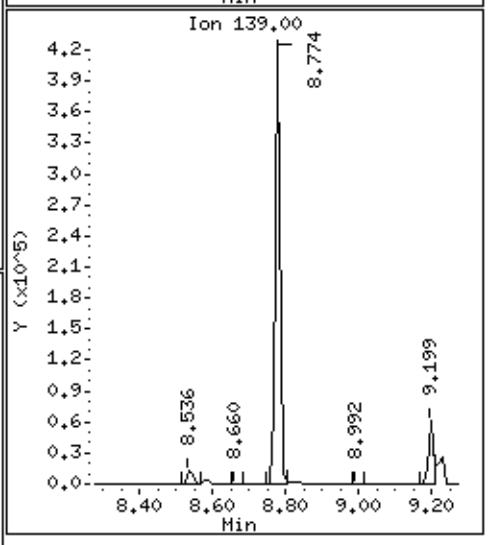
51 Dibenzofuran

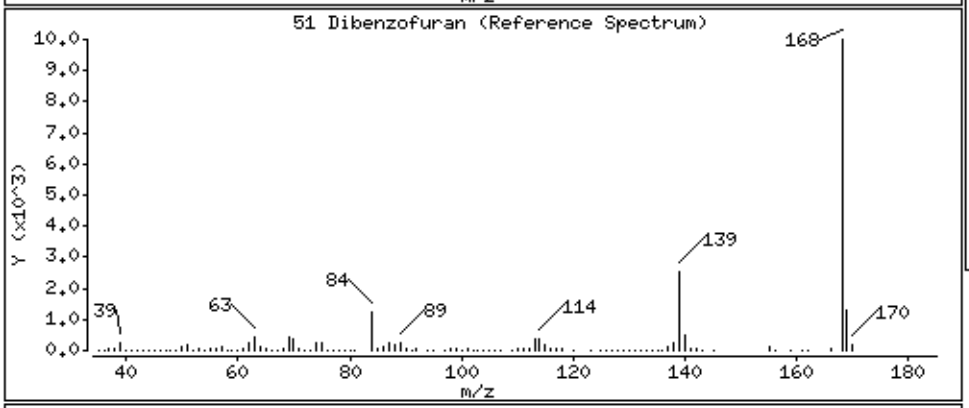
Concentration: 50.04 ug

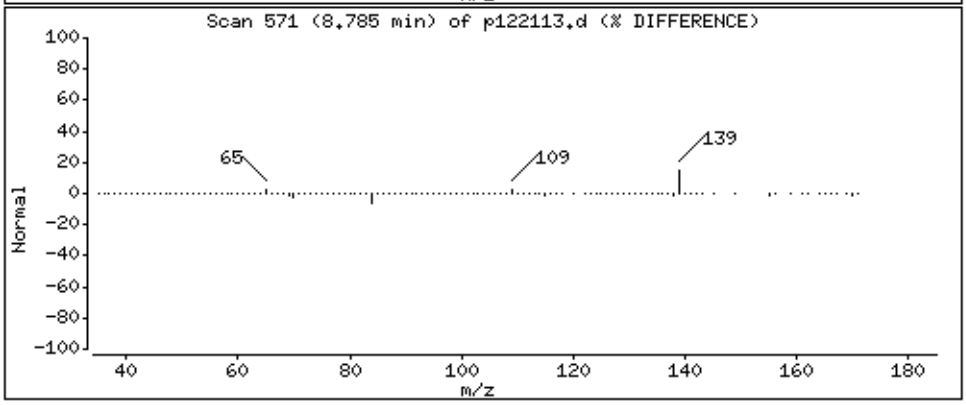












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

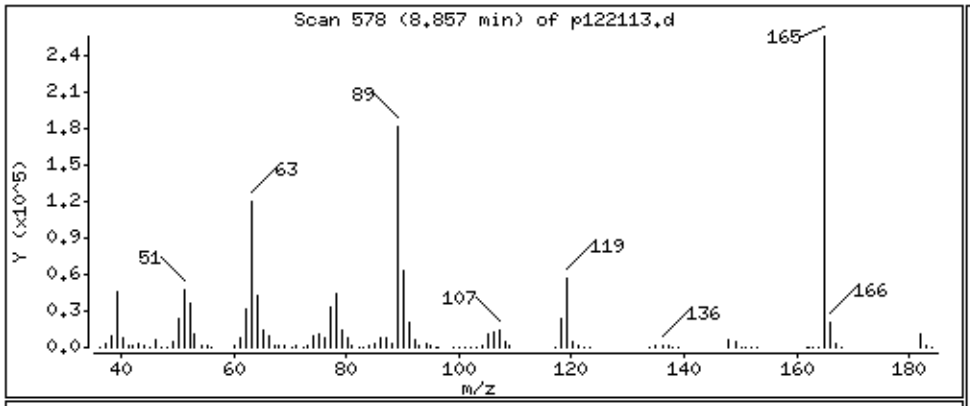
Operator: LP

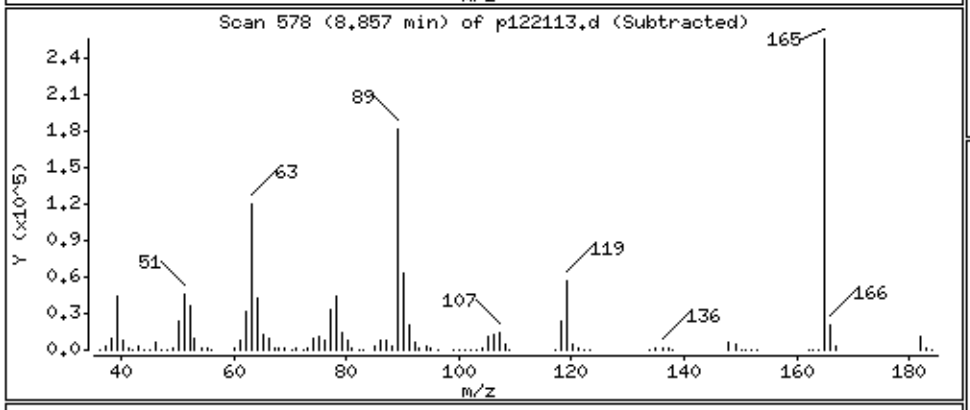
Column phase: DB-5.625

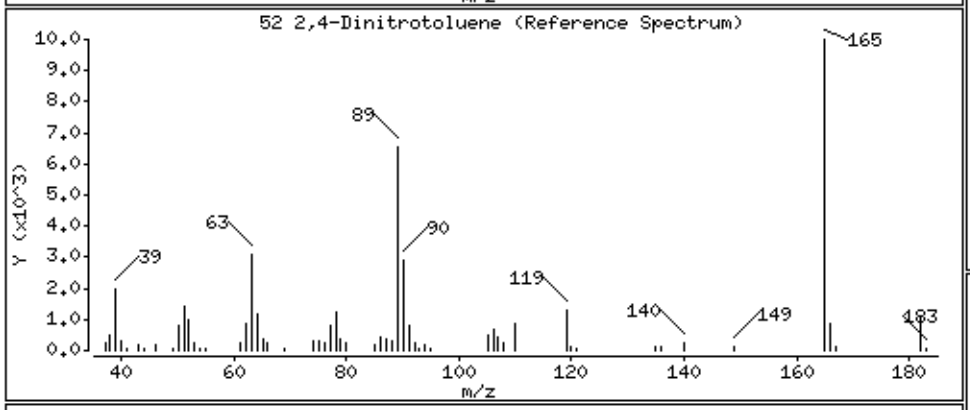
Column diameter: 0.25

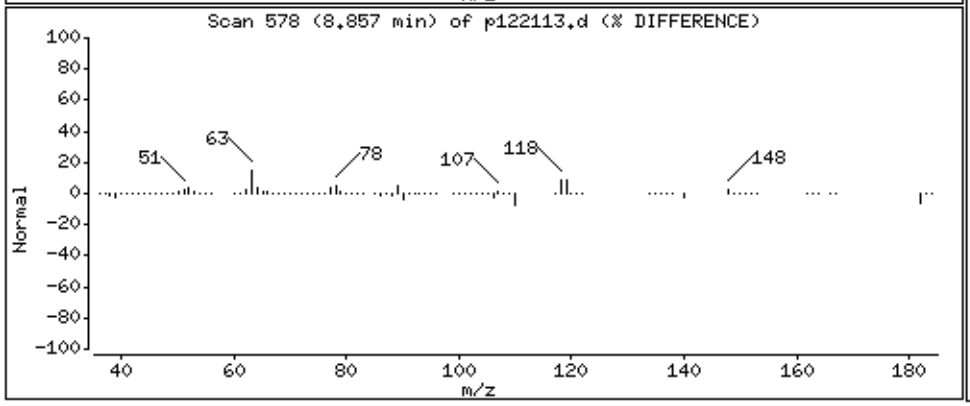
52 2,4-Dinitrotoluene

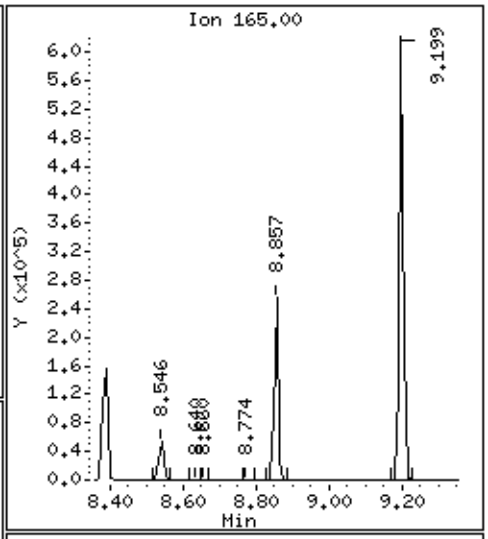
Concentration: 53.71 ug

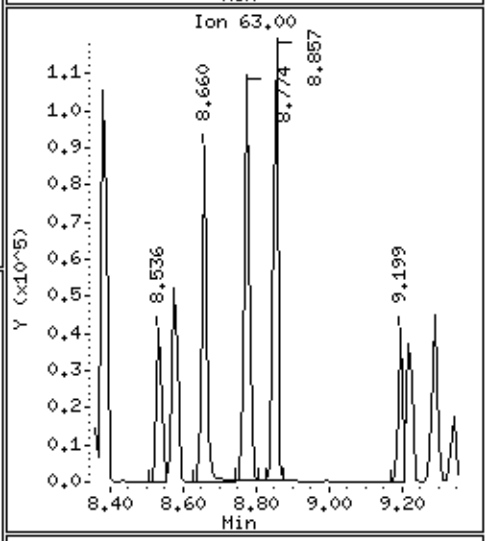


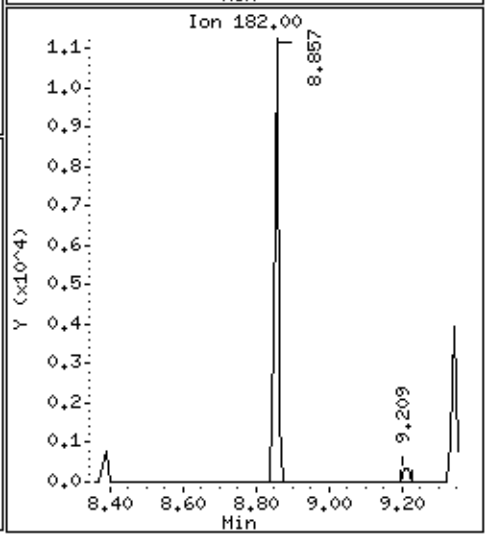












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

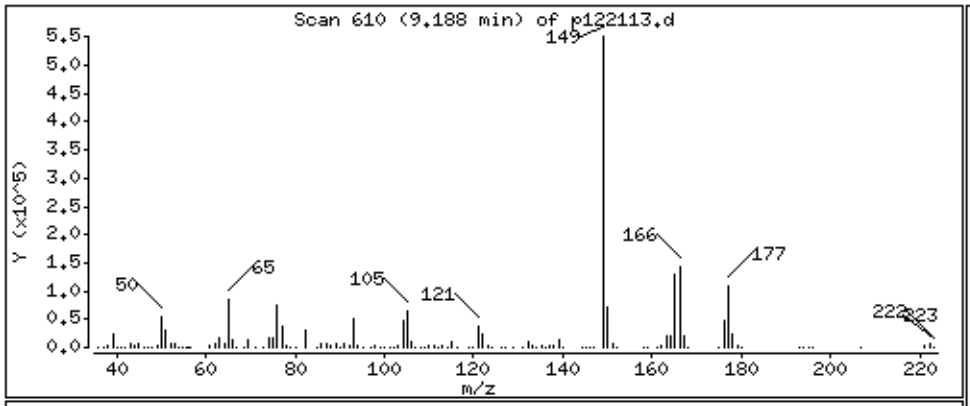
Operator: LP

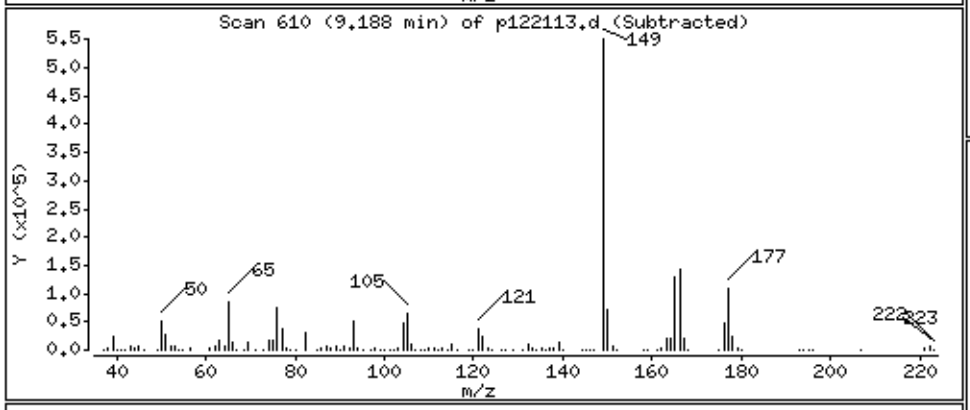
Column phase: DB-5.625

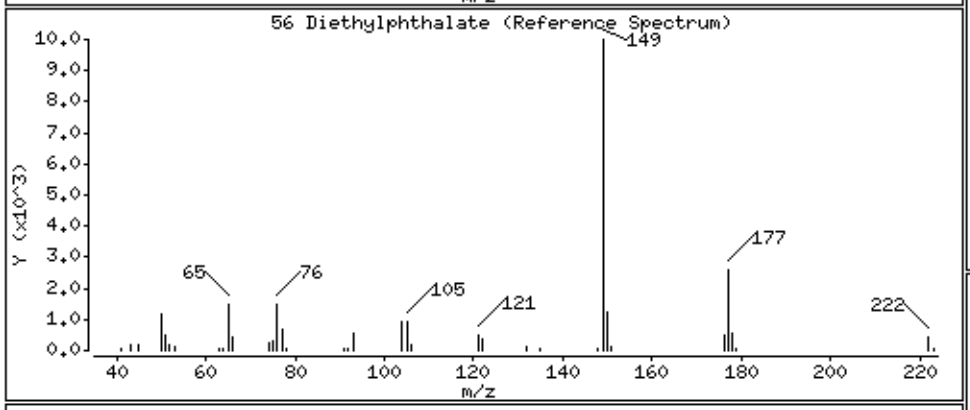
Column diameter: 0.25

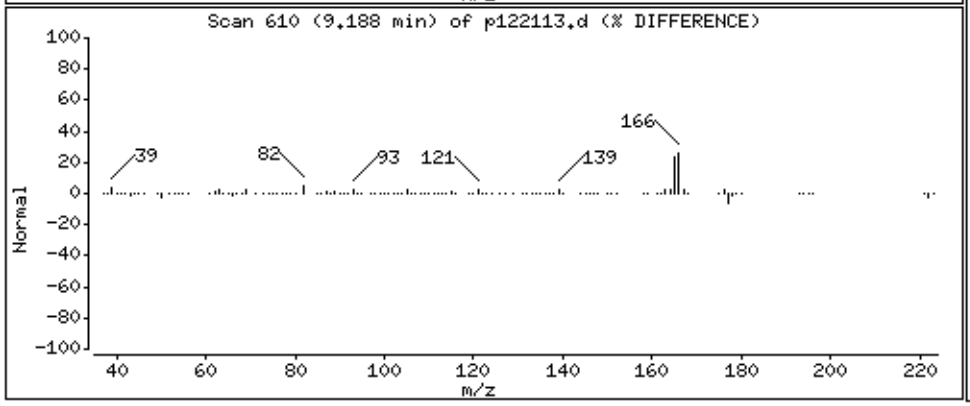
56 Diethylphthalate

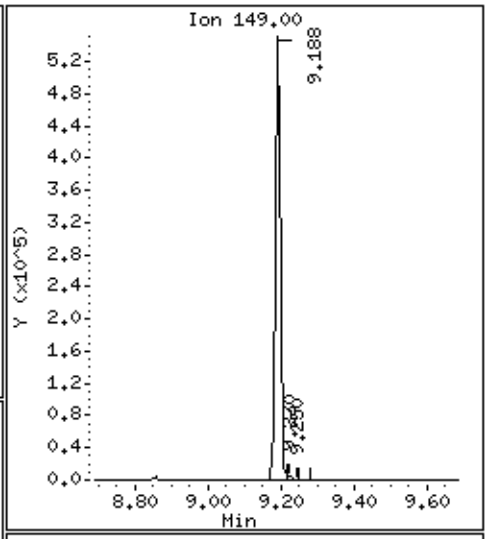
Concentration: 50.47 ug

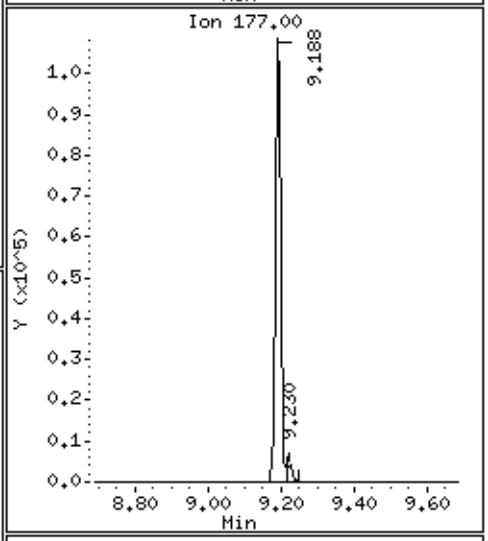


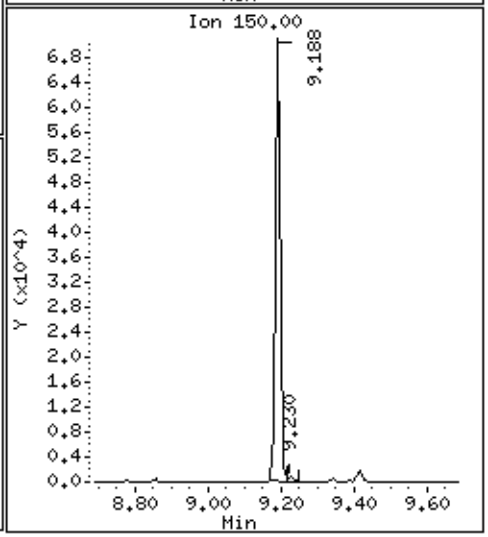












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

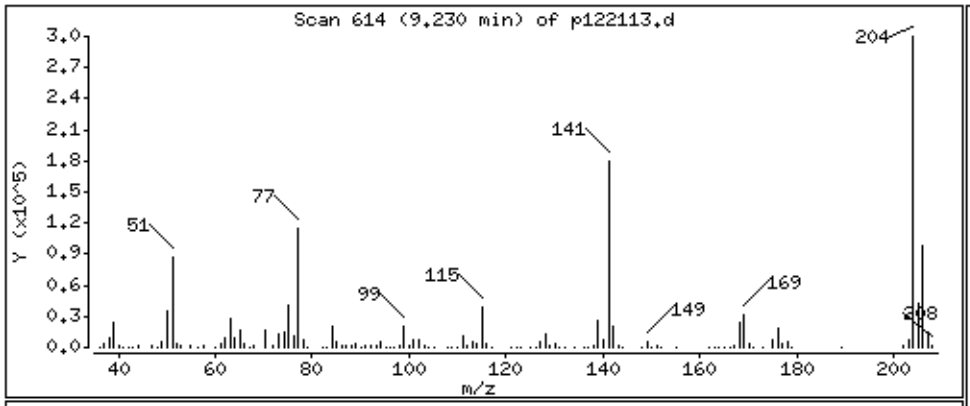
Operator: LP

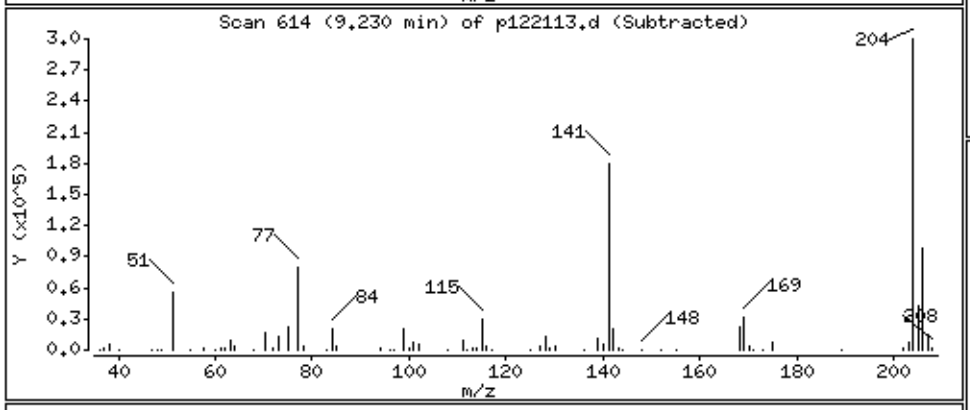
Column phase: DB-5.625

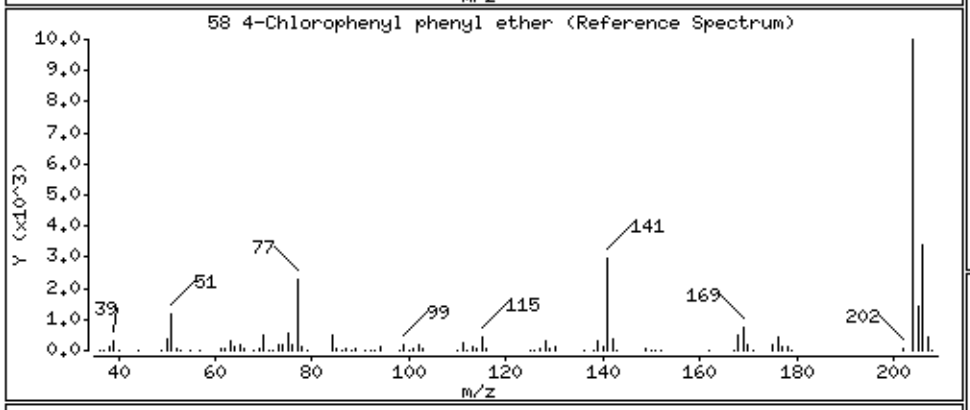
Column diameter: 0.25

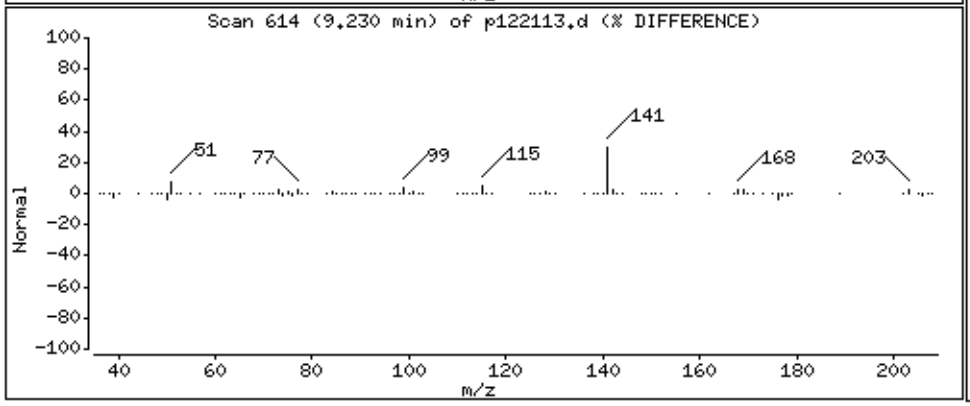
58 4-Chlorophenyl phenyl ether

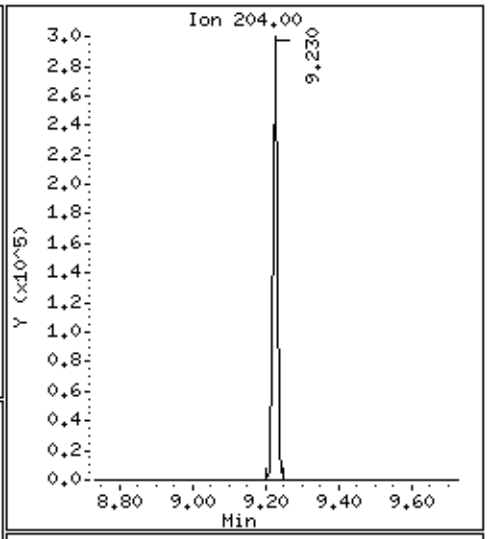
Concentration: 51.25 ug

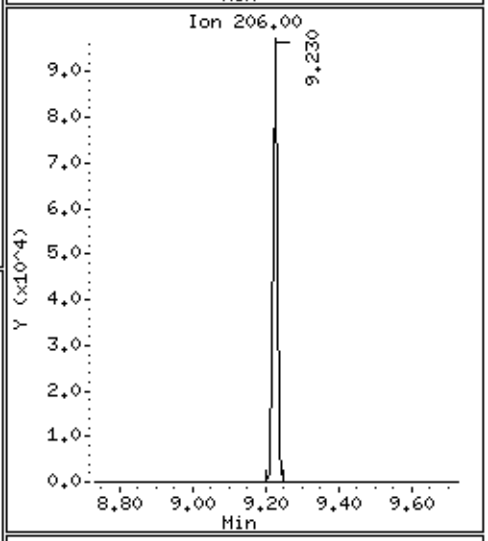


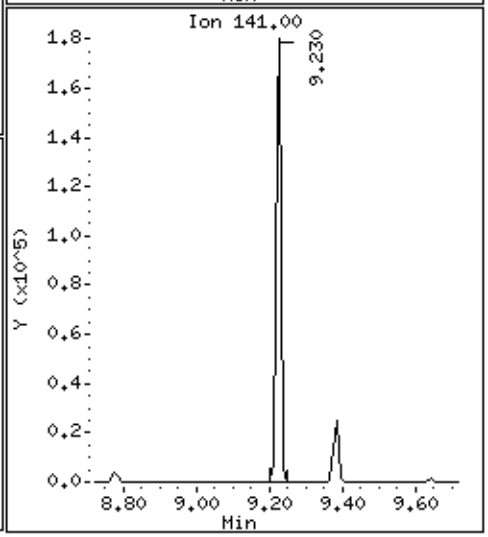












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

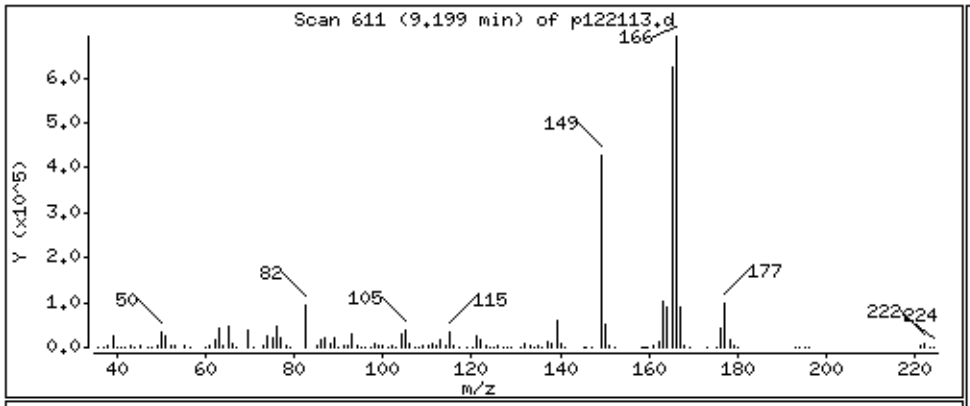
Operator: LP

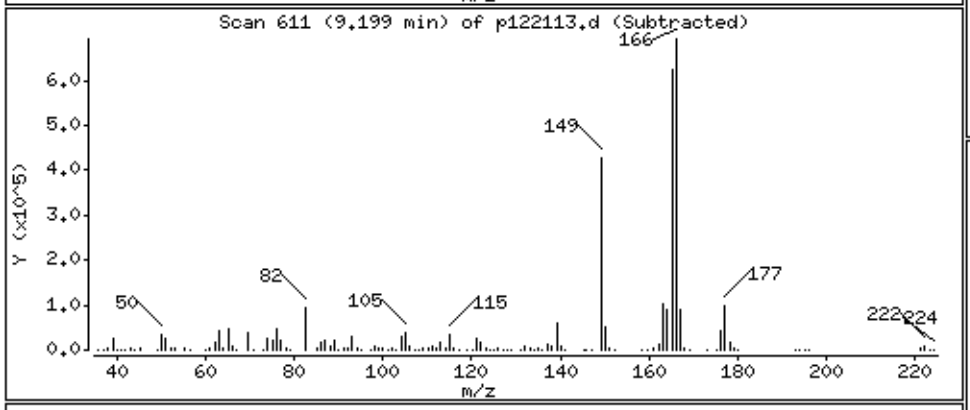
Column phase: DB-5.625

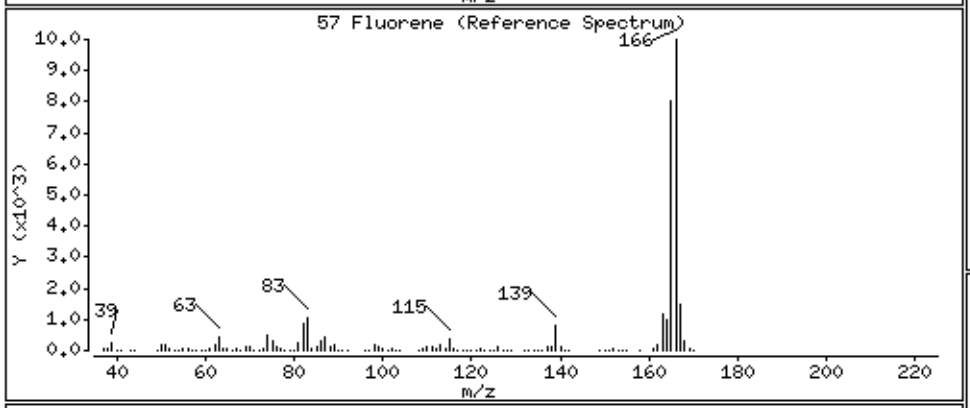
Column diameter: 0.25

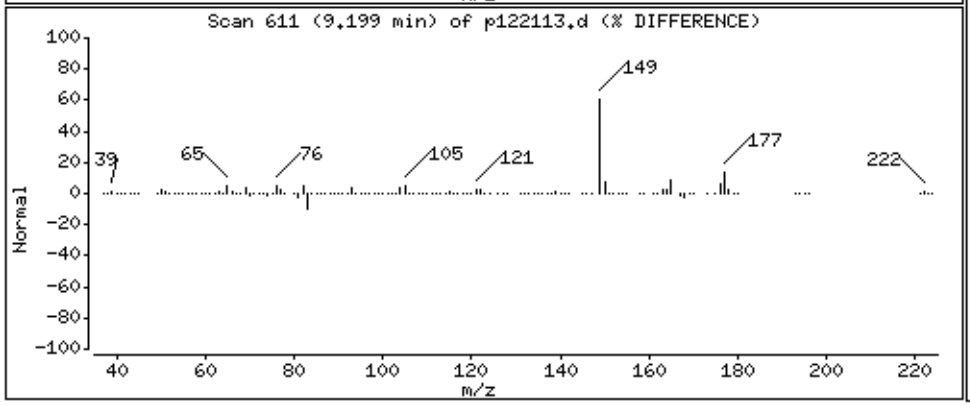
57 Fluorene

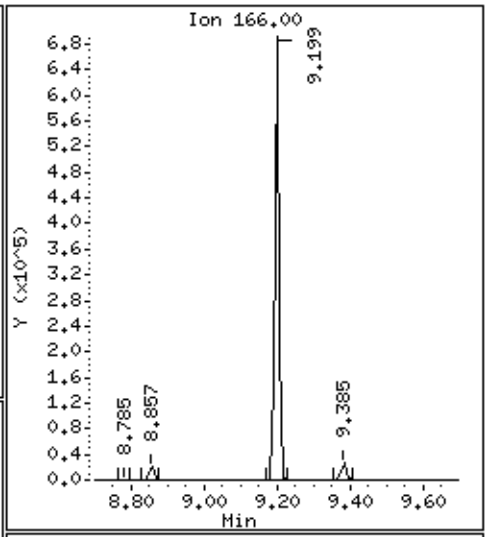
Concentration: 48.80 ug

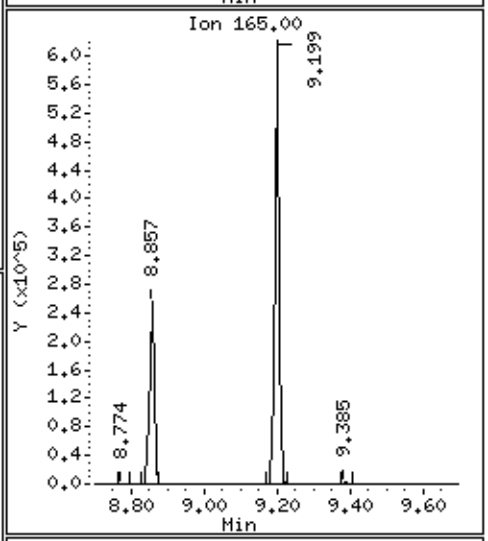


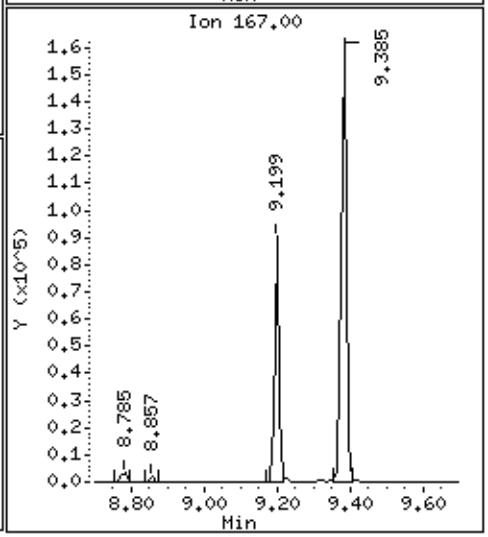












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

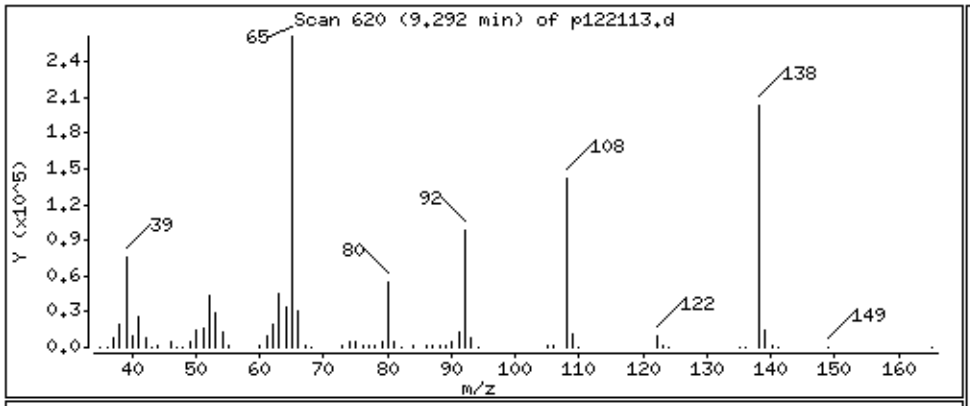
Operator: LP

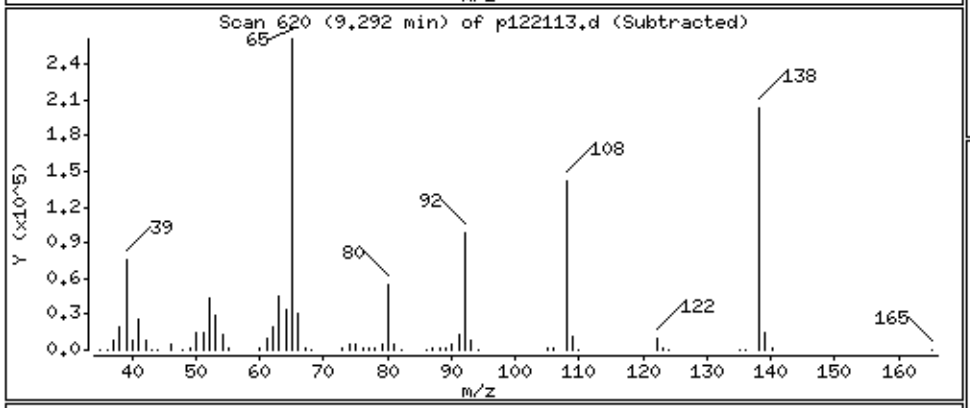
Column phase: DB-5.625

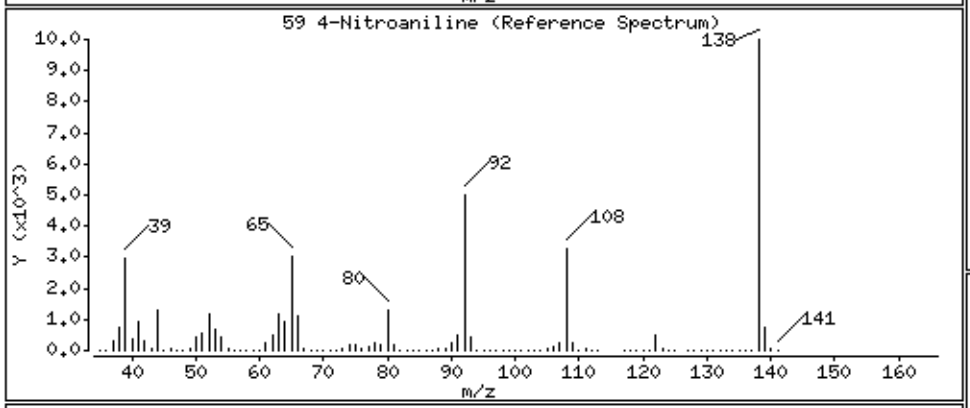
Column diameter: 0.25

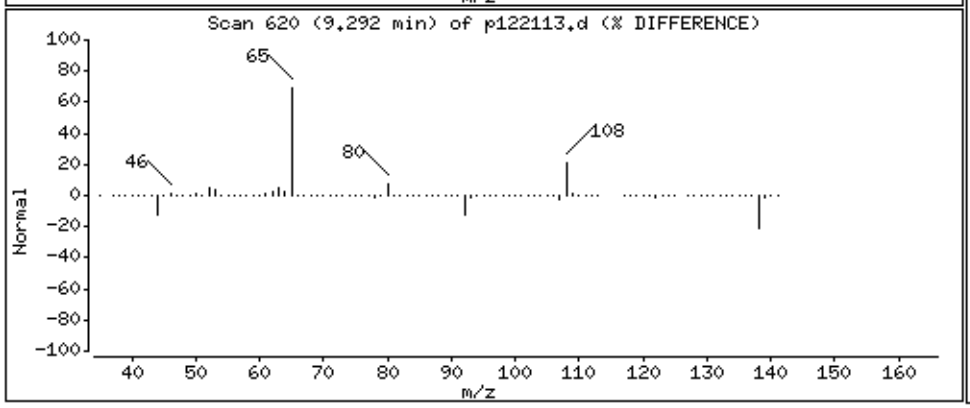
59 4-Nitroaniline

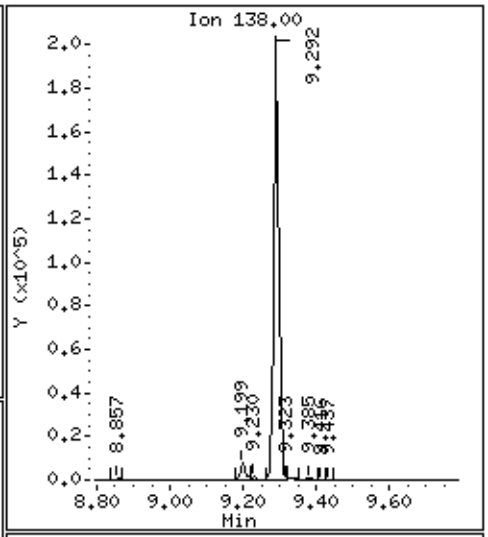
Concentration: 52.61 ug

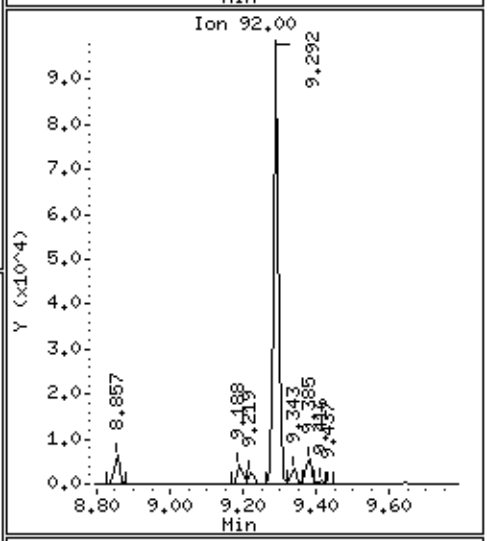


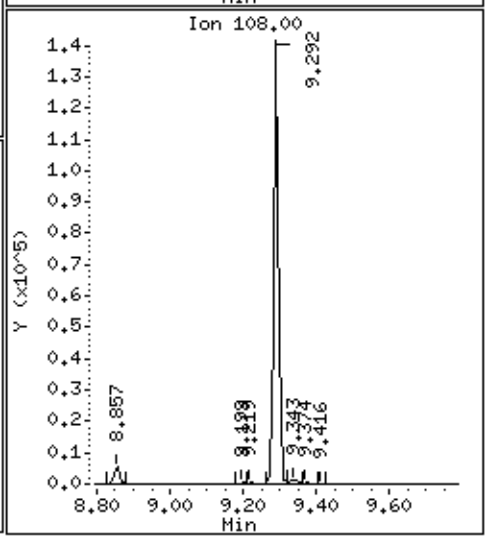












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

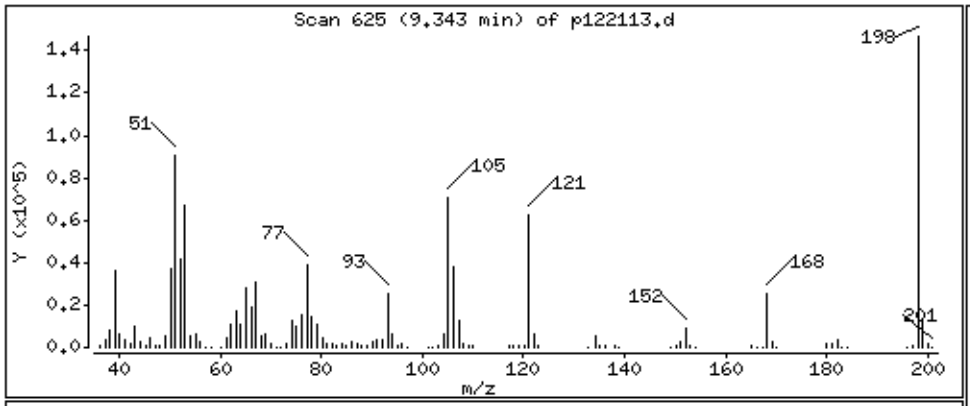
Operator: LP

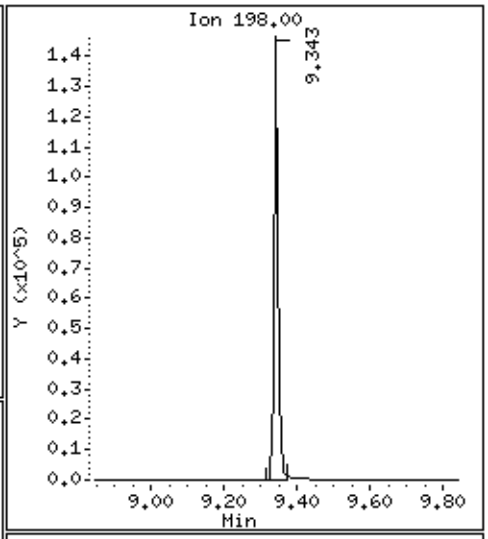
Column phase: DB-5.625

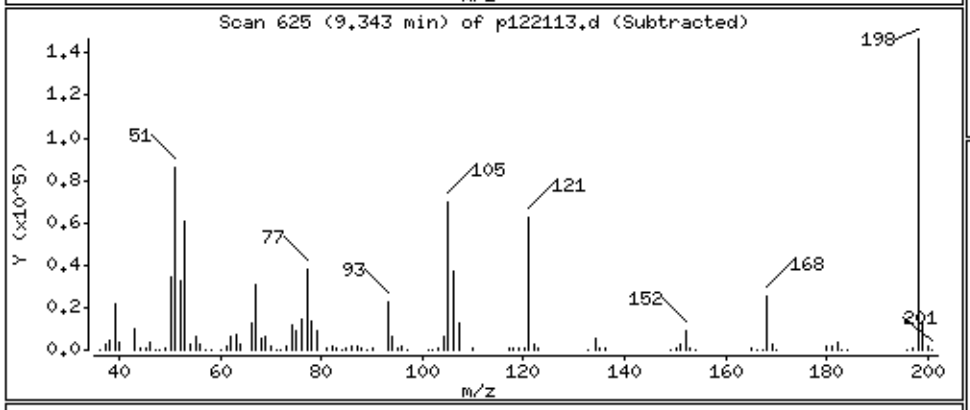
Column diameter: 0.25

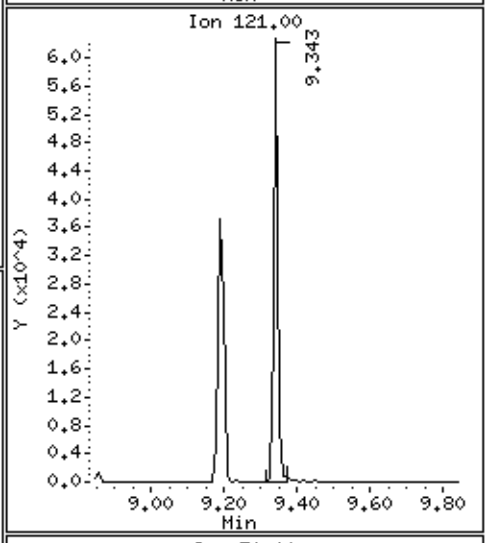
60 4,6-Dinitro-2-methylphenol

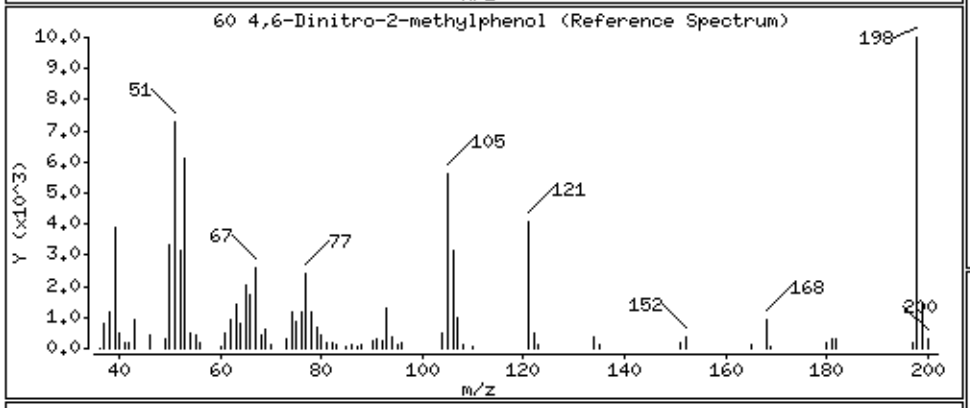
Concentration: 55.31 ug

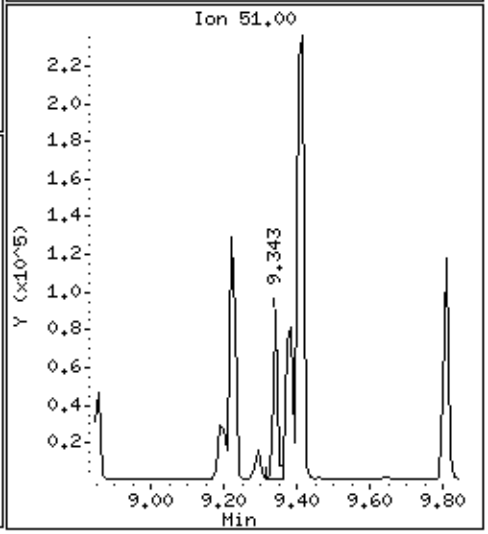


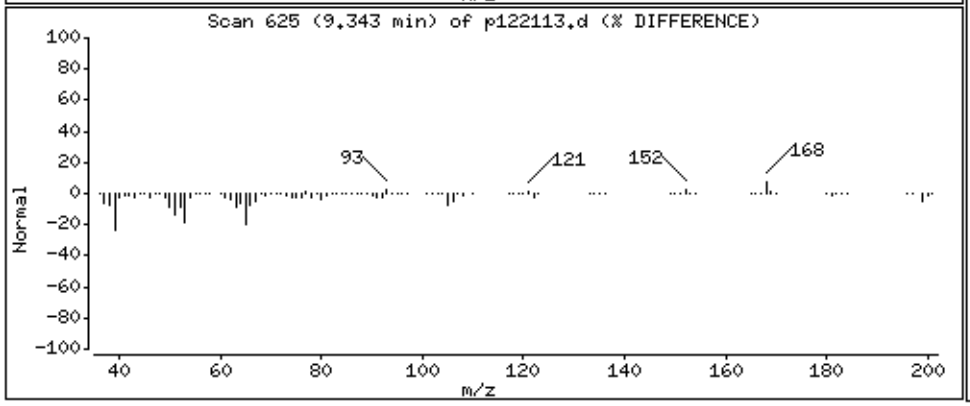












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

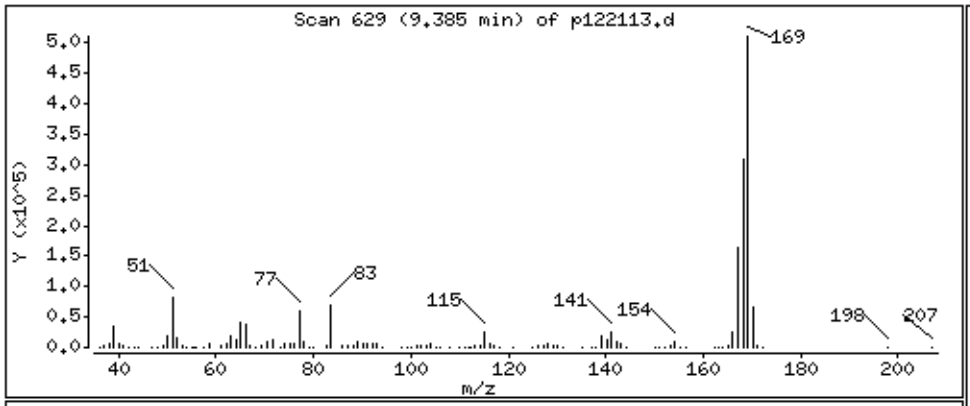
Operator: LP

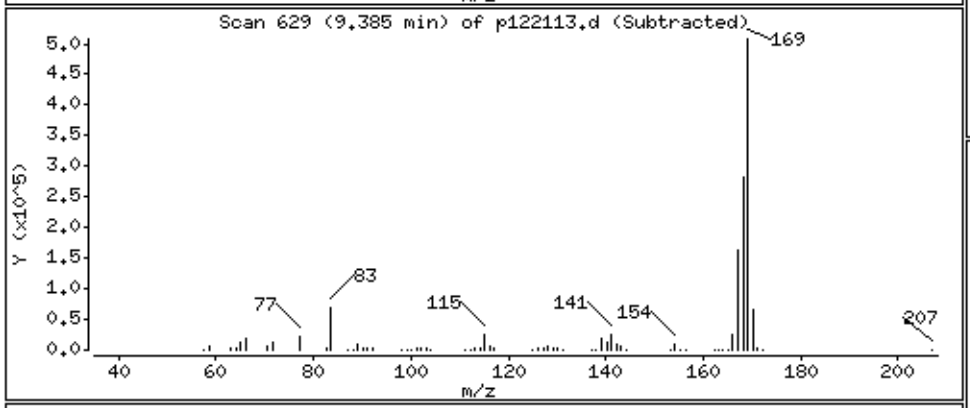
Column phase: DB-5.625

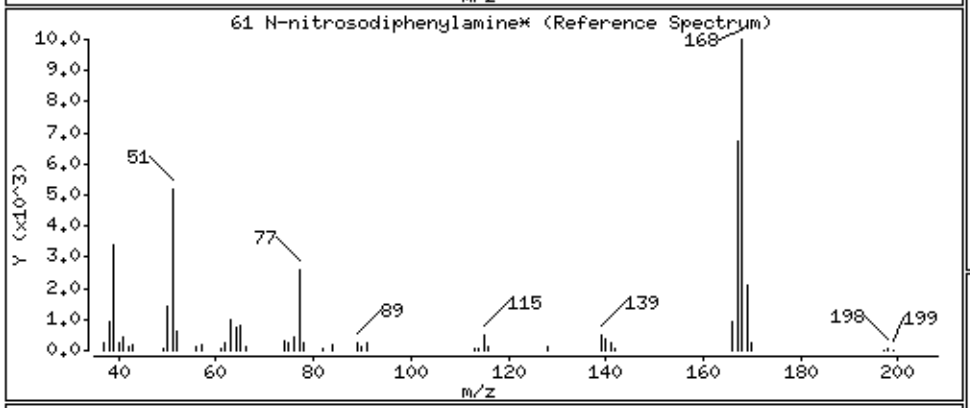
Column diameter: 0.25

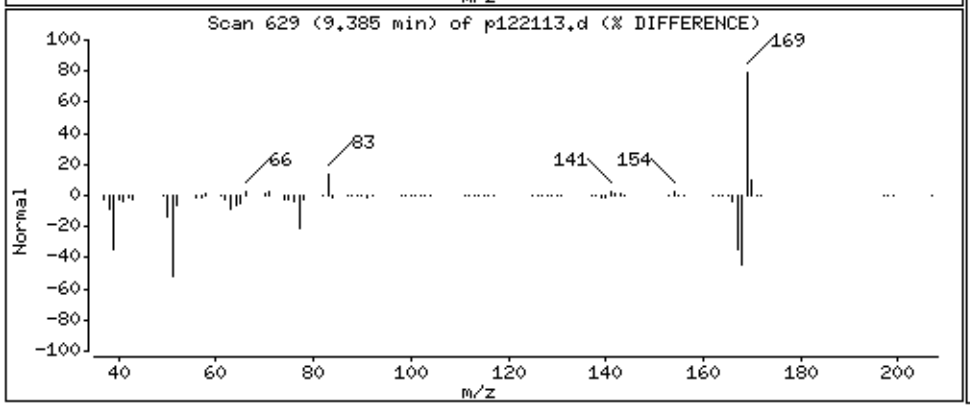
61 N-nitrosodiphenylamine*

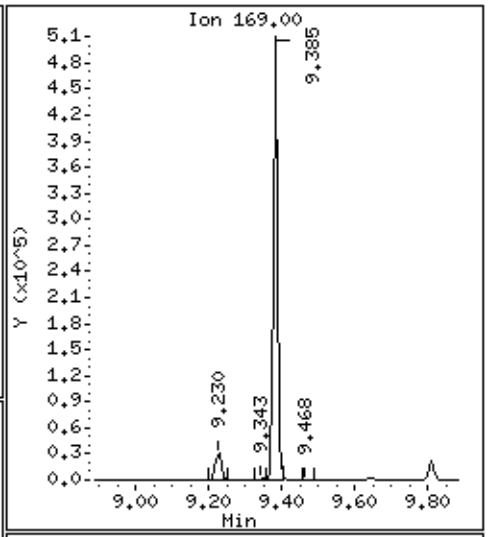
Concentration: 43.28 ug

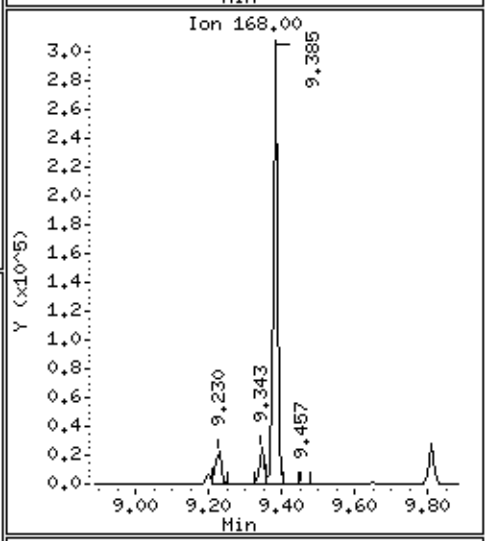


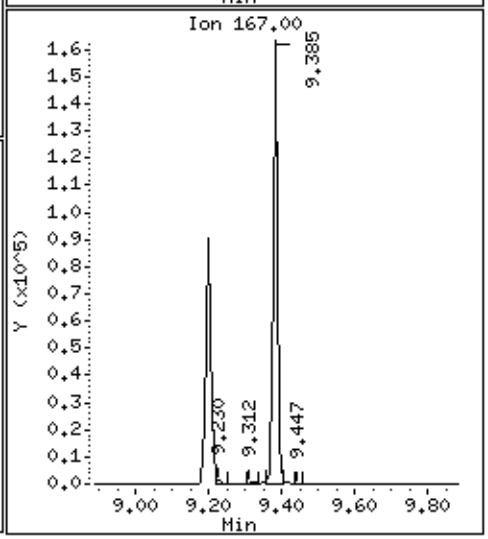












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

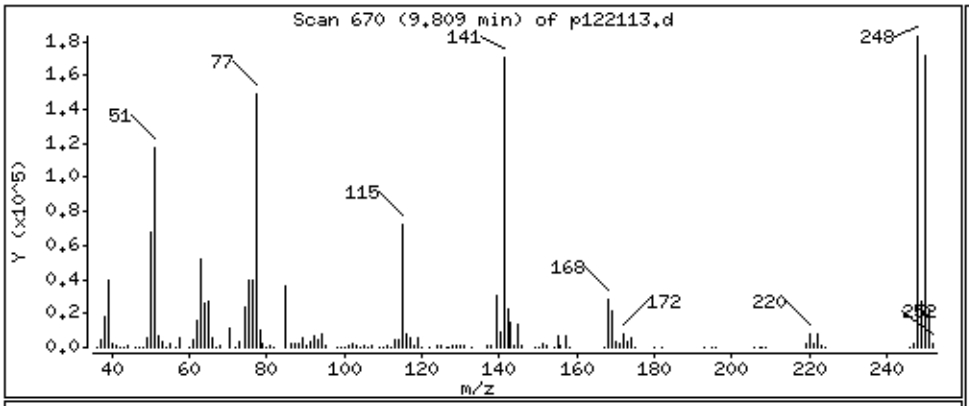
Operator: LP

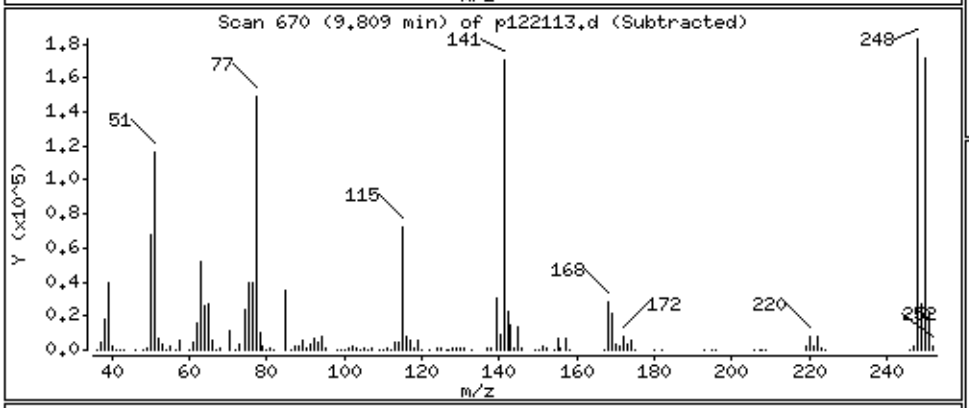
Column phase: DB-5.625

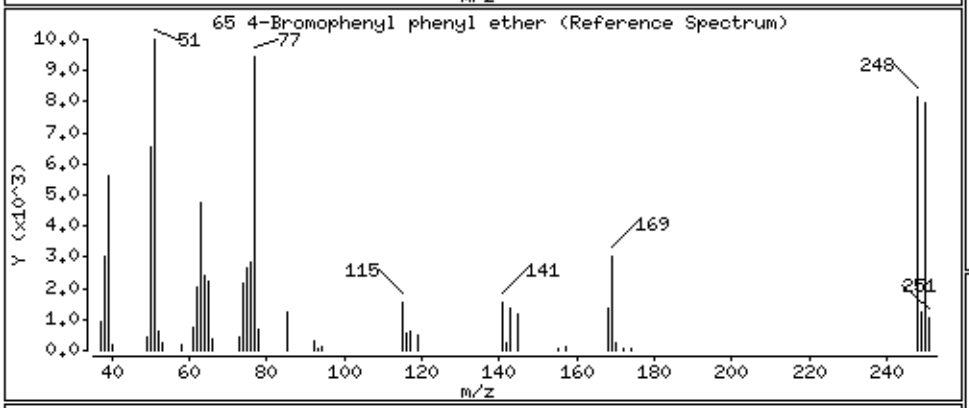
Column diameter: 0.25

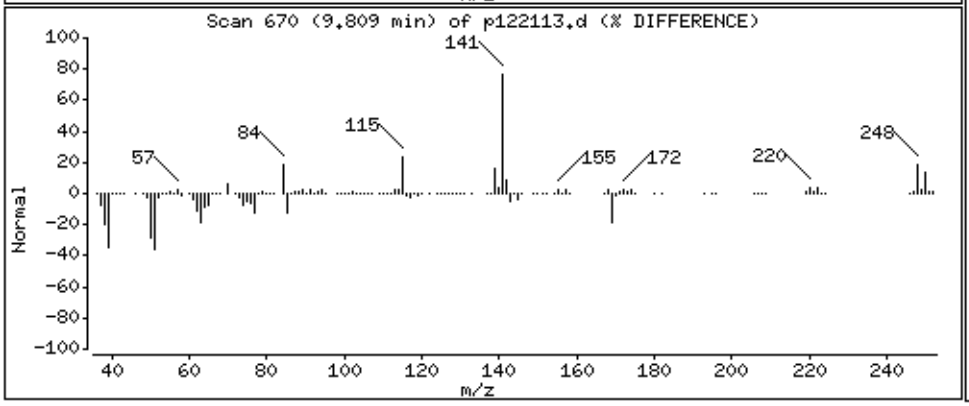
65 4-Bromophenyl phenyl ether

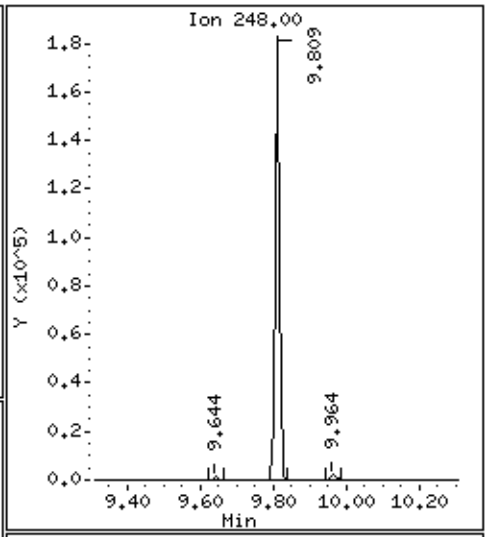
Concentration: 51.29 ug

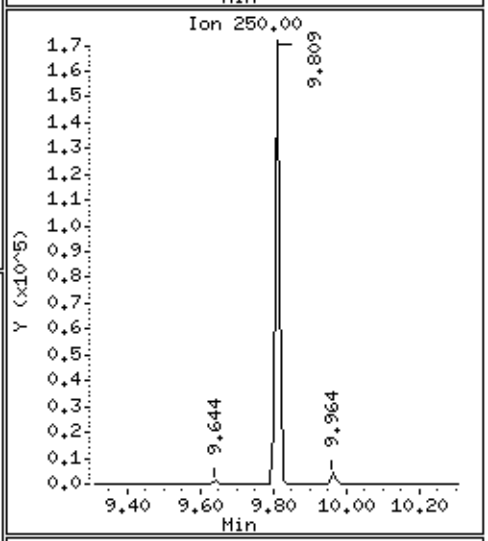


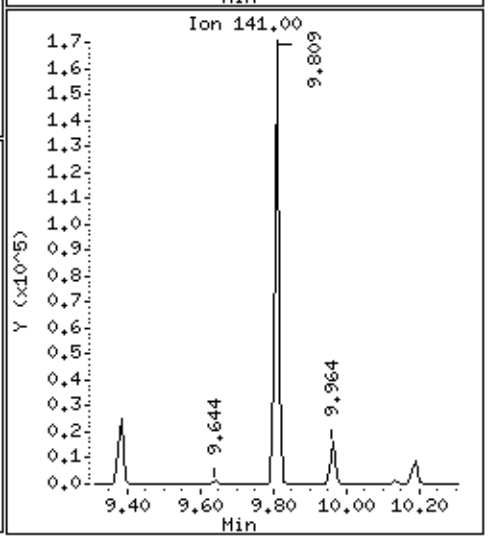












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

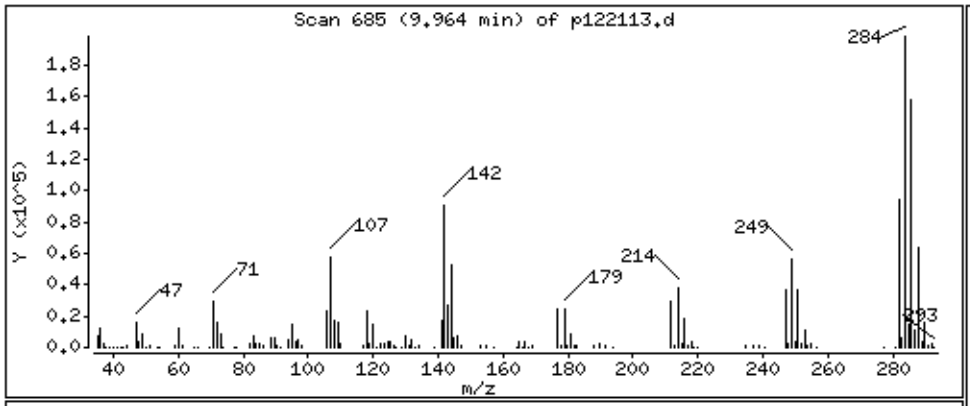
Operator: LP

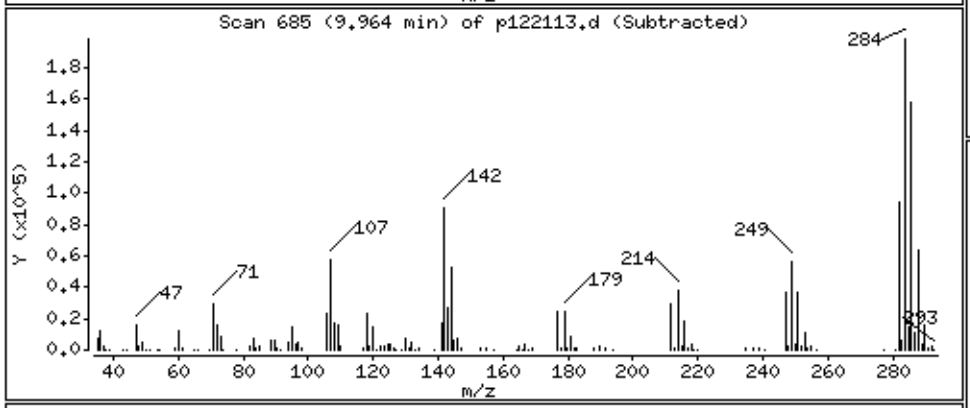
Column phase: DB-5.625

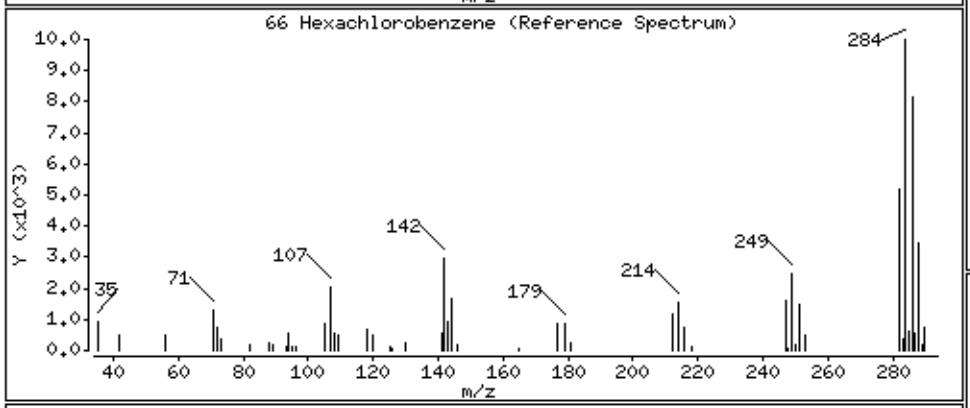
Column diameter: 0.25

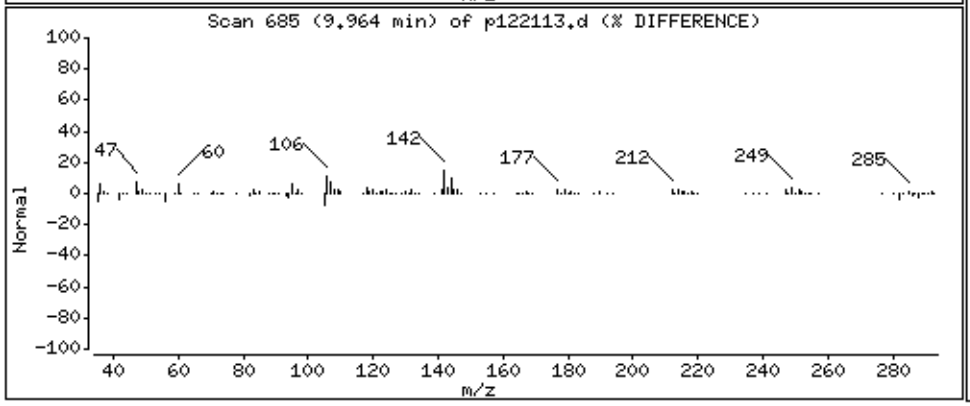
66 Hexachlorobenzene

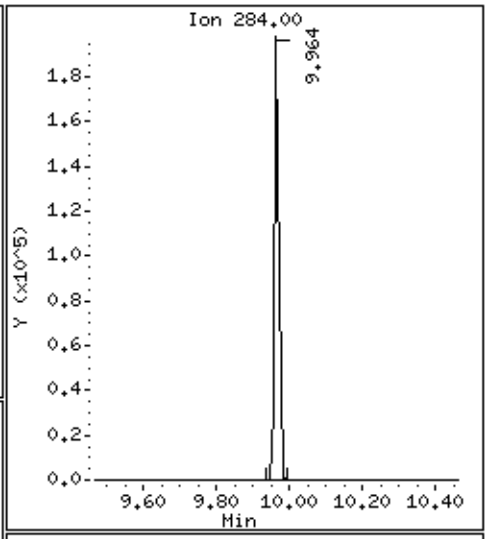
Concentration: 49.85 ug

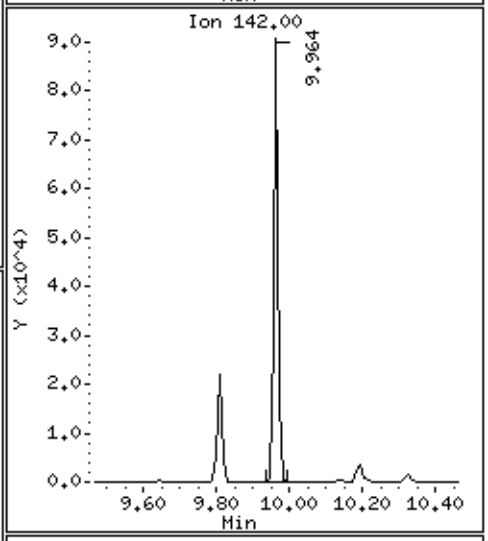


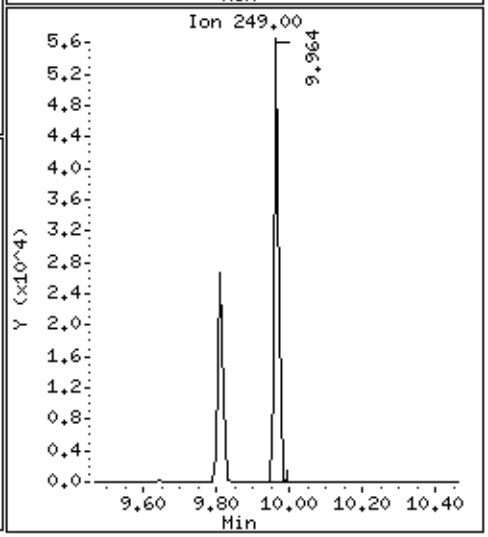












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

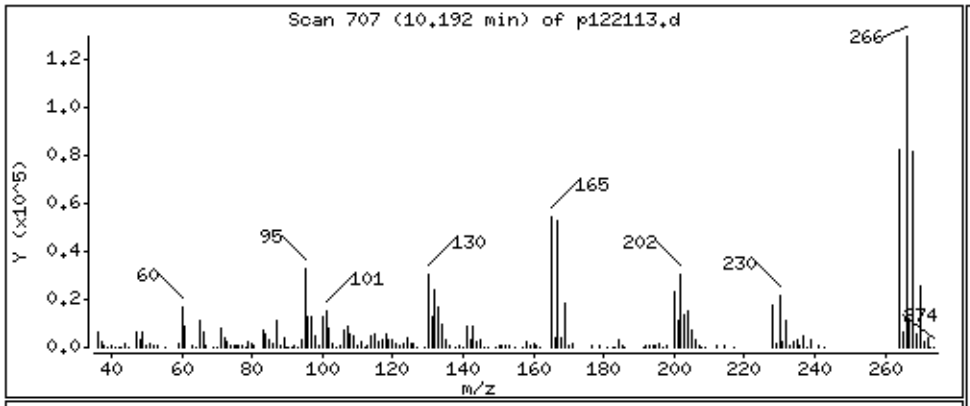
Operator: LP

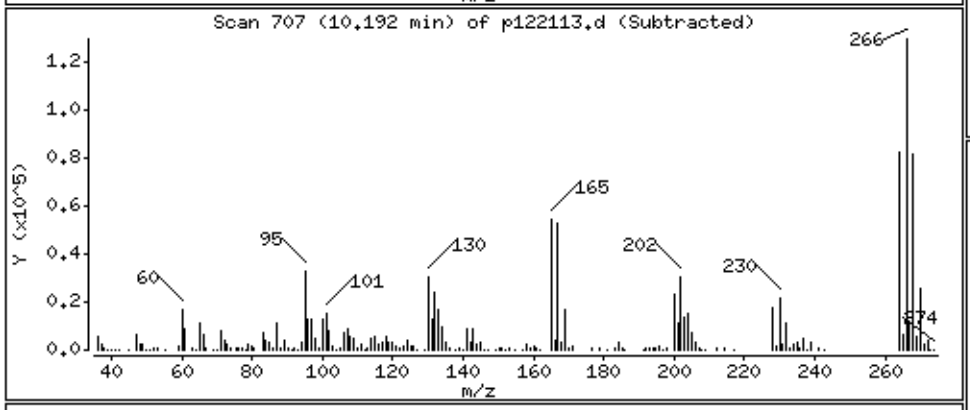
Column phase: DB-5.625

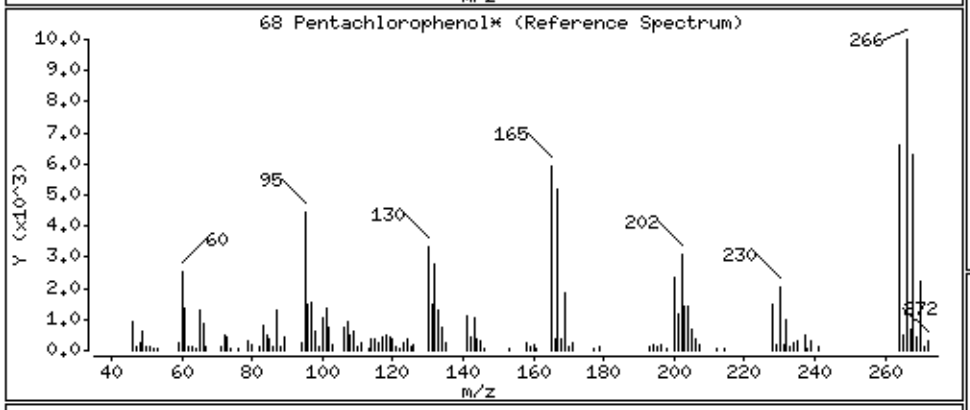
Column diameter: 0.25

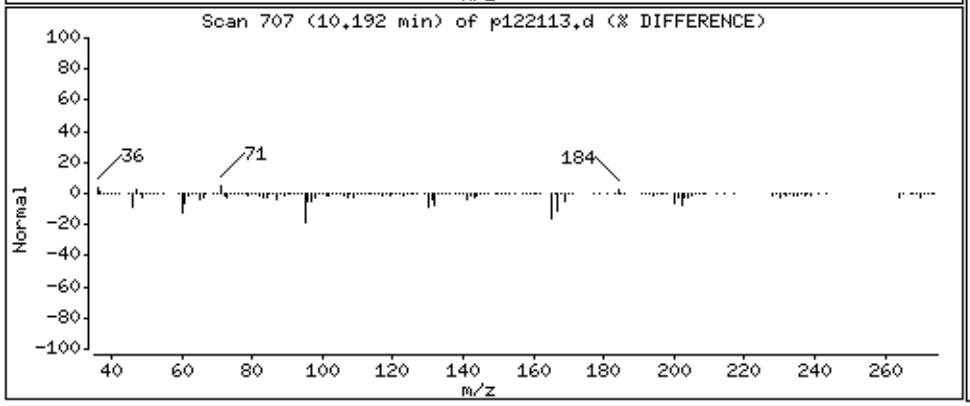
68 Pentachlorophenol*

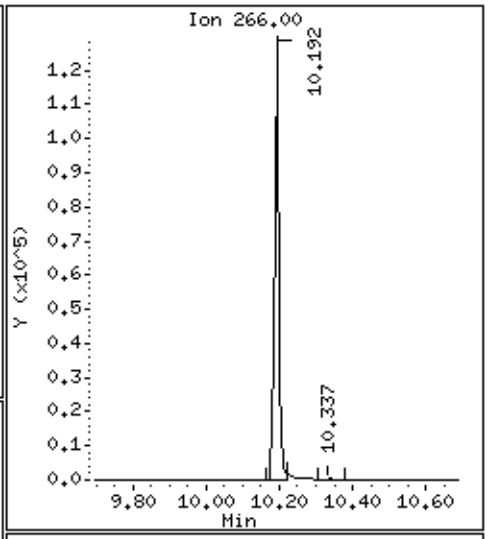
Concentration: 53.45 ug

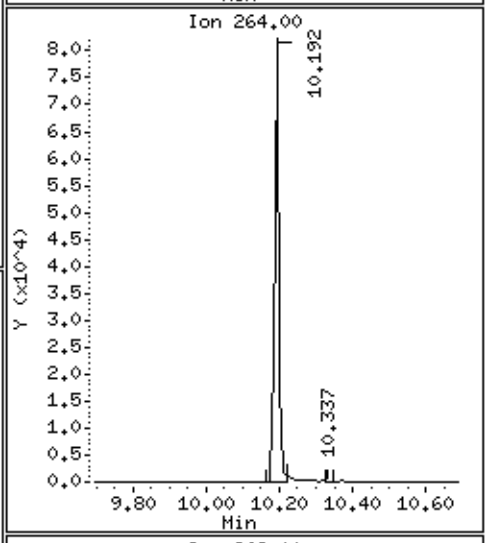


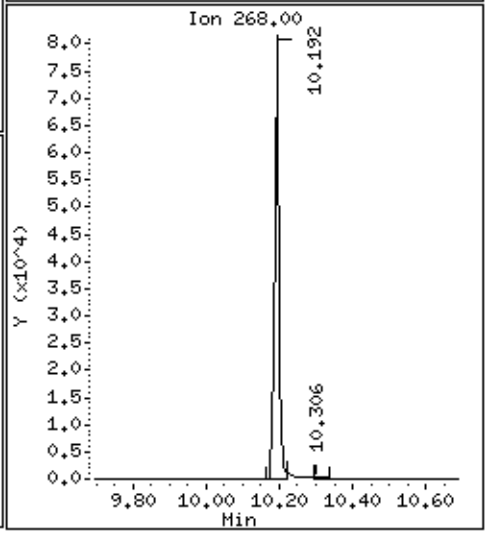












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

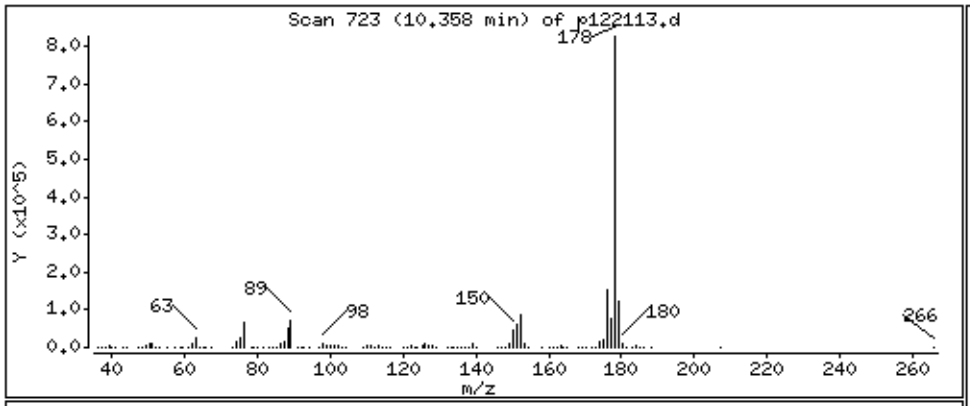
Operator: LP

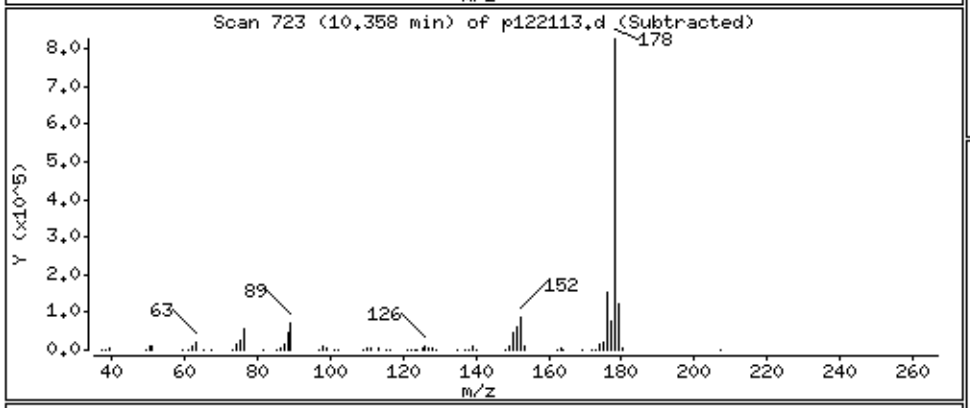
Column phase: DB-5.625

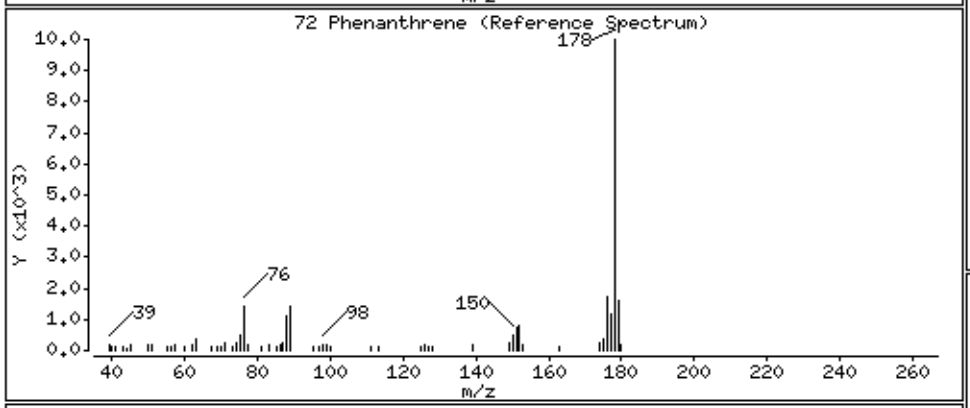
Column diameter: 0.25

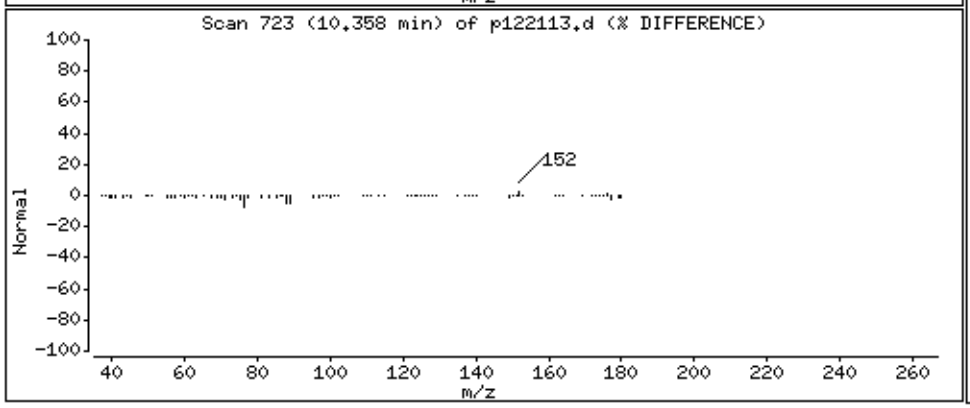
72 Phenanthrene

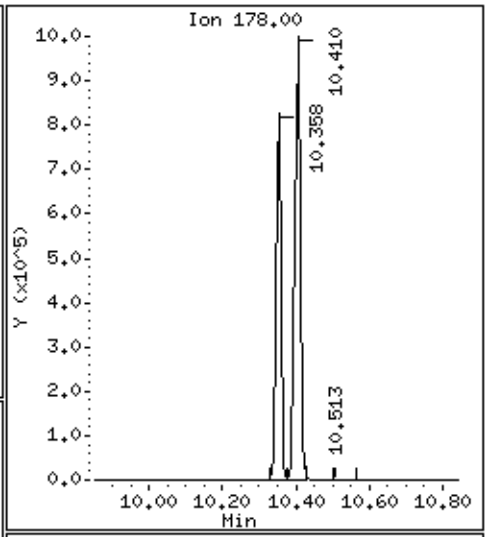
Concentration: 50.93 ug

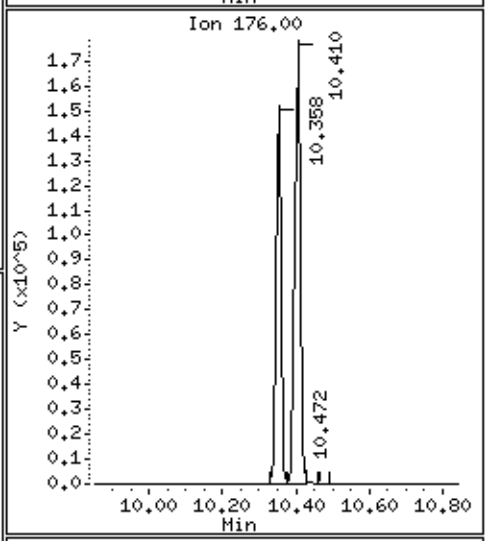


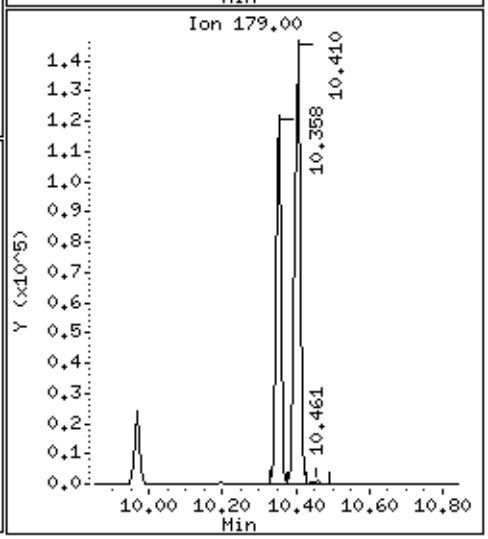












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

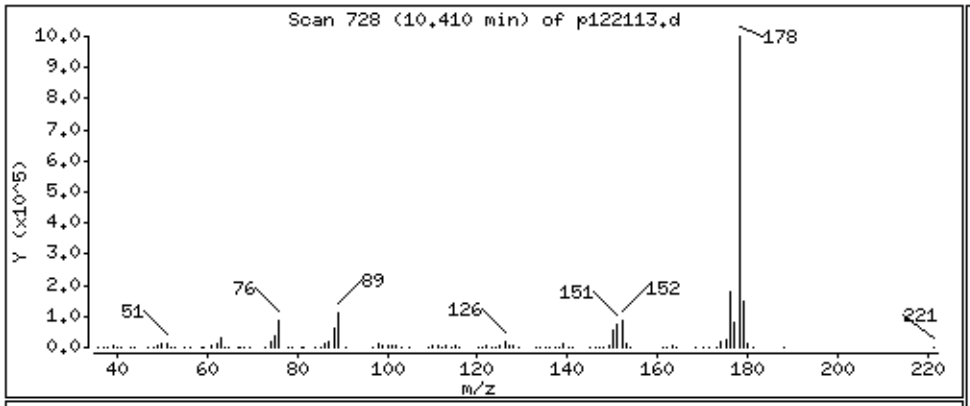
Operator: LP

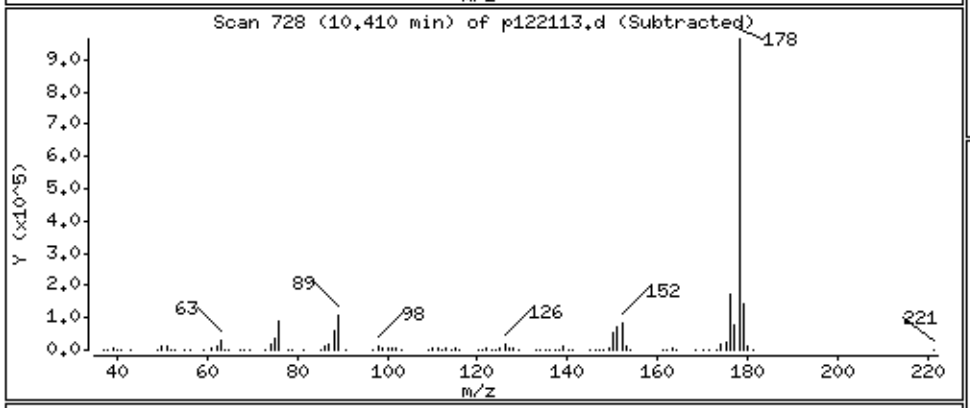
Column phase: DB-5.625

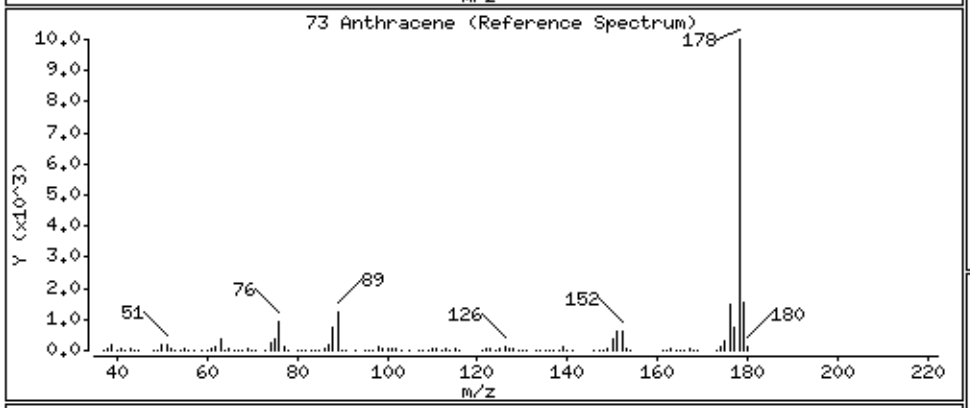
Column diameter: 0.25

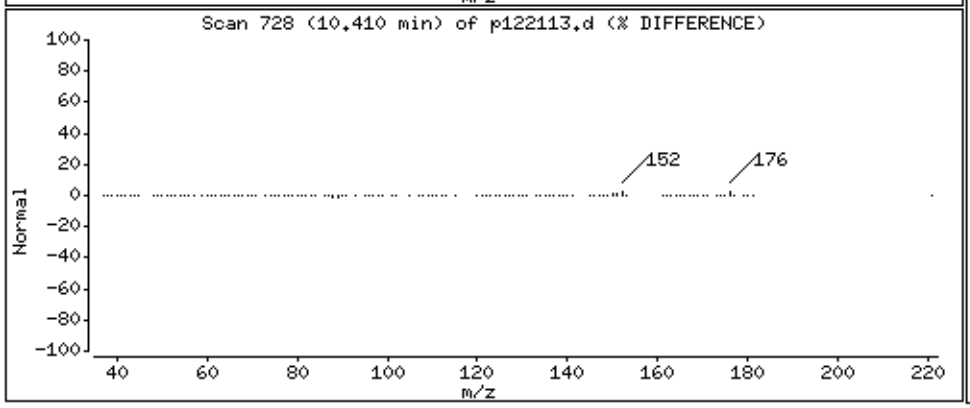
73 Anthracene

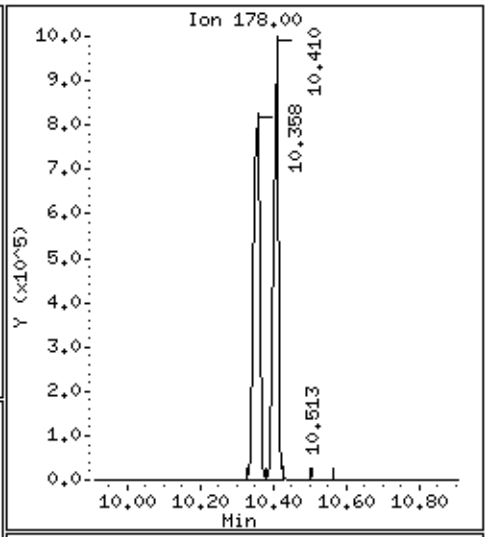
Concentration: 54.97 ug

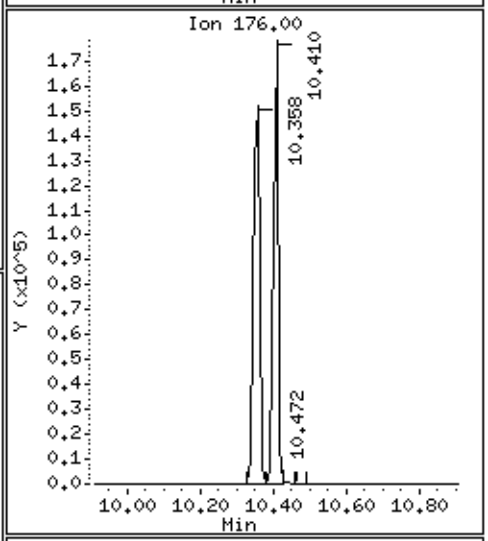


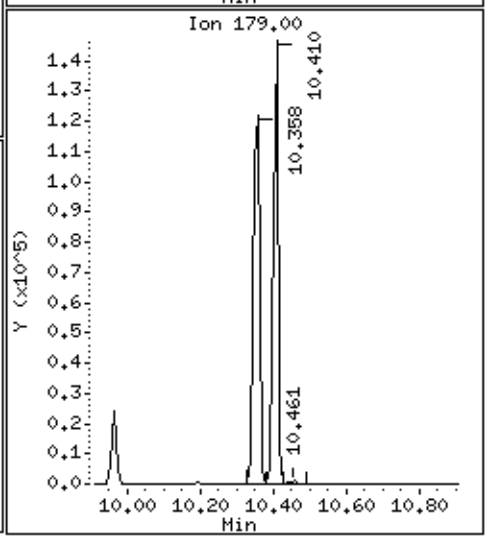












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

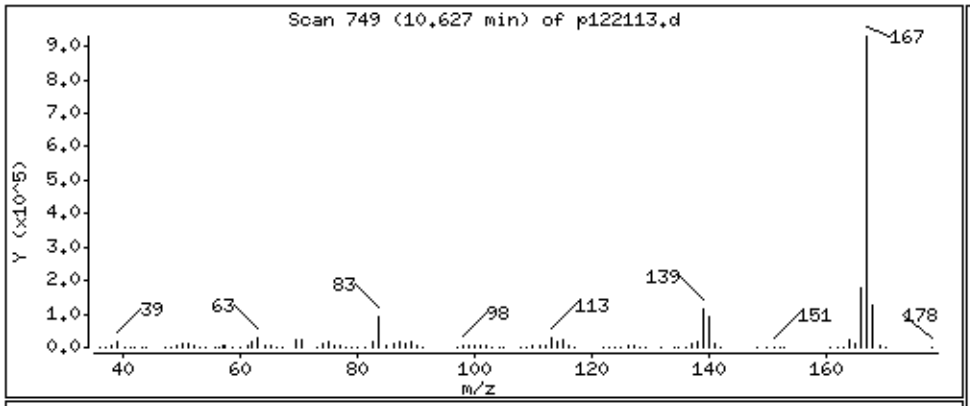
Operator: LP

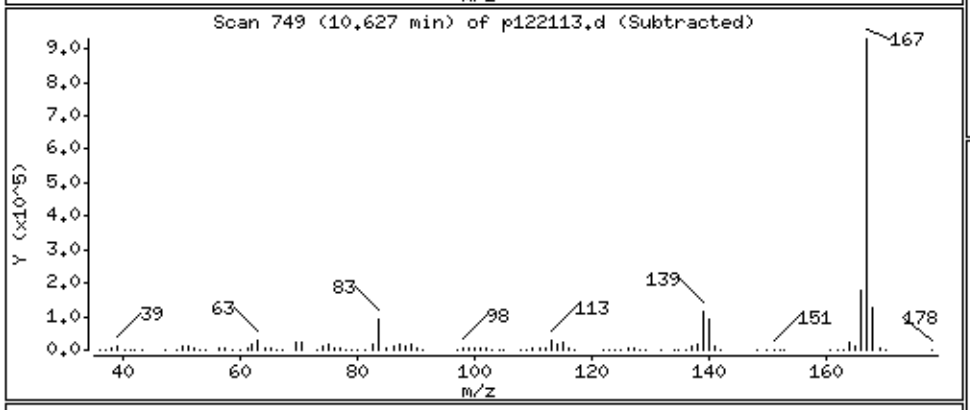
Column phase: DB-5.625

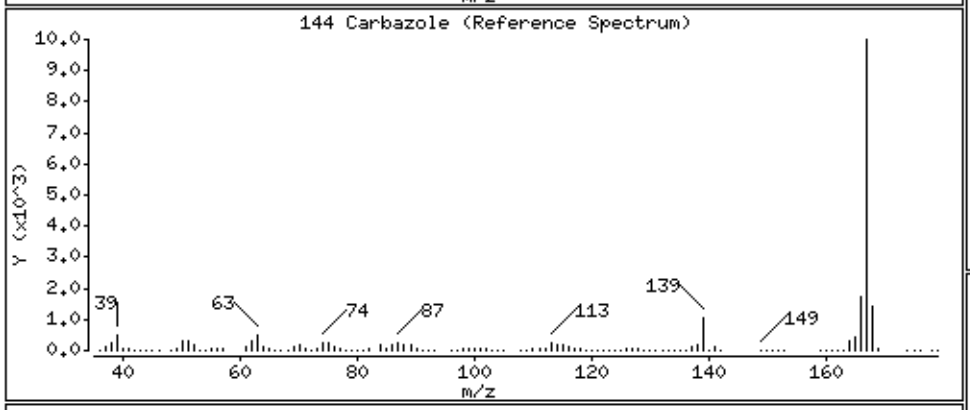
Column diameter: 0.25

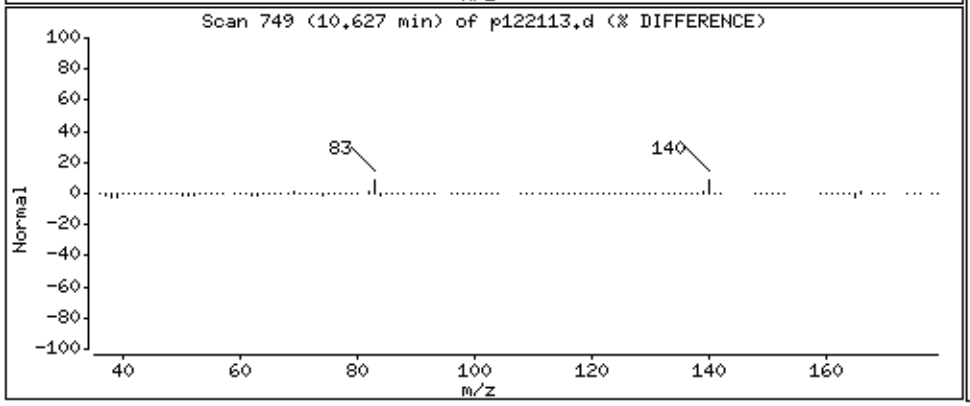
144 Carbazole

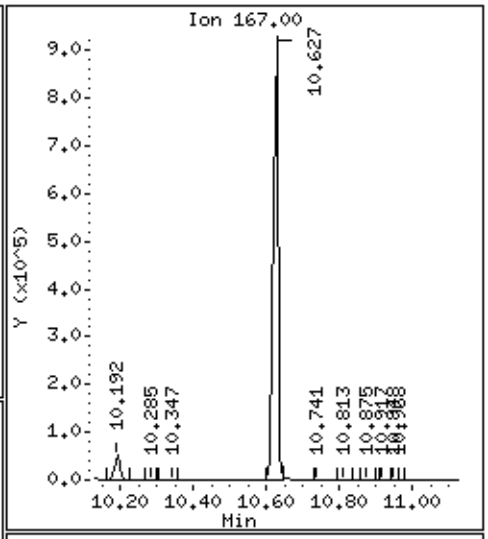
Concentration: 53.20 ug

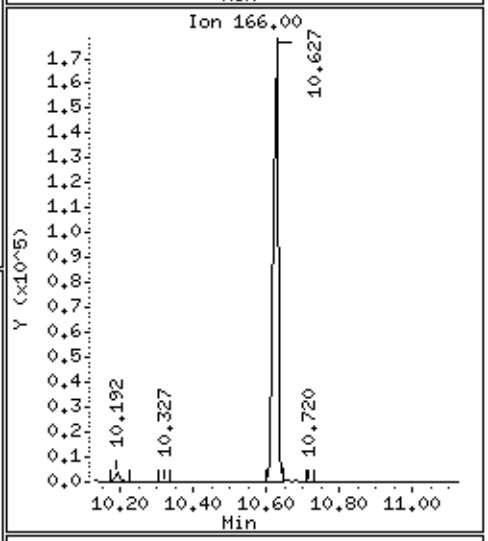


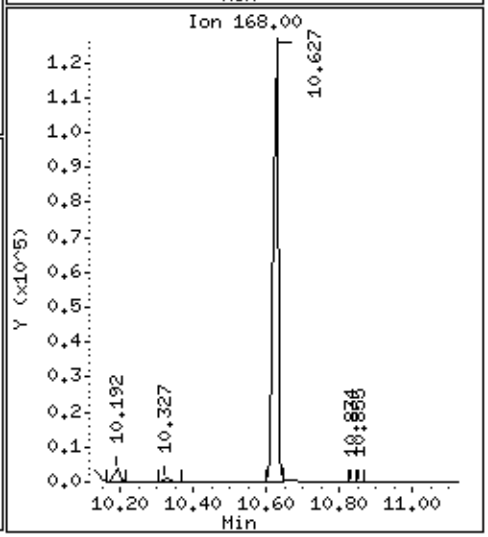












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

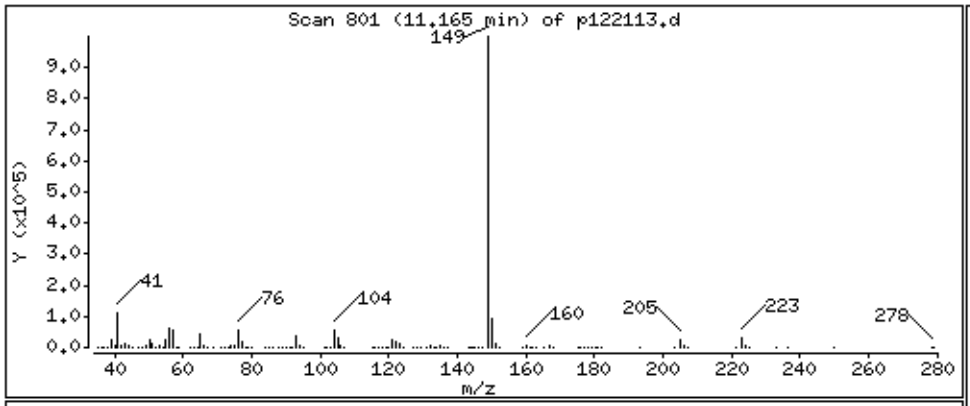
Operator: LP

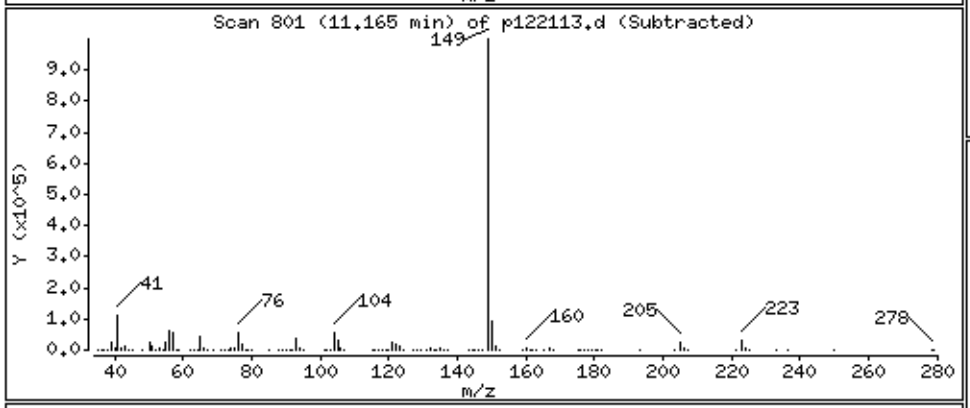
Column phase: DB-5.625

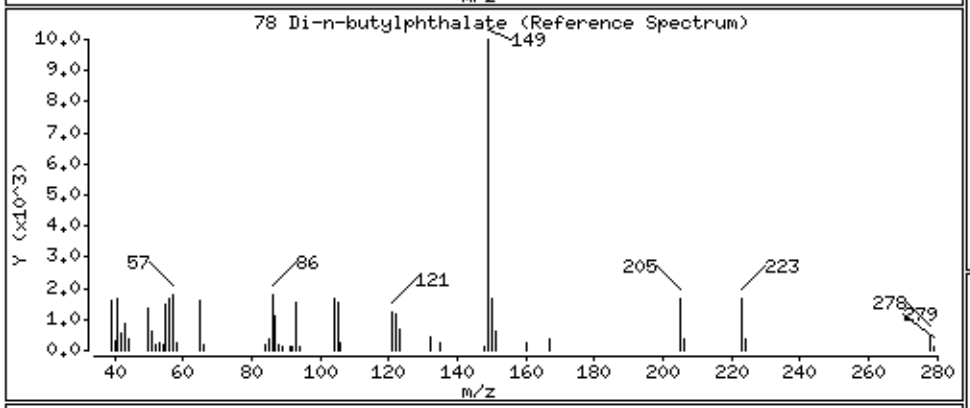
Column diameter: 0.25

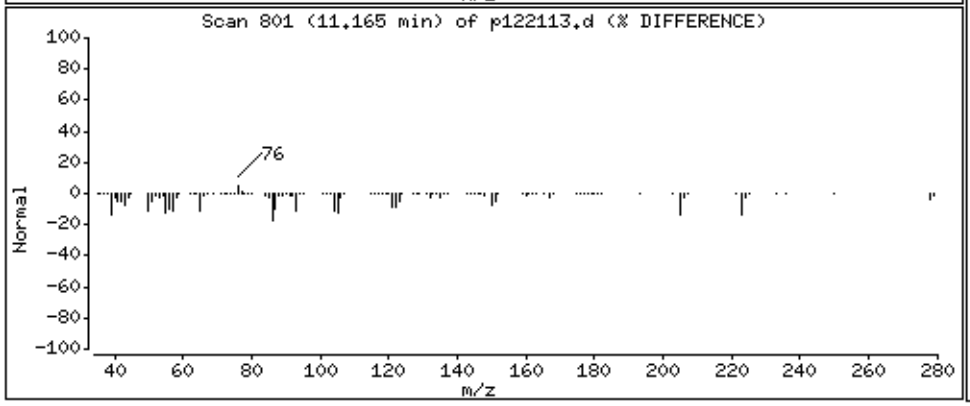
78 Di-n-butylphthalate

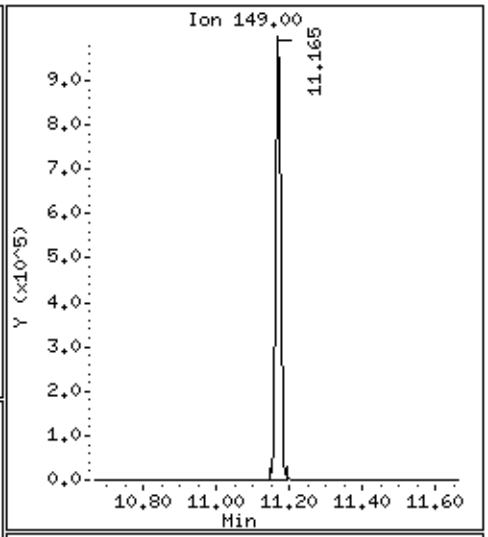
Concentration: 55.15 ug

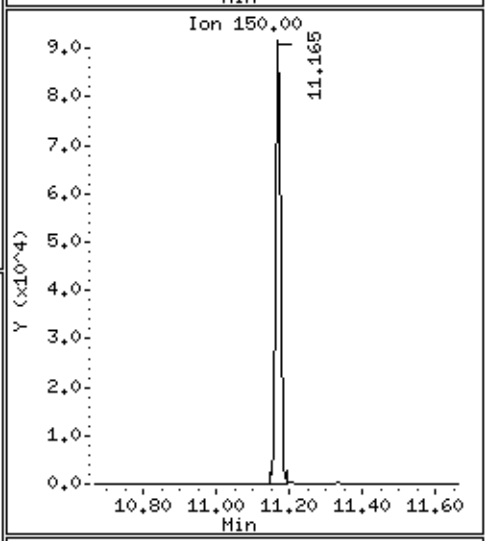


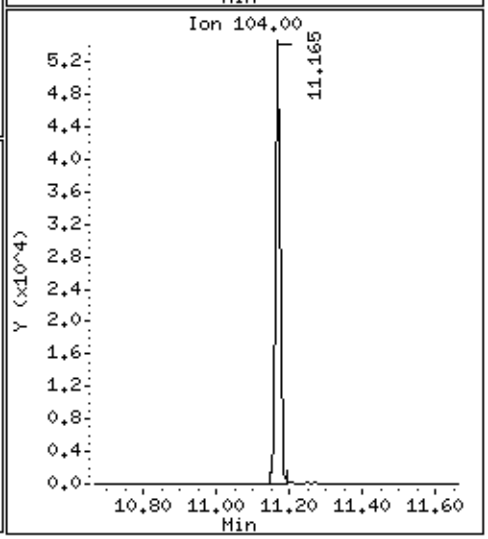












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

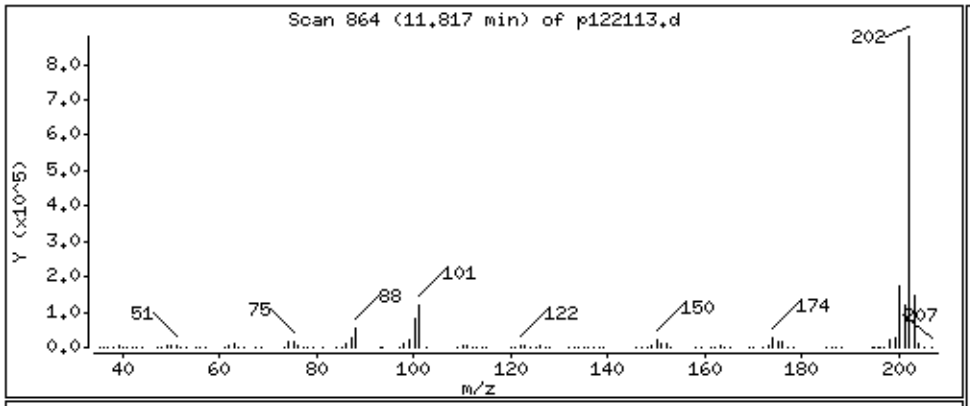
Operator: LP

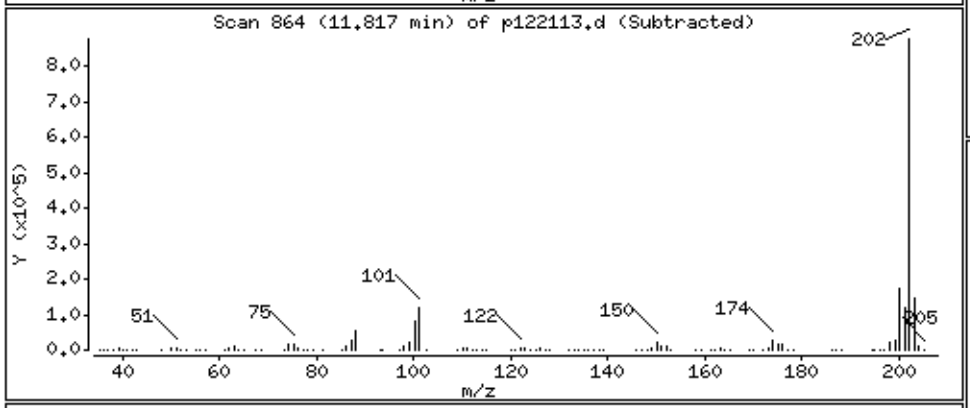
Column phase: DB-5.625

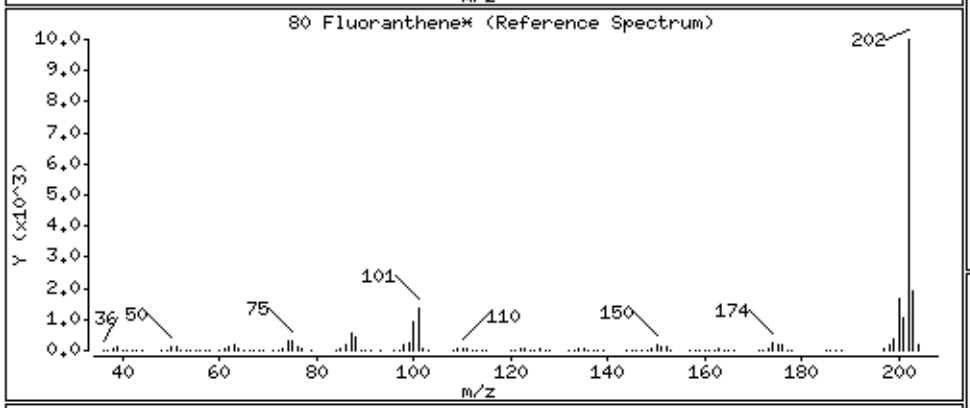
Column diameter: 0.25

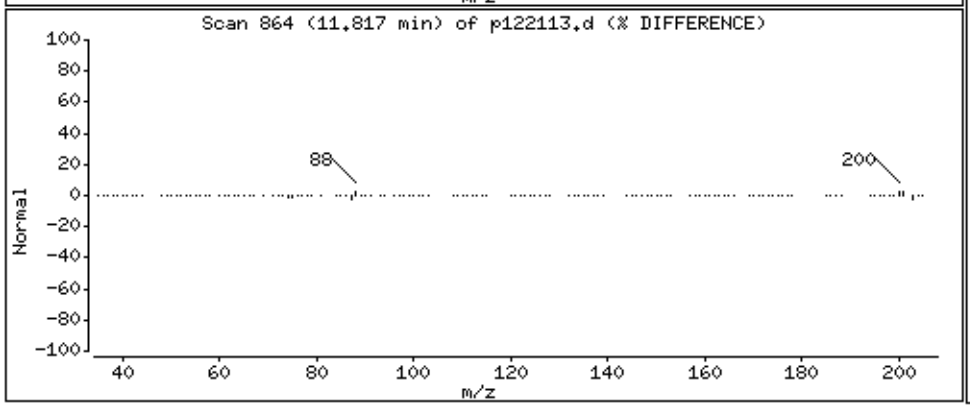
80 Fluoranthene*

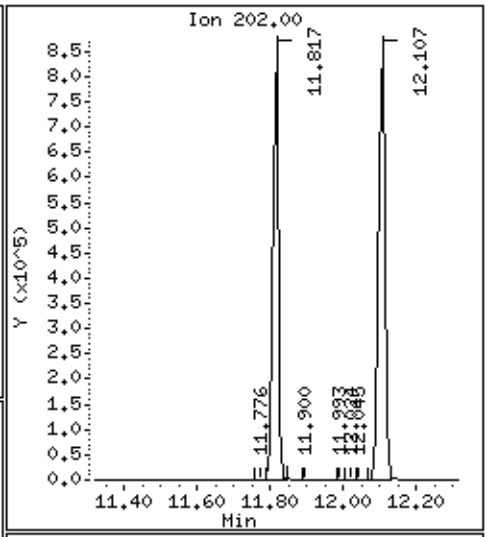
Concentration: 54.69 ug

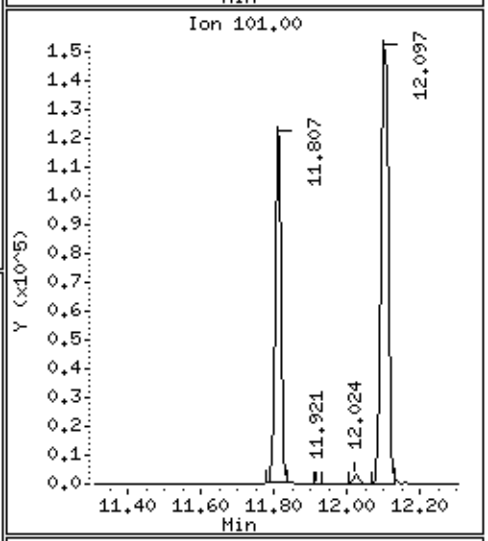


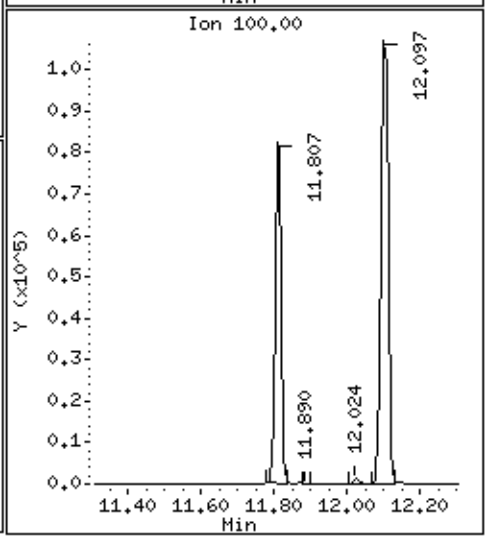












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

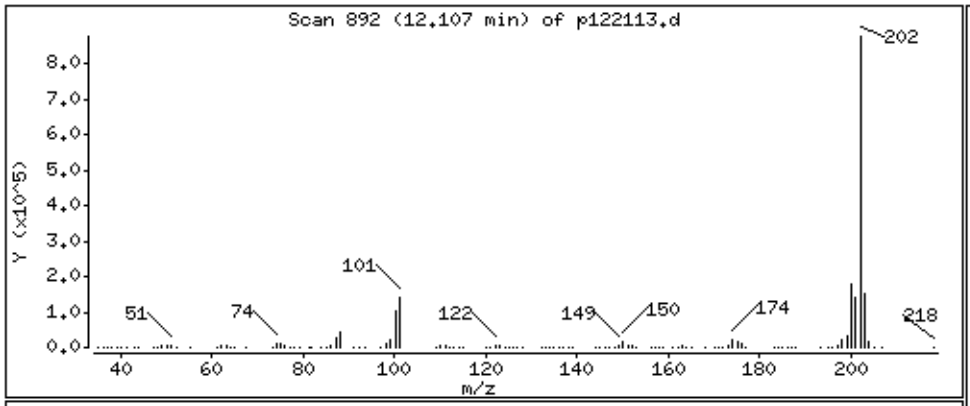
Operator: LP

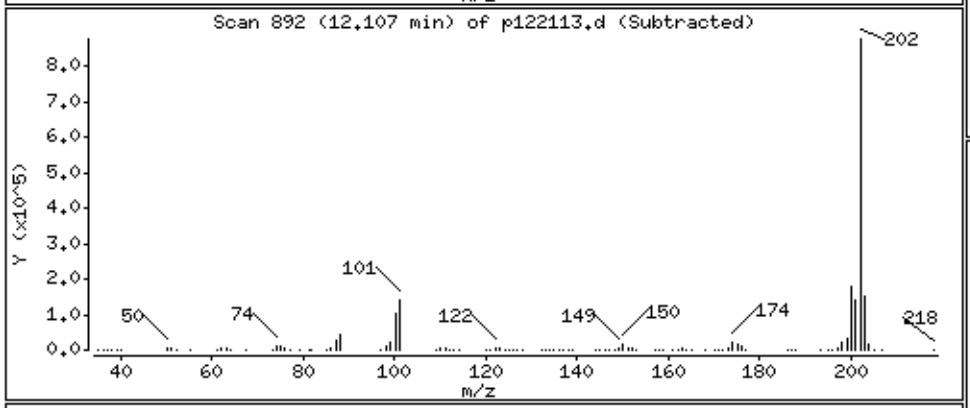
Column phase: DB-5.625

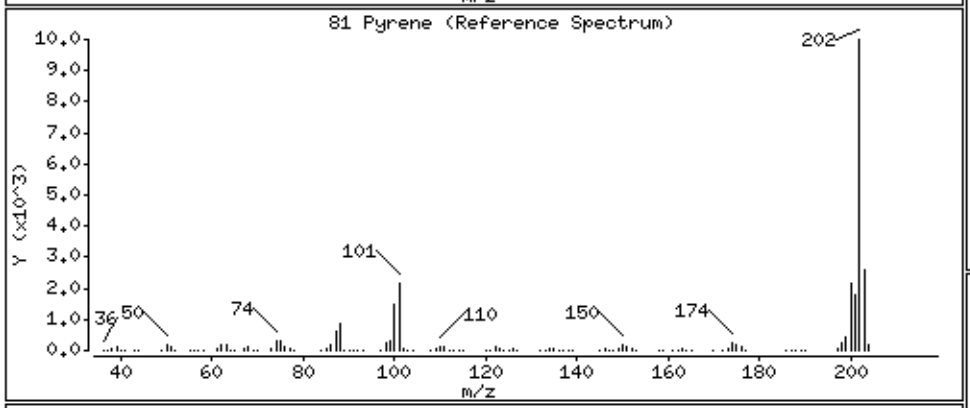
Column diameter: 0.25

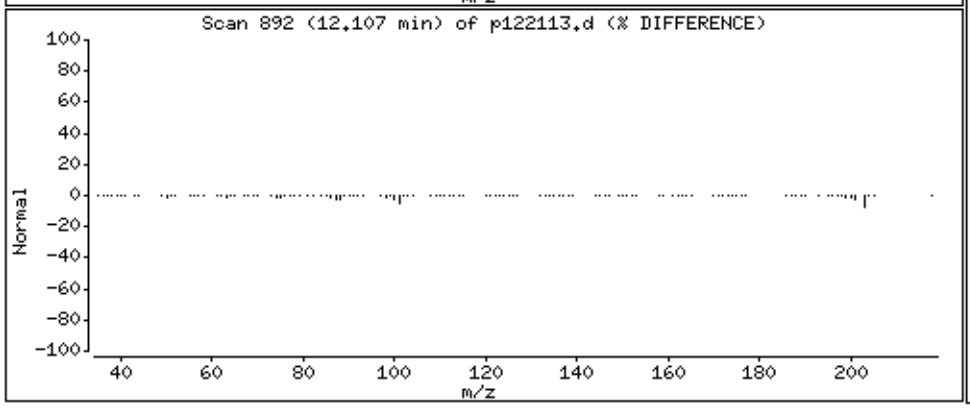
81 Pyrene

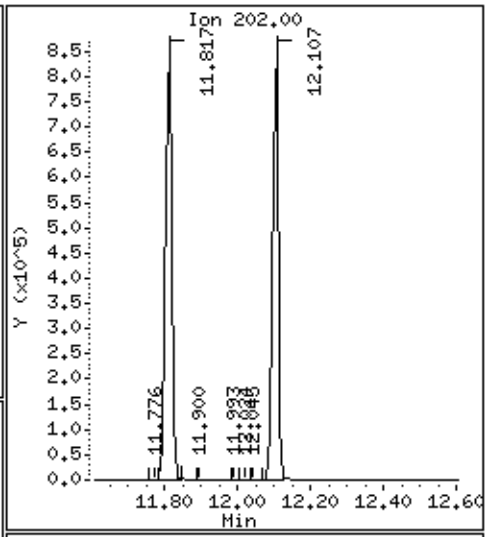
Concentration: 51.90 ug

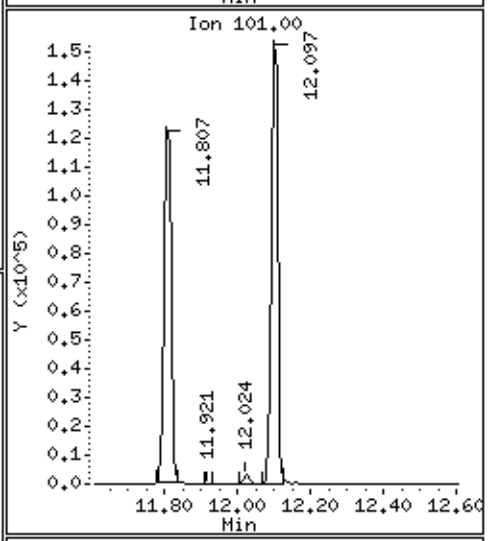


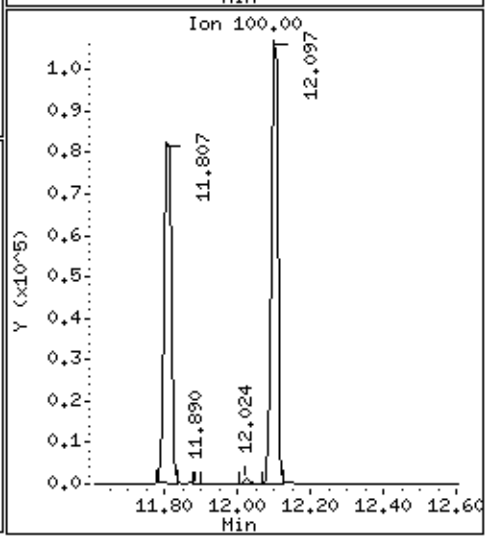












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

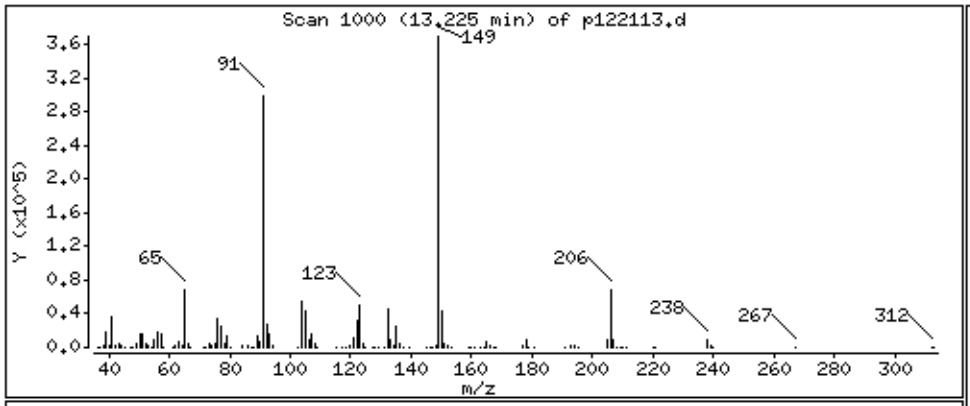
Operator: LP

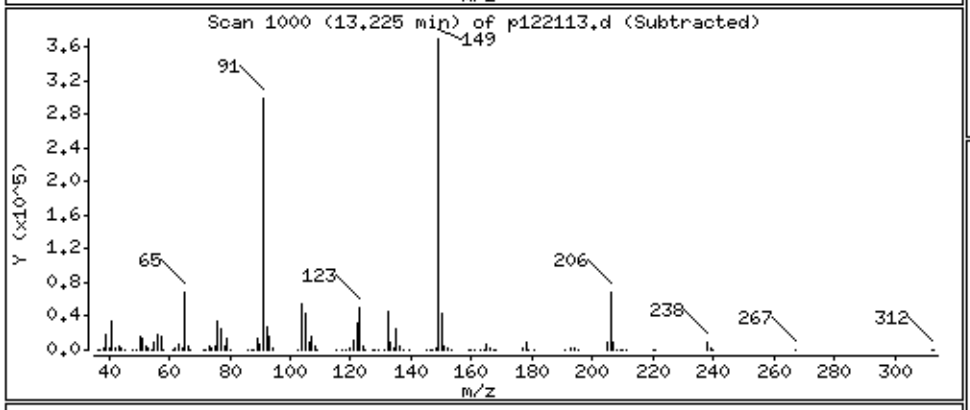
Column phase: DB-5.625

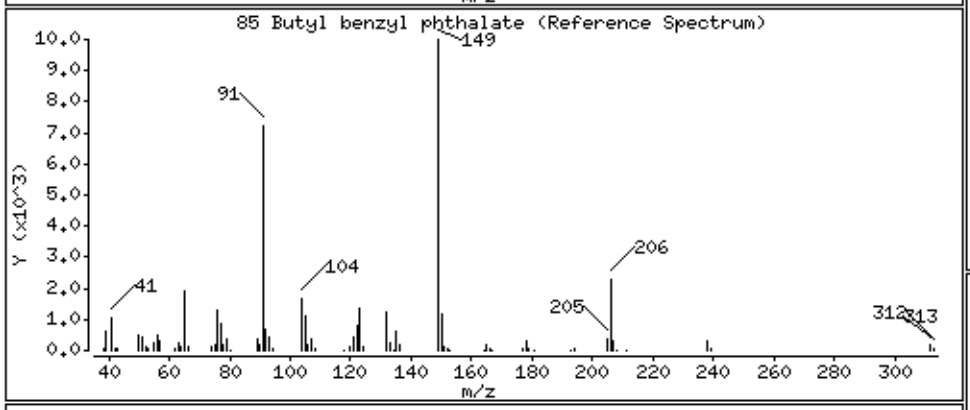
Column diameter: 0.25

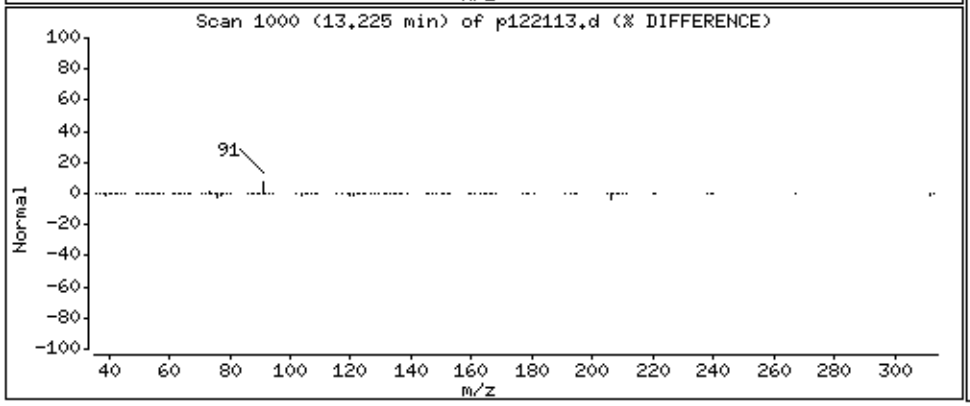
85 Butyl benzyl phthalate

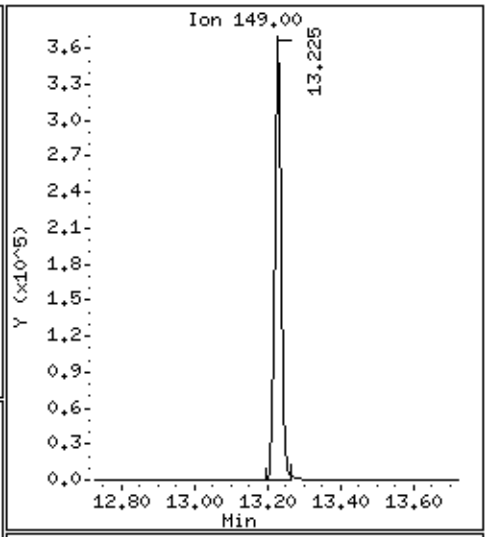
Concentration: 52.26 ug

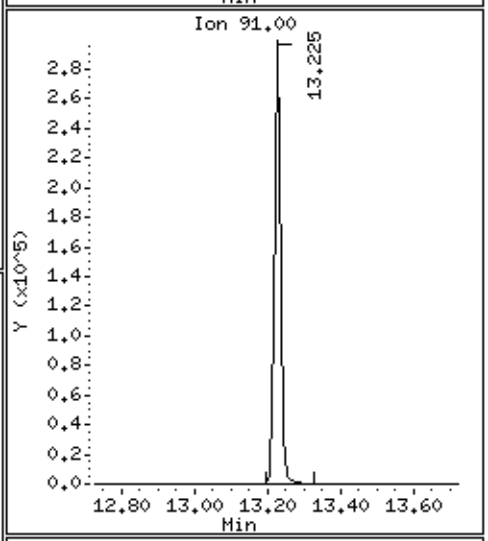


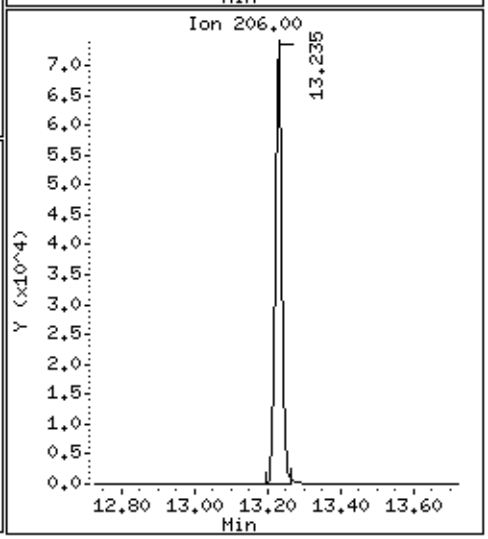












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

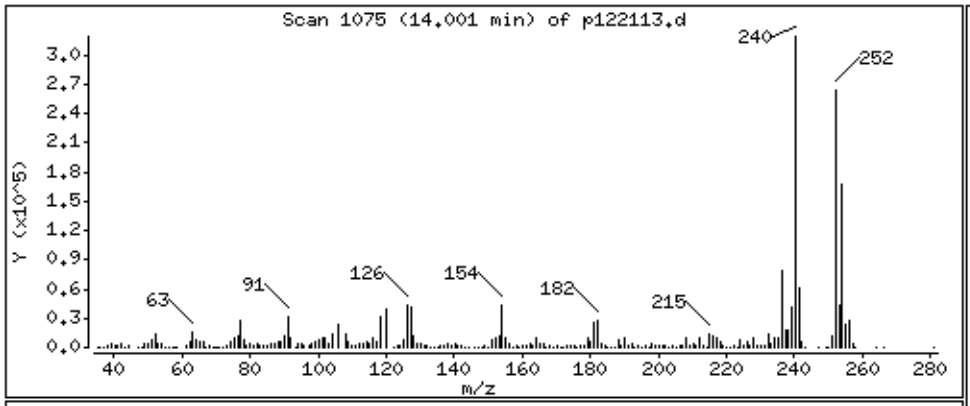
Operator: LP

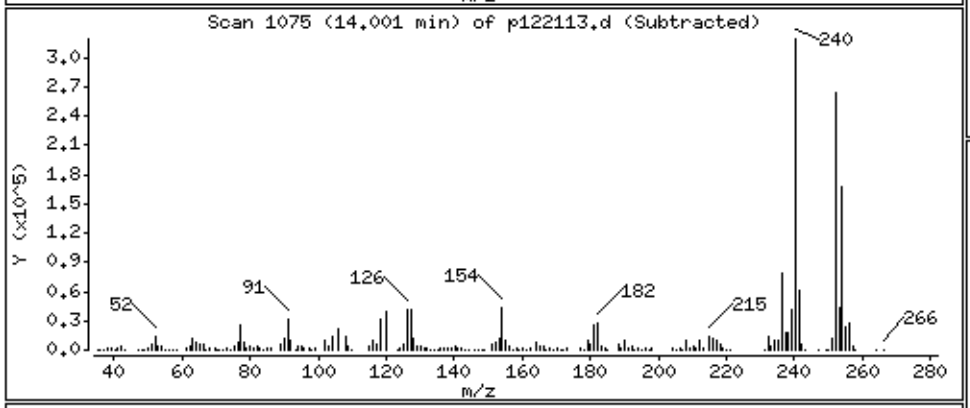
Column phase: DB-5.625

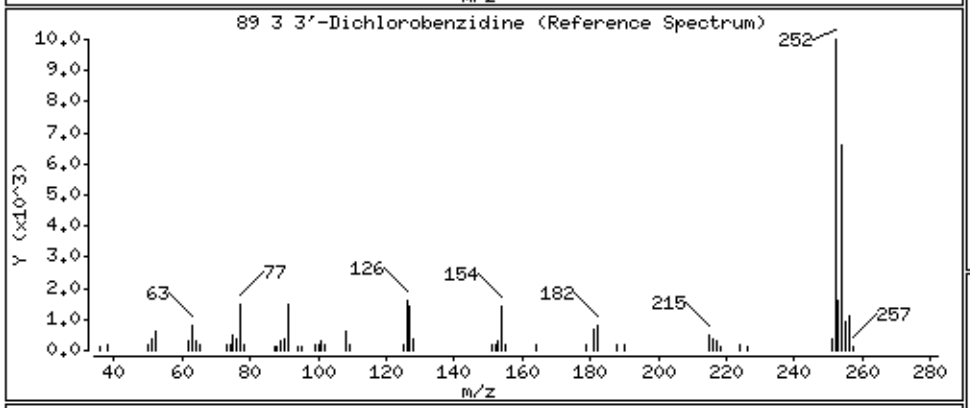
Column diameter: 0.25

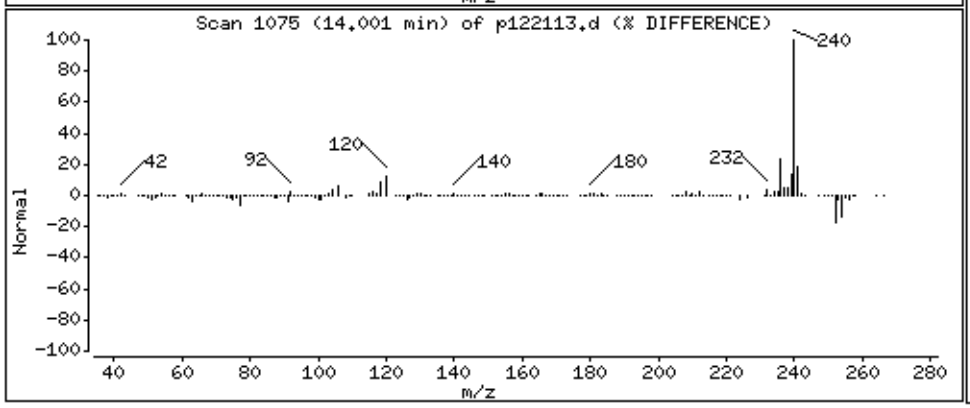
89 3 3'-Dichlorobenzidine

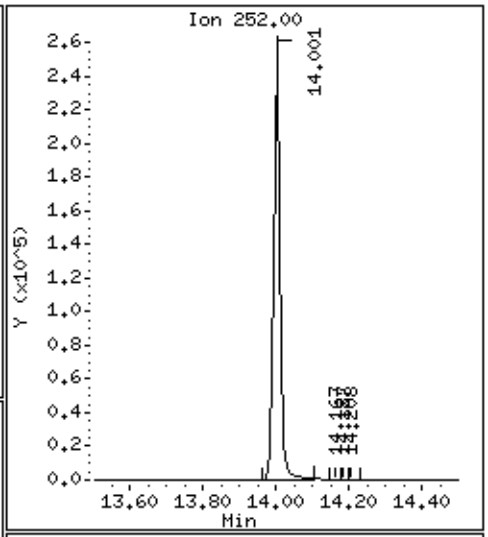
Concentration: 53.92 ug

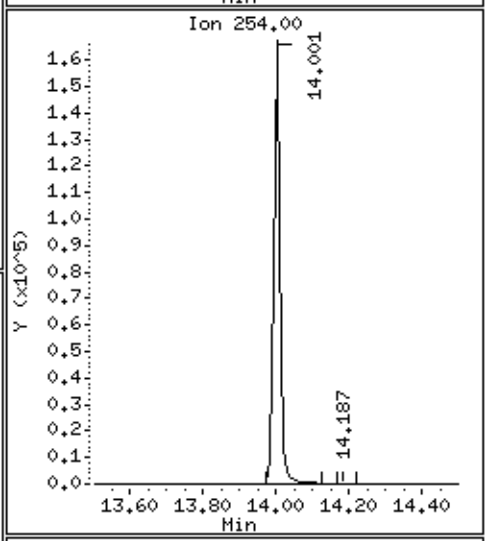


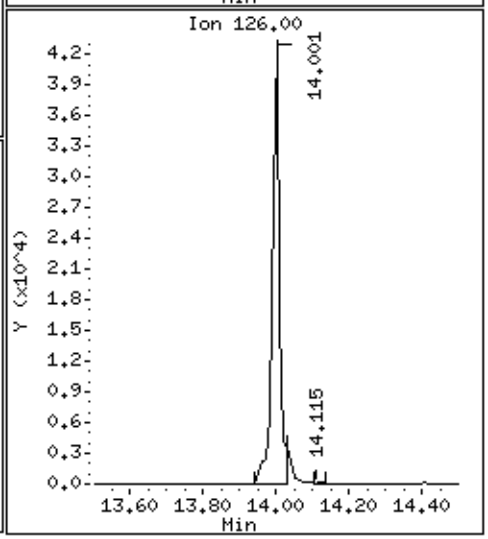












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

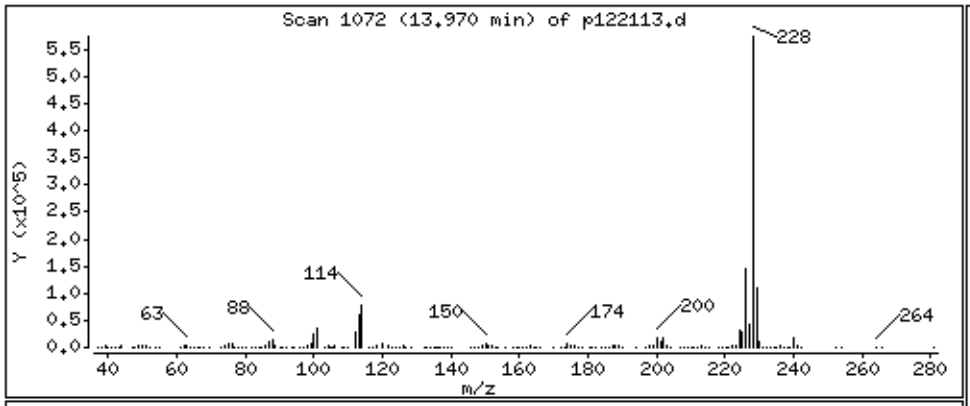
Operator: LP

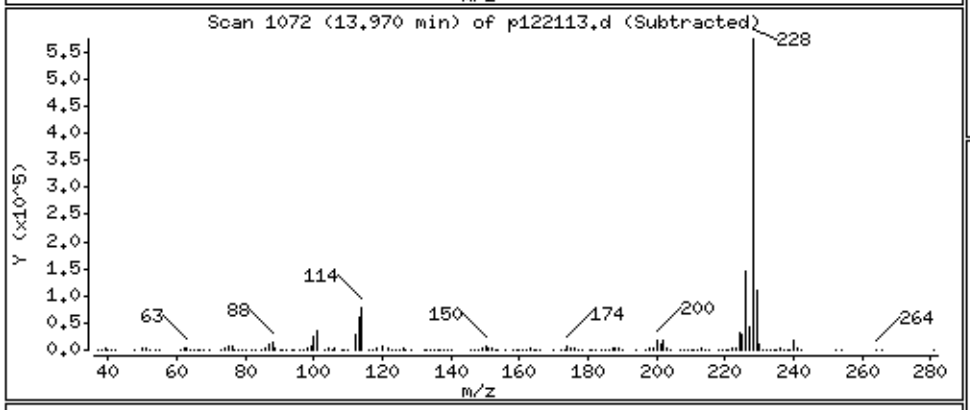
Column phase: DB-5.625

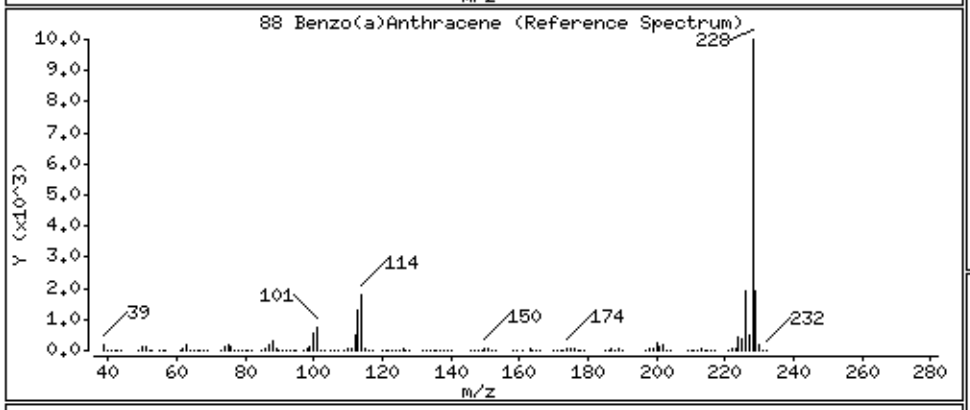
Column diameter: 0.25

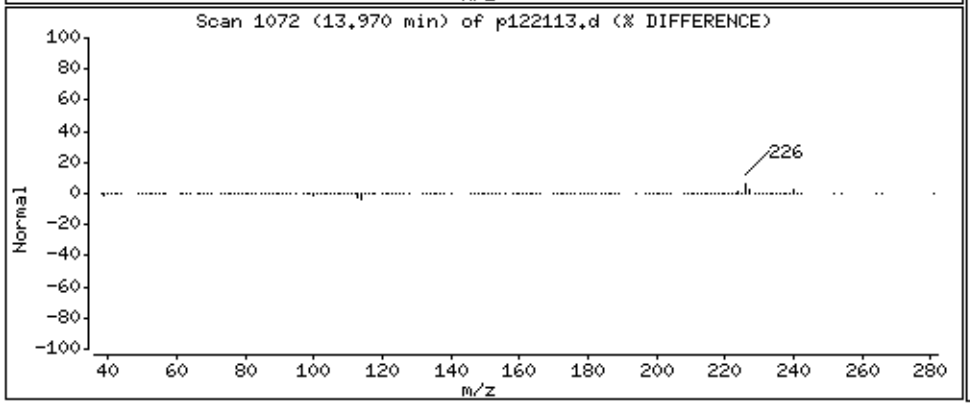
88 Benzo(a)Anthracene

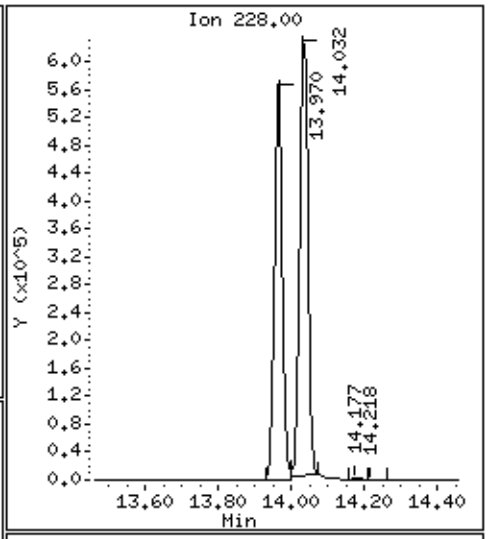
Concentration: 52.11 ug

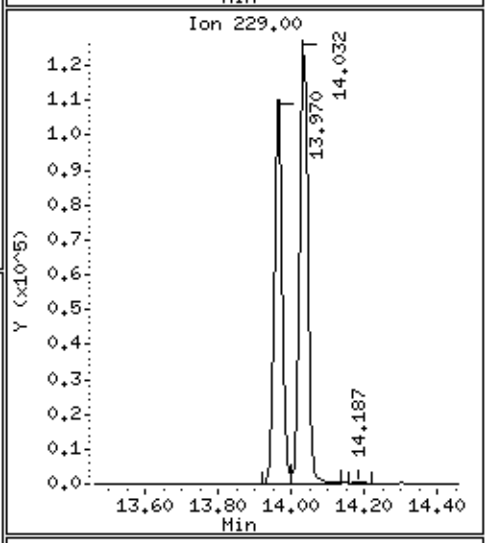


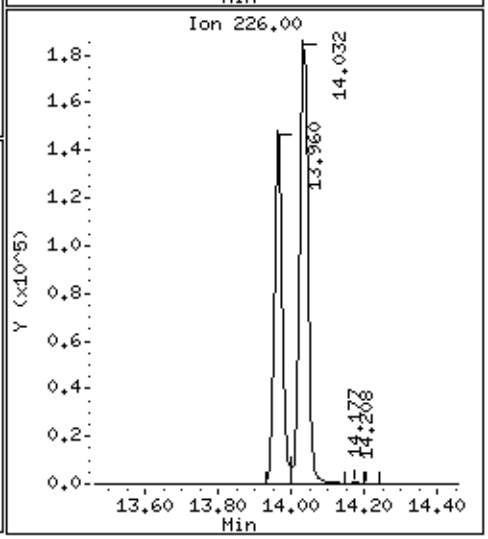












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

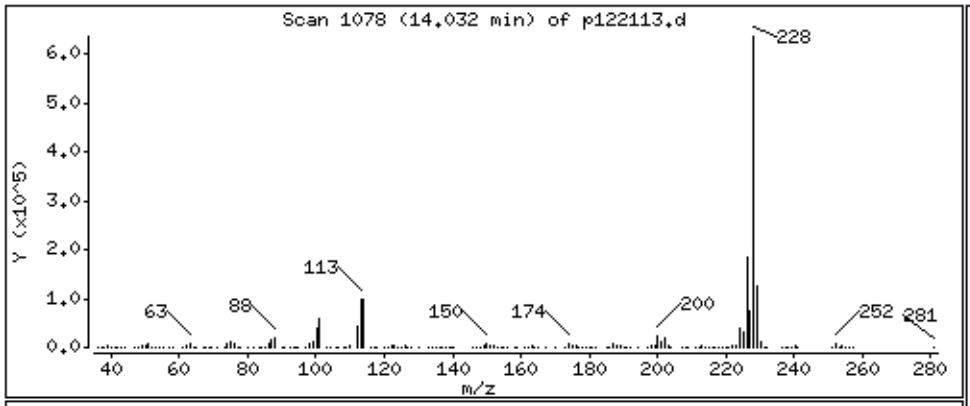
Operator: LP

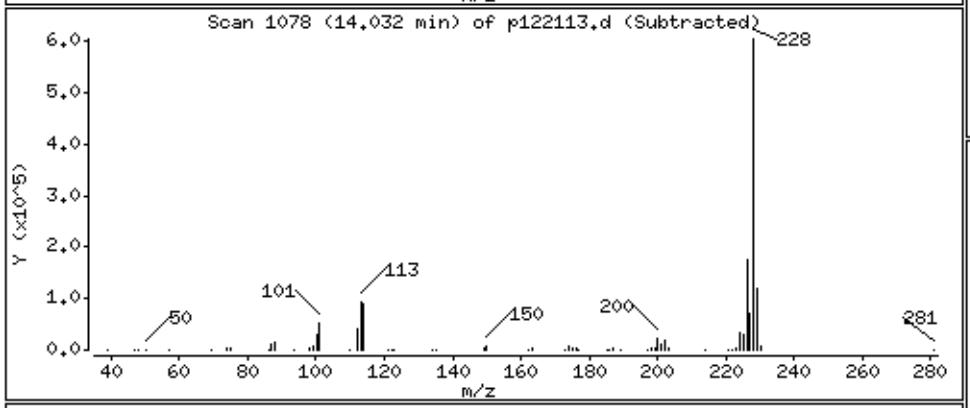
Column phase: DB-5.625

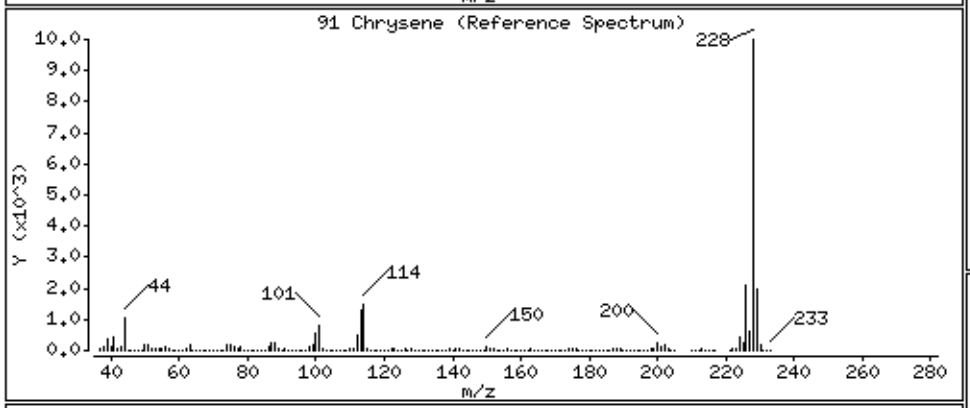
Column diameter: 0.25

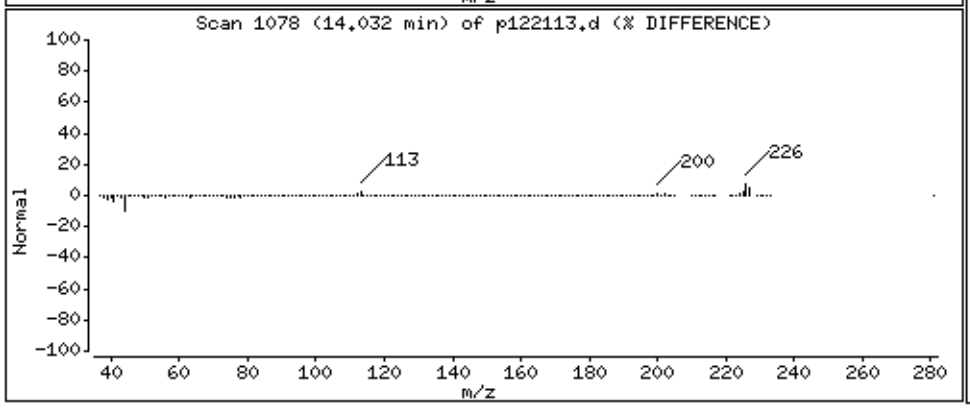
91 Chrysene

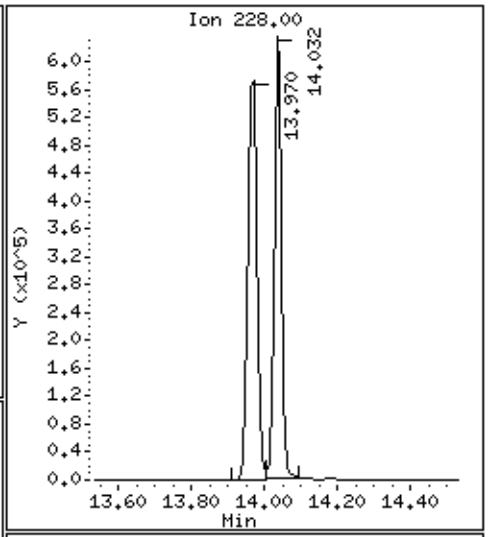
Concentration: 51.43 ug

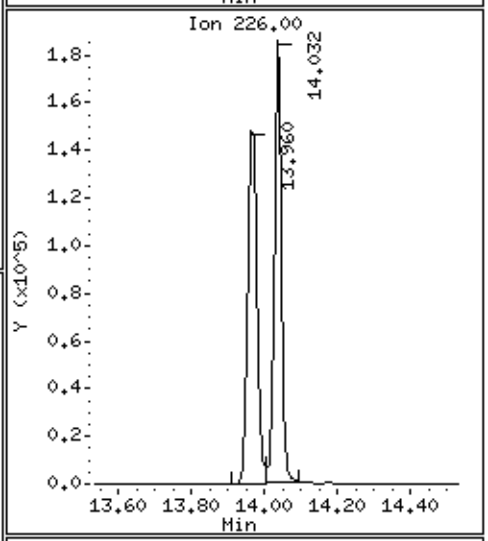


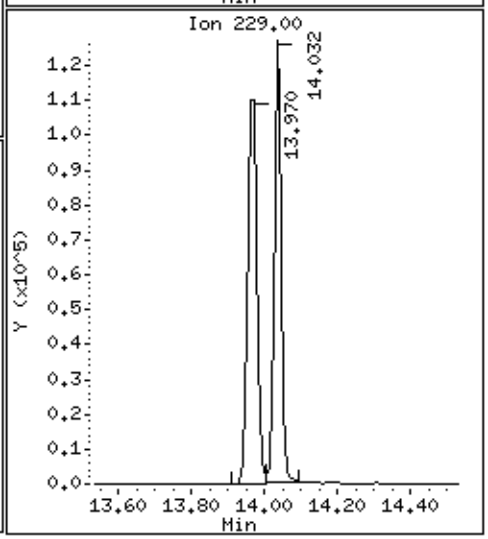












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

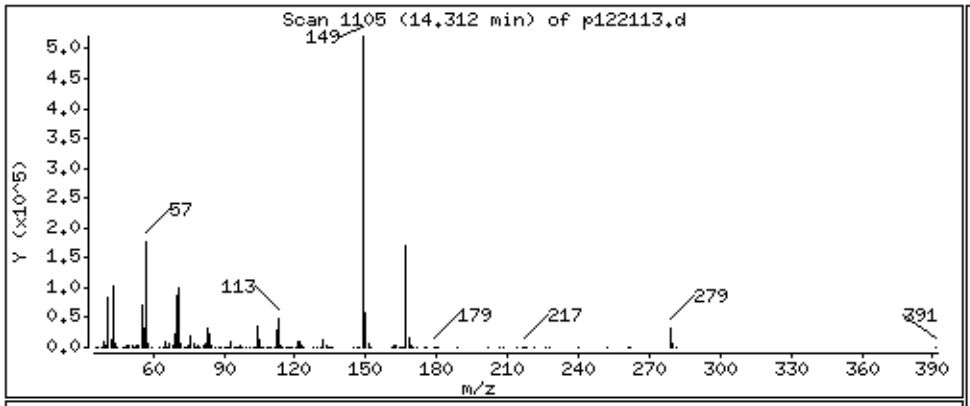
Operator: LP

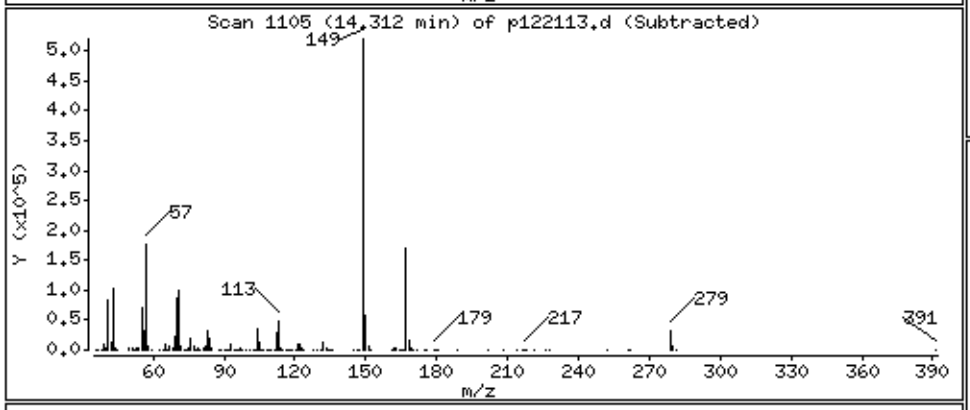
Column phase: DB-5.625

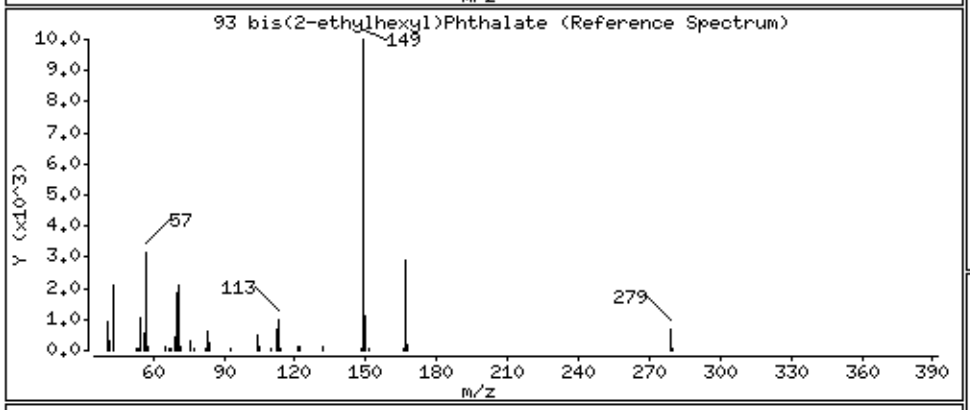
Column diameter: 0.25

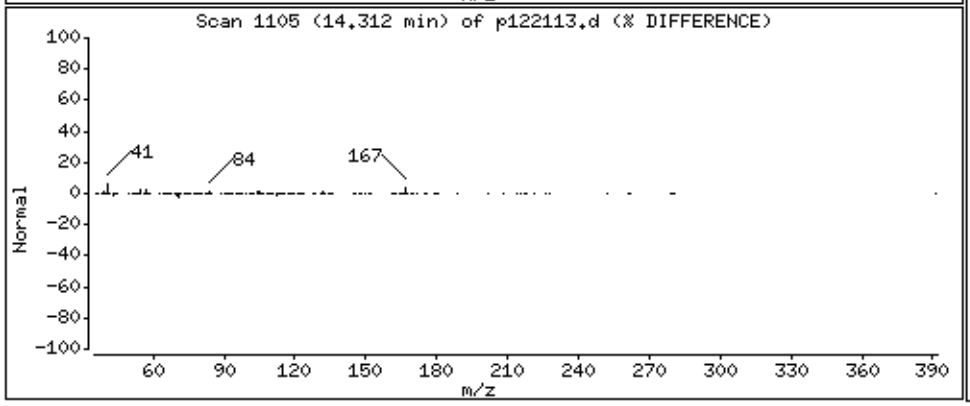
93 bis(2-ethylhexyl)Phthalate

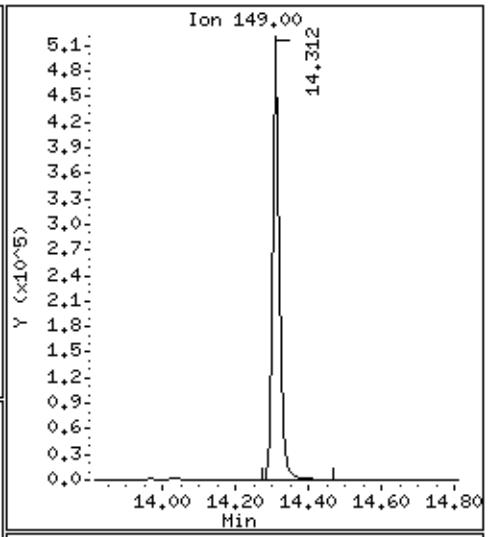
Concentration: 55.60 ug

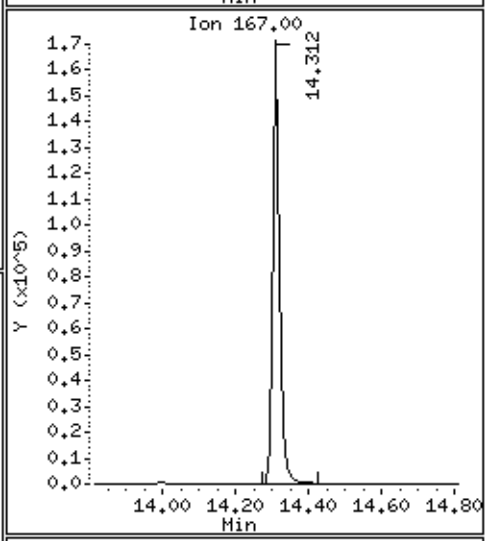


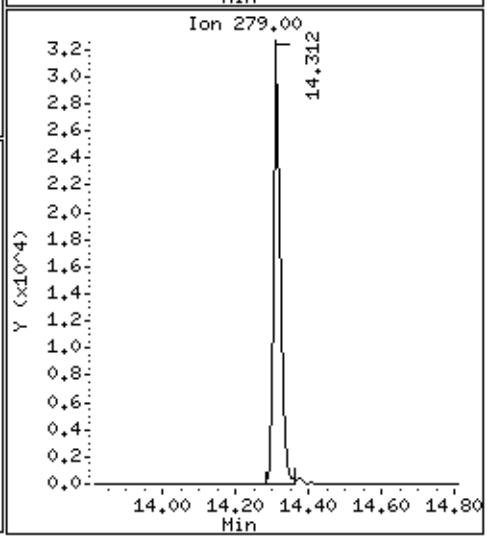












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

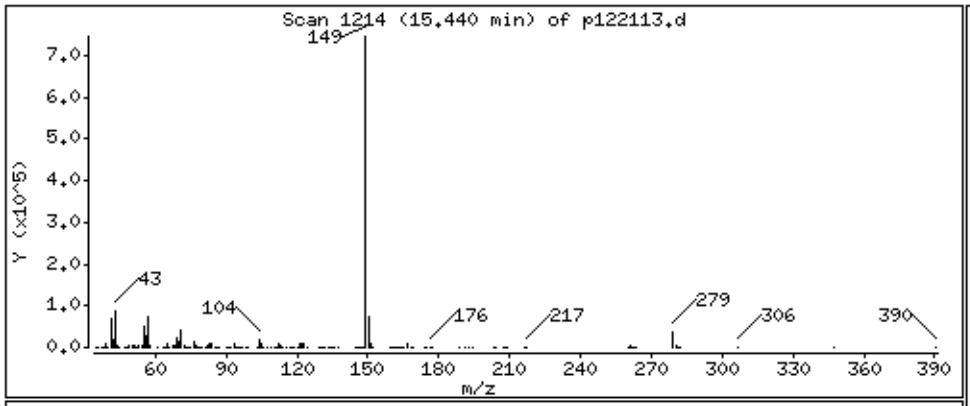
Operator: LP

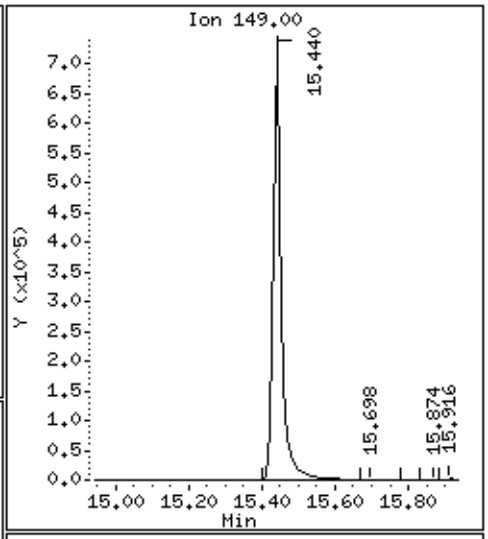
Column phase: DB-5.625

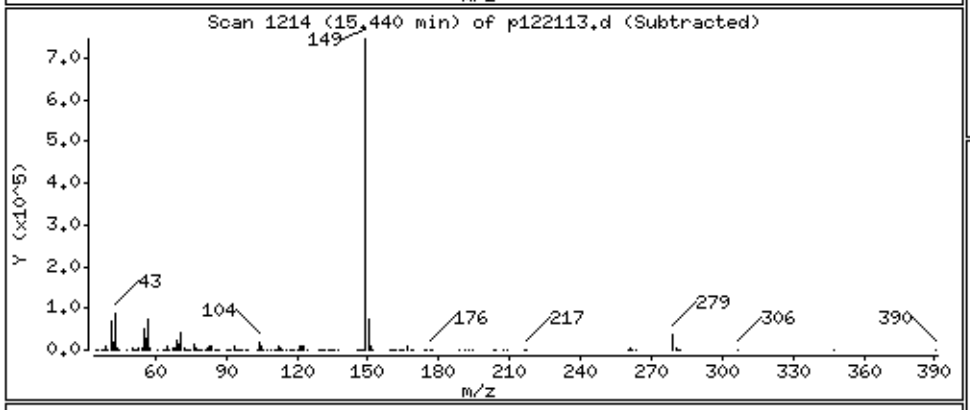
Column diameter: 0.25

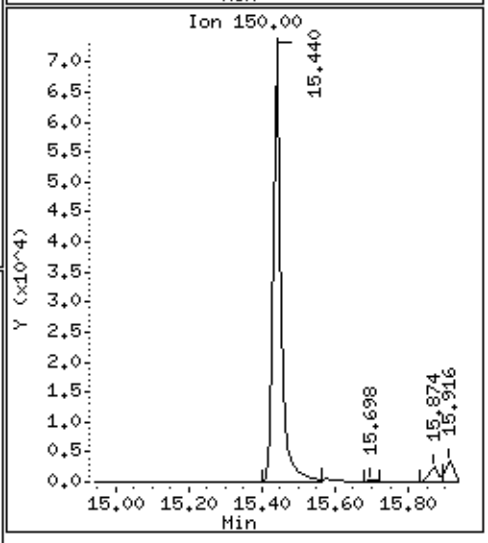
94 Di-n-octyl phthalate*

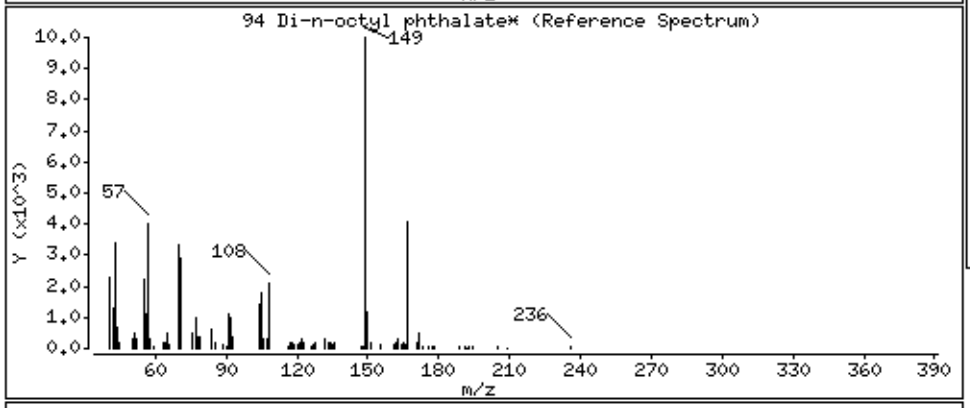
Concentration: 59.42 ug

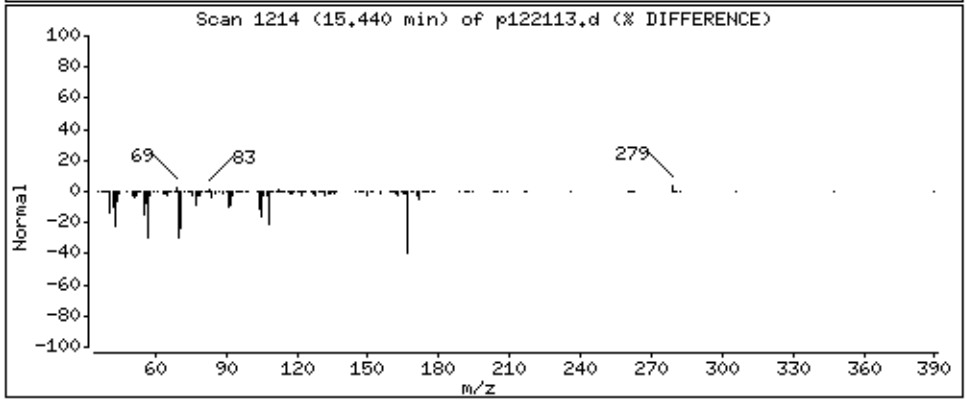












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

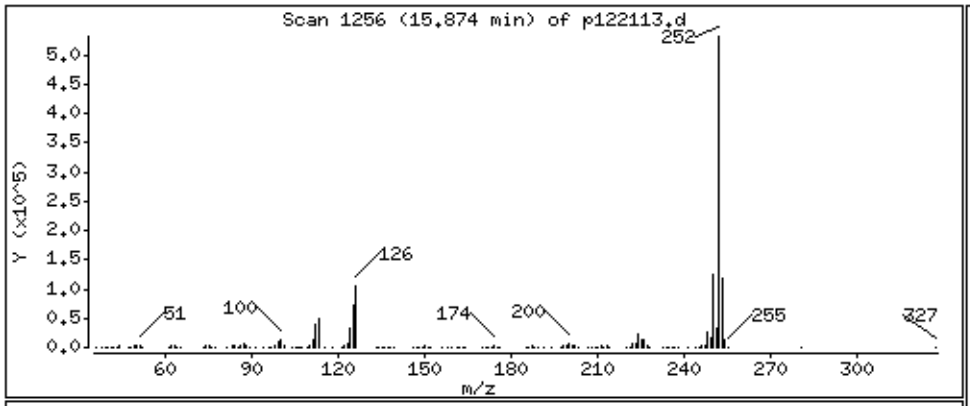
Operator: LP

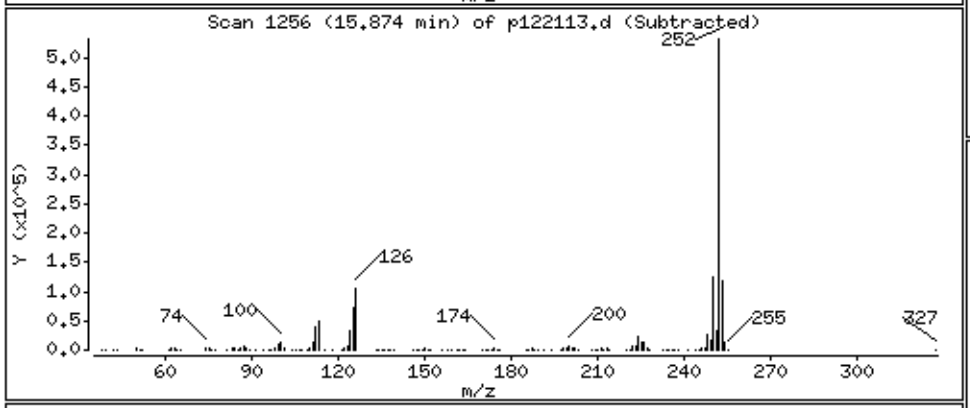
Column phase: DB-5.625

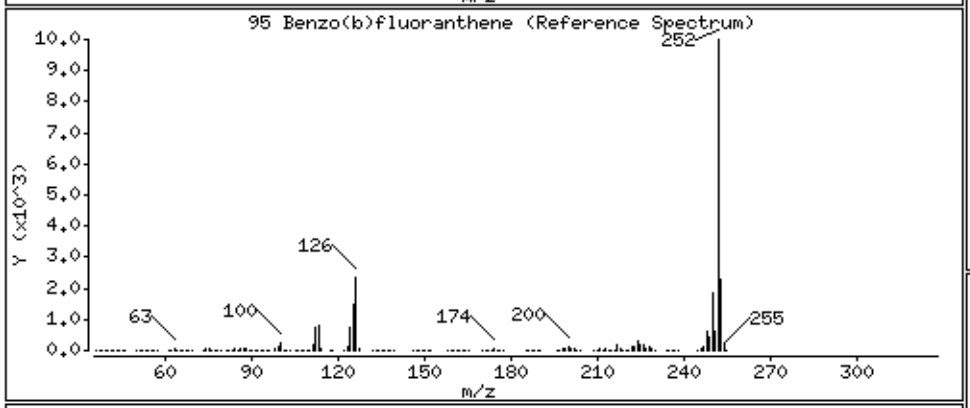
Column diameter: 0.25

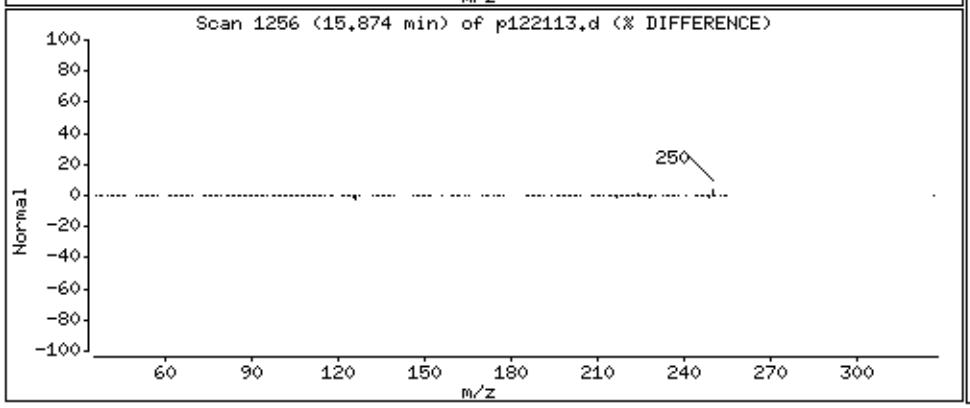
95 Benzo(b)fluoranthene

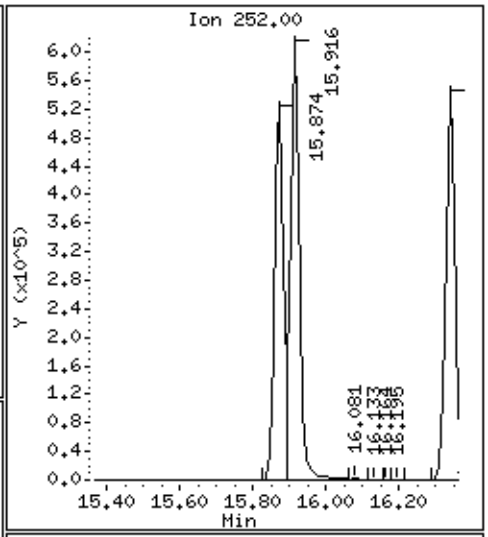
Concentration: 54.17 ug

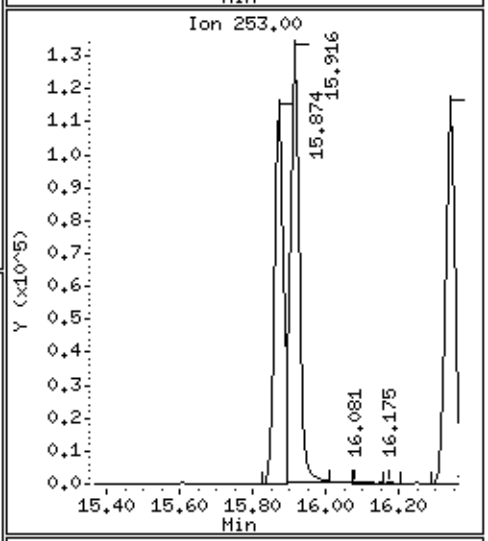


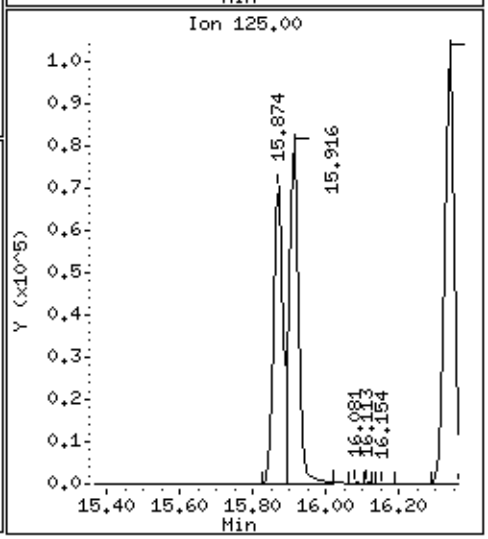












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

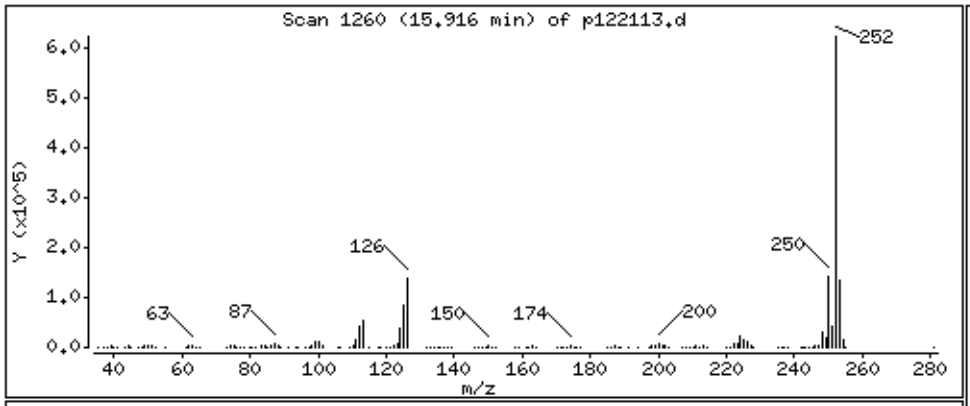
Operator: LP

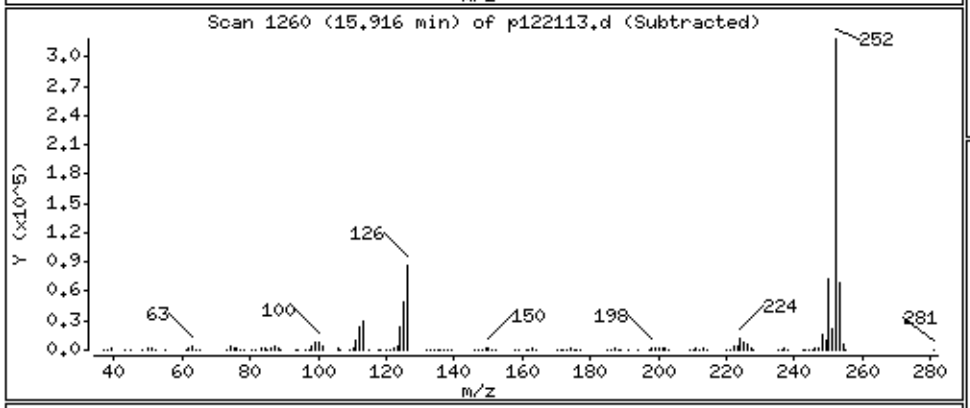
Column phase: DB-5.625

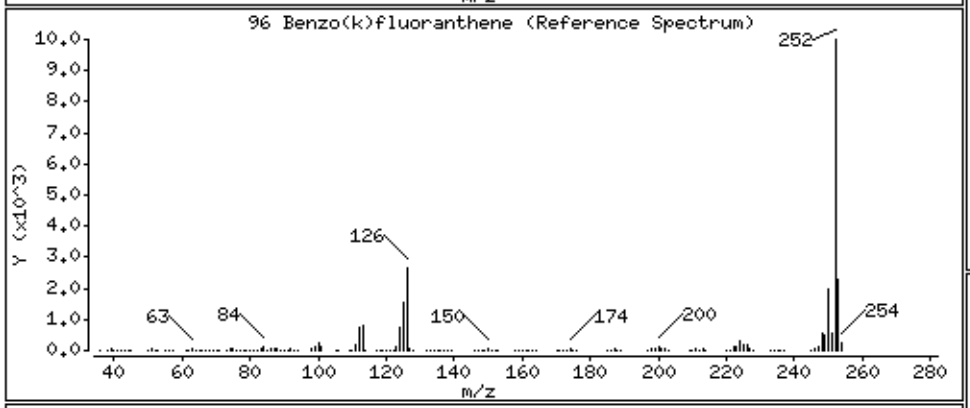
Column diameter: 0.25

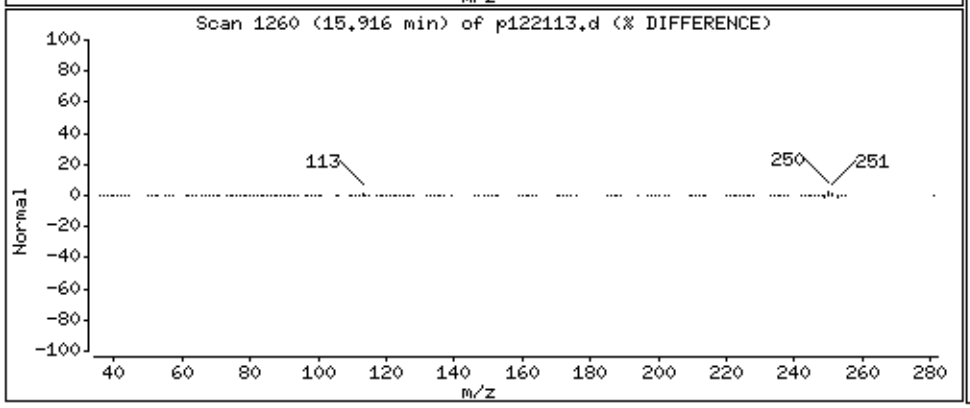
96 Benzo(k)fluoranthene

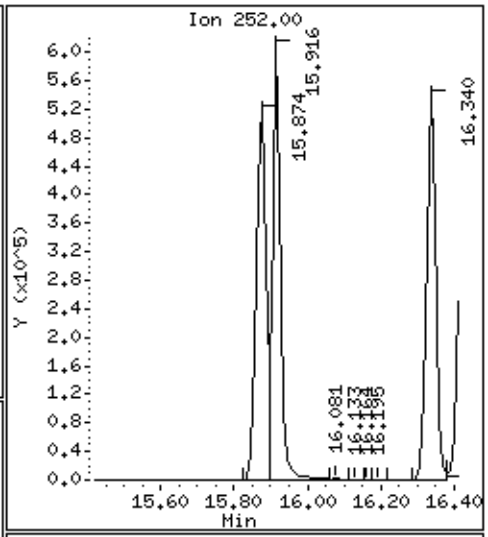
Concentration: 53.24 ug

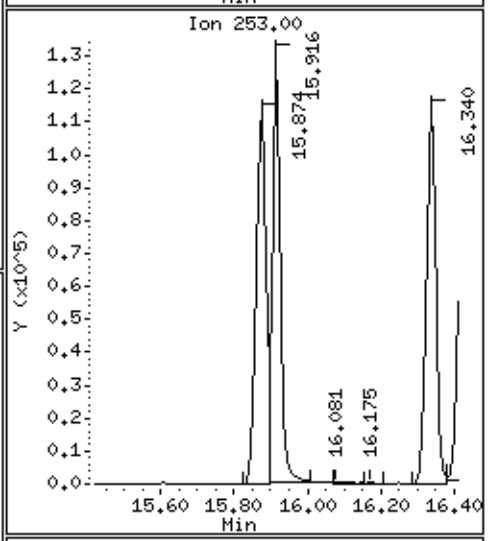


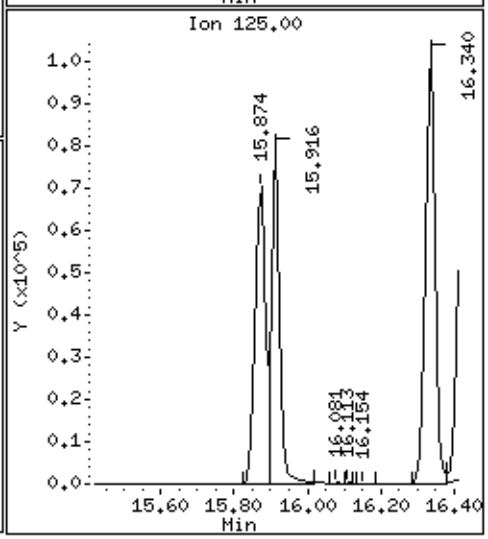












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

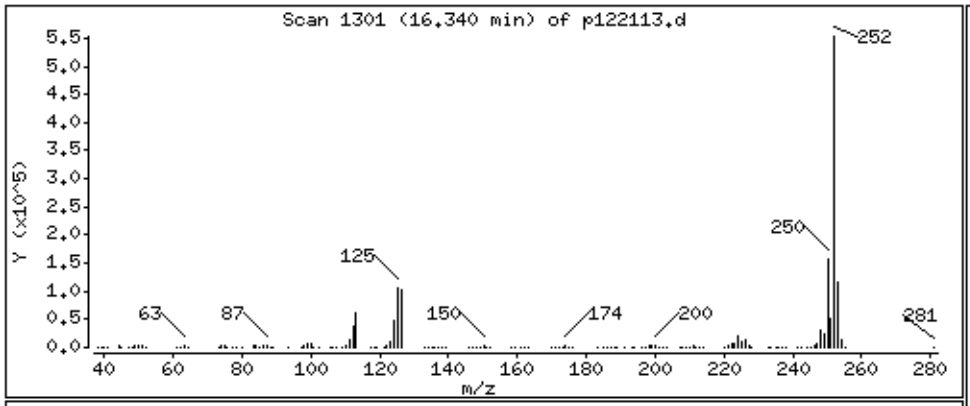
Operator: LP

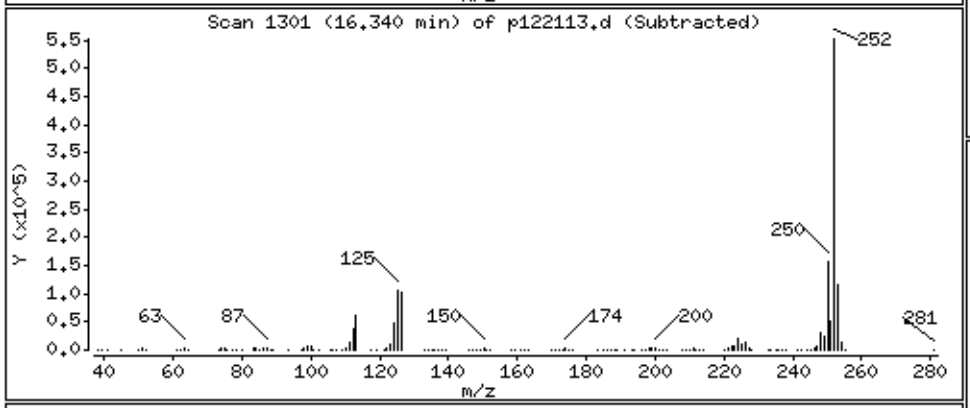
Column phase: DB-5.625

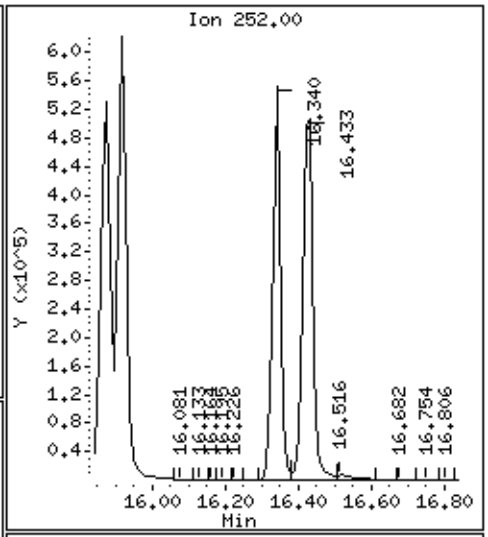
Column diameter: 0.25

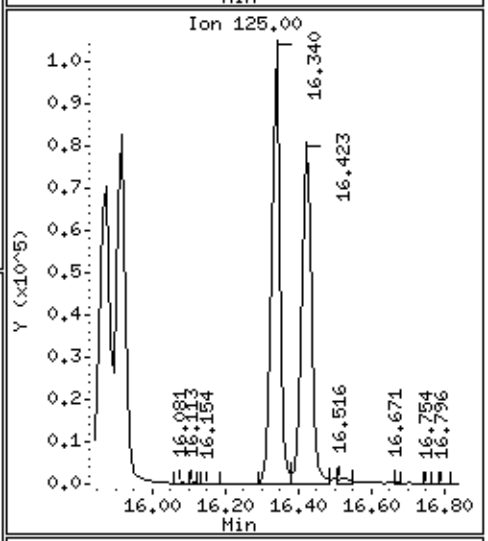
97 Benzo(e)pyrene

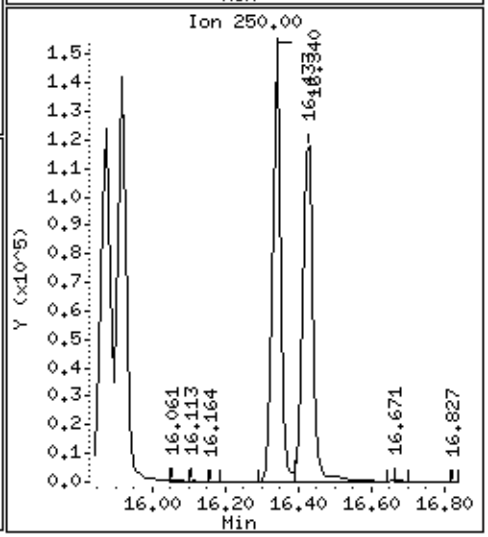
Concentration: 53.00 ug











Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

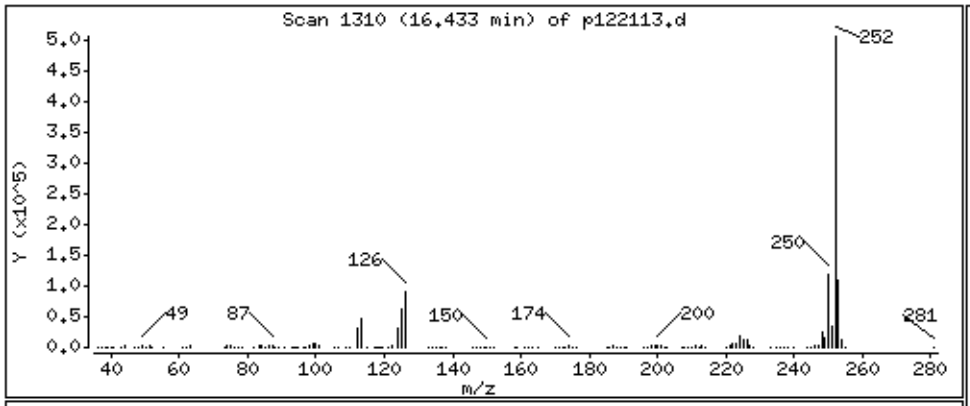
Operator: LP

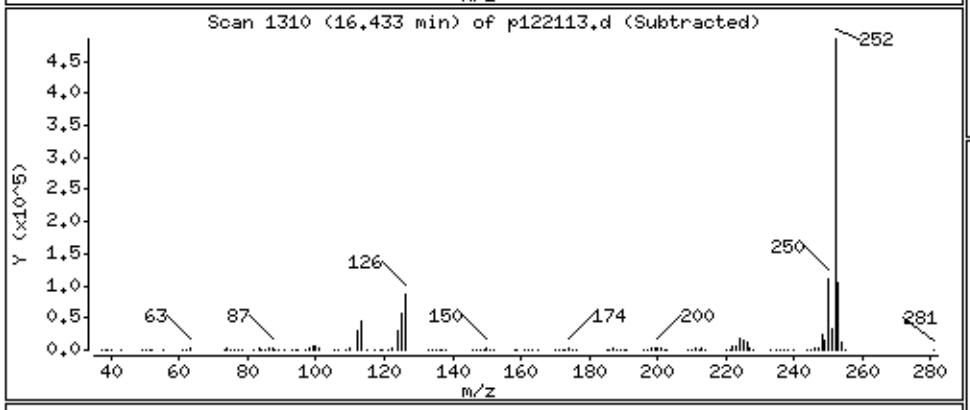
Column phase: DB-5.625

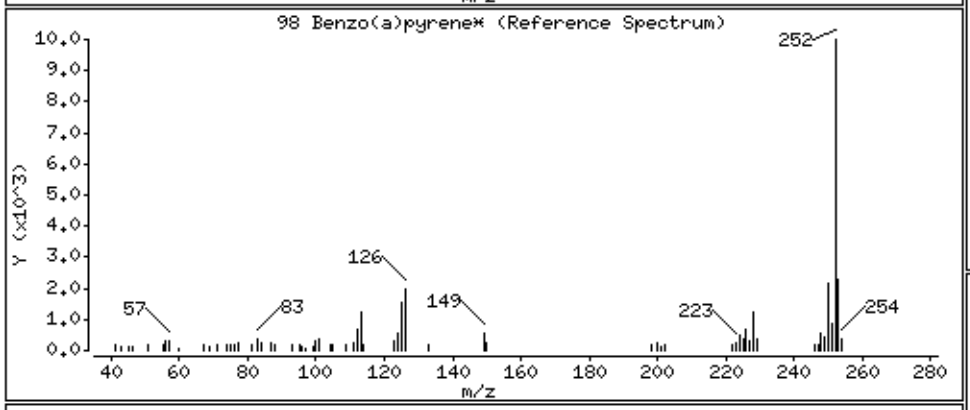
Column diameter: 0.25

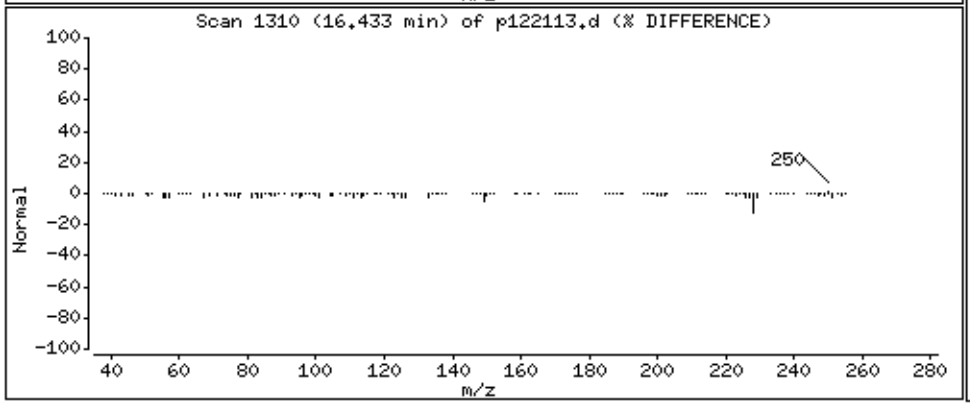
98 Benzo(a)pyrene*

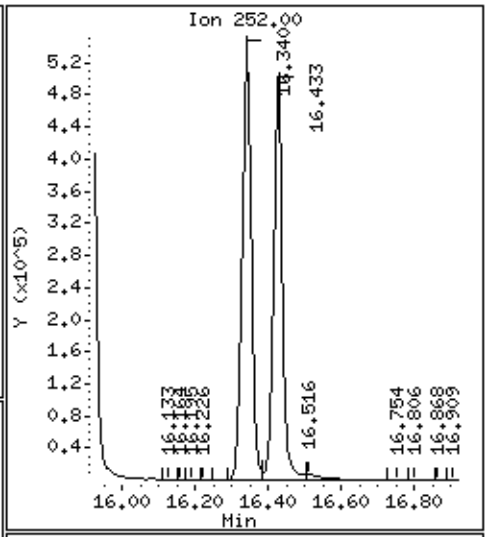
Concentration: 55.86 ug

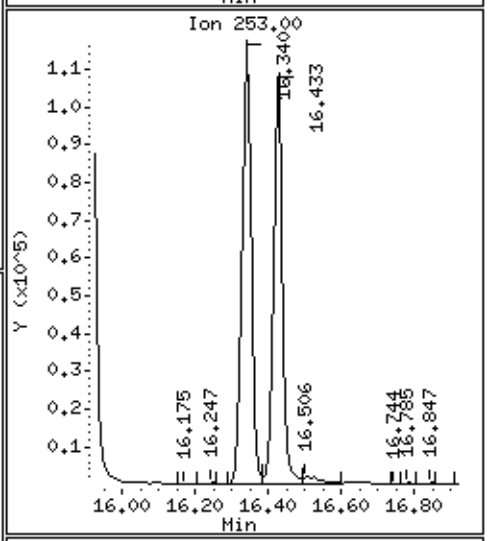


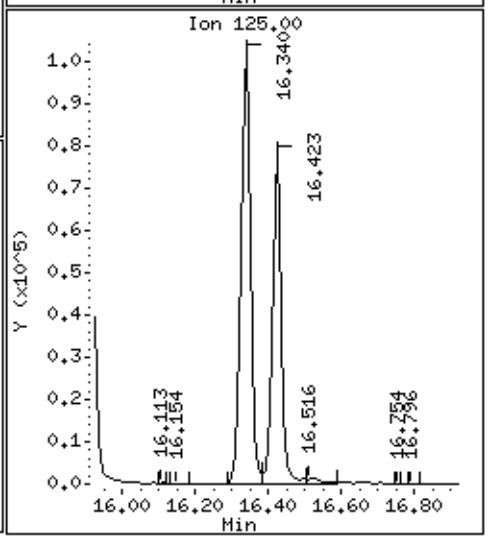












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

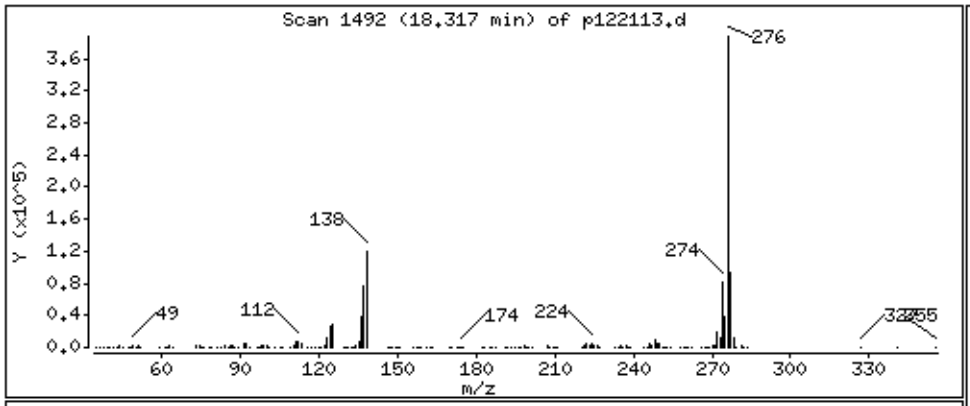
Operator: LP

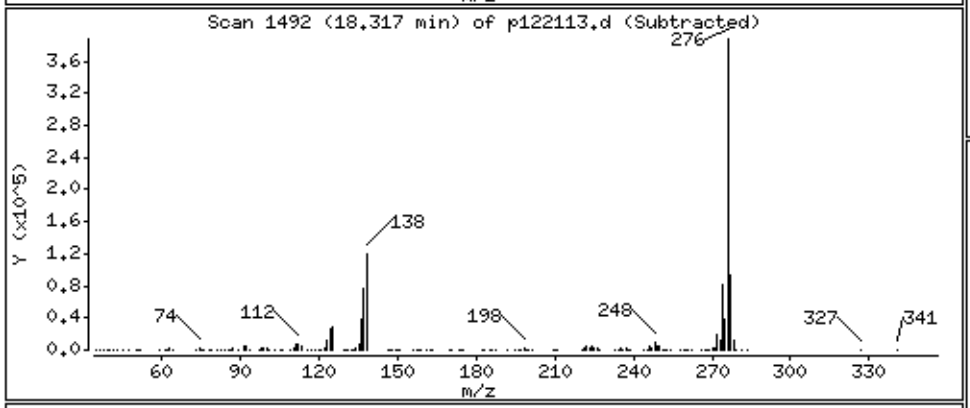
Column phase: DB-5.625

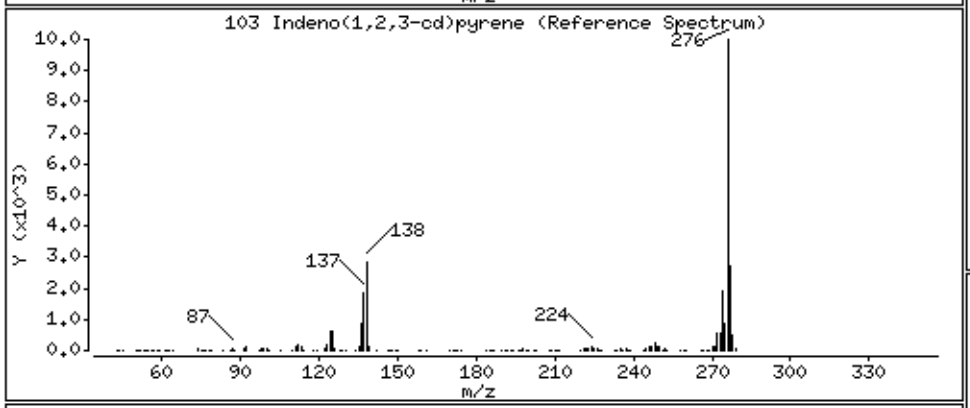
Column diameter: 0.25

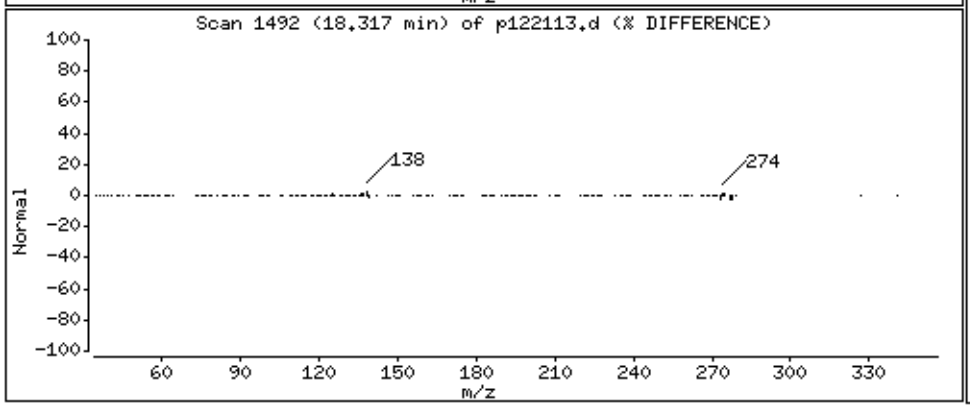
103 Indeno(1,2,3-cd)pyrene

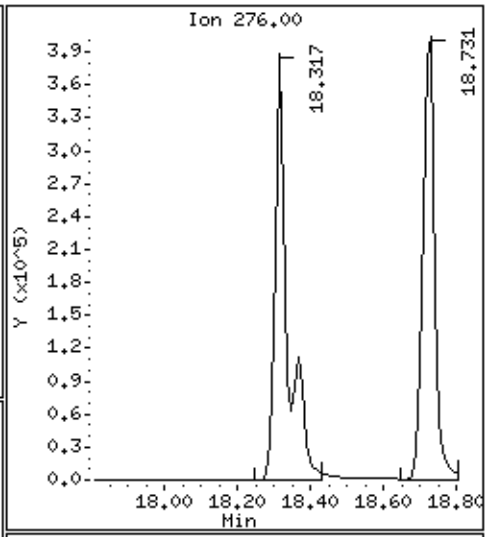
Concentration: 55.52 ug

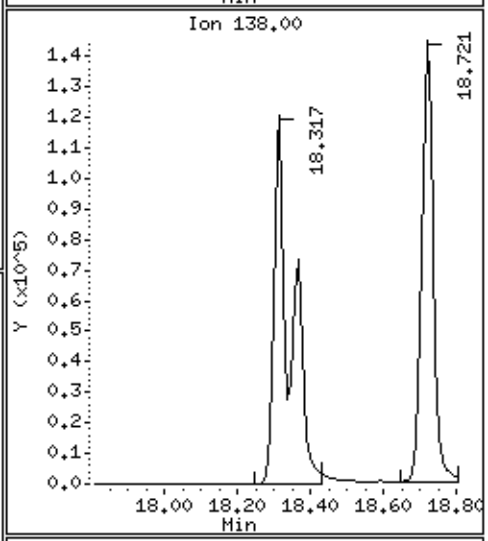


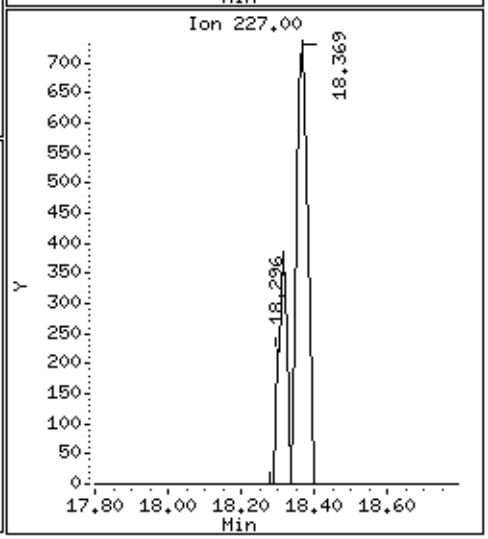












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

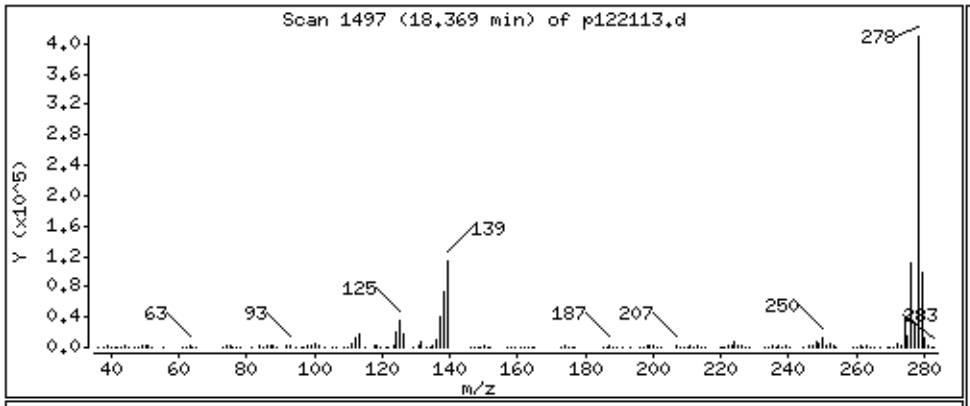
Operator: LP

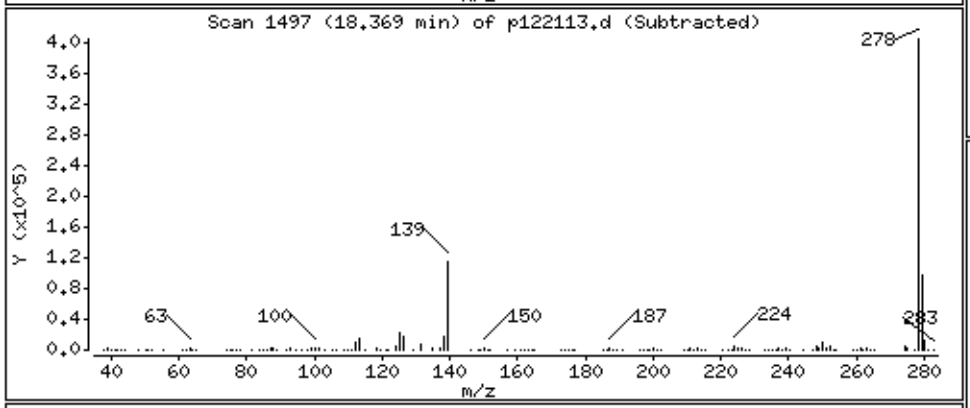
Column phase: DB-5.625

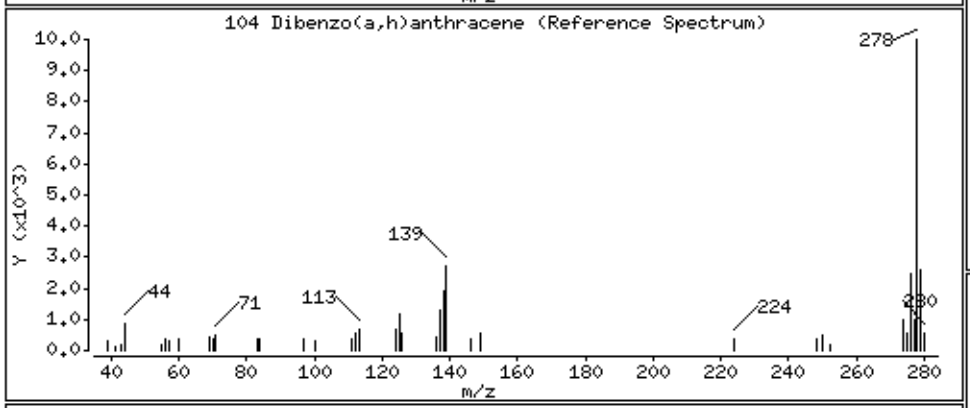
Column diameter: 0.25

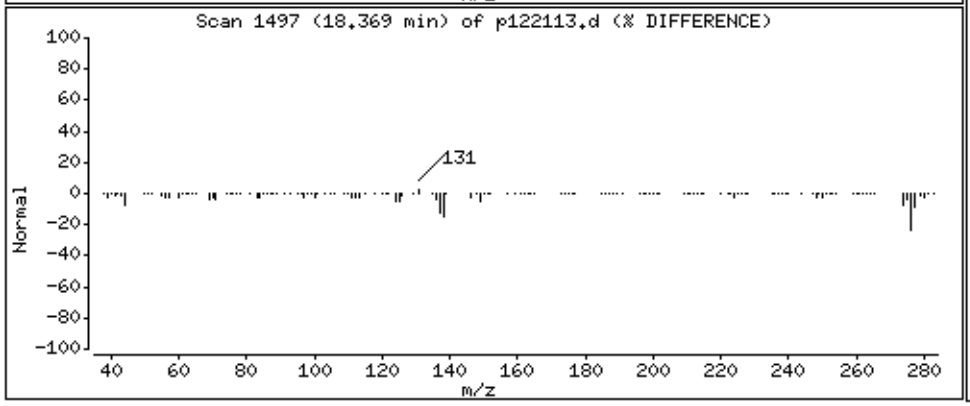
104 Dibenzo(a,h)anthracene

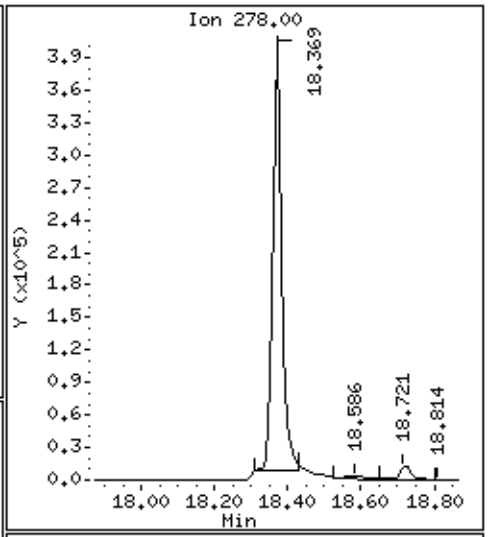
Concentration: 51.07 ug

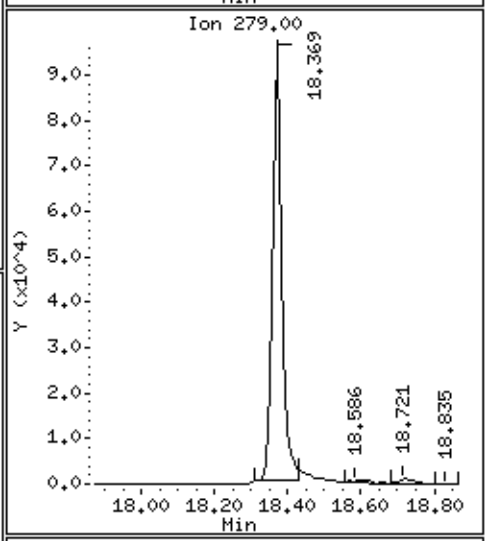


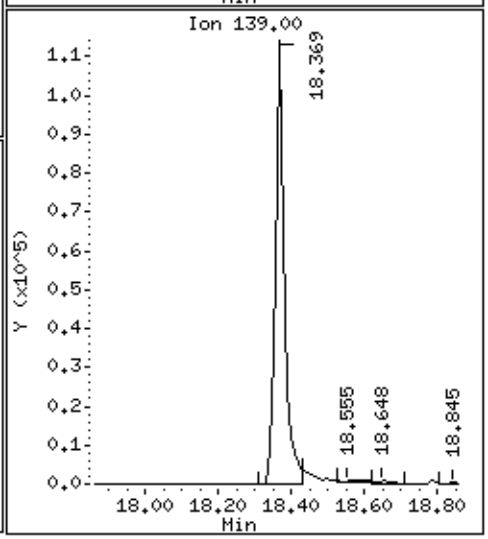












Data File: /chem/msdp.i/p21dec07.b/p122113.d

Date : 21-DEC-2007 15:19

Client ID: LCS

Instrument: msdp.i

Sample Info: ;1500-79-50;LCS

Volume Injected (uL): 1.0

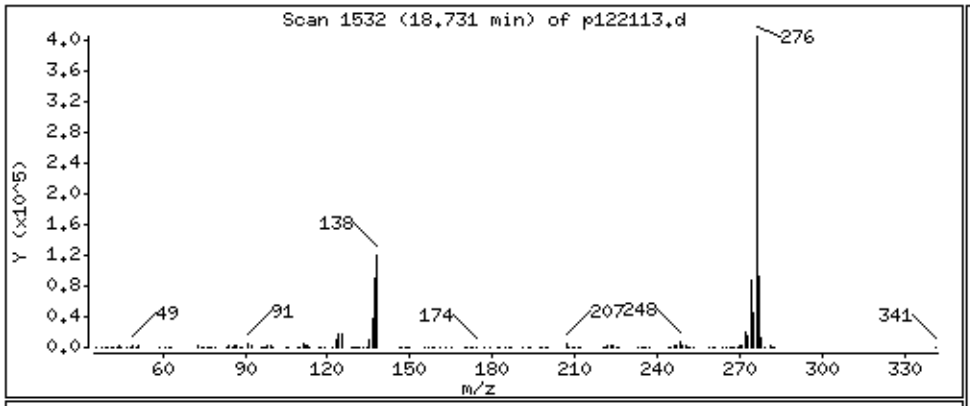
Operator: LP

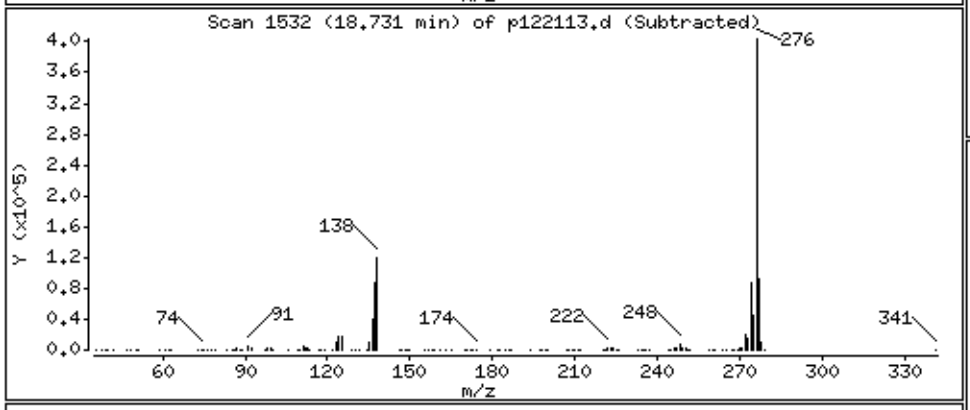
Column phase: DB-5.625

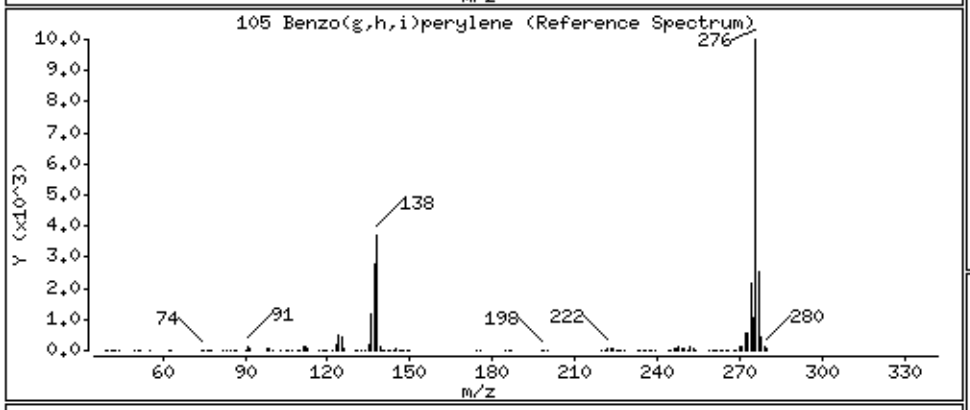
Column diameter: 0.25

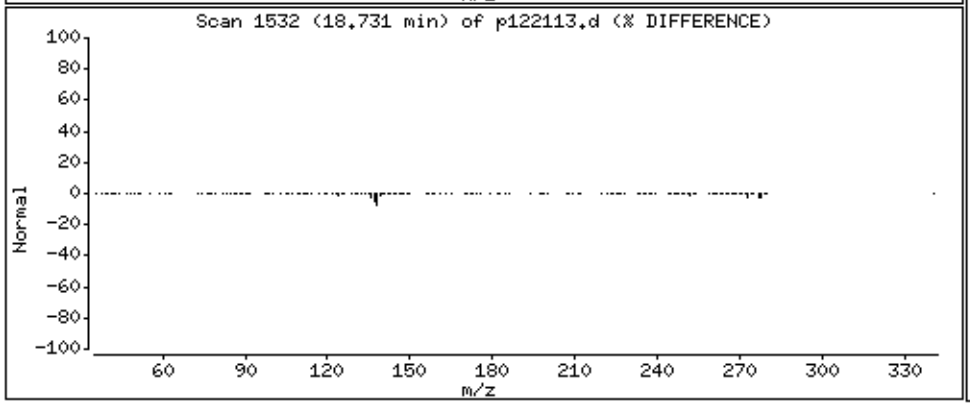
105 Benzo(g,h,i)perylene

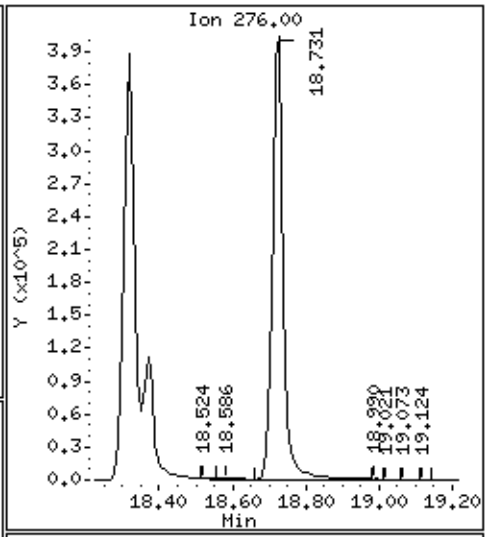
Concentration: 54.94 ug

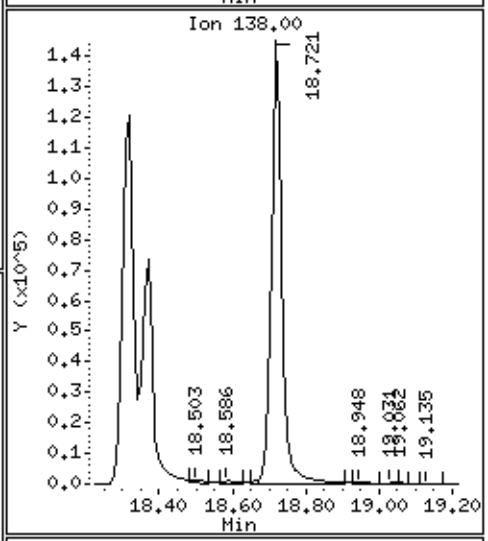


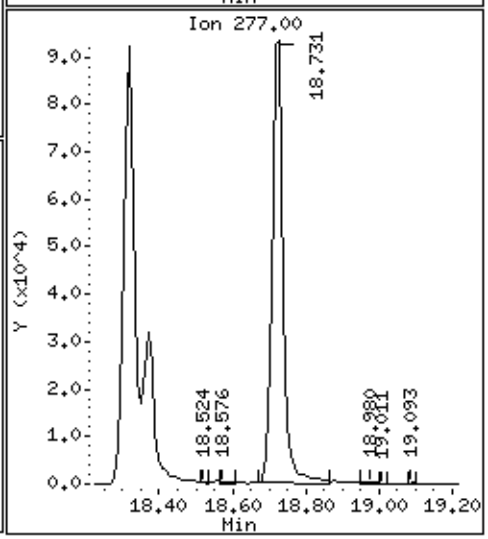












Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p16apr08.b/p041611.d
Lab Smp Id: 1500-148-1.0
Inj Date : 16-APR-2008 16:46
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-148-1.0;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p16apr08.b/bnap1221b.m
Meth Date : 17-Apr-2008 13:59 lzhang Quant Type: ISTD
Cal Date : 16-APR-2008 16:46 Cal File: p041611.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Pentabenz.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 7 1,4-Dichlorobenzene-d4	150	4.310	4.310	(1.000)	259466	40.0000	
* 27 Naphthalene-d8	136	5.956	5.966	(1.000)	684748	40.0000	
* 47 Acenaphthene-d10	164	8.171	8.181	(1.000)	382948	40.0000	
* 71 Phenanthrene-d10	188	9.941	9.941	(1.000)	613383	40.0000	
* 90 Chrysene-d12	240	13.460	13.470	(1.000)	559770	40.0000	
* 99 Perylene-d12	264	15.913	15.913	(1.000)	426808	40.0000	
149 Pentachlorobenzene	250	8.440	8.440	(1.033)	4328	1.00000	1.012

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p041611.d
Lab Smp Id: 1500-148-1.0
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p16apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 16-APR-2008
Calibration Time: 15:47
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	315188	157594	630376	259466	-17.68
27 Naphthalene-d8	717915	358958	1435830	684748	-4.62
47 Acenaphthene-d10	391485	195742	782970	382948	-2.18
71 Phenanthrene-d10	622648	311324	1245296	613383	-1.49
90 Chrysene-d12	574390	287195	1148780	559770	-2.55
99 Perylene-d12	479044	239522	958088	426808	-10.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.31	3.81	4.81	4.31	0.00
27 Naphthalene-d8	5.97	5.47	6.47	5.96	-0.17
47 Acenaphthene-d10	8.18	7.68	8.68	8.17	-0.13
71 Phenanthrene-d10	9.94	9.44	10.44	9.94	0.00
90 Chrysene-d12	13.47	12.97	13.97	13.46	-0.08
99 Perylene-d12	15.91	15.41	16.41	15.91	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdp.i/p16apr08.b/p041611.d

Date : 16-APR-2008 16:46

Client ID:

Sample Info: ;1500-148-1.0;

Volume Injected (uL): 1.0

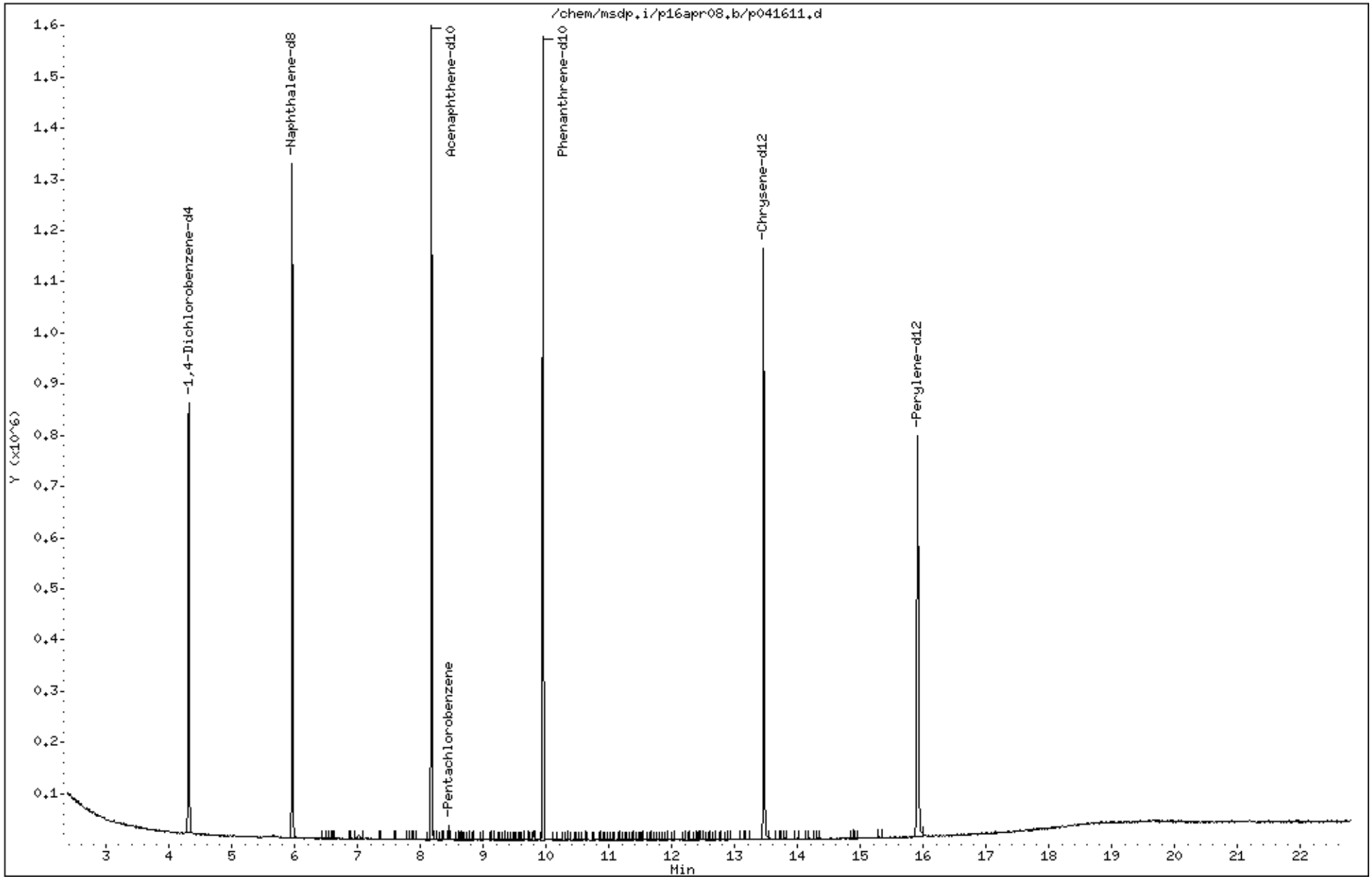
Column phase: DB-5.625

Instrument: msdp.i

Operator: LP

Column diameter: 0.25

0171



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p07mar08.b/p030704.d
Lab Smp Id: 1500-129-1.0 Client Smp ID: Level 1
Inj Date : 07-MAR-2008 12:00
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-129-1.0;Level 1
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p07mar08.b/bnap1221a.m
Meth Date : 10-Mar-2008 09:42 lpham Quant Type: ISTD
Cal Date : 07-MAR-2008 12:00 Cal File: p030704.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 82702surr.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 38 2-Fluorobiphenyl	172	7.522	7.522	(0.904)	14159	1.00000	1.074
$ 82 Terphenyl-d14	244	12.117	12.118	(0.887)	12864	1.00000	1.029
* 7 1,4-Dichlorobenzene-d4	150	4.458	4.458	(1.000)	290624	40.0000	
* 27 Naphthalene-d8	136	6.104	6.104	(1.000)	738857	40.0000	
* 47 Acenaphthene-d10	164	8.319	8.319	(1.000)	395383	40.0000	
* 71 Phenanthrene-d10	188	10.089	10.089	(1.000)	653422	40.0000	
* 90 Chrysene-d12	240	13.660	13.660	(1.000)	578794	40.0000	
* 99 Perylene-d12	264	16.133	16.144	(1.000)	450783	40.0000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030704.d
Lab Smp Id: 1500-129-1.0
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p07mar08.b/bnap1221a.m
Misc Info: ,NOTICS

Calibration Date: 07-MAR-2008
Calibration Time: 14:27
Client Smp ID: Level 1
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	278255	139128	556510	290624	4.45
27 Naphthalene-d8	720975	360488	1441950	738857	2.48
47 Acenaphthene-d10	392938	196469	785876	395383	0.62
71 Phenanthrene-d10	633676	316838	1267352	653422	3.12
90 Chrysene-d12	567063	283532	1134126	578794	2.07
99 Perylene-d12	431347	215674	862694	450783	4.51

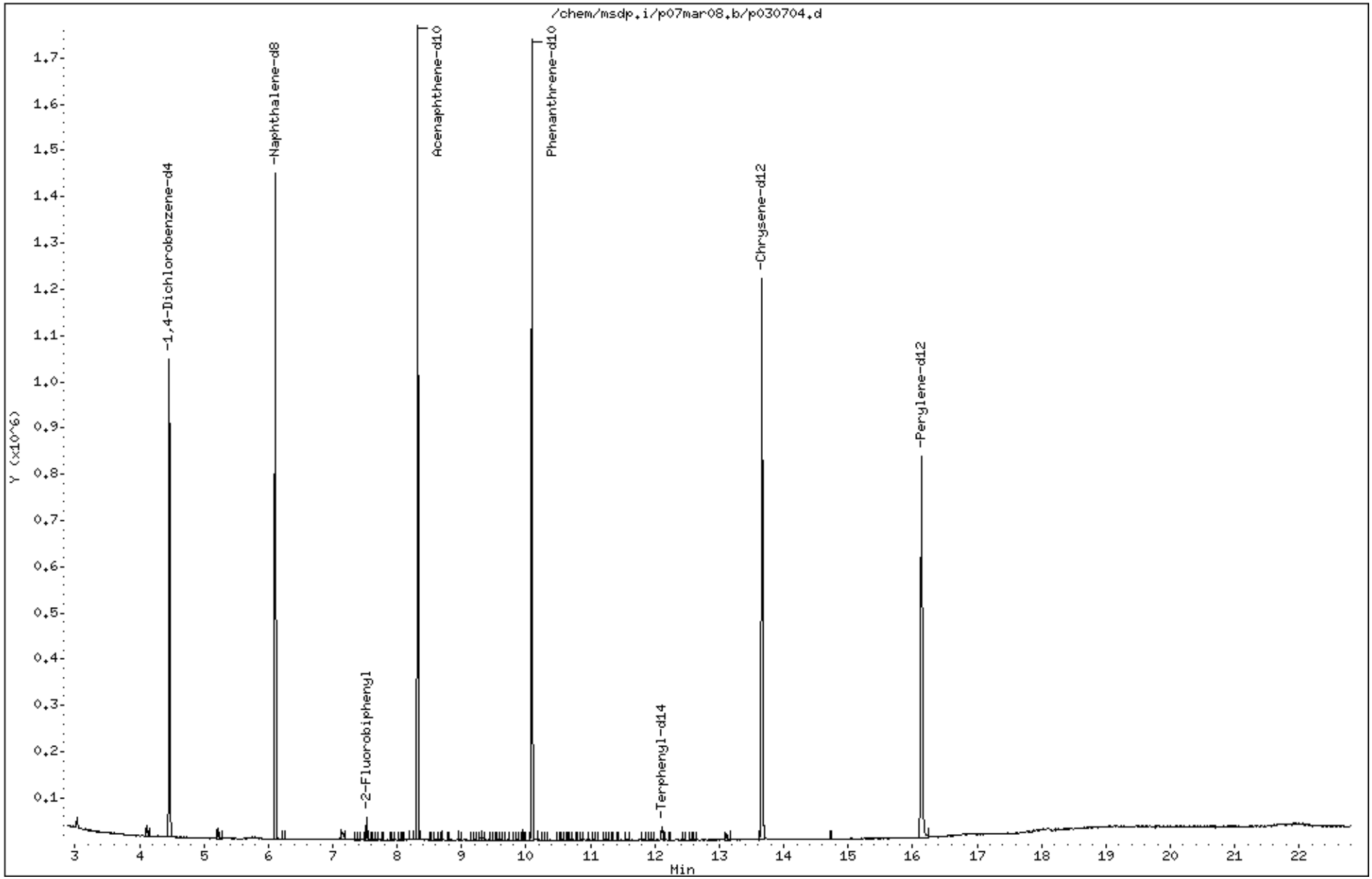
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.46	3.96	4.96	4.46	0.00
27 Naphthalene-d8	6.10	5.60	6.60	6.10	0.00
47 Acenaphthene-d10	8.32	7.82	8.82	8.32	0.00
71 Phenanthrene-d10	10.09	9.59	10.59	10.09	0.00
90 Chrysene-d12	13.66	13.16	14.16	13.66	0.00
99 Perylene-d12	16.14	15.64	16.64	16.13	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0174

Data File: /chem/msdp.i/p07mar08.b/p030704.d
Date : 07-MAR-2008 12:00
Client ID: Level 1
Sample Info: ;1500-129-1.0;Level 1
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122104.d
Lab Smp Id: 1500-101-1.0 Client Smp ID: Level 1
Inj Date : 21-DEC-2007 10:54
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-101-1.0;Level 1
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 27-Dec-2007 15:22 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 10:54 Cal File: p122104.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
$ 17 Nitrobenzene-d5	82	5.441	5.442	(0.859)	8307	1.00000	0.9394
$ 83 Fluoranthene-d10	212	11.786	11.786	(1.141)	15194	1.00000	0.8785(a)
$ 101 Benzo(a)pyrene-d12	264	16.371	16.382	(0.991)	9839	1.00000	0.7748(aH)
$ 147 Fluorene-d10	176	9.157	9.168	(1.071)	13118	1.00000	1.011
$ 148 Pyrene-d10	212	12.076	12.076	(0.863)	17855	1.00000	1.036
* 7 1,4-Dichlorobenzene-d4	150	4.686	4.686	(1.000)	312818	40.0000	
* 27 Naphthalene-d8	136	6.332	6.332	(1.000)	820707	40.0000	
* 47 Acenaphthene-d10	164	8.547	8.547	(1.000)	472746	40.0000	
* 71 Phenanthrene-d10	188	10.327	10.327	(1.000)	786881	40.0000	
* 90 Chrysene-d12	240	13.991	13.991	(1.000)	689078	40.0000	
* 99 Perylene-d12	264	16.527	16.527	(1.000)	497705	40.0000	
4 bis(2-Chloroethyl)ether	93	4.427	4.427	(0.945)	9326	1.00000	1.174
41 Aniline	93	4.334	4.334	(0.925)	14554	1.00000	1.208

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
6	1,3-Dichlorobenzene	146	4.645	4.645	(0.991)	9026	1.00000	1.180
9	1,4-Dichlorobenzene*	146	4.707	4.707	(1.004)	10156	1.00000	1.272
10	Benzyl Alcohol	108	4.914	4.914	(1.049)	5598	1.00000	1.065
11	1,2-Dichlorobenzene	146	4.945	4.945	(1.055)	8400	1.00000	1.145
13	bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.095)	16452	1.00000	1.134
15	N-Nitrosodipropylamine**	70	5.307	5.307	(1.133)	6280	1.00000	1.098
16	Hexachloroethane	117	5.338	5.338	(1.139)	3006	1.00000	1.003
18	Nitrobenzene	77	5.462	5.462	(0.863)	8529	1.00000	0.9411
19	Isophorone	82	5.773	5.773	(0.912)	14358	1.00000	0.9398
23	bis(2-Chloroethoxy)methane	93	6.094	6.104	(0.962)	10824	1.00000	1.056
26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	6421	1.00000	1.041
28	Naphthalene	128	6.352	6.352	(1.003)	26308	1.00000	1.116
30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	3431	1.00000	1.024
33	2-Methylnaphthalene	142	7.232	7.232	(1.142)	16112	1.00000	1.128
145	1-Methylnaphthalene	142	7.367	7.367	(1.163)	16288	1.00000	1.117
39	2-Chloronaphthalene	162	7.832	7.833	(0.916)	14360	1.00000	1.039
45	Acenaphthylene	152	8.350	8.350	(0.977)	20901	1.00000	0.9256
48	Acenaphthene*	154	8.578	8.588	(1.004)	14274	1.00000	1.046
51	Dibenzofuran	168	8.774	8.774	(1.027)	20837	1.00000	1.101
57	Fluorene	166	9.199	9.199	(1.076)	16141	1.00000	1.065
58	4-Chlorophenyl phenyl ether	204	9.219	9.230	(1.079)	7491	1.00000	1.074
65	4-Bromophenyl phenyl ether	248	9.809	9.809	(0.950)	3548	1.00000	0.9270
66	Hexachlorobenzene	284	9.965	9.965	(0.965)	4823	1.00000	1.101
144	Carbazole	167	10.617	10.627	(2.266)	19262	1.00000	1.052
72	Phenanthrene	178	10.348	10.348	(1.002)	24144	1.00000	1.116
73	Anthracene	178	10.399	10.410	(1.007)	19903	1.00000	0.9523
80	Fluoranthene*	202	11.807	11.817	(1.143)	20938	1.00000	1.008
81	Pyrene	202	12.097	12.107	(0.865)	22784	1.00000	1.015
88	Benzo(a)Anthracene	228	13.960	13.960	(0.998)	17827	1.00000	0.8429
91	Chrysene	228	14.022	14.032	(1.002)	21317	1.00000	0.9896
95	Benzo(b)fluoranthene	252	15.864	15.864	(0.960)	16006	1.00000	0.8166
96	Benzo(k)fluoranthene	252	15.906	15.916	(0.962)	18726	1.00000	0.8885
97	Benzo(e)pyrene	252	16.330	16.340	(0.988)	17147	1.00000	0.9219(aH)
98	Benzo(a)pyrene*	252	16.413	16.423	(0.993)	15569	1.00000	0.8365(H)
103	Indeno(1,2,3-cd)pyrene	276	18.296	18.307	(1.107)	13396	1.00000	0.7022(H)
104	Dibenzo(a,h)anthracene	278	18.359	18.369	(1.111)	13118	1.00000	0.8283
105	Benzo(g,h,i)perylene	276	18.700	18.721	(1.132)	14406	1.00000	0.8188

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122104.d
Lab Smp Id: 1500-101-1.0
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: Level 1
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	312818	7.50
27 Naphthalene-d8	673378	336689	1346756	820707	21.88
47 Acenaphthene-d10	362252	181126	724504	472746	30.50
71 Phenanthrene-d10	605762	302881	1211524	786881	29.90
90 Chrysene-d12	511454	255727	1022908	689078	34.73
99 Perylene-d12	379203	189602	758406	497705	31.25

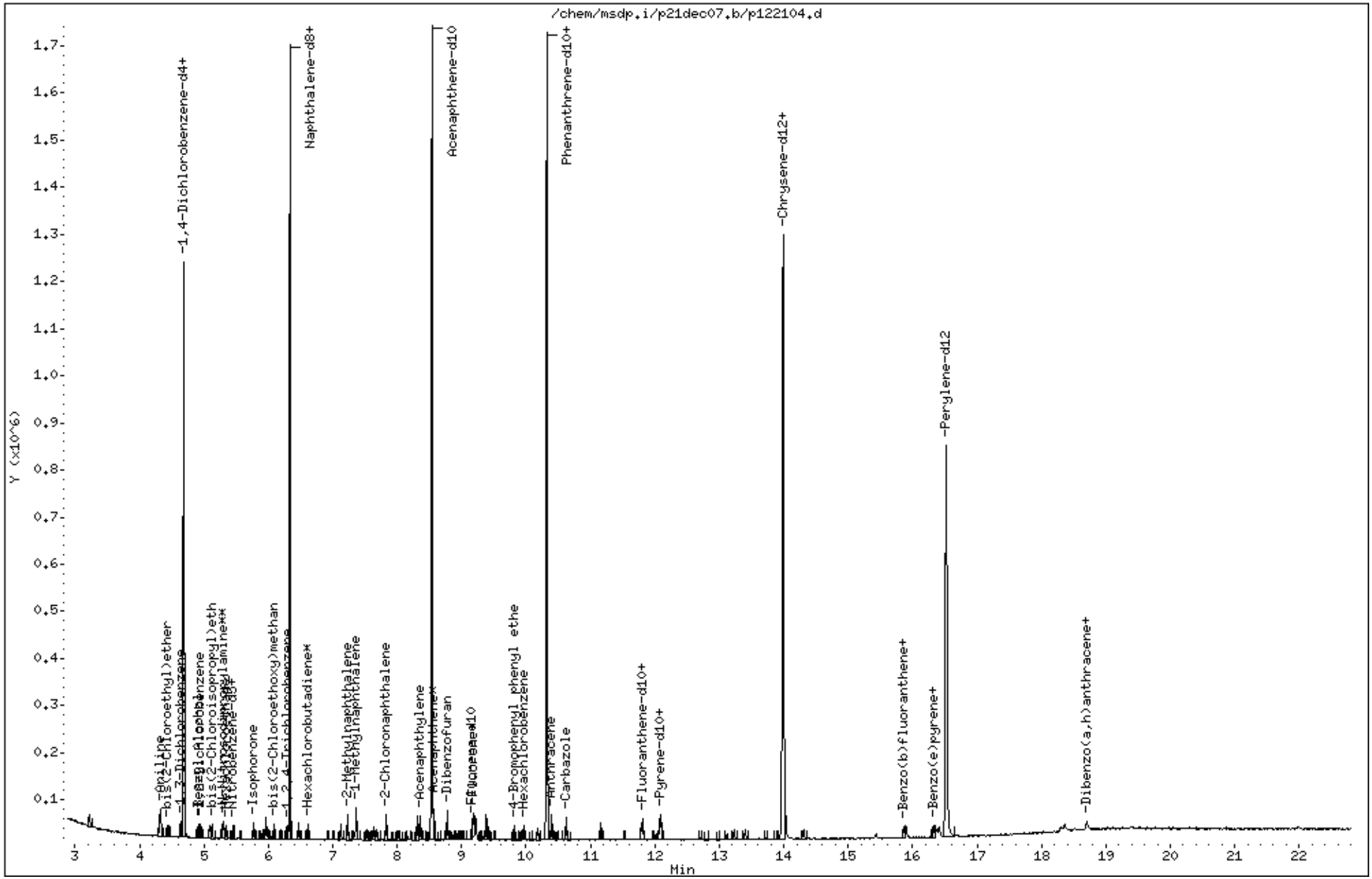
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.69	0.00
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
99 Perylene-d12	16.53	16.03	17.03	16.53	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0178

Data File: /chem/msdp.i/p21dec07.b/p122104.d
Date : 21-DEC-2007 10:54
Client ID: Level 1
Sample Info: ;1500-101-1.0;Level 1
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p07mar08.b/p030705.d
Lab Smp Id: 1500-129-5.0 Client Smp ID: Level 2
Inj Date : 07-MAR-2008 12:30
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-129-5.0;Level 2
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p07mar08.b/bnap1221a.m
Meth Date : 10-Mar-2008 09:42 lpham Quant Type: ISTD
Cal Date : 07-MAR-2008 12:30 Cal File: p030705.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 82702surr.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 38 2-Fluorobiphenyl	172	7.522	7.522	(0.904)	68617	5.00000	5.148
$ 82 Terphenyl-d14	244	12.117	12.118	(0.887)	64286	5.00000	5.248
* 7 1,4-Dichlorobenzene-d4	150	4.458	4.458	(1.000)	276831	40.0000	
* 27 Naphthalene-d8	136	6.104	6.104	(1.000)	709931	40.0000	
* 47 Acenaphthene-d10	164	8.319	8.319	(1.000)	393732	40.0000	
* 71 Phenanthrene-d10	188	10.089	10.089	(1.000)	632264	40.0000	
* 90 Chrysene-d12	240	13.660	13.660	(1.000)	552997	40.0000	
* 99 Perylene-d12	264	16.144	16.144	(1.000)	432392	40.0000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030705.d
Lab Smp Id: 1500-129-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p07mar08.b/bnap1221a.m
Misc Info: ,NOTICS

Calibration Date: 07-MAR-2008
Calibration Time: 14:27
Client Smp ID: Level 2
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	278255	139128	556510	276831	-0.51
27 Naphthalene-d8	720975	360488	1441950	709931	-1.53
47 Acenaphthene-d10	392938	196469	785876	393732	0.20
71 Phenanthrene-d10	633676	316838	1267352	632264	-0.22
90 Chrysene-d12	567063	283532	1134126	552997	-2.48
99 Perylene-d12	431347	215674	862694	432392	0.24

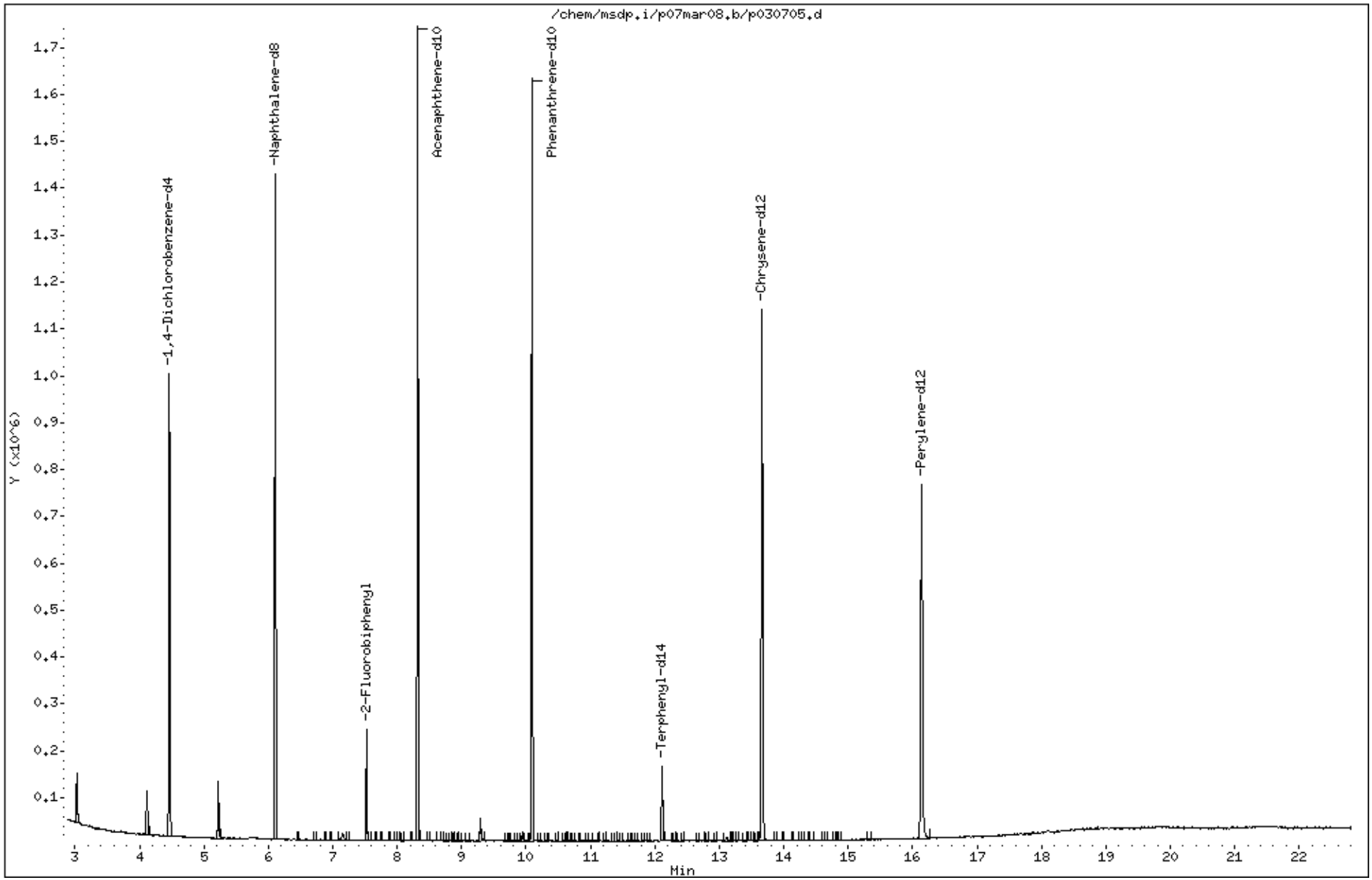
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.46	3.96	4.96	4.46	0.00
27 Naphthalene-d8	6.10	5.60	6.60	6.10	0.00
47 Acenaphthene-d10	8.32	7.82	8.82	8.32	0.00
71 Phenanthrene-d10	10.09	9.59	10.59	10.09	0.00
90 Chrysene-d12	13.66	13.16	14.16	13.66	0.00
99 Perylene-d12	16.14	15.64	16.64	16.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0181

Data File: /chem/msdp.i/p07mar08.b/p030705.d
Date : 07-MAR-2008 12:30
Client ID: Level 2
Sample Info: ;1500-129-5.0;Level 2
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122105.d
Lab Smp Id: 1500-101-5.0 Client Smp ID: Level 2
Inj Date : 21-DEC-2007 11:24
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-101-5.0;Level 2
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 21-Dec-2007 16:38 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 11:24 Cal File: p122105.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 5ng.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	3.216	3.227	(0.686)	39876	5.00000	5.434
$ 2 Phenol-d5	99	4.313	4.313	(0.920)	53869	5.00000	5.744
$ 17 Nitrobenzene-d5	82	5.441	5.442	(0.859)	43544	5.00000	5.063
$ 62 2,4,6-Tribromophenol	330	9.519	9.520	(1.114)	9053	5.00000	4.662
$ 101 Benzo(a)pyrene-d12	264	16.371	16.382	(0.991)	61038	5.00000	0.6217(aH)
$ 83 Fluoranthene-d10	212	11.786	11.786	(1.141)	85581	5.00000	5.214
$ 147 Fluorene-d10	176	9.157	9.168	(1.071)	70395	5.00000	5.639
$ 148 Pyrene-d10	212	12.076	12.076	(0.863)	90587	5.00000	5.258
* 7 1,4-Dichlorobenzene-d4	150	4.686	4.686	(1.000)	309211	40.0000	
* 27 Naphthalene-d8	136	6.331	6.332	(1.000)	792559	40.0000	
* 47 Acenaphthene-d10	164	8.546	8.547	(1.000)	449086	40.0000	
* 71 Phenanthrene-d10	188	10.327	10.327	(1.000)	746792	40.0000	
* 90 Chrysene-d12	240	13.991	13.991	(1.000)	681670	40.0000	
* 99 Perylene-d12	264	16.526	16.527	(1.000)	483493	40.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3	Phenol*	94	4.324	4.334	(0.923)	61549	5.00000	5.808
41	Aniline	93	4.334	4.334	(0.925)	71786	5.00000	5.785
4	bis(2-Chloroethyl)ether	93	4.427	4.427	(0.945)	45907	5.00000	5.656
5	2-Chlorophenol	128	4.468	4.469	(0.954)	41900	5.00000	5.565
6	1,3-Dichlorobenzene	146	4.644	4.645	(0.991)	45980	5.00000	5.854
9	1,4-Dichlorobenzene*	146	4.706	4.707	(1.004)	47456	5.00000	5.781
11	1,2-Dichlorobenzene	146	4.955	4.945	(1.057)	43306	5.00000	5.754
12	2-Methylphenol	108	5.100	5.100	(1.088)	41895	5.00000	5.734
13	bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.095)	83158	5.00000	5.612
14	4-Methylphenol	108	5.286	5.297	(1.128)	44068	5.00000	5.716
15	N-Nitrosodipropylamine**	70	5.307	5.307	(1.133)	31944	5.00000	5.461
16	Hexachloroethane	117	5.338	5.338	(1.139)	17485	5.00000	5.688
18	Nitrobenzene	77	5.462	5.462	(0.863)	47430	5.00000	5.361
19	Isophorone	82	5.773	5.773	(0.912)	76010	5.00000	5.120
20	2-Nitrophenol*	139	5.876	5.887	(0.928)	18348	5.00000	4.435
21	2,4-Dimethylphenol	122	5.969	5.970	(0.943)	38113	5.00000	5.258
23	bis(2-Chloroethoxy)methane	93	6.093	6.104	(0.962)	53515	5.00000	5.322
25	2,4-Dichlorophenol*	162	6.187	6.187	(0.977)	29343	5.00000	5.013
26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	33698	5.00000	5.539
28	Naphthalene	128	6.352	6.352	(1.003)	125627	5.00000	5.392
30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	19059	5.00000	5.760
32	4-Chloro-3-Methylphenol*	107	7.118	7.118	(1.124)	34633	5.00000	5.040
33	2-Methylnaphthalene	142	7.232	7.232	(1.142)	78321	5.00000	5.539
145	1-Methylnaphthalene	142	7.367	7.367	(1.163)	79352	5.00000	5.506
36	2,4,6-Trichlorophenol*	196	7.636	7.636	(0.893)	19437	5.00000	4.841
37	2,4,5-Trichlorophenol	196	7.677	7.677	(0.898)	20656	5.00000	4.814
39	2-Chloronaphthalene	162	7.832	7.833	(0.916)	70725	5.00000	5.297
40	2-Nitroaniline	65	8.019	8.019	(0.938)	22020	5.00000	4.185
46	3-Nitroaniline	138	8.536	8.536	(0.999)	19566	5.00000	4.704
42	Dimethylphthalate	163	8.308	8.319	(0.972)	77206	5.00000	5.295
44	2,6-Dinitrotoluene	165	8.381	8.391	(0.981)	16373	5.00000	4.642
45	Acenaphthylene	152	8.350	8.350	(0.977)	114079	5.00000	5.254
48	Acenaphthene*	154	8.577	8.588	(1.004)	72175	5.00000	5.474
50	4-Nitrophenol**	109	8.774	8.774	(1.027)	7180	5.00000	3.130
52	2,4-Dinitrotoluene	165	8.847	8.857	(1.035)	19705	5.00000	4.246
51	Dibenzofuran	168	8.774	8.774	(1.027)	102132	5.00000	5.554
56	Diethylphthalate	149	9.178	9.188	(1.074)	75322	5.00000	5.224
57	Fluorene	166	9.198	9.199	(1.076)	84291	5.00000	5.679
58	4-Chlorophenyl phenyl ether	204	9.219	9.230	(1.079)	37040	5.00000	5.477
65	4-Bromophenyl phenyl ether	248	9.809	9.809	(0.950)	20368	5.00000	5.494
66	Hexachlorobenzene	284	9.964	9.965	(0.965)	23602	5.00000	5.543
144	Carbazole	167	10.616	10.627	(2.266)	107963	5.00000	5.769
72	Phenanthrene	178	10.347	10.348	(1.002)	117729	5.00000	5.607
73	Anthracene	178	10.399	10.410	(1.007)	111376	5.00000	5.509
78	Di-n-butylphthalate	149	11.165	11.165	(1.081)	117747	5.00000	4.850
80	Fluoranthene*	202	11.807	11.817	(1.143)	108022	5.00000	5.372
81	Pyrene	202	12.097	12.107	(0.865)	123372	5.00000	5.472

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
85	Butyl benzyl phthalate	149	13.225	13.225	(0.945)	48759	5.00000	4.286
88	Benzo(a)Anthracene	228	13.960	13.960	(0.998)	103960	5.00000	4.970
91	Chrysene	228	14.032	14.032	(1.003)	115589	5.00000	5.381
93	bis(2-ethylhexyl)Phthalate	149	14.312	14.312	(1.023)	58972	5.00000	3.933
94	Di-n-octyl phthalate*	149	15.440	15.440	(0.934)	71159	5.00000	3.252
95	Benzo(b)fluoranthene	252	15.864	15.864	(0.960)	95458	5.00000	5.011
96	Benzo(k)fluoranthene	252	15.905	15.916	(0.962)	105571	5.00000	5.084
97	Benzo(e)pyrene	252	16.330	16.340	(0.988)	93100	5.00000	5.098(H)
98	Benzo(a)pyrene*	252	16.413	16.423	(0.993)	94323	5.00000	5.132
103	Indeno(1,2,3-cd)pyrene	276	18.307	18.307	(1.108)	90900	5.00000	4.901
104	Dibenzo(a,h)anthracene	278	18.358	18.369	(1.111)	80857	5.00000	5.209
105	Benzo(g,h,i)perylene	276	18.710	18.721	(1.132)	89042	5.00000	5.179
10	Benzyl Alcohol	108	4.914	4.914	(1.049)	28994	5.00000	5.407

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122105.d
Lab Smp Id: 1500-101-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: Level 2
Level: LOW
Sample Type: PUF/XAD

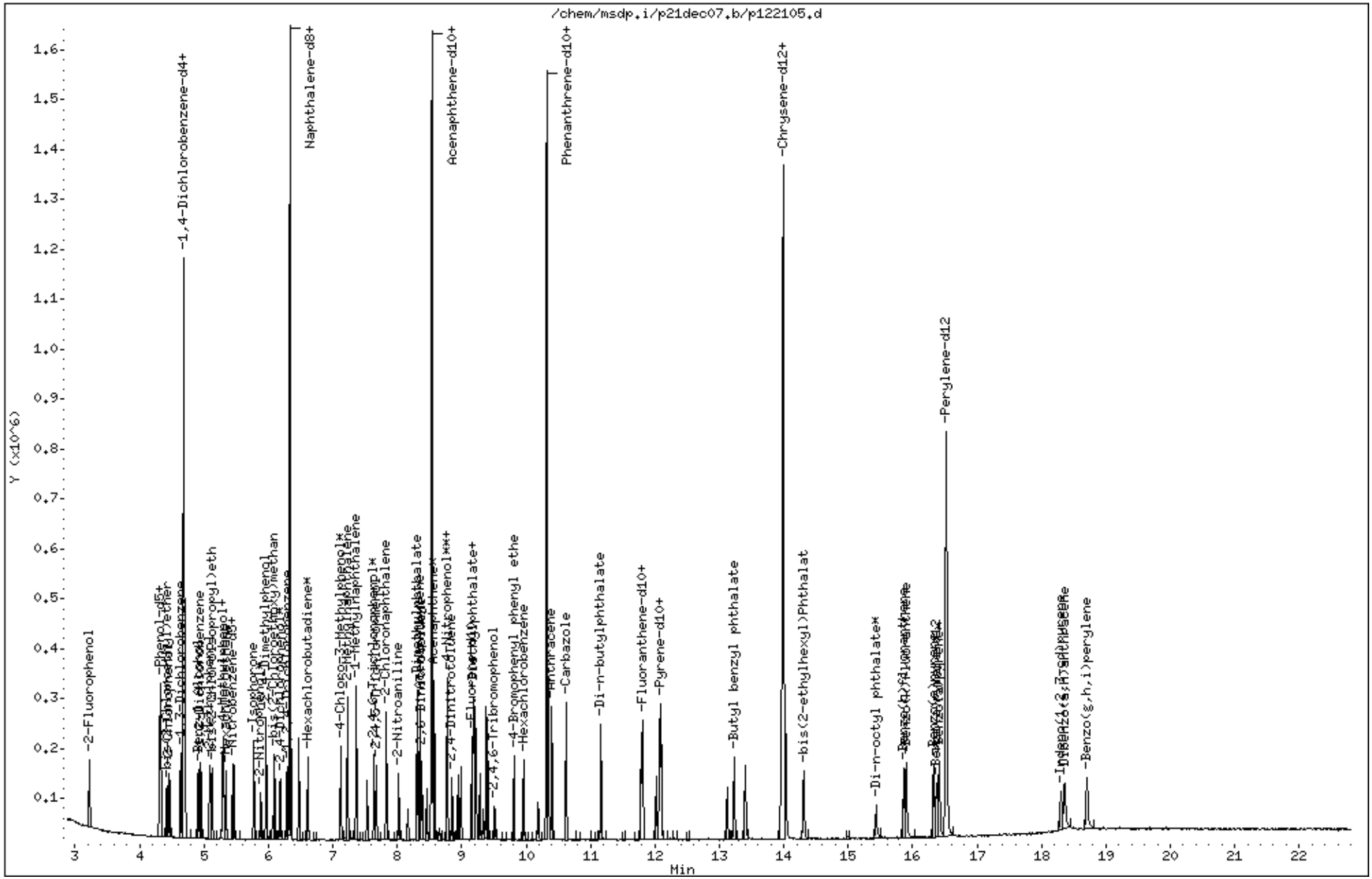
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	309211	6.27
27 Naphthalene-d8	673378	336689	1346756	792559	17.70
47 Acenaphthene-d10	362252	181126	724504	449086	23.97
71 Phenanthrene-d10	605762	302881	1211524	746792	23.28
90 Chrysene-d12	511454	255727	1022908	681670	33.28
99 Perylene-d12	379203	189602	758406	483493	27.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.69	-0.01
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
99 Perylene-d12	16.53	16.03	17.03	16.53	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdp.i/p21dec07.b/p122105.d
Date : 21-DEC-2007 11:24
Client ID: Level 2
Sample Info: ;1500-101-5.0;Level 2
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



0186

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p07mar08.b/p030706.d
Lab Smp Id: 1500-129-10 Client Smp ID: Level 3
Inj Date : 07-MAR-2008 12:59
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-129-10;Level 3
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p07mar08.b/bnap1221a.m
Meth Date : 10-Mar-2008 09:42 lpham Quant Type: ISTD
Cal Date : 07-MAR-2008 12:59 Cal File: p030706.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 82702surr.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 38 2-Fluorobiphenyl	172	7.522	7.522	(0.904)	131512	10.0000	10.18
$ 82 Terphenyl-d14	244	12.118	12.118	(0.887)	126356	10.0000	10.21
* 7 1,4-Dichlorobenzene-d4	150	4.458	4.458	(1.000)	273084	40.0000	
* 27 Naphthalene-d8	136	6.104	6.104	(1.000)	713139	40.0000	
* 47 Acenaphthene-d10	164	8.319	8.319	(1.000)	379192	40.0000	
* 71 Phenanthrene-d10	188	10.089	10.089	(1.000)	613605	40.0000	
* 90 Chrysene-d12	240	13.660	13.660	(1.000)	554509	40.0000	
* 99 Perylene-d12	264	16.144	16.144	(1.000)	428267	40.0000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030706.d
Lab Smp Id: 1500-129-10
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p07mar08.b/bnap1221a.m
Misc Info: ,NOTICS

Calibration Date: 07-MAR-2008
Calibration Time: 14:27
Client Smp ID: Level 3
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	278255	139128	556510	273084	-1.86
27 Naphthalene-d8	720975	360488	1441950	713139	-1.09
47 Acenaphthene-d10	392938	196469	785876	379192	-3.50
71 Phenanthrene-d10	633676	316838	1267352	613605	-3.17
90 Chrysene-d12	567063	283532	1134126	554509	-2.21
99 Perylene-d12	431347	215674	862694	428267	-0.71

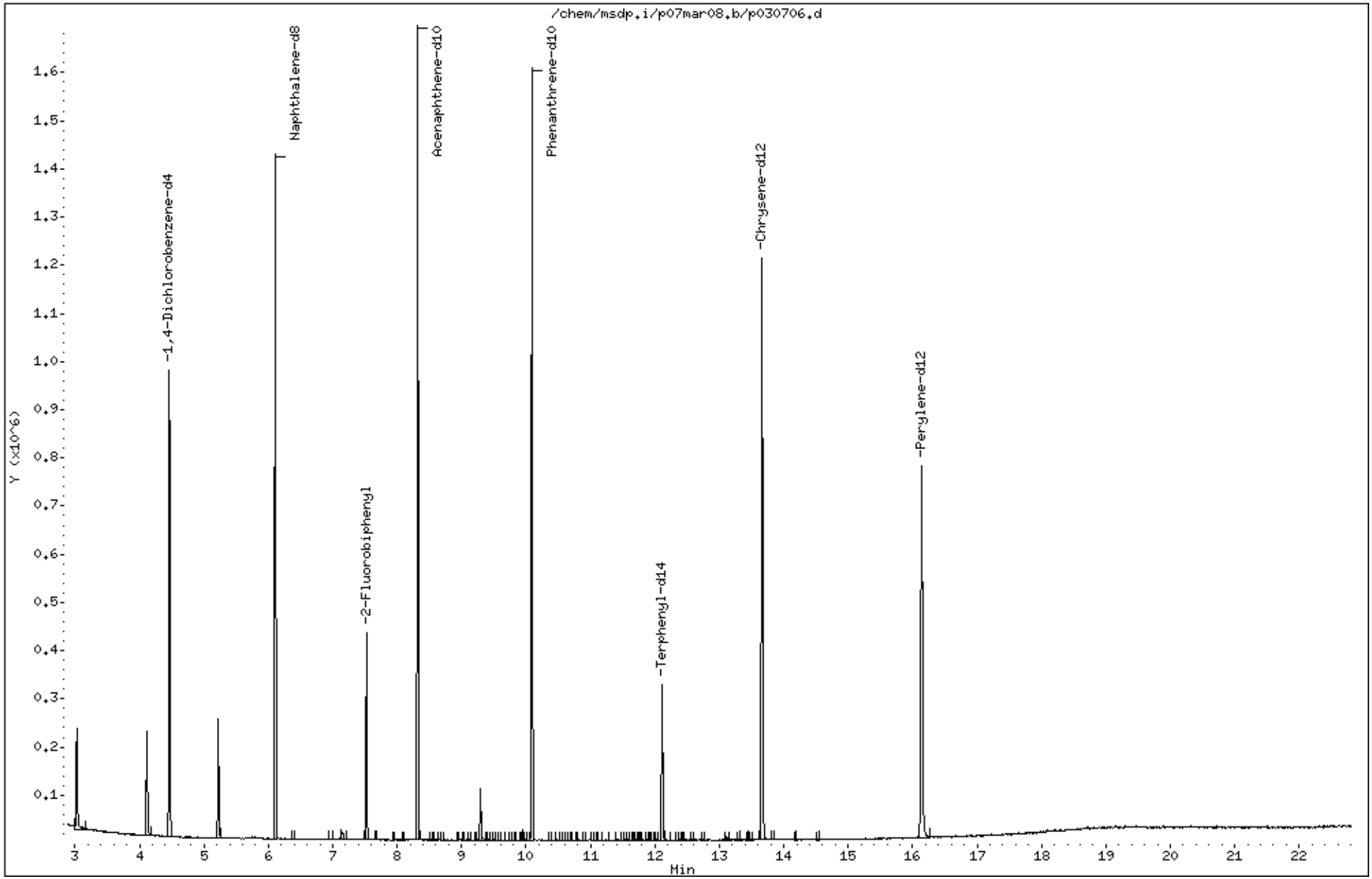
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.46	3.96	4.96	4.46	0.00
27 Naphthalene-d8	6.10	5.60	6.60	6.10	0.00
47 Acenaphthene-d10	8.32	7.82	8.82	8.32	0.00
71 Phenanthrene-d10	10.09	9.59	10.59	10.09	0.00
90 Chrysene-d12	13.66	13.16	14.16	13.66	0.00
99 Perylene-d12	16.14	15.64	16.64	16.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0189

Data File: /chem/msdp.i/p07mar08.b/p030706.d
Date : 07-MAR-2008 12:59
Client ID: Level 3
Sample Info: ;1500-129-10;Level 3
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122106.d
Lab Smp Id: 1500-101-10 Client Smp ID: Level 3
Inj Date : 21-DEC-2007 11:53
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-101-10;Level 3
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 21-Dec-2007 16:38 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 11:53 Cal File: p122106.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10ng.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	3.216	3.227	(0.686)	83341	10.0000	11.34
$ 2 Phenol-d5	99	4.313	4.313	(0.920)	106126	10.0000	11.30
$ 17 Nitrobenzene-d5	82	5.442	5.442	(0.859)	91511	10.0000	10.68
$ 62 2,4,6-Tribromophenol	330	9.520	9.520	(1.114)	19655	10.0000	10.27
$ 101 Benzo(a)pyrene-d12	264	16.371	16.382	(0.991)	134602	10.0000	1.449(H)
$ 83 Fluoranthene-d10	212	11.786	11.786	(1.141)	174434	10.0000	10.55
$ 147 Fluorene-d10	176	9.157	9.168	(1.071)	128084	10.0000	10.41
$ 148 Pyrene-d10	212	12.076	12.076	(0.863)	184486	10.0000	10.60
* 7 1,4-Dichlorobenzene-d4	150	4.686	4.686	(1.000)	309728	40.0000	
* 27 Naphthalene-d8	136	6.332	6.332	(1.000)	789823	40.0000	
* 47 Acenaphthene-d10	164	8.547	8.547	(1.000)	442681	40.0000	
* 71 Phenanthrene-d10	188	10.327	10.327	(1.000)	752187	40.0000	
* 90 Chrysene-d12	240	13.991	13.991	(1.000)	688426	40.0000	
* 99 Perylene-d12	264	16.527	16.527	(1.000)	485445	40.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3	Phenol*	94	4.324	4.334	(0.923)	125509	10.0000	11.82
41	Aniline	93	4.334	4.334	(0.925)	141335	10.0000	11.37
4	bis(2-Chloroethyl)ether	93	4.427	4.427	(0.945)	93012	10.0000	11.44
5	2-Chlorophenol	128	4.458	4.469	(0.951)	86058	10.0000	11.41
6	1,3-Dichlorobenzene	146	4.645	4.645	(0.991)	89114	10.0000	11.33
9	1,4-Dichlorobenzene*	146	4.707	4.707	(1.004)	93417	10.0000	11.36
11	1,2-Dichlorobenzene	146	4.945	4.945	(1.055)	86032	10.0000	11.41
12	2-Methylphenol	108	5.100	5.100	(1.088)	82276	10.0000	11.24
13	bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.095)	166128	10.0000	11.19
14	4-Methylphenol	108	5.286	5.297	(1.128)	86834	10.0000	11.24
15	N-Nitrosodipropylamine**	70	5.307	5.307	(1.133)	64748	10.0000	11.05
16	Hexachloroethane	117	5.338	5.338	(1.139)	36096	10.0000	11.72
18	Nitrobenzene	77	5.462	5.462	(0.863)	92988	10.0000	10.55
19	Isophorone	82	5.773	5.773	(0.912)	153305	10.0000	10.36
20	2-Nitrophenol*	139	5.876	5.887	(0.928)	40582	10.0000	9.844
21	2,4-Dimethylphenol	122	5.969	5.970	(0.943)	78891	10.0000	10.92
23	bis(2-Chloroethoxy)methane	93	6.094	6.104	(0.962)	107385	10.0000	10.72
25	2,4-Dichlorophenol*	162	6.187	6.187	(0.977)	62492	10.0000	10.71
26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	65984	10.0000	10.88
28	Naphthalene	128	6.352	6.352	(1.003)	248665	10.0000	10.71
29	4-Chloroaniline	127	6.477	6.477	(1.023)	101860	10.0000	10.64
30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	36009	10.0000	10.92
32	4-Chloro-3-Methylphenol*	107	7.118	7.118	(1.124)	72522	10.0000	10.59
33	2-Methylnaphthalene	142	7.232	7.232	(1.142)	156047	10.0000	11.07
145	1-Methylnaphthalene	142	7.367	7.367	(1.163)	158028	10.0000	11.00
36	2,4,6-Trichlorophenol*	196	7.636	7.636	(0.893)	39527	10.0000	9.987
37	2,4,5-Trichlorophenol	196	7.677	7.677	(0.898)	41902	10.0000	9.907
39	2-Chloronaphthalene	162	7.833	7.833	(0.916)	140595	10.0000	10.68
40	2-Nitroaniline	65	8.019	8.019	(0.938)	49446	10.0000	9.533
46	3-Nitroaniline	138	8.536	8.536	(0.999)	41711	10.0000	10.17
42	Dimethylphthalate	163	8.309	8.319	(0.972)	154526	10.0000	10.75
44	2,6-Dinitrotoluene	165	8.381	8.391	(0.981)	34112	10.0000	9.812
45	Acenaphthylene	152	8.350	8.350	(0.977)	228570	10.0000	10.68
48	Acenaphthene*	154	8.578	8.588	(1.004)	139473	10.0000	10.73
52	2,4-Dinitrotoluene	165	8.847	8.857	(1.035)	45106	10.0000	9.861
51	Dibenzofuran	168	8.774	8.774	(1.027)	200073	10.0000	11.04
56	Diethylphthalate	149	9.188	9.188	(1.075)	153101	10.0000	10.77
57	Fluorene	166	9.199	9.199	(1.076)	164351	10.0000	11.23
58	4-Chlorophenyl phenyl ether	204	9.219	9.230	(1.079)	69727	10.0000	10.46
59	4-Nitroaniline	138	9.282	9.292	(1.086)	43802	10.0000	9.504
60	4,6-Dinitro-2-methylphenol	198	9.333	9.344	(0.904)	19164	10.0000	7.824
61	N-nitrosodiphenylamine*	169	9.375	9.385	(0.908)	134983	10.0000	10.93
65	4-Bromophenyl phenyl ether	248	9.809	9.809	(0.950)	40448	10.0000	10.83
66	Hexachlorobenzene	284	9.965	9.965	(0.965)	46665	10.0000	10.88
144	Carbazole	167	10.617	10.627	(2.266)	218792	10.0000	11.67
72	Phenanthrene	178	10.348	10.348	(1.002)	228825	10.0000	10.82
73	Anthracene	178	10.399	10.410	(1.007)	216284	10.0000	10.62

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
78	Di-n-butylphthalate	149	11.165	11.165	(1.081)	251294	10.0000	10.28
80	Fluoranthene*	202	11.807	11.817	(1.143)	228131	10.0000	11.26
81	Pyrene	202	12.097	12.107	(0.865)	244312	10.0000	10.73
85	Butyl benzyl phthalate	149	13.225	13.225	(0.945)	111275	10.0000	9.686
88	Benzo(a)Anthracene	228	13.960	13.960	(0.998)	221486	10.0000	10.48
91	Chrysene	228	14.032	14.032	(1.003)	232239	10.0000	10.71
93	bis(2-ethylhexyl)Phthalate	149	14.312	14.312	(1.023)	138060	10.0000	9.118
94	Di-n-octyl phthalate*	149	15.440	15.440	(0.934)	190180	10.0000	8.658
95	Benzo(b)fluoranthene	252	15.864	15.864	(0.960)	205549	10.0000	10.75
96	Benzo(k)fluoranthene	252	15.906	15.916	(0.962)	235797	10.0000	11.31(H)
97	Benzo(e)pyrene	252	16.330	16.340	(0.988)	200063	10.0000	10.91(H)
98	Benzo(a)pyrene*	252	16.413	16.423	(0.993)	205595	10.0000	11.14
103	Indeno(1,2,3-cd)pyrene	276	18.307	18.307	(1.108)	201015	10.0000	10.79
104	Dibenzo(a,h)anthracene	278	18.359	18.369	(1.111)	174213	10.0000	11.18
105	Benzo(g,h,i)perylene	276	18.711	18.721	(1.132)	184000	10.0000	10.66
10	Benzyl Alcohol	108	4.914	4.914	(1.049)	59011	10.0000	10.99

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122106.d
Lab Smp Id: 1500-101-10
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: Level 3
Level: LOW
Sample Type: PUF/XAD

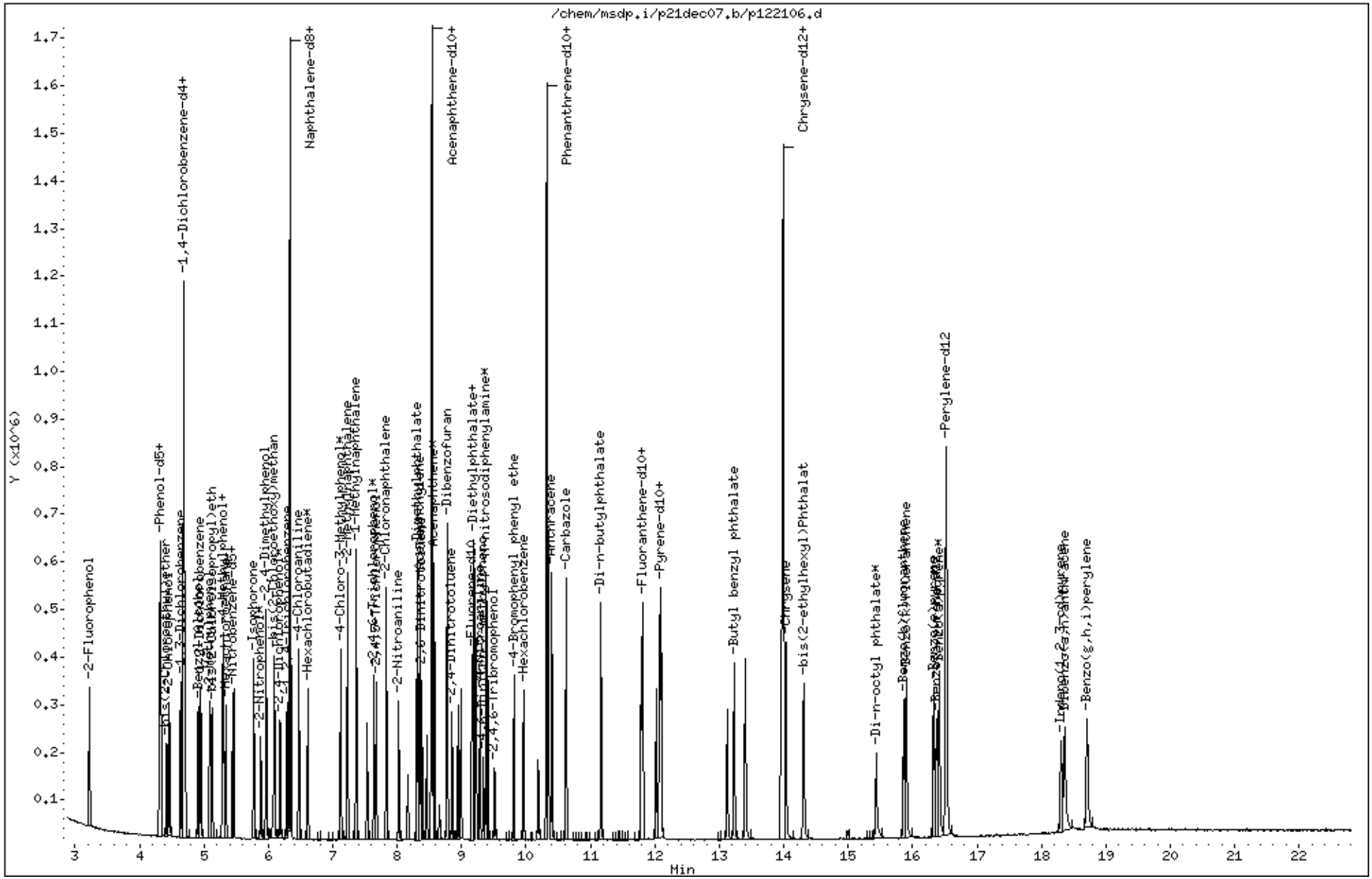
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	309728	6.44
27 Naphthalene-d8	673378	336689	1346756	789823	17.29
47 Acenaphthene-d10	362252	181126	724504	442681	22.20
71 Phenanthrene-d10	605762	302881	1211524	752187	24.17
90 Chrysene-d12	511454	255727	1022908	688426	34.60
99 Perylene-d12	379203	189602	758406	485445	28.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.69	0.00
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
99 Perylene-d12	16.53	16.03	17.03	16.53	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdp.i/p21dec07.b/p122106.d
Date : 21-DEC-2007 11:53
Client ID: Level 3
Sample Info: ;1500-101-10;Level 3
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p07mar08.b/p030707.d
Lab Smp Id: 1500-129-20 Client Smp ID: Level 4
Inj Date : 07-MAR-2008 13:28
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-129-20;Level 4
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p07mar08.b/bnap1221a.m
Meth Date : 10-Mar-2008 09:42 lpham Quant Type: ISTD
Cal Date : 07-MAR-2008 13:28 Cal File: p030707.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 82702surr.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 38 2-Fluorobiphenyl	172	7.522	7.522	(0.904)	262894	20.0000	19.77
$ 82 Terphenyl-d14	244	12.117	12.118	(0.887)	254488	20.0000	20.14
* 7 1,4-Dichlorobenzene-d4	150	4.458	4.458	(1.000)	286194	40.0000	
* 27 Naphthalene-d8	136	6.104	6.104	(1.000)	726820	40.0000	
* 47 Acenaphthene-d10	164	8.319	8.319	(1.000)	391415	40.0000	
* 71 Phenanthrene-d10	188	10.089	10.089	(1.000)	633671	40.0000	
* 90 Chrysene-d12	240	13.659	13.660	(1.000)	565164	40.0000	
* 99 Perylene-d12	264	16.144	16.144	(1.000)	437225	40.0000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030707.d
Lab Smp Id: 1500-129-20
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p07mar08.b/bnap1221a.m
Misc Info: ,NOTICS

Calibration Date: 07-MAR-2008
Calibration Time: 14:27
Client Smp ID: Level 4
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	278255	139128	556510	286194	2.85
27 Naphthalene-d8	720975	360488	1441950	726820	0.81
47 Acenaphthene-d10	392938	196469	785876	391415	-0.39
71 Phenanthrene-d10	633676	316838	1267352	633671	0.00
90 Chrysene-d12	567063	283532	1134126	565164	-0.33
99 Perylene-d12	431347	215674	862694	437225	1.36

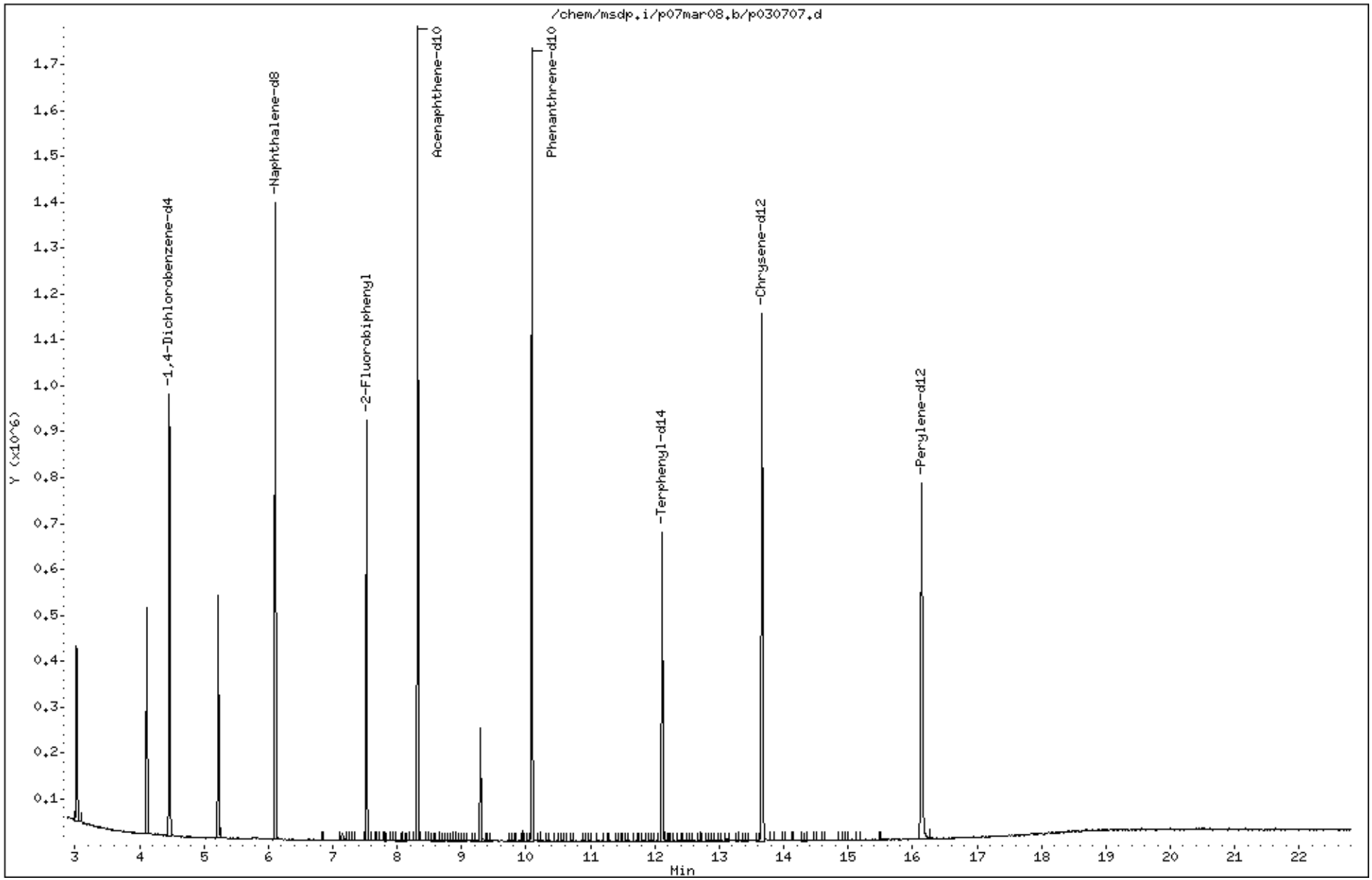
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.46	3.96	4.96	4.46	-0.01
27 Naphthalene-d8	6.10	5.60	6.60	6.10	0.00
47 Acenaphthene-d10	8.32	7.82	8.82	8.32	0.00
71 Phenanthrene-d10	10.09	9.59	10.59	10.09	0.00
90 Chrysene-d12	13.66	13.16	14.16	13.66	0.00
99 Perylene-d12	16.14	15.64	16.64	16.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0197

Data File: /chem/msdp.i/p07mar08.b/p030707.d
Date : 07-MAR-2008 13:28
Client ID: Level 4
Sample Info: ;1500-129-20;Level 4
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122107.d
Lab Smp Id: 1500-101-20 Client Smp ID: Level 4
Inj Date : 21-DEC-2007 12:23
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-101-20;Level 4
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 21-Dec-2007 16:38 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 12:23 Cal File: p122107.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 20ng.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	3.216	3.227	(0.686)	156063	20.0000	21.83
$ 2 Phenol-d5	99	4.313	4.313	(0.920)	204077	20.0000	22.33
$ 17 Nitrobenzene-d5	82	5.442	5.442	(0.859)	171164	20.0000	20.28
$ 62 2,4,6-Tribromophenol	330	9.520	9.520	(1.114)	38973	20.0000	20.92
$ 101 Benzo(a)pyrene-d12	264	16.382	16.382	(0.991)	269923	20.0000	2.891(H)
$ 83 Fluoranthene-d10	212	11.786	11.786	(1.141)	332530	20.0000	21.05
$ 147 Fluorene-d10	176	9.168	9.168	(1.073)	241186	20.0000	20.13
$ 148 Pyrene-d10	212	12.076	12.076	(0.863)	342986	20.0000	19.98
* 7 1,4-Dichlorobenzene-d4	150	4.686	4.686	(1.000)	301295	40.0000	
* 27 Naphthalene-d8	136	6.332	6.332	(1.000)	777956	40.0000	
* 47 Acenaphthene-d10	164	8.547	8.547	(1.000)	430887	40.0000	
* 71 Phenanthrene-d10	188	10.327	10.327	(1.000)	718796	40.0000	
* 90 Chrysene-d12	240	13.991	13.991	(1.000)	679212	40.0000	
* 99 Perylene-d12	264	16.527	16.527	(1.000)	497496	40.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3	Phenol*	94	4.324	4.334	(0.923)	232038	20.0000	22.47
41	Aniline	93	4.334	4.334	(0.925)	261447	20.0000	21.62
4	bis(2-Chloroethyl)ether	93	4.427	4.427	(0.945)	168399	20.0000	21.29
5	2-Chlorophenol	128	4.469	4.469	(0.954)	160987	20.0000	21.94
6	1,3-Dichlorobenzene	146	4.645	4.645	(0.991)	162843	20.0000	21.28
9	1,4-Dichlorobenzene*	146	4.707	4.707	(1.004)	169312	20.0000	21.17
11	1,2-Dichlorobenzene	146	4.945	4.945	(1.055)	157283	20.0000	21.44
12	2-Methylphenol	108	5.100	5.100	(1.088)	153879	20.0000	21.62
13	bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.095)	304157	20.0000	21.06
14	4-Methylphenol	108	5.286	5.297	(1.128)	161766	20.0000	21.54
15	N-Nitrosodipropylamine**	70	5.307	5.307	(1.133)	124259	20.0000	21.80
16	Hexachloroethane	117	5.338	5.338	(1.139)	65082	20.0000	21.73
18	Nitrobenzene	77	5.462	5.462	(0.863)	176185	20.0000	20.29
19	Isophorone	82	5.773	5.773	(0.912)	299049	20.0000	20.52
20	2-Nitrophenol*	139	5.876	5.887	(0.928)	81187	20.0000	19.99
21	2,4-Dimethylphenol	122	5.969	5.970	(0.943)	146185	20.0000	20.55
23	bis(2-Chloroethoxy)methane	93	6.094	6.104	(0.962)	199238	20.0000	20.19
24	Benzoic Acid	122	6.104	6.135	(0.964)	74298	20.0000	16.82
25	2,4-Dichlorophenol*	162	6.187	6.187	(0.977)	119535	20.0000	20.81
26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	122651	20.0000	20.54
28	Naphthalene	128	6.352	6.352	(1.003)	465566	20.0000	20.36
29	4-Chloroaniline	127	6.477	6.477	(1.023)	199243	20.0000	21.14
30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	64210	20.0000	19.77
32	4-Chloro-3-Methylphenol*	107	7.118	7.118	(1.124)	138881	20.0000	20.59
33	2-Methylnaphthalene	142	7.232	7.232	(1.142)	276187	20.0000	19.90
145	1-Methylnaphthalene	142	7.367	7.367	(1.163)	288156	20.0000	20.37
35	Hexachlorocyclopentadiene**	237	7.532	7.532	(0.881)	67740	20.0000	19.23
36	2,4,6-Trichlorophenol*	196	7.636	7.636	(0.893)	80867	20.0000	20.99
37	2,4,5-Trichlorophenol	196	7.677	7.677	(0.898)	83720	20.0000	20.34
39	2-Chloronaphthalene	162	7.832	7.833	(0.916)	258336	20.0000	20.16
40	2-Nitroaniline	65	8.019	8.019	(0.938)	99386	20.0000	19.68
46	3-Nitroaniline	138	8.536	8.536	(0.999)	81550	20.0000	20.44
42	Dimethylphthalate	163	8.319	8.319	(0.973)	286269	20.0000	20.46
44	2,6-Dinitrotoluene	165	8.381	8.391	(0.981)	70766	20.0000	20.91
45	Acenaphthylene	152	8.350	8.350	(0.977)	434474	20.0000	20.85
48	Acenaphthene*	154	8.578	8.588	(1.004)	258532	20.0000	20.44
49	2,4-Dinitrophenol**	184	8.660	8.661	(1.013)	28840	20.0000	15.68
50	4-Nitrophenol**	109	8.774	8.774	(1.027)	42623	20.0000	19.36
52	2,4-Dinitrotoluene	165	8.857	8.857	(1.036)	89173	20.0000	20.03
51	Dibenzofuran	168	8.774	8.774	(1.027)	361979	20.0000	20.52
56	Diethylphthalate	149	9.188	9.188	(1.075)	291737	20.0000	21.09
57	Fluorene	166	9.199	9.199	(1.076)	298660	20.0000	20.97
58	4-Chlorophenyl phenyl ether	204	9.219	9.230	(1.079)	131815	20.0000	20.32
59	4-Nitroaniline	138	9.281	9.292	(1.086)	87700	20.0000	19.55
60	4,6-Dinitro-2-methylphenol	198	9.333	9.344	(0.904)	44046	20.0000	18.82
61	N-nitrosodiphenylamine*	169	9.375	9.385	(0.908)	255979	20.0000	21.70
65	4-Bromophenyl phenyl ether	248	9.809	9.809	(0.950)	76805	20.0000	21.52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66	Hexachlorobenzene	284	9.965	9.965	(0.965)	84850	20.0000	20.70
144	Carbazole	167	10.617	10.627	(2.266)	407467	20.0000	22.34
68	Pentachlorophenol*	266	10.192	10.192	(0.987)	47320	20.0000	20.05
72	Phenanthrene	178	10.348	10.348	(1.002)	426100	20.0000	21.08
73	Anthracene	178	10.399	10.410	(1.007)	419643	20.0000	21.56
78	Di-n-butylphthalate	149	11.165	11.165	(1.081)	485251	20.0000	20.77
80	Fluoranthene*	202	11.807	11.817	(1.143)	414993	20.0000	21.44
81	Pyrene	202	12.097	12.107	(0.865)	460220	20.0000	20.48
85	Butyl benzyl phthalate	149	13.225	13.225	(0.945)	230480	20.0000	20.33
89	3 3'-Dichlorobenzidine	252	14.001	14.001	(1.001)	141725	20.0000	19.58
88	Benzo(a)Anthracene	228	13.960	13.960	(0.998)	430591	20.0000	20.66
91	Chrysene	228	14.032	14.032	(1.003)	434028	20.0000	20.28
93	bis(2-ethylhexyl)Phthalate	149	14.312	14.312	(1.023)	296432	20.0000	19.84
94	Di-n-octyl phthalate*	149	15.440	15.440	(0.934)	448489	20.0000	19.92
95	Benzo(b)fluoranthene	252	15.864	15.864	(0.960)	397438	20.0000	20.28
96	Benzo(k)fluoranthene	252	15.906	15.916	(0.962)	460721	20.0000	21.56(H)
97	Benzo(e)pyrene	252	16.330	16.340	(0.988)	391619	20.0000	20.84(H)
98	Benzo(a)pyrene*	252	16.423	16.423	(0.994)	403044	20.0000	21.31
103	Indeno(1,2,3-cd)pyrene	276	18.307	18.307	(1.108)	404960	20.0000	21.22(MH)
104	Dibenzo(a,h)anthracene	278	18.359	18.369	(1.111)	330727	20.0000	20.71
105	Benzo(g,h,i)perylene	276	18.711	18.721	(1.132)	375155	20.0000	21.21
10	Benzyl Alcohol	108	4.914	4.914	(1.049)	114057	20.0000	21.83

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122107.d
Lab Smp Id: 1500-101-20
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: Level 4
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	301295	3.54
27 Naphthalene-d8	673378	336689	1346756	777956	15.53
47 Acenaphthene-d10	362252	181126	724504	430887	18.95
71 Phenanthrene-d10	605762	302881	1211524	718796	18.66
90 Chrysene-d12	511454	255727	1022908	679212	32.80
99 Perylene-d12	379203	189602	758406	497496	31.20

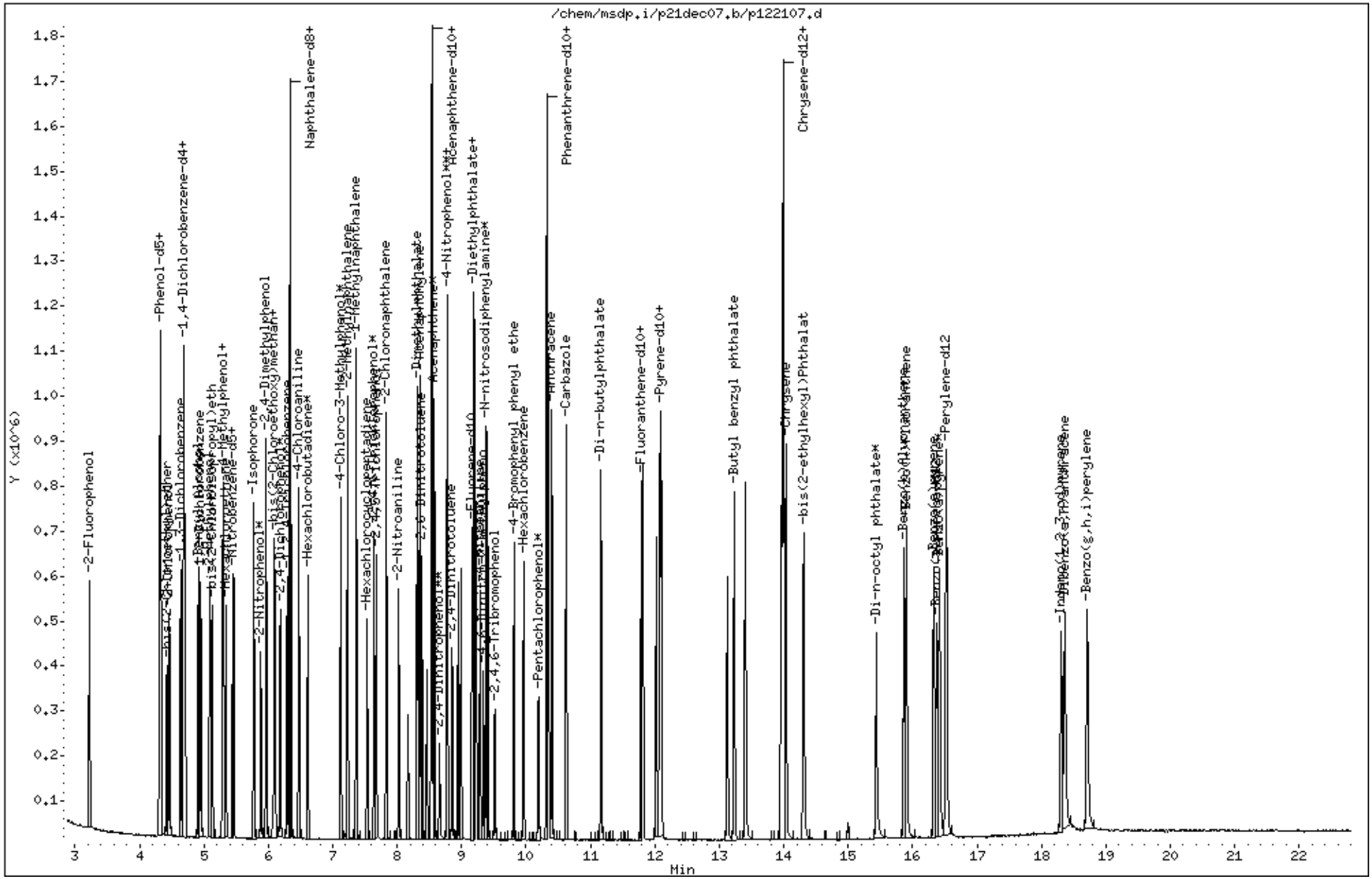
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.69	0.00
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
99 Perylene-d12	16.53	16.03	17.03	16.53	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0202

Data File: /chem/msdp.i/p21dec07.b/p122107.d
Date : 21-DEC-2007 12:23
Client ID: Level 4
Sample Info: ;1500-101-20;Level 4
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p07mar08.b/p030708.d
Lab Smp Id: 1500-129-40 Client Smp ID: Level 5
Inj Date : 07-MAR-2008 13:58
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-129-40;Level 5
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p07mar08.b/bnap1221a.m
Meth Date : 10-Mar-2008 09:42 lpham Quant Type: ISTD
Cal Date : 07-MAR-2008 13:58 Cal File: p030708.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 82702surr.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 38 2-Fluorobiphenyl	172	7.522	7.522	(0.904)	519857	40.0000	39.68
$ 82 Terphenyl-d14	244	12.117	12.118	(0.887)	494874	40.0000	39.80
* 7 1,4-Dichlorobenzene-d4	150	4.458	4.458	(1.000)	281358	40.0000	
* 27 Naphthalene-d8	136	6.104	6.104	(1.000)	724195	40.0000	
* 47 Acenaphthene-d10	164	8.319	8.319	(1.000)	386362	40.0000	
* 71 Phenanthrene-d10	188	10.089	10.089	(1.000)	624052	40.0000	
* 90 Chrysene-d12	240	13.660	13.660	(1.000)	556852	40.0000	
* 99 Perylene-d12	264	16.144	16.144	(1.000)	432490	40.0000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030708.d
Lab Smp Id: 1500-129-40
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p07mar08.b/bnap1221a.m
Misc Info: ,NOTICS

Calibration Date: 07-MAR-2008
Calibration Time: 14:27
Client Smp ID: Level 5
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	278255	139128	556510	281358	1.12
27 Naphthalene-d8	720975	360488	1441950	724195	0.45
47 Acenaphthene-d10	392938	196469	785876	386362	-1.67
71 Phenanthrene-d10	633676	316838	1267352	624052	-1.52
90 Chrysene-d12	567063	283532	1134126	556852	-1.80
99 Perylene-d12	431347	215674	862694	432490	0.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.46	3.96	4.96	4.46	0.00
27 Naphthalene-d8	6.10	5.60	6.60	6.10	0.00
47 Acenaphthene-d10	8.32	7.82	8.82	8.32	0.00
71 Phenanthrene-d10	10.09	9.59	10.59	10.09	0.00
90 Chrysene-d12	13.66	13.16	14.16	13.66	0.00
99 Perylene-d12	16.14	15.64	16.64	16.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdp.i/p07mar08.b/p030708.d

Date : 07-MAR-2008 13:58

Client ID: Level 5

Sample Info: ;1500-129-40;Level 5

Volume Injected (uL): 1.0

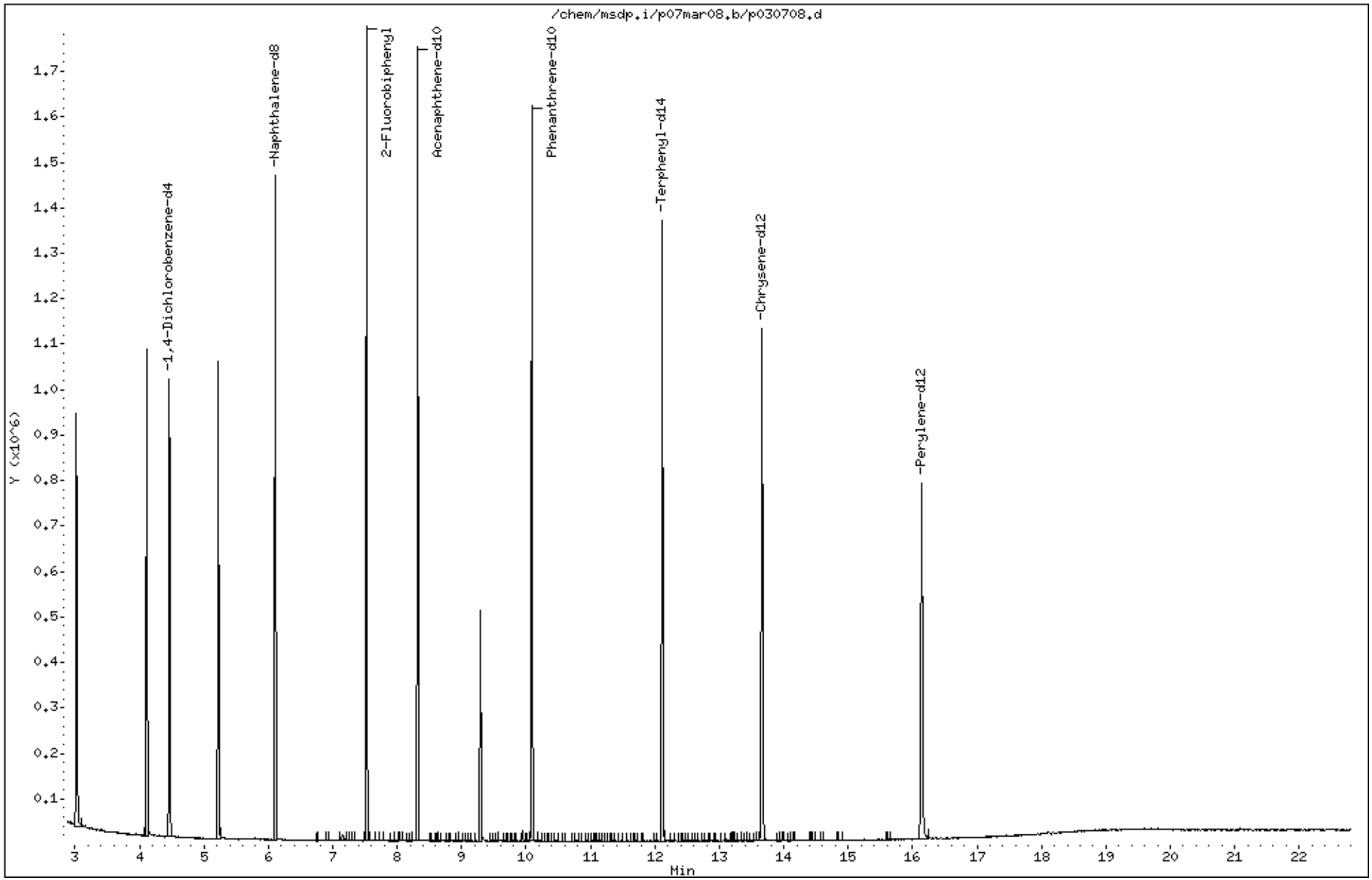
Column phase: DB-5.625

Instrument: msdp.i

Operator: LP

Column diameter: 0.25

0205



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122108.d
Lab Smp Id: 1500-101-40 Client Smp ID: Level 5
Inj Date : 21-DEC-2007 12:52
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-101-40;Level 5
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 21-Dec-2007 16:38 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 12:52 Cal File: p122108.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 50ng.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
$	1 2-Fluorophenol	112	3.216	3.227	(0.686)	296493	40.0000	38.33	
$	2 Phenol-d5	99	4.313	4.313	(0.920)	380409	40.0000	38.04	
$	17 Nitrobenzene-d5	82	5.441	5.442	(0.859)	327052	40.0000	39.84	
$	62 2,4,6-Tribromophenol	330	9.519	9.520	(1.114)	73279	40.0000	40.80	
$	83 Fluoranthene-d10	212	11.786	11.786	(1.141)	617496	40.0000	40.36	
$	101 Benzo(a)pyrene-d12	264	16.382	16.382	(1.000)	515723	40.0000	4.642	
$	147 Fluorene-d10	176	9.168	9.168	(1.073)	461063	40.0000	38.99	
$	148 Pyrene-d10	212	12.076	12.076	(0.863)	628176	40.0000	38.74	
*	7 1,4-Dichlorobenzene-d4	150	4.686	4.686	(1.000)	307706	40.0000		
*	27 Naphthalene-d8	136	6.332	6.332	(1.000)	750895	40.0000		
*	47 Acenaphthene-d10	164	8.547	8.547	(1.000)	414608	40.0000		
*	71 Phenanthrene-d10	188	10.327	10.327	(1.000)	696200	40.0000		
*	90 Chrysene-d12	240	13.991	13.991	(1.000)	627186	40.0000		
*	99 Perylene-d12	264	16.527	16.527	(1.000)	479536	40.0000		(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3	Phenol*	94	4.334	4.334	(0.925)	425300	40.0000	37.25
41	Aniline	93	4.334	4.334	(0.925)	484846	40.0000	36.60
4	bis(2-Chloroethyl)ether	93	4.427	4.427	(0.945)	316359	40.0000	36.84
5	2-Chlorophenol	128	4.469	4.469	(0.954)	299608	40.0000	37.65
6	1,3-Dichlorobenzene	146	4.644	4.645	(0.991)	305699	40.0000	36.62
9	1,4-Dichlorobenzene*	146	4.707	4.707	(1.004)	309982	40.0000	35.37
10	Benzyl Alcohol	108	4.914	4.914	(1.049)	220207	40.0000	39.38
11	1,2-Dichlorobenzene	146	4.945	4.945	(1.055)	290481	40.0000	36.53
12	2-Methylphenol	108	5.100	5.100	(1.088)	297252	40.0000	38.38
13	bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.095)	583854	40.0000	37.57
14	4-Methylphenol	108	5.297	5.297	(1.130)	312890	40.0000	38.37
15	N-Nitrosodipropylamine**	70	5.307	5.307	(1.133)	234021	40.0000	38.29
16	Hexachloroethane	117	5.338	5.338	(1.139)	122666	40.0000	37.95
18	Nitrobenzene	77	5.462	5.462	(0.863)	339862	40.0000	39.97
19	Isophorone	82	5.773	5.773	(0.912)	578926	40.0000	40.84
20	2-Nitrophenol*	139	5.876	5.887	(0.928)	164971	40.0000	42.25
21	2,4-Dimethylphenol	122	5.969	5.970	(0.943)	273710	40.0000	38.67
23	bis(2-Chloroethoxy)methane	93	6.104	6.104	(0.964)	384305	40.0000	39.14
24	Benzoic Acid	122	6.135	6.135	(0.969)	170488	40.0000	42.69
25	2,4-Dichlorophenol*	162	6.187	6.187	(0.977)	228172	40.0000	39.87
26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	231283	40.0000	38.56
28	Naphthalene	128	6.352	6.352	(1.003)	870593	40.0000	38.02
29	4-Chloroaniline	127	6.476	6.477	(1.023)	369587	40.0000	39.38
30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	124542	40.0000	38.32
32	4-Chloro-3-Methylphenol*	107	7.118	7.118	(1.124)	268838	40.0000	40.46
33	2-Methylnaphthalene	142	7.232	7.232	(1.142)	519502	40.0000	37.32
145	1-Methylnaphthalene	142	7.367	7.367	(1.163)	538636	40.0000	37.84
35	Hexachlorocyclopentadiene**	237	7.532	7.532	(0.881)	133310	40.0000	39.98
36	2,4,6-Trichlorophenol*	196	7.636	7.636	(0.893)	147239	40.0000	39.53
37	2,4,5-Trichlorophenol	196	7.677	7.677	(0.898)	159955	40.0000	40.47
39	2-Chloronaphthalene	162	7.832	7.833	(0.916)	488704	40.0000	38.93
40	2-Nitroaniline	65	8.019	8.019	(0.938)	200764	40.0000	42.79
46	3-Nitroaniline	138	8.536	8.536	(0.999)	152670	40.0000	39.89
42	Dimethylphthalate	163	8.319	8.319	(0.973)	526341	40.0000	38.23
44	2,6-Dinitrotoluene	165	8.391	8.391	(0.982)	132169	40.0000	40.76
45	Acenaphthylene	152	8.350	8.350	(0.977)	799026	40.0000	39.44
48	Acenaphthene*	154	8.588	8.588	(1.005)	474232	40.0000	37.86
49	2,4-Dinitrophenol**	184	8.660	8.661	(1.013)	67013	40.0000	42.81
50	4-Nitrophenol**	109	8.774	8.774	(1.027)	85635	40.0000	41.12
52	2,4-Dinitrotoluene	165	8.857	8.857	(1.036)	178017	40.0000	42.43
51	Dibenzofuran	168	8.785	8.774	(1.028)	650639	40.0000	37.01
56	Diethylphthalate	149	9.188	9.188	(1.075)	524255	40.0000	38.54
57	Fluorene	166	9.199	9.199	(1.076)	522575	40.0000	36.65
58	4-Chlorophenyl phenyl ether	204	9.230	9.230	(1.080)	246130	40.0000	38.39
59	4-Nitroaniline	138	9.292	9.292	(1.087)	178629	40.0000	42.14
60	4,6-Dinitro-2-methylphenol	198	9.344	9.344	(0.905)	97508	40.0000	44.64
61	N-nitrosodiphenylamine*	169	9.385	9.385	(0.909)	472039	40.0000	39.26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	4-Bromophenyl phenyl ether	248	9.809	9.809	(0.950)	139610	40.0000	39.23
66	Hexachlorobenzene	284	9.965	9.965	(0.965)	157667	40.0000	38.12
144	Carbazole	167	10.627	10.627	(2.268)	777339	40.0000	39.13
68	Pentachlorophenol*	266	10.192	10.192	(0.987)	92309	40.0000	40.10
72	Phenanthrene	178	10.347	10.348	(1.002)	766196	40.0000	37.41
73	Anthracene	178	10.410	10.410	(1.008)	774429	40.0000	39.77
78	Di-n-butylphthalate	149	11.165	11.165	(1.081)	939430	40.0000	40.86
80	Fluoranthene*	202	11.817	11.817	(1.144)	763220	40.0000	39.22
81	Pyrene	202	12.107	12.107	(0.865)	816545	40.0000	38.25
85	Butyl benzyl phthalate	149	13.225	13.225	(0.945)	439508	40.0000	42.56
89	3 3'-Dichlorobenzidine	252	14.001	14.001	(1.001)	271837	40.0000	40.84
88	Benzo(a)Anthracene	228	13.960	13.960	(0.998)	796396	40.0000	41.53
91	Chrysene	228	14.032	14.032	(1.003)	784125	40.0000	38.94
93	bis(2-ethylhexyl)Phthalate	149	14.312	14.312	(1.023)	588516	40.0000	44.32
94	Di-n-octyl phthalate*	149	15.440	15.440	(0.942)	952291	40.0000	46.59
95	Benzo(b)fluoranthene	252	15.864	15.864	(0.968)	805902	40.0000	42.31
96	Benzo(k)fluoranthene	252	15.916	15.916	(0.972)	825585	40.0000	39.53
97	Benzo(e)pyrene	252	16.340	16.340	(0.997)	741052	40.0000	40.26
98	Benzo(a)pyrene*	252	16.423	16.423	(1.003)	737145	40.0000	40.09(H)
103	Indeno(1,2,3-cd)pyrene	276	18.307	18.307	(1.118)	781742	40.0000	42.93
104	Dibenzo(a,h)anthracene	278	18.369	18.369	(1.121)	578170	40.0000	37.60
105	Benzo(g,h,i)perylene	276	18.721	18.721	(1.143)	710587	40.0000	41.42

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122108.d
Lab Smp Id: 1500-101-40
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: Level 5
Level: LOW
Sample Type: PUF/XAD

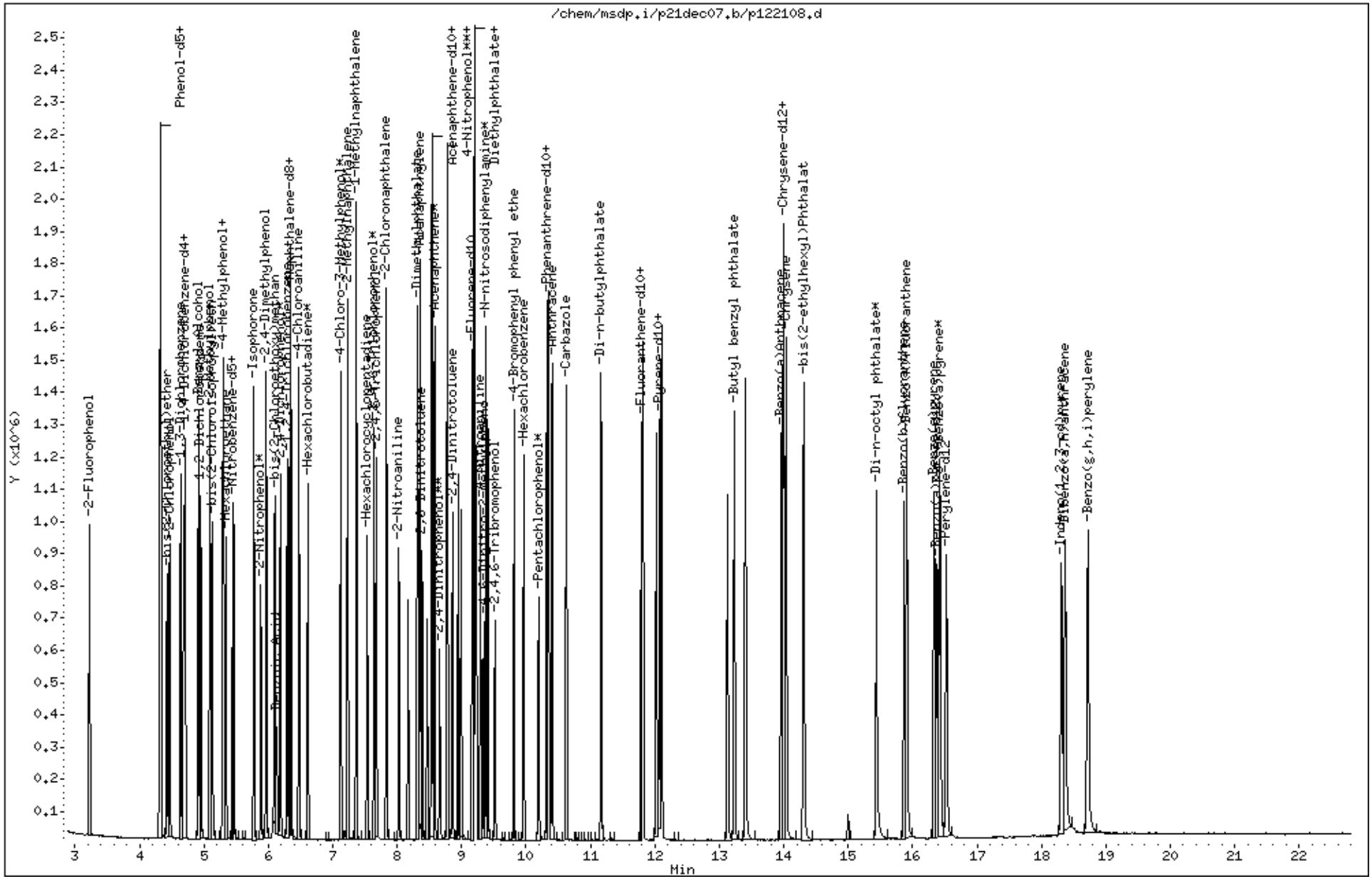
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	307706	5.75
27 Naphthalene-d8	673378	336689	1346756	750895	11.51
47 Acenaphthene-d10	362252	181126	724504	414608	14.45
71 Phenanthrene-d10	605762	302881	1211524	696200	14.93
90 Chrysene-d12	511454	255727	1022908	627186	22.63
99 Perylene-d12	379203	189602	758406	479536	26.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.69	0.00
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
99 Perylene-d12	16.53	16.03	17.03	16.53	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0210

Data File: /chem/msdp.i/p21dec07.b/p122108.d
Date : 21-DEC-2007 12:52
Client ID: Level 5
Instrument: msdp.i
Sample Info: ;1500-101-40;Level 5
Volume Injected (uL): 1.0
Operator: LP
Column phase: DB-5.625
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p16apr08.b/p041612.d
Lab Smp Id: 1500-148-50
Inj Date : 16-APR-2008 17:16
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-148-50;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p16apr08.b/bnap1221b.m
Meth Date : 17-Apr-2008 13:59 lzhang Quant Type: ISTD
Cal Date : 16-APR-2008 17:16 Cal File: p041612.d
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Pentabenz.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 7 1,4-Dichlorobenzene-d4	150	4.310	4.310	(1.000)	264713	40.0000	
* 27 Naphthalene-d8	136	5.956	5.966	(1.000)	684609	40.0000	
* 47 Acenaphthene-d10	164	8.171	8.181	(1.000)	379575	40.0000	
* 71 Phenanthrene-d10	188	9.941	9.941	(1.000)	634521	40.0000	
* 90 Chrysene-d12	240	13.460	13.470	(1.000)	573703	40.0000	
* 99 Perylene-d12	264	15.913	15.913	(1.000)	424014	40.0000	
149 Pentachlorobenzene	250	8.440	8.440	(1.033)	209295	50.0000	50.00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p041612.d
Lab Smp Id: 1500-148-50
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p16apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 16-APR-2008
Calibration Time: 15:47
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	315188	157594	630376	264713	-16.01
27 Naphthalene-d8	717915	358958	1435830	684609	-4.64
47 Acenaphthene-d10	391485	195742	782970	379575	-3.04
71 Phenanthrene-d10	622648	311324	1245296	634521	1.91
90 Chrysene-d12	574390	287195	1148780	573703	-0.12
99 Perylene-d12	479044	239522	958088	424014	-11.49

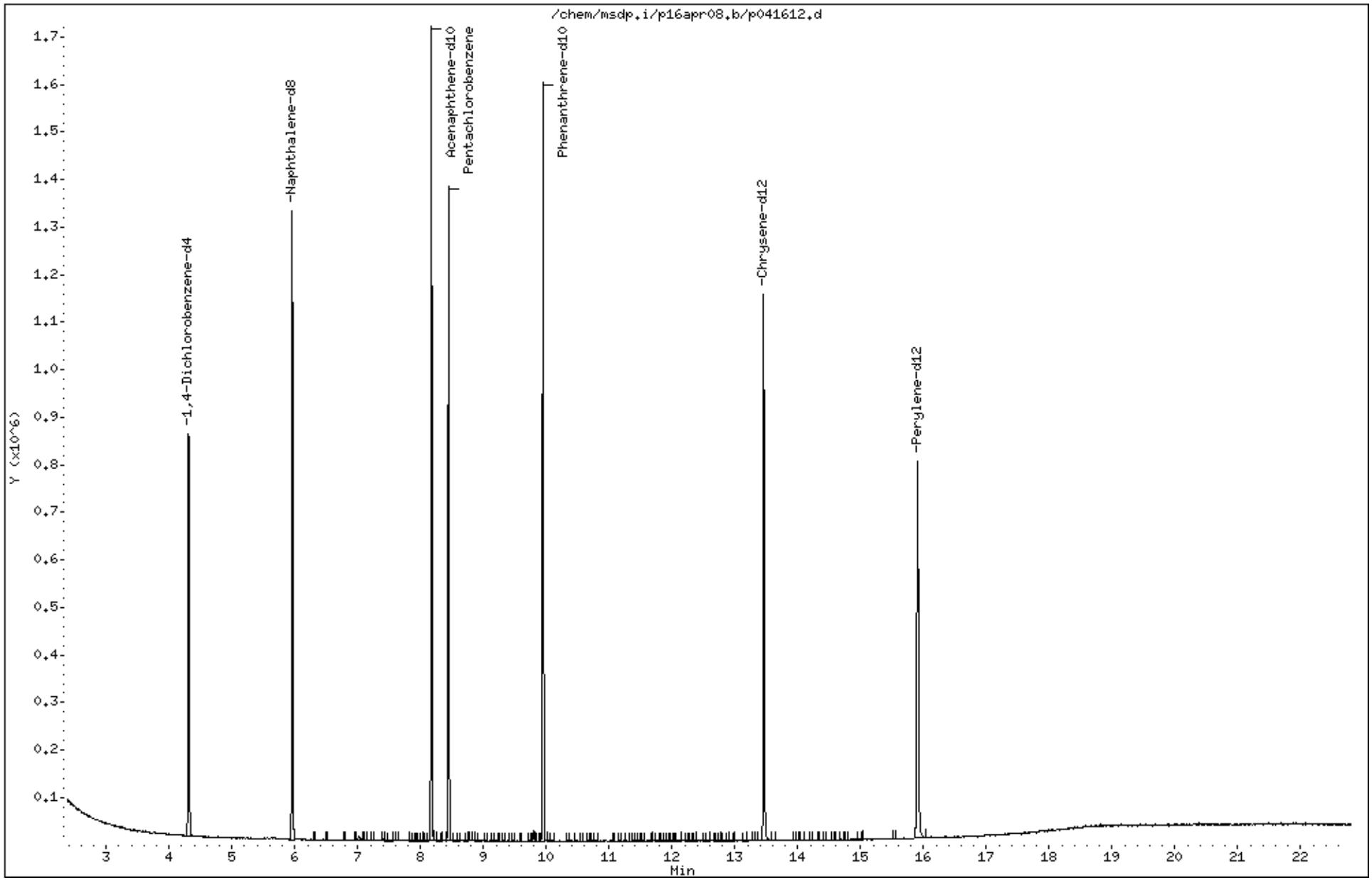
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.31	3.81	4.81	4.31	0.00
27 Naphthalene-d8	5.97	5.47	6.47	5.96	-0.17
47 Acenaphthene-d10	8.18	7.68	8.68	8.17	-0.12
71 Phenanthrene-d10	9.94	9.44	10.44	9.94	0.00
90 Chrysene-d12	13.47	12.97	13.97	13.46	-0.08
99 Perylene-d12	15.91	15.41	16.41	15.91	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0213

Data File: /chem/msdp.i/p16apr08.b/p041612.d
Date : 16-APR-2008 17:16
Client ID:
Sample Info: ;1500-148-50;
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p07mar08.b/p030709.d
Lab Smp Id: 1500-129-50 Client Smp ID: Level 6
Inj Date : 07-MAR-2008 14:27
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-129-50;Level 6
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p07mar08.b/bnap1221a.m
Meth Date : 10-Mar-2008 09:42 lpham Quant Type: ISTD
Cal Date : 07-MAR-2008 14:27 Cal File: p030709.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 82702surr.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 38 2-Fluorobiphenyl	172	7.522	7.522	(0.904)	607103	50.0000	47.70(M)
$ 82 Terphenyl-d14	244	12.118	12.118	(0.887)	594986	50.0000	48.34
* 7 1,4-Dichlorobenzene-d4	150	4.458	4.458	(1.000)	278255	40.0000	
* 27 Naphthalene-d8	136	6.104	6.104	(1.000)	720975	40.0000	
* 47 Acenaphthene-d10	164	8.319	8.319	(1.000)	392938	40.0000	
* 71 Phenanthrene-d10	188	10.089	10.089	(1.000)	633676	40.0000	
* 90 Chrysene-d12	240	13.660	13.660	(1.000)	567063	40.0000	
* 99 Perylene-d12	264	16.144	16.144	(1.000)	431347	40.0000	

QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030709.d
Lab Smp Id: 1500-129-50
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p07mar08.b/bnap1221a.m
Misc Info: ,NOTICS

Calibration Date: 07-MAR-2008
Calibration Time: 14:27
Client Smp ID: Level 6
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	278255	139128	556510	278255	0.00
27 Naphthalene-d8	720975	360488	1441950	720975	0.00
47 Acenaphthene-d10	392938	196469	785876	392938	0.00
71 Phenanthrene-d10	633676	316838	1267352	633676	0.00
90 Chrysene-d12	567063	283532	1134126	567063	0.00
99 Perylene-d12	431347	215674	862694	431347	0.00

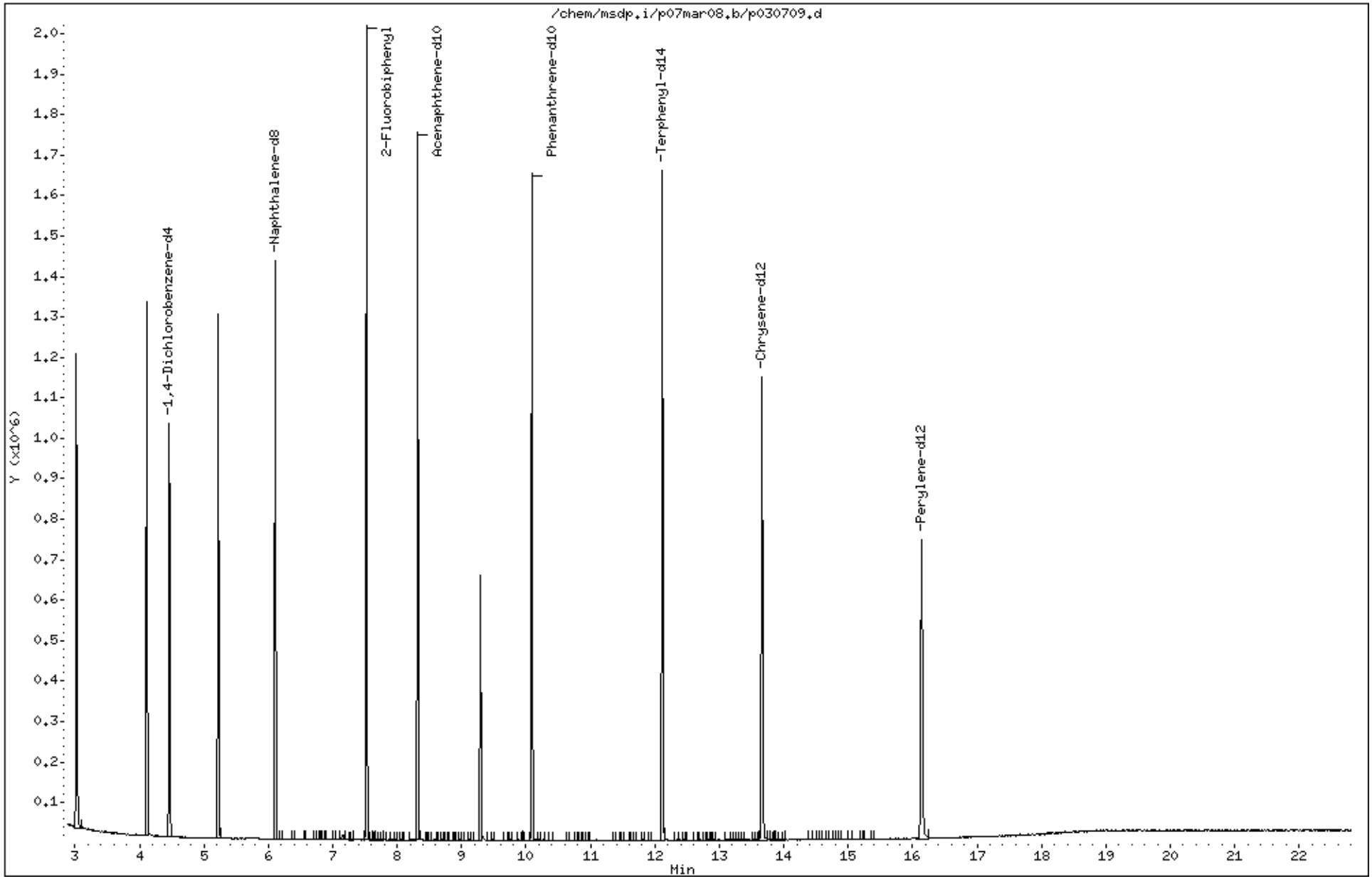
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.46	3.96	4.96	4.46	0.00
27 Naphthalene-d8	6.10	5.60	6.60	6.10	0.00
47 Acenaphthene-d10	8.32	7.82	8.82	8.32	0.00
71 Phenanthrene-d10	10.09	9.59	10.59	10.09	0.00
90 Chrysene-d12	13.66	13.16	14.16	13.66	0.00
99 Perylene-d12	16.14	15.64	16.64	16.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0216

Data File: /chem/msdp.i/p07mar08.b/p030709.d
Date : 07-MAR-2008 14:27
Client ID: Level 6
Sample Info: ;1500-129-50;Level 6
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122109.d
Lab Smp Id: 1500-101-50 Client Smp ID: Level 6
Inj Date : 21-DEC-2007 13:22
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-101-50;Level 6
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 21-Dec-2007 16:38 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 13:22 Cal File: p122109.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 50ccv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 2-Fluorophenol	112	3.227	3.227	(0.689)	334622	50.0000	50.12
$	2 Phenol-d5	99	4.313	4.313	(0.920)	416477	50.0000	49.18
	3 Phenol*	94	4.334	4.334	(0.925)	467763	50.0000	49.05
	41 Aniline	93	4.334	4.334	(0.925)	537155	50.0000	47.94
	4 bis(2-Chloroethyl)ether	93	4.427	4.427	(0.945)	353171	50.0000	47.80
	5 2-Chlorophenol	128	4.469	4.469	(0.954)	339946	50.0000	49.70
	6 1,3-Dichlorobenzene	146	4.645	4.645	(0.991)	342768	50.0000	48.20
*	7 1,4-Dichlorobenzene-d4	150	4.686	4.686	(1.000)	290980	40.0000	
	9 1,4-Dichlorobenzene*	146	4.707	4.707	(1.004)	353342	50.0000	47.60(H)
	10 Benzyl Alcohol	108	4.914	4.914	(1.049)	240071	50.0000	49.09
	11 1,2-Dichlorobenzene	146	4.945	4.945	(1.055)	330499	50.0000	48.42
	12 2-Methylphenol	108	5.100	5.100	(1.088)	327289	50.0000	49.39
	13 bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.095)	656200	50.0000	48.61
	14 4-Methylphenol	108	5.297	5.297	(1.130)	344653	50.0000	49.43

			QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	15	N-Nitrosodipropylamine**	70	5.307	5.307	(1.133)	260456	50.0000	48.94
	16	Hexachloroethane	117	5.338	5.338	(1.139)	140841	50.0000	50.53
$	17	Nitrobenzene-d5	82	5.442	5.442	(0.859)	370850	50.0000	51.11(H)
	18	Nitrobenzene	77	5.462	5.462	(0.863)	376038	50.0000	50.57
	19	Isophorone	82	5.773	5.773	(0.912)	628769	50.0000	50.16
	20	2-Nitrophenol*	139	5.887	5.887	(0.930)	185836	50.0000	53.39
	21	2,4-Dimethylphenol	122	5.970	5.970	(0.943)	303508	50.0000	50.21
	24	Benzoic Acid	122	6.135	6.135	(0.969)	185359	50.0000	47.57
	23	bis(2-Chloroethoxy)methane	93	6.104	6.104	(0.964)	422817	50.0000	50.27(H)
	25	2,4-Dichlorophenol*	162	6.187	6.187	(0.977)	252958	50.0000	51.90
	26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	257754	50.0000	50.93
*	27	Naphthalene-d8	136	6.332	6.332	(1.000)	673378	40.0000	
	28	Naphthalene	128	6.352	6.352	(1.003)	970001	50.0000	50.15
	29	4-Chloroaniline	127	6.477	6.477	(1.023)	403705	50.0000	50.34
	30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	139599	50.0000	50.80
	32	4-Chloro-3-Methylphenol*	107	7.118	7.118	(1.124)	284147	50.0000	49.25
	33	2-Methylnaphthalene	142	7.232	7.232	(1.142)	573031	50.0000	48.88
	145	1-Methylnaphthalene	142	7.367	7.367	(1.163)	586509	50.0000	49.01(H)
	35	Hexachlorocyclopentadiene**	237	7.532	7.532	(0.881)	148999	50.0000	50.46
	36	2,4,6-Trichlorophenol*	196	7.636	7.636	(0.893)	164299	50.0000	51.06
	37	2,4,5-Trichlorophenol	196	7.677	7.677	(0.898)	174638	50.0000	50.87
	39	2-Chloronaphthalene	162	7.833	7.833	(0.916)	517682	50.0000	48.90
	40	2-Nitroaniline	65	8.019	8.019	(0.938)	216654	50.0000	50.56
	42	Dimethylphthalate	163	8.319	8.319	(0.973)	575731	50.0000	49.89(H)
	44	2,6-Dinitrotoluene	165	8.391	8.391	(0.982)	143550	50.0000	50.62
	45	Acenaphthylene	152	8.350	8.350	(0.977)	867800	50.0000	50.16
	46	3-Nitroaniline	138	8.536	8.536	(0.999)	159964	50.0000	48.06(H)
*	47	Acenaphthene-d10	164	8.547	8.547	(1.000)	362252	40.0000	
	48	Acenaphthene*	154	8.588	8.588	(1.005)	522286	50.0000	49.94
	49	2,4-Dinitrophenol**	184	8.661	8.661	(1.013)	71357	50.0000	44.61
	50	4-Nitrophenol**	109	8.774	8.774	(1.027)	89852	50.0000	48.34
	51	Dibenzofuran	168	8.774	8.774	(1.027)	695659	50.0000	47.96
	52	2,4-Dinitrotoluene	165	8.857	8.857	(1.036)	191143	50.0000	50.92
	56	Diethylphthalate	149	9.188	9.188	(1.075)	551645	50.0000	48.39
$	147	Fluorene-d10	176	9.168	9.168	(1.073)	494215	50.0000	49.73
	58	4-Chlorophenyl phenyl ether	204	9.230	9.230	(1.080)	263576	50.0000	49.32
	57	Fluorene	166	9.199	9.199	(1.076)	567923	50.0000	48.92
	59	4-Nitroaniline	138	9.292	9.292	(1.087)	182174	50.0000	48.42
	60	4,6-Dinitro-2-methylphenol	198	9.344	9.344	(0.905)	104060	50.0000	52.58
	61	N-nitrosodiphenylamine*	169	9.385	9.385	(0.909)	496315	50.0000	51.60
$	62	2,4,6-Tribromophenol	330	9.520	9.520	(1.114)	76916	50.0000	49.45
	65	4-Bromophenyl phenyl ether	248	9.809	9.809	(0.950)	150715	50.0000	51.15
	66	Hexachlorobenzene	284	9.965	9.965	(0.965)	164324	50.0000	48.74
	68	Pentachlorophenol*	266	10.192	10.192	(0.987)	100381	50.0000	51.13
*	71	Phenanthrene-d10	188	10.327	10.327	(1.000)	605762	40.0000	
	72	Phenanthrene	178	10.348	10.348	(1.002)	809697	50.0000	48.61
	73	Anthracene	178	10.410	10.410	(1.008)	816493	50.0000	50.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
144	Carbazole	167	10.627	10.627	(2.268)	793023	50.0000	46.57
78	Di-n-butylphthalate	149	11.165	11.165	(1.081)	989402	50.0000	51.25
$ 83	Fluoranthene-d10	212	11.786	11.786	(1.141)	640548	50.0000	48.11
80	Fluoranthene*	202	11.817	11.817	(1.144)	774115	50.0000	48.41
$ 148	Pyrene-d10	212	12.076	12.076	(0.863)	652725	50.0000	51.00
81	Pyrene	202	12.107	12.107	(0.865)	845507	50.0000	50.74
85	Butyl benzyl phthalate	149	13.225	13.225	(0.945)	444179	50.0000	51.87
89	3 3'-Dichlorobenzidine	252	14.001	14.001	(1.001)	270257	50.0000	49.49
88	Benzo(a)Anthracene	228	13.960	13.960	(0.998)	805063	50.0000	51.28
* 90	Chrysene-d12	240	13.991	13.991	(1.000)	511454	40.0000	
91	Chrysene	228	14.032	14.032	(1.003)	788402	50.0000	49.31
93	bis(2-ethylhexyl)Phthalate	149	14.312	14.312	(1.023)	594052	50.0000	52.25
94	Di-n-octyl phthalate*	149	15.440	15.440	(0.942)	943779	50.0000	54.25
95	Benzo(b)fluoranthene	252	15.864	15.864	(0.968)	803695	50.0000	53.82
96	Benzo(k)fluoranthene	252	15.916	15.916	(0.972)	798233	50.0000	49.71(H)
97	Benzo(e)pyrene	252	16.340	16.340	(0.997)	723413	50.0000	51.05(H)
$ 101	Benzo(a)pyrene-d12	264	16.382	16.382	(1.000)	499364	50.0000	51.61
98	Benzo(a)pyrene*	252	16.423	16.423	(1.003)	729453	50.0000	51.44
* 99	Perylene-d12	264	16.527	16.527	(1.000)	379203	40.0000	(H)
103	Indeno(1,2,3-cd)pyrene	276	18.307	18.307	(1.118)	767211	50.0000	52.78
104	Dibenzo(a,h)anthracene	278	18.369	18.369	(1.121)	631783	50.0000	52.36
105	Benzo(g,h,i)perylene	276	18.721	18.721	(1.143)	686811	50.0000	51.24

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122109.d
Lab Smp Id: 1500-101-50
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: Level 6
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	290980	0.00
27 Naphthalene-d8	673378	336689	1346756	673378	0.00
47 Acenaphthene-d10	362252	181126	724504	362252	0.00
71 Phenanthrene-d10	605762	302881	1211524	605762	0.00
90 Chrysene-d12	511454	255727	1022908	511454	0.00
99 Perylene-d12	379203	189602	758406	379203	0.00

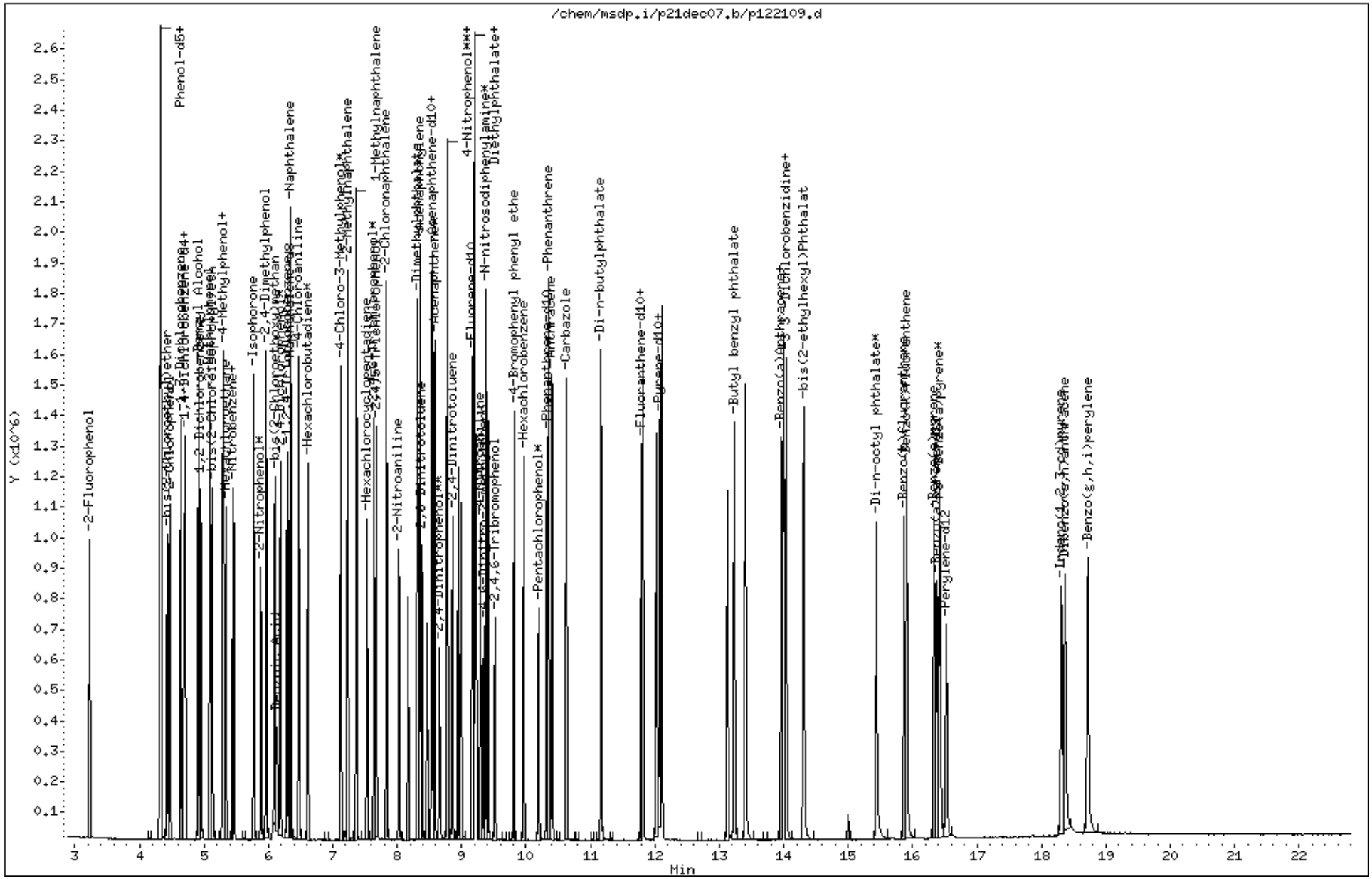
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.69	0.00
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
99 Perylene-d12	16.53	16.03	17.03	16.53	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0221

Data File: /chem/msdp.i/p21dec07.b/p122109.d
Date : 21-DEC-2007 13:22
Client ID: Level 6
Sample Info: ;1500-101-50;Level 6
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p07mar08.b/p030710.d
Lab Smp Id: 1500-129-80 Client Smp ID: Level 7
Inj Date : 07-MAR-2008 14:57
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-129-80;Level 7
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p07mar08.b/bnap1221a.m
Meth Date : 10-Mar-2008 09:42 lpham Quant Type: ISTD
Cal Date : 07-MAR-2008 14:57 Cal File: p030710.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 82702surr.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 38 2-Fluorobiphenyl	172	7.522	7.522	(0.904)	889768	80.0000	68.54
$ 82 Terphenyl-d14	244	12.117	12.118	(0.887)	911795	80.0000	73.65
* 7 1,4-Dichlorobenzene-d4	150	4.458	4.458	(1.000)	280257	40.0000	
* 27 Naphthalene-d8	136	6.104	6.104	(1.000)	718261	40.0000	
* 47 Acenaphthene-d10	164	8.319	8.319	(1.000)	391924	40.0000	
* 71 Phenanthrene-d10	188	10.089	10.089	(1.000)	621865	40.0000	
* 90 Chrysene-d12	240	13.660	13.660	(1.000)	561764	40.0000	
* 99 Perylene-d12	264	16.144	16.144	(1.000)	429903	40.0000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030710.d
Lab Smp Id: 1500-129-80
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p07mar08.b/bnap1221a.m
Misc Info: ,NOTICS

Calibration Date: 07-MAR-2008
Calibration Time: 14:27
Client Smp ID: Level 7
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	278255	139128	556510	280257	0.72
27 Naphthalene-d8	720975	360488	1441950	718261	-0.38
47 Acenaphthene-d10	392938	196469	785876	391924	-0.26
71 Phenanthrene-d10	633676	316838	1267352	621865	-1.86
90 Chrysene-d12	567063	283532	1134126	561764	-0.93
99 Perylene-d12	431347	215674	862694	429903	-0.33

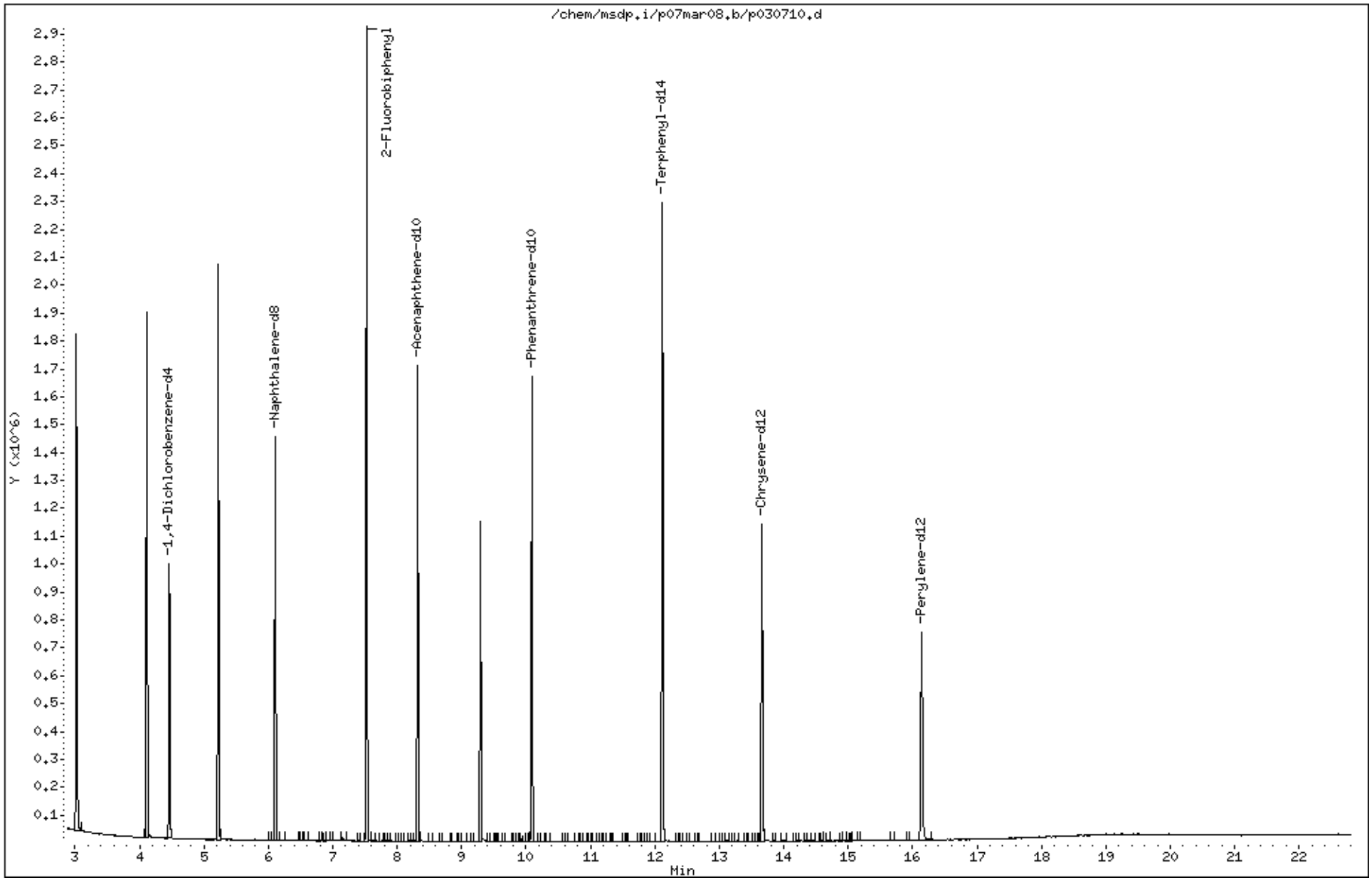
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.46	3.96	4.96	4.46	0.00
27 Naphthalene-d8	6.10	5.60	6.60	6.10	0.00
47 Acenaphthene-d10	8.32	7.82	8.82	8.32	0.00
71 Phenanthrene-d10	10.09	9.59	10.59	10.09	0.00
90 Chrysene-d12	13.66	13.16	14.16	13.66	0.00
99 Perylene-d12	16.14	15.64	16.64	16.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0224

Data File: /chem/msdp.i/p07mar08.b/p030710.d
Date : 07-MAR-2008 14:57
Client ID: Level 7
Sample Info: ;1500-129-80;Level 7
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122110.d
Lab Smp Id: 1500-101-80 Client Smp ID: Level 7
Inj Date : 21-DEC-2007 13:51
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-101-80;Level 7
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 21-Dec-2007 16:38 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 13:51 Cal File: p122110.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 160ng.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	3.216	3.227	(0.686)	577038	80.0000	68.48
$ 2 Phenol-d5	99	4.324	4.313	(0.923)	718943	80.0000	66.34
$ 17 Nitrobenzene-d5	82	5.452	5.442	(0.861)	659372	80.0000	78.12
$ 62 2,4,6-Tribromophenol	330	9.520	9.520	(1.114)	138287	80.0000	79.06
$ 147 Fluorene-d10	176	9.168	9.168	(1.073)	838230	80.0000	73.60
$ 148 Pyrene-d10	212	12.086	12.076	(0.864)	1196216	80.0000	74.17
* 7 1,4-Dichlorobenzene-d4	150	4.686	4.686	(1.000)	344831	40.0000	
* 27 Naphthalene-d8	136	6.332	6.332	(1.000)	775039	40.0000	
* 47 Acenaphthene-d10	164	8.547	8.547	(1.000)	404708	40.0000	
* 71 Phenanthrene-d10	188	10.327	10.327	(1.000)	742211	40.0000	
* 90 Chrysene-d12	240	13.991	13.991	(1.000)	631480	40.0000	
* 99 Perylene-d12	264	16.527	16.527	(1.000)	492502	40.0000	
3 Phenol*	94	4.334	4.334	(0.925)	773295	80.0000	63.00
41 Aniline	93	4.334	4.334	(0.925)	901210	80.0000	62.88

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
4	bis(2-Chloroethyl)ether	93	4.427	4.427	(0.945)	609716	80.0000	65.29
5	2-Chlorophenol	128	4.469	4.469	(0.954)	587777	80.0000	67.90
6	1,3-Dichlorobenzene	146	4.645	4.645	(0.991)	582063	80.0000	64.26
9	1,4-Dichlorobenzene*	146	4.707	4.707	(1.004)	594798	80.0000	62.74
10	Benzyl Alcohol	108	4.914	4.914	(1.049)	420228	80.0000	68.65
11	1,2-Dichlorobenzene	146	4.955	4.945	(1.057)	567404	80.0000	65.58
12	2-Methylphenol	108	5.100	5.100	(1.088)	565008	80.0000	67.18
13	bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.095)	1142612	80.0000	67.34
14	4-Methylphenol	108	5.297	5.297	(1.130)	595764	80.0000	67.27
15	N-Nitrosodipropylamine**	70	5.317	5.307	(1.135)	465005	80.0000	69.39
16	Hexachloroethane	117	5.338	5.338	(1.139)	237959	80.0000	67.42
18	Nitrobenzene	77	5.473	5.462	(0.864)	676232	80.0000	77.46
19	Isophorone	82	5.783	5.773	(0.913)	1139963	80.0000	78.21
20	2-Nitrophenol*	139	5.887	5.887	(0.930)	327416	80.0000	81.04
21	2,4-Dimethylphenol	122	5.980	5.970	(0.944)	537033	80.0000	74.52
23	bis(2-Chloroethoxy)methane	93	6.104	6.104	(0.964)	726204	80.0000	72.75
24	Benzoic Acid	122	6.166	6.135	(0.974)	393583	80.0000	91.07
25	2,4-Dichlorophenol*	162	6.187	6.187	(0.977)	428116	80.0000	73.63
26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	426956	80.0000	70.36
28	Naphthalene	128	6.363	6.352	(1.005)	1641834	80.0000	70.80
29	4-Chloroaniline	127	6.477	6.477	(1.023)	701597	80.0000	73.82
30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	231560	80.0000	70.41
32	4-Chloro-3-Methylphenol*	107	7.118	7.118	(1.124)	510467	80.0000	75.31
33	2-Methylnaphthalene	142	7.232	7.232	(1.142)	989321	80.0000	70.26
145	1-Methylnaphthalene	142	7.367	7.367	(1.163)	995368	80.0000	69.26
35	Hexachlorocyclopentadiene**	237	7.532	7.532	(0.881)	273743	80.0000	83.04
36	2,4,6-Trichlorophenol*	196	7.636	7.636	(0.893)	286051	80.0000	78.89
37	2,4,5-Trichlorophenol	196	7.677	7.677	(0.898)	308323	80.0000	79.93
39	2-Chloronaphthalene	162	7.833	7.833	(0.916)	906944	80.0000	74.82
40	2-Nitroaniline	65	8.029	8.019	(0.939)	415040	80.0000	88.67
46	3-Nitroaniline	138	8.547	8.536	(1.000)	300208	80.0000	80.29
42	Dimethylphthalate	163	8.319	8.319	(0.973)	999671	80.0000	75.27
44	2,6-Dinitrotoluene	165	8.391	8.391	(0.982)	256199	80.0000	80.78
45	Acenaphthylene	152	8.350	8.350	(0.977)	1517219	80.0000	77.18
48	Acenaphthene*	154	8.588	8.588	(1.005)	880810	80.0000	73.08
49	2,4-Dinitrophenol**	184	8.671	8.661	(1.015)	155998	80.0000	95.50
50	4-Nitrophenol**	109	8.774	8.774	(1.027)	172175	80.0000	83.47
52	2,4-Dinitrotoluene	165	8.857	8.857	(1.036)	347832	80.0000	84.06
51	Dibenzofuran	168	8.785	8.774	(1.028)	1207387	80.0000	71.59
56	Diethylphthalate	149	9.199	9.188	(1.076)	981257	80.0000	74.85
57	Fluorene	166	9.209	9.199	(1.077)	948890	80.0000	69.65
58	4-Chlorophenyl phenyl ether	204	9.230	9.230	(1.080)	448678	80.0000	72.77
59	4-Nitroaniline	138	9.302	9.292	(1.088)	335531	80.0000	80.86
60	4,6-Dinitro-2-methylphenol	198	9.354	9.344	(0.906)	206147	80.0000	86.68
61	N-nitrosodiphenylamine*	169	9.385	9.385	(0.909)	867044	80.0000	69.79
65	4-Bromophenyl phenyl ether	248	9.809	9.809	(0.950)	267582	80.0000	71.74
66	Hexachlorobenzene	284	9.965	9.965	(0.965)	292660	80.0000	68.03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
144	Carbazole	167	10.627	10.627	(2.268)	1412829	80.0000	65.40
68	Pentachlorophenol*	266	10.192	10.192	(0.987)	191407	80.0000	78.48
72	Phenanthrene	178	10.358	10.348	(1.003)	1453702	80.0000	68.21
73	Anthracene	178	10.410	10.410	(1.008)	1471926	80.0000	72.07
78	Di-n-butylphthalate	149	11.176	11.165	(1.082)	1848649	80.0000	76.16
80	Fluoranthene*	202	11.817	11.817	(1.144)	1426059	80.0000	70.15
81	Pyrene	202	12.107	12.107	(0.865)	1506331	80.0000	71.34
85	Butyl benzyl phthalate	149	13.235	13.225	(0.946)	870821	80.0000	83.10
89	3 3'-Dichlorobenzidine	252	14.012	14.001	(1.001)	539852	80.0000	80.42
88	Benzo(a)Anthracene	228	13.970	13.960	(0.999)	1562277	80.0000	80.78
91	Chrysene	228	14.043	14.032	(1.004)	1501515	80.0000	74.86
93	bis(2-ethylhexyl)Phthalate	149	14.312	14.312	(1.023)	1211425	80.0000	88.64
94	Di-n-octyl phthalate*	149	15.440	15.440	(0.934)	2048731	80.0000	94.15
95	Benzo(b)fluoranthene	252	15.875	15.864	(0.961)	1476642	80.0000	76.09
96	Benzo(k)fluoranthene	252	15.926	15.916	(0.964)	1673947	80.0000	78.31
97	Benzo(e)pyrene	252	16.351	16.340	(0.989)	1431347	80.0000	76.29
98	Benzo(a)pyrene*	252	16.434	16.423	(0.994)	1468932	80.0000	78.09
103	Indeno(1,2,3-cd)pyrene	276	18.328	18.307	(1.109)	1582565	80.0000	83.93
104	Dibenzo(a,h)anthracene	278	18.379	18.369	(1.112)	1324055	80.0000	83.27
105	Benzo(g,h,i)perylene	276	18.742	18.721	(1.134)	1392807	80.0000	79.18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122110.d
Lab Smp Id: 1500-101-80
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: Level 7
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	344831	18.51
27 Naphthalene-d8	673378	336689	1346756	775039	15.10
47 Acenaphthene-d10	362252	181126	724504	404708	11.72
71 Phenanthrene-d10	605762	302881	1211524	742211	22.53
90 Chrysene-d12	511454	255727	1022908	631480	23.47
99 Perylene-d12	379203	189602	758406	492502	29.88

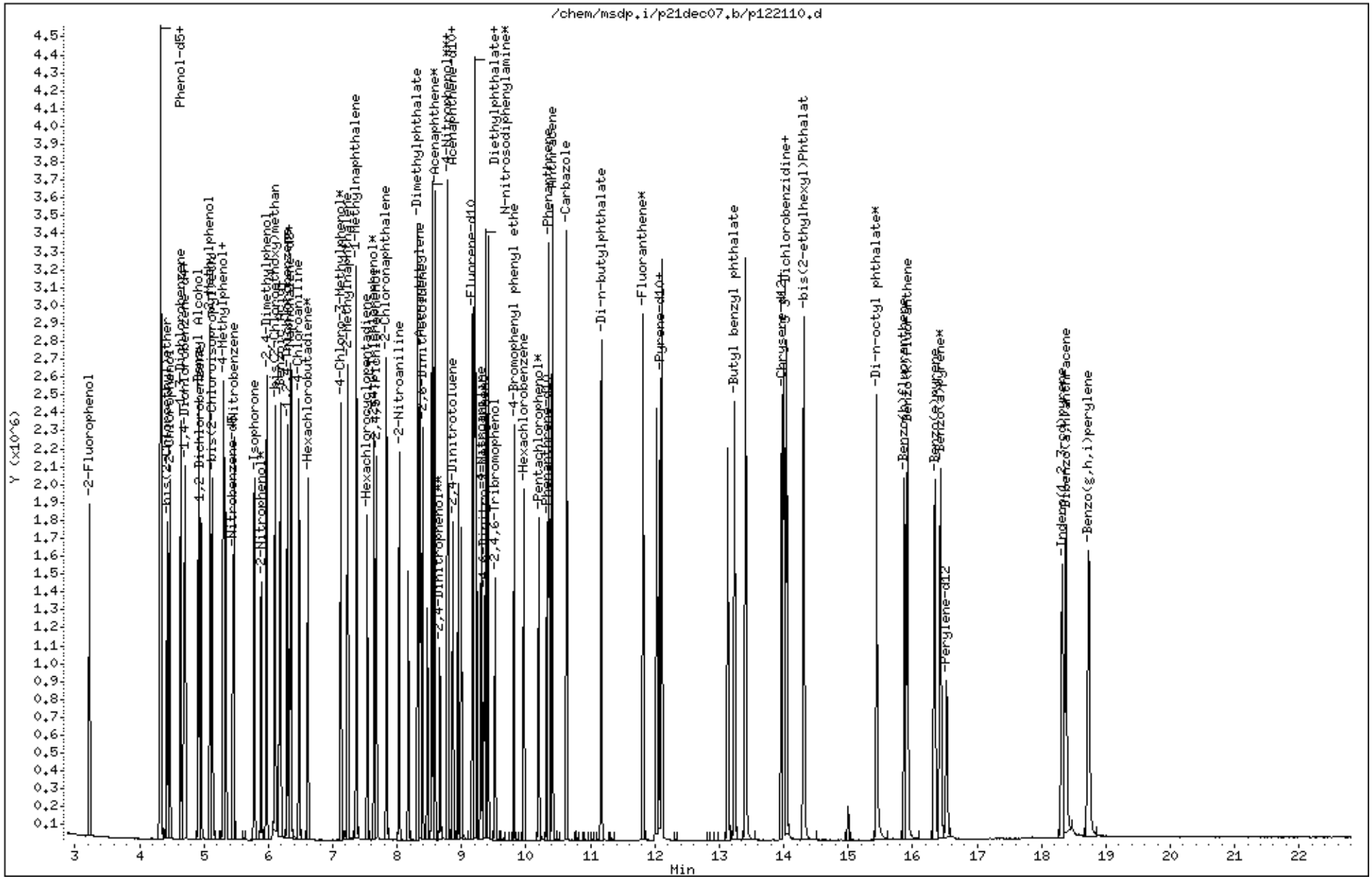
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.69	0.00
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
99 Perylene-d12	16.53	16.03	17.03	16.53	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0229

Data File: /chem/msdp.i/p21dec07.b/p122110.d
Date : 21-DEC-2007 13:51
Client ID: Level 7
Sample Info: ;1500-101-80;Level 7
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p16apr08.b/p041613.d
Lab Smp Id: 1476-412-100
Inj Date : 16-APR-2008 17:45
Operator : LP Inst ID: msdp.i
Smp Info : ;1476-412-100;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p16apr08.b/bnap1221b.m
Meth Date : 17-Apr-2008 13:59 lzhang Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 7 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Pentabenz.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 7 1,4-Dichlorobenzene-d4	150	4.310	4.310	(1.000)	261768	40.0000	
* 27 Naphthalene-d8	136	5.956	5.966	(1.000)	700679	40.0000	
* 47 Acenaphthene-d10	164	8.171	8.181	(1.000)	373861	40.0000	
* 71 Phenanthrene-d10	188	9.941	9.941	(1.000)	621440	40.0000	
* 90 Chrysene-d12	240	13.460	13.470	(1.000)	562298	40.0000	
* 99 Perylene-d12	264	15.913	15.913	(1.000)	417169	40.0000	
149 Pentachlorobenzene	250	8.440	8.440	(1.033)	366678	100.000	91.56

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p041613.d
Lab Smp Id: 1476-412-100
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p16apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 16-APR-2008
Calibration Time: 15:47
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	315188	157594	630376	261768	-16.95
27 Naphthalene-d8	717915	358958	1435830	700679	-2.40
47 Acenaphthene-d10	391485	195742	782970	373861	-4.50
71 Phenanthrene-d10	622648	311324	1245296	621440	-0.19
90 Chrysene-d12	574390	287195	1148780	562298	-2.11
99 Perylene-d12	479044	239522	958088	417169	-12.92

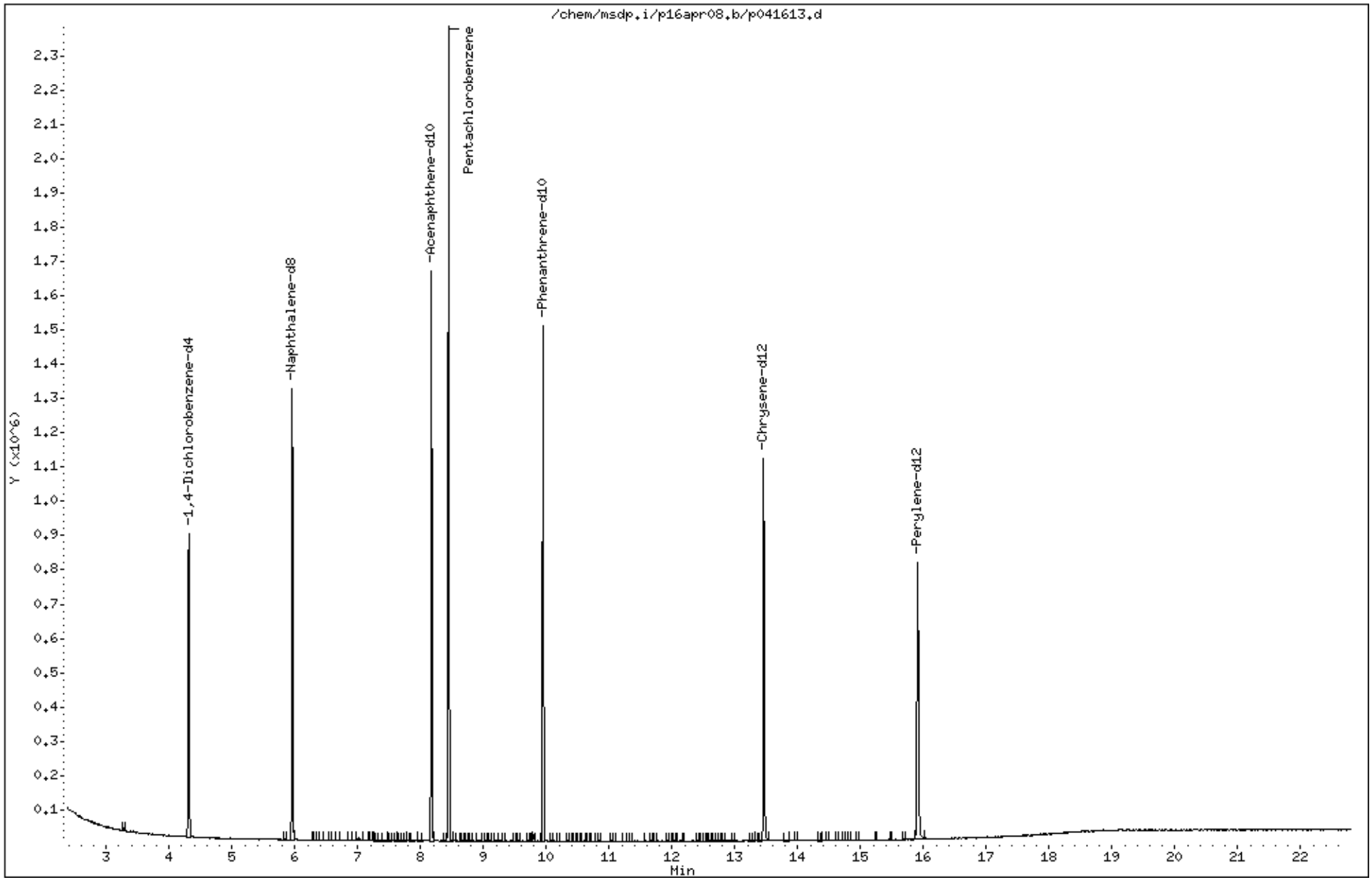
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.31	3.81	4.81	4.31	0.00
27 Naphthalene-d8	5.97	5.47	6.47	5.96	-0.17
47 Acenaphthene-d10	8.18	7.68	8.68	8.17	-0.13
71 Phenanthrene-d10	9.94	9.44	10.44	9.94	0.00
90 Chrysene-d12	13.47	12.97	13.97	13.46	-0.08
99 Perylene-d12	15.91	15.41	16.41	15.91	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0232

Data File: /chem/msdp.i/p16apr08.b/p041613.d
Date : 16-APR-2008 17:45
Client ID:
Sample Info: ;1476-412-100;
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p07mar08.b/p030711.d
Lab Smp Id: 1500-129-100 Client Smp ID: Level 8
Inj Date : 07-MAR-2008 15:26
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-129-100;Level 8
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p07mar08.b/bnap1221a.m
Meth Date : 10-Mar-2008 09:42 lpham Quant Type: ISTD
Cal Date : 07-MAR-2008 15:26 Cal File: p030711.d
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 82702surr.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 38 2-Fluorobiphenyl	172	7.522	7.522	(0.904)	1082693	100.000	84.28
$ 82 Terphenyl-d14	244	12.118	12.118	(0.887)	1108637	100.000	89.26
* 7 1,4-Dichlorobenzene-d4	150	4.458	4.458	(1.000)	281960	40.0000	
* 27 Naphthalene-d8	136	6.104	6.104	(1.000)	714463	40.0000	
* 47 Acenaphthene-d10	164	8.319	8.319	(1.000)	396579	40.0000	
* 71 Phenanthrene-d10	188	10.089	10.089	(1.000)	633937	40.0000	
* 90 Chrysene-d12	240	13.660	13.660	(1.000)	572255	40.0000	
* 99 Perylene-d12	264	16.144	16.144	(1.000)	435725	40.0000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030711.d
Lab Smp Id: 1500-129-100
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p07mar08.b/bnap1221a.m
Misc Info: ,NOTICS

Calibration Date: 07-MAR-2008
Calibration Time: 14:27
Client Smp ID: Level 8
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	278255	139128	556510	281960	1.33
27 Naphthalene-d8	720975	360488	1441950	714463	-0.90
47 Acenaphthene-d10	392938	196469	785876	396579	0.93
71 Phenanthrene-d10	633676	316838	1267352	633937	0.04
90 Chrysene-d12	567063	283532	1134126	572255	0.92
99 Perylene-d12	431347	215674	862694	435725	1.01

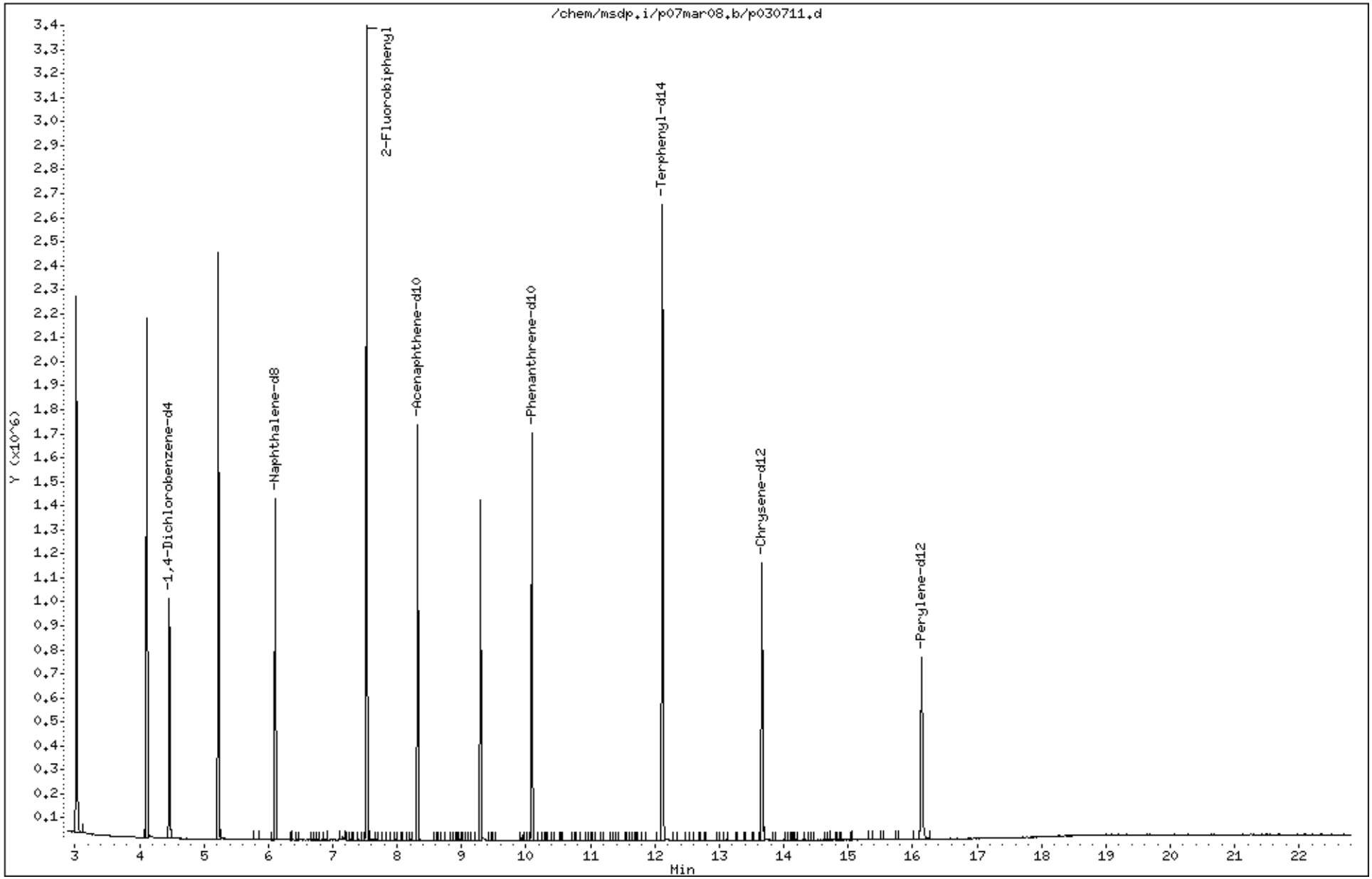
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.46	3.96	4.96	4.46	0.00
27 Naphthalene-d8	6.10	5.60	6.60	6.10	0.00
47 Acenaphthene-d10	8.32	7.82	8.82	8.32	0.00
71 Phenanthrene-d10	10.09	9.59	10.59	10.09	0.00
90 Chrysene-d12	13.66	13.16	14.16	13.66	0.00
99 Perylene-d12	16.14	15.64	16.64	16.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0235

Data File: /chem/msdp.i/p07mar08.b/p030711.d
Date : 07-MAR-2008 15:26
Client ID: Level 8
Sample Info: ;1500-129-100;Level 8
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122111.d
Lab Smp Id: 1500-101-100 Client Smp ID: Level 8
Inj Date : 21-DEC-2007 14:21
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-101-100;Level 8
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 21-Dec-2007 16:38 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 14:21 Cal File: p122111.d
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 160ng.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	2-Fluorophenol	112	3.216	3.227	(0.686)	730848	100.000	82.21
$ 2	Phenol-d5	99	4.324	4.313	(0.923)	888579	100.000	78.22
$ 17	Nitrobenzene-d5	82	5.452	5.442	(0.861)	850862	100.000	97.47
$ 62	2,4,6-Tribromophenol	330	9.530	9.520	(1.115)	176978	100.000	100.4
$ 147	Fluorene-d10	176	9.168	9.168	(1.073)	1035666	100.000	91.37
$ 148	Pyrene-d10	212	12.086	12.076	(0.863)	1467292	100.000	92.68
* 7	1,4-Dichlorobenzene-d4	150	4.686	4.686	(1.000)	374599	40.0000	
* 27	Naphthalene-d8	136	6.332	6.332	(1.000)	804409	40.0000	
* 47	Acenaphthene-d10	164	8.547	8.547	(1.000)	407731	40.0000	
* 71	Phenanthrene-d10	188	10.327	10.327	(1.000)	740223	40.0000	
* 90	Chrysene-d12	240	14.001	13.991	(1.000)	626384	40.0000	
* 99	Perylene-d12	264	16.527	16.527	(1.000)	502970	40.0000	
3	Phenol*	94	4.345	4.334	(0.927)	985730	100.000	76.78
41	Aniline	93	4.334	4.334	(0.925)	1126277	100.000	74.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
4	bis(2-Chloroethyl)ether	93	4.427	4.427	(0.945)	766015	100.000	77.90
5	2-Chlorophenol	128	4.469	4.469	(0.954)	742398	100.000	81.40
6	1,3-Dichlorobenzene	146	4.645	4.645	(0.991)	723847	100.000	76.07
9	1,4-Dichlorobenzene*	146	4.717	4.707	(1.007)	746401	100.000	75.06
10	Benzyl Alcohol	108	4.914	4.914	(1.049)	542284	100.000	83.48
11	1,2-Dichlorobenzene	146	4.955	4.945	(1.057)	715921	100.000	78.51
12	2-Methylphenol	108	5.100	5.100	(1.088)	714375	100.000	80.71
13	bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.095)	1459328	100.000	81.29
14	4-Methylphenol	108	5.297	5.297	(1.130)	765206	100.000	81.93
15	N-Nitrosodipropylamine**	70	5.317	5.307	(1.135)	573111	100.000	80.88
16	Hexachloroethane	117	5.338	5.338	(1.139)	295596	100.000	79.37
18	Nitrobenzene	77	5.473	5.462	(0.864)	840760	100.000	93.63
19	Isophorone	82	5.783	5.773	(0.913)	1465558	100.000	97.26
20	2-Nitrophenol*	139	5.887	5.887	(0.930)	423034	100.000	100.8
21	2,4-Dimethylphenol	122	5.980	5.970	(0.944)	661696	100.000	89.95
23	bis(2-Chloroethoxy)methane	93	6.104	6.104	(0.964)	911905	100.000	89.35
24	Benzoic Acid	122	6.177	6.135	(0.975)	489128	100.000	107.1
25	2,4-Dichlorophenol*	162	6.187	6.187	(0.977)	537317	100.000	90.45
26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	531131	100.000	86.02
28	Naphthalene	128	6.363	6.352	(1.005)	2070164	100.000	87.54
29	4-Chloroaniline	127	6.477	6.477	(1.023)	915113	100.000	93.90
30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	297304	100.000	88.53
32	4-Chloro-3-Methylphenol*	107	7.118	7.118	(1.124)	661535	100.000	94.85
33	2-Methylnaphthalene	142	7.243	7.232	(1.144)	1251762	100.000	87.22
145	1-Methylnaphthalene	142	7.377	7.367	(1.165)	1259887	100.000	86.13
35	Hexachlorocyclopentadiene**	237	7.532	7.532	(0.881)	338545	100.000	101.5
36	2,4,6-Trichlorophenol*	196	7.636	7.636	(0.893)	360080	100.000	98.78
37	2,4,5-Trichlorophenol	196	7.677	7.677	(0.898)	395187	100.000	101.4
39	2-Chloronaphthalene	162	7.843	7.833	(0.918)	1149329	100.000	94.81
40	2-Nitroaniline	65	8.029	8.019	(0.939)	514764	100.000	107.7
46	3-Nitroaniline	138	8.547	8.536	(1.000)	382073	100.000	101.2
42	Dimethylphthalate	163	8.329	8.319	(0.975)	1238752	100.000	93.57
44	2,6-Dinitrotoluene	165	8.391	8.391	(0.982)	324512	100.000	101.3
45	Acenaphthylene	152	8.360	8.350	(0.978)	1908482	100.000	96.80
48	Acenaphthene*	154	8.588	8.588	(1.005)	1076704	100.000	89.94
49	2,4-Dinitrophenol**	184	8.671	8.661	(1.015)	211651	100.000	121.6
50	4-Nitrophenol**	109	8.785	8.774	(1.028)	210165	100.000	100.9
52	2,4-Dinitrotoluene	165	8.868	8.857	(1.038)	447960	100.000	106.3
51	Dibenzofuran	168	8.785	8.774	(1.028)	1461812	100.000	87.57
56	Diethylphthalate	149	9.199	9.188	(1.076)	1238828	100.000	94.64
57	Fluorene	166	9.209	9.199	(1.077)	1172797	100.000	87.03
58	4-Chlorophenyl phenyl ether	204	9.230	9.230	(1.080)	563804	100.000	91.83
59	4-Nitroaniline	138	9.313	9.292	(1.090)	456733	100.000	107.6
60	4,6-Dinitro-2-methylphenol	198	9.354	9.344	(0.906)	260334	100.000	108.0
61	N-nitrosodiphenylamine*	169	9.395	9.385	(0.910)	1094185	100.000	90.07
65	4-Bromophenyl phenyl ether	248	9.820	9.809	(0.951)	335608	100.000	91.33(H)
66	Hexachlorobenzene	284	9.975	9.965	(0.966)	372998	100.000	88.38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
144 Carbazole	167	10.627	10.627	(2.268)	1710715	100.000	75.45
68 Pentachlorophenol*	266	10.192	10.192	(0.987)	242366	100.000	99.71
72 Phenanthrene	178	10.358	10.348	(1.003)	1771604	100.000	85.12
73 Anthracene	178	10.410	10.410	(1.008)	1772627	100.000	88.46
78 Di-n-butylphthalate	149	11.176	11.165	(1.082)	2318081	100.000	96.34
80 Fluoranthene*	202	11.817	11.817	(1.144)	1753422	100.000	87.97
81 Pyrene	202	12.118	12.107	(0.865)	1913406	100.000	92.35
85 Butyl benzyl phthalate	149	13.235	13.225	(0.945)	1080838	100.000	103.4
89 3 3'-Dichlorobenzidine	252	14.012	14.001	(1.001)	673155	100.000	100.9
88 Benzo(a)Anthracene	228	13.970	13.960	(0.998)	1948613	100.000	101.4
91 Chrysene	228	14.043	14.032	(1.003)	1862573	100.000	94.37
93 bis(2-ethylhexyl)Phthalate	149	14.312	14.312	(1.022)	1510806	100.000	109.6
94 Di-n-octyl phthalate*	149	15.440	15.440	(0.934)	2597480	100.000	114.1
95 Benzo(b)fluoranthene	252	15.885	15.864	(0.961)	1979797	100.000	99.91
96 Benzo(k)fluoranthene	252	15.937	15.916	(0.964)	2001183	100.000	92.64
97 Benzo(e)pyrene	252	16.351	16.340	(0.989)	1785319	100.000	93.98
98 Benzo(a)pyrene*	252	16.444	16.423	(0.995)	1848716	100.000	96.69
103 Indeno(1,2,3-cd)pyrene	276	18.328	18.307	(1.109)	1955143	100.000	101.3
104 Dibenzo(a,h)anthracene	278	18.379	18.369	(1.112)	1550704	100.000	96.04
105 Benzo(g,h,i)perylene	276	18.742	18.721	(1.134)	1733707	100.000	96.93

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122111.d
Lab Smp Id: 1500-101-100
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: Level 8
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	374599	28.74
27 Naphthalene-d8	673378	336689	1346756	804409	19.46
47 Acenaphthene-d10	362252	181126	724504	407731	12.55
71 Phenanthrene-d10	605762	302881	1211524	740223	22.20
90 Chrysene-d12	511454	255727	1022908	626384	22.47
99 Perylene-d12	379203	189602	758406	502970	32.64

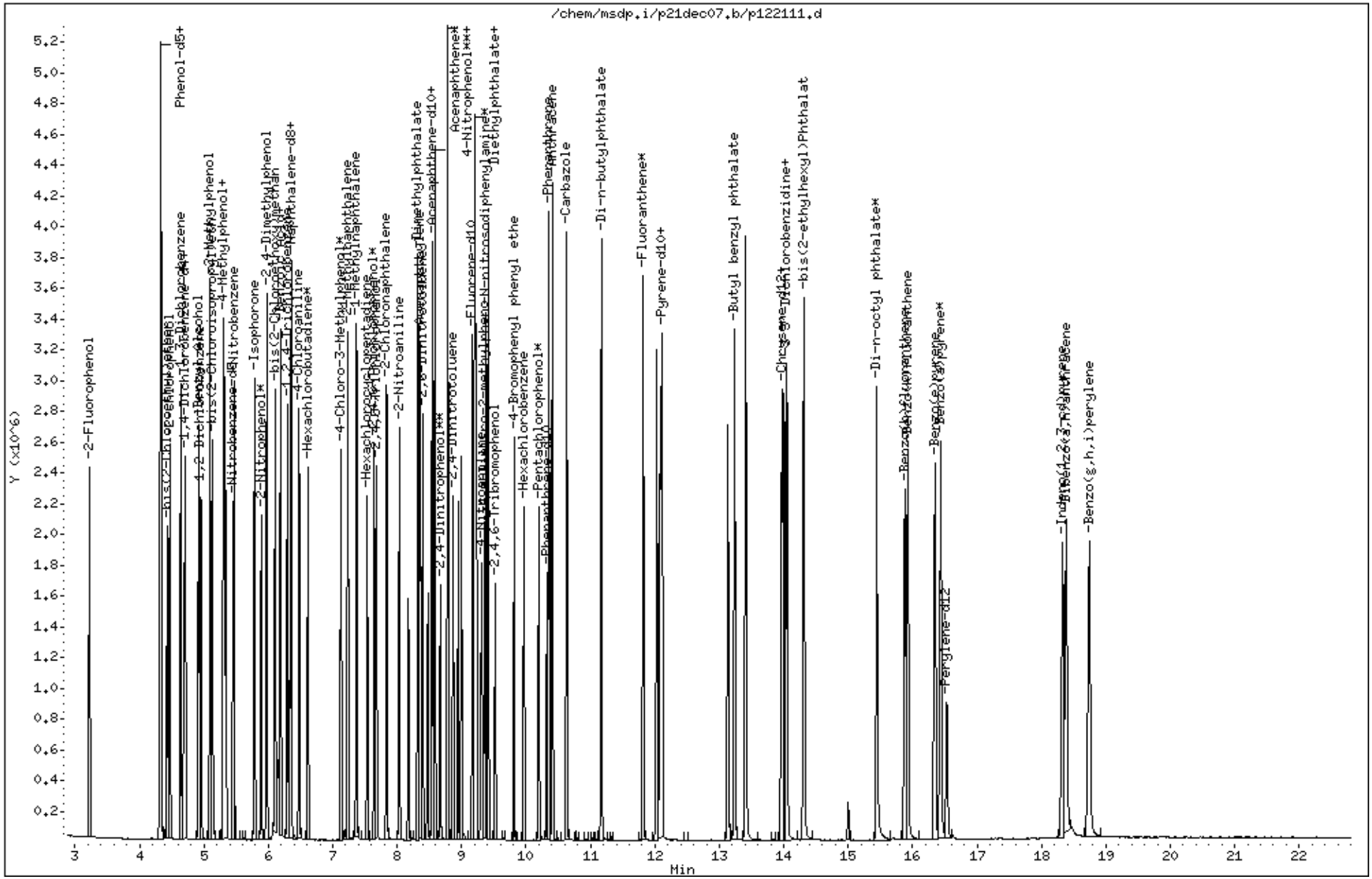
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.69	0.00
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	14.00	0.07
99 Perylene-d12	16.53	16.03	17.03	16.53	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0240

Data File: /chem/msdp.i/p21dec07.b/p122111.d
Date : 21-DEC-2007 14:21
Client ID: Level 8
Sample Info: ;1500-101-100;Level 8
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p21dec07.b/p122112.d
Lab Smp Id: 1500-101-160 Client Smp ID: Level 9
Inj Date : 21-DEC-2007 14:50
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-101-160;Level 9
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p21dec07.b/bnap1221.m
Meth Date : 21-Dec-2007 16:38 lpham Quant Type: ISTD
Cal Date : 21-DEC-2007 14:50 Cal File: p122112.d
Als bottle: 12 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 160ng.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	2-Fluorophenol	112	3.227	3.227	(0.687)	1078325	160.000	121.5
$ 2	Phenol-d5	99	4.334	4.313	(0.923)	1272043	160.000	113.0
$ 17	Nitrobenzene-d5	82	5.452	5.442	(0.861)	1261388	160.000	150.8
$ 62	2,4,6-Tribromophenol	330	9.530	9.520	(1.115)	257669	160.000	151.9
$ 147	Fluorene-d10	176	9.178	9.168	(1.074)	1549052	160.000	142.9
$ 148	Pyrene-d10	212	12.097	12.076	(0.864)	2129117	160.000	147.0
* 7	1,4-Dichlorobenzene-d4	150	4.696	4.686	(1.000)	386864	40.0000	
* 27	Naphthalene-d8	136	6.332	6.332	(1.000)	776122	40.0000	
* 47	Acenaphthene-d10	164	8.547	8.547	(1.000)	395062	40.0000	
* 71	Phenanthrene-d10	188	10.327	10.327	(1.000)	732287	40.0000	
* 90	Chrysene-d12	240	14.001	13.991	(1.000)	578880	40.0000	
* 99	Perylene-d12	264	16.537	16.527	(1.000)	481632	40.0000	
3	Phenol*	94	4.344	4.334	(0.925)	1378792	160.000	108.8
41	Aniline	93	4.334	4.334	(0.923)	1580628	160.000	106.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
4	bis(2-Chloroethyl)ether	93	4.438	4.427	(0.945)	1147076	160.000	116.8
5	2-Chlorophenol	128	4.469	4.469	(0.952)	1089389	160.000	119.8
6	1,3-Dichlorobenzene	146	4.645	4.645	(0.989)	1037074	160.000	109.7
9	1,4-Dichlorobenzene*	146	4.717	4.707	(1.004)	1067241	160.000	108.1
10	Benzyl Alcohol	108	4.924	4.914	(1.048)	775957	160.000	119.3
11	1,2-Dichlorobenzene	146	4.955	4.945	(1.055)	1015050	160.000	111.8
12	2-Methylphenol	108	5.100	5.100	(1.086)	1038782	160.000	117.9
13	bis(2-Chloroisopropyl)ether	45	5.131	5.131	(1.093)	2111444	160.000	117.6
14	4-Methylphenol	108	5.307	5.297	(1.130)	1063572	160.000	114.7
15	N-Nitrosodipropylamine**	70	5.328	5.307	(1.134)	821969	160.000	116.2
16	Hexachloroethane	117	5.338	5.338	(1.137)	413350	160.000	111.5
18	Nitrobenzene	77	5.473	5.462	(0.864)	1251893	160.000	146.1
19	Isophorone	82	5.794	5.773	(0.915)	2195623	160.000	152.0
20	2-Nitrophenol*	139	5.887	5.887	(0.930)	597959	160.000	149.0
21	2,4-Dimethylphenol	122	5.980	5.970	(0.944)	967513	160.000	138.9
23	bis(2-Chloroethoxy)methane	93	6.114	6.104	(0.966)	1355819	160.000	139.8
24	Benzoic Acid	122	6.218	6.135	(0.982)	786717	160.000	175.2(A)
25	2,4-Dichlorophenol*	162	6.197	6.187	(0.979)	771783	160.000	137.4
26	1,2,4-Trichlorobenzene	180	6.290	6.290	(0.993)	774294	160.000	132.7
28	Naphthalene	128	6.363	6.352	(1.005)	2898949	160.000	130.0
29	4-Chloroaniline	127	6.487	6.477	(1.025)	1326765	160.000	143.5
30	Hexachlorobutadiene*	225	6.611	6.611	(1.044)	413030	160.000	130.4
32	4-Chloro-3-Methylphenol*	107	7.129	7.118	(1.126)	974917	160.000	146.6
33	2-Methylnaphthalene	142	7.243	7.232	(1.144)	1730649	160.000	128.1
145	1-Methylnaphthalene	142	7.377	7.367	(1.165)	1798139	160.000	130.4
35	Hexachlorocyclopentadiene**	237	7.532	7.532	(0.881)	507089	160.000	157.5
36	2,4,6-Trichlorophenol*	196	7.646	7.636	(0.895)	536232	160.000	152.8
37	2,4,5-Trichlorophenol	196	7.688	7.677	(0.899)	564874	160.000	150.9
39	2-Chloronaphthalene	162	7.843	7.833	(0.918)	1588821	160.000	137.6
40	2-Nitroaniline	65	8.029	8.019	(0.939)	797364	160.000	170.6(A)
46	3-Nitroaniline	138	8.557	8.536	(1.001)	552745	160.000	152.3
42	Dimethylphthalate	163	8.329	8.319	(0.975)	1741411	160.000	138.4
44	2,6-Dinitrotoluene	165	8.402	8.391	(0.983)	483291	160.000	156.3
45	Acenaphthylene	152	8.360	8.350	(0.978)	2720598	160.000	144.2
48	Acenaphthene*	154	8.598	8.588	(1.006)	1576278	160.000	138.2
49	2,4-Dinitrophenol**	184	8.681	8.661	(1.016)	325879	160.000	186.8(A)
50	4-Nitrophenol**	109	8.795	8.774	(1.029)	331419	160.000	163.5(A)
52	2,4-Dinitrotoluene	165	8.878	8.857	(1.039)	667633	160.000	163.1(A)
51	Dibenzofuran	168	8.785	8.774	(1.028)	2073948	160.000	131.1
56	Diethylphthalate	149	9.199	9.188	(1.076)	1707561	160.000	137.3
57	Fluorene	166	9.209	9.199	(1.077)	1520341	160.000	120.1
58	4-Chlorophenyl phenyl ether	204	9.230	9.230	(1.080)	777113	160.000	133.3
59	4-Nitroaniline	138	9.323	9.292	(1.091)	646592	160.000	157.6
60	4,6-Dinitro-2-methylphenol	198	9.364	9.344	(0.907)	390402	160.000	163.2(A)
61	N-nitrosodiphenylamine*	169	9.395	9.385	(0.910)	1483847	160.000	127.6
65	4-Bromophenyl phenyl ether	248	9.820	9.809	(0.951)	476184	160.000	133.7
66	Hexachlorobenzene	284	9.975	9.965	(0.966)	524356	160.000	128.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
144	Carbazole	167	10.637	10.627	(2.265)	2630560	160.000	116.2
68	Pentachlorophenol*	266	10.203	10.192	(0.988)	354711	160.000	149.4
72	Phenanthrene	178	10.358	10.348	(1.003)	2638473	160.000	131.0
73	Anthracene	178	10.420	10.410	(1.009)	2631860	160.000	135.3
78	Di-n-butylphthalate	149	11.176	11.165	(1.082)	3212747	160.000	137.6
80	Fluoranthene*	202	11.828	11.817	(1.145)	2595492	160.000	134.3
81	Pyrene	202	12.118	12.107	(0.865)	2650390	160.000	140.5
85	Butyl benzyl phthalate	149	13.235	13.225	(0.945)	1585910	160.000	163.6(A)
89	3 3'-Dichlorobenzidine	252	14.022	14.001	(1.001)	999972	160.000	161.8(A)
88	Benzo(a)Anthracene	228	13.981	13.960	(0.999)	2845800	160.000	160.2(A)
91	Chrysene	228	14.053	14.032	(1.004)	2711280	160.000	149.8
93	bis(2-ethylhexyl)Phthalate	149	14.312	14.312	(1.022)	2212162	160.000	171.9(A)
94	Di-n-octyl phthalate*	149	15.450	15.440	(0.934)	3875316	160.000	175.4(A)
95	Benzo(b)fluoranthene	252	15.895	15.864	(0.961)	3024791	160.000	159.5
96	Benzo(k)fluoranthene	252	15.947	15.916	(0.964)	2892366	160.000	141.8
97	Benzo(e)pyrene	252	16.371	16.340	(0.990)	2635079	160.000	146.4
98	Benzo(a)pyrene*	252	16.454	16.423	(0.995)	2502504	160.000	138.9(H)
103	Indeno(1,2,3-cd)pyrene	276	18.338	18.307	(1.109)	2937006	160.000	159.1
104	Dibenzo(a,h)anthracene	278	18.400	18.369	(1.113)	2278461	160.000	148.7
105	Benzo(g,h,i)perylene	276	18.762	18.721	(1.135)	2594990	160.000	152.4

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p122112.d
Lab Smp Id: 1500-101-160
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p21dec07.b/bnap1221.m
Misc Info: ,NOTICS

Calibration Date: 21-DEC-2007
Calibration Time: 13:22
Client Smp ID: Level 9
Level: LOW
Sample Type: PUF/XAD

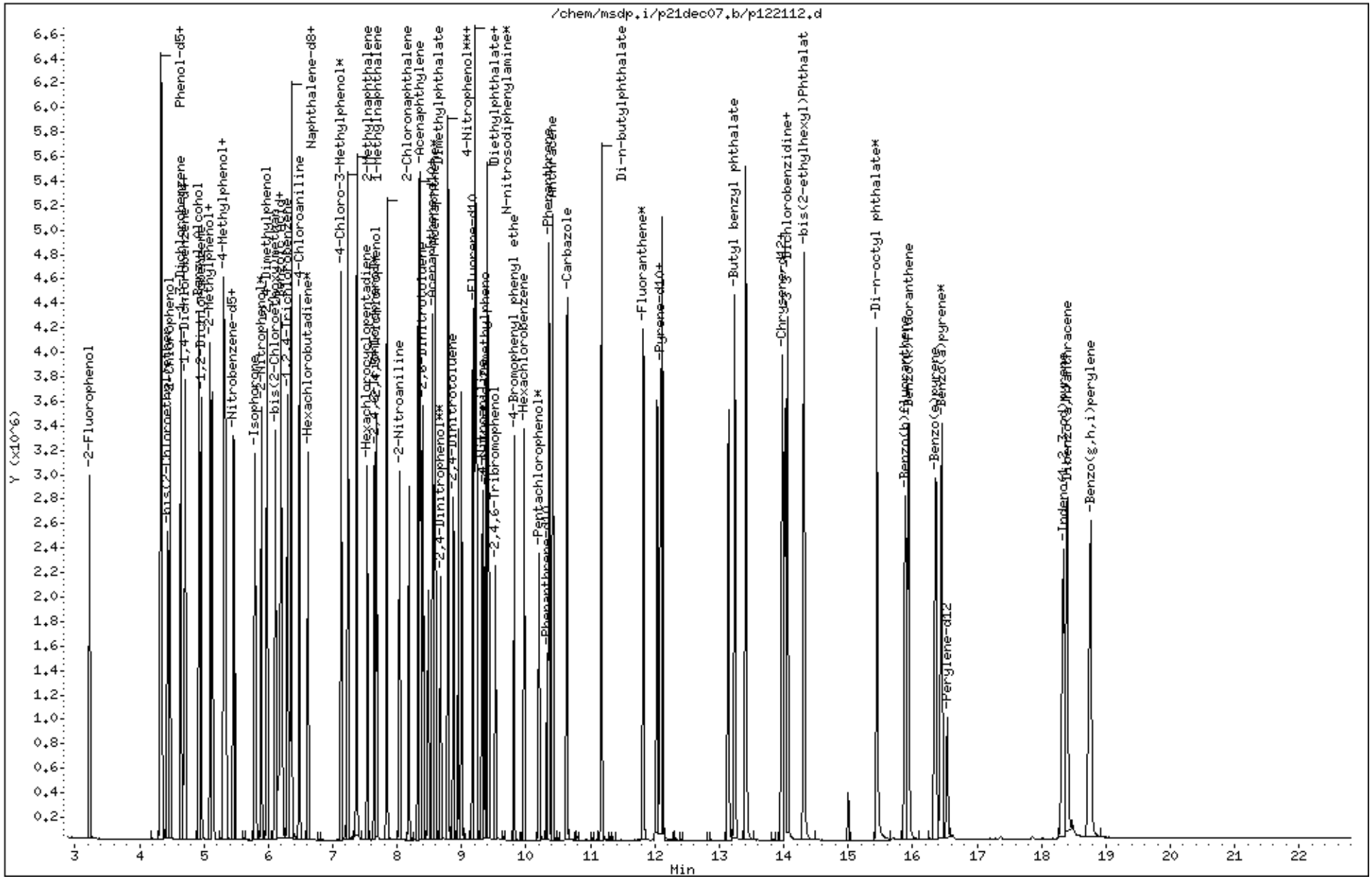
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	290980	145490	581960	386864	32.95
27 Naphthalene-d8	673378	336689	1346756	776122	15.26
47 Acenaphthene-d10	362252	181126	724504	395062	9.06
71 Phenanthrene-d10	605762	302881	1211524	732287	20.89
90 Chrysene-d12	511454	255727	1022908	578880	13.18
99 Perylene-d12	379203	189602	758406	481632	27.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.69	4.19	5.19	4.70	0.22
27 Naphthalene-d8	6.33	5.83	6.83	6.33	0.00
47 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
71 Phenanthrene-d10	10.33	9.83	10.83	10.33	0.00
90 Chrysene-d12	13.99	13.49	14.49	14.00	0.07
99 Perylene-d12	16.53	16.03	17.03	16.54	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdp.i/p21dec07.b/p122112.d
Date : 21-DEC-2007 14:50
Client ID: Level 9
Instrument: msdp.i
Sample Info: ;1500-101-160;Level 9
Volume Injected (uL): 1.0
Operator: LP
Column phase: DB-5.625
Column diameter: 0.25

0245



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 28-APR-2008 10:57
Lab File ID: p042803.d Init. Cal. Date(s): 21-DEC-2007 16-APR-2008
Analysis Type: PUF/XAD Init. Cal. Times: 10:54 17:45
Lab Sample ID: 1500-139-50 Quant Type: ISTD
Method: /chem/msdp.i/p28apr08.b/bnap1221b.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	0.91768	0.97959	0.050	-6.74683	30.00000	Averaged
$ 2 Phenol-d5	1.16420	1.14498	0.050	1.65088	30.00000	Averaged
3 Phenol*	1.31083	1.39856	0.050	-6.69261	30.00000	Averaged
41 Aniline	1.54026	1.64663	0.050	-6.90591	30.00000	Averaged
4 bis(2-Chloroethyl)ether	1.01574	1.05507	0.050	-3.87177	30.00000	Averaged
5 2-Chlorophenol	0.94017	0.95911	0.050	-2.01433	30.00000	Averaged
6 1,3-Dichlorobenzene	0.97762	1.04700	0.050	-7.09732	30.00000	Averaged
9 1,4-Dichlorobenzene*	1.02053	1.07918	0.050	-5.74754	30.00000	Averaged
10 Benzyl Alcohol	0.67230	0.66113	0.050	1.66072	30.00000	Averaged
11 1,2-Dichlorobenzene	0.93838	0.98230	0.050	-4.67967	30.00000	Averaged
12 2-Methylphenol	0.91089	0.92480	0.050	-1.52682	30.00000	Averaged
13 bis(2-Chloroisopropyl)ether	1.85564	1.80901	0.050	2.51269	30.00000	Averaged
14 4-Methylphenol	0.95850	1.01935	0.050	-6.34824	30.00000	Averaged
15 N-Nitrosodipropylamine**	0.73161	0.75223	0.050	-2.81795	30.00000	Averaged
16 Hexachloroethane	0.38318	0.38340	0.050	-0.05740	30.00000	Averaged
$ 17 Nitrobenzene-d5	0.43098	0.49881	0.050	-15.73961	30.00000	Averaged
18 Nitrobenzene	0.44170	0.50956	0.050	-15.36377	30.00000	Averaged
19 Isophorone	0.74463	0.83464	0.050	-12.08842	30.00000	Averaged
20 2-Nitrophenol*	0.20676	0.25939	0.050	-25.45132	30.00000	Averaged
21 2,4-Dimethylphenol	0.35904	0.37985	0.050	-5.79563	30.00000	Averaged
24 Benzoic Acid	0.23147	0.22893	0.050	1.09617	30.00000	Averaged
23 bis(2-Chloroethoxy)methane	0.49962	0.54092	0.050	-8.26614	30.00000	Averaged
25 2,4-Dichlorophenol*	0.28954	0.34794	0.050	-20.16767	30.00000	Averaged
26 1,2,4-Trichlorobenzene	0.30064	0.34859	0.050	-15.94935	30.00000	Averaged
28 Naphthalene	1.14897	1.18979	0.050	-3.55286	30.00000	Averaged
29 4-Chloroaniline	0.47642	0.51605	0.050	-8.31937	30.00000	Averaged
30 Hexachlorobutadiene*	0.16322	0.19267	0.050	-18.03994	30.00000	Averaged
32 4-Chloro-3-Methylphenol*	0.34273	0.37431	0.050	-9.21603	30.00000	Averaged
33 2-Methylnaphthalene	0.69633	0.78581	0.050	-12.85026	30.00000	Averaged
145 1-Methylnaphthalene	0.71088	0.81130	0.050	-14.12622	30.00000	Averaged
35 Hexachlorocyclopentadiene**	0.32604	0.28900	0.050	11.36089	30.00000	Averaged
36 2,4,6-Trichlorophenol*	0.35534	0.42704	0.050	-20.17876	30.00000	Averaged
37 2,4,5-Trichlorophenol	0.37909	0.46055	0.050	-21.48726	30.00000	Averaged
39 2-Chloronaphthalene	1.16887	1.36231	0.050	-16.54971	30.00000	Averaged
40 2-Nitroaniline	0.47317	0.50270	0.050	-6.23917	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 28-APR-2008 10:57
Lab File ID: p042803.d Init. Cal. Date(s): 21-DEC-2007 16-APR-2008
Analysis Type: PUF/XAD Init. Cal. Times: 10:54 17:45
Lab Sample ID: 1500-139-50 Quant Type: ISTD
Method: /chem/msdp.i/p28apr08.b/bnap1221b.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
42 Dimethylphthalate	1.27420	1.45870	0.050	-14.47968	30.00000	Averaged
44 2,6-Dinitrotoluene	0.31311	0.36840	0.050	-17.65736	30.00000	Averaged
45 Acenaphthylene	1.91052	2.17734	0.050	-13.96585	30.00000	Averaged
46 3-Nitroaniline	0.36749	0.46822	0.050	-27.41160	30.00000	Averaged
48 Acenaphthene*	1.15477	1.30112	0.050	-12.67344	30.00000	Averaged
49 2,4-Dinitrophenol**	0.17661	0.08854	0.050	49.86451	30.00000	Averaged<-
50 4-Nitrophenol**	0.20524	0.24031	0.050	-17.09020	30.00000	Averaged
51 Dibenzofuran	1.60158	1.89245	0.050	-18.16135	30.00000	Averaged
52 2,4-Dinitrotoluene	0.41446	0.48743	0.050	-17.60560	30.00000	Averaged
56 Diethylphthalate	1.25878	1.50645	0.050	-19.67579	30.00000	Averaged
$ 147 Fluorene-d10	1.09735	1.22455	0.050	-11.59145	30.00000	Averaged
58 4-Chlorophenyl phenyl ether	0.59005	0.69319	0.050	-17.47878	30.00000	Averaged
57 Fluorene	1.28202	1.49978	0.050	-16.98583	30.00000	Averaged
59 4-Nitroaniline	0.41540	0.46795	0.050	-12.64999	30.00000	Averaged
60 4,6-Dinitro-2-methylphenol	0.13068	0.12689	0.050	2.90422	30.00000	Averaged
61 N-nitrosodiphenylamine*	0.63507	0.80181	0.050	-26.25539	30.00000	Averaged
$ 62 2,4,6-Tribromophenol	0.17174	0.21839	0.050	-27.16357	30.00000	Averaged
65 4-Bromophenyl phenyl ether	0.19457	0.25429	0.050	-30.69416	30.00000	Averaged<-
66 Hexachlorobenzene	0.22261	0.28127	0.050	-26.35263	30.00000	Averaged
68 Pentachlorophenol*	0.12964	0.12116	0.050	6.53942	30.00000	Averaged
72 Phenanthrene	1.09980	1.34392	0.050	-22.19627	30.00000	Averaged
73 Anthracene	1.06237	1.28739	0.050	-21.18187	30.00000	Averaged
144 Carbazole	2.34093	2.49421	0.050	-6.54770	30.00000	Averaged
78 Di-n-butylphthalate	1.27484	1.62638	0.050	-27.57548	30.00000	Averaged
$ 83 Fluoranthene-d10	0.87915	0.99742	0.050	-13.45328	30.00000	Averaged
80 Fluoranthene*	1.05581	1.29136	0.050	-22.31052	30.00000	Averaged
$ 148 Pyrene-d10	1.00085	1.12766	0.050	-12.66988	30.00000	Averaged
81 Pyrene	1.30320	1.47419	0.050	-13.12113	30.00000	Averaged
85 Butyl benzyl phthalate	0.66970	0.78082	0.050	-16.59254	30.00000	Averaged
89 3 3'-Dichlorobenzidine	0.42711	0.49714	0.050	-16.39575	30.00000	Averaged
88 Benzo(a)Anthracene	1.22768	1.44987	0.050	-18.09857	30.00000	Averaged
91 Chrysene	1.25045	1.37824	0.050	-10.21951	30.00000	Averaged
93 bis(2-ethylhexyl)Phthalate	0.88925	1.10659	0.050	-24.44096	30.00000	Averaged
94 Di-n-octyl phthalate*	1.83520	2.37093	0.050	-29.19230	30.00000	Averaged
95 Benzo(b)fluoranthene	1.57524	1.88104	0.050	-19.41299	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 28-APR-2008 10:57
Lab File ID: p042803.d Init. Cal. Date(s): 21-DEC-2007 16-APR-2008
Analysis Type: PUF/XAD Init. Cal. Times: 10:54 17:45
Lab Sample ID: 1500-139-50 Quant Type: ISTD
Method: /chem/msdp.i/p28apr08.b/bnap1221b.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
96 Benzo(k)fluoranthene	1.69387	1.76324	0.050	-4.09566	30.00000	Averaged
97 Benzo(e)pyrene	1.49485	1.67375	0.050	-11.96741	30.00000	Averaged
$ 101 Benzo(a)pyrene-d12	1.02065	1.15658	0.050	-13.31798	30.00000	Averaged
98 Benzo(a)pyrene*	1.49588	1.72443	0.050	-15.27816	30.00000	Averaged
103 Indeno(1,2,3-cd)pyrene	1.53331	1.82767	0.050	-19.19703	30.00000	Averaged
104 Dibenzo(a,h)anthracene	1.27288	1.46148	0.050	-14.81709	30.00000	Averaged
105 Benzo(g,h,i)perylene	1.41400	1.62271	0.050	-14.76034	30.00000	Averaged

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042803.d
Lab Smp Id: 1500-139-50 Client Smp ID: CCV
Inj Date : 28-APR-2008 10:57
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-139-50;CCV
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 50ccv.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
$	1	2-Fluorophenol	112	2.882	2.882	(0.675)	315473	50.0000	53.37
$	2	Phenol-d5	99	3.969	3.969	(0.930)	368734	50.0000	49.17
	3	Phenol*	94	3.989	3.989	(0.935)	450398	50.0000	53.35
	41	Aniline	93	3.927	3.927	(0.920)	530290	50.0000	53.45
	4	bis(2-Chloroethyl)ether	93	4.021	4.021	(0.942)	339780	50.0000	51.94
	5	2-Chlorophenol	128	4.062	4.062	(0.952)	308877	50.0000	51.01
	6	1,3-Dichlorobenzene	146	4.217	4.217	(0.988)	337181	50.0000	53.55
*	7	1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	257636	40.0000	
	9	1,4-Dichlorobenzene*	146	4.290	4.290	(1.005)	347546	50.0000	52.87
	10	Benzyl Alcohol	108	4.528	4.528	(1.061)	212914	50.0000	49.17
	11	1,2-Dichlorobenzene	146	4.538	4.538	(1.063)	316344	50.0000	52.34
	12	2-Methylphenol	108	4.745	4.745	(1.112)	297827	50.0000	50.76
	13	bis(2-Chloroisopropyl)ether	45	4.724	4.724	(1.107)	582583	50.0000	48.74

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	14 4-Methylphenol	108	4.952	4.952	(1.160)	328277	50.0000	53.17
	15 N-Nitrosodipropylamine**	70	4.911	4.911	(1.150)	242252	50.0000	51.41
	16 Hexachloroethane	117	4.921	4.921	(1.153)	123471	50.0000	50.03
$	17 Nitrobenzene-d5	82	5.045	5.045	(0.852)	360337	50.0000	57.87
	18 Nitrobenzene	77	5.066	5.066	(0.855)	368098	50.0000	57.68
	19 Isophorone	82	5.376	5.376	(0.907)	602935	50.0000	56.04
	20 2-Nitrophenol*	139	5.480	5.480	(0.925)	187380	50.0000	62.72
	21 2,4-Dimethylphenol	122	5.614	5.614	(0.948)	274396	50.0000	52.90
	24 Benzoic Acid	122	5.852	5.852	(0.988)	165378	50.0000	49.45
	23 bis(2-Chloroethoxy)methane	93	5.718	5.718	(0.965)	390753	50.0000	54.13
	25 2,4-Dichlorophenol*	162	5.821	5.821	(0.983)	251346	50.0000	60.08
	26 1,2,4-Trichlorobenzene	180	5.894	5.894	(0.995)	251819	50.0000	57.97
*	27 Naphthalene-d8	136	5.925	5.925	(1.000)	577911	40.0000	
	28 Naphthalene	128	5.956	5.956	(1.005)	859491	50.0000	51.78
	29 4-Chloroaniline	127	6.101	6.101	(1.030)	372792	50.0000	54.16
	30 Hexachlorobutadiene*	225	6.215	6.215	(1.049)	139182	50.0000	59.02(H)
	32 4-Chloro-3-Methylphenol*	107	6.784	6.784	(1.145)	270399	50.0000	54.61
	33 2-Methylnaphthalene	142	6.836	6.836	(1.154)	567658	50.0000	56.42
	145 1-Methylnaphthalene	142	6.970	6.970	(1.176)	586073	50.0000	57.06
	35 Hexachlorocyclopentadiene**	237	7.136	7.136	(0.877)	109825	50.0000	44.32
	36 2,4,6-Trichlorophenol*	196	7.260	7.260	(0.892)	162286	50.0000	60.09
	37 2,4,5-Trichlorophenol	196	7.322	7.322	(0.900)	175018	50.0000	60.74
	39 2-Chloronaphthalene	162	7.436	7.436	(0.914)	517710	50.0000	58.27
	40 2-Nitroaniline	65	7.643	7.643	(0.939)	191036	50.0000	53.12
	42 Dimethylphthalate	163	7.943	7.943	(0.976)	554339	50.0000	57.24
	44 2,6-Dinitrotoluene	165	8.005	8.005	(0.983)	139999	50.0000	58.83
	45 Acenaphthylene	152	7.954	7.954	(0.977)	827438	50.0000	56.98
	46 3-Nitroaniline	138	8.171	8.171	(1.004)	177935	50.0000	63.70
*	47 Acenaphthene-d10	164	8.140	8.140	(1.000)	304018	40.0000	
	48 Acenaphthene*	154	8.181	8.181	(1.005)	494455	50.0000	56.34
	49 2,4-Dinitrophenol**	184	8.295	8.295	(1.019)	33649	50.0000	25.07(M)
	50 4-Nitrophenol**	109	8.481	8.481	(1.042)	91325	50.0000	58.54
	51 Dibenzofuran	168	8.378	8.378	(1.029)	719172	50.0000	59.08
	52 2,4-Dinitrotoluene	165	8.471	8.471	(1.041)	185233	50.0000	58.80
	56 Diethylphthalate	149	8.802	8.802	(1.081)	572486	50.0000	59.84
$	147 Fluorene-d10	176	8.761	8.761	(1.076)	465356	50.0000	55.80
	58 4-Chlorophenyl phenyl ether	204	8.833	8.833	(1.085)	263426	50.0000	58.74
	57 Fluorene	166	8.792	8.792	(1.080)	569950	50.0000	58.49
	59 4-Nitroaniline	138	8.916	8.916	(1.095)	177830	50.0000	56.32
	60 4,6-Dinitro-2-methylphenol	198	8.958	8.958	(0.904)	78588	50.0000	48.55
	61 N-nitrosodiphenylamine*	169	8.989	8.989	(0.907)	496600	50.0000	63.13
$	62 2,4,6-Tribromophenol	330	9.123	9.123	(1.121)	82992	50.0000	63.58
	65 4-Bromophenyl phenyl ether	248	9.413	9.413	(0.950)	157493	50.0000	65.35(H)
	66 Hexachlorobenzene	284	9.558	9.558	(0.964)	174204	50.0000	63.18
	68 Pentachlorophenol*	266	9.796	9.796	(0.988)	75041	50.0000	46.73
*	71 Phenanthrene-d10	188	9.910	9.910	(1.000)	495479	40.0000	
	72 Phenanthrene	178	9.941	9.941	(1.003)	832353	50.0000	61.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	73 Anthracene	178	9.993	9.993	(1.008)	797346	50.0000	60.59
	144 Carbazole	167	10.231	10.231	(2.397)	803248	50.0000	53.27
	78 Di-n-butylphthalate	149	10.779	10.779	(1.088)	1007299	50.0000	63.79
$	83 Fluoranthene-d10	212	11.348	11.348	(1.145)	617753	50.0000	56.73
	80 Fluoranthene*	202	11.380	11.380	(1.148)	799805	50.0000	61.16
$	148 Pyrene-d10	212	11.618	11.618	(0.866)	659899	50.0000	56.33
	81 Pyrene	202	11.638	11.638	(0.867)	862690	50.0000	56.56
	85 Butyl benzyl phthalate	149	12.725	12.725	(0.948)	456932	50.0000	58.30
	89 3 3'-Dichlorobenzidine	252	13.450	13.450	(1.002)	290921	50.0000	58.20
	88 Benzo(a)Anthracene	228	13.398	13.398	(0.998)	848459	50.0000	59.05
*	90 Chrysene-d12	240	13.419	13.419	(1.000)	468156	40.0000	
	91 Chrysene	228	13.460	13.460	(1.003)	806537	50.0000	55.11
	93 bis(2-ethylhexyl)Phthalate	149	13.760	13.760	(1.025)	647573	50.0000	62.22
	94 Di-n-octyl phthalate*	149	14.847	14.847	(0.944)	1101314	50.0000	64.60
	95 Benzo(b)fluoranthene	252	15.230	15.230	(0.968)	873753	50.0000	59.71
	96 Benzo(k)fluoranthene	252	15.271	15.271	(0.971)	819037	50.0000	52.05(H)
	97 Benzo(e)pyrene	252	15.685	15.685	(0.997)	777466	50.0000	55.98(H)
$	101 Benzo(a)pyrene-d12	264	15.727	15.727	(1.000)	537238	50.0000	56.66
	98 Benzo(a)pyrene*	252	15.768	15.768	(1.003)	801007	50.0000	57.64(H)
*	99 Perylene-d12	264	15.861	15.861	(1.000)	371605	40.0000	(H)
	103 Indeno(1,2,3-cd)pyrene	276	17.610	17.610	(1.110)	848962	50.0000	59.60(M)
	104 Dibenzo(a,h)anthracene	278	17.672	17.672	(1.124)	678867	50.0000	57.41
	105 Benzo(g,h,i)perylene	276	18.004	18.004	(1.145)	753757	50.0000	57.38

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042803.d
Lab Smp Id: 1500-139-50
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Client Smp ID: CCV
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	257636	0.00
27 Naphthalene-d8	577911	288956	1155822	577911	0.00
47 Acenaphthene-d10	304018	152009	608036	304018	0.00
71 Phenanthrene-d10	495479	247740	990958	495479	0.00
90 Chrysene-d12	468156	234078	936312	468156	0.00
99 Perylene-d12	371605	185802	743210	371605	0.00

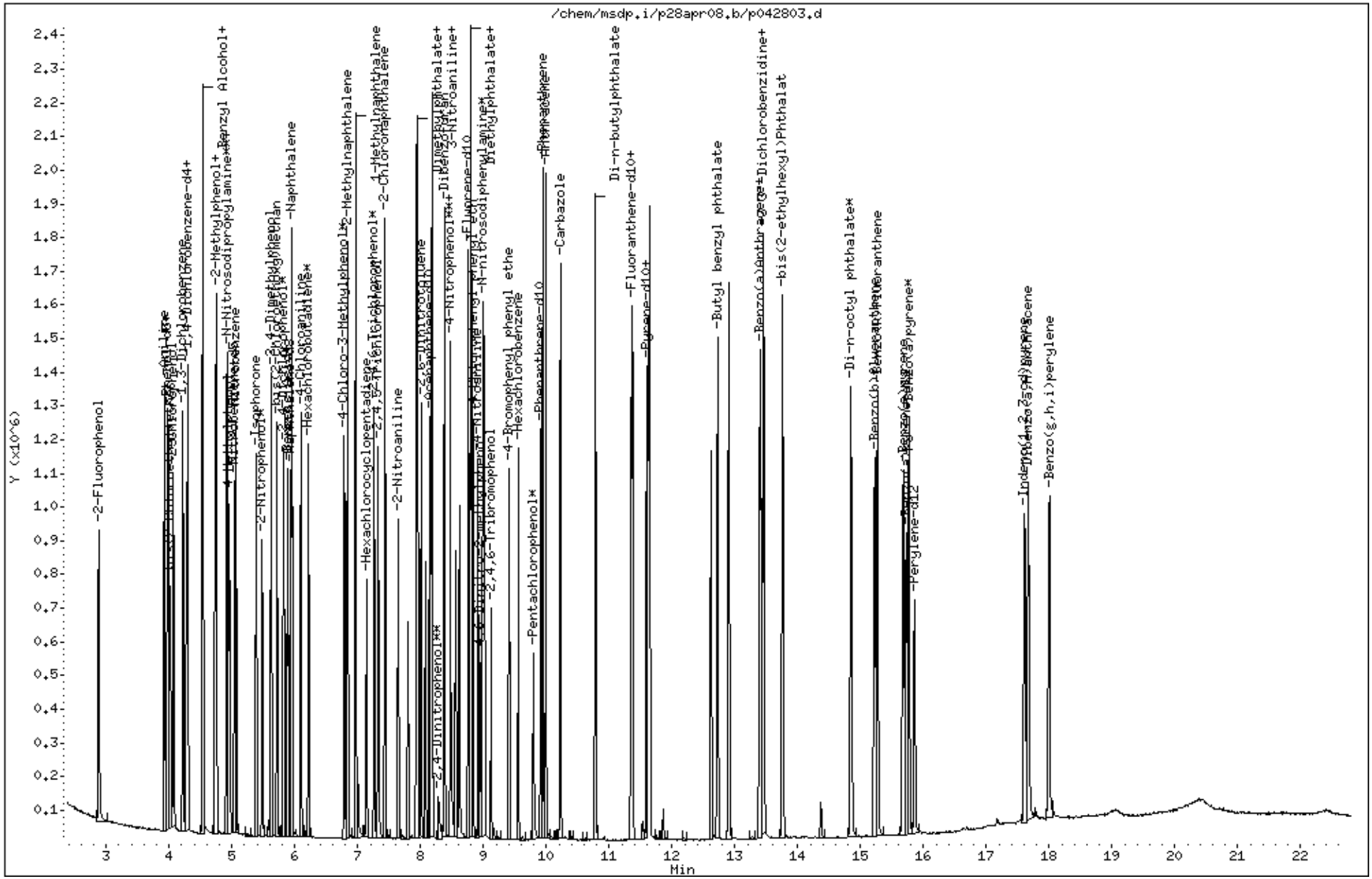
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.86	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0253

Data File: /chem/msdp.i/p28apr08.b/p042803.d
Date : 28-APR-2008 10:57
Client ID: CCV
Sample Info: ;1500-139-50;CCV
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804495BR1-15A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p042807**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/08 01:06 PM**
		Date of Extraction: 4/25/08

Compound	%Recovery
Naphthalene	66
2-Methylnaphthalene	Not Spiked
2-Chloronaphthalene	Not Spiked
Acenaphthylene	79
Acenaphthene	76
Fluorene	82
Phenanthrene	79
Anthracene	83
Fluoranthene	87
Pyrene	76
Chrysene	75
Benzo(a)anthracene	75
Benzo(b)fluoranthene	72
Benzo(k)fluoranthene	81
Benzo(a)pyrene	73
Indeno(1,2,3-c,d)pyrene	78
Dibenz(a,h)anthracene	75
Benzo(g,h,i)perylene	75

Air Sample Volume(L): 20.5
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	75	60-120
Pyrene-d10	74	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: p28apr08
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0804495B-LCS Client Smp ID: LCS
Level: LOW Operator: LP
Data Type: MS DATA SampleType: LCS
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: PAH.sub
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
28 Naphthalene	50.00	32.79	65.59	60-120
45 Acenaphthylene	50.00	39.69	79.38	60-120
48 Acenaphthene*	50.00	37.84	75.68	60-120
57 Fluorene	50.00	40.75	81.50	60-120
72 Phenanthrene	50.00	39.71	79.42	60-120
73 Anthracene	50.00	41.48	82.96	60-120
80 Fluoranthene*	50.00	43.53	87.06	60-120
81 Pyrene	50.00	37.78	75.57	60-120
88 Benzo(a)Anthracene	50.00	37.74	75.47	60-120
91 Chrysene	50.00	37.62	75.25	60-120
95 Benzo(b)fluoranthe	50.00	36.00	72.01	60-120
96 Benzo(k)fluoranthe	50.00	40.59	81.17	60-120
98 Benzo(a)pyrene*	50.00	36.61	73.22	60-120
103 Indeno(1,2,3-cd)py	50.00	38.94	77.88	60-120
104 Dibenzo(a,h)anthra	50.00	37.30	74.61	60-120
105 Benzo(g,h,i)peryle	50.00	37.58	75.17	60-120

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 147 Fluorene-d10	50.00	37.59	75.19	60-120
$ 148 Pyrene-d10	50.00	37.06	74.11	60-120

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdp.i/p28apr08.b/p042807.d
Lab Smp Id: 0804495B-LCS Client Smp ID: LCS
Inj Date : 28-APR-2008 13:06
Operator : LP Inst ID: msdp.i
Smp Info : ;0804495B-LCS;LCS
Misc Info : ,NOTICS
Comment :
Method : /chem/msdp.i/p28apr08.b/bnap1221b.m
Meth Date : 28-Apr-2008 16:58 lpham Quant Type: ISTD
Cal Date : 16-APR-2008 17:45 Cal File: p041613.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
*	7 1,4-Dichlorobenzene-d4	150	4.269	4.269	(1.000)	259247	40.0000	
*	27 Naphthalene-d8	136	5.925	5.925	(1.000)	663974	40.0000	
*	47 Acenaphthene-d10	164	8.140	8.140	(1.000)	358233	40.0000	
*	71 Phenanthrene-d10	188	9.910	9.910	(1.000)	611178	40.0000	
*	90 Chrysene-d12	240	13.418	13.419	(1.000)	594441	40.0000	
*	99 Perylene-d12	264	15.861	15.861	(1.000)	464840	40.0000	
$	147 Fluorene-d10	176	8.761	8.761	(1.076)	369461	37.5939	37.59
$	148 Pyrene-d10	212	11.617	11.618	(0.866)	551166	37.0565	37.06
	28 Naphthalene	128	5.956	5.956	(1.005)	625424	32.7925	32.79
	33 2-Methylnaphthalene	142	Compound Not Detected.					
	39 2-Chloronaphthalene	162	Compound Not Detected.					
	45 Acenaphthylene	152	7.943	7.954	(0.976)	679118	39.6907	39.69
	48 Acenaphthene*	154	8.181	8.181	(1.005)	391315	37.8377	37.84

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug)
57 Fluorene	166	8.792	8.792	(1.080)	467852	40.7482	40.75
72 Phenanthrene	178	9.941	9.941	(1.003)	667268	39.7080	39.71
73 Anthracene	178	9.992	9.993	(1.008)	673321	41.4802	41.48
80 Fluoranthene*	202	11.369	11.380	(1.147)	702245	43.5307	43.53
81 Pyrene	202	11.638	11.638	(0.867)	731731	37.7826	37.78
88 Benzo(a)Anthracene	228	13.398	13.398	(0.998)	688467	37.7354	37.74
91 Chrysene	228	13.460	13.460	(1.003)	699182	37.6250	37.62
95 Benzo(b)fluoranthene	252	15.230	15.230	(0.960)	659069	36.0033	36.00
96 Benzo(k)fluoranthene	252	15.271	15.271	(0.963)	798928	40.5868	40.59
98 Benzo(a)pyrene*	252	15.757	15.768	(0.993)	636403	36.6093	36.61
103 Indeno(1,2,3-cd)pyrene	276	17.610	17.610	(1.110)	693888	38.9417	38.94(MH)
104 Dibenzo(a,h)anthracene	278	17.672	17.672	(1.114)	551805	37.3040	37.30
105 Benzo(g,h,i)perylene	276	17.993	18.004	(1.134)	617585	37.5842	37.58

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p042807.d
Lab Smp Id: 0804495B-LCS
Analysis Type: SV
Quant Type: ISTD
Operator: LP
Method File: /chem/msdp.i/p28apr08.b/bnap1221b.m
Misc Info: ,NOTICS

Calibration Date: 28-APR-2008
Calibration Time: 10:57
Client Smp ID: LCS
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	257636	128818	515272	259247	0.63
27 Naphthalene-d8	577911	288956	1155822	663974	14.89
47 Acenaphthene-d10	304018	152009	608036	358233	17.83
71 Phenanthrene-d10	495479	247740	990958	611178	23.35
90 Chrysene-d12	468156	234078	936312	594441	26.97
99 Perylene-d12	371605	185802	743210	464840	25.09

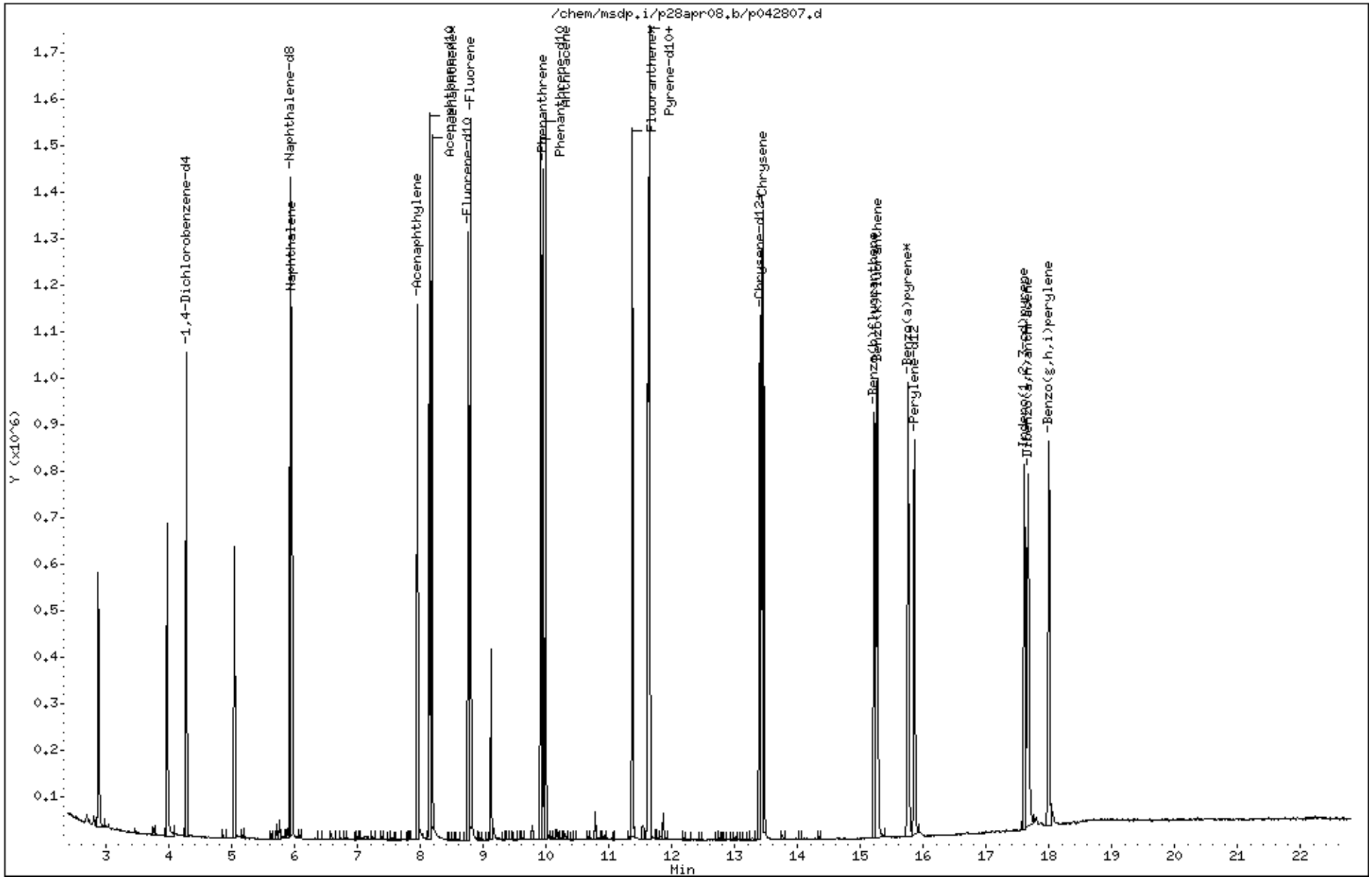
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.91	9.41	10.41	9.91	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.86	15.36	16.36	15.86	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0259

Data File: /chem/msdp.i/p28apr08.b/p042807.d
Date : 28-APR-2008 13:06
Client ID: LCS
Sample Info: ;0804495B-LCS;LCS
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdp.i
Operator: LP
Column diameter: 0.25



Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

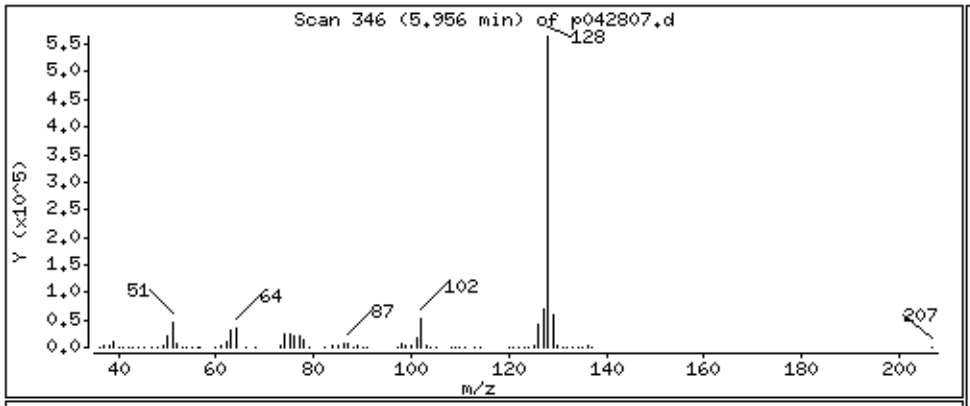
Operator: LP

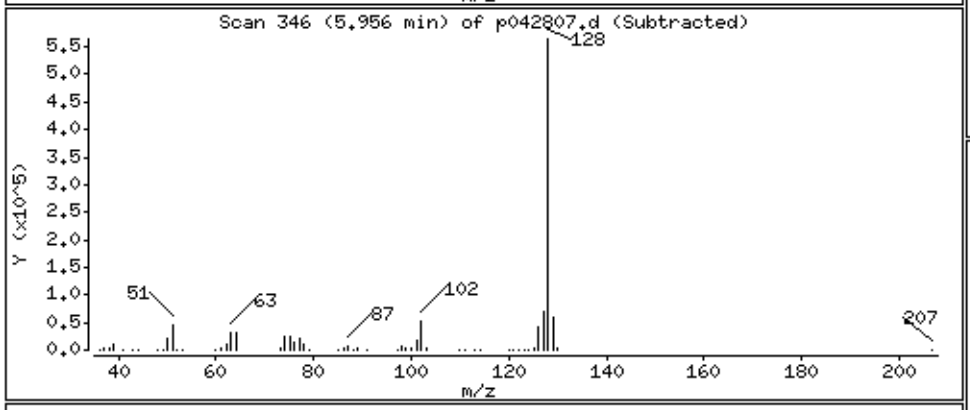
Column phase: DB-5.625

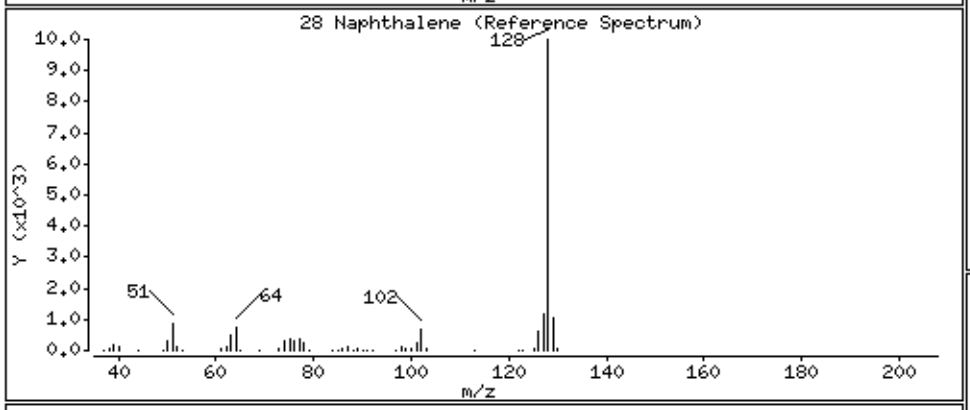
Column diameter: 0.25

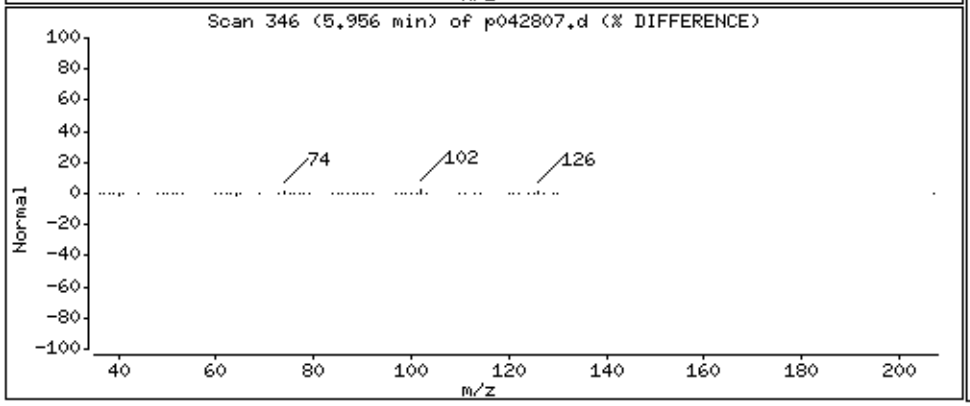
28 Naphthalene

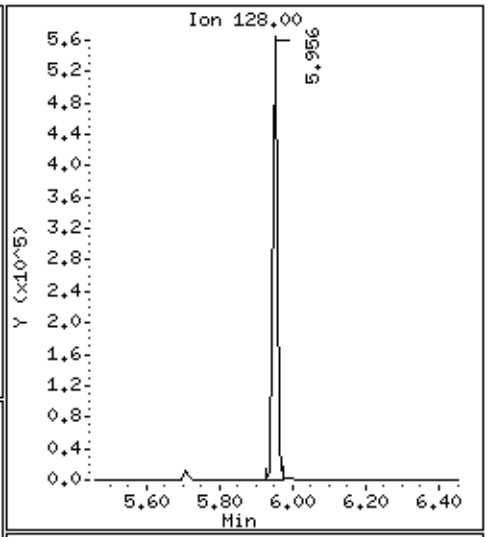
Concentration: 32.79 ug

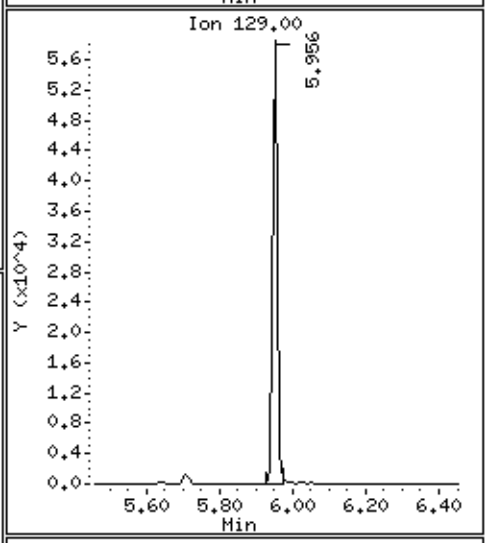


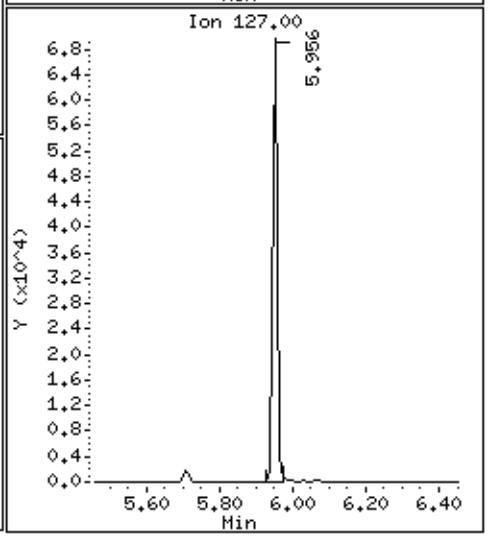












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

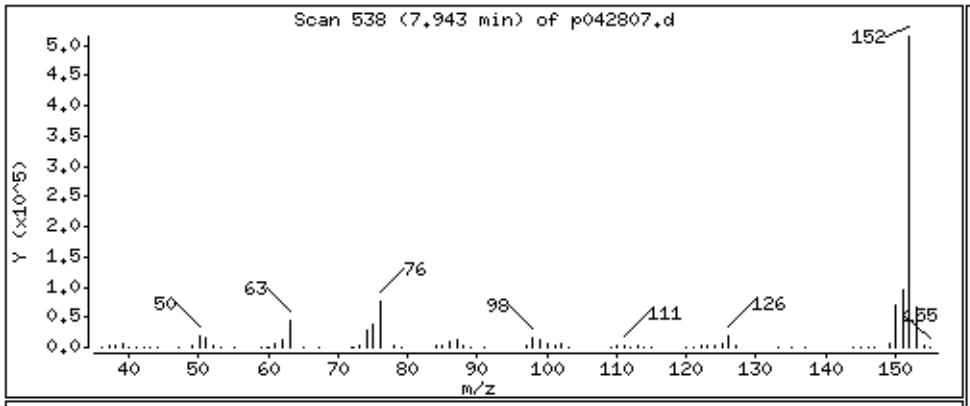
Operator: LP

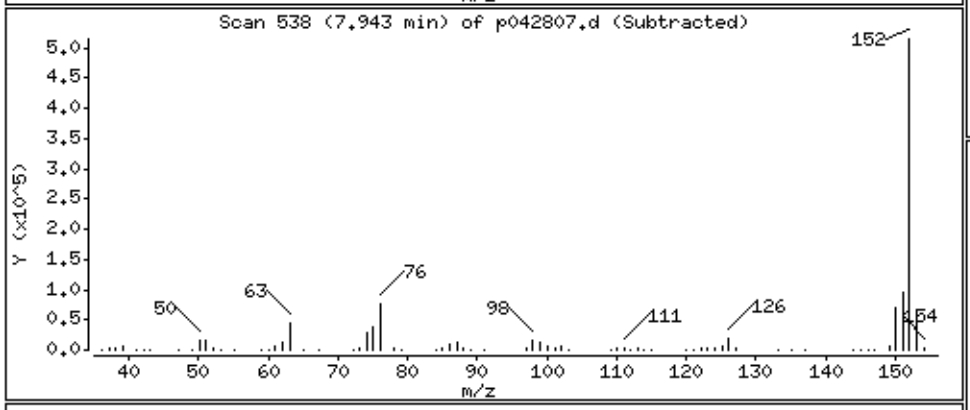
Column phase: DB-5.625

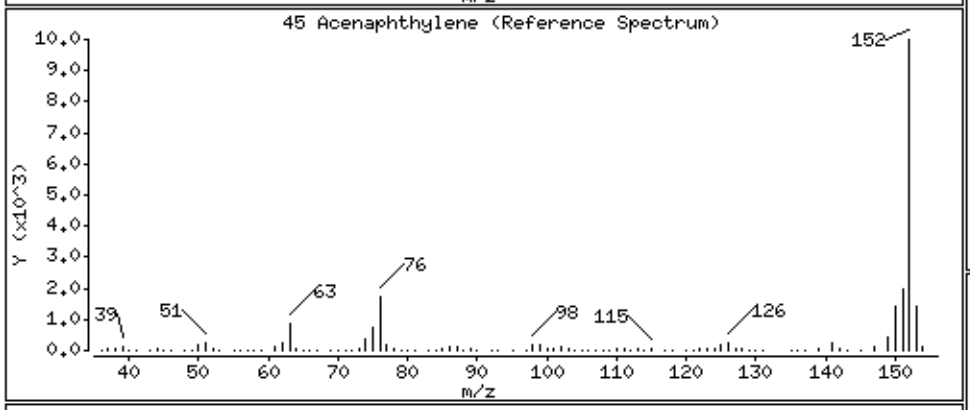
Column diameter: 0.25

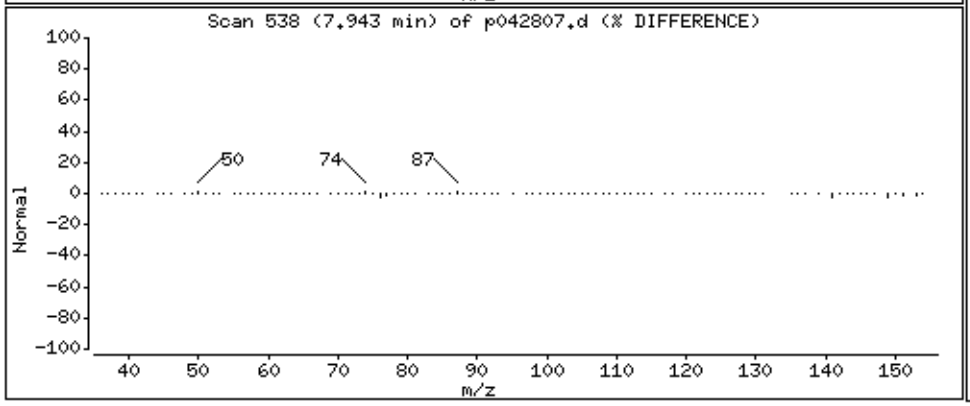
45 Acenaphthylene

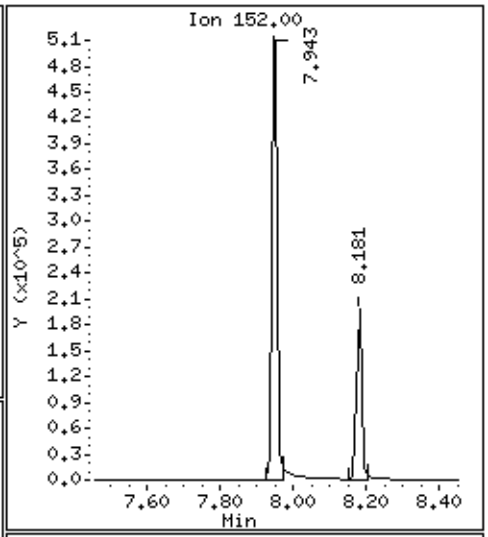
Concentration: 39.69 ug

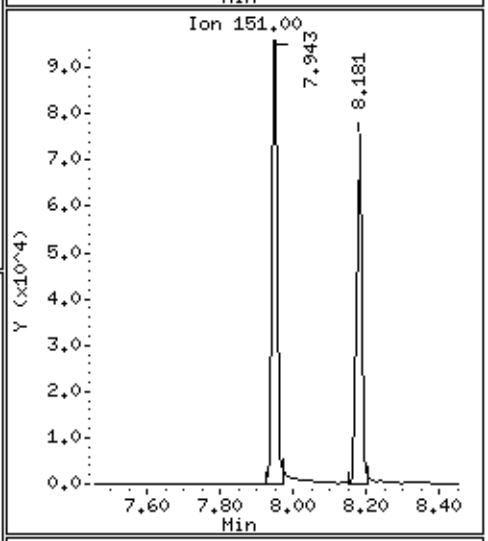


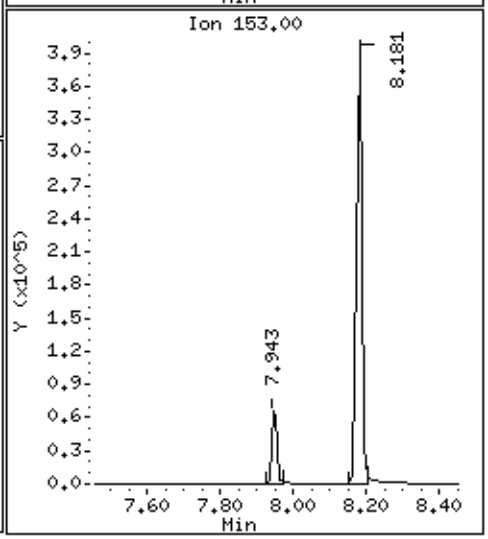












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

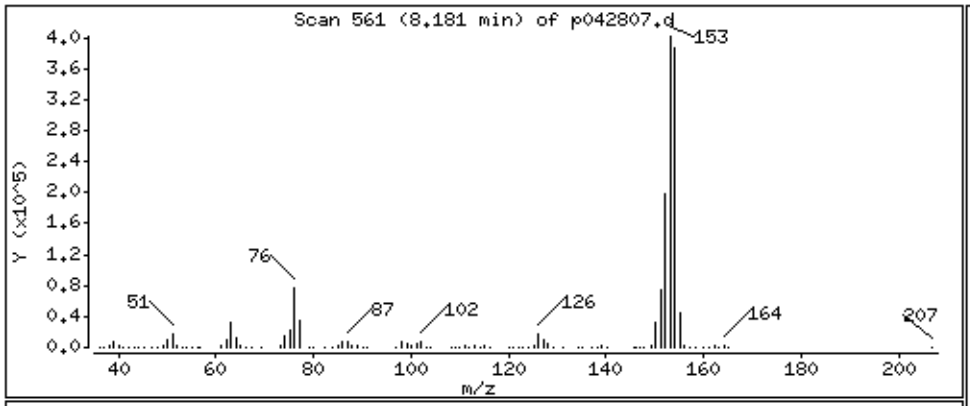
Operator: LP

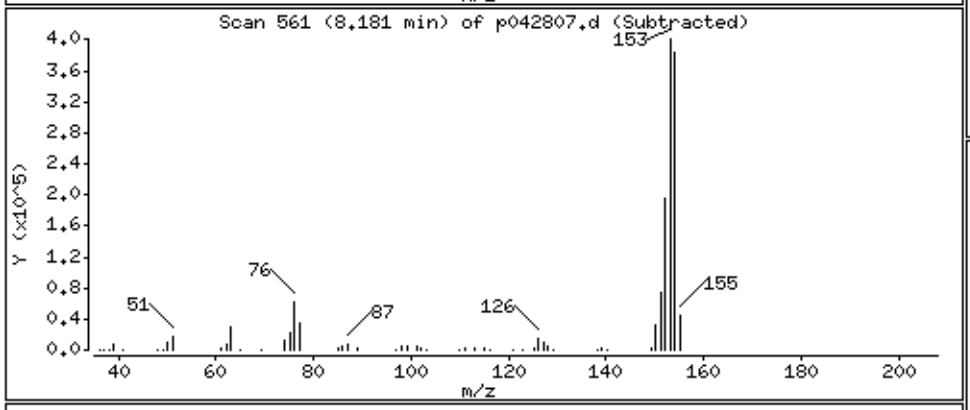
Column phase: DB-5.625

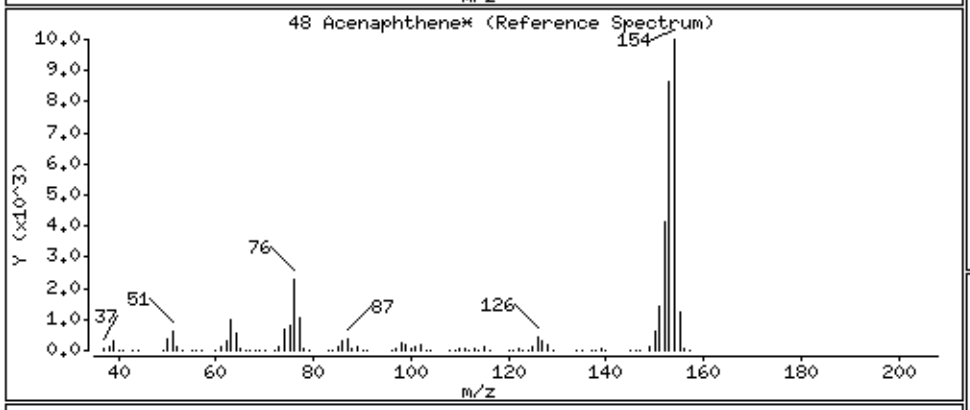
Column diameter: 0.25

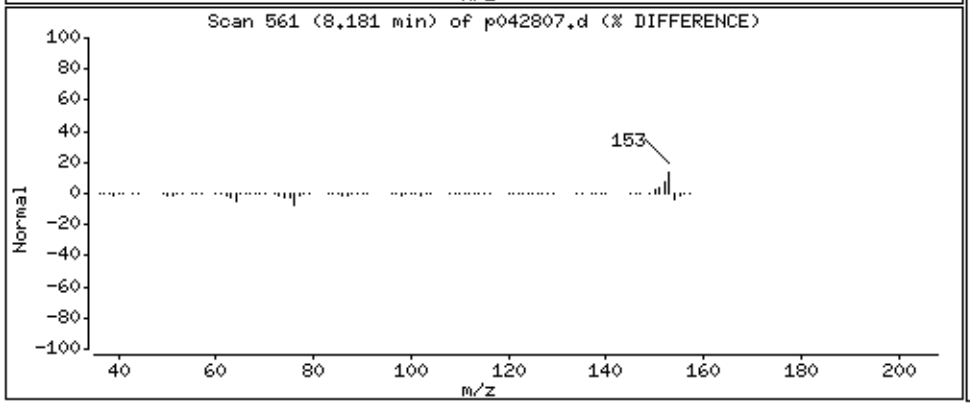
48 Acenaphthene*

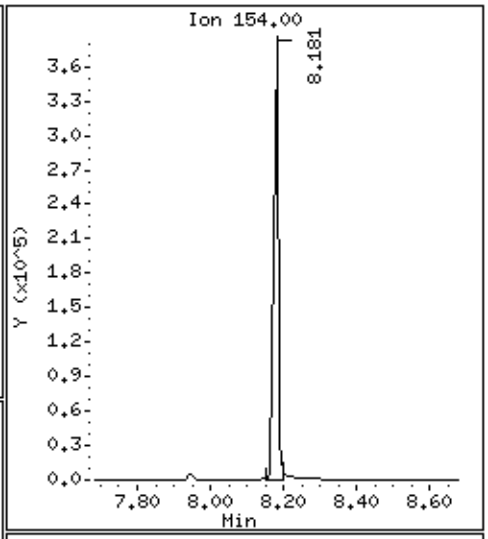
Concentration: 37.84 ug

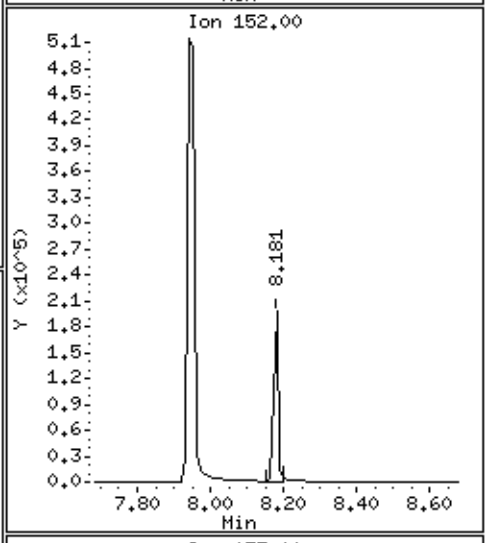


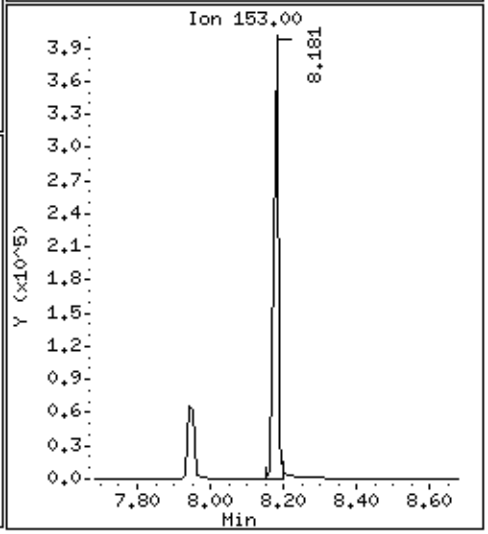












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

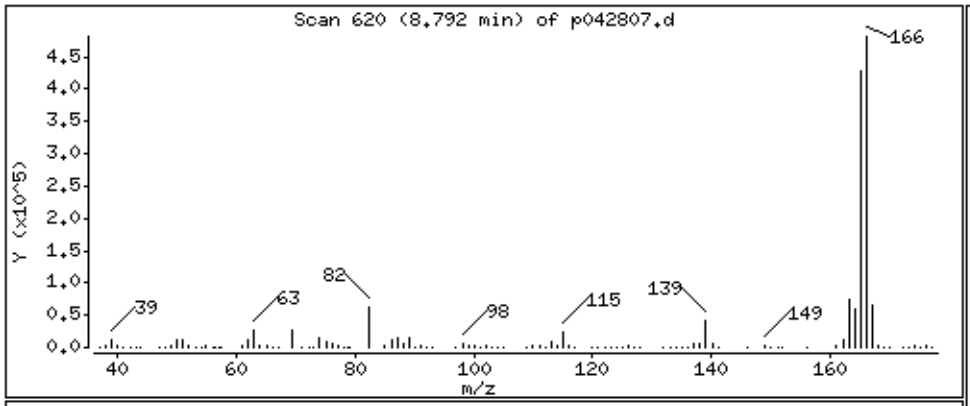
Operator: LP

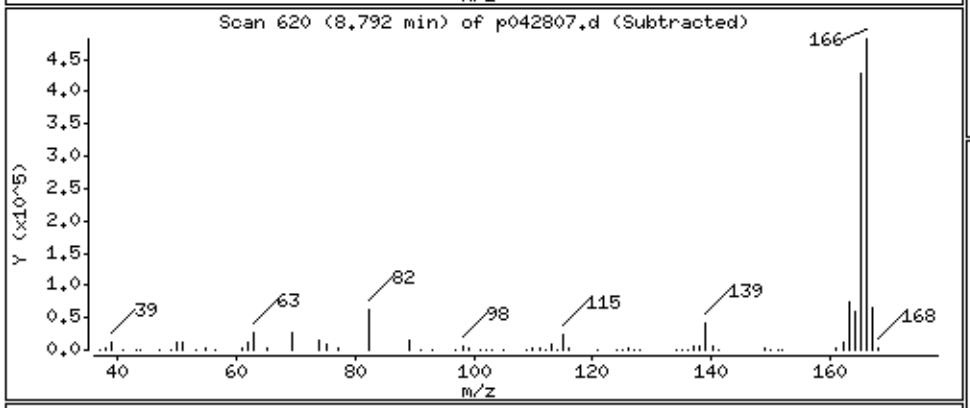
Column phase: DB-5.625

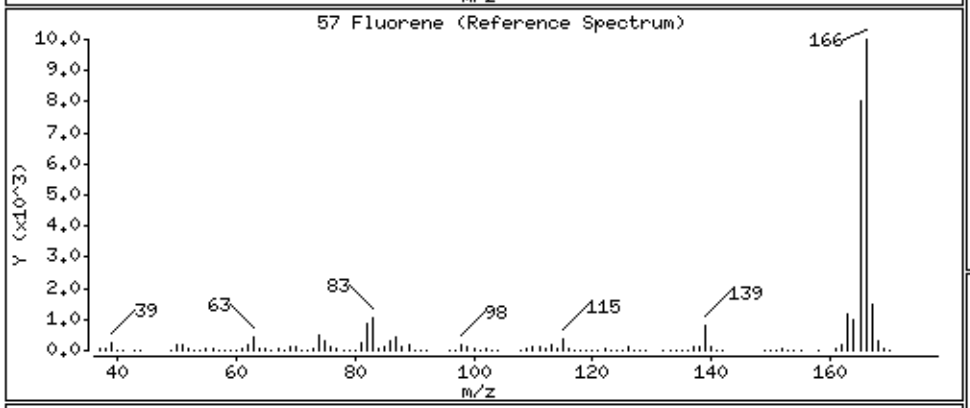
Column diameter: 0.25

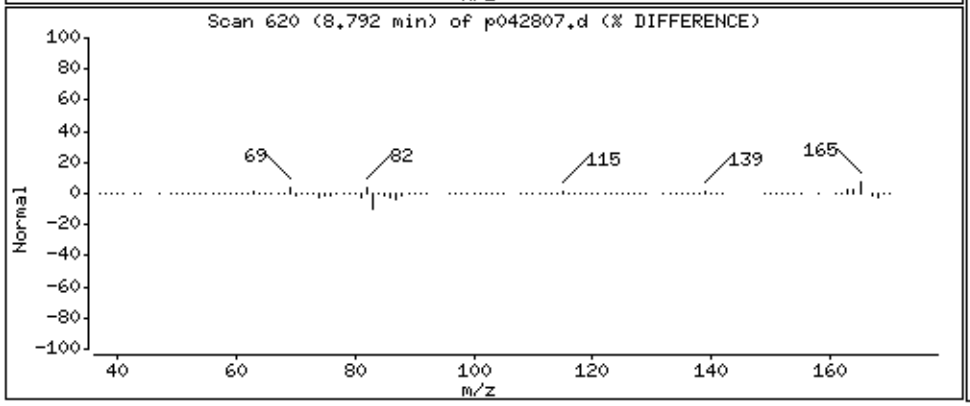
57 Fluorene

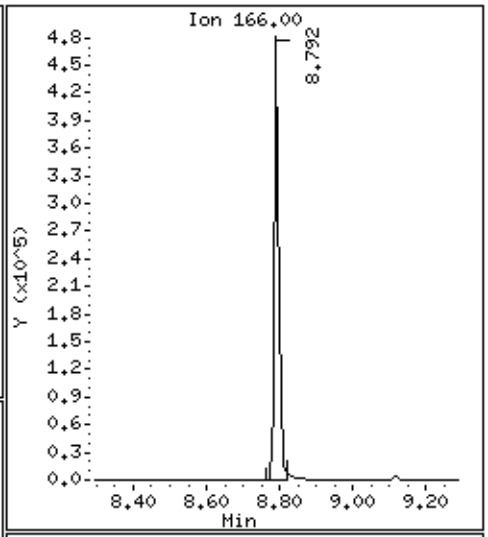
Concentration: 40.75 ug

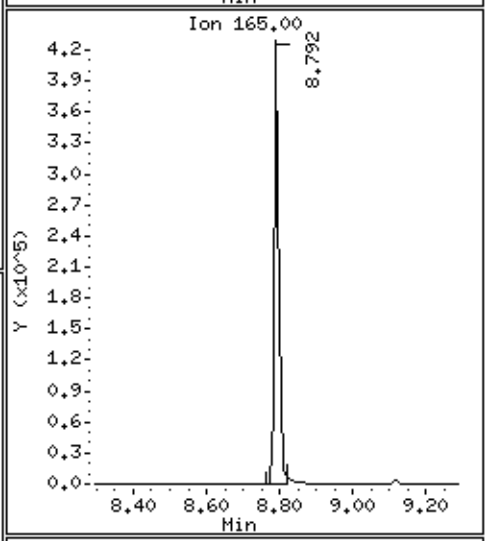


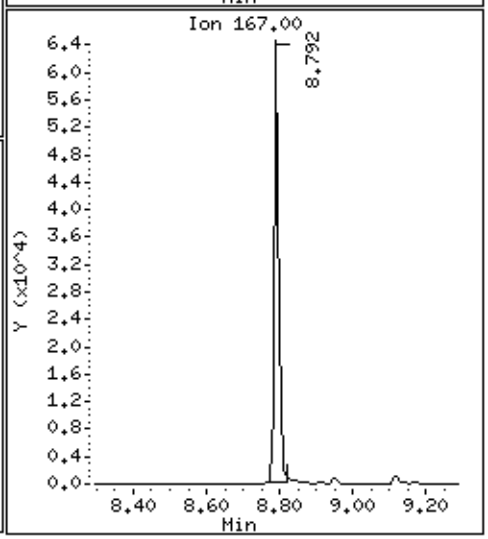












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

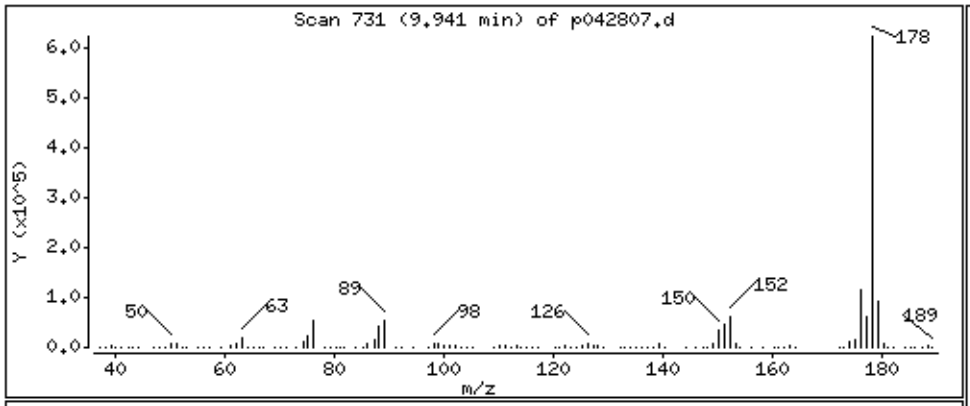
Operator: LP

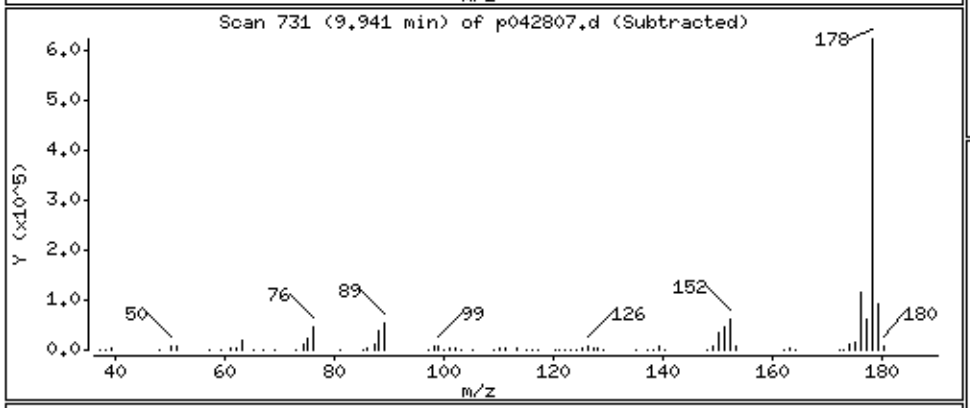
Column phase: DB-5.625

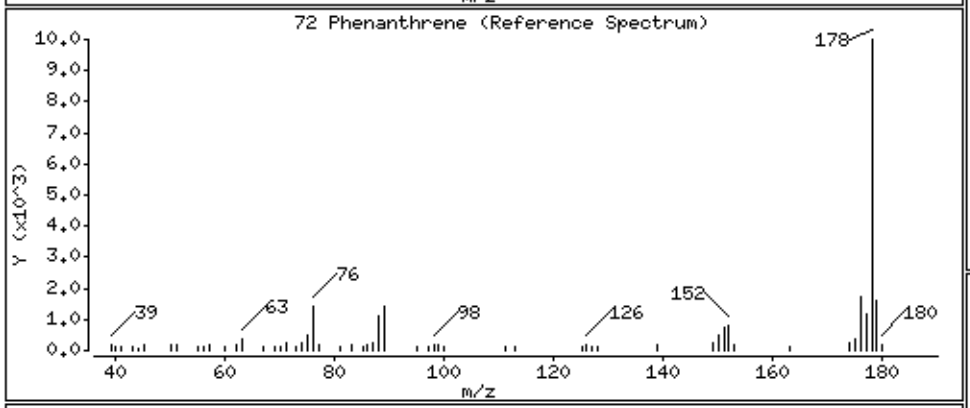
Column diameter: 0.25

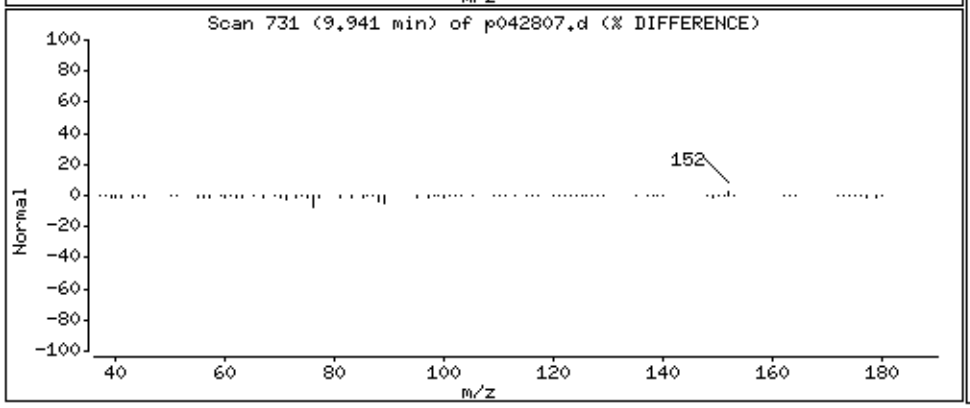
72 Phenanthrene

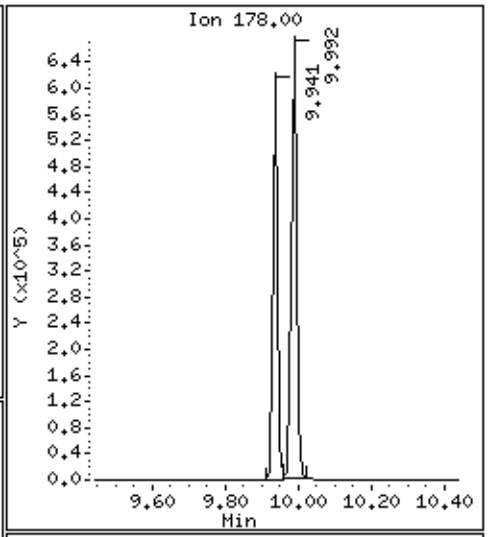
Concentration: 39.71 ug

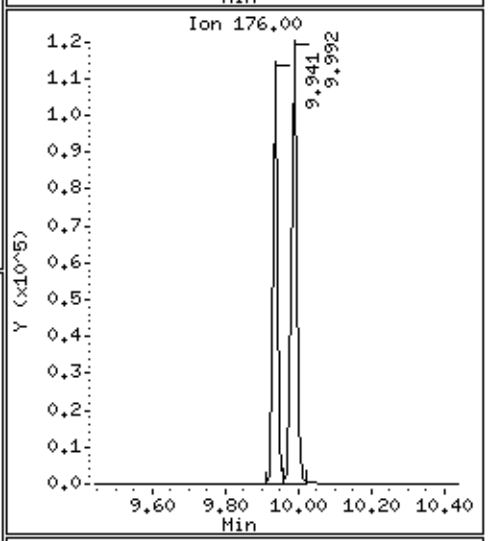


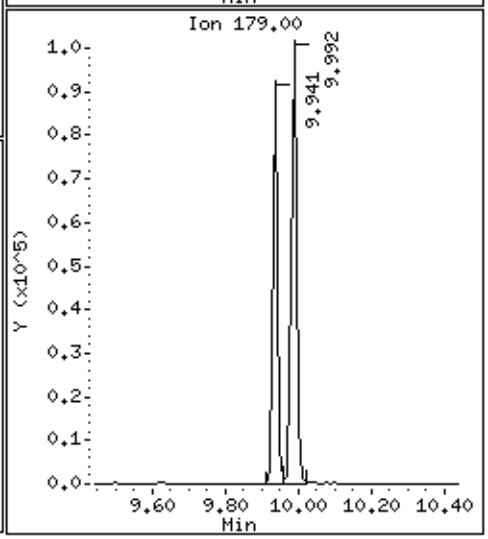












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

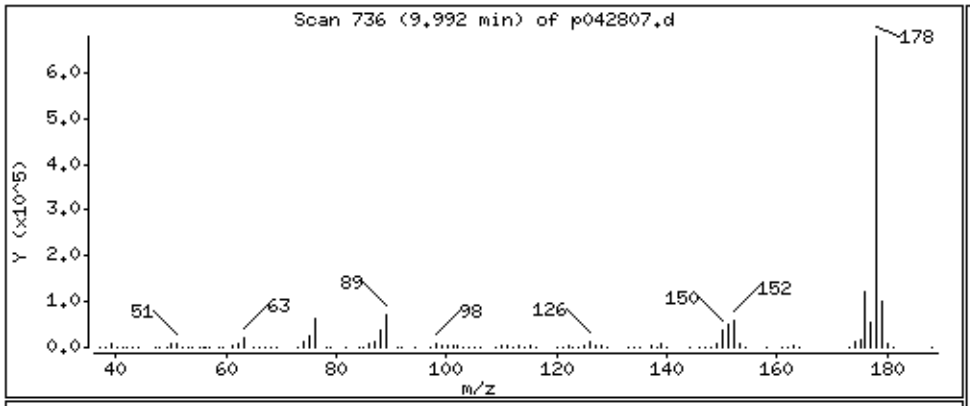
Operator: LP

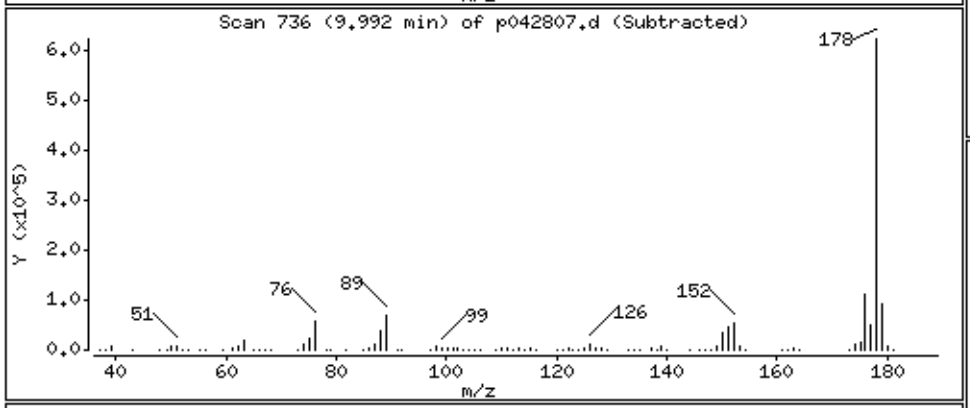
Column phase: DB-5.625

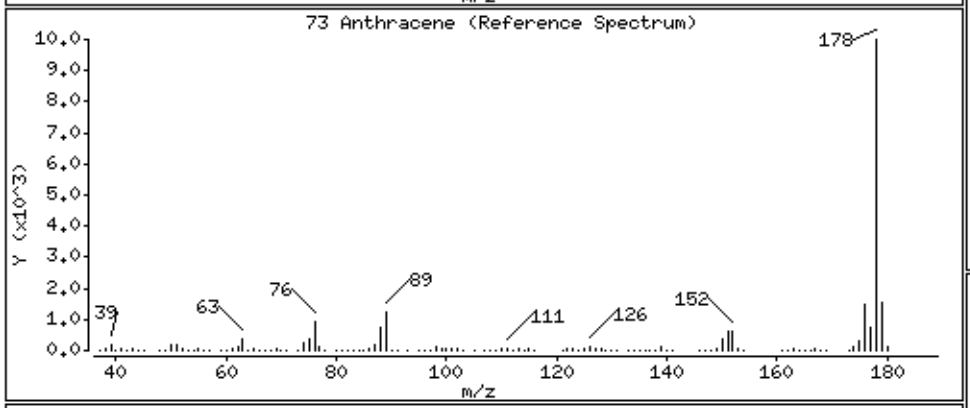
Column diameter: 0.25

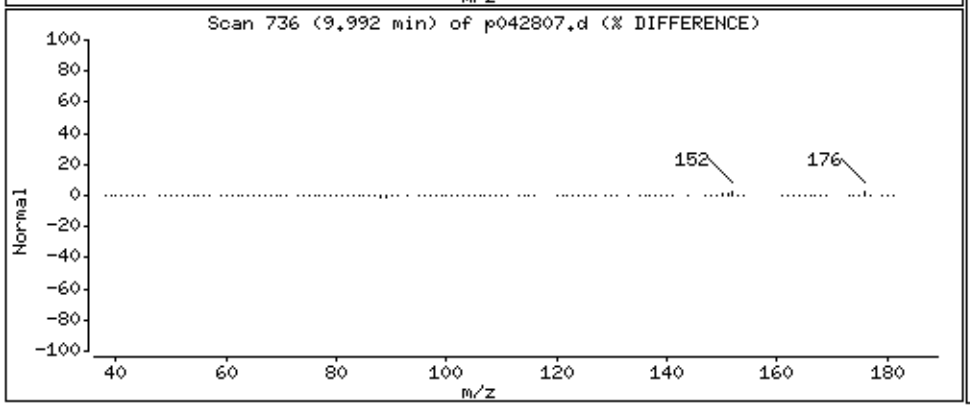
73 Anthracene

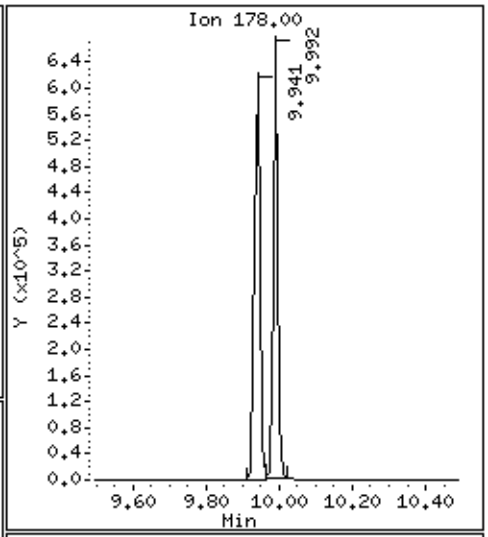
Concentration: 41.48 ug

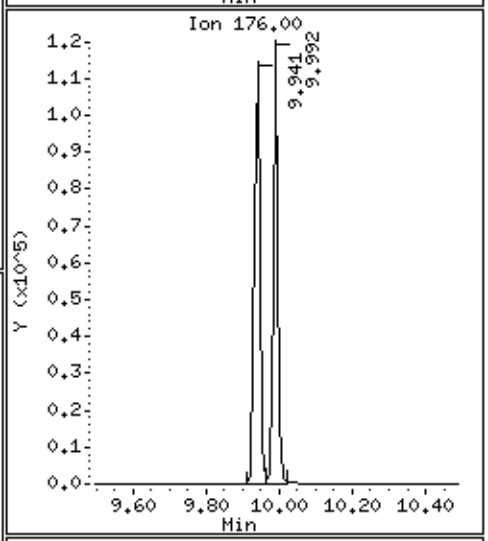


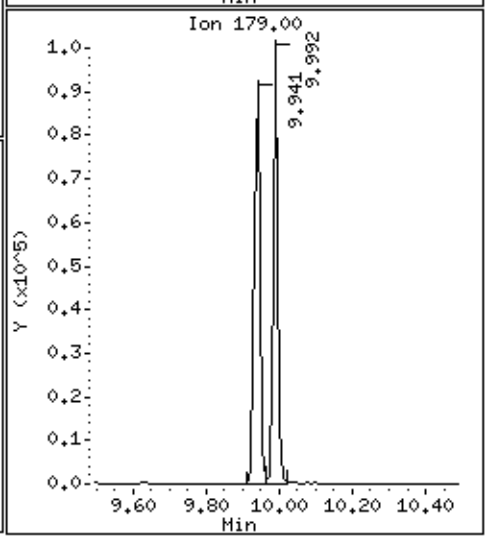












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

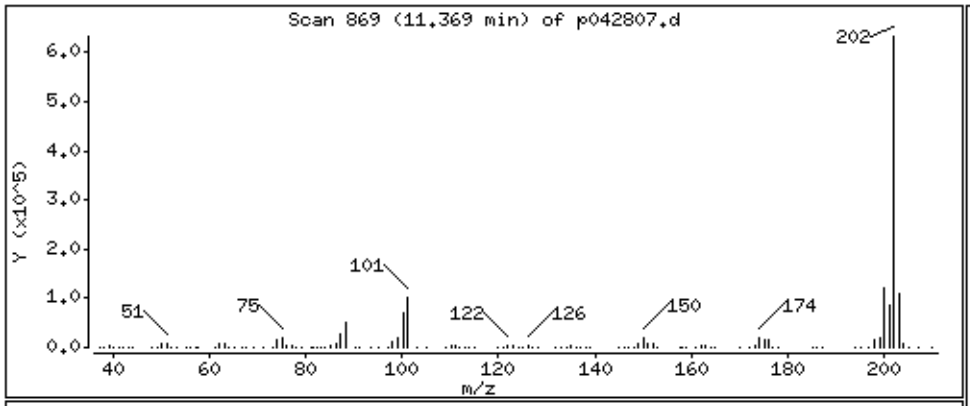
Operator: LP

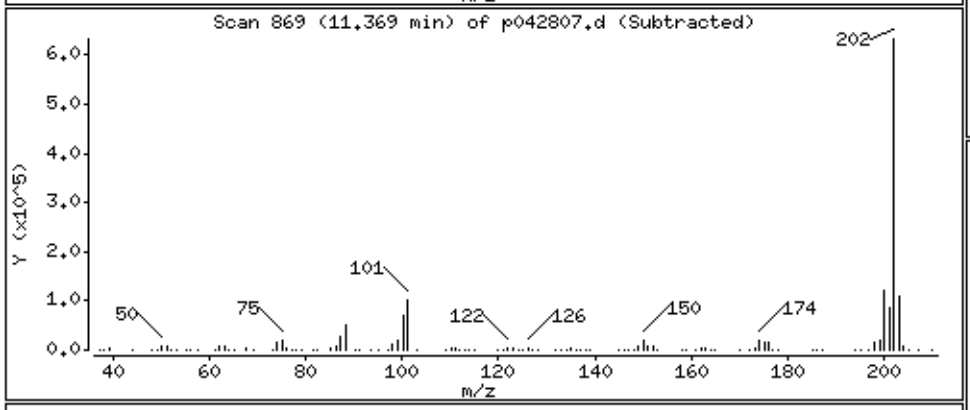
Column phase: DB-5.625

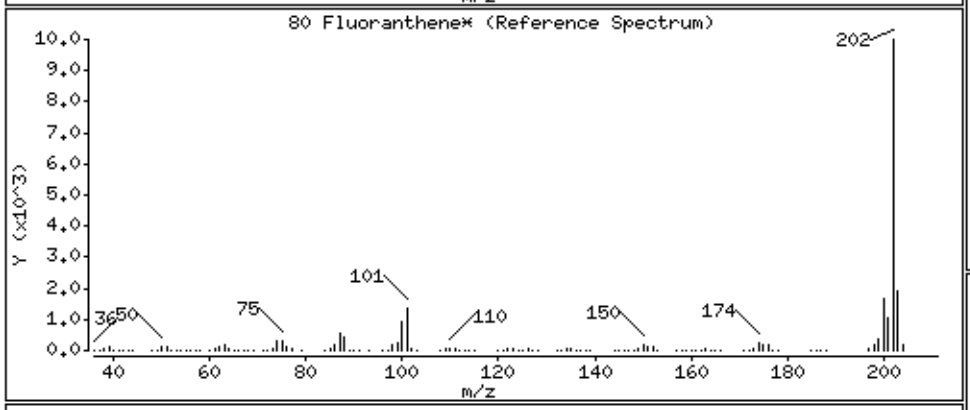
Column diameter: 0.25

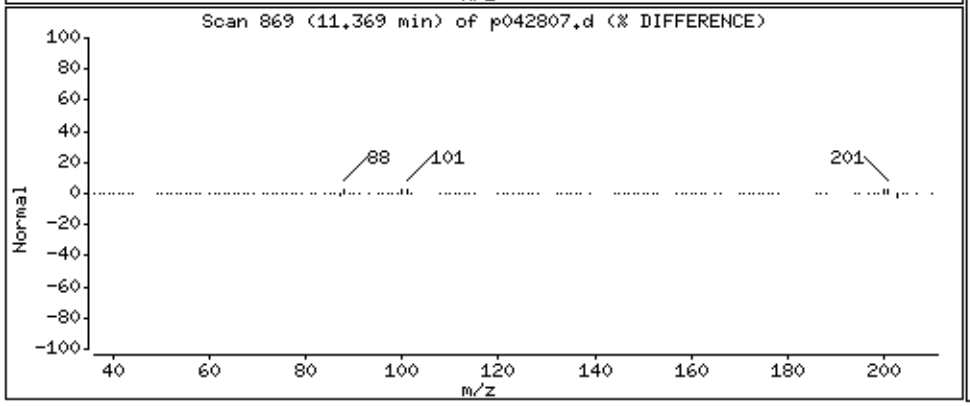
80 Fluoranthene*

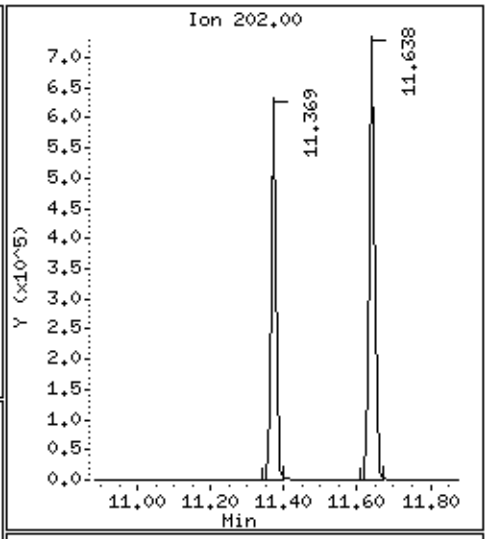
Concentration: 43.53 ug

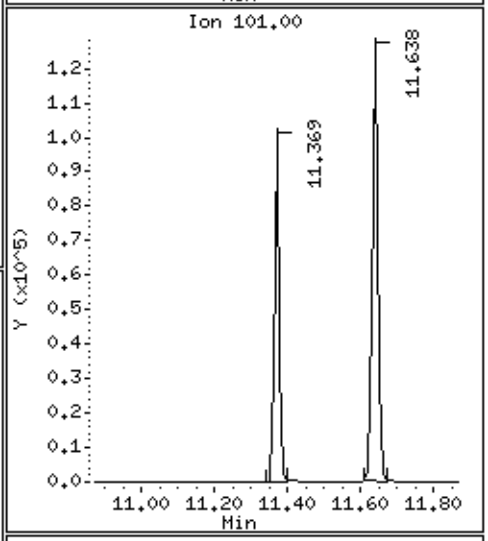


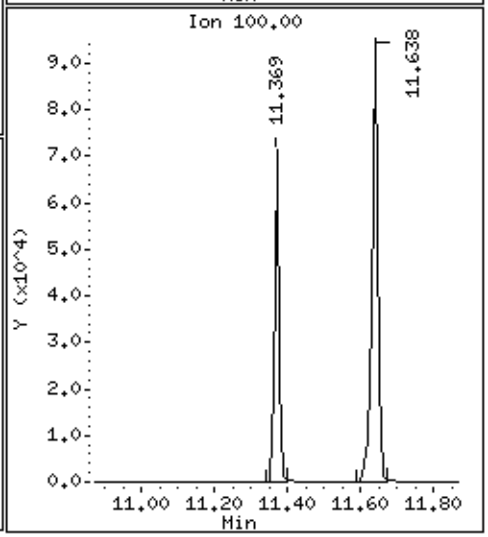












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

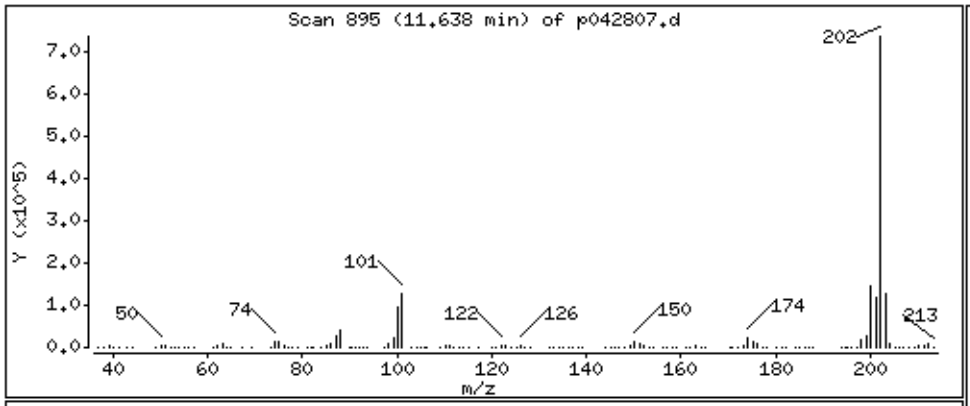
Operator: LP

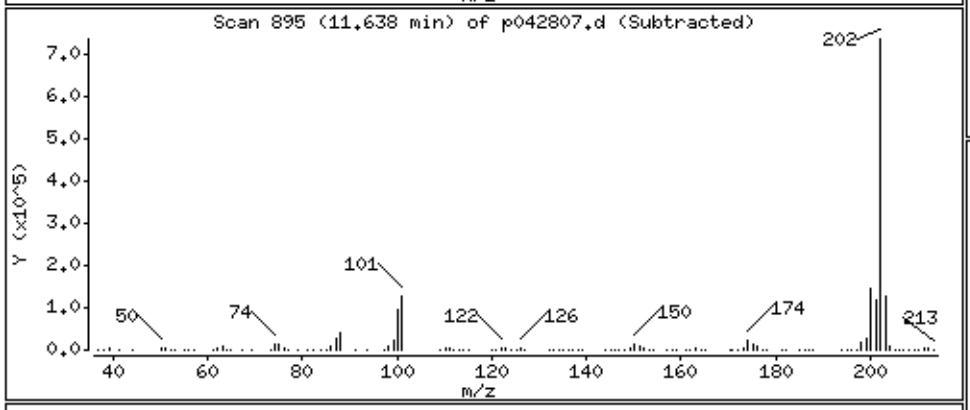
Column phase: DB-5.625

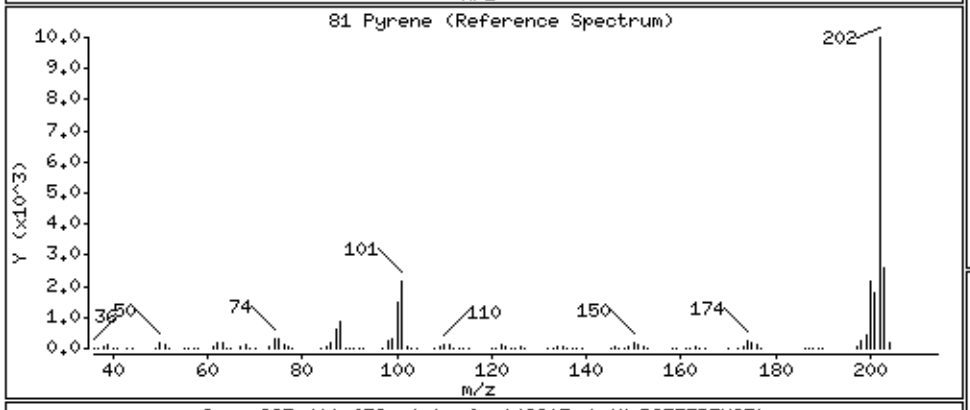
Column diameter: 0.25

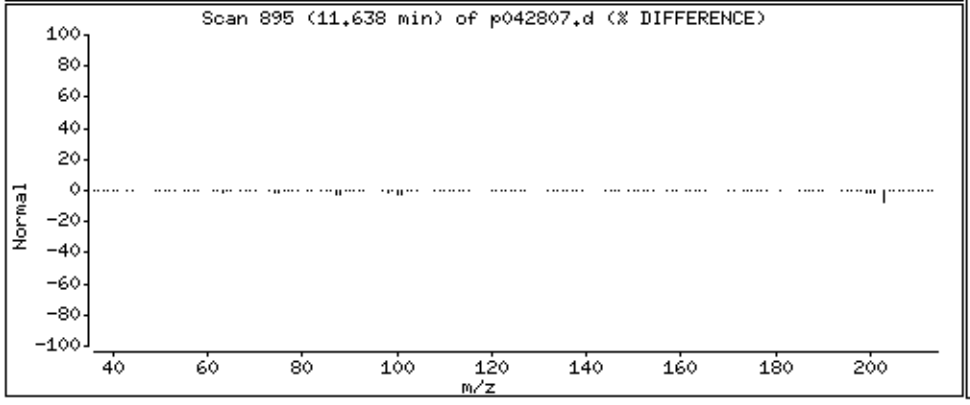
81 Pyrene

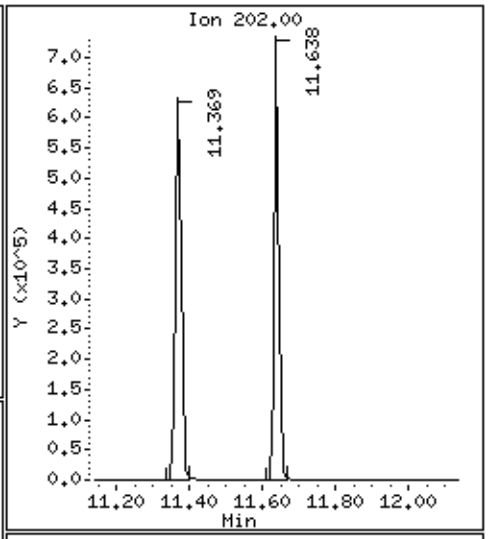
Concentration: 37.78 ug

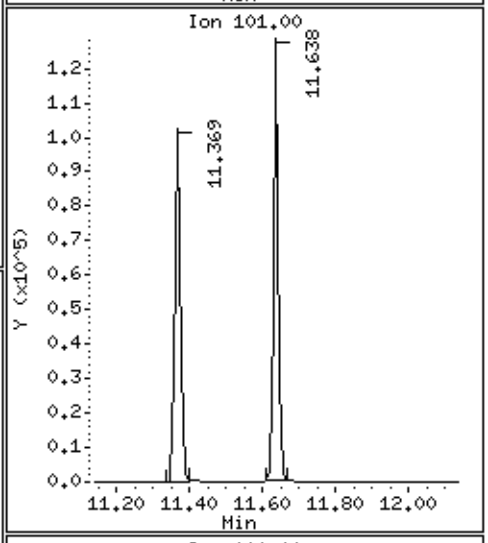


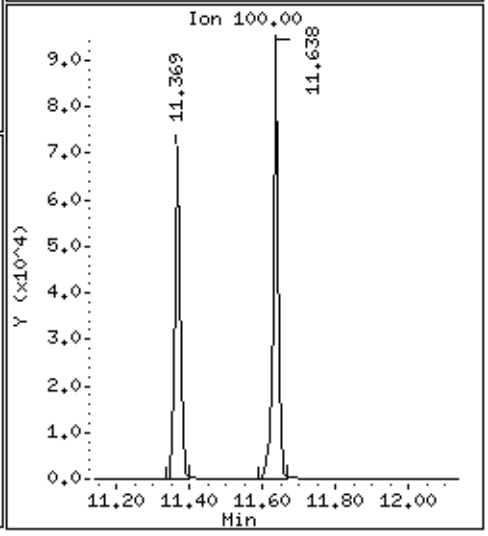












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

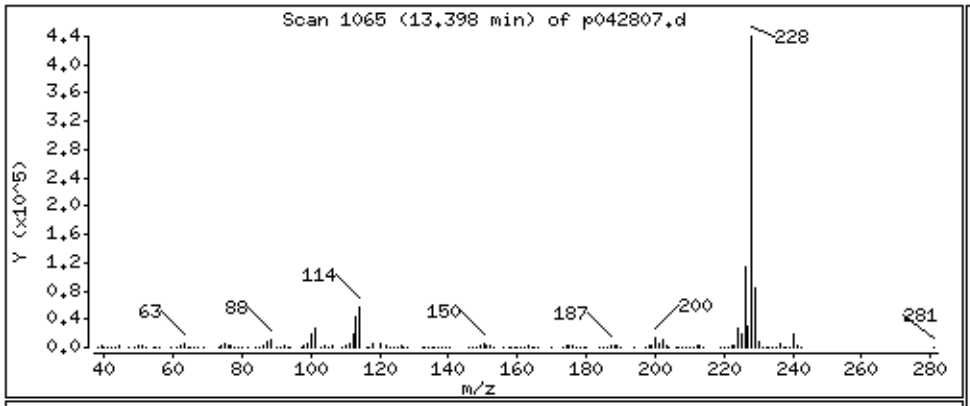
Operator: LP

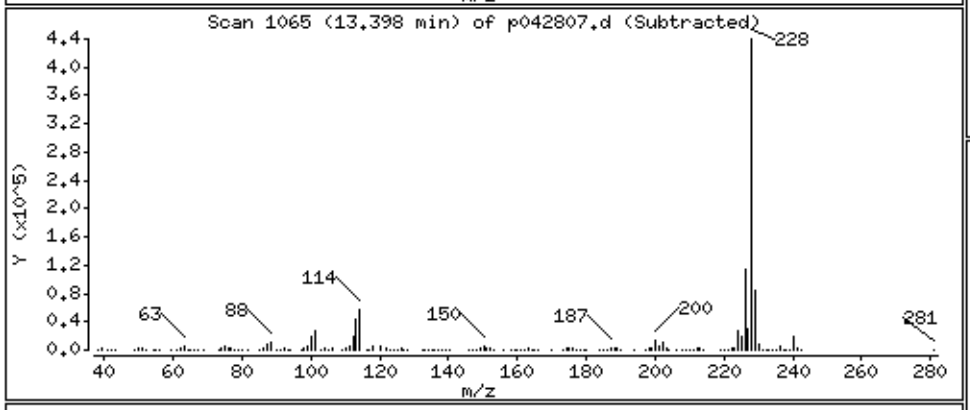
Column phase: DB-5.625

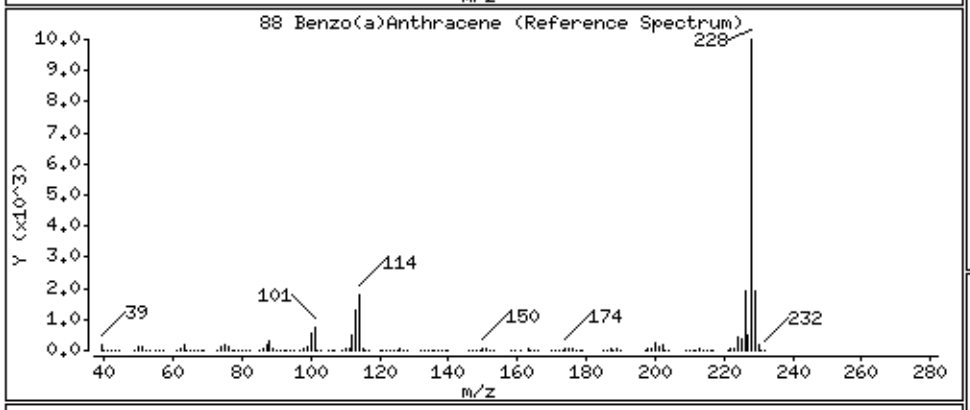
Column diameter: 0.25

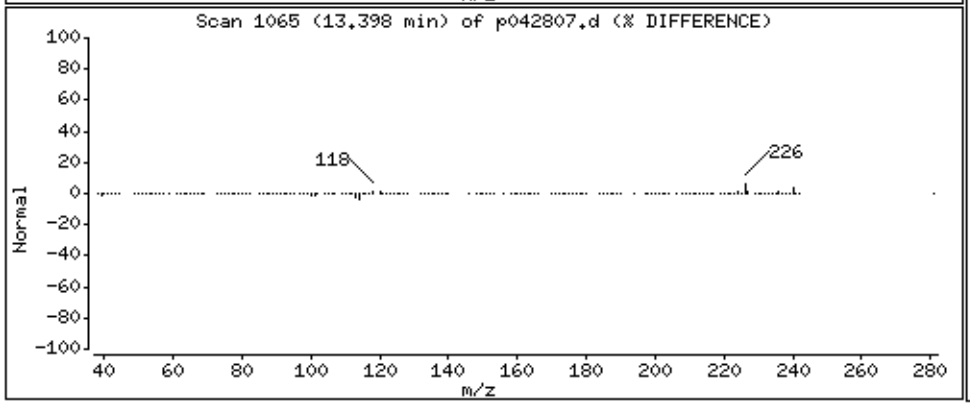
88 Benzo(a)Anthracene

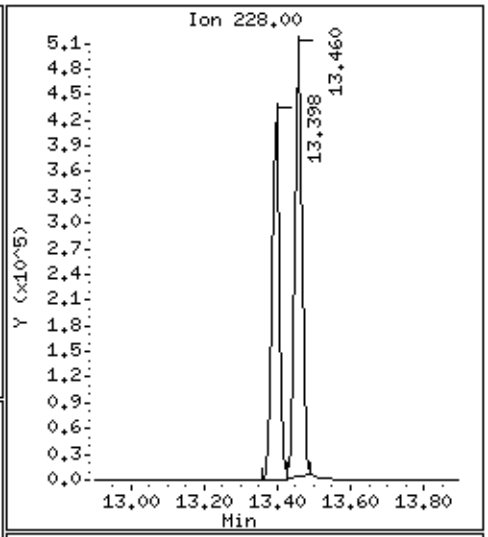
Concentration: 37.74 ug

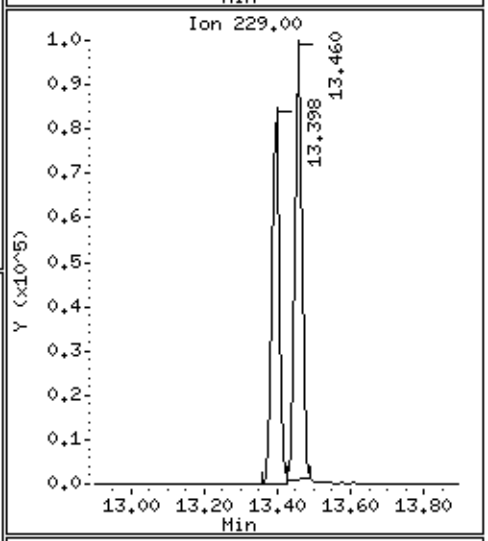


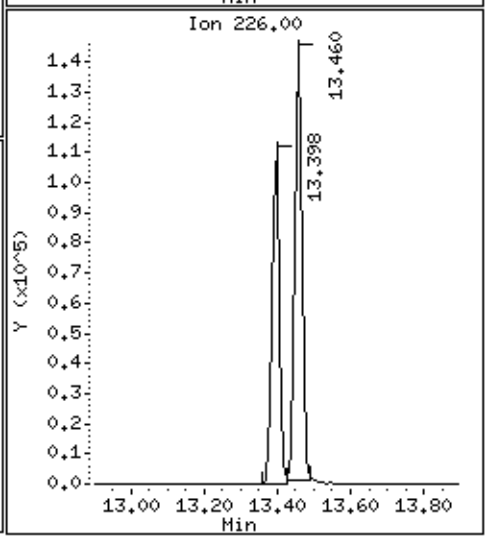












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

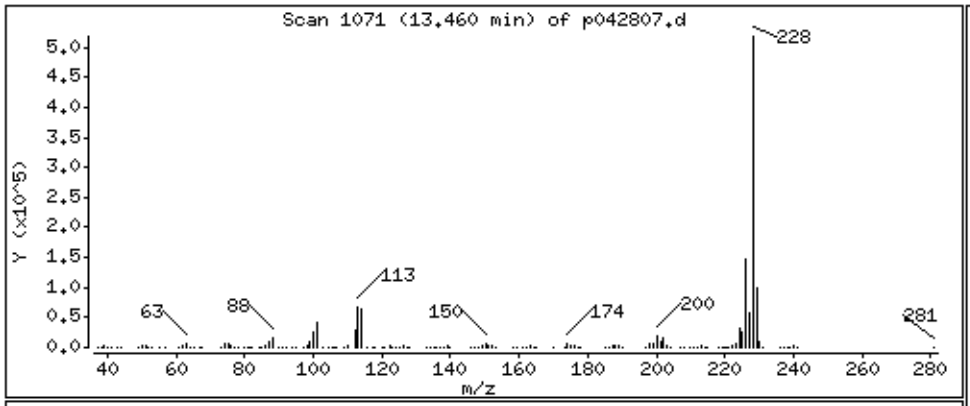
Operator: LP

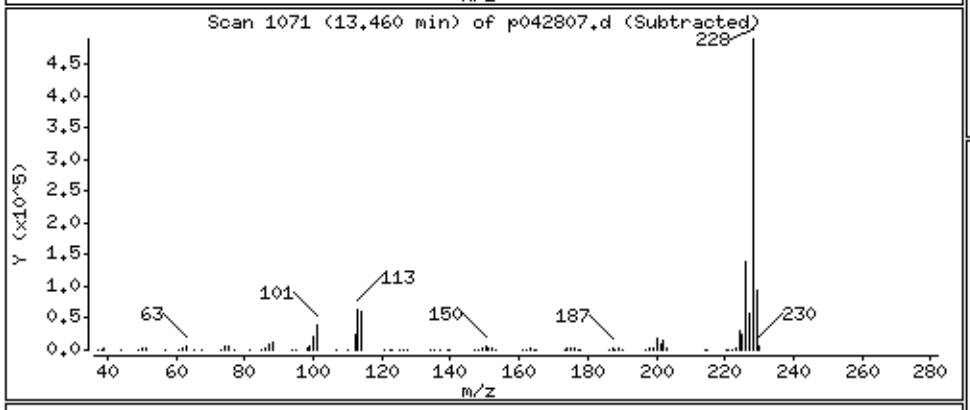
Column phase: DB-5.625

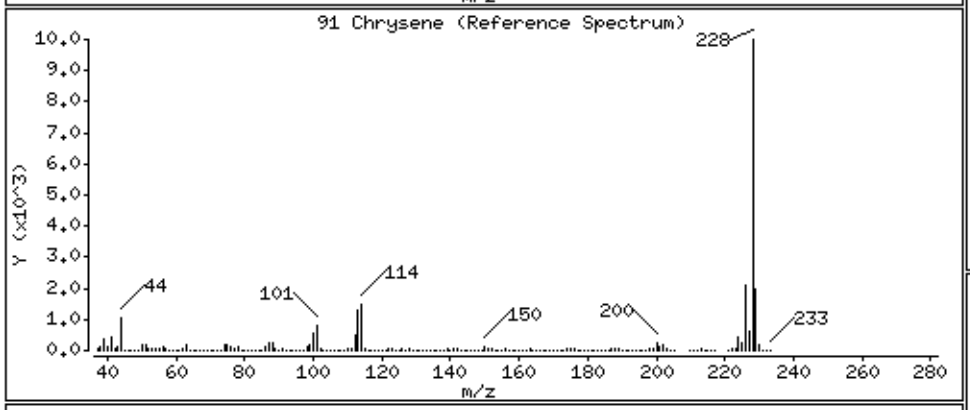
Column diameter: 0.25

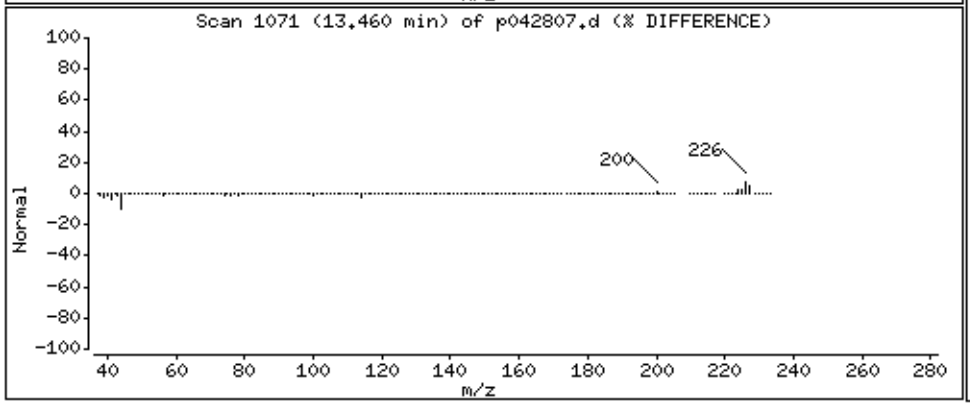
91 Chrysene

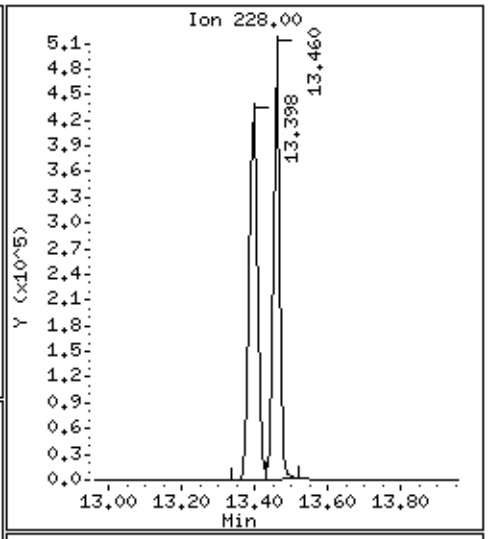
Concentration: 37.62 ug

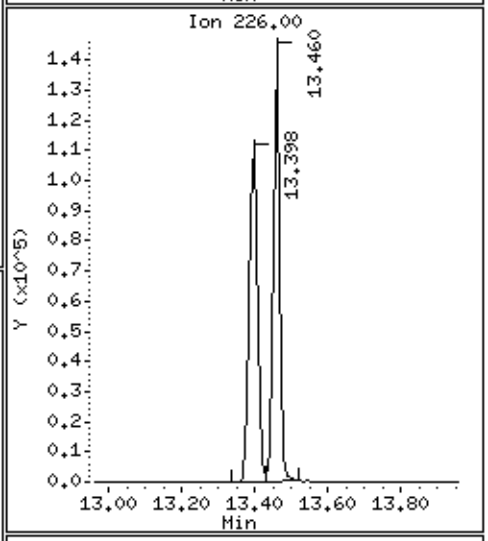


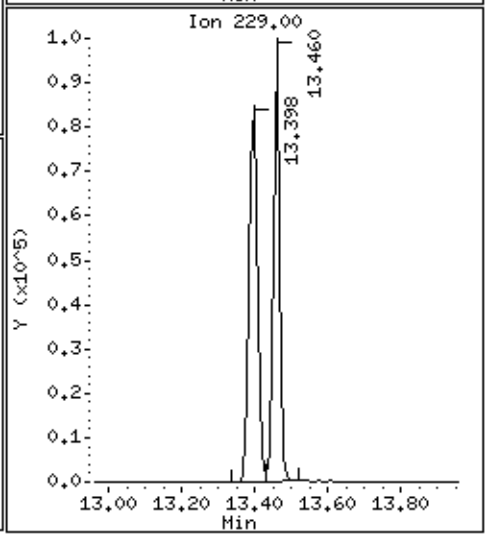












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

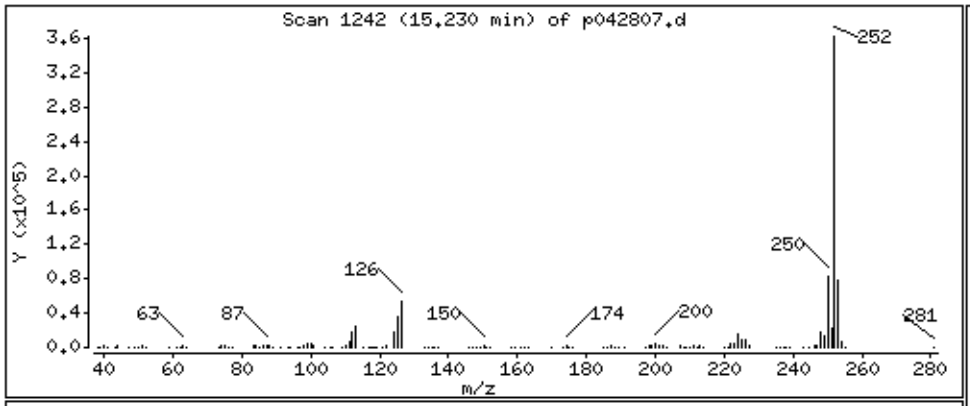
Operator: LP

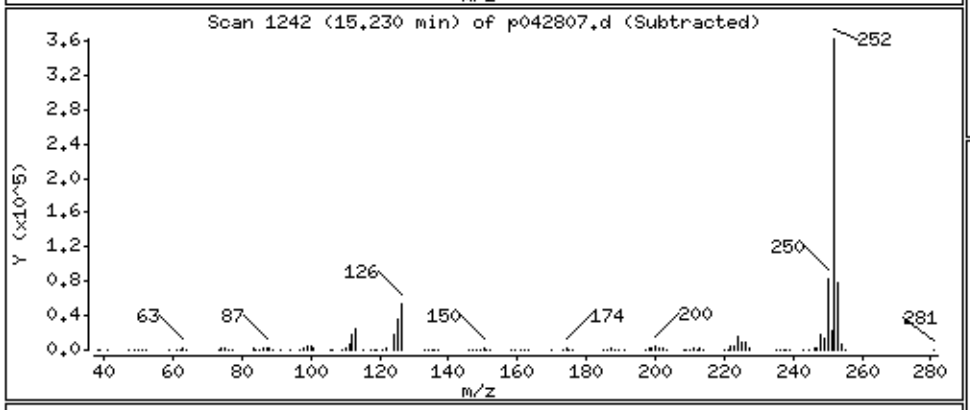
Column phase: DB-5.625

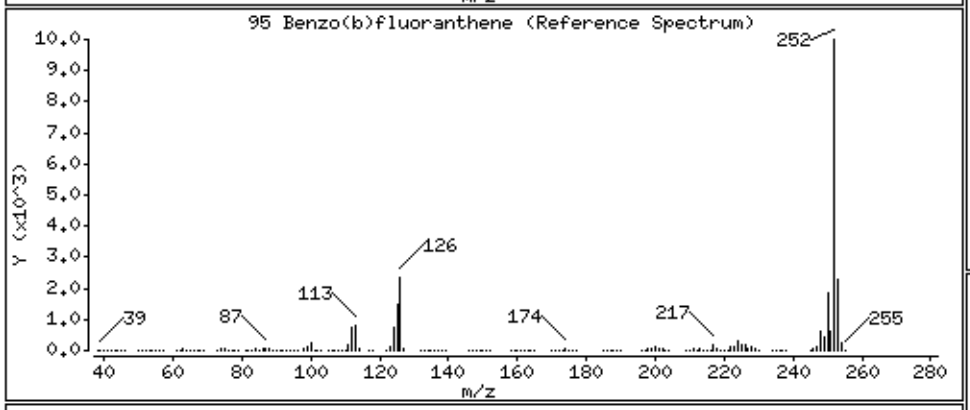
Column diameter: 0.25

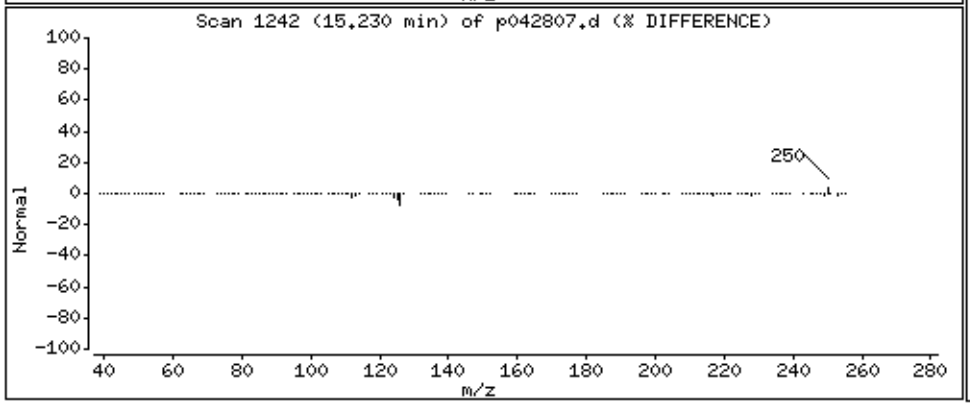
95 Benzo(b)fluoranthene

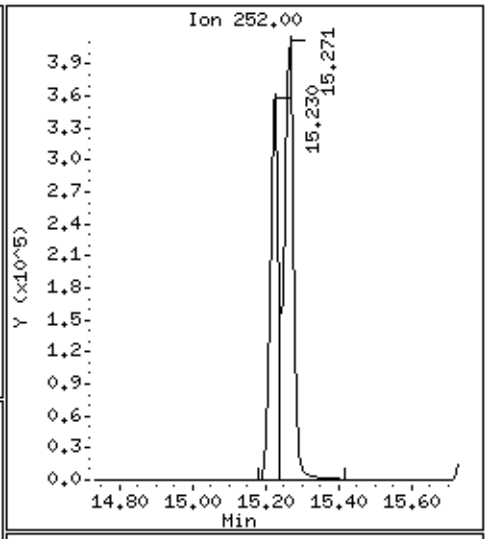
Concentration: 36.00 ug

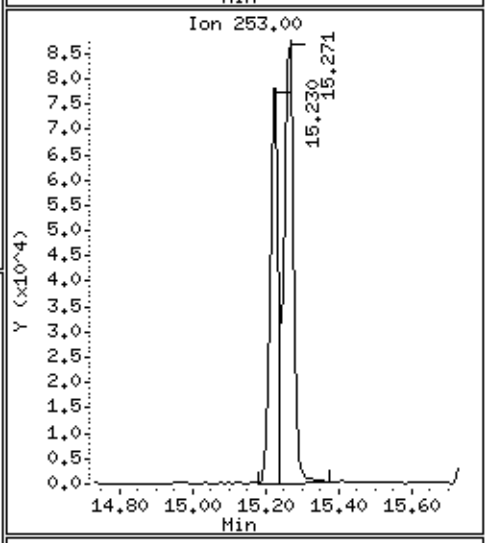


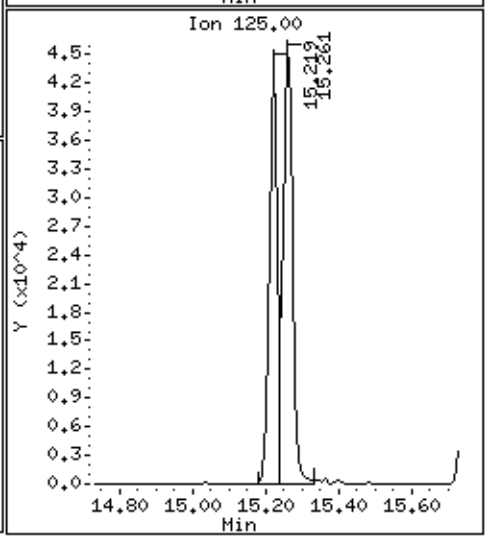












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

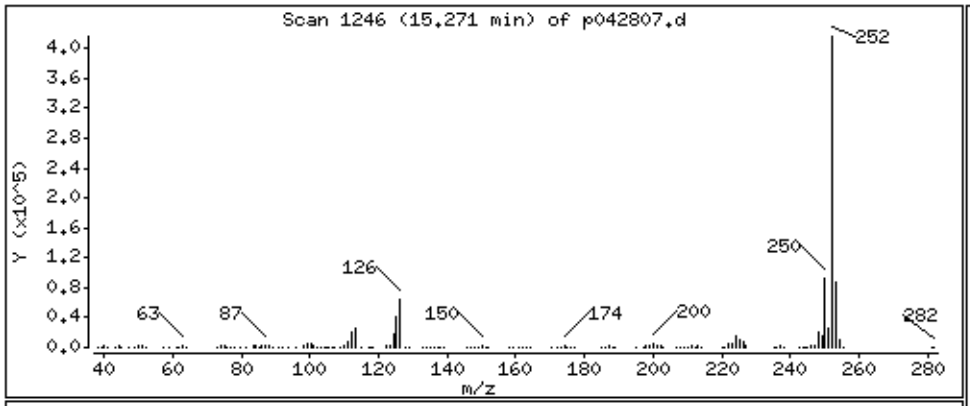
Operator: LP

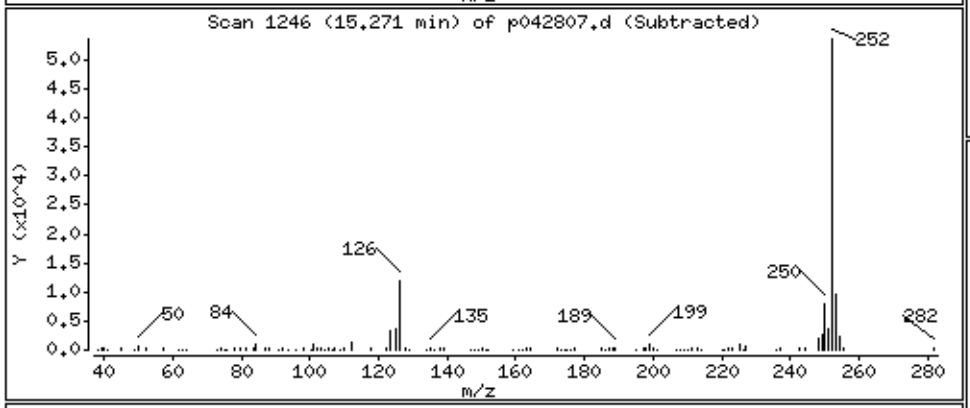
Column phase: DB-5.625

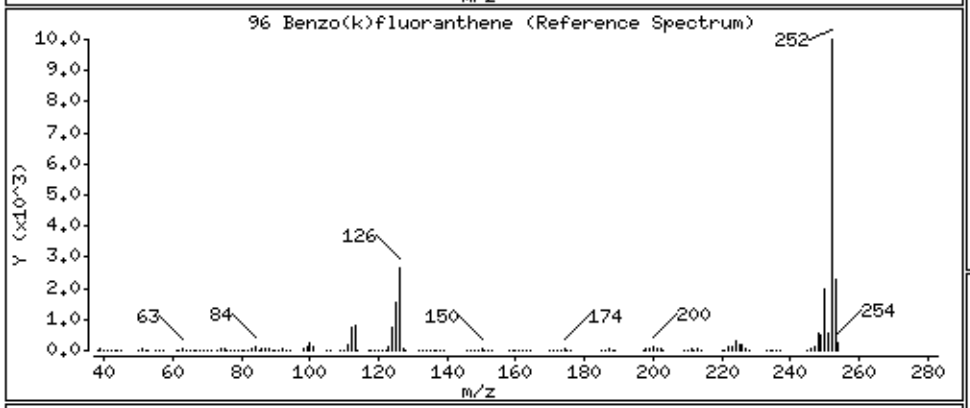
Column diameter: 0.25

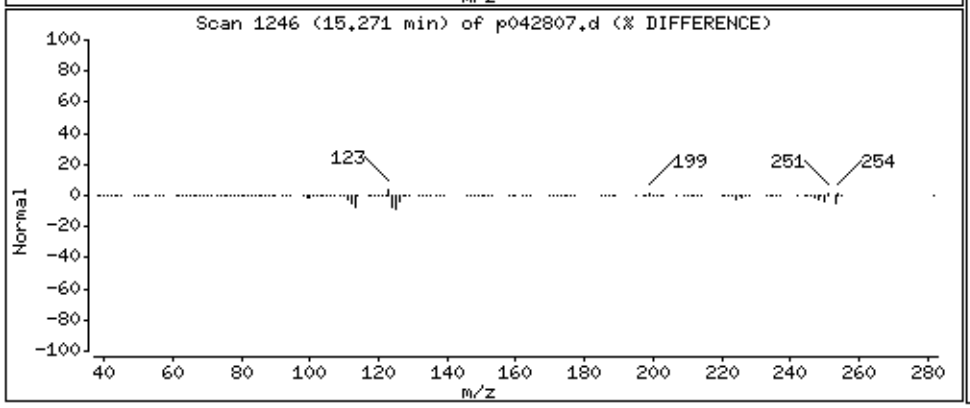
96 Benzo(k)fluoranthene

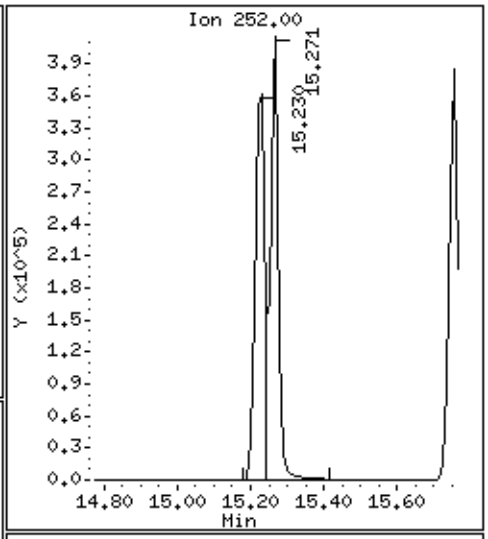
Concentration: 40.59 ug

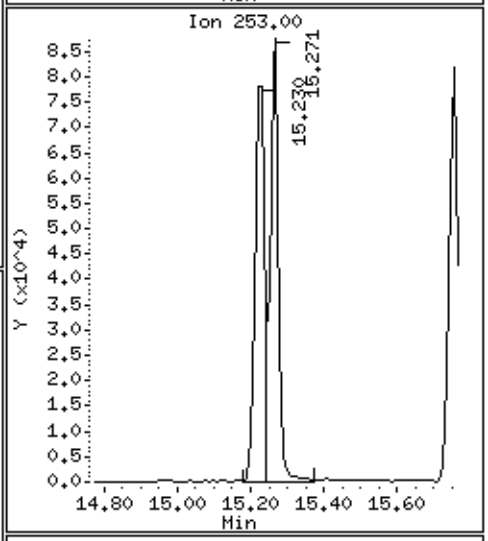


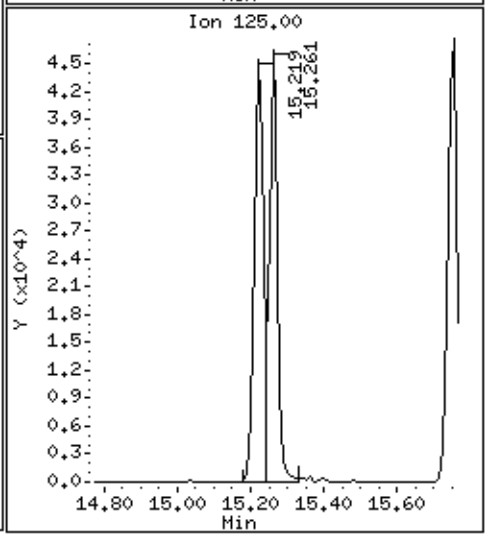












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

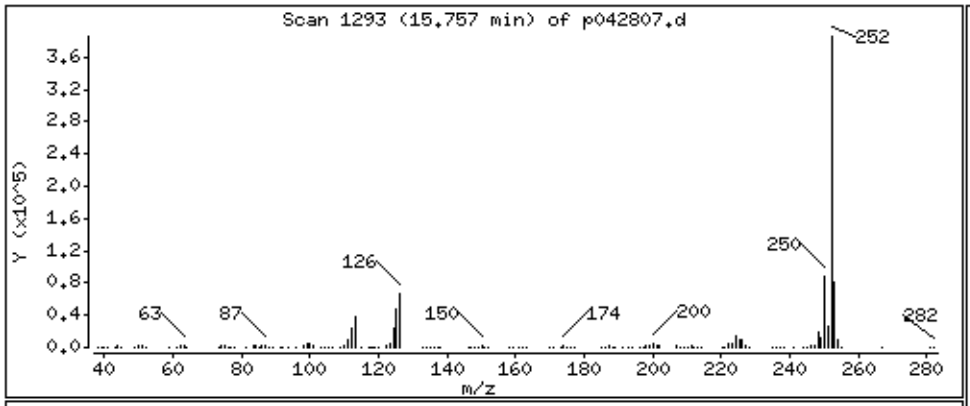
Operator: LP

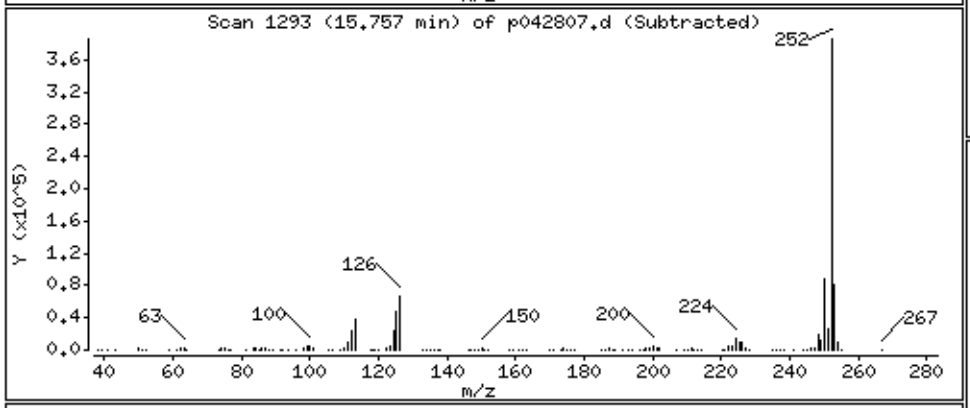
Column phase: DB-5.625

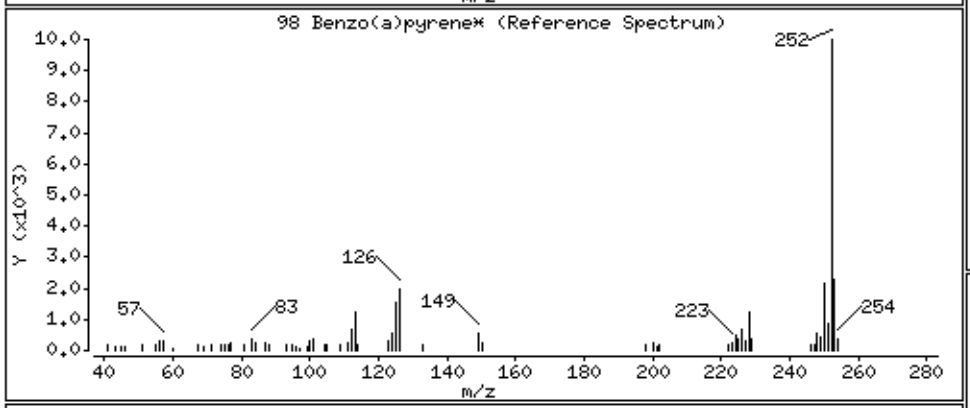
Column diameter: 0.25

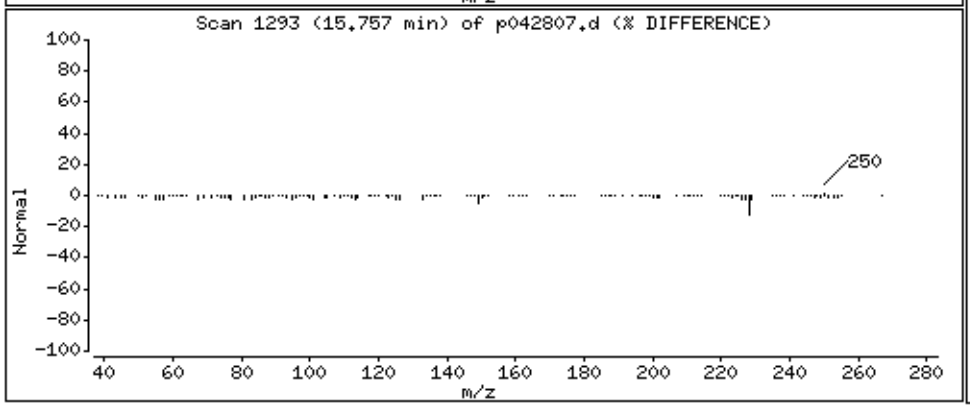
98 Benzo(a)pyrene*

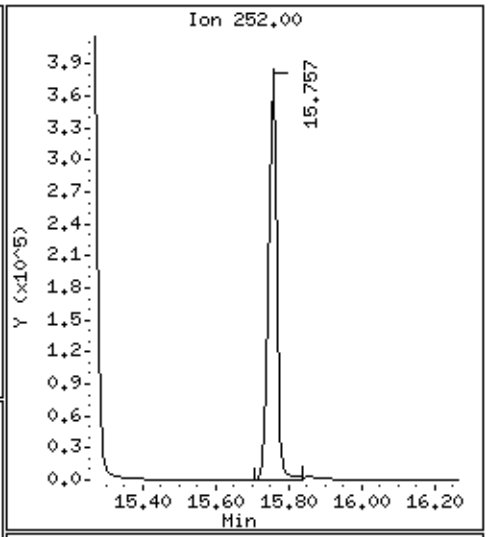
Concentration: 36.61 ug

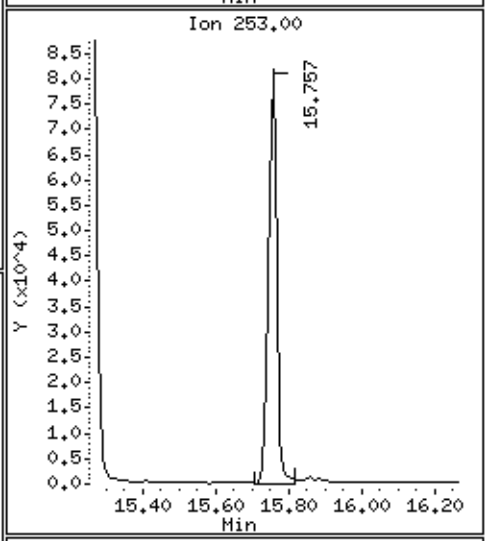


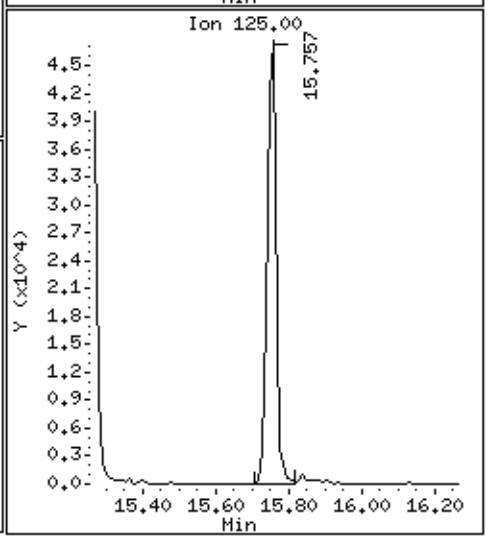












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

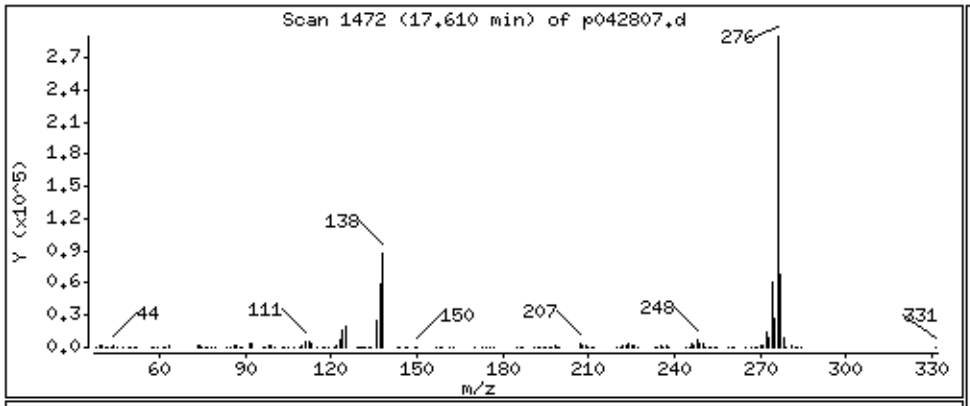
Operator: LP

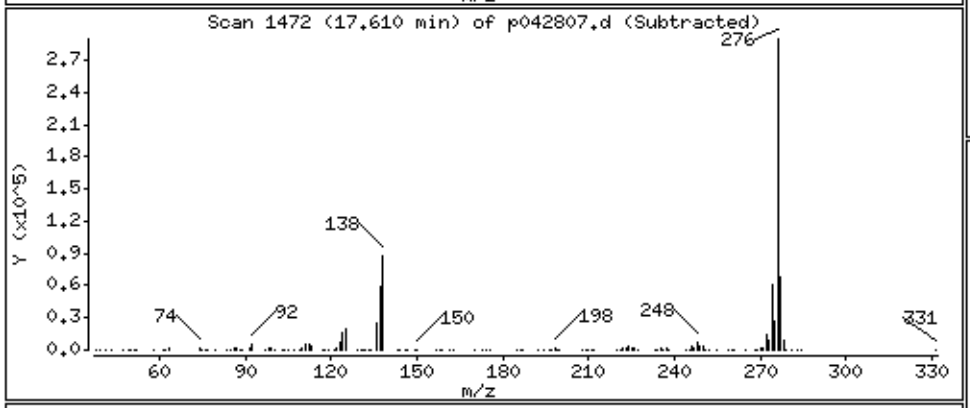
Column phase: DB-5.625

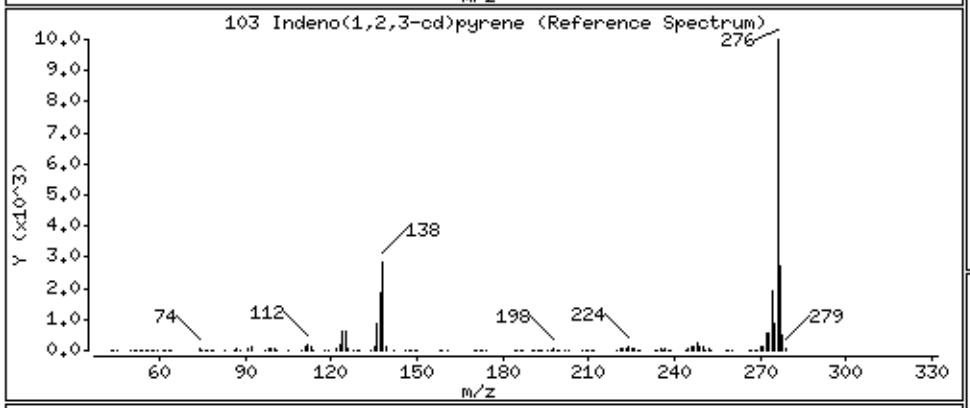
Column diameter: 0.25

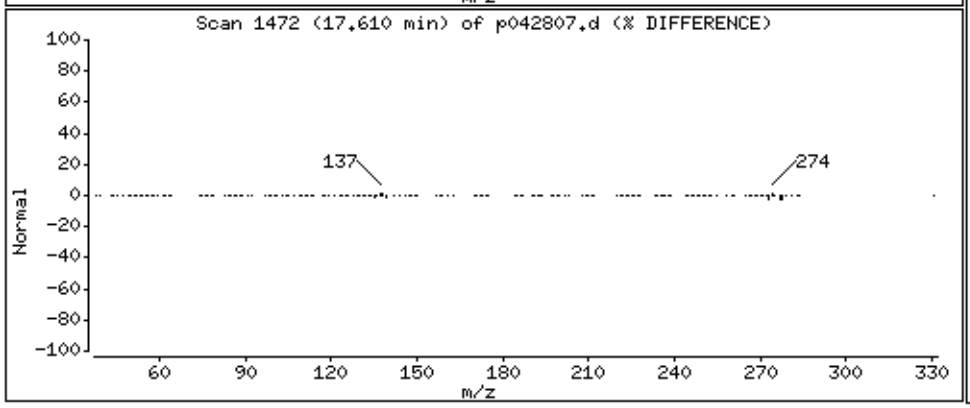
103 Indeno(1,2,3-cd)pyrene

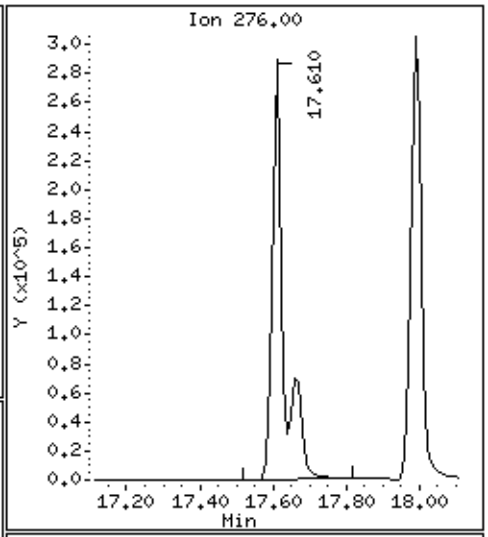
Concentration: 38.94 ug

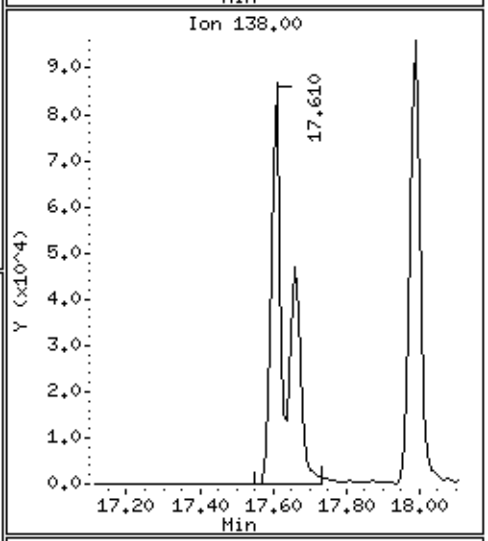


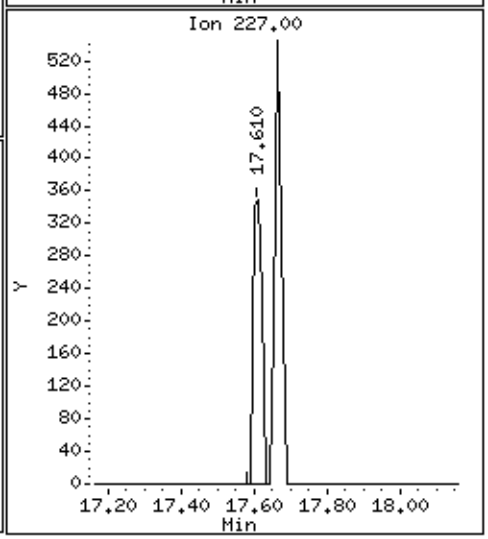












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

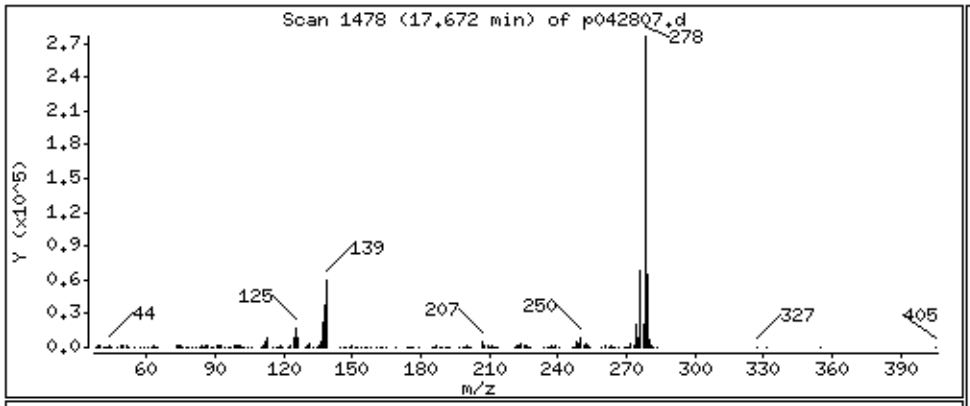
Operator: LP

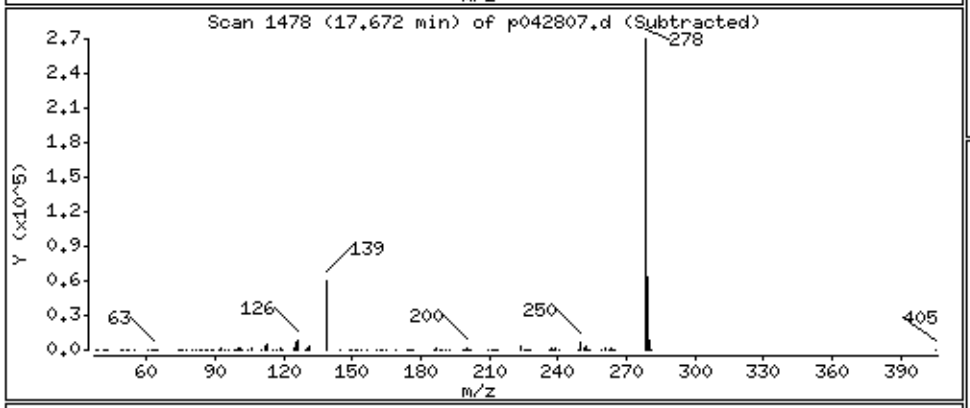
Column phase: DB-5.625

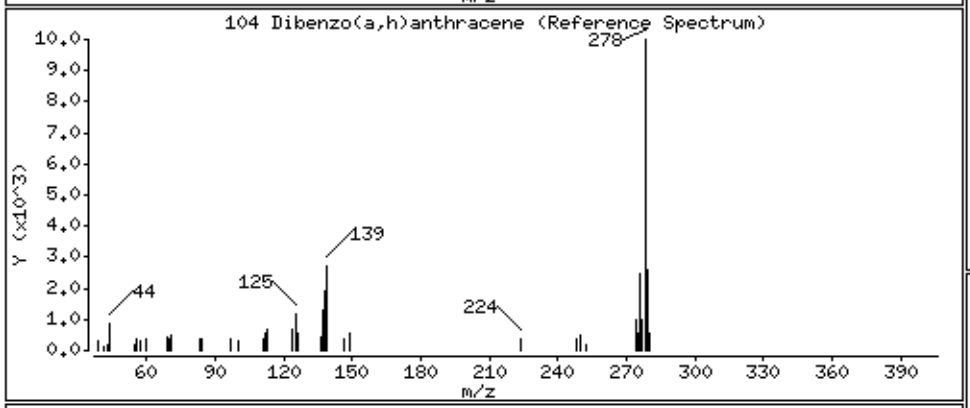
Column diameter: 0.25

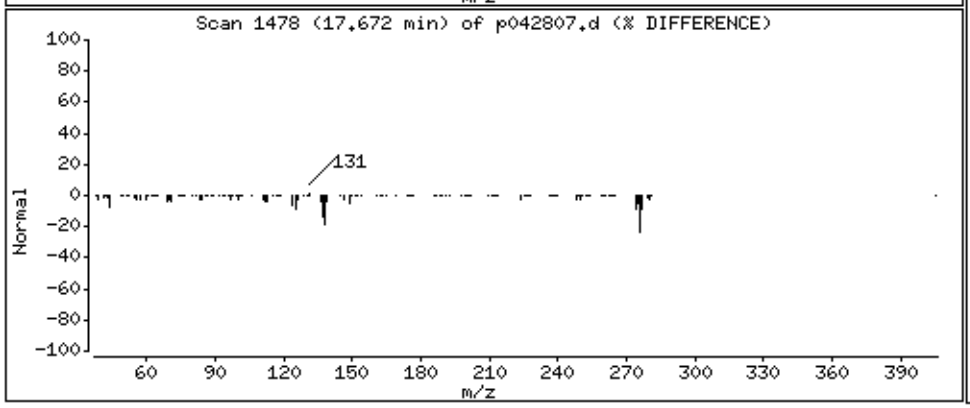
104 Dibenzo(a,h)anthracene

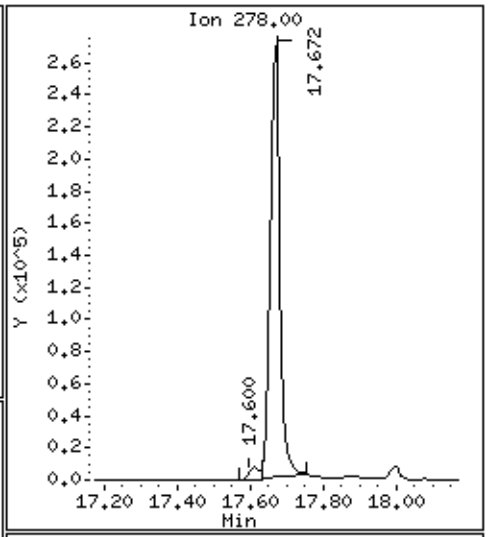
Concentration: 37.30 ug

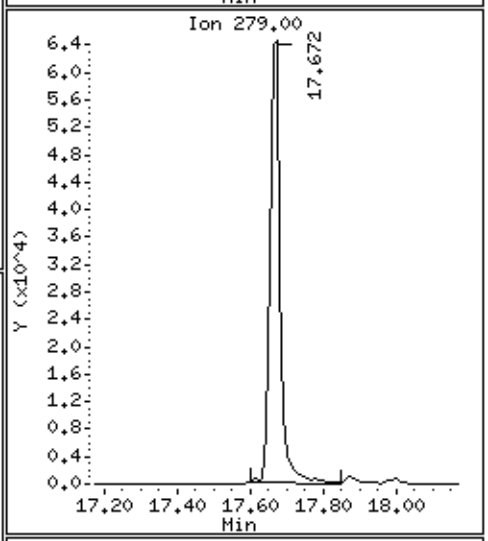


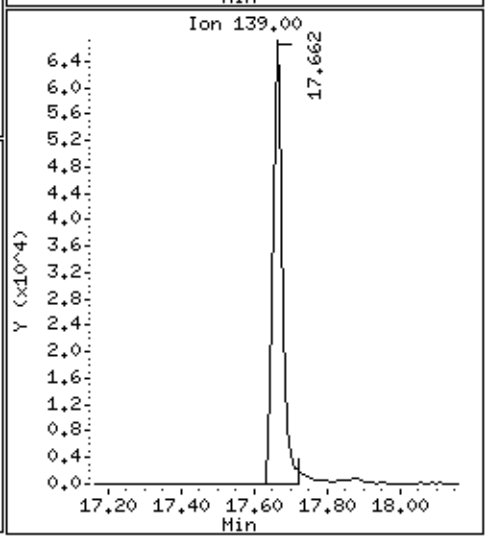












Data File: /chem/msdp.i/p28apr08.b/p042807.d

Date : 28-APR-2008 13:06

Client ID: LCS

Instrument: msdp.i

Sample Info: ;0804495B-LCS;LCS

Volume Injected (uL): 1.0

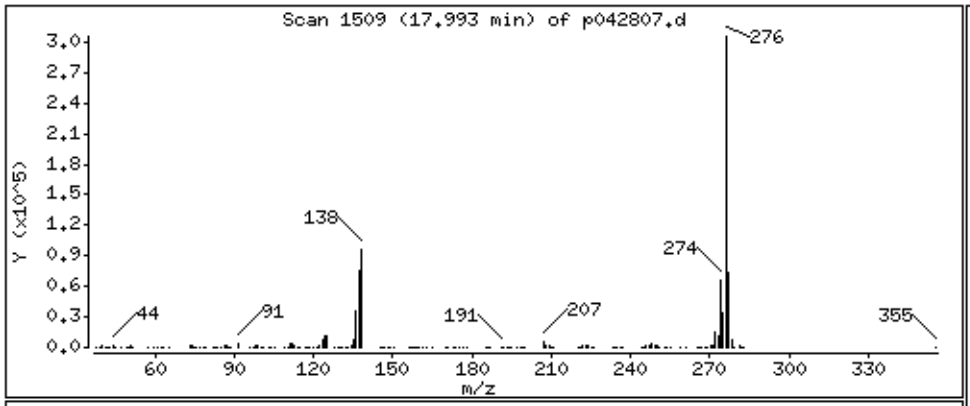
Operator: LP

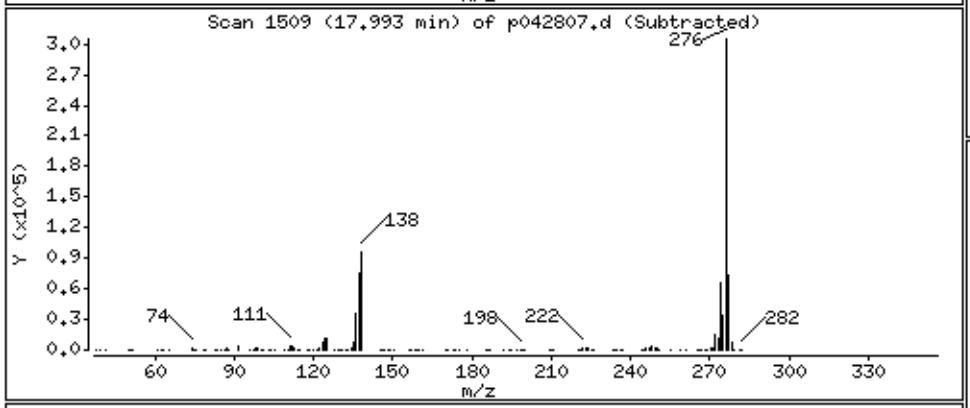
Column phase: DB-5.625

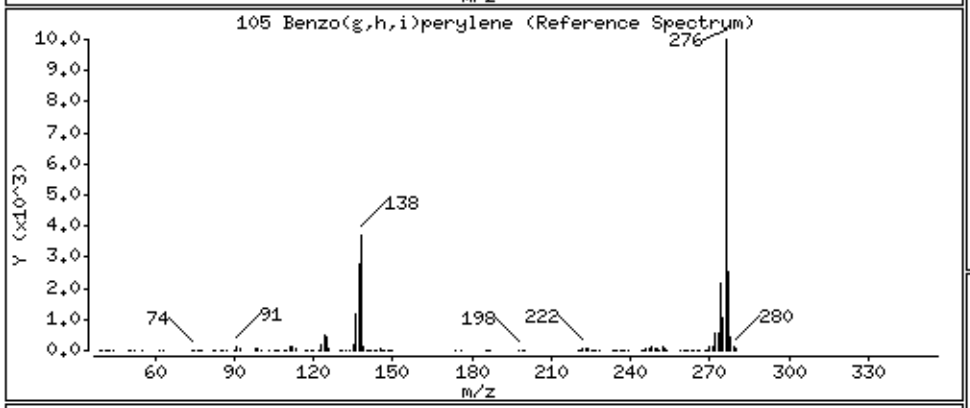
Column diameter: 0.25

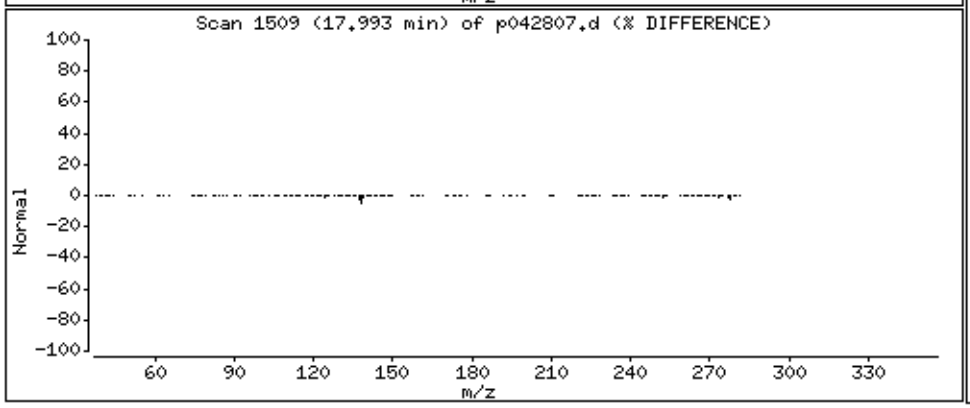
105 Benzo(g,h,i)perylene

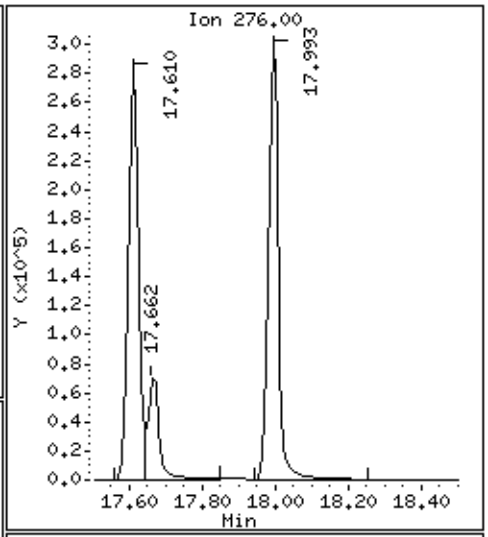
Concentration: 37.58 ug

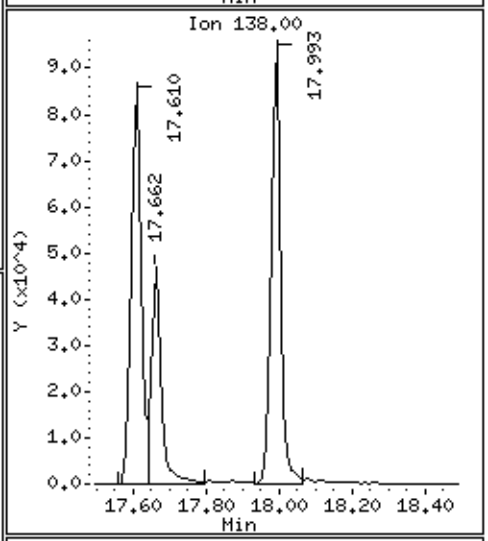


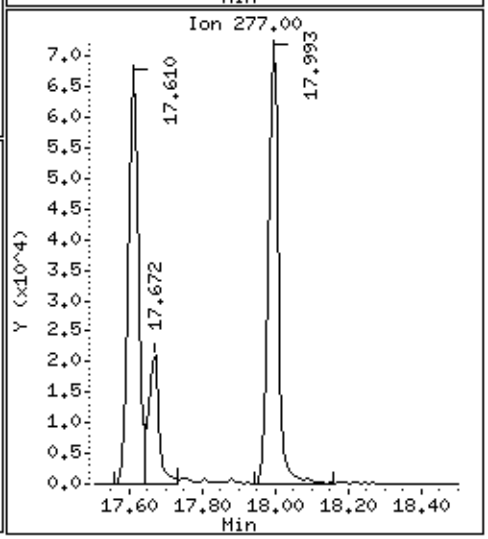












TO-13A ASE Extraction Logbook **@Air Toxics Ltd.** **Logbook#: 1606**

Date Extracted: ~~0804495~~ 4/25/08 4/25/08
Set-up By: LP
Spiked By:
Spike Date: 4/25/08

Spike Witness:
Date Witnessed: 4/25/08
☐ *Proj.Pr./COC checked* ☑ *Spike ID Verified*
☑ *Spike Amt. Verified* ☐ *Equipment checked*

Solvent: Dichloromethane
Solvent Lot #:
Concentrated By:
Date Concentrated: 4/27/08

ATL Sample ID #	Client I.D. #	Car. #	PUF / XAD/Filter Lot #	Surr. ID/Conc. (µg/mL)*	Surr. Amt. (mL)	LCS ID/Conc. (µg/mL)	LCS Amt. (mL)	Fin. Vol. (mL)
0804495B-08A	104056101	2	X080416	1316 80-100	0.5	NA	NA	1.0
-09A	6							
-10A	5							
-11A	3	3						
-12A	4							
-13A	Dup-104041808		X080416					
Lab Blank	NA	2						
LCS	NA	3				1316 74-100	0.5	
0804495B-12A	104056104	3				NA	NA	1

4/25/08

Pre-Spiked Surrogate	Surr. ID/Conc. (µg/mL)	Surr. Amt (µL)	Spiked By	Spiked Date
Benzo(a)pyrene-d_{12} Fluoranthene-d_{10}	NA			

Water Bath Temperature °C	Initial Temp °C	Final Temp °C
	70	70

Comments:

TO-13A(mod) Surrogate Compounds: 2-Fluorophenol, Phenol-d_5, Nitrobenzene-d_5, 2,4,6-Tribromophenol, Fluorene-d_{10} and Pyrene-d_{10}

**PAH Surrogate Compounds: Fluorene-d_{10} and Pyrene-d_{10}*

Signed: Date: 4/25/08

Revised: 01/04

MSD-P Run Log

@Air Toxics Ltd.

Logbook#: 1641

Method: TO13A

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.22
68	Less than 2.00% of mass 69	0.75 (1.68)1
69	Less than 99.90% of mass 198	44.50
70	Less than 2.00% of mass 69	0.22 (0.49)1
127	40.00 – 60.00% of mass 198	47.65
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 30.00% of mass 198	20.46
365	Greater than 1.00% of mass 198	2.92
441	Present, but less than mass 443	10.02
442	40.00 - 100.00% of mass 198	69.27
443	17.00 - 23.00% of mass 442	13.06 (18.86)2

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Instrument ID: MSD-P
DFTPP File ID: P042802
DFTPP Injection Date: 4/28/08
DFTPP Injection Time 10:36

#1500-124-1000 IS	Area Counts
1,4-Dichlorobenzene-d_4:	257636
Naphthalene-d_8:	577911
Acenaphthene-d_{10}:	304018
Phenanthrene-d_{10}:	495479
Chrysene-d_{12}:	468156
Perylene-d_{12}:	371605

Injection Volume: 1.0 µL

	use	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	✓	P042801	MeCl2 Wash	1	1.00	4/28/08	10:10	UP	
2	✓	02	1500-76C-50 tune	2			10:36		8.71 breakdown
3	✓	03	1500-~~101A~~-139-50 cc	3			10:57		
4	✓	04	MeCl2 Blank	4			11:33		
5	C	05	0804554B-BLK	5			12:07		sorr ↓
6	✓	06	0804495B-BLK	6			12:36		
7	✓	07	-LCS	7			13:06		
8	✓	08	-08A	8			13:35		
9	✓	09	-08AA	9			14:05		
10	✓	10	-09A	10			14:35		
11	✓	11	-10A	11			15:04		
12	✓	12	-11A	12			15:34		
13	✓	13	-12A	13			16:04		
14	✓	14	-13A	14			16:34		
15									
16									
17									
18									
19									
20									
21									
22									
23							UP	4/28/08	

Calculation Check:

ng of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(467852)}{(358233)} \times \frac{(40.0)}{(1.28202)} = 40.75$

File ID: P042807
Compound: Fluorene
Initials: UP

Signed

4/28/08
Date

Air Toxics Ltd.

Data file : /var/chem/msdp.i/p21dec07.b/p122102.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 21-DEC-2007 10:04
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-76A-50;TUNE
Misc Info :
Comment :
Method : /var/chem/msdp.i/p21dec07.b/dftpp.m
Meth Date : 21-Dec-2007 10:03 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug)	TARGET RANGE	RATIO
1 dftpp					CAS #:		
5.710	5.832 (0.000)	198	68301			100.00- 100.00	100.00
5.710	5.832 (0.000)	51	34503			30.00- 60.00	50.52
5.710	5.832 (0.000)	68	419			0.00- 2.00	1.43
5.710	5.832 (0.000)	69	29353			0.00- 99.90	42.98
5.710	5.832 (0.000)	70	256			0.00- 2.00	0.87
5.710	5.832 (0.000)	127	33710			40.00- 60.00	49.36
5.710	5.832 (0.000)	197	248			0.00- 1.00	0.36
5.710	5.832 (0.000)	199	4741			5.00- 9.00	6.94
5.710	5.832 (0.000)	275	13650			10.00- 30.00	19.99
5.710	5.832 (0.000)	365	1698			1.00- 0.00	2.49
5.710	5.832 (0.000)	441	6953			0.01- 99.99	79.71
5.710	5.832 (0.000)	442	46295			40.00- 100.00	67.78
5.710	5.832 (0.000)	443	8723			17.00- 23.00	18.84

Data File: /var/chem/msdp.i/p21dec07.b/p122102.d

Date : 21-DEC-2007 10:04

Client ID: DFTPP 50ng

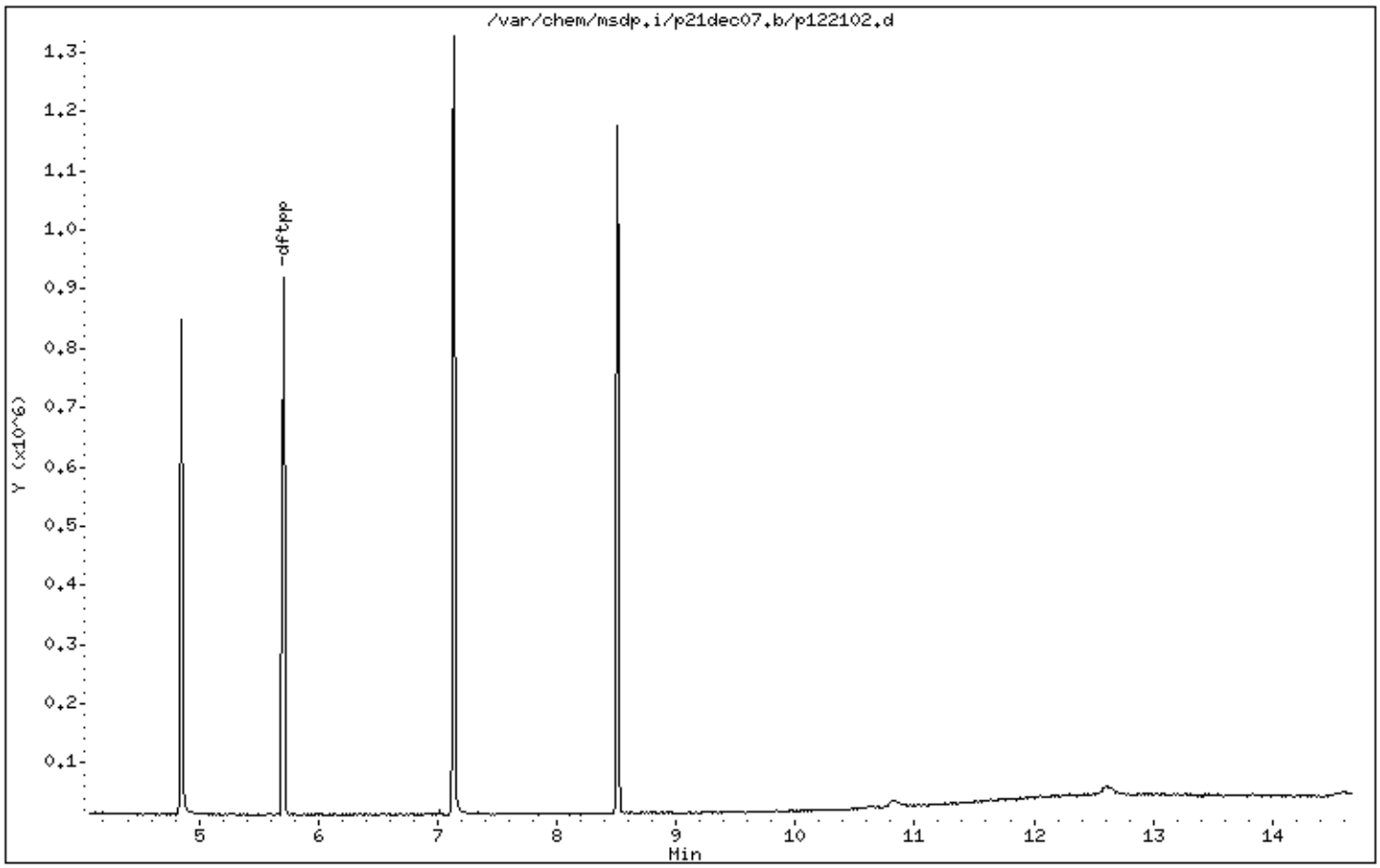
Instrument: msdp.i

Sample Info: ;1500-76A-50;TUNE

Operator: LP

Column phase:

Column diameter: 0.25



Data File: /var/chem/msdp.i/p21dec07.b/p122102.d

Date : 21-DEC-2007 10:04

Client ID: DFTPP 50ng

Instrument: msdp.i

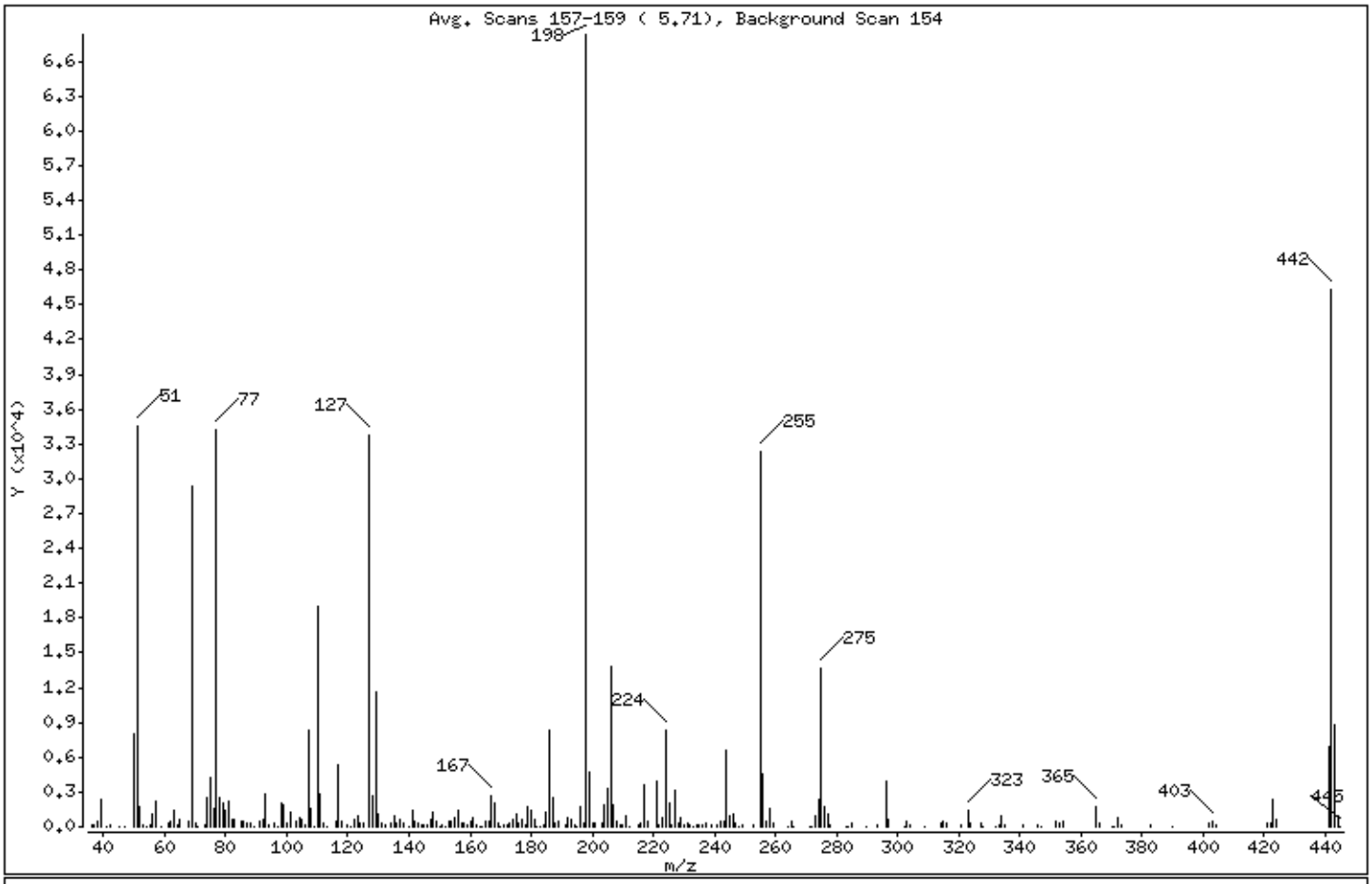
Sample Info: ;1500-76A-50;TUNE

Operator: LP

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.52
68	Less than 2.00% of mass 69	0.61 (1.43)
69	Less than 99.90% of mass 198	42.98
70	Less than 2.00% of mass 69	0.37 (0.87)
127	40.00 - 60.00% of mass 198	49.36
197	Less than 1.00% of mass 198	0.36
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 30.00% of mass 198	19.99
365	Greater than 1.00% of mass 198	2.49
441	Present, but less than mass 443	10.18
442	40.00 - 100.00% of mass 198	67.78
443	17.00 - 23.00% of mass 442	12.77 (18.84)

Date : 21-DEC-2007 10:04

Client ID: DFTPP 50ng Instrument: msdp.i

Sample Info: ;1500-76A-50;TUNE

Operator: LP

Column phase: Column diameter: 0.25

Data File: p122102.d
Spectrum: Avg. Scans 157-159 (5.71), Background Scan 154
Location of Maximum: 198.00
Number of points: 251

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	80	116.00	450	183.00	55	258.00	1594
37.00	131	117.00	5288	184.00	101	259.00	253
38.00	414	118.00	409	185.00	1207	264.00	56
39.00	2404	120.00	89	186.00	8245	265.00	511
41.00	62	121.00	53	187.00	2491	266.00	54
42.00	232	122.00	552	188.00	307	271.00	50
45.00	76	123.00	933	189.00	429	272.00	60
47.00	42	124.00	383	191.00	235	273.00	926
50.00	8039	125.00	359	192.00	789	274.00	2388
51.00	34496	127.00	33704	193.00	686	275.00	13650
52.00	1678	128.00	2615	194.00	177	276.00	1740
53.00	134	129.00	11685	195.00	64	277.00	1160
54.00	62	130.00	1105	196.00	1803	278.00	208
55.00	84	131.00	281	197.00	248	283.00	71
56.00	1112	132.00	176	198.00	68296	284.00	67
57.00	2204	134.00	278	199.00	4741	285.00	262
59.00	53	135.00	957	200.00	253	290.00	74
61.00	331	136.00	286	201.00	370	293.00	134
62.00	406	137.00	589	203.00	361	296.00	3892
63.00	1335	138.00	243	204.00	1816	297.00	645
64.00	143	140.00	58	205.00	3348	302.00	54
65.00	691	141.00	1384	206.00	13873	303.00	463
68.00	419	142.00	532	207.00	1933	304.00	87
69.00	29352	143.00	380	208.00	410	309.00	50
70.00	256	144.00	141	209.00	164	314.00	244
71.00	54	145.00	90	210.00	138	315.00	481
73.00	121	146.00	216	211.00	893	316.00	260
74.00	2505	147.00	637	212.00	77	321.00	101
75.00	4301	148.00	1282	215.00	133	323.00	1490
76.00	1565	149.00	419	216.00	357	324.00	253
77.00	34280	150.00	66	217.00	3546	327.00	278
78.00	2441	151.00	219	218.00	540	328.00	55
79.00	2007	152.00	65	221.00	3950	332.00	62
80.00	1479	153.00	410	222.00	94	333.00	119
81.00	2239	154.00	416	223.00	771	334.00	907

Date : 21-DEC-2007 10:04

Client ID: DFTPP 50ng Instrument: msdp.i

Sample Info: ;1500-76A-50;TUNE

Operator: LP

Column phase: Column diameter: 0.25

Data File: p122102.d
Spectrum: Avg. Scans 157-159 (5.71), Background Scan 154
Location of Maximum: 198.00
Number of points: 251

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	674	155.00	806	224.00	8374	335.00	134
83.00	683	156.00	1384	225.00	2009	341.00	138
85.00	460	157.00	291	226.00	145	346.00	221
86.00	487	158.00	270	227.00	3197	347.00	60
87.00	259	159.00	150	228.00	382	352.00	438
88.00	260	160.00	414	229.00	727	353.00	335
89.00	61	161.00	784	230.00	82	354.00	463
91.00	456	162.00	156	231.00	351	365.00	1698
92.00	608	163.00	59	232.00	80	366.00	298
93.00	2888	164.00	69	233.00	57	370.00	50
94.00	215	165.00	534	234.00	124	371.00	61
96.00	280	166.00	443	235.00	165	372.00	806
97.00	60	167.00	2691	236.00	162	373.00	151
98.00	2105	168.00	1969	237.00	262	383.00	193
99.00	1948	169.00	290	239.00	90	390.00	57
100.00	254	170.00	65	241.00	163	402.00	308
101.00	1178	171.00	119	242.00	408	403.00	458
103.00	461	172.00	211	243.00	479	404.00	149
104.00	752	173.00	313	244.00	6600	421.00	294
105.00	706	174.00	623	245.00	932	422.00	299
106.00	222	175.00	1069	246.00	1175	423.00	2337
107.00	8397	176.00	361	247.00	264	424.00	609
108.00	1547	177.00	559	248.00	56	441.00	6953
109.00	67	178.00	140	249.00	158	442.00	46288
110.00	18968	179.00	1684	253.00	147	443.00	8723
111.00	2757	180.00	1438	255.00	32352	444.00	852
112.00	296	181.00	675	256.00	4559	445.00	58
113.00	54	182.00	55	257.00	401		

Air Toxics Ltd.

Data file : /var/chem/msdp.i/p07mar08.b/p030702.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 07-MAR-2008 11:10
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-76B-50;TUNE
Misc Info :
Comment :
Method : /var/chem/msdp.i/p07mar08.b/dftpp.m
Meth Date : 07-Mar-2008 11:08 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug)		
RT	EXP RT (REL RT)	MASS	RESPONSE			TARGET RANGE	RATIO
1 dftpp						CAS #:	
5.462	5.832 (0.000)	198	67554			100.00- 100.00	100.00
5.462	5.832 (0.000)	51	30952			30.00- 60.00	45.82
5.462	5.832 (0.000)	68	255			0.00- 2.00	0.84
5.462	5.832 (0.000)	69	30457			0.00- 99.90	45.09
5.462	5.832 (0.000)	70	132			0.00- 2.00	0.43
5.462	5.832 (0.000)	127	35258			40.00- 60.00	52.19
5.462	5.832 (0.000)	197	0			0.00- 1.00	0.00
5.462	5.832 (0.000)	199	4495			5.00- 9.00	6.65
5.462	5.832 (0.000)	275	14107			10.00- 30.00	20.88
5.462	5.832 (0.000)	365	1815			1.00- 0.00	2.69
5.462	5.832 (0.000)	441	6791			0.01- 99.99	78.43
5.462	5.832 (0.000)	442	45005			40.00- 100.00	66.62
5.462	5.832 (0.000)	443	8659			17.00- 23.00	19.24

Data File: /var/chem/msdp.i/p07mar08.b/p030702.d

Date : 07-MAR-2008 11:10

Client ID: DFTPP 50ng

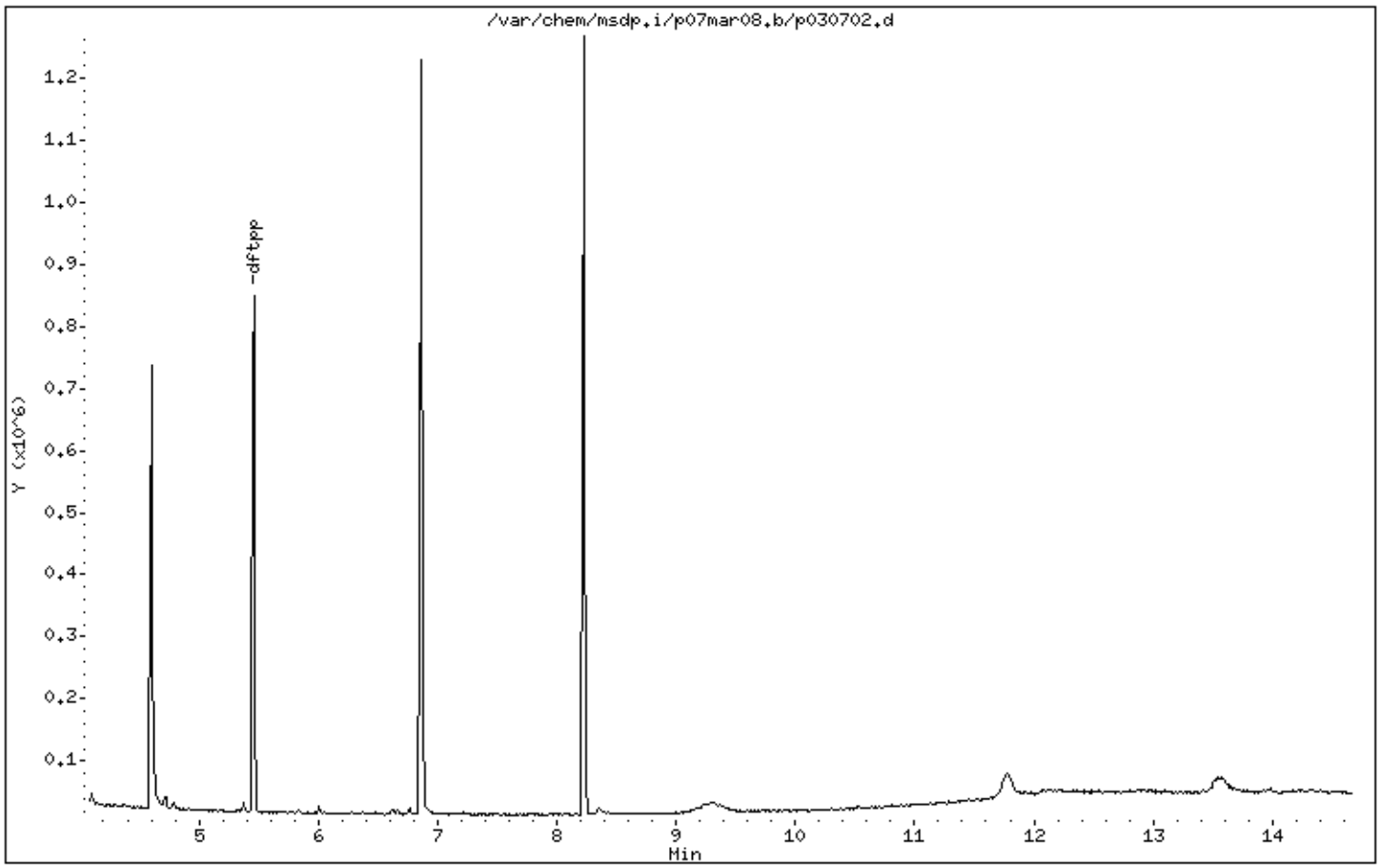
Instrument: msdp.i

Sample Info: ;1500-76B-50;TUNE

Operator: LP

Column phase:

Column diameter: 0.25



Data File: /var/chem/msdp.i/p07mar08.b/p030702.d

Date : 07-MAR-2008 11:10

Client ID: DFTPP 50ng

Instrument: msdp.i

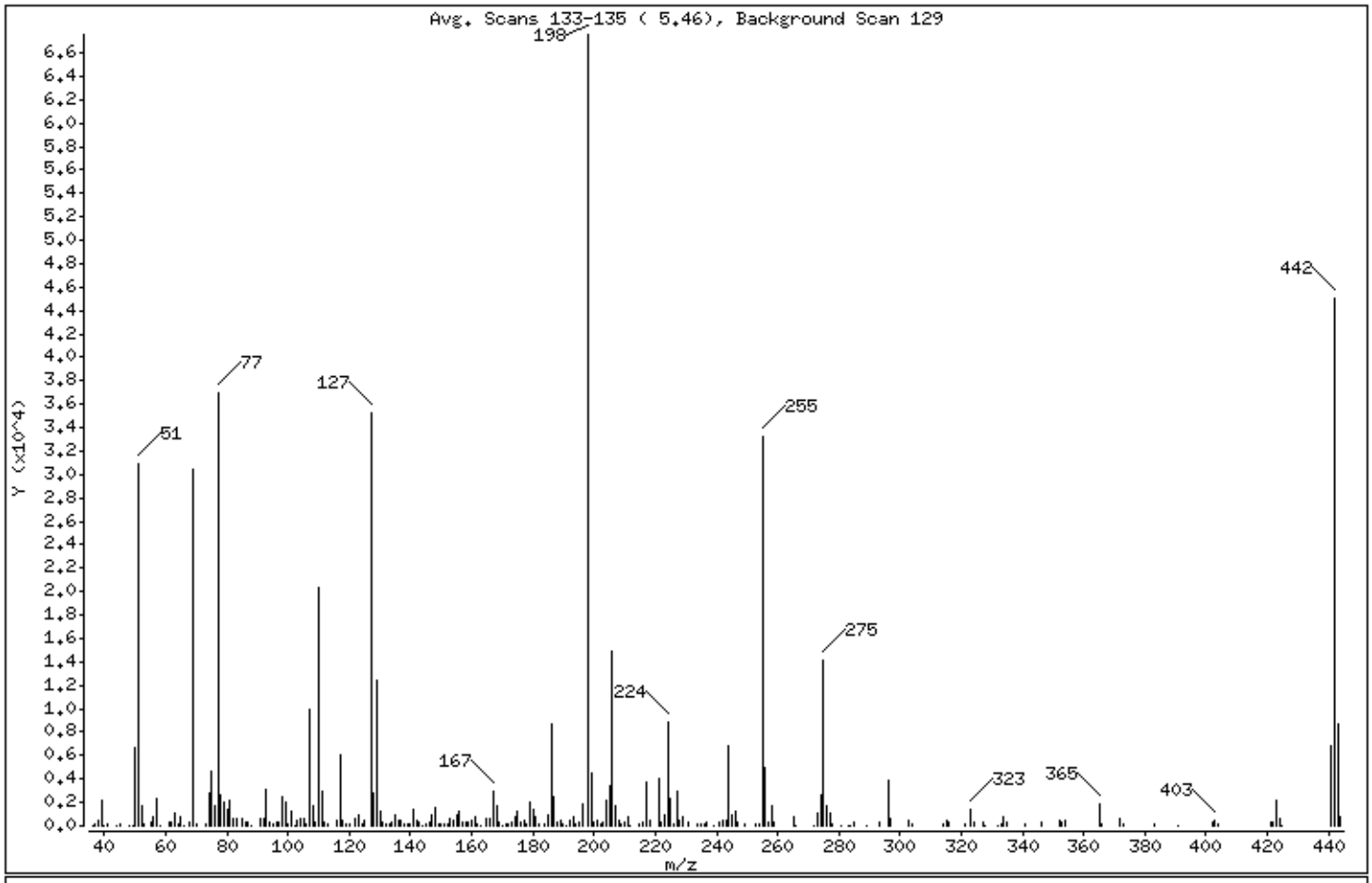
Sample Info: ;1500-76B-50;TUNE

Operator: LP

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.82
68	Less than 2.00% of mass 69	0.38 (0.84)
69	Less than 99.90% of mass 198	45.09
70	Less than 2.00% of mass 69	0.20 (0.43)
127	40.00 - 60.00% of mass 198	52.19
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.65
275	10.00 - 30.00% of mass 198	20.88
365	Greater than 1.00% of mass 198	2.69
441	Present, but less than mass 443	10.05
442	40.00 - 100.00% of mass 198	66.62
443	17.00 - 23.00% of mass 442	12.82 (19.24)

Date : 07-MAR-2008 11:10

Client ID: DFTPP 50ng Instrument: msdp.i

Sample Info: ;1500-76B-50;TUNE

Operator: LP

Column phase: Column diameter: 0.25

Data File: p030702.d
Spectrum: Avg. Scans 133-135 (5.46), Background Scan 129
Location of Maximum: 198.00
Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	50	111.00	2913	178.00	199	255.00	33176
37.00	218	112.00	314	179.00	1945	256.00	5020
38.00	420	113.00	149	180.00	1436	257.00	291
39.00	2125	116.00	407	181.00	806	258.00	1669
40.00	43	117.00	6108	182.00	147	259.00	272
41.00	159	118.00	468	184.00	212	265.00	753
44.00	46	119.00	143	185.00	979	266.00	67
45.00	133	120.00	134	186.00	8712	272.00	55
48.00	43	122.00	633	187.00	2441	273.00	1152
49.00	55	123.00	923	188.00	283	274.00	2656
50.00	6629	124.00	132	189.00	430	275.00	14107
51.00	30952	125.00	394	190.00	132	276.00	1728
52.00	1674	127.00	35256	191.00	32	277.00	1108
53.00	146	128.00	2742	192.00	533	278.00	165
55.00	314	129.00	12405	193.00	752	281.00	4
56.00	713	130.00	1170	194.00	188	283.00	58
57.00	2350	131.00	254	195.00	256	284.00	57
58.00	39	132.00	166	196.00	1929	285.00	243
61.00	307	133.00	139	198.00	67552	289.00	51
62.00	368	134.00	381	199.00	4495	293.00	244
63.00	1092	135.00	1004	200.00	317	296.00	3848
64.00	154	136.00	455	201.00	476	297.00	632
65.00	704	137.00	493	202.00	183	303.00	537
66.00	66	138.00	81	203.00	352	304.00	128
68.00	255	139.00	103	204.00	2118	314.00	175
69.00	30456	140.00	175	205.00	3442	315.00	391
70.00	132	141.00	1329	206.00	14964	316.00	276
73.00	230	142.00	481	207.00	1700	321.00	159
74.00	2771	143.00	324	208.00	522	323.00	1322
75.00	4697	144.00	50	209.00	139	324.00	245
76.00	1717	145.00	144	210.00	308	327.00	239
77.00	36912	146.00	299	211.00	699	328.00	65
78.00	2576	147.00	857	212.00	74	332.00	52
79.00	2036	148.00	1603	215.00	146	333.00	148
80.00	1451	149.00	179	216.00	292	334.00	837

Date : 07-MAR-2008 11:10

Client ID: DFTPP 50ng Instrument: msdp.i

Sample Info: ;1500-76B-50;TUNE

Operator: LP

Column phase: Column diameter: 0.25

Data File: p030702.d
Spectrum: Avg. Scans 133-135 (5.46), Background Scan 129
Location of Maximum: 198.00
Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	2235	150.00	124	217.00	3676	335.00	248
82.00	680	151.00	217	218.00	423	341.00	218
83.00	598	152.00	202	221.00	3987	346.00	342
85.00	632	153.00	551	222.00	244	352.00	509
86.00	319	154.00	408	223.00	929	353.00	370
87.00	344	155.00	899	224.00	8877	354.00	418
88.00	6	156.00	1221	225.00	2311	365.00	1815
91.00	644	157.00	374	226.00	189	366.00	186
92.00	649	158.00	244	227.00	2997	372.00	636
93.00	3119	159.00	244	228.00	441	373.00	119
94.00	252	160.00	427	229.00	717	383.00	200
95.00	194	161.00	717	231.00	324	391.00	58
96.00	363	162.00	225	234.00	158	402.00	298
97.00	284	163.00	76	235.00	105	403.00	421
98.00	2432	165.00	562	236.00	190	404.00	107
99.00	2026	166.00	562	237.00	349	421.00	324
100.00	212	167.00	2900	239.00	75	422.00	361
101.00	1207	168.00	1673	241.00	235	423.00	2241
102.00	64	169.00	340	242.00	540	424.00	577
103.00	483	170.00	57	243.00	451	425.00	73
104.00	690	171.00	101	244.00	6822	441.00	6791
105.00	554	172.00	212	245.00	932	442.00	45000
106.00	222	173.00	302	246.00	1258	443.00	8659
107.00	9937	174.00	717	247.00	235	444.00	854
108.00	1711	175.00	1304	249.00	192		
109.00	252	176.00	307	253.00	132		
110.00	20296	177.00	467	254.00	139		

Air Toxics Ltd.

Data file : /chem/msdp.i/p16apr08.b/p041608.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 16-APR-2008 15:26
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-76C-50;TUNE
Misc Info :
Comment :
Method : /var/chem/msdp.i/p16apr08.b/dftpp.m
Meth Date : 16-Apr-2008 10:40 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug)		
RT	EXP RT (REL RT)	MASS	RESPONSE			TARGET RANGE	RATIO
1 dftpp						CAS #:	
5.296	5.348 (0.000)	198	65192			100.00- 100.00	100.00
5.296	5.348 (0.000)	51	29771			30.00- 60.00	45.67
5.296	5.348 (0.000)	68	563			0.00- 2.00	1.91
5.296	5.348 (0.000)	69	29458			0.00- 99.90	45.19
5.296	5.348 (0.000)	70	148			0.00- 2.00	0.50
5.296	5.348 (0.000)	127	34968			40.00- 60.00	53.64
5.296	5.348 (0.000)	197	50			0.00- 1.00	0.08
5.296	5.348 (0.000)	199	4409			5.00- 9.00	6.76
5.296	5.348 (0.000)	275	13896			10.00- 30.00	21.32
5.296	5.348 (0.000)	365	1804			1.00- 0.00	2.77
5.296	5.348 (0.000)	441	7233			0.01- 99.99	80.19
5.296	5.348 (0.000)	442	48762			40.00- 100.00	74.80
5.296	5.348 (0.000)	443	9020			17.00- 23.00	18.50

Data File: /chem/msdp.i/p16apr08.b/p041608.d

Date : 16-APR-2008 15:26

Client ID: DFTPP 50ng

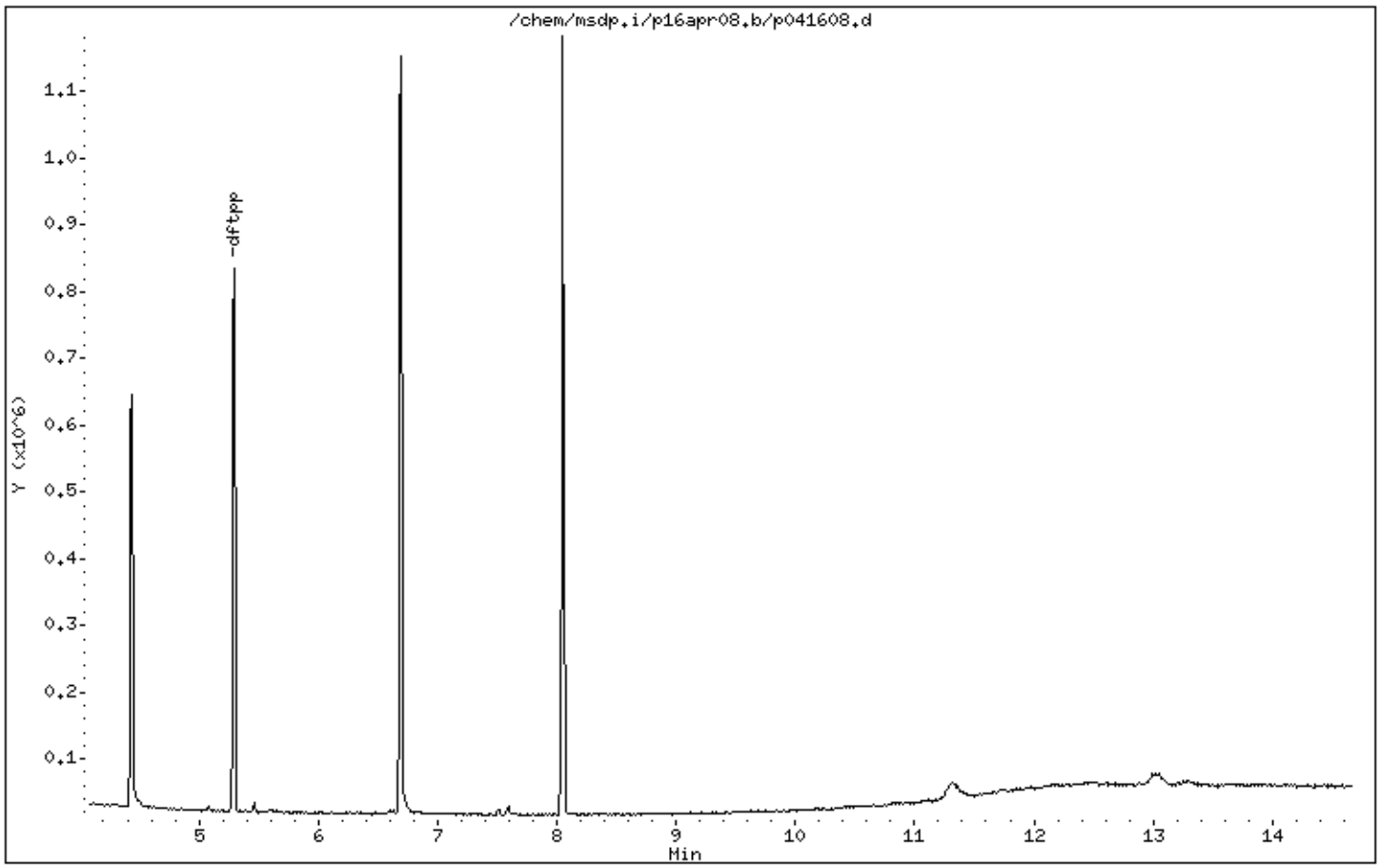
Instrument: msdp.i

Sample Info: ;1500-76C-50;TUNE

Operator: LP

Column phase:

Column diameter: 0.25



Data File: /chem/msdp.i/p16apr08.b/p041608.d

Date : 16-APR-2008 15:26

Client ID: DFTPP 50ng

Instrument: msdp.i

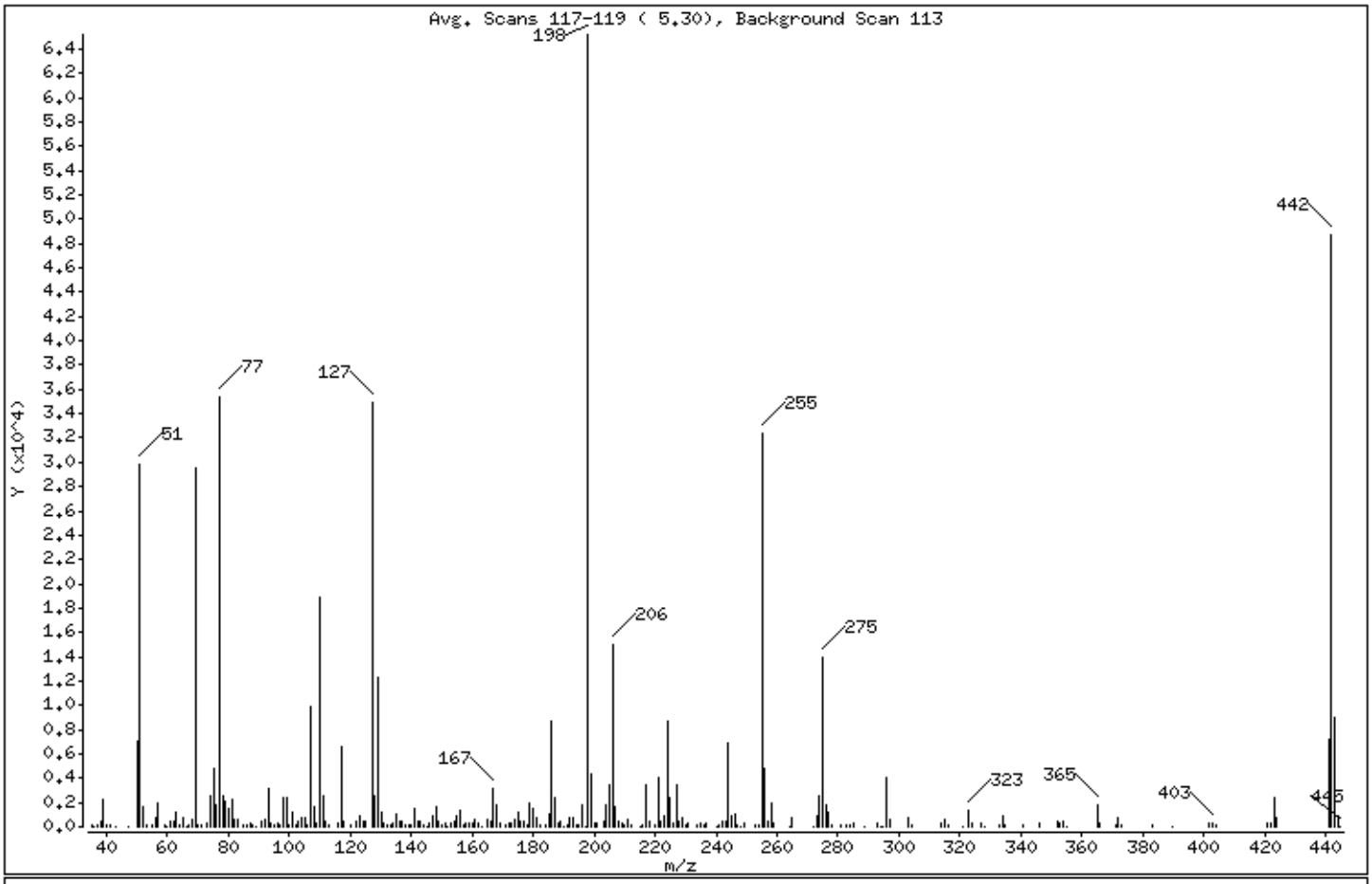
Sample Info: ;1500-76C-50;TUNE

Operator: LP

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.67
68	Less than 2.00% of mass 69	0.86 (1.91)
69	Less than 99.90% of mass 198	45.19
70	Less than 2.00% of mass 69	0.23 (0.50)
127	40.00 - 60.00% of mass 198	53.64
197	Less than 1.00% of mass 198	0.08
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	21.32
365	Greater than 1.00% of mass 198	2.77
441	Present, but less than mass 443	11.09
442	40.00 - 100.00% of mass 198	74.80
443	17.00 - 23.00% of mass 442	13.84 (18.50)

Date : 16-APR-2008 15:26

Client ID: DFTPP 50ng Instrument: msdp.i

Sample Info: ;1500-76C-50;TUNE

Operator: LP

Column phase: Column diameter: 0.25

Data File: p041608.d
Spectrum: Avg. Scans 117-119 (5,30), Background Scan 113
Location of Maximum: 198.00
Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	77	110.00	18920	181.00	728	257.00	394
36.00	58	111.00	2621	182.00	108	258.00	1893
37.00	174	112.00	407	184.00	178	259.00	252
38.00	409	113.00	155	185.00	1057	264.00	68
39.00	2294	116.00	366	186.00	8657	265.00	756
40.00	76	117.00	6521	187.00	2358	272.00	66
41.00	112	118.00	478	188.00	263	273.00	923
43.00	37	120.00	131	189.00	425	274.00	2574
47.00	43	122.00	514	190.00	62	275.00	13896
50.00	7011	123.00	931	191.00	194	276.00	1860
51.00	29768	124.00	472	192.00	811	277.00	1235
52.00	1641	125.00	391	193.00	772	278.00	155
53.00	131	127.00	34968	194.00	186	281.00	75
55.00	107	128.00	2552	195.00	165	283.00	107
56.00	724	129.00	12285	196.00	1868	284.00	79
57.00	1953	130.00	1165	197.00	50	285.00	266
59.00	131	131.00	226	198.00	65192	289.00	52
60.00	57	132.00	123	199.00	4409	293.00	269
61.00	421	133.00	108	200.00	357	294.00	74
62.00	435	134.00	374	201.00	336	295.00	52
63.00	1237	135.00	984	203.00	396	296.00	4050
64.00	191	136.00	440	204.00	1829	297.00	571
65.00	761	137.00	517	205.00	3442	303.00	761
66.00	54	138.00	153	206.00	14983	304.00	87
67.00	214	139.00	116	207.00	1714	314.00	237
68.00	563	140.00	157	208.00	508	315.00	532
69.00	29456	141.00	1520	209.00	257	316.00	123
70.00	148	142.00	481	210.00	132	321.00	59
71.00	109	143.00	403	211.00	596	323.00	1329
73.00	237	144.00	76	212.00	87	324.00	282
74.00	2599	145.00	70	215.00	60	327.00	240
75.00	4759	146.00	293	216.00	223	328.00	73
76.00	1776	147.00	853	217.00	3492	333.00	142
77.00	35400	148.00	1604	218.00	389	334.00	887
78.00	2489	149.00	380	220.00	104	335.00	188

Date : 16-APR-2008 15:26

Client ID: DFTPP 50ng Instrument: msdp.i

Sample Info: ;1500-76C-50;TUNE

Operator: LP

Column phase: Column diameter: 0.25

Data File: p041608.d
Spectrum: Avg. Scans 117-119 (5,30), Background Scan 113
Location of Maximum: 198.00
Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	2140	150.00	92	221.00	4071	341.00	214
80.00	1501	151.00	236	222.00	437	346.00	239
81.00	2230	152.00	58	223.00	883	352.00	449
82.00	674	153.00	357	224.00	8700	353.00	318
83.00	533	154.00	385	225.00	2332	354.00	470
85.00	223	155.00	833	226.00	230	355.00	55
86.00	174	156.00	1377	227.00	3400	365.00	1804
87.00	277	157.00	224	228.00	443	366.00	284
88.00	162	158.00	289	229.00	691	371.00	83
89.00	56	159.00	252	230.00	85	372.00	811
91.00	400	160.00	326	231.00	301	373.00	171
92.00	589	161.00	653	234.00	170	383.00	120
93.00	3212	162.00	228	235.00	249	390.00	55
94.00	262	163.00	51	236.00	136	402.00	310
95.00	196	165.00	605	237.00	319	403.00	329
96.00	250	166.00	472	240.00	62	404.00	182
97.00	137	167.00	3211	241.00	156	421.00	366
98.00	2422	168.00	1783	242.00	402	422.00	357
99.00	2357	169.00	262	243.00	479	423.00	2387
100.00	213	171.00	123	244.00	6828	424.00	705
101.00	1227	172.00	283	245.00	838	441.00	7233
102.00	107	173.00	291	246.00	1064	442.00	48760
103.00	422	174.00	624	247.00	170	443.00	9020
104.00	800	175.00	1229	248.00	56	444.00	878
105.00	701	176.00	433	249.00	262	445.00	60
106.00	106	177.00	459	253.00	146		
107.00	9898	178.00	222	254.00	170		
108.00	1583	179.00	1901	255.00	32304		
109.00	296	180.00	1545	256.00	4781		

Air Toxics Ltd.

Data file : /var/chem/msdp.i/p28apr08.b/p042802.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 28-APR-2008 10:36
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-76C-50;TUNE
Misc Info :
Comment :
Method : /var/chem/msdp.i/p28apr08.b/dftpp.m
Meth Date : 28-Apr-2008 10:34 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug)		
RT	EXP RT (REL RT)	MASS	RESPONSE			TARGET RANGE	RATIO
1 dftpp						CAS #:	
5.253	5.348 (0.000)	198	58261			100.00- 100.00	100.00
5.253	5.348 (0.000)	51	29258			30.00- 60.00	50.22
5.253	5.348 (0.000)	68	435			0.00- 2.00	1.68
5.253	5.348 (0.000)	69	25926			0.00- 99.90	44.50
5.253	5.348 (0.000)	70	128			0.00- 2.00	0.49
5.253	5.348 (0.000)	127	27759			40.00- 60.00	47.65
5.253	5.348 (0.000)	197	0			0.00- 1.00	0.00
5.253	5.348 (0.000)	199	3763			5.00- 9.00	6.46
5.253	5.348 (0.000)	275	11923			10.00- 30.00	20.46
5.253	5.348 (0.000)	365	1700			1.00- 0.00	2.92
5.253	5.348 (0.000)	441	5836			0.01- 99.99	76.69
5.253	5.348 (0.000)	442	40360			40.00- 100.00	69.27
5.253	5.348 (0.000)	443	7610			17.00- 23.00	18.86

Data File: /var/chem/msdp.i/p28apr08.b/p042802.d

Page 1

Date : 28-APR-2008 10:36

Client ID: DFTPP 50ng

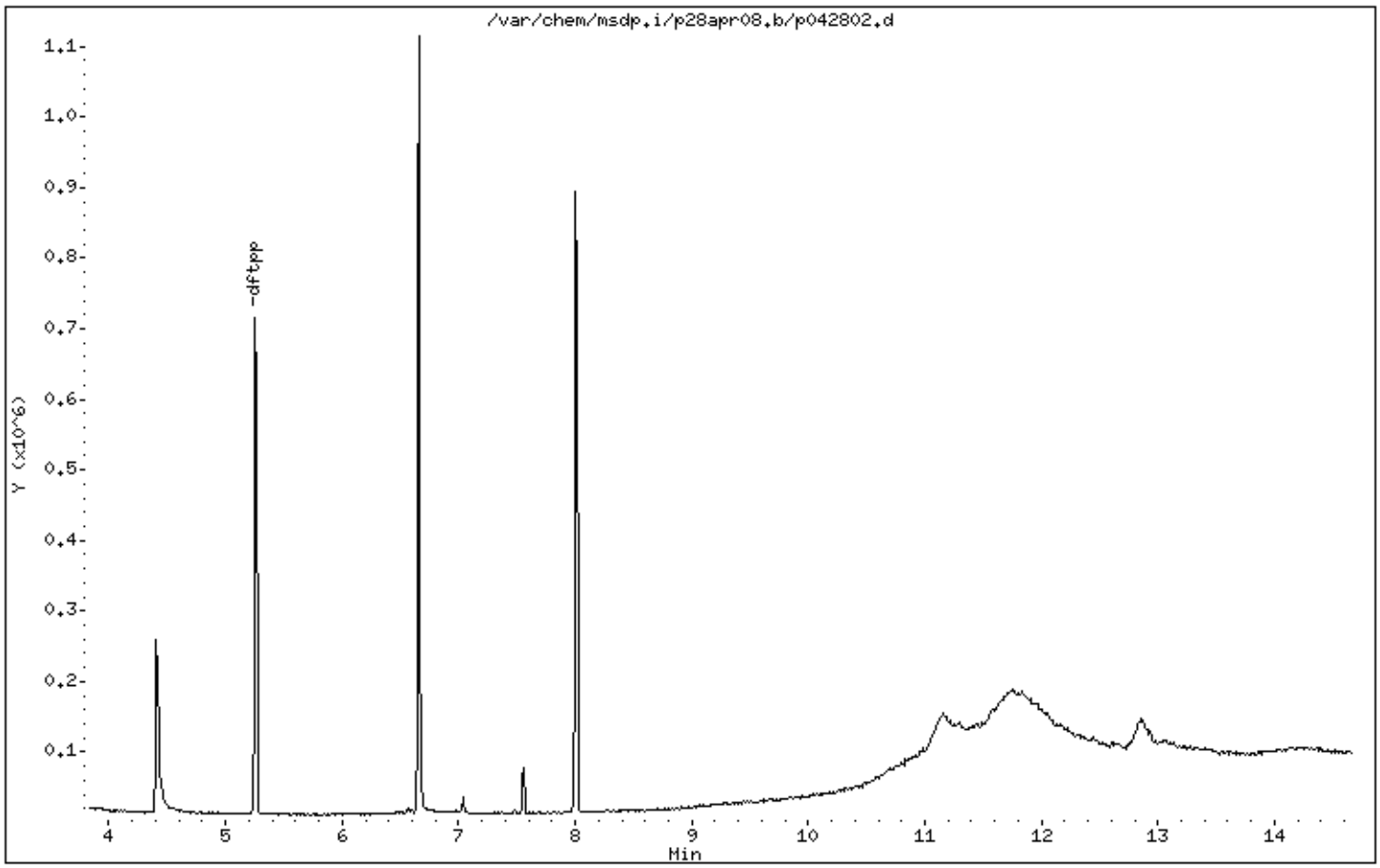
Instrument: msdp.i

Sample Info: ;1500-76C-50;TUNE

Operator: LP

Column phase:

Column diameter: 0.25



Data File: /var/chem/msdp.i/p28apr08.b/p042802.d

Date : 28-APR-2008 10:36

Client ID: DFTPP 50ng

Instrument: msdp.i

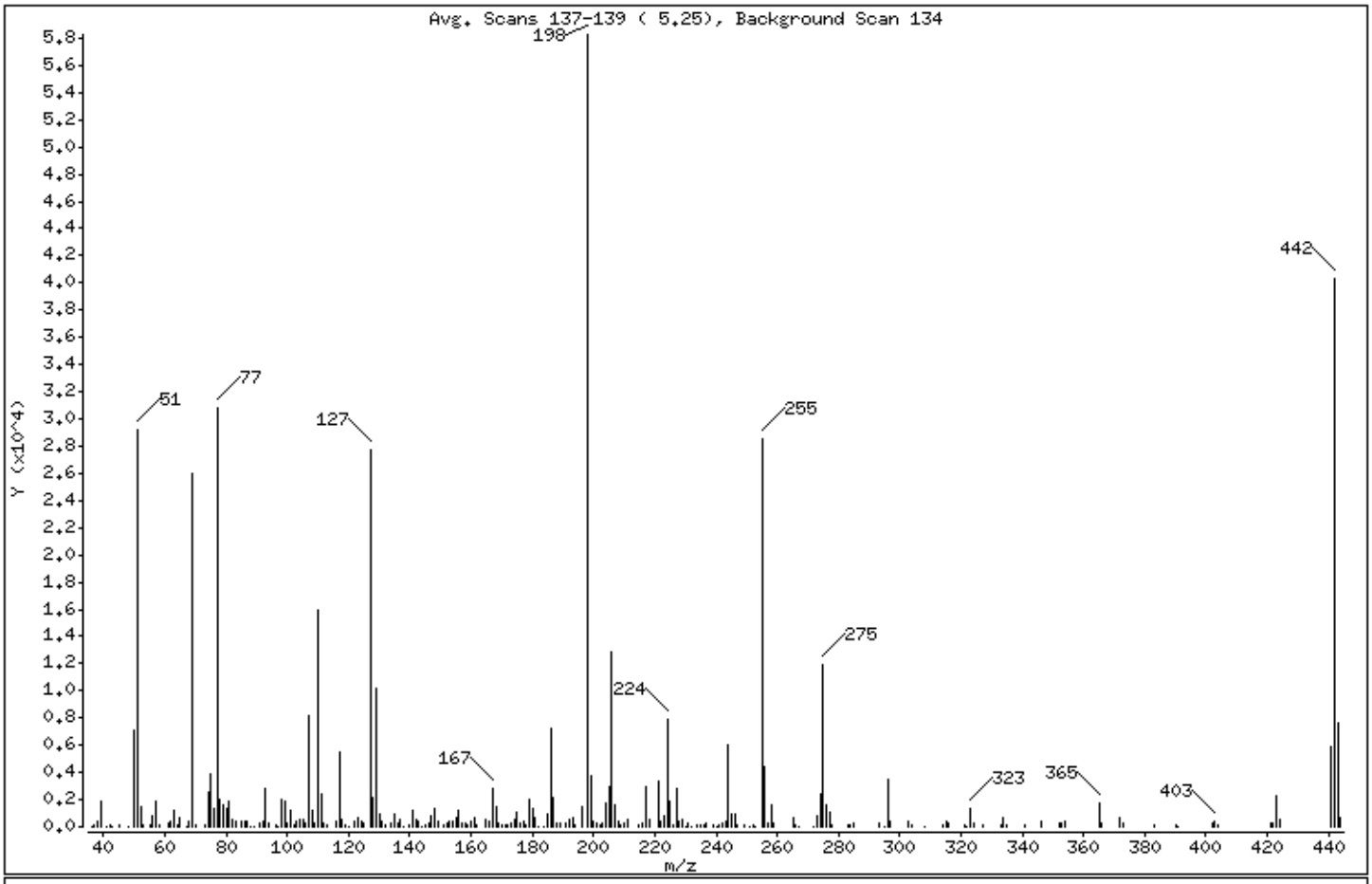
Sample Info: ;1500-76C-50;TUNE

Operator: LP

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.22
68	Less than 2.00% of mass 69	0.75 (1.68)
69	Less than 99.90% of mass 198	44.50
70	Less than 2.00% of mass 69	0.22 (0.49)
127	40.00 - 60.00% of mass 198	47.65
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 30.00% of mass 198	20.46
365	Greater than 1.00% of mass 198	2.92
441	Present, but less than mass 443	10.02
442	40.00 - 100.00% of mass 198	69.27
443	17.00 - 23.00% of mass 442	13.06 (18.86)

Date : 28-APR-2008 10:36

Client ID: DFTPP 50ng Instrument: msdp.i

Sample Info: ;1500-76C-50;TUNE

Operator: LP

Column phase: Column diameter: 0.25

Data File: p042802.d
Spectrum: Avg. Scans 137-139 (5,25), Background Scan 134
Location of Maximum: 198.00
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	63	111.00	2399	181.00	610	256.00	4387
37.00	147	112.00	241	182.00	53	257.00	322
38.00	432	113.00	78	184.00	58	258.00	1556
39.00	1874	116.00	421	185.00	1002	259.00	214
41.00	4	117.00	5519	186.00	7240	265.00	667
42.00	109	118.00	480	187.00	2164	266.00	144
43.00	15	119.00	81	188.00	221	267.00	50
45.00	98	120.00	63	189.00	334	272.00	54
48.00	57	122.00	409	191.00	229	273.00	805
50.00	7069	123.00	734	192.00	524	274.00	2432
51.00	29256	124.00	383	193.00	716	275.00	11923
52.00	1418	125.00	263	194.00	164	276.00	1636
53.00	128	127.00	27752	196.00	1517	277.00	1119
55.00	92	128.00	2081	198.00	58256	278.00	192
56.00	768	129.00	10204	199.00	3763	283.00	113
57.00	1935	130.00	930	200.00	411	284.00	69
58.00	83	131.00	349	201.00	290	285.00	244
61.00	302	132.00	75	202.00	181	293.00	293
62.00	380	134.00	321	203.00	270	295.00	51
63.00	1144	135.00	968	204.00	1750	296.00	3546
64.00	121	136.00	333	205.00	2963	297.00	459
65.00	729	137.00	546	206.00	12876	303.00	433
67.00	50	138.00	52	207.00	1592	304.00	109
68.00	435	140.00	146	208.00	457	308.00	53
69.00	25920	141.00	1249	209.00	176	314.00	160
70.00	128	142.00	471	210.00	238	315.00	392
73.00	126	143.00	358	211.00	578	316.00	272
74.00	2548	144.00	43	215.00	88	321.00	114
75.00	3838	145.00	137	216.00	278	322.00	60
76.00	1395	146.00	228	217.00	2929	323.00	1278
77.00	30776	147.00	772	218.00	472	324.00	227
78.00	2010	148.00	1379	221.00	3361	327.00	179
79.00	1580	149.00	393	222.00	401	333.00	86
80.00	1306	151.00	109	223.00	791	334.00	695
81.00	1934	152.00	207	224.00	7851	335.00	164

Date : 28-APR-2008 10:36

Client ID: DFTPP 50ng Instrument: msdp.i

Sample Info: ;1500-76C-50;TUNE

Operator: LP

Column phase: Column diameter: 0.25

Data File: p042802.d
Spectrum: Avg. Scans 137-139 (5.25), Background Scan 134
Location of Maximum: 198.00
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	558	153.00	410	225.00	1821	341.00	130
83.00	385	154.00	344	226.00	165	346.00	355
85.00	426	155.00	722	227.00	2844	352.00	319
86.00	423	156.00	1249	228.00	361	353.00	280
87.00	414	157.00	300	229.00	577	354.00	411
88.00	11	158.00	328	230.00	58	365.00	1700
89.00	55	159.00	140	231.00	235	366.00	262
91.00	292	160.00	434	232.00	50	372.00	645
92.00	388	161.00	722	234.00	178	373.00	210
93.00	2856	162.00	163	235.00	169	383.00	166
94.00	277	165.00	475	236.00	155	390.00	105
96.00	178	166.00	421	237.00	254	391.00	55
97.00	63	167.00	2844	239.00	123	402.00	231
98.00	2042	168.00	1471	240.00	61	403.00	413
99.00	1925	169.00	302	241.00	79	404.00	176
100.00	208	170.00	75	242.00	325	421.00	303
101.00	1146	171.00	120	243.00	346	422.00	247
102.00	146	172.00	181	244.00	6031	423.00	2212
103.00	379	173.00	287	245.00	896	424.00	537
104.00	585	174.00	547	246.00	971	441.00	5836
105.00	510	175.00	1078	247.00	164	442.00	40360
106.00	234	176.00	267	249.00	157	443.00	7610
107.00	8213	177.00	414	251.00	52	444.00	708
108.00	1249	178.00	145	252.00	67		
109.00	260	179.00	2009	253.00	55		
110.00	15907	180.00	1351	255.00	28560		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: Erler & Kalinowski, Inc.
ATTENTION: Mr. Adam Abeles
FAX #: 650-552-9012
FROM: Sample Receiving
Workorder #: 0804495BR1
# of pages (Including Cover): 1

5/13/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Kyle Vagadori at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

Sample identification for sample 1040SG104 was not provided on the sample tag. Therefore the information on the Chain of Custody was used to process and report the sample.

Sample 1040SG104 was not stored at 4 +/-2 degrees C upon arrival at Air Toxics Ltd. The client was notified and the analysis proceeded.

Your prompt response is appreciated.

0804495

0304

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

CONSULTING ENGINEERS AND SCIENTISTS — 1870 Ogden Drive, Burlingame CA 94010 — FAX: 650-552-9012

Project Name: Presidio–Building 1040	**Project No.:** A70004.19
Location: 1040 Edie Road, San Francisco, California 94129	**Sampled By:** Adam Abeles and Jessica Fedde
Reporting: Electronic Format: Presidio EDD and EDF Hard Copy Format: PDF EPA Data Report Level: IV Report results to: aabeles@ekiconsult.com; zmailiga@ekiconsult.com; jdewitt@ekiconsult.com nporodnyakova@ekiconsult.com	**Laboratory:** Air Toxics, Ltd. 4376 Blue Ravine Road, Suite B Folsom, CA 95630-4719 (916) 985 1000 (916) 985-1020 FAX

EKI COC No. 041808

Revision: _____ (A, B, C, D, etc.) Revision Date:

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers and Preservative	ANALYSES REQUESTED: Method No. / Analyte Group — EPA TO-15 / VOCs	EPA TO-13a / SVOCs	PLACE ON HOLD	EXPECTED TURNAROUND TIME	Canister Pressure/Vacuum: Initial (in Hg)	Final (in Hg)	Receipt (in Hg)	Final (psi)	SUMMA ID # or Volume of Air drawn through cartridge (Liters)
104056101		4-18-08	1200	Air	1 6-Liter Summa	X			STD	20	3.5			1340
104056106		"	1209	"	"	X			"	29	3			4219
104056105		"	1224	"	"	X			"	30	4			1234
104056104		"	1222	"	"	X			"	29	4			1193
104056103		"	1221	"	"	X			"	30	4			5699
104056102		"	1307	"	"	X			"	30	27			1970
(AA) 1048 DUP-1-041908		"	1200	"	"	X			"	27	3.5			4243
08A 104056101		4-19-08	1422	"	1 XAD Cartridge		X		"					20.09 Liters
09A 104056106		"	1435	"	"		X		"					19.92 Liters
10A 104056105		"	1445	"	"		X		"					20.26 Liters
11A 104056103		"	1454	"	"		X		"					20.28 Liters
12A 104056104		"	1459	"	"		X		"					20.24 Liters
13A DUP-1-041908		"	1608	"	"		X		"					19.81 Liters

Special Instructions: Please report all vapor results in µg/m³.
Samples for SVOCs were collected at a later date due to incorrect sampling vessels.
Sample collection time reflects time collection started.

Summa 1970 (104056102) had high downside vacuum. Please notify EKI if insufficient gas exists for analysis.

	Relinquished by: (Signature/Affiliation)	Date	Time	Received by:
	[signature] EKI	4/21/08	1615	FED EX
				Received by: Monica Gregson ATL 4/22/08 830
				Received by:

6°C

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0804495BR1

Client

Mr. Adam Abeles
Erler & Kalinowski, Inc.
1870 Ogden Drive
Burlingame, CA 94010-5306

Phone

650-292-9100

Fax

650-552-9012

Sales Rep: JJM

Date Promised: 05/09/08
Date Completed: 5/9/08
Date Received: 4/22/08
PO#:
Project#: A70004.19 Presidio--Building 1040

Total $: $ 0.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Amount$
08A	1040SG101	Modified TO-13A	4/19/2008	$0.00
08AA	1040SG101 Lab Duplicate	Modified TO-13A	4/19/2008	$0.00
09A	1040SG106	Modified TO-13A	4/19/2008	$0.00
10A	1040SG105	Modified TO-13A	4/19/2008	$0.00
11A	1040SG103	Modified TO-13A	4/19/2008	$0.00
12A	1040SG104	Modified TO-13A	4/19/2008	$0.00
13A	Dup-1-041908	Modified TO-13A	4/19/2008	$0.00
14A	Lab Blank	Modified TO-13A	NA	$0.00
15A	LCS	Modified TO-13A	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Presidio Trust/11566

BILL TO: Mr. Adam Abeles
Erler & Kalinowski, Inc.
1870 Ogden Drive
Burlingame, CA 94010-5306

Analysis Code: TO-13A

TERMS: NET 30

Reporting Method: Modified TO-13A (PAHs)

Sample Discrepancy Report

Identification

Initiated By: mG **Date:** 4/24/08 **Discrepancy Type:** (circle all that apply) I. (II.) III.

Workorder(s) affected: 0804495 **Sample(s) affected:** 12A

Project ID: _____

I. Sample Receipt Discrepancies

Narration Not Required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☐ No brass cap on canister.
- ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.
- ☐ Sample date error/missing on COC but noted on sample tag (circle one).

Narration Required in Lab Narrative and Sample Confirmation:

- ☐ COC improperly relinquished / received.
- ☐ Sample tags / can numbers do not match the COC.
- ☐ Samples received at wrong temperature (up to 10°C); ice / blue ice (circle one) was present. A temp. blank was / was not present (circle one).
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☒ Other (describe below).

Describe the Discrepancy: ID tag blank

II. Sample Receipt/Screening Discrepancies requiring CSR notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out CSR must be notified within 24 hrs of initiation

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☒ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time (sulfur only) is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with significant (pooling) volume of H_2O in the Tedlar Bag.
- ☐ Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); Sample Can / cannot be analyzed (circle one).
- ☐ Tedlar Bag received leaking / flat (circle one). Sample Can / cannot (circle one) be analyzed.
- ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):
  ☐ canister failed leak check on two manifolds, ☐ canister valve was open, ☐ brass nut was loose. Sample Can / cannot be analyzed (circle one).
- ☐ Tedlar bag / canister received emitting a strong odor; Sample Can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Sample was received at ≥ 10°C.
- ☐ Other (describe below)

Initials: _____ (if not the original initiator) **Date:** _____ ☐ **CSR Notified** (see section below)

Describe the Discrepancy: "1040SG104" - missing

III. Lab Discrepancies requiring Team Leader/CSR notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out CSR must be notified within 24 hrs of initiation

- ☐ Tedlar Bag found to be leaking at the time of analysis; sample can / cannot (circle one) be analyzed.
- ☐ Tedlar Bag found to be flat at the time of analysis.
- ☐ Canister found to be leaking at the time of analysis.
- ☐ Tedlar Bag received at low volume; sample cannot be analyzed.
- ☐ Sulfur samples received with insufficient time to analyze prior to expiration.
- ☐ VOST tube saturated; bag dilution necessary.
- ☐ Sample loss due to instrument malfunction / broken glassware.
- ☐ Other (describe below).

Initials: _____ **Date:** _____ ☐ **CSR Notified**
(if not the original initiator) (see section below)

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

_____

Client Services Use Only

Client Services Notification

CSR notified: VV Date: 4/25/08

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

CSR Initials: _____ Date: _____

☑ Client notification required. See attached client contact / email, or comments below:

Client Notification:

Person notified: A. Abels Date: 4/25/08

Comments: Client explained which unused sample was 12A. It was the only XAD type tube.

☐ Lab notified Name: _____ Date: _____

Additional Notifications

CSR notified: _____ Date: _____

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy by documenting on cover page of Sample Receipt Confirmation and in Receiving Notes/Analytical Notes of Lab Narrative.

CSR Initials: _____ Date: _____

☐ Client notification required. See attached client contact / email, or comments below:

Client Notification:

Person notified: _____ Date: _____

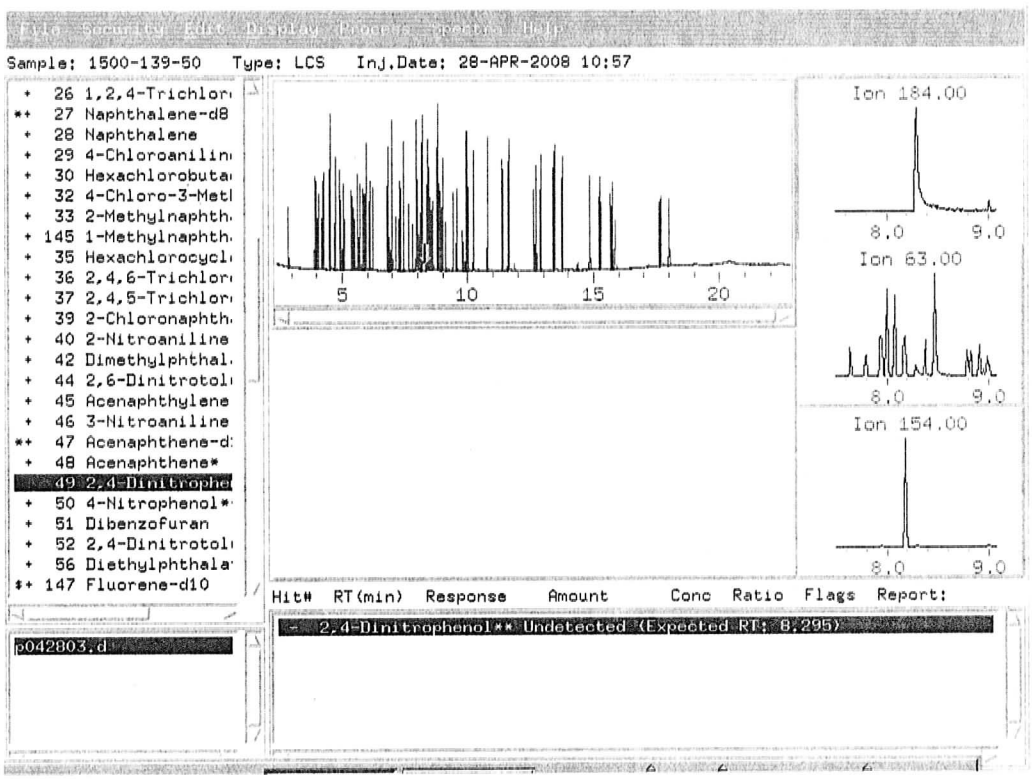
Comments: _____

_____

☐ Lab notified Name: _____ Date: _____

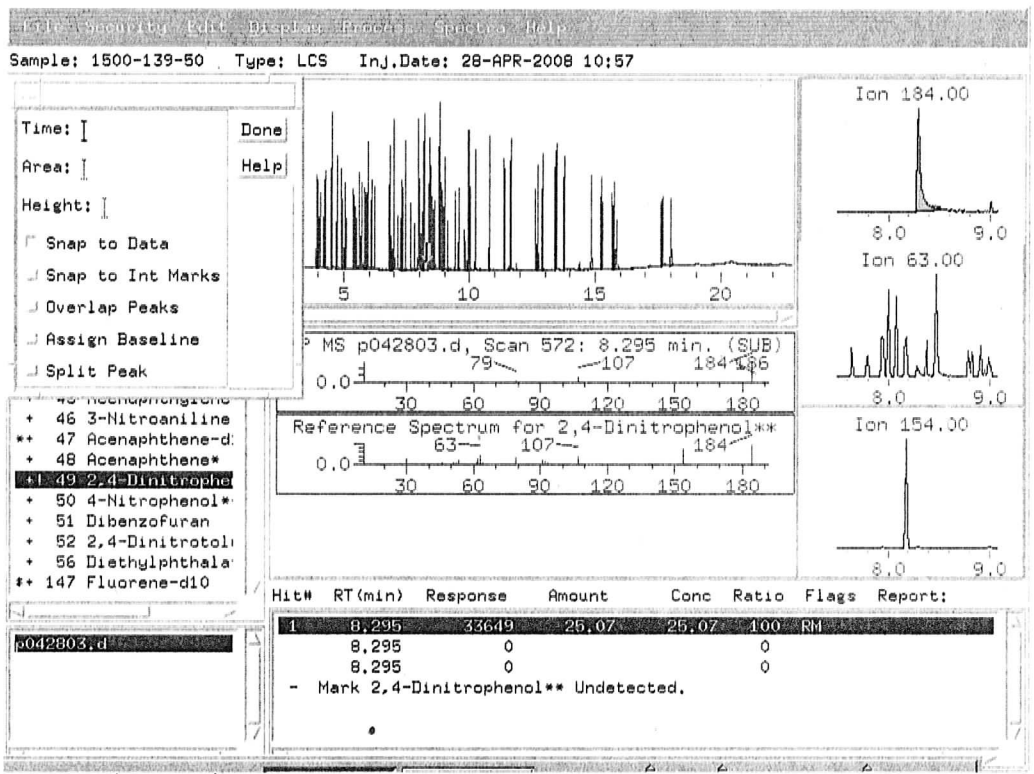
☐ **Additional notifications attached.**

Other Records



before peak missed

OP 4/28/08

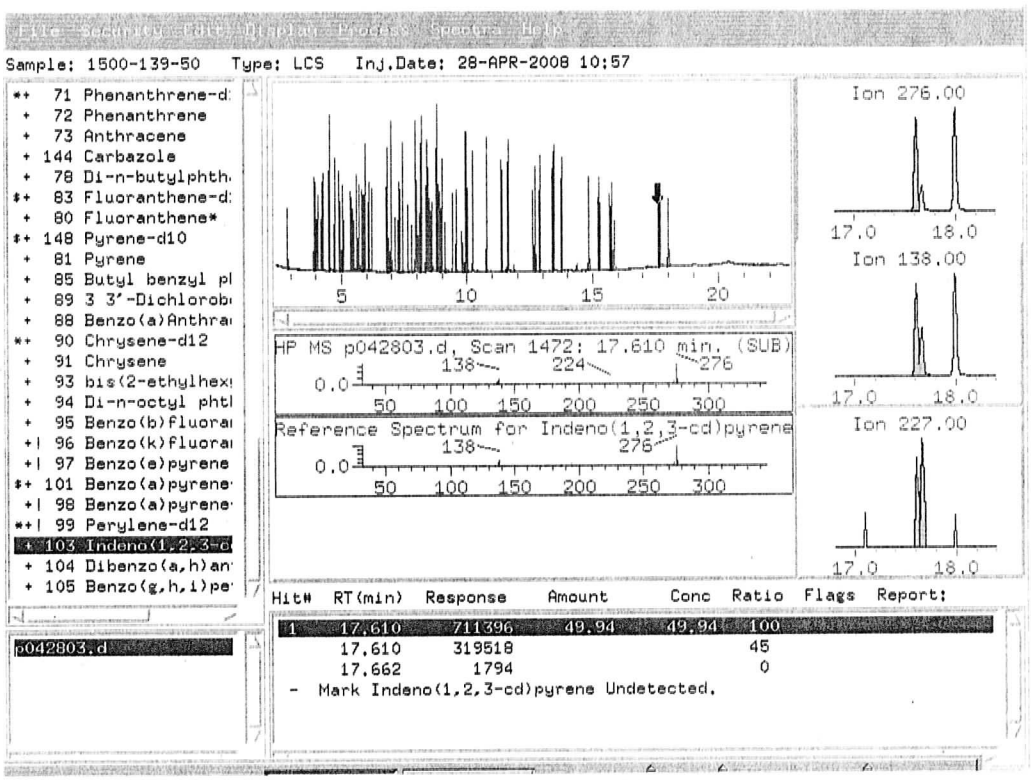


cp 4/28/08

~~bef~~ after integration of peak

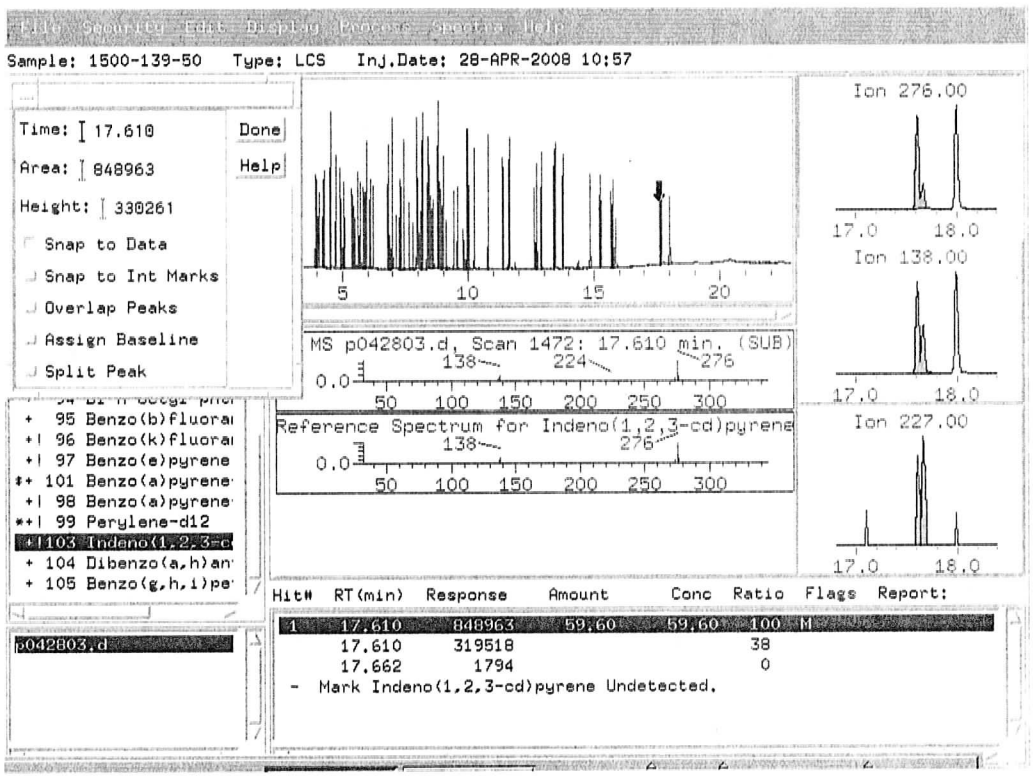
cp 4/28/08

LW 4/28/08



before peak is split

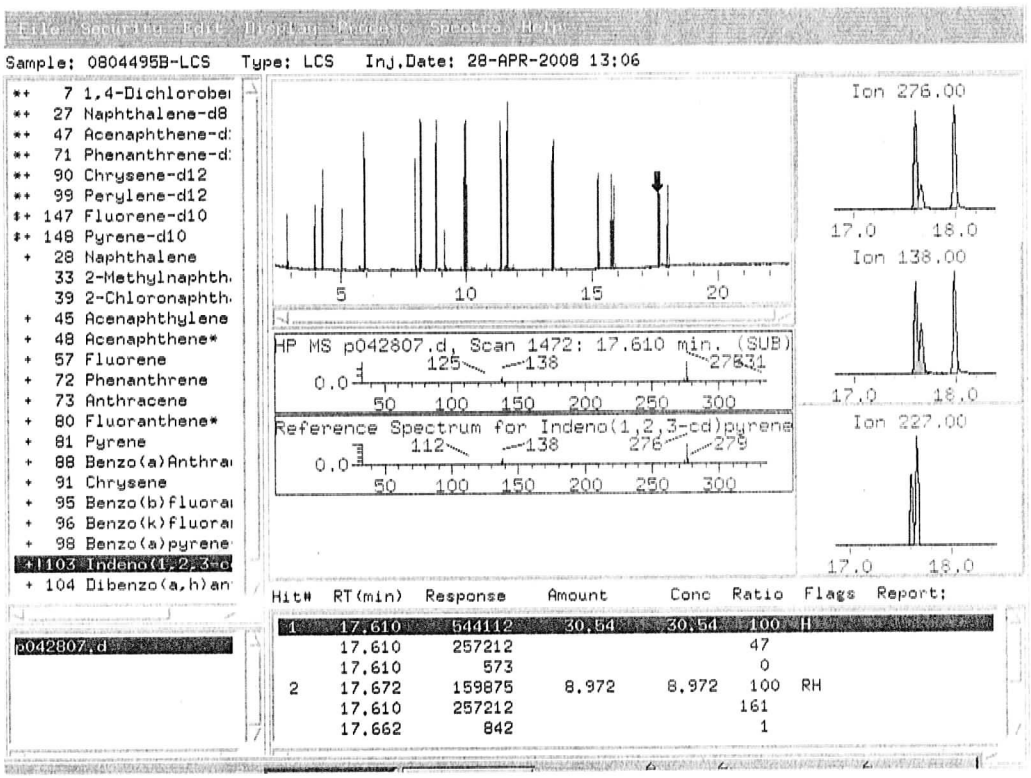
on 4/28/08



after integration of peak

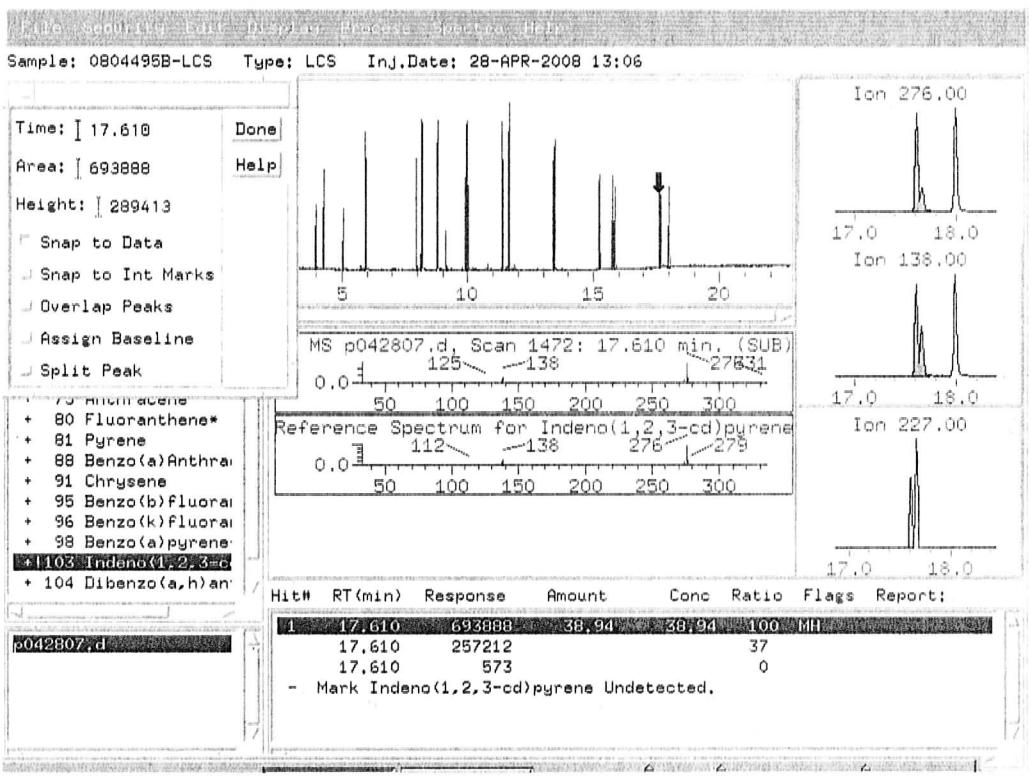
up 4/28/08

W 4/28/08



before peak is split

cp 4/28/08



after integration of peak

cp 4/28/08

Li 4/28/08

Air Toxics Ltd.

Performance Check for 8270C

Data file : /chem/msdp.i/p28apr08.b/p042802a.d
Lab Smp Id: DFTPP 50ng Client Smp ID: Breakdown
Inj Date : 28-APR-2008 10:36
Operator : LP Inst ID: msdp.i
Smp Info : ;1500-76C-50;TUNE
Misc Info :
Comment :
Method : /chem/msdp.i/p28apr08.b/BREAK.m
Meth Date : 10-Mar-2008 12:20 lpham Quant Type: ESTD
Cal Date : 20-OCT-2004 08:05 Cal File: p102001a.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	CONCENTRATIONS FINAL (ug)
M	1 Total DDT				1347589	51.1899	51.18990
	2 Pentachlorophenol	4.404	4.572	-0.168	534334	45.9125	45.91251
	3 Benzidine	6.661	6.838	-0.177	1516178	49.0531	49.05305
	4 p,p'-DDE	7.033	7.200	-0.167	29839		
	5 p,p'-DDD	7.561	7.749	-0.188	87581		
	6 p,p'-DDT	8.006	8.204	-0.198	1230169	51.1899	51.18990

DDT breakdown = $\frac{29839 + 87581}{1347589} \times 100\% = 8.7\%$.

UP 4/28/08

Compound Listing

Modified TO-13A (PAHs)

CAS Number	Compound	Detection Limit uG	Type
91-20-3	Naphthalene	1.0	
91-57-6	2-Methylnaphthalene	1.0	
91-58-7	2-Chloronaphthalene	1.0	
208-96-8	Acenaphthylene	1.0	
83-32-9	Acenaphthene	1.0	
86-73-7	Fluorene	1.0	
85-01-8	Phenanthrene	1.0	
120-12-7	Anthracene	1.0	
206-44-0	Fluoranthene	1.0	
129-00-0	Pyrene	1.0	
218-01-9	Chrysene	1.0	
56-55-3	Benzo(a)anthracene	1.0	
205-99-2	Benzo(b)fluoranthene	1.0	
207-08-9	Benzo(k)fluoranthene	1.0	
50-32-8	Benzo(a)pyrene	1.0	
193-39-5	Indeno(1,2,3-c,d)pyrene	1.0	
53-70-3	Dibenz(a,h)anthracene	1.0	
191-24-2	Benzo(g,h,i)perylene	1.0	
81103-79-9	Fluorene-d10		
1718-52-1	Pyrene-d10		

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0804495B

A	R	T	M	Q	
☐	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
	☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
	☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
☐	NA	☐	NA	☐	Corrective Action issued - #
☐	☐	☐	☑	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* ***CIRCLE (YES / (NO)***

☐	☑	☐	☑	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☐	☑	☐	☑	☐	Hold time is met for all samples
	☑	☐	☑	☐	Appropriate data qualifier flags are applied
✓	☑	☐	☑	☐	Manual integrations for samples and QC are properly documented
☐	☑	☐		☐	Samples analyzed within the project or method specific clock
	☑	☐			Retention times have been verified
☐	☑	☐		☐	Appropriate ICAL(s) included
	☑	☐	☑	☐	At least one result per sample is verified against the target quant sheets/raw data

☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	NA	☐			TICs resemble reference spectra
	☐	☐			TICs between duplicate samples are consistent
☐	☑	☐	☑		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☑		☑		Special units for all samples in the final report are correctly calculated
	☑	☐	NA		Manually entered results checked (i.e. special CCV compounds)
	☐	☐	☐		TPH/NMOC (verify calculations and correct reference compound used)
	☑				Chain of Custody scanned correctly
				☐	Verify sample id's vs. chain of custody
☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Tedlar Bag only
☐	☐				Final pressure consistent with canister size (6L vs. 1L)
☐	☐				Verify receipt pressures against logbook and Target
☐	☐				Verify canister ID #'s
	☐		NA		Extra printed copies are provided per client profile
	☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☐	NA	☐	Client LUMEN report reviewed for accuracy and completeness

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: Dup 08A.

Report in ug + ug/m³. per client request on COC ~~over the phone.~~ m 4/29/08

M/Q:

A (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
	R: [illegible] 4/29/08	m 4/29/08	
	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 08/29/05
Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable

Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15 (5&20 ppbv)

INVENTORY SHEET

Work Order #: 0804495A

	Page Nos. From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	76
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	77	84
b. Surrogate Recover Summary Form (If Applicable)	85	85
c. Internal Standard Summary Form (If Applicable)	86	86
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	87	362
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	363	382
i. Second Source LCS(Summary + Raw Data)	383	462
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	463	465
l. GC/MS Tune (Results + Raw Data)	466	483
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	484	485
b. Chain-of-Custody Records	486	487
c. Sample Log-In Sheet	488	488
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	489	490
5. Other Records (describe or list)		
a. Manual Spectral Defense	491	494
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	495	496
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	497	498
g. Variance Table	499	499
h. Canister Certification	--	--
i. Data Review Check Sheet	500	500

Comments:

Completed by:

Vera Belitsky	Vera Belitsky / Document Control	5/13/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0804495A

Work Order Summary

CLIENT:	Mr. Adam Abeles Erler & Kalinowski, Inc. 1870 Ogden Drive Burlingame, CA 94010-5306	**BILL TO:**	Mr. Adam Abeles Erler & Kalinowski, Inc. 1870 Ogden Drive Burlingame, CA 94010-5306
PHONE:	650-292-9100	**P.O. #**	
FAX:	650-552-9012	**PROJECT #**	A70004.19 Presidio--Building 1040
DATE RECEIVED:	04/22/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	05/05/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	1040SG101	Modified TO-15 (5&20 ppbv)	3.0"Hg	5 psi
02A	1040SG106	Modified TO-15 (5&20 ppbv)	1.5"Hg	5 psi
03A	1040SG105	Modified TO-15 (5&20 ppbv)	3.5"Hg	5 psi
04A	1040SG104	Modified TO-15 (5&20 ppbv)	2.5"Hg	5 psi
05A	1040SG103	Modified TO-15 (5&20 ppbv)	0.0"Hg	5 psi
06A	1040SG102	Modified TO-15 (5&20 ppbv)	26.5"Hg	5 psi
07A	Dup-1-041808	Modified TO-15 (5&20 ppbv)	3.0"Hg	5 psi
08A	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA
09A	CCV	Modified TO-15 (5&20 ppbv)	NA	NA
10A	LCS	Modified TO-15 (5&20 ppbv)	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 05/05/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
Erler & Kalinowski, Inc.
Workorder# 0804495A

Seven 6 Liter Summa Canister samples were received on April 22, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
1040SG101	0804495A-01A	4/18/2008	4/22/2008	NA	7	4/25/2008	NA	Good
1040SG106	0804495A-02A	4/18/2008	4/22/2008	NA	7	4/25/2008	NA	Good
1040SG105	0804495A-03A	4/18/2008	4/22/2008	NA	7	4/25/2008	NA	Good
1040SG104	0804495A-04A	4/18/2008	4/22/2008	NA	7	4/25/2008	NA	Good
1040SG103	0804495A-05A	4/18/2008	4/22/2008	NA	7	4/25/2008	NA	Good
1040SG102	0804495A-06A	4/18/2008	4/22/2008	NA	7	4/25/2008	NA	Good
Dup-1-041808	0804495A-07A	4/18/2008	4/22/2008	NA	7	4/25/2008	NA	Good
Lab Blank	0804495A-08A	NA	NA	NA	NA	4/25/2008	NA	Good
CCV	0804495A-09A	NA	NA	NA	NA	4/25/2008	NA	Good
LCS	0804495A-10A	NA	NA	NA	NA	4/25/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: 1040SG101

Lab ID#: 0804495A-01A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG101

Lab ID#: 0804495A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042524**	**Date of Collection:**	**4/18/08**
Dil. Factor:	**1.49**	**Date of Analysis:**	**4/25/08 02:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	7.4	Not Detected	37	Not Detected
Freon 114	7.4	Not Detected	52	Not Detected
Chloromethane	30	Not Detected	62	Not Detected
Vinyl Chloride	7.4	Not Detected	19	Not Detected
1,3-Butadiene	7.4	Not Detected	16	Not Detected
Bromomethane	7.4	Not Detected	29	Not Detected
Chloroethane	7.4	Not Detected	20	Not Detected
Freon 11	7.4	Not Detected	42	Not Detected
Ethanol	30	Not Detected	56	Not Detected
Freon 113	7.4	Not Detected	57	Not Detected
1,1-Dichloroethene	7.4	Not Detected	30	Not Detected
Acetone	30	Not Detected	71	Not Detected
2-Propanol	30	Not Detected	73	Not Detected
Carbon Disulfide	7.4	Not Detected	23	Not Detected
3-Chloropropene	30	Not Detected	93	Not Detected
Methylene Chloride	7.4	Not Detected	26	Not Detected
Methyl tert-butyl ether	7.4	Not Detected	27	Not Detected
trans-1,2-Dichloroethene	7.4	Not Detected	30	Not Detected
Hexane	7.4	Not Detected	26	Not Detected
1,1-Dichloroethane	7.4	Not Detected	30	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.4	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	7.4	Not Detected	30	Not Detected
Tetrahydrofuran	7.4	Not Detected	22	Not Detected
Chloroform	7.4	Not Detected	36	Not Detected
1,1,1-Trichloroethane	7.4	Not Detected	41	Not Detected
Cyclohexane	7.4	Not Detected	26	Not Detected
Carbon Tetrachloride	7.4	Not Detected	47	Not Detected
2,2,4-Trimethylpentane	7.4	Not Detected	35	Not Detected
Benzene	7.4	Not Detected	24	Not Detected
1,2-Dichloroethane	7.4	Not Detected	30	Not Detected
Heptane	7.4	Not Detected	30	Not Detected
Trichloroethene	7.4	Not Detected	40	Not Detected
1,2-Dichloropropane	7.4	Not Detected	34	Not Detected
1,4-Dioxane	30	Not Detected	110	Not Detected
Bromodichloromethane	7.4	Not Detected	50	Not Detected
cis-1,3-Dichloropropene	7.4	Not Detected	34	Not Detected
4-Methyl-2-pentanone	7.4	Not Detected	30	Not Detected
Toluene	7.4	Not Detected	28	Not Detected
trans-1,3-Dichloropropene	7.4	Not Detected	34	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG101

Lab ID#: 0804495A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042524**	**Date of Collection: 4/18/08**	
Dil. Factor:	**1.49**	**Date of Analysis: 4/25/08 02:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	7.4	Not Detected	41	Not Detected
Tetrachloroethene	7.4	Not Detected	50	Not Detected
2-Hexanone	30	Not Detected	120	Not Detected
Dibromochloromethane	7.4	Not Detected	63	Not Detected
1,2-Dibromoethane (EDB)	7.4	Not Detected	57	Not Detected
Chlorobenzene	7.4	Not Detected	34	Not Detected
Ethyl Benzene	7.4	Not Detected	32	Not Detected
m,p-Xylene	7.4	Not Detected	32	Not Detected
o-Xylene	7.4	Not Detected	32	Not Detected
Styrene	7.4	Not Detected	32	Not Detected
Bromoform	7.4	Not Detected	77	Not Detected
Cumene	7.4	Not Detected	37	Not Detected
1,1,2,2-Tetrachloroethane	7.4	Not Detected	51	Not Detected
Propylbenzene	7.4	Not Detected	37	Not Detected
4-Ethyltoluene	7.4	Not Detected	37	Not Detected
1,3,5-Trimethylbenzene	7.4	Not Detected	37	Not Detected
1,2,4-Trimethylbenzene	7.4	Not Detected	37	Not Detected
1,3-Dichlorobenzene	7.4	Not Detected	45	Not Detected
1,4-Dichlorobenzene	7.4	Not Detected	45	Not Detected
alpha-Chlorotoluene	7.4	Not Detected	38	Not Detected
1,2-Dichlorobenzene	7.4	Not Detected	45	Not Detected
1,2,4-Trichlorobenzene	30	Not Detected	220	Not Detected
Hexachlorobutadiene	30	Not Detected	320	Not Detected
1,1-Difluoroethane	30	Not Detected	80	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042524.d
Lab Smp Id: 0804495A-01A
Inj Date : 25-APR-2008 14:27
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,5794
Misc Info : 3.0" Hg -> 5psi, Erler
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 05-May-2008 12:16 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1
Dil Factor: 1.49000
Integrator: HP RTE Compound Sublist: TO15+152a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.919	7.921 (1.000)	130	267271	400.000		80.00- 120.00	100.00
7.919	7.921 (1.000)	128	221874			48.28- 108.28	83.01
7.919	7.921 (1.000)	49	297179			89.90- 149.90	111.19
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.743	9.746 (1.000)	114	1256380	400.000		80.00- 120.00	100.00
9.743	9.746 (1.000)	88	235843			0.00- 48.00	18.77
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.859	14.861 (1.000)	117	1111627	400.000		80.00- 120.00	100.00
14.859	14.861 (1.000)	82	708446			0.00- 30.00	63.73
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.969	8.972 (1.133)	65	585522	449.810	449.81	80.00- 120.00	100.00
8.997	8.972 (1.136)	67	286359			0.00- 30.00	48.91
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.536	12.511 (1.287)	98	1331911	425.152	425.15	80.00- 120.00	100.00
12.508	12.511 (1.284)	70	163764			0.00- 30.00	12.30

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.536	12.511 (1.287)	100	809769			0.00- 30.00	60.80
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.435	16.437 (1.106)	174	706917	398.981	398.98	80.00- 120.00	100.00
16.435	16.437 (1.106)	95	1017544			117.94- 177.94	143.94
16.435	16.437 (1.106)	176	673268			67.07- 127.07	95.24

Report Date: 05-May-2008 12:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042524.d
Lab Smp Id: 0804495A-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 3.0" Hg -> 5psi, Erler

Calibration Date: 25-APR-2008
Calibration Time: 01:24
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	426794	256076	597512	267271	-37.38
92 1,4-Difluorobenze	1936987	1162192	2711782	1256380	-35.14
125 Chlorobenzene-d5	1655878	993527	2318229	1111627	-32.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	-0.03
92 1,4-Difluorobenze	9.75	9.42	10.08	9.74	-0.02
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 05-May-2008 12:25

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804495A-01A
Level: LOW Operator: ac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15+152a.sub
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 3.0" Hg -> 5psi, Erler

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	400.00	449.81	112.45	70-130
$ 107 Toluene-d8	400.00	425.15	106.29	70-130
$ 138 Bromofluorobenzene	400.00	398.98	99.75	70-130

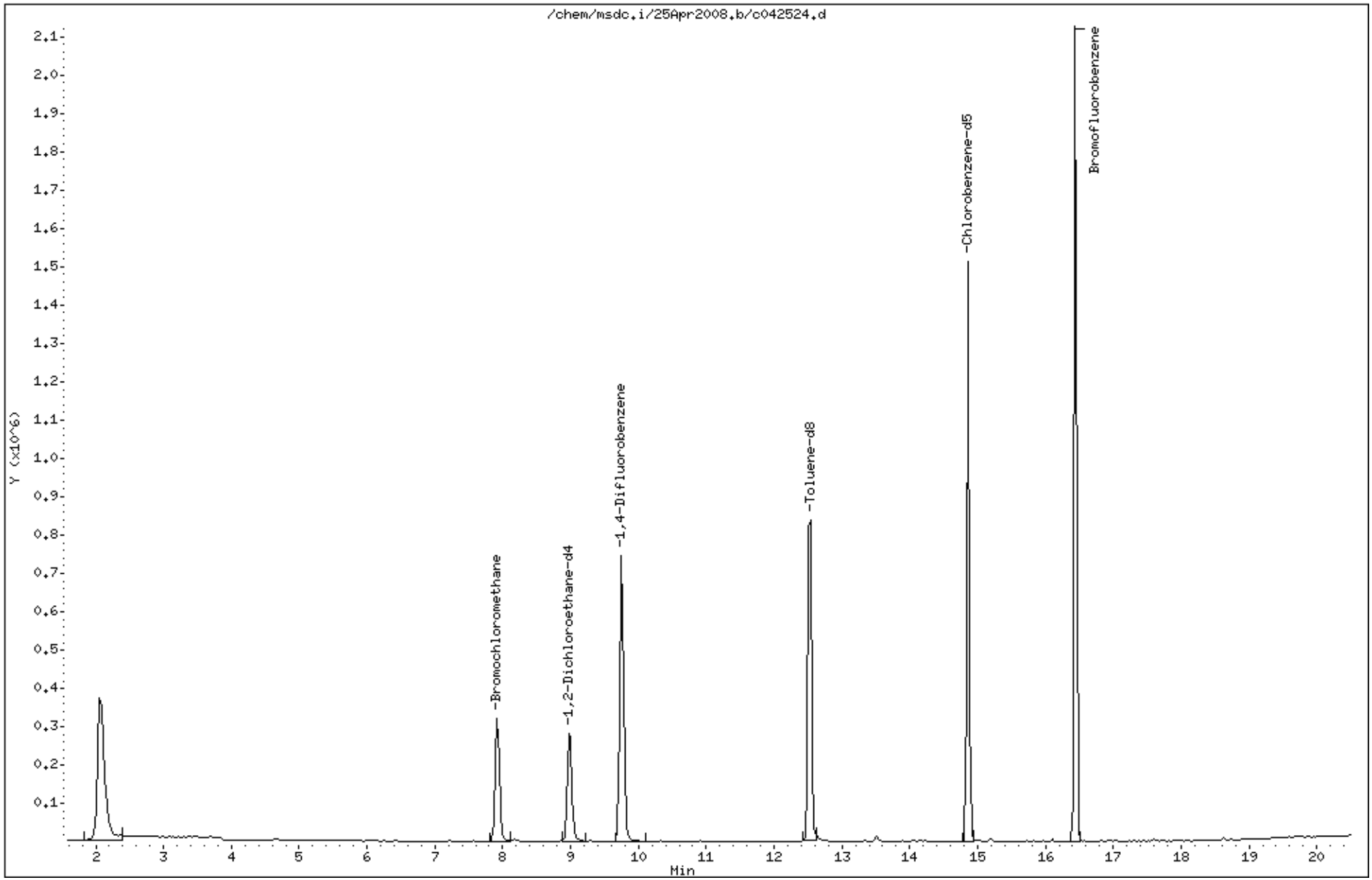
0013

Data File: /chem/msdc.i/25Apr2008.b/c042524.d
Date : 25-APR-2008 14:27
Client ID:
Sample Info: 50mL,5794

Instrument: msdc.i

Operator: ac
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: 1040SG106

Lab ID#: 0804495A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	7.0	12	26	44

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG106

Lab ID#: 0804495A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042525**	**Date of Collection:**	**4/18/08**
Dil. Factor:	**1.41**	**Date of Analysis:**	**4/25/08 02:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	7.0	Not Detected	35	Not Detected
Freon 114	7.0	Not Detected	49	Not Detected
Chloromethane	28	Not Detected	58	Not Detected
Vinyl Chloride	7.0	Not Detected	18	Not Detected
1,3-Butadiene	7.0	Not Detected	16	Not Detected
Bromomethane	7.0	Not Detected	27	Not Detected
Chloroethane	7.0	Not Detected	19	Not Detected
Freon 11	7.0	Not Detected	40	Not Detected
Ethanol	28	Not Detected	53	Not Detected
Freon 113	7.0	Not Detected	54	Not Detected
1,1-Dichloroethene	7.0	Not Detected	28	Not Detected
Acetone	28	Not Detected	67	Not Detected
2-Propanol	28	Not Detected	69	Not Detected
Carbon Disulfide	7.0	Not Detected	22	Not Detected
3-Chloropropene	28	Not Detected	88	Not Detected
Methylene Chloride	7.0	Not Detected	24	Not Detected
Methyl tert-butyl ether	7.0	Not Detected	25	Not Detected
trans-1,2-Dichloroethene	7.0	Not Detected	28	Not Detected
Hexane	7.0	Not Detected	25	Not Detected
1,1-Dichloroethane	7.0	Not Detected	28	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.0	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	7.0	Not Detected	28	Not Detected
Tetrahydrofuran	7.0	Not Detected	21	Not Detected
Chloroform	7.0	Not Detected	34	Not Detected
1,1,1-Trichloroethane	7.0	Not Detected	38	Not Detected
Cyclohexane	7.0	Not Detected	24	Not Detected
Carbon Tetrachloride	7.0	Not Detected	44	Not Detected
2,2,4-Trimethylpentane	7.0	Not Detected	33	Not Detected
Benzene	7.0	Not Detected	22	Not Detected
1,2-Dichloroethane	7.0	Not Detected	28	Not Detected
Heptane	7.0	Not Detected	29	Not Detected
Trichloroethene	7.0	Not Detected	38	Not Detected
1,2-Dichloropropane	7.0	Not Detected	32	Not Detected
1,4-Dioxane	28	Not Detected	100	Not Detected
Bromodichloromethane	7.0	Not Detected	47	Not Detected
cis-1,3-Dichloropropene	7.0	Not Detected	32	Not Detected
4-Methyl-2-pentanone	7.0	Not Detected	29	Not Detected
Toluene	7.0	12	26	44
trans-1,3-Dichloropropene	7.0	Not Detected	32	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG106

Lab ID#: 0804495A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042525**	**Date of Collection: 4/18/08**	
Dil. Factor:	**1.41**	**Date of Analysis: 4/25/08 02:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	7.0	Not Detected	38	Not Detected
Tetrachloroethene	7.0	Not Detected	48	Not Detected
2-Hexanone	28	Not Detected	120	Not Detected
Dibromochloromethane	7.0	Not Detected	60	Not Detected
1,2-Dibromoethane (EDB)	7.0	Not Detected	54	Not Detected
Chlorobenzene	7.0	Not Detected	32	Not Detected
Ethyl Benzene	7.0	Not Detected	31	Not Detected
m,p-Xylene	7.0	Not Detected	31	Not Detected
o-Xylene	7.0	Not Detected	31	Not Detected
Styrene	7.0	Not Detected	30	Not Detected
Bromoform	7.0	Not Detected	73	Not Detected
Cumene	7.0	Not Detected	35	Not Detected
1,1,2,2-Tetrachloroethane	7.0	Not Detected	48	Not Detected
Propylbenzene	7.0	Not Detected	35	Not Detected
4-Ethyltoluene	7.0	Not Detected	35	Not Detected
1,3,5-Trimethylbenzene	7.0	Not Detected	35	Not Detected
1,2,4-Trimethylbenzene	7.0	Not Detected	35	Not Detected
1,3-Dichlorobenzene	7.0	Not Detected	42	Not Detected
1,4-Dichlorobenzene	7.0	Not Detected	42	Not Detected
alpha-Chlorotoluene	7.0	Not Detected	36	Not Detected
1,2-Dichlorobenzene	7.0	Not Detected	42	Not Detected
1,2,4-Trichlorobenzene	28	Not Detected	210	Not Detected
Hexachlorobutadiene	28	Not Detected	300	Not Detected
1,1-Difluoroethane	28	Not Detected	76	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042525.d
Lab Smp Id: 0804495A-02A
Inj Date : 25-APR-2008 14:58
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,4129
Misc Info : 1.5" Hg -> 5psi, Erler
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 05-May-2008 12:16 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1
Dil Factor: 1.41000
Integrator: HP RTE Compound Sublist: TO15+152a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.918	7.921 (1.000)	130	279881	400.000		80.00- 120.00	100.00
7.918	7.921 (1.000)	128	221403			48.28- 108.28	79.11
7.918	7.921 (1.000)	49	319231			89.90- 149.90	114.06
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.743	9.746 (1.000)	114	1296874	400.000		80.00- 120.00	100.00
9.743	9.746 (1.000)	88	235232			0.00- 48.00	18.14
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.859	14.861 (1.000)	117	1087177	400.000		80.00- 120.00	100.00
14.859	14.861 (1.000)	82	633830			0.00- 30.00	58.30
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.997	8.972 (1.136)	65	606734	445.105	445.10	80.00- 120.00	100.00
8.997	8.972 (1.136)	67	280481			0.00- 30.00	46.23
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.536	12.511 (1.287)	98	1244457	384.833	384.83	80.00- 120.00	100.00
12.508	12.511 (1.284)	70	153610			0.00- 30.00	12.34

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.536	12.511 (1.287)	100	806838			0.00- 30.00	64.83
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.435	16.437 (1.106)	174	694188	400.608	400.61	80.00- 120.00	100.00
16.435	16.437 (1.106)	95	1009174			117.94- 177.94	145.37
16.435	16.437 (1.106)	176	584392			67.07- 127.07	84.18
108 Toluene					CAS #: 108-88-3		
12.647	12.649 (1.298)	91	43696	8.33012	11.745	80.00- 120.00	100.00
12.647	12.649 (1.298)	92	24694			27.71- 87.71	56.51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042525.d
Lab Smp Id: 0804495A-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 1.5" Hg -> 5psi, Erler

Calibration Date: 25-APR-2008
Calibration Time: 01:24
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	426794	256076	597512	279881	-34.42
92 1,4-Difluorobenze	1936987	1162192	2711782	1296874	-33.05
125 Chlorobenzene-d5	1655878	993527	2318229	1087177	-34.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	-0.03
92 1,4-Difluorobenze	9.75	9.42	10.08	9.74	-0.02
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804495A-02A
Level: LOW Operator: ac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15+152a.sub
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 1.5" Hg -> 5psi, Erler

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	400.00	445.10	111.28	70-130
$ 107 Toluene-d8	400.00	384.83	96.21	70-130
$ 138 Bromofluorobenzene	400.00	400.61	100.15	70-130

Data File: /chem/msdc.i/25Apr2008.b/c042525.d

Page 1

Date : 25-APR-2008 14:58

Client ID:

Instrument: msdc.i

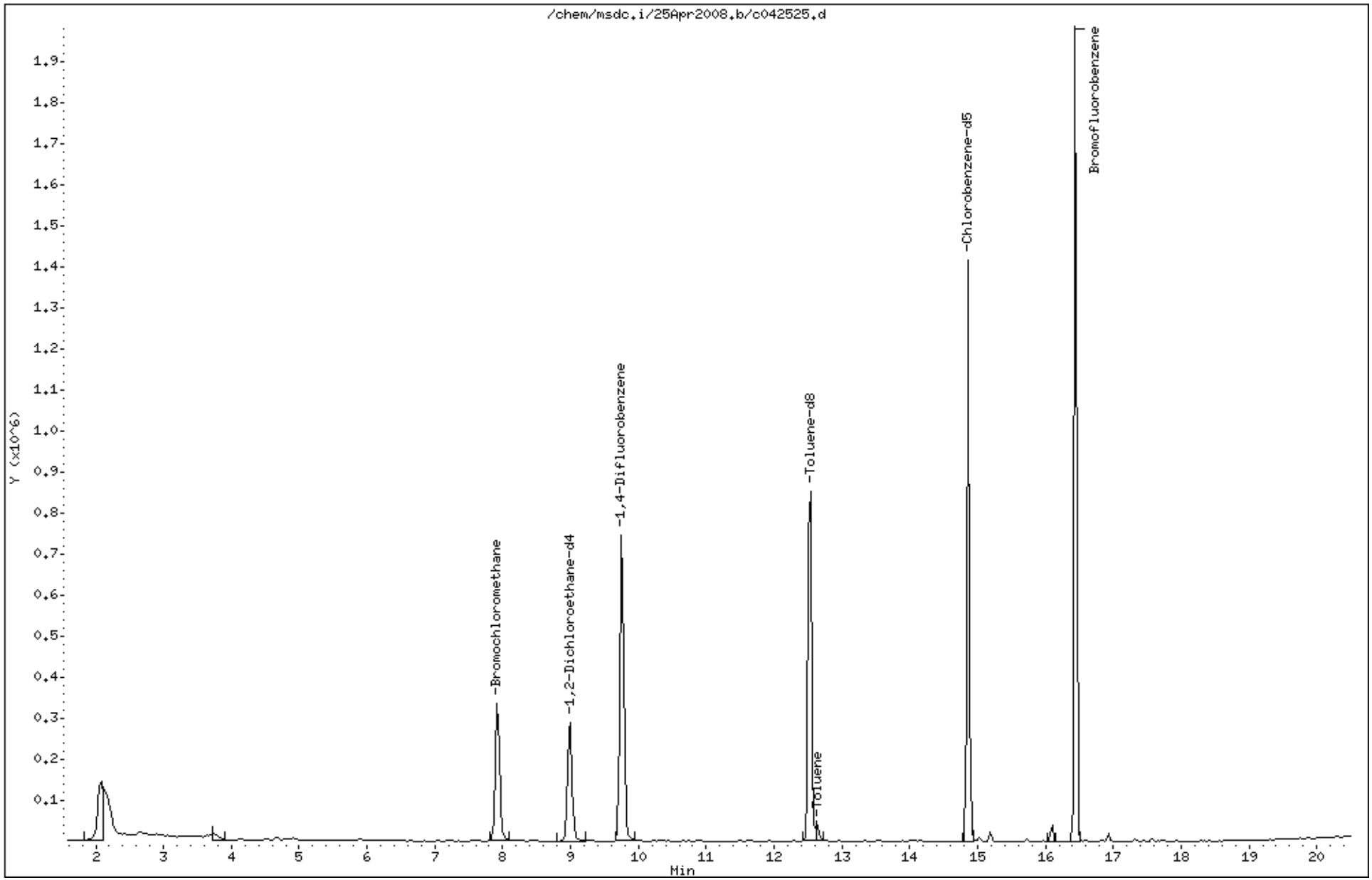
Sample Info: 50mL,4129

Operator: ac

Column phase: RTx-624

Column diameter: 0.53

0021



Data File: /chem/msdc.i/25Apr2008.b/c042525.d

Date : 25-APR-2008 14:58

Client ID:

Instrument: msdc.i

Sample Info: 50mL,4129

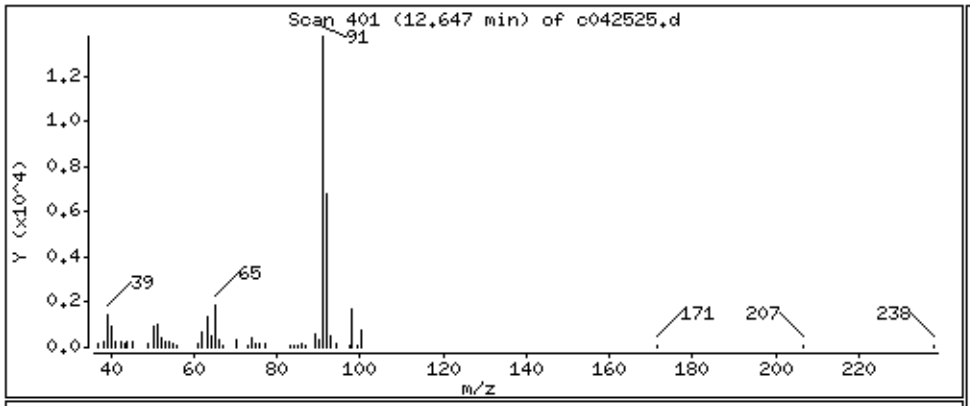
Operator: ac

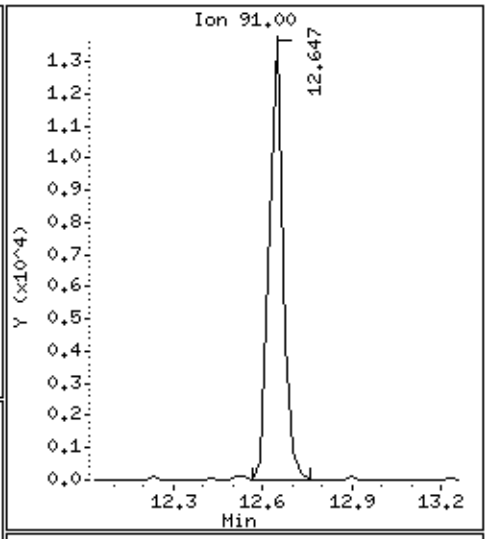
Column phase: RTx-624

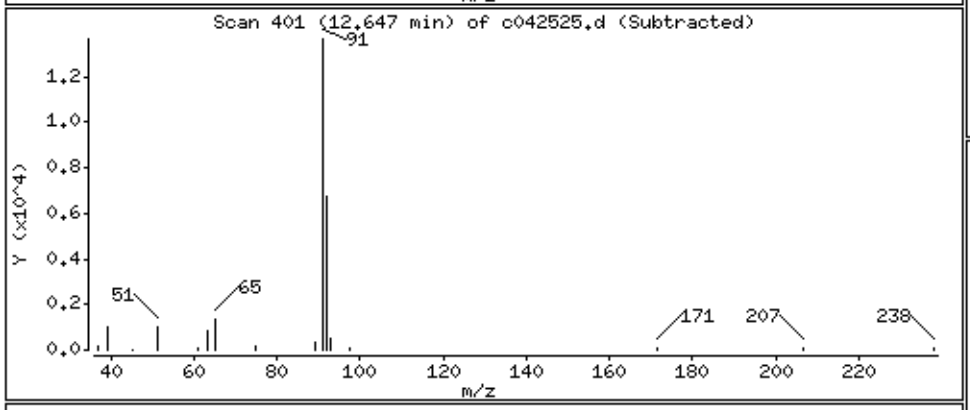
Column diameter: 0.53

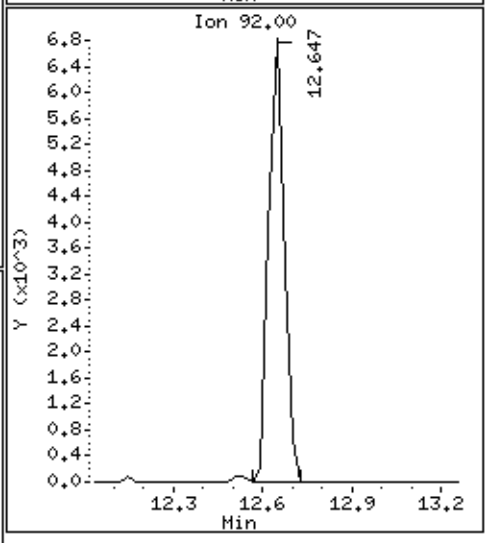
108 Toluene

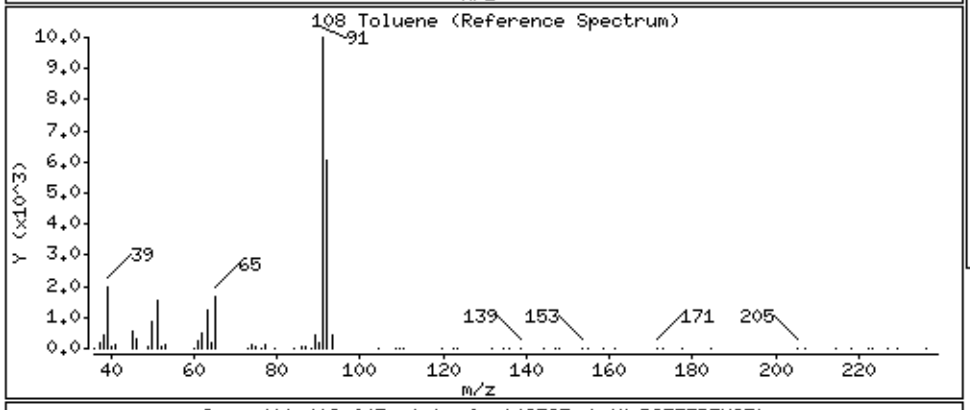
Concentration: 11.745 PPBV

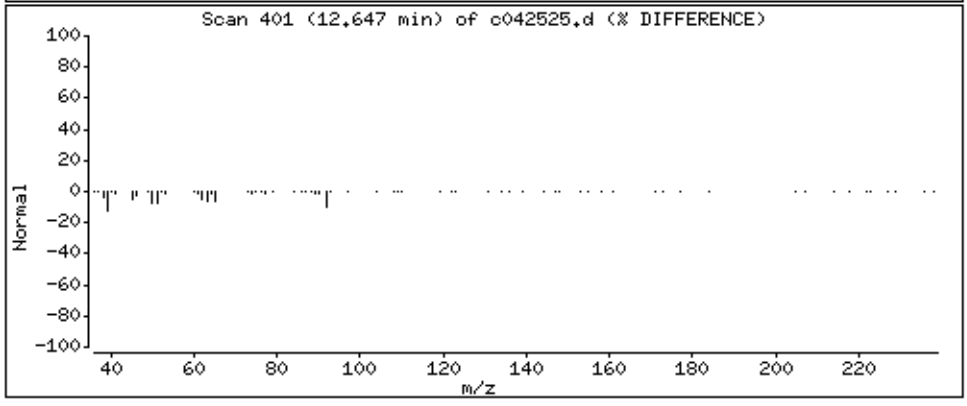












AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: 1040SG105

Lab ID#: 0804495A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 11	7.6	9.6	43	54
Toluene	7.6	18	29	67
m,p-Xylene	7.6	14	33	62

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG105

Lab ID#: 0804495A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042526**	**Date of Collection:**	**4/18/08**
Dil. Factor:	**1.52**	**Date of Analysis:**	**4/25/08 03:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	7.6	Not Detected	38	Not Detected
Freon 114	7.6	Not Detected	53	Not Detected
Chloromethane	30	Not Detected	63	Not Detected
Vinyl Chloride	7.6	Not Detected	19	Not Detected
1,3-Butadiene	7.6	Not Detected	17	Not Detected
Bromomethane	7.6	Not Detected	30	Not Detected
Chloroethane	7.6	Not Detected	20	Not Detected
Freon 11	7.6	9.6	43	54
Ethanol	30	Not Detected	57	Not Detected
Freon 113	7.6	Not Detected	58	Not Detected
1,1-Dichloroethene	7.6	Not Detected	30	Not Detected
Acetone	30	Not Detected	72	Not Detected
2-Propanol	30	Not Detected	75	Not Detected
Carbon Disulfide	7.6	Not Detected	24	Not Detected
3-Chloropropene	30	Not Detected	95	Not Detected
Methylene Chloride	7.6	Not Detected	26	Not Detected
Methyl tert-butyl ether	7.6	Not Detected	27	Not Detected
trans-1,2-Dichloroethene	7.6	Not Detected	30	Not Detected
Hexane	7.6	Not Detected	27	Not Detected
1,1-Dichloroethane	7.6	Not Detected	31	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.6	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	7.6	Not Detected	30	Not Detected
Tetrahydrofuran	7.6	Not Detected	22	Not Detected
Chloroform	7.6	Not Detected	37	Not Detected
1,1,1-Trichloroethane	7.6	Not Detected	41	Not Detected
Cyclohexane	7.6	Not Detected	26	Not Detected
Carbon Tetrachloride	7.6	Not Detected	48	Not Detected
2,2,4-Trimethylpentane	7.6	Not Detected	36	Not Detected
Benzene	7.6	Not Detected	24	Not Detected
1,2-Dichloroethane	7.6	Not Detected	31	Not Detected
Heptane	7.6	Not Detected	31	Not Detected
Trichloroethene	7.6	Not Detected	41	Not Detected
1,2-Dichloropropane	7.6	Not Detected	35	Not Detected
1,4-Dioxane	30	Not Detected	110	Not Detected
Bromodichloromethane	7.6	Not Detected	51	Not Detected
cis-1,3-Dichloropropene	7.6	Not Detected	34	Not Detected
4-Methyl-2-pentanone	7.6	Not Detected	31	Not Detected
Toluene	7.6	18	29	67
trans-1,3-Dichloropropene	7.6	Not Detected	34	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG105

Lab ID#: 0804495A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042526**	**Date of Collection: 4/18/08**	
Dil. Factor:	**1.52**	**Date of Analysis: 4/25/08 03:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	7.6	Not Detected	41	Not Detected
Tetrachloroethene	7.6	Not Detected	52	Not Detected
2-Hexanone	30	Not Detected	120	Not Detected
Dibromochloromethane	7.6	Not Detected	65	Not Detected
1,2-Dibromoethane (EDB)	7.6	Not Detected	58	Not Detected
Chlorobenzene	7.6	Not Detected	35	Not Detected
Ethyl Benzene	7.6	Not Detected	33	Not Detected
m,p-Xylene	7.6	14	33	62
o-Xylene	7.6	Not Detected	33	Not Detected
Styrene	7.6	Not Detected	32	Not Detected
Bromoform	7.6	Not Detected	78	Not Detected
Cumene	7.6	Not Detected	37	Not Detected
1,1,2,2-Tetrachloroethane	7.6	Not Detected	52	Not Detected
Propylbenzene	7.6	Not Detected	37	Not Detected
4-Ethyltoluene	7.6	Not Detected	37	Not Detected
1,3,5-Trimethylbenzene	7.6	Not Detected	37	Not Detected
1,2,4-Trimethylbenzene	7.6	Not Detected	37	Not Detected
1,3-Dichlorobenzene	7.6	Not Detected	46	Not Detected
1,4-Dichlorobenzene	7.6	Not Detected	46	Not Detected
alpha-Chlorotoluene	7.6	Not Detected	39	Not Detected
1,2-Dichlorobenzene	7.6	Not Detected	46	Not Detected
1,2,4-Trichlorobenzene	30	Not Detected	220	Not Detected
Hexachlorobutadiene	30	Not Detected	320	Not Detected
1,1-Difluoroethane	30	Not Detected	82	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042526.d
Lab Smp Id: 0804495A-03A
Inj Date : 25-APR-2008 15:40
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,5612
Misc Info : 3.5" Hg -> 5psi, Erler
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 05-May-2008 12:16 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1
Dil Factor: 1.52000
Integrator: HP RTE Compound Sublist: TO15+152a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.919	7.921 (1.000)	130	277512	400.000		80.00- 120.00	100.00
7.919	7.921 (1.000)	128	213538			48.28- 108.28	76.95
7.919	7.921 (1.000)	49	321179			89.90- 149.90	115.73
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.771	9.746 (1.000)	114	1264220	400.000		80.00- 120.00	100.00
9.743	9.746 (1.000)	88	235912			0.00- 48.00	18.66
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.859	14.861 (1.000)	117	1089307	400.000		80.00- 120.00	100.00
14.859	14.861 (1.000)	82	661443			0.00- 30.00	60.72
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.997	8.972 (1.136)	65	604392	447.172	447.17	80.00- 120.00	100.00
8.997	8.972 (1.136)	67	271941			0.00- 30.00	44.99
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.536	12.511 (1.283)	98	1301477	412.861	412.86	80.00- 120.00	100.00
12.536	12.511 (1.283)	70	150195			0.00- 30.00	11.54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.536	12.511 (1.283)	100	742254			0.00- 30.00	57.03
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.462	16.437 (1.108)	174	691665	398.372	398.37	80.00- 120.00	100.00
16.435	16.437 (1.106)	95	1053496			117.94- 177.94	152.31
16.462	16.437 (1.108)	176	668243			67.07- 127.07	96.61
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.688	3.635 (0.466)	101	25951	6.31798	9.603	80.00- 120.00	100.00
3.661	3.635 (0.462)	103	8127			33.94- 93.94	31.32
108 Toluene					CAS #: 108-88-3		
12.647	12.649 (1.294)	91	60092	11.7517	17.863	80.00- 120.00	100.00
12.647	12.649 (1.294)	92	34279			27.71- 87.71	57.05
130 m,p-Xylene					CAS #: 108-38-3		
15.190	15.193 (1.022)	106	25248	9.32275	14.170	80.00- 120.00	100.00
15.190	15.193 (1.022)	91	54745			0.00- 30.00	216.83

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042526.d
Lab Smp Id: 0804495A-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 3.5" Hg -> 5psi, Erler

Calibration Date: 25-APR-2008
Calibration Time: 01:24
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	426794	256076	597512	277512	-34.98
92 1,4-Difluorobenze	1936987	1162192	2711782	1264220	-34.73
125 Chlorobenzene-d5	1655878	993527	2318229	1089307	-34.22

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	-0.03
92 1,4-Difluorobenze	9.75	9.42	10.08	9.77	0.26
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 05-May-2008 12:29

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804495A-03A
Level: LOW Operator: ac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15+152a.sub
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 3.5" Hg -> 5psi, Erler

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	400.00	447.17	111.79	70-130
$ 107 Toluene-d8	400.00	412.86	103.22	70-130
$ 138 Bromofluorobenzene	400.00	398.37	99.59	70-130

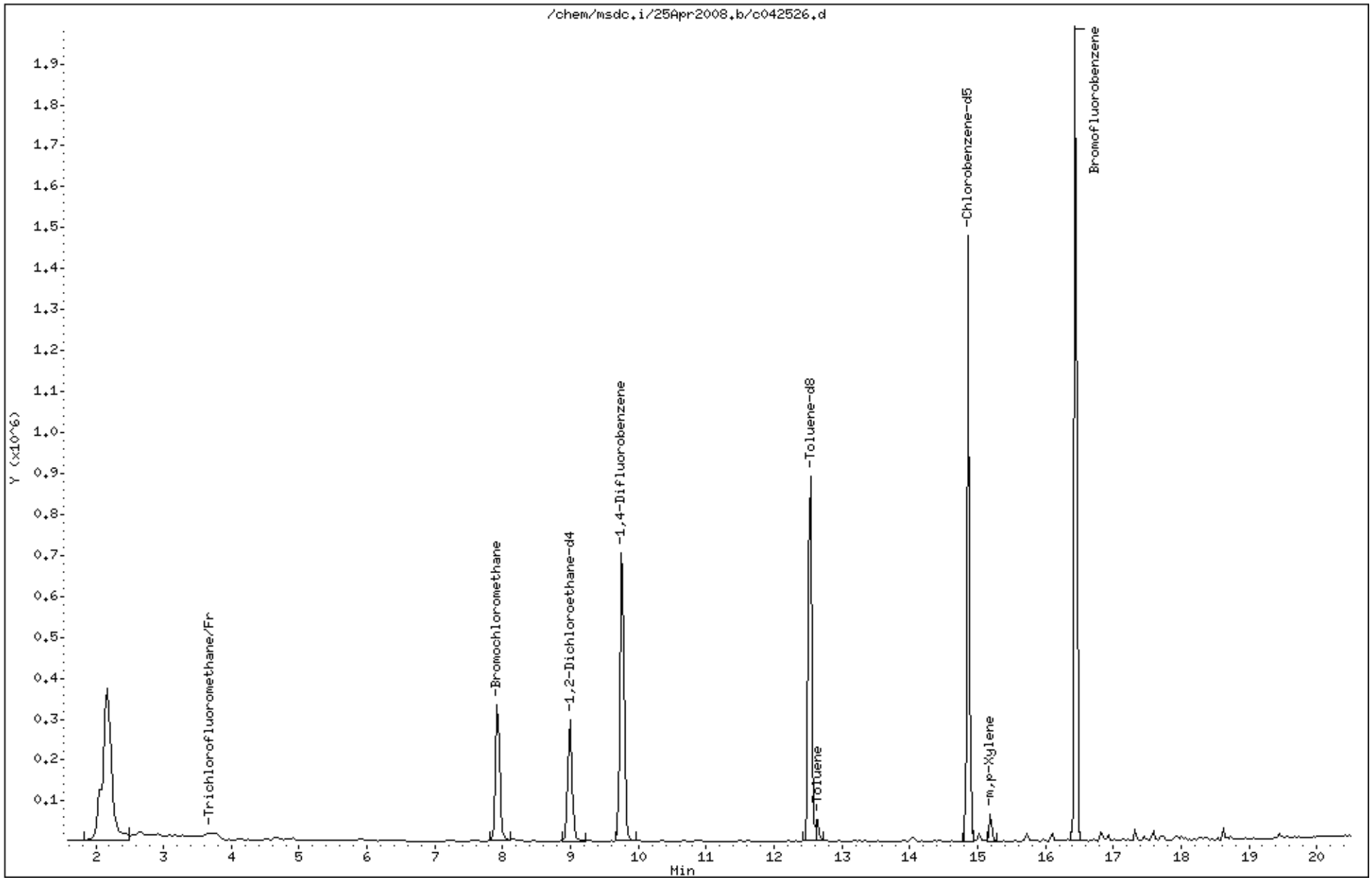
0030

Data File: /chem/msdc.i/25Apr2008.b/c042526.d
Date : 25-APR-2008 15:40
Client ID:
Sample Info: 50mL,5612

Instrument: msdc.i

Operator: ac
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msdc.i/25Apr2008.b/c042526.d

Date : 25-APR-2008 15:40

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5612

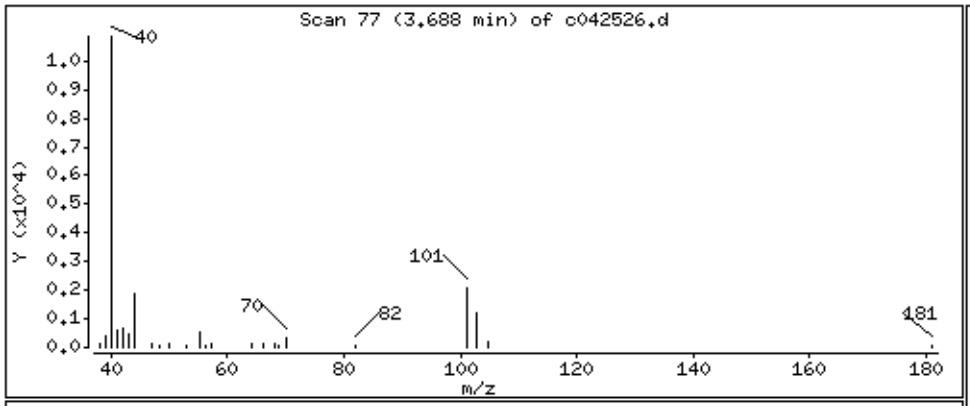
Operator: ac

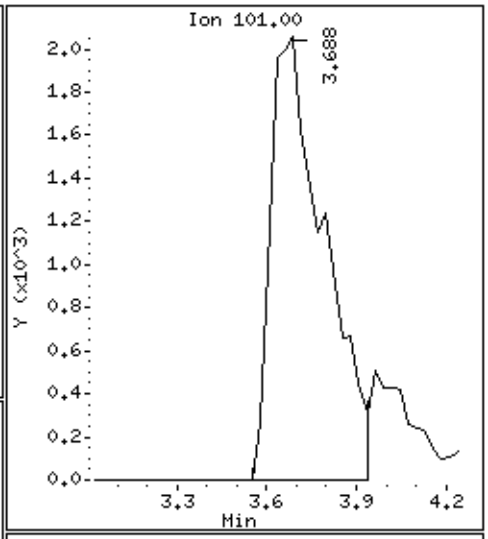
Column phase: RTx-624

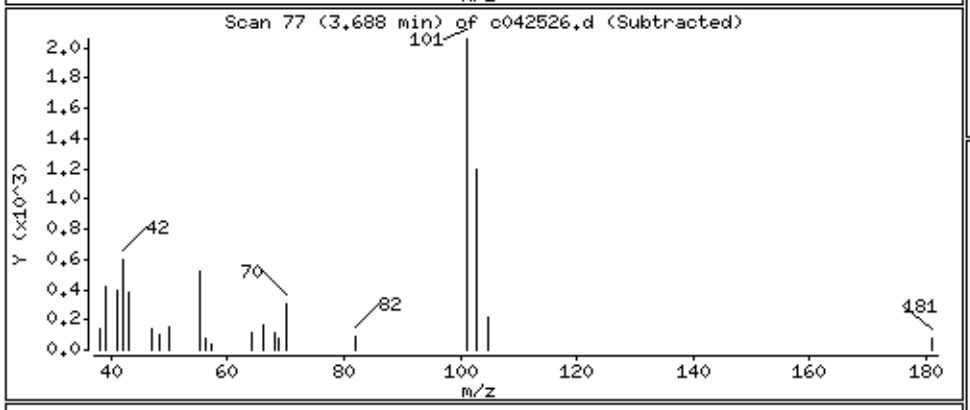
Column diameter: 0.53

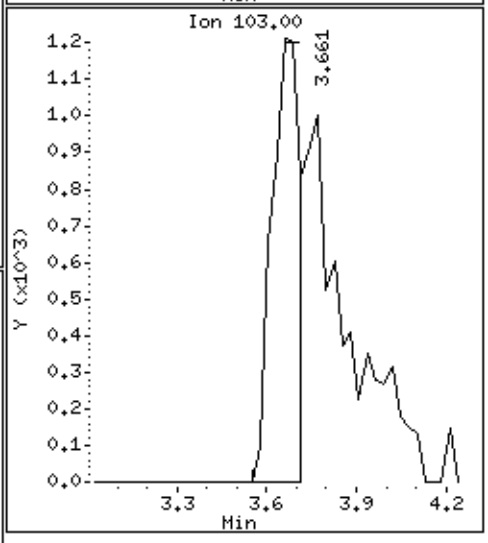
20 Trichlorofluoromethane/Fr11

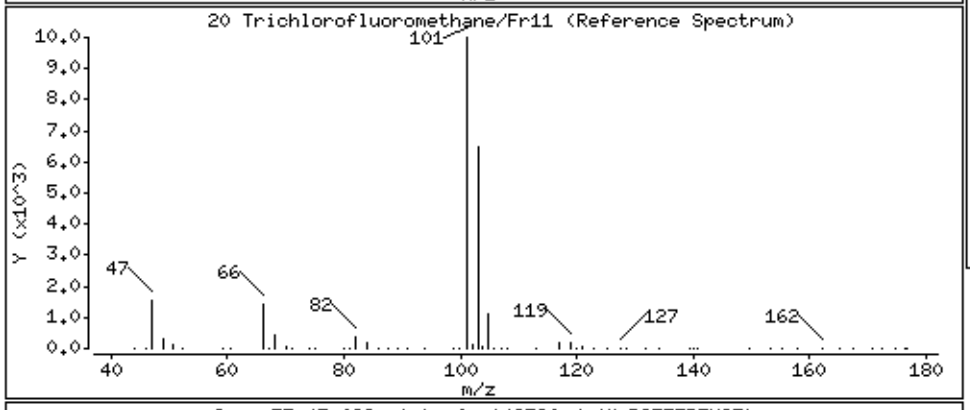
Concentration: 9.603 PPBV

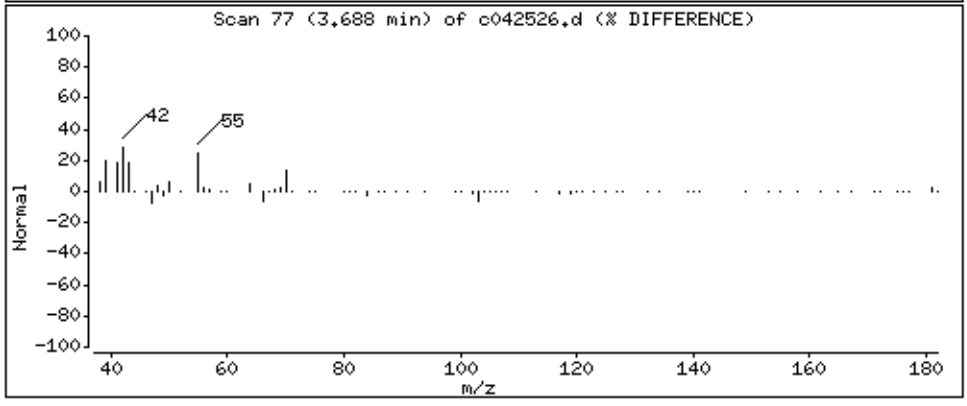












Data File: /chem/msdc.i/25Apr2008.b/c042526.d

Date : 25-APR-2008 15:40

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5612

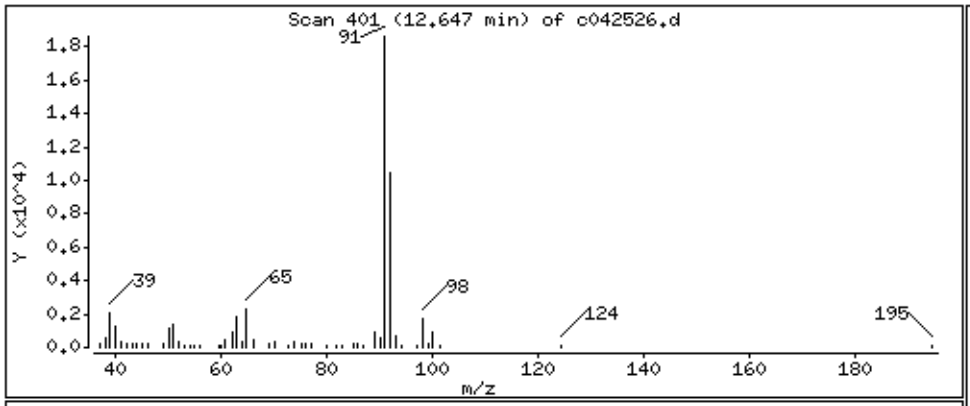
Operator: ac

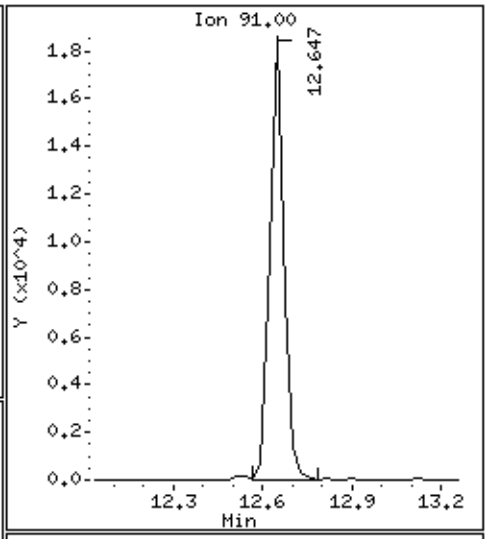
Column phase: RTx-624

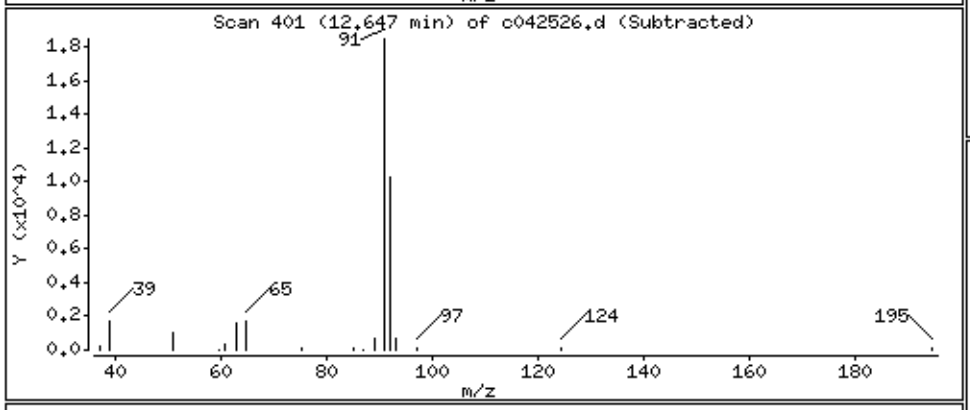
Column diameter: 0.53

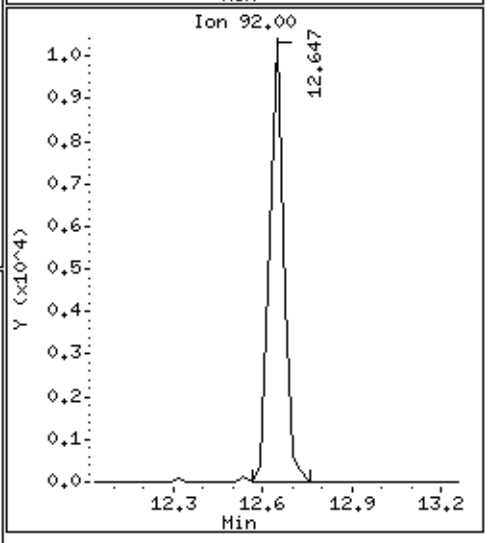
108 Toluene

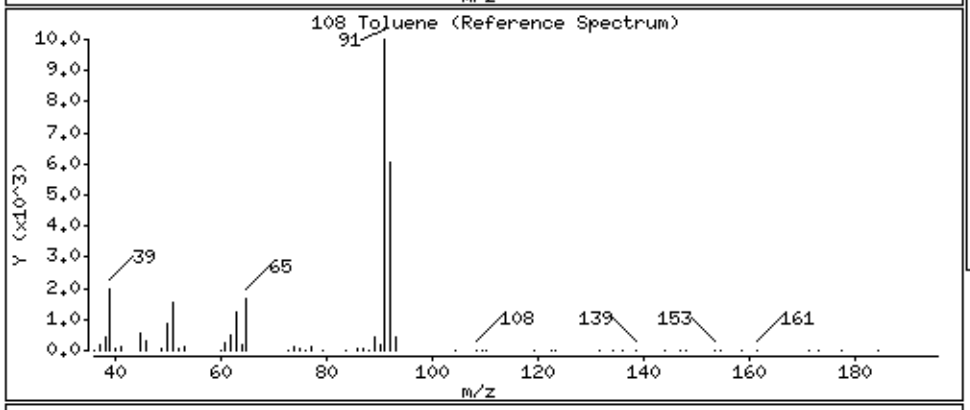
Concentration: 17.863 PPBV

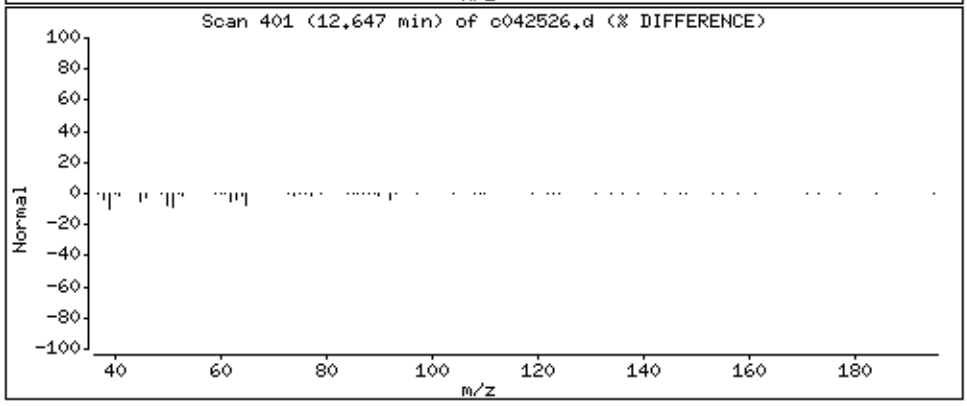












Data File: /chem/msdc.i/25Apr2008.b/c042526.d

Date : 25-APR-2008 15:40

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5612

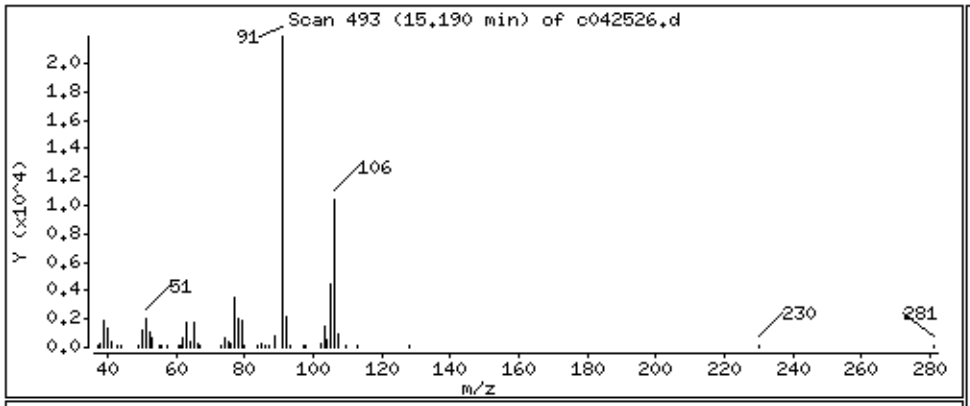
Operator: ac

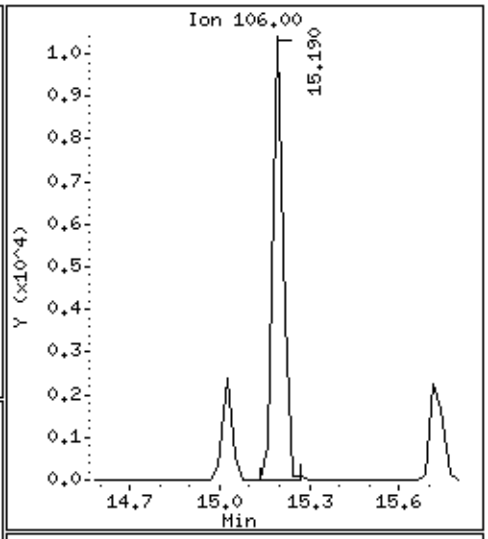
Column phase: RTx-624

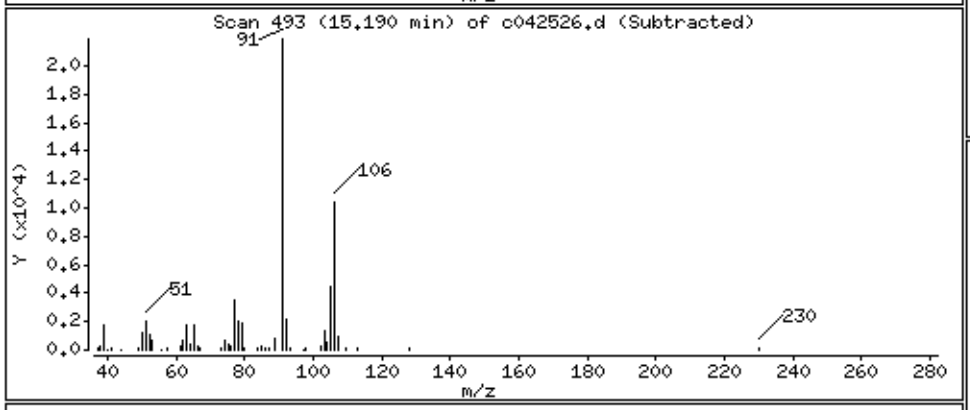
Column diameter: 0.53

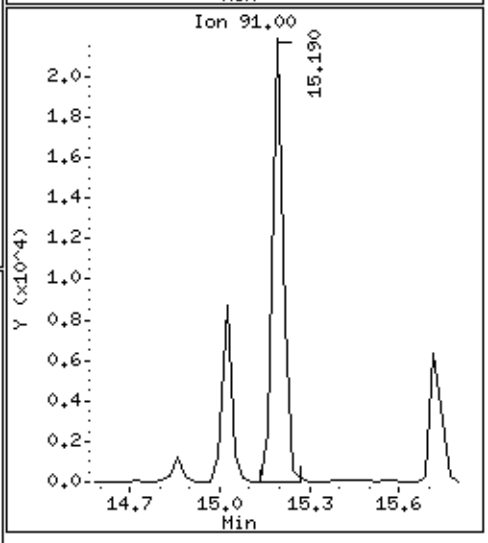
130 m,p-Xylene

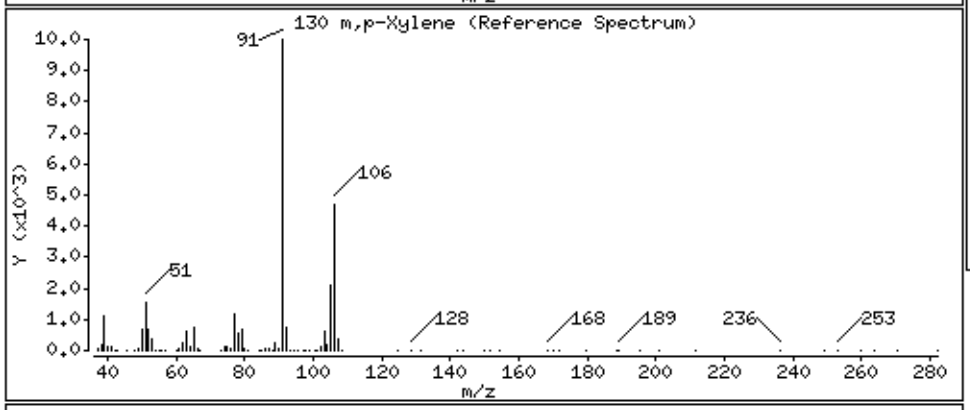
Concentration: 14.170 PPBV

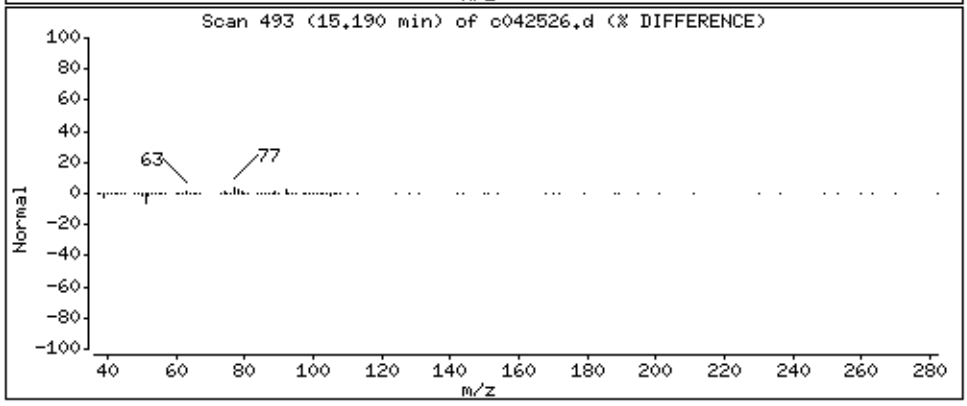












AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: 1040SG104

Lab ID#: 0804495A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 11	7.3	11	41	63
Acetone	29	31	69	75
Toluene	7.3	30	28	110
m,p-Xylene	7.3	24	32	100
o-Xylene	7.3	8.5	32	37
4-Ethyltoluene	7.3	11	36	52
1,3,5-Trimethylbenzene	7.3	8.8	36	43
1,2,4-Trimethylbenzene	7.3	21	36	100

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG104

Lab ID#: 0804495A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042527**	**Date of Collection:**	**4/18/08**
Dil. Factor:	**1.46**	**Date of Analysis:**	**4/25/08 04:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	7.3	Not Detected	36	Not Detected
Freon 114	7.3	Not Detected	51	Not Detected
Chloromethane	29	Not Detected	60	Not Detected
Vinyl Chloride	7.3	Not Detected	19	Not Detected
1,3-Butadiene	7.3	Not Detected	16	Not Detected
Bromomethane	7.3	Not Detected	28	Not Detected
Chloroethane	7.3	Not Detected	19	Not Detected
Freon 11	7.3	11	41	63
Ethanol	29	Not Detected	55	Not Detected
Freon 113	7.3	Not Detected	56	Not Detected
1,1-Dichloroethene	7.3	Not Detected	29	Not Detected
Acetone	29	31	69	75
2-Propanol	29	Not Detected	72	Not Detected
Carbon Disulfide	7.3	Not Detected	23	Not Detected
3-Chloropropene	29	Not Detected	91	Not Detected
Methylene Chloride	7.3	Not Detected	25	Not Detected
Methyl tert-butyl ether	7.3	Not Detected	26	Not Detected
trans-1,2-Dichloroethene	7.3	Not Detected	29	Not Detected
Hexane	7.3	Not Detected	26	Not Detected
1,1-Dichloroethane	7.3	Not Detected	30	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.3	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	7.3	Not Detected	29	Not Detected
Tetrahydrofuran	7.3	Not Detected	22	Not Detected
Chloroform	7.3	Not Detected	36	Not Detected
1,1,1-Trichloroethane	7.3	Not Detected	40	Not Detected
Cyclohexane	7.3	Not Detected	25	Not Detected
Carbon Tetrachloride	7.3	Not Detected	46	Not Detected
2,2,4-Trimethylpentane	7.3	Not Detected	34	Not Detected
Benzene	7.3	Not Detected	23	Not Detected
1,2-Dichloroethane	7.3	Not Detected	30	Not Detected
Heptane	7.3	Not Detected	30	Not Detected
Trichloroethene	7.3	Not Detected	39	Not Detected
1,2-Dichloropropane	7.3	Not Detected	34	Not Detected
1,4-Dioxane	29	Not Detected	100	Not Detected
Bromodichloromethane	7.3	Not Detected	49	Not Detected
cis-1,3-Dichloropropene	7.3	Not Detected	33	Not Detected
4-Methyl-2-pentanone	7.3	Not Detected	30	Not Detected
Toluene	7.3	30	28	110
trans-1,3-Dichloropropene	7.3	Not Detected	33	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG104

Lab ID#: 0804495A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042527**	**Date of Collection: 4/18/08**	
Dil. Factor:	**1.46**	**Date of Analysis: 4/25/08 04:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	7.3	Not Detected	40	Not Detected
Tetrachloroethene	7.3	Not Detected	50	Not Detected
2-Hexanone	29	Not Detected	120	Not Detected
Dibromochloromethane	7.3	Not Detected	62	Not Detected
1,2-Dibromoethane (EDB)	7.3	Not Detected	56	Not Detected
Chlorobenzene	7.3	Not Detected	34	Not Detected
Ethyl Benzene	7.3	Not Detected	32	Not Detected
m,p-Xylene	7.3	24	32	100
o-Xylene	7.3	8.5	32	37
Styrene	7.3	Not Detected	31	Not Detected
Bromoform	7.3	Not Detected	75	Not Detected
Cumene	7.3	Not Detected	36	Not Detected
1,1,2,2-Tetrachloroethane	7.3	Not Detected	50	Not Detected
Propylbenzene	7.3	Not Detected	36	Not Detected
4-Ethyltoluene	7.3	11	36	52
1,3,5-Trimethylbenzene	7.3	8.8	36	43
1,2,4-Trimethylbenzene	7.3	21	36	100
1,3-Dichlorobenzene	7.3	Not Detected	44	Not Detected
1,4-Dichlorobenzene	7.3	Not Detected	44	Not Detected
alpha-Chlorotoluene	7.3	Not Detected	38	Not Detected
1,2-Dichlorobenzene	7.3	Not Detected	44	Not Detected
1,2,4-Trichlorobenzene	29	Not Detected	220	Not Detected
Hexachlorobutadiene	29	Not Detected	310	Not Detected
1,1-Difluoroethane	29	Not Detected	79	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042527.d
Lab Smp Id: 0804495A-04A
Inj Date : 25-APR-2008 16:06
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,5699
Misc Info : 2.5" Hg -> 5psi, Erler
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 05-May-2008 12:16 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1
Dil Factor: 1.46000
Integrator: HP RTE Compound Sublist: TO15+152a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.918	7.921 (1.000)	130	281243	400.000		80.00- 120.00	100.00
7.918	7.921 (1.000)	128	219280			48.28- 108.28	77.97
7.918	7.921 (1.000)	49	310526			89.90- 149.90	110.41
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.771	9.746 (1.000)	114	1289907	400.000		80.00- 120.00	100.00
9.743	9.746 (1.000)	88	231301			0.00- 48.00	17.93
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.858	14.861 (1.000)	117	1083557	400.000		80.00- 120.00	100.00
14.858	14.861 (1.000)	82	732962			0.00- 30.00	67.64
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.997	8.972 (1.136)	65	615834	449.593	449.59	80.00- 120.00	100.00
8.997	8.972 (1.136)	67	283285			0.00- 30.00	46.00
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.536	12.511 (1.283)	98	1317260	409.546	409.55	80.00- 120.00	100.00
12.536	12.511 (1.283)	70	167242			0.00- 30.00	12.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.536	12.511 (1.283)	100	755083			0.00- 30.00	57.32
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.435	16.437 (1.106)	174	699411	404.971	404.97	80.00- 120.00	100.00
16.435	16.437 (1.106)	95	1062196			117.94- 177.94	151.87
16.462	16.437 (1.108)	176	674637			67.07- 127.07	96.46
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.633	3.635 (0.459)	101	31770	7.63205	11.143	80.00- 120.00	100.00
3.660	3.635 (0.462)	103	20786			33.94- 93.94	65.43
32 Acetone					CAS #: 67-64-1		
4.656	4.631 (0.588)	58	13230	21.5192	31.418	80.00- 120.00	100.00
4.656	4.631 (0.588)	43	46454			0.00- 30.00	351.11
108 Toluene					CAS #: 108-88-3		
12.647	12.649 (1.294)	91	108021	20.7041	30.228	80.00- 120.00	100.00
12.647	12.649 (1.294)	92	64474			27.71- 87.71	59.69
130 m,p-Xylene					CAS #: 108-38-3		
15.190	15.193 (1.022)	106	43500	16.1475	23.575	80.00- 120.00	100.00
15.190	15.193 (1.022)	91	93810			0.00- 30.00	215.65
132 o-Xylene					CAS #: 95-47-6		
15.716	15.718 (1.058)	106	14663	5.81439	8.489	80.00- 120.00	100.00
15.716	15.718 (1.058)	91	34062			218.91- 278.91	232.29
144 4-Ethyltoluene					CAS #: 622-96-8		
16.822	16.852 (1.132)	105	53925	7.26935	10.613	80.00- 120.00	100.00
16.822	16.852 (1.132)	120	16159			0.00- 58.00	29.97
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.932	16.935 (1.140)	105	40112	6.02389	8.795	80.00- 120.00	100.00
16.932	16.935 (1.140)	120	18801			0.00- 30.00	46.87
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.319	17.322 (1.166)	105	103609	14.3230	20.912	80.00- 120.00	100.00
17.319	17.322 (1.166)	120	43656			9.95- 69.95	42.14

Report Date: 05-May-2008 12:31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042527.d
Lab Smp Id: 0804495A-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 2.5" Hg -> 5psi, Erler

Calibration Date: 25-APR-2008
Calibration Time: 01:24
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	426794	256076	597512	281243	-34.10
92 1,4-Difluorobenze	1936987	1162192	2711782	1289907	-33.41
125 Chlorobenzene-d5	1655878	993527	2318229	1083557	-34.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	-0.03
92 1,4-Difluorobenze	9.75	9.42	10.08	9.77	0.26
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 05-May-2008 12:31

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804495A-04A
Level: LOW Operator: ac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15+152a.sub
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 2.5" Hg -> 5psi, Erler

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	400.00	449.59	112.40	70-130
$ 107 Toluene-d8	400.00	409.55	102.39	70-130
$ 138 Bromofluorobenzene	400.00	404.97	101.24	70-130

Data File: /chem/msdc.i/25Apr2008.b/c042527.d

Date : 25-APR-2008 16:06

Client ID:

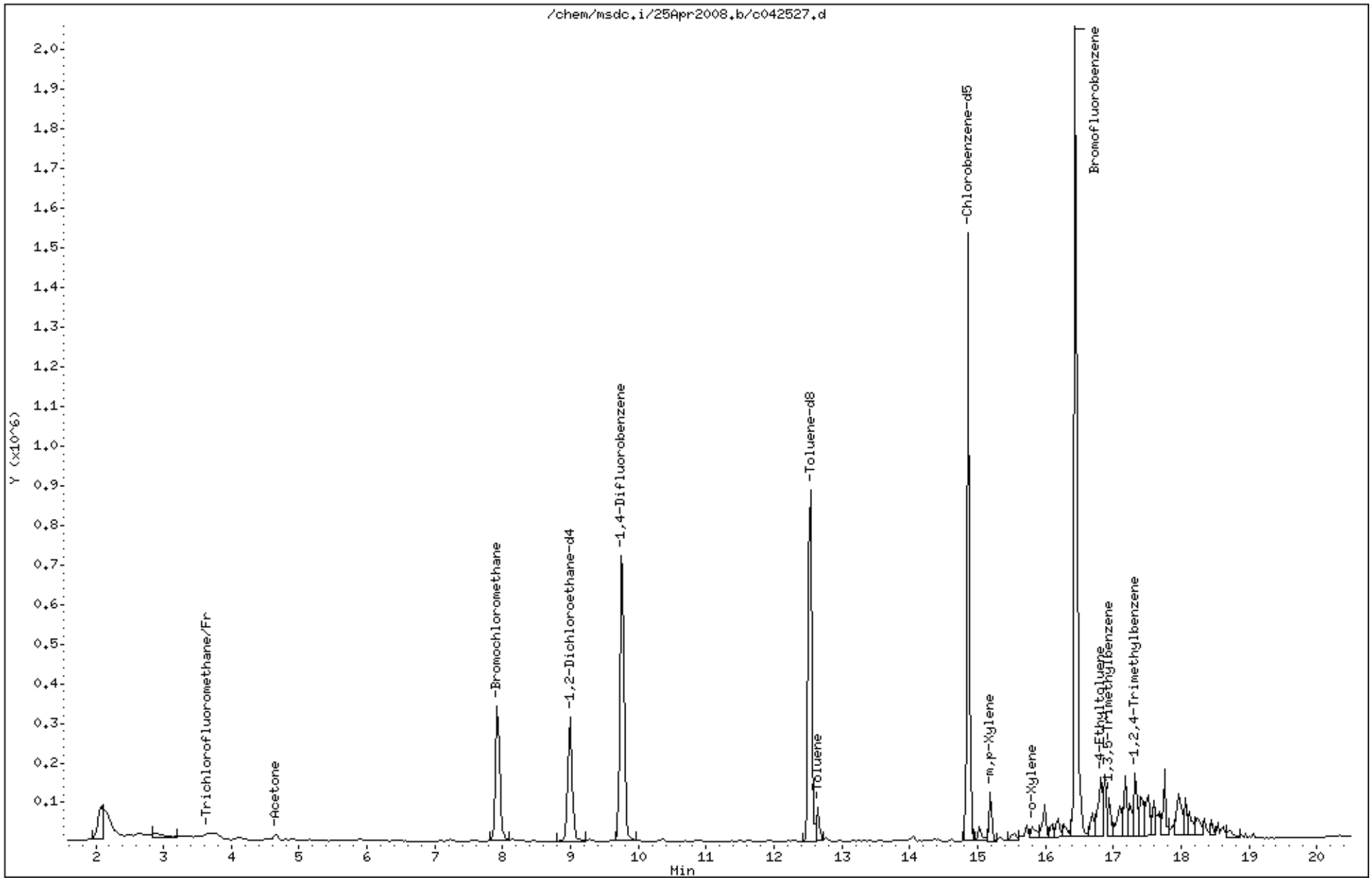
Sample Info: 50mL,5699

Column phase: RTx-624

Instrument: msdc.i

Operator: ac

Column diameter: 0.53



Data File: /chem/msdc.i/25Apr2008.b/c042527.d

Date : 25-APR-2008 16:06

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5699

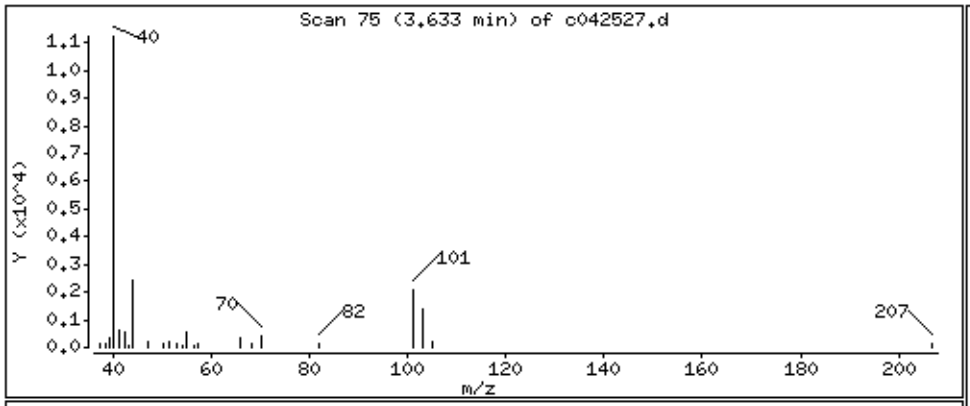
Operator: ac

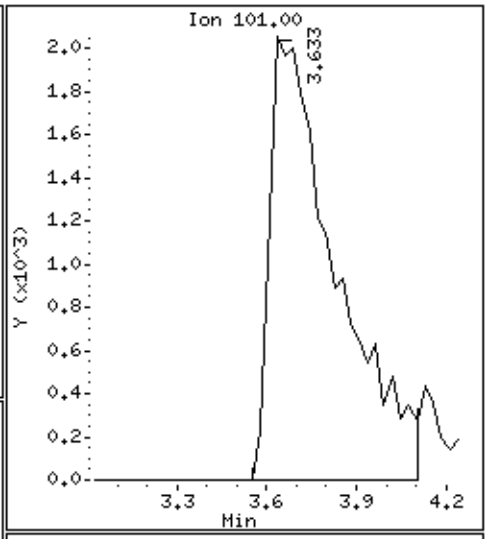
Column phase: RTx-624

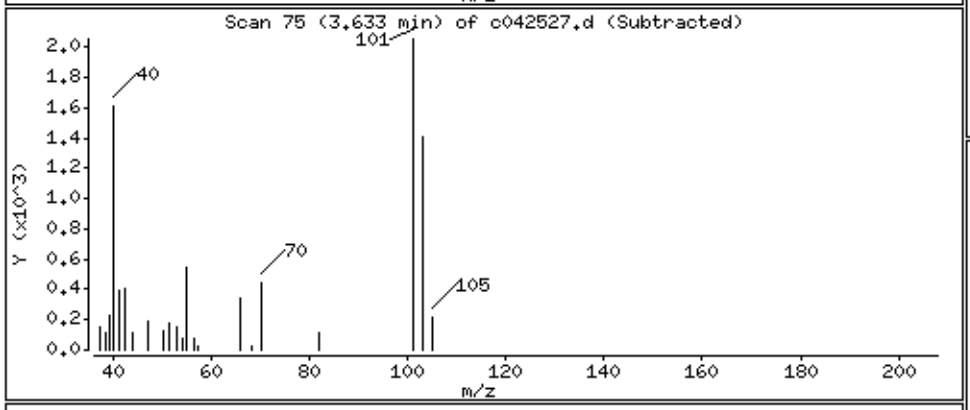
Column diameter: 0.53

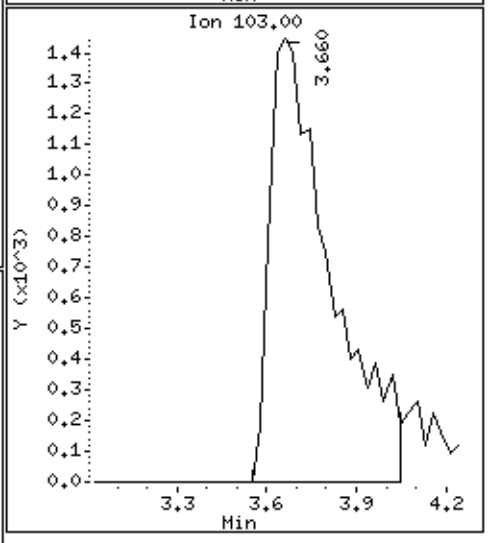
20 Trichlorofluoromethane/Fr11

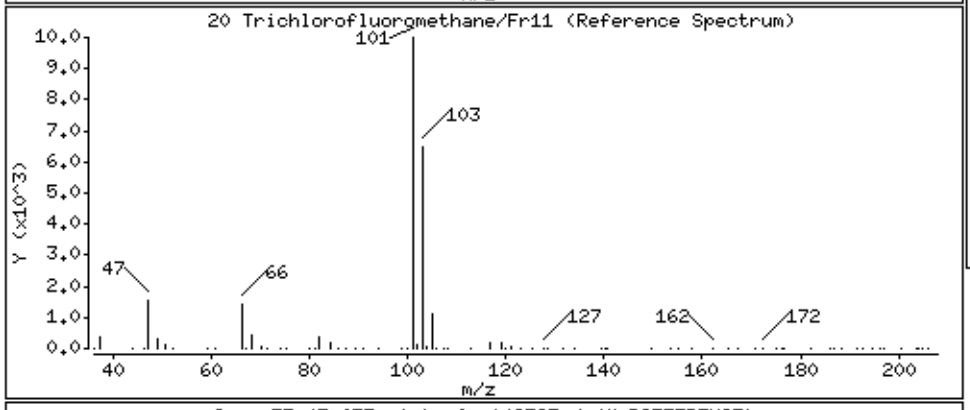
Concentration: 11.143 PPBV

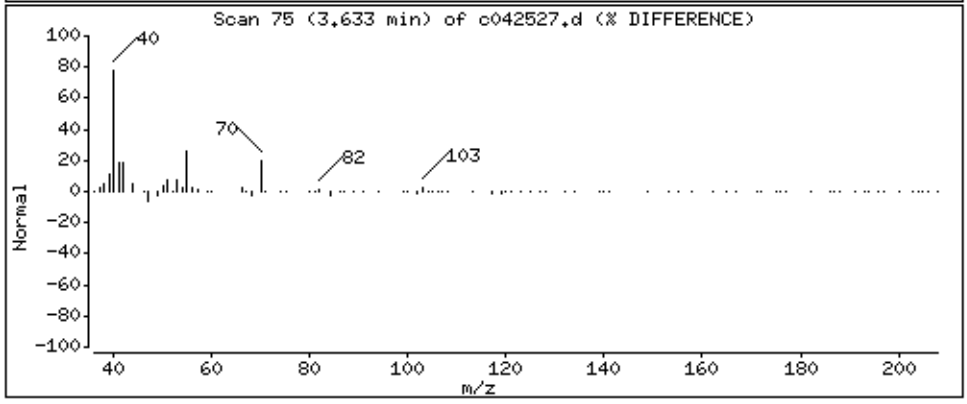












Data File: /chem/msdc.i/25Apr2008.b/c042527.d

Date : 25-APR-2008 16:06

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5699

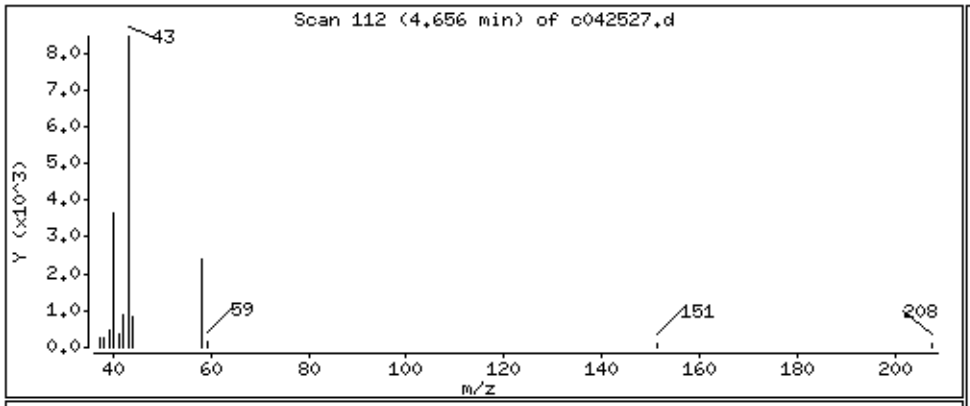
Operator: ac

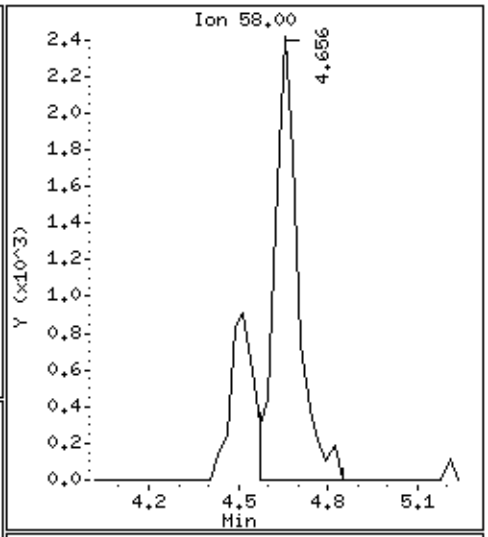
Column phase: RTx-624

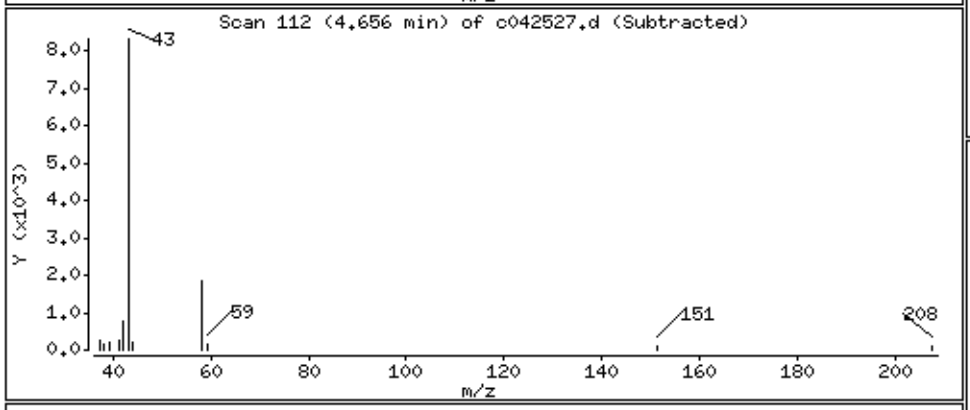
Column diameter: 0.53

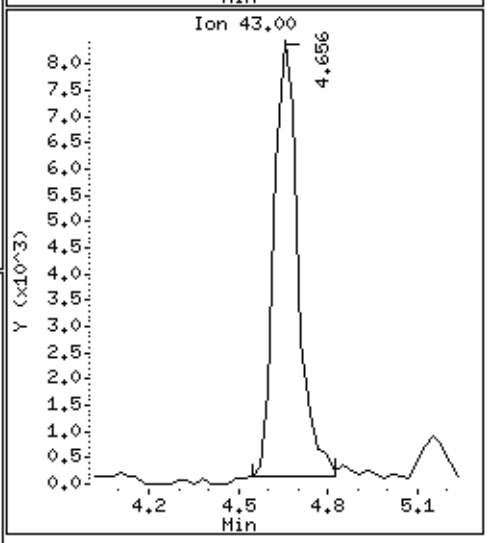
32 Acetone

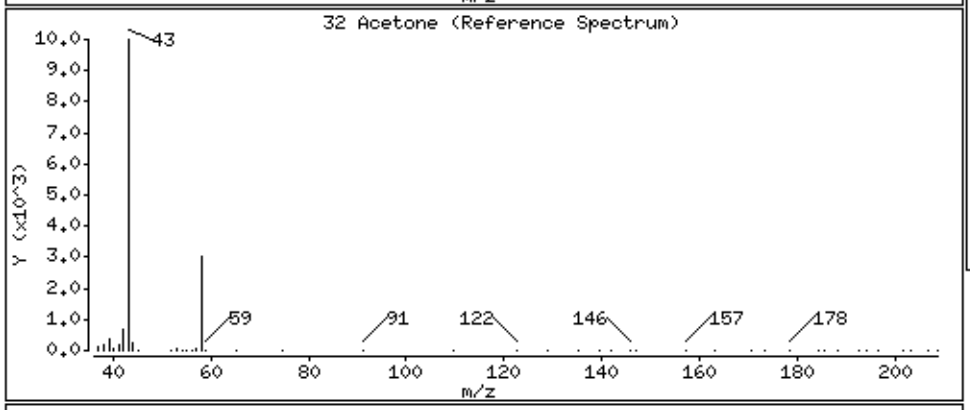
Concentration: 31.418 PPBV

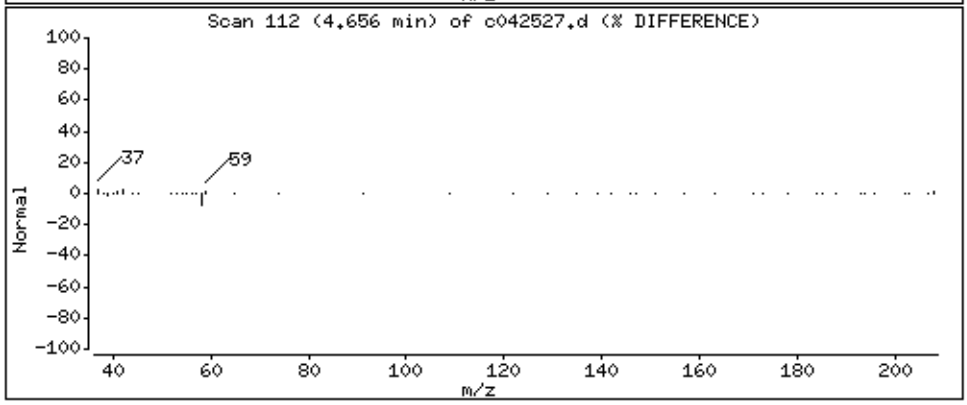












Data File: /chem/msdc.i/25Apr2008.b/c042527.d

Date : 25-APR-2008 16:06

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5699

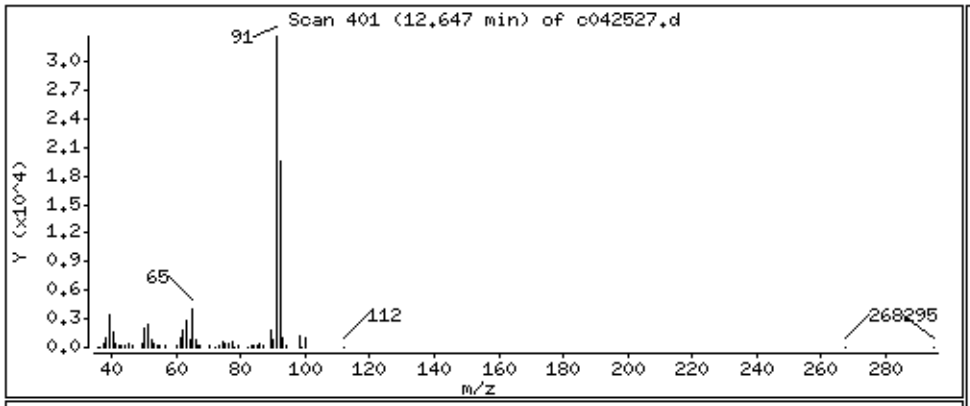
Operator: ac

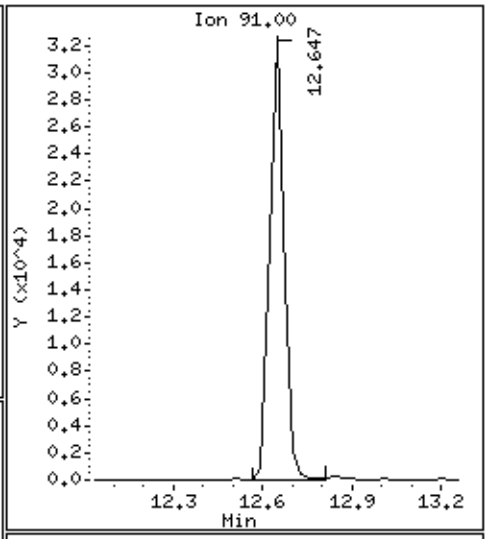
Column phase: RTx-624

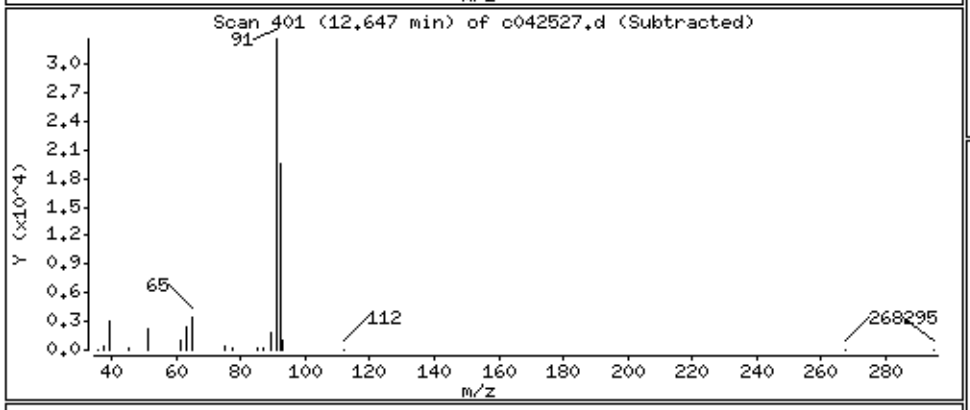
Column diameter: 0.53

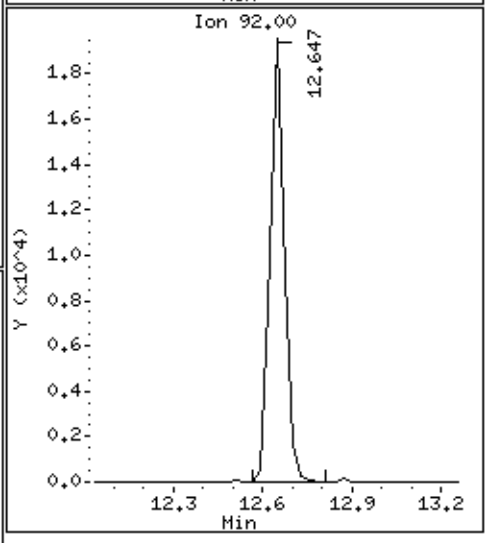
108 Toluene

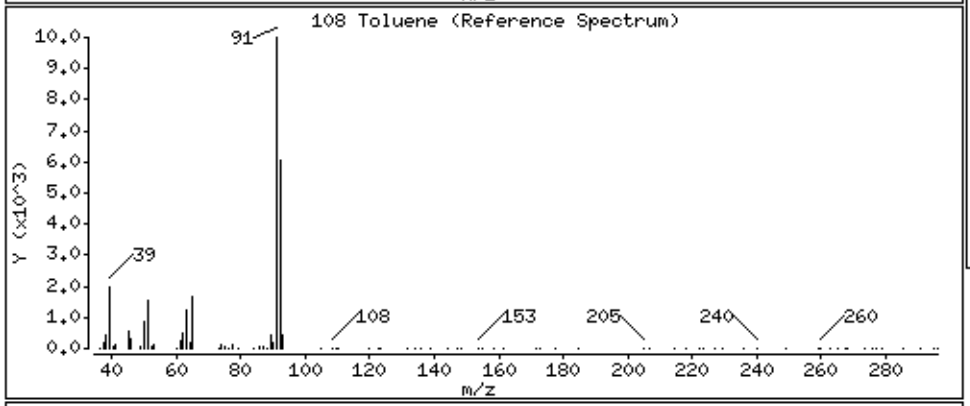
Concentration: 30.228 PPBV

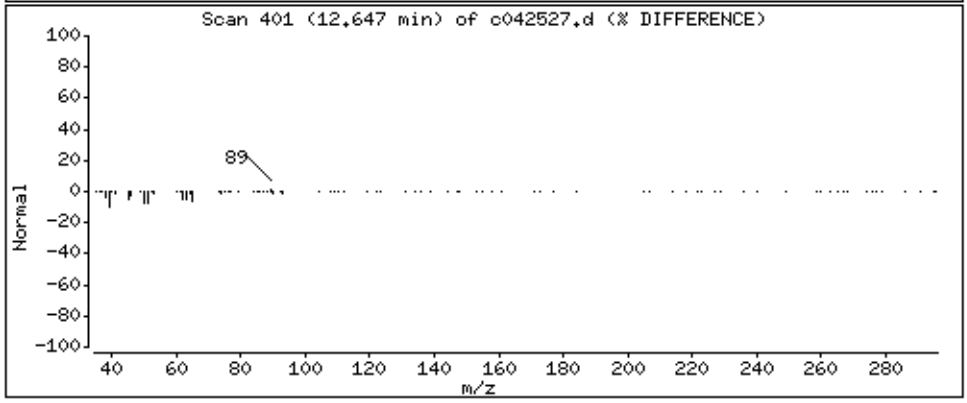












Data File: /chem/msdc.i/25Apr2008.b/c042527.d

Date : 25-APR-2008 16:06

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5699

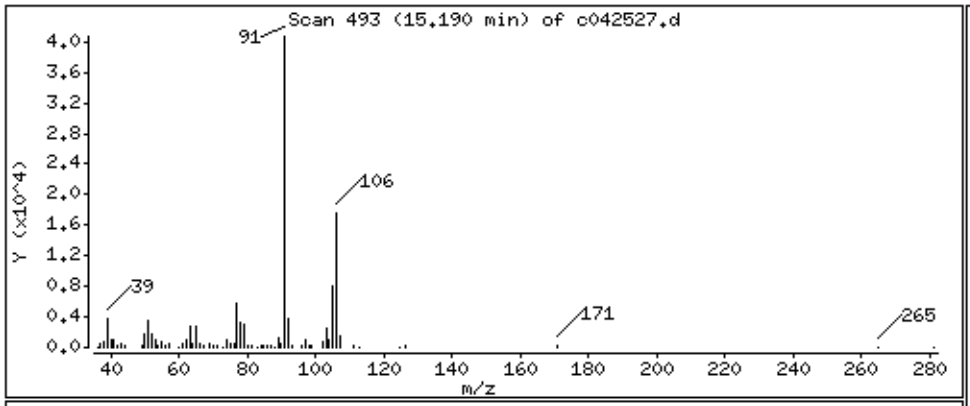
Operator: ac

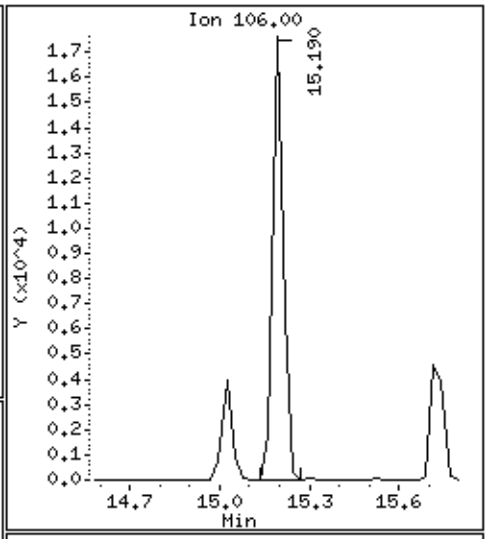
Column phase: RTx-624

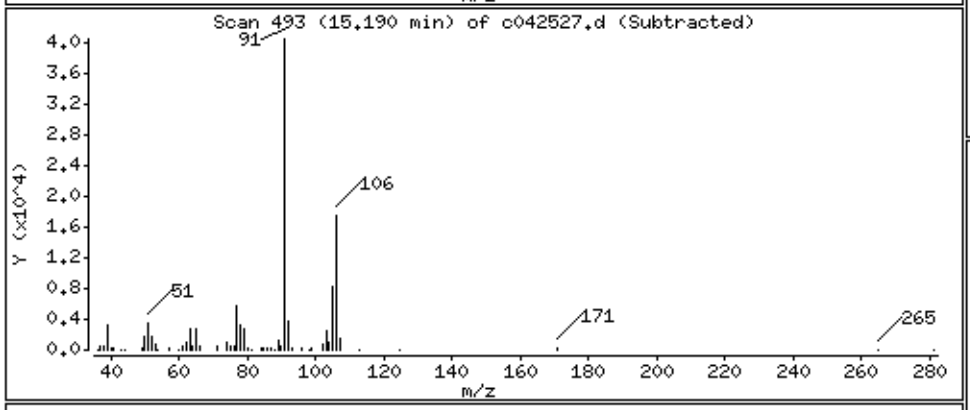
Column diameter: 0.53

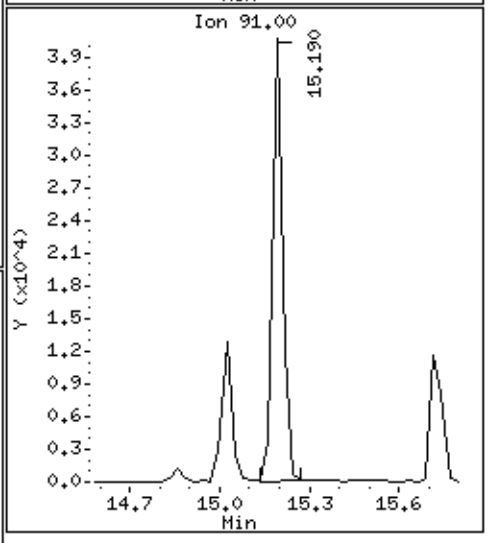
130 m,p-Xylene

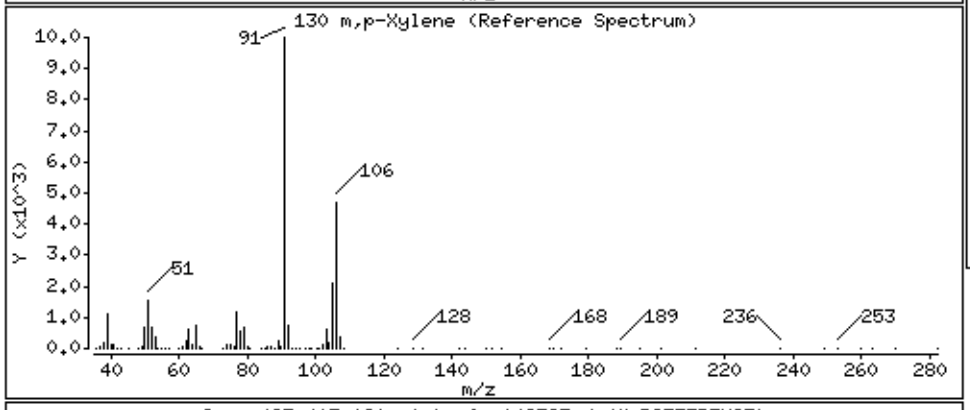
Concentration: 23.575 PPBV

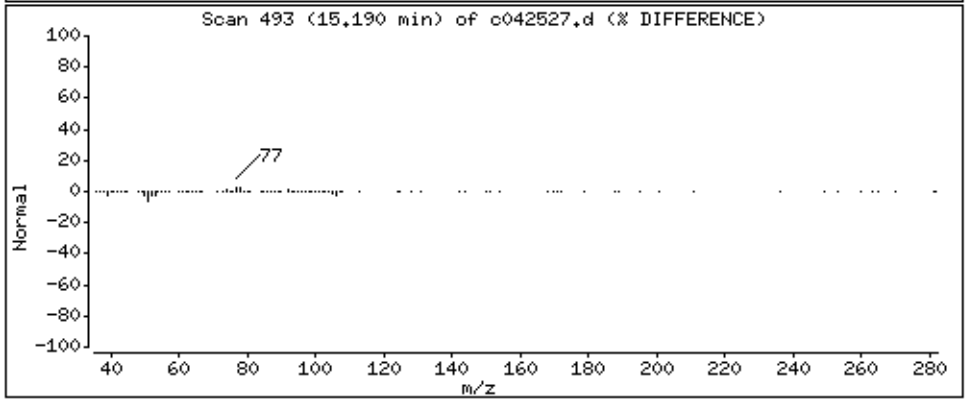












Data File: /chem/msdc.i/25Apr2008.b/c042527.d

Date : 25-APR-2008 16:06

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5699

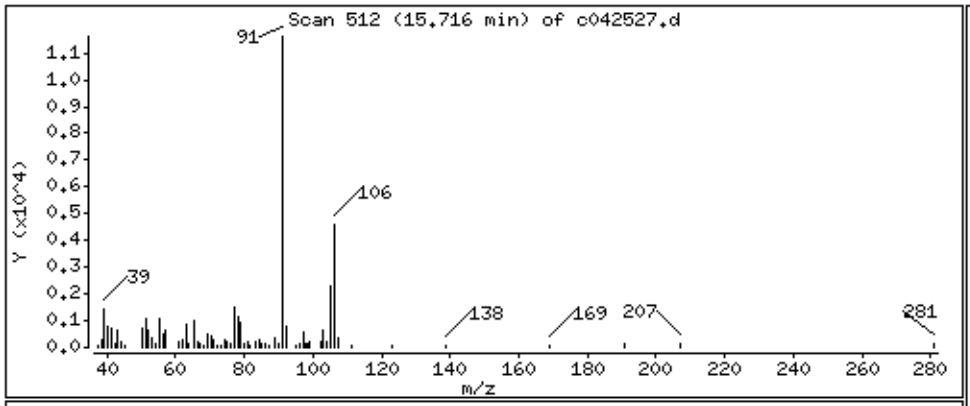
Operator: ac

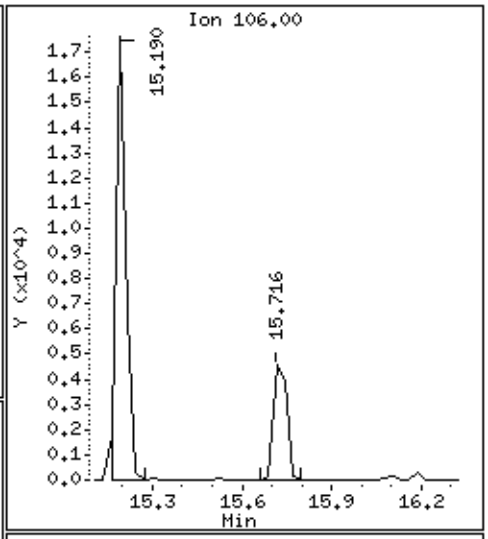
Column phase: RTx-624

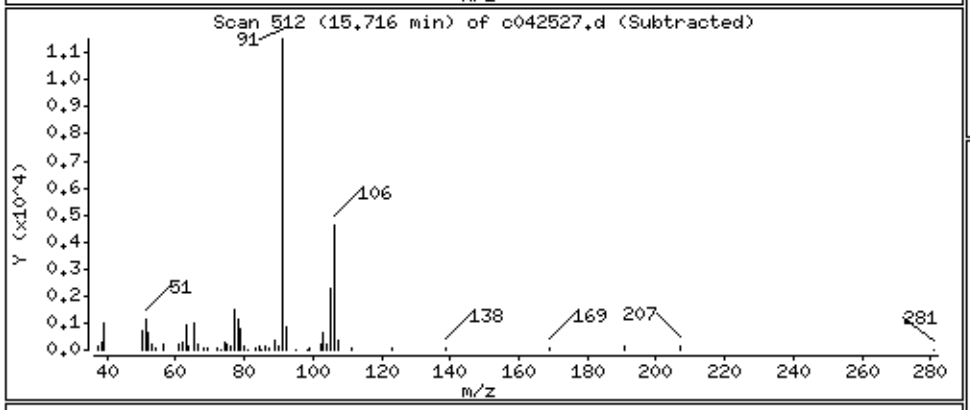
Column diameter: 0.53

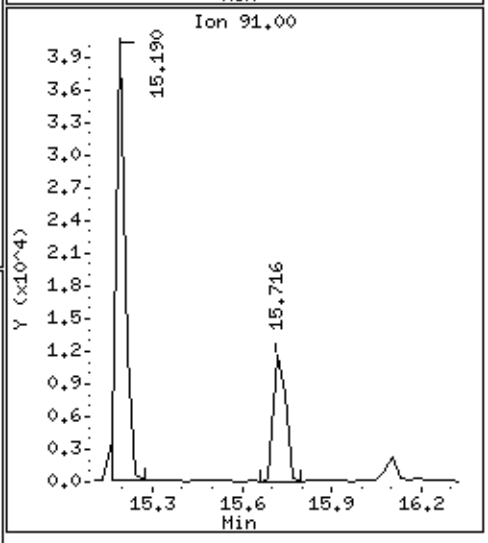
132 o-Xylene

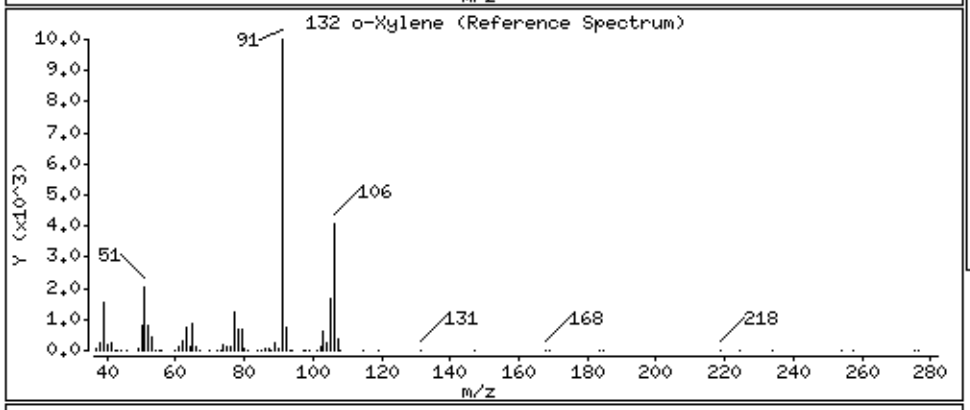
Concentration: 8.489 PPBV

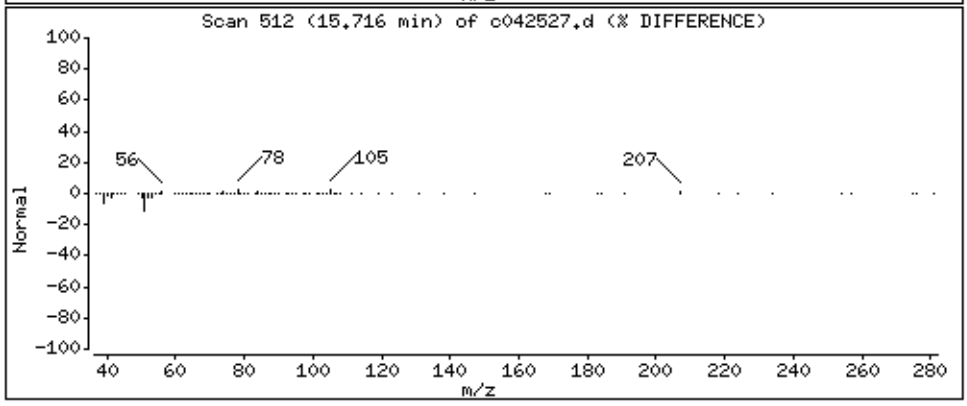












Data File: /chem/msdc.i/25Apr2008.b/c042527.d

Date : 25-APR-2008 16:06

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5699

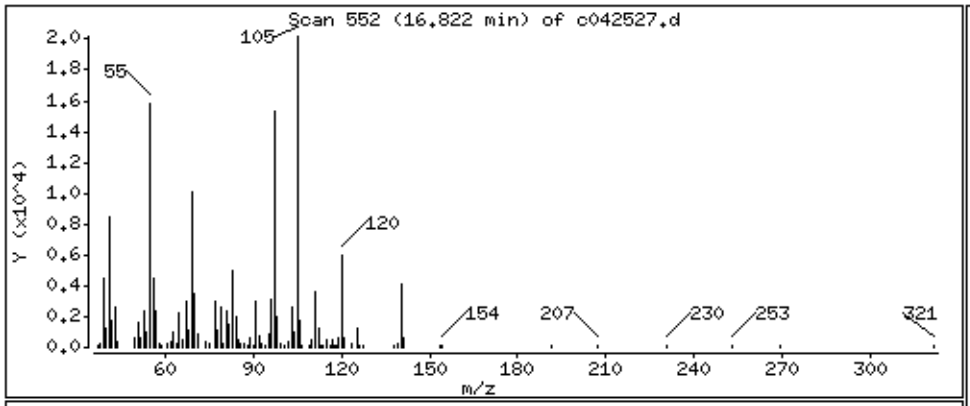
Operator: ac

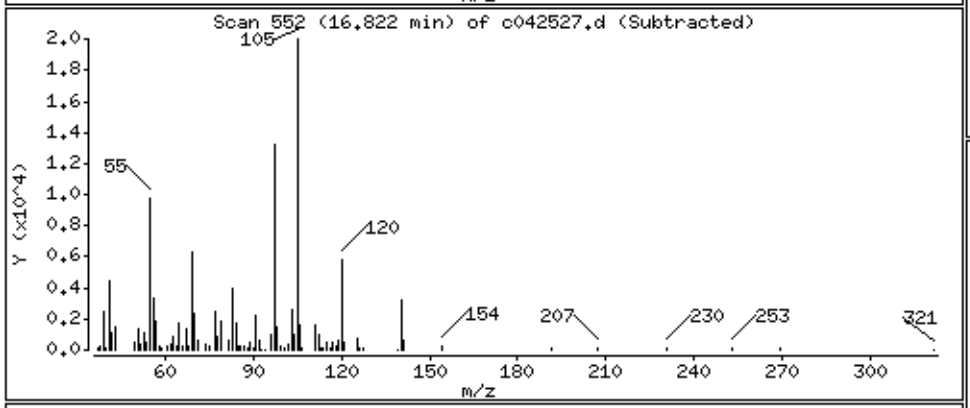
Column phase: RTx-624

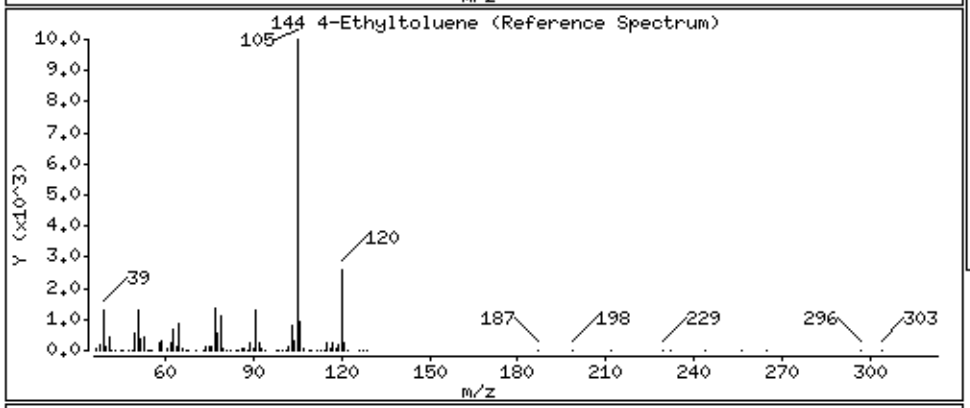
Column diameter: 0.53

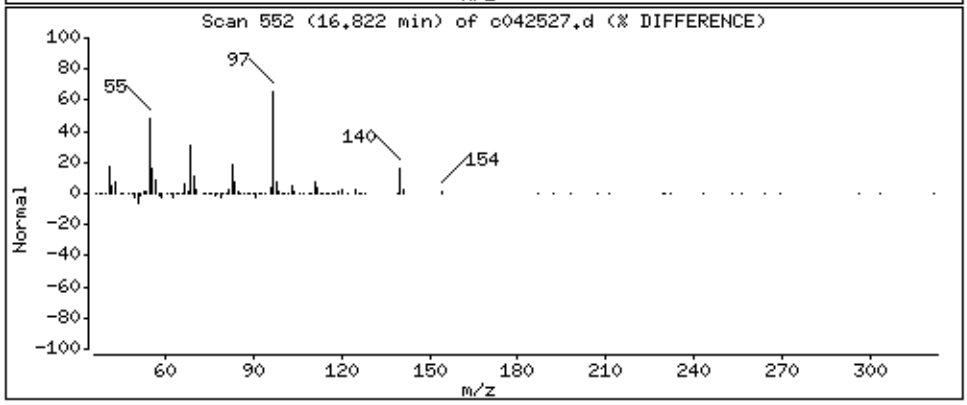
144 4-Ethyltoluene

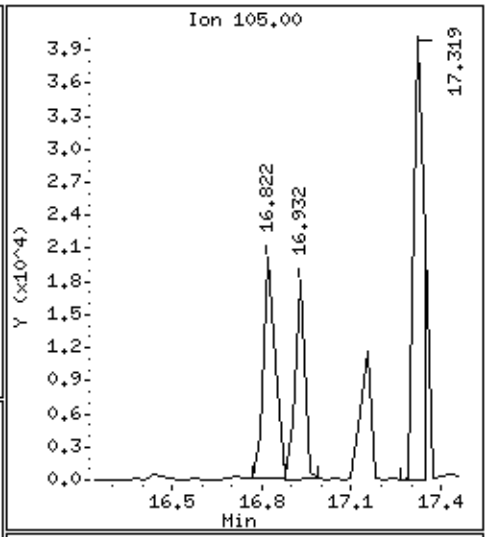
Concentration: 10.613 PPBV

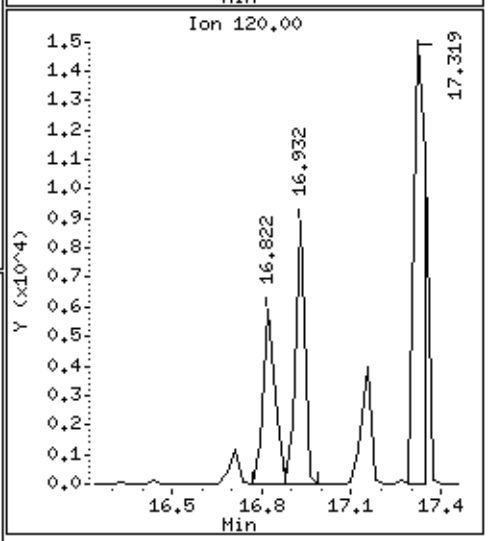












Data File: /chem/msdc.i/25Apr2008.b/c042527.d

Date : 25-APR-2008 16:06

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5699

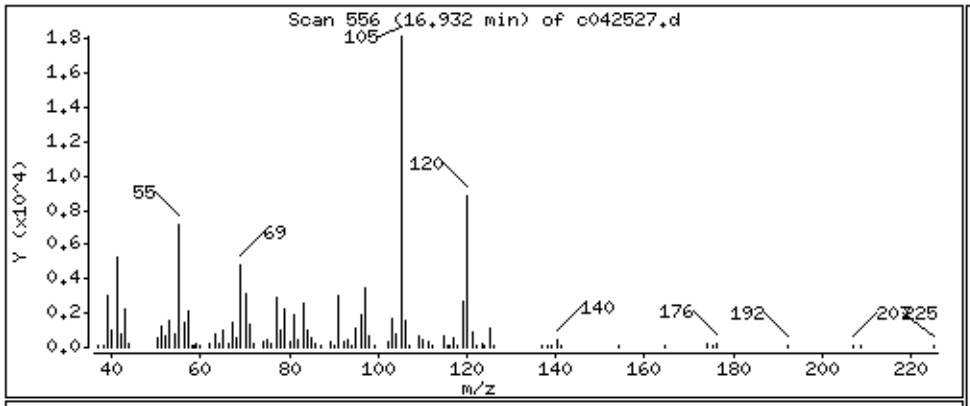
Operator: ac

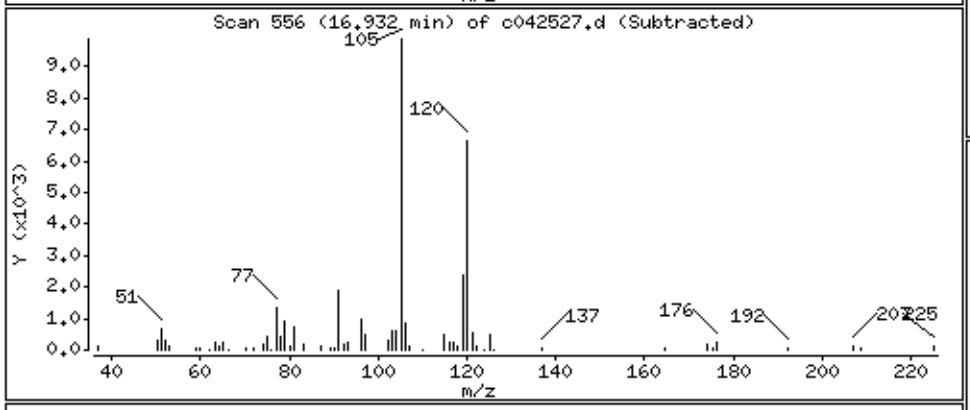
Column phase: RTx-624

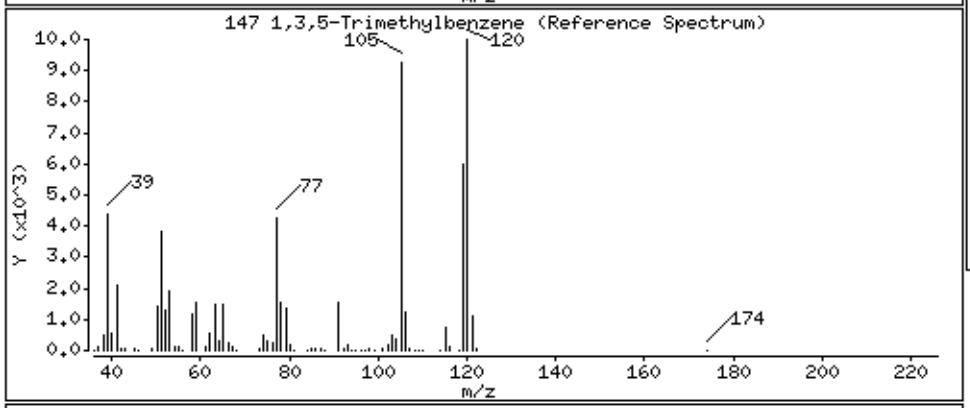
Column diameter: 0.53

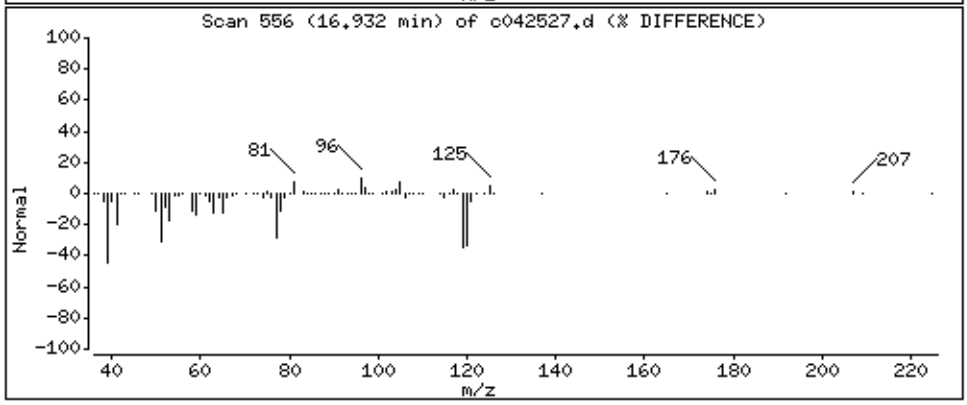
147 1,3,5-Trimethylbenzene

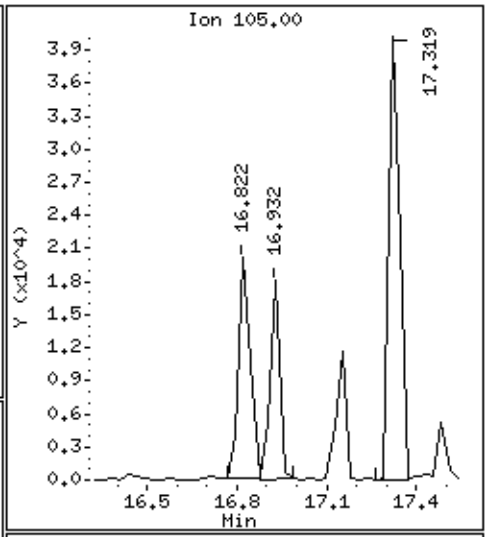
Concentration: 8.795 PPBV

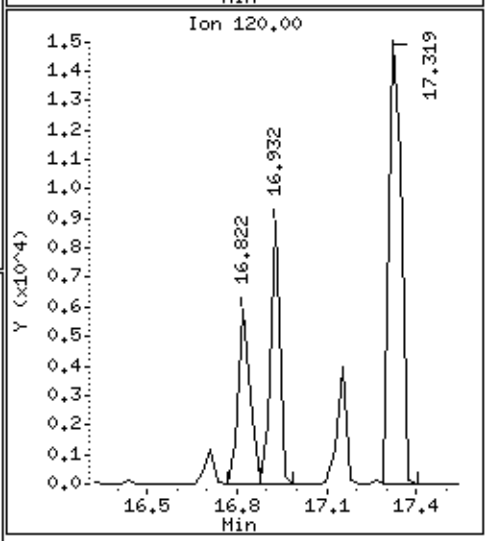












Data File: /chem/msdc.i/25Apr2008.b/c042527.d

Date : 25-APR-2008 16:06

Client ID:

Instrument: msdc.i

Sample Info: 50mL,5699

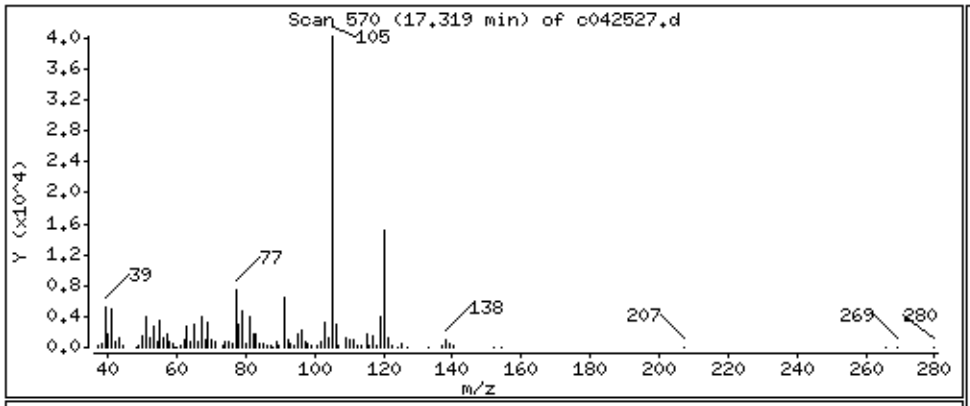
Operator: ac

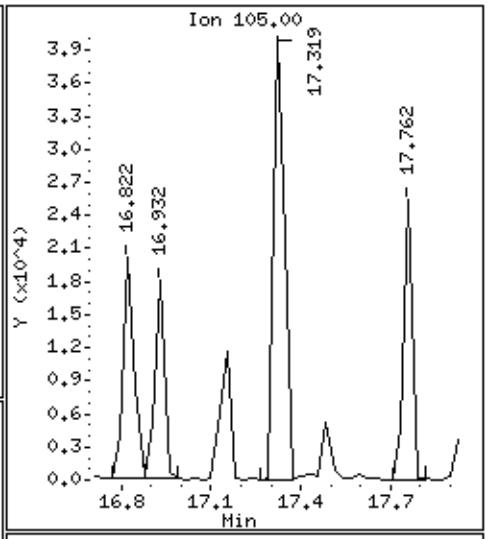
Column phase: RTx-624

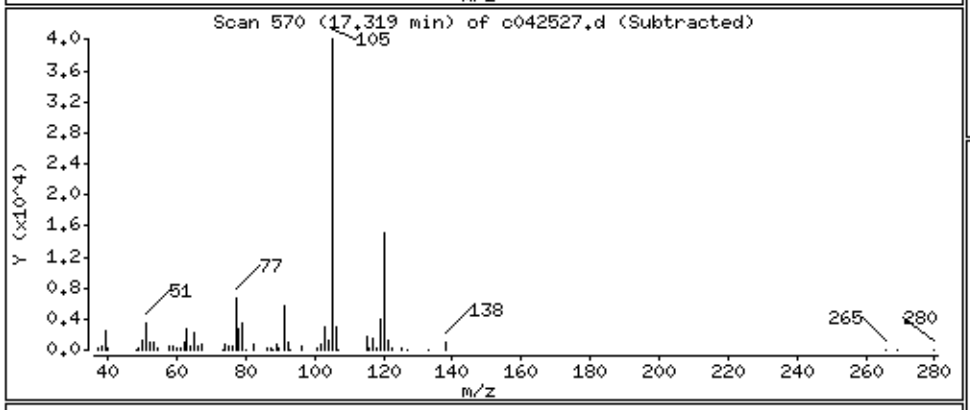
Column diameter: 0.53

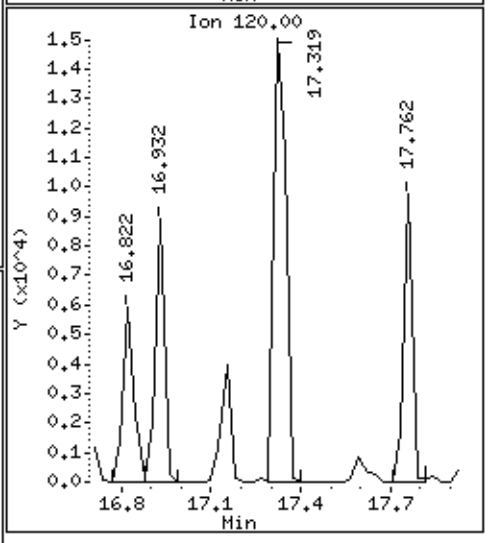
152 1,2,4-Trimethylbenzene

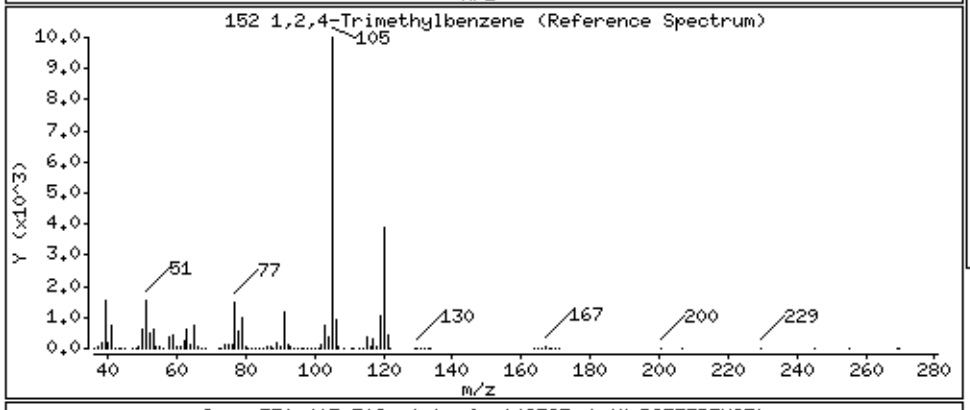
Concentration: 20.912 PPBV

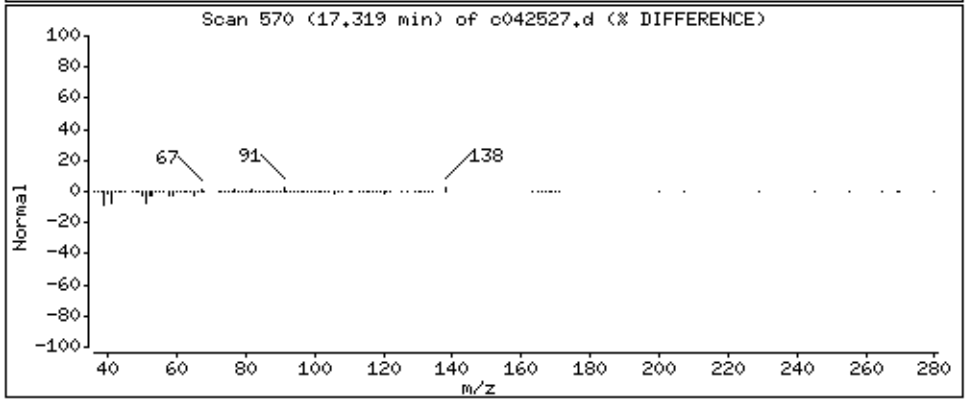












AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: 1040SG103

Lab ID#: 0804495A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
4-Methyl-2-pentanone	6.7	6.8	27	28
Toluene	6.7	11	25	41
m,p-Xylene	6.7	9.4	29	41

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG103

Lab ID#: 0804495A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042528**	**Date of Collection:**	**4/18/08**
Dil. Factor:	**1.34**	**Date of Analysis:**	**4/25/08 05:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	6.7	Not Detected	33	Not Detected
Freon 114	6.7	Not Detected	47	Not Detected
Chloromethane	27	Not Detected	55	Not Detected
Vinyl Chloride	6.7	Not Detected	17	Not Detected
1,3-Butadiene	6.7	Not Detected	15	Not Detected
Bromomethane	6.7	Not Detected	26	Not Detected
Chloroethane	6.7	Not Detected	18	Not Detected
Freon 11	6.7	Not Detected	38	Not Detected
Ethanol	27	Not Detected	50	Not Detected
Freon 113	6.7	Not Detected	51	Not Detected
1,1-Dichloroethene	6.7	Not Detected	26	Not Detected
Acetone	27	Not Detected	64	Not Detected
2-Propanol	27	Not Detected	66	Not Detected
Carbon Disulfide	6.7	Not Detected	21	Not Detected
3-Chloropropene	27	Not Detected	84	Not Detected
Methylene Chloride	6.7	Not Detected	23	Not Detected
Methyl tert-butyl ether	6.7	Not Detected	24	Not Detected
trans-1,2-Dichloroethene	6.7	Not Detected	26	Not Detected
Hexane	6.7	Not Detected	24	Not Detected
1,1-Dichloroethane	6.7	Not Detected	27	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.7	Not Detected	20	Not Detected
cis-1,2-Dichloroethene	6.7	Not Detected	26	Not Detected
Tetrahydrofuran	6.7	Not Detected	20	Not Detected
Chloroform	6.7	Not Detected	33	Not Detected
1,1,1-Trichloroethane	6.7	Not Detected	36	Not Detected
Cyclohexane	6.7	Not Detected	23	Not Detected
Carbon Tetrachloride	6.7	Not Detected	42	Not Detected
2,2,4-Trimethylpentane	6.7	Not Detected	31	Not Detected
Benzene	6.7	Not Detected	21	Not Detected
1,2-Dichloroethane	6.7	Not Detected	27	Not Detected
Heptane	6.7	Not Detected	27	Not Detected
Trichloroethene	6.7	Not Detected	36	Not Detected
1,2-Dichloropropane	6.7	Not Detected	31	Not Detected
1,4-Dioxane	27	Not Detected	96	Not Detected
Bromodichloromethane	6.7	Not Detected	45	Not Detected
cis-1,3-Dichloropropene	6.7	Not Detected	30	Not Detected
4-Methyl-2-pentanone	6.7	6.8	27	28
Toluene	6.7	11	25	41
trans-1,3-Dichloropropene	6.7	Not Detected	30	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG103

Lab ID#: 0804495A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042528**	**Date of Collection: 4/18/08**	
Dil. Factor:	**1.34**	**Date of Analysis: 4/25/08 05:11 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	6.7	Not Detected	36	Not Detected
Tetrachloroethene	6.7	Not Detected	45	Not Detected
2-Hexanone	27	Not Detected	110	Not Detected
Dibromochloromethane	6.7	Not Detected	57	Not Detected
1,2-Dibromoethane (EDB)	6.7	Not Detected	51	Not Detected
Chlorobenzene	6.7	Not Detected	31	Not Detected
Ethyl Benzene	6.7	Not Detected	29	Not Detected
m,p-Xylene	6.7	9.4	29	41
o-Xylene	6.7	Not Detected	29	Not Detected
Styrene	6.7	Not Detected	28	Not Detected
Bromoform	6.7	Not Detected	69	Not Detected
Cumene	6.7	Not Detected	33	Not Detected
1,1,2,2-Tetrachloroethane	6.7	Not Detected	46	Not Detected
Propylbenzene	6.7	Not Detected	33	Not Detected
4-Ethyltoluene	6.7	Not Detected	33	Not Detected
1,3,5-Trimethylbenzene	6.7	Not Detected	33	Not Detected
1,2,4-Trimethylbenzene	6.7	Not Detected	33	Not Detected
1,3-Dichlorobenzene	6.7	Not Detected	40	Not Detected
1,4-Dichlorobenzene	6.7	Not Detected	40	Not Detected
alpha-Chlorotoluene	6.7	Not Detected	35	Not Detected
1,2-Dichlorobenzene	6.7	Not Detected	40	Not Detected
1,2,4-Trichlorobenzene	27	Not Detected	200	Not Detected
Hexachlorobutadiene	27	Not Detected	280	Not Detected
1,1-Difluoroethane	27	Not Detected	72	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042528.d
Lab Smp Id: 0804495A-05A
Inj Date : 25-APR-2008 17:11
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,05699
Misc Info : 0.0" Hg -> 5psi, Erler
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 05-May-2008 12:16 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: TO15+152a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.946	7.921 (1.000)	130	269134	400.000		80.00- 120.00	100.00
7.918	7.921 (1.000)	128	214702			48.28- 108.28	79.78
7.918	7.921 (1.000)	49	330363			89.90- 149.90	122.75
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.771	9.746 (1.000)	114	1293190	400.000		80.00- 120.00	100.00
9.743	9.746 (1.000)	88	227470			0.00- 48.00	17.59
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.858	14.861 (1.000)	117	1007776	400.000		80.00- 120.00	100.00
14.858	14.861 (1.000)	82	678431			0.00- 30.00	67.32
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.997	8.972 (1.132)	65	608974	464.588	464.59	80.00- 120.00	100.00
8.997	8.972 (1.132)	67	271860			0.00- 30.00	44.64
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.536	12.511 (1.283)	98	1312710	407.096	407.10	80.00- 120.00	100.00
12.536	12.511 (1.283)	70	158127			0.00- 30.00	12.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.536	12.511 (1.283)	100	788424			0.00- 30.00	60.06
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.462	16.437 (1.108)	174	669650	416.895	416.90	80.00- 120.00	100.00
16.434	16.437 (1.106)	95	997883			117.94- 177.94	149.02
16.462	16.437 (1.108)	176	625554			67.07- 127.07	93.42
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.481	12.455 (1.277)	85	3203	5.07579	6.802	80.00- 120.00	100.00
12.481	12.455 (1.277)	43	18307			0.00- 30.00	571.47
12.536	12.455 (1.283)	58	16475			0.00- 30.00	514.29
108 Toluene					CAS #: 108-88-3		
12.646	12.649 (1.294)	91	42110	8.05064	10.788	80.00- 120.00	100.00
12.646	12.649 (1.294)	92	24974			27.71- 87.71	59.31
130 m,p-Xylene					CAS #: 108-38-3		
15.190	15.193 (1.022)	106	17664	7.05006	9.447	80.00- 120.00	100.00
15.190	15.193 (1.022)	91	38557			0.00- 30.00	218.27

Report Date: 05-May-2008 12:31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042528.d
Lab Smp Id: 0804495A-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 0.0" Hg -> 5psi, Erler

Calibration Date: 25-APR-2008
Calibration Time: 01:24
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	426794	256076	597512	269134	-36.94
92 1,4-Difluorobenze	1936987	1162192	2711782	1293190	-33.24
125 Chlorobenzene-d5	1655878	993527	2318229	1007776	-39.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.95	0.32
92 1,4-Difluorobenze	9.75	9.42	10.08	9.77	0.26
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804495A-05A
Level: LOW Operator: ac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15+152a.sub
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 0.0" Hg -> 5psi, Erler

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	400.00	464.59	116.15	70-130
$ 107 Toluene-d8	400.00	407.10	101.77	70-130
$ 138 Bromofluorobenzene	400.00	416.90	104.22	70-130

Data File: /chem/msdc.i/25Apr2008.b/c042528.d

Page 1

Date : 25-APR-2008 17:11

Client ID:

Instrument: msdc.i

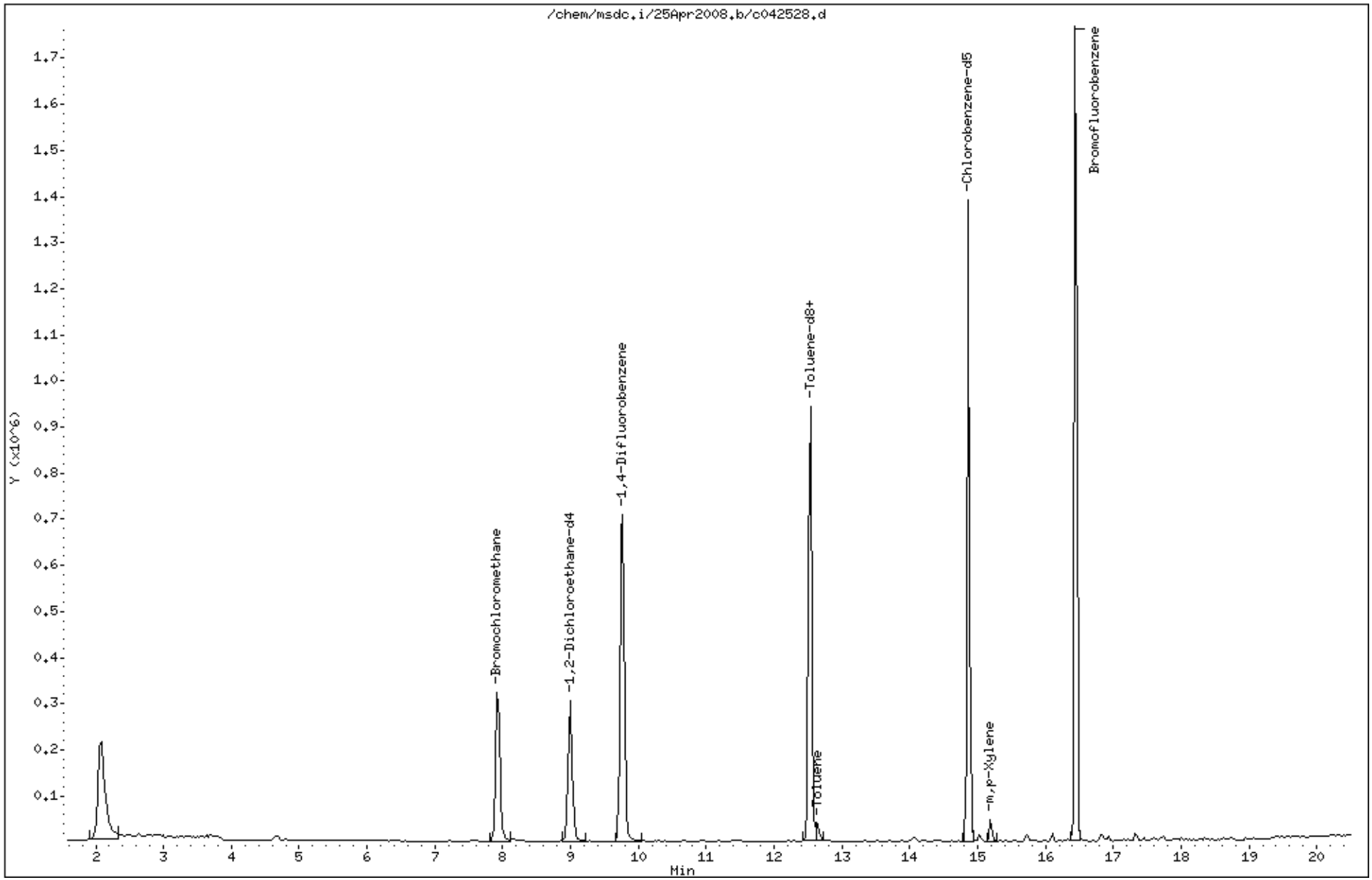
Sample Info: 50mL,05699

Operator: ac

Column phase: RTx-624

Column diameter: 0.53

0057



Data File: /chem/msdc.i/25Apr2008.b/c042528.d

Date : 25-APR-2008 17:11

Client ID:

Instrument: msdc.i

Sample Info: 50mL,05699

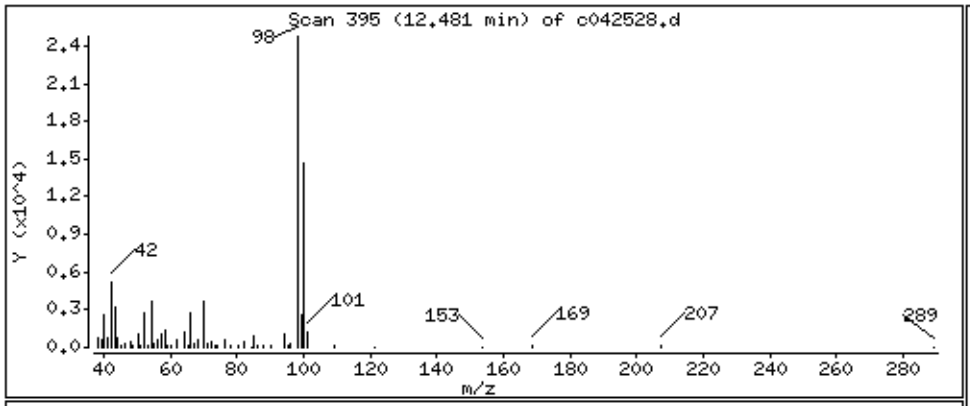
Operator: ac

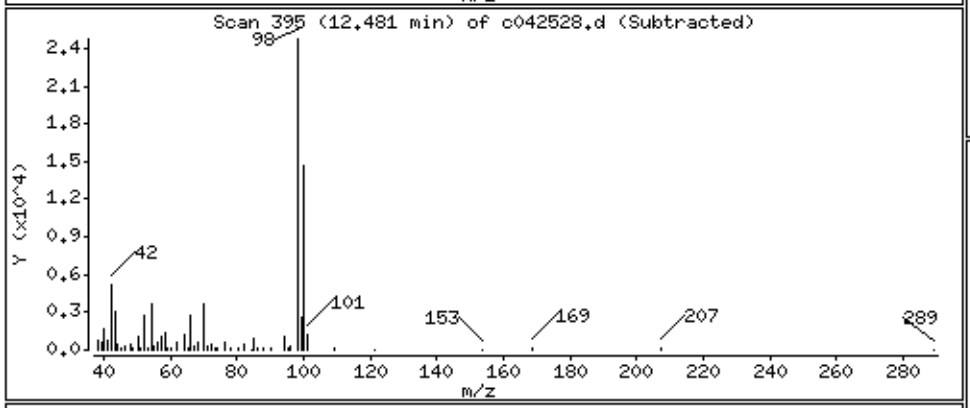
Column phase: RTx-624

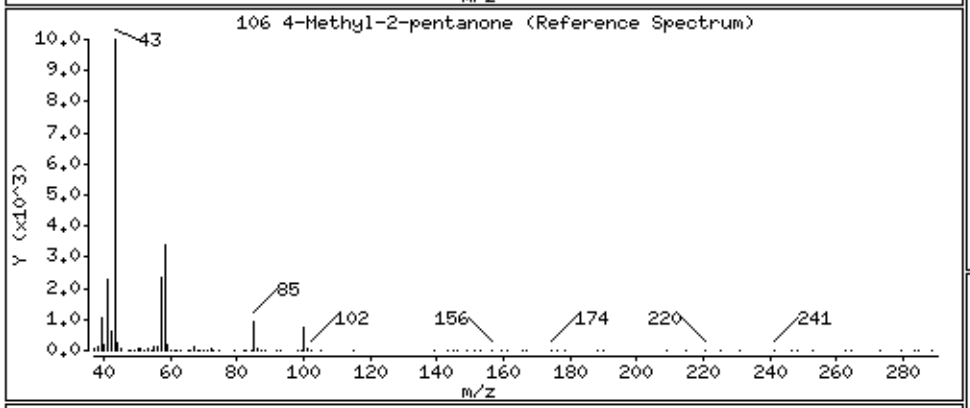
Column diameter: 0.53

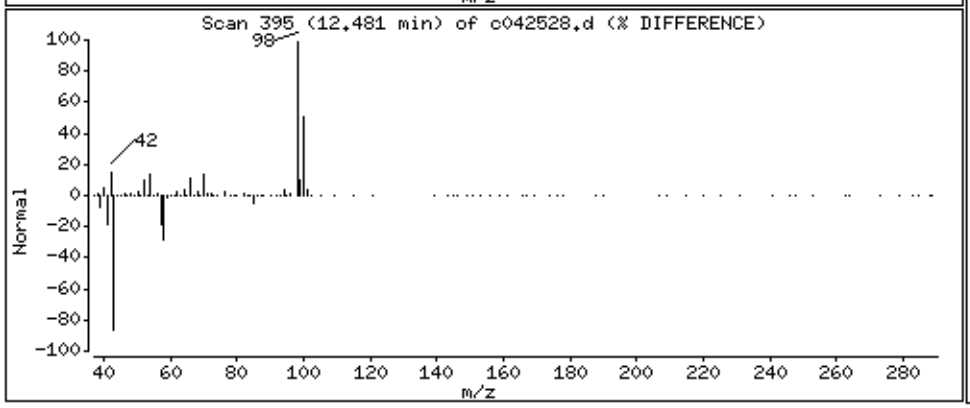
106 4-Methyl-2-pentanone

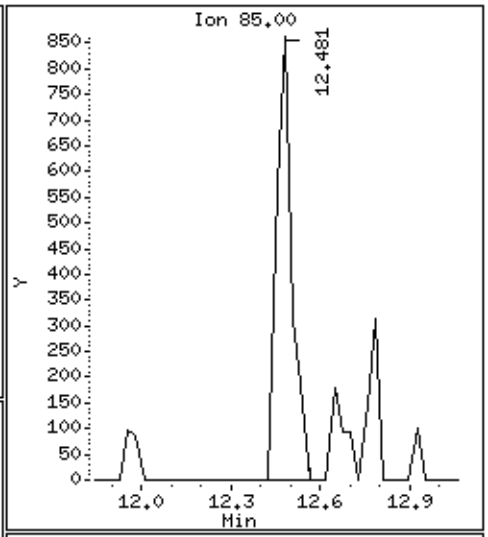
Concentration: 6.802 PPBV

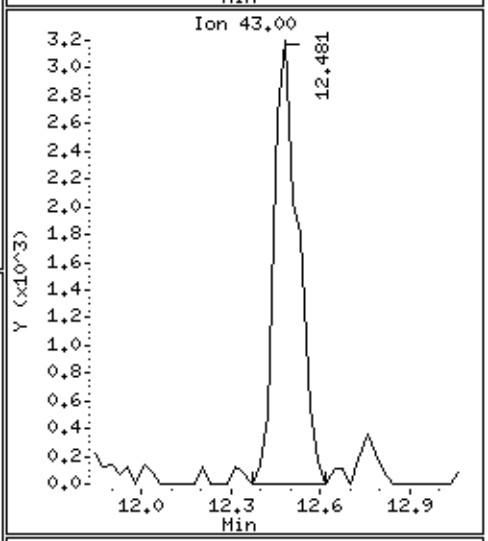


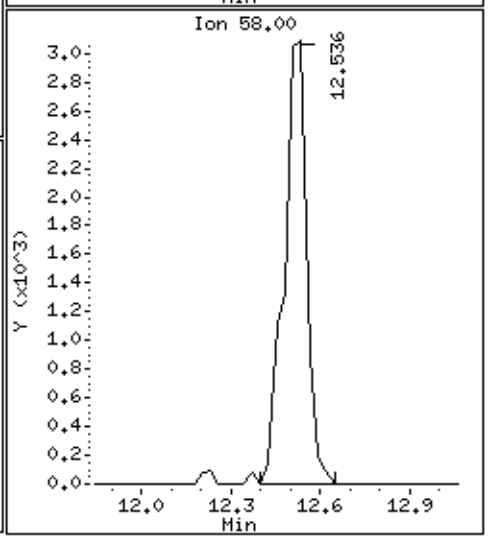












Data File: /chem/msdc.i/25Apr2008.b/c042528.d

Date : 25-APR-2008 17:11

Client ID:

Instrument: msdc.i

Sample Info: 50mL,05699

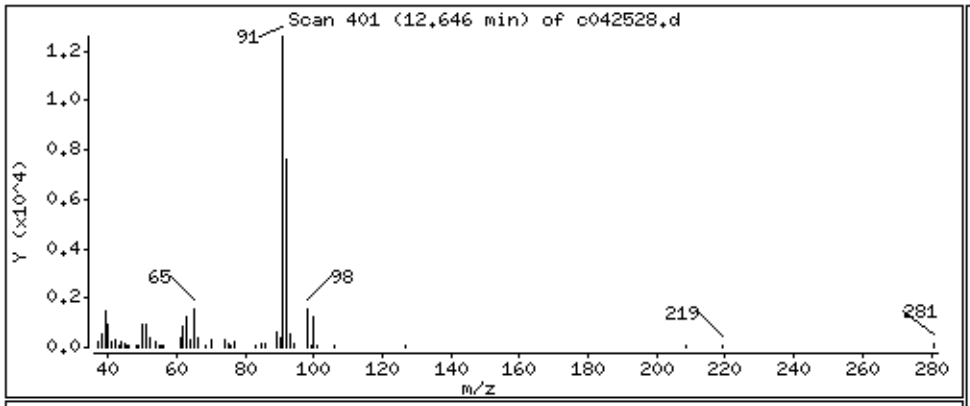
Operator: ac

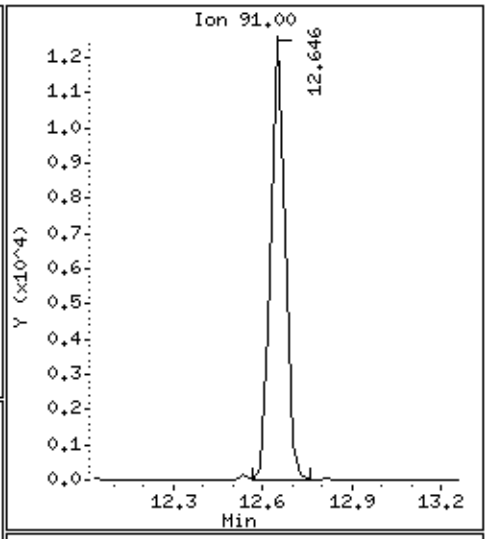
Column phase: RTx-624

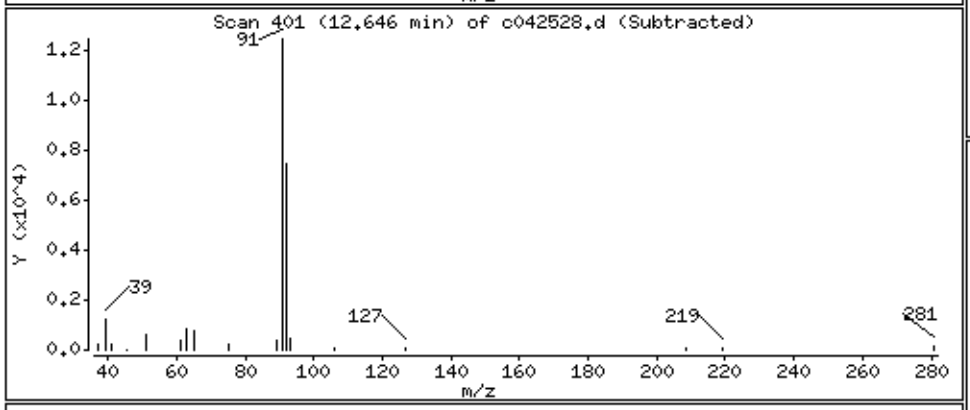
Column diameter: 0.53

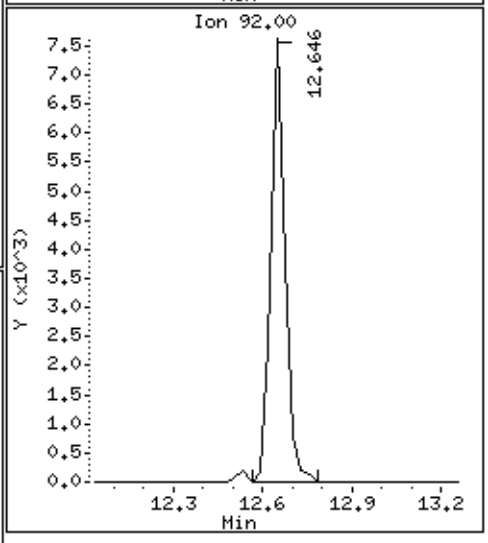
108 Toluene

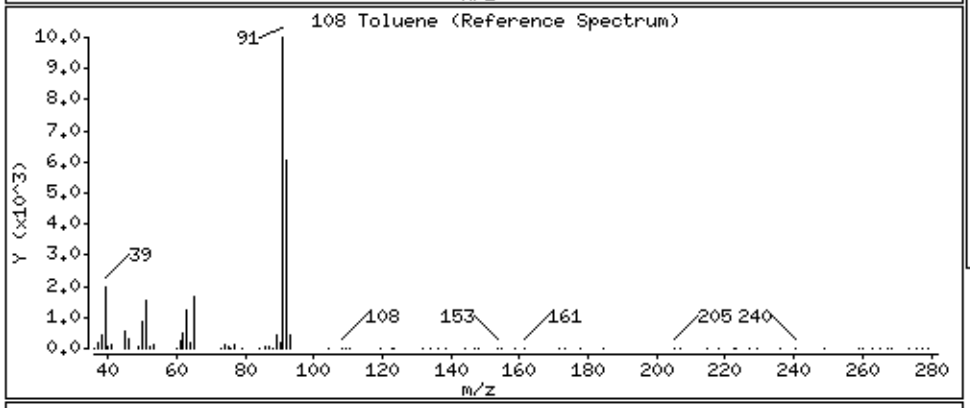
Concentration: 10.788 PPBV

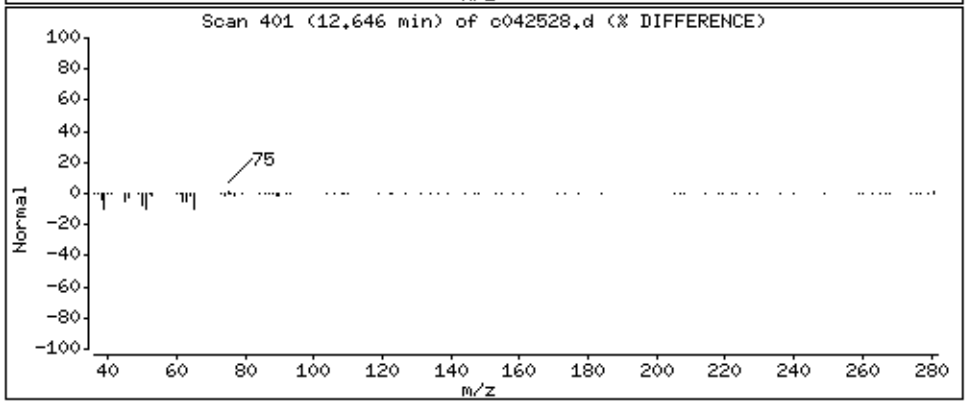












Data File: /chem/msdc.i/25Apr2008.b/c042528.d

Date : 25-APR-2008 17:11

Client ID:

Instrument: msdc.i

Sample Info: 50mL,05699

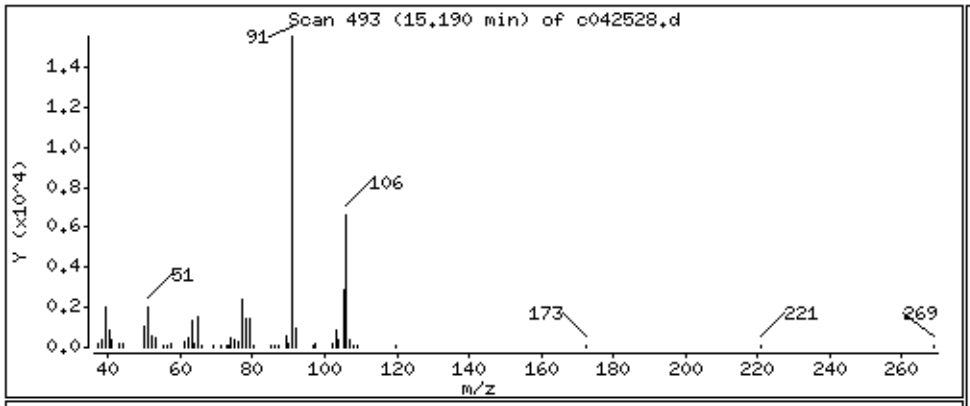
Operator: ac

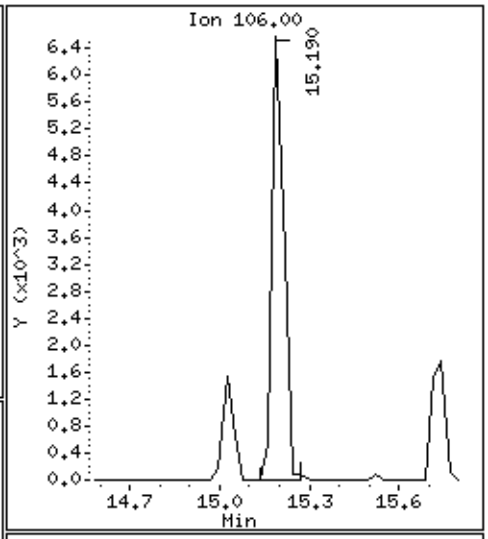
Column phase: RTx-624

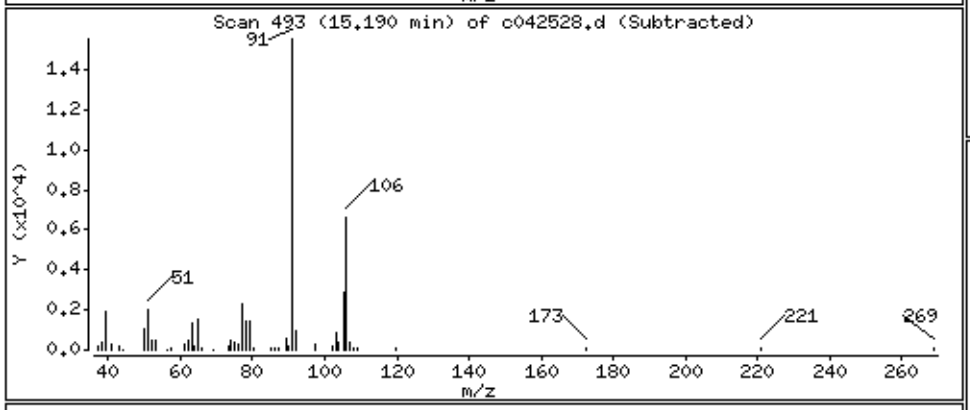
Column diameter: 0.53

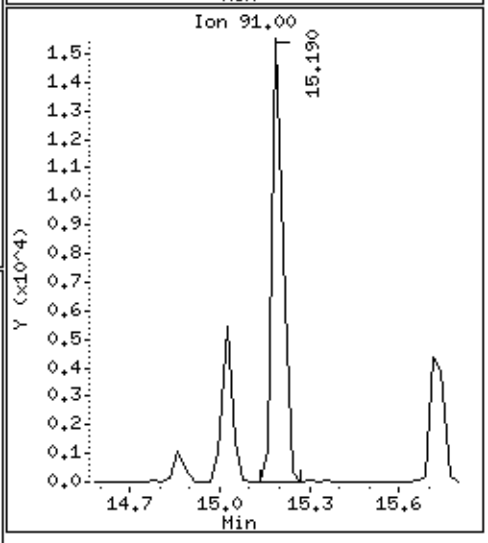
130 m,p-Xylene

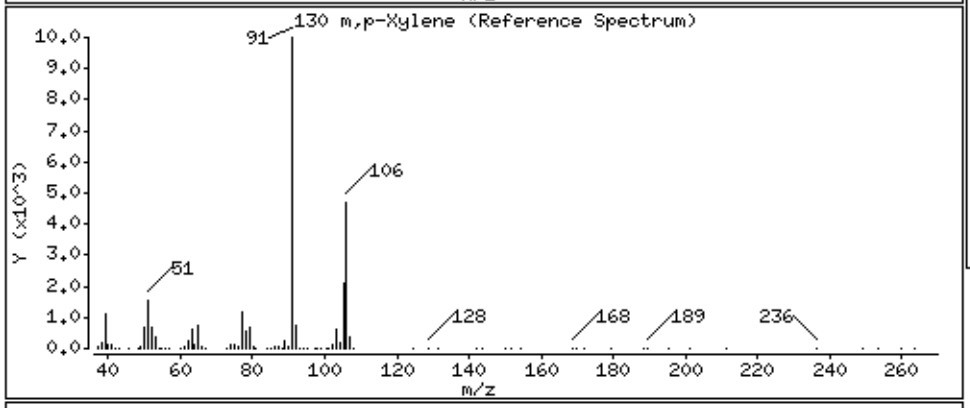
Concentration: 9.447 PPBV

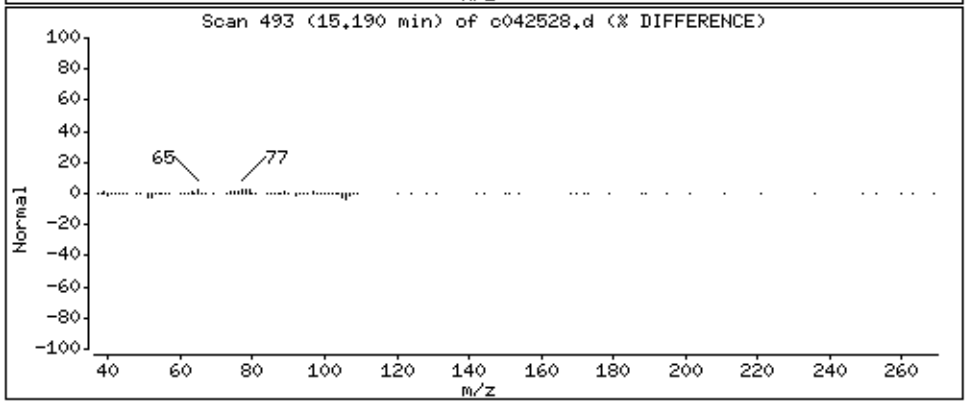












AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: 1040SG102

Lab ID#: 0804495A-06A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG102

Lab ID#: 0804495A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042530**	**Date of Collection:**	**4/18/08**
Dil. Factor:	**11.5**	**Date of Analysis:**	**4/25/08 06:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	58	Not Detected	280	Not Detected
Freon 114	58	Not Detected	400	Not Detected
Chloromethane	230	Not Detected	470	Not Detected
Vinyl Chloride	58	Not Detected	150	Not Detected
1,3-Butadiene	58	Not Detected	130	Not Detected
Bromomethane	58	Not Detected	220	Not Detected
Chloroethane	58	Not Detected	150	Not Detected
Freon 11	58	Not Detected	320	Not Detected
Ethanol	230	Not Detected	430	Not Detected
Freon 113	58	Not Detected	440	Not Detected
1,1-Dichloroethene	58	Not Detected	230	Not Detected
Acetone	230	Not Detected	550	Not Detected
2-Propanol	230	Not Detected	560	Not Detected
Carbon Disulfide	58	Not Detected	180	Not Detected
3-Chloropropene	230	Not Detected	720	Not Detected
Methylene Chloride	58	Not Detected	200	Not Detected
Methyl tert-butyl ether	58	Not Detected	210	Not Detected
trans-1,2-Dichloroethene	58	Not Detected	230	Not Detected
Hexane	58	Not Detected	200	Not Detected
1,1-Dichloroethane	58	Not Detected	230	Not Detected
2-Butanone (Methyl Ethyl Ketone)	58	Not Detected	170	Not Detected
cis-1,2-Dichloroethene	58	Not Detected	230	Not Detected
Tetrahydrofuran	58	Not Detected	170	Not Detected
Chloroform	58	Not Detected	280	Not Detected
1,1,1-Trichloroethane	58	Not Detected	310	Not Detected
Cyclohexane	58	Not Detected	200	Not Detected
Carbon Tetrachloride	58	Not Detected	360	Not Detected
2,2,4-Trimethylpentane	58	Not Detected	270	Not Detected
Benzene	58	Not Detected	180	Not Detected
1,2-Dichloroethane	58	Not Detected	230	Not Detected
Heptane	58	Not Detected	240	Not Detected
Trichloroethene	58	Not Detected	310	Not Detected
1,2-Dichloropropane	58	Not Detected	260	Not Detected
1,4-Dioxane	230	Not Detected	830	Not Detected
Bromodichloromethane	58	Not Detected	380	Not Detected
cis-1,3-Dichloropropene	58	Not Detected	260	Not Detected
4-Methyl-2-pentanone	58	Not Detected	240	Not Detected
Toluene	58	Not Detected	220	Not Detected
trans-1,3-Dichloropropene	58	Not Detected	260	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 1040SG102

Lab ID#: 0804495A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042530**	**Date of Collection: 4/18/08**	
Dil. Factor:	**11.5**	**Date of Analysis: 4/25/08 06:29 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	58	Not Detected	310	Not Detected
Tetrachloroethene	58	Not Detected	390	Not Detected
2-Hexanone	230	Not Detected	940	Not Detected
Dibromochloromethane	58	Not Detected	490	Not Detected
1,2-Dibromoethane (EDB)	58	Not Detected	440	Not Detected
Chlorobenzene	58	Not Detected	260	Not Detected
Ethyl Benzene	58	Not Detected	250	Not Detected
m,p-Xylene	58	Not Detected	250	Not Detected
o-Xylene	58	Not Detected	250	Not Detected
Styrene	58	Not Detected	240	Not Detected
Bromoform	58	Not Detected	590	Not Detected
Cumene	58	Not Detected	280	Not Detected
1,1,2,2-Tetrachloroethane	58	Not Detected	390	Not Detected
Propylbenzene	58	Not Detected	280	Not Detected
4-Ethyltoluene	58	Not Detected	280	Not Detected
1,3,5-Trimethylbenzene	58	Not Detected	280	Not Detected
1,2,4-Trimethylbenzene	58	Not Detected	280	Not Detected
1,3-Dichlorobenzene	58	Not Detected	340	Not Detected
1,4-Dichlorobenzene	58	Not Detected	340	Not Detected
alpha-Chlorotoluene	58	Not Detected	300	Not Detected
1,2-Dichlorobenzene	58	Not Detected	340	Not Detected
1,2,4-Trichlorobenzene	230	Not Detected	1700	Not Detected
Hexachlorobutadiene	230	Not Detected	2400	Not Detected
1,1-Difluoroethane	230	Not Detected	620	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042530.d
Lab Smp Id: 0804495A-06A
Inj Date : 25-APR-2008 18:29
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,34444
Misc Info : 26.5" Hg -> 5psi, Erler
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 05-May-2008 12:16 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1
Dil Factor: 11.50000
Integrator: HP RTE Compound Sublist: TO15+152a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.918	7.921 (1.000)	130	271823	400.000		80.00- 120.00	100.00
7.918	7.921 (1.000)	128	216039			48.28- 108.28	79.48
7.918	7.921 (1.000)	49	319018			89.90- 149.90	117.36
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.771	9.746 (1.000)	114	1246603	400.000		80.00- 120.00	100.00
9.771	9.746 (1.000)	88	229323			0.00- 48.00	18.40
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.858	14.861 (1.000)	117	1071032	400.000		80.00- 120.00	100.00
14.858	14.861 (1.000)	82	713535			0.00- 30.00	66.62
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.997	8.972 (1.136)	65	607345	458.762	458.76	80.00- 120.00	100.00
8.997	8.972 (1.136)	67	280712			0.00- 30.00	46.22
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.536	12.511 (1.283)	98	1258729	404.943	404.94	80.00- 120.00	100.00
12.536	12.511 (1.283)	70	161329			0.00- 30.00	12.82

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.536	12.511 (1.283)	100	769873			0.00- 30.00	61.16
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.462	16.437 (1.108)	174	666604	390.489	390.49	80.00- 120.00	100.00
16.434	16.437 (1.106)	95	1006248			117.94- 177.94	150.95
16.462	16.437 (1.108)	176	646019			67.07- 127.07	96.91

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042530.d
Lab Smp Id: 0804495A-06A
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 26.5" Hg -> 5psi, Erler

Calibration Date: 25-APR-2008
Calibration Time: 01:24
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	426794	256076	597512	271823	-36.31
92 1,4-Difluorobenze	1936987	1162192	2711782	1246603	-35.64
125 Chlorobenzene-d5	1655878	993527	2318229	1071032	-35.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	-0.03
92 1,4-Difluorobenze	9.75	9.42	10.08	9.77	0.26
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 05-May-2008 12:22

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804495A-06A
Level: LOW Operator: ac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15+152a.sub
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 26.5" Hg -> 5psi, Erler

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	400.00	458.76	114.69	70-130
$ 107 Toluene-d8	400.00	404.94	101.24	70-130
$ 138 Bromofluorobenzene	400.00	390.49	97.62	70-130

Data File: /chem/msdc.i/25Apr2008.b/c042530.d

Date : 25-APR-2008 18:29

Client ID:

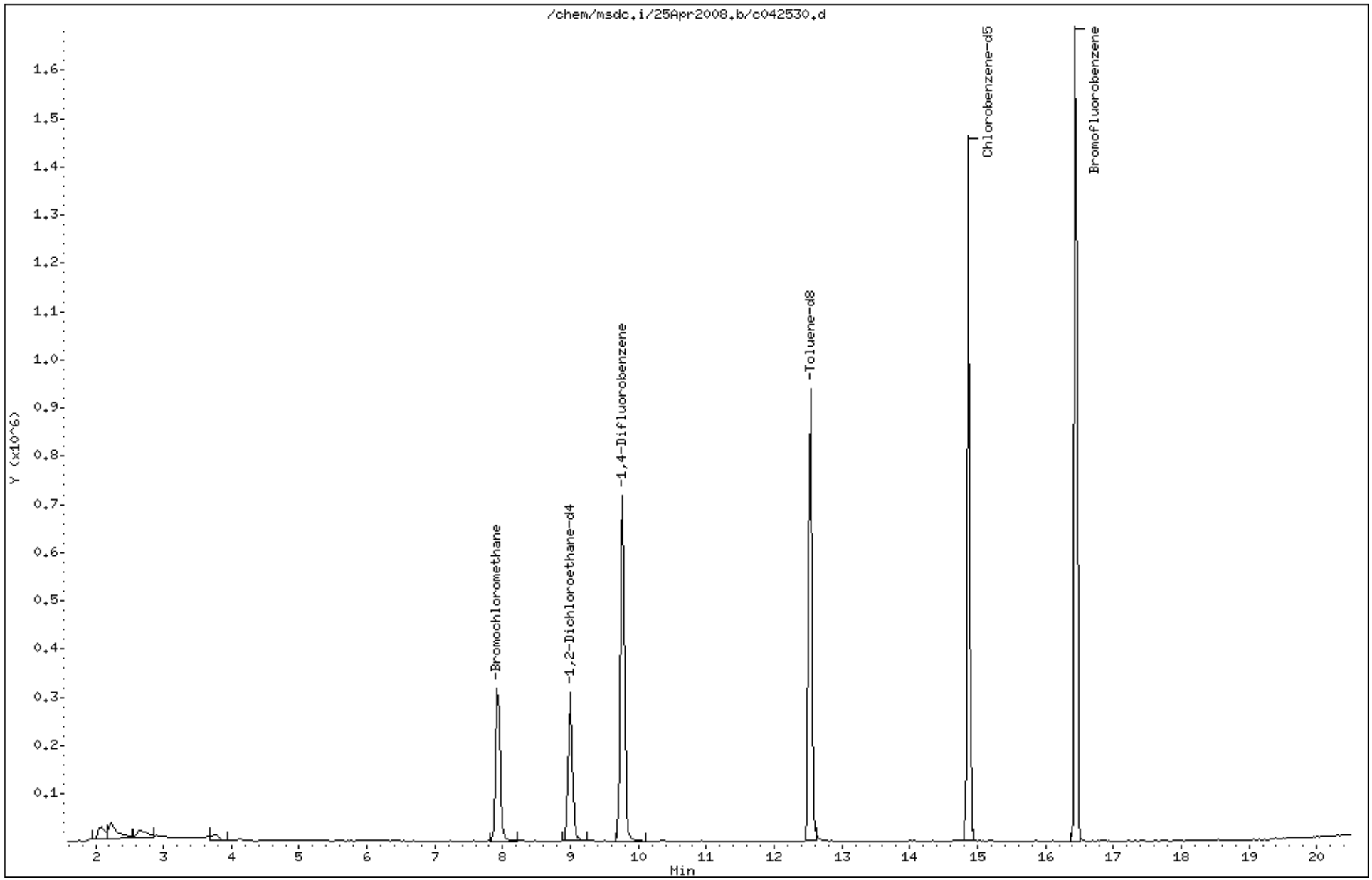
Sample Info: 50mL,34444

Column phase: RTx-624

Instrument: msdc.i

Operator: ac

Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: Dup-1-041808

Lab ID#: 0804495A-07A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Dup-1-041808

Lab ID#: 0804495A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042532**	**Date of Collection:**	**4/18/08**
Dil. Factor:	**1.49**	**Date of Analysis:**	**4/25/08 07:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	7.4	Not Detected	37	Not Detected
Freon 114	7.4	Not Detected	52	Not Detected
Chloromethane	30	Not Detected	62	Not Detected
Vinyl Chloride	7.4	Not Detected	19	Not Detected
1,3-Butadiene	7.4	Not Detected	16	Not Detected
Bromomethane	7.4	Not Detected	29	Not Detected
Chloroethane	7.4	Not Detected	20	Not Detected
Freon 11	7.4	Not Detected	42	Not Detected
Ethanol	30	Not Detected	56	Not Detected
Freon 113	7.4	Not Detected	57	Not Detected
1,1-Dichloroethene	7.4	Not Detected	30	Not Detected
Acetone	30	Not Detected	71	Not Detected
2-Propanol	30	Not Detected	73	Not Detected
Carbon Disulfide	7.4	Not Detected	23	Not Detected
3-Chloropropene	30	Not Detected	93	Not Detected
Methylene Chloride	7.4	Not Detected	26	Not Detected
Methyl tert-butyl ether	7.4	Not Detected	27	Not Detected
trans-1,2-Dichloroethene	7.4	Not Detected	30	Not Detected
Hexane	7.4	Not Detected	26	Not Detected
1,1-Dichloroethane	7.4	Not Detected	30	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.4	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	7.4	Not Detected	30	Not Detected
Tetrahydrofuran	7.4	Not Detected	22	Not Detected
Chloroform	7.4	Not Detected	36	Not Detected
1,1,1-Trichloroethane	7.4	Not Detected	41	Not Detected
Cyclohexane	7.4	Not Detected	26	Not Detected
Carbon Tetrachloride	7.4	Not Detected	47	Not Detected
2,2,4-Trimethylpentane	7.4	Not Detected	35	Not Detected
Benzene	7.4	Not Detected	24	Not Detected
1,2-Dichloroethane	7.4	Not Detected	30	Not Detected
Heptane	7.4	Not Detected	30	Not Detected
Trichloroethene	7.4	Not Detected	40	Not Detected
1,2-Dichloropropane	7.4	Not Detected	34	Not Detected
1,4-Dioxane	30	Not Detected	110	Not Detected
Bromodichloromethane	7.4	Not Detected	50	Not Detected
cis-1,3-Dichloropropene	7.4	Not Detected	34	Not Detected
4-Methyl-2-pentanone	7.4	Not Detected	30	Not Detected
Toluene	7.4	Not Detected	28	Not Detected
trans-1,3-Dichloropropene	7.4	Not Detected	34	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Dup-1-041808

Lab ID#: 0804495A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042532**	**Date of Collection: 4/18/08**	
Dil. Factor:	**1.49**	**Date of Analysis: 4/25/08 07:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	7.4	Not Detected	41	Not Detected
Tetrachloroethene	7.4	Not Detected	50	Not Detected
2-Hexanone	30	Not Detected	120	Not Detected
Dibromochloromethane	7.4	Not Detected	63	Not Detected
1,2-Dibromoethane (EDB)	7.4	Not Detected	57	Not Detected
Chlorobenzene	7.4	Not Detected	34	Not Detected
Ethyl Benzene	7.4	Not Detected	32	Not Detected
m,p-Xylene	7.4	Not Detected	32	Not Detected
o-Xylene	7.4	Not Detected	32	Not Detected
Styrene	7.4	Not Detected	32	Not Detected
Bromoform	7.4	Not Detected	77	Not Detected
Cumene	7.4	Not Detected	37	Not Detected
1,1,2,2-Tetrachloroethane	7.4	Not Detected	51	Not Detected
Propylbenzene	7.4	Not Detected	37	Not Detected
4-Ethyltoluene	7.4	Not Detected	37	Not Detected
1,3,5-Trimethylbenzene	7.4	Not Detected	37	Not Detected
1,2,4-Trimethylbenzene	7.4	Not Detected	37	Not Detected
1,3-Dichlorobenzene	7.4	Not Detected	45	Not Detected
1,4-Dichlorobenzene	7.4	Not Detected	45	Not Detected
alpha-Chlorotoluene	7.4	Not Detected	38	Not Detected
1,2-Dichlorobenzene	7.4	Not Detected	45	Not Detected
1,2,4-Trichlorobenzene	30	Not Detected	220	Not Detected
Hexachlorobutadiene	30	Not Detected	320	Not Detected
1,1-Difluoroethane	30	Not Detected	80	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042532.d
Lab Smp Id: 0804495A-07A
Inj Date : 25-APR-2008 19:24
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,4243
Misc Info : 3.0" Hg -> 5psi, Erler
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 05-May-2008 12:16 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1
Dil Factor: 1.49000
Integrator: HP RTE Compound Sublist: TO15+152a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.918	7.921 (1.000)	130	261486	400.000		80.00- 120.00	100.00
7.946	7.921 (1.000)	128	209201			48.28- 108.28	80.00
7.918	7.921 (1.000)	49	305884			89.90- 149.90	116.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.771	9.746 (1.000)	114	1160223	400.000		80.00- 120.00	100.00
9.771	9.746 (1.000)	88	213960			0.00- 48.00	18.44
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.858	14.861 (1.000)	117	1015202	400.000		80.00- 120.00	100.00
14.858	14.861 (1.000)	82	678764			0.00- 30.00	66.86
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.997	8.972 (1.136)	65	602167	472.831	472.83	80.00- 120.00	100.00
8.997	8.972 (1.136)	67	272368			0.00- 30.00	45.23
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.536	12.511 (1.283)	98	1114683	385.301	385.30	80.00- 120.00	100.00
12.536	12.511 (1.283)	70	153636			0.00- 30.00	13.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.536	12.511 (1.283)	100	712515			0.00- 30.00	63.92
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.462	16.437 (1.108)	174	655973	405.393	405.39	80.00- 120.00	100.00
16.434	16.437 (1.106)	95	968847			117.94- 177.94	147.70
16.462	16.437 (1.108)	176	623842			67.07- 127.07	95.10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042532.d
Lab Smp Id: 0804495A-07A
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 3.0" Hg -> 5psi, Erler

Calibration Date: 25-APR-2008
Calibration Time: 01:24
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	426794	256076	597512	261486	-38.73
92 1,4-Difluorobenze	1936987	1162192	2711782	1160223	-40.10 <-
125 Chlorobenzene-d5	1655878	993527	2318229	1015202	-38.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	-0.03
92 1,4-Difluorobenze	9.75	9.42	10.08	9.77	0.26
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 05-May-2008 12:32

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804495A-07A
Level: LOW Operator: ac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15+152a.sub
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: 3.0" Hg -> 5psi, Erler

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	400.00	472.83	118.21	70-130
$ 107 Toluene-d8	400.00	385.30	96.33	70-130
$ 138 Bromofluorobenzene	400.00	405.39	101.35	70-130

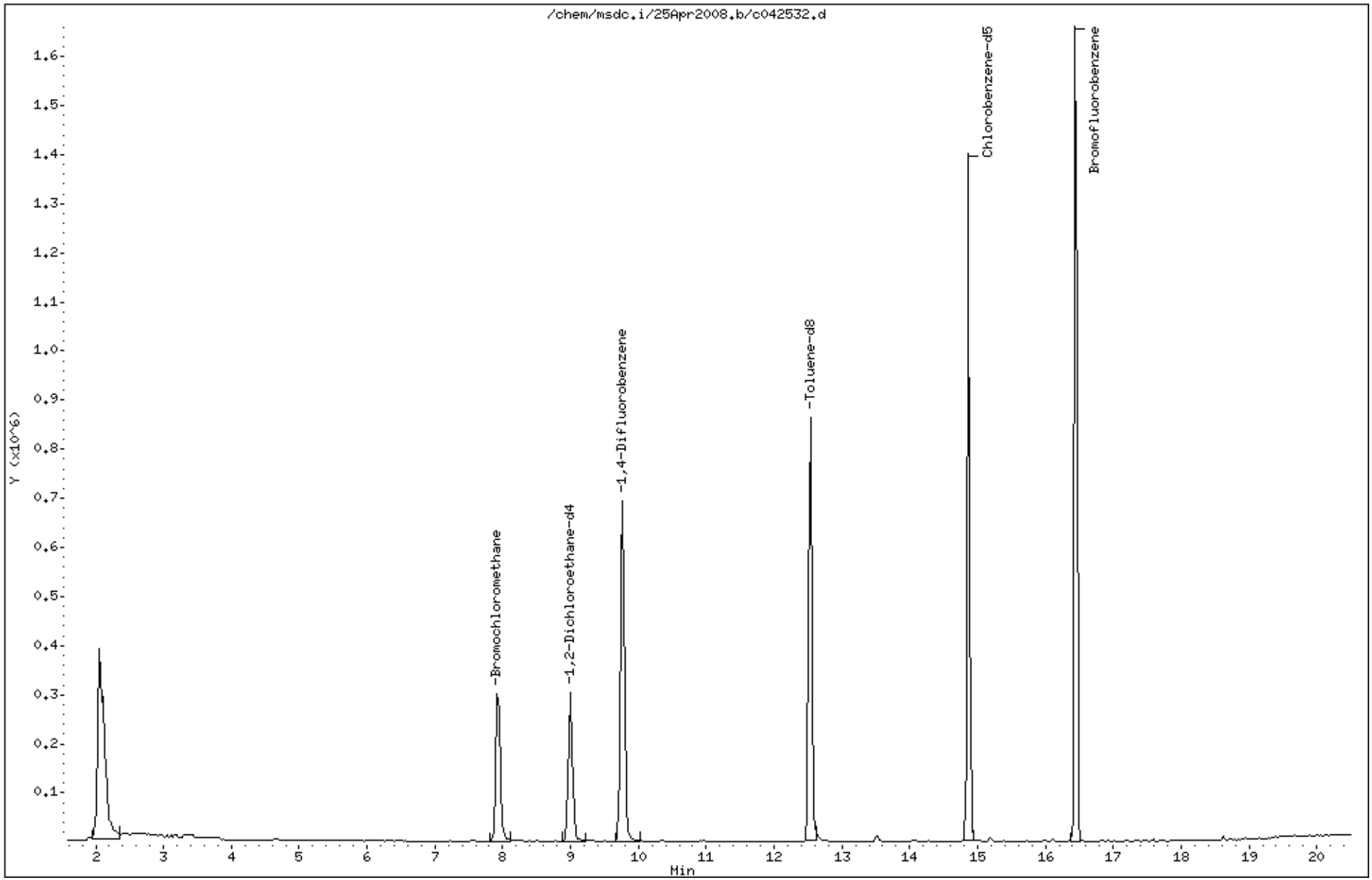
0076

Data File: /chem/msdc.i/25Apr2008.b/c042532.d
Date : 25-APR-2008 19:24
Client ID:
Sample Info: 50mL,4243

Instrument: msdc.i

Operator: ac
Column diameter: 0.53

Column phase: RTx-624



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804495A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042507a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/08 03:31 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804495A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042507a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/08 03:31 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
1,1-Difluoroethane	20	Not Detected	54	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042507a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 25-APR-2008 03:31
Operator : JP Inst ID: msdc.i
Smp Info : 50mL,4074
Misc Info : Lab Blank
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 28-Apr-2008 09:44 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ERM7582.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	416354	400.000		80.00- 120.00	100.00
7.921	7.921 (1.000)	128	327496			48.28- 108.28	78.66
7.921	7.921 (1.000)	49	482338			89.90- 149.90	115.85
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1868927	400.000		80.00- 120.00	100.00
9.746	9.746 (1.000)	88	329007			0.00- 48.00	17.60
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1569870	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	988501			0.00- 30.00	62.97
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.971	8.972 (1.133)	65	763430	376.482	376.48	80.00- 120.00	100.00
8.971	8.972 (1.133)	67	357934			0.00- 30.00	46.88
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.510	12.511 (1.284)	98	1846810	396.296	396.30	80.00- 120.00	100.00
12.510	12.511 (1.284)	70	216891			0.00- 30.00	11.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.510	12.511 (1.284)	100	1154111			0.00- 30.00	62.49
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	970981	388.052	388.05	80.00- 120.00	100.00
16.437	16.437 (1.106)	95	1446764			117.94- 177.94	149.00
16.437	16.437 (1.106)	176	930237			67.07- 127.07	95.80

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042507a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: JP
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: Lab Blank

Calibration Date: 25-APR-2008
Calibration Time: 01:24
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	426794	256076	597512	416354	-2.45
92 1,4-Difluorobenze	1936987	1162192	2711782	1868927	-3.51
125 Chlorobenzene-d5	1655878	993527	2318229	1569870	-5.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Apr-2008 13:08

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: JP
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: ERM7582.sub
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: Lab Blank

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	400.00	376.48	94.12	70-130
$ 107 Toluene-d8	400.00	396.30	99.07	70-130
$ 138 Bromofluorobenzene	400.00	388.05	97.01	70-130

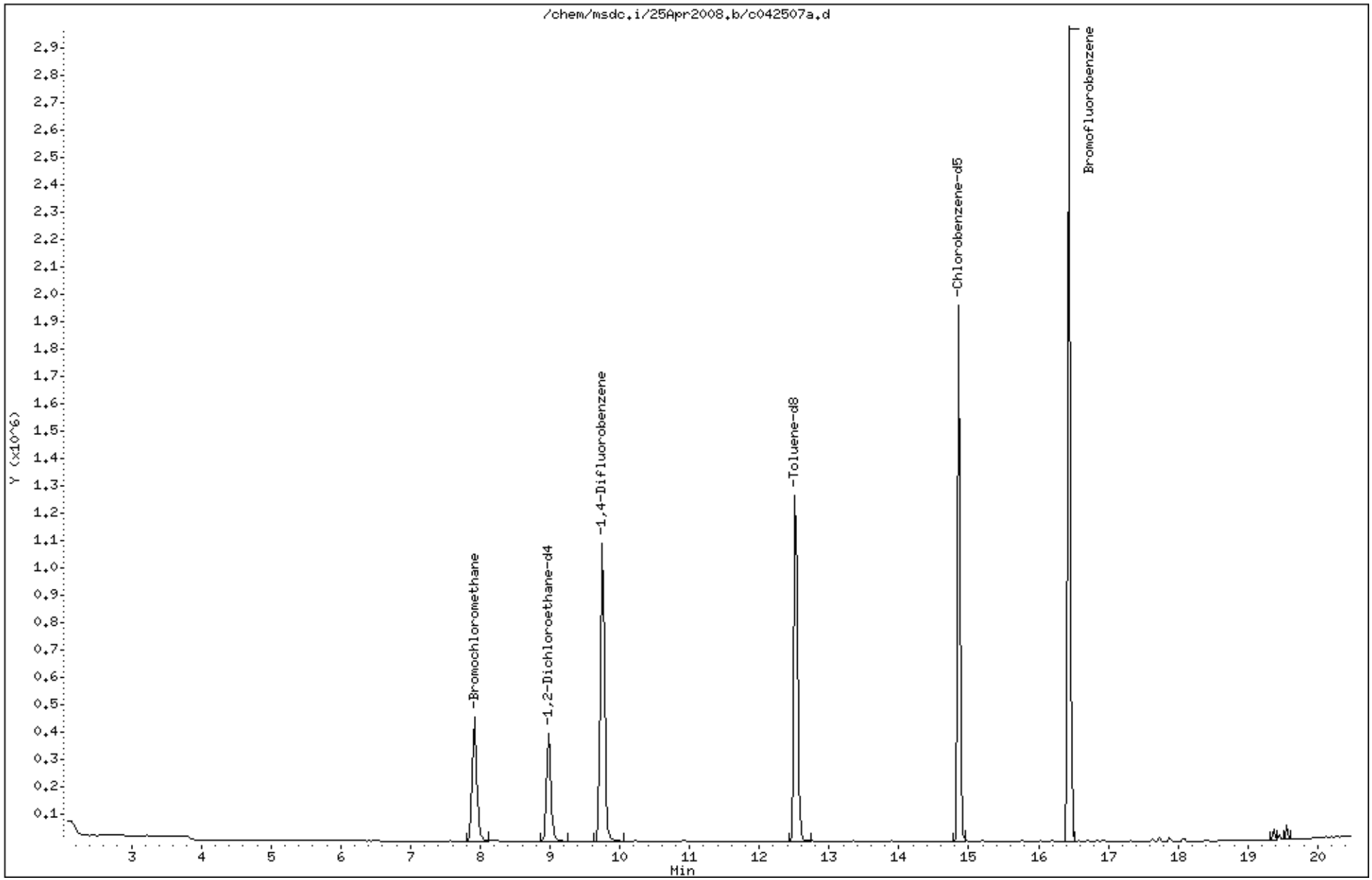
0084

Data File: /chem/msdc.i/25Apr2008.b/c042507a.d
Date : 25-APR-2008 03:31
Client ID: Lab Blank
Sample Info: 50mL,4074

Instrument: msdc.i

Operator: JP
Column diameter: 0.53

Column phase: RTx-624



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0804495A

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	1040SG101	112		106		100				0
02	1040SG106	111		96		100				0
03	1040SG105	112		103		100				0
04	1040SG104	112		102		101				0
05	1040SG103	116		102		104				0
06	1040SG102	115		101		98				0
07	Dup-1-041808	118		96		101				0
08	Lab Blank	94		99		97				0
09	CCV	99		98		107				0
10	LCS	97		101		100				0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

1,2-Dichloroethane-d4 70 - 130
Toluene-d8 70 - 130
4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0804495A

Lab File ID: c042503.d | Date Analyzed: 04/25/2008

Instrument ID: msdc.i | Time Analyzed: 01:24 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1655878		14.86		1936987		9.75		426794		7.92	
	UPPER LIMIT	2318229		15.19		2711782		10.08		597512		08.25	
	LOWER LIMIT	993527		14.53		1162192		09.42		256076		07.59	
	CLIENT SAMPLE NO												
01	1040SG101	1111627		14.86		1256380		9.74		267271		7.92	
02	1040SG106	1087177		14.86		1296874		9.74		279881		7.92	
03	1040SG105	1089307		14.86		1264220		9.77		277512		7.92	
04	1040SG104	1083557		14.86		1289907		9.77		281243		7.92	
05	1040SG103	1007776		14.86		1293190		9.77		269134		7.95	
06	1040SG102	1071032		14.86		1246603		9.77		271823		7.92	
07	Dup-1-041808	1015202		14.86		1160223	*	9.77		261486		7.92	
08	Lab Blank	1569870		14.86		1868927		9.75		416354		7.92	
09	CCV	1655878		14.86		1936987		9.75		426794		7.92	
10	LCS	1593893		14.86		1866312		9.75		419330		7.92	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'Area Upper Limit=+40% of internal standard area'

'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdc.i/24Apr2008.b/c042412.d
Level 2: /chem/msdc.i/24Apr2008.b/c042424.d
Level 3: /chem/msdc.i/24Apr2008.b/c042414.d
Level 4: /chem/msdc.i/24Apr2008.b/c042415.d
Level 5: /chem/msdc.i/24Apr2008.b/c042416.d
Level 6: /chem/msdc.i/24Apr2008.b/c042417.d
Level 7: /chem/msdc.i/24Apr2008.b/c042419.d
Level 8: /chem/msdc.i/24Apr2008.b/c042420.d
Level 9: /chem/msdc.i/24Apr2008.b/c042421.d

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9	___ RRF	% RSD
1 Freon134a	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2 Propane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
3 Freon 152a	*****	*****	1.35834	*****	1.01284	0.92098	*****	*****	*****	1.09739	21.015
4 Freon 22	*****	*****	0.52278	*****	0.41825	0.42748	*****	*****	*****	0.45617	12.687
5 Freon142b	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
6 Propylene	*****	*****	0.91015	1.22742	1.15014	1.10834	1.12198	1.10952	0.99939	1.08956	9.538
7 Isobutane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
8 Dichlorodifluoromethane/Fr12	+++++	4.20137	5.02849	5.27557	4.92641	5.07444		
	5.00977	4.81190	4.44845				4.84705	7.307
9 Freon 114	+++++	3.47158	3.44908	4.04168	3.73481	3.48371		
	3.81101	3.64757	3.20883				3.60603	7.152
10 Chloromethane	+++++	+++++	1.60301	2.09394	1.89382	1.84832		
	1.96992	1.81922	1.43589				1.80916	12.310
11 Butane	+++++	+++++	0.24652	0.55603	0.39071	0.40100		
	0.36048	0.34315	0.30176				0.37138	26.175
12 1,3-Butadiene	+++++	0.86203	0.64413	1.06954	0.99000	1.12427		
	1.25253	1.07492	1.08101				1.01230	18.322
13 Vinyl Chloride	+++++	1.51233	1.54825	2.07306	1.88910	1.78913		
	1.90002	1.78365	1.57846				1.75925	11.263
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
15 Bromomethane	+++++	0.98146	0.24575	1.24870	1.21054	1.22263		
	1.47639	1.50335	1.36733				1.15702	34.924 <-
16 Dichlorofluoromethane/Fr21	+++++	+++++	2.74964	+++++	2.88888	2.85366		
	+++++	+++++	+++++				2.83073	2.558
17 Isopentane	+++++	+++++	1.38901	2.24161	1.54554	1.36299		
	1.59529	1.46541	1.25966				1.55136	20.932

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
18 Pentane	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####	#####
19 Chloroethane	##### / 0.96791	0.50489 / 0.98468	0.62961 / 0.73650	0.69476	0.83132	0.84581	0.77443	21.351
20 Trichlorofluoromethane/Fr11	##### / 6.53076	4.04452 / 6.12475	6.13889 / 5.58290	6.84677	6.22572	5.86921	5.92044	14.345
21 Dimethyl Ether	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####	#####
22 Freon123a	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####	#####
23 Freon 13	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####	#####
24 Freon123	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####	#####
25 Acrolein	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####	#####
26 Ethanol	##### / 0.62893	##### / 0.59992	0.50424 / 0.56336	0.69499	0.65043	0.57865	0.60293	10.338
27 Isobutylene	##### / #####	##### / #####	##### / #####	#####	#####	#####	#####	#####

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
28 Acetaldehyde	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
29 Freon143a	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
30 Freon 113	+++++ / 2.97287	1.74364 / 2.78526	2.34114 / 2.56705	3.15567	2.90782	2.62085	2.63679	16.765
31 1,1-Dichloroethene	+++++ / 3.99399	3.41360 / 3.79732	3.55711 / 3.42182	3.99966	3.84318	3.66913	3.71198	6.325
32 Acetone	+++++ / 0.90968	+++++ / 0.83814	0.82715 / 0.76308	0.96901	0.95814	0.85562	0.87441	8.546
33 Methyl Acetate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
34 Acetonitrile	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
35 Carbon Disulfide	+++++ / 5.48386	4.18858 / 4.88909	4.51561 / 4.45408	5.68338	5.24625	4.76183	4.90283	10.755
36 2-Propanol	+++++ / 3.29423	+++++ / 2.99675	2.37607 / 2.70263	3.06148	3.00893	2.81281	2.89327	10.209
37 tert-Butyl-Alcohol	+++++ / 2.24684	+++++ / +++++	2.20453 / +++++	2.94852	2.48063	2.02788	2.38168	14.931

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
38 3-Chloropropene	+++++	+++++	0.86923	0.99402	0.97539	1.07672		
	1.11116	1.35032	1.37701				1.10769	17.274
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
43 Methylene Chloride	+++++	2.85947	1.95980	2.16524	1.97218	1.86962		
	2.04444	1.91173	1.74676				2.06616	16.608
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
46 MTBE	+++++	1.87607	2.75279	3.37106	2.84751	2.38860		
	2.51798	1.89302	1.27698				2.36550	27.973
47 trans-1,2-Dichloroethene	+++++	1.90496	1.98600	2.23293	2.10063	1.97108		
	2.20457	2.05728	1.92786				2.04816	6.015

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
48 Propanal	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++ / +++++	+++++ / +++++	4.89466 / +++++	+++++	5.44073	5.41981	5.25173	5.892
50 Bromoethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
51 Hexane	+++++ / 3.25574	2.72084 / 3.05350	2.61961 / 2.78993	4.19563	3.17088	3.03290	3.10488	15.904
52 Chloroprene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
54 2,3-Dimethylbutane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
55 1,1-Dichloroethane	+++++ / 3.99741	2.75981 / 3.75214	3.52826 / 3.43680	3.86055	3.86550	3.57176	3.59653	10.809
56 Vinyl Acetate	+++++ / 0.59945	+++++ / 0.56416	0.53402 / 0.52191	0.55783	0.54460	0.51664	0.54837	5.198
57 Ethyl-tert-butyl Ether	+++++ / +++++	+++++ / +++++	3.93739 / +++++	+++++	4.92412	4.63165	4.49772	11.268

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
58 1-Hexene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
59 1,3-Dichloropropane	+++++ / 0.13730	+++++ / +++++	0.11812 / +++++	+++++	0.07498	0.07742	0.10196	30.179
60 2,2-Dichloropropane	+++++ / 1.39339	+++++ / +++++	1.20028 / +++++	+++++	2.58801	2.22649	1.85204	35.775
61 Ethyl Acetate	+++++ / +++++	+++++ / +++++	0.37536 / +++++	+++++	0.45979	0.47088	0.43534	12.001
62 Methyl Acrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
63 2,4-Dimethylpentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++ / +++++	+++++ / +++++	0.21206 / +++++	+++++	0.27978	0.26784	0.25323	14.276
65 Butanal	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++ / 2.99041	2.59501 / 2.81991	2.75153 / 2.63906	3.08514	2.83179	2.66512	2.79725	6.153
67 2-Butanone	+++++ / 1.06846	0.83682 / 1.02268	0.93012 / 0.95226	1.04653	0.99627	0.91820	0.97142	7.909

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
68 2-Butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
69 3-Methyl-1-Hexene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
70 Tetrahydrofuran	+++++ / 2.04955	1.61393 / 1.93230	1.80939 / 1.79750	2.02121	1.88120	1.81506	1.86502	7.486
72 Chloroform	+++++ / 5.03626	4.19730 / 4.73904	4.44579 / 4.47273	5.08132	4.72369	4.47163	4.64597	6.601
73 1,1-Dichloropropene	+++++ / 0.99700	+++++ / +++++	0.88012 / +++++	+++++	1.00573	0.93309	0.95398	6.178
74 Cyclohexane	+++++ / 2.88024	2.47790 / 2.41902	2.65145 / 1.98939	3.04903	2.89242	2.63716	2.62458	12.762
75 1,1,1-Trichloroethane	+++++ / 5.46344	2.89805 / 4.75312	4.55590 / 4.25220	5.50614	5.09901	4.63450	4.64530	17.907
76 Isobutanol	+++++ / +++++	+++++ / +++++	0.26235 / +++++	+++++	0.30184	0.28799	0.28406	7.054
77 Carbon Tetrachloride	+++++ / 6.06308	3.88107 / 5.48719	4.79775 / 4.91814	5.80938	5.35557	5.15853	5.18384	13.050
78 tert-amyl-Methyl Ether	+++++ / +++++	+++++ / +++++	4.92691 / +++++	+++++	4.76085	5.09759	4.92845	3.416

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
79 2,3-Dimethylpentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
80 2,2,4-Trimethylpentane	+++++ / 9.65662	7.68594 / 9.05863	8.38290 / 8.16817	9.63170	9.04497	8.53288	8.77022	7.983
81 Benzene	1.20385 / 1.43593	1.22028 / 1.33019	1.26844 / 1.32509	1.46006	1.34687	1.23470	1.31393	6.962
82 1-Methoxy-2-Propanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
83 2,3,4-Trimethylpentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
85 1,2-Dichloroethane	+++++ / 0.85351	0.64398 / 0.78391	0.75643 / 0.77592	0.88112	0.80391	0.74540	0.78052	9.250
86 2-Pentanone	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
87 Pentanal	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
88 Ethyl Acrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
89 Octane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
90 Heptane	+++++	0.19754	0.15896	0.23918	0.16783	0.15937		
	0.17643	0.16349	0.15816				0.17762	15.844
91 1-Butanol	+++++	+++++	0.17695	+++++	0.25540	0.26615		
	+++++	+++++	+++++				0.23283	20.914
93 Trichloroethene	+++++	0.59798	0.60893	0.70143	0.64185	0.58674		
	0.68003	0.63561	0.64238				0.63687	6.194
94 Methyl Cyclohexane	+++++	0.74729	0.77317	0.92473	0.83877	0.78712		
	0.90165	0.84880	0.84762				0.83364	7.401
95 Dibromomethane	+++++	+++++	0.40396	+++++	0.44261	0.43029		
	0.29324	+++++	+++++				0.39252	17.356
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
98 1,2-Dichloropropane	+++++	0.37682	0.40187	0.46342	0.42670	0.39264		
	0.45815	0.42506	0.42598				0.42133	7.162
99 1,4-Dioxane	+++++	+++++	0.24288	0.32018	0.29561	0.28362		
	0.32758	0.30713	0.31132				0.29833	9.557
100 Bromodichloromethane	+++++	0.87725	0.99041	1.16744	1.10107	1.04428		
	1.22421	1.16898	1.17179				1.09318	10.615

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.62264	0.66160	0.77780	0.74530	0.70647		
	0.82682	0.79672	0.81135				0.74359	9.940
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.18648	0.17692	0.19662	0.19423	0.18377		
	0.21428	0.20350	0.20570				0.19519	6.385
108 Toluene	+++++	1.47413	1.58418	1.80162	1.63496	1.52086		
	1.77423	1.71573	1.43751				1.61790	8.482
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
112 Alphamethylstyrene	*****	*****	*****	*****	*****	*****		
	*****	*****	*****				*****	*****
113 trans-1,3-Dichloropropene	*****	0.82777	0.90893	1.02384	0.95902	0.94136		
	1.09215	1.06337	1.09778				0.98928	9.725
114 1,1,2-Trichloroethane	*****	0.58136	0.60741	0.67444	0.61403	0.57722		
	0.67154	0.64254	0.66753				0.62951	6.349
115 D-Limonene	*****	*****	*****	*****	*****	*****		
	*****	*****	*****				*****	*****
116 Tetrachloroethene	*****	0.84865	0.87311	0.96702	0.86969	0.80857		
	0.93141	0.89203	0.94927				0.89247	6.012
117 Bis(2-chloroethyl) ether	*****	*****	*****	*****	*****	*****		
	*****	*****	*****				*****	*****
118 Butyl Acetate	*****	*****	0.41250	*****	0.42934	0.40997		
	*****	*****	*****				0.41727	2.524
119 2-Hexanone	*****	*****	0.52516	0.56092	0.54355	0.50041		
	0.59340	0.56567	0.57118				0.55147	5.638
120 Dibromochloromethane	*****	0.97135	1.09990	1.25814	1.19497	1.13020		
	1.36639	1.31574	1.16888				1.18820	10.623
121 Undecane	*****	*****	*****	*****	*****	*****		
	*****	*****	*****				*****	*****

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
122 1,2-Dibromoethane	+++++	0.94371	0.97286	1.03625	0.96438	0.89775		
	1.05552	1.01757	1.03367				0.99022	5.492
123 1,1,1,2-Tetrachloroethane	+++++	+++++	0.64475	+++++	0.73434	0.85529		
	0.79781	+++++	+++++				0.75805	11.906
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
126 Chlorobenzene	+++++	1.47345	1.54321	1.64196	1.51608	1.38446		
	1.60526	1.56209	+++++				1.53236	5.584
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
128 Ethyl Benzene	+++++	0.76563	0.78268	0.83028	0.77143	0.71236		
	0.82597	0.80236	0.81840				0.78864	4.999
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
130 m,p-Xylene	+++++	0.92679	1.03564	1.04708	0.98262	0.92497		
	1.05574	1.00620	0.97673				0.99447	5.130
131 2-Heptanone	+++++	+++++	0.49672	+++++	0.76801	0.77093		
	+++++	+++++	+++++				0.67855	23.208
132 o-Xylene	+++++	0.87730	0.96923	0.98895	0.93469	0.84495		
	0.97025	0.92265	0.93958				0.93095	5.263

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
133 Styrene	+++++	1.19433	1.43652	1.55358	1.47705	1.39862		
	1.66057	1.61843	1.04321				1.42279	14.836
134 Bromoform	+++++	0.72778	0.99223	1.10880	1.07003	1.01019		
	1.25417	1.24599	1.21971				1.07861	16.246
135 Cyclohexanone	+++++	+++++	0.46913	+++++	0.63294	0.64853		
	+++++	+++++	+++++				0.58353	17.032
136 Cumene	+++++	2.66895	3.16118	3.31778	3.02219	2.86932		
	3.41374	2.12689	+++++				2.94001	14.971
137 Bromobenzene	+++++	+++++	0.65012	+++++	0.81127	0.80858		
	0.76634	+++++	+++++				0.75908	9.946
139 1,2,3-Trichloropropane	+++++	+++++	0.35338	+++++	0.43559	0.46442		
	0.40749	+++++	+++++				0.41522	11.398
140 2-Chlorotoluene	+++++	+++++	0.51134	+++++	0.63024	0.63450		
	0.60994	+++++	+++++				0.59651	9.686
141 1,1,2,2-Tetrachloroethane	+++++	1.04918	1.37309	1.30333	1.24421	1.18746		
	1.43337	1.38628	0.99859				1.24694	12.774
142 Propylbenzene	+++++	3.19128	3.72114	3.70438	3.54431	3.27715		
	3.92208	2.80162	+++++				3.45171	11.140
143 4-Chlorotoluene	+++++	+++++	0.50455	+++++	0.63473	0.64399		
	0.61726	+++++	+++++				0.60013	10.777

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
144 4-Ethyltoluene	+++++	2.69451	3.22828	3.20256	3.08094	2.90484		
	3.48988	2.08994	1.21657				2.73844	27.270
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	1.07063	+++++	1.69641	1.75886		
	+++++	+++++	+++++				1.50863	25.228
147 1,3,5-Trimethylbenzene	+++++	2.36935	2.85370	2.85051	2.62491	2.49957		
	2.93484	2.19133	1.34086				2.45813	21.164
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
149 tert-Butylbenzene	+++++	+++++	1.94465	+++++	2.41767	2.68488		
	2.63366	+++++	+++++				2.42022	13.946
150 Pentachloroethane	+++++	+++++	0.43744	+++++	0.59101	0.65180		
	0.61643	+++++	+++++				0.57417	16.458
151 sec-Butylbenzene	+++++	+++++	2.73291	+++++	3.46969	3.59551		
	3.89973	+++++	+++++				3.42446	14.458
152 1,2,4-Trimethylbenzene	+++++	2.36788	3.00055	2.96702	2.77728	2.53313		
	3.01109	2.03567	+++++				2.67037	13.993
153 p-Cymene	+++++	+++++	0.48779	+++++	0.66970	0.71745		
	0.79395	+++++	+++++				0.66722	19.501

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
154 1,2,3-Trimethylbenzene	+++++	+++++	0.67839	+++++	0.93180	1.15806		
	1.05818	+++++	+++++				0.95661	21.670
155 1,3-Dichlorobenzene	+++++	1.42544	1.71555	1.56617	1.48549	1.37707		
	1.62157	1.51819	+++++				1.52993	7.574
156 1,4-Dichlorobenzene	+++++	1.56450	1.95096	1.89359	1.75568	1.66938		
	2.02750	1.50656	0.78975				1.64474	23.789
157 alpha-Chlorotoluene	+++++	1.61759	2.28697	2.50678	2.47833	2.44805		
	3.20845	1.68120	+++++				2.31819	23.418
158 Butylbenzene	+++++	+++++	0.41862	+++++	0.57720	0.74020		
	0.74332	+++++	+++++				0.61983	25.001
159 1,2-Dichlorobenzene	+++++	1.21262	1.51090	1.46038	1.38725	1.29843		
	1.53582	1.52679	0.88997				1.35277	16.252
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.50197	+++++	0.80337	0.89641		
	0.99979	+++++	+++++				0.80039	26.801
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
163 1,2,4-Trichlorobenzene	+++++	+++++	0.79081	0.89562	0.89769	0.78824		
	0.81895	0.80460	0.92628				0.84603	6.893

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
164 Hexachlorobutadiene	+++++	+++++	0.93166	1.02029	0.94947	0.81504		
	0.87934	0.80442	0.79246				0.88467	9.748
165 Naphthalene	+++++	+++++	1.60557	1.94704	1.96100	1.87778		
	2.27526	+++++	+++++				1.93333	12.359
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
192 Cyclopentene	+++++	+++++	3.63949	+++++	4.45408	4.03903		
	3.81803	+++++	+++++				3.98766	8.809
$ 84 1,2-Dichloroethane-d4	1.89576	1.83371	1.90559	1.88206	1.89266	1.93361		
	1.88823	2.13179	2.16993				1.94815	6.069
$ 107 Toluene-d8	0.97814	0.96955	0.96795	1.00072	1.00313	0.98791		
	0.98385	1.03925	1.04611				0.99740	2.848
$ 138 Bromofluorobenzene	0.63209	0.63569	0.63458	0.63859	0.64975	0.68528		
	0.60620	0.62634	0.62947				0.63755	3.348

Calibration History

Method : /chem/msdc.i/24Apr2008.b/t145424.m
Start Cal Date: 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 3.00000		
24-APR-2008 13:36	Benzene	/chem/msdc.i/24Apr2008.b/c042412.d
Cal Level: 2 , Cal Amount: 5.00000		
24-APR-2008 22:39	AT04Low+ENSR	/chem/msdc.i/24Apr2008.b/c042424.d
Cal Level: 3 , Cal Amount: 20.00000		
24-APR-2008 15:16	AT04+ENSR	/chem/msdc.i/24Apr2008.b/c042414.d
16-APR-2008 18:36	Spfrnosur-134a	/chem/msdc.i/24Apr2008.b/c041607.d
16-APR-2008 13:20	Dibromnosurr	/chem/msdc.i/24Apr2008.b/c041528.d
16-APR-2008 10:58	Spbt2nosurr	/chem/msdc.i/24Apr2008.b/c041524.d
Cal Level: 4 , Cal Amount: 50.00000		
24-APR-2008 15:44	AT04+ENSR	/chem/msdc.i/24Apr2008.b/c042415.d
Cal Level: 5 , Cal Amount: 100.00000		
24-APR-2008 16:17	AT04+ENSR	/chem/msdc.i/24Apr2008.b/c042416.d
16-APR-2008 19:03	Spfrnosur-134a	/chem/msdc.i/24Apr2008.b/c041608.d
16-APR-2008 13:48	Dibromnosurr	/chem/msdc.i/24Apr2008.b/c041529.d
16-APR-2008 11:41	Spbt2nosurr	/chem/msdc.i/24Apr2008.b/c041525.d
Cal Level: 6 , Cal Amount: 200.00000		
24-APR-2008 16:55	AT04+ENSR	/chem/msdc.i/24Apr2008.b/c042417.d
16-APR-2008 19:29	Spfrnosur-134a	/chem/msdc.i/24Apr2008.b/c041609.d
16-APR-2008 14:15	Dibromnosurr	/chem/msdc.i/24Apr2008.b/c041530.d
16-APR-2008 12:15	Spbt2nosurr	/chem/msdc.i/24Apr2008.b/c041526.d

Cal Level: 7 , Cal Amount: 1000.00000		
24-APR-2008 17:57	Napth+TBA	/chem/msdc.i/24Apr2008.b/c042419.d
24-APR-2008 17:23	AT04(High)+ENSR	/chem/msdc.i/24Apr2008.b/c042418.d
16-APR-2008 14:41	Dibromnosurr	/chem/msdc.i/24Apr2008.b/c041531.d
16-APR-2008 12:51	Spbt2nosurr	/chem/msdc.i/24Apr2008.b/c041527.d

Cal Level: 8 , Cal Amount: 2500.00000		
24-APR-2008 18:54	AT04(High)+ENSR	/chem/msdc.i/24Apr2008.b/c042420.d

Cal Level: 9 , Cal Amount: 5000.00000		
24-APR-2008 19:21	AT04(High)+ENSR	/chem/msdc.i/24Apr2008.b/c042421.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 200.00		
16-APR-2008 19:29	Spfrnosur-134a	/chem/msdc.i/24Apr2008.b/c041609a.d

Ccal Level: 6 , Ccal Amount: 200.00		
16-APR-2008 19:29	Spfrnosur-134a	/chem/msdc.i/24Apr2008.b/c041609.d

Ccal Level: 6 , Ccal Amount: 200.00		
24-APR-2008 16:55	AT04+ENSR	/chem/msdc.i/24Apr2008.b/c042417a.d

Ccal Level: 6 , Ccal Amount: 200.00		
24-APR-2008 16:55	AT04+ENSR	/chem/msdc.i/24Apr2008.b/c042417.d

Ccal Level: 6 , Ccal Amount: 200.00		
16-APR-2008 14:15	Dibromnosurr	/chem/msdc.i/24Apr2008.b/c041530.d

Ccal Level: 6 , Ccal Amount: 200.00		
16-APR-2008 12:15	Spbt2nosurr	/chem/msdc.i/24Apr2008.b/c041526.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2008 10:58
End Cal Date : 24-APR-2008 22:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/24Apr2008.b/t145424.m
Cal Date : 28-Apr-2008 09:30 lzhang
Curve Type : Average

2nd Source : file : c042426.

Bromomethane % RSD >30% <40%.
SP-1 Compds top curve 200ppbv.
Naphthalene + TBA top of curve 1000 ppbv.
Cumene, Chlorobenzene, Propylbenzene, 1,2,4-Trimethylbenzene and 1,3-Dichlorobenzene top of curve 250ppbv.

Calibration File Names:
Level 1: /chem/msdc.i/24Apr2008.b/c042412.d
Level 2: /chem/msdc.i/24Apr2008.b/c042424.d
Level 3: /chem/msdc.i/24Apr2008.b/c042414.d
Level 4: /chem/msdc.i/24Apr2008.b/c042415.d
Level 5: /chem/msdc.i/24Apr2008.b/c042416.d
Level 6: /chem/msdc.i/24Apr2008.b/c042417.d
Level 7: /chem/msdc.i/24Apr2008.b/c042419.d
Level 8: /chem/msdc.i/24Apr2008.b/c042420.d
Level 9: /chem/msdc.i/24Apr2008.b/c042421.d

} See history

4/28/2008 mw

Based on 50 mL Load

6/28/08

Compound (Unit ppbv)	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
3 Freon 152a	+++++	+++++	1.35834	+++++	1.01284	0.92098		
	+++++	+++++	+++++				1.09739	21.015
4 Freon 22	+++++	+++++	0.52278	+++++	0.41825	0.42748		
	+++++	+++++	+++++				0.45617	12.687
5 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
6 Propylene	+++++	+++++	0.91015	1.22742	1.15014	1.10834		
	1.12198	1.10952	0.99939				1.08956	9.538
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

@ Air Toxics Ltd.

MSD-C

Logbook #: 1657

0108

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	17.47
75	30.0 – 60.0% of mass 95	51.08
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.76
173	Less than 2.0% of mass 174	(0.35)[1]
174	50.0 – 100% of mass 95	67.56
175	5.0 – 9.0% of mass 174	(7.37)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.72)[1]
177	5.0 – 9.0% of mass 176	(6.47)[2]

[1] - value in parenthesis is % mass 174 [2] - value in parenthesis is % mass 176

BFB Injection Date: 4/24/08
BFB Injection Time: 1236
BFB File ID: C042410
Tekmar Purge Flow: na
Vacuum: na

IS/S Std.#: 1544-78	Exp. Date: 7/24/08
BCM 414647	
1,4-DFB 188 0051	
CB-d5 1629476	

Verified CCV IS vs ICAL mid-point (- 40%D) mw (initials)

Verify 176/174 m/z Ratio: 144064/150464 x100 = 95.75 %

NOAH Cart #: na **File #:** na

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1360107\ )}{(\ 1629476\ )} \times \frac{(\ 400\ )}{(\ 1.64474\ )} =$ 203.00

File ID:	C042417
Compound:	14 DCB
Initials:	mw

Reported Result 4/28/2008 mw 203.00

Method: tb145424

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	C042408 10 4/24 mw ** 2	1476-224 BFB	NA	50Nfg	2 ml	1.00	ug	4/24/08	1236	ug	
2	✓	11	Lab Blank	4074	na	50mL	1.00	mw		1258	↓	
3	✓	12	1544-83	35621	20ppbv→3.0ppbv	7.5ml		ug		1336	mw	Level 1
4	✓	13	1544-81C	31443	200ppbv→5ppbv	1.25ml				1450		2
5	✓	14	1544-83	35621	20ppbv→20ppbv	50 ml				1516		3
6	✓	15	1544-81C	31443	200ppbv→50ppbv	12.5ml				1544		4
7	✓	↓ 16	|	|	200ppbv→100ppbv	25ml			↓	1617	↓	↓ 5

mw
Signature

4/28/2008
Date

@ Air Toxics Ltd.

MSD-C

Logbook #: 1657

8	✓	C042417	1544-81C	31443	200ppbv	50mL	1.00	ug	4/24/08	1655	MW	Level 6	
9	✓	18	1544-86	33873	2500ppbv→1000	20mL	1	1		1723		7	
10	✓	19	1544-84, 1000ppbv	1434	1000ppbv→1000ppbv	50mL	1.00	"		1757		4/24/08 7	
11	✓	20	1544-80, 2500ppbv	33873	2500ppbv→2500ppbv	50mL	1.00	"		1854		6 8	
12	✓	21	1544-80, 5000ppbv	34415	5000ppbv→5000ppbv	50mL	1.00	"		1921		Level 9	
13	X	22	Lab Blank	4074	NA	NA	1.00	"		2136		5mL	
14	✓	23	Lab Blank	4074	NA	50mL	1.00	"		2208			
15	✓	24	1544-81C, 200ppbv	31443	200ppbv→5ppbv	1.25mL	1.00	"		2239		Level 2	
16	✓	25	Humid Lab Blank	4074	N/A	50mL	1.00	"		2337	"		
17	✓	26	1544-82A LCS	22506	N/A	50mL	1.00	"	4/25/08	0005	"	LCS exp 4/24/08	
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													

" 4/25/08

0109

Comments:

Signature

4/25/08
Date

@ Air Toxics Ltd.

MSD-C

Logbook #: 1657

0110

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	16.03
75	30.0 – 60.0% of mass 95	47.37
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.27
173	Less than 2.0% of mass 174	(0.00)[1]
174	50.0 – 100% of mass 95	68.28
175	5.0 – 9.0% of mass 174	(7.07)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.46)[1]
177	5.0 – 9.0% of mass 176	(6.52)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 4/15/08

BFB Injection Time: 16:13

BFB File ID: C041508

Tekmar Purge Flow:

Vacuum: 5.72 e-006

IS/S Std.#:	1544-53	Exp. Date: 7/8/08
BCM	444251	
1,4-DFB	2026746	
CB-d5	1628066	

Verified CCV IS vs ICAL mid-point (- 40%D) LW (initials)

Verify 176/174 m/z Ratio: 181952/188608 x100 = 96.47%

NOAH Cart #: NA **File #:** NA

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 98\,1741\ )}{(\ 444251\ )} \times \frac{(\ 400\ )}{(\ 391525\ )} =$ 226

File ID:	C041514a
Compound:	Fr 12
Initials:	LW

Reported Result 226

Method: E145415

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	C041508	1476-224 BFB	50ng	NA	2ml	1.00	LW	4/15/08	1613	LW / LW	
2	✓	09	Cab Blank	33783		50 ml				1635		
3	✓	10	1544-57A-200ppbv→5ppbv	33671	200ppbv→5ppbv	1.25ml				1727	LW	Level #2
4	X	11	1544-60, 20ppbv	35621	20ppbv→20ppbv	50mL	1.00	LW		1755		Level #3
5	✓	12	1544-57A, 200ppbv	33671	200ppbv→5ppbv	12.5mL	1.00	LW		1821		Level #4
6	✓	13	1544-57A, 200ppbv	33671	200ppbv→10ppbv	25mL	1.00	LW		1848		Level #5
7	✓	14	1544-57A, 200ppbv	33671	200ppbv→20ppbv	50mL	1.00	LW	↓	1914		Level #6

LW 4/16/08

LW

Signature

4/17/08

Date

@ Air Toxics Ltd.

MSD-C

Logbook #: 1657

8	✓	C041515	1544-52, 1000ppbv	22963	1000ppbv→1000ppbv	50mL	1.00	A	4/15/08	2000	W	Level 6 (No Naph/TBA)
9	✓	16	1544-55, 1000ppbv	1434	1000ppbv→1000ppbv	50mL	1.00	A		2026		Level 7 (Naph, TBA)
10	✓	17	1544-58, 5000ppbv	34415	5000ppbv→2500ppbv	25mL	1.00	A		2052		Level 8
11	✓	18	1544-58, 5000ppbv	34415	5000ppbv→5000ppbv	50mL	1.00	A		2118		Level 9
12	✓	19	Lab Blank	33783	NA	50mL	1.00	A		2144		
13	✓	20	1544-59A, 200ppbv	22506	200ppbv→200ppbv	50mL	1.00	A	✓	2220		LCS, 6/24/08
14	✓	21	Lab Blank	33783	na	50mL	1.00	new	4/16/08	0749		
15	✓	22	1544-60 20ppbv	35621	na	~~5mL~~ 50mL	1.00	new		0830		Level 1
16	✓	23	1544-57A 200ppbv	33671	na	5mL	1.00	new		1006		Level 3
17	✓	24	1541-119 200ppbv	34399		5mL	1.00	new	4/16/08 @	1058		Level 3
18	✓	25				25mL	1.00	new		1141		Level 5
19	✓	26				50mL		Lyr		125		Level 6
20	✓	27	1541-42 50ppmv	33589		1.0mL				1251		Level 7
21	✓	28	1576-319 200ppbv	33376	↓	5.0mL	↓			1320		Level 3
22	✓	29	1576-319, 200ppbv	33376	NA	25mL	1.00	A		1348		Level 5
23	✓	30	1576-319, 200ppbv	33376	200ppbv→200ppbv	50mL	1.00	A		1415		Level 6
24	✓	31	1443-372, 50ppmv	13662	50ppmv→1ppmv	1mL	1.00	A	✓	1441	✓	Level 7
25												
26												
27												
28												
29												
30												
31							Li 4/17/08					

Comments:

Signature

4/17/08
Date

@ Air Toxics Ltd.

MSD-C

Logbook #: 1657

0112

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	15.89
75	30.0 – 60.0% of mass 95	46.21
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.43
173	Less than 2.0% of mass 174	(0.00)[1]
174	50.0 – 100% of mass 95	65.55
175	5.0 – 9.0% of mass 174	(6.75)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.87)[1]
177	5.0 – 9.0% of mass 176	(6.84)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 4/16/08

BFB Injection Time: 1509

BFB File ID: C041601

Tekmar Purge Flow: na

Vacuum: 2.05e-006

IS/S Std.#:	1544-53	Exp. Date: 7/8/08
BCM	437,004	
1,4-DFB	1,968,650	
CB-d5	1,594,831	

Verified CCV IS vs ICAL mid-point (- 40%D) ✓ *initials*

Verify 176/174 m/z Ratio: 106,656 / 110104 x 100% = 96.87 %

NOAH Cart #: NA **File #:** NA

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 415,077\ )}{(\ 437,004\ )} \times \frac{(\ 400\ )}{(\ 1.63084\ )} = 232.97$

File ID:	C041603
Compound:	VC
Initials:	✓

Reported Result 232.97

Method: tl45415.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	C041601	BFB; 1476-224	NA	NA	2.0mL	1.00	✓	4/16/08	1509	✓ / MW	
2	✓	02	Lab Blank	33783	NA	50mL	1.00	✓		1529		
3	✓	03	CCV; 1544-57A	33671		50mL	1.00	✓		1556		
4	✓	04	DI2CCV; 1544-119 (all but 60)	34399		50mL	1.00	✓		1630		
5	✓	05	LCS; 1544-59A	22506		50mL	1.00	✓		1657		
6	✓	06	Lab Blank	33783		50mL	1.00	✓		1804	✓	
7	✓	07	1576-342, 5pt 200ppbv	3761	✓	5mL	1.00	✓	✓	1936	MW	

Signature

4/16/08
Date

@ Air Toxics Ltd.

MSD-C

Logbook #: 1657

0113

8	✓	Con|16 08	1576-342, Spl	3761	NA	25mL	1.00	✓	4|16|08	1903	Mew		
9	✓	09	1576-342, Spl	3761	NA	50mL	1.00	✓		1929	Mew		
10	✓	10	1443-404, Spl	9917	NA	1mL	1.00	✓		1958	Mew		
11	✓	11	0804350 - 01A	14511	5.0"Hg→15psi	50mL	~~1.00~~ 2.42	✓		2024	A/Mew	DF: 2.42	
12	✓	12	-01AA	14511	5.0"Hg→15psi	50mL	2.42	✓		2052			
13	✓	13	-02A	1456	4.5"Hg→15psi	50mL	2.36	✓		2118			
14	✓	14	-03A	2109	4.5"Hg→15psi	50mL	2.38	✓		2145			
15	✓	15	-04A	34642	3.0"Hg→15psi	50mL	2.24	✓		2211	✓		
16	✓	16	-05A	30815	3.0"Hg→15psi	50mL	2.24	✓		2256	✓		
17	✓	17	-06A	34663	3.0"Hg→15psi	37.5mL	2.99	✓		2328	✓		
18	✓	18	-07A	20780	3.0"Hg→15psi	37.5mL	2.99	✓		2359	✓		
19	✓	19	0804366A-01A	34318	1.5"Hg→5psi	50mL	1.41	✓	4|17|08	0039	✓		
20	✓	20	02A	12093	0.0"Hg→5.0psi	50mL	1.34	✓		0123	✓	Dup	
21	✓	21	02AA	1	1	1	1	✓		0152	✓		
22	✓	22	03A	20738	0.5"Hg→5.0psi	50mL	1.36	✓		0222	✓		
23	✓	23	080 4353A-01A	SSC-EFF	Bag	50mL	1.00	✓		0252	✓		
24	✓	24	02A	SSC-INF	Bag	50mL	1.00	✓		0321	✓		
25	✓	25	0804185A-01A	25291	3.0"Hg→15psi	50mL	2.24	✓		0404	✓		
26	✓	26	02A	2079	5.0"Hg→15.0psi	50mL	2.42	✓		0437	✓		
27	✓	27	03A	2126	6.0"Hg→15.0psi	50mL	2.76	✓		0511	✓	12DCE ↑ matrix	
28	✓	28	04A	30819	3.5"Hg→15.0psi	50mL	2.29	✓		0543	✓		
29	✓	29	05A	35630	3.0"Hg→15psi	50mL	2.24	✓		0621	Mew		
30	✓	30	0803667A-01A	21021	19.5"Hg→15psi	0.5mL	5.77	Mew		0700	Mew		
31		31	-01A	21021	19.5"Hg→15psi	50mL	5.77	Mew		0729	Mew		

Comments:

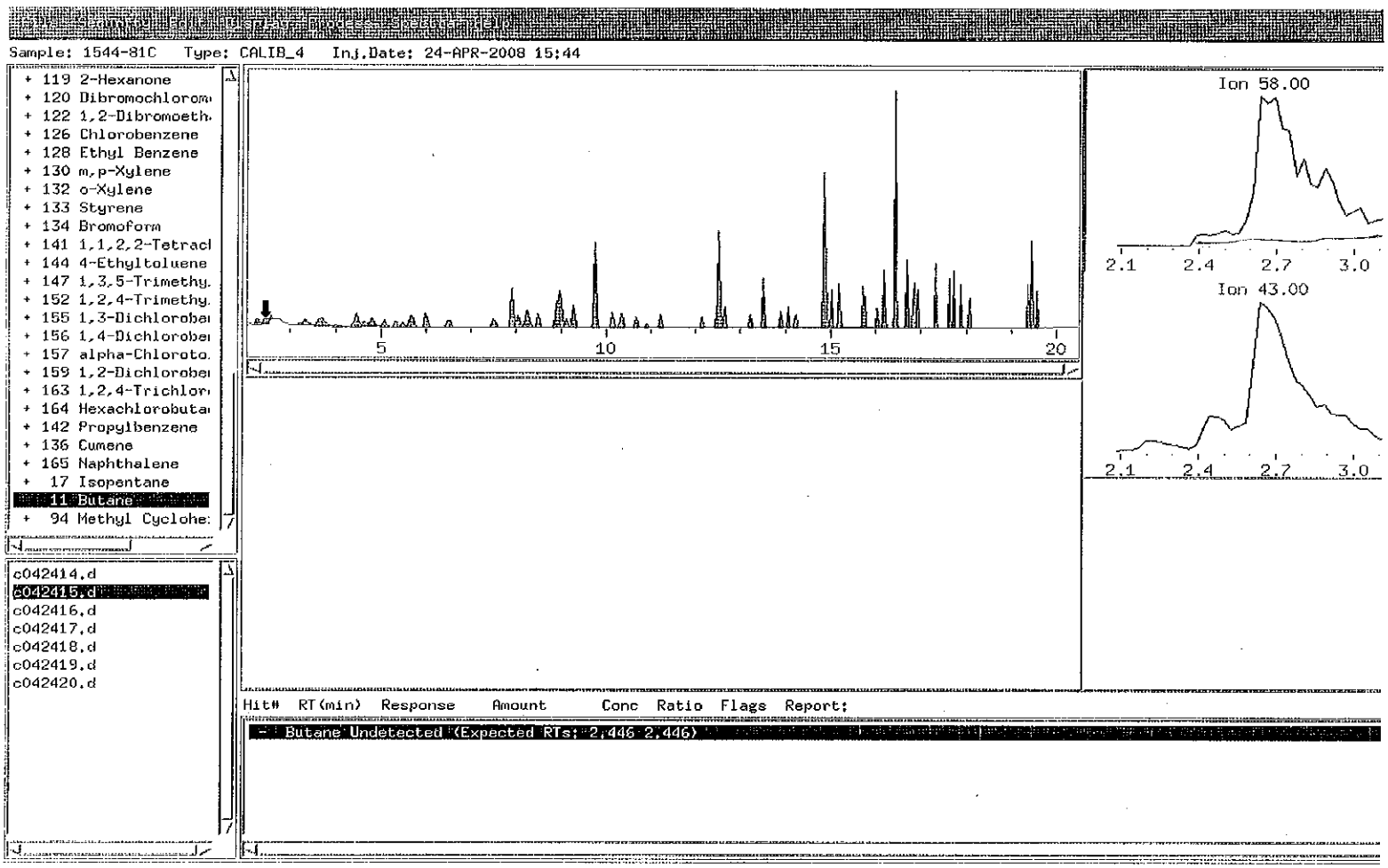
Signature

4/17/2008
Date

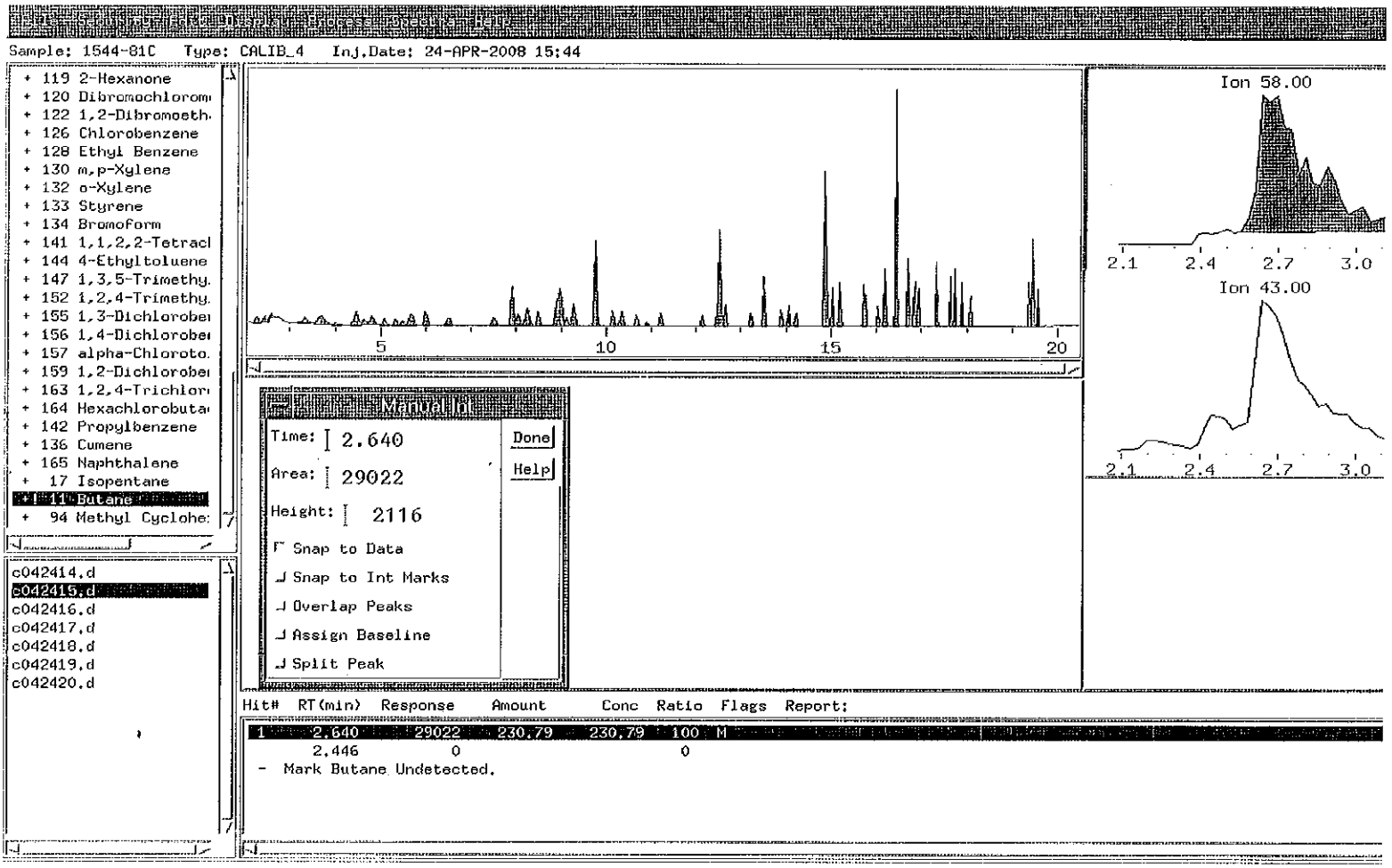
Initial Calibration Narrative

A 9 point initial calibration was analyzed on MSDC on 04/24/08. As noted on the accompanying analytical run logs, the following point calibration level 3 was re-analyzed due to an incorrect load volume.

File number C041610 SP-1 Compounds was corrupt and was not included with the initial calibration.

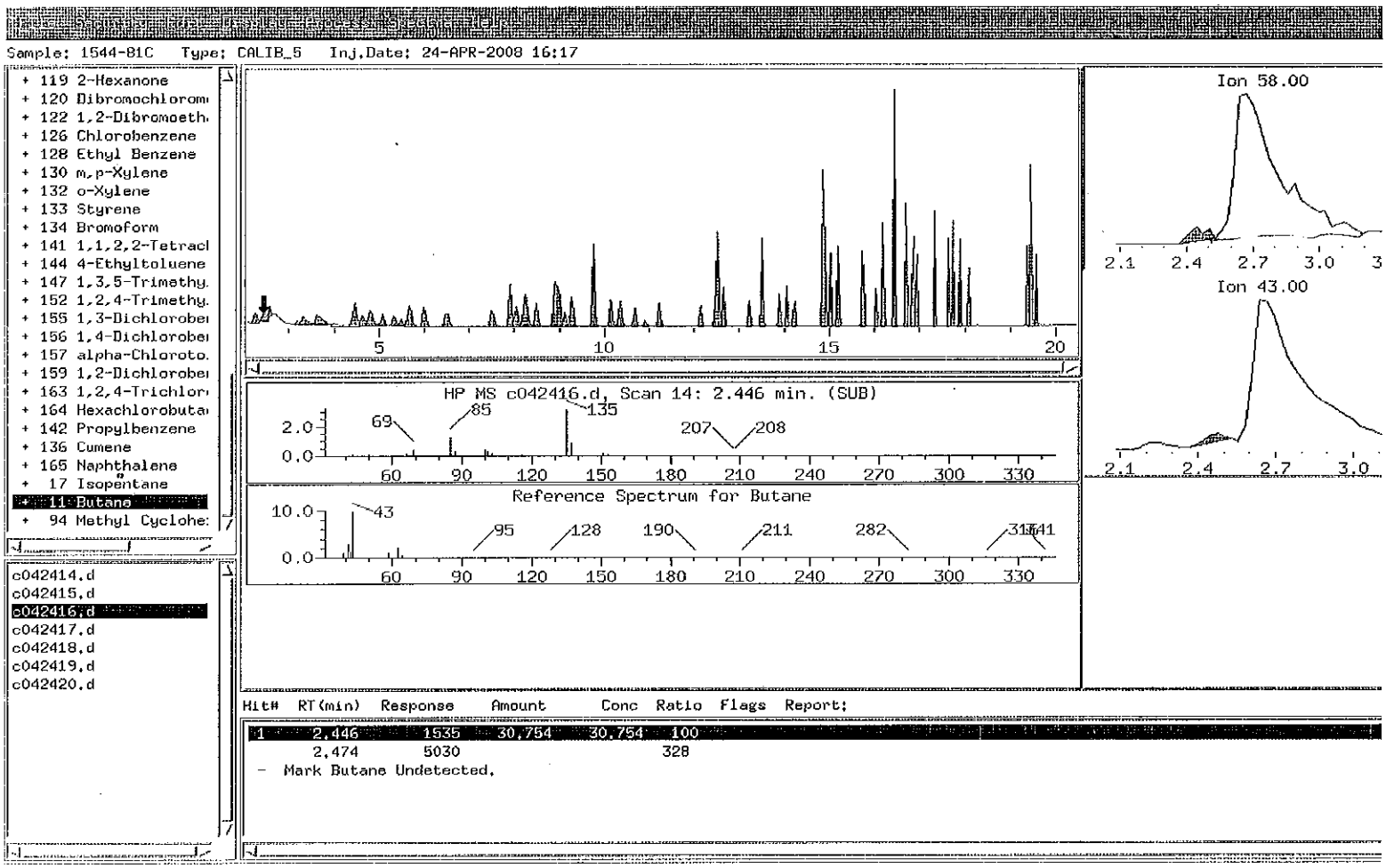


Before
4/28/2008
mc

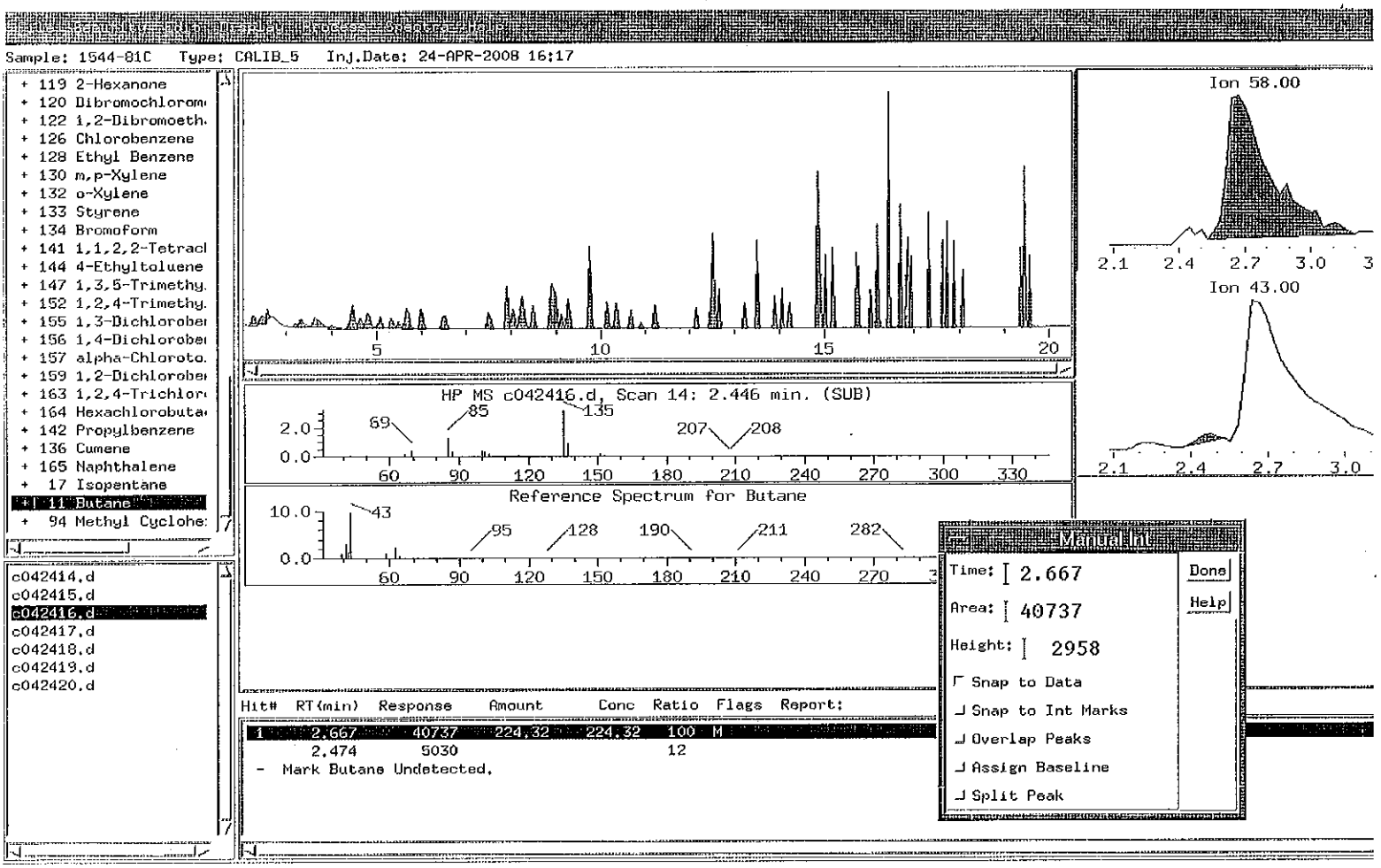


After
4/28/2008

Correct Baseline	NC
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	↓
Peak Misidentified	
Corrected Peak Integration	✓



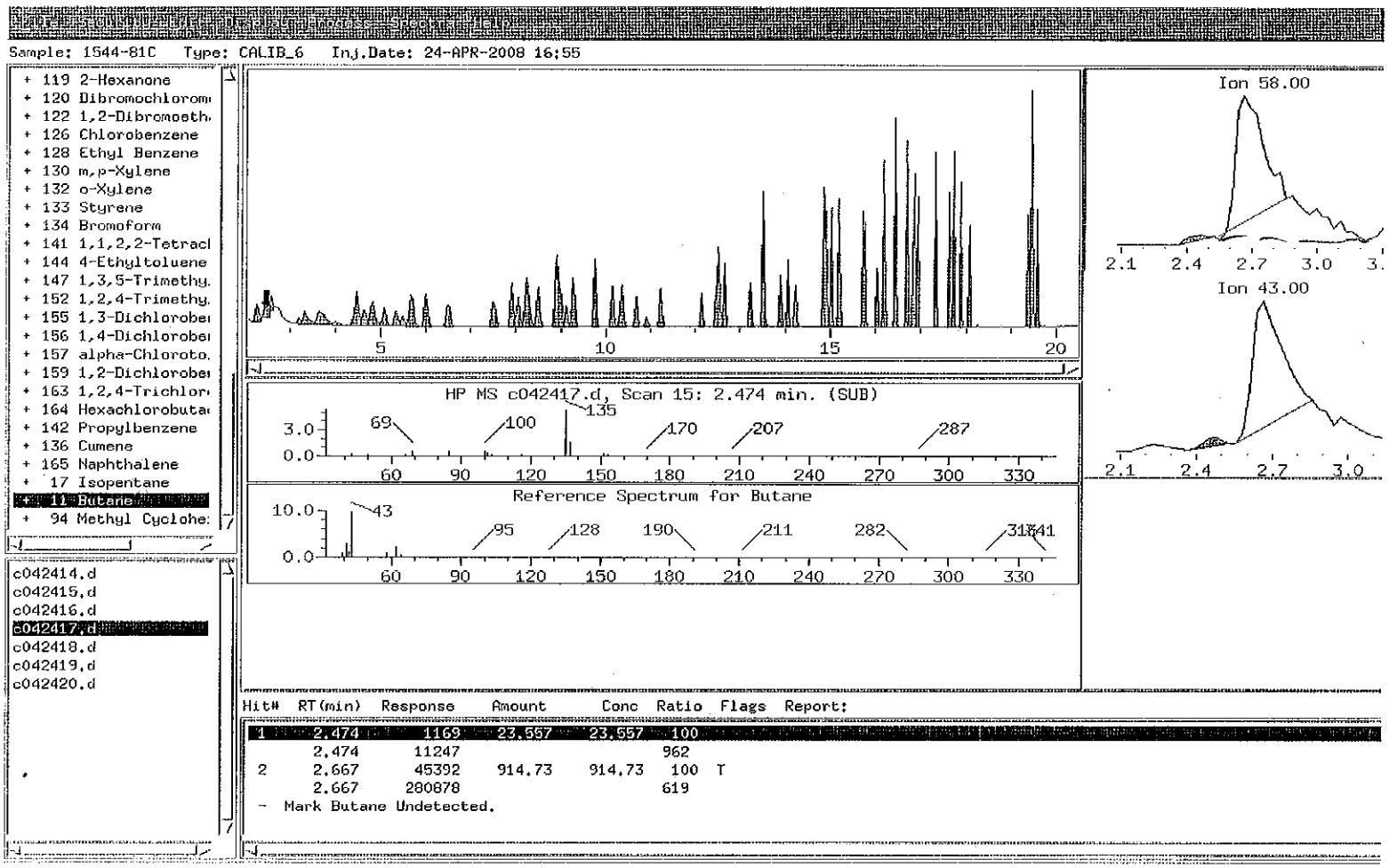
Before
4/28/2008
MW



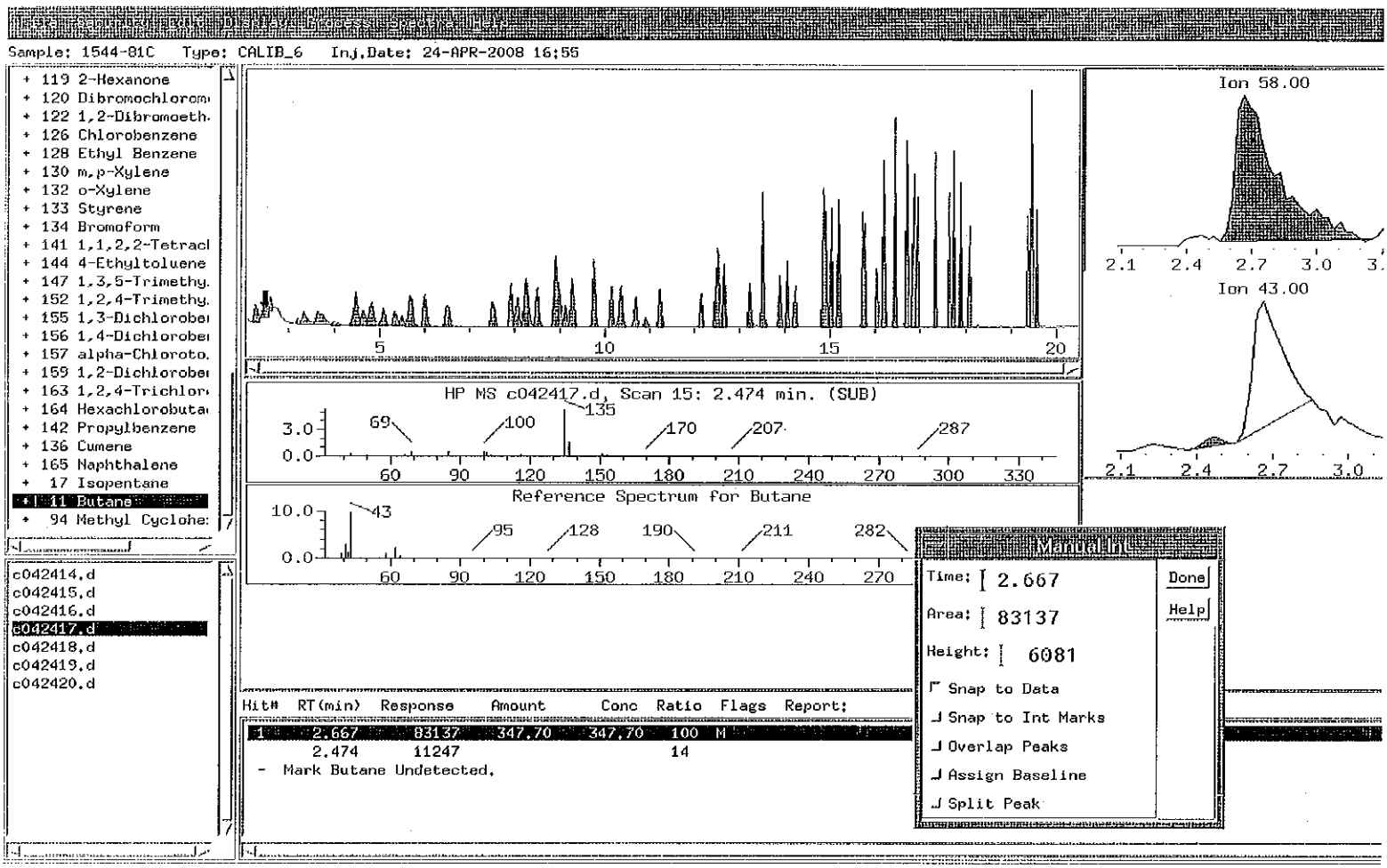
After
4/28/2008
MLW

Correct Baseline	NA
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	↓
Corrected Peak Integration	↓

L-4/28/08



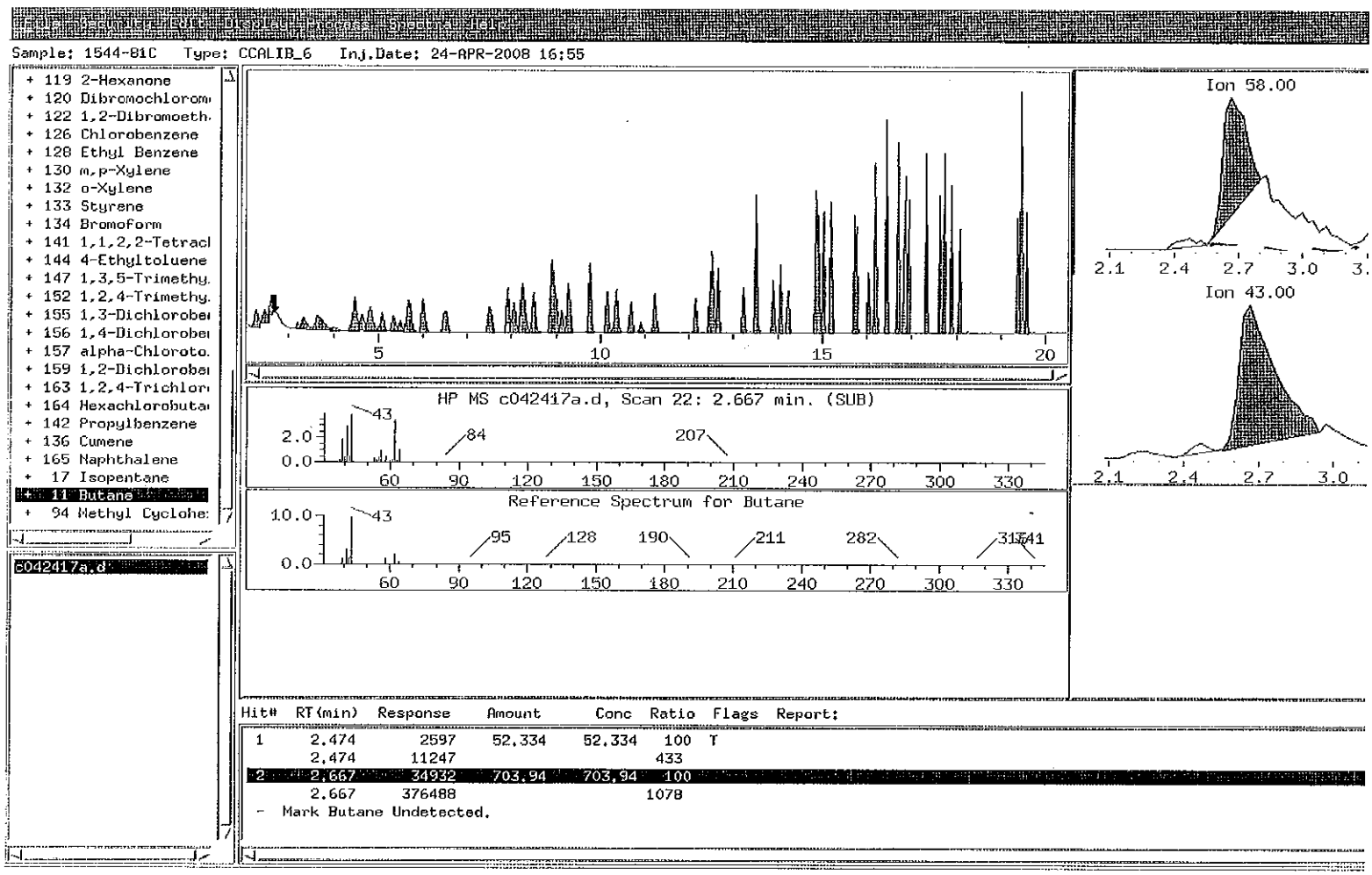
Before
4/28/2008
MW



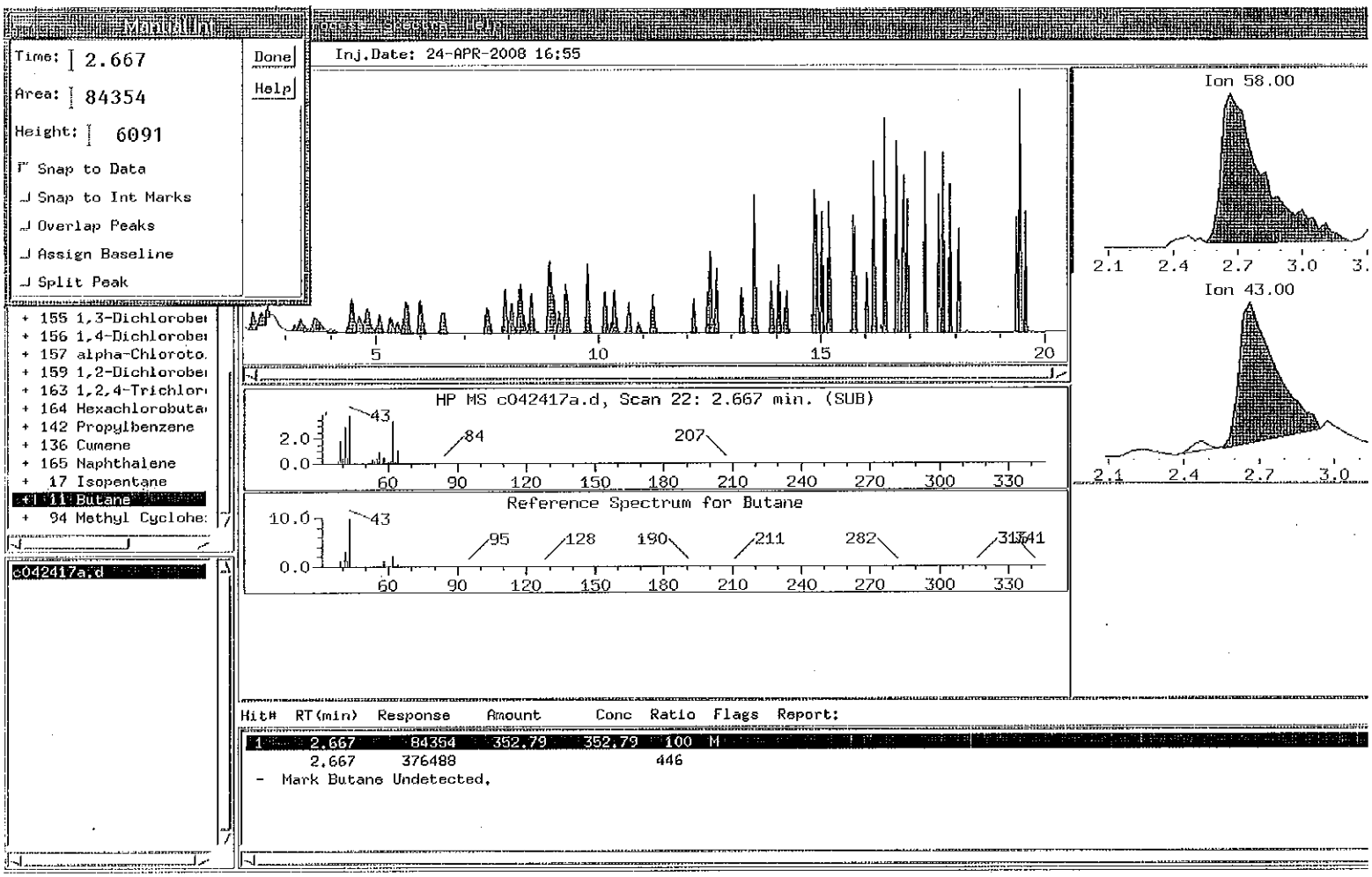
After
4/28/2008
MCW

Correct Baseline	NA
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	✓
Corrected Peak Integration	✓

4/28/08



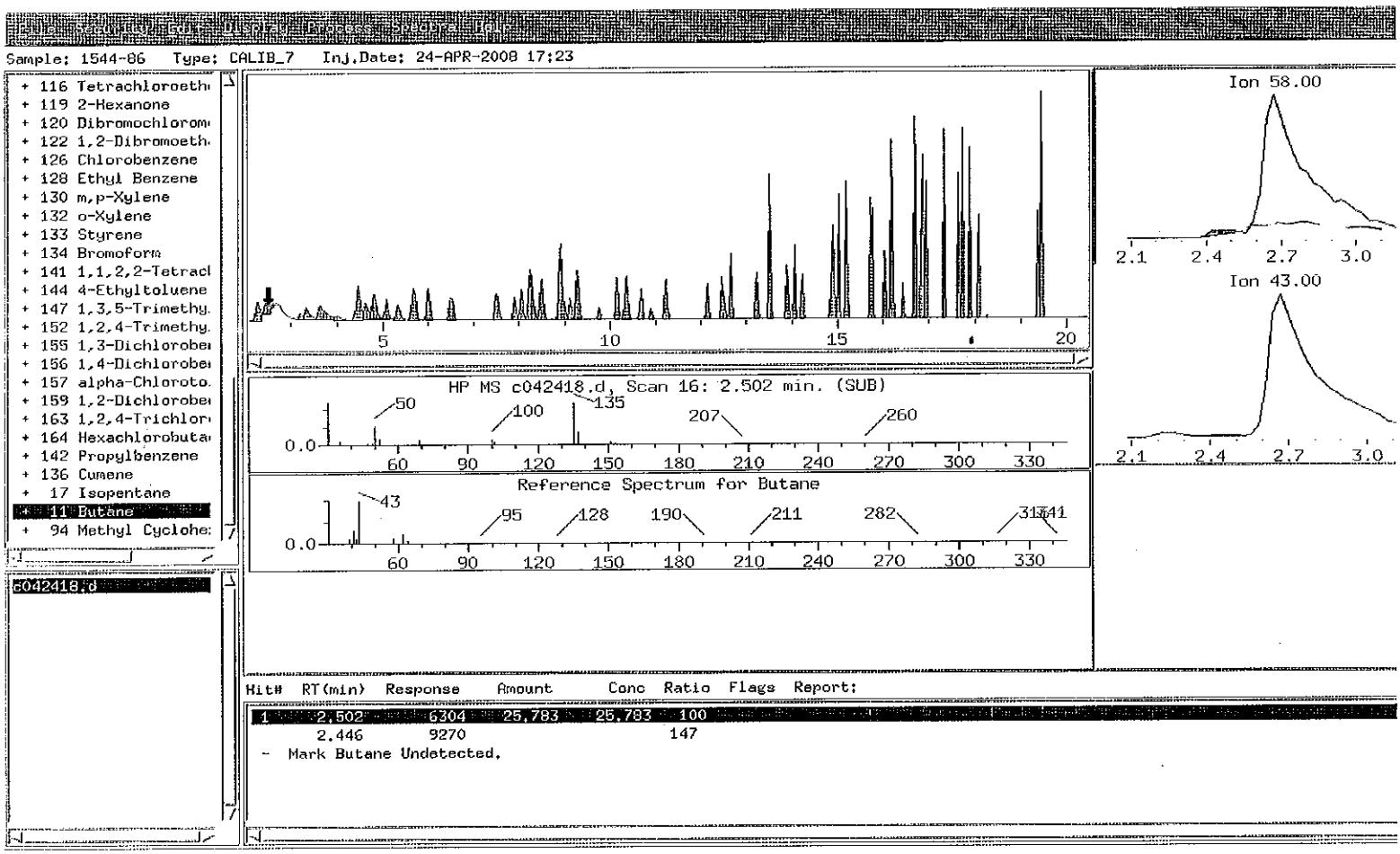
Before
4/28/2008
MW



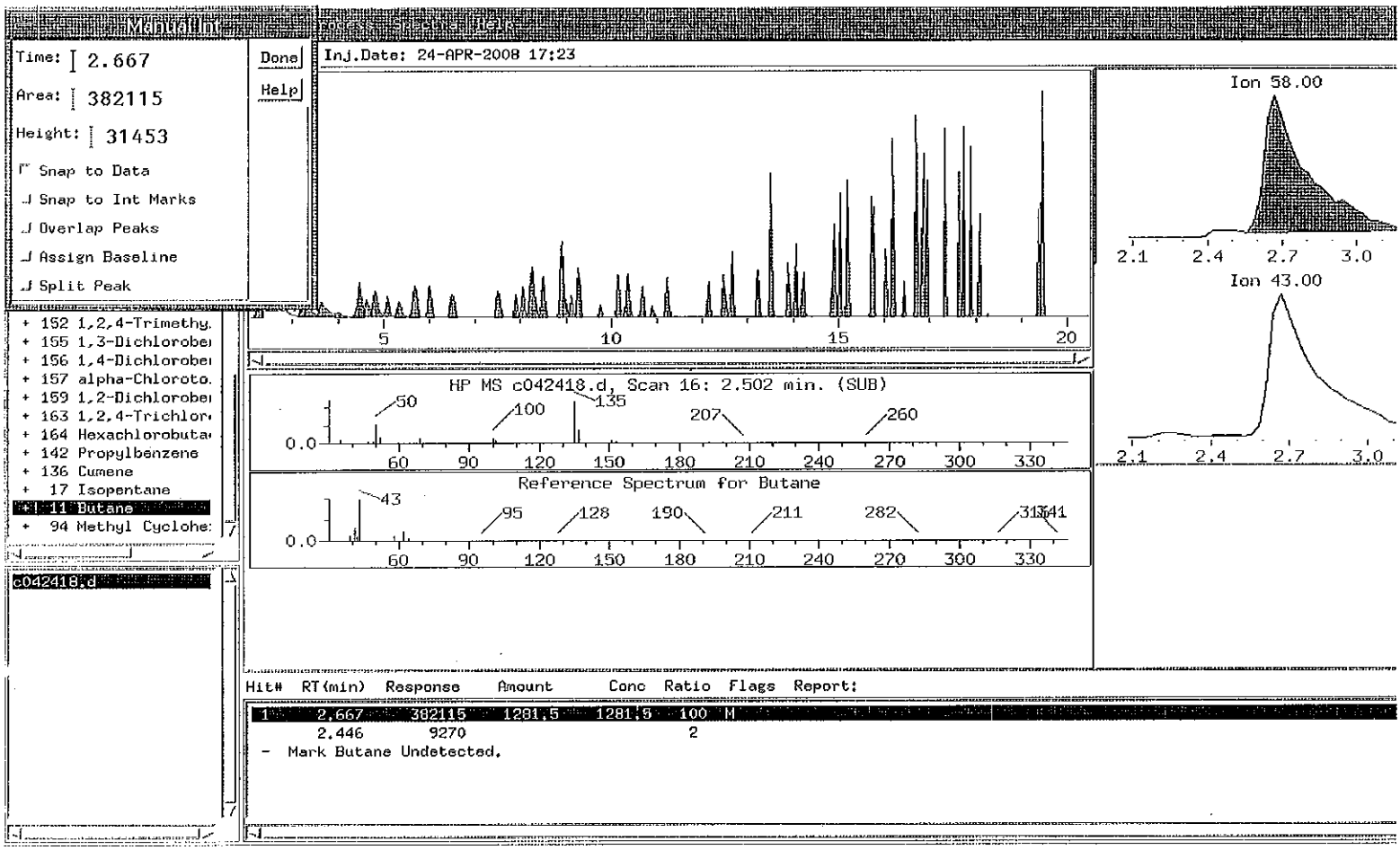
After
4/28/2008
MW

Correct Baseline	✓
Split Peak	NA
Zoom In	
Change Parameter	
Background Subtraction	

4/28/08



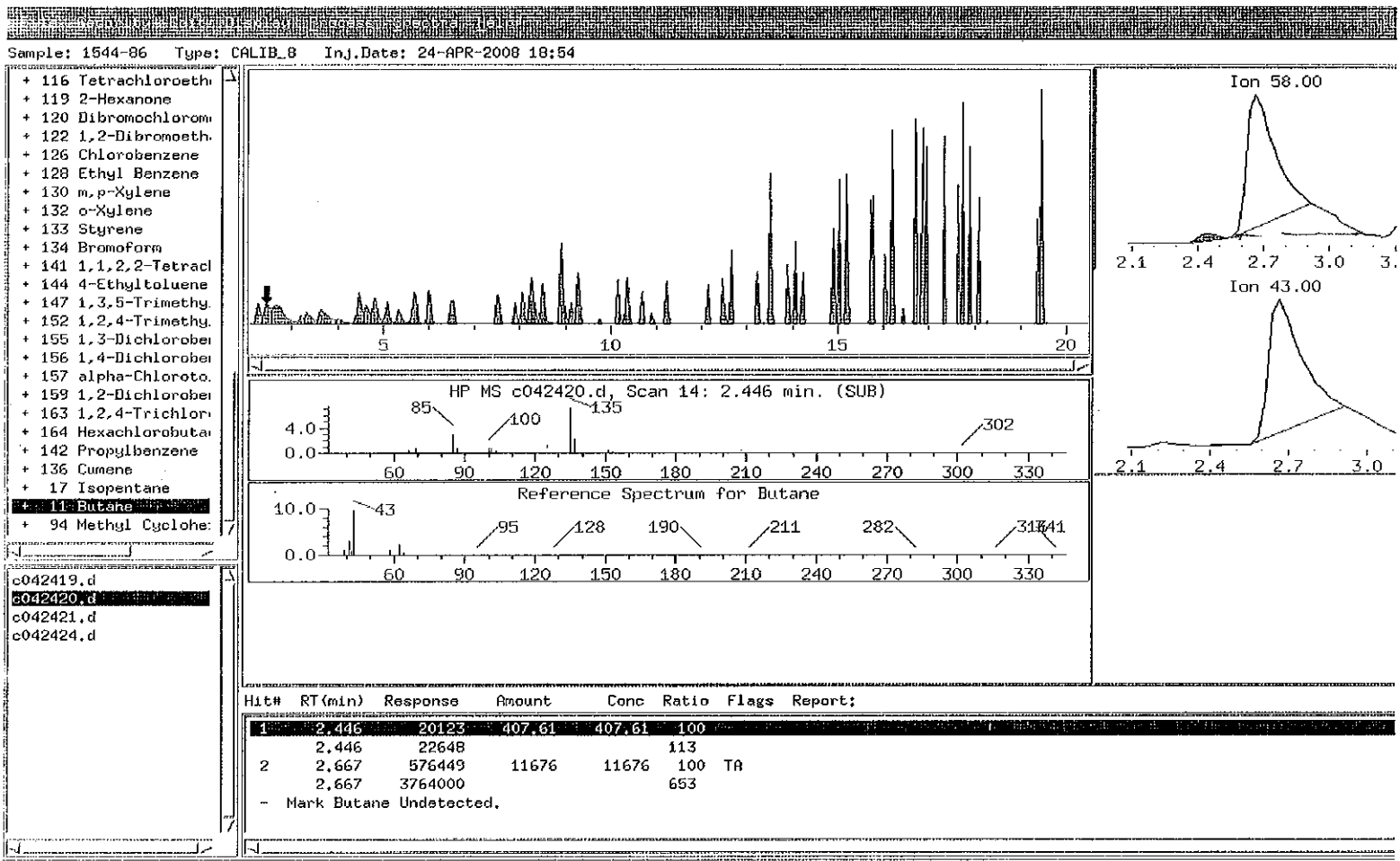
Before
4/28/2008
MW



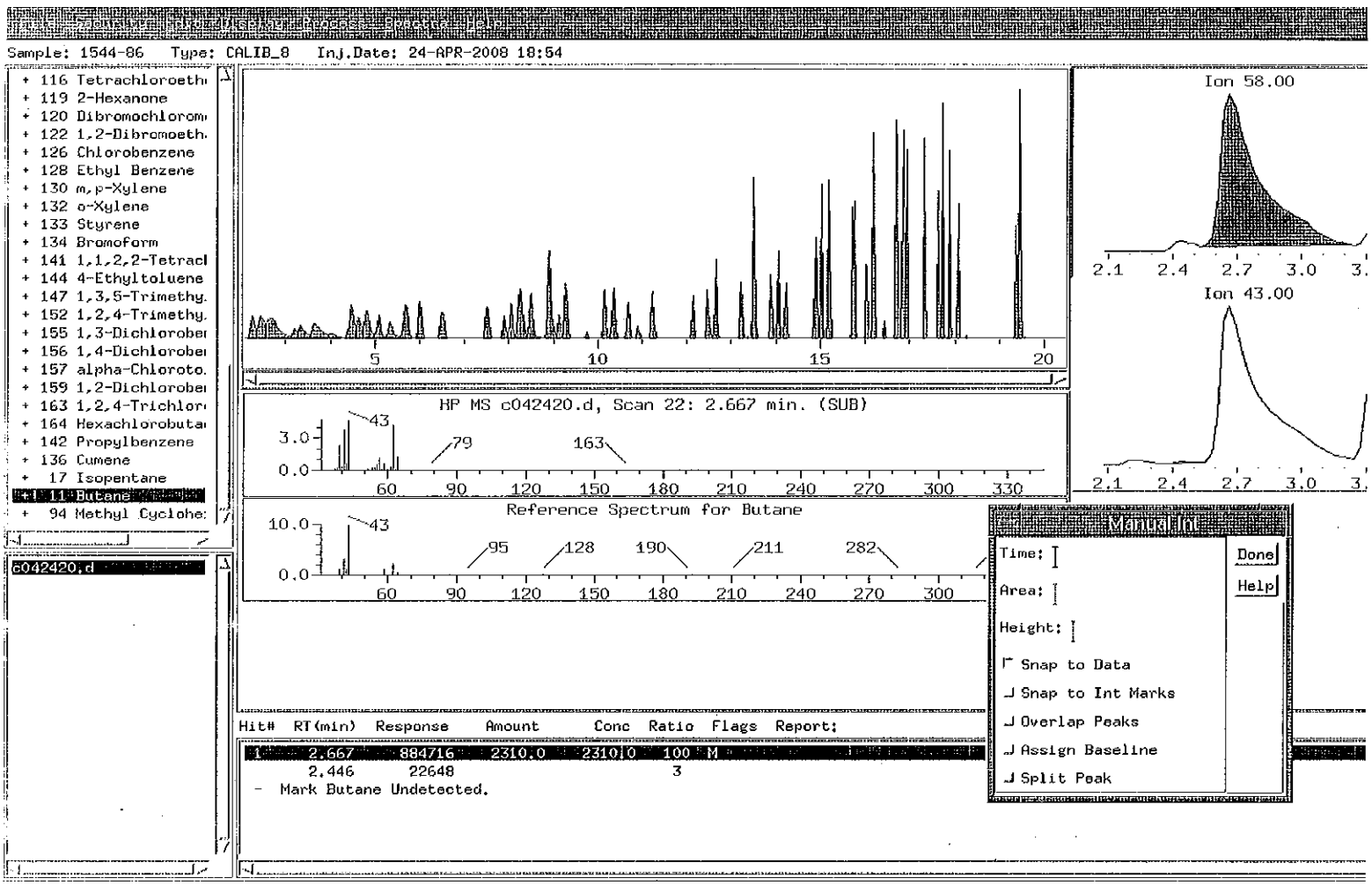
After
4/28/2008
MW

Correct Baseline	no
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	✓

4/28/08



Butane
4/28/2008
MW



After
4/28/2008

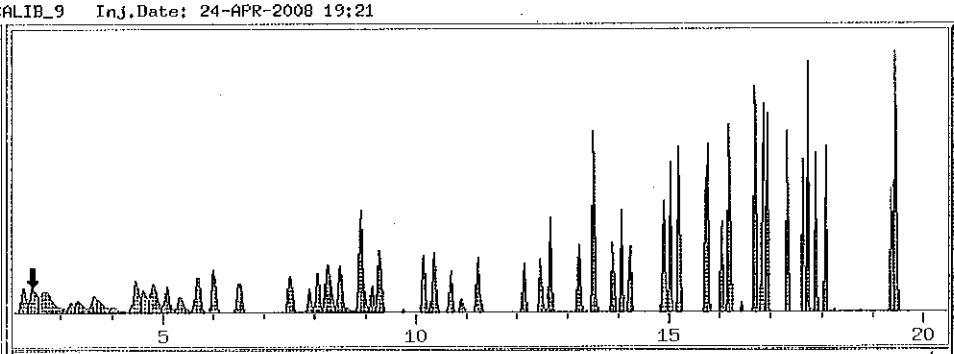
Correct Baseline	
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	✓

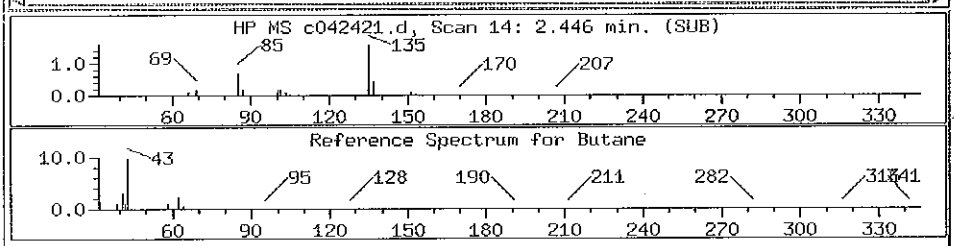
4/28/2008

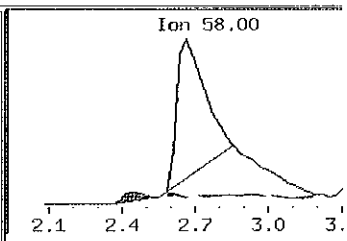
Sample: 1544-80 Type: CALIB_9 Inj.Date: 24-APR-2008 19:21

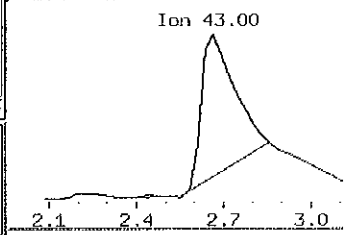
+ 116 Tetrachloroeth
+ 119 2-Hexanone
+ 120 Dibromochlorom
+ 122 1,2-Dibromoeth
+ 126 Chlorobenzene
+ 128 Ethyl Benzene
+ 130 m,p-Xylene
+ 132 o-Xylene
+ 133 Styrene
+ 134 Bromoform
+ 141 1,1,2,2-Tetracl
+ 144 4-Ethyltoluene
+ 147 1,3,5-Trimethy
+ 152 1,2,4-Trimethy
+ 155 1,3-Dichlorobe
+ 156 1,4-Dichlorobe
+ 157 alpha-Chloroto
+ 159 1,2-Dichlorobe
+ 163 1,2,4-Trichlor
+ 164 Hexachlorobuta
+ 142 Propylbenzene
+ 136 Cumene
+ 17 Isopentane
+ 11 Butane
+ 94 Methyl Cyclohe

c042419.d
c042420.d
c042421.d
c042424.d





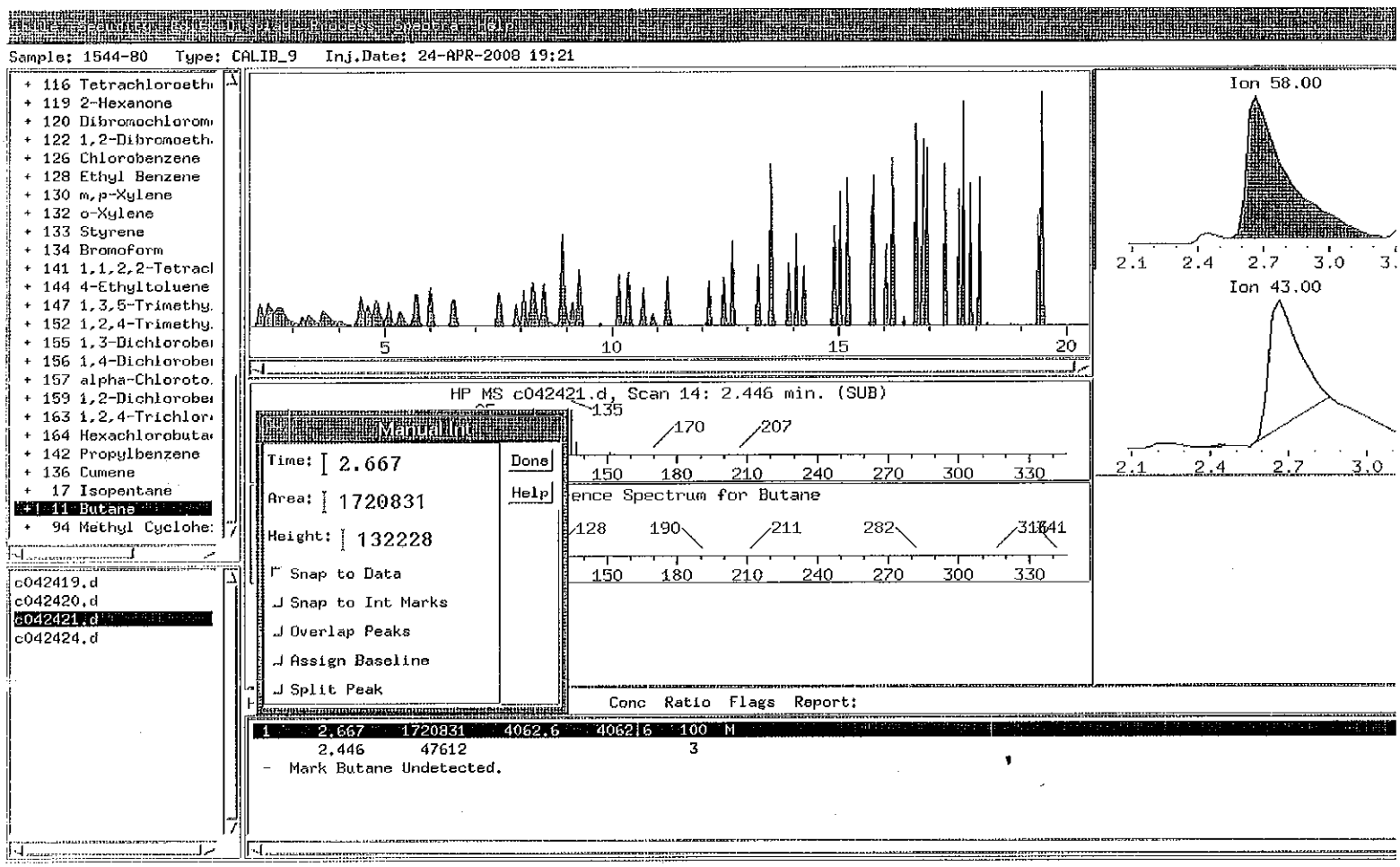




Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	2.446	37553	687.80	687.80	100		
	2.446	47612			127		
2	2.667	924703	16936	16936	100	TA	
	2.667	6118463			662		

- Mark Butane Undetected.

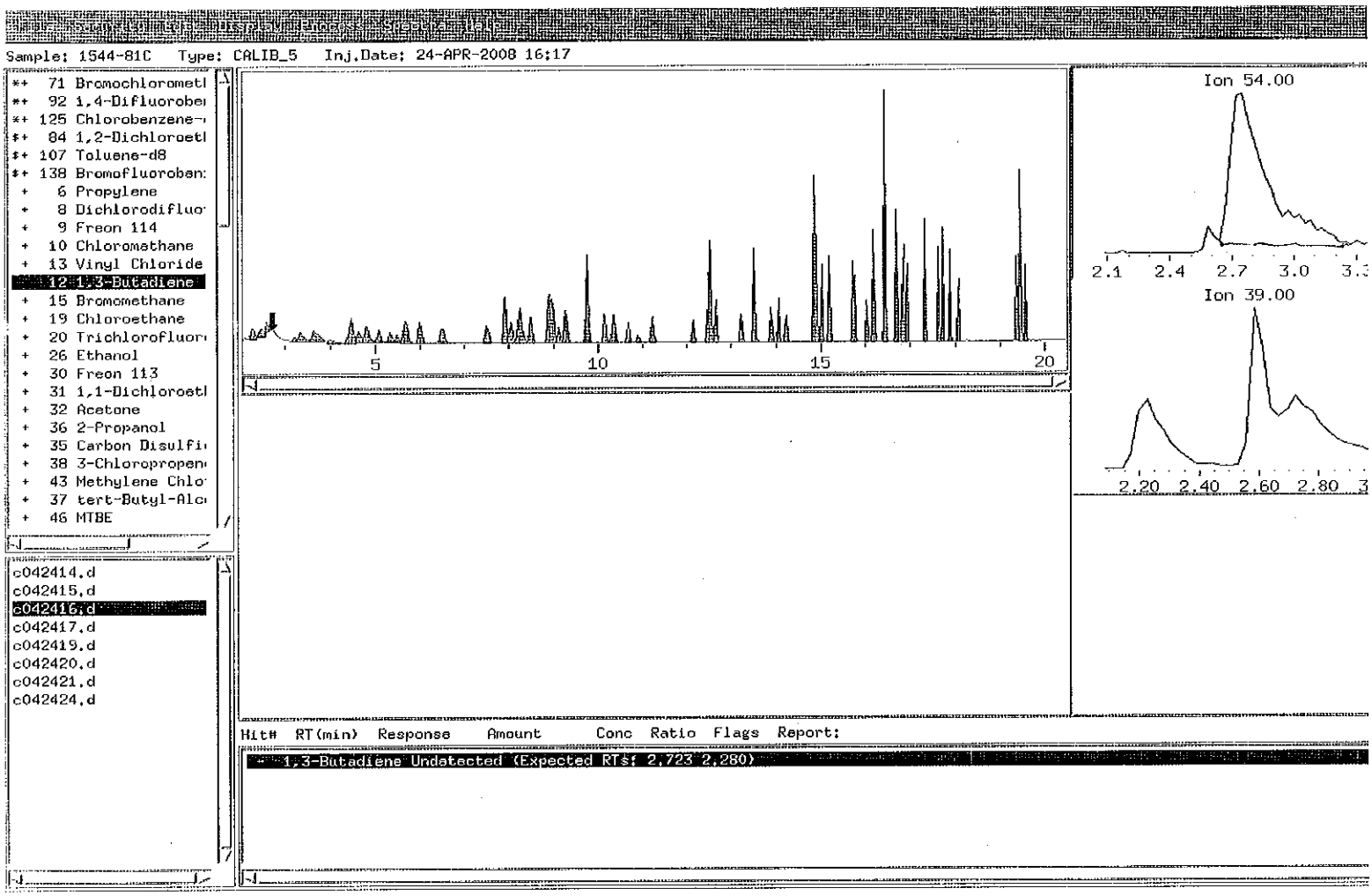
Before
4/28/2008
MC



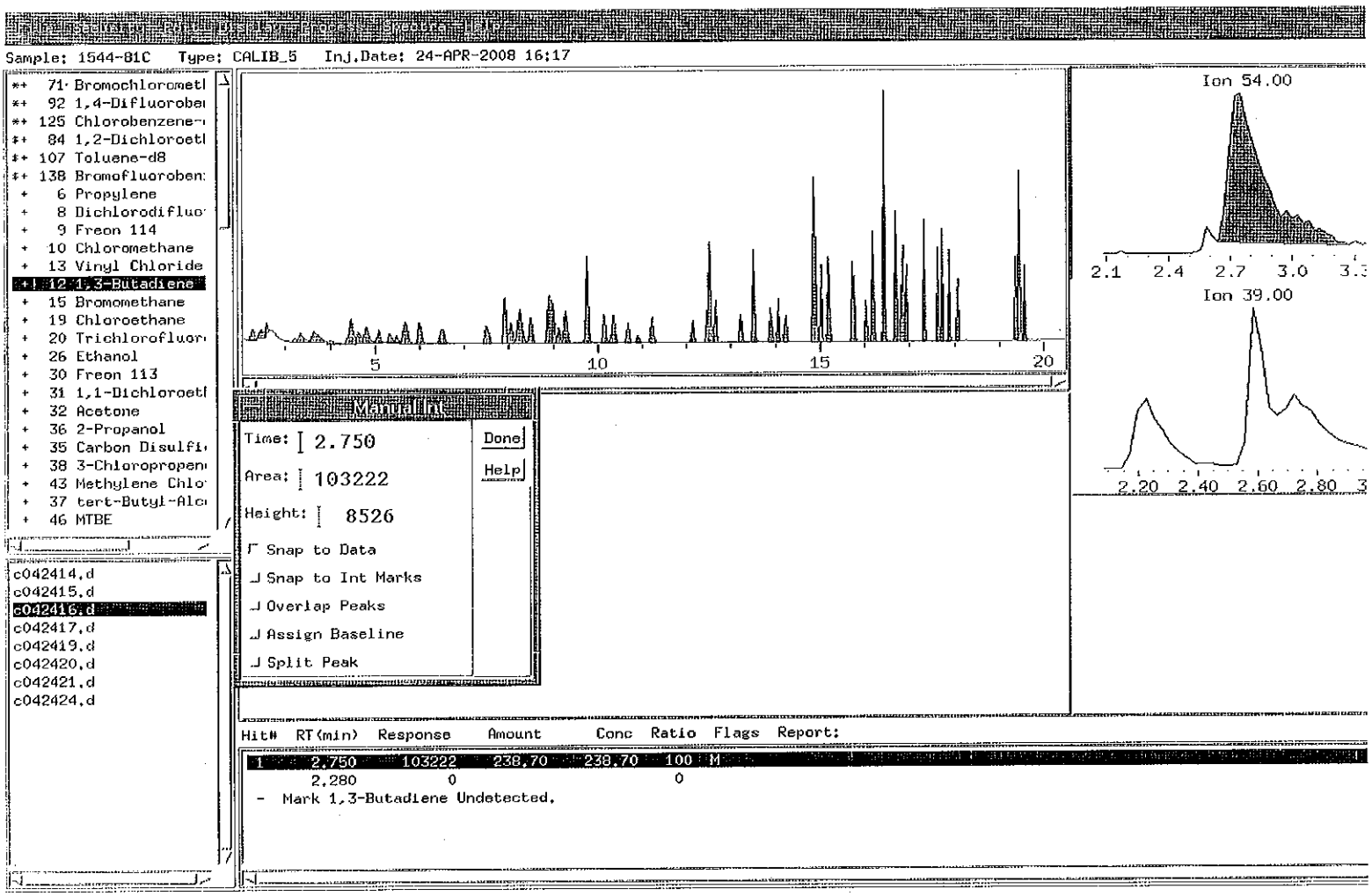
After
4/28/2008
MW

Correct Baseline	NA
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	✓

Li 4/28/08



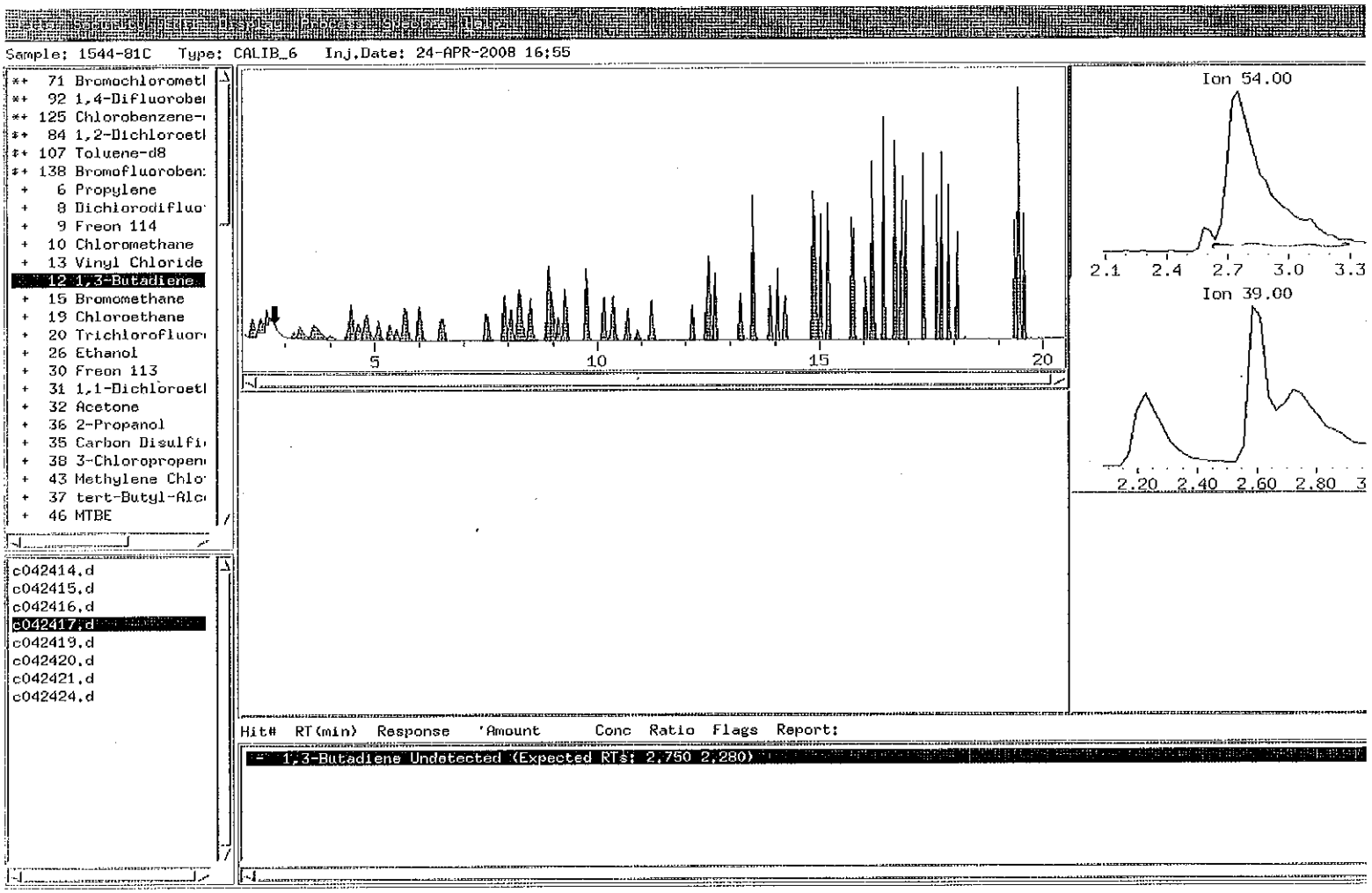
Before
4/28/2008
MW



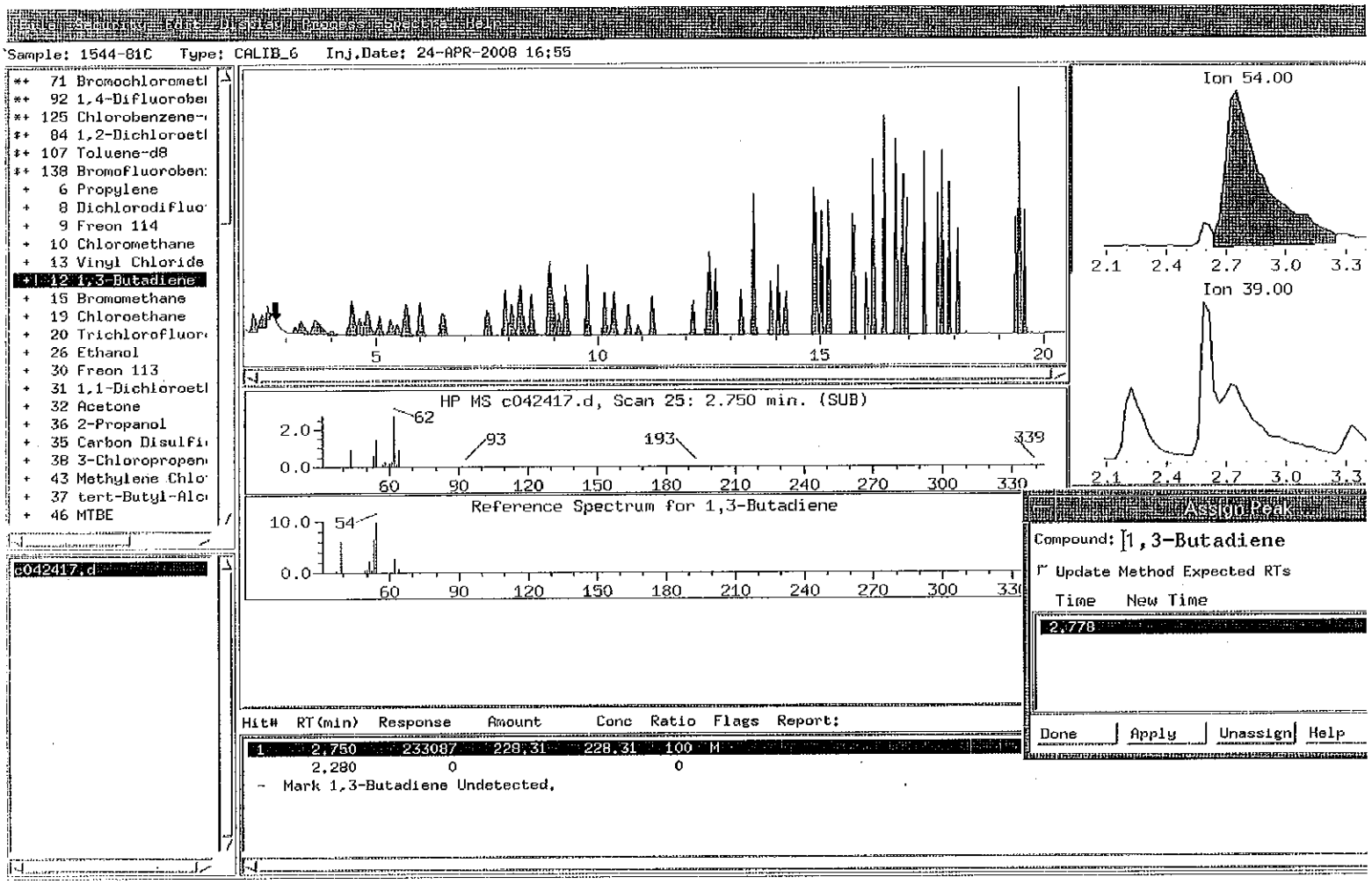
After
4/28/2008
MW

Correct Baseline	
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	✓
Corrected Peak Integration	✓

4/28/08



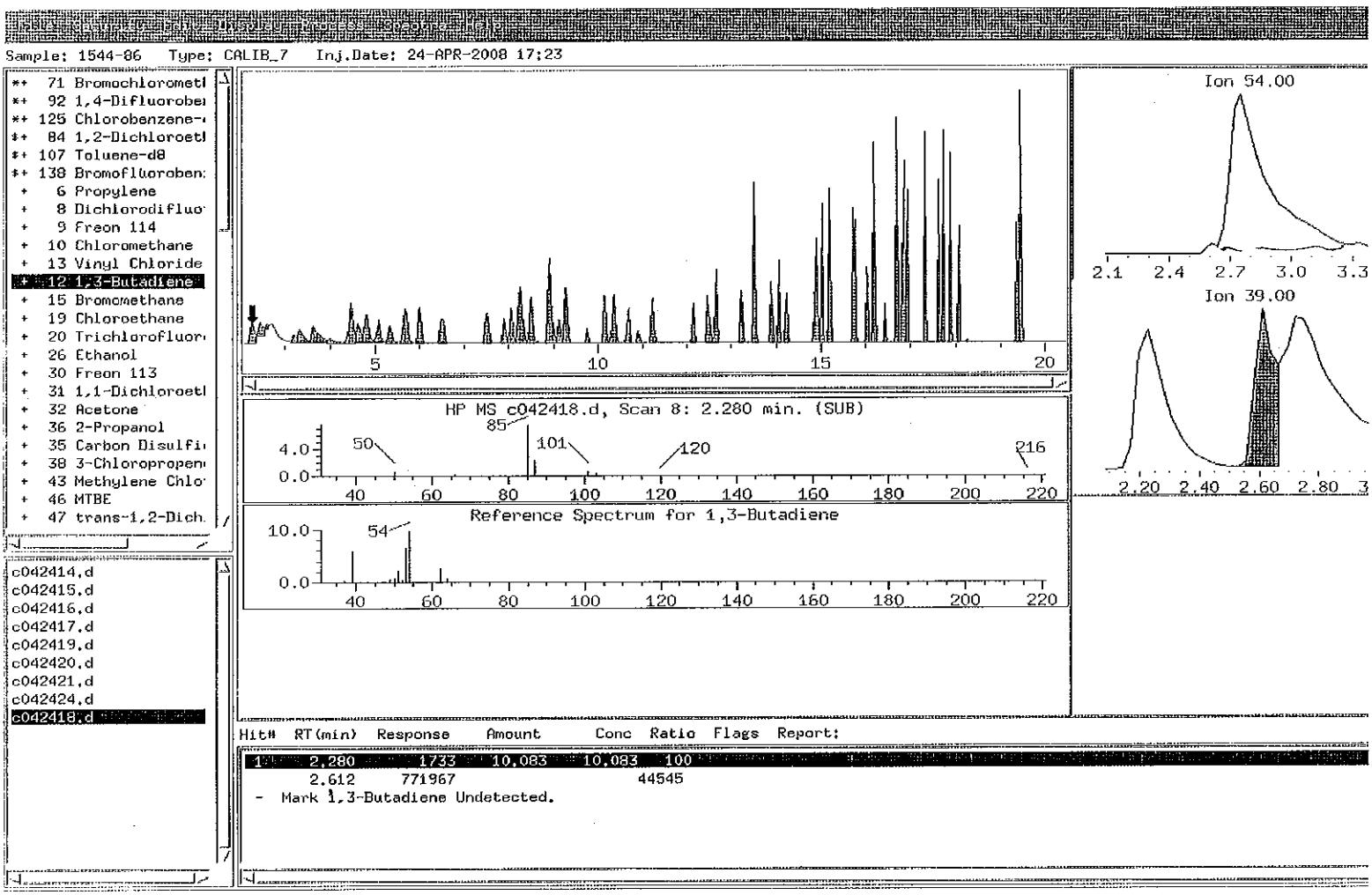
Before
4/28/2008
MW



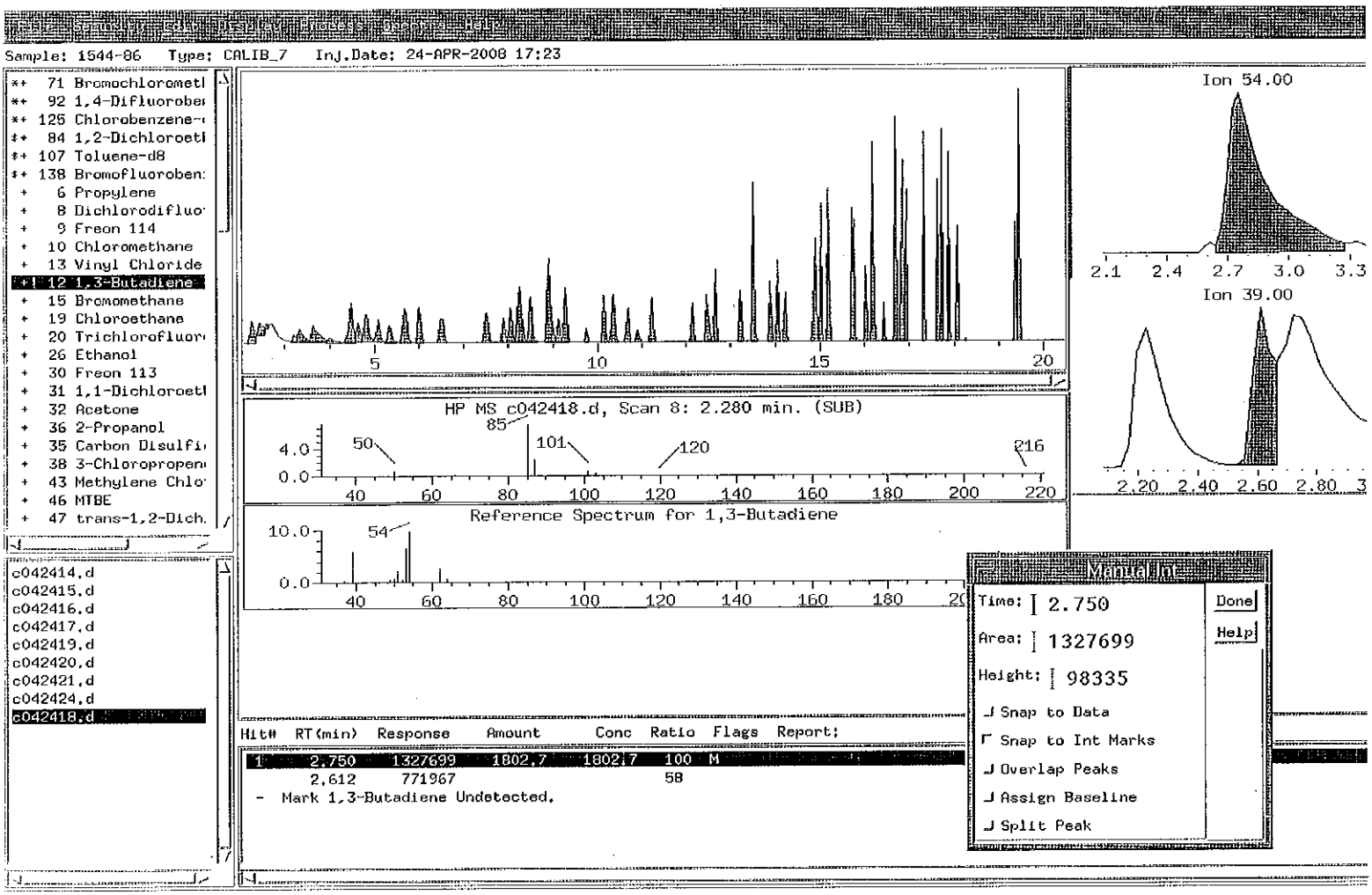
After Harbor New

Correct Baseline	NA
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	√
Corrected Peak Integration	√

04/28/08



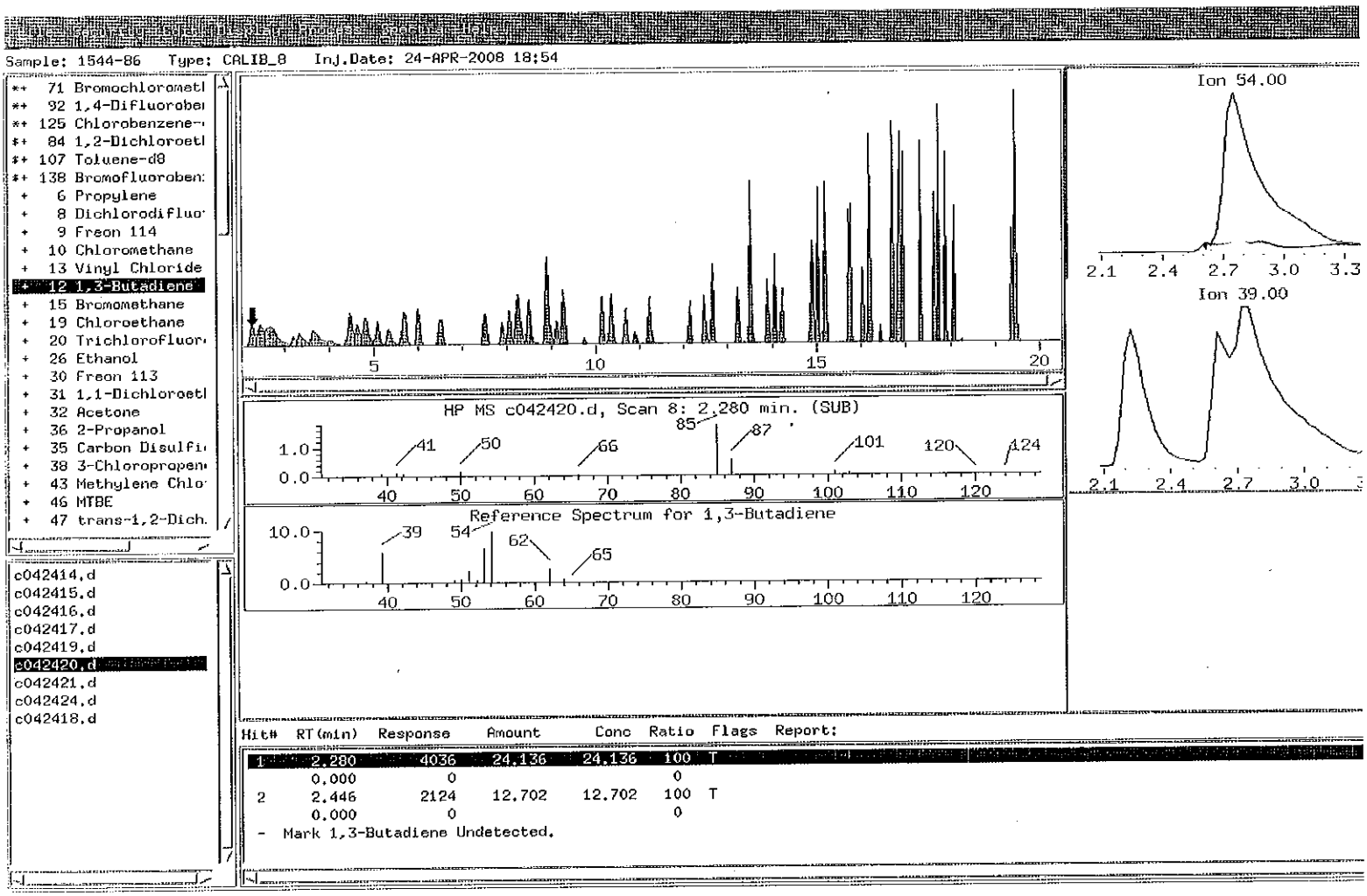
Before
4/29/2008
Rec



Correct Baseline	✓
Split Peak	N/A
Zoom In	
Change Parameter	
Background Subtraction	

4/28/2008

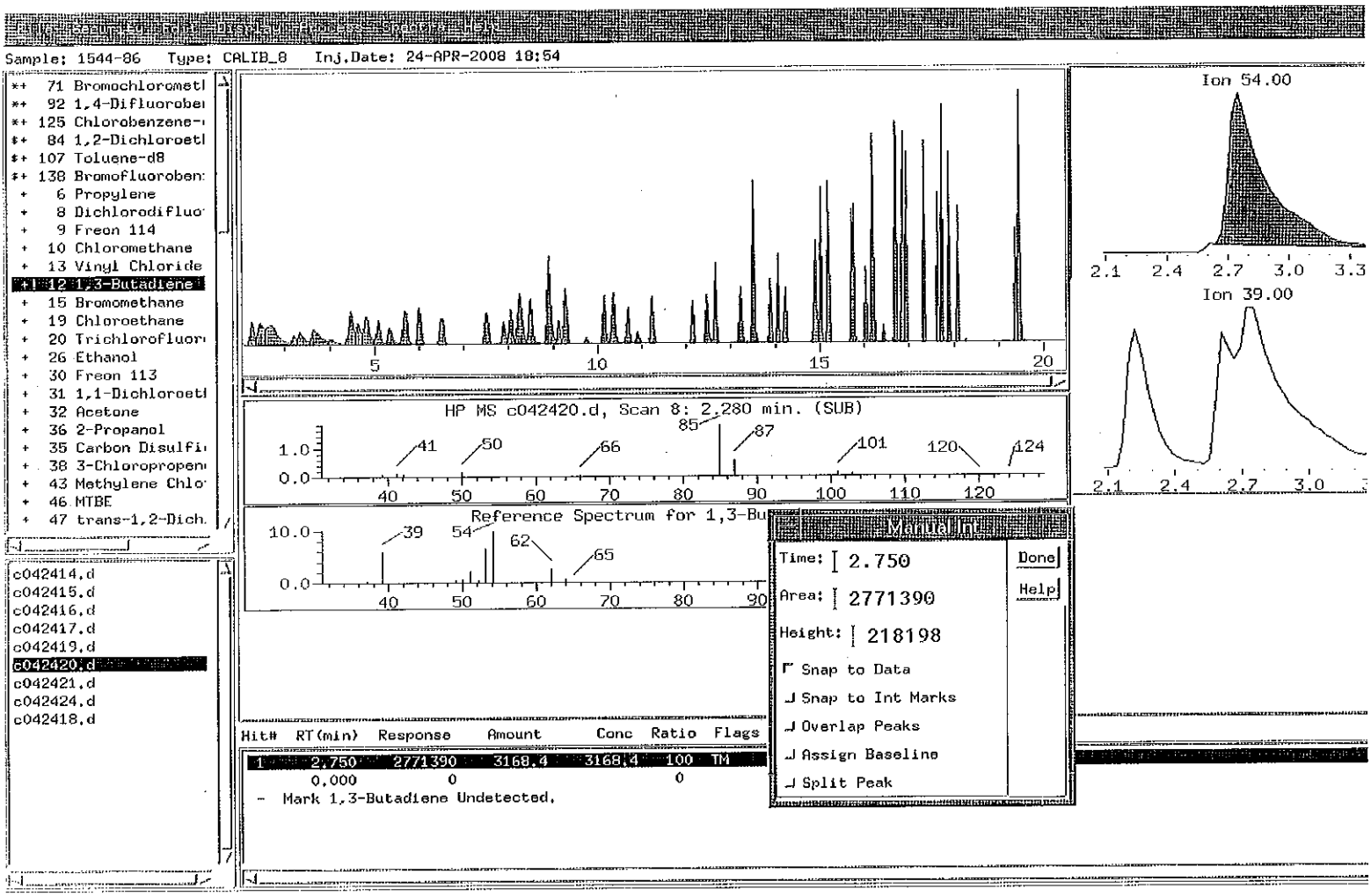
AHOV
4/28/2008
MW



Before 4/28/2008
After
4/28/2008
MW

4/28/2008

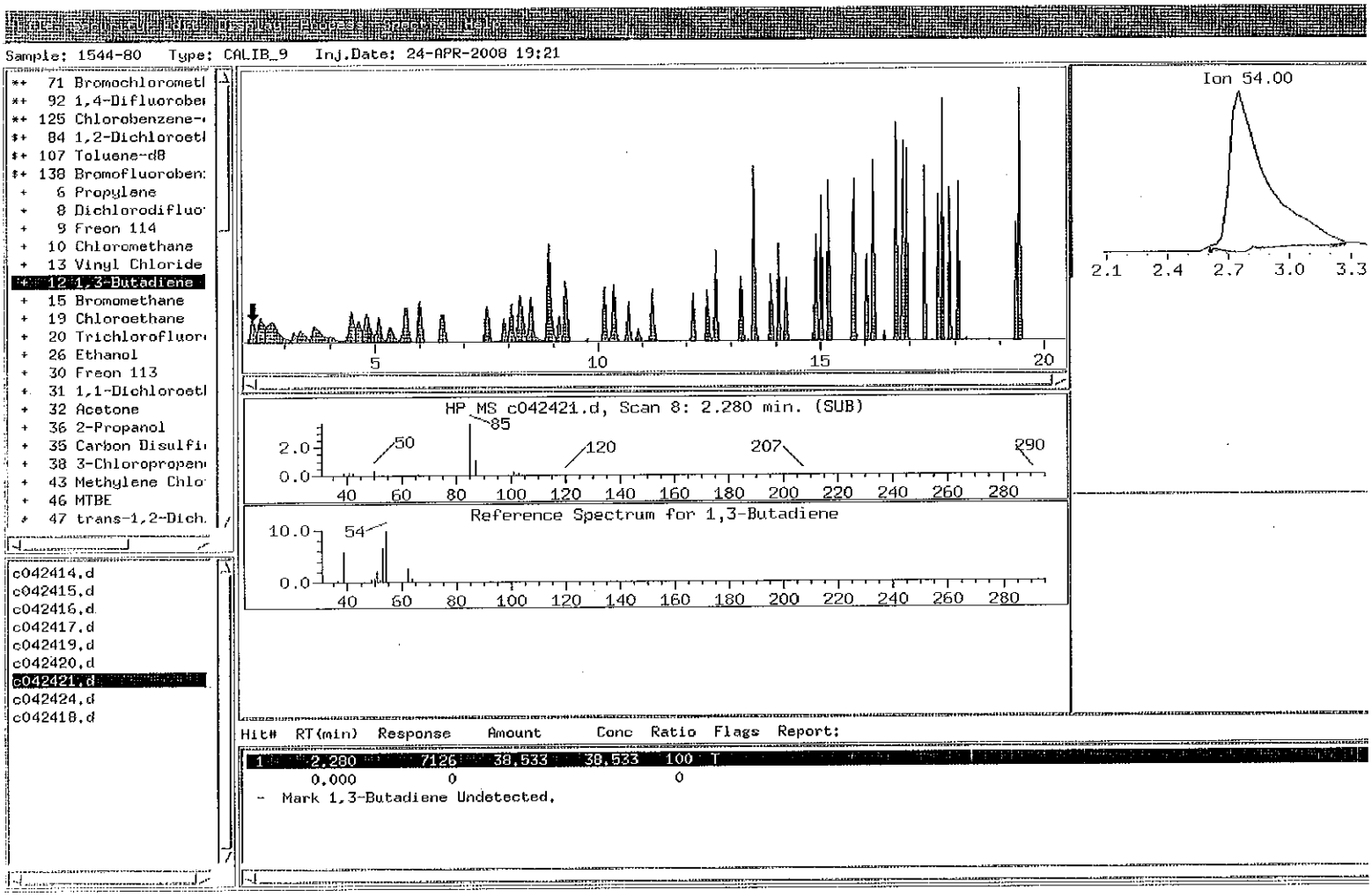
Correct Baseline	NA
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	



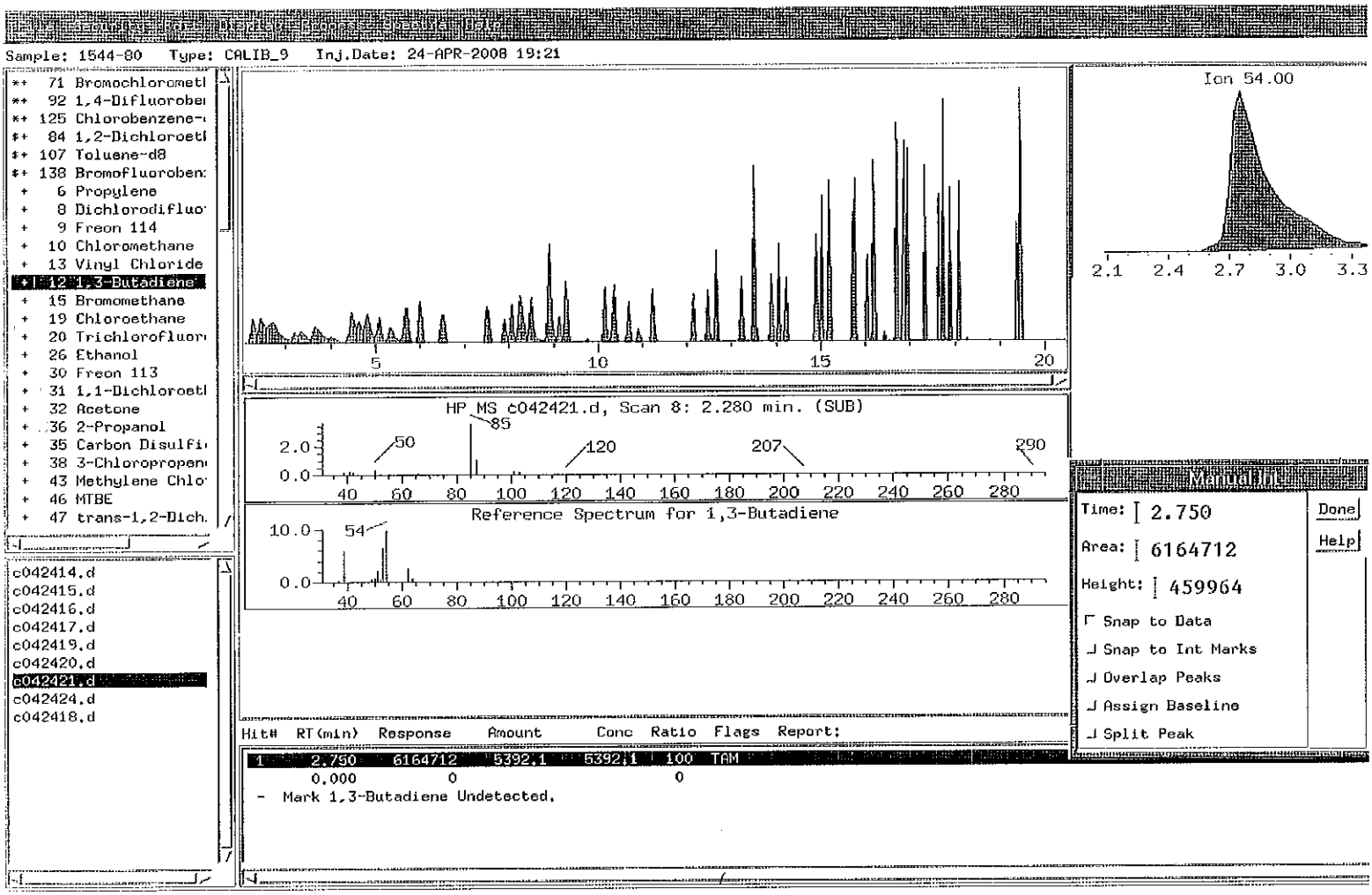
4/28/2008 JW

Correct Baseline	NA
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	✓
Corrected Peak Integration	✓

L: 4/28/08



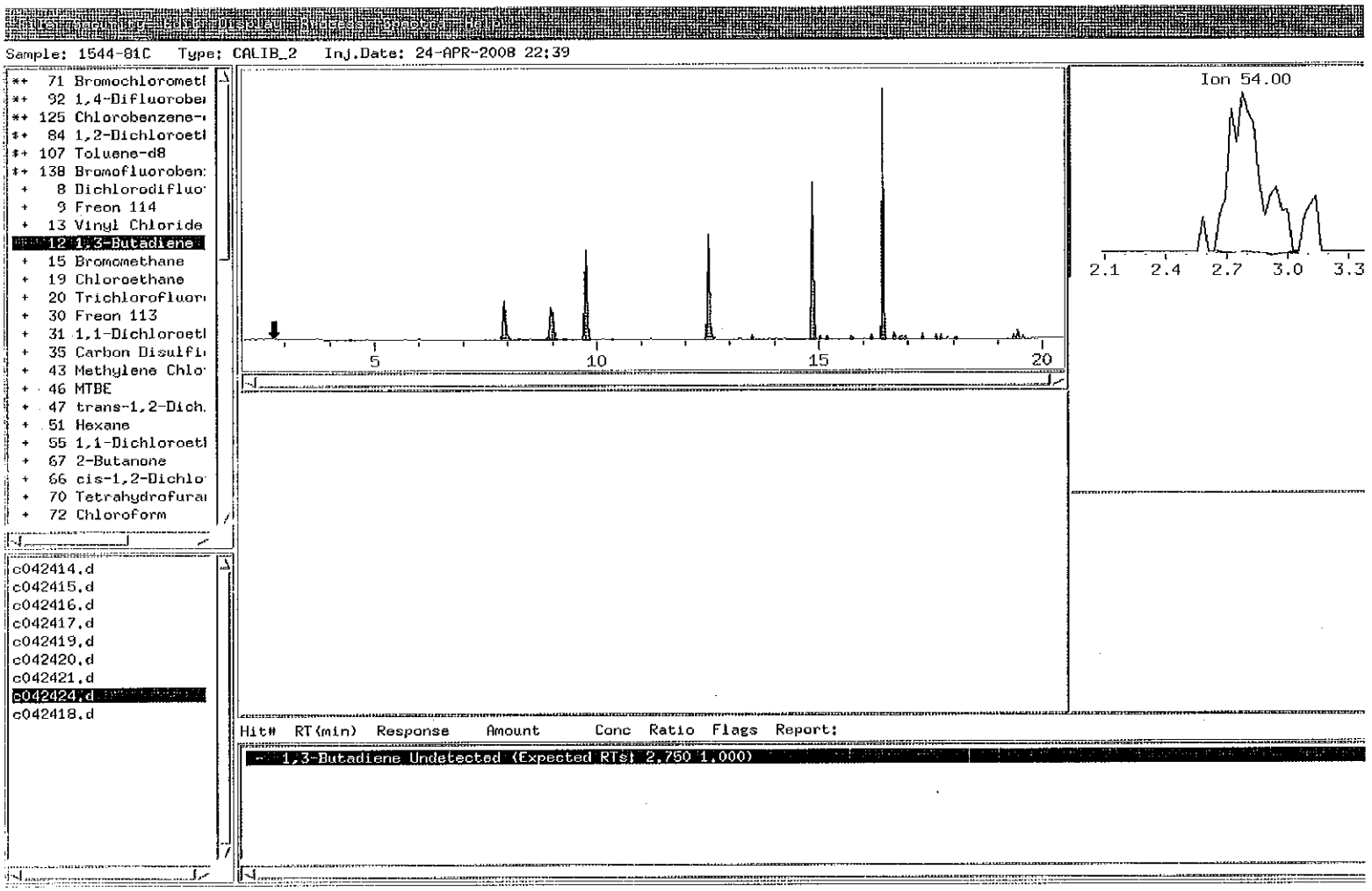
Before
4/28/2008
New



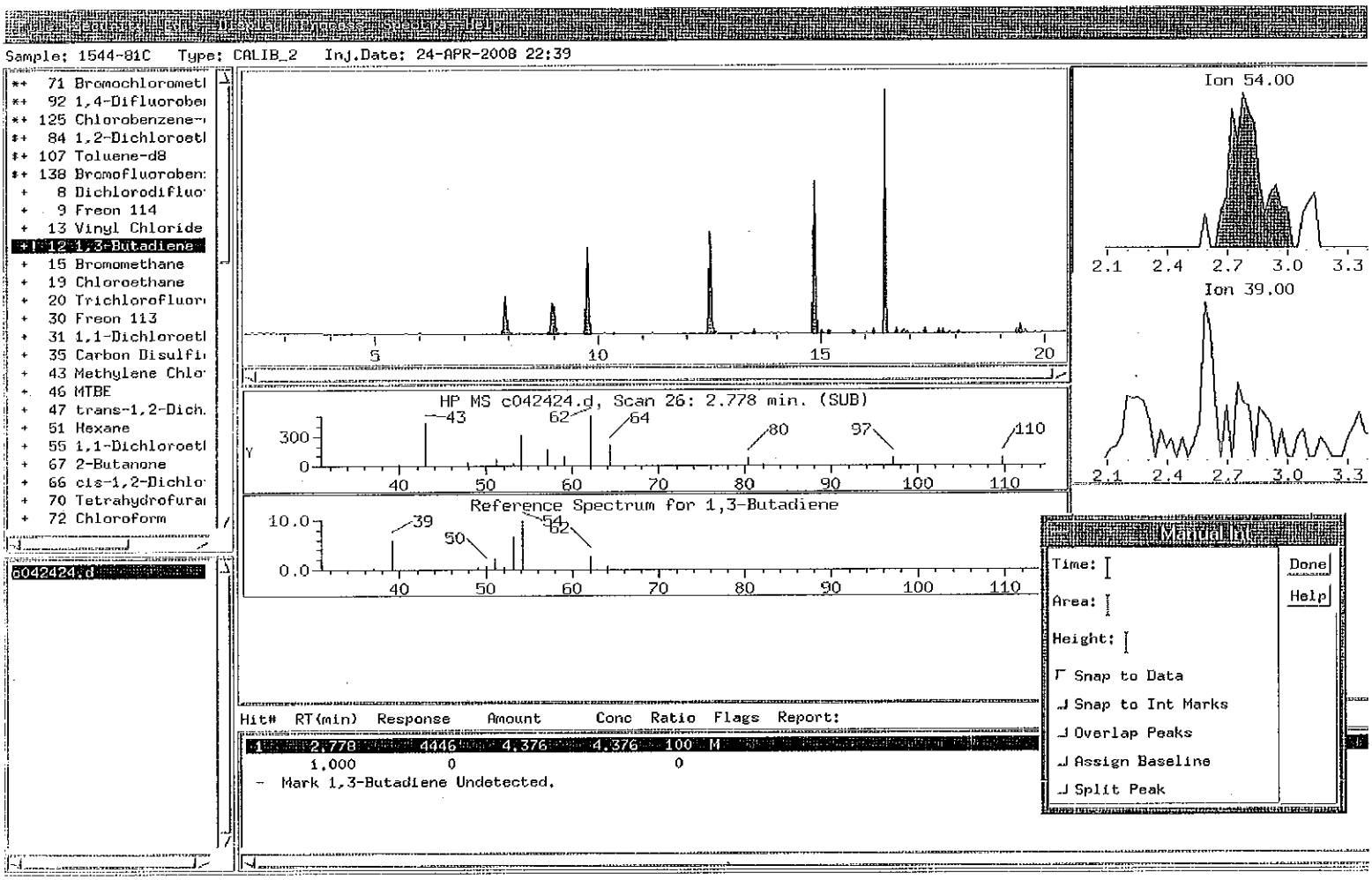
After
4/28/2008
New

Correct Baseline	NA
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	↓
Corrected Peak Integration	✓

4/28/08



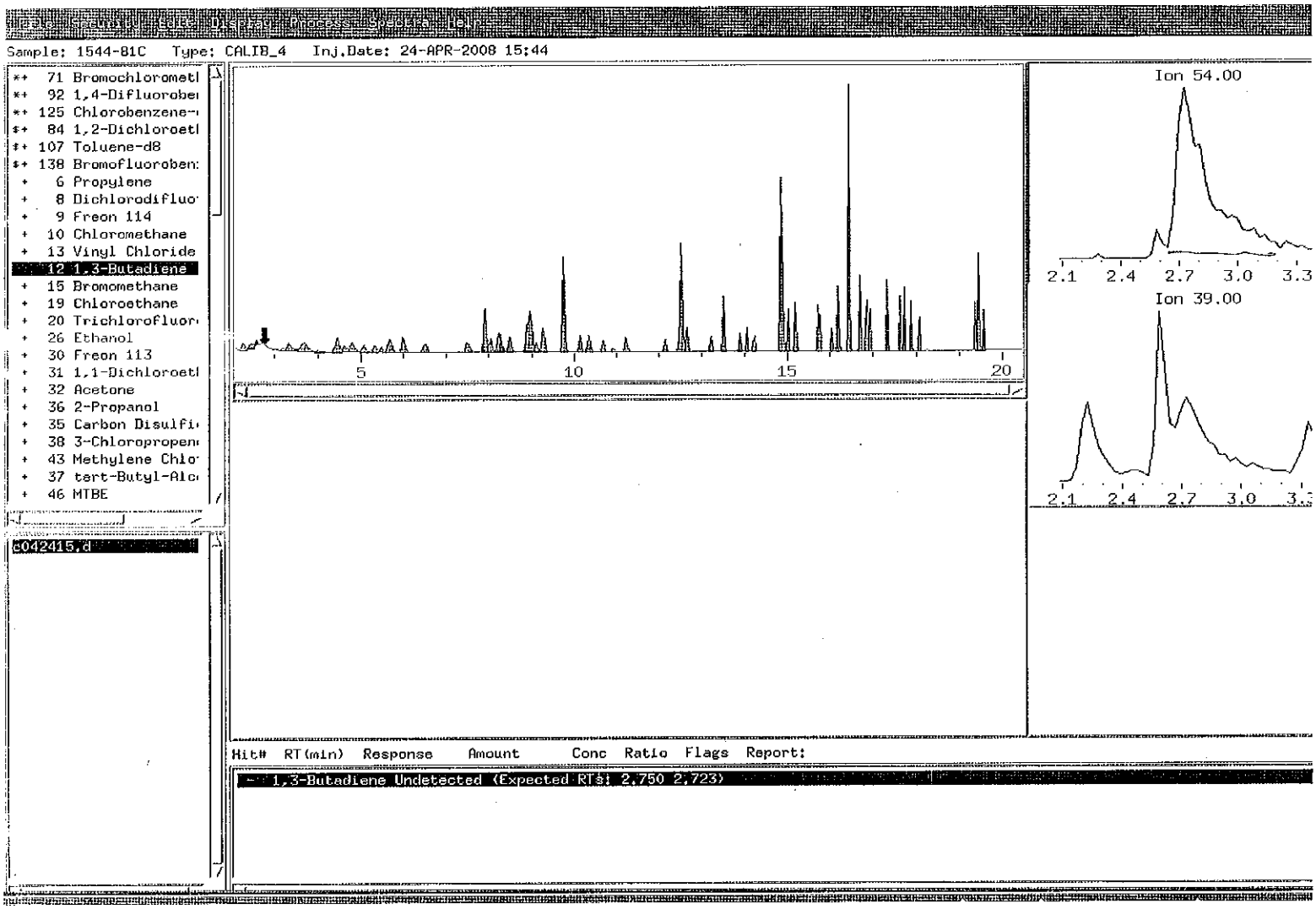
Before
4/25/2008
MW



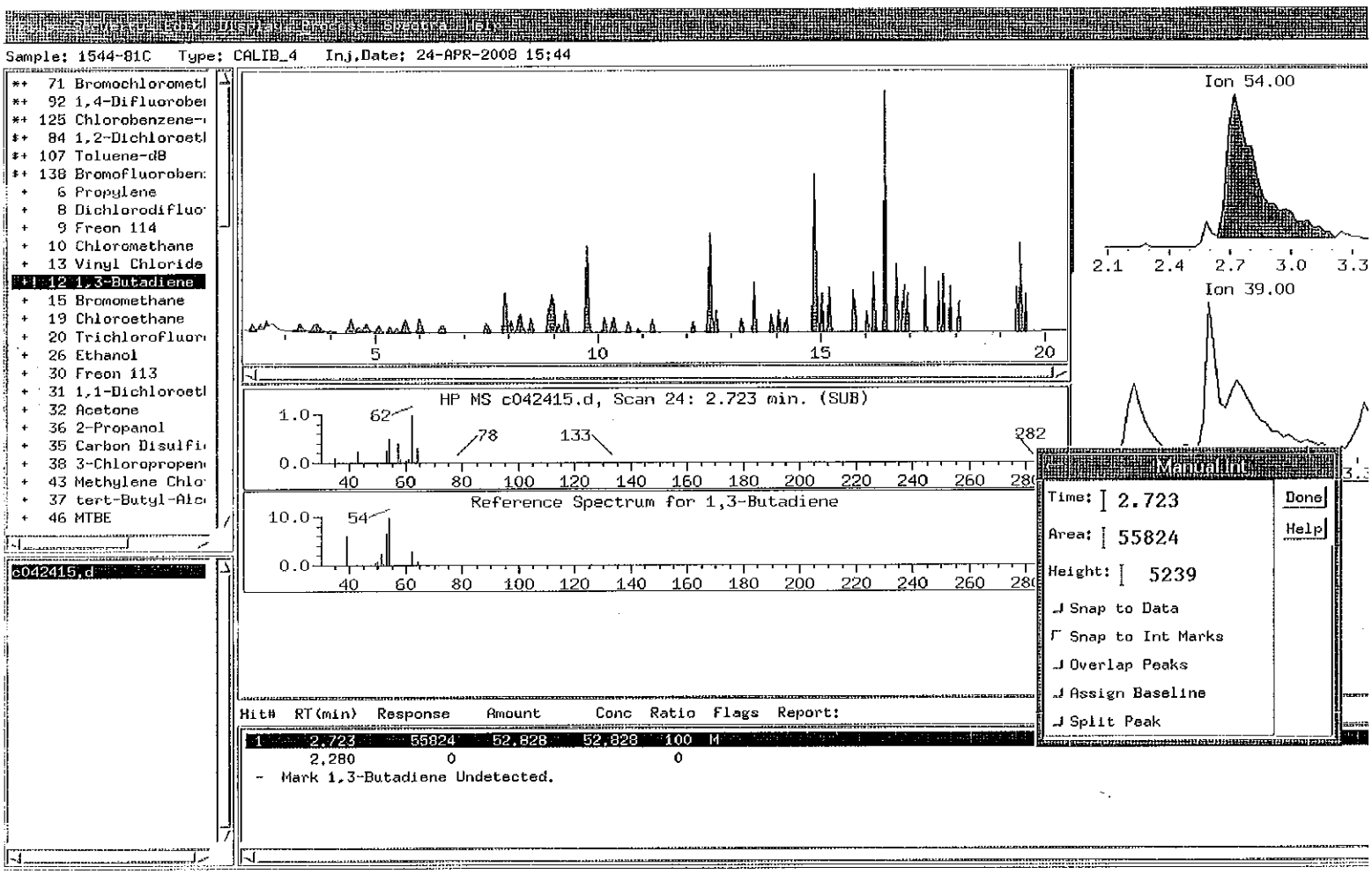
After
4/28/2008
mcv

Correct Baseline	
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

LI 4/28/08



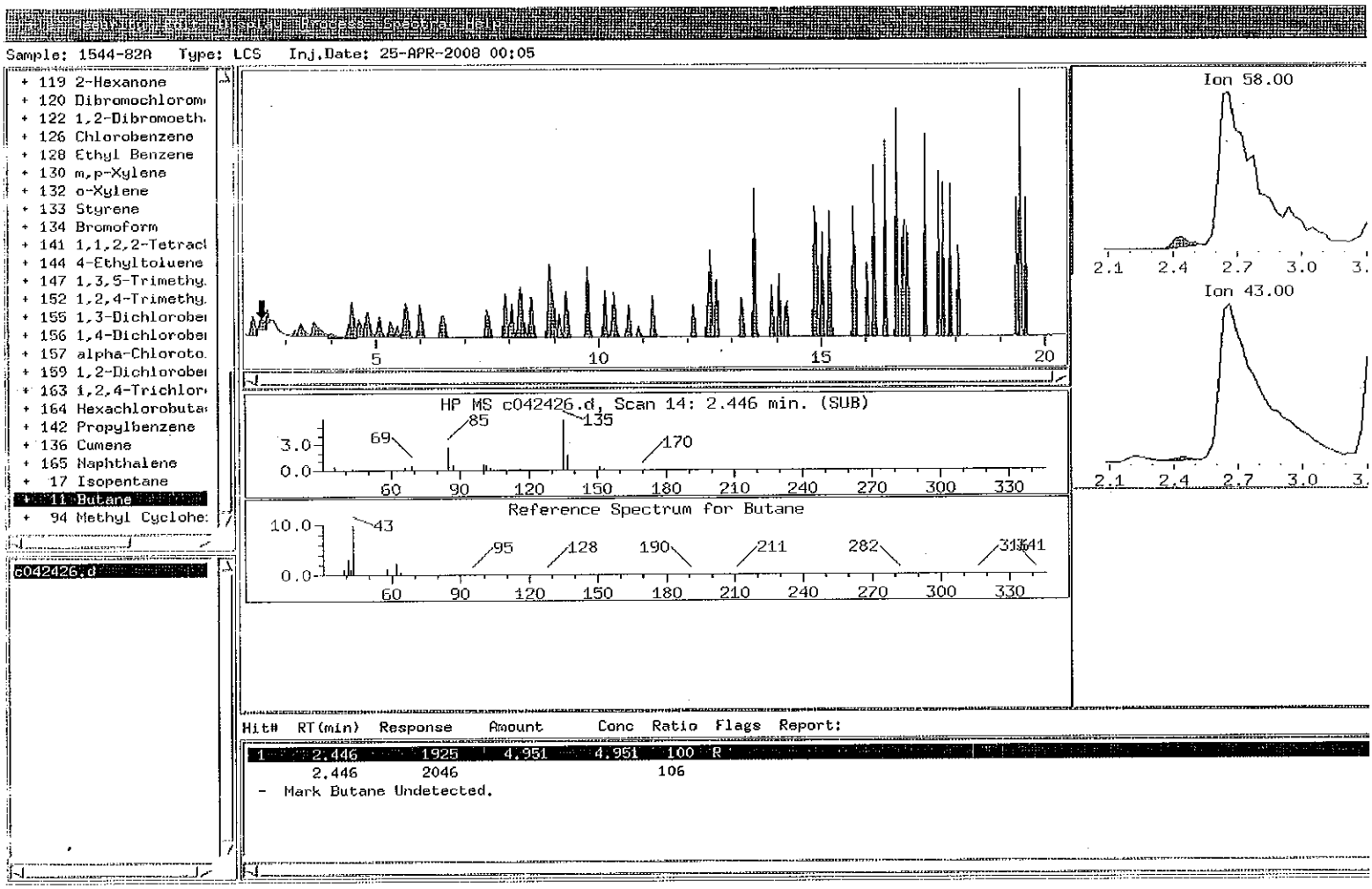
Before
4/28/2008
MC



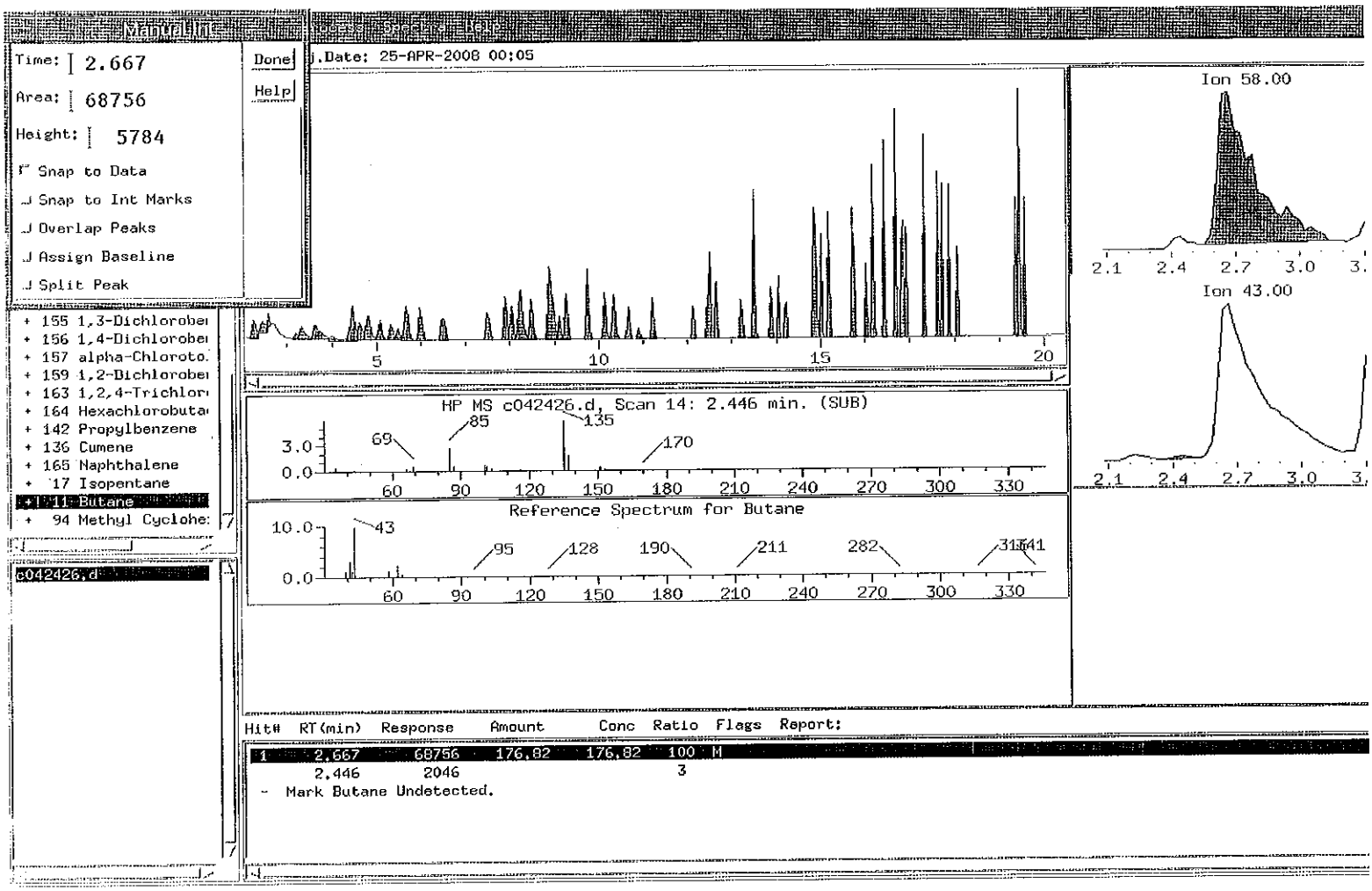
After
4/25/2008
MC

Correct Baseline	✓
Split Peak	MR
Zoom In	
Change Parameter	
Background Subtraction	↓

4/28/08



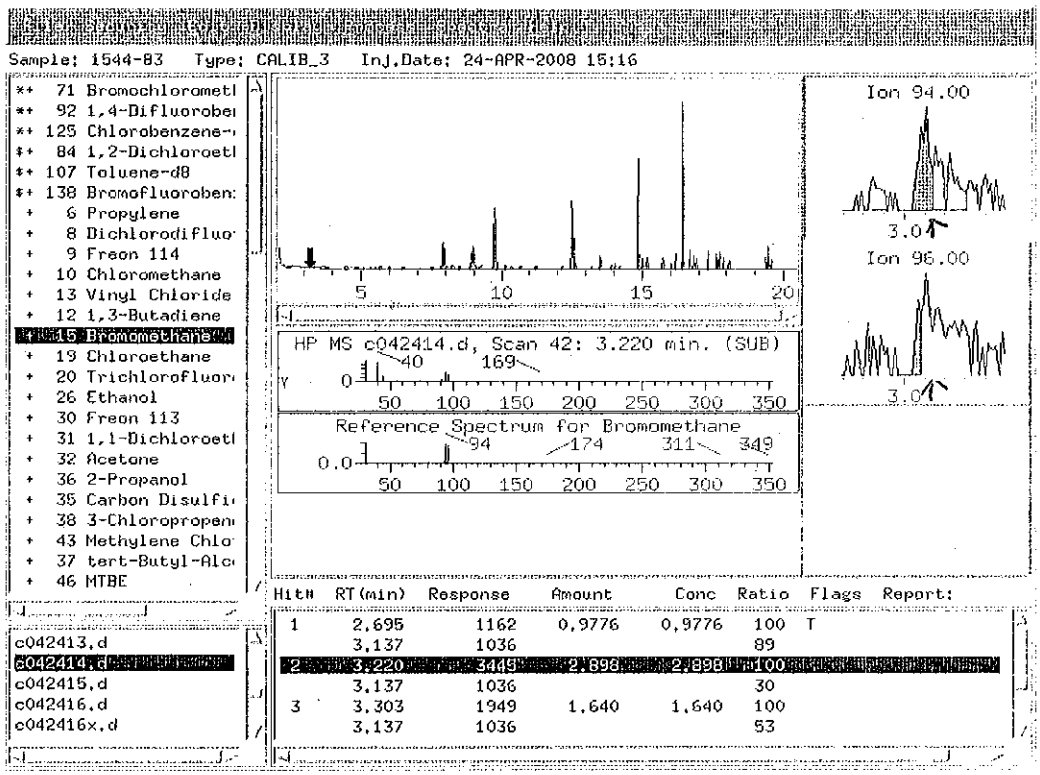
Before
4/28/2008
MW



After
4/28/2008
MW

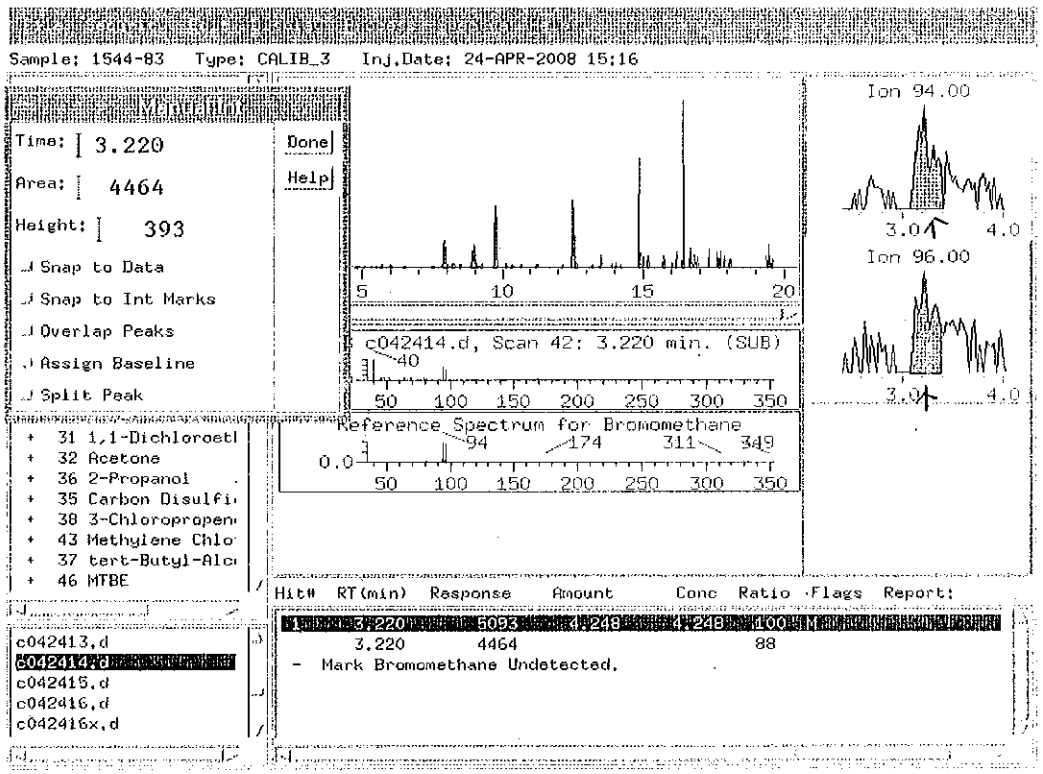
Correct Baseline	NO
Split Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	✓
Peak Misidentified	
Corrected Peak Integration	✓

4/28/08



Before : Incorrect integration.

W 4128108



After 4/28/08

Correct Baseline	✓
Split Peak	NR
Zoom In	
Change Parameter	
Background Subtraction	

4/28/2008 MJ

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042426.d
Lab Smp Id: 1544-82A Client Smp ID: LCS
Inj Date : 25-APR-2008 00:05
Operator : JP Inst ID: msdc.i
Smp Info : 50mL,22506
Misc Info : LCS
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 28-Apr-2008 13:08 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)		
RT	EXP RT (REL RT)	MASS	RESPONSE			TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	418798	400.000		80.00- 120.00	100.00
7.921	7.921 (1.000)	128	329627			48.74- 108.74	78.71
7.893	7.921 (1.000)	49	500480			89.05- 149.05	119.50
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.745 (1.000)	114	1899015	400.000		80.00- 120.00	100.00
9.746	9.745 (1.000)	88	335639			0.00- 47.75	17.67
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1570452	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	994041			0.00- 30.00	63.30
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.971	8.971 (1.133)	65	808607	396.434	396.43	80.00- 120.00	100.00
8.971	8.971 (1.133)	67	392233			0.00- 30.00	48.51
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.511	12.510 (1.284)	98	1843915	389.406	389.40	80.00- 120.00	100.00
12.511	12.510 (1.284)	70	217569			0.00- 30.00	11.80

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.511	12.510 (1.284)	100	1296291			0.00- 30.00	70.30
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1024162	409.154	409.15	80.00- 120.00	100.00
16.437	16.437 (1.106)	95	1481747			118.92- 178.92	144.68
16.437	16.437 (1.106)	176	980031			66.54- 126.54	95.69
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	215938	189.292	189.29	80.00- 120.00	100.00
2.225	2.225 (0.281)	42	142652			0.00- 30.00	66.06
2.225	2.225 (0.281)	39	172045			0.00- 30.00	79.67
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.253	2.280 (0.284)	85	960431	189.254	189.25	80.00- 120.00	100.00
2.253	2.280 (0.284)	87	307686			0.00- 30.00	32.04
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	719659	190.613	190.61	80.00- 120.00	100.00
2.446	2.446 (0.309)	137	226201			1.97- 61.97	31.43
10 Chloromethane					CAS #: 74-87-3		
2.529	2.529 (0.319)	50	352505	186.099	186.10	80.00- 120.00	100.00
2.529	2.529 (0.319)	52	95896			0.00- 30.00	27.20
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	356502	193.549	193.55	80.00- 120.00	100.00
2.695	2.695 (0.340)	64	107924			0.00- 30.00	30.27
12 1,3-Butadiene					CAS #: 106-99-0		
2.723	2.750 (0.344)	54	195585	184.535	184.54	80.00- 120.00	100.00
2.723	2.723 (0.344)	39	261070			0.00- 30.00	133.48
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	272343	224.818	224.82	80.00- 120.00	100.00
3.193	3.193 (0.403)	96	255978			61.22- 121.22	93.99
19 Chloroethane					CAS #: 75-00-3		
3.359	3.358 (0.424)	64	181637	224.014	224.01	80.00- 120.00	100.00
3.359	3.358 (0.424)	49	42659			0.00- 30.00	23.49
3.331	3.358 (0.421)	66	53325			0.00- 30.00	29.36
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.635	3.635 (0.459)	101	1215656	196.116	196.12	80.00- 120.00	100.00
3.635	3.635 (0.459)	103	782907			33.86- 93.86	64.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.022	4.022 (0.508)	45	114501	181.383	181.38	80.00- 120.00	100.00
3.994	4.022 (0.504)	43	38670			0.00- 30.00	33.77
4.022	4.022 (0.508)	46	47740			0.00- 30.00	41.69
30 Freon 113					CAS #: 76-13-1		
4.437	4.464 (0.560)	151	585960	212.250	212.25	80.00- 120.00	100.00
4.437	4.464 (0.560)	153	367173			32.85- 92.85	62.66
4.437	4.437 (0.560)	101	606964			74.79- 134.79	103.58
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.465	4.464 (0.564)	61	763530	196.461	196.46	80.00- 120.00	100.00
4.465	4.464 (0.564)	96	443115			25.95- 85.95	58.04
4.465	4.464 (0.564)	98	277713			5.66- 65.66	36.37
32 Acetone					CAS #: 67-64-1		
4.630	4.658 (0.585)	58	173309	189.306	189.30	80.00- 120.00	100.00
4.630	4.658 (0.585)	43	605609			0.00- 30.00	349.44
36 2-Propanol					CAS #: 67-63-0		
4.824	4.852 (0.609)	45	624441	206.138	206.14	80.00- 120.00	100.00
4.824	4.852 (0.609)	43	160948			0.00- 30.00	25.77
4.824	4.852 (0.609)	59	27025			0.00- 30.00	4.33
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	1048881	204.331	204.33	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	222500	191.852	191.85	80.00- 120.00	100.00
5.073	5.073 (0.640)	41	438040			0.00- 30.00	196.87
43 Methylene Chloride					CAS #: 75-09-2		
5.322	5.349 (0.672)	49	390892	180.696	180.70	80.00- 120.00	100.00
5.349	5.349 (0.675)	84	345370			55.67- 115.67	88.35
5.322	5.349 (0.672)	51	124230			0.00- 30.00	31.78
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.488	5.487 (0.693)	59	466456	187.061	187.06	80.00- 120.00	100.00
5.488	5.487 (0.693)	41	95759			0.00- 30.00	20.53
5.488	5.487 (0.693)	57	52849			0.00- 30.00	11.33
46 MTBE					CAS #: 1634-04-4		
5.653	5.653 (0.714)	73	566903	228.898	228.90	80.00- 120.00	100.00
5.653	5.653 (0.714)	57	107995			0.00- 48.79	19.05
5.626	5.653 (0.710)	41	107157			0.00- 30.00	18.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.681	5.709 (0.717)	96	429190	200.143	200.14	80.00- 120.00	100.00
5.681	5.681 (0.717)	61	619479			119.69- 179.69	144.34
5.681	5.709 (0.717)	98	272704			0.00- 30.00	63.54
51 Hexane					CAS #: 110-54-3		
5.985	6.013 (0.756)	57	632153	194.461	194.46	80.00- 120.00	100.00
5.985	6.013 (0.756)	43	370648			0.00- 30.00	58.63
5.985	6.013 (0.756)	86	127553			0.00- 30.00	20.18
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.455	6.483 (0.815)	63	761681	202.276	202.28	80.00- 120.00	100.00
6.455	6.483 (0.815)	65	241014			1.47- 61.47	31.64
67 2-Butanone					CAS #: 78-93-3		
7.534	7.534 (0.951)	72	196697	193.396	193.40	80.00- 120.00	100.00
7.534	7.534 (0.951)	43	721681			333.51- 393.51	366.90
7.534	7.534 (0.951)	57	64002			0.00- 30.00	32.54
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.478	7.478 (0.944)	61	574795	196.263	196.26	80.00- 120.00	100.00
7.478	7.478 (0.944)	96	421055			42.16- 102.16	73.25
7.478	7.478 (0.944)	98	262505			15.86- 75.86	45.67
70 Tetrahydrofuran					CAS #: 109-99-9		
7.893	7.893 (0.996)	42	385235	197.287	197.29	80.00- 120.00	100.00
7.893	7.893 (0.996)	71	179763			17.18- 77.18	46.66
7.893	7.893 (0.996)	72	195962			0.00- 30.00	50.87
72 Chloroform					CAS #: 67-66-3		
8.031	8.031 (1.014)	83	952902	195.897	195.90	80.00- 120.00	100.00
8.031	8.031 (1.014)	85	600278			33.60- 93.60	62.99
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.252	8.280 (1.042)	97	985693	202.667	202.67	80.00- 120.00	100.00
8.252	8.280 (1.042)	99	633665			32.77- 92.77	64.29
74 Cyclohexane					CAS #: 110-82-7		
8.225	8.225 (1.038)	84	569903	207.395	207.39	80.00- 120.00	100.00
8.225	8.225 (1.038)	56	598253			74.35- 134.35	104.97
8.225	8.225 (1.038)	41	338917			29.63- 89.63	59.47
56 Vinyl Acetate					CAS #: 108-05-4		
6.538	6.538 (0.825)	86	110661	192.741	192.74	80.00- 120.00	100.00
6.538	6.538 (0.825)	43	983414			0.00- 30.00	888.67
6.538	6.538 (0.825)	42	92488			0.00- 30.00	83.58

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.474	8.501 (1.070)	119	1103074	203.240	203.24	80.00- 120.00	100.00
8.474	8.501 (1.070)	117	1154176			74.30- 134.30	104.63
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.888	8.888 (1.122)	57	1828857	199.170	199.17	80.00- 120.00	100.00
8.888	8.888 (1.122)	56	548486			0.00- 30.00	29.99
8.888	8.888 (1.122)	41	531847			0.00- 30.00	29.08
81 Benzene					CAS #: 71-43-2		
8.916	8.916 (0.915)	78	1216604	195.033	195.03	80.00- 120.00	100.00
8.916	8.916 (0.915)	77	287443			0.00- 30.00	23.63
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.110	9.110 (0.935)	62	723708	195.303	195.30	80.00- 120.00	100.00
9.110	9.110 (0.935)	64	228772			0.00- 30.00	31.61
90 Heptane					CAS #: 142-82-5		
9.276	9.275 (0.952)	100	148906	176.585	176.58	80.00- 120.00	100.00
9.276	9.275 (0.952)	43	640974			0.00- 30.00	430.46
9.276	9.275 (0.952)	71	440799			0.00- 30.00	296.03
93 Trichloroethene					CAS #: 79-01-6		
10.133	10.133 (1.040)	95	572784	189.441	189.44	80.00- 120.00	100.00
10.133	10.160 (1.040)	130	539120			65.39- 125.39	94.12
10.133	10.133 (1.040)	97	374603			34.09- 94.09	65.40
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.658	10.686 (1.094)	63	386079	193.012	193.01	80.00- 120.00	100.00
10.658	10.686 (1.094)	62	268320			40.41- 100.41	69.50
10.658	10.686 (1.094)	41	274868			42.79- 102.79	71.19
99 1,4-Dioxane					CAS #: 123-91-1		
10.907	10.907 (1.119)	88	272937	192.705	192.70	80.00- 120.00	100.00
10.907	10.907 (1.119)	58	176877			35.04- 95.04	64.81
10.907	10.907 (1.119)	57	61265			0.00- 30.00	22.45
100 Bromodichloromethane					CAS #: 75-27-4		
11.211	11.239 (1.150)	83	993949	191.515	191.52	80.00- 120.00	100.00
11.211	11.239 (1.150)	85	636801			34.08- 94.08	64.07
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.123	12.151 (1.244)	75	672264	190.432	190.43	80.00- 120.00	100.00
12.123	12.151 (1.244)	77	209325			0.86- 60.86	31.14
12.123	12.151 (1.244)	39	361317			24.35- 84.35	53.75

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	179472	193.677	193.68	80.00- 120.00	100.00
12.455	12.455 (1.278)	43	804807			0.00- 30.00	448.43
12.455	12.455 (1.278)	58	331327			0.00- 30.00	184.61
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	1479108	192.566	192.56	80.00- 120.00	100.00
12.649	12.649 (1.298)	92	862441			28.07- 88.07	58.31
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.229	13.229 (0.890)	75	778671	200.480	200.48	80.00- 120.00	100.00
13.229	13.229 (0.890)	77	243104			0.00- 60.00	31.22
13.202	13.229 (0.888)	39	354981			16.18- 76.18	45.59
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	485841	196.575	196.57	80.00- 120.00	100.00
13.506	13.506 (0.909)	99	293730			31.16- 91.16	60.46
13.506	13.506 (0.909)	83	397408			50.03- 110.03	81.80
116 Tetrachloroethene					CAS #: 127-18-4		
13.506	13.506 (0.909)	166	660671	188.551	188.55	80.00- 120.00	100.00
13.506	13.506 (0.909)	129	552647			52.73- 112.73	83.65
13.506	13.506 (0.909)	131	524370			48.38- 108.38	79.37
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	429710	198.467	198.47	80.00- 120.00	100.00
13.893	13.893 (0.935)	43	809219			156.81- 216.81	188.32
13.893	13.893 (0.935)	100	104505			0.00- 30.00	24.32
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	938693	201.220	201.22	80.00- 120.00	100.00
14.059	14.059 (0.946)	127	729369			0.00- 30.00	77.70
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	743638	191.279	191.28	80.00- 120.00	100.00
14.225	14.225 (0.957)	109	692650			62.95- 122.95	93.14
126 Chlorobenzene					CAS #: 108-90-7		
14.888	14.888 (1.002)	112	1156473	192.225	192.22	80.00- 120.00	100.00
14.888	14.888 (1.002)	114	365726			2.29- 62.29	31.62
14.888	14.888 (1.002)	77	742028			35.81- 95.81	64.16
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	579765	187.244	187.24	80.00- 120.00	100.00
15.027	15.027 (1.011)	91	2059585			0.00- 30.00	355.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.192 (1.022)	106	747462	191.440	191.44	80.00- 120.00	100.00
15.193	15.192 (1.022)	91	1717851			0.00- 30.00	229.82
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	712422	194.915	194.92	80.00- 120.00	100.00
15.718	15.718 (1.058)	91	1722403			220.82- 280.82	241.77
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	1146742	205.287	205.29	80.00- 120.00	100.00
15.773	15.773 (1.061)	78	704600			31.74- 91.74	61.44
134 Bromoform					CAS #: 75-25-2		
16.022	16.050 (1.078)	173	864126	204.055	204.05	80.00- 120.00	100.00
16.022	16.050 (1.078)	171	441035			21.07- 81.07	51.04
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	1013454	207.012	207.01	80.00- 120.00	100.00
16.686	16.686 (1.123)	85	647316			33.63- 93.63	63.87
144 4-Ethyltoluene					CAS #: 622-96-8		
16.851	16.851 (1.134)	105	2284910	212.521	212.52	80.00- 120.00	100.00
16.851	16.851 (1.134)	120	638734			0.00- 57.92	27.95
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.934	16.934 (1.140)	105	2015607	208.851	208.85	80.00- 120.00	100.00
16.934	16.934 (1.140)	120	891571			0.00- 30.00	44.23
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.321 (1.166)	105	2188362	208.729	208.73	80.00- 120.00	100.00
17.322	17.321 (1.166)	120	877561			9.81- 69.81	40.10
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	1191482	198.359	198.36	80.00- 120.00	100.00
17.626	17.626 (1.186)	148	765512			0.00- 30.00	64.25
17.626	17.626 (1.186)	111	586347			0.00- 30.00	49.21
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.194)	146	1308063	202.566	202.57	80.00- 120.00	100.00
17.736	17.736 (1.194)	148	825447			0.00- 30.00	63.10
17.736	17.736 (1.194)	111	535486			0.00- 30.00	40.94
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.874 (1.203)	91	2038378	223.960	223.96	80.00- 120.00	100.00
17.875	17.874 (1.203)	126	359487			0.00- 30.00	17.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	1017098	191.503	191.50	80.00- 120.00	100.00
18.096	18.096 (1.218)	148	650142			34.14- 94.14	63.92
18.068	18.096 (1.216)	111	475515			14.99- 74.99	46.75
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.368	19.395 (1.303)	180	645367	194.293	194.29	80.00- 120.00	100.00
19.368	19.395 (1.303)	182	602200			64.84- 124.84	93.31
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.451	19.450 (1.309)	225	724599	208.618	208.62	80.00- 120.00	100.00
19.451	19.450 (1.309)	223	463126			33.24- 93.24	63.91
142 Propylbenzene					CAS #: 103-65-1		
16.686	16.713 (1.123)	91	2703609	199.501	199.50	80.00- 120.00	100.00
16.713	16.713 (1.125)	120	592389			0.00- 30.00	21.91
16.686	16.713 (1.123)	105	102023			0.00- 30.00	3.77
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	2420868	209.729	209.73	80.00- 120.00	100.00
16.188	16.188 (1.089)	120	589794			0.00- 30.00	24.36
16.188	16.188 (1.089)	51	211998			0.00- 30.00	8.76
165 Naphthalene					CAS #: 91-20-3		
19.561	19.561 (1.316)	128	1776584	234.053	234.05	80.00- 120.00	100.00
19.561	19.561 (1.316)	127	238672			0.00- 30.00	13.43
17 Isopentane					CAS #: 78-78-4		
3.331	3.331 (0.421)	43	272049	167.491	167.49	80.00- 120.00	100.00
3.331	3.331 (0.421)	57	257836			0.00- 30.00	94.78
3.331	3.331 (0.421)	72	27396			0.00- 30.00	10.07
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.337)	58	68755	176.824	176.82	80.00- 120.00	100.00(M)
2.446	2.667 (0.309)	43	2046			0.00- 30.00	2.98
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.326	10.354 (1.060)	83	764007	193.040	193.04	80.00- 120.00	100.00
10.326	10.354 (1.060)	98	374165			0.00- 30.00	48.97
10.326	10.354 (1.060)	55	571029			0.00- 30.00	74.74

QC Flag Legend

M - Compound response manually integrated.

Report Date: 28-Apr-2008 13:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042426.d
Lab Smp Id: 1544-82A
Analysis Type: VOA
Quant Type: ISTD
Operator: JP
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: LCS

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	418798	1.00
92 1,4-Difluorobenze	1880051	1128031	2632071	1899015	1.01
125 Chlorobenzene-d5	1629476	977686	2281266	1570452	-3.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 28-Apr-2008 13:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1544-82A Client Smp ID: LCS
Level: LOW Operator: JP
Data Type: MS DATA SampleType: LCS
SpikeList File: ATO4+ENSR.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: LCS

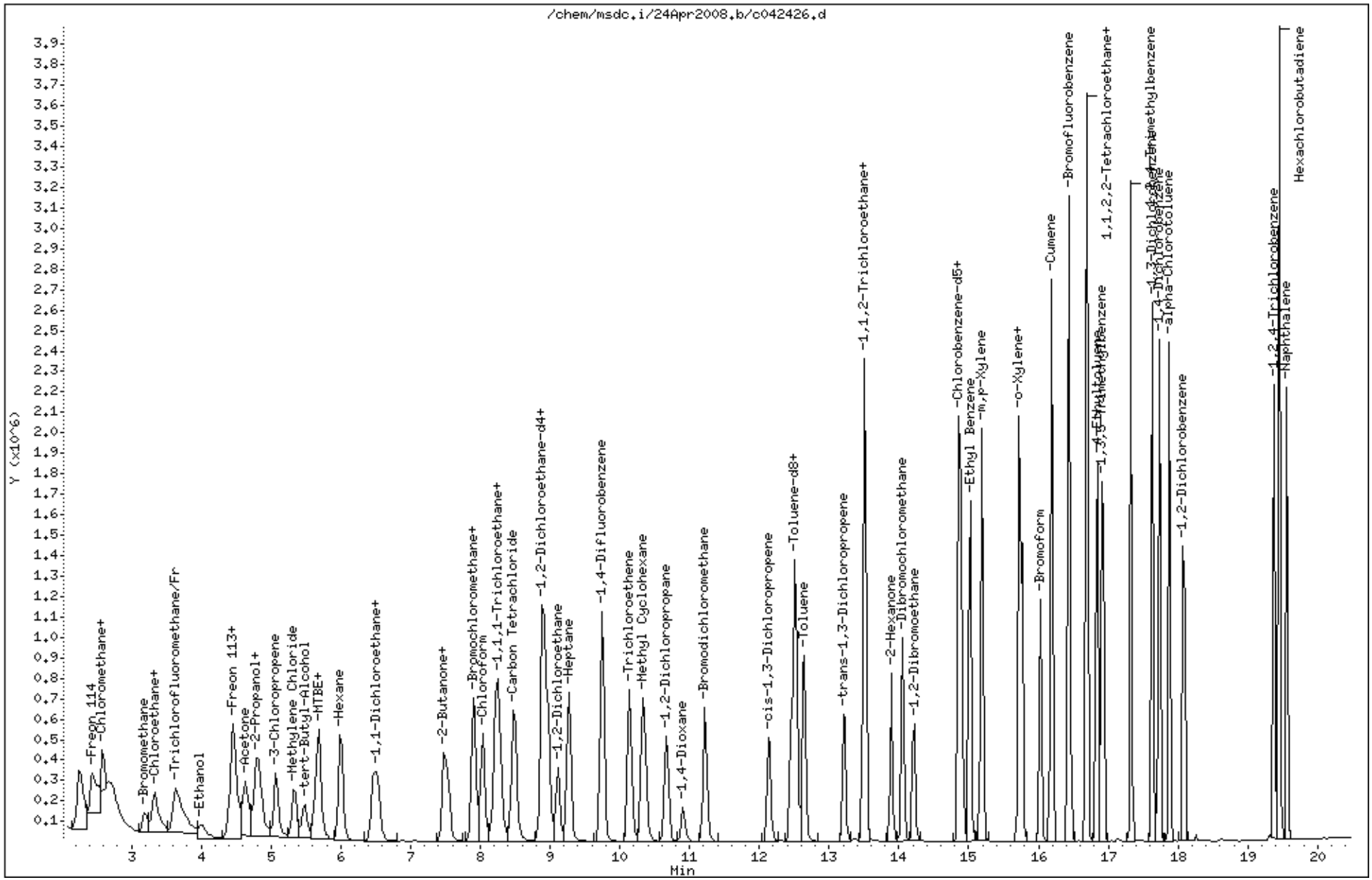
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	200.00	189.25	94.63	70-130
9 Freon 114	200.00	190.61	95.31	70-130
10 Chloromethane	200.00	186.10	93.05	70-130
13 Vinyl Chloride	200.00	193.55	96.77	70-130
12 1,3-Butadiene	200.00	184.54	92.27	60-140
15 Bromomethane	200.00	224.82	112.41	70-130
19 Chloroethane	200.00	224.01	112.01	70-130
20 Trichlorofluoromet	200.00	196.12	98.06	70-130
26 Ethanol	200.00	181.38	90.69	60-140
30 Freon 113	200.00	212.25	106.13	70-130
31 1,1-Dichloroethene	200.00	196.46	98.23	70-130
35 Carbon Disulfide	200.00	204.33	102.17	60-140
32 Acetone	200.00	189.30	94.65	60-140
36 2-Propanol	200.00	206.14	103.07	60-140
37 tert-Butyl-Alcohol	200.00	187.06	93.53	60-140
38 3-Chloropropene	200.00	191.85	95.93	60-140
43 Methylene Chloride	200.00	180.70	90.35	70-130
46 MTBE	200.00	228.90	114.45	60-140
47 trans-1,2-Dichloro	200.00	200.14	100.07	60-140
51 Hexane	200.00	194.46	97.23	60-140
55 1,1-Dichloroethane	200.00	202.28	101.14	70-130
66 cis-1,2-Dichloroet	200.00	196.26	98.13	70-130
67 2-Butanone	200.00	193.40	96.70	60-140
70 Tetrahydrofuran	200.00	197.29	98.64	60-140
72 Chloroform	200.00	195.90	97.95	70-130
74 Cyclohexane	200.00	207.39	103.70	60-140
75 1,1,1-Trichloroeth	200.00	202.67	101.33	70-130
56 Vinyl Acetate	200.00	192.74	96.37	70-130
77 Carbon Tetrachlori	200.00	203.24	101.62	70-130
80 2,2,4-Trimethylpen	200.00	199.17	99.59	60-140
81 Benzene	200.00	195.03	97.52	70-130
85 1,2-Dichloroethane	200.00	195.30	97.65	70-130
90 Heptane	200.00	176.58	88.29	60-140

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
93	Trichloroethene	200.00	189.44	94.72	70-130
98	1,2-Dichloropropan	200.00	193.01	96.51	70-130
99	1,4-Dioxane	200.00	192.70	96.35	60-140
100	Bromodichlorometha	200.00	191.52	95.76	60-140
103	cis-1,3-Dichloropr	200.00	190.43	95.22	70-130
106	4-Methyl-2-pentano	200.00	193.68	96.84	60-140
108	Toluene	200.00	192.56	96.28	70-130
113	trans-1,3-Dichloro	200.00	200.48	100.24	70-130
114	1,1,2-Trichloroeth	200.00	196.57	98.29	70-130
116	Tetrachloroethene	200.00	188.55	94.28	70-130
119	2-Hexanone	200.00	198.47	99.23	60-140
120	Dibromochlorometha	200.00	201.22	100.61	60-140
122	1,2-Dibromoethane	200.00	191.28	95.64	70-130
126	Chlorobenzene	200.00	192.22	96.11	70-130
128	Ethyl Benzene	200.00	187.24	93.62	70-130
130	m,p-Xylene	200.00	191.44	95.72	70-130
132	o-Xylene	200.00	194.92	97.46	70-130
133	Styrene	200.00	205.29	102.64	70-130
134	Bromoform	200.00	204.05	102.03	60-140
136	Cumene	200.00	209.73	104.86	60-140
141	1,1,2,2-Tetrachlor	200.00	207.01	103.51	70-130
142	Propylbenzene	200.00	199.50	99.75	60-140
144	4-Ethyltoluene	200.00	212.52	106.26	60-140
147	1,3,5-Trimethylben	200.00	208.85	104.43	70-130
152	1,2,4-Trimethylben	200.00	208.73	104.36	70-130
155	1,3-Dichlorobenzen	200.00	198.36	99.18	70-130
156	1,4-Dichlorobenzen	200.00	202.57	101.28	70-130
157	alpha-Chlorotoluen	200.00	223.96	111.98	70-130
159	1,2-Dichlorobenzen	200.00	191.50	95.75	70-130
163	1,2,4-Trichloroben	200.00	194.29	97.15	70-130
164	Hexachlorobutadien	200.00	208.62	104.31	70-130
6	Propylene	200.00	189.29	94.65	60-140
165	Naphthalene	200.00	234.05	117.03	60-140
17	Isopentane	200.00	167.49	83.75	70-130
11	Butane	200.00	176.82	88.41	70-130
94	Methyl Cyclohexane	200.00	193.04	96.52	70-130

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84	1,2-Dichloroethane	400.00	396.43	99.11	70-130
$ 107	Toluene-d8	400.00	389.40	97.35	70-130
$ 138	Bromofluorobenzene	400.00	409.15	102.29	70-130

Data File: /chem/msdc.i/24Apr2008.b/c042426.d
Date : 25-APR-2008 00:05
Client ID: LCS
Sample Info: 50mL,22506

Instrument: msdc.i
Operator: JP
Column phase: RTx-624
Column diameter: 0.53



Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

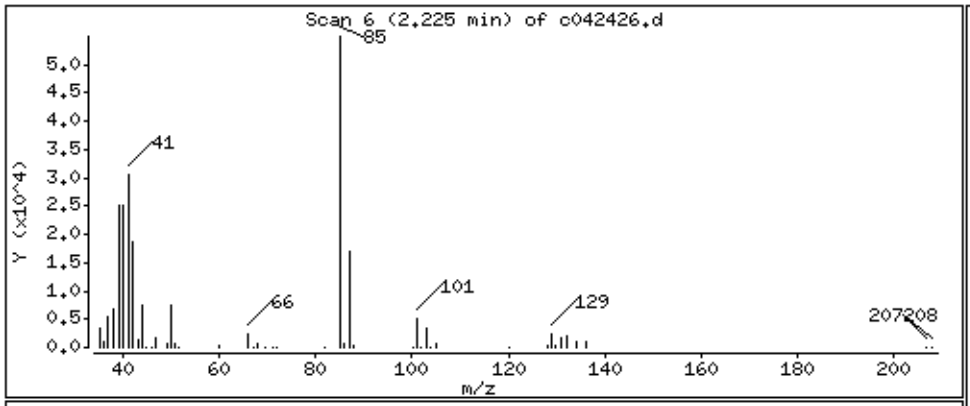
Operator: JP

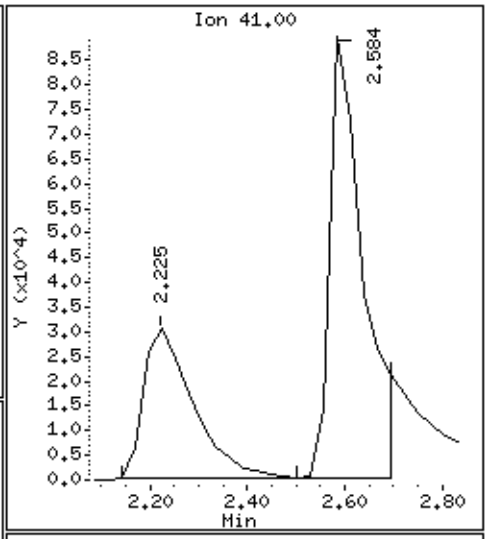
Column phase: RTx-624

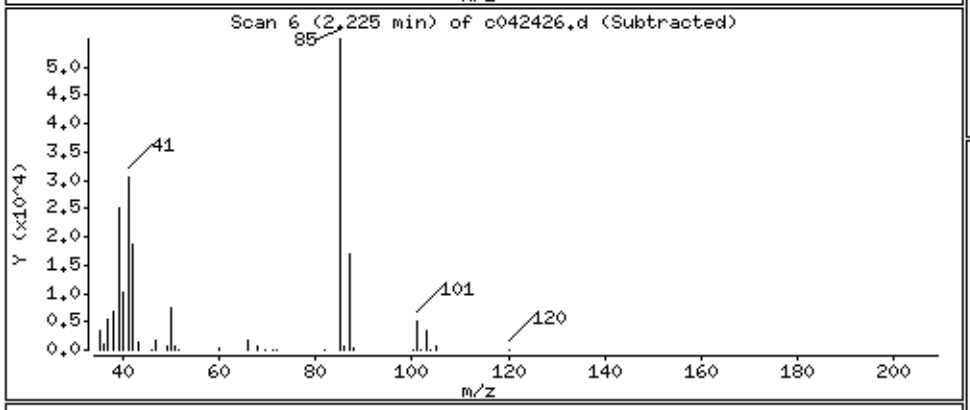
Column diameter: 0.53

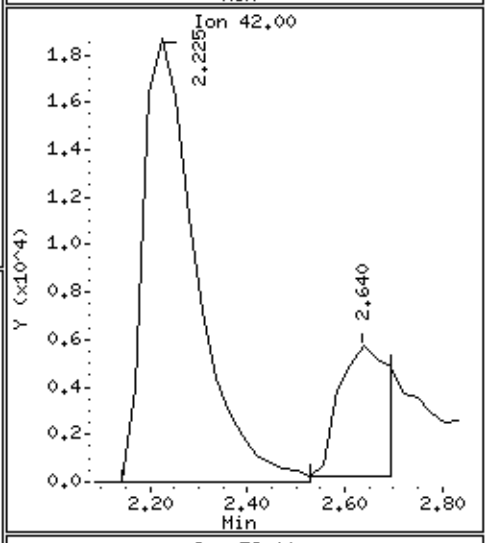
6 Propylene

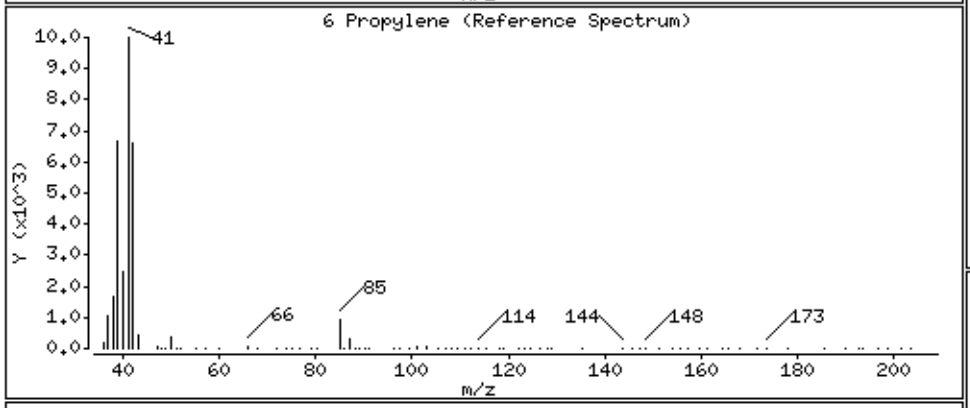
Concentration: 189.29 PPBV

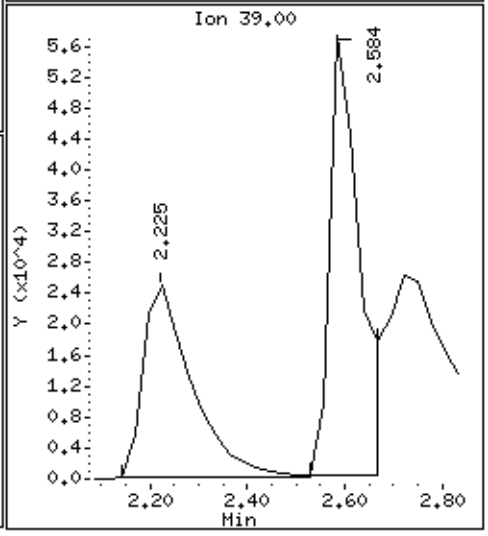


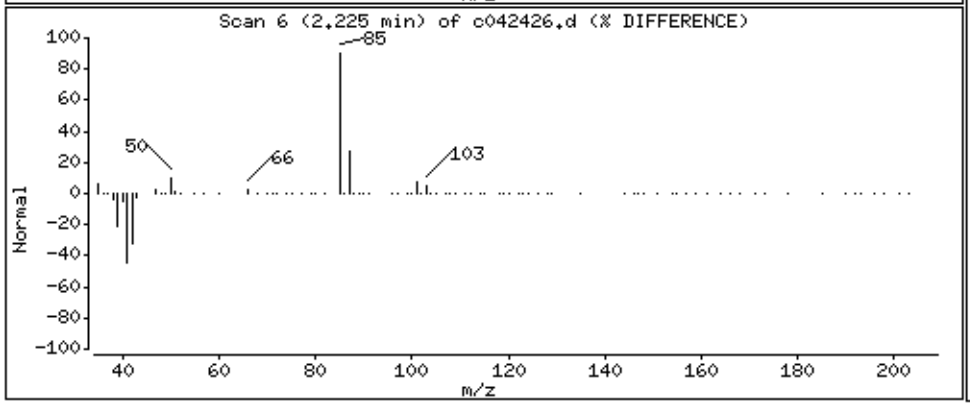












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

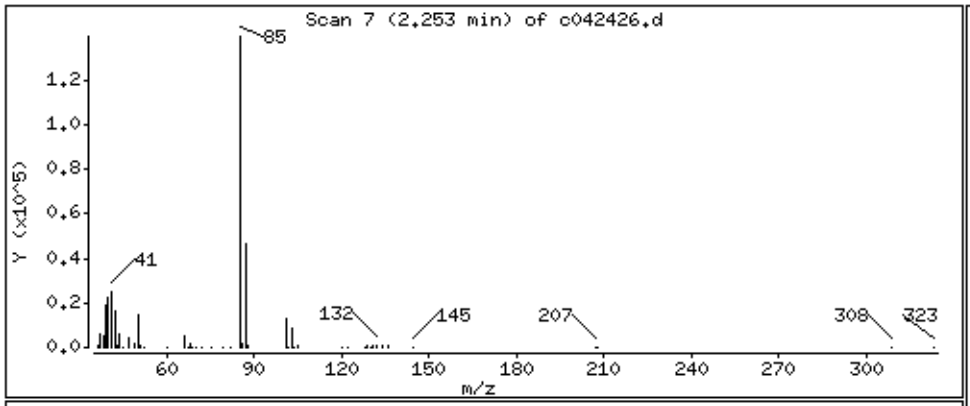
Operator: JP

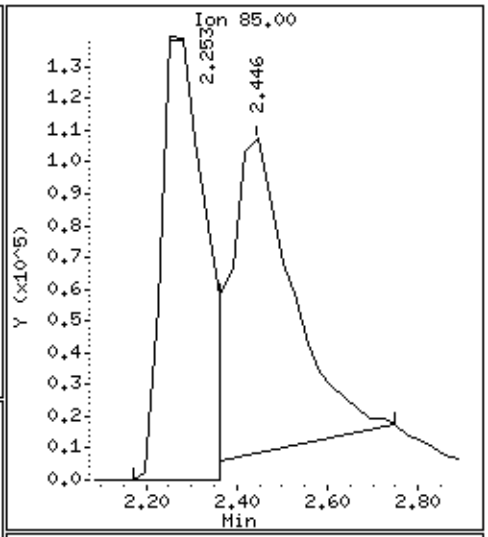
Column phase: RTx-624

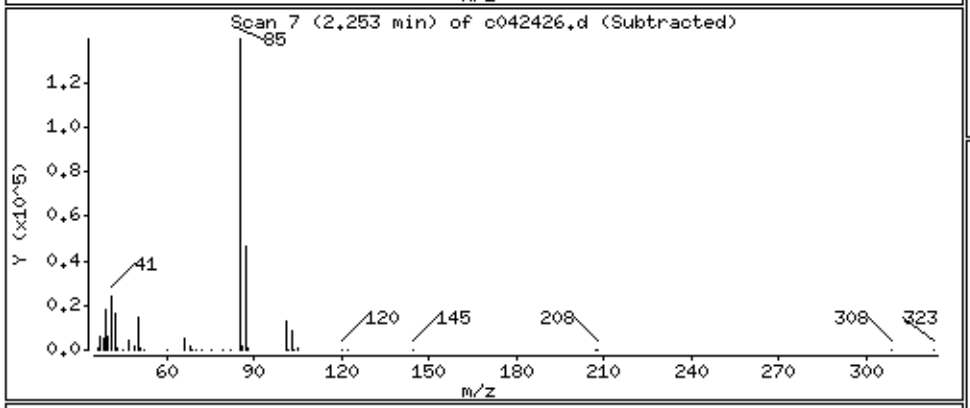
Column diameter: 0.53

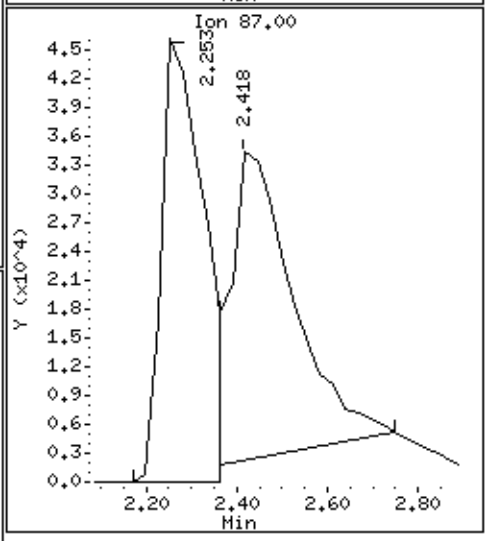
8 Dichlorodifluoromethane/Fr12

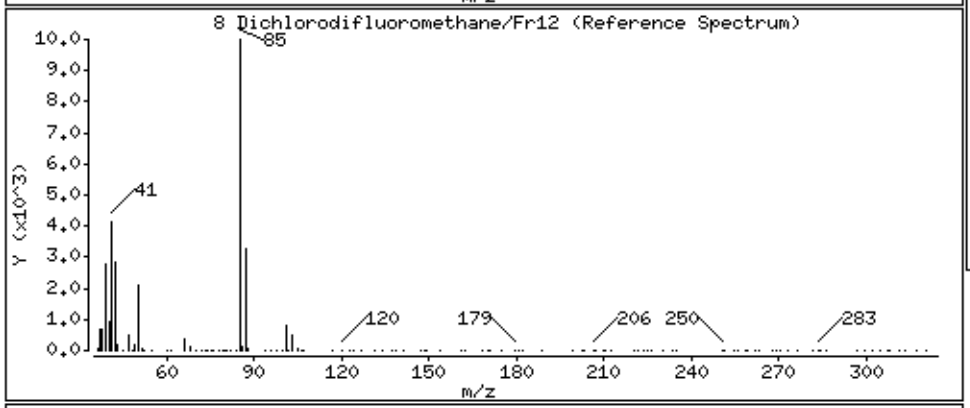
Concentration: 189.25 PPBV

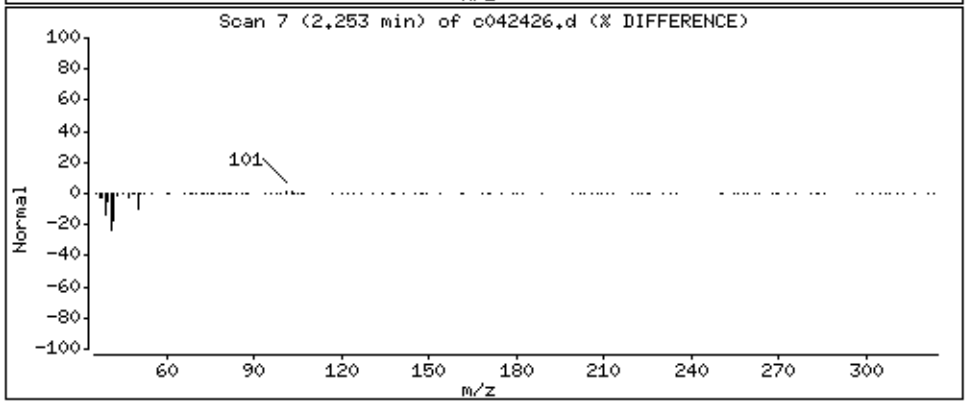












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

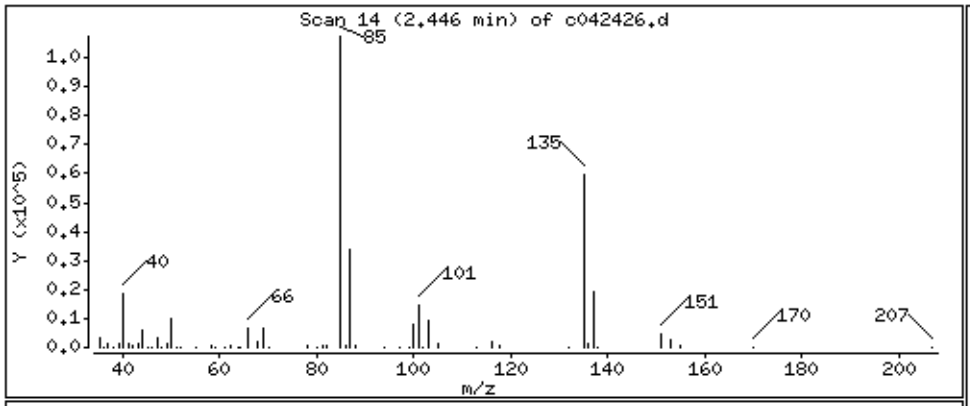
Operator: JP

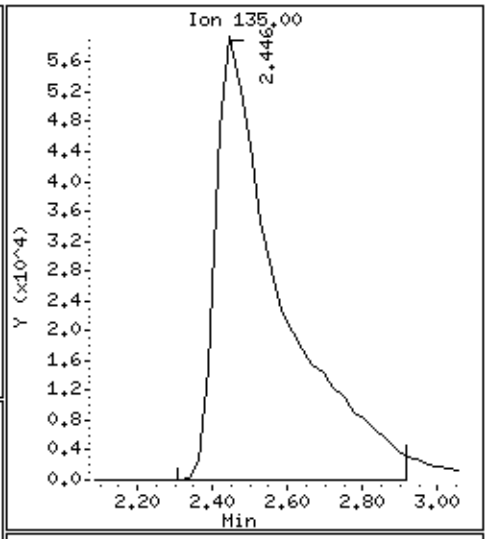
Column phase: RTx-624

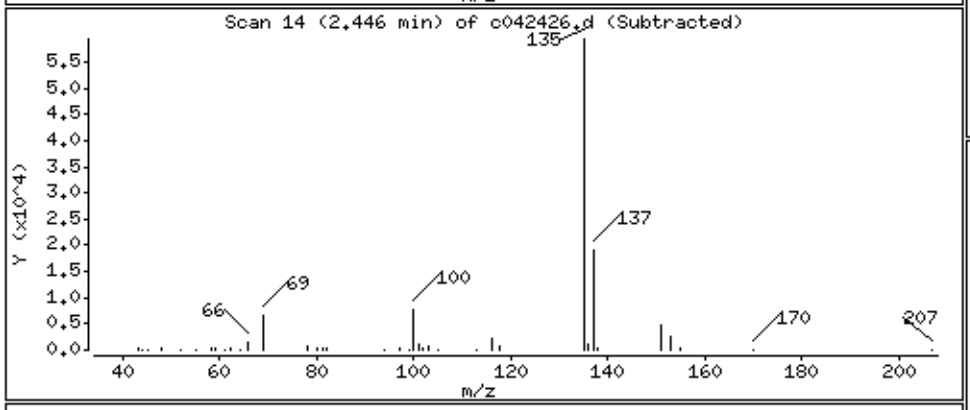
Column diameter: 0.53

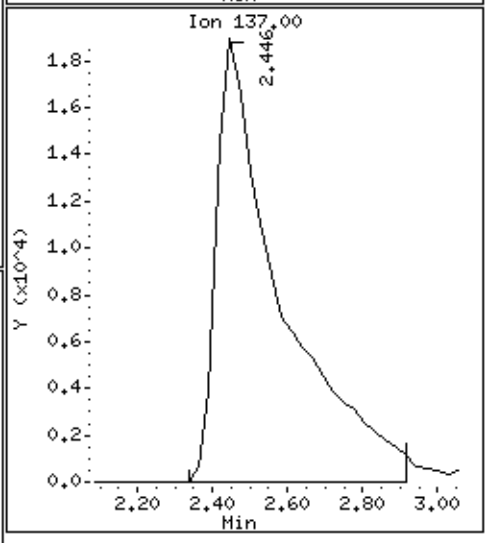
9 Freon 114

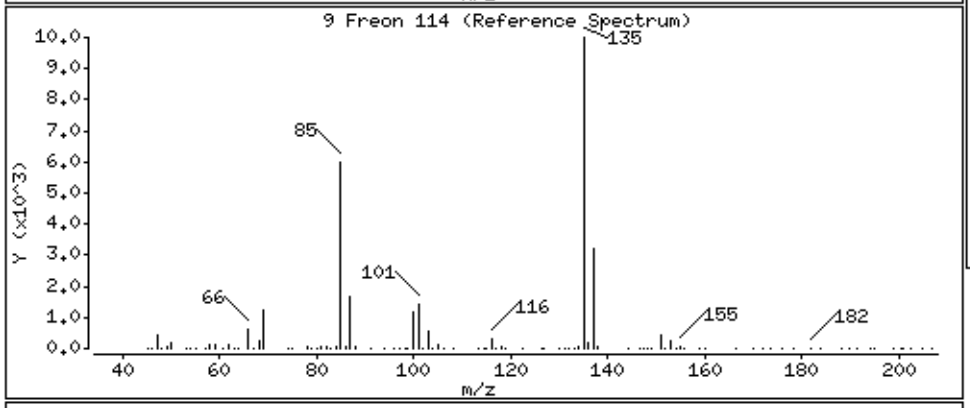
Concentration: 190.61 PPBV

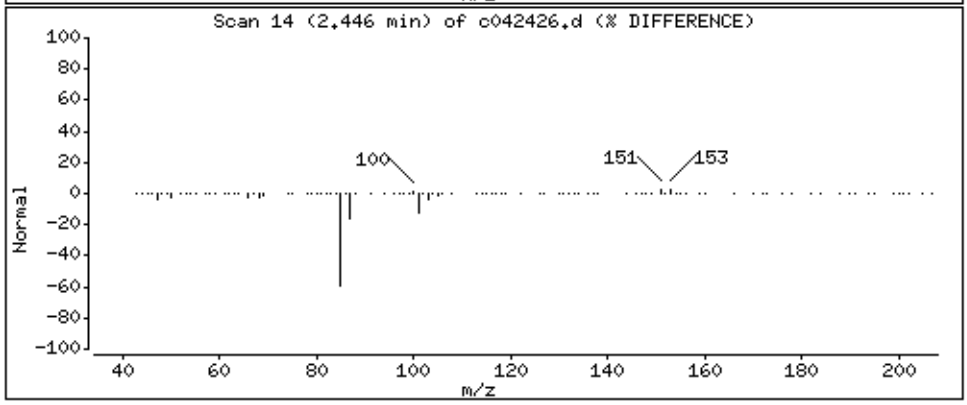












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

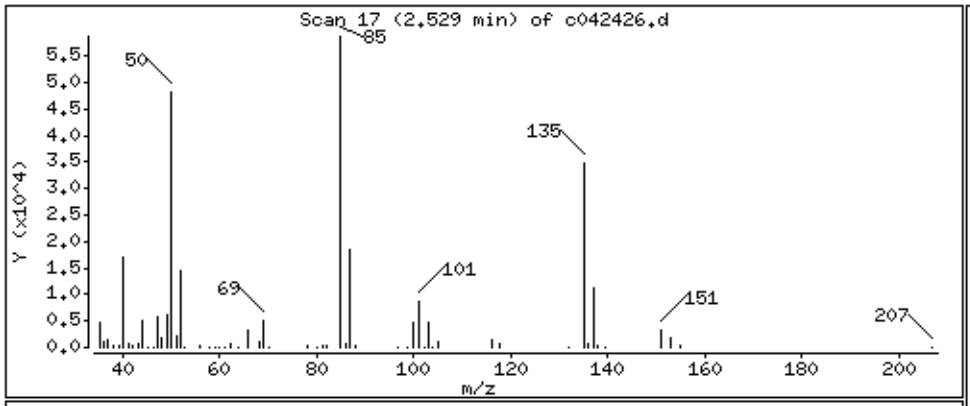
Operator: JP

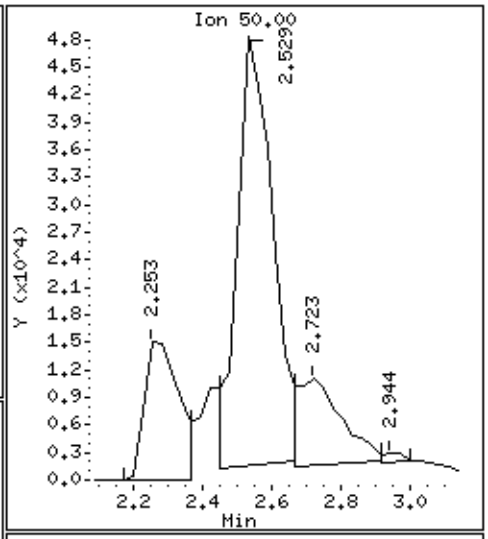
Column phase: RTx-624

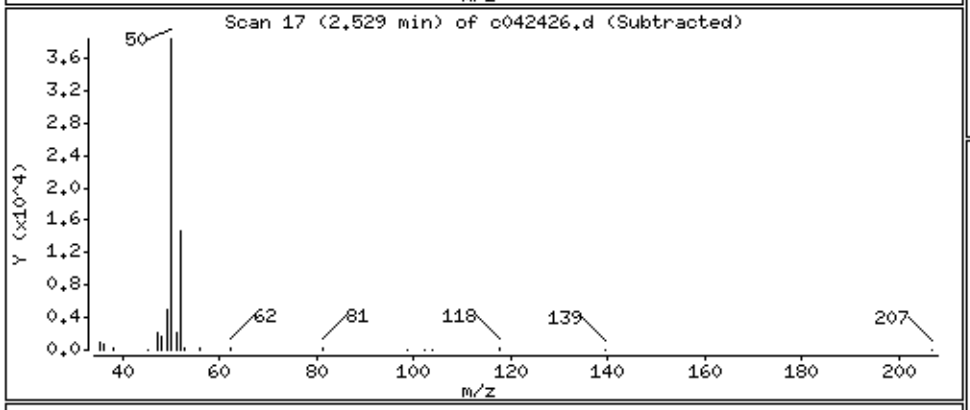
Column diameter: 0.53

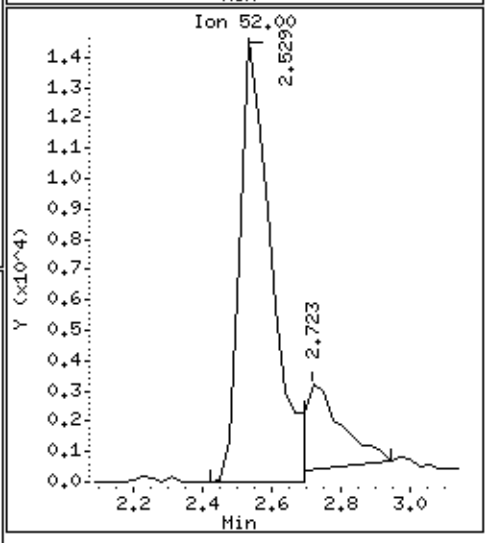
10 Chloromethane

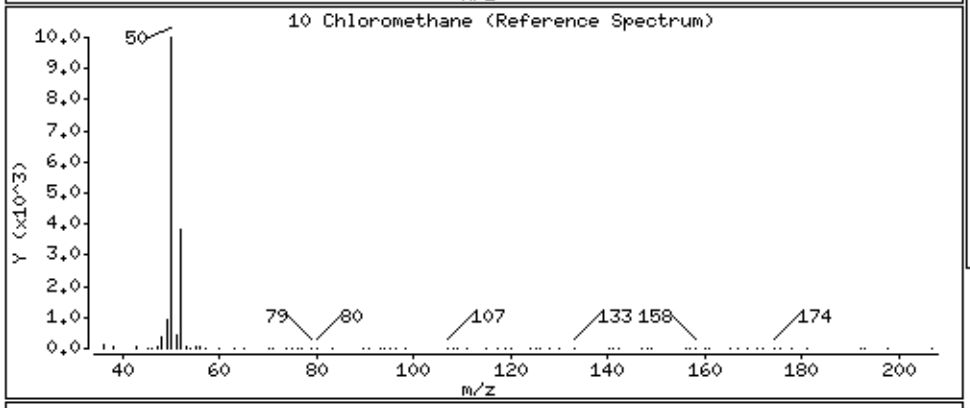
Concentration: 186.10 PPBV

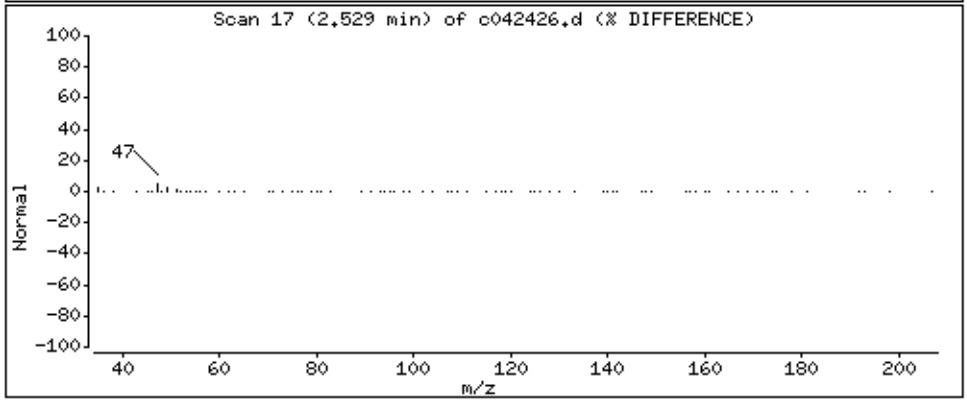












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

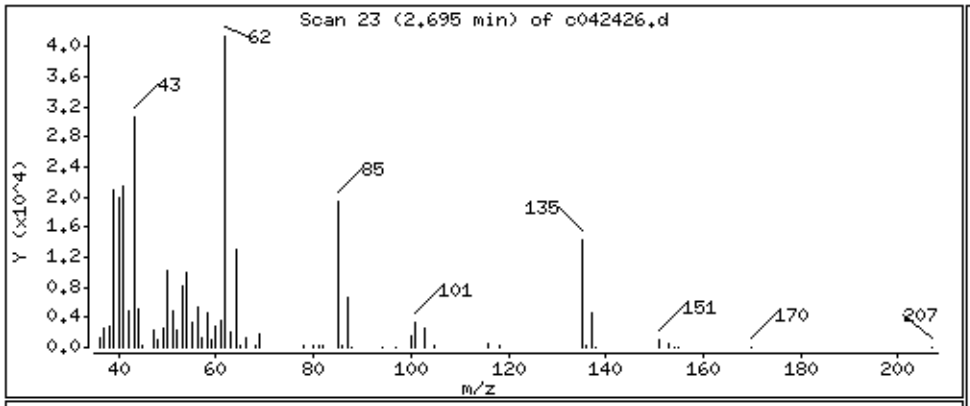
Operator: JP

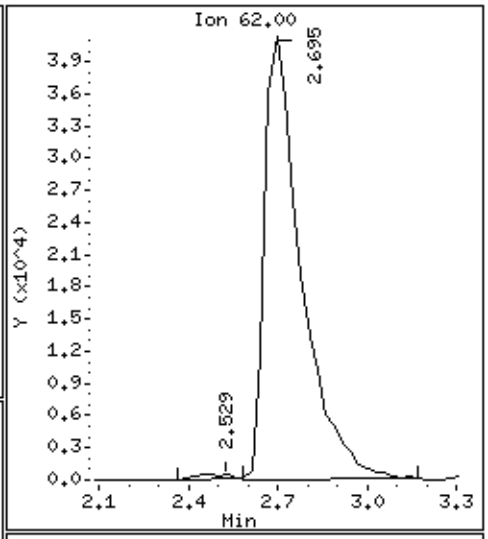
Column phase: RTx-624

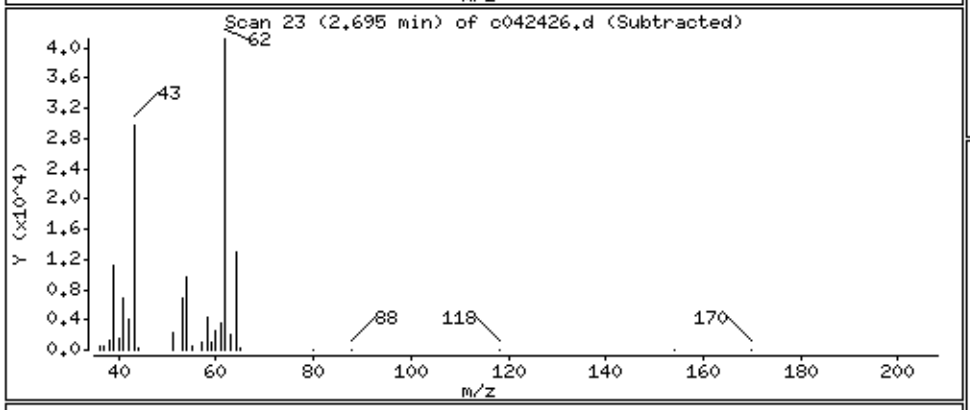
Column diameter: 0.53

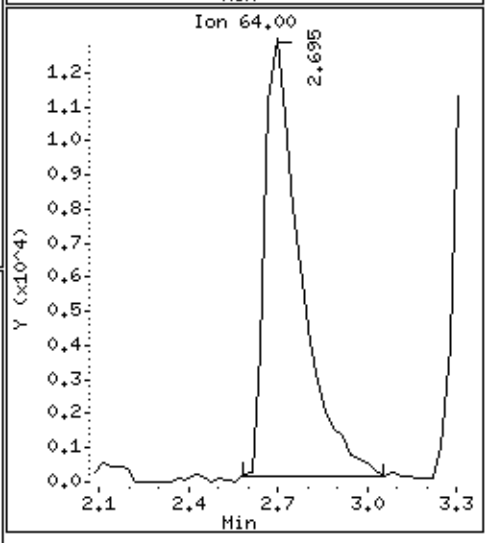
13 Vinyl Chloride

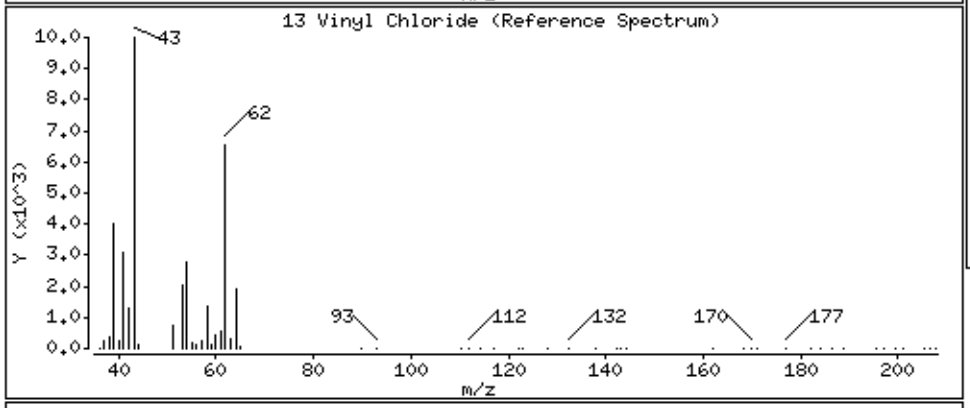
Concentration: 193.55 PPBV

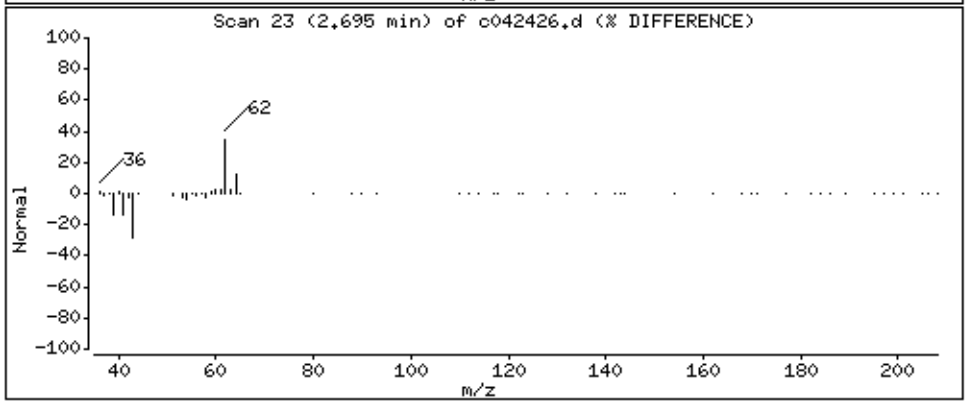












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

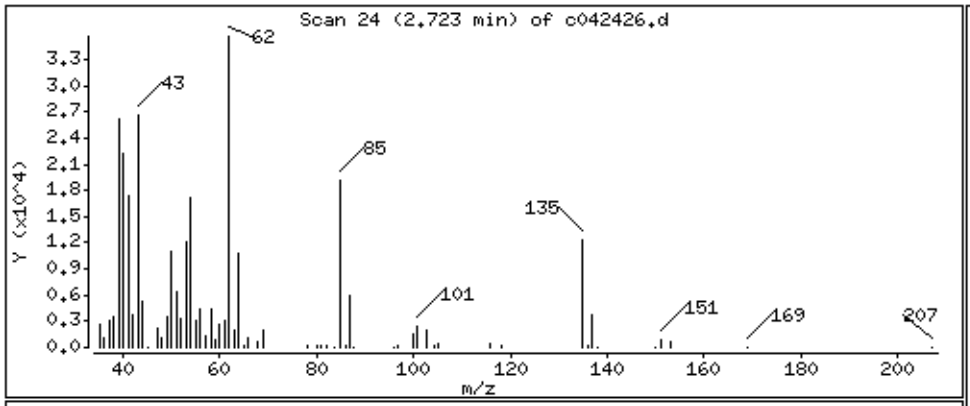
Operator: JP

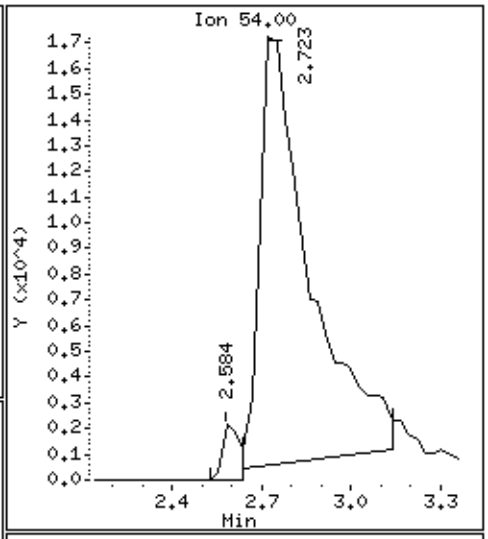
Column phase: RTx-624

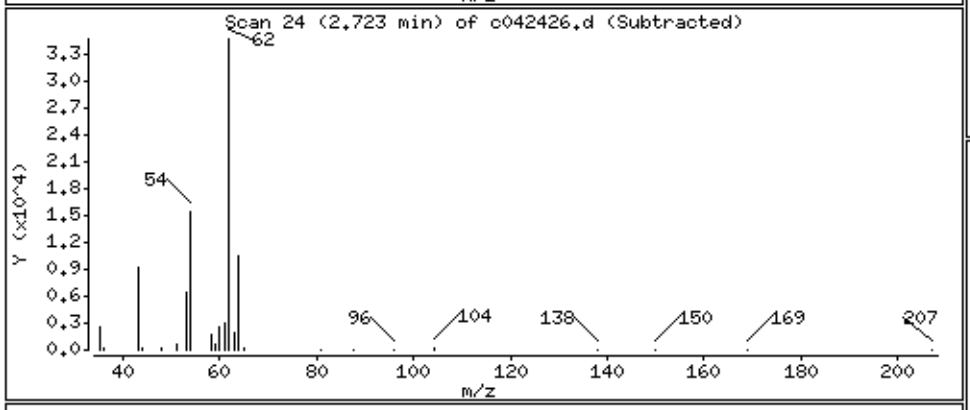
Column diameter: 0.53

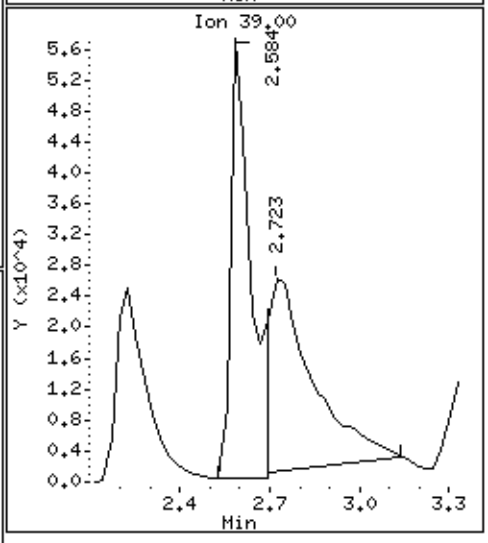
12 1,3-Butadiene

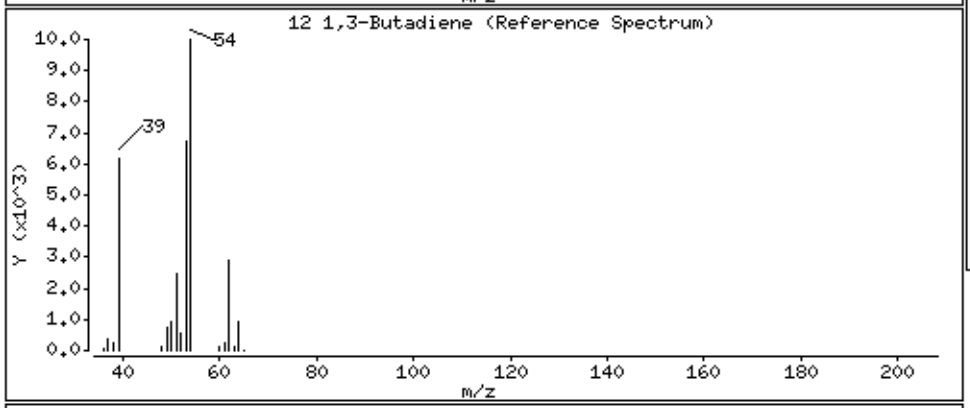
Concentration: 184.54 PPBV

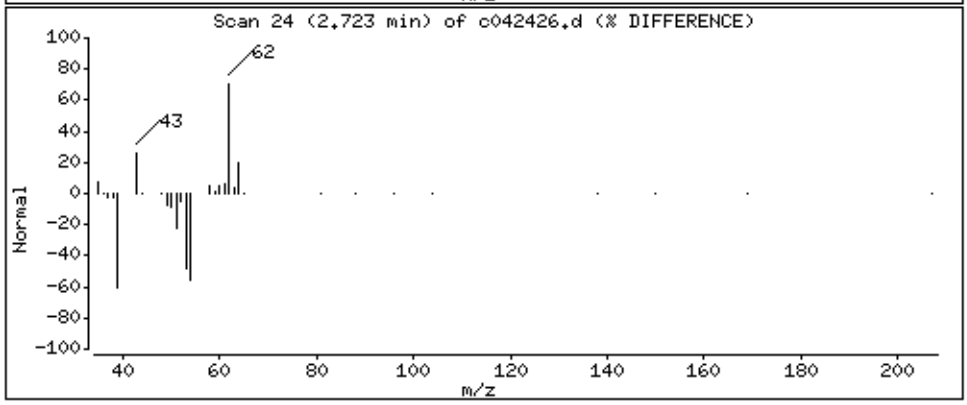












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

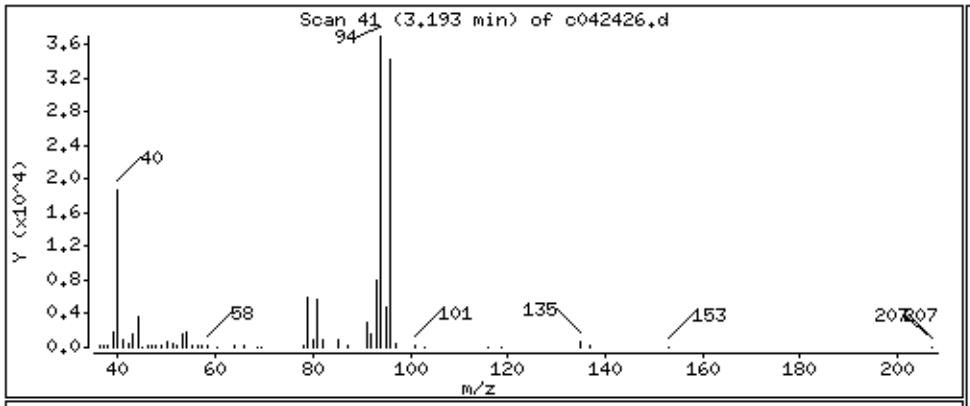
Operator: JP

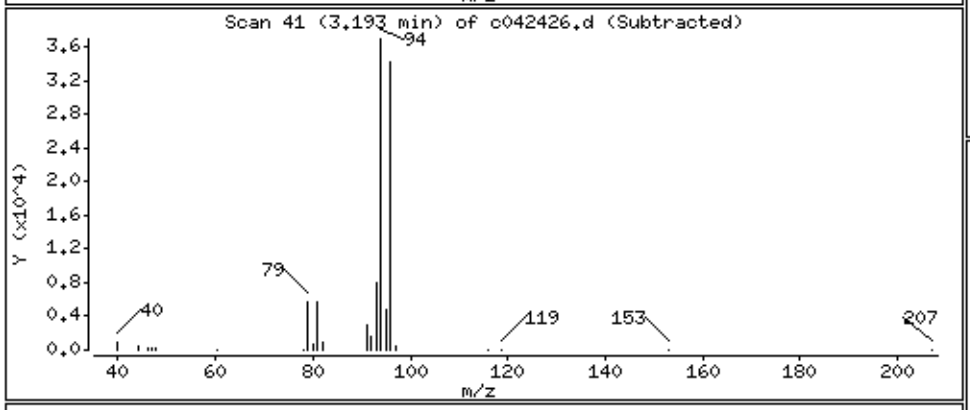
Column phase: RTx-624

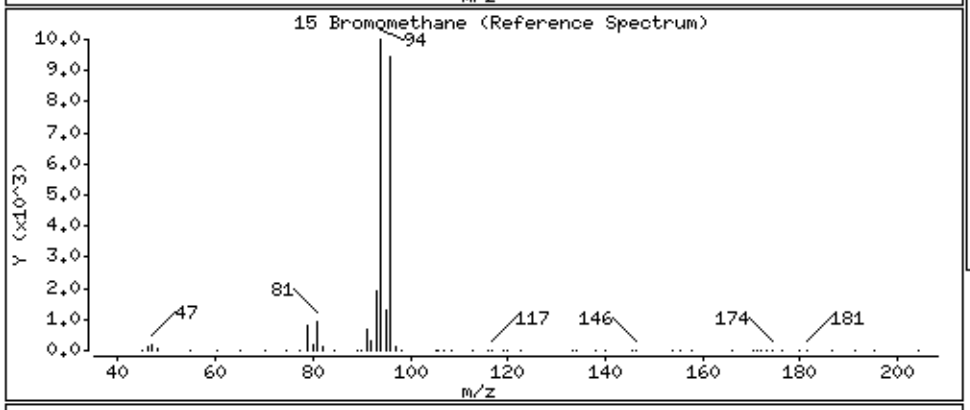
Column diameter: 0.53

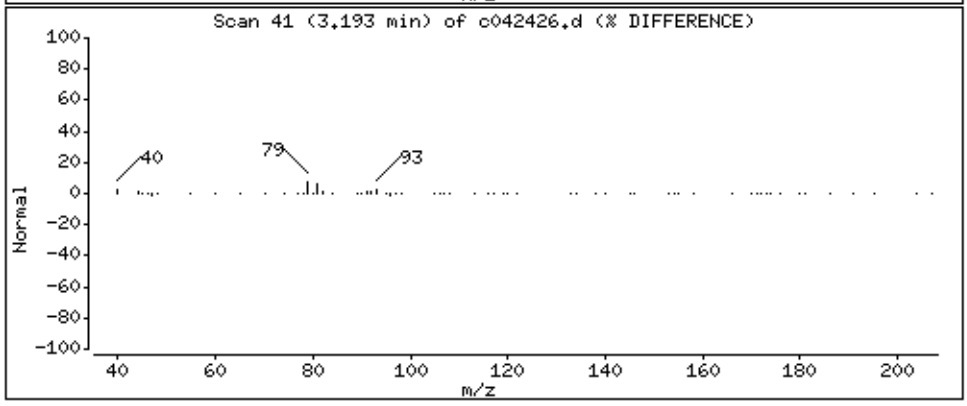
15 Bromomethane

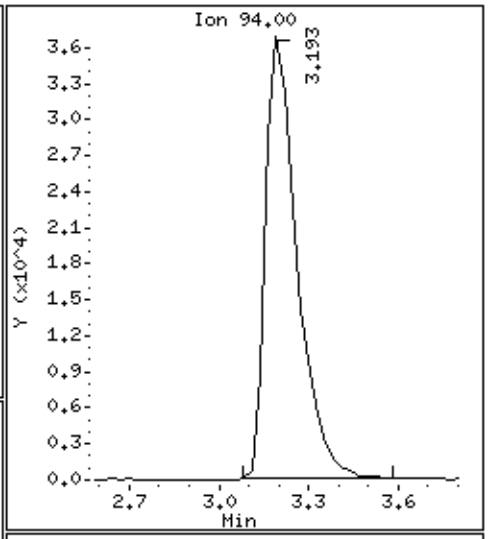
Concentration: 224.82 PPBV

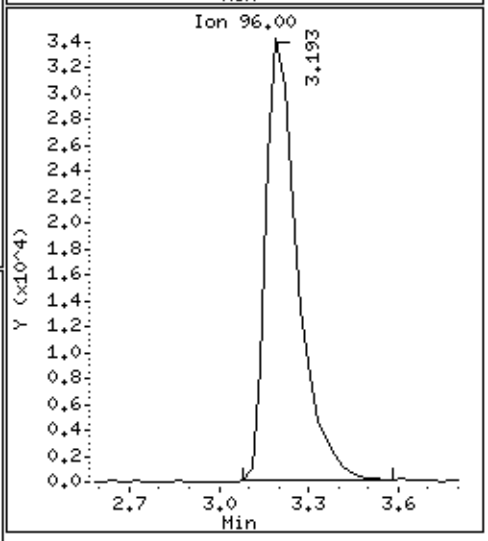












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

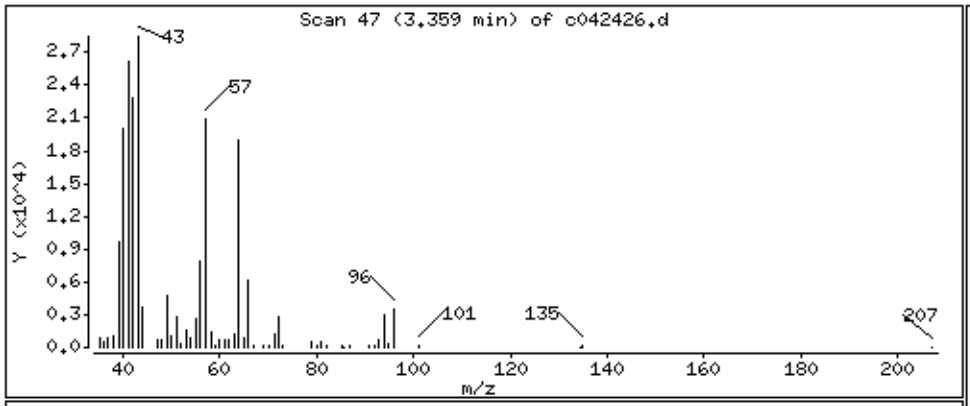
Operator: JP

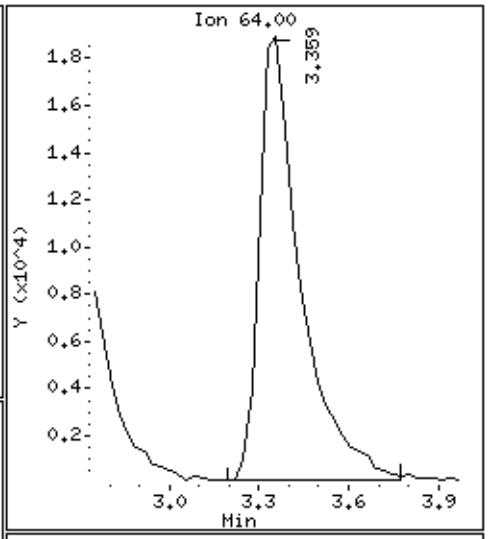
Column phase: RTx-624

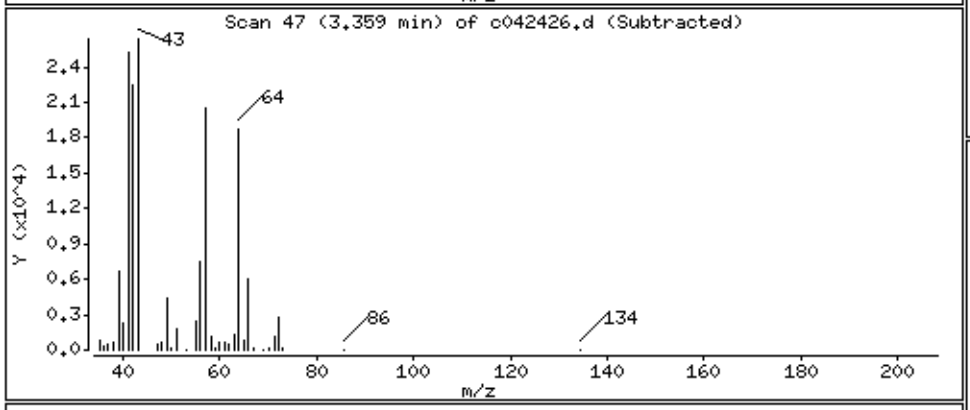
Column diameter: 0.53

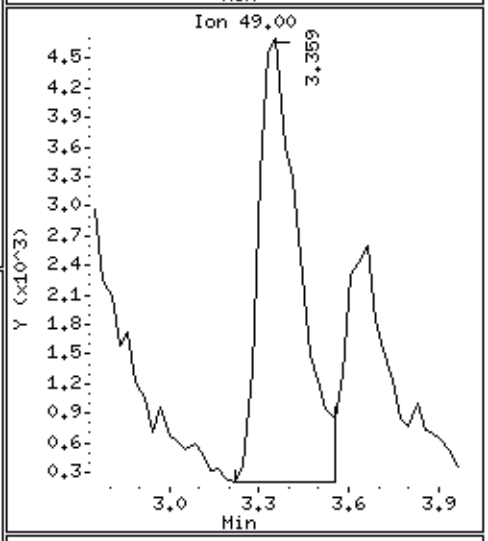
19 Chloroethane

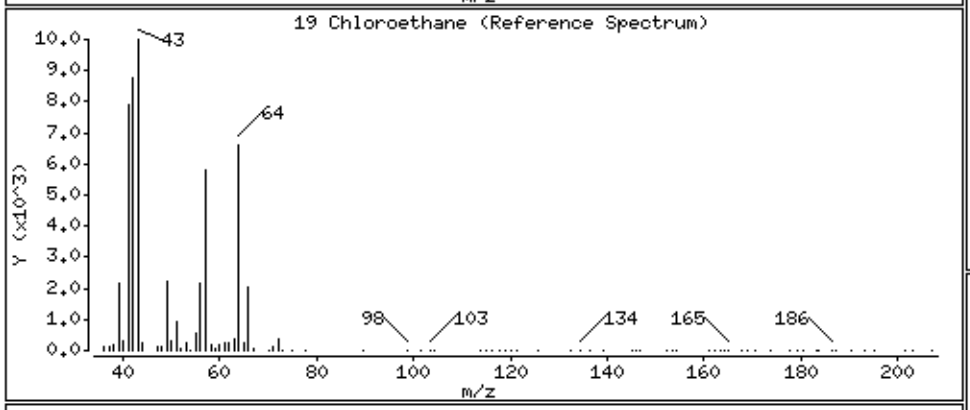
Concentration: 224.01 PPBV

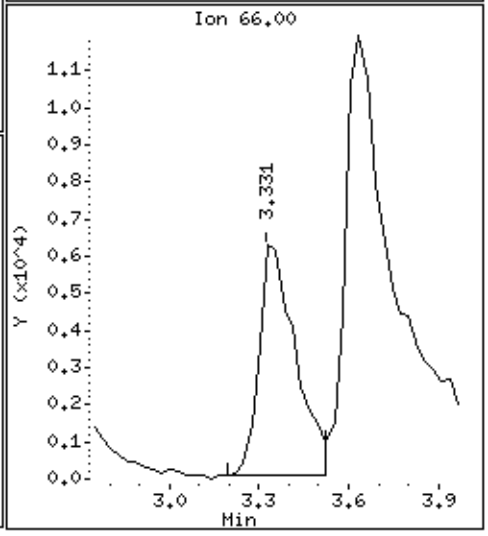


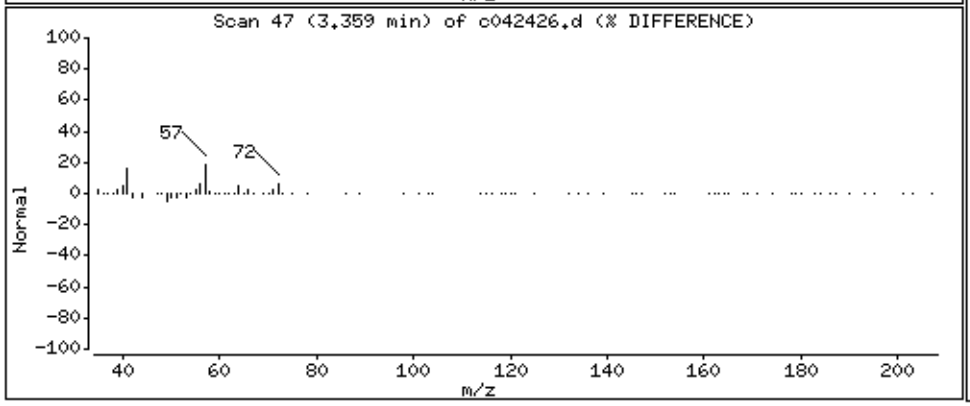












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

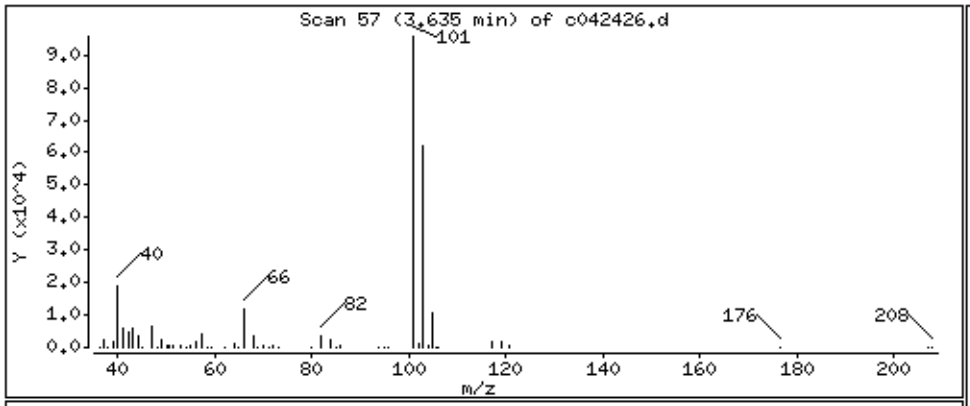
Operator: JP

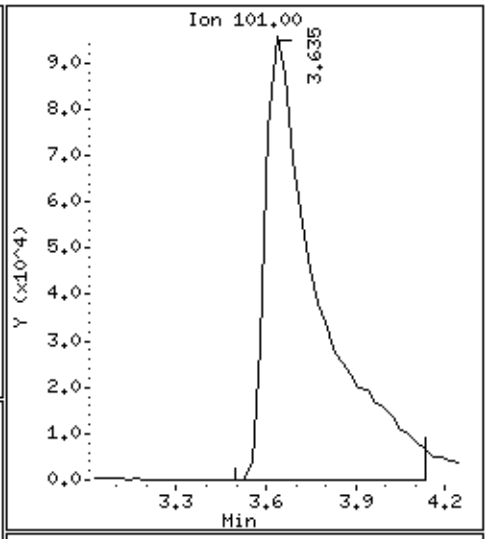
Column phase: RTx-624

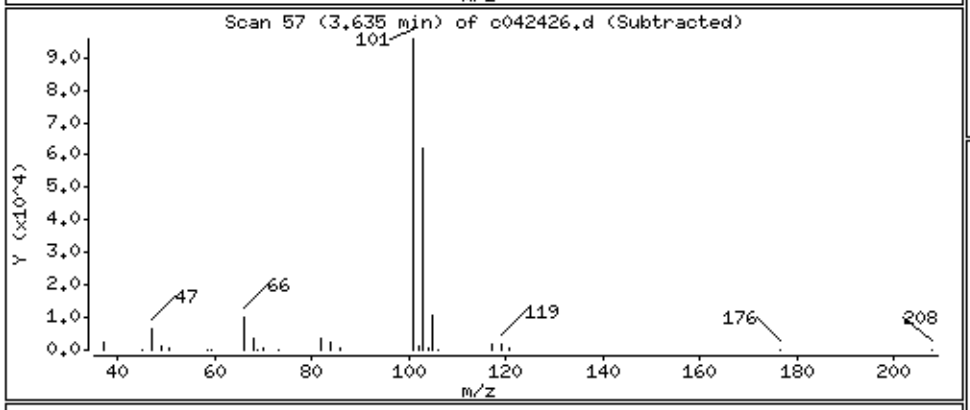
Column diameter: 0.53

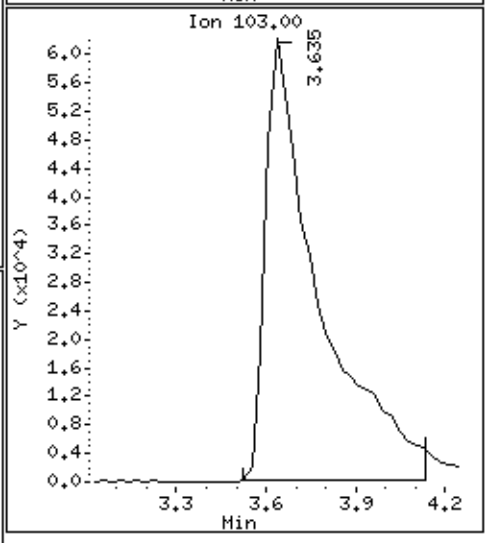
20 Trichlorofluoromethane/Fr11

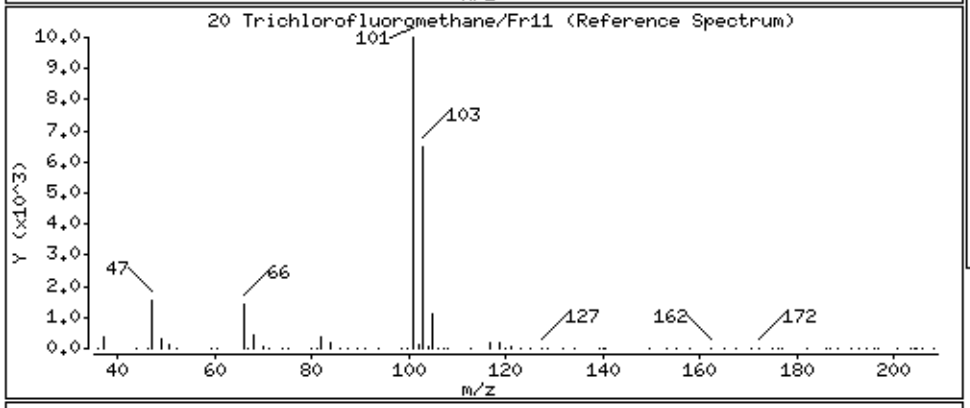
Concentration: 196.12 PPBV

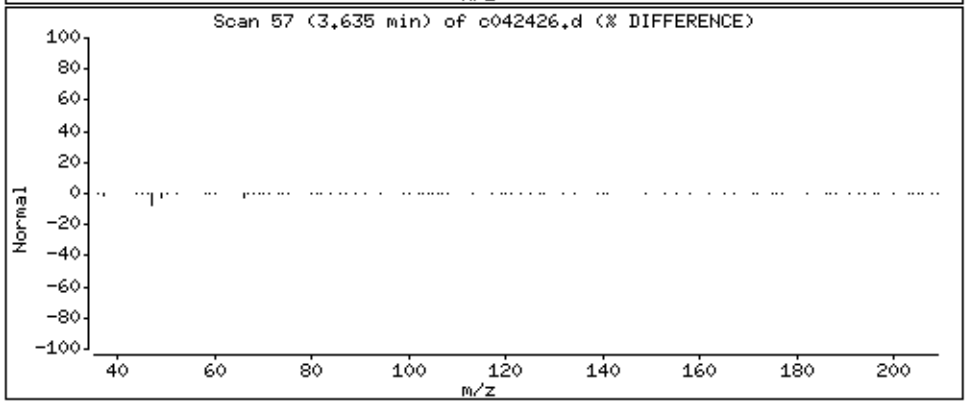












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

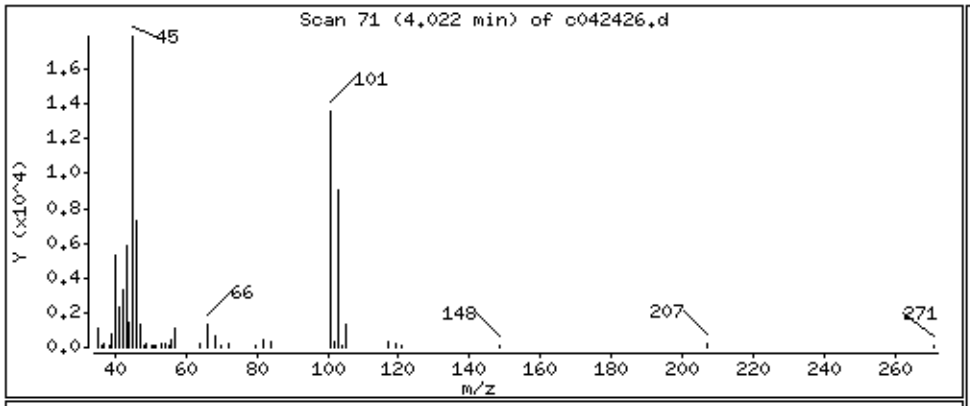
Operator: JP

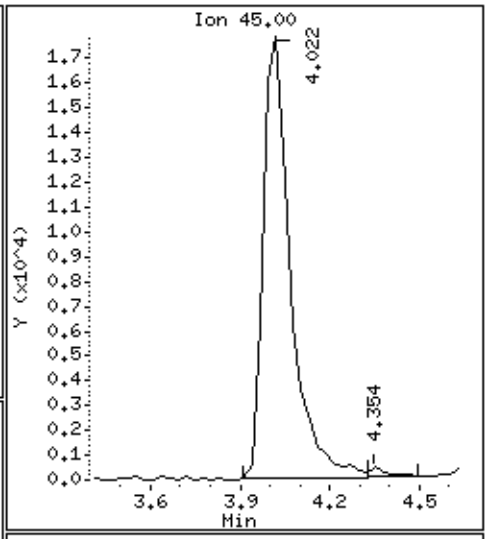
Column phase: RTx-624

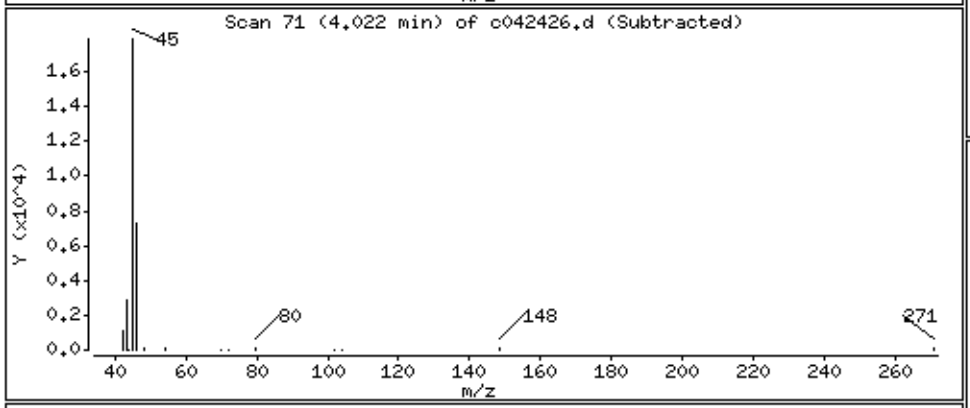
Column diameter: 0.53

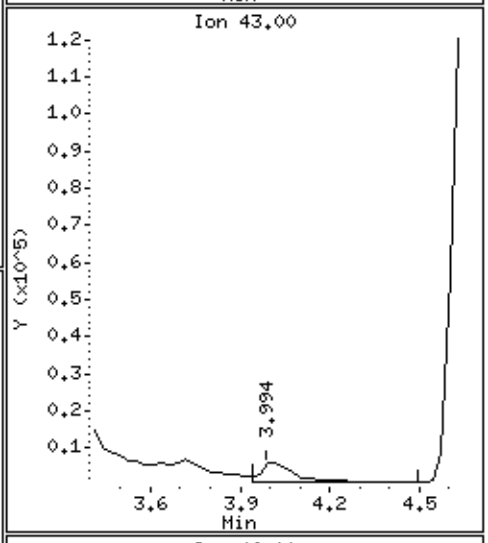
26 Ethanol

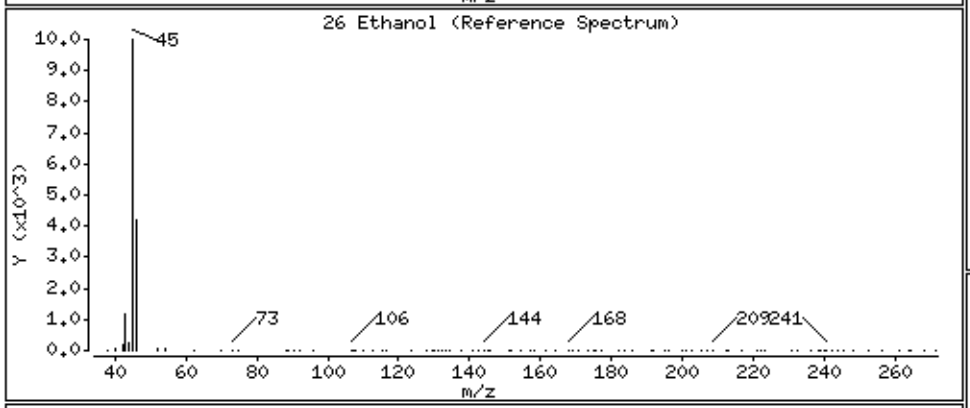
Concentration: 181.38 PPBV

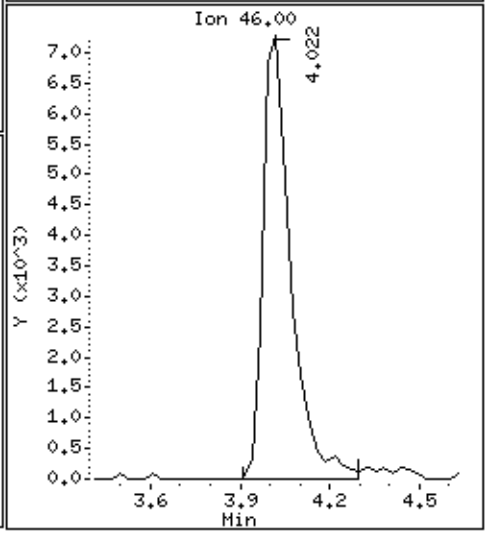


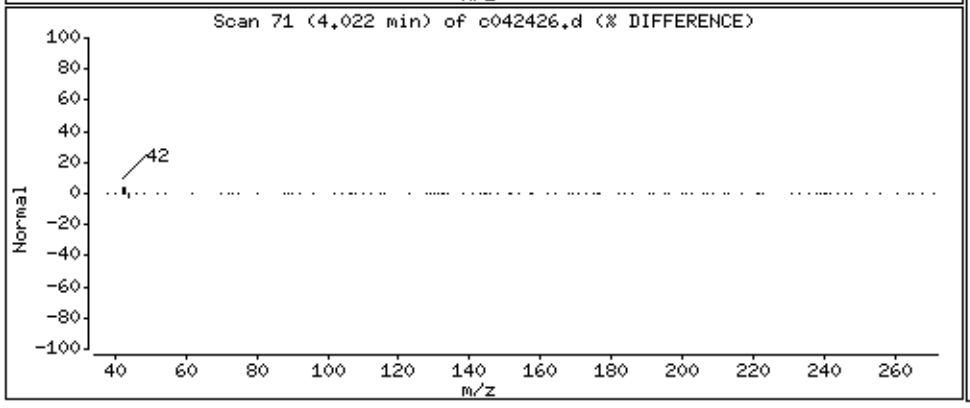












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

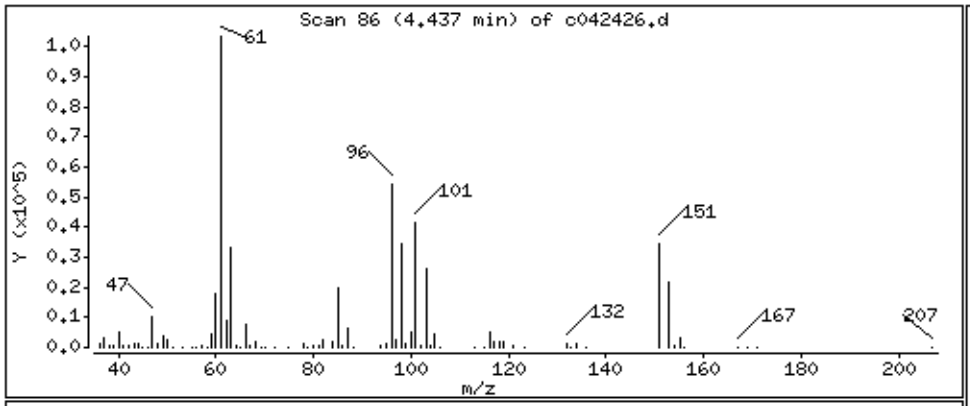
Operator: JP

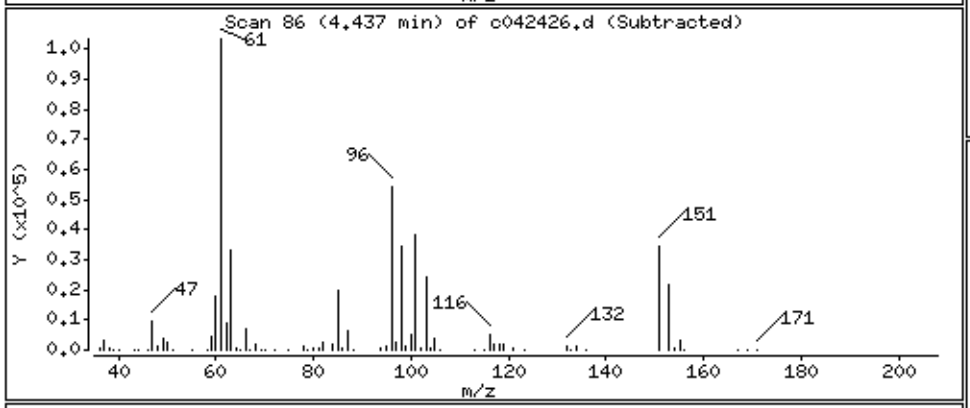
Column phase: RTx-624

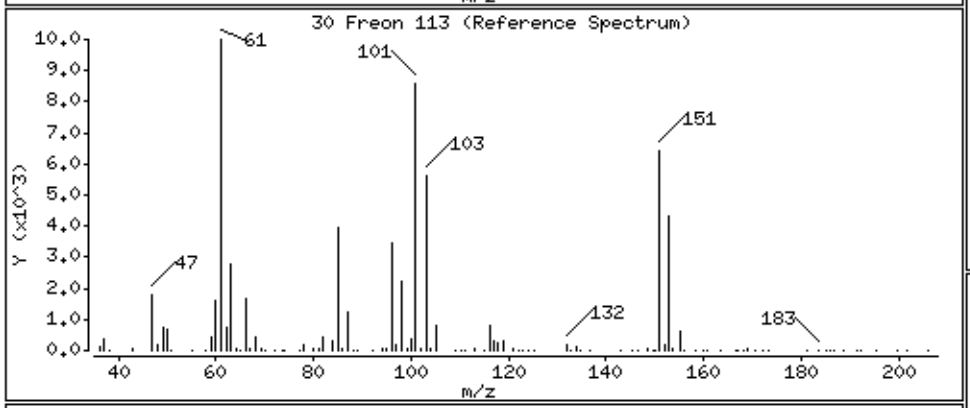
Column diameter: 0.53

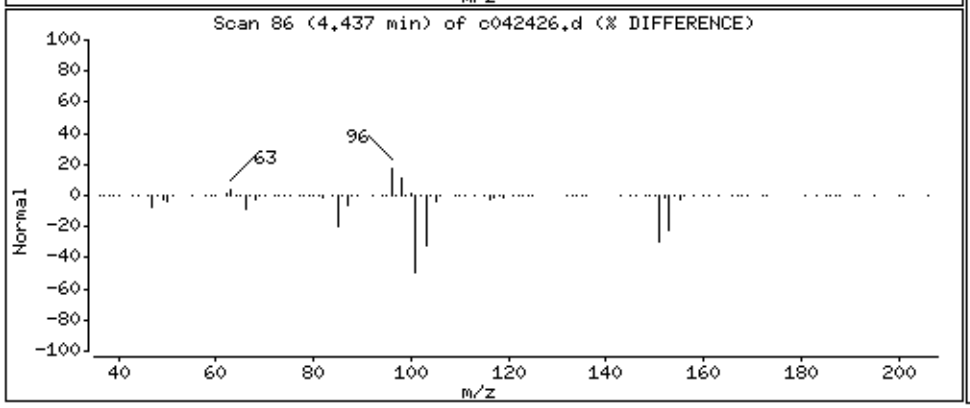
30 Freon 113

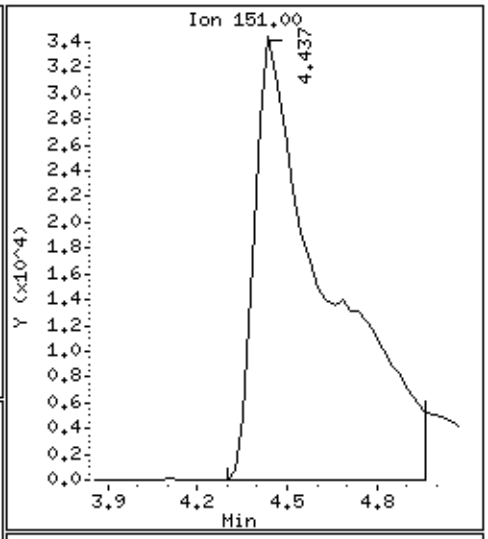
Concentration: 212.25 PPBV

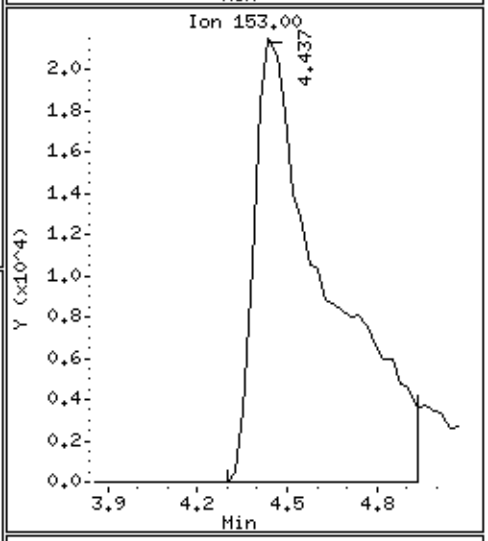


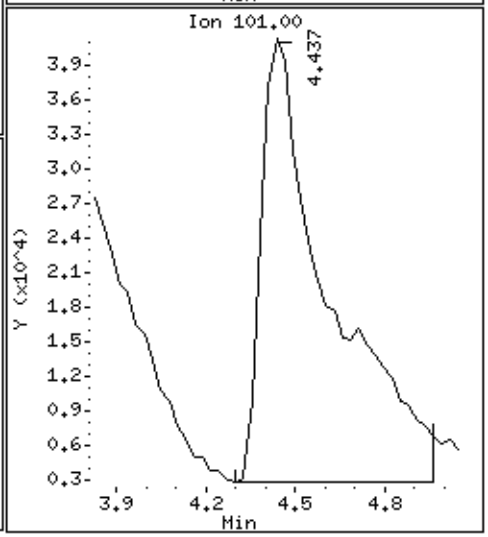












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

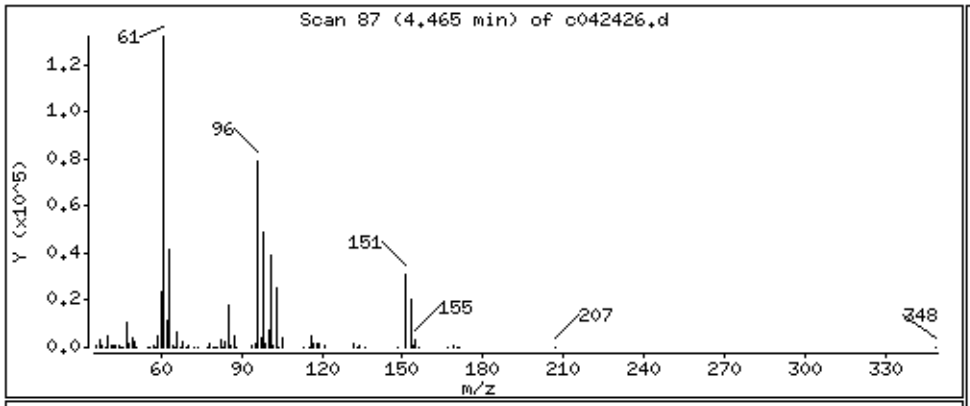
Operator: JP

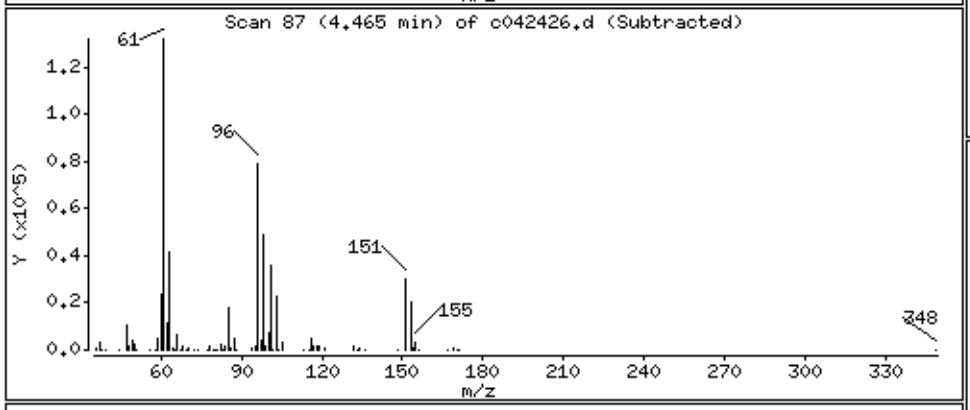
Column phase: RTx-624

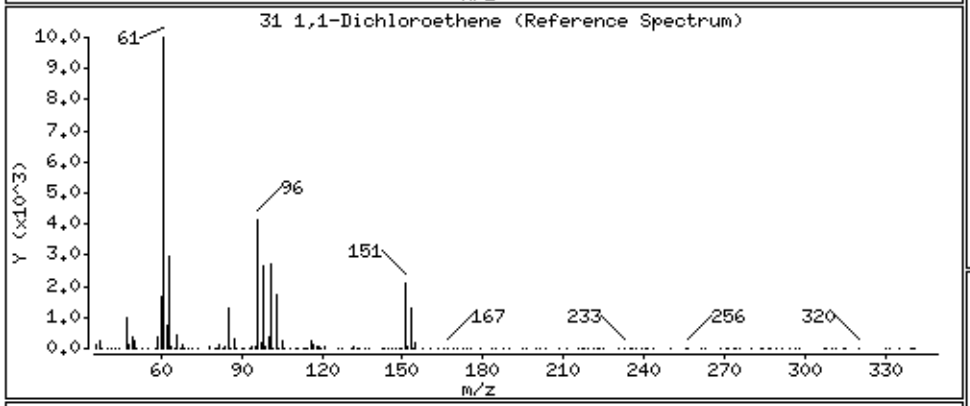
Column diameter: 0.53

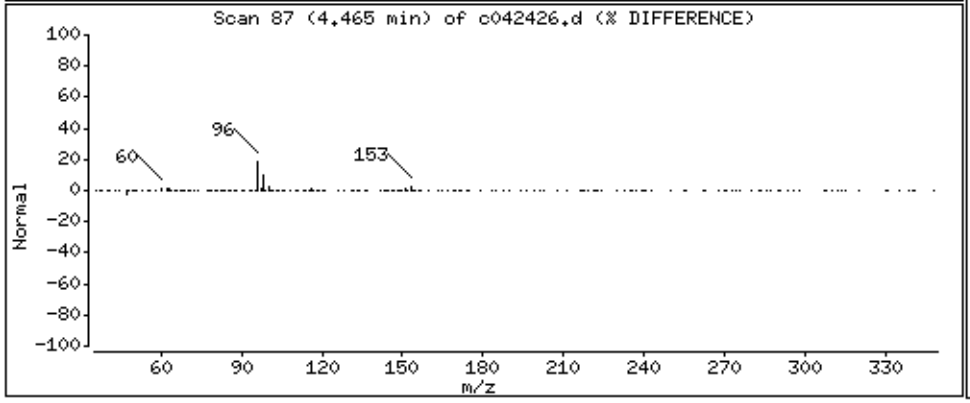
31 1,1-Dichloroethene

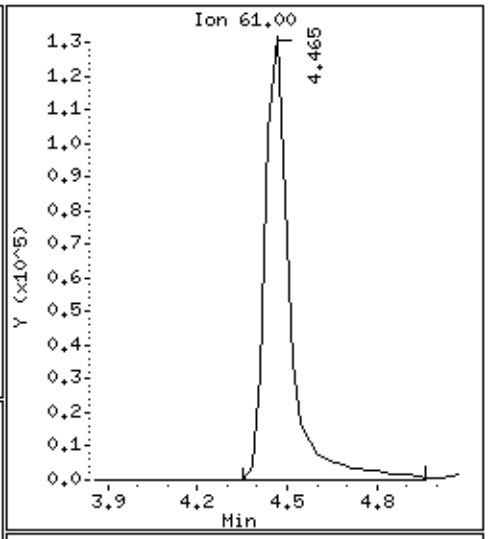
Concentration: 196.46 PPBV

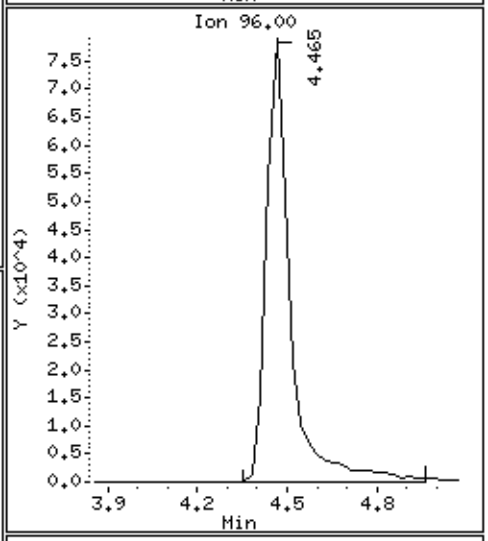


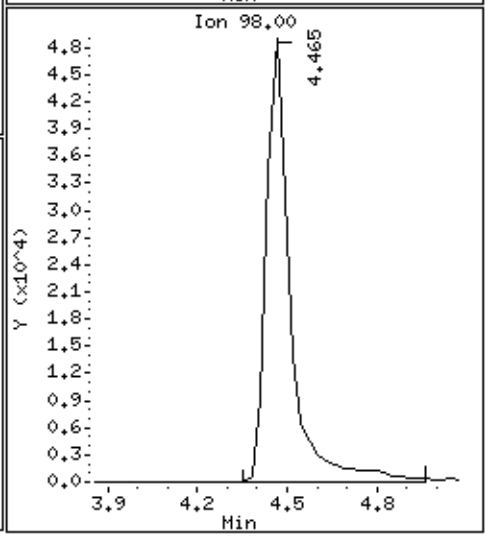












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

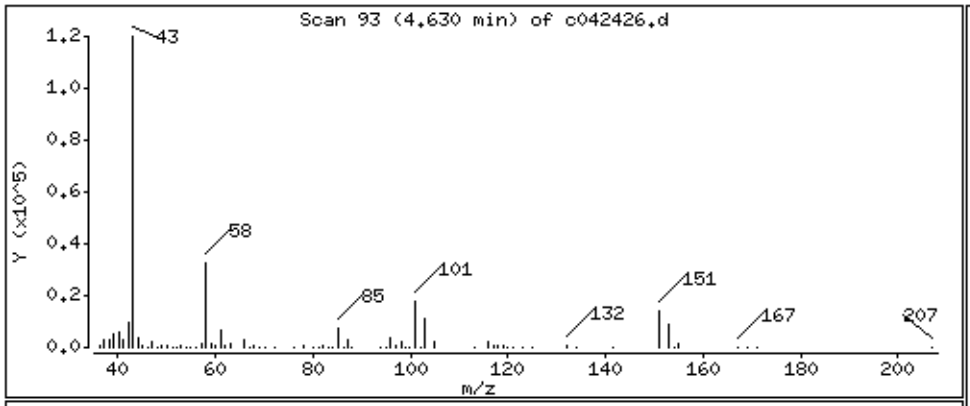
Operator: JP

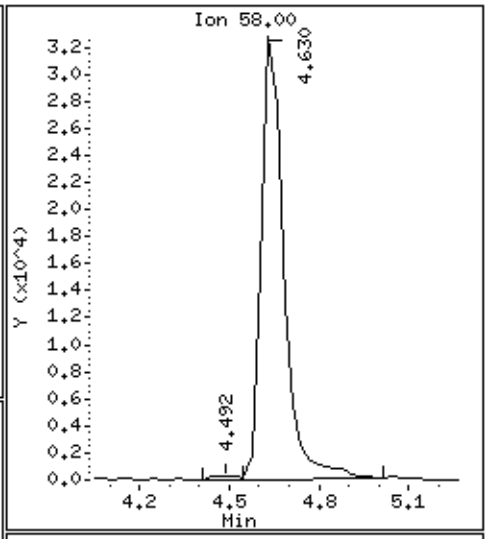
Column phase: RTx-624

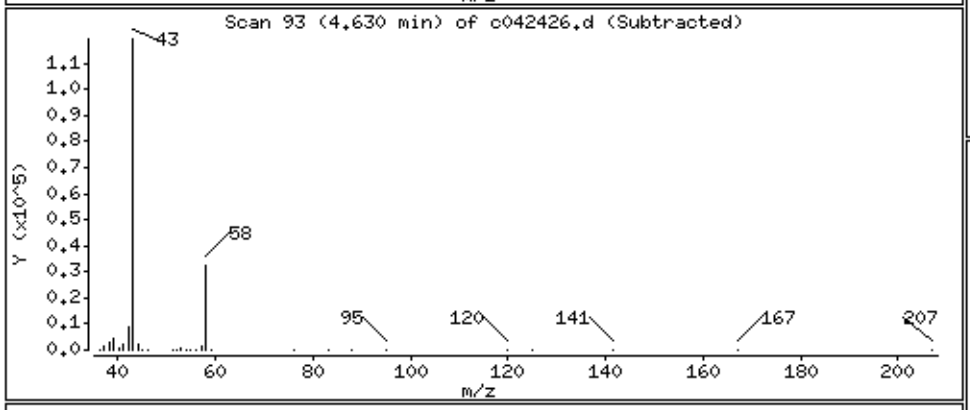
Column diameter: 0.53

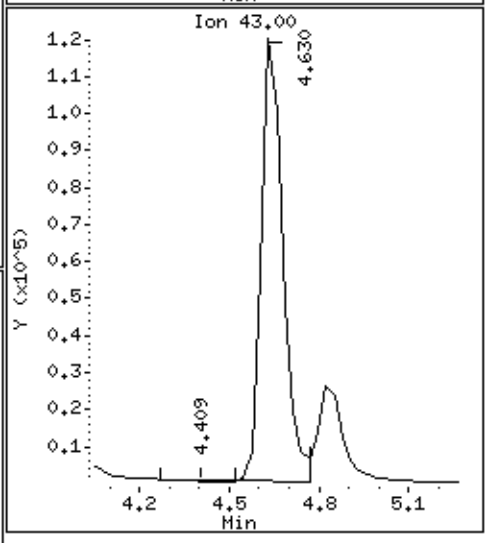
32 Acetone

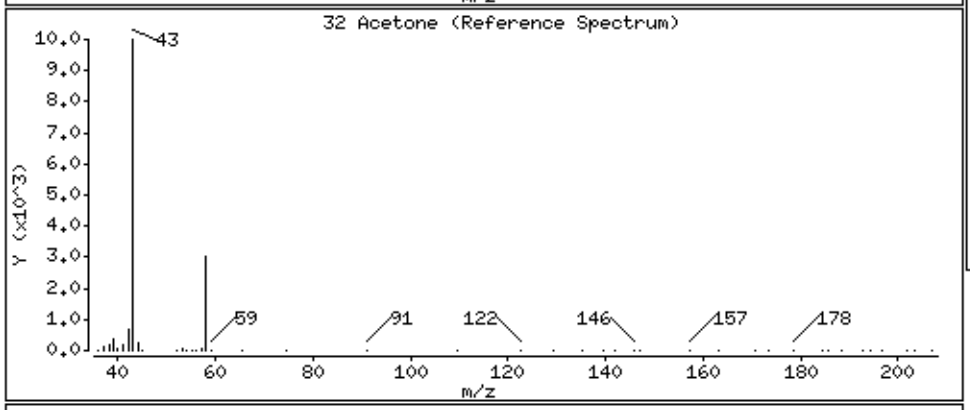
Concentration: 189.30 PPBV

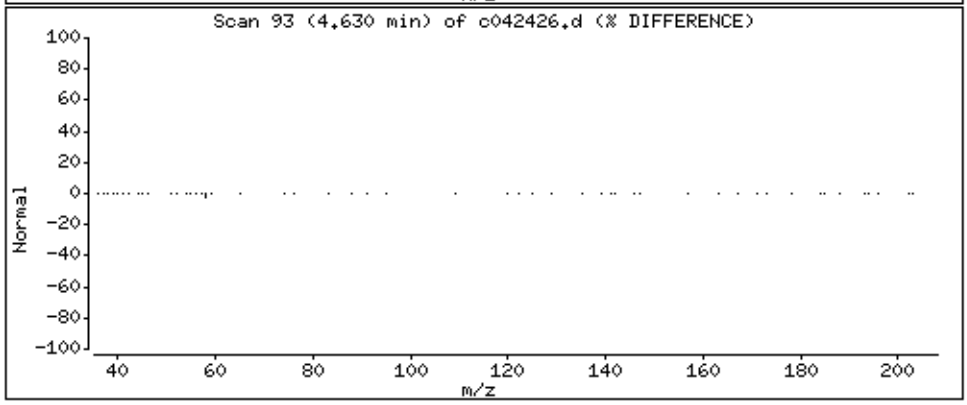












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

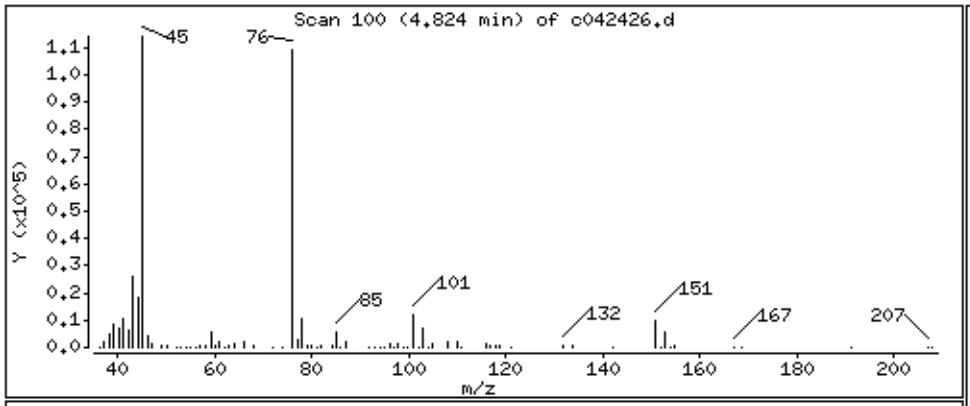
Operator: JP

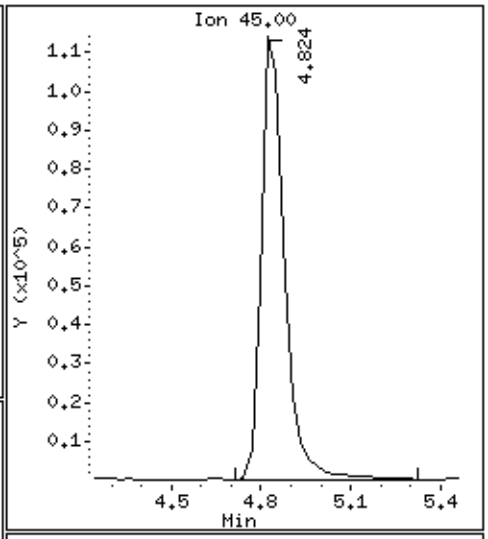
Column phase: RTx-624

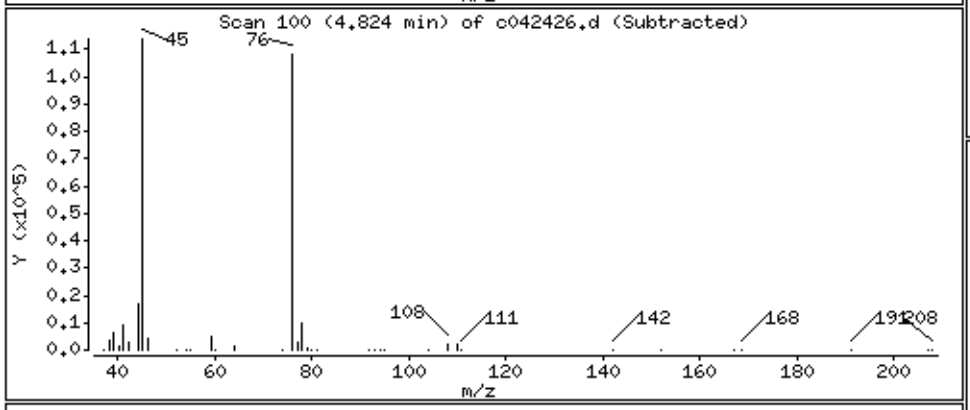
Column diameter: 0.53

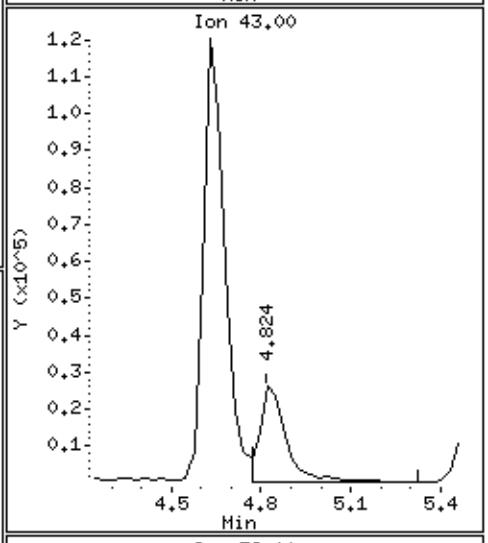
36 2-Propanol

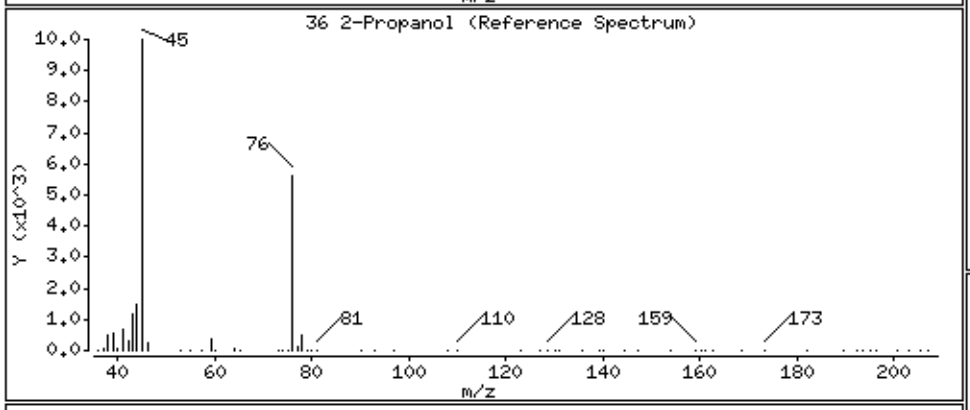
Concentration: 206.14 PPBV

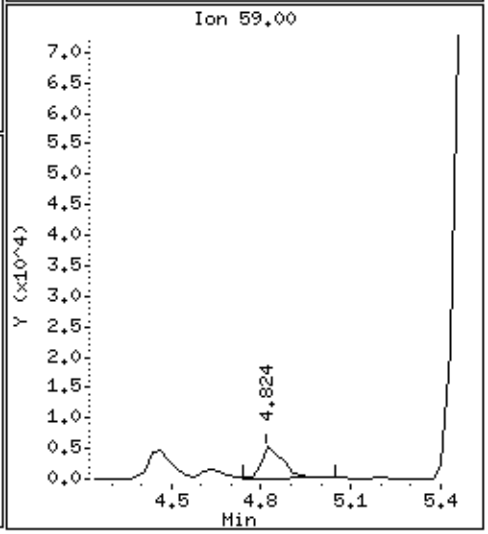


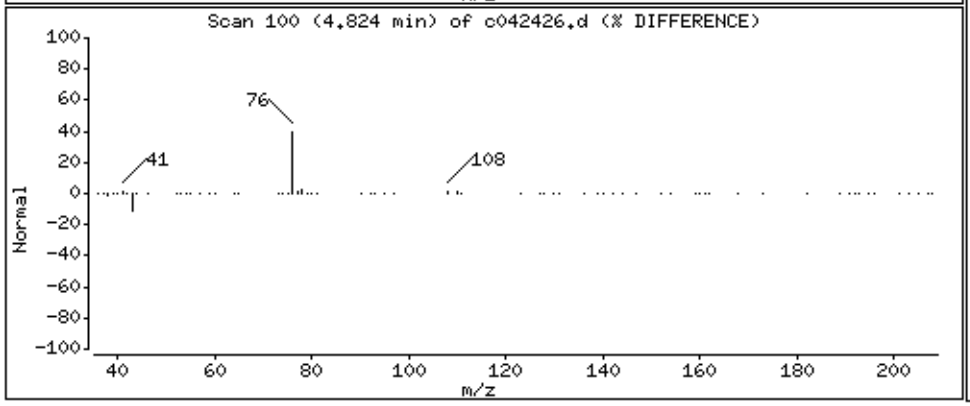












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

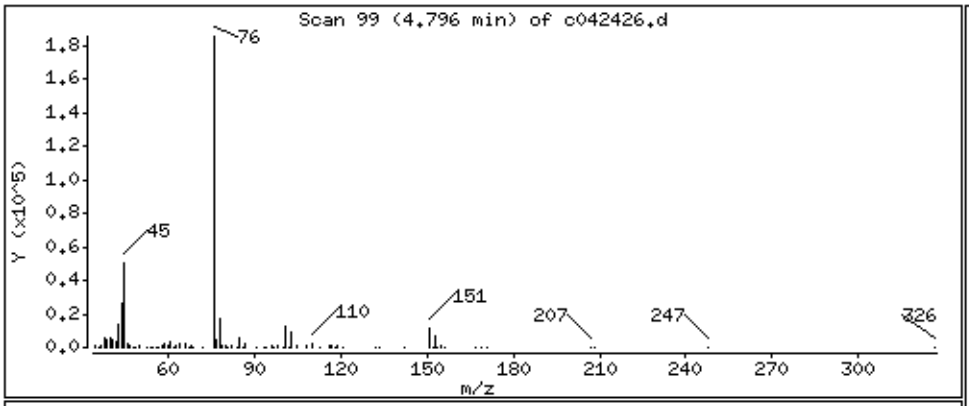
Operator: JP

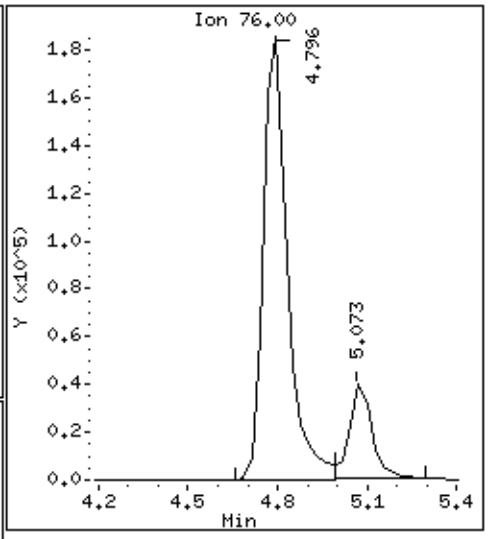
Column phase: RTx-624

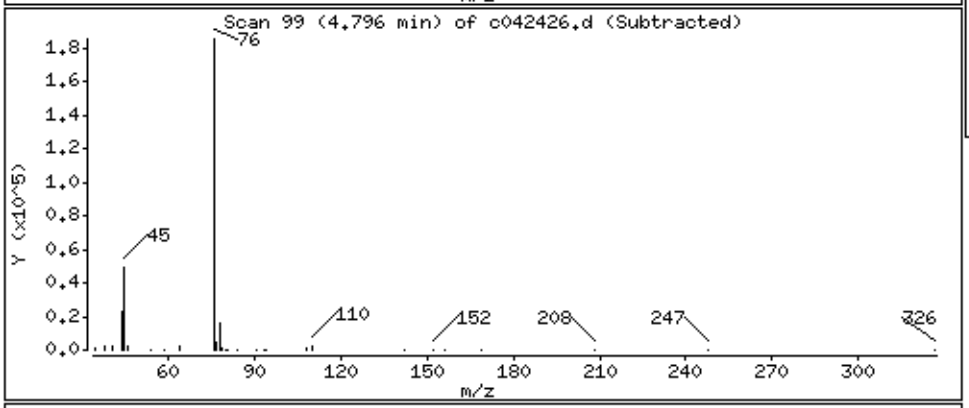
Column diameter: 0.53

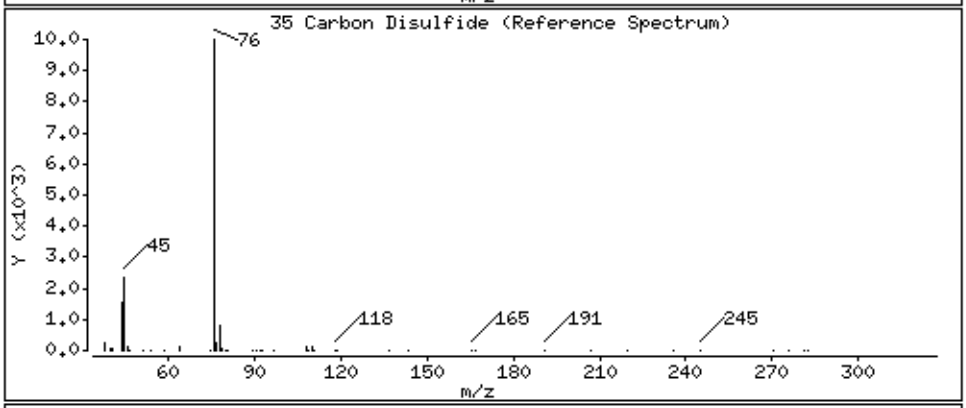
35 Carbon Disulfide

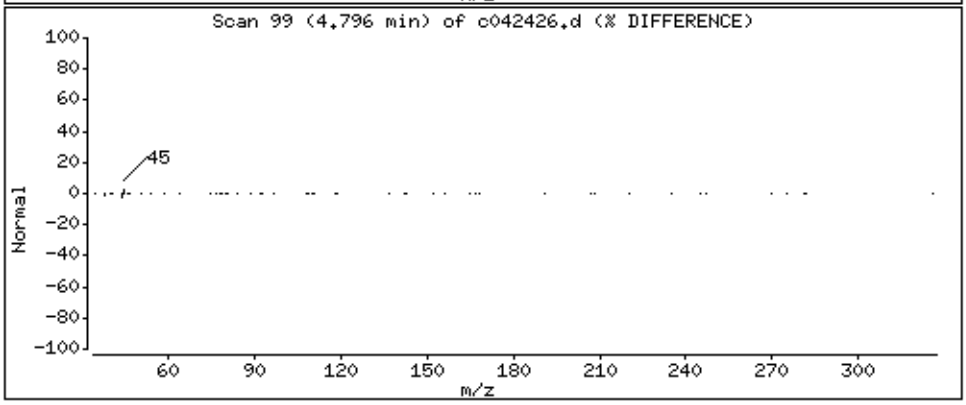
Concentration: 204.33 PPBV











Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

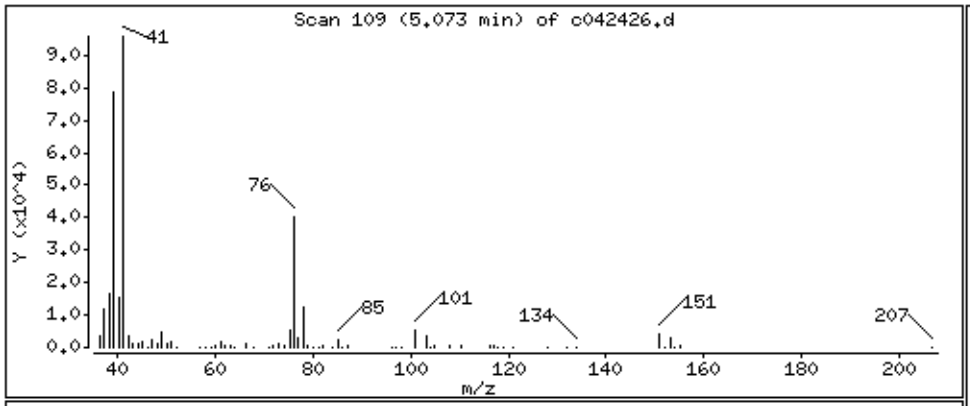
Operator: JP

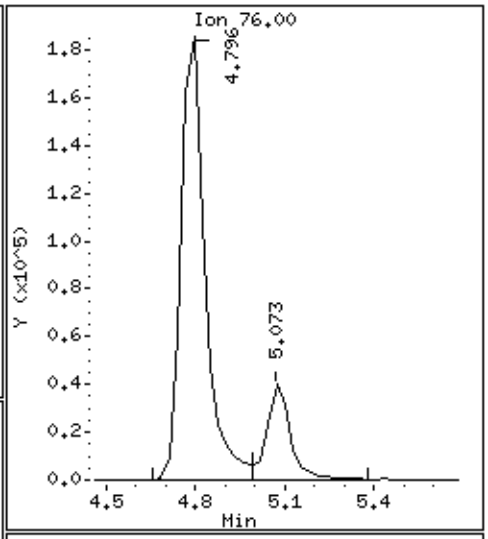
Column phase: RTx-624

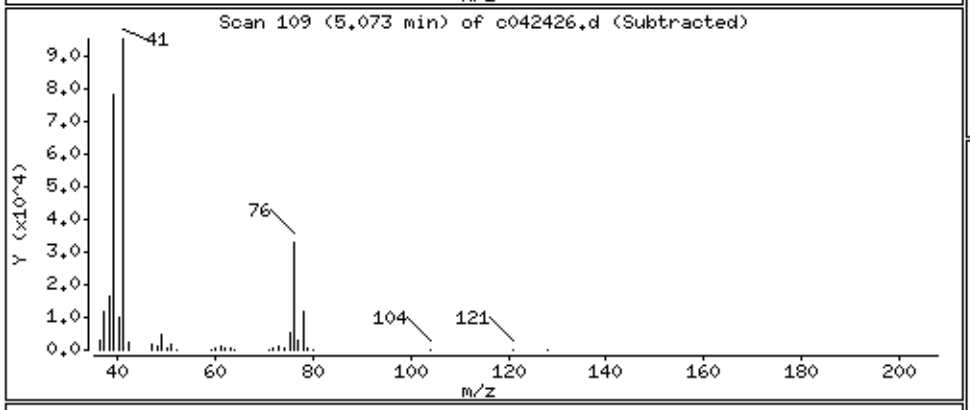
Column diameter: 0.53

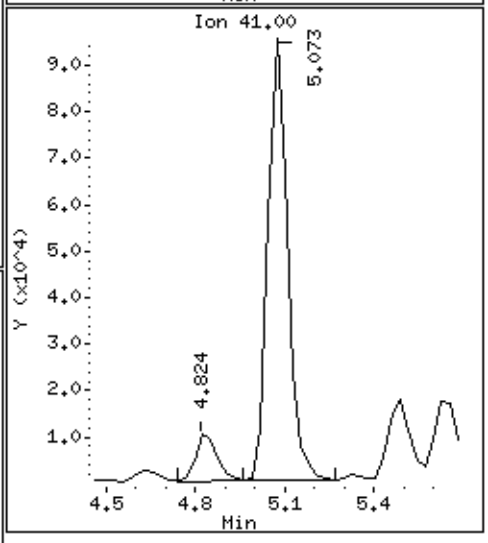
38 3-Chloropropene

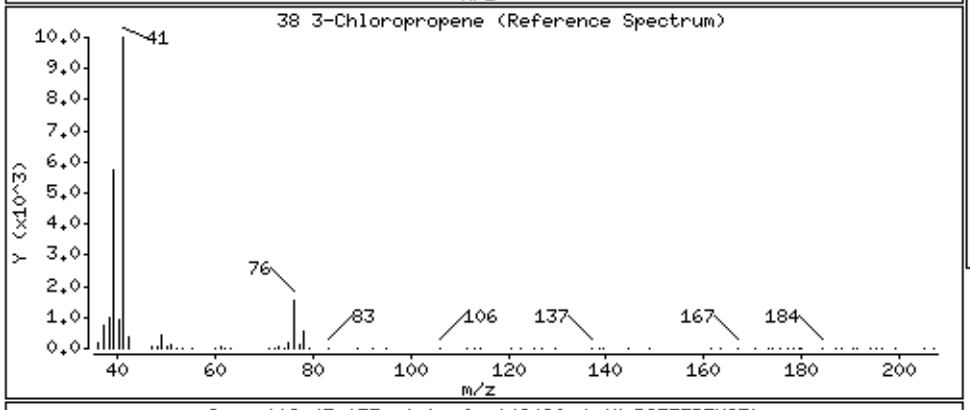
Concentration: 191.85 PPBV

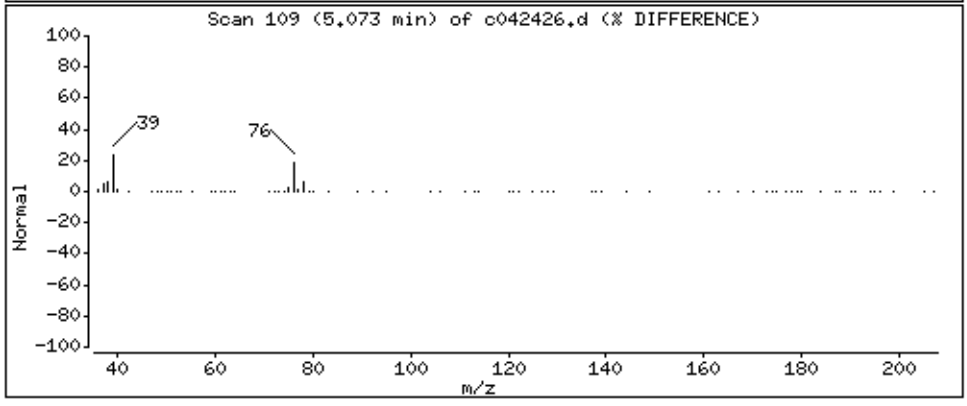












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

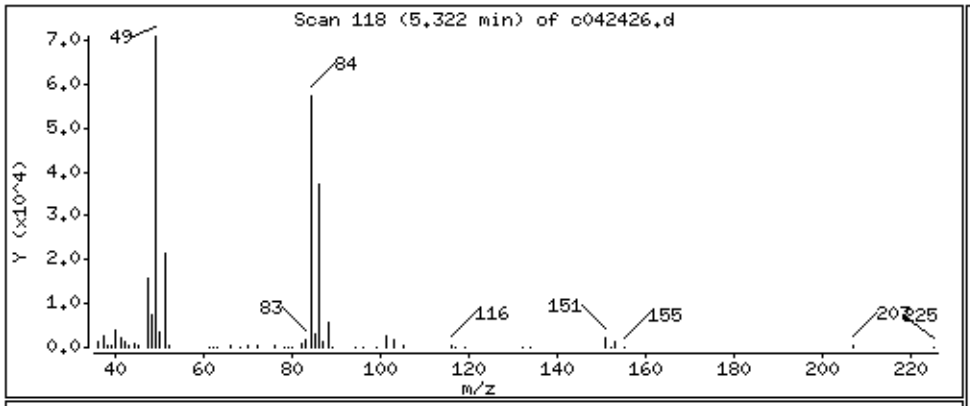
Operator: JP

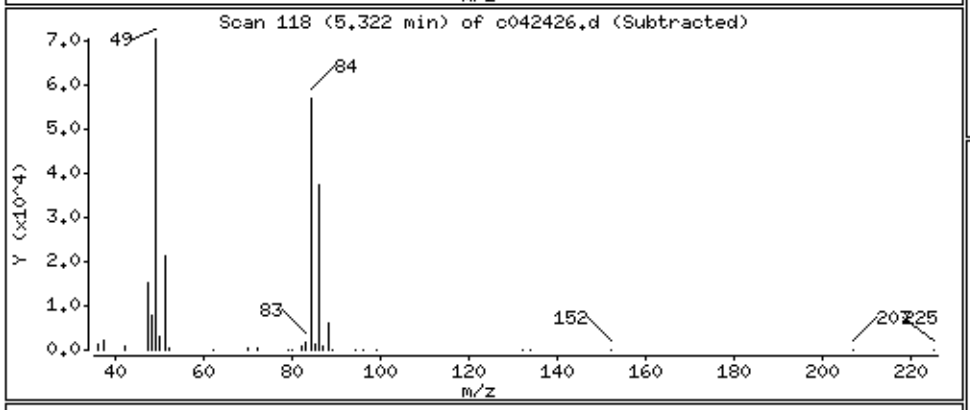
Column phase: RTx-624

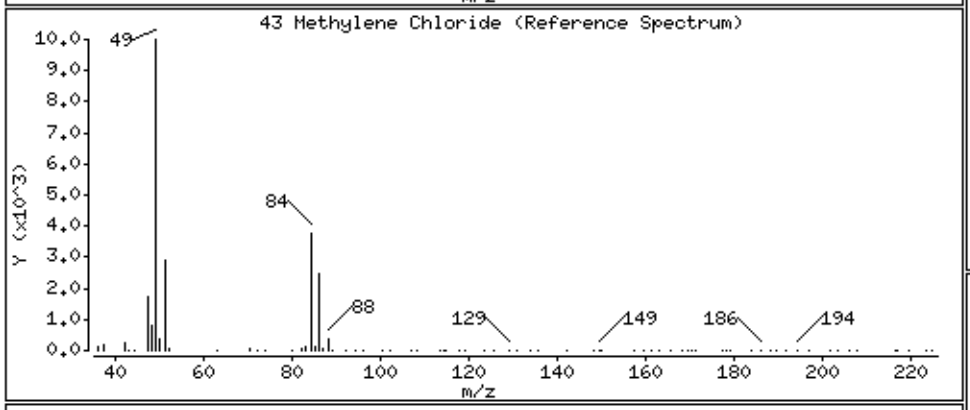
Column diameter: 0.53

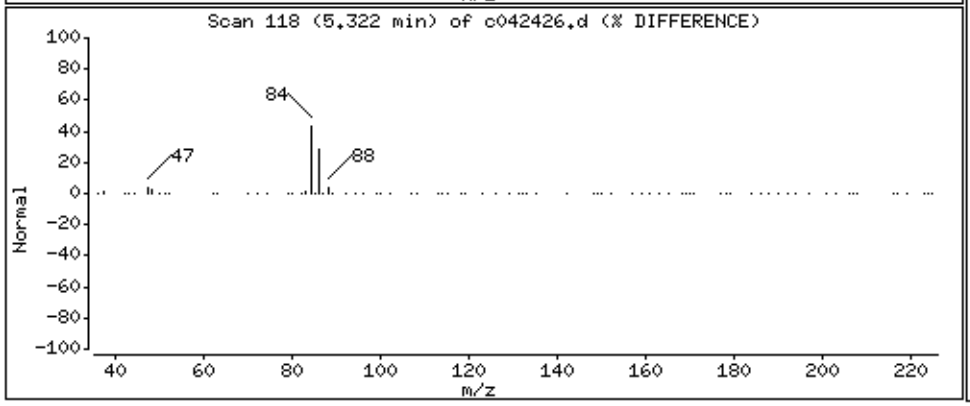
43 Methylene Chloride

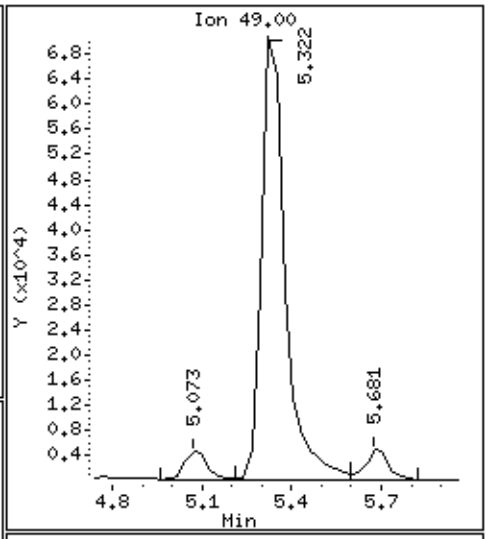
Concentration: 180.70 PPBV

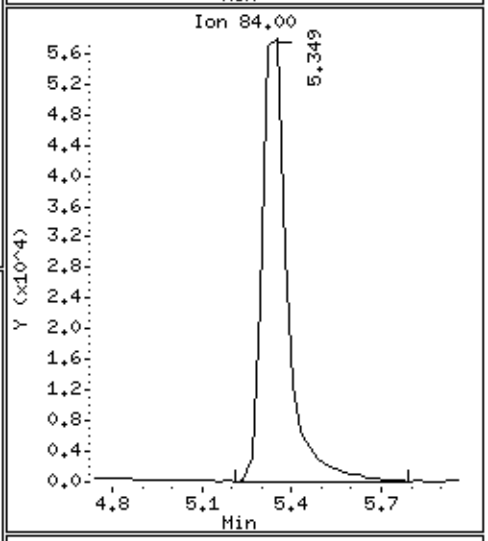


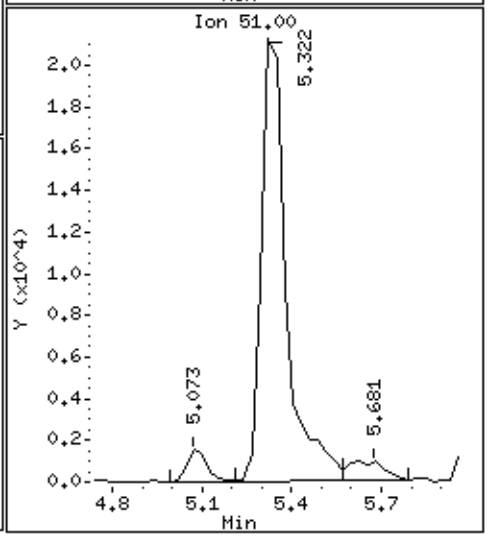












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

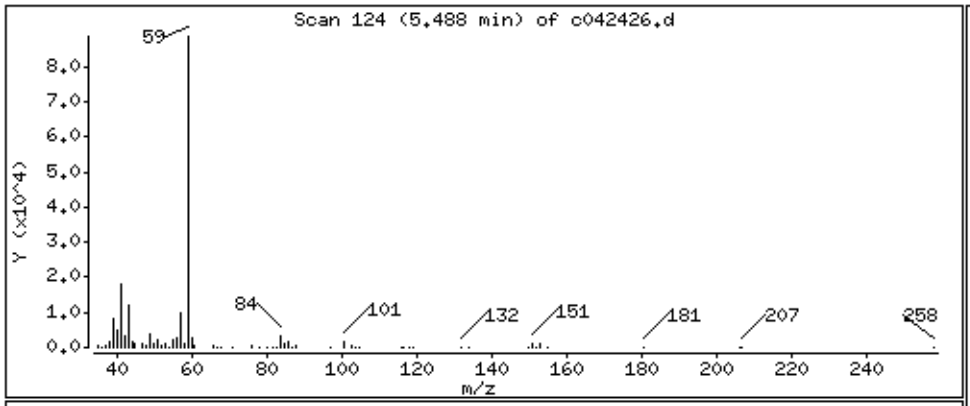
Operator: JP

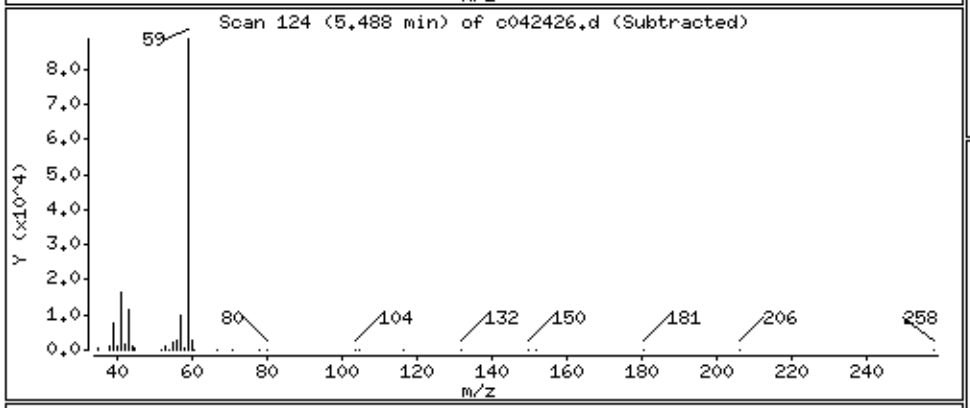
Column phase: RTx-624

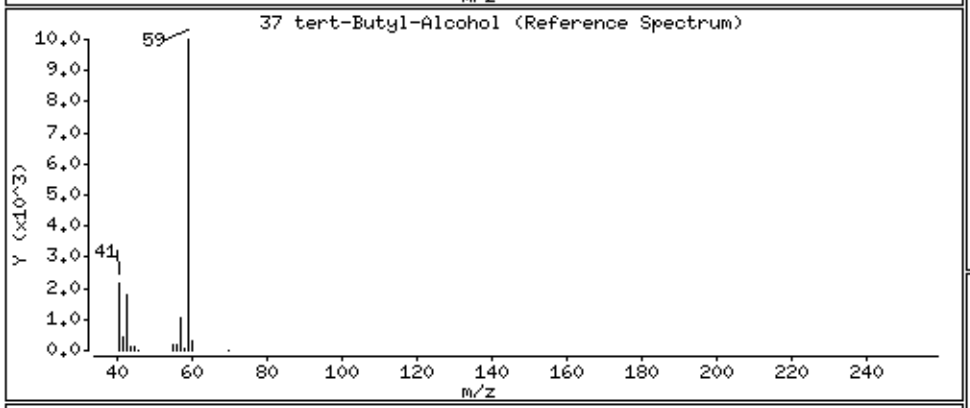
Column diameter: 0.53

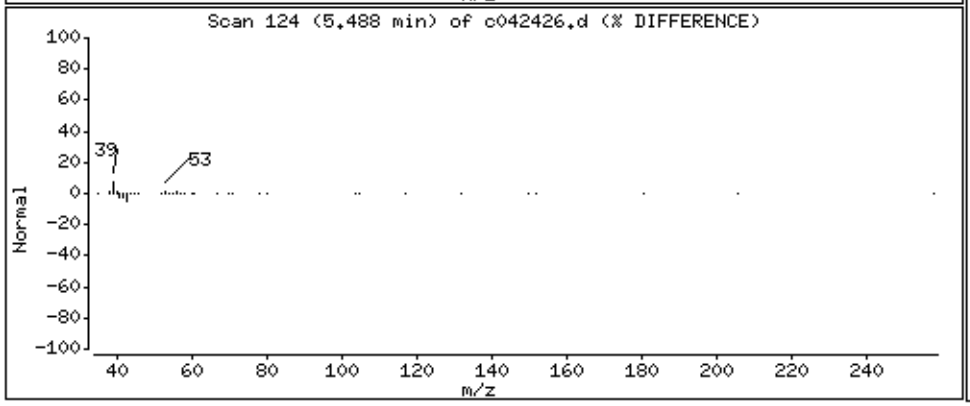
37 tert-Butyl-Alcohol

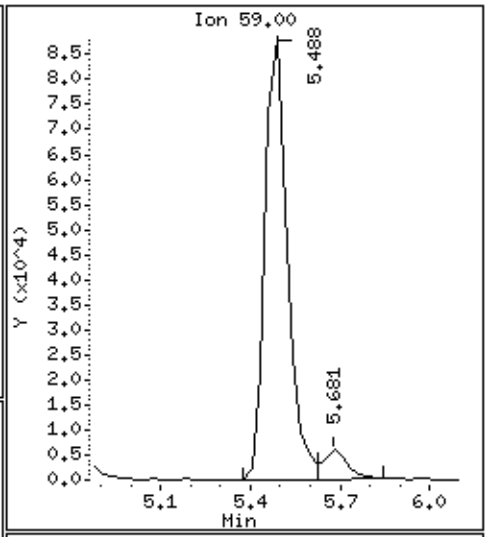
Concentration: 187.06 PPBV

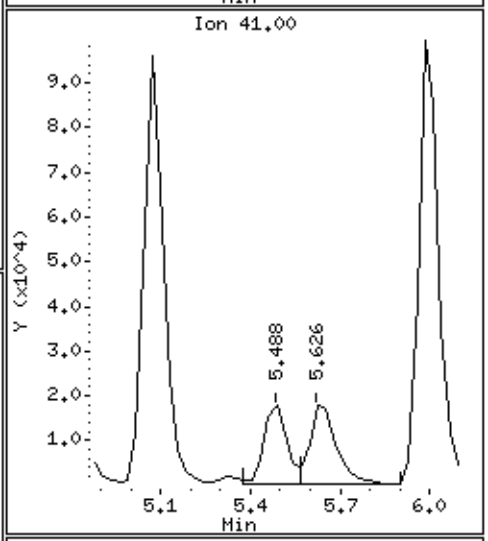


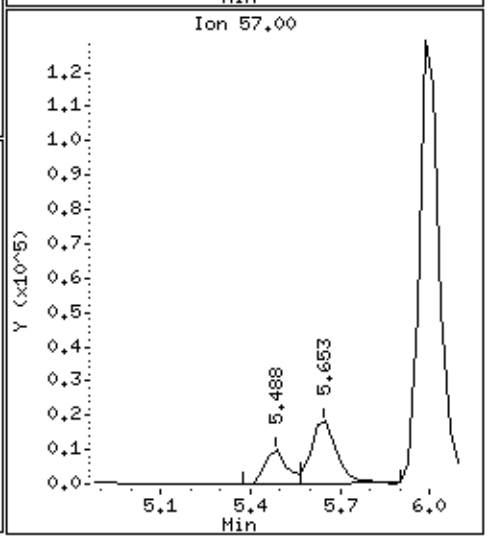












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

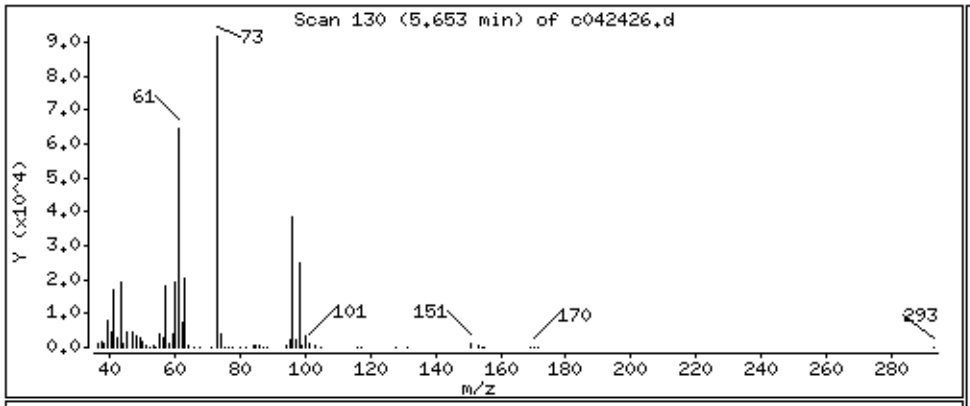
Operator: JP

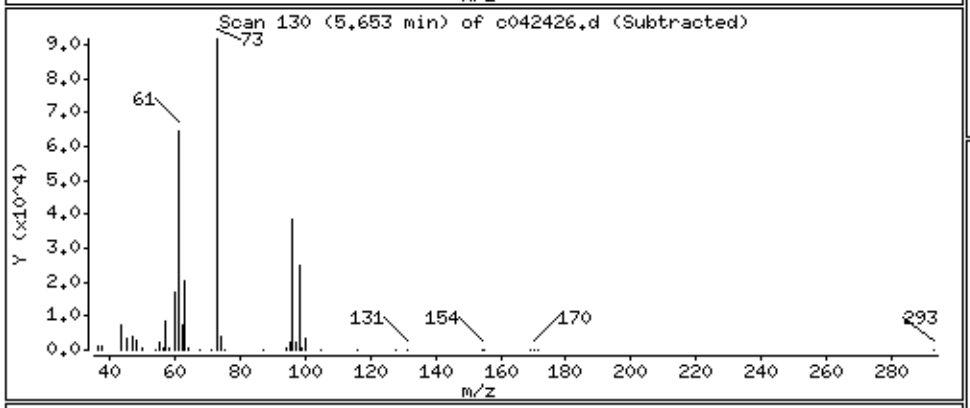
Column phase: RTx-624

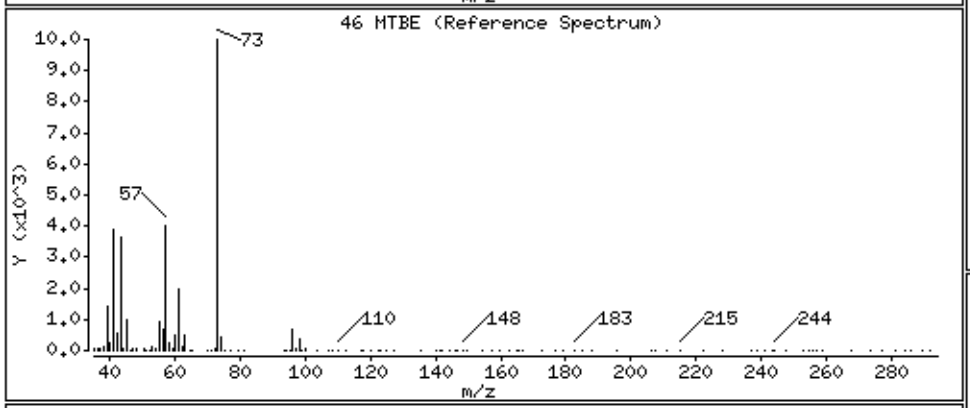
Column diameter: 0.53

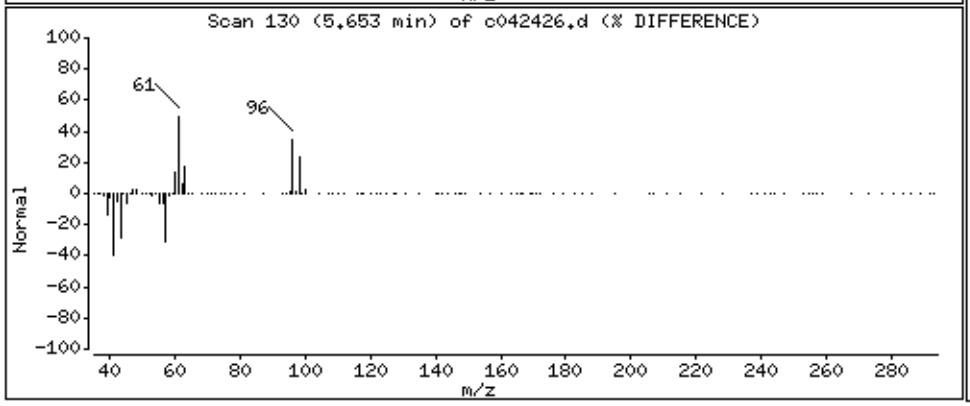
46 MTBE

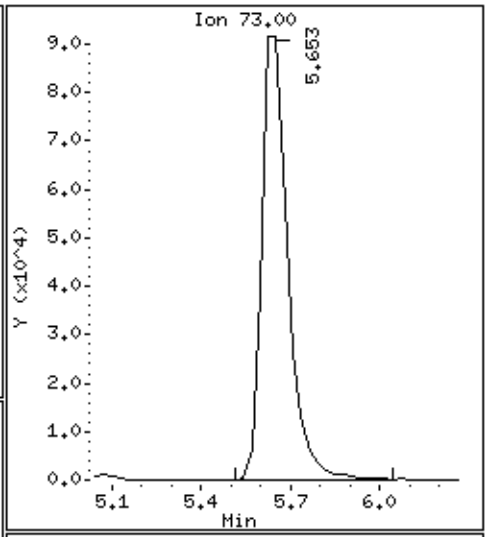
Concentration: 228.90 PPBV

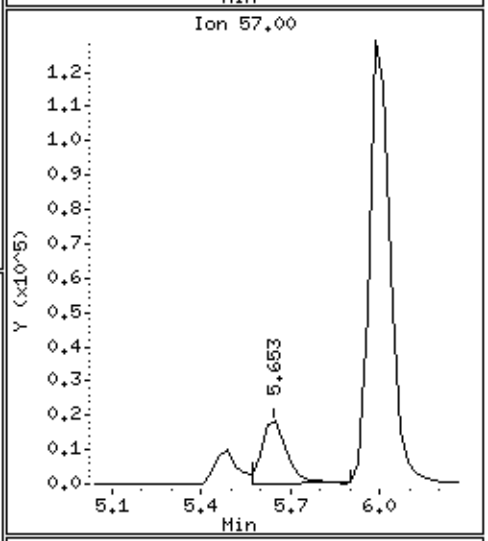


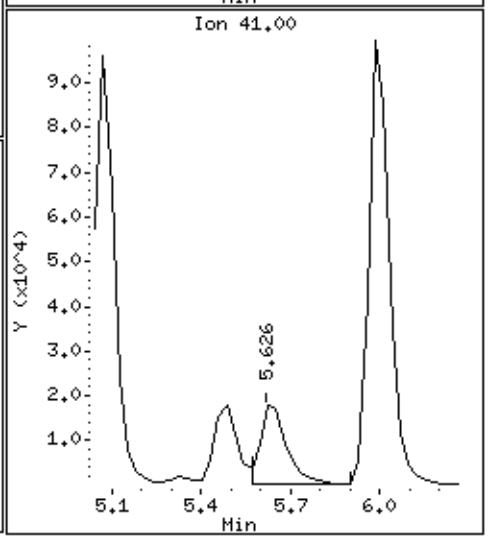












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

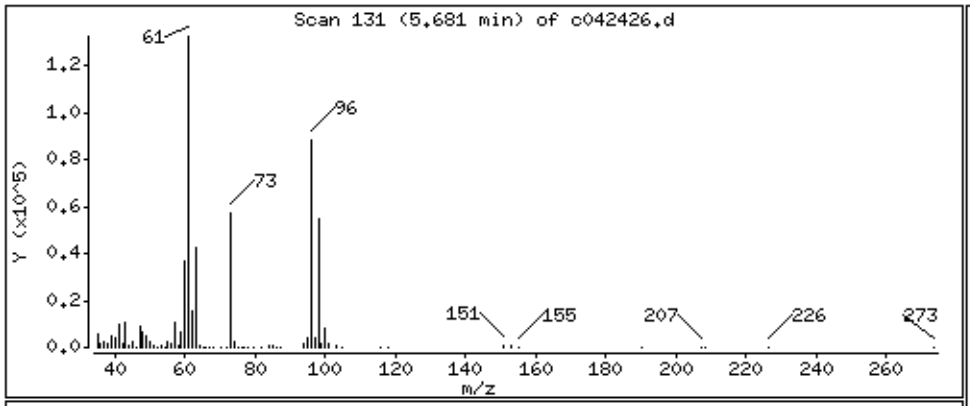
Operator: JP

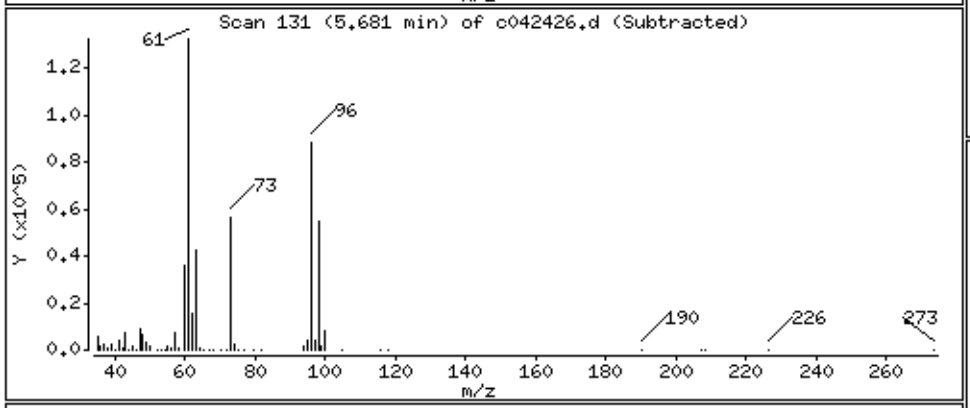
Column phase: RTx-624

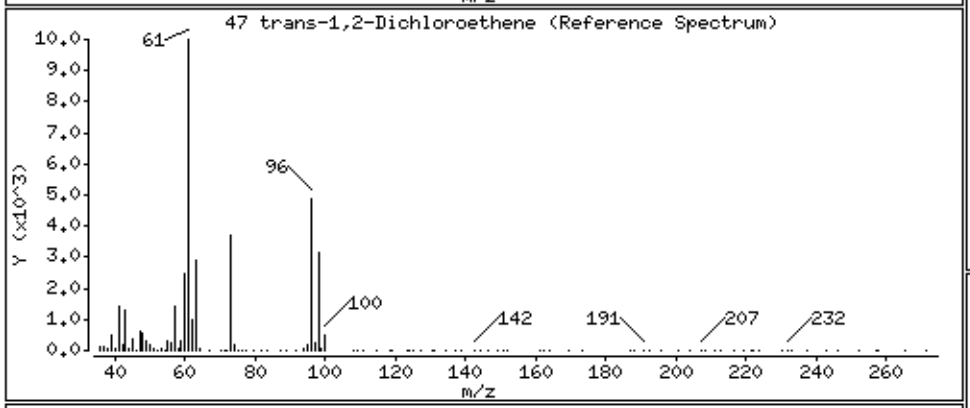
Column diameter: 0.53

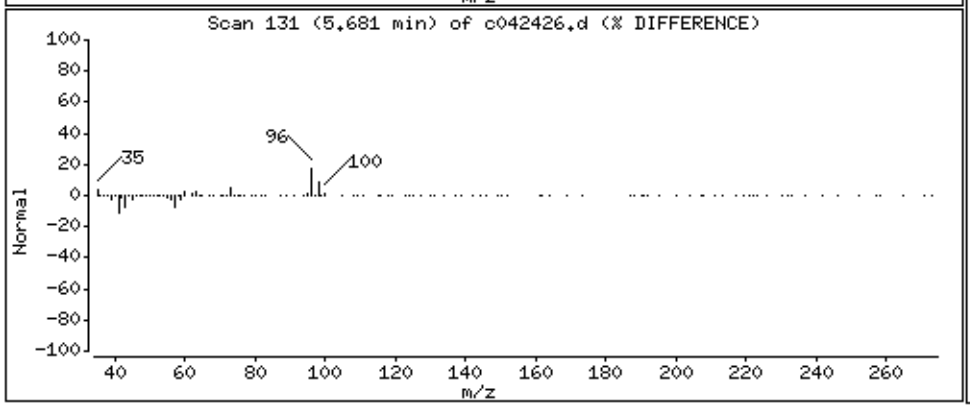
47 trans-1,2-Dichloroethene

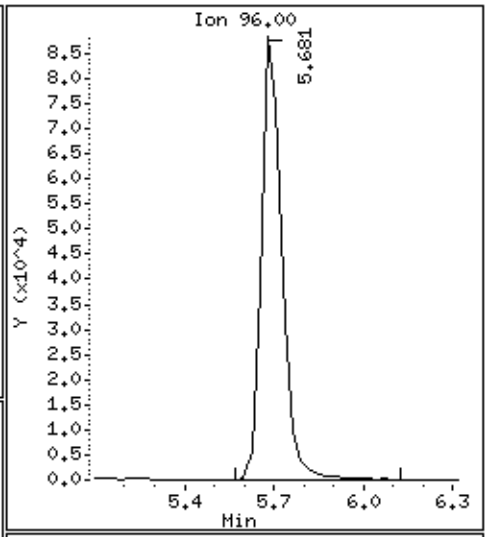
Concentration: 200.14 PPBV

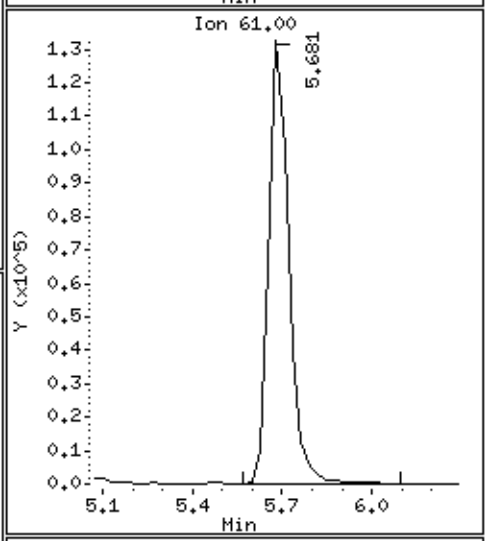


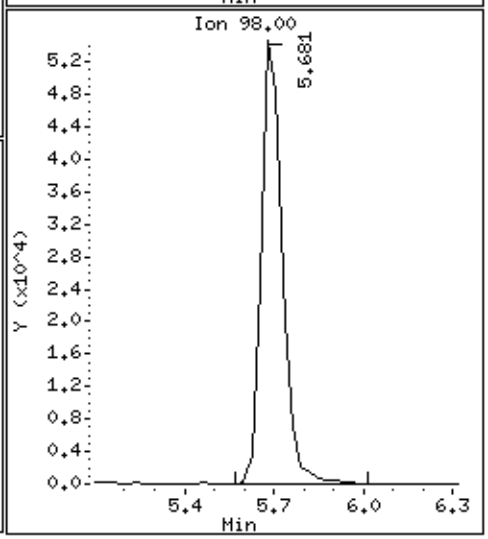












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

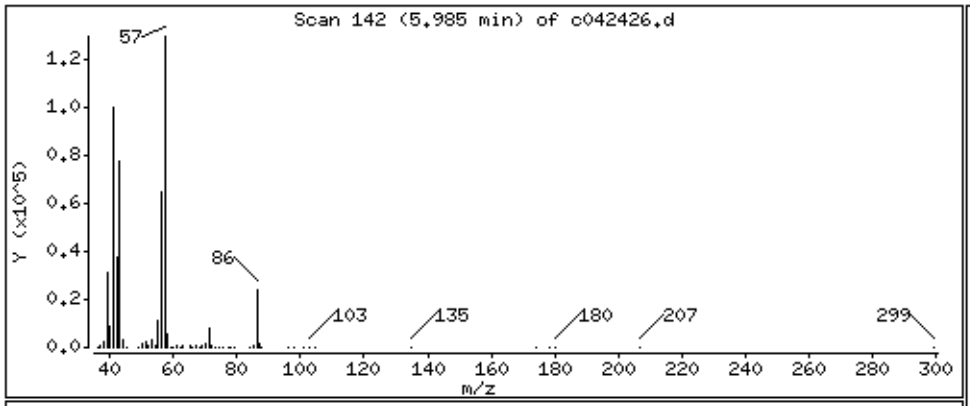
Operator: JP

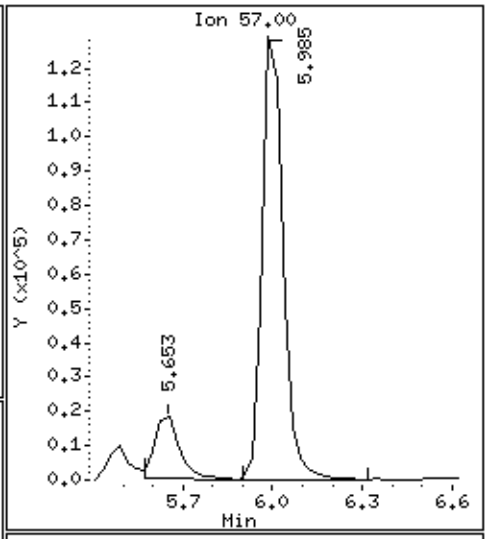
Column phase: RTx-624

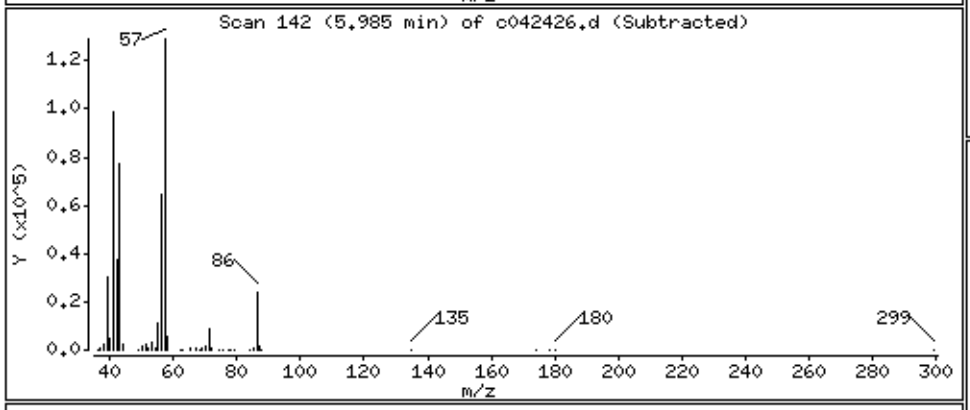
Column diameter: 0.53

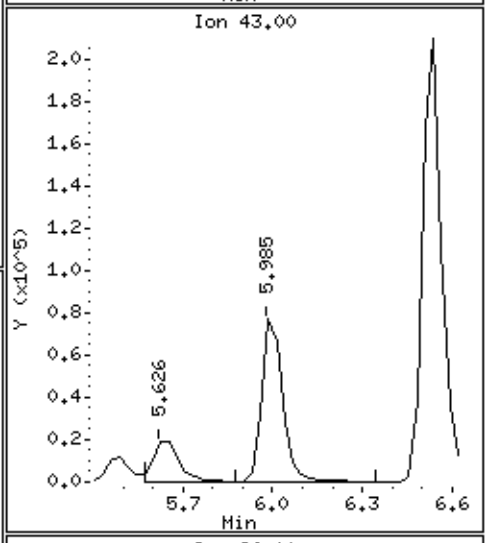
51 Hexane

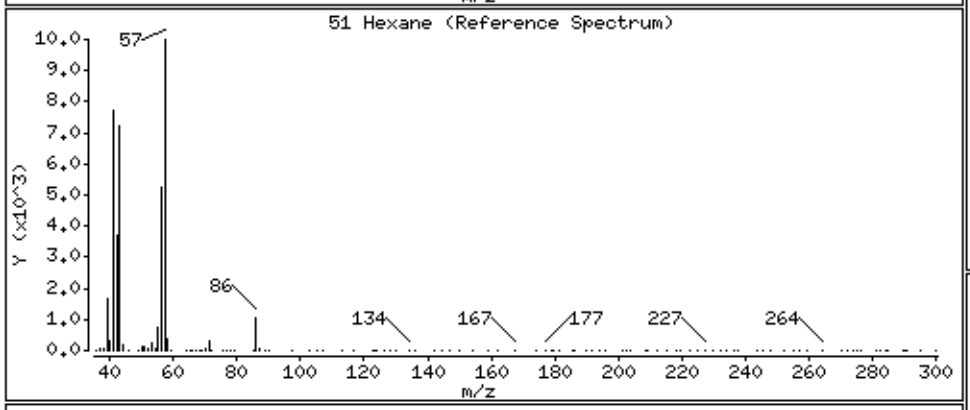
Concentration: 194.46 PPBV

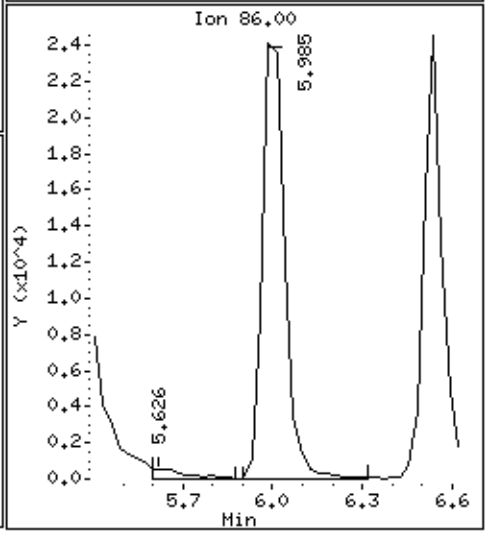


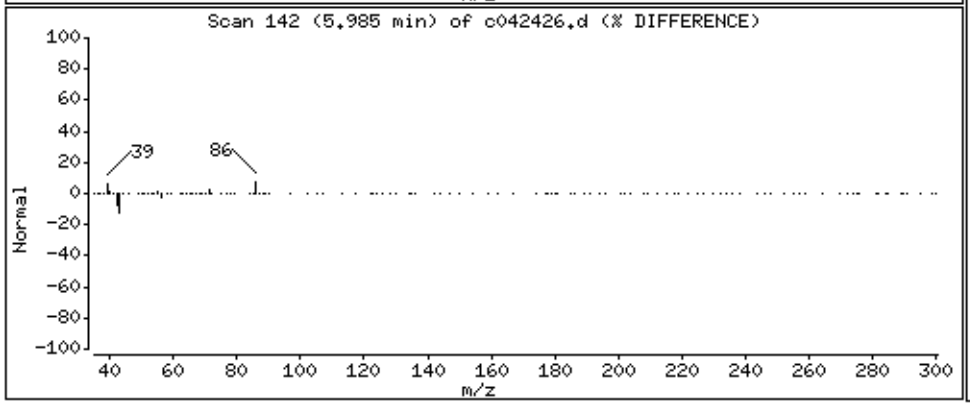












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

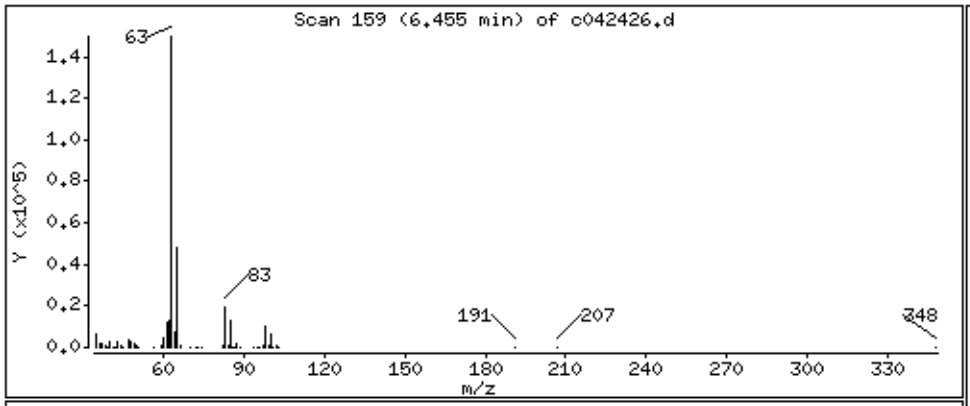
Operator: JP

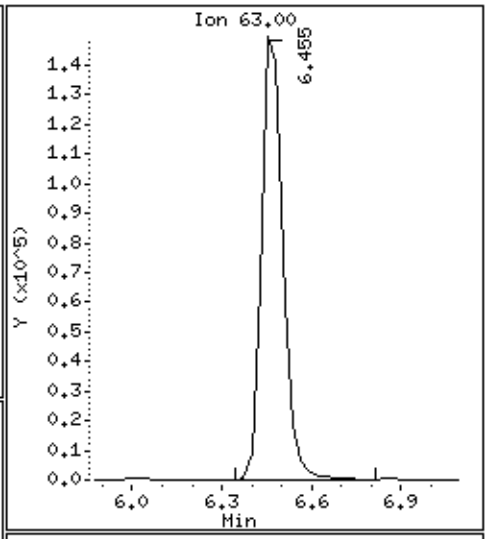
Column phase: RTx-624

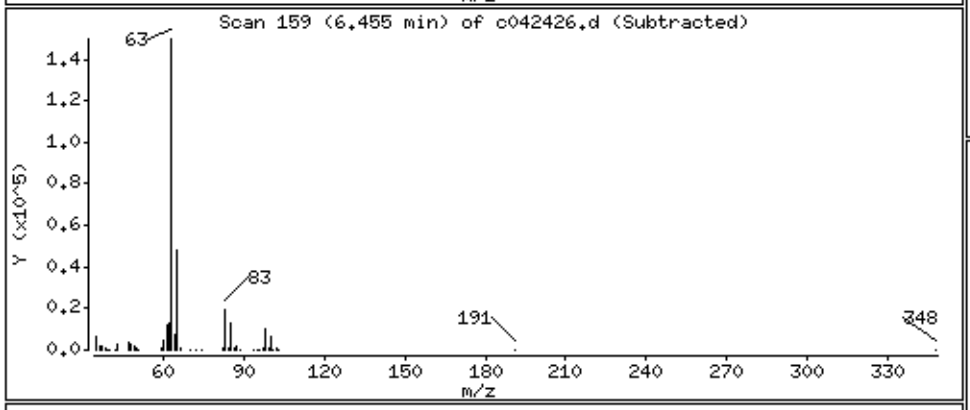
Column diameter: 0.53

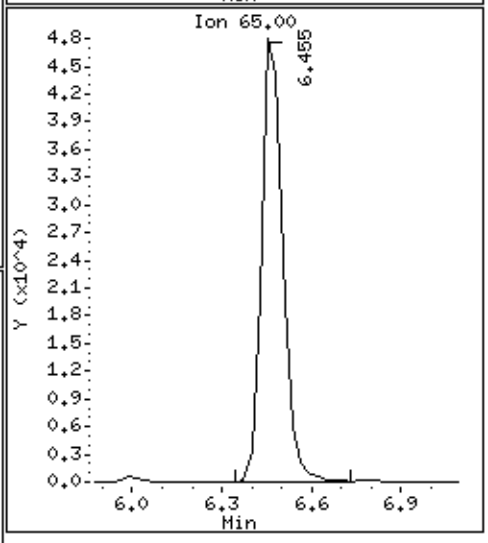
55 1,1-Dichloroethane

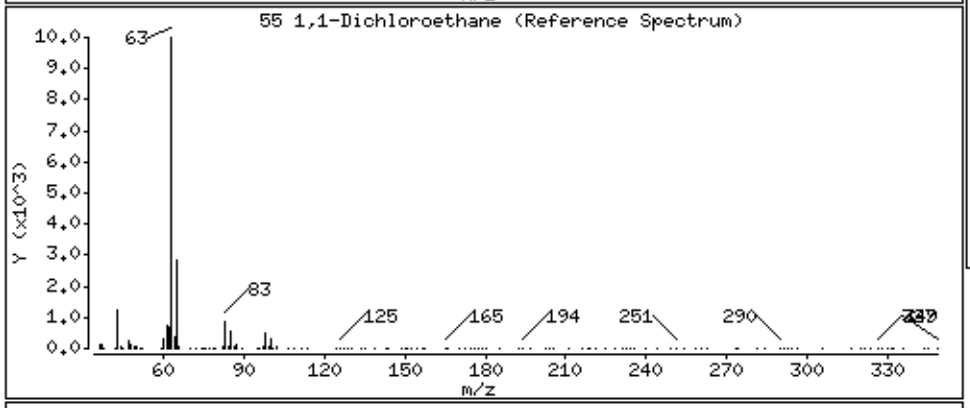
Concentration: 202.28 PPBV

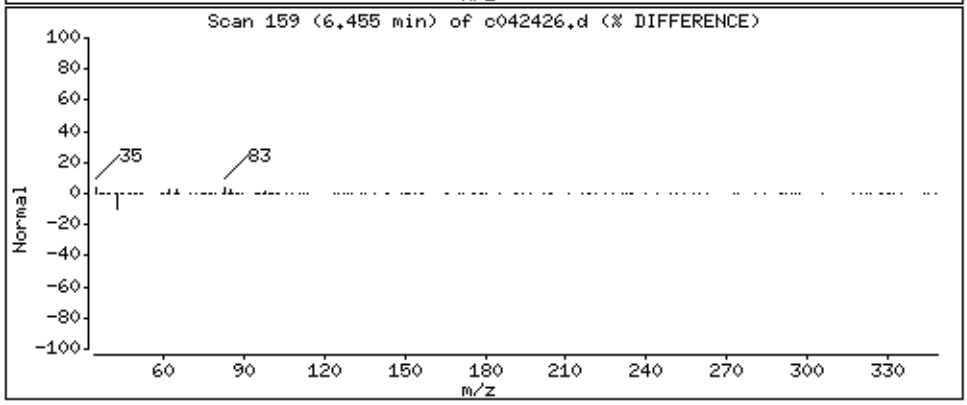












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

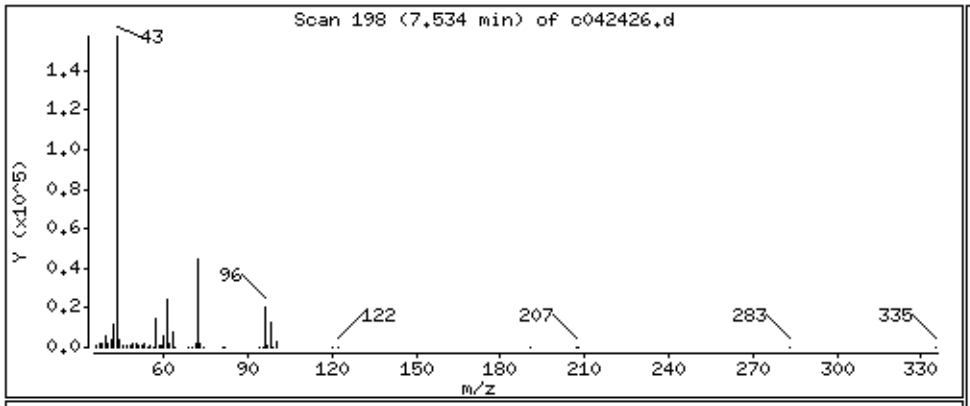
Operator: JP

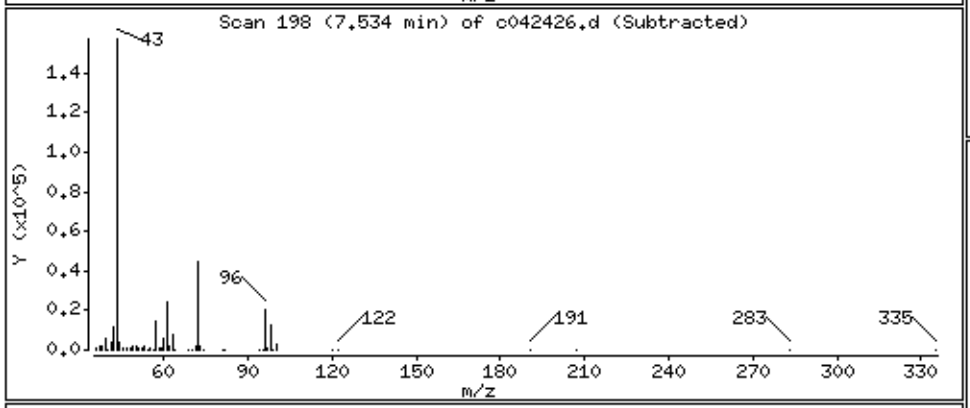
Column phase: RTx-624

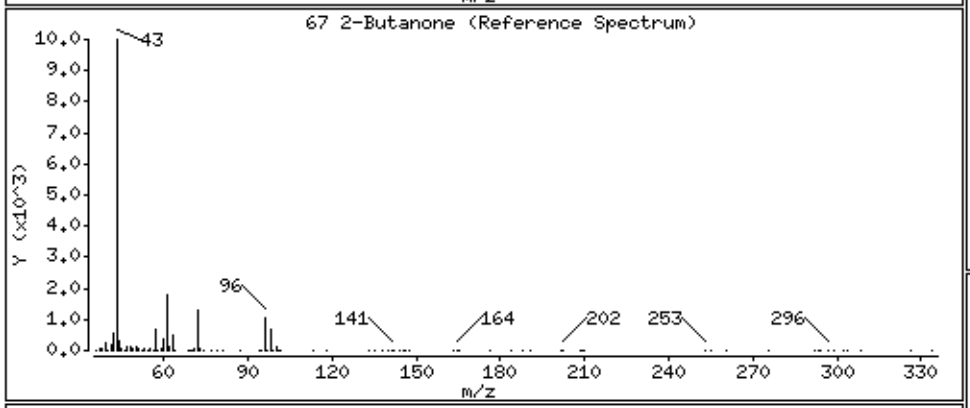
Column diameter: 0.53

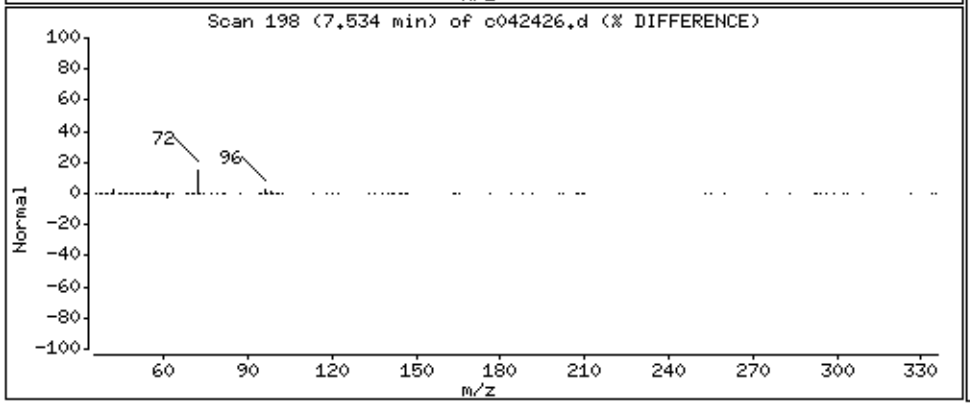
67 2-Butanone

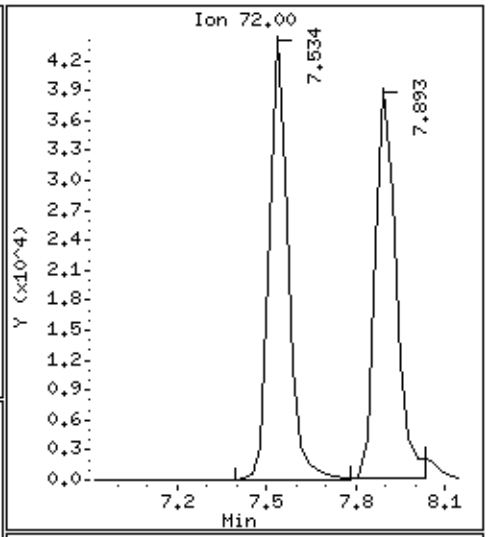
Concentration: 193.40 PPBV

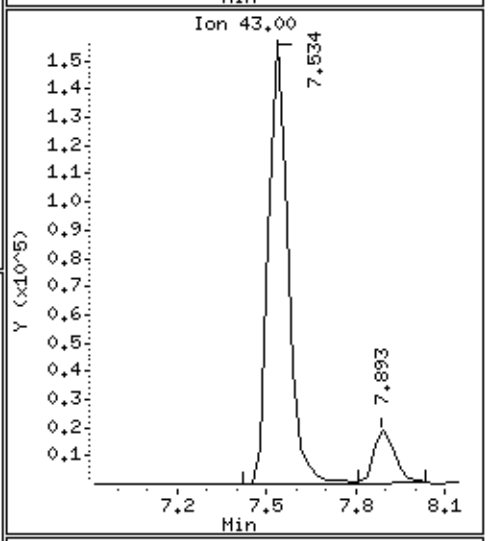


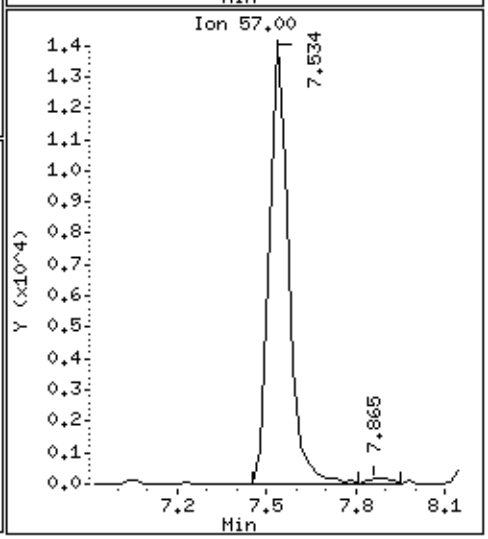












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

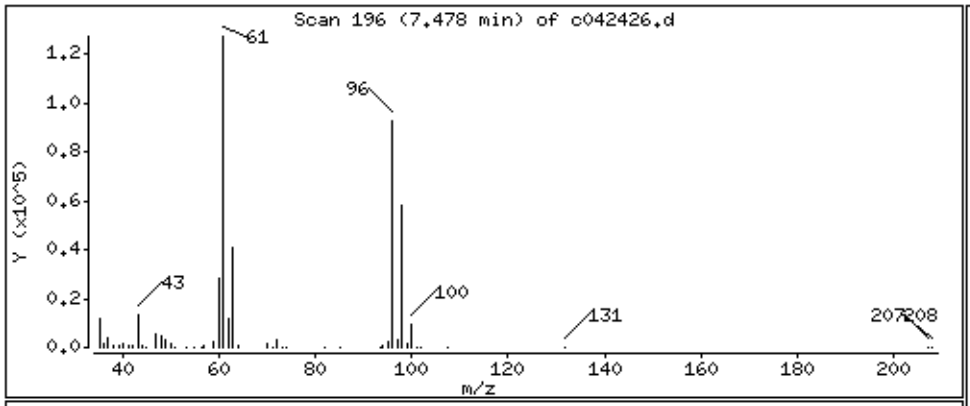
Operator: JP

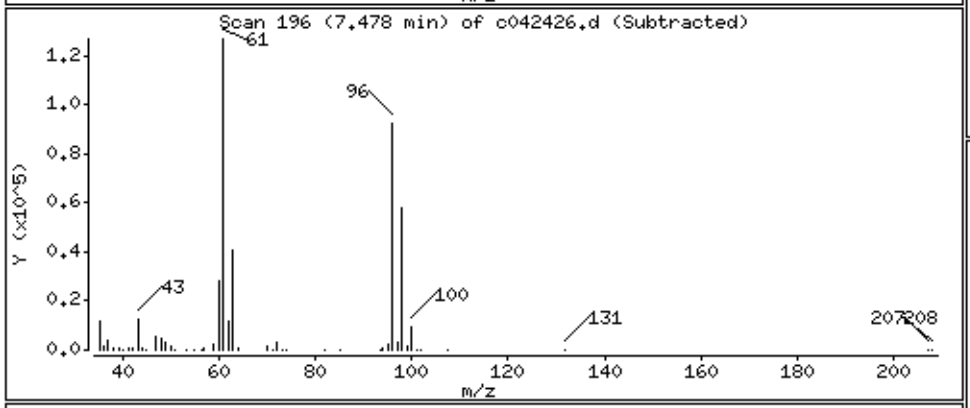
Column phase: RTx-624

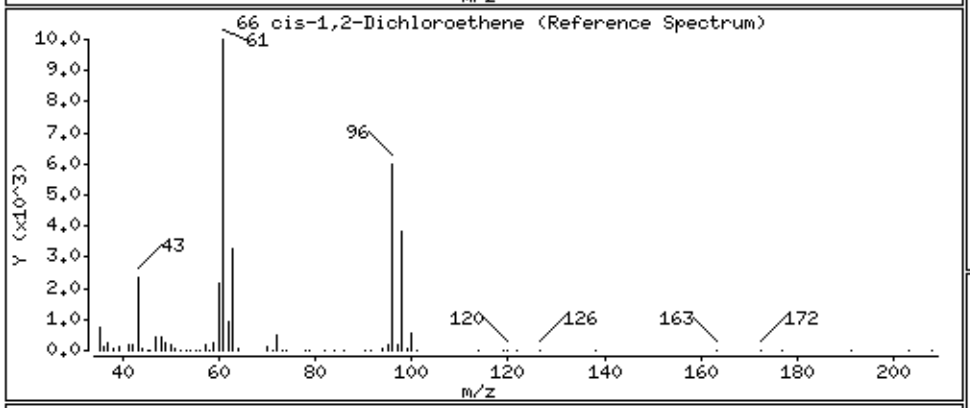
Column diameter: 0.53

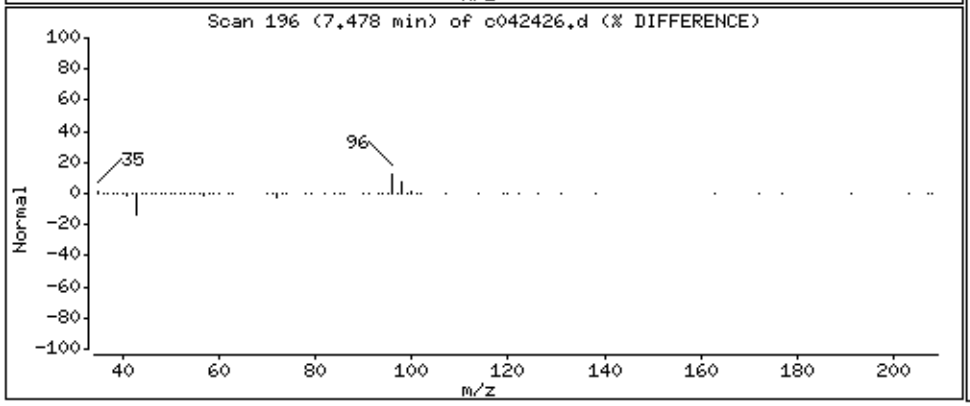
66 cis-1,2-Dichloroethene

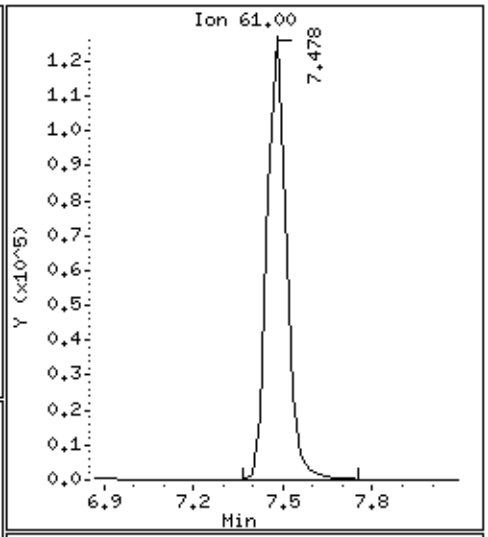
Concentration: 196.26 PPBV

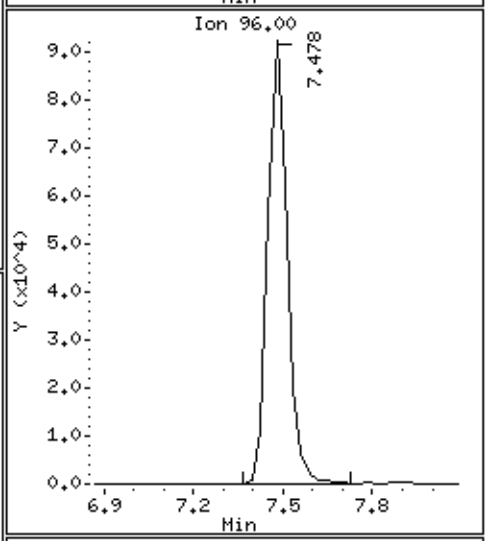


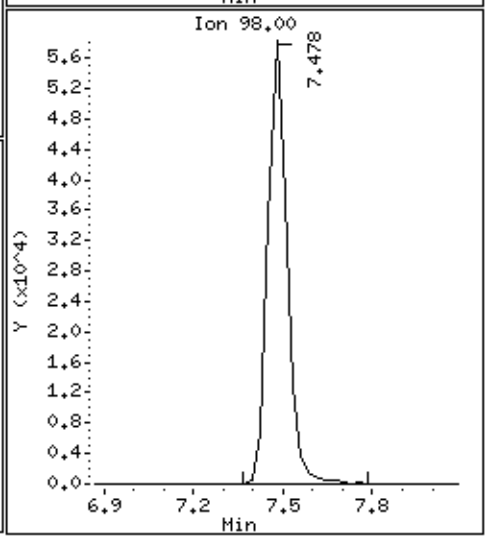












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

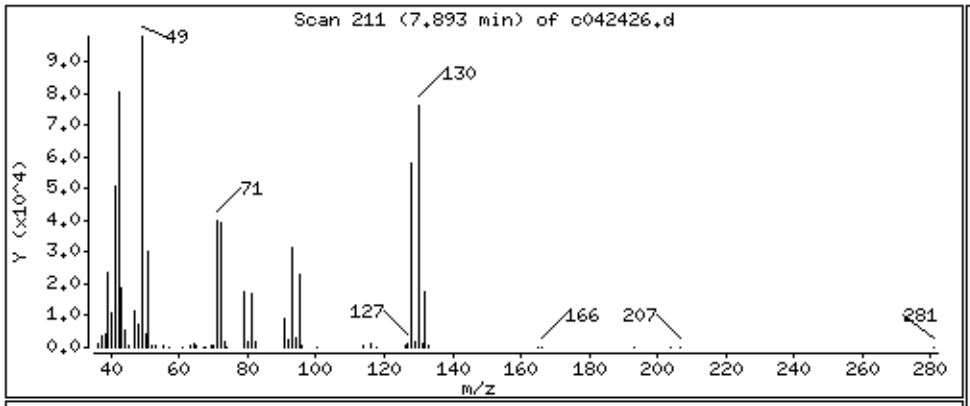
Operator: JP

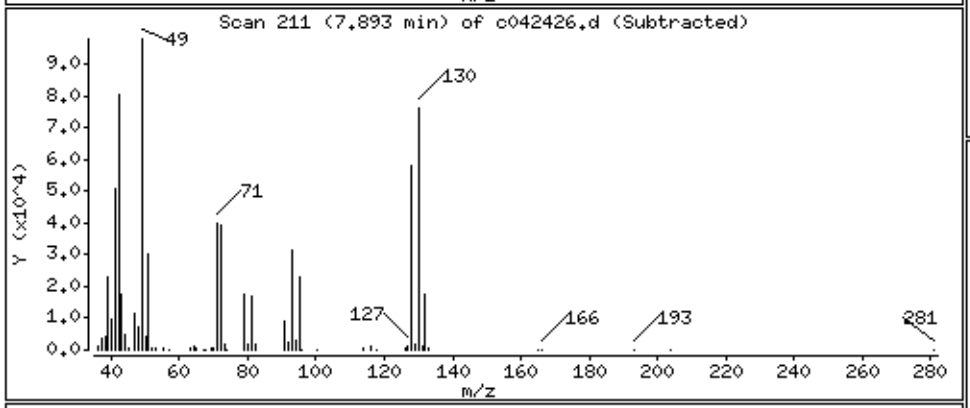
Column phase: RTx-624

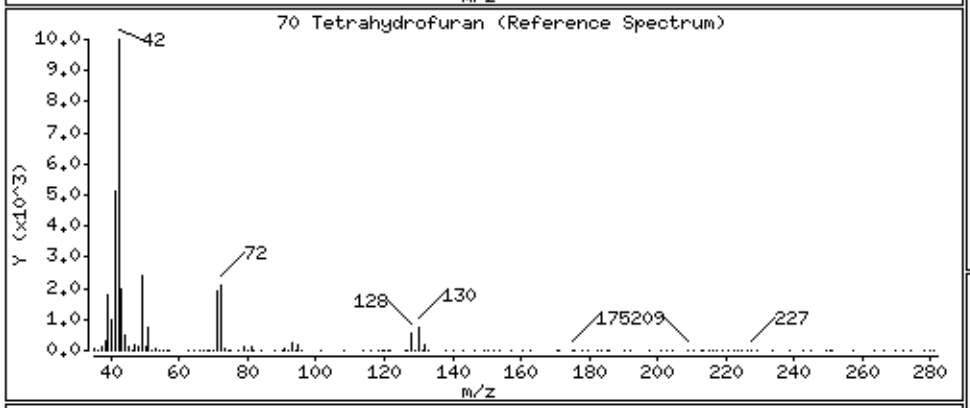
Column diameter: 0.53

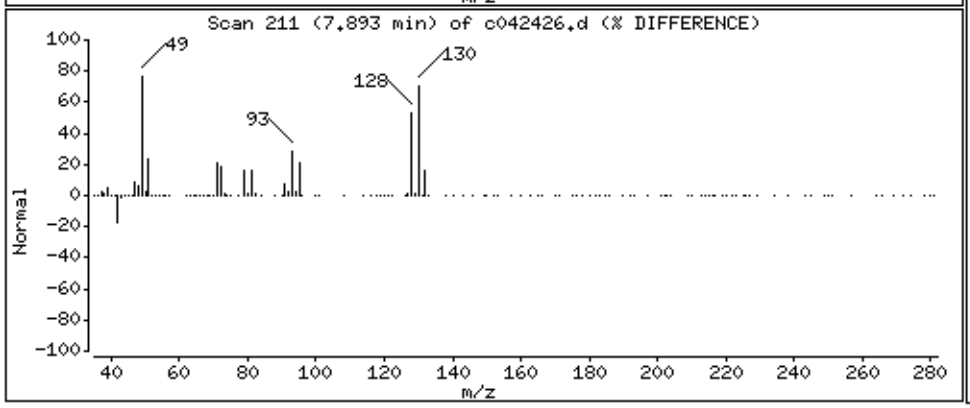
70 Tetrahydrofuran

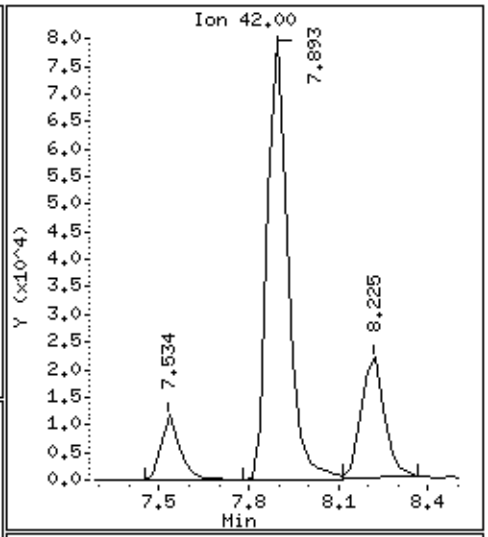
Concentration: 197.29 PPBV

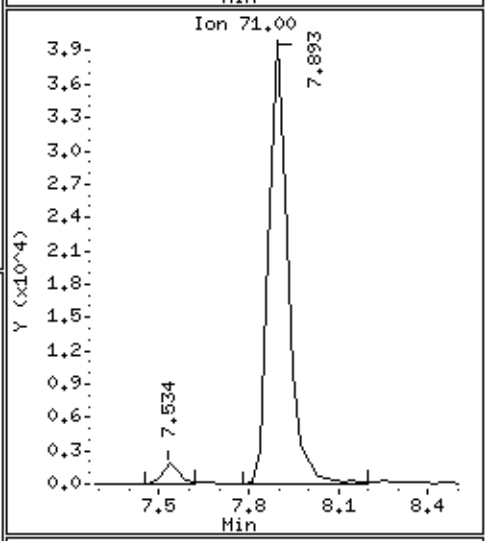


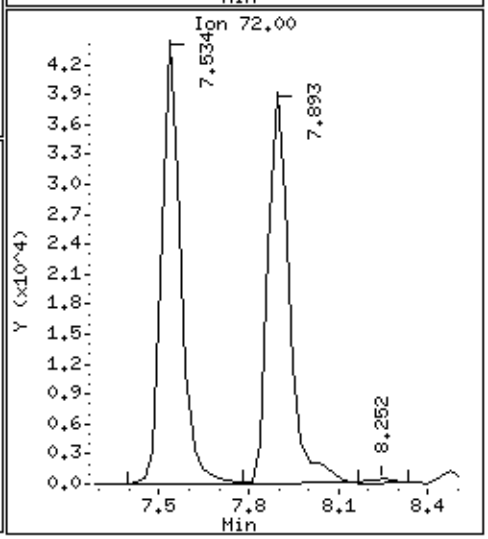












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

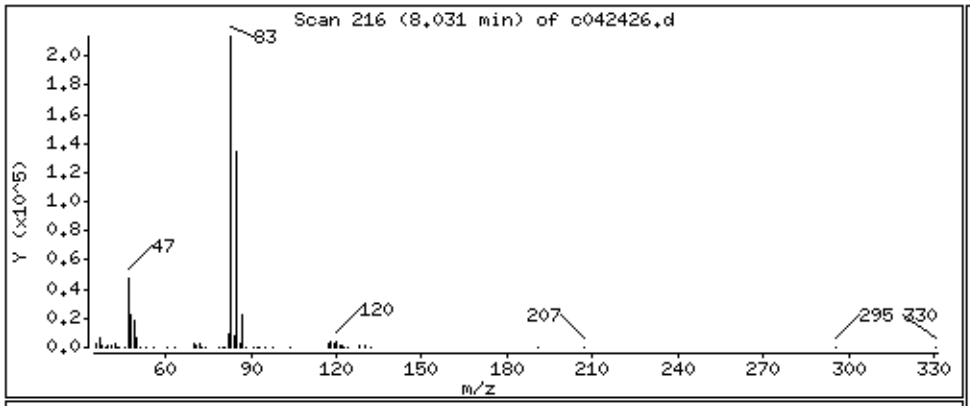
Operator: JP

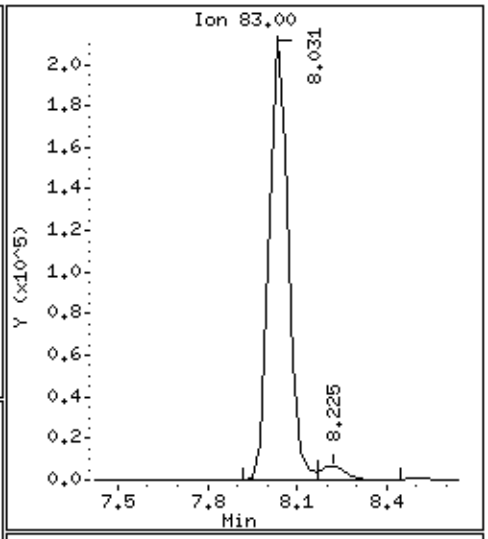
Column phase: RTx-624

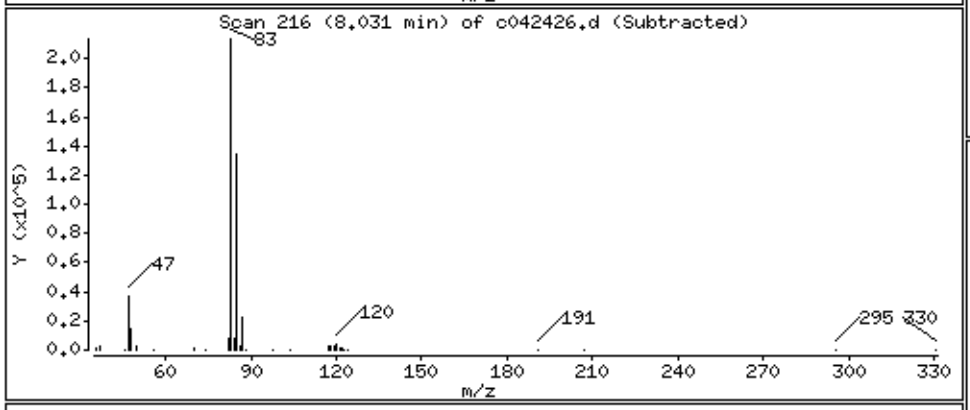
Column diameter: 0.53

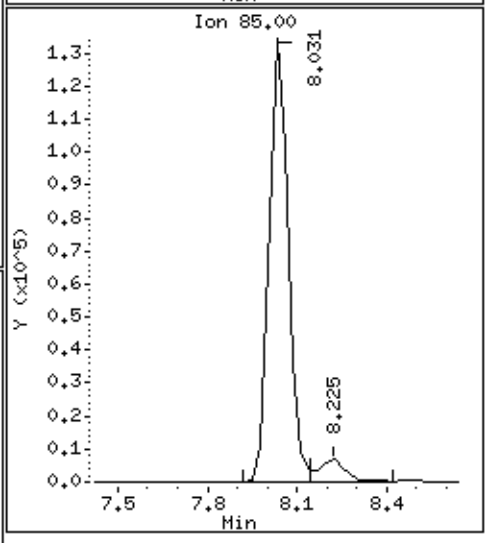
72 Chloroform

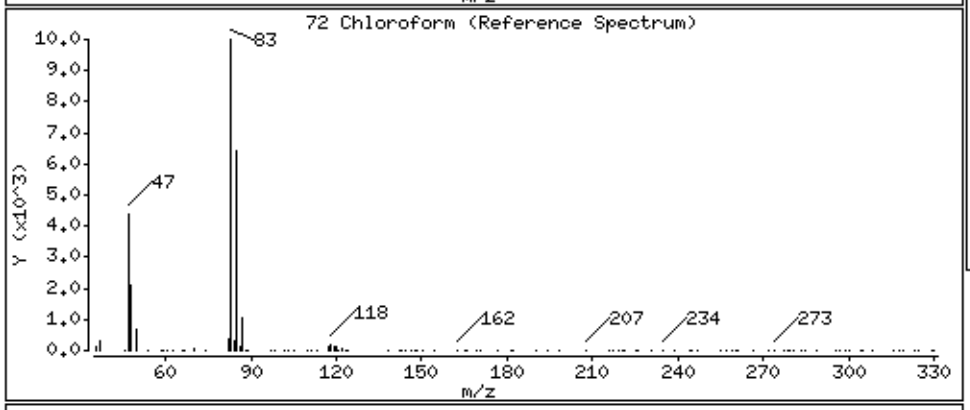
Concentration: 195.90 PPBV

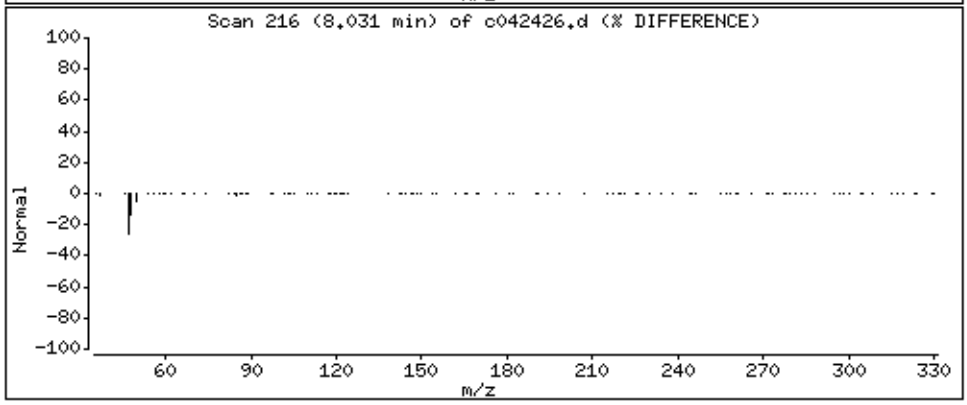












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

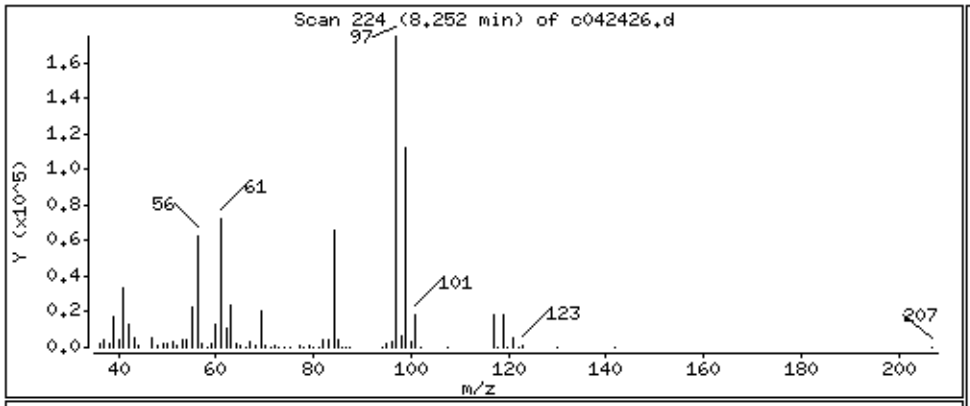
Operator: JP

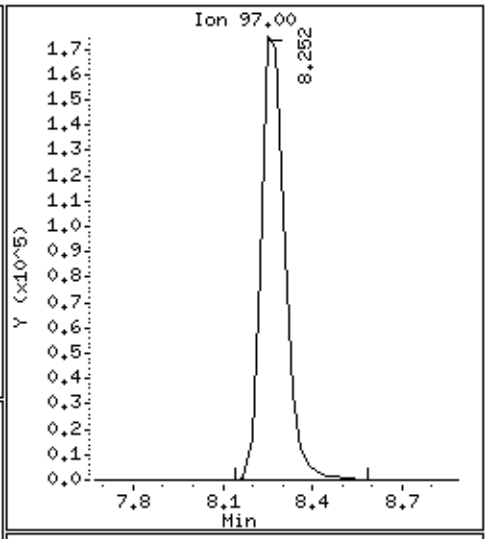
Column phase: RTx-624

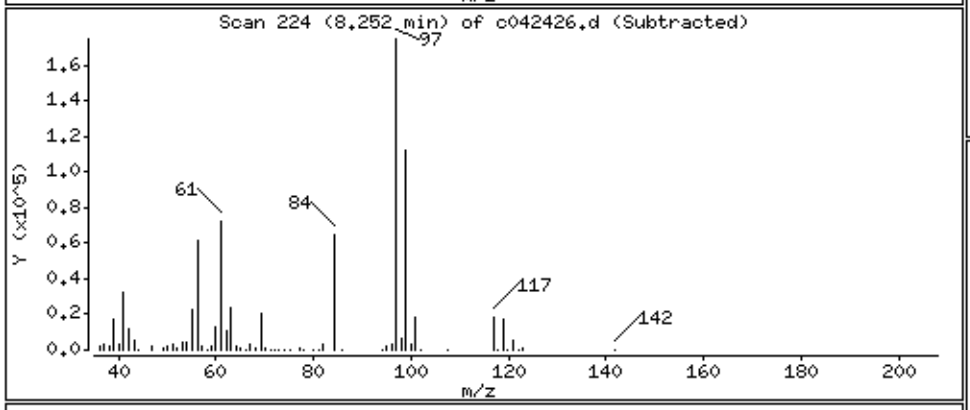
Column diameter: 0.53

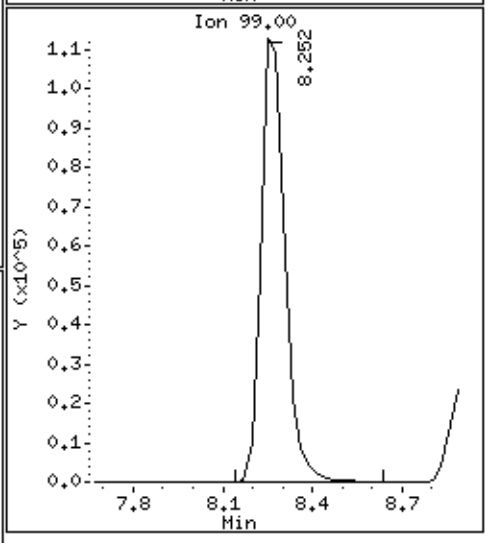
75 1,1,1-Trichloroethane

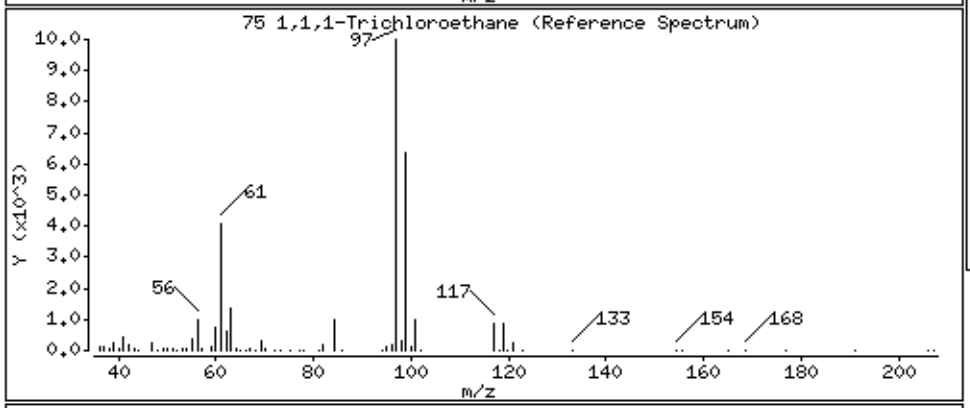
Concentration: 202.67 PPBV

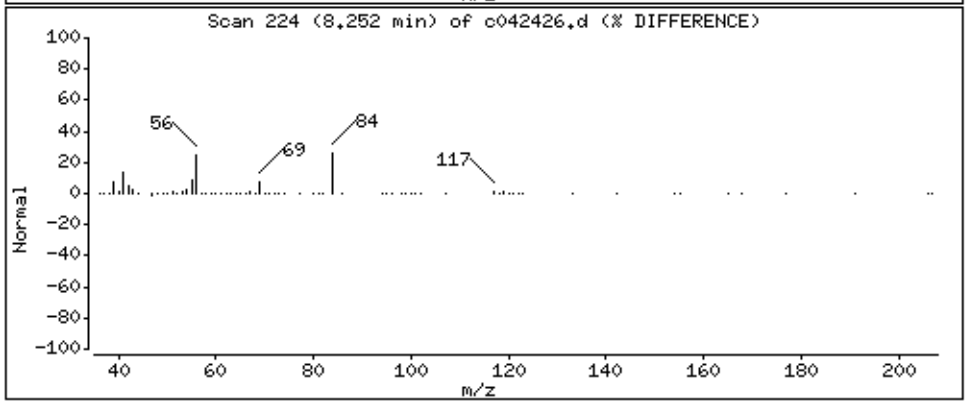












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

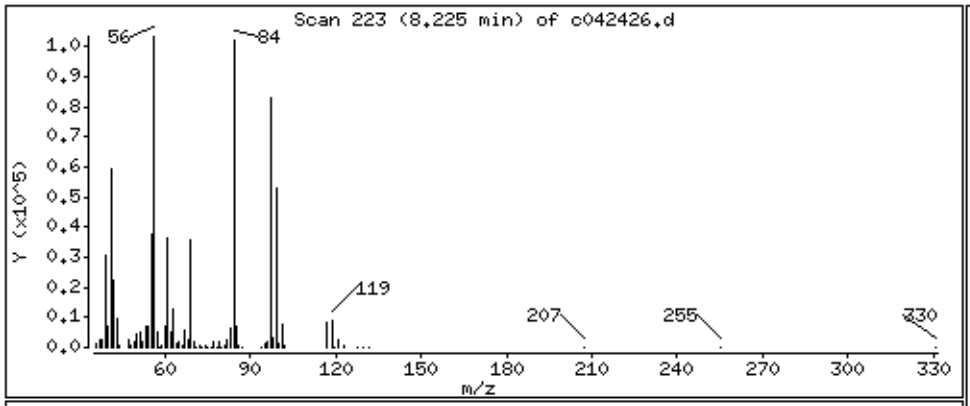
Operator: JP

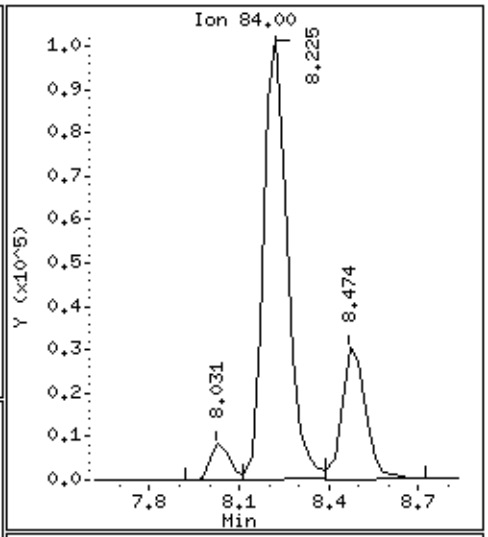
Column phase: RTx-624

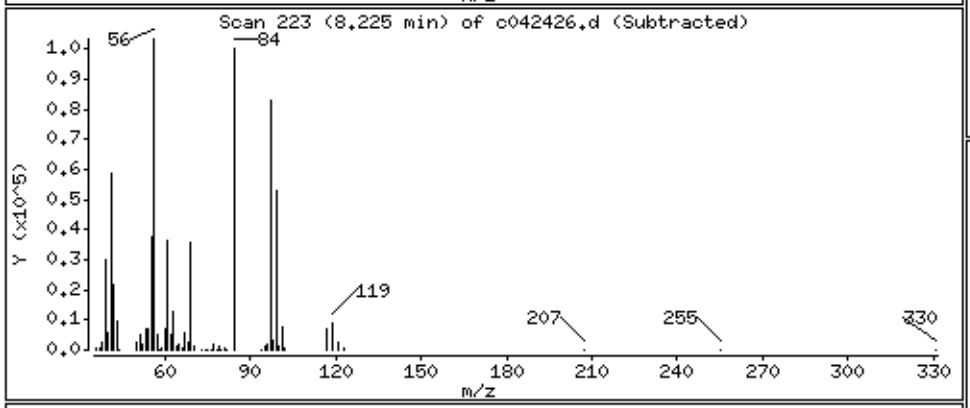
Column diameter: 0.53

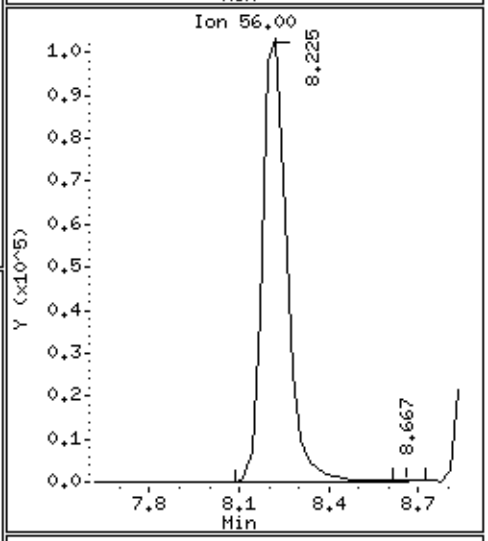
74 Cyclohexane

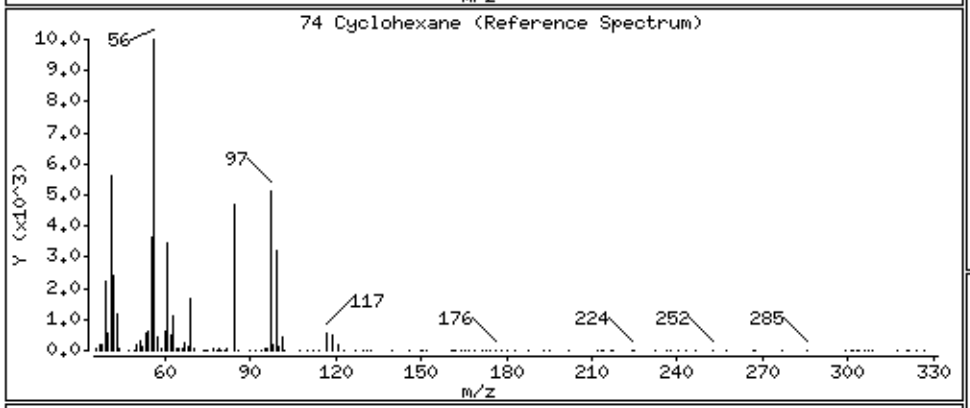
Concentration: 207.39 PPBV

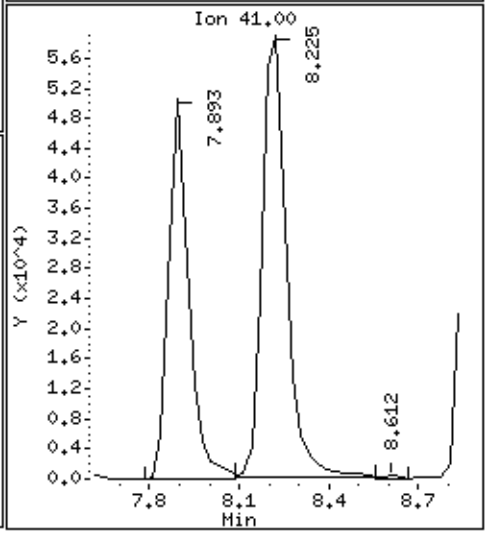


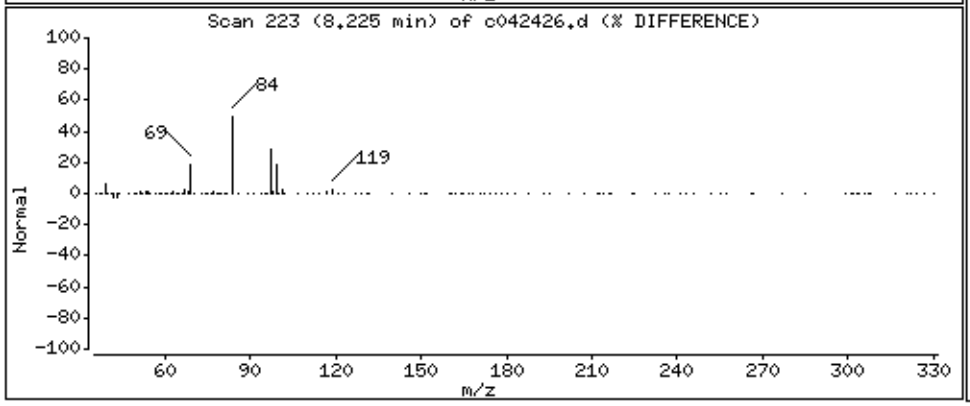












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

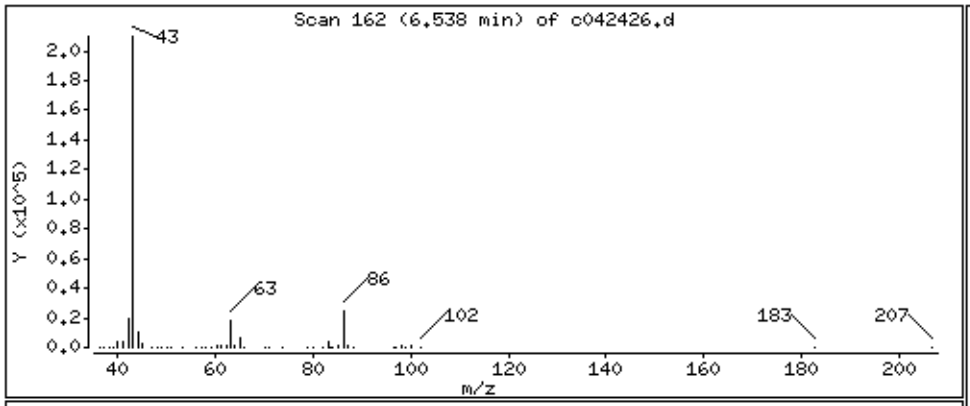
Operator: JP

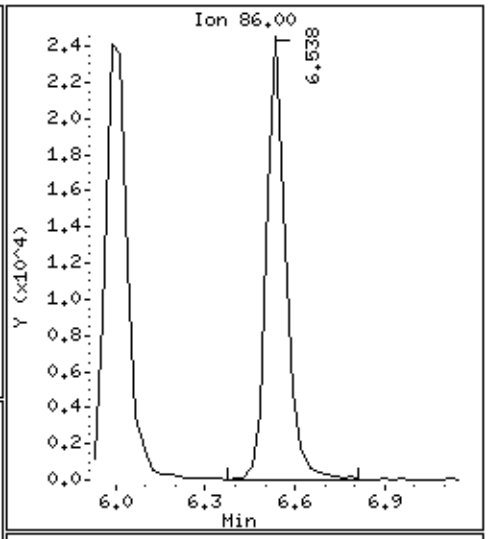
Column phase: RTx-624

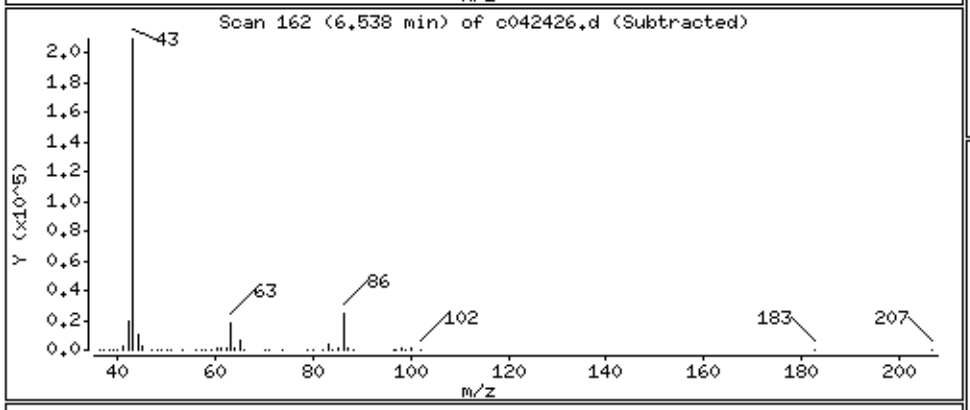
Column diameter: 0.53

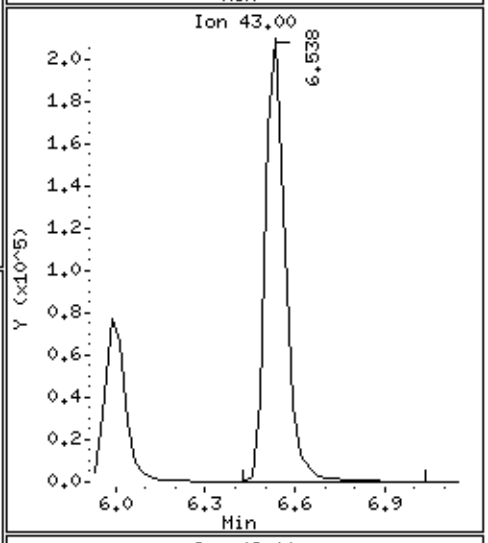
56 Vinyl Acetate

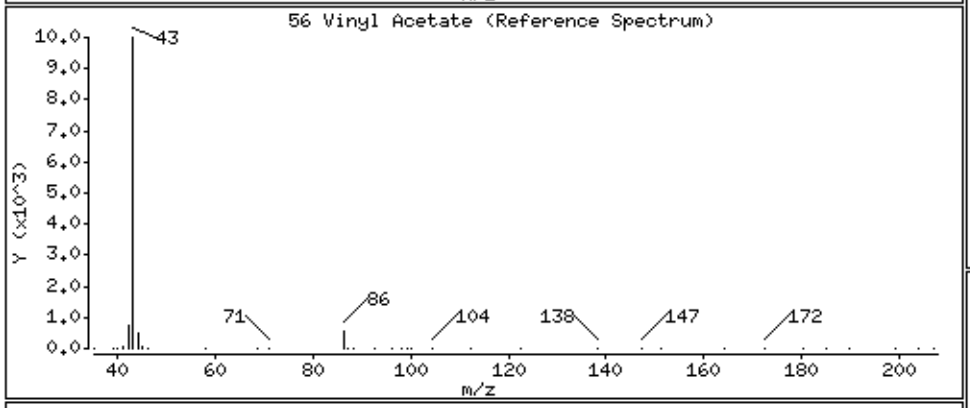
Concentration: 192.74 PPBV

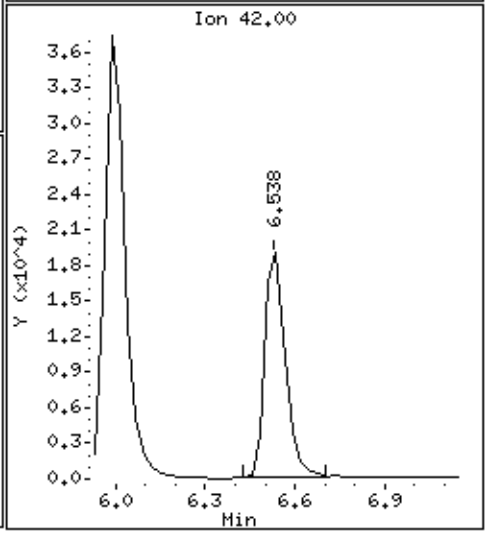


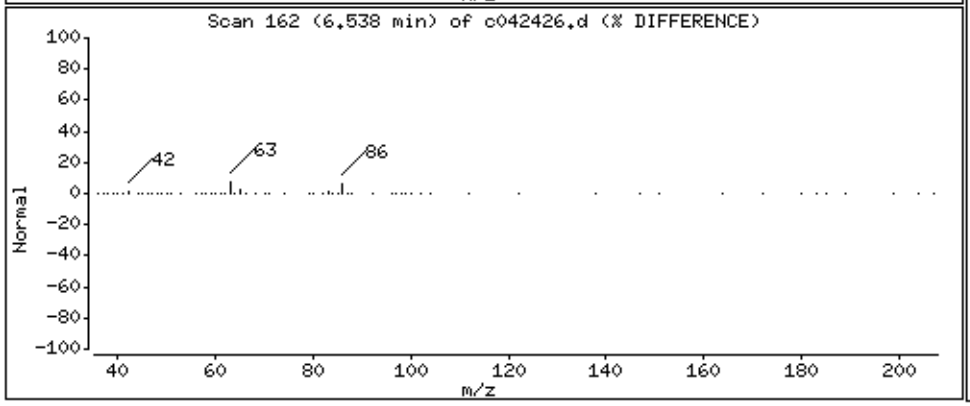












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

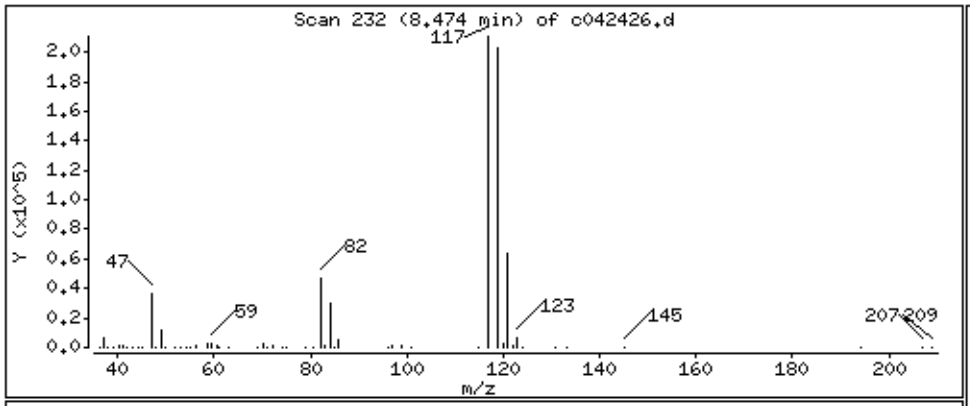
Operator: JP

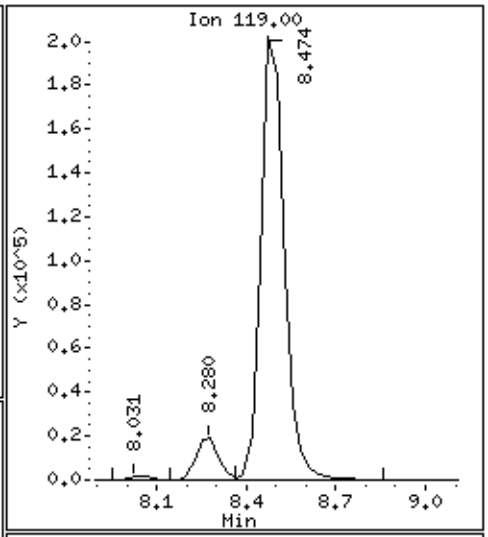
Column phase: RTx-624

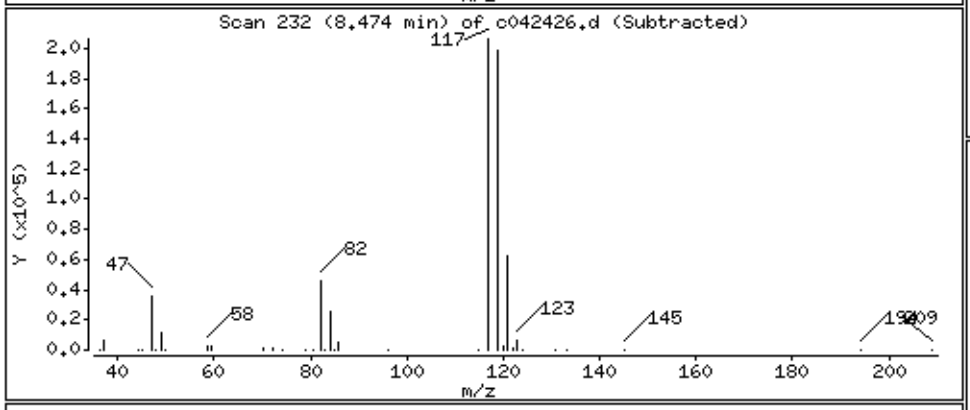
Column diameter: 0.53

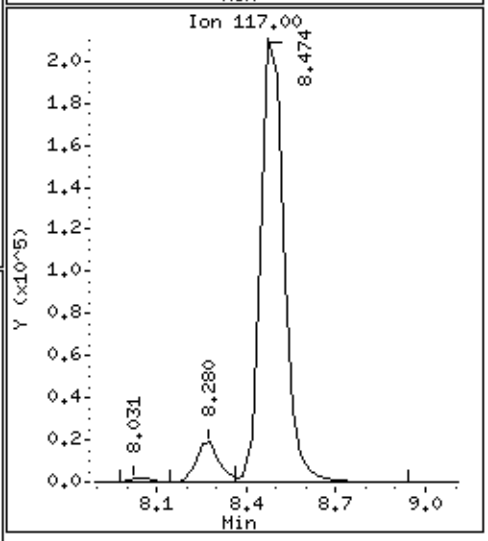
77 Carbon Tetrachloride

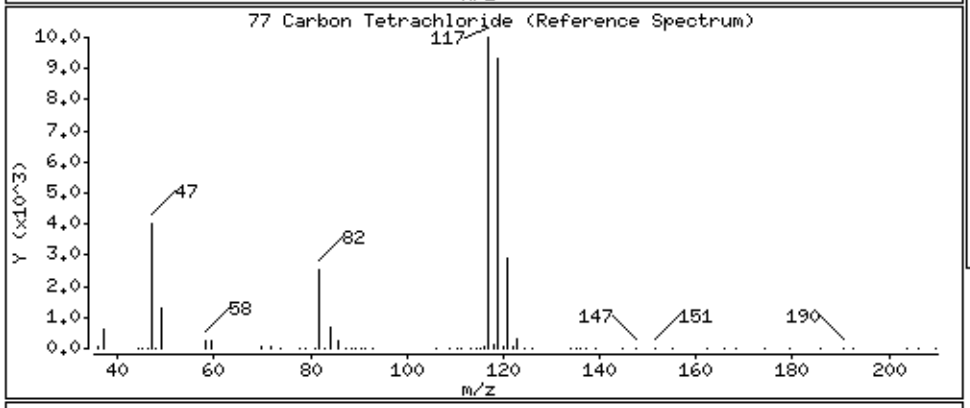
Concentration: 203.24 PPBV

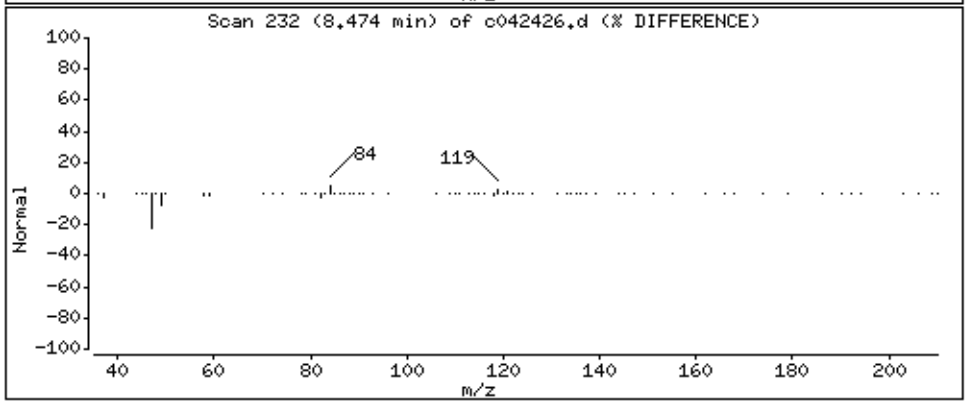












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

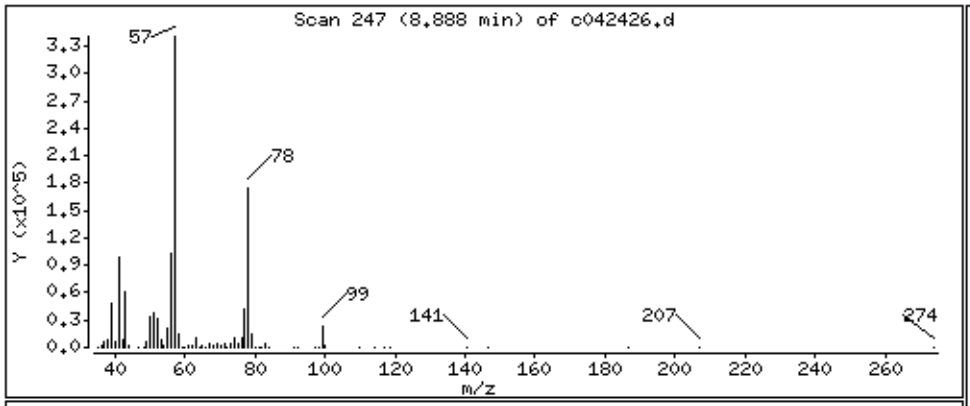
Operator: JP

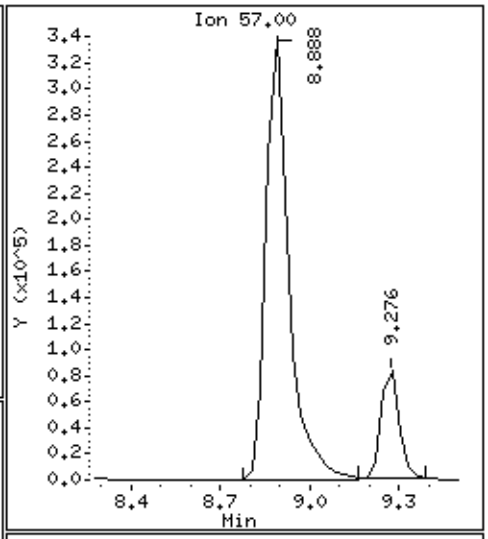
Column phase: RTx-624

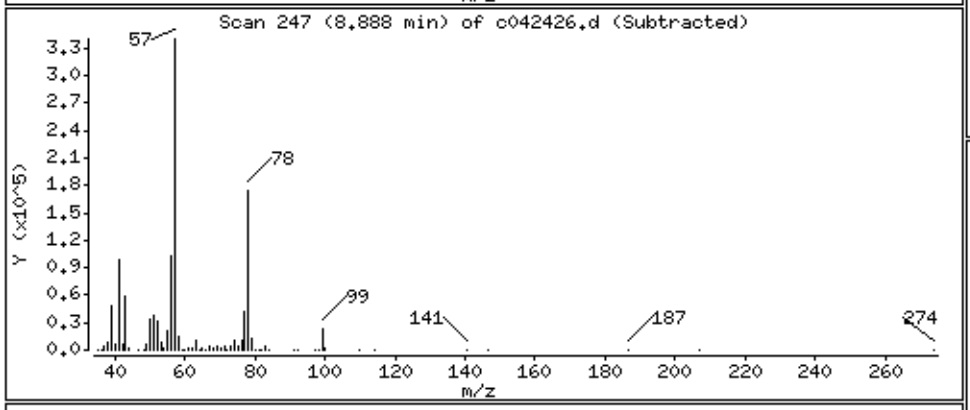
Column diameter: 0.53

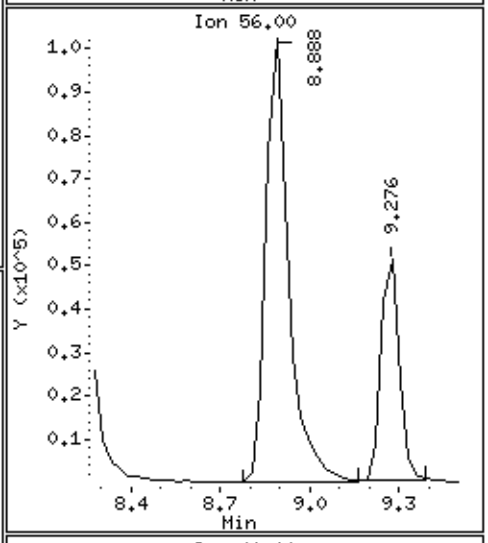
80 2,2,4-Trimethylpentane

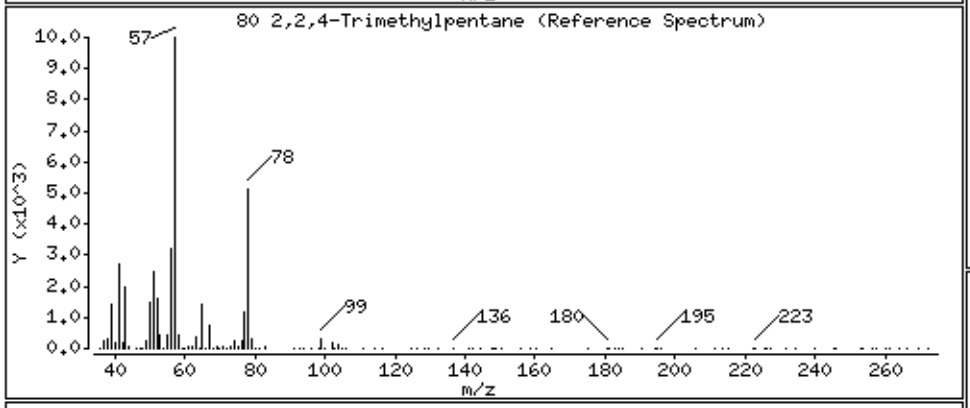
Concentration: 199.17 PPBV

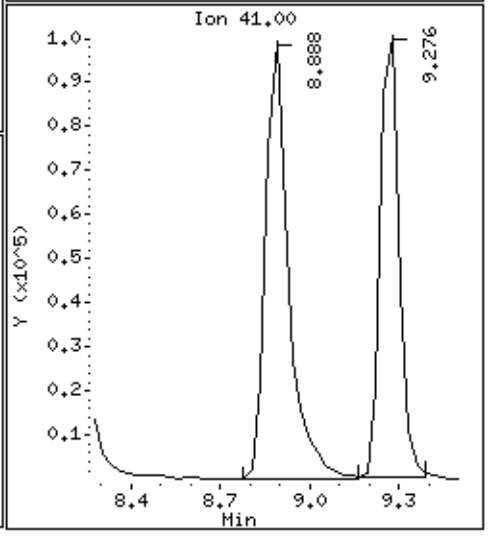


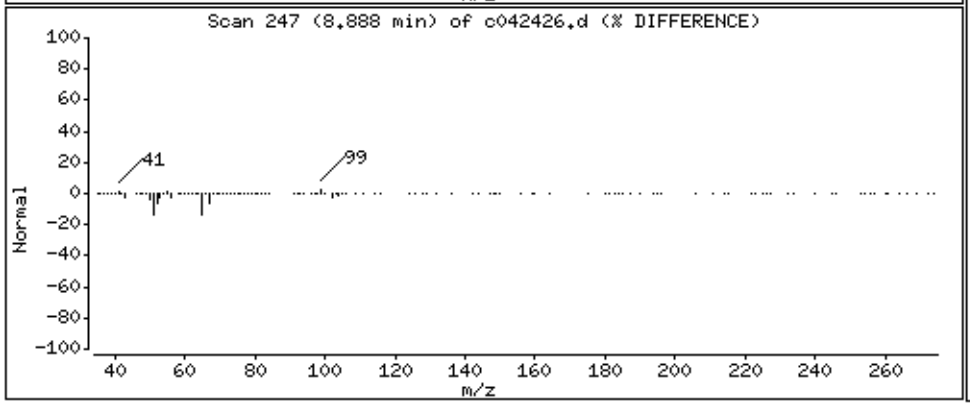












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

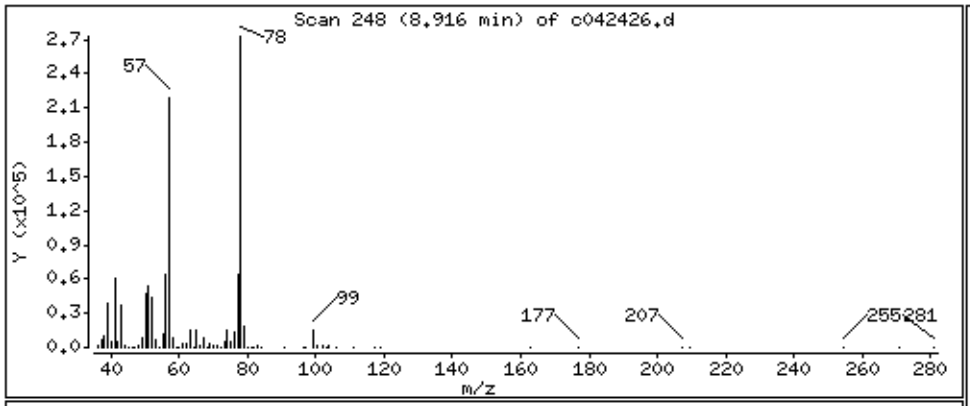
Operator: JP

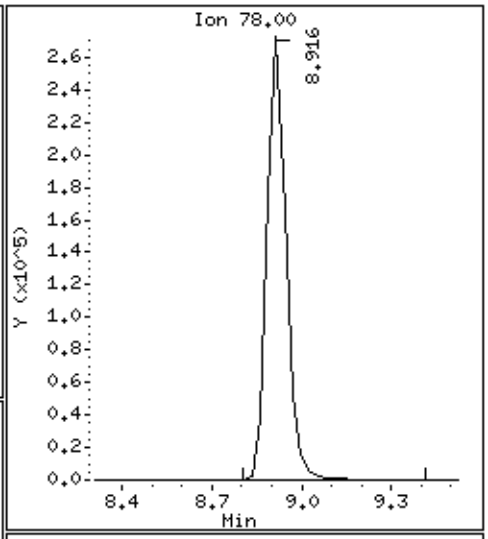
Column phase: RTx-624

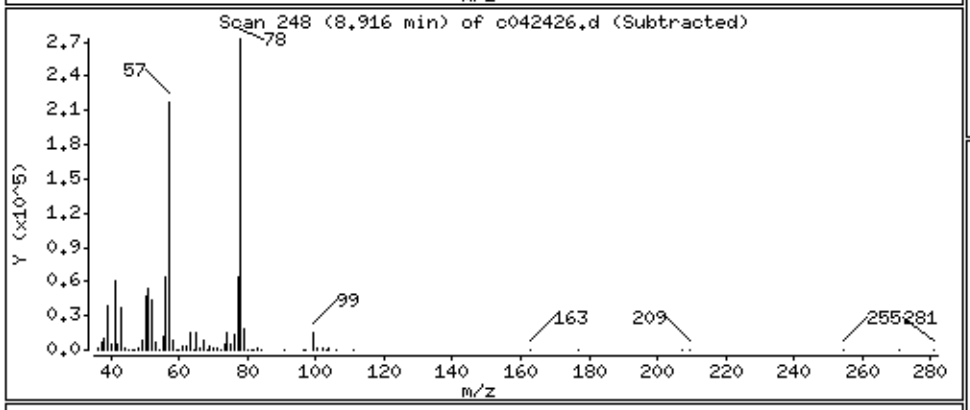
Column diameter: 0.53

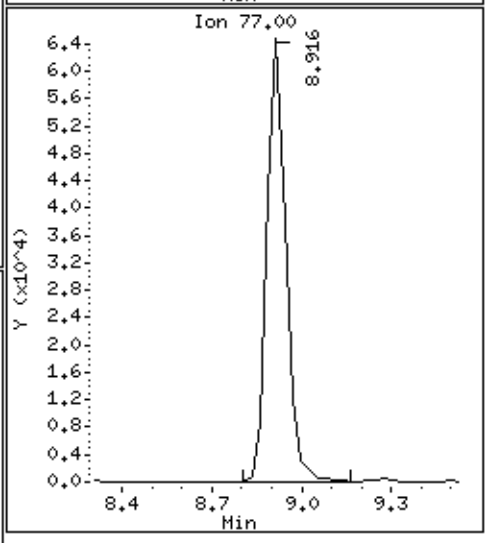
81 Benzene

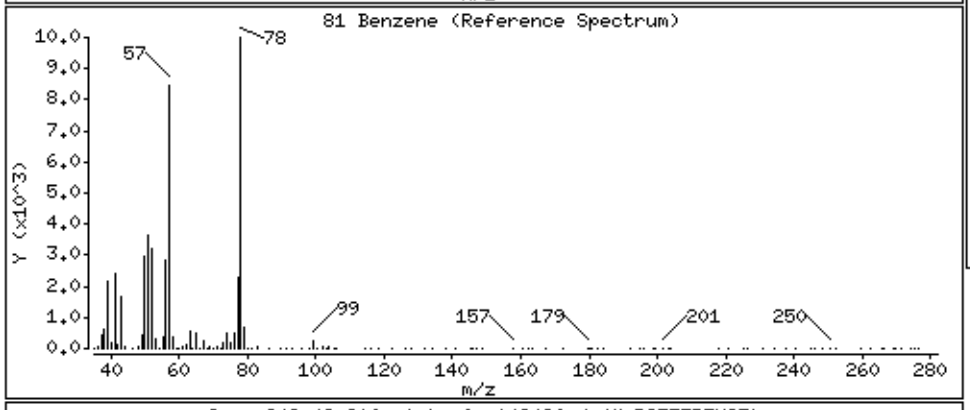
Concentration: 195.03 PPBV

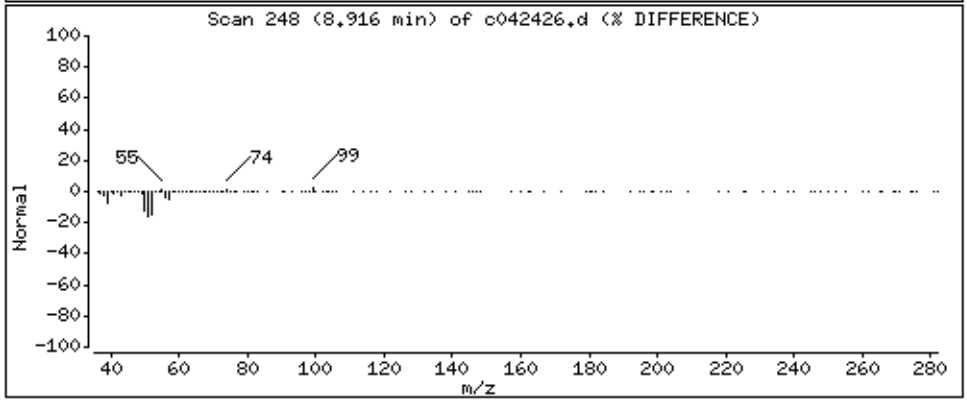












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

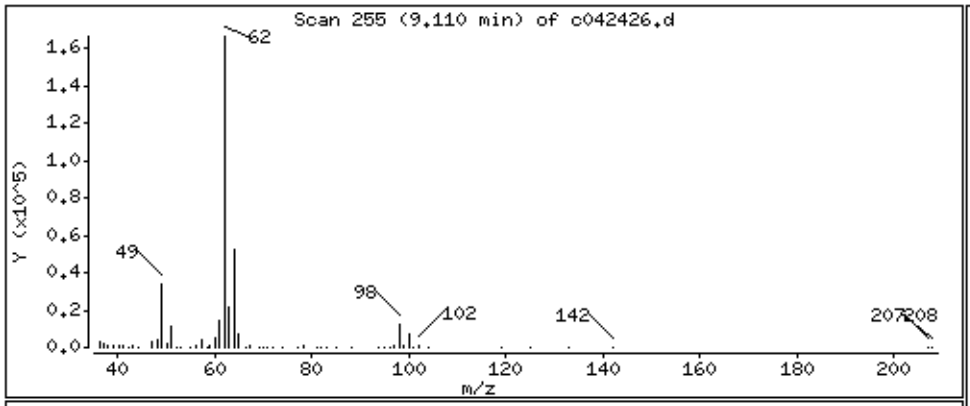
Operator: JP

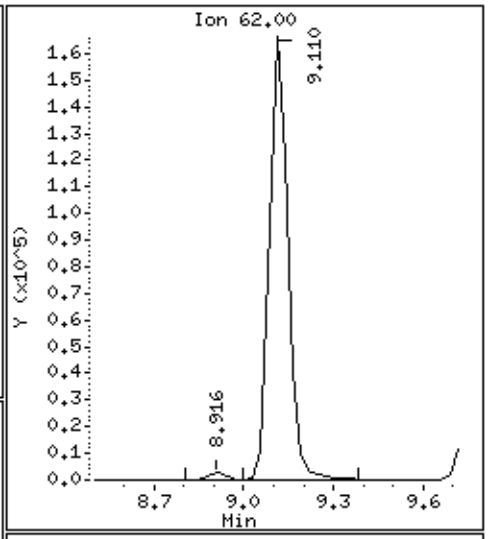
Column phase: RTx-624

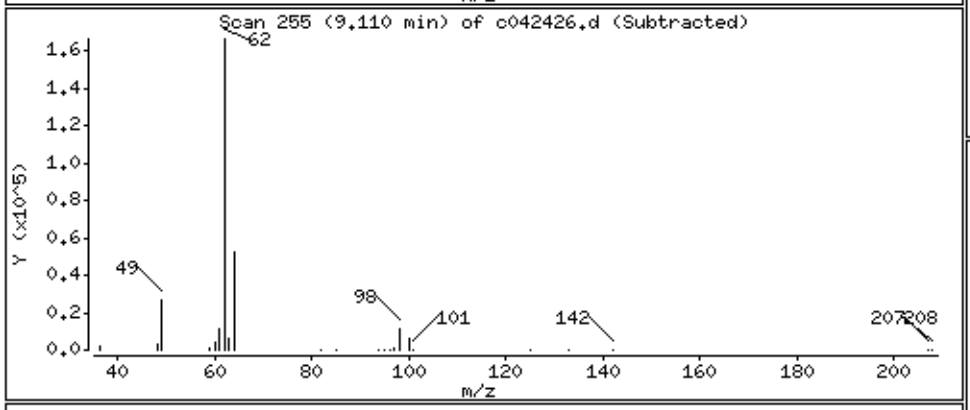
Column diameter: 0.53

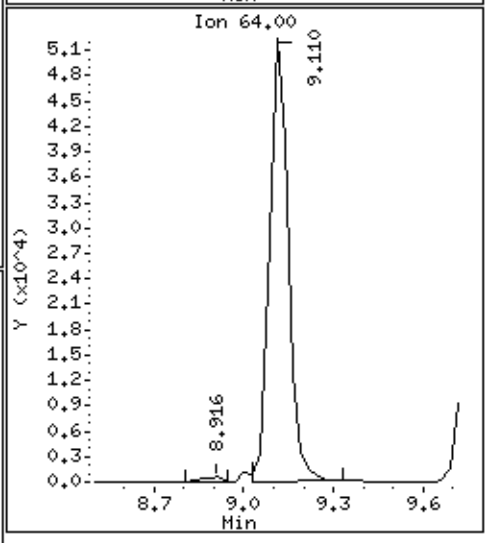
85 1,2-Dichloroethane

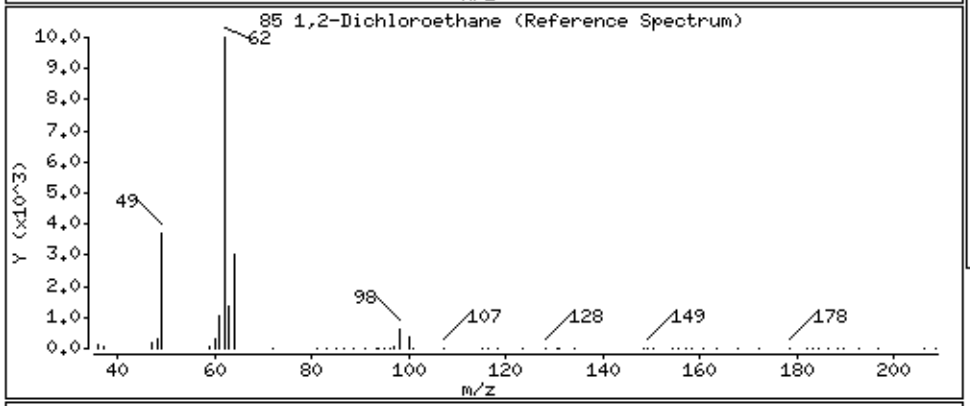
Concentration: 195.30 PPBV

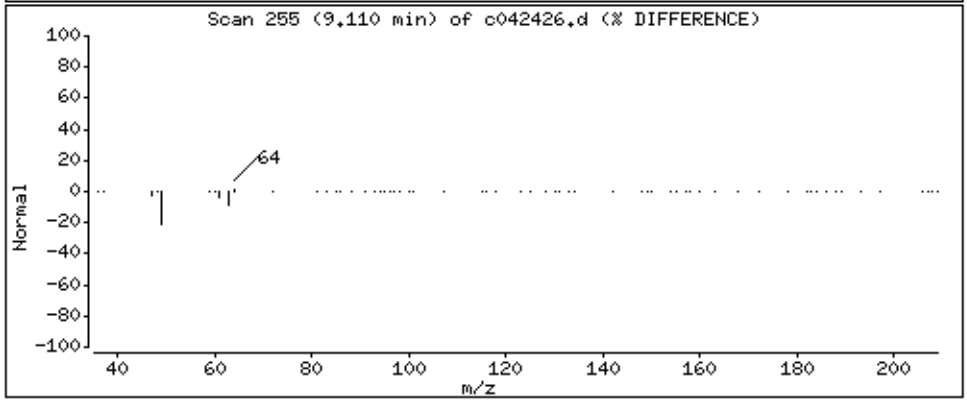












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

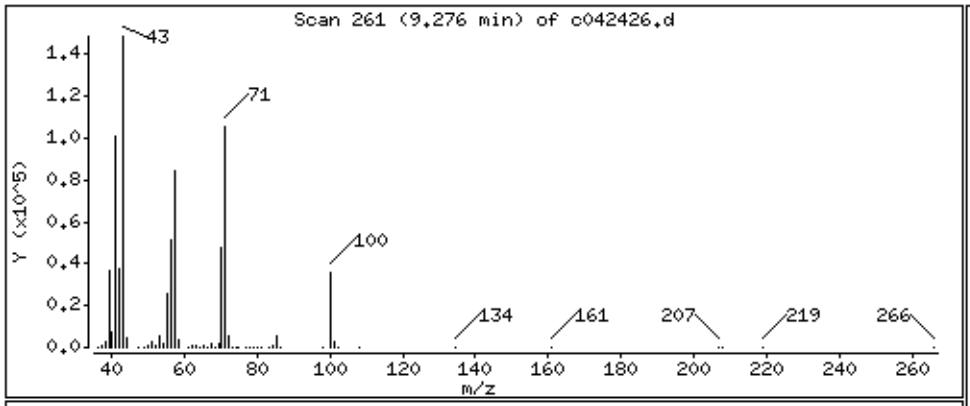
Operator: JP

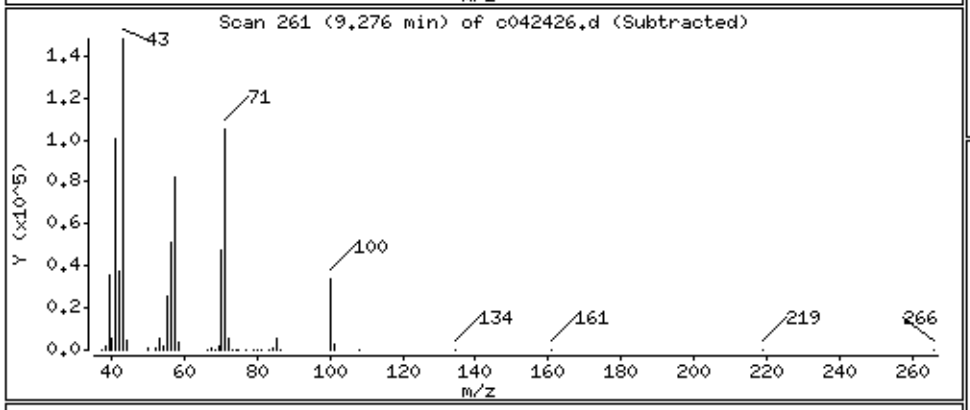
Column phase: RTx-624

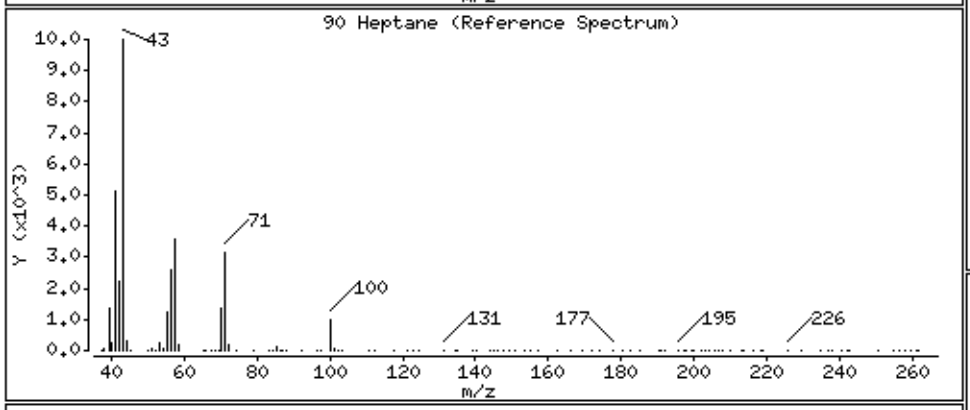
Column diameter: 0.53

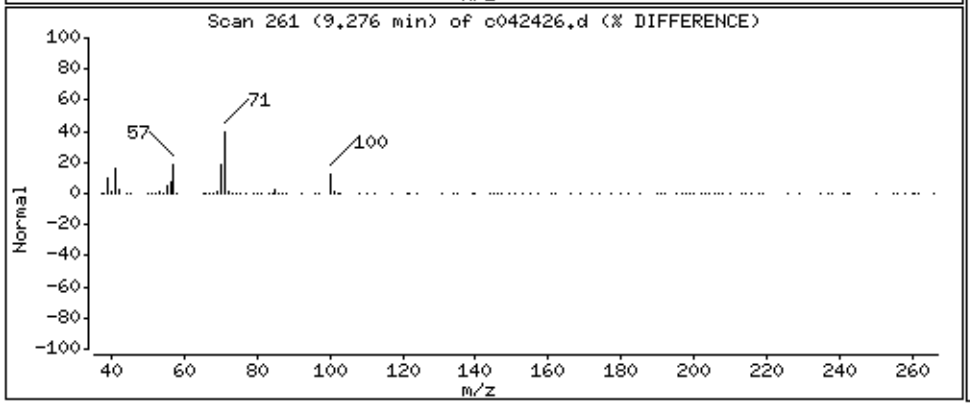
90 Heptane

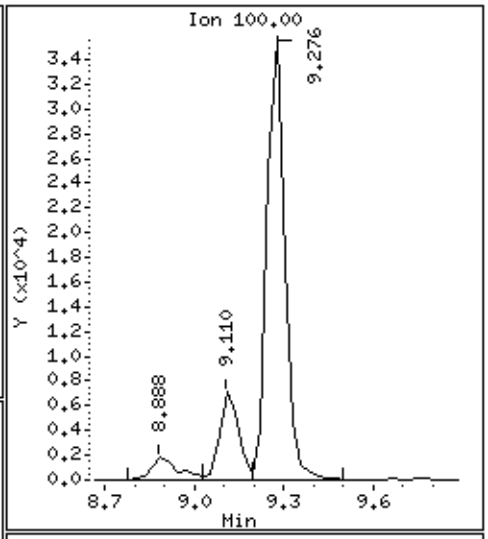
Concentration: 176.58 PPBV

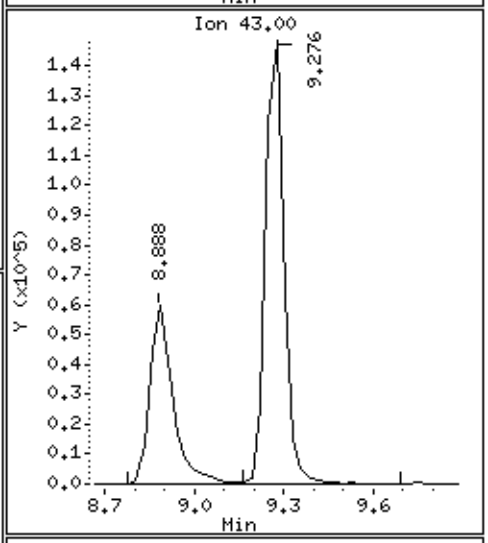


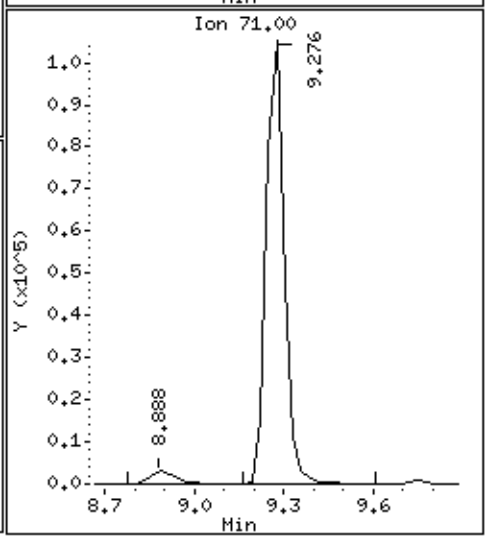












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

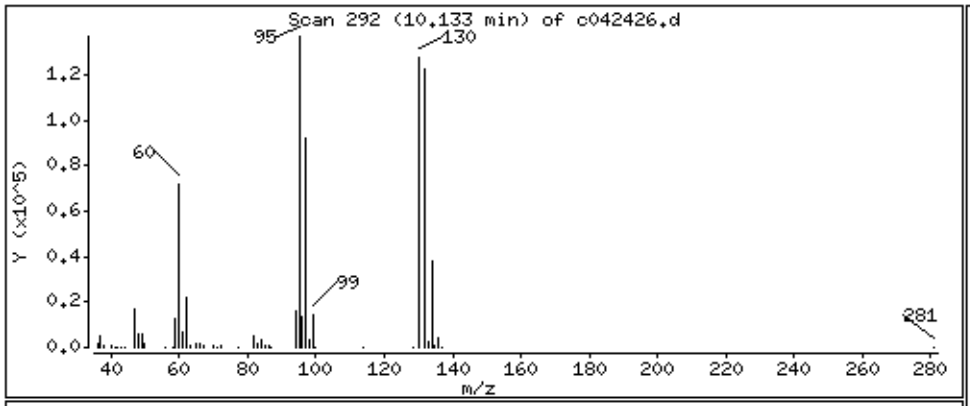
Operator: JP

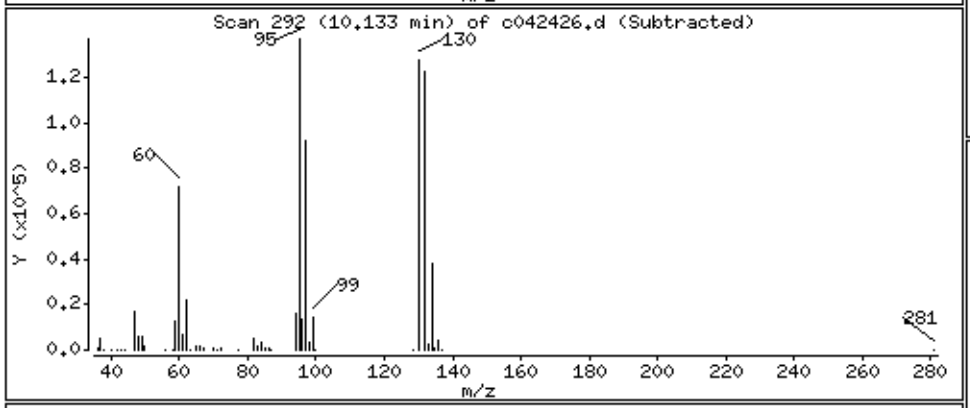
Column phase: RTx-624

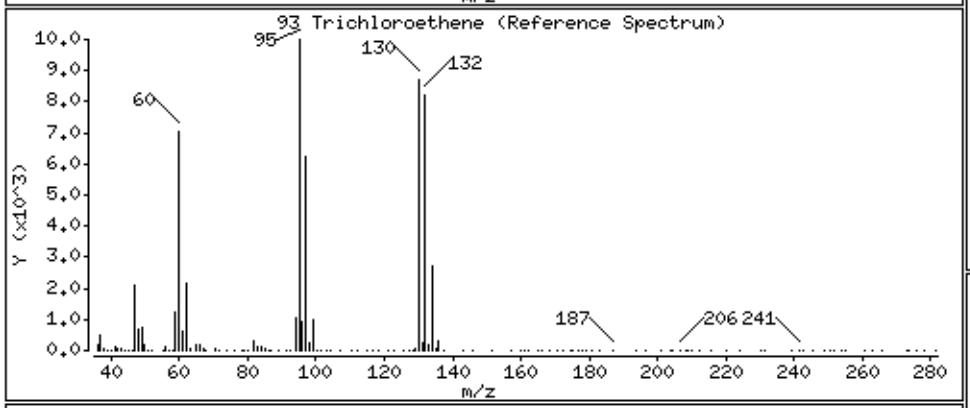
Column diameter: 0.53

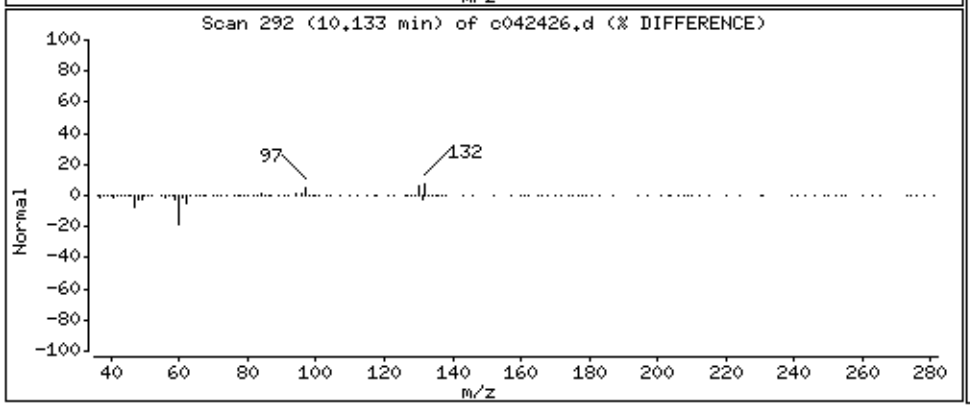
93 Trichloroethene

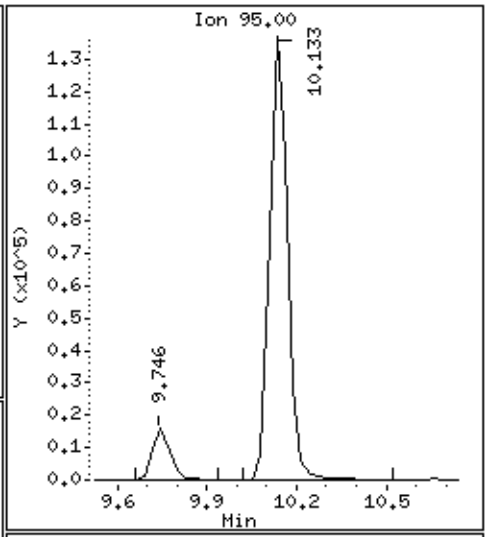
Concentration: 189.44 PPBV

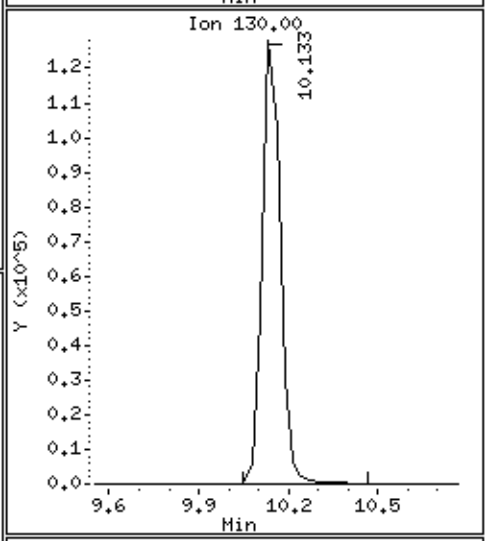


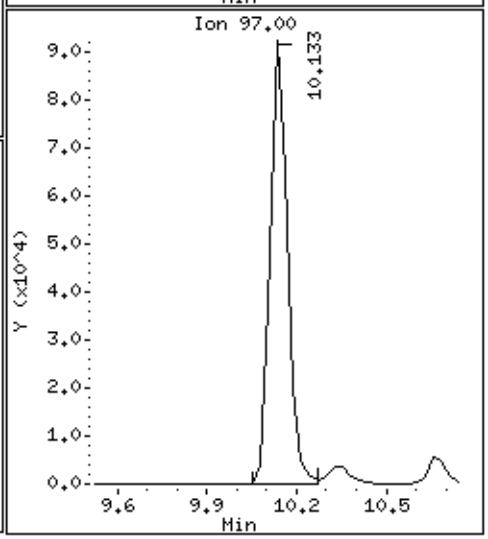












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

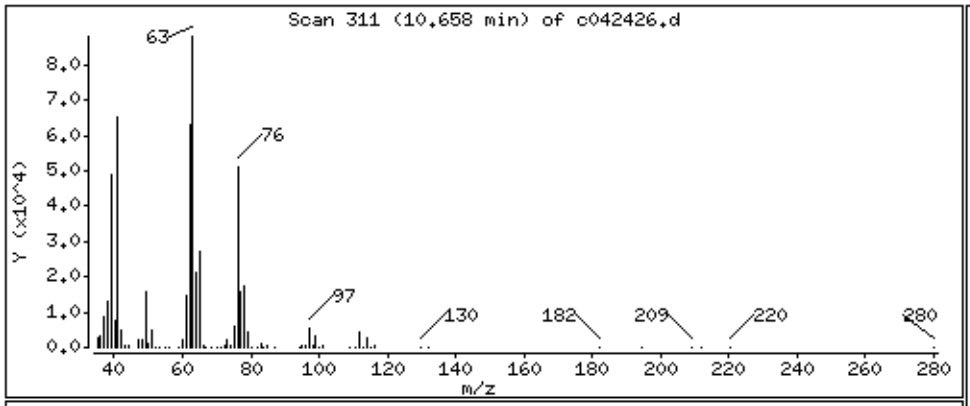
Operator: JP

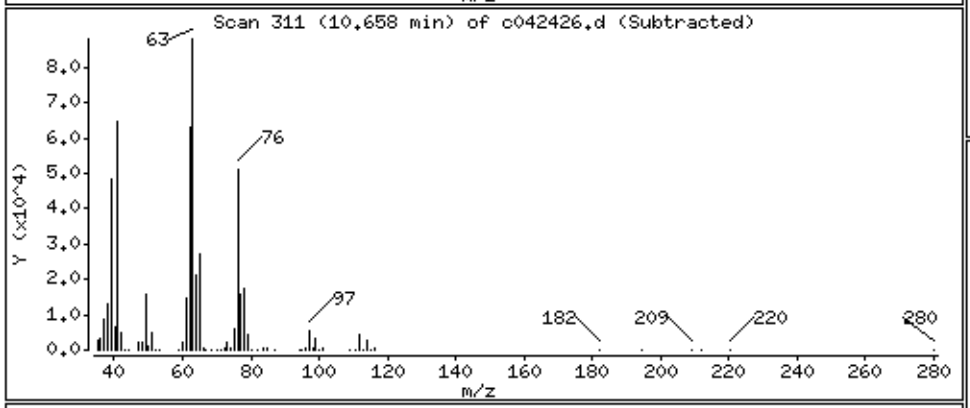
Column phase: RTx-624

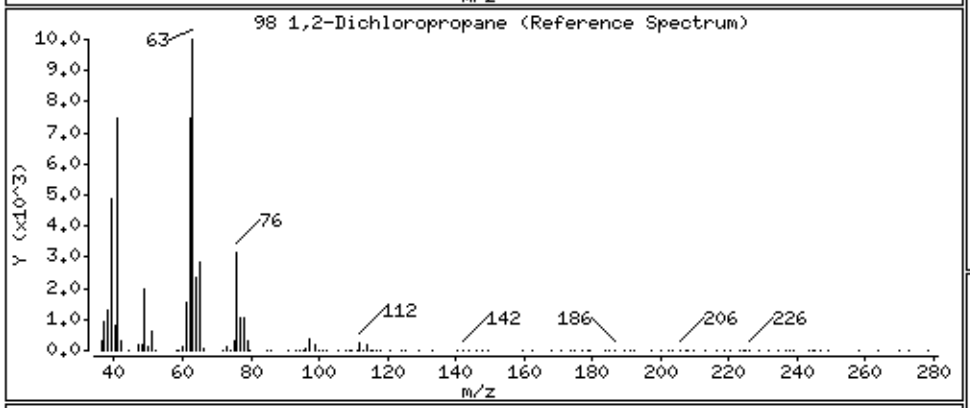
Column diameter: 0.53

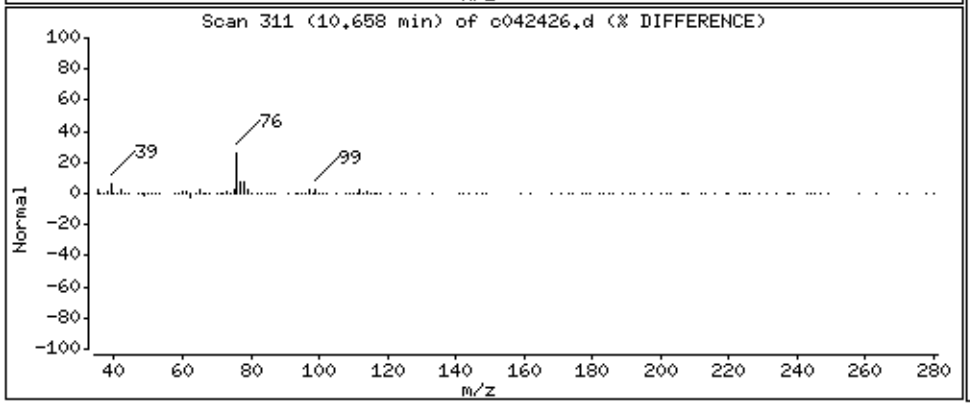
98 1,2-Dichloropropane

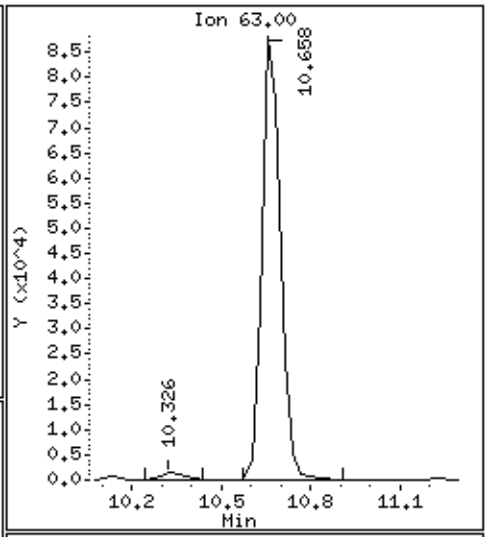
Concentration: 193.01 PPBV

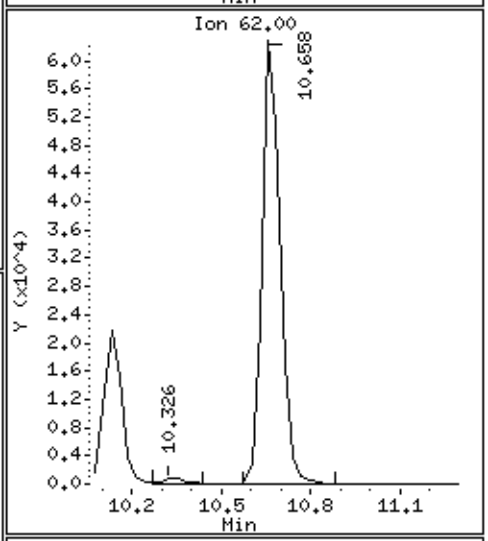


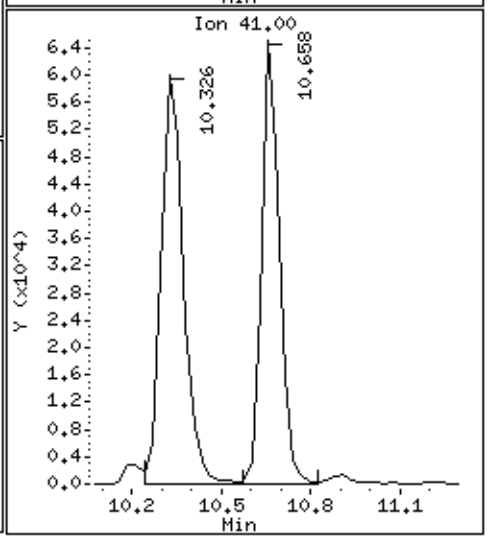












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

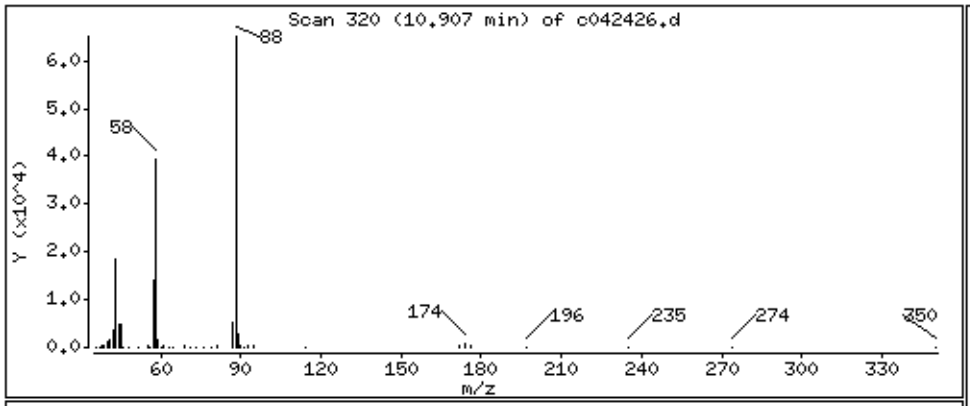
Operator: JP

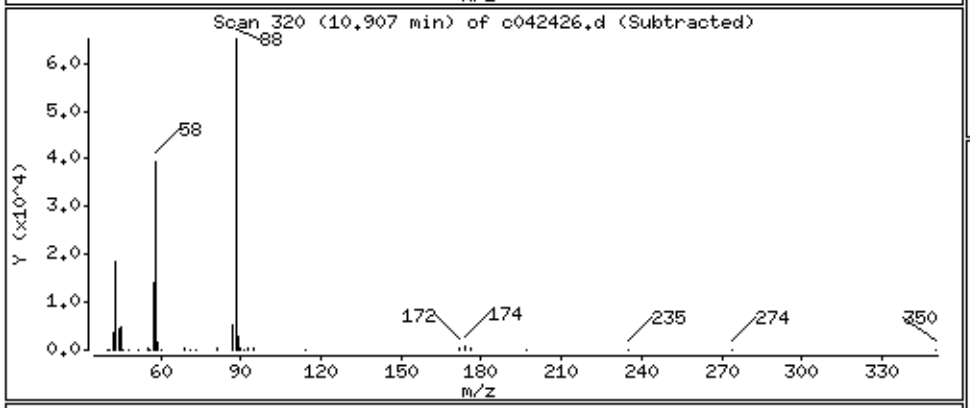
Column phase: RTx-624

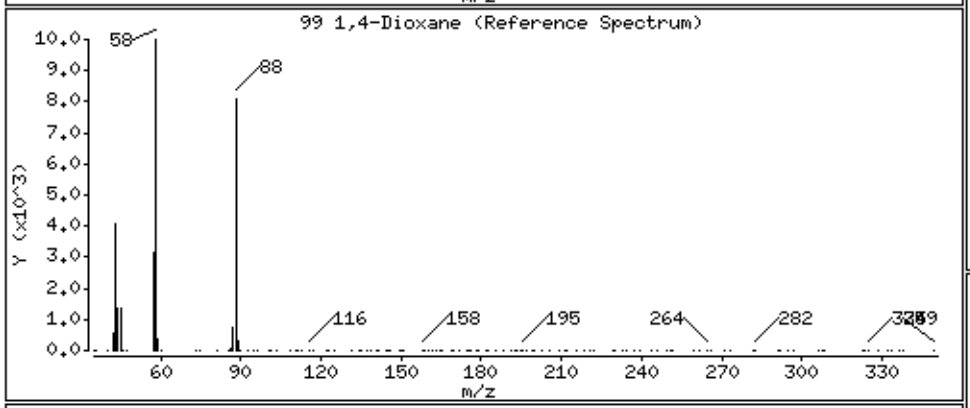
Column diameter: 0.53

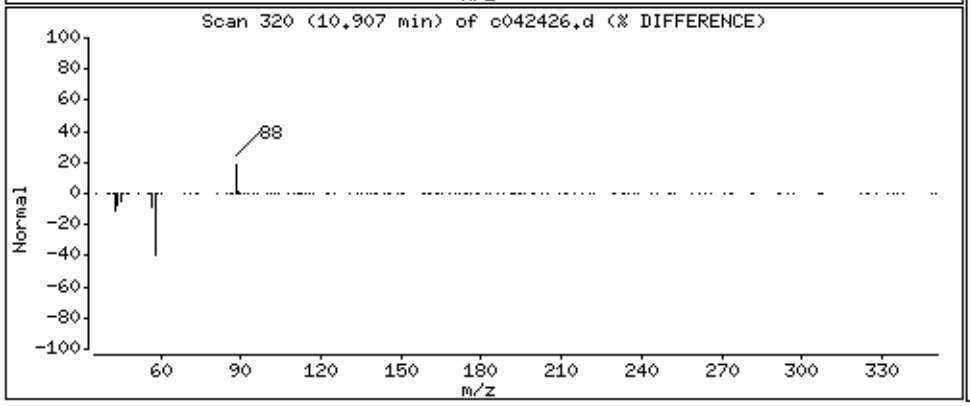
99 1,4-Dioxane

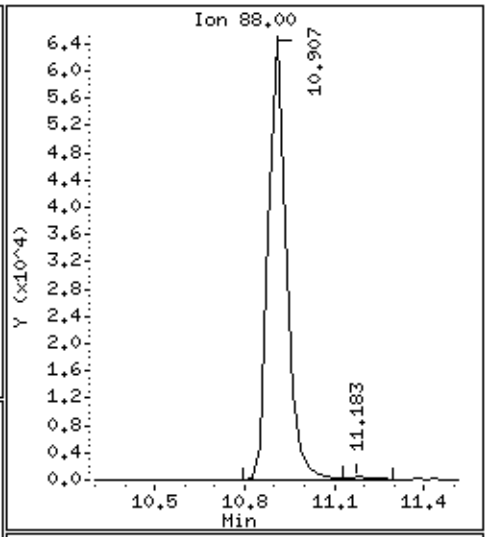
Concentration: 192.70 PPBV

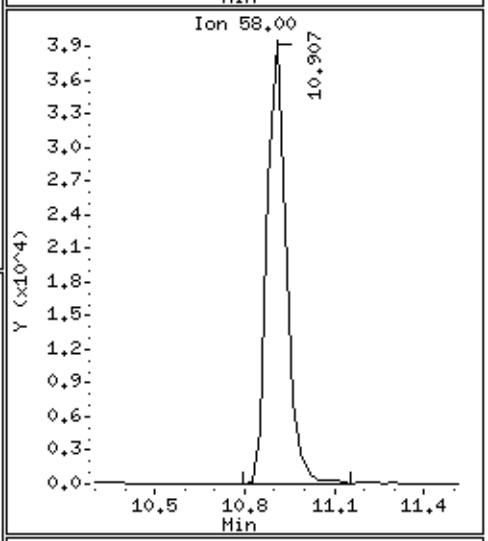


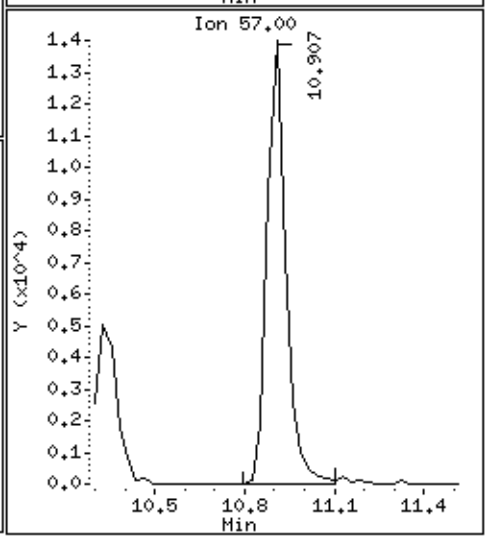












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

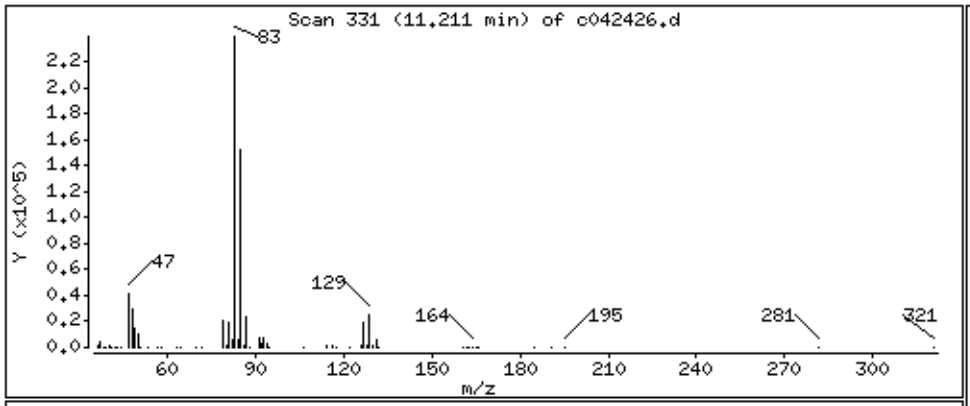
Operator: JP

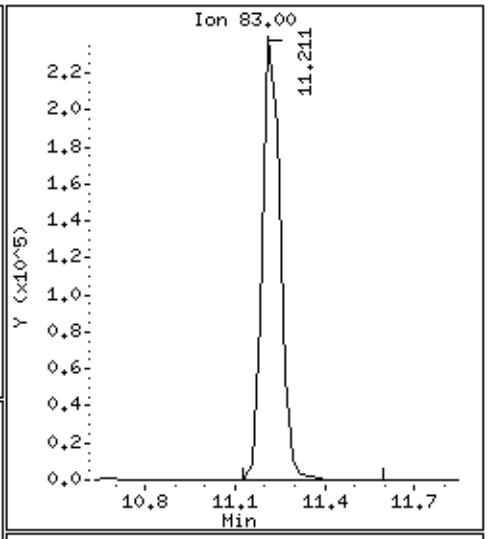
Column phase: RTx-624

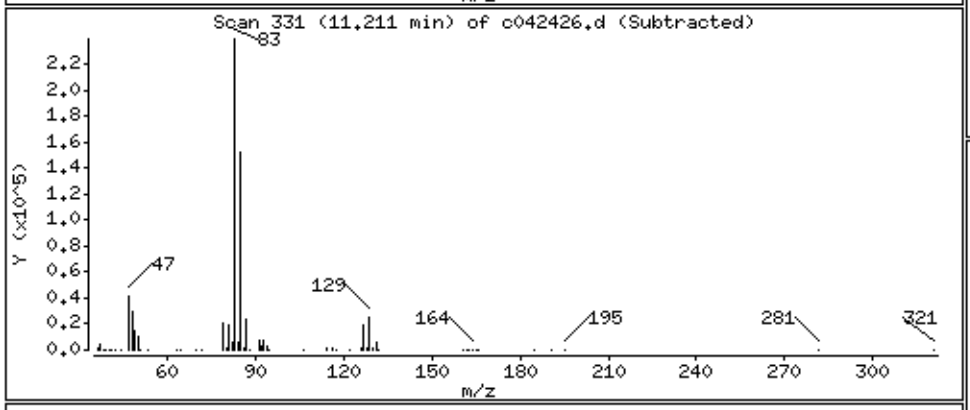
Column diameter: 0.53

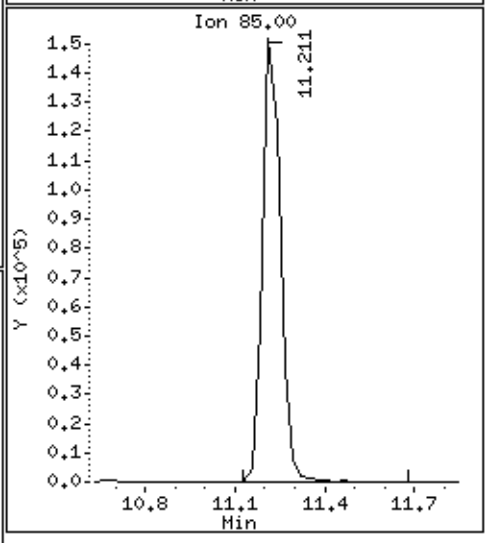
100 Bromodichloromethane

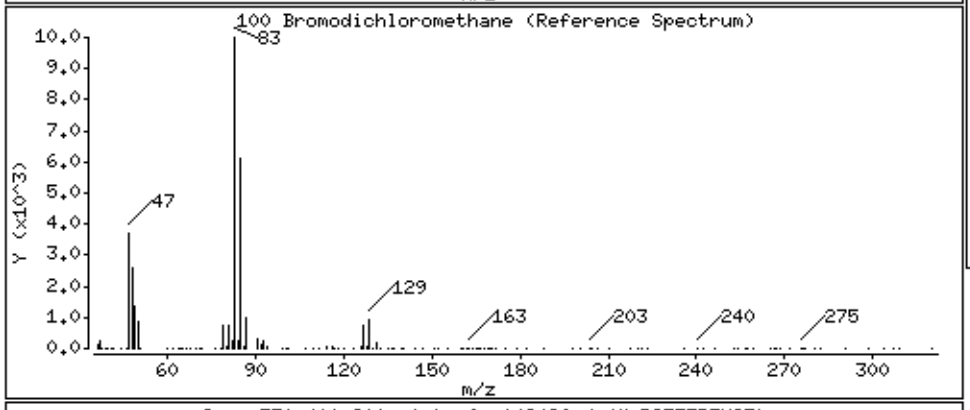
Concentration: 191.52 PPBV

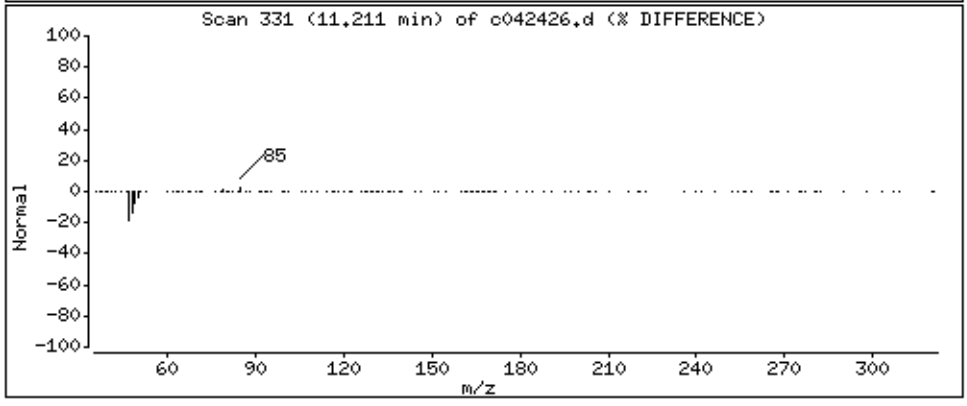












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

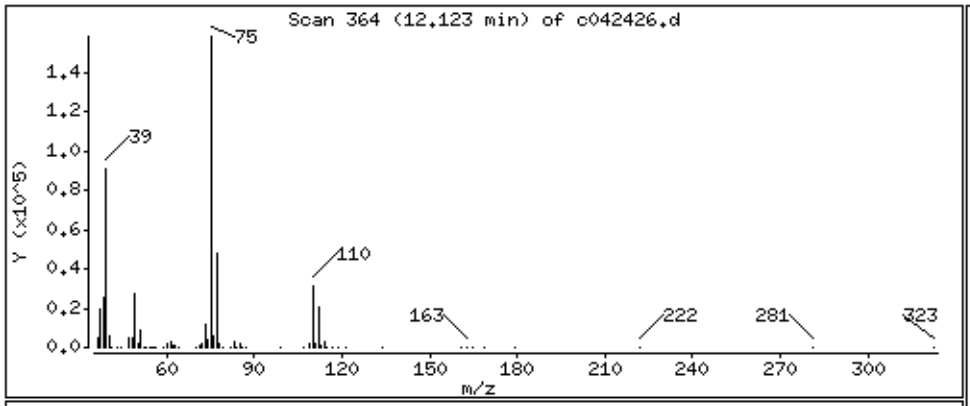
Operator: JP

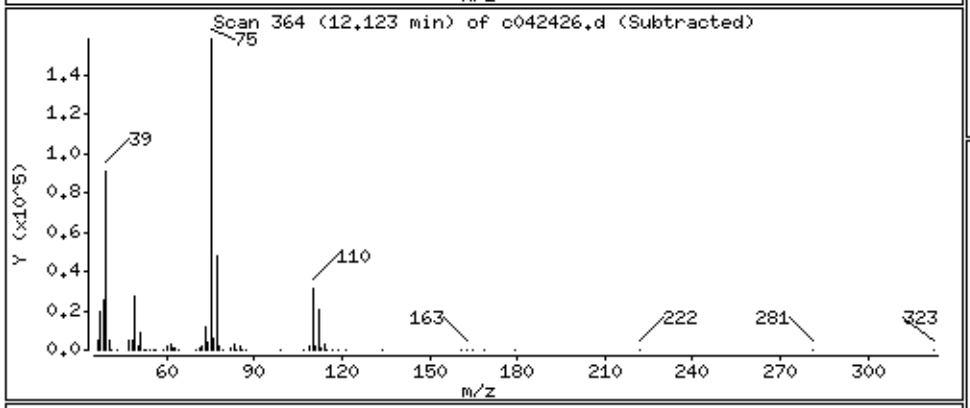
Column phase: RTx-624

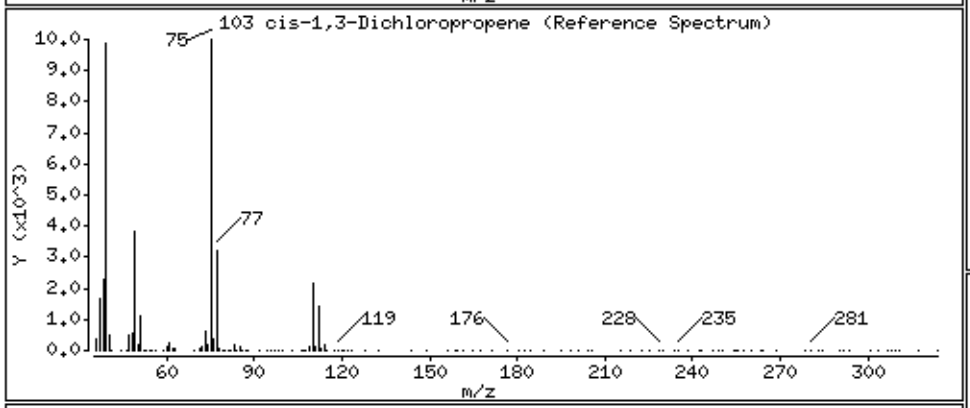
Column diameter: 0.53

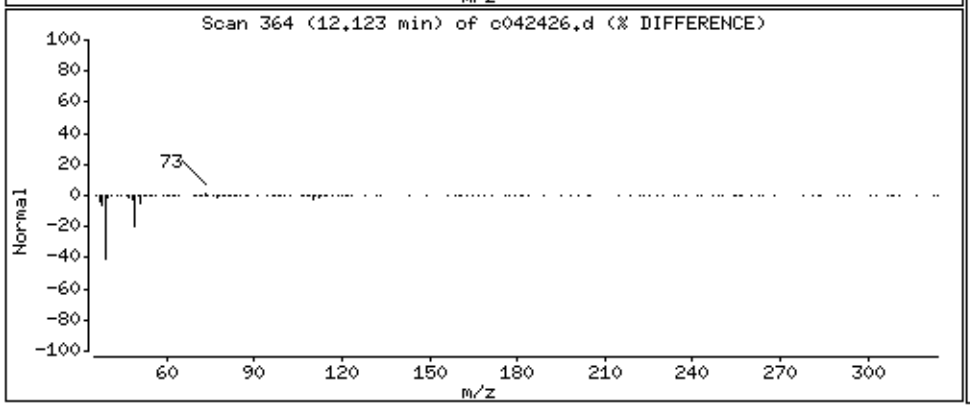
103 cis-1,3-Dichloropropene

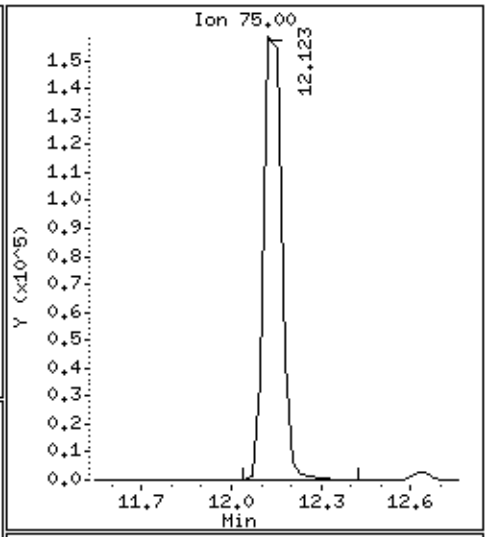
Concentration: 190.43 PPBV

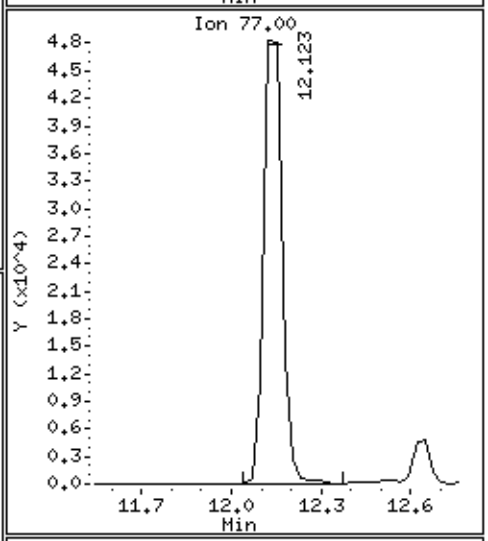


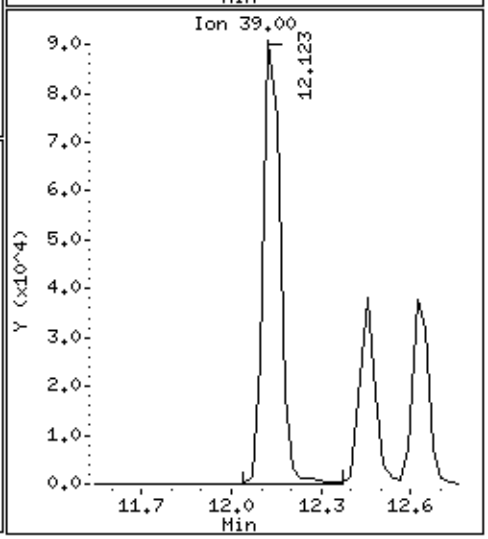












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

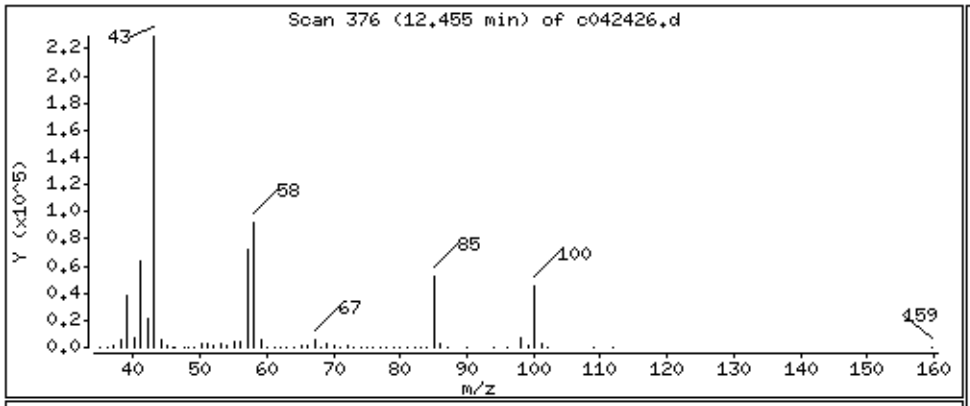
Operator: JP

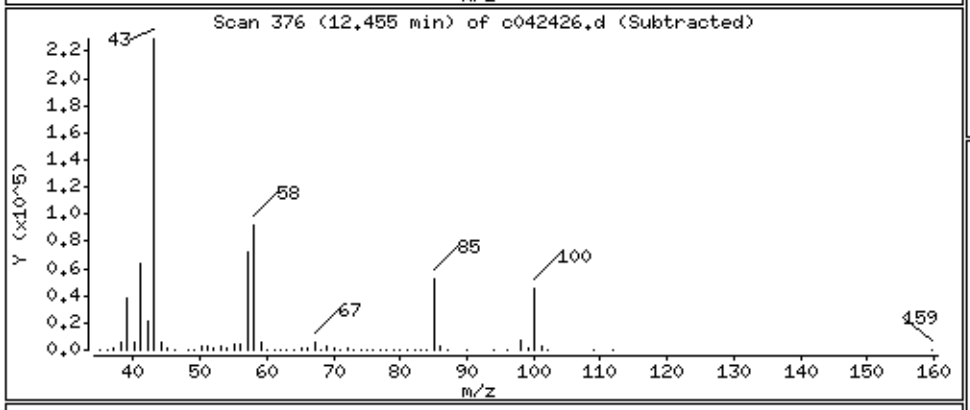
Column phase: RTx-624

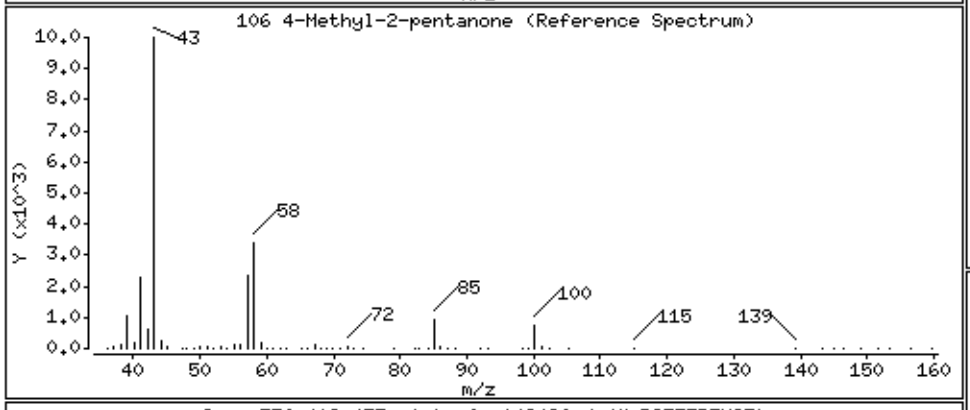
Column diameter: 0.53

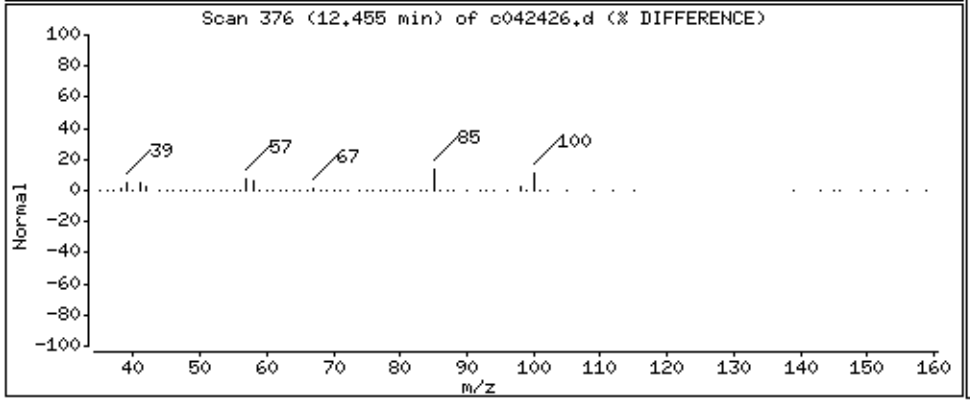
106 4-Methyl-2-pentanone

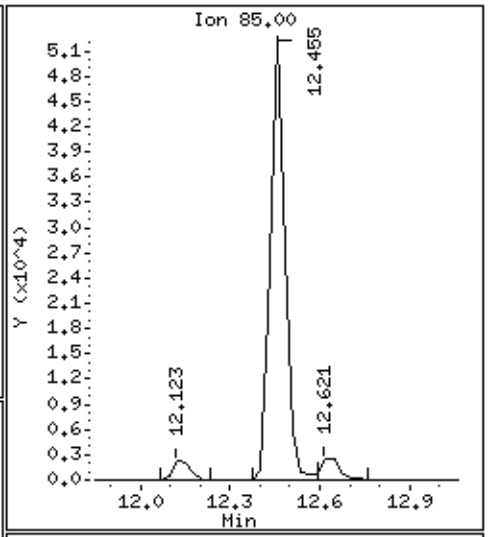
Concentration: 193.68 PPBV

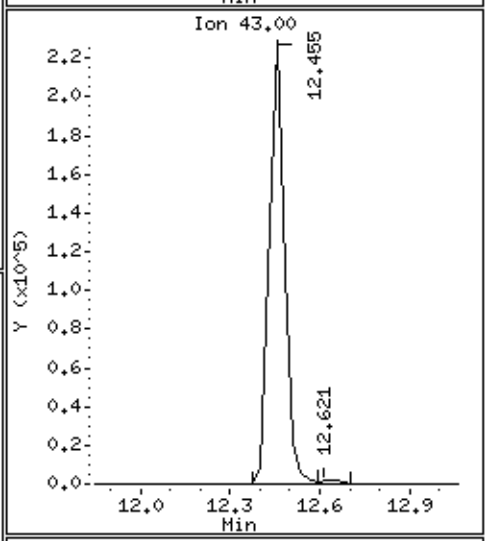


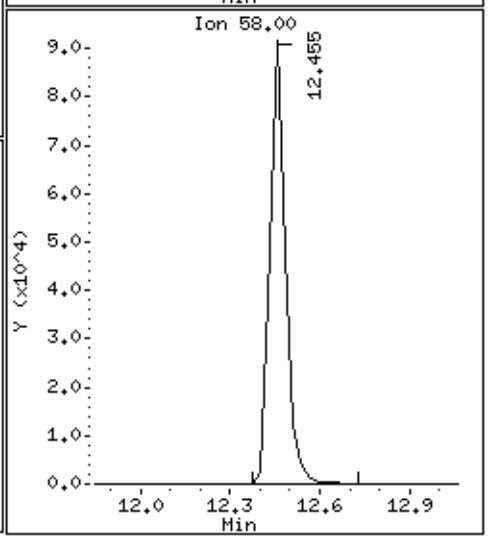












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

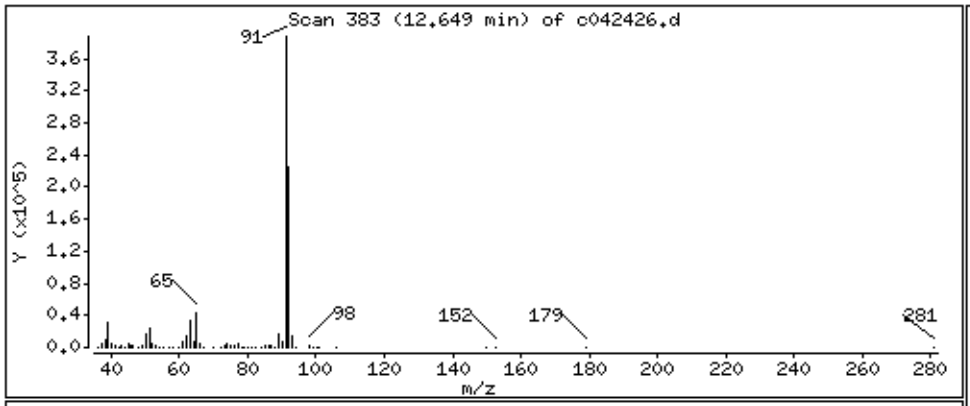
Operator: JP

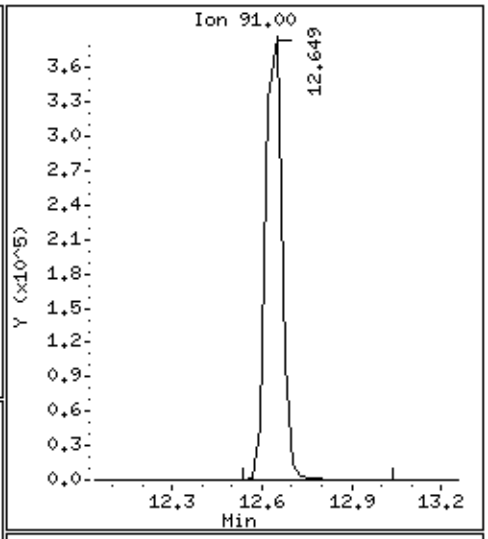
Column phase: RTx-624

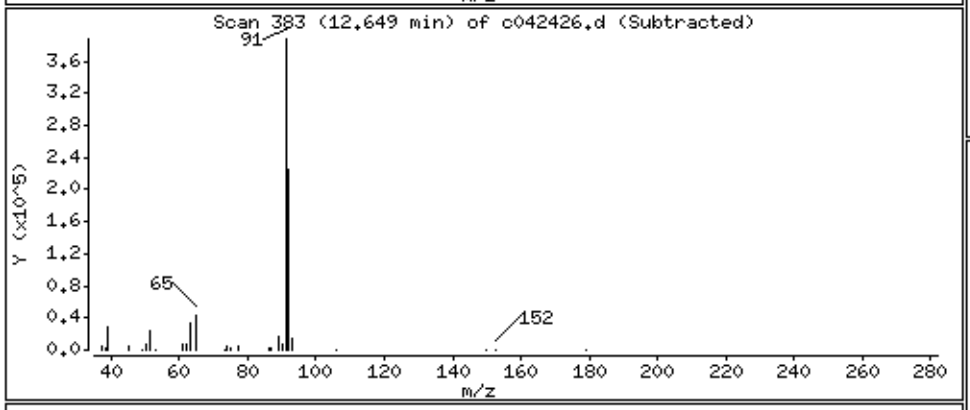
Column diameter: 0.53

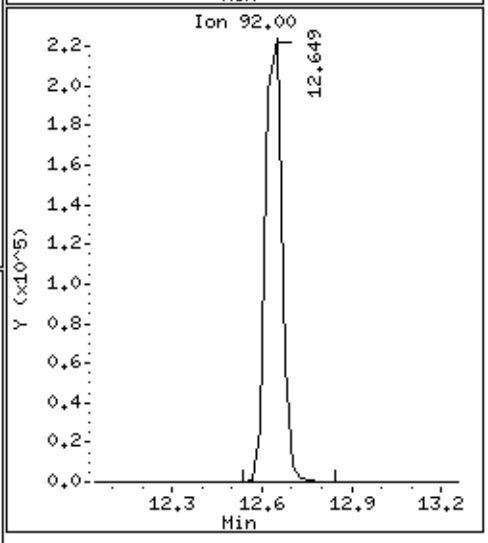
108 Toluene

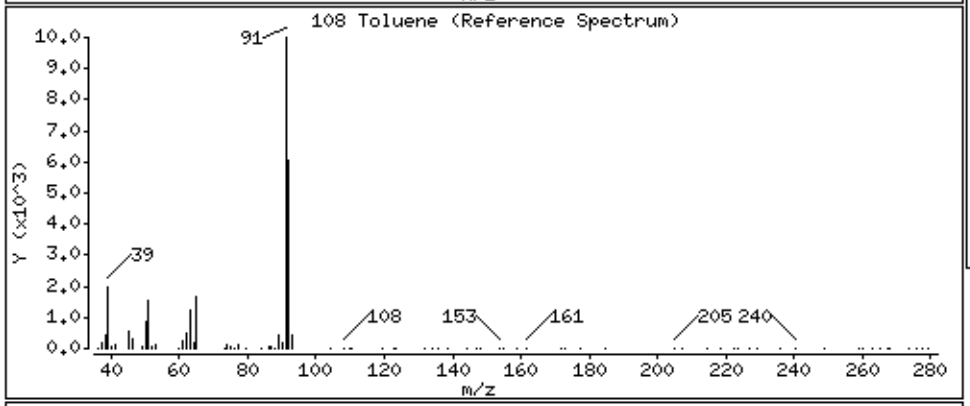
Concentration: 192.56 PPBV

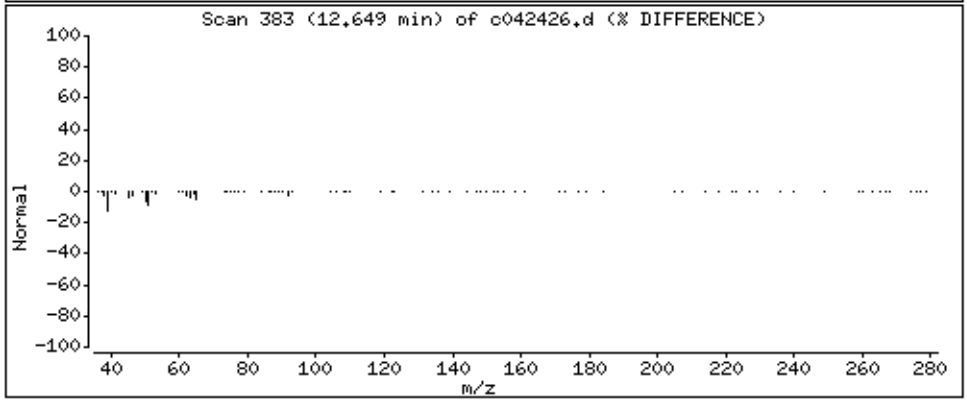












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

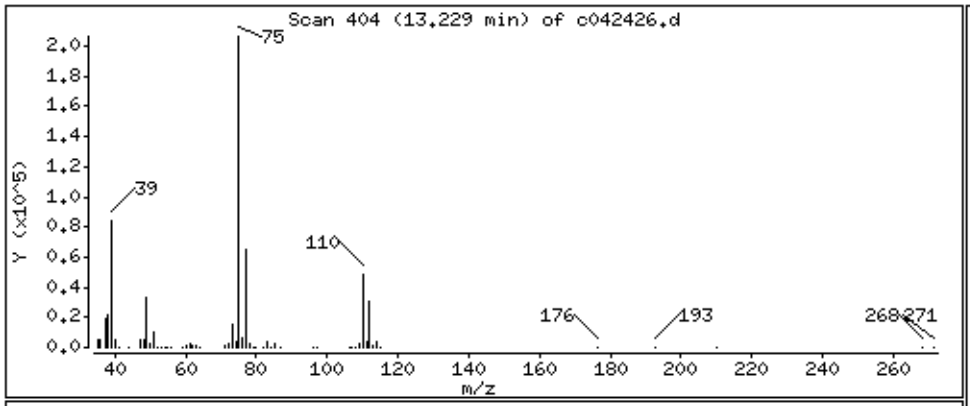
Operator: JP

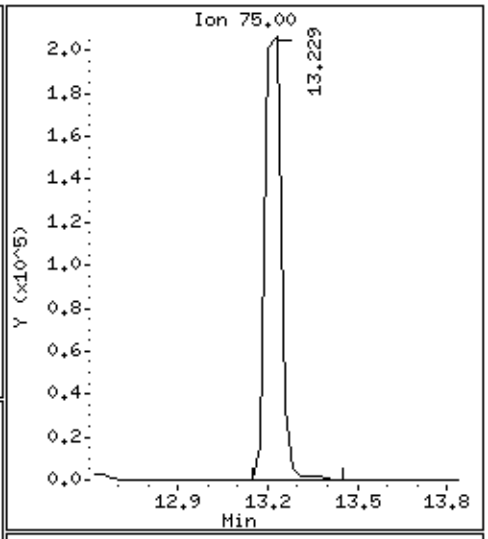
Column phase: RTx-624

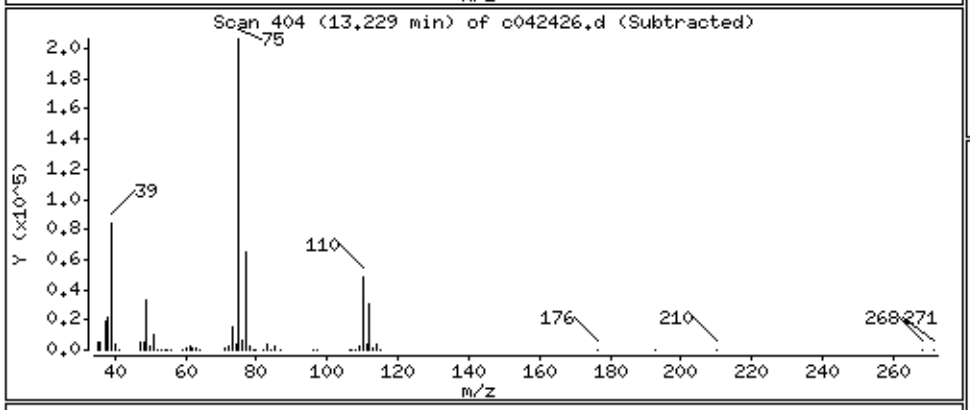
Column diameter: 0.53

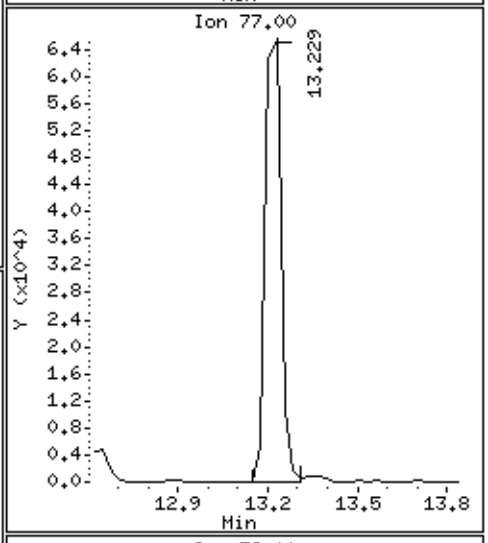
113 trans-1,3-Dichloropropene

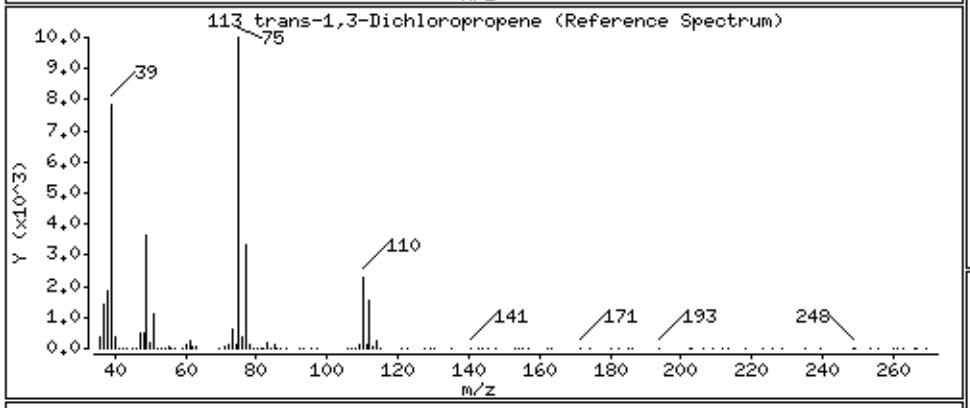
Concentration: 200.48 PPBV

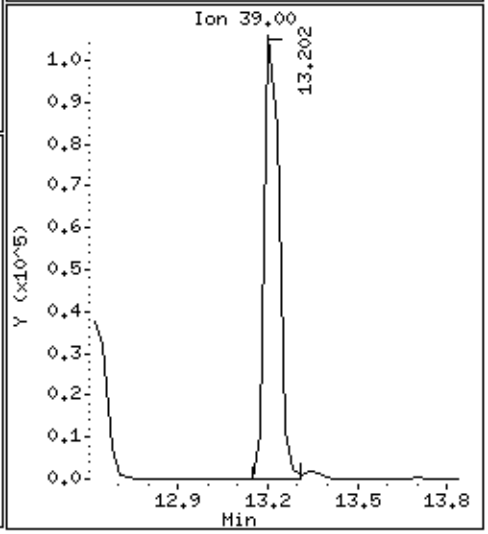


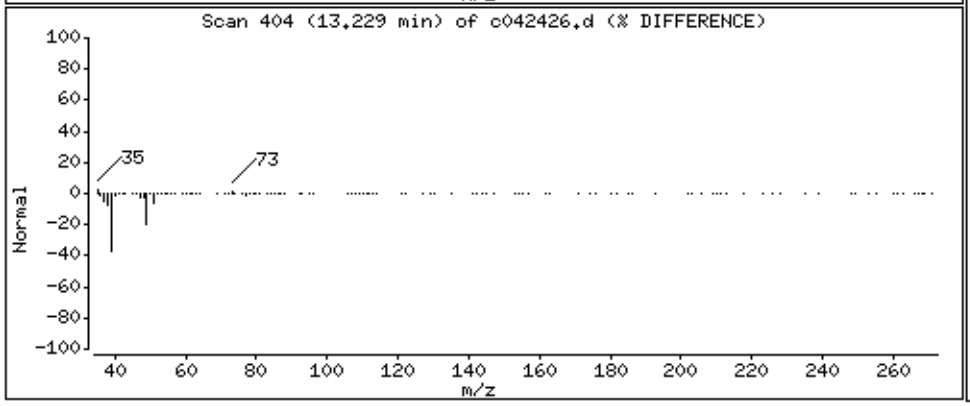












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

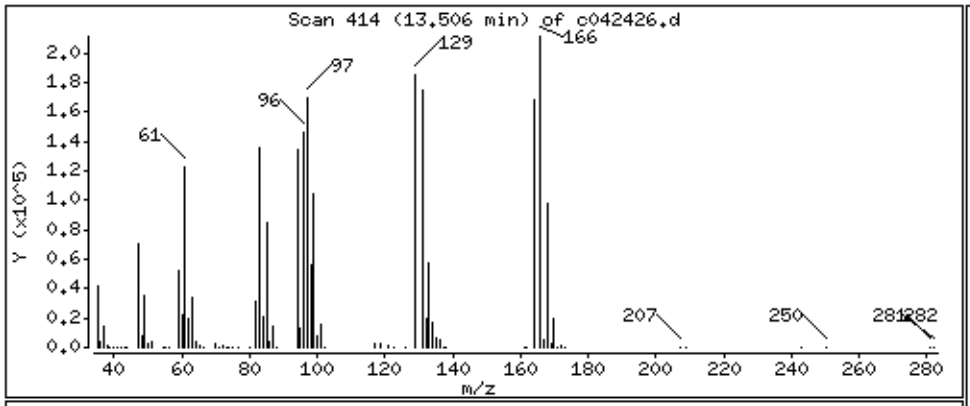
Operator: JP

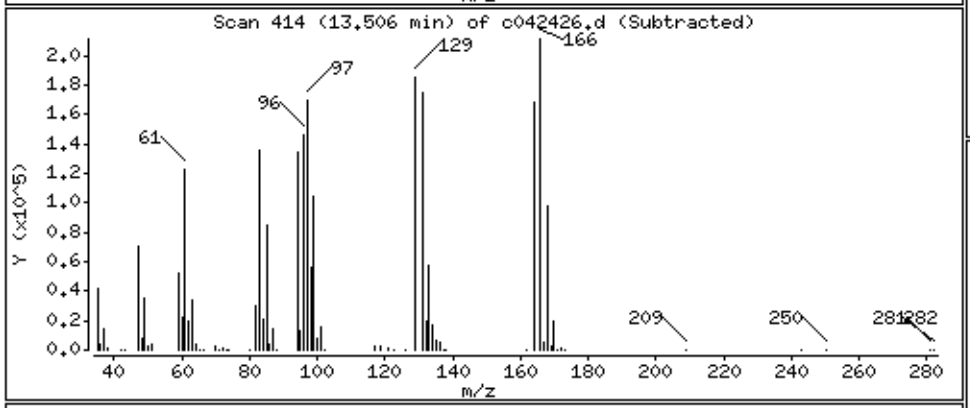
Column phase: RTx-624

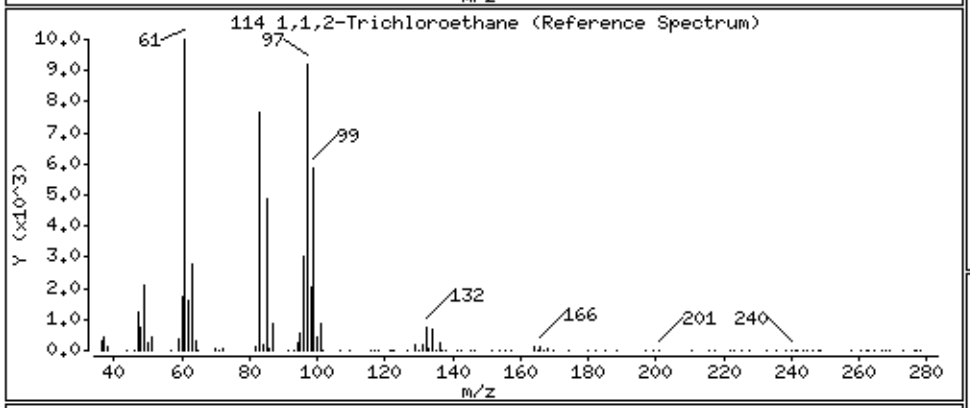
Column diameter: 0.53

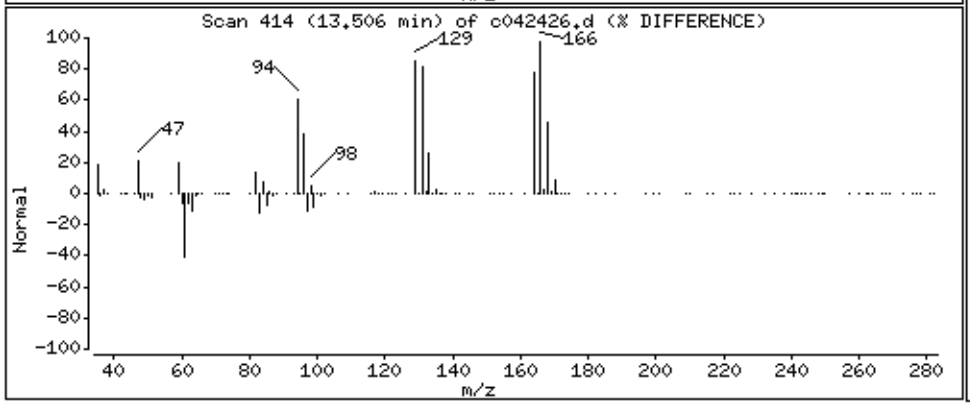
114 1,1,2-Trichloroethane

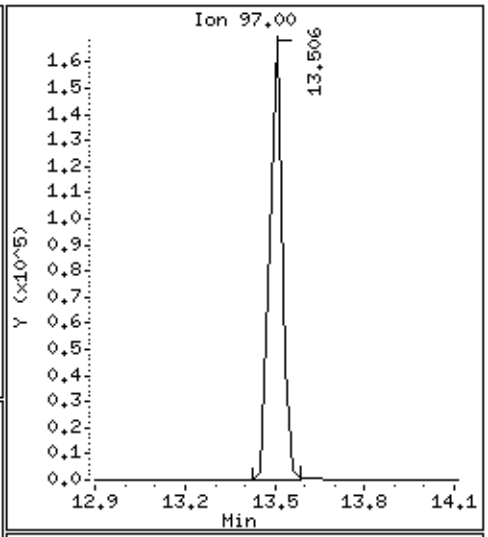
Concentration: 196.57 PPBV

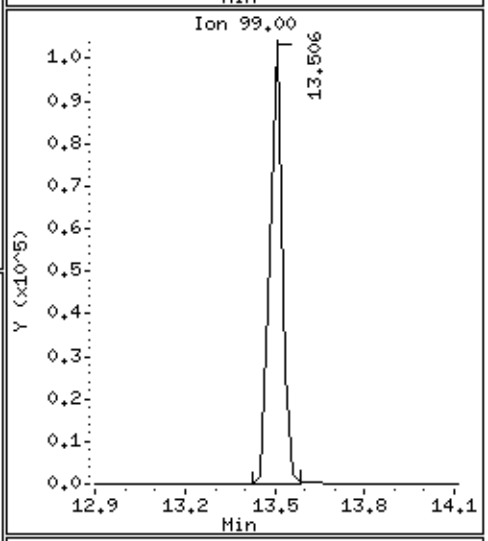


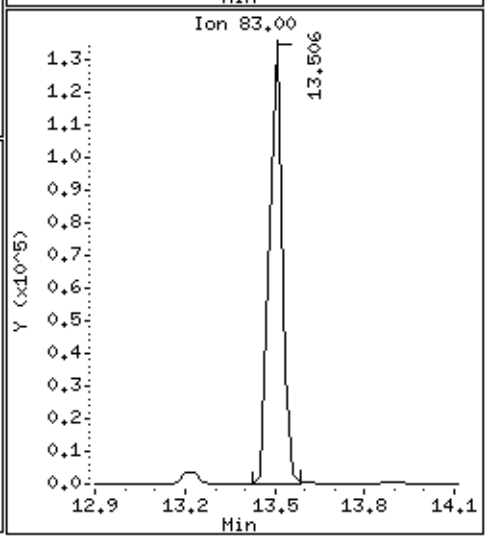












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

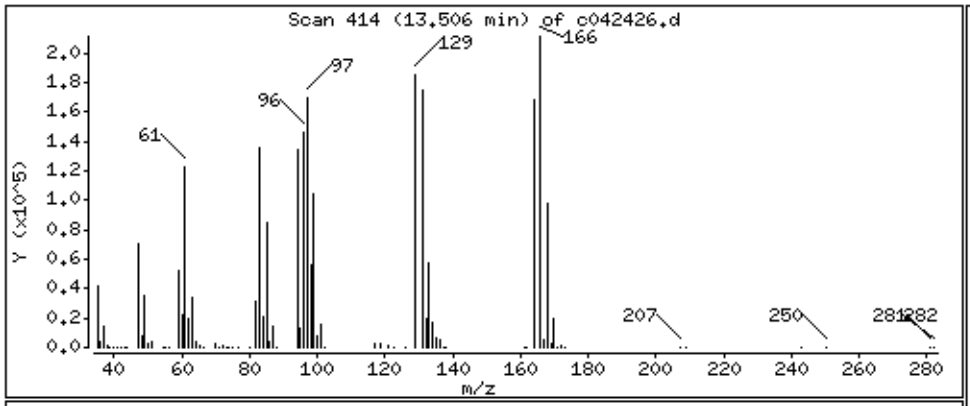
Operator: JP

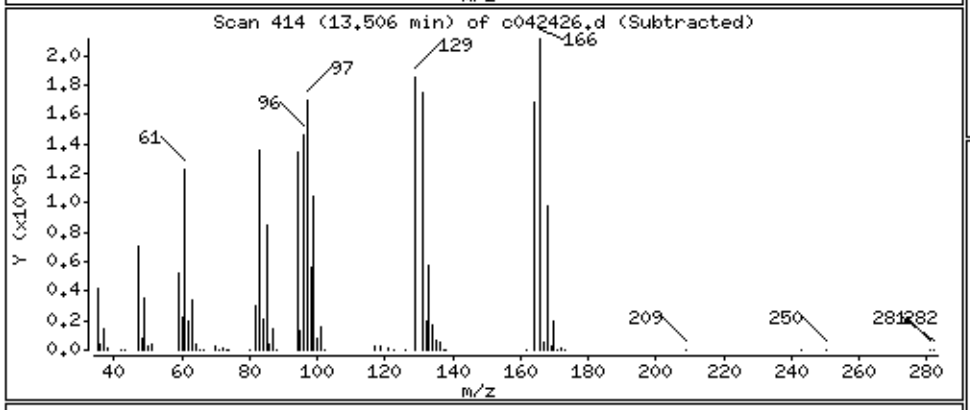
Column phase: RTx-624

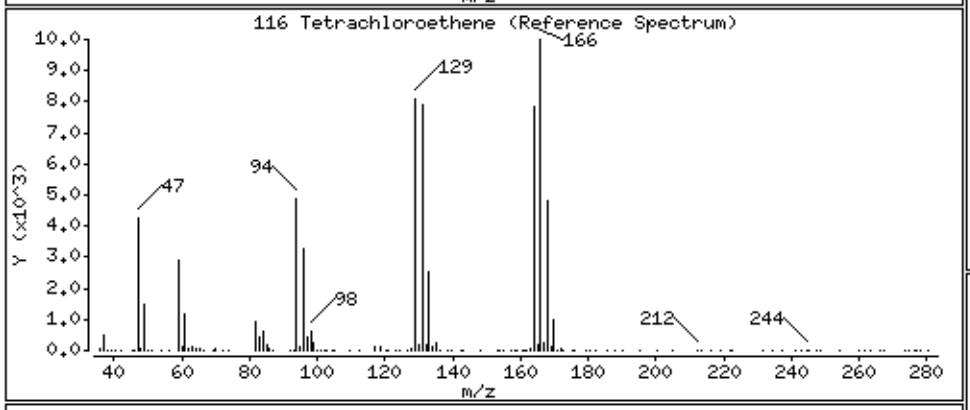
Column diameter: 0.53

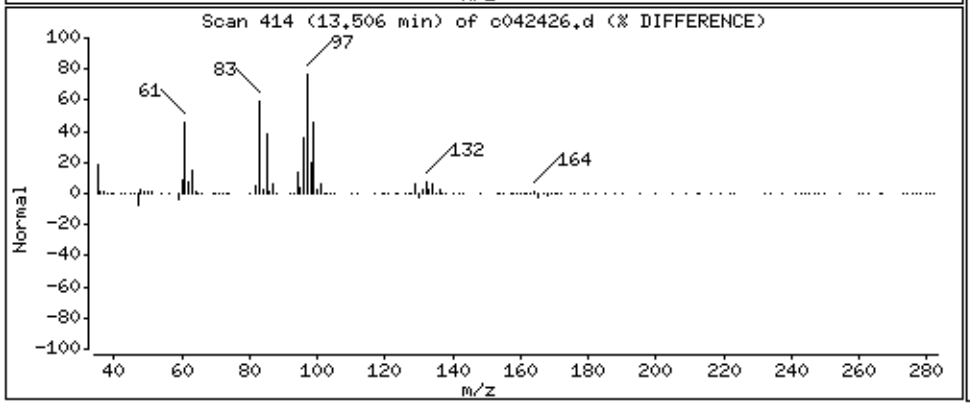
116 Tetrachloroethene

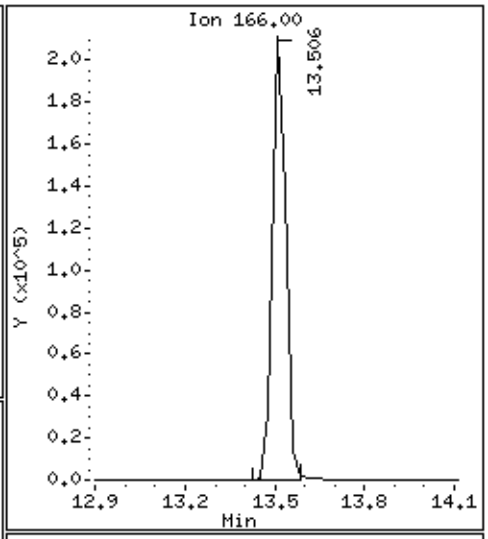
Concentration: 188.55 PPBV

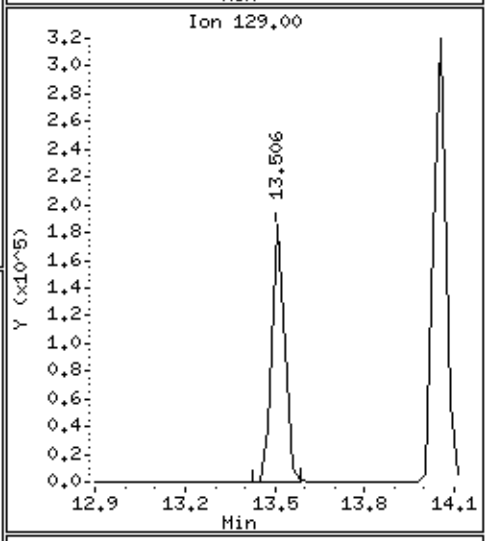


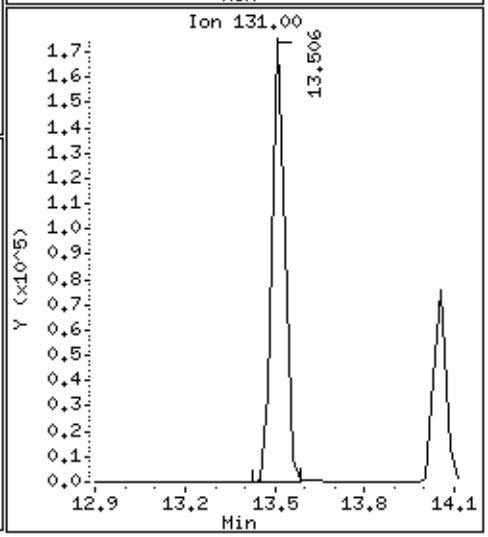












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

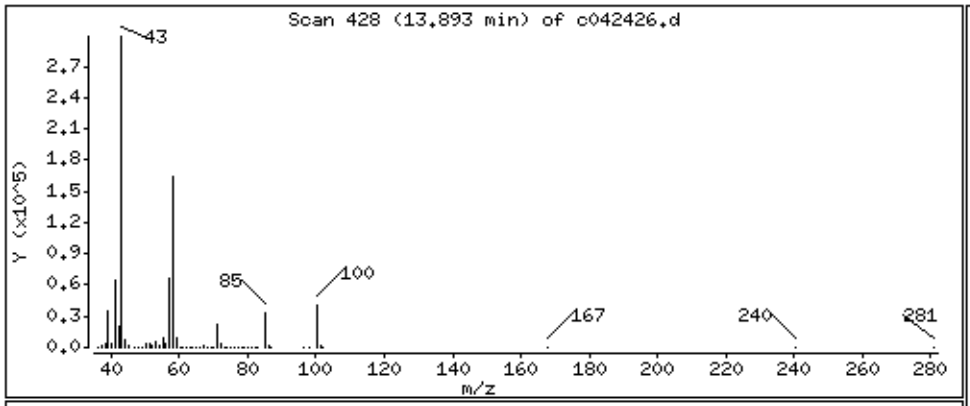
Operator: JP

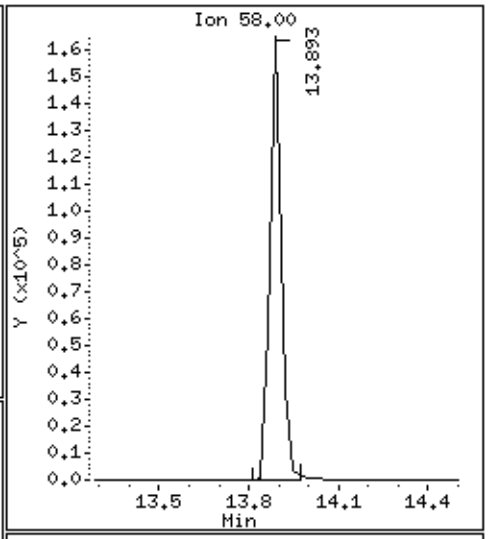
Column phase: RTx-624

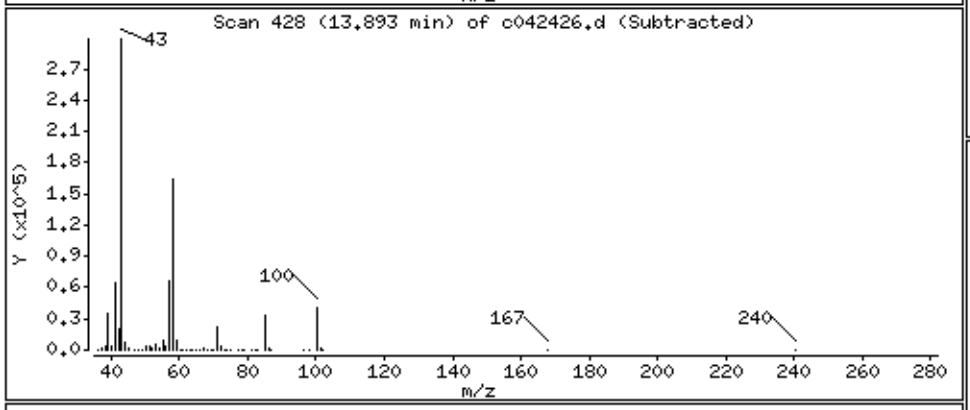
Column diameter: 0.53

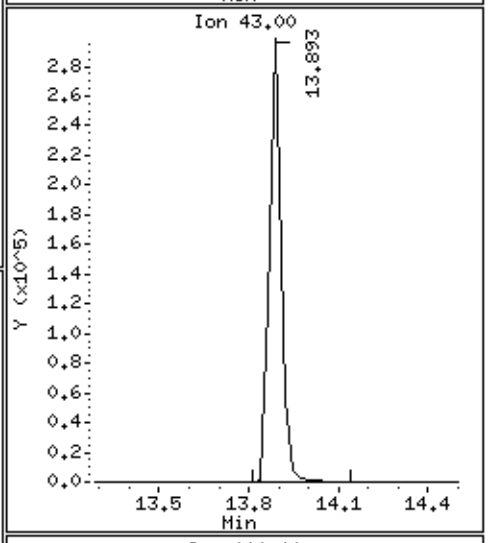
119 2-Hexanone

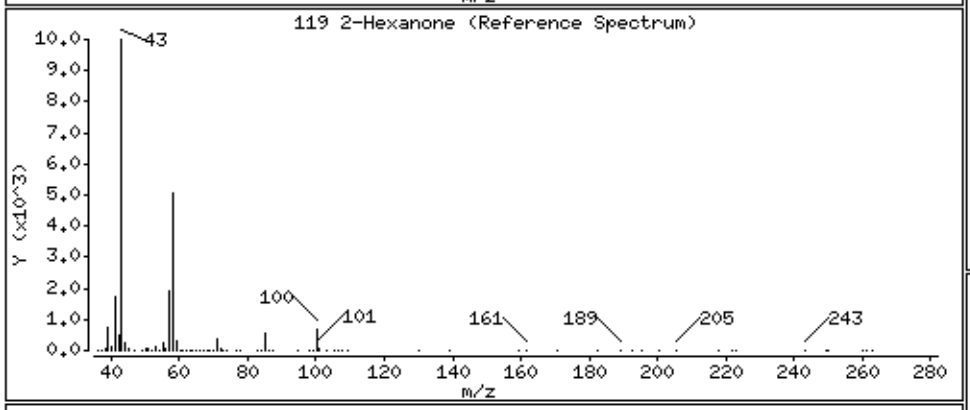
Concentration: 198.47 PPBV

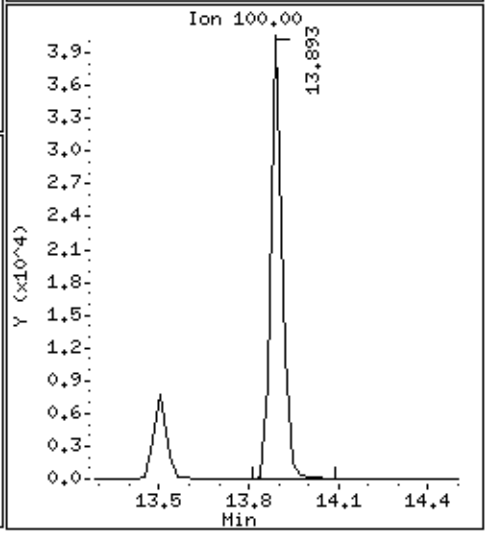


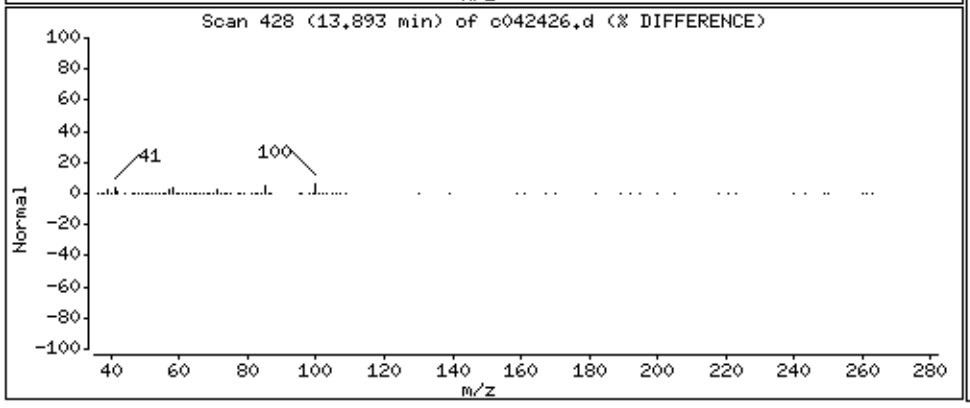












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

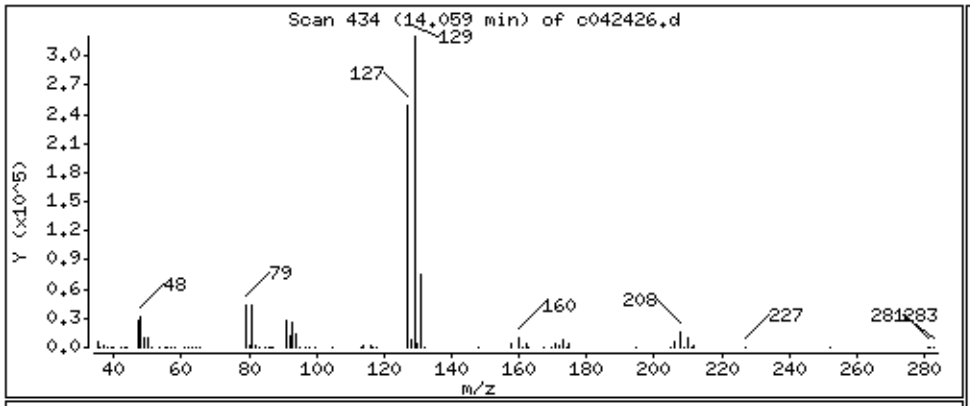
Operator: JP

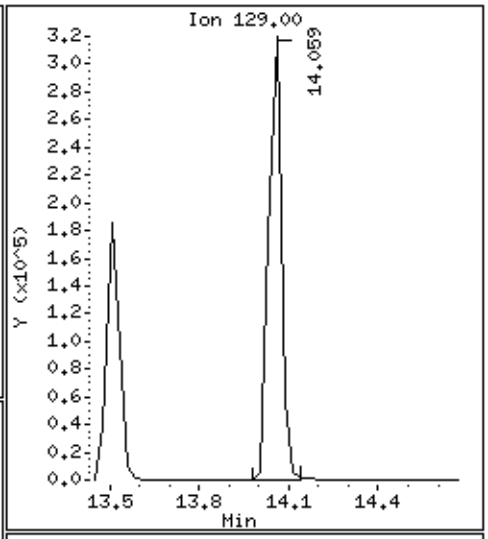
Column phase: RTx-624

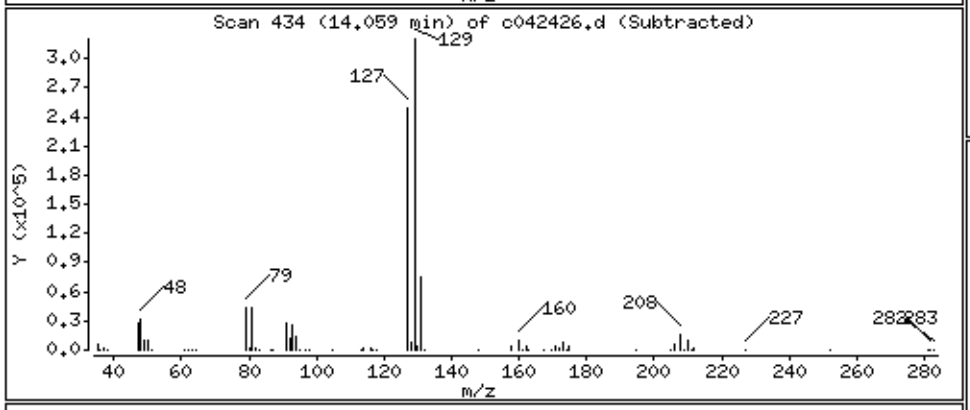
Column diameter: 0.53

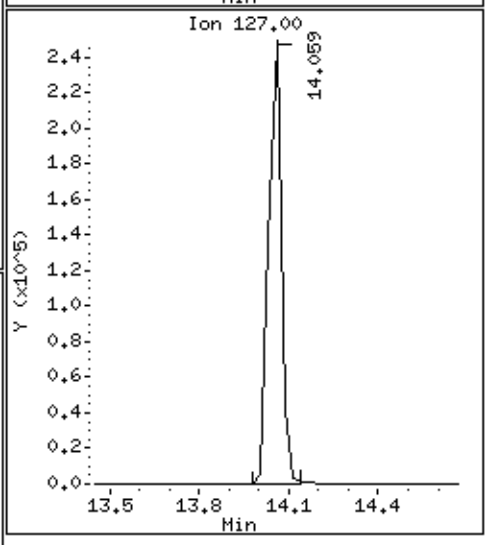
120 Dibromochloromethane

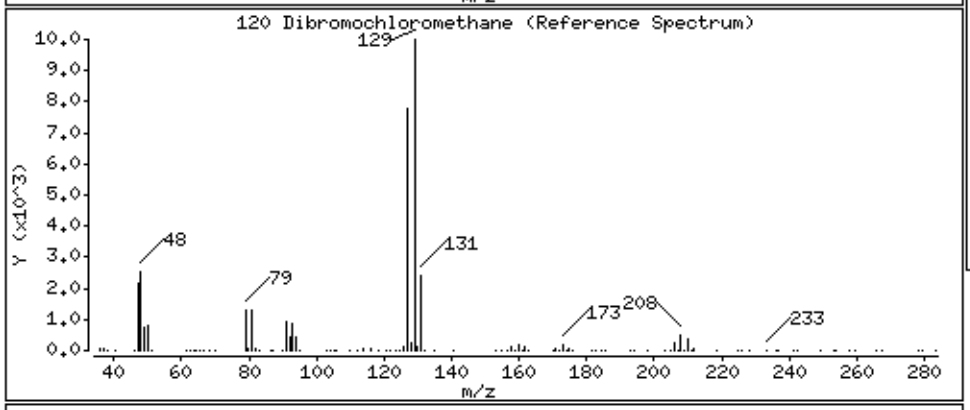
Concentration: 201.22 PPBV

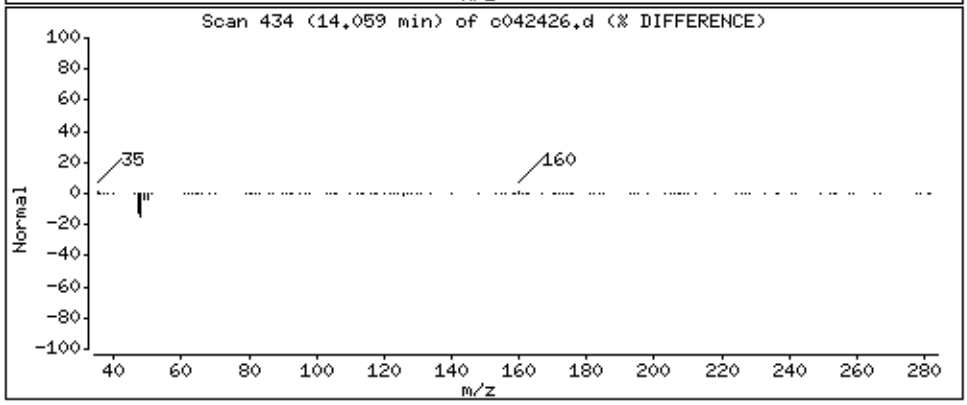












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

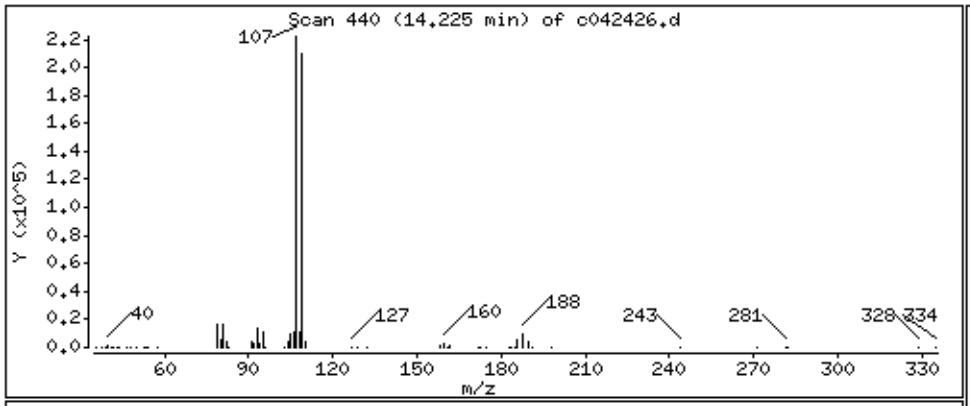
Operator: JP

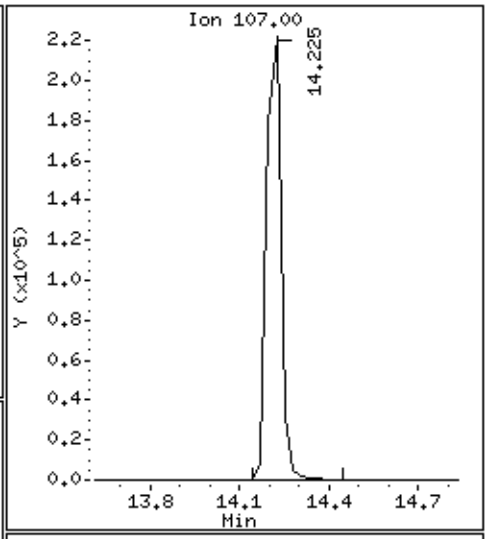
Column phase: RTx-624

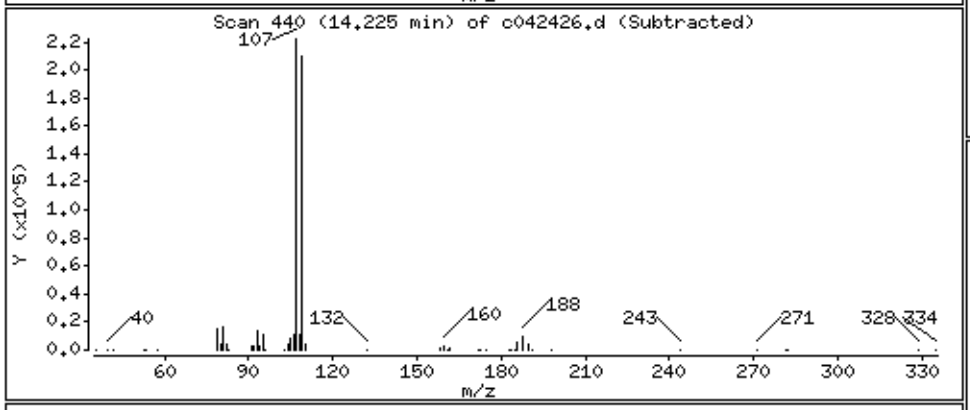
Column diameter: 0.53

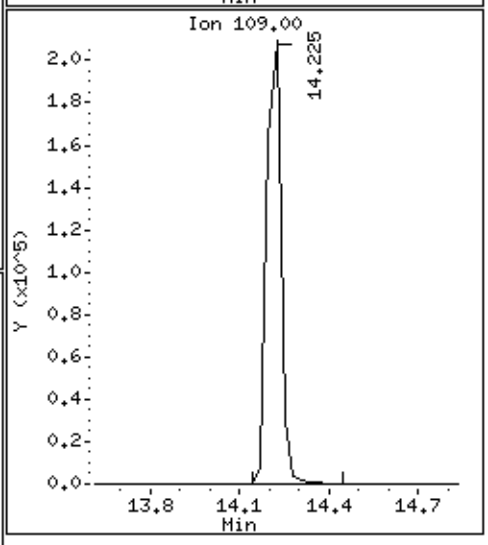
122 1,2-Dibromoethane

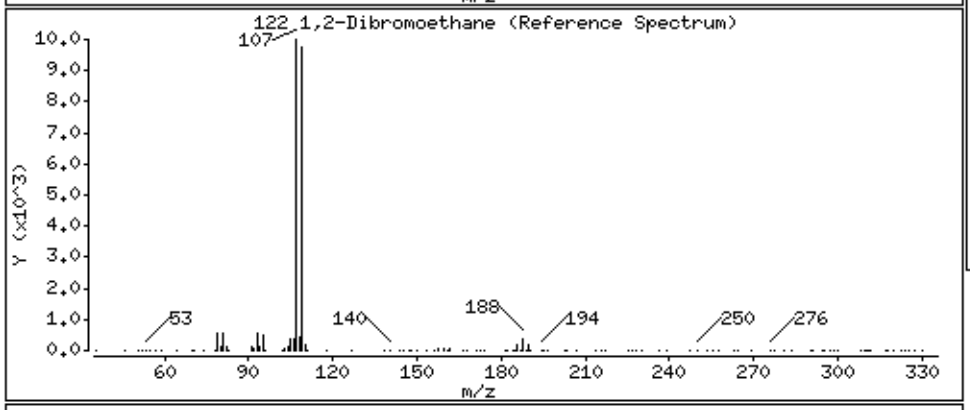
Concentration: 191.28 PPBV

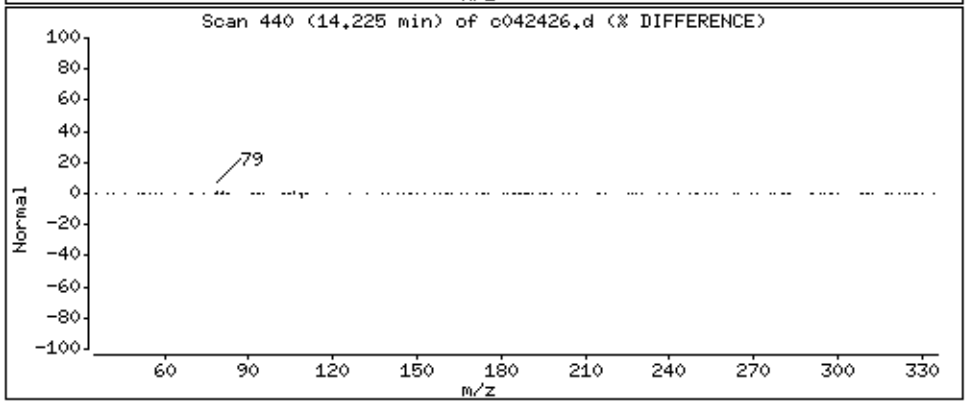












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

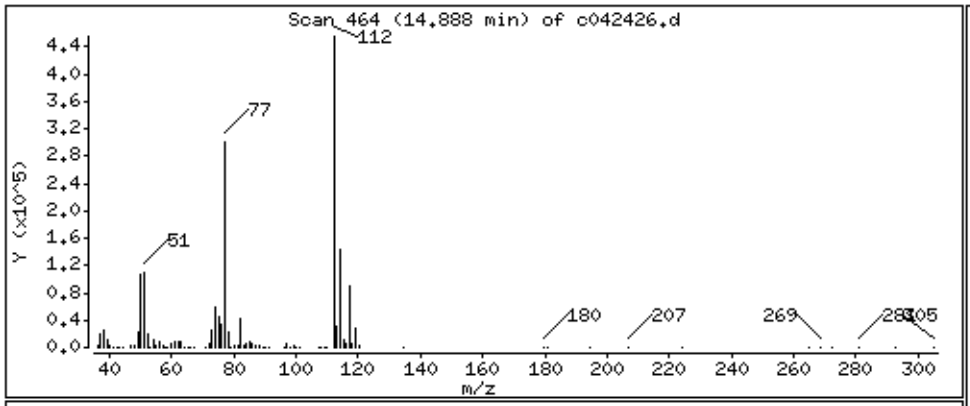
Operator: JP

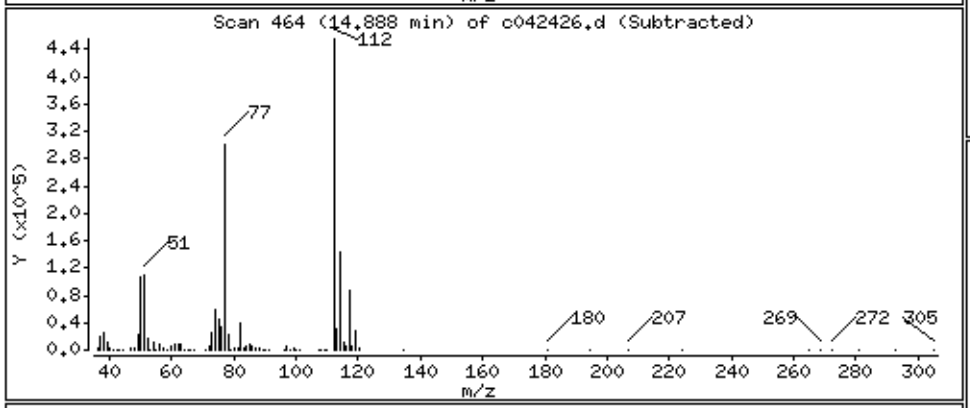
Column phase: RTx-624

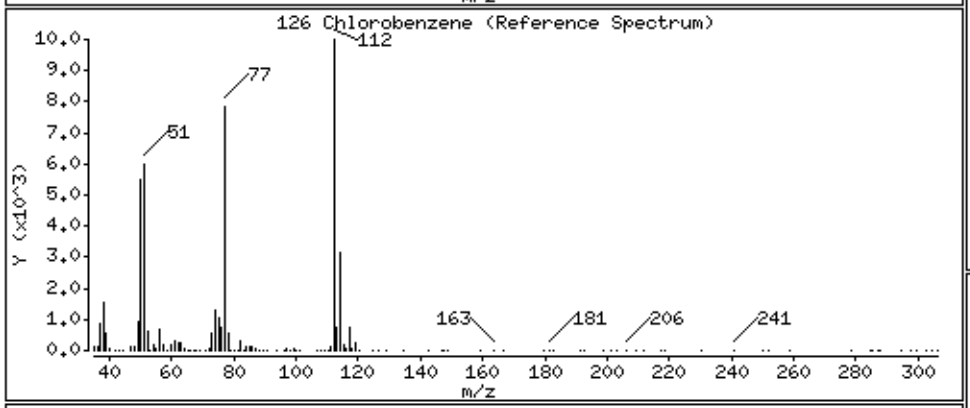
Column diameter: 0.53

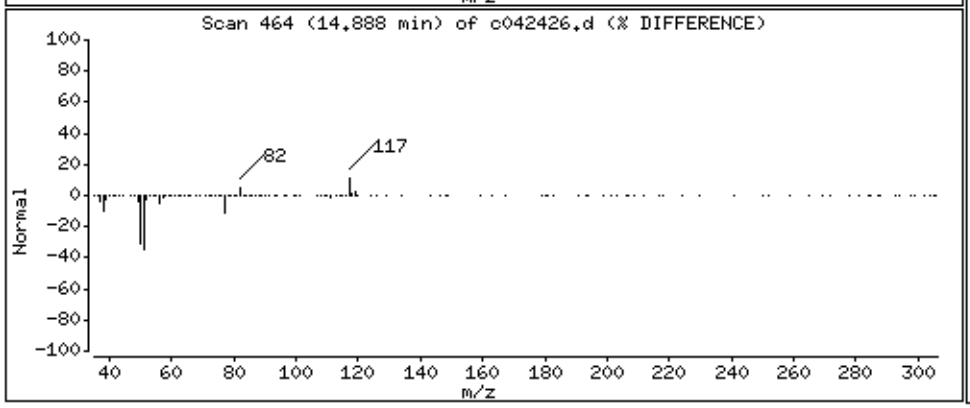
126 Chlorobenzene

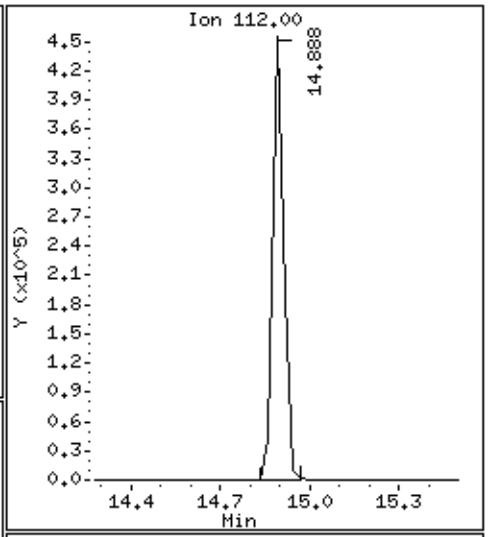
Concentration: 192.22 PPBV

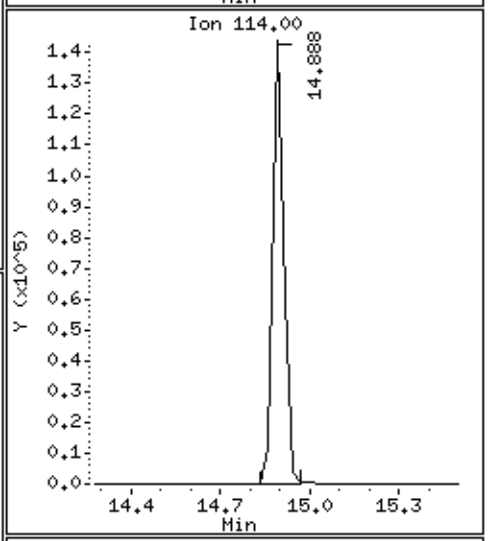


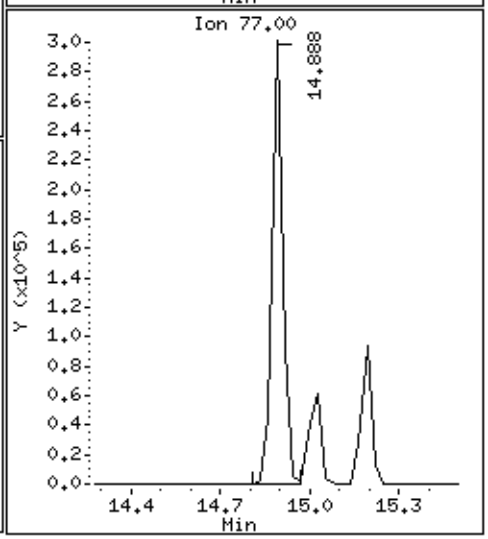












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

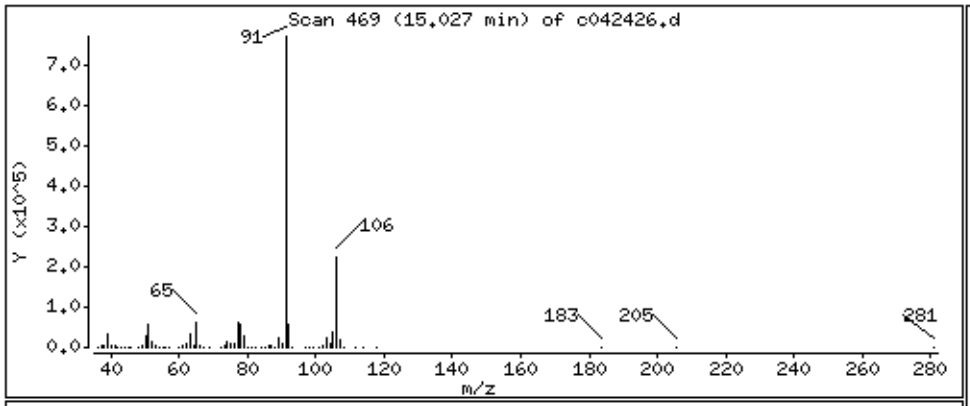
Operator: JP

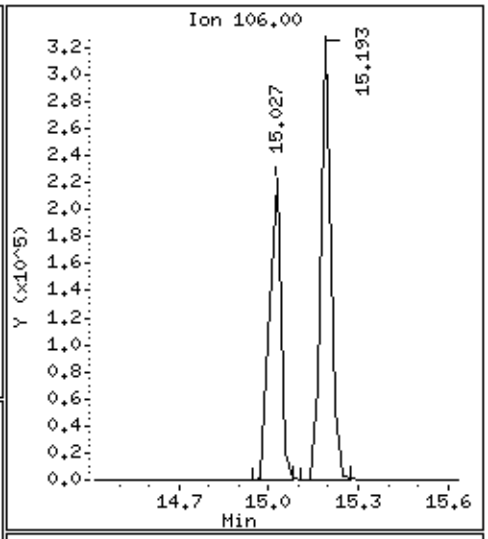
Column phase: RTx-624

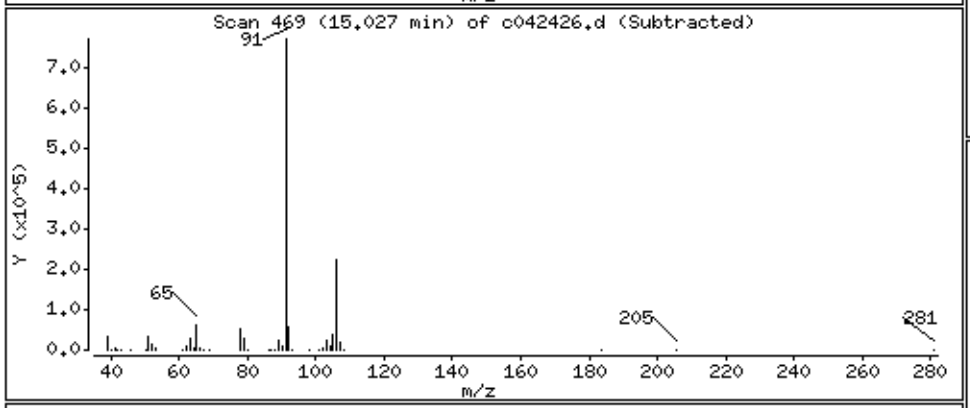
Column diameter: 0.53

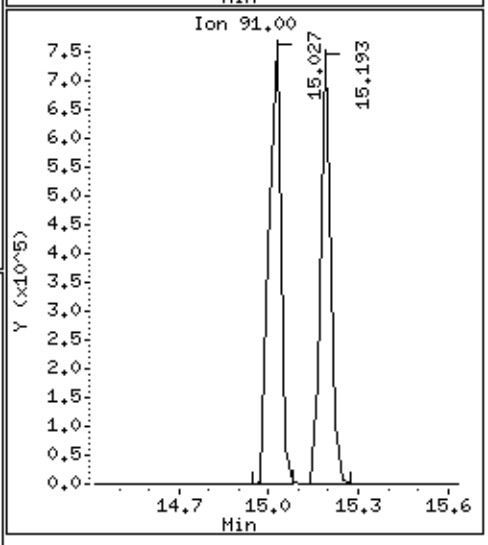
128 Ethyl Benzene

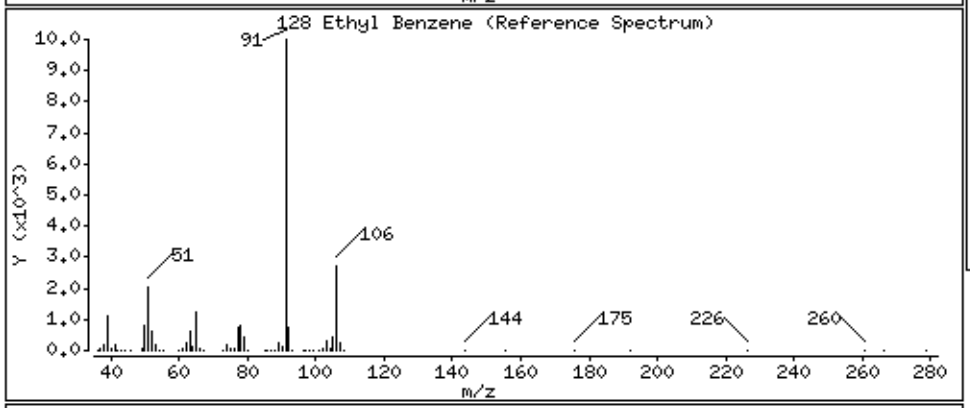
Concentration: 187.24 PPBV

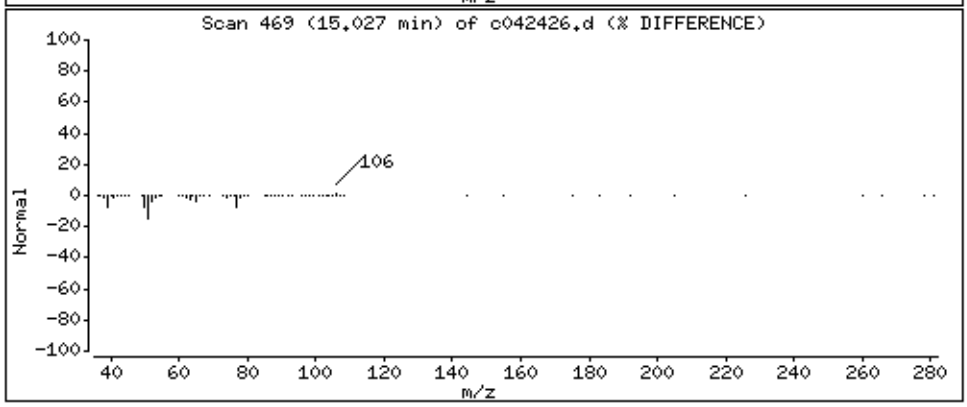












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

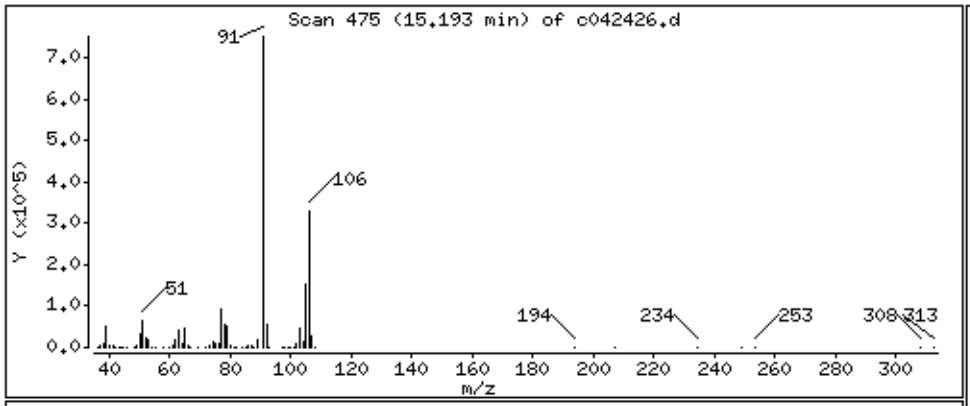
Operator: JP

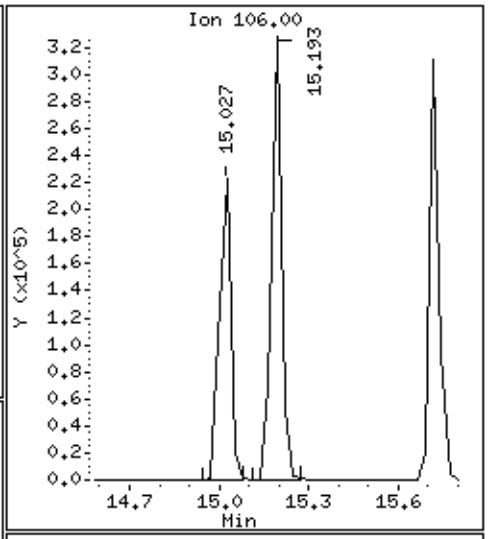
Column phase: RTx-624

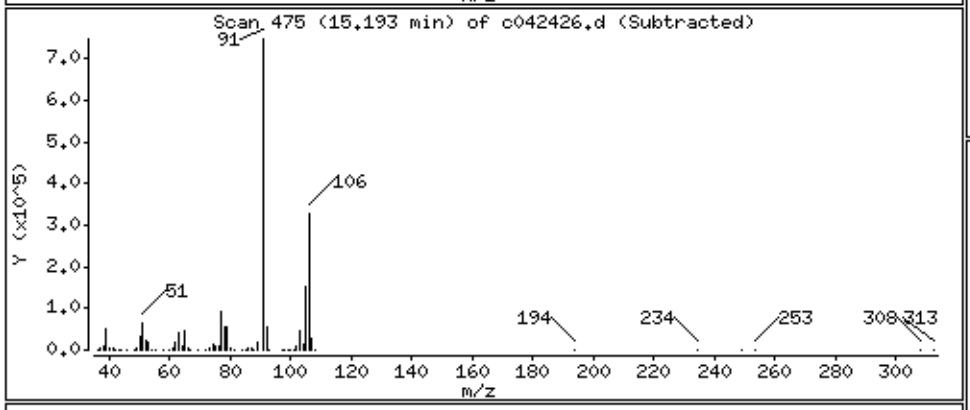
Column diameter: 0.53

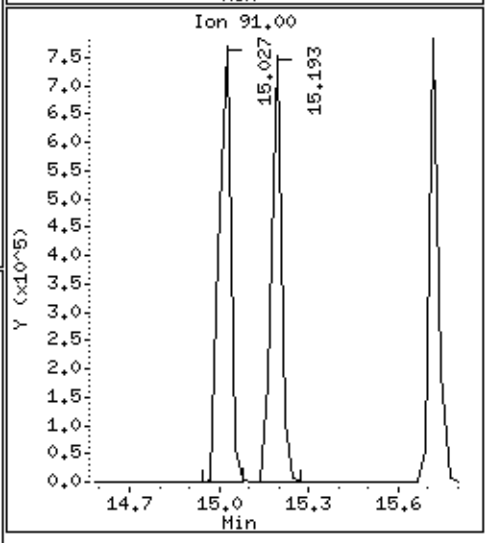
130 m,p-Xylene

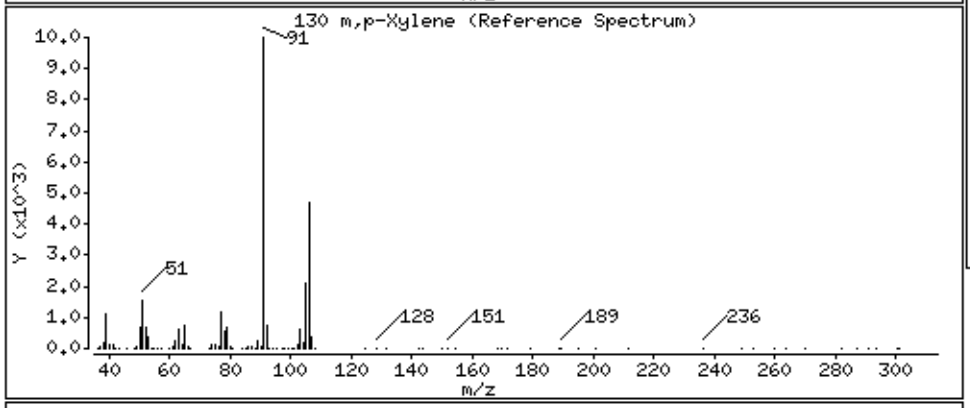
Concentration: 191.44 PPBV

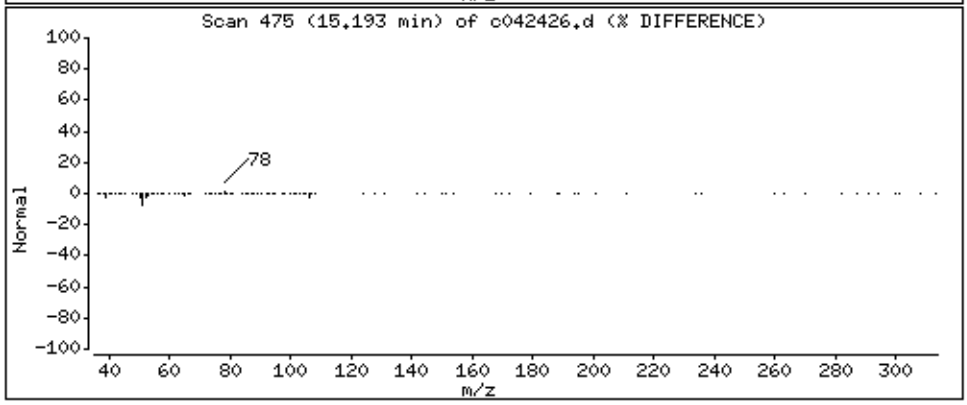












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

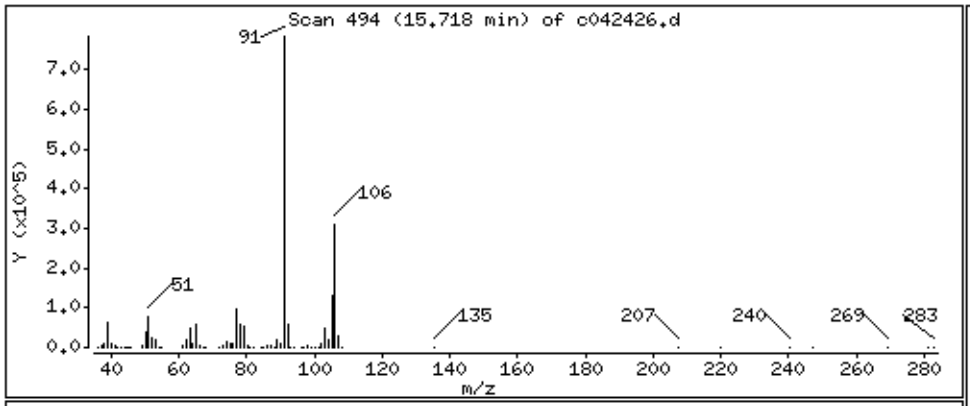
Operator: JP

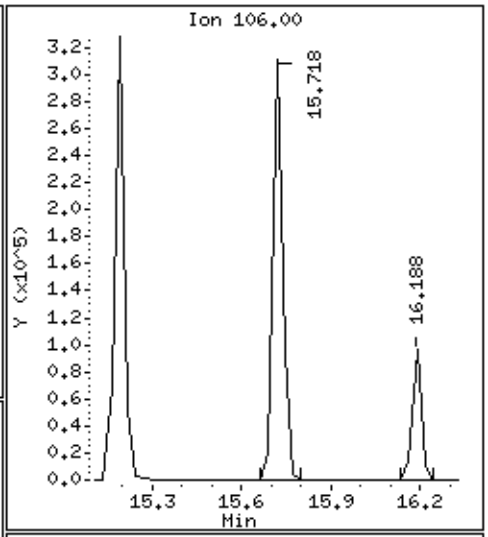
Column phase: RTx-624

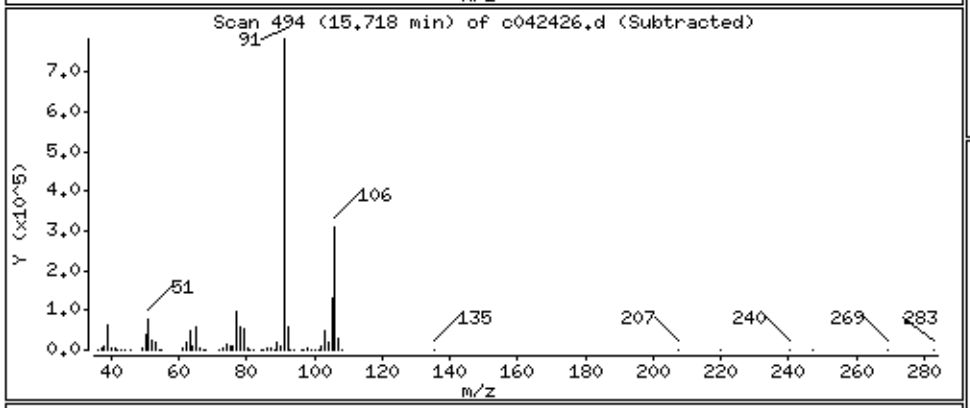
Column diameter: 0.53

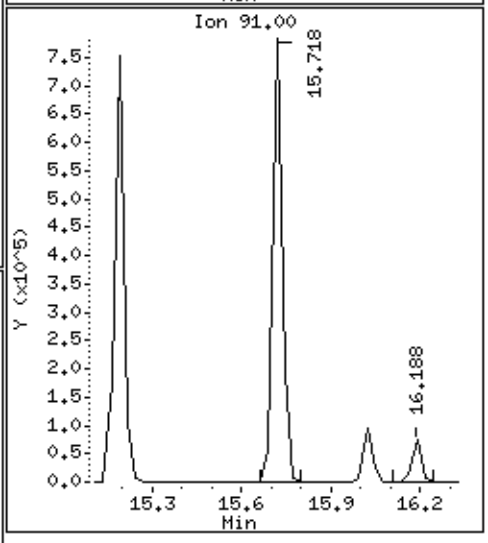
132 o-Xylene

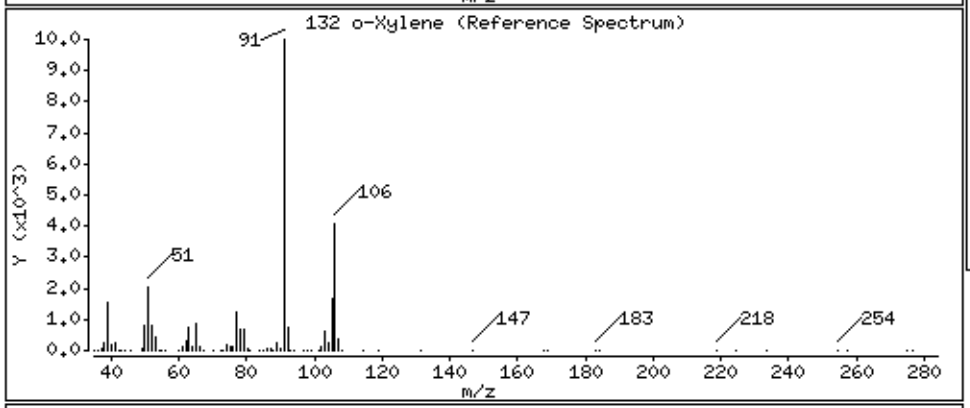
Concentration: 194.92 PPBV

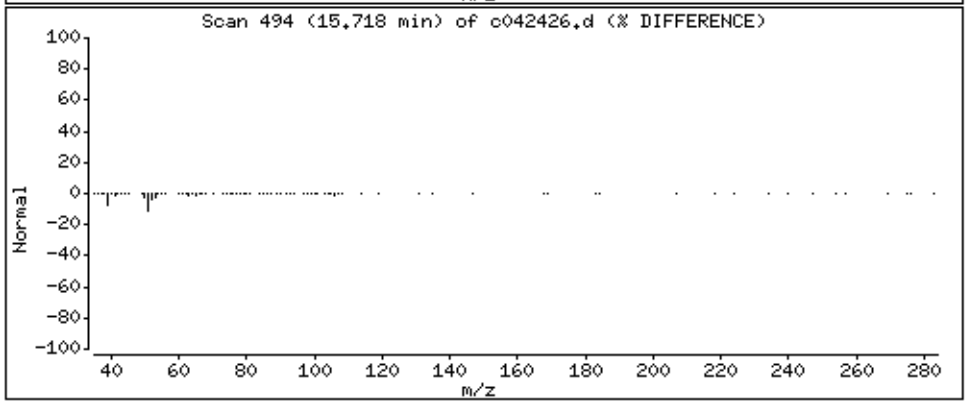












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

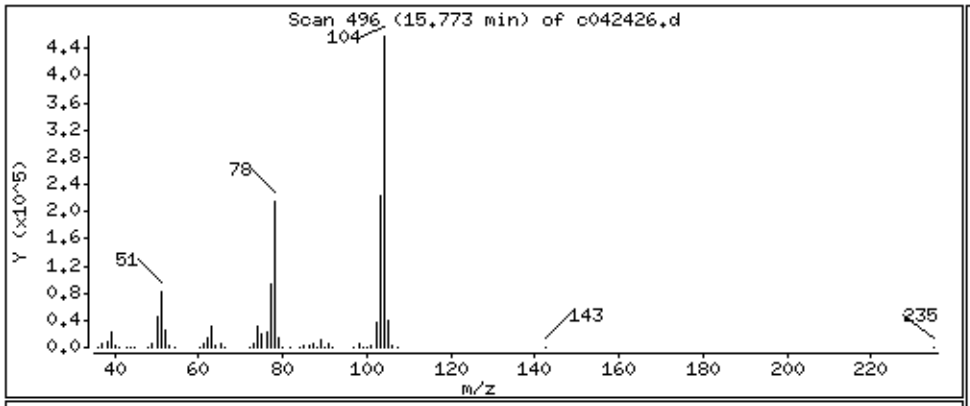
Operator: JP

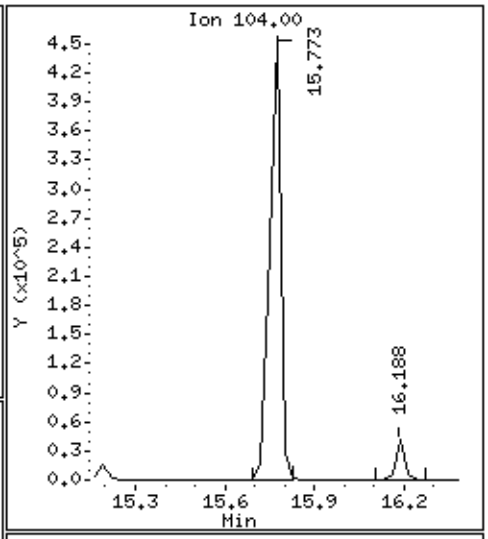
Column phase: RTx-624

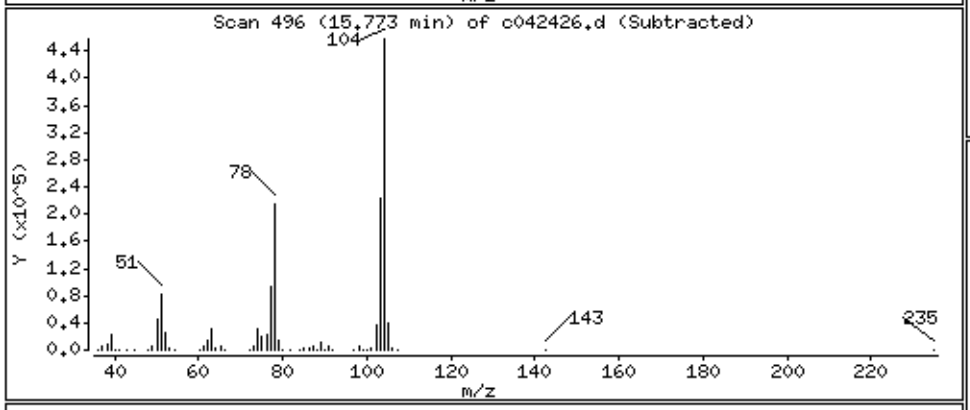
Column diameter: 0.53

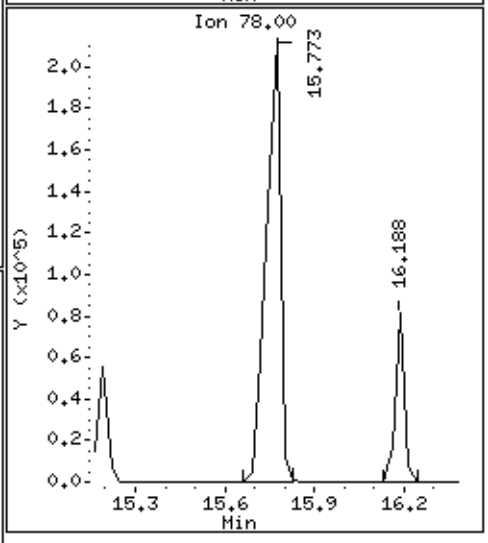
133 Styrene

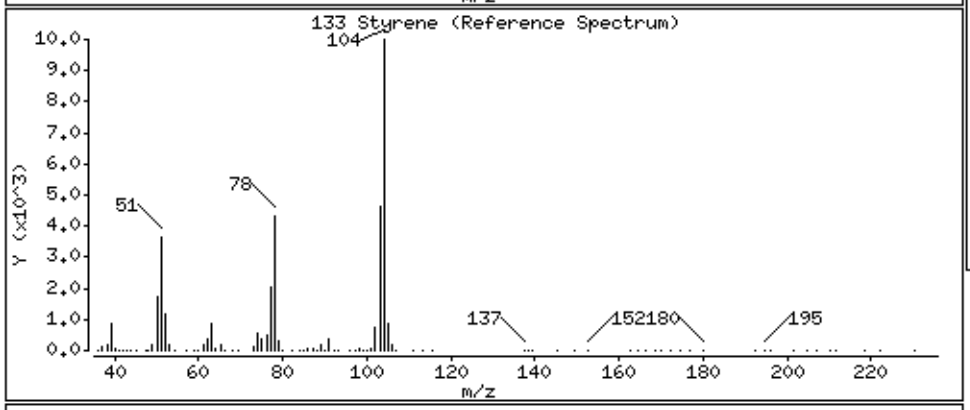
Concentration: 205.29 PPBV

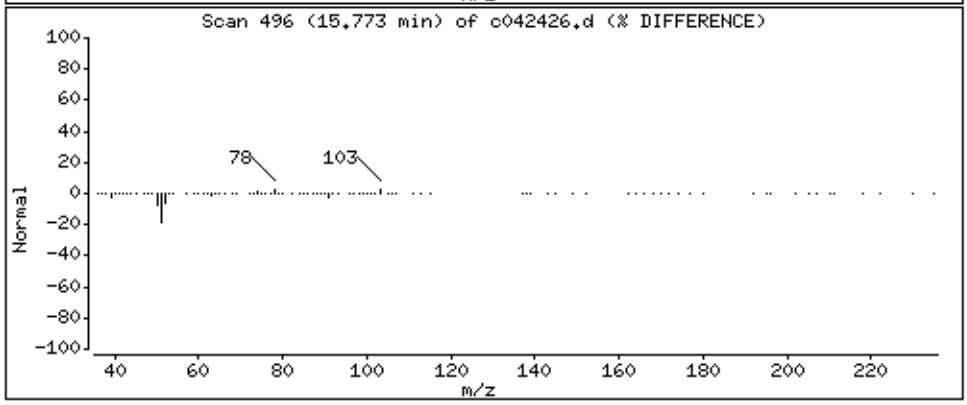












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

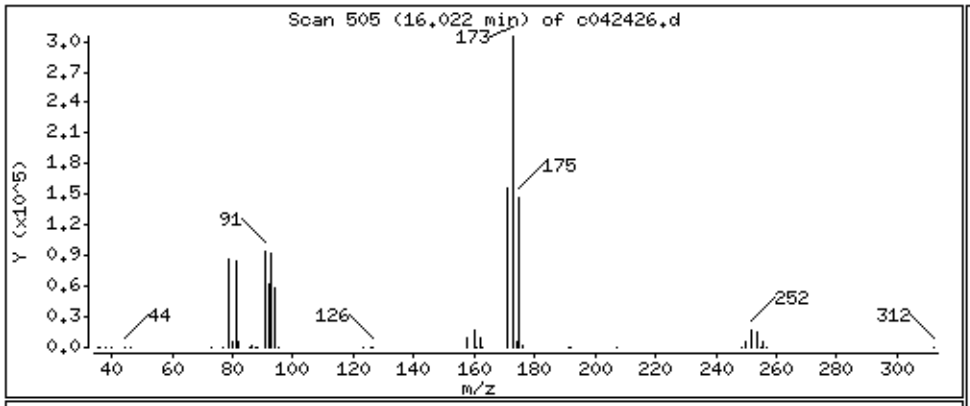
Operator: JP

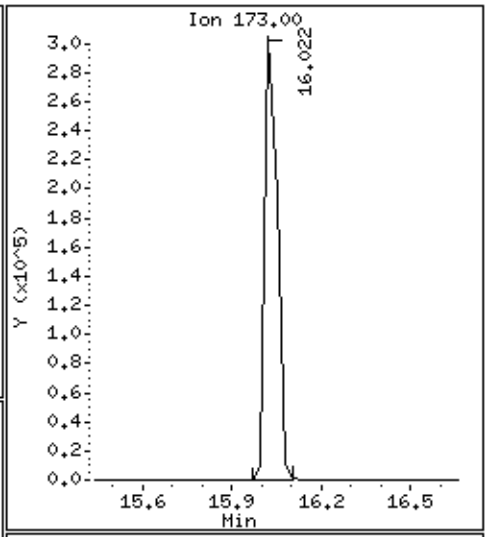
Column phase: RTx-624

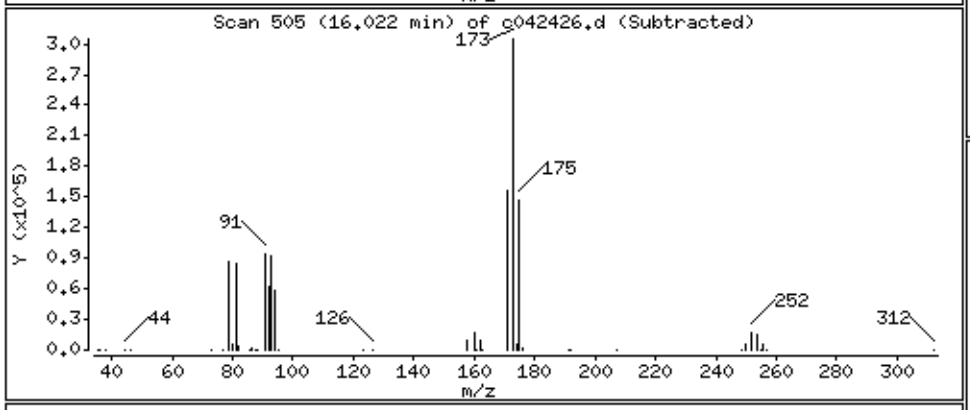
Column diameter: 0.53

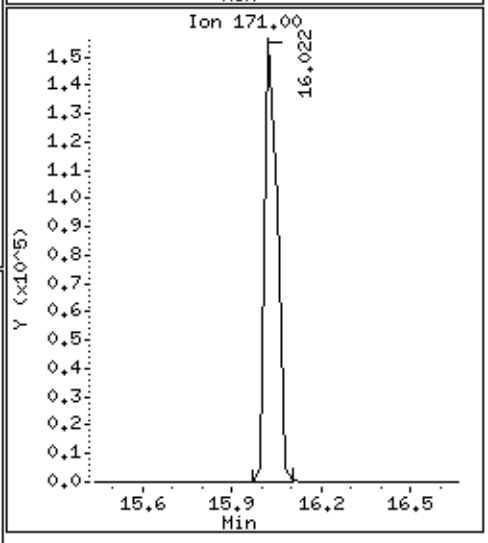
134 Bromoform

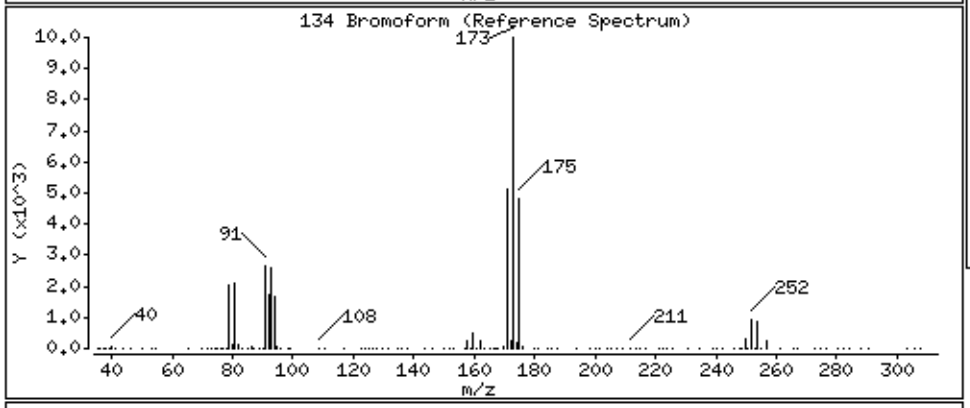
Concentration: 204.05 PPBV

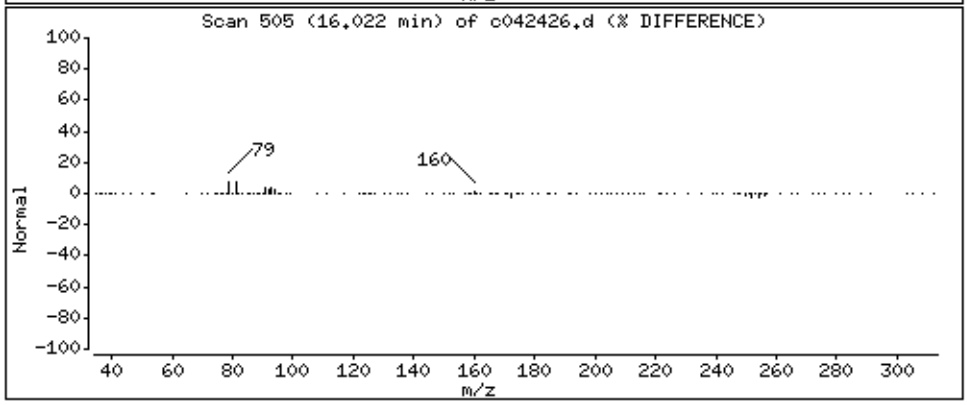












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

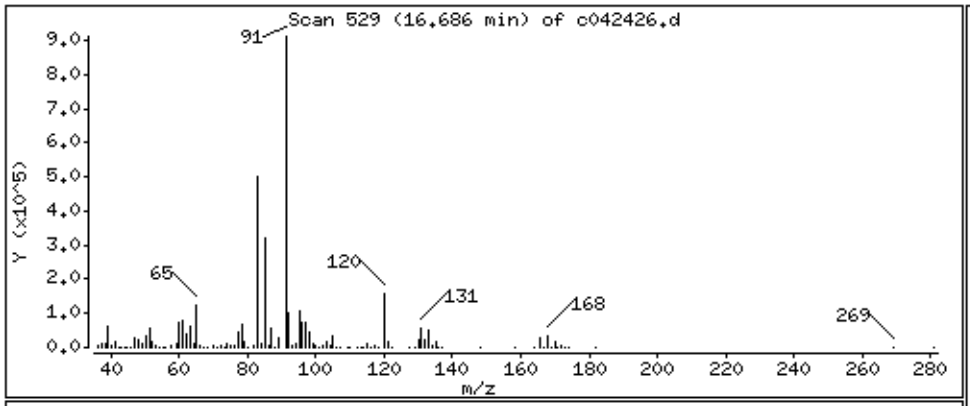
Operator: JP

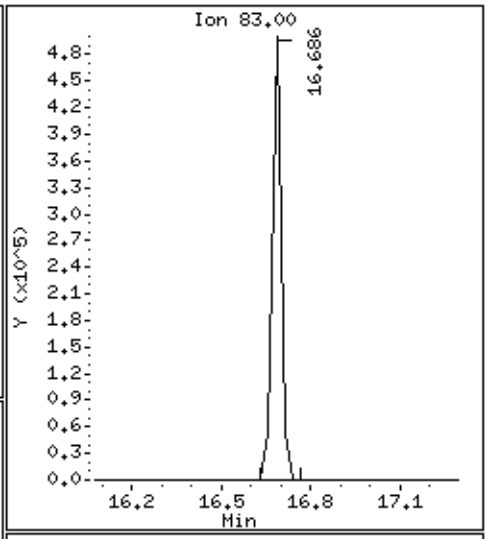
Column phase: RTx-624

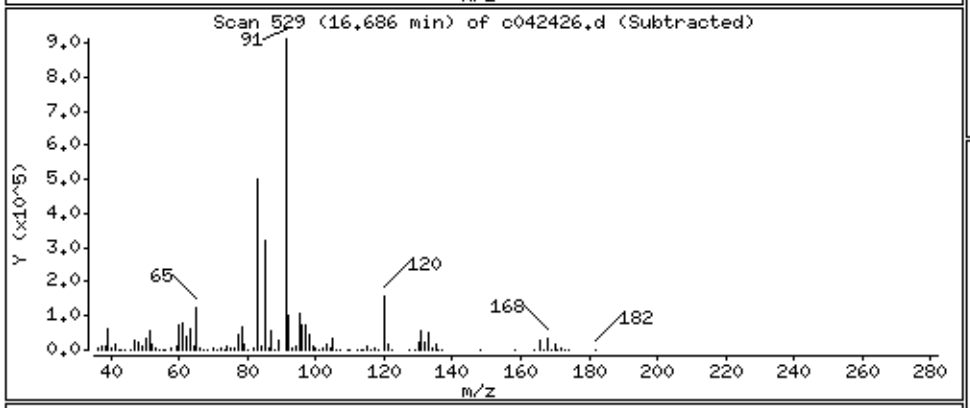
Column diameter: 0.53

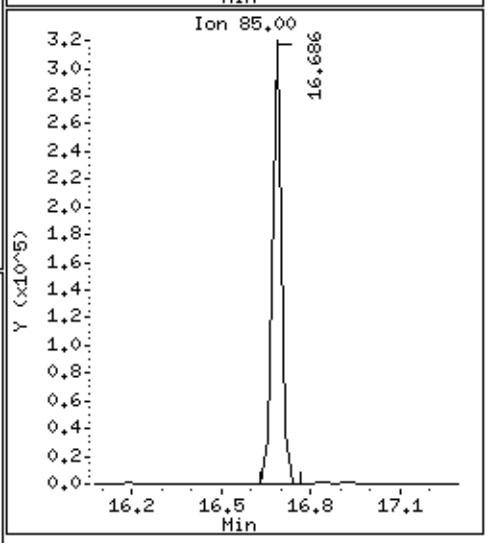
141 1,1,2,2-Tetrachloroethane

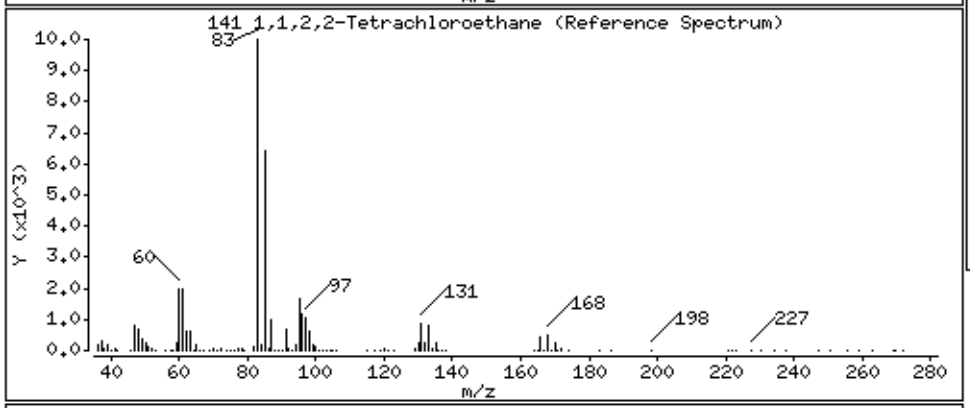
Concentration: 207.01 PPBV

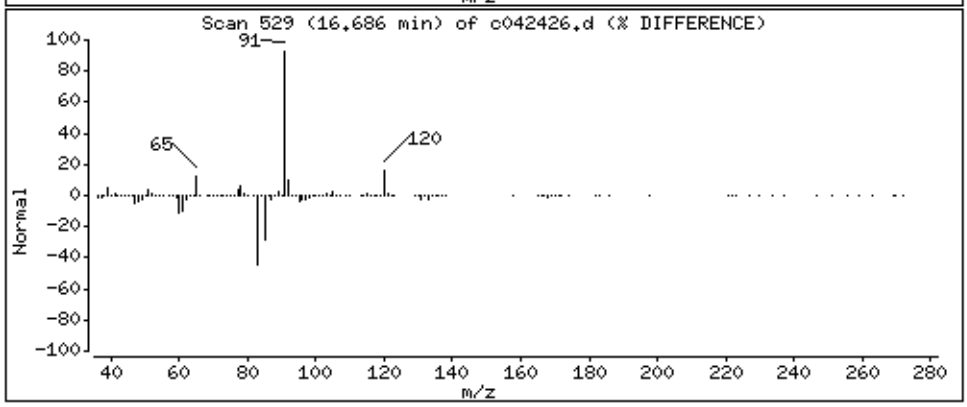












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

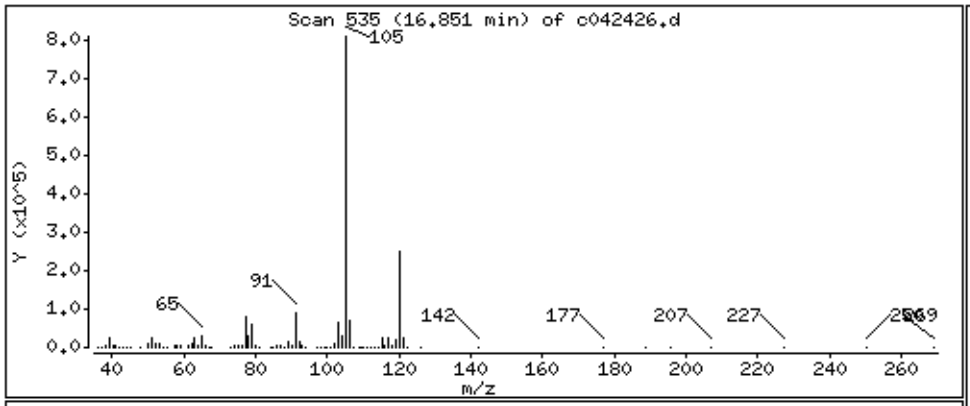
Operator: JP

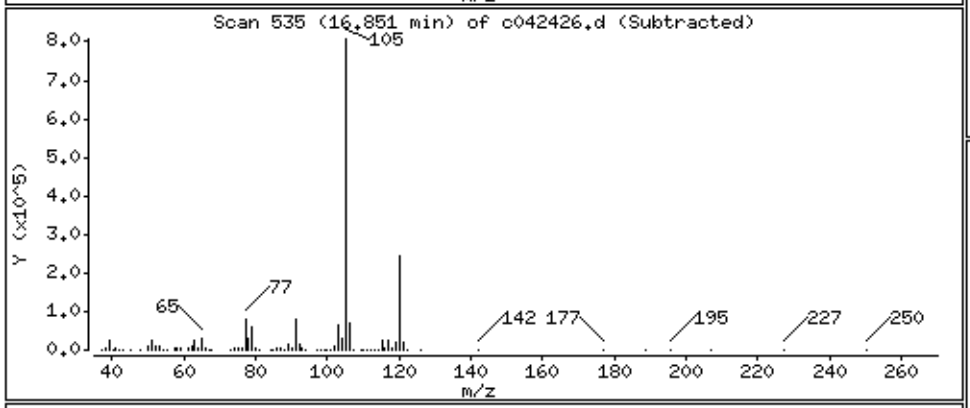
Column phase: RTx-624

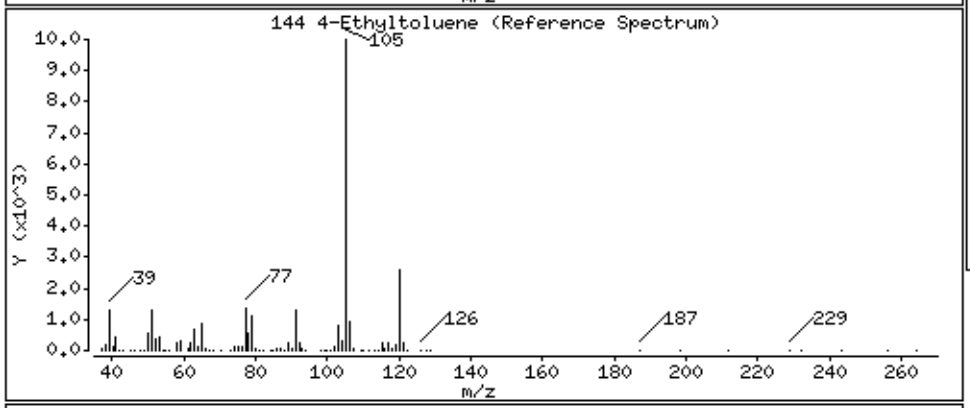
Column diameter: 0.53

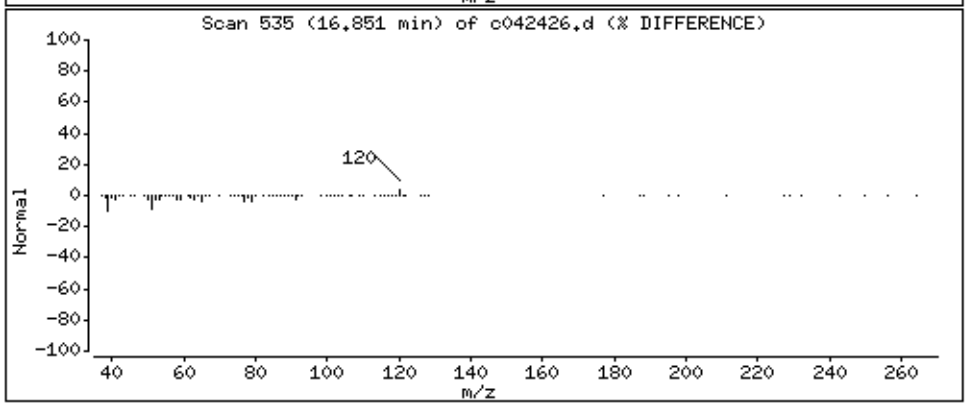
144 4-Ethyltoluene

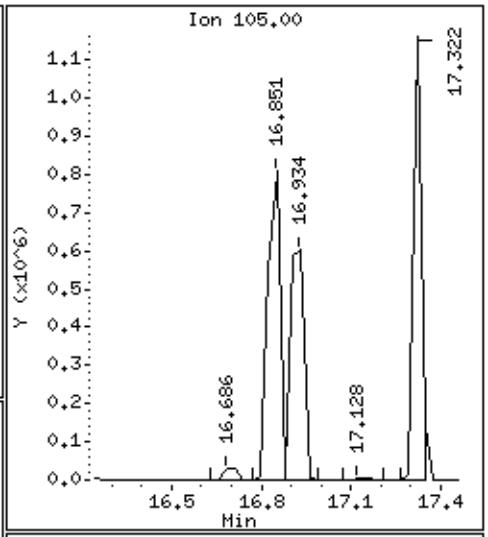
Concentration: 212.52 PPBV

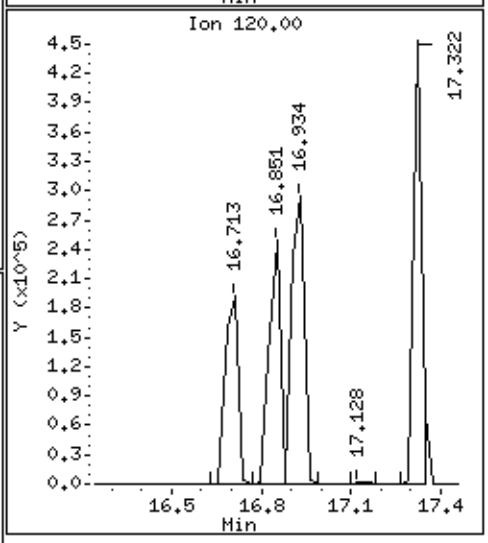












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

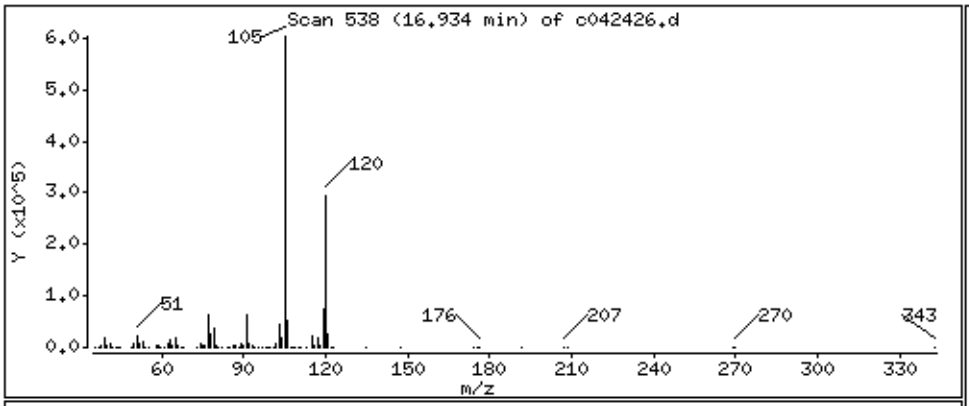
Operator: JP

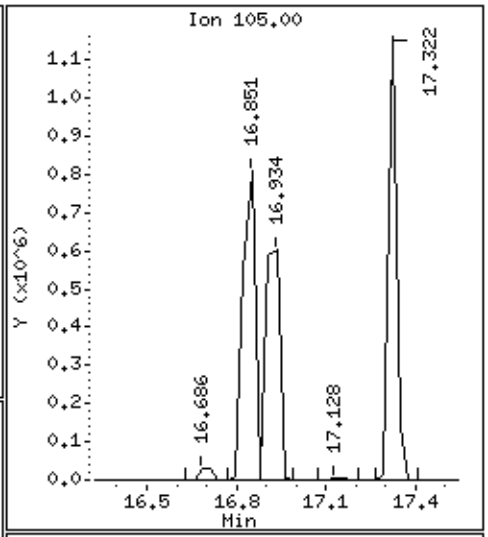
Column phase: RTx-624

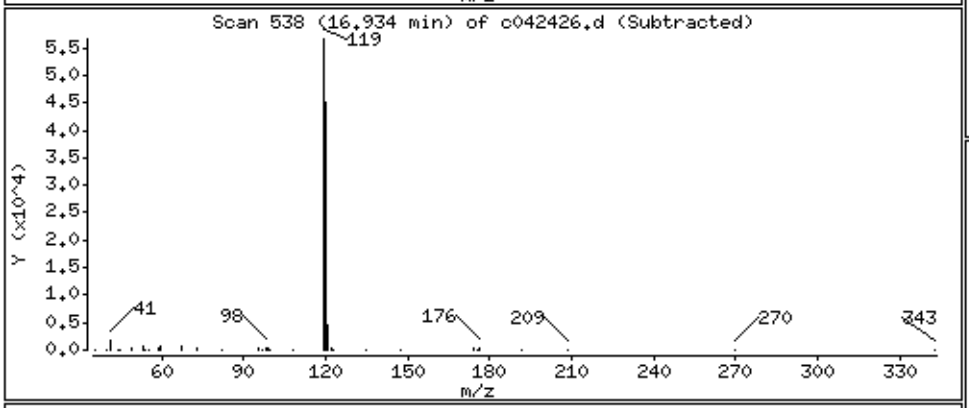
Column diameter: 0.53

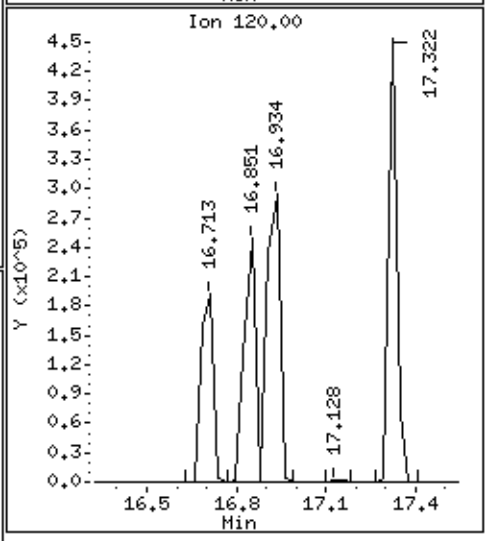
147 1,3,5-Trimethylbenzene

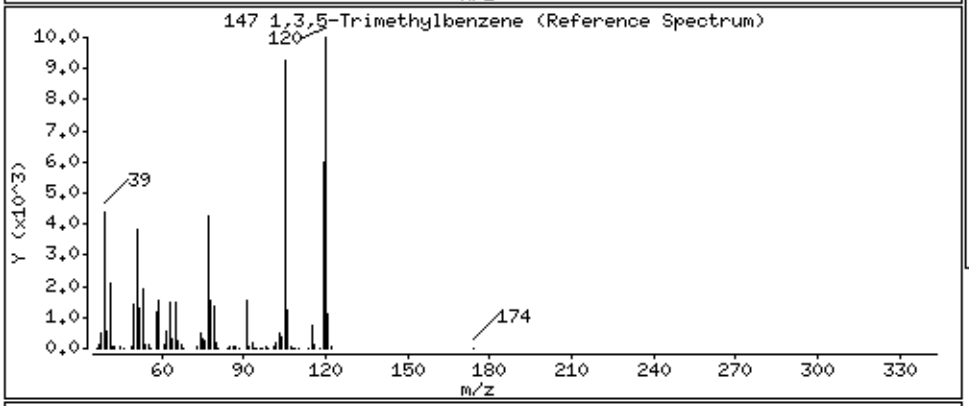
Concentration: 208.85 PPBV

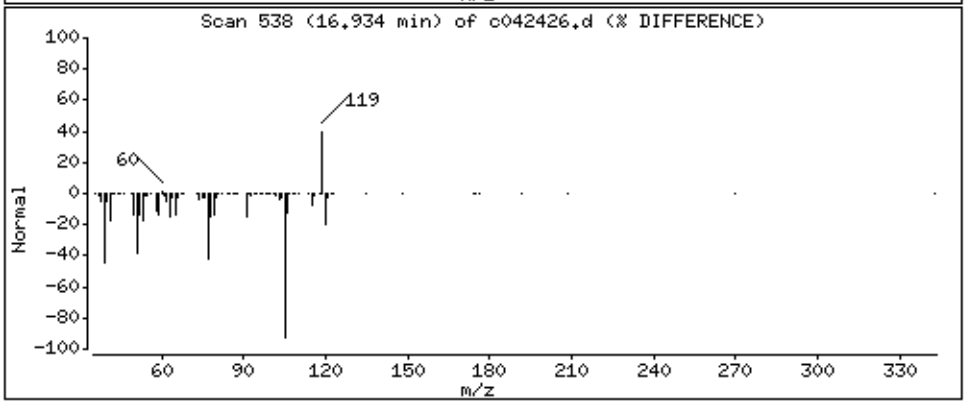












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

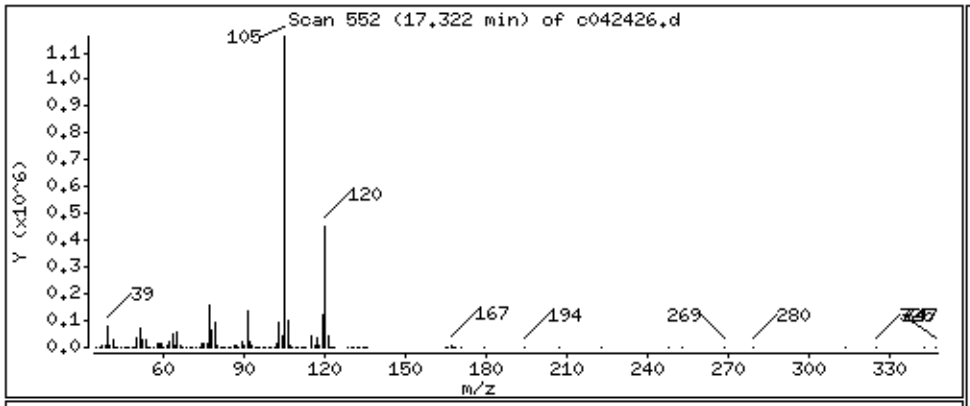
Operator: JP

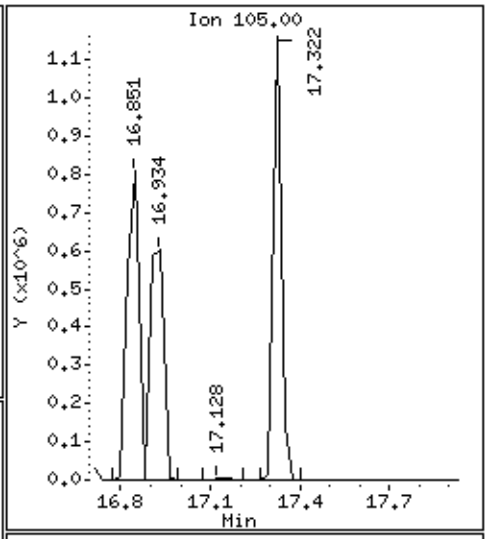
Column phase: RTx-624

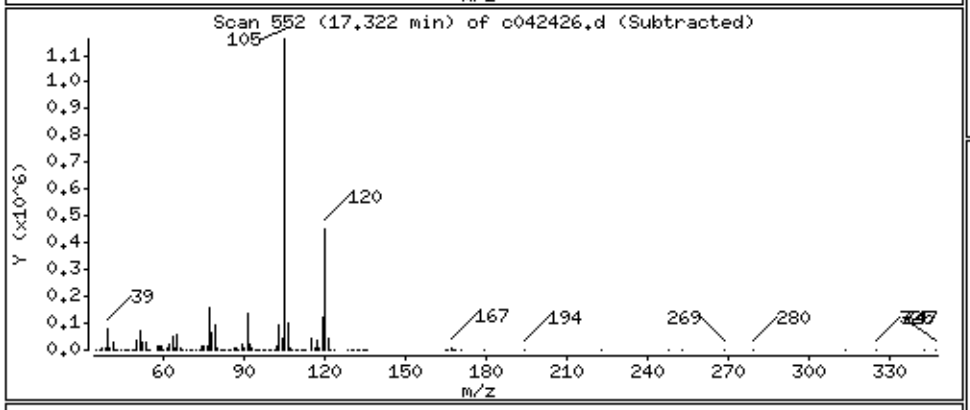
Column diameter: 0.53

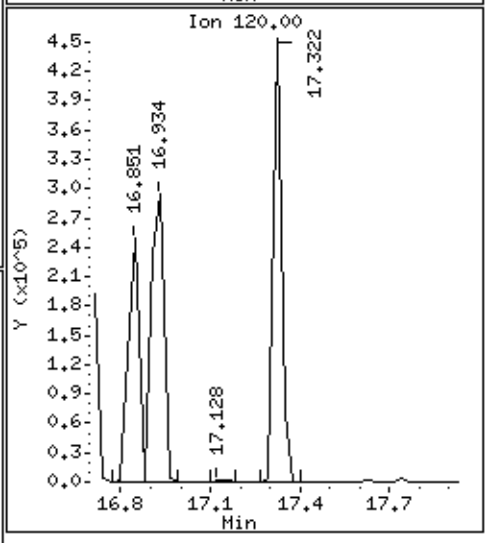
152 1,2,4-Trimethylbenzene

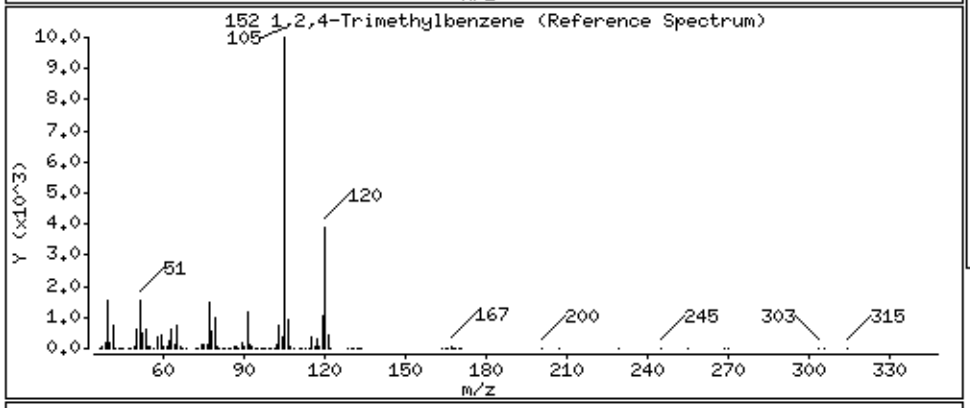
Concentration: 208.73 PPBV

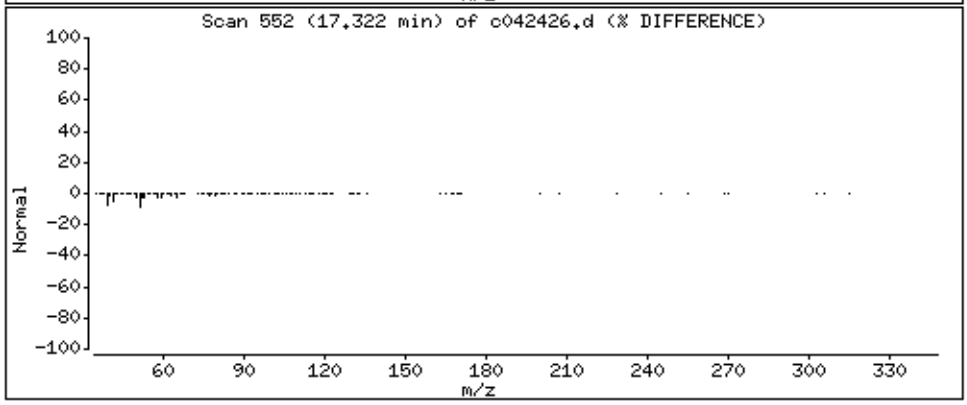












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

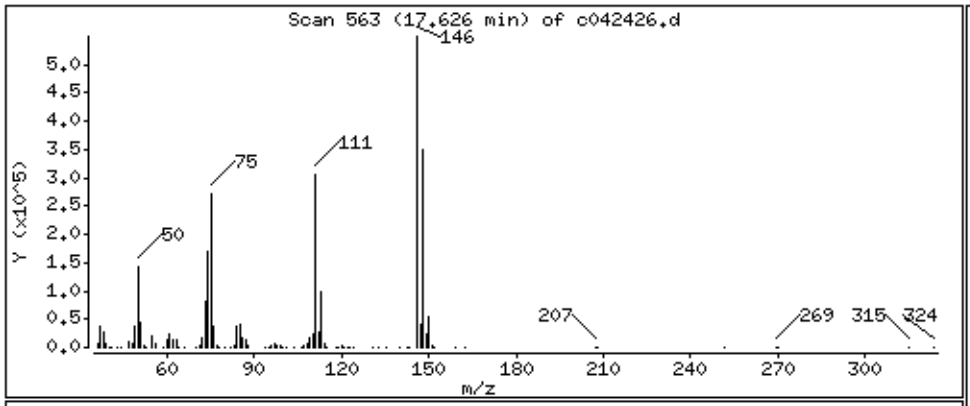
Operator: JP

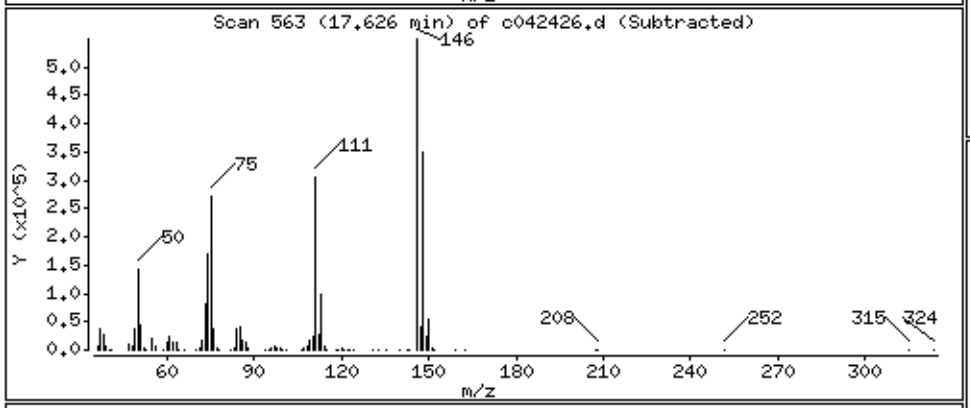
Column phase: RTx-624

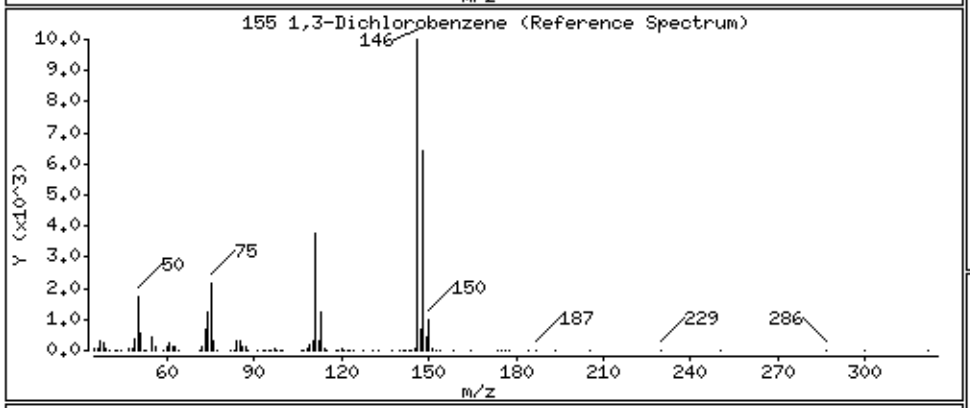
Column diameter: 0.53

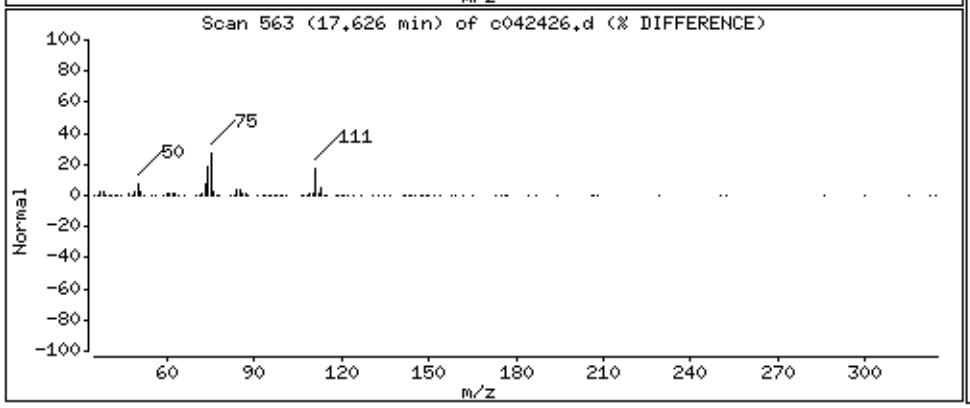
155 1,3-Dichlorobenzene

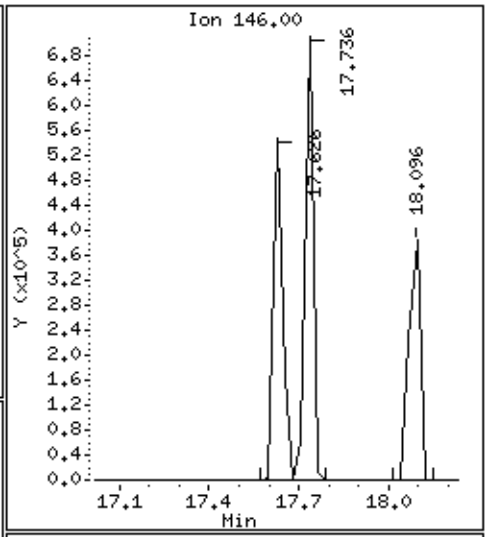
Concentration: 198.36 PPBV

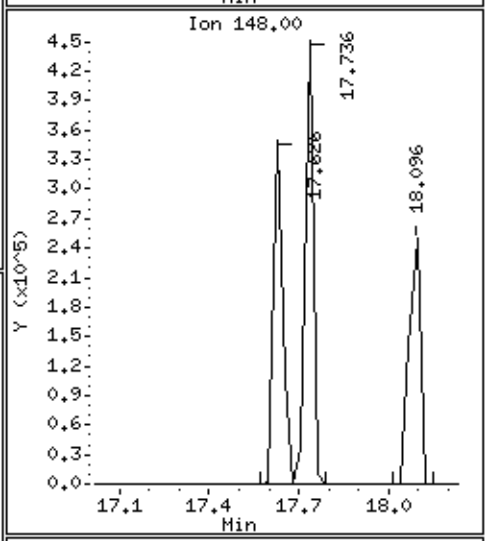


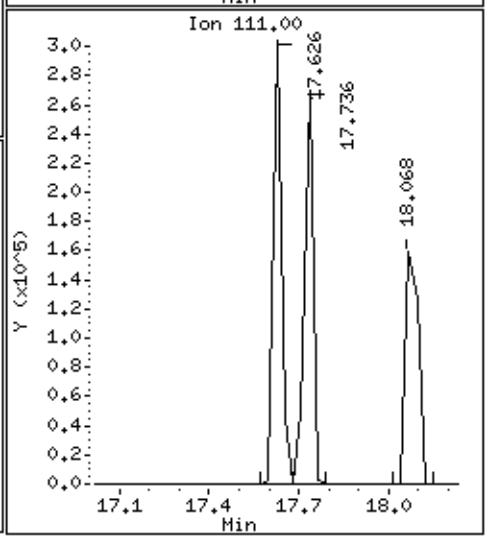












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

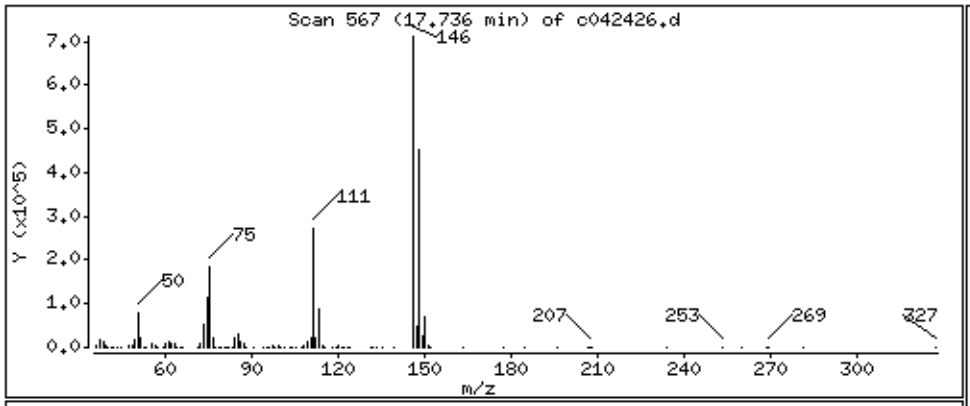
Operator: JP

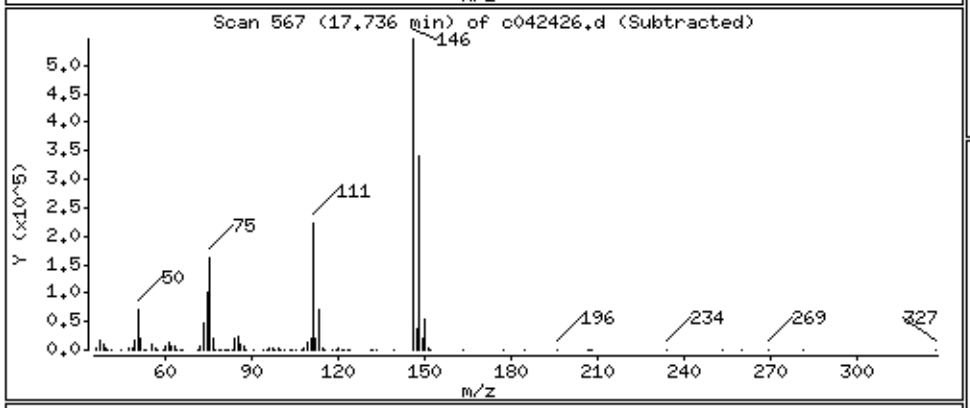
Column phase: RTx-624

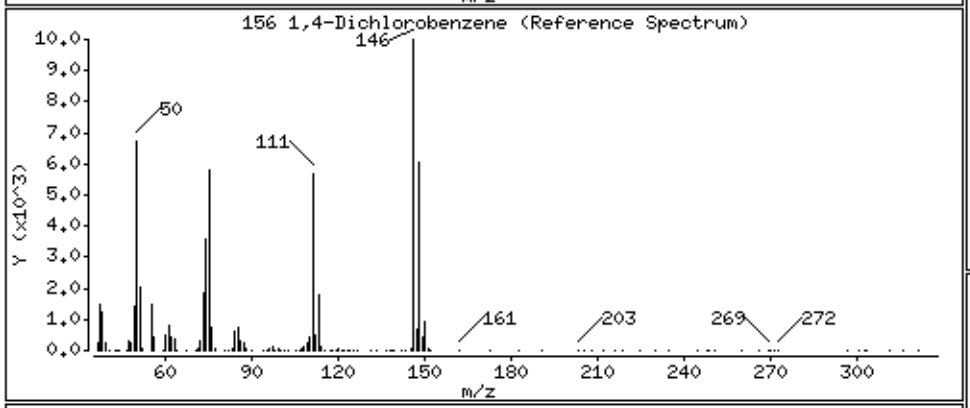
Column diameter: 0.53

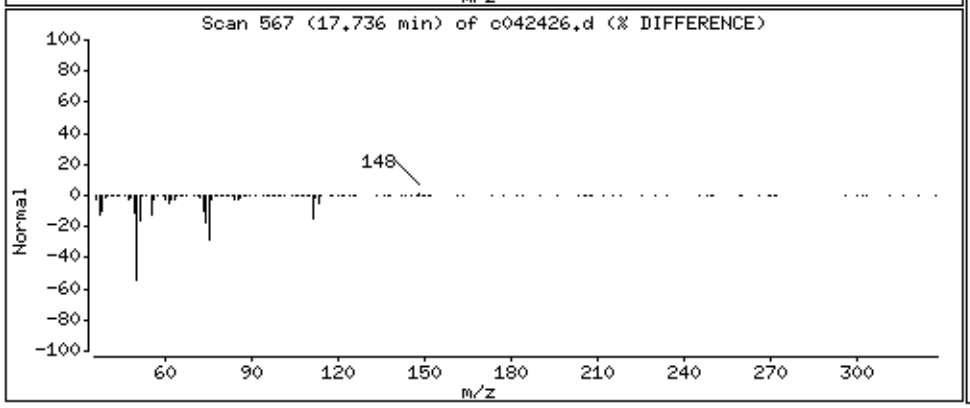
156 1,4-Dichlorobenzene

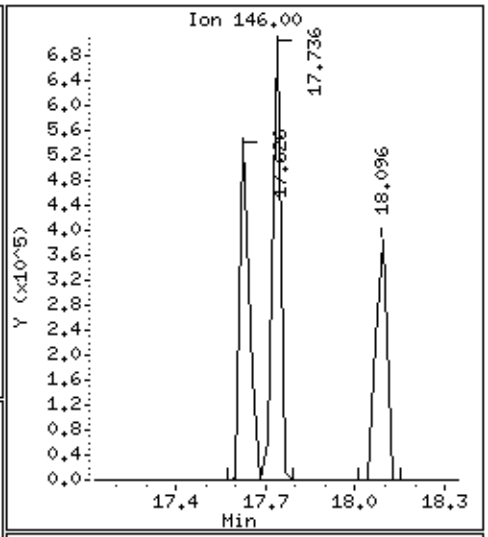
Concentration: 202.57 PPBV

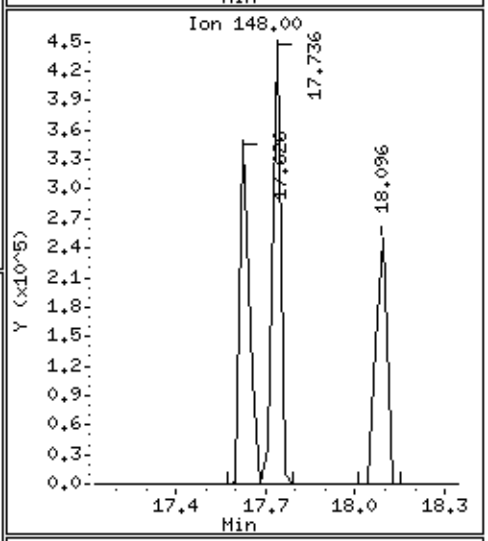


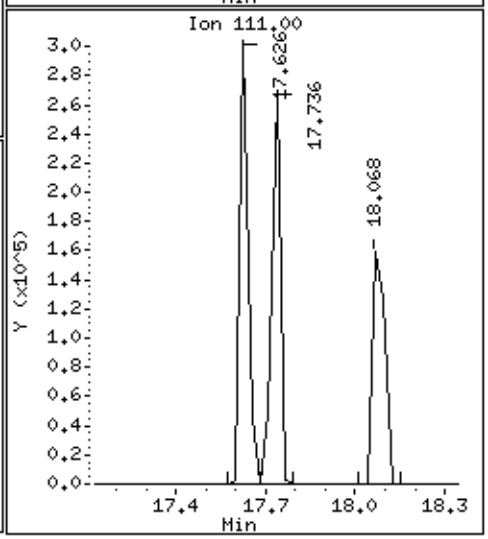












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

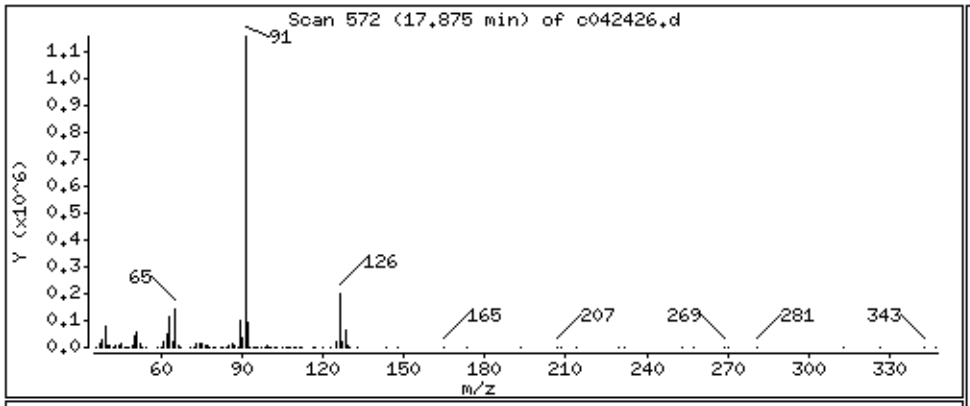
Operator: JP

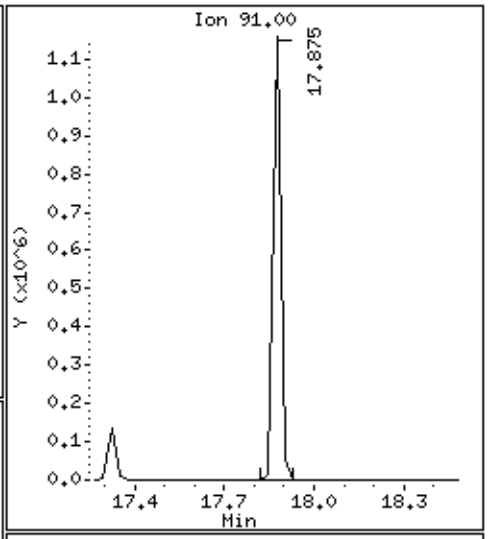
Column phase: RTx-624

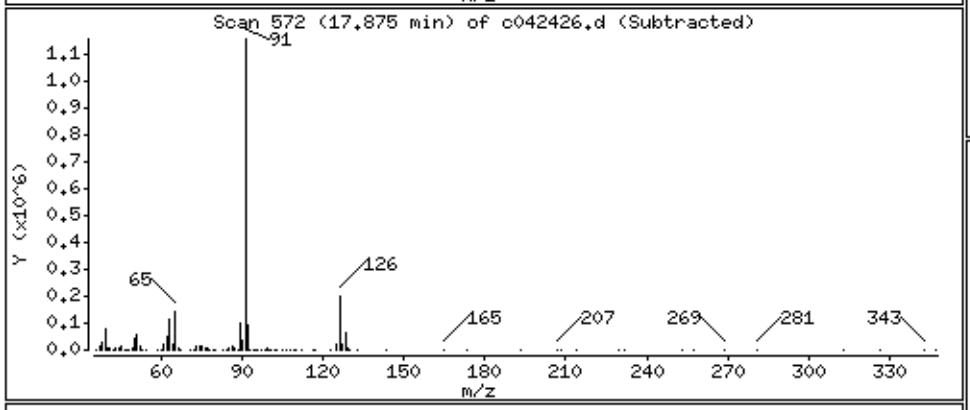
Column diameter: 0.53

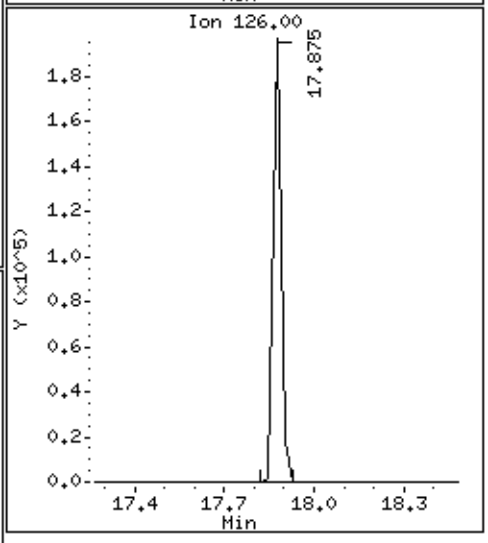
157 alpha-Chlorotoluene

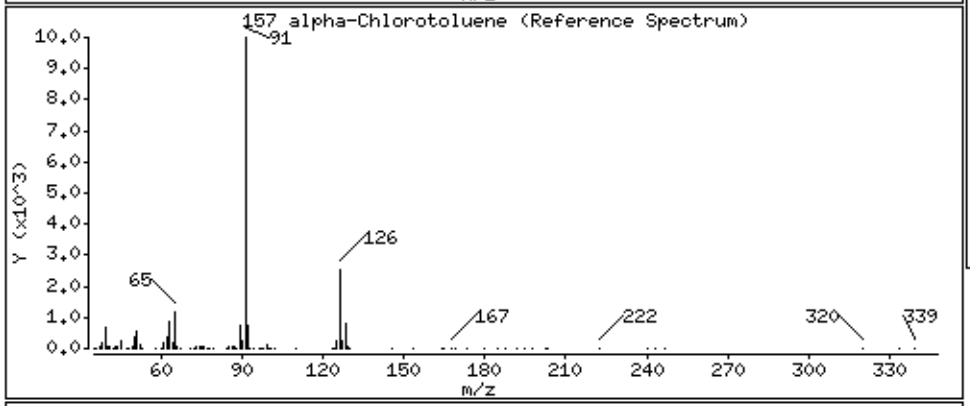
Concentration: 223.96 PPBV

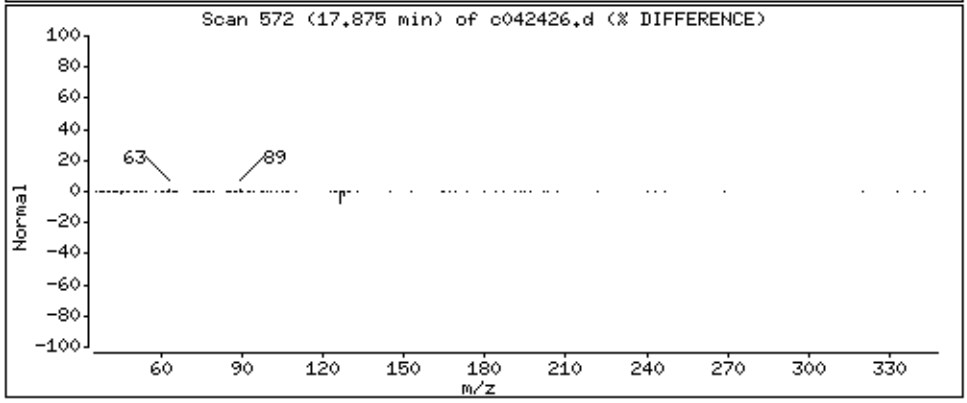












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

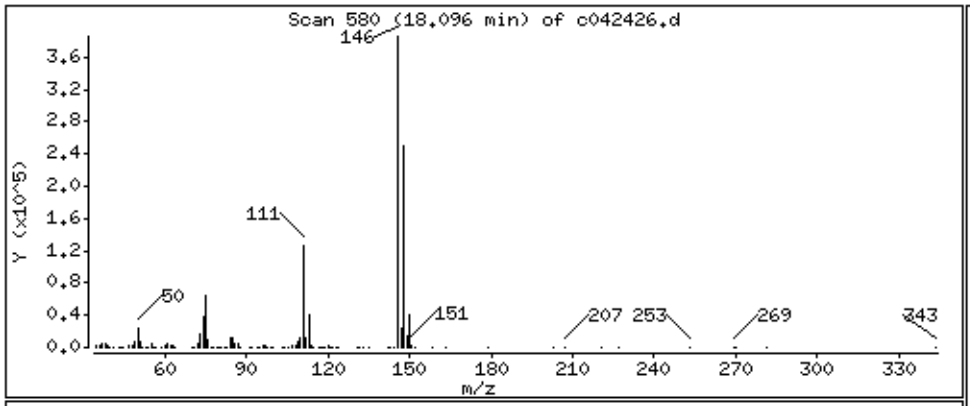
Operator: JP

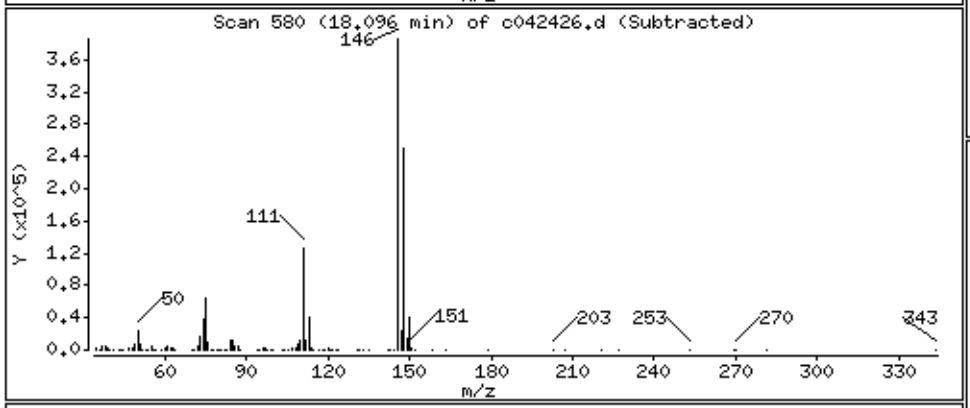
Column phase: RTx-624

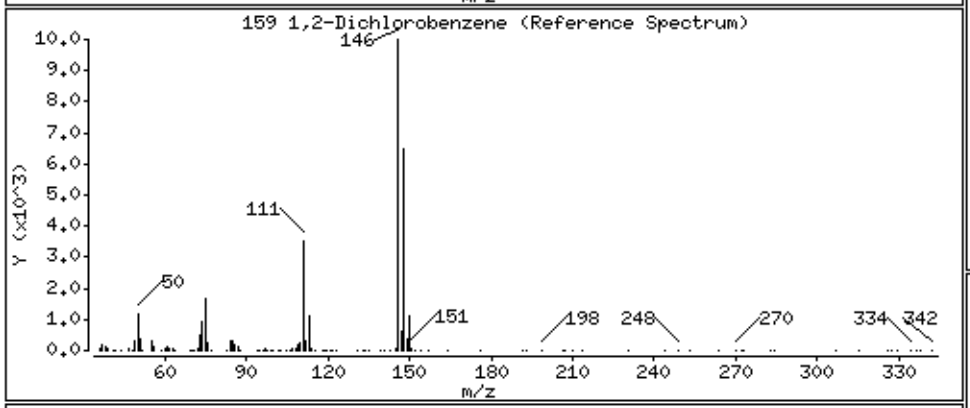
Column diameter: 0.53

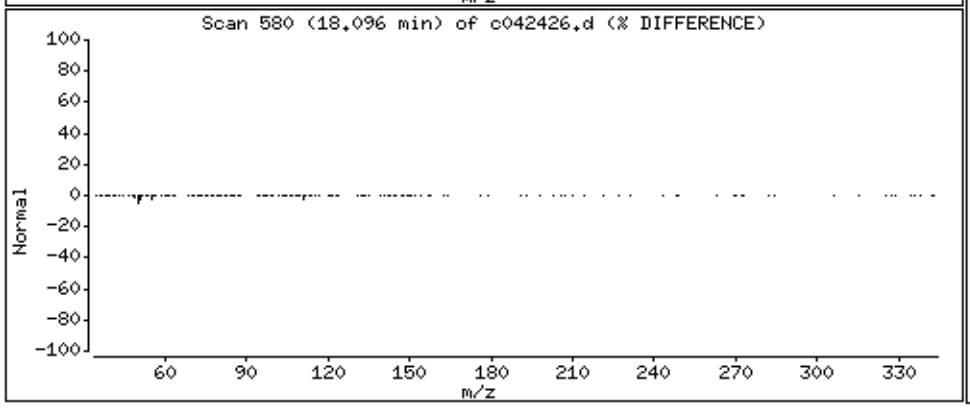
159 1,2-Dichlorobenzene

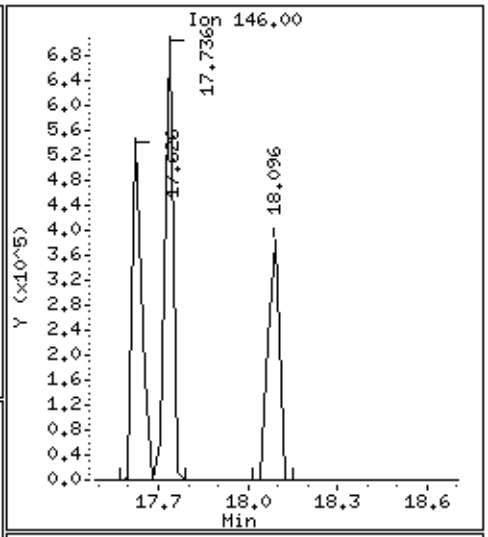
Concentration: 191.50 PPBV

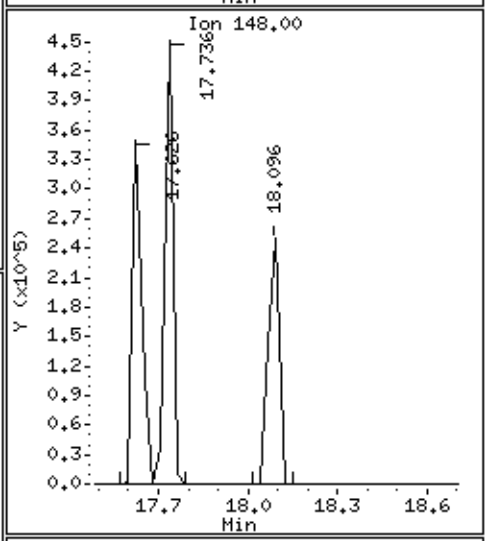


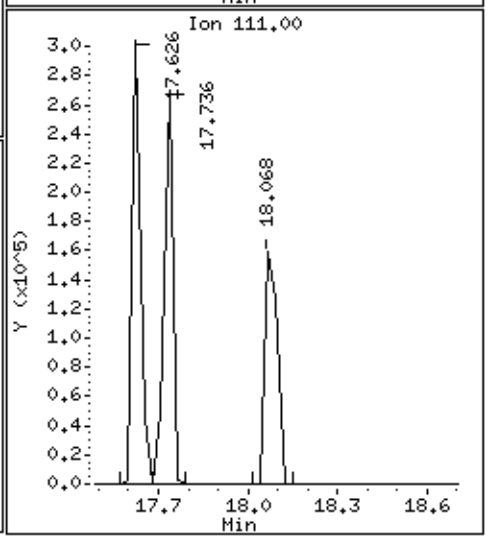












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

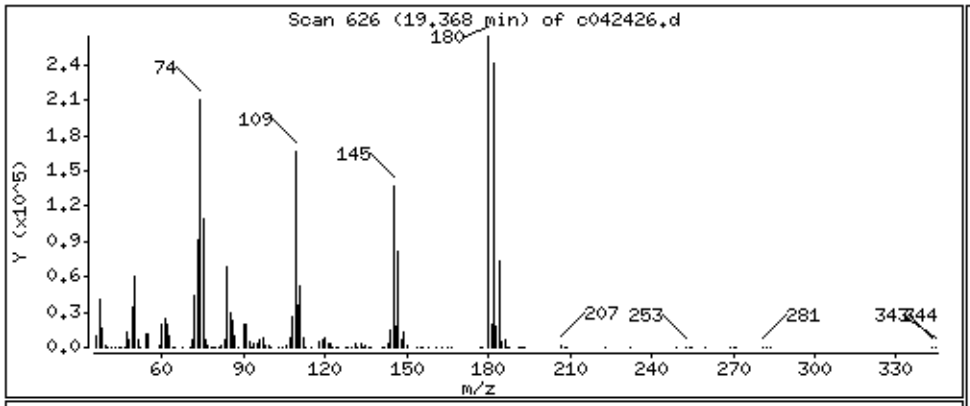
Operator: JP

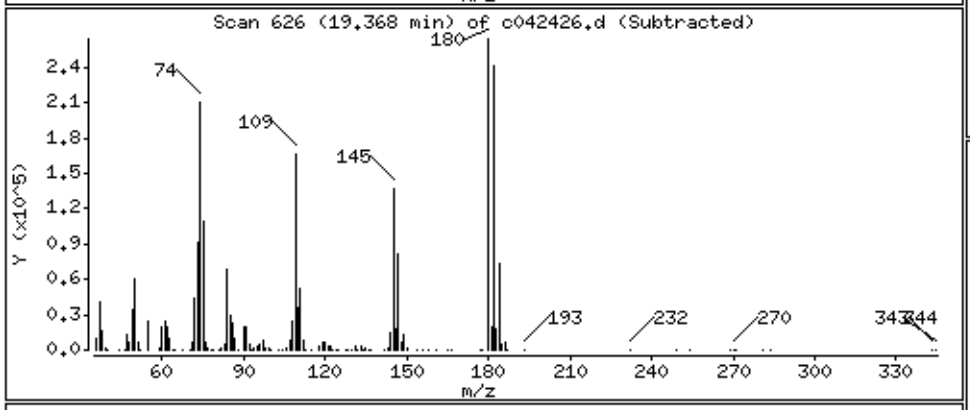
Column phase: RTx-624

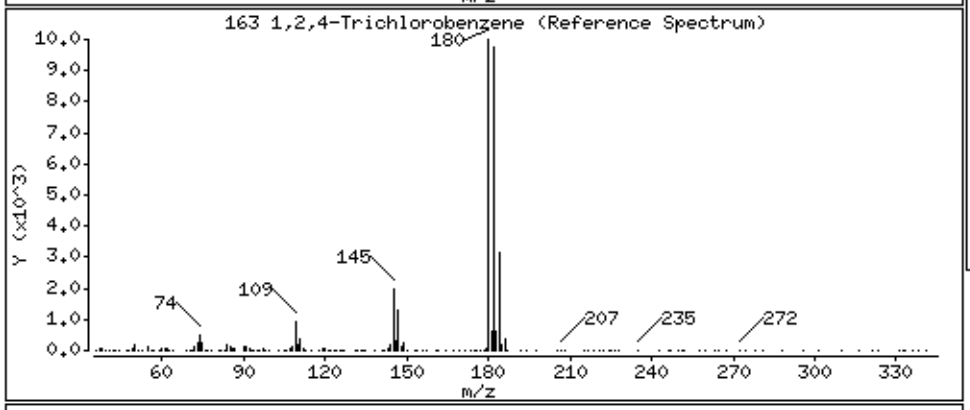
Column diameter: 0.53

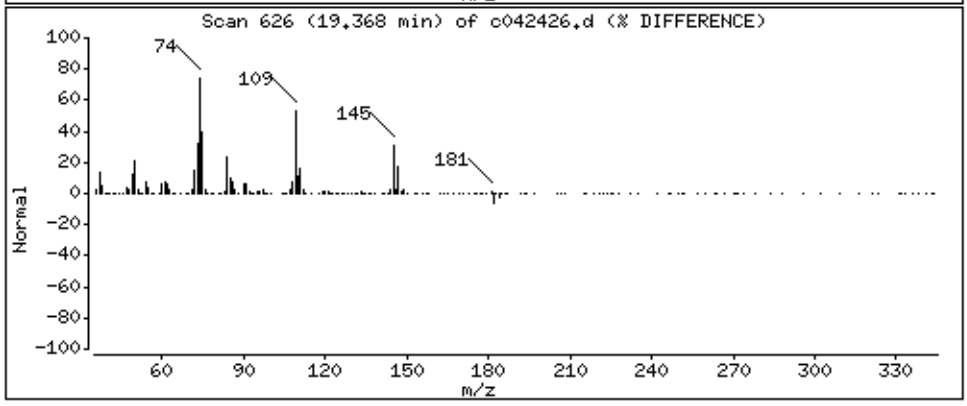
163 1,2,4-Trichlorobenzene

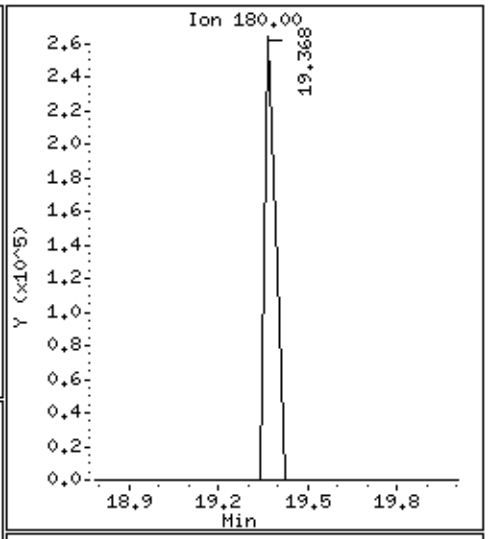
Concentration: 194.29 PPBV

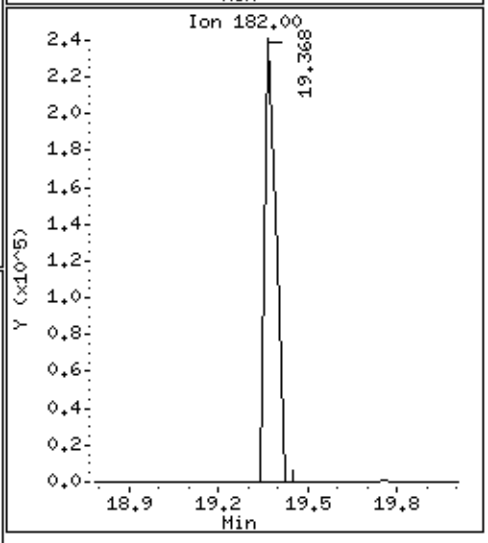












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

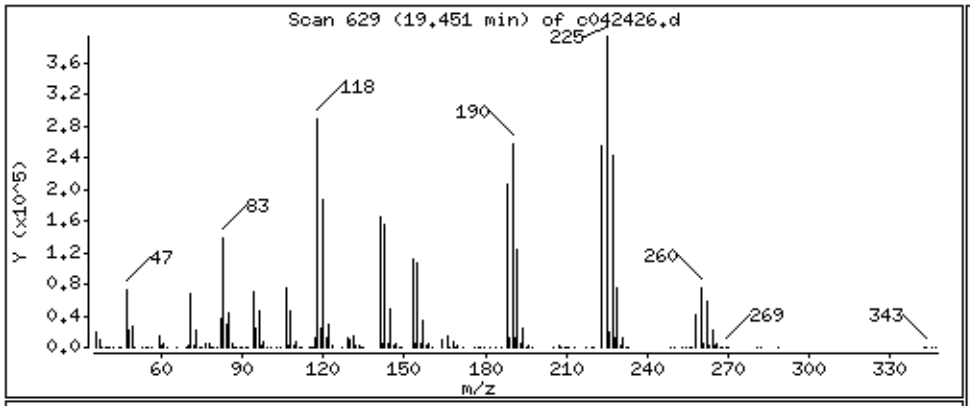
Operator: JP

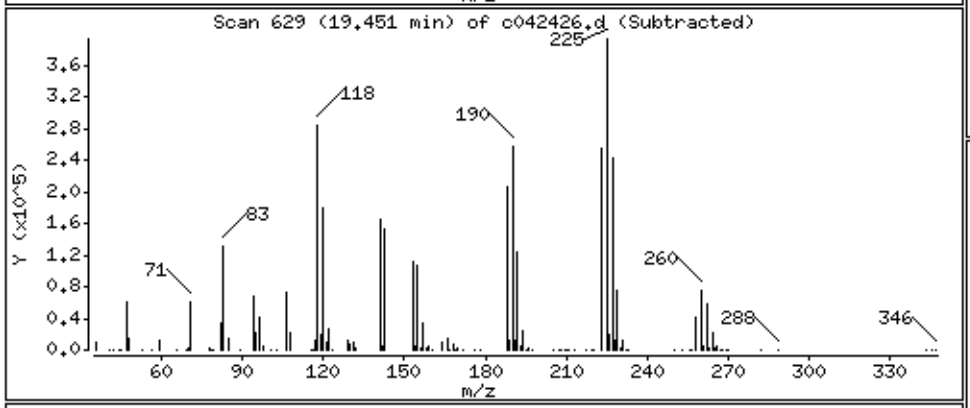
Column phase: RTx-624

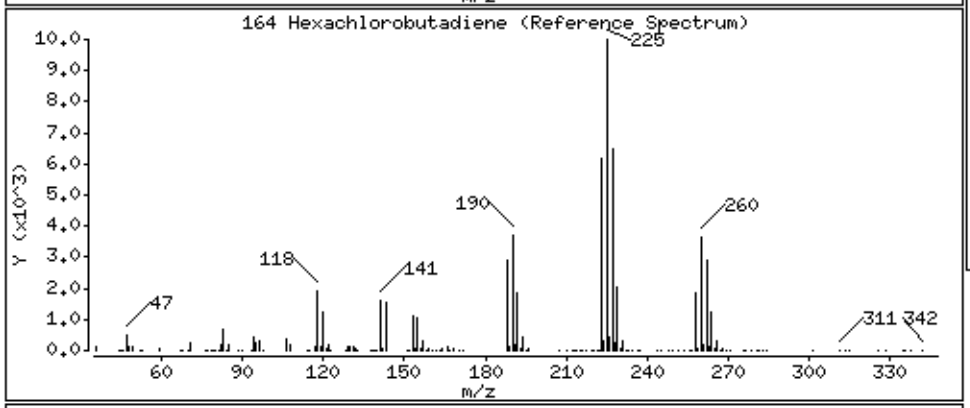
Column diameter: 0.53

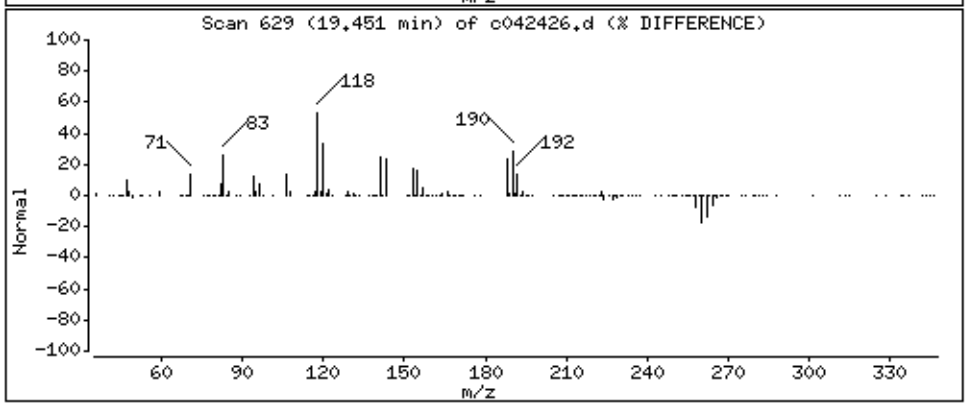
164 Hexachlorobutadiene

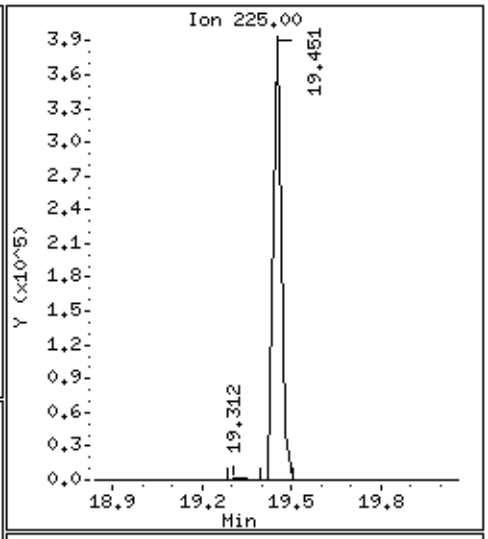
Concentration: 208.62 PPBV

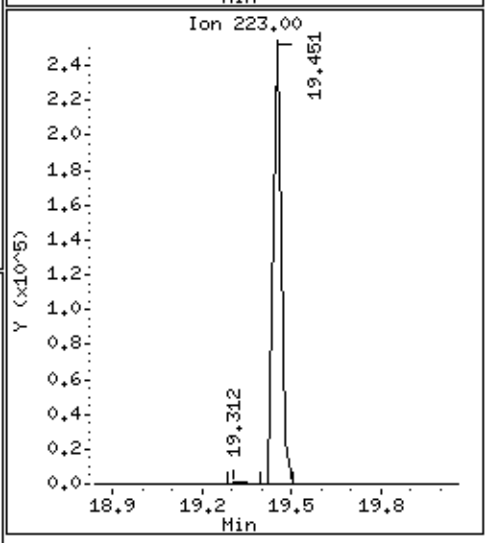












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

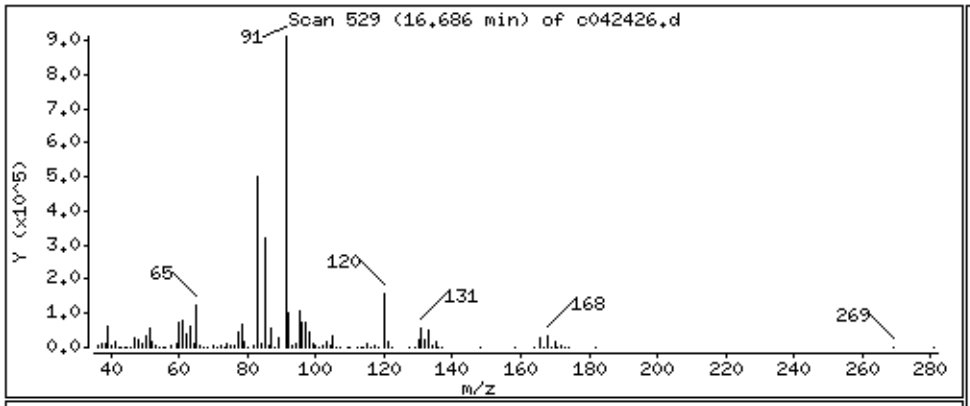
Operator: JP

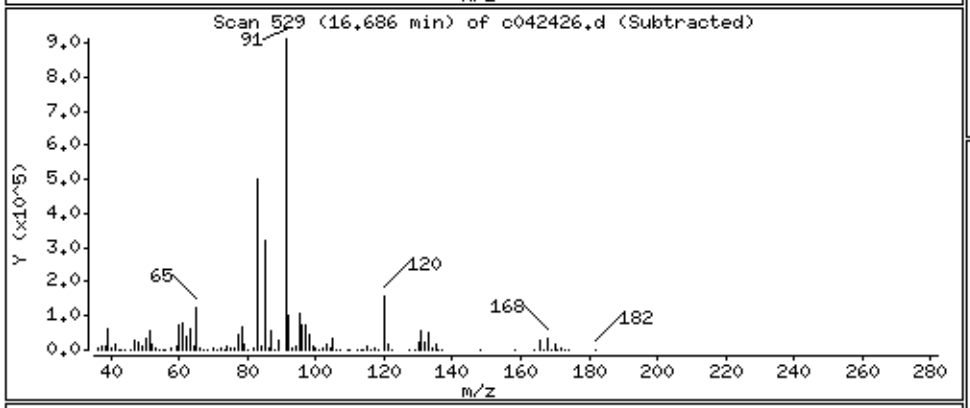
Column phase: RTx-624

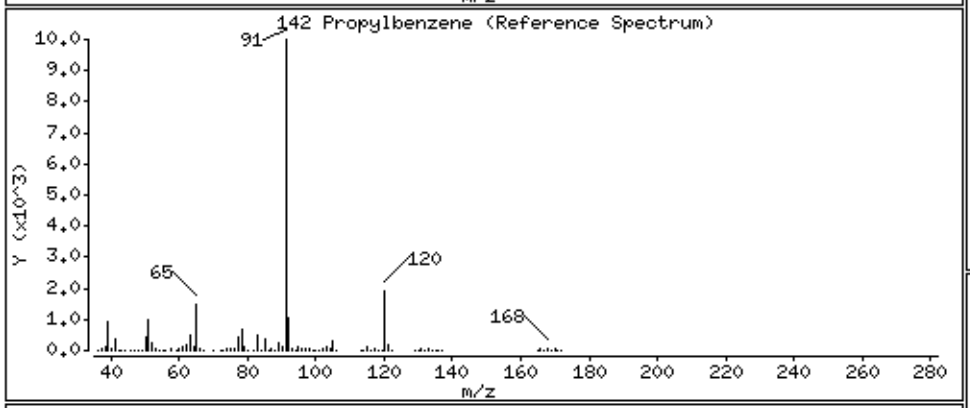
Column diameter: 0.53

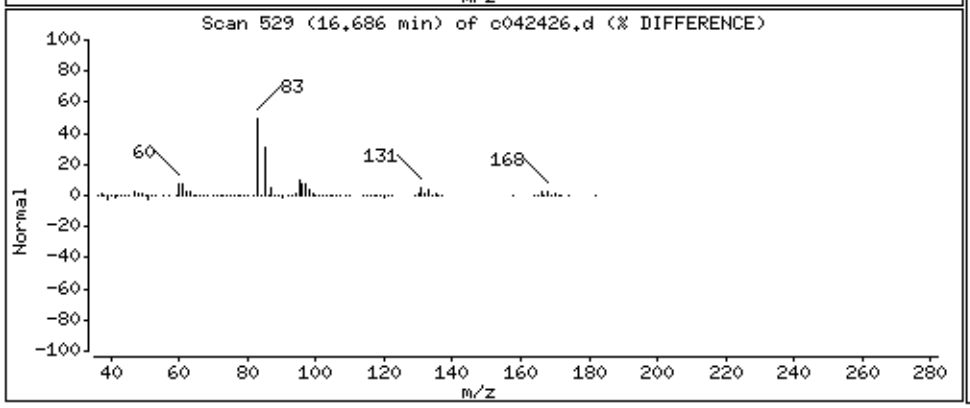
142 Propylbenzene

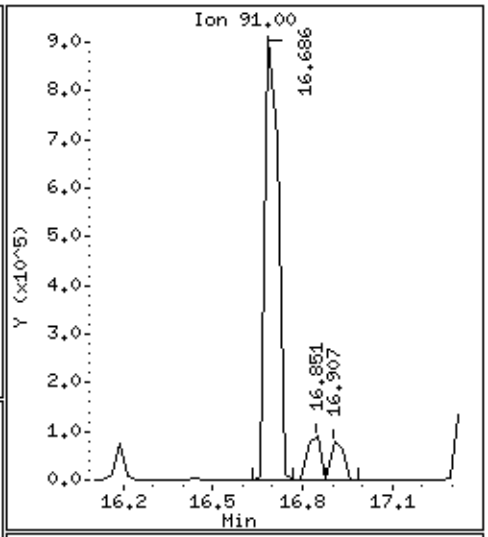
Concentration: 199.50 PPBV

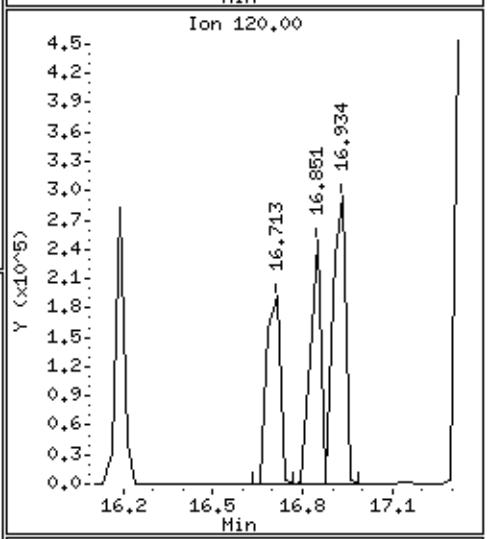


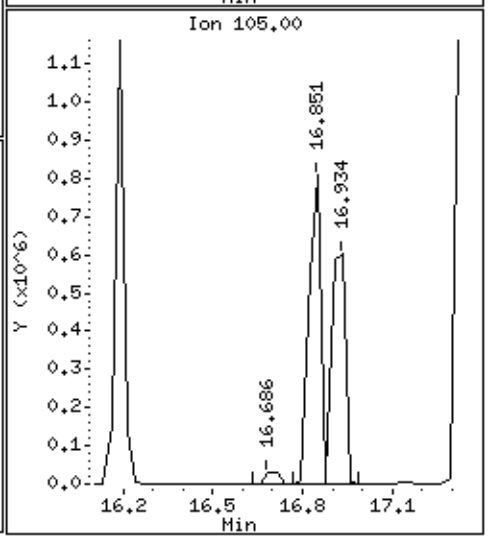












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

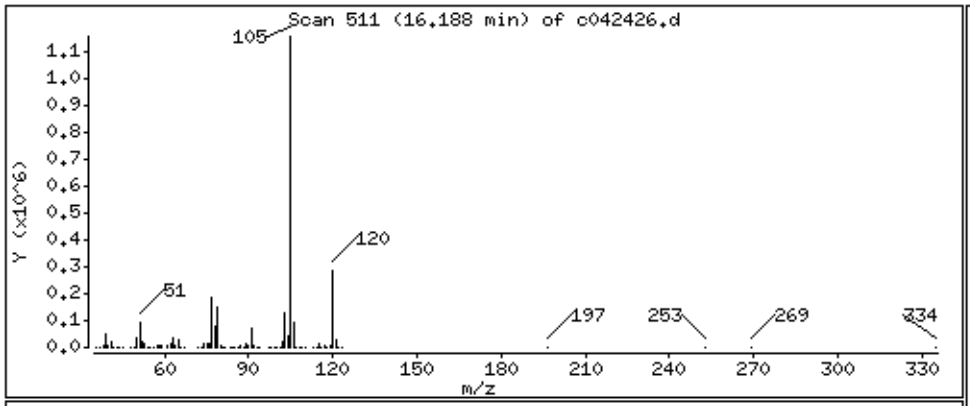
Operator: JP

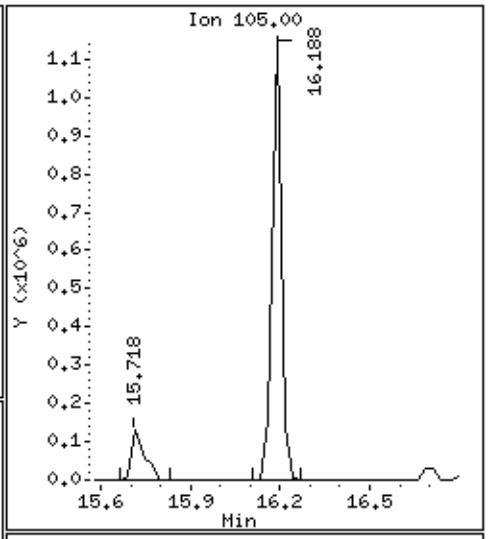
Column phase: RTx-624

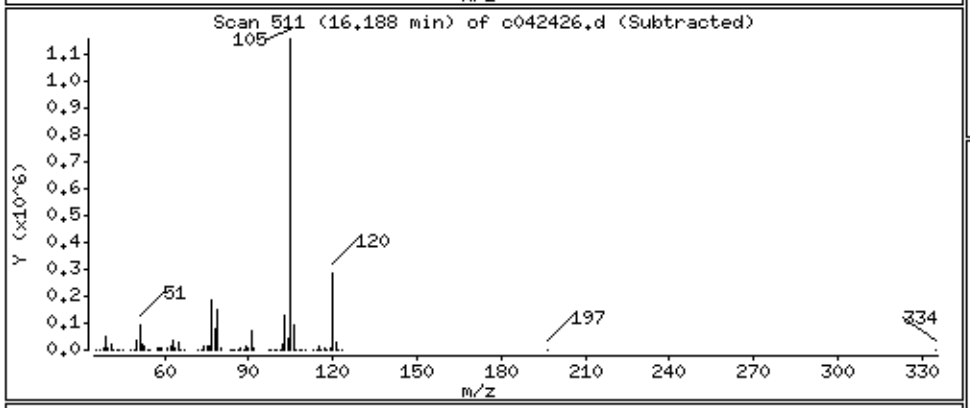
Column diameter: 0.53

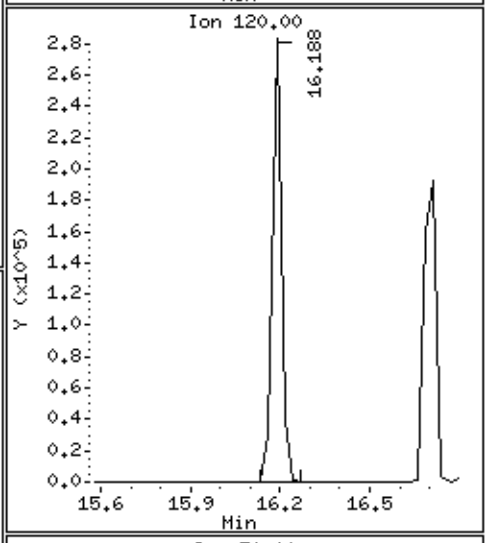
136 Cumene

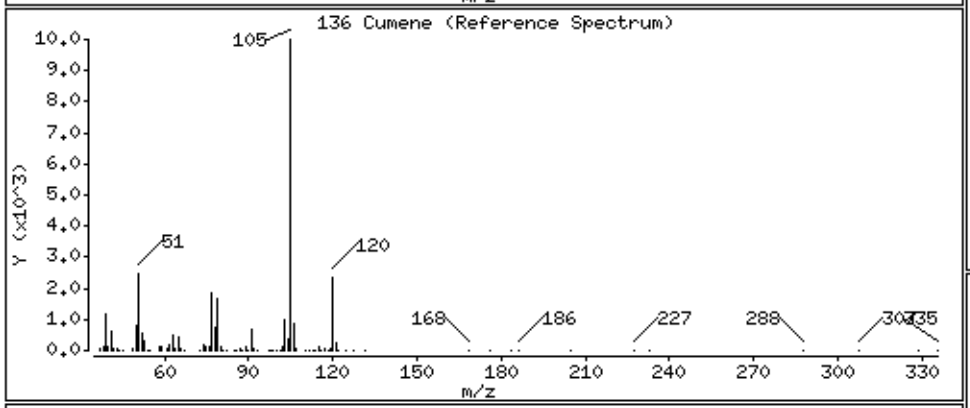
Concentration: 209.73 PPBV

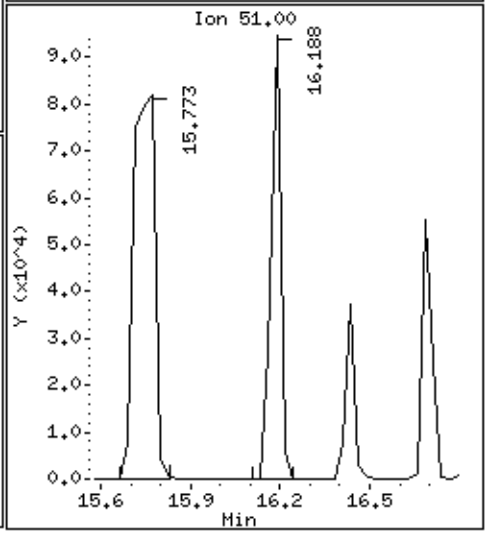


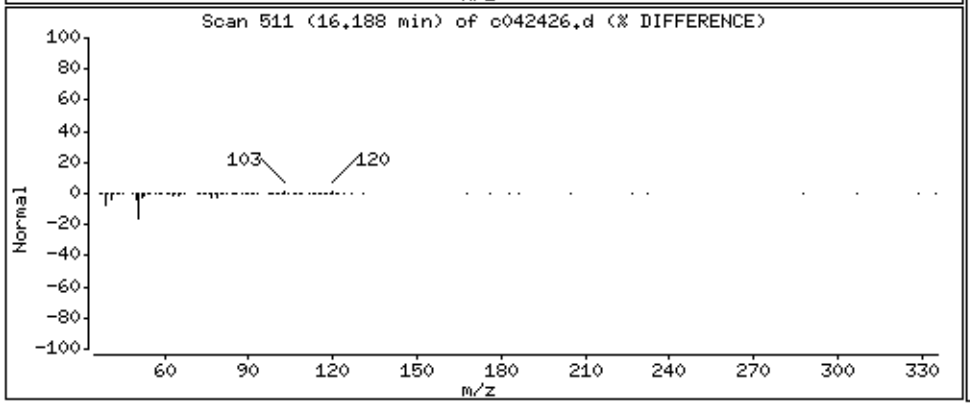












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

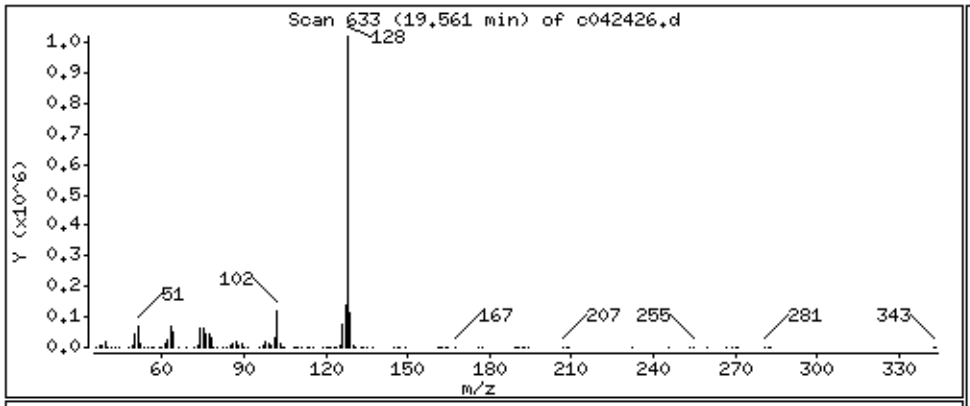
Operator: JP

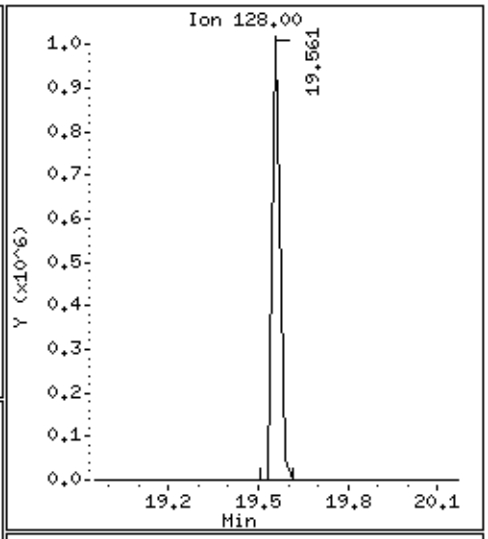
Column phase: RTx-624

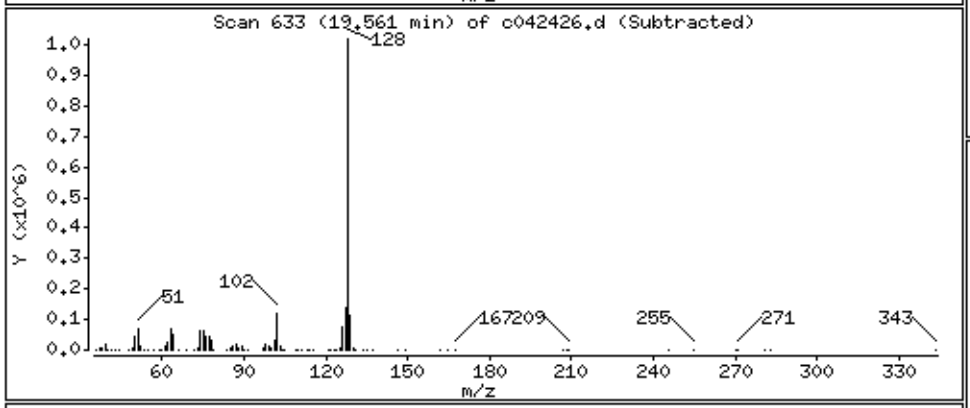
Column diameter: 0.53

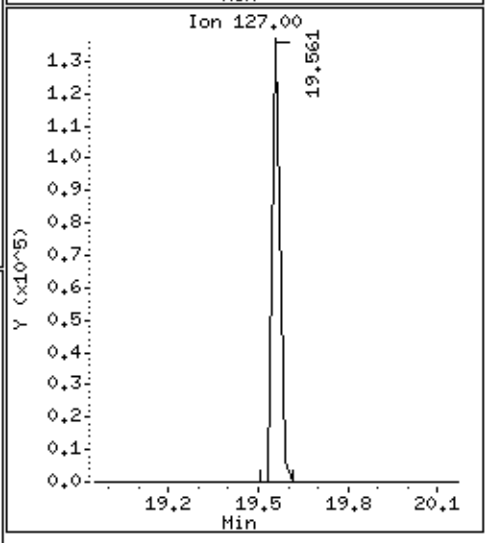
165 Naphthalene

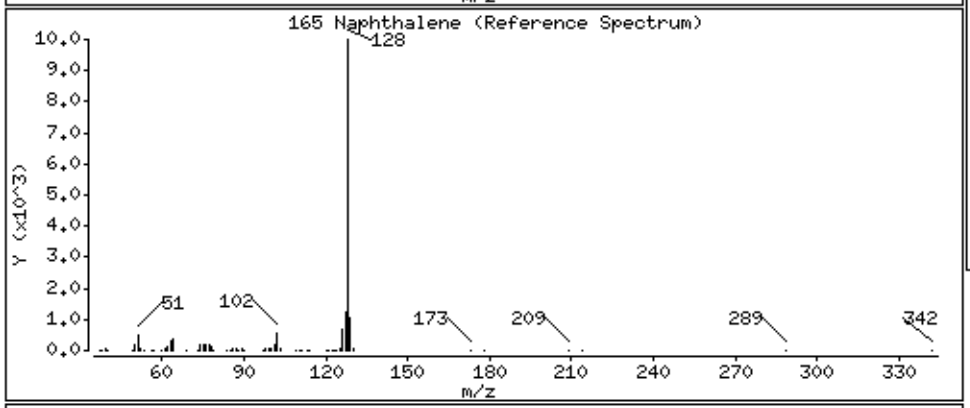
Concentration: 234.05 PPBV

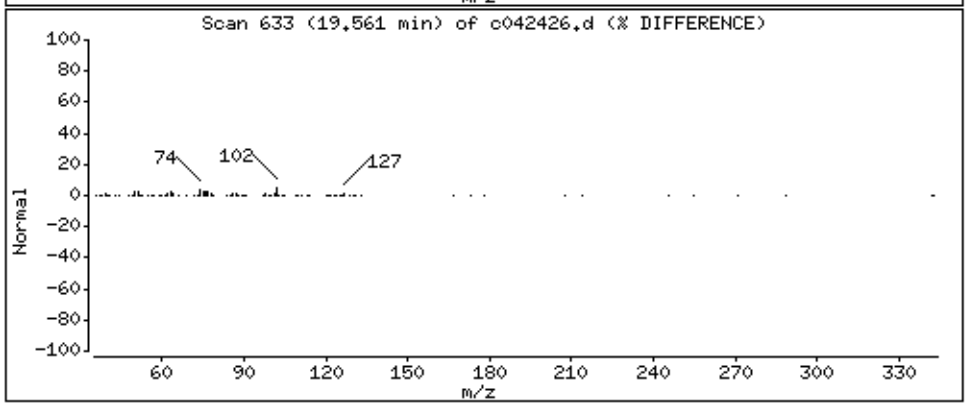












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

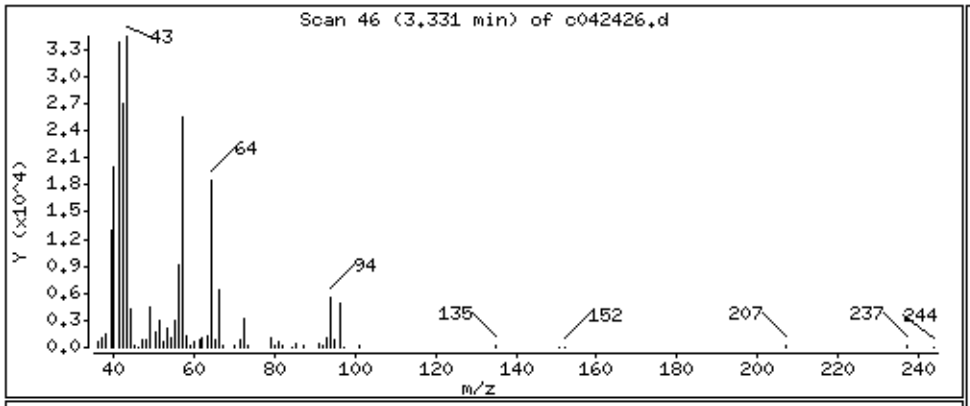
Operator: JP

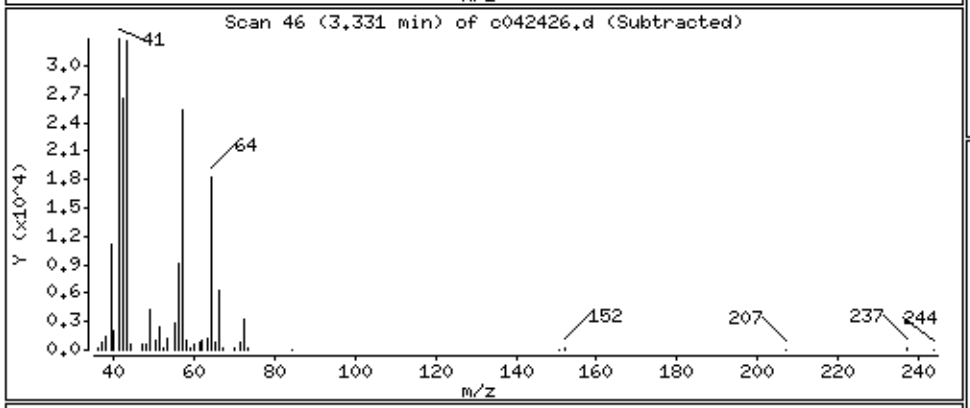
Column phase: RTx-624

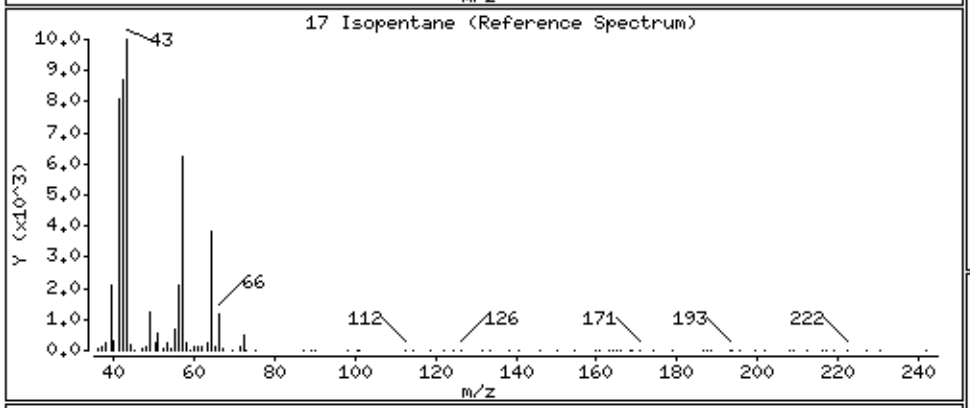
Column diameter: 0.53

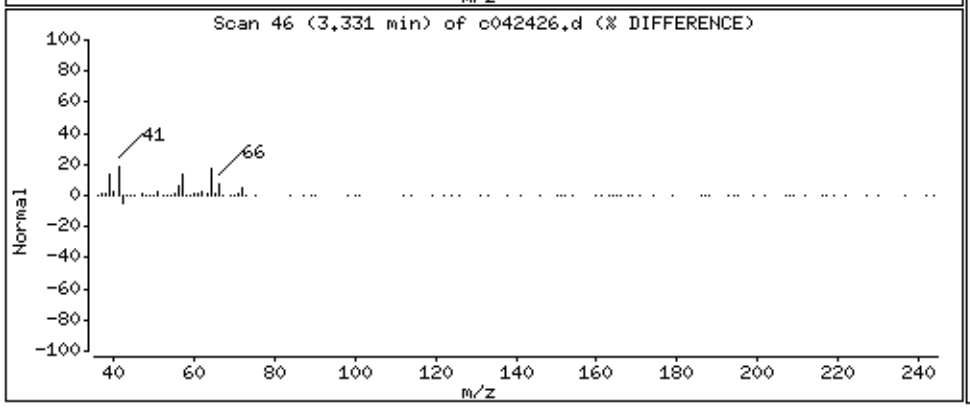
17 Isopentane

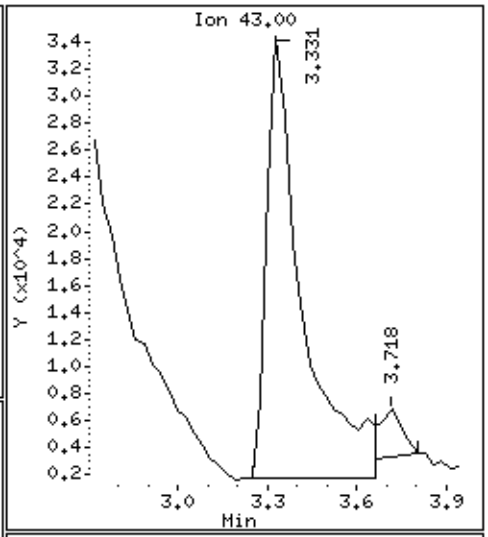
Concentration: 167.49 PPBV

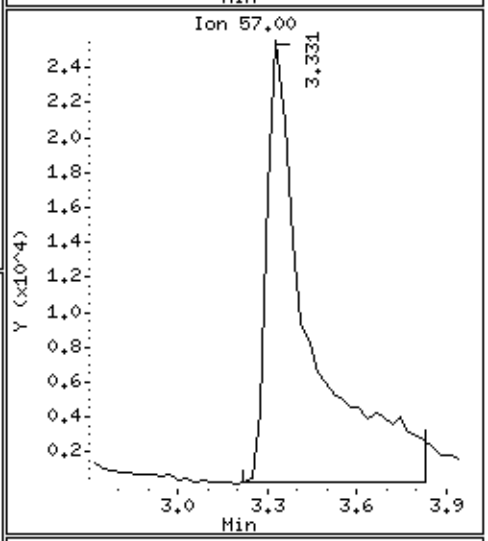


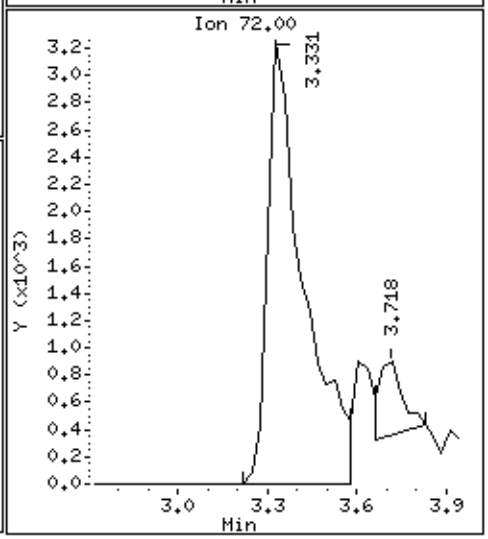












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

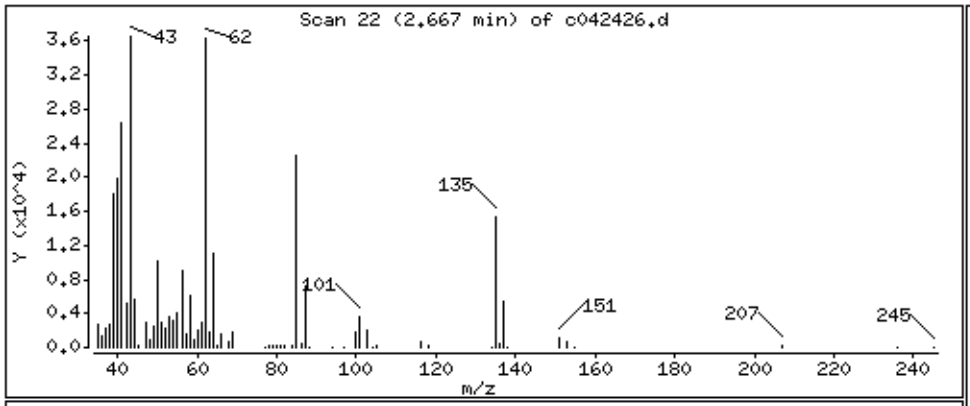
Operator: JP

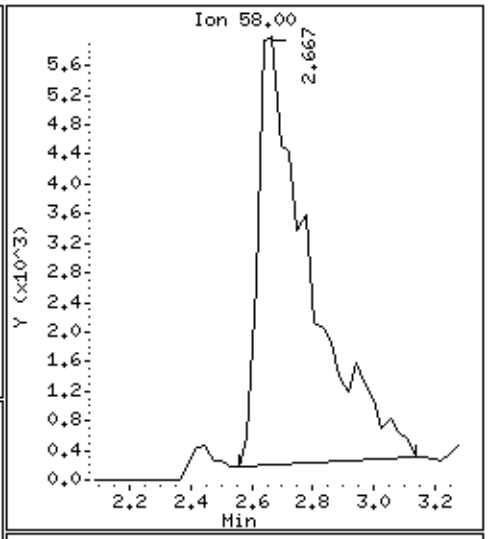
Column phase: RTx-624

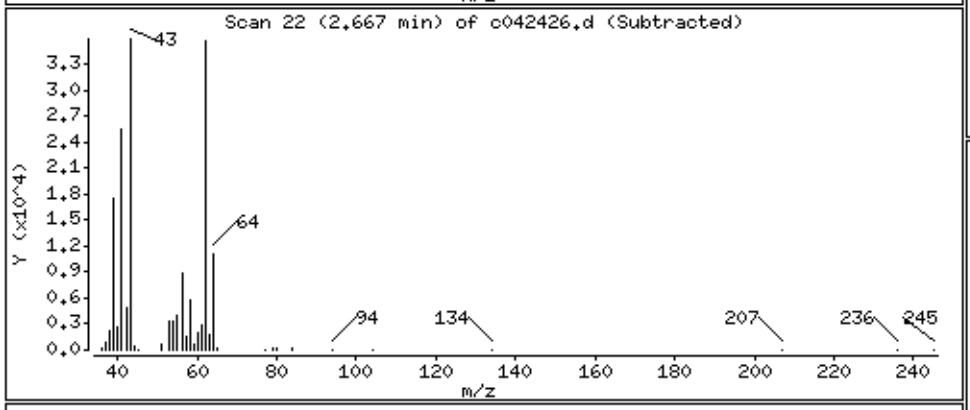
Column diameter: 0.53

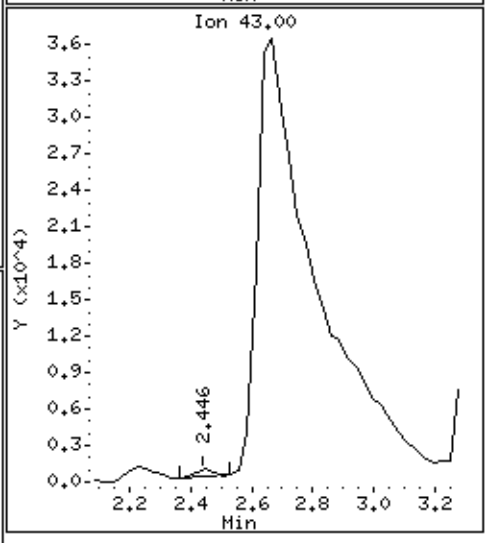
11 Butane

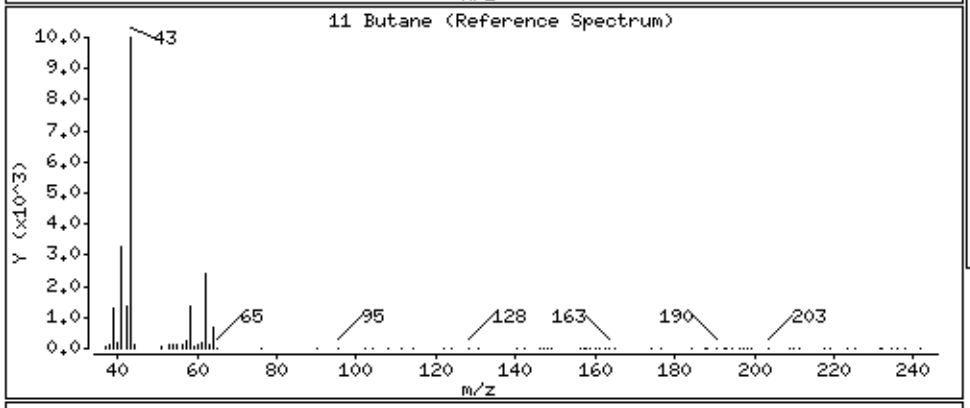
Concentration: 176.82 PPBV

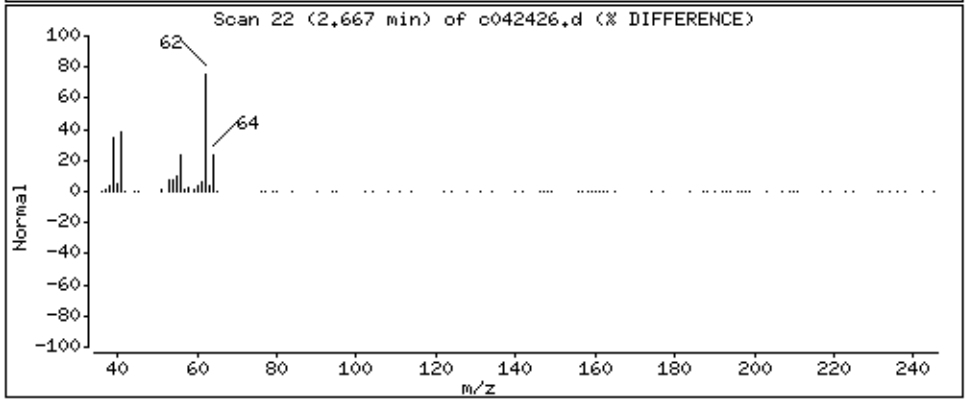












Data File: /chem/msdc.i/24Apr2008.b/c042426.d

Date : 25-APR-2008 00:05

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

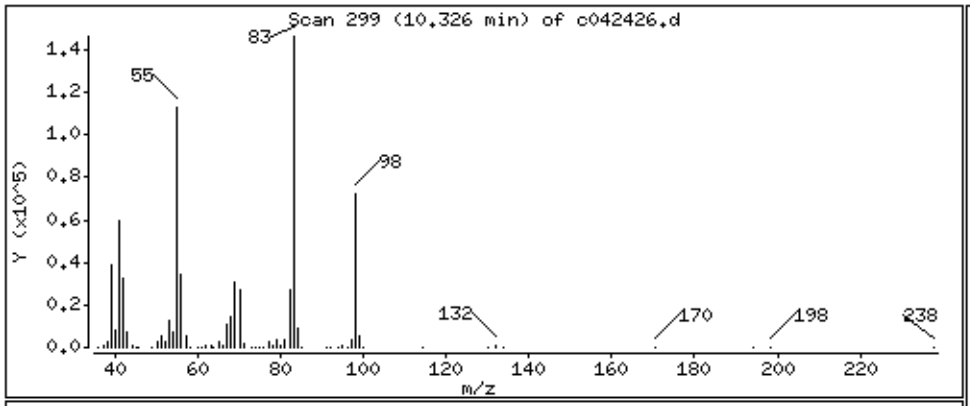
Operator: JP

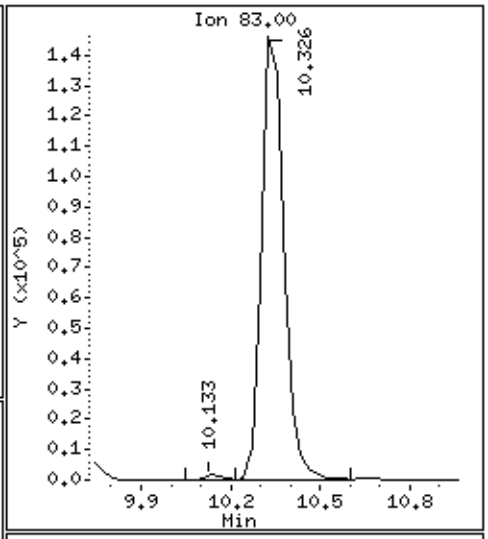
Column phase: RTx-624

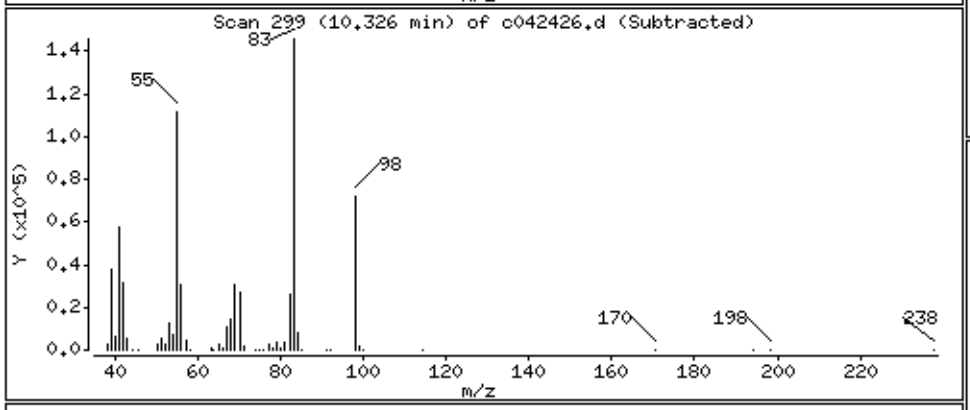
Column diameter: 0.53

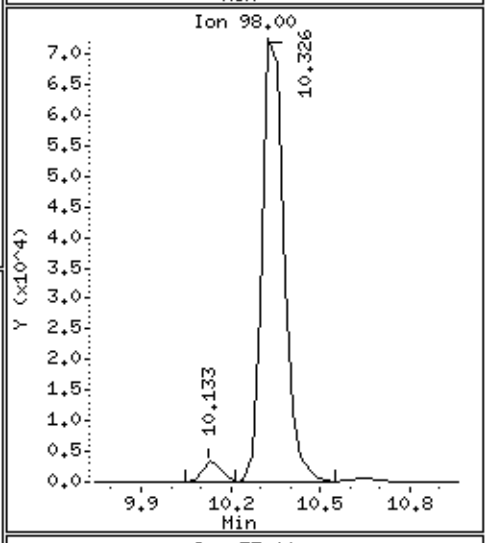
94 Methyl Cyclohexane

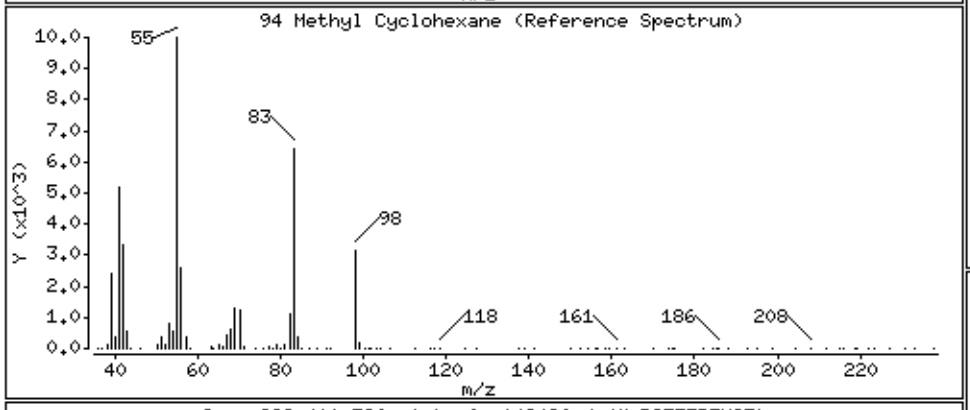
Concentration: 193.04 PPBV

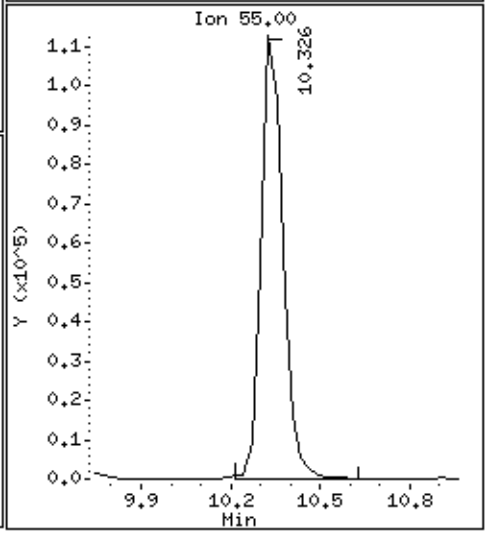


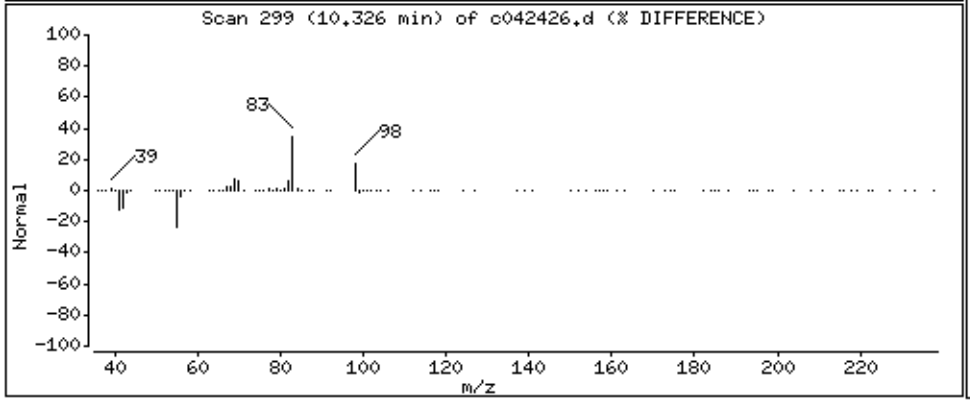












Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042412.d
Lab Smp Id: 1544-83 Client Smp ID: Level1
Inj Date : 24-APR-2008 13:36
Operator : ly Inst ID: msdc.i
Smp Info : 7.5mL,35621
Misc Info : 20ppbv>3ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:19 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 13:36 Cal File: c042412.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzene.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane						CAS #: 74-97-5	
7.921	7.921 (1.000)	130	407807	400.000		70.00- 130.00	100.00
7.921	7.921 (1.000)	128	318934			48.74- 108.74	78.21
7.921	7.921 (1.000)	49	486608			89.05- 149.05	119.32
* 92 1,4-Difluorobenzene						CAS #: 540-36-3	
9.746	9.746 (1.000)	114	1865234	400.000		70.00- 130.00	100.00
9.746	9.746 (1.000)	88	328428			0.00- 47.75	17.61
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.861	14.861 (1.000)	117	1535960	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	988072			0.00- 30.00	64.33
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
8.972	8.972 (1.133)	65	773105	400.000	389.24	70.00- 130.00	100.00
8.972	8.972 (1.133)	67	364613			0.00- 30.00	47.16
$ 107 Toluene-d8						CAS #: 2037-26-5	
12.511	12.511 (1.284)	98	1824462	400.000	392.28	70.00- 130.00	100.00
12.511	12.511 (1.284)	70	217793			0.00- 30.00	11.94

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	======	========	====	========	=======	=======	==========	=====
$ 107 Toluene-d8 (continued)								
12.511	12.511	(1.284)	100	1130255			0.00- 30.00	61.95
$ 138 Bromofluorobenzene						CAS #: 460-00-4		
16.437	16.437	(1.106)	174	970870	400.000	396.57	70.00- 130.00	100.00
16.437	16.437	(1.106)	95	1443845			118.92- 178.92	148.72
16.437	16.437	(1.106)	176	941601			66.54- 126.54	96.99
81 Benzene						CAS #: 71-43-2		
8.916	8.916	(0.915)	78	16841	3.00000	2.749	70.00- 130.00	100.00
8.916	8.916	(0.915)	77	4448			0.00- 30.00	26.42

Report Date: 25-Apr-2008 15:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042412.d
Lab Smp Id: 1544-83
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 20ppbv>3ppbv

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: Level1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	407807	-1.65
92 1,4-Difluorobenze	1880051	1128031	2632071	1865234	-0.79
125 Chlorobenzene-d5	1629476	977686	2281266	1535960	-5.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

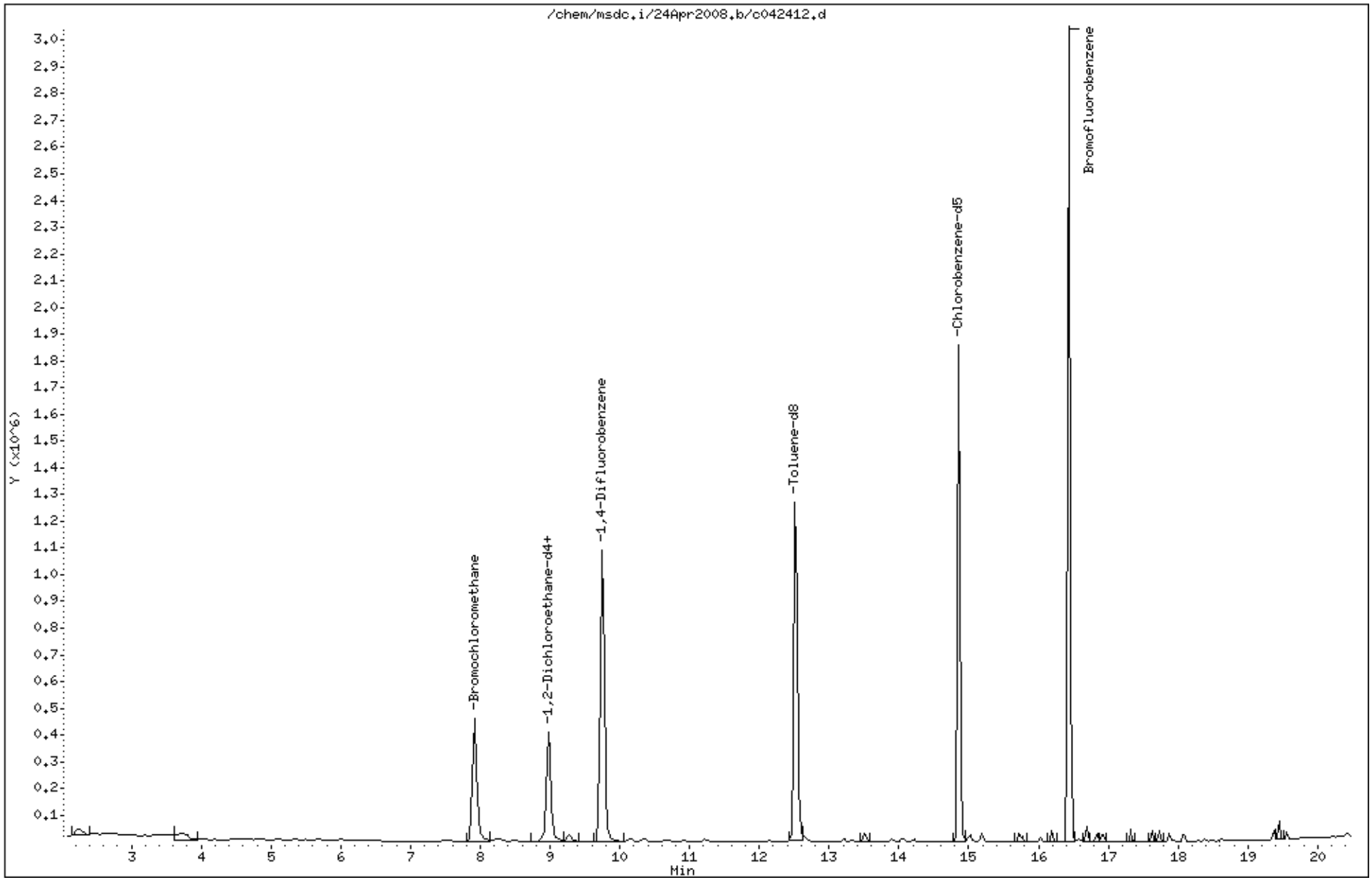
0232

Data File: /chem/msdc.i/24Apr2008.b/c042412.d
Date : 24-APR-2008 13:36
Client ID: Level1
Sample Info: 7.5mL,35621

Instrument: msdc.i

Operator: ly
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042424.d
Lab Smp Id: 1544-81C Client Smp ID: Level 2
Inj Date : 24-APR-2008 22:39
Operator : ac Inst ID: msdc.i
Smp Info : 1.25mL,31443
Misc Info : 200ppbv->5ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:52 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 22:39 Cal File: c042424.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	412608	400.000		70.00- 130.00	100.00
7.921	7.921 (1.000)	128	324308			48.74- 108.74	78.60
7.921	7.921 (1.000)	49	489050			89.05- 149.05	118.53
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1900941	400.000		70.00- 130.00	100.00
9.746	9.746 (1.000)	88	338082			0.00- 47.75	17.78
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1574641	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	979768			0.00- 30.00	62.22
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.971	8.971 (1.133)	65	756602	400.000	376.50	70.00- 130.00	100.00
8.971	8.971 (1.133)	67	372666			0.00- 30.00	49.26
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.511	12.511 (1.284)	98	1843057	400.000	388.83	70.00- 130.00	100.00
12.511	12.511 (1.284)	70	215975			0.00- 30.00	11.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.511	12.511 (1.284)	100	1158816			0.00- 30.00	62.87
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1000985	400.000	398.83	70.00- 130.00	100.00
16.437	16.437 (1.106)	95	1478034			118.92- 178.92	147.66
16.437	16.437 (1.106)	176	966974			66.54- 126.54	96.60
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	21669	5.00000	4.334	70.00- 130.00	100.00
2.280	2.280 (0.288)	87	7678			0.00- 30.00	35.43
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.312)	135	17905	5.00000	4.814	70.00- 130.00	100.00
2.502	2.502 (0.316)	137	3765			1.97- 61.97	21.03
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	7800	5.00000	4.298	70.00- 130.00	100.00
2.667	2.667 (0.337)	64	1687			0.00- 30.00	21.63
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.351)	54	4446	5.00000	4.376	70.00- 130.00	100.00(M)
1.000	1.000 (0.126)	39	0			0.00- 30.00	0.00
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	5062	5.00000	4.278	70.00- 130.00	100.00
3.193	3.193 (0.403)	96	5550			61.22- 121.22	109.64
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.428)	64	2604	5.00000	3.260	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	49	0			0.00- 30.00	0.00
3.663	3.663 (0.462)	66	1342			0.00- 30.00	51.54
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.469)	101	20860	5.00000	3.416	70.00- 130.00	100.00
3.663	3.663 (0.462)	103	11357			33.86- 93.86	54.44
30 Freon 113					CAS #: 76-13-1		
4.492	4.492 (0.567)	151	8993	5.00000	3.306	70.00- 130.00	100.00
4.520	4.520 (0.571)	153	2559			32.96- 92.96	28.46
4.437	4.437 (0.560)	101	7321			75.50- 135.50	81.41
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.492	4.492 (0.567)	61	17606	5.00000	4.598	70.00- 130.00	100.00
4.465	4.465 (0.564)	96	11316			25.95- 85.95	64.27
4.465	4.465 (0.564)	98	3971			5.66- 65.66	22.55

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	21603	5.00000	4.272	70.00- 130.00	100.00
43 Methylene Chloride					CAS #: 75-09-2		
5.349	5.349 (0.675)	49	14748	5.00000	6.920	70.00- 130.00	100.00
5.349	5.349 (0.675)	84	11929			55.75- 115.75	80.89
5.377	5.377 (0.679)	51	3782			0.00- 30.00	25.64
46 MTBE					CAS #: 1634-04-4		
5.626	5.626 (0.710)	73	9676	5.00000	3.965	70.00- 130.00	100.00
5.626	5.626 (0.710)	57	2033			0.00- 48.79	21.01
5.681	5.681 (0.717)	41	2982			0.00- 30.00	30.82
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.709	5.709 (0.721)	96	9825	5.00000	4.650	70.00- 130.00	100.00
5.709	5.709 (0.721)	61	14177			119.68- 179.68	144.30
5.709	5.709 (0.721)	98	6160			0.00- 30.00	62.70
51 Hexane					CAS #: 110-54-3		
6.013	6.013 (0.759)	57	14033	5.00000	4.382	70.00- 130.00	100.00
6.013	6.013 (0.759)	43	9794			0.00- 30.00	69.79
6.013	6.013 (0.759)	86	3487			0.00- 30.00	24.85
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.483	6.483 (0.818)	63	14234	5.00000	3.837	70.00- 130.00	100.00
6.483	6.483 (0.818)	65	5432			1.47- 61.47	38.16
67 2-Butanone					CAS #: 78-93-3		
7.534	7.534 (0.951)	72	4316	5.00000	4.307	70.00- 130.00	100.00
7.561	7.561 (0.955)	43	15704			333.51- 393.51	363.86
7.534	7.534 (0.951)	57	1270			0.00- 30.00	29.43
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.478	7.478 (0.944)	61	13384	5.00000	4.638	70.00- 130.00	100.00
7.478	7.478 (0.944)	96	9497			42.16- 102.16	70.96
7.478	7.478 (0.944)	98	5771			15.86- 75.86	43.12
70 Tetrahydrofuran					CAS #: 109-99-9		
7.893	7.893 (0.996)	42	8324	5.00000	4.327	70.00- 130.00	100.00
7.893	7.893 (0.996)	71	4198			17.18- 77.18	50.43
7.921	7.921 (1.000)	72	4266			0.00- 30.00	51.25
72 Chloroform					CAS #: 67-66-3		
8.031	8.031 (1.014)	83	21648	5.00000	4.517	70.00- 130.00	100.00
8.059	8.059 (1.017)	85	13169			33.60- 93.60	60.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.280	8.280 (1.045)	97	14947	5.00000	3.119	70.00- 130.00	100.00
8.280	8.280 (1.045)	99	9467			32.77- 92.77	63.34
74 Cyclohexane					CAS #: 110-82-7		
8.225	8.225 (1.038)	84	12780	5.00000	4.720	70.00- 130.00	100.00
8.225	8.225 (1.038)	56	12684			74.35- 134.35	99.25
8.225	8.225 (1.038)	41	8182			29.63- 89.63	64.02
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.501	8.501 (1.073)	119	20017	5.00000	3.743	70.00- 130.00	100.00
8.501	8.501 (1.073)	117	22087			74.30- 134.30	110.34
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.889	8.889 (1.122)	57	39641	5.00000	4.382	70.00- 130.00	100.00
8.889	8.889 (1.122)	56	12675			0.00- 30.00	31.97
8.889	8.889 (1.122)	41	13075			0.00- 30.00	32.98
81 Benzene					CAS #: 71-43-2		
8.916	8.916 (0.915)	78	28996	5.00000	4.644	70.00- 130.00	100.00
8.916	8.916 (0.915)	77	6811			0.00- 30.00	23.49
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.110	9.110 (0.935)	62	15302	5.00000	4.125	70.00- 130.00	100.00
9.110	9.110 (0.935)	64	7020			0.00- 30.00	45.88
90 Heptane					CAS #: 142-82-5		
9.276	9.276 (0.952)	100	4694	5.00000	5.561	70.00- 130.00	100.00
9.276	9.276 (0.952)	43	18527			0.00- 30.00	394.70
9.276	9.276 (0.952)	71	12155			0.00- 30.00	258.95
93 Trichloroethene					CAS #: 79-01-6		
10.133	10.133 (1.040)	95	14209	5.00000	4.695	70.00- 130.00	100.00
10.160	10.160 (1.043)	130	12752			65.39- 125.39	89.75
10.133	10.133 (1.040)	97	8369			34.09- 94.09	58.90
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.686	10.686 (1.096)	63	8954	5.00000	4.472	70.00- 130.00	100.00
10.658	10.658 (1.094)	62	6247			40.41- 100.41	69.77
10.658	10.658 (1.094)	41	6755			42.79- 102.79	75.44
100 Bromodichloromethane					CAS #: 75-27-4		
11.239	11.239 (1.153)	83	20845	5.00000	4.012	70.00- 130.00	100.00
11.211	11.211 (1.150)	85	14020			34.08- 94.08	67.26
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.151	12.151 (1.247)	75	14795	5.00000	4.187	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.151	12.151 (1.247)	77	4342			0.86- 60.86	29.35
12.124	12.124 (1.244)	39	7872			24.35- 84.35	53.21
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	4431	5.00000	4.777	70.00- 130.00	100.00
12.455	12.455 (1.278)	43	23496			0.00- 30.00	530.26
12.511	12.511 (1.284)	58	22544			0.00- 30.00	508.78
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	35028	5.00000	4.556	70.00- 130.00	100.00
12.649	12.649 (1.298)	92	20842			28.07- 88.07	59.50
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.229	13.229 (0.890)	75	16293	5.00000	4.184	70.00- 130.00	100.00
13.229	13.229 (0.890)	77	5262			0.00- 60.00	32.30
13.202	13.202 (0.888)	39	7442			16.18- 76.18	45.68
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	11443	5.00000	4.618	70.00- 130.00	100.00
13.506	13.506 (0.909)	99	6294			31.16- 91.16	55.00
13.506	13.506 (0.909)	83	10391			50.03- 110.03	90.81
116 Tetrachloroethene					CAS #: 127-18-4		
13.506	13.506 (0.909)	166	16704	5.00000	4.754	70.00- 130.00	100.00
13.506	13.506 (0.909)	129	12561			52.73- 112.73	75.20
13.506	13.506 (0.909)	131	13119			48.38- 108.38	78.54
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	19119	5.00000	4.087	70.00- 130.00	100.00
14.059	14.059 (0.946)	127	14695			0.00- 30.00	76.86
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	18575	5.00000	4.765	70.00- 130.00	100.00
14.225	14.225 (0.957)	109	17092			62.95- 122.95	92.02
126 Chlorobenzene					CAS #: 108-90-7		
14.888	14.888 (1.002)	112	29002	5.00000	4.847	70.00- 130.00	100.00
14.888	14.888 (1.002)	114	9149			2.29- 62.29	31.55
14.888	14.888 (1.002)	77	34281			35.81- 95.81	118.20
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	15070	5.00000	4.854	70.00- 130.00	100.00
15.027	15.027 (1.011)	91	50277			0.00- 30.00	333.62
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.193 (1.022)	106	18242	5.00000	4.660	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.193	15.193 (1.022)	91	39734			0.00- 30.00	217.82
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	17268	5.00000	4.712	70.00- 130.00	100.00
15.718	15.718 (1.058)	91	41710			220.82- 280.82	241.55
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	23508	5.00000	4.197	70.00- 130.00	100.00
15.773	15.773 (1.061)	78	15680			31.74- 91.74	66.70
134 Bromoform					CAS #: 75-25-2		
16.022	16.022 (1.078)	173	14325	5.00000	3.374	70.00- 130.00	100.00
16.022	16.022 (1.078)	171	7604			21.07- 81.07	53.08
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	20651	5.00000	4.207	70.00- 130.00	100.00
16.686	16.686 (1.123)	85	13484			33.63- 93.63	65.29
144 4-Ethyltoluene					CAS #: 622-96-8		
16.852	16.852 (1.134)	105	53036	5.00000	4.920	70.00- 130.00	100.00
16.852	16.852 (1.134)	120	13940			0.00- 57.92	26.28
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.935	16.935 (1.140)	105	46636	5.00000	4.819	70.00- 130.00	100.00
16.935	16.935 (1.140)	120	19796			0.00- 30.00	42.45
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.322 (1.166)	105	46607	5.00000	4.722	70.00- 130.00	100.00
17.322	17.322 (1.166)	120	19033			9.81- 69.81	40.84
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	28057	5.00000	4.725	70.00- 130.00	100.00
17.626	17.626 (1.186)	148	17573			0.00- 30.00	62.63
17.626	17.626 (1.186)	111	14069			0.00- 30.00	50.14
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	30794	5.00000	4.756	70.00- 130.00	100.00
17.736	17.736 (1.193)	148	19684			0.00- 30.00	63.92
17.736	17.736 (1.193)	111	14162			0.00- 30.00	45.99
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.875 (1.203)	91	31839	5.00000	3.489	70.00- 130.00	100.00
17.875	17.875 (1.203)	126	5560			0.00- 30.00	17.46
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	23868	5.00000	4.482	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.096	18.096 (1.218)	148	14144			34.14- 94.14	59.26
18.068	18.068 (1.216)	111	11087			14.99- 74.99	46.45
142 Propylbenzene					CAS #: 103-65-1		
16.686	16.686 (1.123)	91	62814	5.00000	4.987	70.00- 130.00	100.00
16.713	16.713 (1.125)	120	12125			0.00- 30.00	19.30
16.686	16.686 (1.123)	105	1950			0.00- 30.00	3.10
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	52533	5.00000	4.838	70.00- 130.00	100.00
16.188	16.188 (1.089)	120	13084			0.00- 30.00	24.91
16.188	16.188 (1.089)	51	4958			0.00- 30.00	9.44
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.326	10.326 (1.060)	83	17757	5.00000	4.482	70.00- 130.00	100.00
10.326	10.326 (1.060)	98	8684			0.00- 30.00	48.90
10.326	10.326 (1.060)	55	12946			0.00- 30.00	72.91

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Report Date: 25-Apr-2008 15:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042424.d
Lab Smp Id: 1544-81C
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv->5ppbv

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	412608	-0.49
92 1,4-Difluorobenze	1880051	1128031	2632071	1900941	1.11
125 Chlorobenzene-d5	1629476	977686	2281266	1574641	-3.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

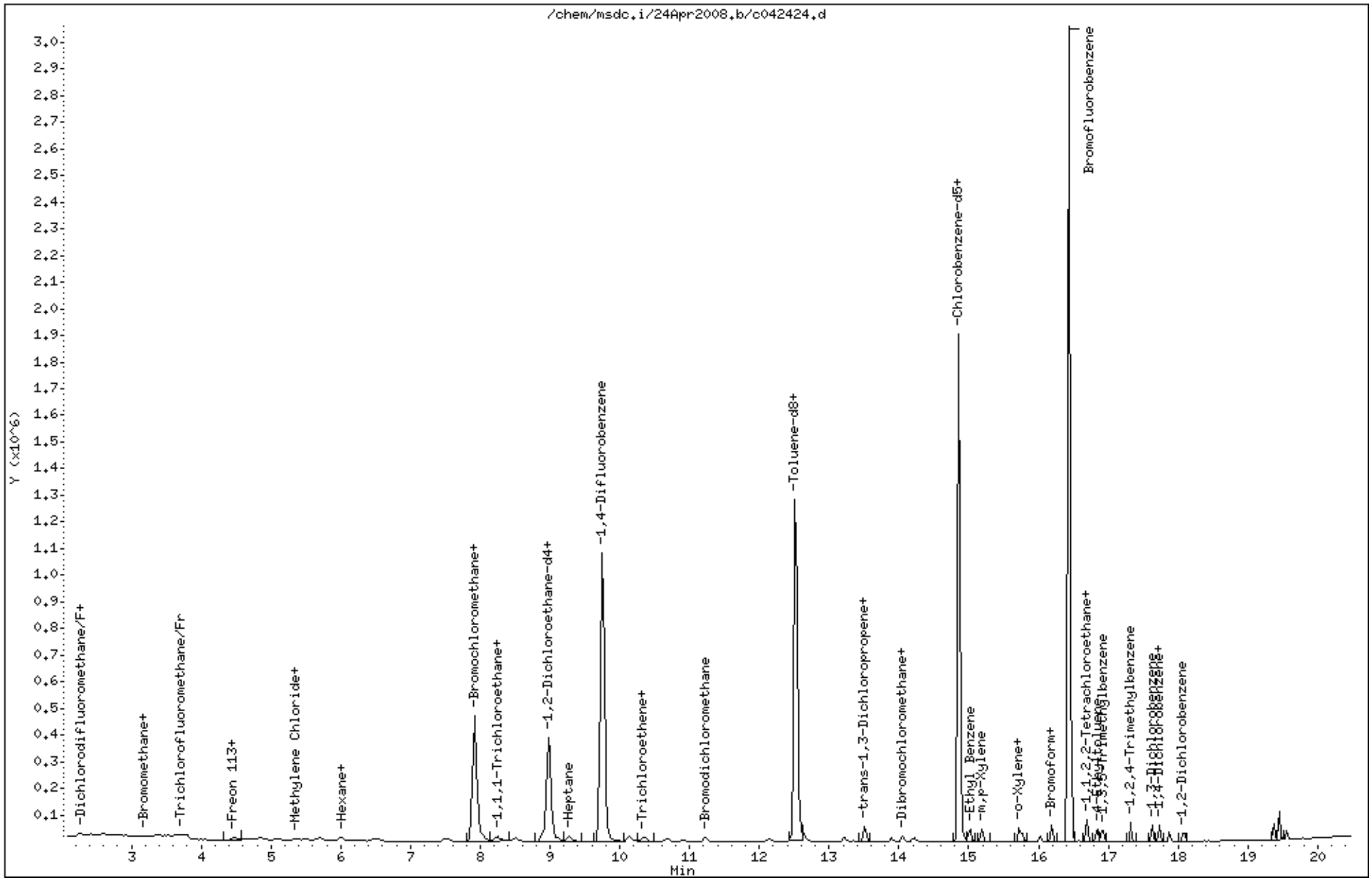
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdc.i/24Apr2008.b/c042424.d
Date : 24-APR-2008 22:39
Client ID: Level 2
Sample Info: 1.25mL,31443

Instrument: msdc.i

Operator: ac
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042414.d
Lab Smp Id: 1544-83 Client Smp ID: Level3
Inj Date : 24-APR-2008 15:16
Operator : ly Inst ID: msdc.i
Smp Info : 50mL,35621
Misc Info : 20ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 28-Apr-2008 09:30 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.948 (1.000)	130	414482	400.000		80.00- 120.00	100.00
7.921	7.948 (1.000)	128	324667			48.15- 108.15	78.33
7.921	7.948 (1.000)	49	505669			91.86- 151.86	122.00
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.773 (1.000)	114	1870139	400.000		80.00- 120.00	100.00
9.746	9.773 (1.000)	88	335247			0.00- 47.10	17.93
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1551644	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	1001508			30.26- 90.26	64.54
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.971	8.971 (1.133)	65	789833	400.000	391.26	80.00- 120.00	100.00
8.971	8.971 (1.133)	67	363324			0.00- 30.00	46.00
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.511	12.510 (1.284)	98	1810201	400.000	388.19	80.00- 120.00	100.00
12.511	12.510 (1.284)	70	222165			0.00- 30.00	12.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.511	12.510 (1.284)	100	1153865			0.00- 30.00	63.74
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	984639	400.000	398.13	80.00- 120.00	100.00
16.437	16.437 (1.106)	95	1487935			118.92- 178.92	151.11
16.437	16.437 (1.106)	176	952562			66.54- 126.54	96.74
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	18862	20.0000	16.707	80.00- 120.00	100.00
2.225	2.225 (0.281)	42	13333			0.00- 30.00	70.69
2.225	2.225 (0.281)	39	17288			0.00- 30.00	91.66
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	104211	20.0000	20.749	80.00- 120.00	100.00
2.280	2.280 (0.288)	87	35033			0.00- 30.00	33.62
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	71479	20.0000	19.129	80.00- 120.00	100.00
2.446	2.446 (0.309)	137	23356			1.97- 61.97	32.68
10 Chloromethane					CAS #: 74-87-3		
2.557	2.529 (0.323)	50	33221	20.0000	17.721	80.00- 120.00	100.00
2.557	2.529 (0.323)	52	10063			0.00- 30.00	30.29
13 Vinyl Chloride					CAS #: 75-01-4		
2.667	2.695 (0.337)	62	32086	20.0000	17.601	80.00- 120.00	100.00
2.695	2.695 (0.340)	64	12342			0.00- 30.00	38.47
12 1,3-Butadiene					CAS #: 106-99-0		
2.723	2.750 (0.344)	54	13349	20.0000	12.726	80.00- 120.00	100.00
2.584	2.750 (0.326)	39	22333			0.00- 30.00	167.30
15 Bromomethane					CAS #: 74-83-9		
3.220	3.193 (0.407)	94	5093	20.0000	4.248	80.00- 120.00	100.00(M)
3.220	3.193 (0.407)	96	4464			61.22- 121.22	87.65
19 Chloroethane					CAS #: 75-00-3		
3.331	3.358 (0.421)	64	13048	20.0000	16.260	80.00- 120.00	100.00
3.359	3.358 (0.424)	49	4827			0.00- 30.00	36.99
3.386	3.358 (0.428)	66	6174			0.00- 30.00	47.32
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.635	3.635 (0.459)	101	127223	20.0000	20.738	80.00- 120.00	100.00
3.635	3.635 (0.459)	103	81272			33.86- 93.86	63.88

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.022	4.022 (0.508)	45	10450	20.0000	16.726	80.00- 120.00	100.00
4.022	4.022 (0.508)	43	3595			0.00- 30.00	34.40
4.022	4.022 (0.508)	46	3681			0.00- 30.00	35.22
30 Freon 113					CAS #: 76-13-1		
4.437	4.464 (0.560)	151	48518	20.0000	17.758	80.00- 120.00	100.00
4.437	4.464 (0.560)	153	22947			32.85- 92.85	47.30
4.437	4.464 (0.560)	101	60804			74.79- 134.79	125.32
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.465	4.464 (0.564)	61	73718	20.0000	19.166	80.00- 120.00	100.00
4.465	4.464 (0.564)	96	43820			25.95- 85.95	59.44
4.465	4.464 (0.564)	98	26788			5.66- 65.66	36.34
32 Acetone					CAS #: 67-64-1		
4.658	4.658 (0.588)	58	17142	20.0000	18.919	80.00- 120.00	100.00
4.658	4.658 (0.588)	43	57802			0.00- 30.00	337.20
36 2-Propanol					CAS #: 67-63-0		
4.852	4.852 (0.613)	45	49242	20.0000	16.425	80.00- 120.00	100.00
4.879	4.852 (0.616)	43	13560			0.00- 30.00	27.54
4.879	4.852 (0.616)	59	3026			0.00- 30.00	6.15
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	93582	20.0000	18.420	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	18014	20.0000	15.694	80.00- 120.00	100.00
5.073	5.073 (0.640)	41	41209			0.00- 30.00	228.76
43 Methylene Chloride					CAS #: 75-09-2		
5.349	5.349 (0.675)	49	40615	20.0000	18.970	80.00- 120.00	100.00
5.349	5.349 (0.675)	84	32172			55.67- 115.67	79.21
5.349	5.349 (0.675)	51	13304			0.00- 30.00	32.76
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.488	5.487 (0.693)	59	45687	20.0000	18.512	80.00- 120.00	100.00
5.488	5.487 (0.693)	41	10181			0.00- 30.00	22.28
5.488	5.487 (0.693)	57	5542			0.00- 30.00	12.13
46 MTBE					CAS #: 1634-04-4		
5.654	5.653 (0.714)	73	57049	20.0000	23.274	80.00- 120.00	100.00
5.654	5.653 (0.714)	57	13615			0.00- 48.79	23.87
5.654	5.653 (0.714)	41	11287			0.00- 30.00	19.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.681	5.709 (0.717)	96	41158	20.0000	19.393	80.00- 120.00	100.00
5.681	5.709 (0.717)	61	63136			119.69- 179.69	153.40
5.709	5.709 (0.721)	98	26605			0.00- 30.00	64.64
51 Hexane					CAS #: 110-54-3		
5.985	6.013 (0.756)	57	54289	20.0000	16.874	80.00- 120.00	100.00
6.013	6.013 (0.759)	43	36443			0.00- 30.00	67.13
5.985	6.013 (0.756)	86	11482			0.00- 30.00	21.15
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.483	6.483 (0.818)	63	73120	20.0000	19.620	80.00- 120.00	100.00
6.483	6.483 (0.818)	65	25039			1.47- 61.47	34.24
67 2-Butanone					CAS #: 78-93-3		
7.561	7.534 (0.955)	72	19276	20.0000	19.150	80.00- 120.00	100.00
7.561	7.534 (0.955)	43	68096			333.51- 393.51	353.27
7.534	7.534 (0.951)	57	6302			0.00- 30.00	32.69
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.478	7.478 (0.944)	61	57023	20.0000	19.673	80.00- 120.00	100.00
7.478	7.478 (0.944)	96	41951			42.16- 102.16	73.57
7.478	7.478 (0.944)	98	27829			15.86- 75.86	48.80
70 Tetrahydrofuran					CAS #: 109-99-9		
7.921	7.893 (1.000)	42	37498	20.0000	19.403	80.00- 120.00	100.00
7.921	7.893 (1.000)	71	17041			17.18- 77.18	45.45
7.921	7.893 (1.000)	72	19284			0.00- 30.00	51.43
72 Chloroform					CAS #: 67-66-3		
8.031	8.031 (1.014)	83	92135	20.0000	19.138	80.00- 120.00	100.00
8.031	8.031 (1.014)	85	62209			33.60- 93.60	67.52
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.280	8.280 (1.045)	97	94417	20.0000	19.615	80.00- 120.00	100.00
8.280	8.280 (1.045)	99	61825			32.77- 92.77	65.48
74 Cyclohexane					CAS #: 110-82-7		
8.225	8.225 (1.038)	84	54949	20.0000	20.205	80.00- 120.00	100.00
8.225	8.225 (1.038)	56	56951			74.35- 134.35	103.64
8.225	8.225 (1.038)	41	34769			29.63- 89.63	63.28
56 Vinyl Acetate					CAS #: 108-05-4		
6.538	6.538 (0.825)	86	11067	20.0000	19.476	80.00- 120.00	100.00
6.538	6.538 (0.825)	43	92849			0.00- 30.00	838.97
6.538	6.538 (0.825)	42	9033			0.00- 30.00	81.62

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
77 Carbon Tetrachloride						CAS #: 56-23-5	
8.474	8.501 (1.070)	119	99429	20.0000	18.510	80.00- 120.00	100.00
8.501	8.501 (1.073)	117	105929			74.30- 134.30	106.54
80 2,2,4-Trimethylpentane						CAS #: 540-84-1	
8.888	8.888 (1.122)	57	173728	20.0000	19.117	80.00- 120.00	100.00
8.888	8.888 (1.122)	56	53489			0.00- 30.00	30.79
8.888	8.888 (1.122)	41	53341			0.00- 30.00	30.70
81 Benzene						CAS #: 71-43-2	
8.916	8.916 (0.915)	78	118608	20.0000	19.308	80.00- 120.00	100.00
8.916	8.916 (0.915)	77	29263			0.00- 30.00	24.67
85 1,2-Dichloroethane						CAS #: 107-06-2	
9.110	9.110 (0.935)	62	70731	20.0000	19.382	80.00- 120.00	100.00
9.110	9.110 (0.935)	64	25427			0.00- 30.00	35.95
90 Heptane						CAS #: 142-82-5	
9.276	9.275 (0.952)	100	14864	20.0000	17.899	80.00- 120.00	100.00
9.276	9.275 (0.952)	43	62715			0.00- 30.00	421.93
9.276	9.275 (0.952)	71	41995			0.00- 30.00	282.53
93 Trichloroethene						CAS #: 79-01-6	
10.133	10.133 (1.040)	95	56939	20.0000	19.122	80.00- 120.00	100.00
10.133	10.133 (1.040)	130	54038			65.39- 125.39	94.91
10.133	10.133 (1.040)	97	36513			34.09- 94.09	64.13
98 1,2-Dichloropropane						CAS #: 78-87-5	
10.658	10.686 (1.094)	63	37578	20.0000	19.076	80.00- 120.00	100.00
10.686	10.686 (1.096)	62	26767			40.41- 100.41	71.23
10.686	10.686 (1.096)	41	28536			42.79- 102.79	75.94
99 1,4-Dioxane						CAS #: 123-91-1	
10.907	10.907 (1.119)	88	22711	20.0000	16.282	80.00- 120.00	100.00
10.935	10.907 (1.122)	58	15173			35.04- 95.04	66.81
10.907	10.907 (1.119)	57	4618			0.00- 30.00	20.33
100 Bromodichloromethane						CAS #: 75-27-4	
11.239	11.239 (1.153)	83	92610	20.0000	18.120	80.00- 120.00	100.00
11.211	11.239 (1.150)	85	61474			34.08- 94.08	66.38
103 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
12.151	12.151 (1.247)	75	61864	20.0000	17.795	80.00- 120.00	100.00
12.151	12.151 (1.247)	77	18225			0.86- 60.86	29.46
12.151	12.151 (1.247)	39	32285			24.35- 84.35	52.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	16543	20.0000	18.128	80.00- 120.00	100.00
12.455	12.455 (1.278)	43	82515			0.00- 30.00	498.79
12.455	12.455 (1.278)	58	44559			0.00- 30.00	269.35
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	148132	20.0000	19.583	80.00- 120.00	100.00
12.649	12.649 (1.298)	92	85059			28.07- 88.07	57.42
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.229	13.229 (0.890)	75	70517	20.0000	18.376	80.00- 120.00	100.00
13.229	13.229 (0.890)	77	22875			0.00- 60.00	32.44
13.229	13.229 (0.890)	39	32561			16.18- 76.18	46.17
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	47124	20.0000	19.298	80.00- 120.00	100.00
13.506	13.506 (0.909)	99	26993			31.16- 91.16	57.28
13.506	13.506 (0.909)	83	39716			50.03- 110.03	84.28
116 Tetrachloroethene					CAS #: 127-18-4		
13.506	13.506 (0.909)	166	67738	20.0000	19.566	80.00- 120.00	100.00
13.506	13.506 (0.909)	129	58928			52.73- 112.73	86.99
13.506	13.506 (0.909)	131	59454			48.38- 108.38	87.77
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	40743	20.0000	19.046	80.00- 120.00	100.00
13.893	13.893 (0.935)	43	74202			156.81- 216.81	182.12
13.893	13.893 (0.935)	100	9423			0.00- 30.00	23.13
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	85333	20.0000	18.514	80.00- 120.00	100.00
14.059	14.059 (0.946)	127	69588			0.00- 30.00	81.55
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	75477	20.0000	19.650	80.00- 120.00	100.00
14.225	14.225 (0.957)	109	70580			62.95- 122.95	93.51
126 Chlorobenzene					CAS #: 108-90-7		
14.888	14.888 (1.002)	112	119726	20.0000	20.142	80.00- 120.00	100.00
14.888	14.888 (1.002)	114	38867			2.29- 62.29	32.46
14.888	14.888 (1.002)	77	96273			35.81- 95.81	80.41
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	60722	20.0000	19.849	80.00- 120.00	100.00
15.027	15.027 (1.011)	91	220066			0.00- 30.00	362.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.192 (1.022)	106	80347	20.0000	20.828	80.00- 120.00	100.00
15.193	15.192 (1.022)	91	180570			0.00- 30.00	224.74
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	75195	20.0000	20.822	80.00- 120.00	100.00
15.718	15.718 (1.058)	91	179108			220.82- 280.82	238.19
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	111448	20.0000	20.193	80.00- 120.00	100.00
15.773	15.773 (1.061)	78	70908			31.74- 91.74	63.62
134 Bromoform					CAS #: 75-25-2		
16.022	16.050 (1.078)	173	76979	20.0000	18.398	80.00- 120.00	100.00
16.022	16.050 (1.078)	171	39605			21.07- 81.07	51.45
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	106527	20.0000	22.023	80.00- 120.00	100.00
16.686	16.686 (1.123)	85	66524			33.63- 93.63	62.45
144 4-Ethyltoluene					CAS #: 622-96-8		
16.852	16.851 (1.134)	105	250457	20.0000	23.578	80.00- 120.00	100.00
16.852	16.851 (1.134)	120	69493			0.00- 57.92	27.75
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.934	16.934 (1.140)	105	221396	20.0000	23.218	80.00- 120.00	100.00
16.934	16.934 (1.140)	120	95289			0.00- 30.00	43.04
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.321 (1.166)	105	232789	20.0000	22.473	80.00- 120.00	100.00
17.322	17.321 (1.166)	120	93730			9.81- 69.81	40.26
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	133096	20.0000	22.426	80.00- 120.00	100.00
17.626	17.626 (1.186)	148	86277			0.00- 30.00	64.82
17.626	17.626 (1.186)	111	65079			0.00- 30.00	48.90
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	151360	20.0000	23.724	80.00- 120.00	100.00
17.736	17.736 (1.193)	148	95236			0.00- 30.00	62.92
17.736	17.736 (1.193)	111	61353			0.00- 30.00	40.53
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.874 (1.203)	91	177428	20.0000	19.730	80.00- 120.00	100.00
17.875	17.874 (1.203)	126	30633			0.00- 30.00	17.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	117219	20.0000	22.338	80.00- 120.00	100.00
18.096	18.096 (1.218)	148	74737			34.14- 94.14	63.76
18.096	18.096 (1.218)	111	52837			14.99- 74.99	45.08
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.368	19.395 (1.303)	180	61353	20.0000	18.695	80.00- 120.00	100.00
19.368	19.395 (1.303)	182	61996			64.84- 124.84	101.05
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.451	19.450 (1.309)	225	72280	20.0000	21.062	80.00- 120.00	100.00
19.451	19.450 (1.309)	223	44945			33.24- 93.24	62.18
142 Propylbenzene					CAS #: 103-65-1		
16.713	16.713 (1.125)	91	288694	20.0000	21.561	80.00- 120.00	100.00
16.713	16.713 (1.125)	120	60165			0.00- 30.00	20.84
16.713	16.713 (1.125)	105	10760			0.00- 30.00	3.73
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	245251	20.0000	21.504	80.00- 120.00	100.00
16.188	16.188 (1.089)	120	58327			0.00- 30.00	23.78
16.188	16.188 (1.089)	51	24453			0.00- 30.00	9.97
165 Naphthalene					CAS #: 91-20-3		
19.561	19.561 (1.316)	128	124564	20.0000	16.609	80.00- 120.00	100.00
19.561	19.561 (1.316)	127	16823			0.00- 30.00	13.51
17 Isopentane					CAS #: 78-78-4		
3.331	3.331 (0.421)	43	28786	20.0000	17.907	80.00- 120.00	100.00
3.331	3.331 (0.421)	57	22640			0.00- 30.00	78.65
3.331	3.331 (0.421)	72	3817			0.00- 30.00	13.26
11 Butane					CAS #: 106-97-8		
2.695	2.667 (0.340)	58	5109	20.0000	13.276	80.00- 120.00	100.00
2.667	2.667 (0.337)	43	48736			0.00- 30.00	953.92
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.354	10.354 (1.062)	83	72297	20.0000	18.549	80.00- 120.00	100.00
10.354	10.354 (1.062)	98	35547			0.00- 30.00	49.17
10.326	10.354 (1.060)	55	52852			0.00- 30.00	73.10

QC Flag Legend

M - Compound response manually integrated.

Report Date: 28-Apr-2008 09:35

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042414.d
Lab Smp Id: 1544-83
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 20ppbv

Calibration Date: 16-APR-2008
Calibration Time: 19:29
Client Smp ID: Level3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	429642	257785	601499	414482	-3.53
92 1,4-Difluorobenze	1935142	1161085	2709199	1870139	-3.36
125 Chlorobenzene-d5	1553072	931843	2174301	1551644	-0.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.95	7.62	8.28	7.92	-0.35
92 1,4-Difluorobenze	9.77	9.44	10.10	9.75	-0.28
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdc.i/24Apr2008.b/c042414.d

Date : 24-APR-2008 15:16

Client ID: Level3

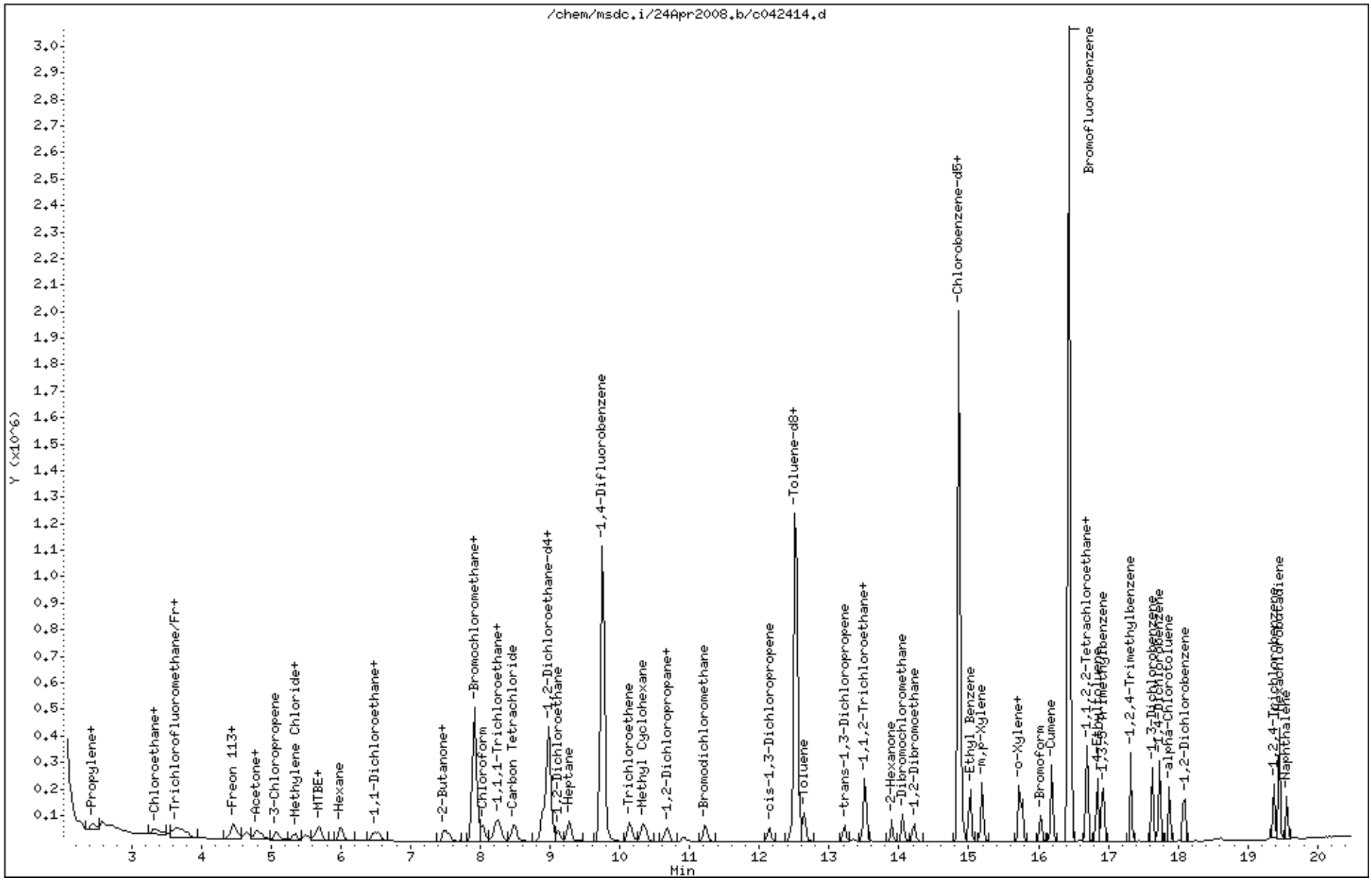
Sample Info: 50mL,35621

Column phase: RTx-624

Instrument: msdc.i

Operator: ly

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041607.d
Lab Smp Id: 1576-342, Sp1 Client Smp ID: Sp1
Inj Date : 16-APR-2008 18:36
Operator : ac Inst ID: msdc.i
Smp Info : 5mL,3761
Misc Info : 200ppbv->20ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:16 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 18:36 Cal File: c041607.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Spfrnosur-134a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.948	7.948 (1.000)	130	312557	400.000		70.00- 130.00	100.00
7.948	7.948 (1.000)	128	250329			44.75- 104.75	80.09
7.948	7.948 (1.000)	49	420488			93.77- 153.77	134.53
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.773	9.773 (1.000)	114	1444955	400.000		70.00- 130.00	100.00
9.773	9.773 (1.000)	88	250109			0.00- 46.99	17.31
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1565505	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	948748			0.00- 30.00	60.60
3 Freon 152a					CAS #: 75-37-6		
2.280	2.280 (0.287)	65	21228	20.0000	20.000	0.00- 30.00	100.00
2.308	2.308 (0.290)	51	74245			0.00- 30.00	349.75
4 Freon 22					CAS #: 75-45-6		
2.335	2.335 (0.294)	67	8170	20.0000	20.000	0.00- 30.00	100.00
2.308	2.308 (0.290)	51	74245			0.00- 30.00	908.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.690	3.690 (0.464)	67	42971	20.0000	20.000	0.00- 30.00	100.00(T)
3.718	3.718 (0.468)	69	13351			0.00- 30.00	31.07
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
49 Isopropyl ether					CAS #: 108-20-3		
6.483	6.483 (0.816)	45	76493	20.0000	20.000	0.00- 30.00	100.00
6.455	6.455 (0.812)	87	21560			0.00- 30.00	28.19
6.455	6.455 (0.812)	59	9965			0.00- 30.00	13.03
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.091	7.091 (0.892)	59	61533	20.0000	20.000	0.00- 30.00	100.00
7.091	7.091 (0.892)	87	29309			0.00- 30.00	47.63
7.091	7.091 (0.892)	41	12532			0.00- 30.00	20.37
61 Ethyl Acetate					CAS #: 141-78-6		
7.617	7.617 (0.958)	70	5866	20.0000	20.000	0.00- 30.00	100.00
7.617	7.617 (0.958)	43	51555			0.00- 30.00	878.88
7.617	7.617 (0.958)	61	7311			0.00- 30.00	124.63
64 1-Propanol					CAS #: 71-23-8		
6.732	6.732 (0.847)	42	3314	20.0000	20.000	0.00- 30.00	100.00
6.759	6.759 (0.850)	59	4086			0.00- 30.00	123.30
6.732	6.732 (0.847)	41	2387			0.00- 30.00	72.03
76 Isobutanol					CAS #: 78-83-1		
8.971	8.971 (0.918)	43	18954	20.0000	20.000	0.00- 30.00	100.00
8.971	8.971 (0.918)	41	15614			0.00- 30.00	82.38
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.137	9.137 (1.150)	73	76997	20.0000	20.000	0.00- 30.00	100.00
9.137	9.137 (1.150)	87	19324			0.00- 30.00	25.10
9.110	9.110 (1.146)	55	20757			0.00- 30.00	26.96
91 1-Butanol					CAS #: 71-36-3		
10.243	10.243 (1.048)	56	12784	20.0000	20.000	0.00- 30.00	100.00
10.243	10.243 (1.048)	41	10933			0.00- 30.00	85.52
10.243	10.243 (1.048)	43	8350			0.00- 30.00	65.32
118 Butyl Acetate					CAS #: 123-86-4		
14.086	14.086 (1.441)	56	29802	20.0000	20.000	0.00- 30.00	100.00
14.086	14.086 (1.441)	73	14028			0.00- 30.00	47.07
14.086	14.086 (1.441)	43	66948			0.00- 30.00	224.64
131 2-Heptanone					CAS #: 110-43-0		
15.994	15.994 (1.076)	58	38881	20.0000	20.000	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 2-Heptanone (continued)							
15.994	15.994 (1.076)	43	58308			0.00- 30.00	149.97
135 Cyclohexanone					CAS #: 108-94-1		
16.409	16.409 (1.104)	55	36721	20.0000	20.000	0.00- 30.00	100.00
16.409	16.409 (1.104)	98	16375			0.00- 30.00	44.59
16.409	16.409 (1.104)	42	22442			0.00- 30.00	61.11
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.100	17.100 (1.151)	57	83804	20.0000	20.000	0.00- 30.00	100.00
17.100	17.100 (1.151)	85	72420			0.00- 30.00	86.42

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041607.d
Lab Smp Id: 1576-342, Sp1
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv->20ppbv

Calibration Date: 16-APR-2008
Calibration Time: 14:15
Client Smp ID: Sp1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	438847	263308	614386	312557	-28.78
92 1,4-Difluorobenze	2002397	1201438	2803356	1444955	-27.84
125 Chlorobenzene-d5	1615958	969575	2262341	1565505	-3.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.95	7.62	8.28	7.95	0.00
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

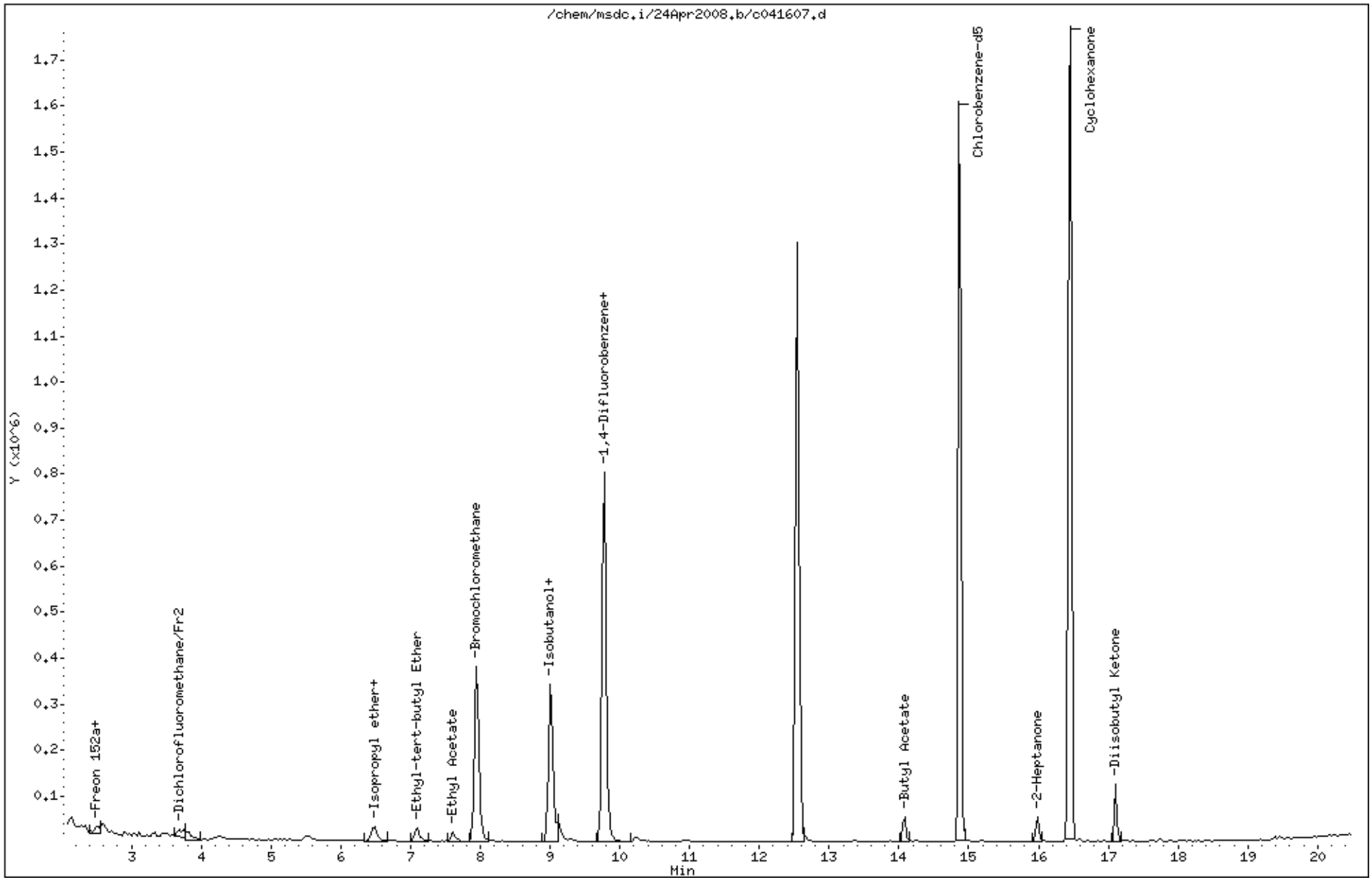
0256

Data File: /chem/msdc.i/24Apr2008.b/c041607.d
Date : 16-APR-2008 18:36
Client ID: Sp1
Sample Info: 5mL,3761

Instrument: msdc.i

Operator: ac
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041528.d
Lab Smp Id: 1576-319
Inj Date : 16-APR-2008 13:20
Operator : ly Inst ID: msdc.i
Smp Info : 5.0ml,33376
Misc Info : 200ppbv->20ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:16 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 13:20 Cal File: c041528.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Dibromnosurr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.949	7.949 (1.000)	130	434546	400.000		70.00- 130.00	100.00
7.949	7.949 (1.000)	128	347076			47.60- 107.60	79.87
7.921	7.921 (1.000)	49	539488			90.73- 150.73	124.15
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.773	9.773 (1.000)	114	1993819	400.000		70.00- 130.00	100.00
9.773	9.773 (1.000)	88	337969			0.00- 46.82	16.95
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1609132	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	981404			0.00- 30.00	60.99
95 Dibromomethane					CAS #: 74-95-3		
10.935	10.935 (1.119)	174	40271	20.0000	20.000	0.00- 30.00	100.00
10.935	10.935 (1.119)	93	42805			0.00- 30.00	106.29
10.935	10.935 (1.119)	95	34836			0.00- 30.00	86.50

Report Date: 25-Apr-2008 15:16

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041528.d
Lab Smp Id: 1576-319
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv->20ppbv

Calibration Date: 16-APR-2008
Calibration Time: 12:15
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	445129	267077	623181	434546	-2.38
92 1,4-Difluorobenze	1996358	1197815	2794901	1993819	-0.13
125 Chlorobenzene-d5	1195769	717461	1674077	1609132	34.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.95	0.35
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

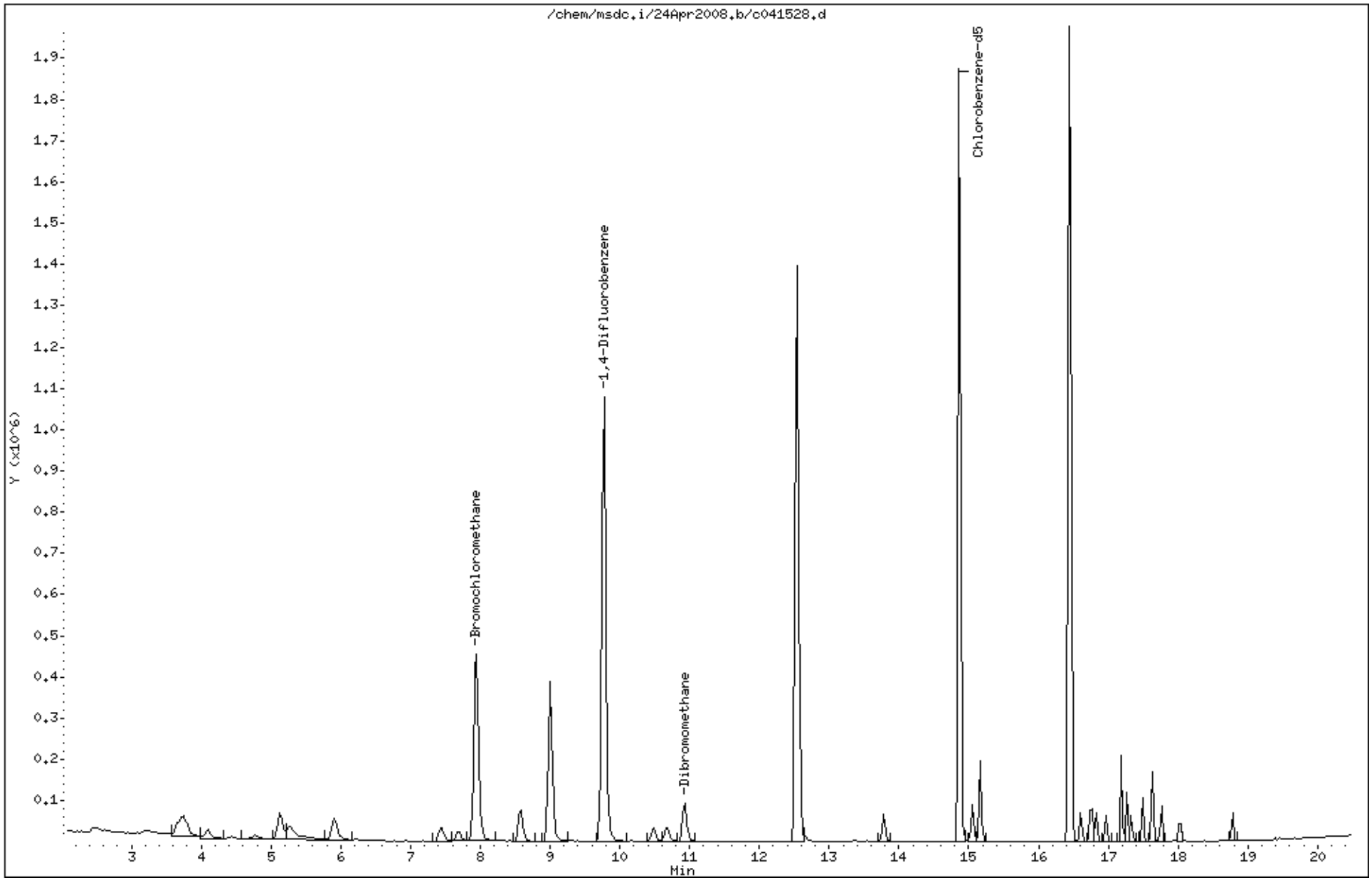
0259

Data File: /chem/msdc.i/24Apr2008.b/c041528.d
Date : 16-APR-2008 13:20
Client ID:
Sample Info: 5.0ml,33376

Instrument: msdc.i

Operator: ly
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041524.d
Lab Smp Id: 1541-119
Inj Date : 16-APR-2008 10:58
Operator : ly Inst ID: msdc.i
Smp Info : 5ml,34399
Misc Info : 200ppbv-20ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:15 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 10:58 Cal File: c041524.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Spbt2nosurr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.949	7.949 (1.000)	130	431648	400.000		0.00- 30.00	100.00
7.949	7.949 (1.000)	128	342308			0.00- 30.00	79.30
7.921	7.921 (1.000)	49	541859			0.00- 30.00	125.53
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.773	9.773 (1.000)	114	2010244	400.000		0.00- 30.00	100.00
9.773	9.773 (1.000)	88	345042			0.00- 30.00	17.16
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1631659	400.000		0.00- 30.00	100.00
14.861	14.861 (1.000)	82	989991			0.00- 30.00	60.67
59 1,3-Dichloropropane					CAS #: 142-28-9		
3.746	3.746 (0.383)	76	11873	20.0000	20.000	0.00- 30.00	100.00
3.746	3.746 (0.383)	41	22764			0.00- 30.00	191.73
3.746	3.746 (0.383)	78	3848			0.00- 30.00	32.41
192 Cyclopentene					CAS #: 142-29-0		
5.128	5.128 (0.645)	67	78549	20.0000	20.000	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
192 Cyclopentene (continued)							
5.128	5.128 (0.645)	68	30561			0.00- 30.00	38.91
5.128	5.128 (0.645)	53	13419			0.00- 30.00	17.08
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.423	7.423 (0.934)	77	25905	20.0000	20.000	0.00- 30.00	100.00
7.423	7.423 (0.934)	79	8774			0.00- 30.00	33.87
7.451	7.451 (0.937)	97	5230			0.00- 30.00	20.19
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.584	8.584 (1.080)	110	18995	20.0000	20.000	0.00- 30.00	100.00
8.584	8.584 (1.080)	75	55171			0.00- 30.00	290.45
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.054	15.054 (1.013)	131	52601	20.0000	20.000	0.00- 30.00	100.00
15.054	15.054 (1.013)	117	32556			0.00- 30.00	61.89
15.054	15.054 (1.013)	95	21387			0.00- 30.00	40.66
137 Bromobenzene					CAS #: 108-86-1		
16.603	16.603 (1.117)	156	53039	20.0000	20.000	0.00- 30.00	100.00
16.603	16.603 (1.117)	77	97897			0.00- 30.00	184.58
16.603	16.603 (1.117)	158	50753			0.00- 30.00	95.69
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.741	16.741 (1.127)	110	28830	20.0000	20.000	0.00- 30.00	100.00
16.741	16.741 (1.127)	61	16969			0.00- 30.00	58.86
16.741	16.741 (1.127)	112	17814			0.00- 30.00	61.79
140 2-Chlorotoluene					CAS #: 95-49-8		
16.824	16.824 (1.132)	126	41717	20.0000	20.000	0.00- 30.00	100.00
16.824	16.824 (1.132)	91	140659			0.00- 30.00	337.17
16.824	16.824 (1.132)	65	13716			0.00- 30.00	32.88
143 4-Chlorotoluene					CAS #: 106-43-4		
16.962	16.962 (1.141)	126	41163	20.0000	20.000	0.00- 30.00	100.00
16.962	16.962 (1.141)	91	137322			0.00- 30.00	333.61
16.962	16.962 (1.141)	63	15511			0.00- 30.00	37.68
149 tert-Butylbenzene					CAS #: 98-06-6		
17.266	17.266 (1.162)	119	158650	20.0000	20.000	0.00- 30.00	100.00
17.266	17.266 (1.162)	134	36926			0.00- 30.00	23.28
17.266	17.266 (1.162)	91	108639			0.00- 30.00	68.48
150 Pentachloroethane					CAS #: 76-01-7		
17.322	17.322 (1.166)	167	35688	20.0000	20.000	0.00- 30.00	100.00
17.322	17.322 (1.166)	117	35006			0.00- 30.00	98.09

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
151 sec-Butylbenzene					CAS #: 135-98-8		
17.488	17.488 (1.177)	105	222959	20.0000	20.000	0.00- 30.00	100.00
17.488	17.488 (1.177)	134	42530			0.00- 30.00	19.08
17.488	17.488 (1.177)	91	35500			0.00- 30.00	15.92
153 p-Cymene					CAS #: 99-87-6		
17.653	17.653 (1.188)	134	39795	20.0000	20.000	0.00- 30.00	100.00
17.653	17.653 (1.188)	119	156320			0.00- 30.00	392.81
17.626	17.626 (1.186)	91	39432			0.00- 30.00	99.09
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.764	17.764 (1.195)	120	55345	20.0000	20.000	0.00- 30.00	100.00
17.764	17.764 (1.195)	105	135772			0.00- 30.00	245.32
17.764	17.764 (1.195)	77	16820			0.00- 30.00	30.39
158 Butylbenzene					CAS #: 104-51-8		
18.041	18.041 (1.214)	134	34152	20.0000	20.000	0.00- 30.00	100.00
18.013	18.013 (1.212)	91	127079			0.00- 30.00	372.10
18.013	18.013 (1.212)	92	65724			0.00- 30.00	192.45
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.787	18.787 (1.264)	157	40952	20.0000	20.000	0.00- 30.00	100.00
18.787	18.787 (1.264)	75	31846			0.00- 30.00	77.76
18.787	18.787 (1.264)	155	31610			0.00- 30.00	77.19

Report Date: 25-Apr-2008 15:15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041524.d
Lab Smp Id: 1541-119
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv-20ppbv

Calibration Date: 16-APR-2008
Calibration Time: 10:58
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	431648	258989	604307	431648	0.00
92 1,4-Difluorobenze	2010244	1206146	2814342	2010244	0.00
125 Chlorobenzene-d5	1631659	978995	2284323	1631659	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.95	7.62	8.28	7.95	0.00
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

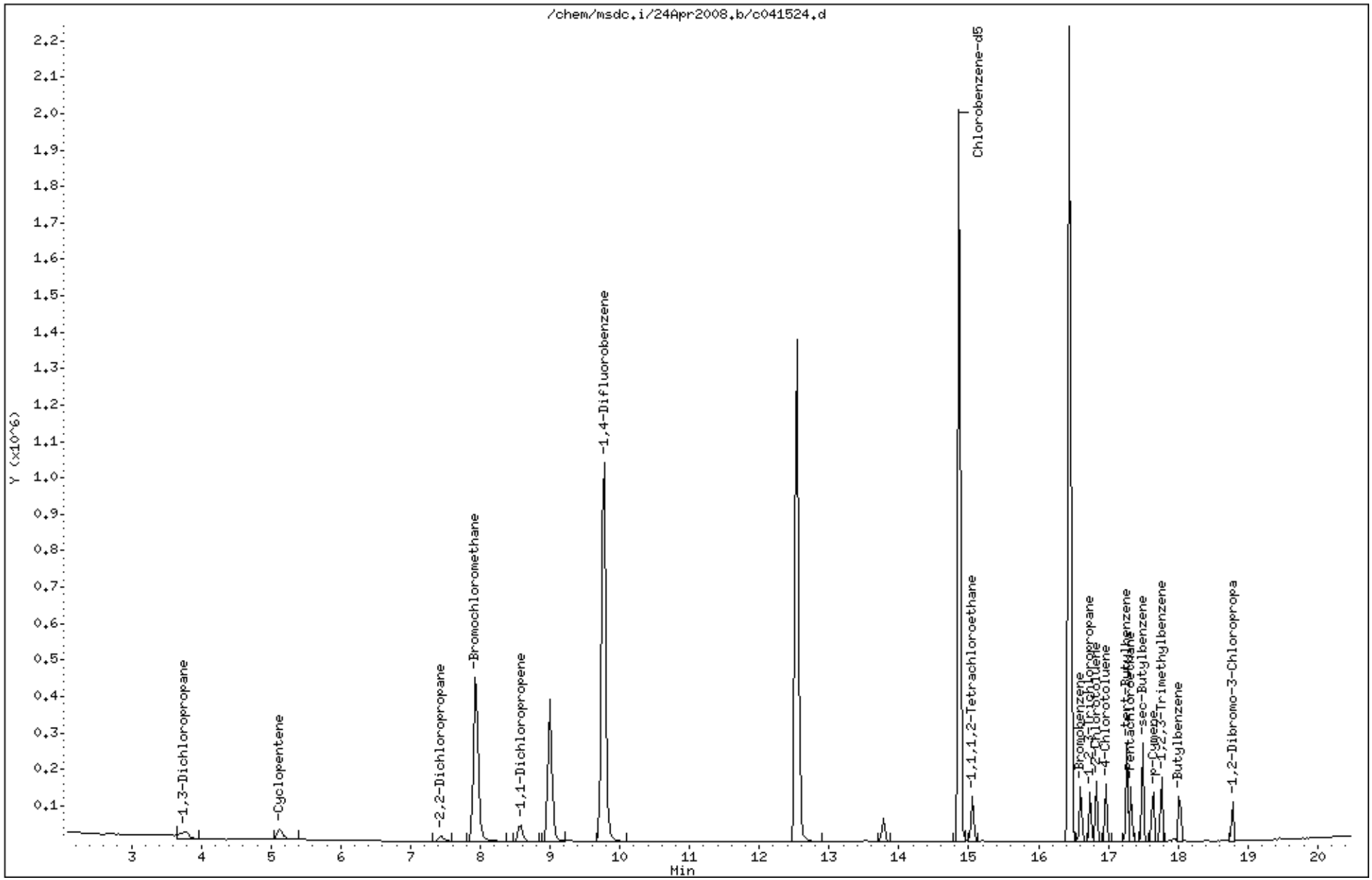
0264

Data File: /chem/msdc.i/24Apr2008.b/c041524.d
Date : 16-APR-2008 10:58
Client ID:
Sample Info: 5ml,34399

Instrument: msdc.i

Operator: ly
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042415.d
Lab Smp Id: 1544-81C Client Smp ID: Level4
Inj Date : 24-APR-2008 15:44
Operator : ly Inst ID: msdc.i
Smp Info : 12.5mL,31443
Misc Info : 200ppbv>50ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 28-Apr-2008 05:43 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 15:44 Cal File: c042415.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	417547	400.000		80.00- 120.00	100.00
7.921	7.921 (1.000)	128	327002			48.74- 108.74	78.32
7.893	7.921 (1.000)	49	511574			89.05- 149.05	122.52
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.745 (1.000)	114	1843815	400.000		80.00- 120.00	100.00
9.746	9.745 (1.000)	88	331461			0.00- 47.75	17.98
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1571573	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	993223			0.00- 30.00	63.20
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.972	8.971 (1.133)	65	785847	400.000	386.43	80.00- 120.00	100.00
8.972	8.971 (1.133)	67	381775			0.00- 30.00	48.58
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.511	12.510 (1.284)	98	1845138	400.000	401.33	80.00- 120.00	100.00
12.511	12.510 (1.284)	70	218480			0.00- 30.00	11.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.511	12.510 (1.284)	100	1184817			0.00- 30.00	64.21
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1003593	400.000	400.65	80.00- 120.00	100.00
16.437	16.437 (1.106)	95	1515320			118.92- 178.92	150.99
16.437	16.437 (1.106)	176	973993			66.54- 126.54	97.05
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	64063	50.0000	56.326	80.00- 120.00	100.00
2.225	2.225 (0.281)	42	38638			0.00- 30.00	60.31
2.225	2.225 (0.281)	39	50767			0.00- 30.00	79.25
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	275350	50.0000	54.420	80.00- 120.00	100.00
2.280	2.280 (0.288)	87	89103			0.00- 30.00	32.36
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	210949	50.0000	56.040	80.00- 120.00	100.00
2.446	2.446 (0.309)	137	68632			1.97- 61.97	32.53
10 Chloromethane					CAS #: 74-87-3		
2.529	2.529 (0.319)	50	109290	50.0000	57.871	80.00- 120.00	100.00
2.529	2.529 (0.319)	52	28897			0.00- 30.00	26.44
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	108200	50.0000	58.919	80.00- 120.00	100.00
2.695	2.695 (0.340)	64	37530			0.00- 30.00	34.69
12 1,3-Butadiene					CAS #: 106-99-0		
2.723	2.750 (0.344)	54	55823	50.0000	52.828	80.00- 120.00	100.00(M)
2.280	2.723 (0.288)	39	0			0.00- 30.00	0.00
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	65174	50.0000	54.430	80.00- 120.00	100.00
3.193	3.193 (0.403)	96	61422			61.22- 121.22	94.24
19 Chloroethane					CAS #: 75-00-3		
3.331	3.358 (0.421)	64	36262	50.0000	44.856	80.00- 120.00	100.00
3.359	3.358 (0.424)	49	9986			0.00- 30.00	27.54
3.331	3.358 (0.421)	66	12529			0.00- 30.00	34.55
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.635	3.635 (0.459)	101	357356	50.0000	57.823	80.00- 120.00	100.00
3.635	3.635 (0.459)	103	232182			33.86- 93.86	64.97

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.022	4.022 (0.508)	45	36274	50.0000	57.634	80.00- 120.00	100.00
4.022	4.022 (0.508)	43	14038			0.00- 30.00	38.70
3.995	4.022 (0.504)	46	16021			0.00- 30.00	44.17
30 Freon 113					CAS #: 76-13-1		
4.437	4.464 (0.560)	151	164705	50.0000	59.839	80.00- 120.00	100.00
4.437	4.464 (0.560)	153	106063			32.85- 92.85	64.40
4.437	4.437 (0.560)	101	181688			74.79- 134.79	110.31
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.465	4.464 (0.564)	61	208756	50.0000	53.875	80.00- 120.00	100.00
4.465	4.464 (0.564)	96	117893			25.95- 85.95	56.47
4.465	4.464 (0.564)	98	75917			5.66- 65.66	36.37
32 Acetone					CAS #: 67-64-1		
4.631	4.658 (0.585)	58	50576	50.0000	55.410	80.00- 120.00	100.00
4.631	4.658 (0.585)	43	178554			0.00- 30.00	353.04
36 2-Propanol					CAS #: 67-63-0		
4.824	4.852 (0.609)	45	159789	50.0000	52.907	80.00- 120.00	100.00
4.824	4.852 (0.609)	43	48749			0.00- 30.00	30.51
4.824	4.852 (0.609)	59	7926			0.00- 30.00	4.96
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	296635	50.0000	57.960	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	51881	50.0000	44.869	80.00- 120.00	100.00
5.073	5.073 (0.640)	41	124664			0.00- 30.00	240.29
43 Methylene Chloride					CAS #: 75-09-2		
5.322	5.349 (0.672)	49	113011	50.0000	52.398	80.00- 120.00	100.00
5.349	5.349 (0.675)	84	97557			55.67- 115.67	86.33
5.322	5.349 (0.672)	51	34565			0.00- 30.00	30.59
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.488	5.487 (0.693)	59	153893	50.0000	61.900	80.00- 120.00	100.00
5.488	5.487 (0.693)	41	34684			0.00- 30.00	22.54
5.488	5.487 (0.693)	57	17893			0.00- 30.00	11.63
46 MTBE					CAS #: 1634-04-4		
5.654	5.653 (0.714)	73	175947	50.0000	71.255	80.00- 120.00	100.00
5.654	5.653 (0.714)	57	31713			0.00- 48.79	18.02
5.626	5.653 (0.710)	41	36264			0.00- 30.00	20.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
47 trans-1,2-Dichloroethene						CAS #: 156-60-5	
5.681	5.709 (0.717)	96	116544	50.0000	54.510	80.00- 120.00	100.00
5.681	5.681 (0.717)	61	172622			119.69- 179.69	148.12
5.681	5.709 (0.717)	98	75242			0.00- 30.00	64.56
51 Hexane						CAS #: 110-54-3	
5.985	6.013 (0.756)	57	218984	50.0000	67.565	80.00- 120.00	100.00
5.985	6.013 (0.756)	43	135198			0.00- 30.00	61.74
6.013	6.013 (0.759)	86	44900			0.00- 30.00	20.50
55 1,1-Dichloroethane						CAS #: 75-34-3	
6.483	6.483 (0.818)	63	201495	50.0000	53.670	80.00- 120.00	100.00
6.455	6.483 (0.815)	65	70117			1.47- 61.47	34.80
67 2-Butanone						CAS #: 78-93-3	
7.534	7.534 (0.951)	72	54622	50.0000	53.866	80.00- 120.00	100.00
7.534	7.534 (0.951)	43	201411			333.51- 393.51	368.74
7.534	7.534 (0.951)	57	17046			0.00- 30.00	31.21
66 cis-1,2-Dichloroethene						CAS #: 156-59-2	
7.478	7.478 (0.944)	61	161024	50.0000	55.146	80.00- 120.00	100.00
7.478	7.478 (0.944)	96	114720			42.16- 102.16	71.24
7.478	7.478 (0.944)	98	75434			15.86- 75.86	46.85
70 Tetrahydrofuran						CAS #: 109-99-9	
7.893	7.893 (0.996)	42	105494	50.0000	54.188	80.00- 120.00	100.00
7.893	7.893 (0.996)	71	46949			17.18- 77.18	44.50
7.893	7.893 (0.996)	72	52341			0.00- 30.00	49.62
72 Chloroform						CAS #: 67-66-3	
8.031	8.031 (1.014)	83	265211	50.0000	54.685	80.00- 120.00	100.00
8.031	8.031 (1.014)	85	173894			33.60- 93.60	65.57
75 1,1,1-Trichloroethane						CAS #: 71-55-6	
8.280	8.280 (1.045)	97	287384	50.0000	59.266	80.00- 120.00	100.00
8.280	8.280 (1.045)	99	183591			32.77- 92.77	63.88
74 Cyclohexane						CAS #: 110-82-7	
8.225	8.225 (1.038)	84	159139	50.0000	58.086	80.00- 120.00	100.00
8.225	8.225 (1.038)	56	163732			74.35- 134.35	102.89
8.225	8.225 (1.038)	41	92300			29.63- 89.63	58.00
56 Vinyl Acetate						CAS #: 108-05-4	
6.538	6.538 (0.825)	86	29115	50.0000	50.862	80.00- 120.00	100.00
6.538	6.538 (0.825)	43	256110			0.00- 30.00	879.65
6.538	6.538 (0.825)	42	26343			0.00- 30.00	90.48

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.474	8.501 (1.070)	119	303211	50.0000	56.034	80.00- 120.00	100.00
8.474	8.501 (1.070)	117	316583			74.30- 134.30	104.41
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.889	8.888 (1.122)	57	502711	50.0000	54.911	80.00- 120.00	100.00
8.889	8.888 (1.122)	56	153167			0.00- 30.00	30.47
8.889	8.888 (1.122)	41	153004			0.00- 30.00	30.44
81 Benzene					CAS #: 71-43-2		
8.916	8.916 (0.915)	78	336510	50.0000	55.560	80.00- 120.00	100.00
8.916	8.916 (0.915)	77	77984			0.00- 30.00	23.17
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.110	9.110 (0.935)	62	203077	50.0000	56.444	80.00- 120.00	100.00
9.110	9.110 (0.935)	64	69828			0.00- 30.00	34.38
90 Heptane					CAS #: 142-82-5		
9.276	9.275 (0.952)	100	55125	50.0000	67.329	80.00- 120.00	100.00
9.276	9.275 (0.952)	43	235552			0.00- 30.00	427.31
9.276	9.275 (0.952)	71	162020			0.00- 30.00	293.91
93 Trichloroethene					CAS #: 79-01-6		
10.133	10.133 (1.040)	95	161664	50.0000	55.069	80.00- 120.00	100.00
10.133	10.160 (1.040)	130	151534			65.39- 125.39	93.73
10.133	10.133 (1.040)	97	102755			34.09- 94.09	63.56
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.658	10.686 (1.094)	63	106807	50.0000	54.994	80.00- 120.00	100.00
10.658	10.686 (1.094)	62	70633			40.41- 100.41	66.13
10.658	10.686 (1.094)	41	80454			42.79- 102.79	75.33
99 1,4-Dioxane					CAS #: 123-91-1		
10.907	10.907 (1.119)	88	73794	50.0000	53.662	80.00- 120.00	100.00
10.907	10.907 (1.119)	58	48915			35.04- 95.04	66.29
10.907	10.907 (1.119)	57	16689			0.00- 30.00	22.62
100 Bromodichloromethane					CAS #: 75-27-4		
11.211	11.239 (1.150)	83	269069	50.0000	53.397	80.00- 120.00	100.00
11.239	11.239 (1.153)	85	173100			34.08- 94.08	64.33
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.151	12.151 (1.247)	75	179264	50.0000	52.300	80.00- 120.00	100.00
12.151	12.151 (1.247)	77	55526			0.86- 60.86	30.97
12.151	12.151 (1.247)	39	98036			24.35- 84.35	54.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	45317	50.0000	50.368	80.00- 120.00	100.00
12.455	12.455 (1.278)	43	217412			0.00- 30.00	479.76
12.455	12.455 (1.278)	58	98347			0.00- 30.00	217.02
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	415231	50.0000	55.678	80.00- 120.00	100.00
12.649	12.649 (1.298)	92	237027			28.07- 88.07	57.08
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.230	13.229 (0.890)	75	201129	50.0000	51.746	80.00- 120.00	100.00
13.230	13.229 (0.890)	77	64298			0.00- 60.00	31.97
13.230	13.229 (0.890)	39	96019			16.18- 76.18	47.74
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	132491	50.0000	53.568	80.00- 120.00	100.00
13.506	13.506 (0.909)	99	79914			31.16- 91.16	60.32
13.506	13.506 (0.909)	83	104739			50.03- 110.03	79.05
116 Tetrachloroethene					CAS #: 127-18-4		
13.506	13.506 (0.909)	166	189967	50.0000	54.176	80.00- 120.00	100.00
13.506	13.506 (0.909)	129	156470			52.73- 112.73	82.37
13.506	13.506 (0.909)	131	150793			48.38- 108.38	79.38
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	110191	50.0000	50.857	80.00- 120.00	100.00
13.893	13.893 (0.935)	43	206102			156.81- 216.81	187.04
13.893	13.893 (0.935)	100	28385			0.00- 30.00	25.76
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	247157	50.0000	52.943	80.00- 120.00	100.00
14.059	14.059 (0.946)	127	193650			0.00- 30.00	78.35
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	203567	50.0000	52.324	80.00- 120.00	100.00
14.225	14.225 (0.957)	109	192505			62.95- 122.95	94.57
126 Chlorobenzene					CAS #: 108-90-7		
14.889	14.888 (1.002)	112	322558	50.0000	54.017	80.00- 120.00	100.00
14.889	14.888 (1.002)	114	102739			2.29- 62.29	31.85
14.889	14.888 (1.002)	77	230597			35.81- 95.81	71.49
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	163106	50.0000	52.640	80.00- 120.00	100.00
15.027	15.027 (1.011)	91	562185			0.00- 30.00	344.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.192 (1.022)	106	205696	50.0000	52.645	80.00- 120.00	100.00
15.193	15.192 (1.022)	91	481519			0.00- 30.00	234.09
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	194275	50.0000	53.115	80.00- 120.00	100.00
15.718	15.718 (1.058)	91	473185			220.82- 280.82	243.56
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	305195	50.0000	54.596	80.00- 120.00	100.00
15.773	15.773 (1.061)	78	190518			31.74- 91.74	62.43
134 Bromoform					CAS #: 75-25-2		
16.022	16.050 (1.078)	173	217820	50.0000	51.399	80.00- 120.00	100.00
16.022	16.050 (1.078)	171	110849			21.07- 81.07	50.89
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	256035	50.0000	52.261	80.00- 120.00	100.00
16.686	16.686 (1.123)	85	164217			33.63- 93.63	64.14
144 4-Ethyltoluene					CAS #: 622-96-8		
16.852	16.851 (1.134)	105	629132	50.0000	58.474	80.00- 120.00	100.00
16.852	16.851 (1.134)	120	177164			0.00- 57.92	28.16
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.935	16.934 (1.140)	105	559974	50.0000	57.981	80.00- 120.00	100.00
16.935	16.934 (1.140)	120	247154			0.00- 30.00	44.14
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.321 (1.166)	105	582862	50.0000	59.171	80.00- 120.00	100.00
17.322	17.321 (1.166)	120	232346			9.81- 69.81	39.86
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	307669	50.0000	51.915	80.00- 120.00	100.00
17.626	17.626 (1.186)	148	197717			0.00- 30.00	64.26
17.626	17.626 (1.186)	111	153090			0.00- 30.00	49.76
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	371989	50.0000	57.565	80.00- 120.00	100.00
17.736	17.736 (1.193)	148	242127			0.00- 30.00	65.09
17.736	17.736 (1.193)	111	154583			0.00- 30.00	41.56
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.874 (1.203)	91	492449	50.0000	54.068	80.00- 120.00	100.00
17.875	17.874 (1.203)	126	84620			0.00- 30.00	17.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	286887	50.0000	53.977	80.00- 120.00	100.00
18.096	18.096 (1.218)	148	183150			34.14- 94.14	63.84
18.096	18.096 (1.218)	111	132678			14.99- 74.99	46.25
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.368	19.395 (1.303)	180	175941	50.0000	52.931	80.00- 120.00	100.00
19.368	19.395 (1.303)	182	176661			64.84- 124.84	100.41
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.451	19.450 (1.309)	225	200432	50.0000	57.665	80.00- 120.00	100.00
19.451	19.450 (1.309)	223	123399			33.24- 93.24	61.57
142 Propylbenzene					CAS #: 103-65-1		
16.713	16.713 (1.125)	91	727712	50.0000	57.887	80.00- 120.00	100.00
16.713	16.713 (1.125)	120	160125			0.00- 30.00	22.00
16.713	16.713 (1.125)	105	25057			0.00- 30.00	3.44
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	651766	50.0000	60.140	80.00- 120.00	100.00
16.188	16.188 (1.089)	120	160108			0.00- 30.00	24.57
16.188	16.188 (1.089)	51	56727			0.00- 30.00	8.70
165 Naphthalene					CAS #: 91-20-3		
19.561	19.561 (1.316)	128	382490	50.0000	50.354	80.00- 120.00	100.00
19.561	19.561 (1.316)	127	47732			0.00- 30.00	12.48
17 Isopentane					CAS #: 78-78-4		
3.331	3.331 (0.421)	43	116997	50.0000	72.247	80.00- 120.00	100.00
3.331	3.331 (0.421)	57	83475			0.00- 30.00	71.35
3.331	3.331 (0.421)	72	11318			0.00- 30.00	9.67
11 Butane					CAS #: 106-97-8		
2.640	2.667 (0.333)	58	29021	50.0000	74.860	80.00- 120.00	100.00(M)
2.446	2.667 (0.309)	43	0			0.00- 30.00	0.00
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.354	10.354 (1.062)	83	213128	50.0000	55.463	80.00- 120.00	100.00
10.354	10.354 (1.062)	98	105046			0.00- 30.00	49.29
10.326	10.354 (1.060)	55	159670			0.00- 30.00	74.92

QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042415.d
Lab Smp Id: 1544-81C
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv>50ppbv

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: Level4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	417547	0.70
92 1,4-Difluorobenze	1880051	1128031	2632071	1843815	-1.93
125 Chlorobenzene-d5	1629476	977686	2281266	1571573	-3.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdc.i/24Apr2008.b/c042415.d

Date : 24-APR-2008 15:44

Client ID: Level4

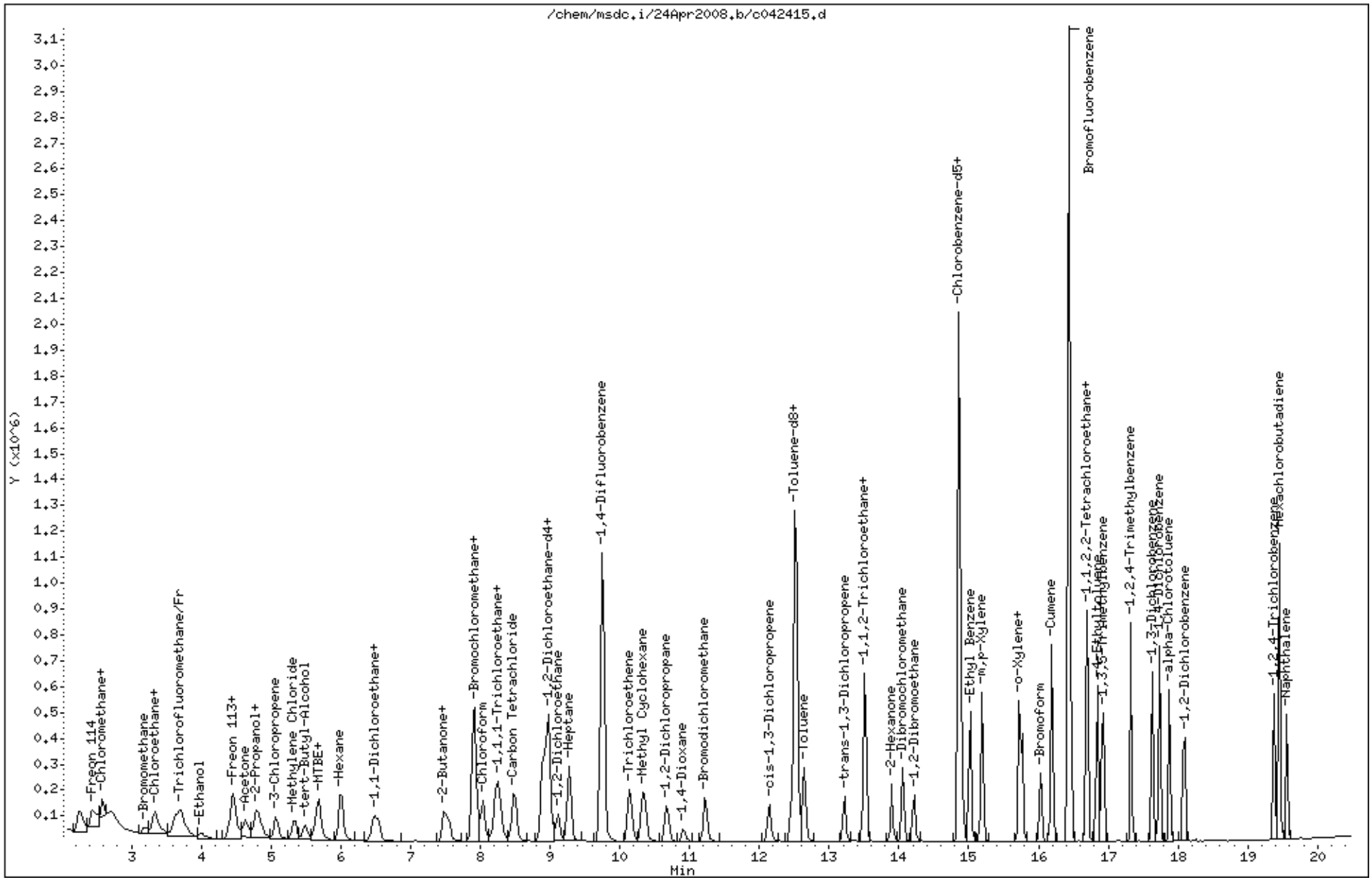
Sample Info: 12.5mL,31443

Column phase: RTx-624

Instrument: msdc.i

Operator: ly

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042416.d
Lab Smp Id: 1544-81C Client Smp ID: Level5
Inj Date : 24-APR-2008 16:17
Operator : ly Inst ID: msdc.i
Smp Info : 25mL,31443
Misc Info : 200ppbv>100ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:51 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 16:17 Cal File: c042416.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	417053	400.000		70.00- 130.00	100.00
7.921	7.921 (1.000)	128	323763			48.74- 108.74	77.63
7.921	7.921 (1.000)	49	529582			89.05- 149.05	126.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1862667	400.000		70.00- 130.00	100.00
9.746	9.746 (1.000)	88	332949			0.00- 47.75	17.87
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1582951	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	1009939			0.00- 30.00	63.80
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.971	8.971 (1.133)	65	789339	400.000	386.50	70.00- 130.00	100.00
8.971	8.971 (1.133)	67	380299			0.00- 30.00	48.18
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.511	12.511 (1.284)	98	1868500	400.000	400.61	70.00- 130.00	100.00
12.511	12.511 (1.284)	70	221924			0.00- 30.00	11.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.511	12.511 (1.284)	100	1220123			0.00- 30.00	65.30
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1028526	400.000	406.26	70.00- 130.00	100.00
16.437	16.437 (1.106)	95	1563161			118.92- 178.92	151.98
16.437	16.437 (1.106)	176	1005846			66.54- 126.54	97.79
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	119917	100.000	105.56	70.00- 130.00	100.00
2.225	2.225 (0.281)	42	78273			0.00- 30.00	65.27
2.225	2.225 (0.281)	39	99747			0.00- 30.00	83.18
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	513643	100.000	101.64	70.00- 130.00	100.00
2.280	2.280 (0.288)	87	164269			0.00- 30.00	31.98
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	389403	100.000	103.57	70.00- 130.00	100.00
2.446	2.446 (0.309)	137	122508			1.97- 61.97	31.46
10 Chloromethane					CAS #: 74-87-3		
2.529	2.529 (0.319)	50	197456	100.000	104.68	70.00- 130.00	100.00
2.529	2.529 (0.319)	52	52479			0.00- 30.00	26.58
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	196964	100.000	107.38	70.00- 130.00	100.00
2.695	2.695 (0.340)	64	65576			0.00- 30.00	33.29
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.347)	54	103221	100.000	100.52	70.00- 130.00	100.00(M)
2.280	2.280 (0.288)	39	0			0.00- 30.00	0.00
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	126215	100.000	105.53	70.00- 130.00	100.00
3.193	3.193 (0.403)	96	119247			61.22- 121.22	94.48
19 Chloroethane					CAS #: 75-00-3		
3.359	3.359 (0.424)	64	86676	100.000	107.34	70.00- 130.00	100.00
3.331	3.331 (0.421)	49	21099			0.00- 30.00	24.34
3.359	3.359 (0.424)	66	26334			0.00- 30.00	30.38
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.635	3.635 (0.459)	101	649114	100.000	105.16	70.00- 130.00	100.00
3.635	3.635 (0.459)	103	428350			33.86- 93.86	65.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.022	4.022 (0.508)	45	67816	100.000	107.88	70.00- 130.00	100.00
4.022	4.022 (0.508)	43	21507			0.00- 30.00	31.71
3.995	3.995 (0.504)	46	25940			0.00- 30.00	38.25
30 Freon 113					CAS #: 76-13-1		
4.437	4.437 (0.560)	151	303179	100.000	110.28	70.00- 130.00	100.00
4.437	4.437 (0.560)	153	188771			32.96- 92.96	62.26
4.437	4.437 (0.560)	101	330985			75.50- 135.50	109.17
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.465	4.465 (0.564)	61	400702	100.000	103.53	70.00- 130.00	100.00
4.465	4.465 (0.564)	96	218137			25.95- 85.95	54.44
4.465	4.465 (0.564)	98	138520			5.66- 65.66	34.57
32 Acetone					CAS #: 67-64-1		
4.631	4.631 (0.585)	58	99899	100.000	109.58	70.00- 130.00	100.00
4.631	4.631 (0.585)	43	318358			0.00- 30.00	318.68
36 2-Propanol					CAS #: 67-63-0		
4.824	4.824 (0.609)	45	313721	100.000	104.00	70.00- 130.00	100.00
4.852	4.852 (0.613)	43	85808			0.00- 30.00	27.35
4.824	4.824 (0.609)	59	11775			0.00- 30.00	3.75
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	546991	100.000	107.00	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	101697	100.000	88.056	70.00- 130.00	100.00
5.073	5.073 (0.640)	41	227893			0.00- 30.00	224.09
43 Methylene Chloride					CAS #: 75-09-2		
5.322	5.322 (0.672)	49	205626	100.000	95.452	70.00- 130.00	100.00
5.349	5.349 (0.675)	84	176815			55.75- 115.75	85.99
5.349	5.349 (0.675)	51	61429			0.00- 30.00	29.87
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.488	5.488 (0.693)	59	258639	100.000	104.15	70.00- 130.00	100.00
5.488	5.488 (0.693)	41	56351			0.00- 30.00	21.79
5.488	5.488 (0.693)	57	28470			0.00- 30.00	11.01
46 MTBE					CAS #: 1634-04-4		
5.654	5.654 (0.714)	73	296891	100.000	120.38	70.00- 130.00	100.00
5.654	5.654 (0.714)	57	56330			0.00- 48.79	18.97
5.654	5.654 (0.714)	41	59899			0.00- 30.00	20.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
47 trans-1,2-Dichloroethene						CAS #: 156-60-5	
5.681	5.681 (0.717)	96	219019	100.000	102.56	70.00- 130.00	100.00
5.681	5.681 (0.717)	61	325283			119.68- 179.68	148.52
5.681	5.681 (0.717)	98	140666			0.00- 30.00	64.23
51 Hexane						CAS #: 110-54-3	
6.013	6.013 (0.759)	57	330606	100.000	102.12	70.00- 130.00	100.00
6.013	6.013 (0.759)	43	196515			0.00- 30.00	59.44
6.013	6.013 (0.759)	86	66605			0.00- 30.00	20.15
55 1,1-Dichloroethane						CAS #: 75-34-3	
6.483	6.483 (0.818)	63	403030	100.000	107.48	70.00- 130.00	100.00
6.483	6.483 (0.818)	65	126163			1.47- 61.47	31.30
67 2-Butanone						CAS #: 78-93-3	
7.534	7.534 (0.951)	72	103874	100.000	102.56	70.00- 130.00	100.00
7.534	7.534 (0.951)	43	368385			333.51- 393.51	354.65
7.534	7.534 (0.951)	57	32348			0.00- 30.00	31.14
66 cis-1,2-Dichloroethene						CAS #: 156-59-2	
7.478	7.478 (0.944)	61	295252	100.000	101.24	70.00- 130.00	100.00
7.478	7.478 (0.944)	96	212429			42.16- 102.16	71.95
7.478	7.478 (0.944)	98	135996			15.86- 75.86	46.06
70 Tetrahydrofuran						CAS #: 109-99-9	
7.893	7.893 (0.996)	42	196140	100.000	100.87	70.00- 130.00	100.00
7.893	7.893 (0.996)	71	93239			17.18- 77.18	47.54
7.893	7.893 (0.996)	72	97495			0.00- 30.00	49.71
72 Chloroform						CAS #: 67-66-3	
8.031	8.031 (1.014)	83	492507	100.000	101.67	70.00- 130.00	100.00
8.031	8.031 (1.014)	85	315334			33.60- 93.60	64.03
75 1,1,1-Trichloroethane						CAS #: 71-55-6	
8.280	8.280 (1.045)	97	531639	100.000	109.77	70.00- 130.00	100.00
8.280	8.280 (1.045)	99	334339			32.77- 92.77	62.89
74 Cyclohexane						CAS #: 110-82-7	
8.225	8.225 (1.038)	84	301573	100.000	110.20	70.00- 130.00	100.00
8.225	8.225 (1.038)	56	301252			74.35- 134.35	99.89
8.225	8.225 (1.038)	41	175502			29.63- 89.63	58.20
56 Vinyl Acetate						CAS #: 108-05-4	
6.538	6.538 (0.825)	86	56782	100.000	99.313	70.00- 130.00	100.00
6.538	6.538 (0.825)	43	495921			0.00- 30.00	873.38
6.538	6.538 (0.825)	42	49541			0.00- 30.00	87.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
77 Carbon Tetrachloride						CAS #: 56-23-5	
8.501	8.501 (1.073)	119	558389	100.000	103.31	70.00- 130.00	100.00
8.501	8.501 (1.073)	117	590533			74.30- 134.30	105.76
80 2,2,4-Trimethylpentane						CAS #: 540-84-1	
8.889	8.889 (1.122)	57	943058	100.000	103.13	70.00- 130.00	100.00
8.889	8.889 (1.122)	56	283367			0.00- 30.00	30.05
8.889	8.889 (1.122)	41	284880			0.00- 30.00	30.21
81 Benzene						CAS #: 71-43-2	
8.916	8.916 (0.915)	78	627194	100.000	102.51	70.00- 130.00	100.00
8.916	8.916 (0.915)	77	152452			0.00- 30.00	24.31
85 1,2-Dichloroethane						CAS #: 107-06-2	
9.110	9.110 (0.935)	62	374355	100.000	103.00	70.00- 130.00	100.00
9.110	9.110 (0.935)	64	122951			0.00- 30.00	32.84
90 Heptane						CAS #: 142-82-5	
9.276	9.276 (0.952)	100	78152	100.000	94.488	70.00- 130.00	100.00
9.276	9.276 (0.952)	43	341294			0.00- 30.00	436.71
9.276	9.276 (0.952)	71	236563			0.00- 30.00	302.70
93 Trichloroethene						CAS #: 79-01-6	
10.133	10.133 (1.040)	95	298890	100.000	100.78	70.00- 130.00	100.00
10.133	10.133 (1.040)	130	277179			65.39- 125.39	92.74
10.133	10.133 (1.040)	97	190219			34.09- 94.09	63.64
98 1,2-Dichloropropane						CAS #: 78-87-5	
10.686	10.686 (1.096)	63	198700	100.000	101.27	70.00- 130.00	100.00
10.686	10.686 (1.096)	62	134722			40.41- 100.41	67.80
10.658	10.658 (1.094)	41	143141			42.79- 102.79	72.04
99 1,4-Dioxane						CAS #: 123-91-1	
10.907	10.907 (1.119)	88	137658	100.000	99.089	70.00- 130.00	100.00
10.907	10.907 (1.119)	58	89551			35.04- 95.04	65.05
10.907	10.907 (1.119)	57	30263			0.00- 30.00	21.98
100 Bromodichloromethane						CAS #: 75-27-4	
11.239	11.239 (1.153)	83	512730	100.000	100.72	70.00- 130.00	100.00
11.239	11.239 (1.153)	85	327399			34.08- 94.08	63.85
103 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
12.151	12.151 (1.247)	75	347061	100.000	100.23	70.00- 130.00	100.00
12.151	12.151 (1.247)	77	106668			0.86- 60.86	30.73
12.151	12.151 (1.247)	39	190798			24.35- 84.35	54.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	90447	100.000	99.510	70.00- 130.00	100.00
12.455	12.455 (1.278)	43	407580			0.00- 30.00	450.63
12.455	12.455 (1.278)	58	172862			0.00- 30.00	191.12
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	761347	100.000	101.05	70.00- 130.00	100.00
12.649	12.649 (1.298)	92	442638			28.07- 88.07	58.14
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.229	13.229 (0.890)	75	379521	100.000	96.942	70.00- 130.00	100.00
13.229	13.229 (0.890)	77	122009			0.00- 60.00	32.15
13.229	13.229 (0.890)	39	179574			16.18- 76.18	47.32
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	242995	100.000	97.541	70.00- 130.00	100.00
13.506	13.506 (0.909)	99	153220			31.16- 91.16	63.05
13.506	13.506 (0.909)	83	202130			50.03- 110.03	83.18
116 Tetrachloroethene					CAS #: 127-18-4		
13.506	13.506 (0.909)	166	344168	100.000	97.447	70.00- 130.00	100.00
13.506	13.506 (0.909)	129	288652			52.73- 112.73	83.87
13.506	13.506 (0.909)	131	270636			48.38- 108.38	78.63
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	215105	100.000	98.564	70.00- 130.00	100.00
13.893	13.893 (0.935)	43	396192			156.81- 216.81	184.19
13.893	13.893 (0.935)	100	55690			0.00- 30.00	25.89
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	472896	100.000	100.57	70.00- 130.00	100.00
14.059	14.059 (0.946)	127	363370			0.00- 30.00	76.84
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	381642	100.000	97.391	70.00- 130.00	100.00
14.225	14.225 (0.957)	109	354445			62.95- 122.95	92.87
126 Chlorobenzene					CAS #: 108-90-7		
14.888	14.888 (1.002)	112	599972	100.000	99.752	70.00- 130.00	100.00
14.888	14.888 (1.002)	114	190048			2.29- 62.29	31.68
14.888	14.888 (1.002)	77	416253			35.81- 95.81	69.38
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	305284	100.000	97.818	70.00- 130.00	100.00
15.027	15.027 (1.011)	91	1078104			0.00- 30.00	353.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.193 (1.022)	106	388861	100.000	98.808	70.00- 130.00	100.00
15.193	15.193 (1.022)	91	895937			0.00- 30.00	230.40
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	369893	100.000	100.40	70.00- 130.00	100.00
15.718	15.718 (1.058)	91	903375			220.82- 280.82	244.23
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	584525	100.000	103.81	70.00- 130.00	100.00
15.773	15.773 (1.061)	78	366260			31.74- 91.74	62.66
134 Bromoform					CAS #: 75-25-2		
16.022	16.022 (1.078)	173	423451	100.000	99.204	70.00- 130.00	100.00
16.022	16.022 (1.078)	171	219323			21.07- 81.07	51.79
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	492379	100.000	99.781	70.00- 130.00	100.00
16.686	16.686 (1.123)	85	324156			33.63- 93.63	65.83
144 4-Ethyltoluene					CAS #: 622-96-8		
16.852	16.852 (1.134)	105	1219243	100.000	112.51	70.00- 130.00	100.00
16.852	16.852 (1.134)	120	338633			0.00- 57.92	27.77
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.935	16.935 (1.140)	105	1038777	100.000	106.78	70.00- 130.00	100.00
16.935	16.935 (1.140)	120	454129			0.00- 30.00	43.72
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.322 (1.166)	105	1099074	100.000	110.77	70.00- 130.00	100.00
17.322	17.322 (1.166)	120	442249			9.81- 69.81	40.24
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	587863	100.000	98.482	70.00- 130.00	100.00
17.626	17.626 (1.186)	148	369932			0.00- 30.00	62.93
17.626	17.626 (1.186)	111	287096			0.00- 30.00	48.84
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	694790	100.000	106.74	70.00- 130.00	100.00
17.736	17.736 (1.193)	148	445821			0.00- 30.00	64.17
17.736	17.736 (1.193)	111	290507			0.00- 30.00	41.81
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.875 (1.203)	91	980767	100.000	106.91	70.00- 130.00	100.00
17.875	17.875 (1.203)	126	174264			0.00- 30.00	17.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	548987	100.000	102.55	70.00- 130.00	100.00
18.096	18.096 (1.218)	148	350473			34.14- 94.14	63.84
18.096	18.096 (1.218)	111	247356			14.99- 74.99	45.06
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.368	19.368 (1.303)	180	355249	100.000	106.11	70.00- 130.00	100.00
19.368	19.368 (1.303)	182	330411			64.84- 124.84	93.01
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.451	19.451 (1.309)	225	375743	100.000	107.32	70.00- 130.00	100.00
19.451	19.451 (1.309)	223	232933			33.24- 93.24	61.99
142 Propylbenzene					CAS #: 103-65-1		
16.713	16.713 (1.125)	91	1402619	100.000	110.77	70.00- 130.00	100.00
16.713	16.713 (1.125)	120	310128			0.00- 30.00	22.11
16.713	16.713 (1.125)	105	54050			0.00- 30.00	3.85
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	1195993	100.000	109.56	70.00- 130.00	100.00
16.188	16.188 (1.089)	120	297772			0.00- 30.00	24.90
16.188	16.188 (1.089)	51	111595			0.00- 30.00	9.33
165 Naphthalene					CAS #: 91-20-3		
19.561	19.561 (1.316)	128	776043	100.000	101.43	70.00- 130.00	100.00
19.561	19.561 (1.316)	127	99898			0.00- 30.00	12.87
17 Isopentane					CAS #: 78-78-4		
3.331	3.331 (0.421)	43	161143	100.000	99.625	70.00- 130.00	100.00
3.331	3.331 (0.421)	57	124730			0.00- 30.00	77.40
3.331	3.331 (0.421)	72	16828			0.00- 30.00	10.44
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.337)	58	40737	100.000	105.20	70.00- 130.00	100.00(M)
2.474	2.474 (0.312)	43	5030			0.00- 30.00	12.35
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.354	10.354 (1.062)	83	390586	100.000	100.61	70.00- 130.00	100.00
10.354	10.354 (1.062)	98	192142			0.00- 30.00	49.19
10.326	10.326 (1.060)	55	296195			0.00- 30.00	75.83

QC Flag Legend

M - Compound response manually integrated.

Report Date: 25-Apr-2008 15:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042416.d
Lab Smp Id: 1544-81C
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv>100ppbv

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: Level5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	417053	0.58
92 1,4-Difluorobenze	1880051	1128031	2632071	1862667	-0.92
125 Chlorobenzene-d5	1629476	977686	2281266	1582951	-2.86

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

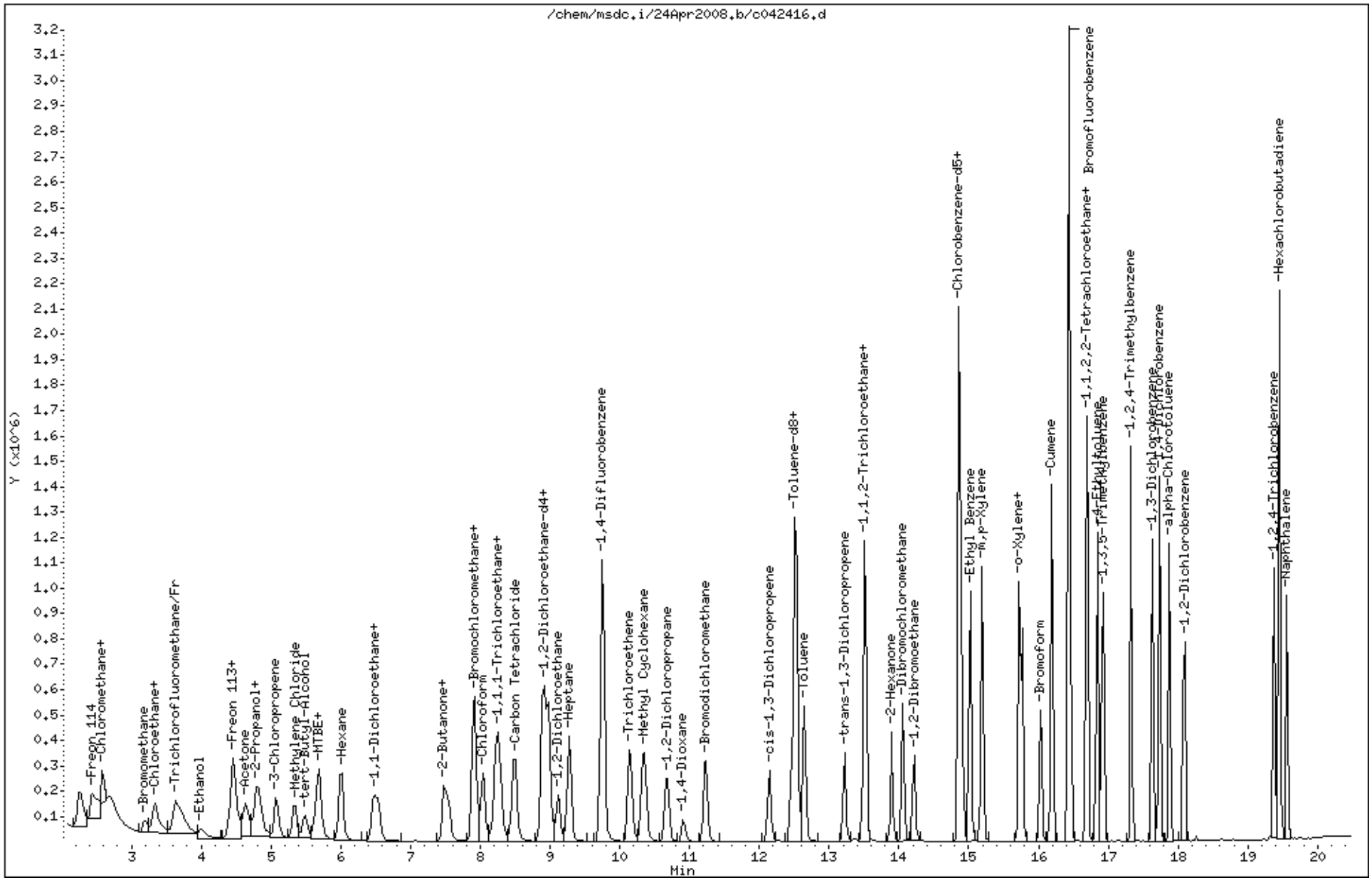
Data File: /chem/msdc.i/24Apr2008.b/c042416.d
Date : 24-APR-2008 16:17
Client ID: Level5
Sample Info: 25mL,31443

Instrument: msdc.i

Operator: ly
Column diameter: 0.53

Column phase: RTx-624

0284



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041608.d
Lab Smp Id: 1576-342, Sp1 Client Smp ID: Sp1
Inj Date : 16-APR-2008 19:03
Operator : ac Inst ID: msdc.i
Smp Info : 25mL,3761
Misc Info : 200ppbv->100ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:16 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 19:03 Cal File: c041608.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Spfrnosur-134a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane						CAS #: 74-97-5	
7.948	7.948 (1.000)	130	432081	400.000		70.00- 130.00	100.00
7.948	7.948 (1.000)	128	340142			44.75- 104.75	78.72
7.921	7.921 (1.000)	49	533184			93.77- 153.77	123.40
* 92 1,4-Difluorobenzene						CAS #: 540-36-3	
9.773	9.773 (1.000)	114	1836050	400.000		70.00- 130.00	100.00
9.773	9.773 (1.000)	88	322365			0.00- 46.99	17.56
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.861	14.861 (1.000)	117	1560133	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	934265			0.00- 30.00	59.88
3 Freon 152a						CAS #: 75-37-6	
2.253	2.253 (0.283)	65	109407	100.000	85.429	0.00- 30.00	100.00
2.280	2.280 (0.287)	51	454730			0.00- 30.00	415.63
4 Freon 22						CAS #: 75-45-6	
2.308	2.308 (0.290)	67	45179	100.000	88.891	0.00- 30.00	100.00
2.280	2.280 (0.287)	51	454730			0.00- 30.00	1006.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.690	3.690 (0.464)	67	312058	100.000	102.47	0.00- 30.00	100.00
3.690	3.690 (0.464)	69	103740			0.00- 30.00	33.24
3.663	3.663 (0.461)	35	2420			0.00- 30.00	0.78
49 Isopropyl ether					CAS #: 108-20-3		
6.455	6.455 (0.812)	45	587709	100.000	105.28	0.00- 30.00	100.00
6.455	6.455 (0.812)	87	164071			0.00- 30.00	27.92
6.455	6.455 (0.812)	59	64409			0.00- 30.00	10.96
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.064	7.064 (0.889)	59	531905	100.000	111.13	0.00- 30.00	100.00
7.091	7.091 (0.892)	87	250835			0.00- 30.00	47.16
7.064	7.064 (0.889)	41	91183			0.00- 30.00	17.14
61 Ethyl Acetate					CAS #: 141-78-6		
7.589	7.589 (0.955)	70	49667	100.000	110.11	0.00- 30.00	100.00
7.589	7.589 (0.955)	43	402005			0.00- 30.00	809.40
7.589	7.589 (0.955)	61	61532			0.00- 30.00	123.89
64 1-Propanol					CAS #: 71-23-8		
6.732	6.732 (0.847)	42	30222	100.000	113.77	0.00- 30.00	100.00
6.732	6.732 (0.847)	59	38458			0.00- 30.00	127.25
6.732	6.732 (0.847)	41	20344			0.00- 30.00	67.32
76 Isobutanol					CAS #: 78-83-1		
8.971	8.971 (0.918)	43	138548	100.000	107.00	0.00- 30.00	100.00
8.971	8.971 (0.918)	41	99772			0.00- 30.00	72.01
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.110	9.110 (1.146)	73	514268	100.000	98.286	0.00- 30.00	100.00
9.110	9.110 (1.146)	87	133544			0.00- 30.00	25.97
9.110	9.110 (1.146)	55	142738			0.00- 30.00	27.76
91 1-Butanol					CAS #: 71-36-3		
10.243	10.243 (1.048)	56	117231	100.000	118.14	0.00- 30.00	100.00
10.216	10.216 (1.045)	41	79818			0.00- 30.00	68.09
10.243	10.243 (1.048)	43	63935			0.00- 30.00	54.54
118 Butyl Acetate					CAS #: 123-86-4		
14.087	14.087 (1.441)	56	197074	100.000	102.00	0.00- 30.00	100.00
14.087	14.087 (1.441)	73	88270			0.00- 30.00	44.79
14.059	14.059 (1.438)	43	450742			0.00- 30.00	228.72
131 2-Heptanone					CAS #: 110-43-0		
15.994	15.994 (1.076)	58	299550	100.000	121.45	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 2-Heptanone (continued)							
15.967	15.967 (1.074)	43	453910			0.00- 30.00	151.53
135 Cyclohexanone					CAS #: 108-94-1		
16.409	16.409 (1.104)	55	246867	100.000	114.86	0.00- 30.00	100.00
16.409	16.409 (1.104)	98	123690			0.00- 30.00	50.10
16.409	16.409 (1.104)	42	170312			0.00- 30.00	68.99
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.100	17.100 (1.151)	57	661655	100.000	122.62	0.00- 30.00	100.00
17.100	17.100 (1.151)	85	566429			0.00- 30.00	85.61

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041608.d
Lab Smp Id: 1576-342, Sp1
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv->100ppbv

Calibration Date: 16-APR-2008
Calibration Time: 14:15
Client Smp ID: Sp1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	438847	263308	614386	432081	-1.54
92 1,4-Difluorobenze	2002397	1201438	2803356	1836050	-8.31
125 Chlorobenzene-d5	1615958	969575	2262341	1560133	-3.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.95	7.62	8.28	7.95	0.00
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

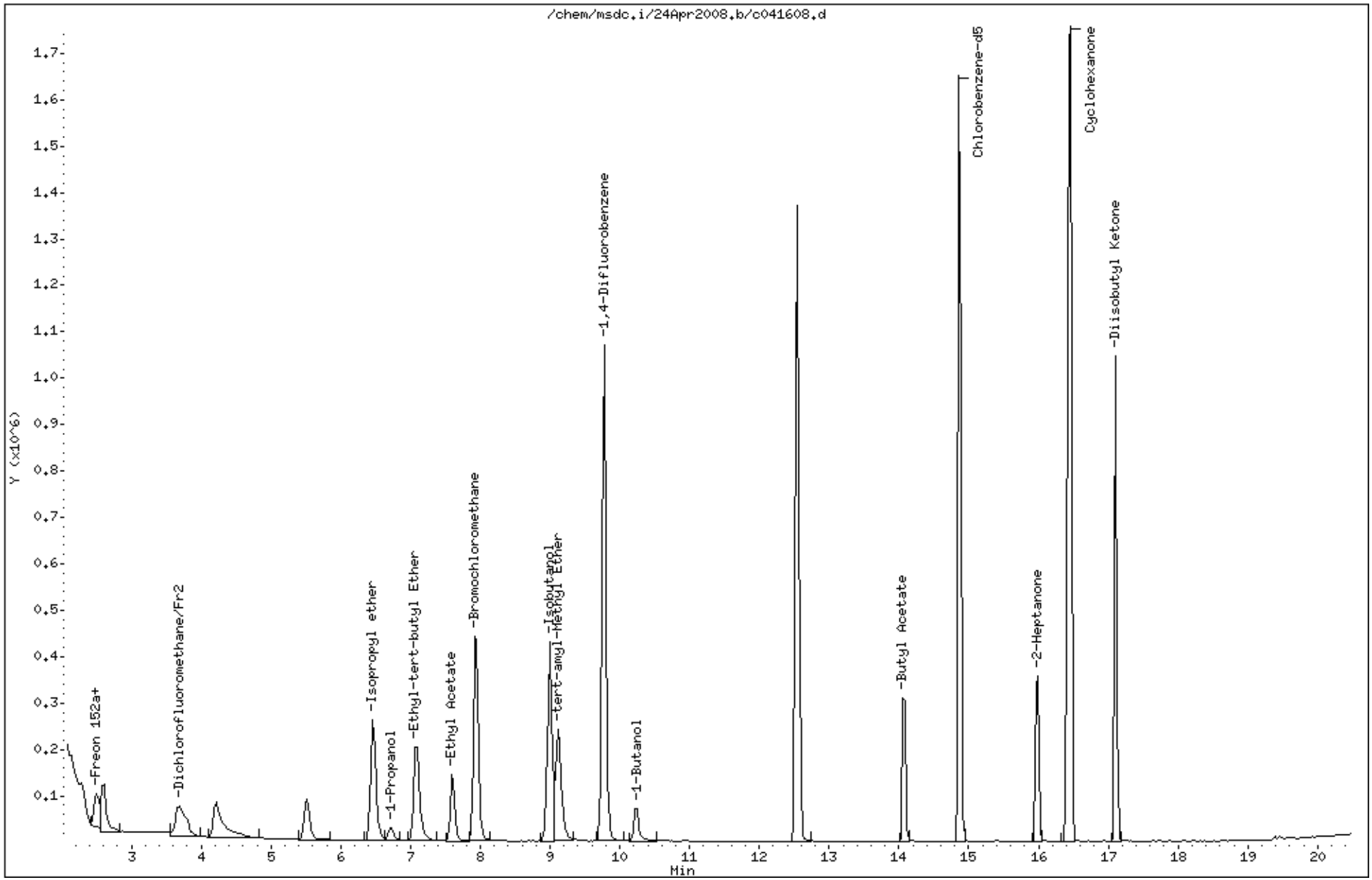
Data File: /chem/msdc.i/24Apr2008.b/c041608.d
Date : 16-APR-2008 19:03
Client ID: Sp1
Sample Info: 25mL,3761

Instrument: msdc.i

Operator: ac
Column diameter: 0.53

Column phase: RTx-624

0289



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041529.d
Lab Smp Id: 1576-319
Inj Date : 16-APR-2008 13:48
Operator : ac Inst ID: msdc.i
Smp Info : 25ml,33376
Misc Info : 200ppbv->100ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:16 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 13:48 Cal File: c041529.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Dibromnosurr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane						CAS #: 74-97-5	
7.921	7.921 (1.000)	130	442817	400.000		70.00- 130.00	100.00
7.921	7.921 (1.000)	128	353580			47.60- 107.60	79.85
7.921	7.921 (1.000)	49	550145			90.73- 150.73	124.24
* 92 1,4-Difluorobenzene						CAS #: 540-36-3	
9.773	9.773 (1.000)	114	1985961	400.000		70.00- 130.00	100.00
9.773	9.773 (1.000)	88	349605			0.00- 46.82	17.60
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.861	14.861 (1.000)	117	1623751	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	988589			0.00- 30.00	60.88
95 Dibromomethane						CAS #: 74-95-3	
10.934	10.934 (1.119)	174	219754	100.000	104.57	0.00- 30.00	100.00
10.934	10.934 (1.119)	93	229003			0.00- 30.00	104.21
10.934	10.934 (1.119)	95	190181			0.00- 30.00	86.54

Report Date: 25-Apr-2008 15:16

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041529.d
Lab Smp Id: 1576-319
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv->100ppbv

Calibration Date: 16-APR-2008
Calibration Time: 12:15
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	445129	267077	623181	442817	-0.52
92 1,4-Difluorobenze	1996358	1197815	2794901	1985961	-0.52
125 Chlorobenzene-d5	1195769	717461	1674077	1623751	35.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdc.i/24Apr2008.b/c041529.d

Date : 16-APR-2008 13:48

Client ID:

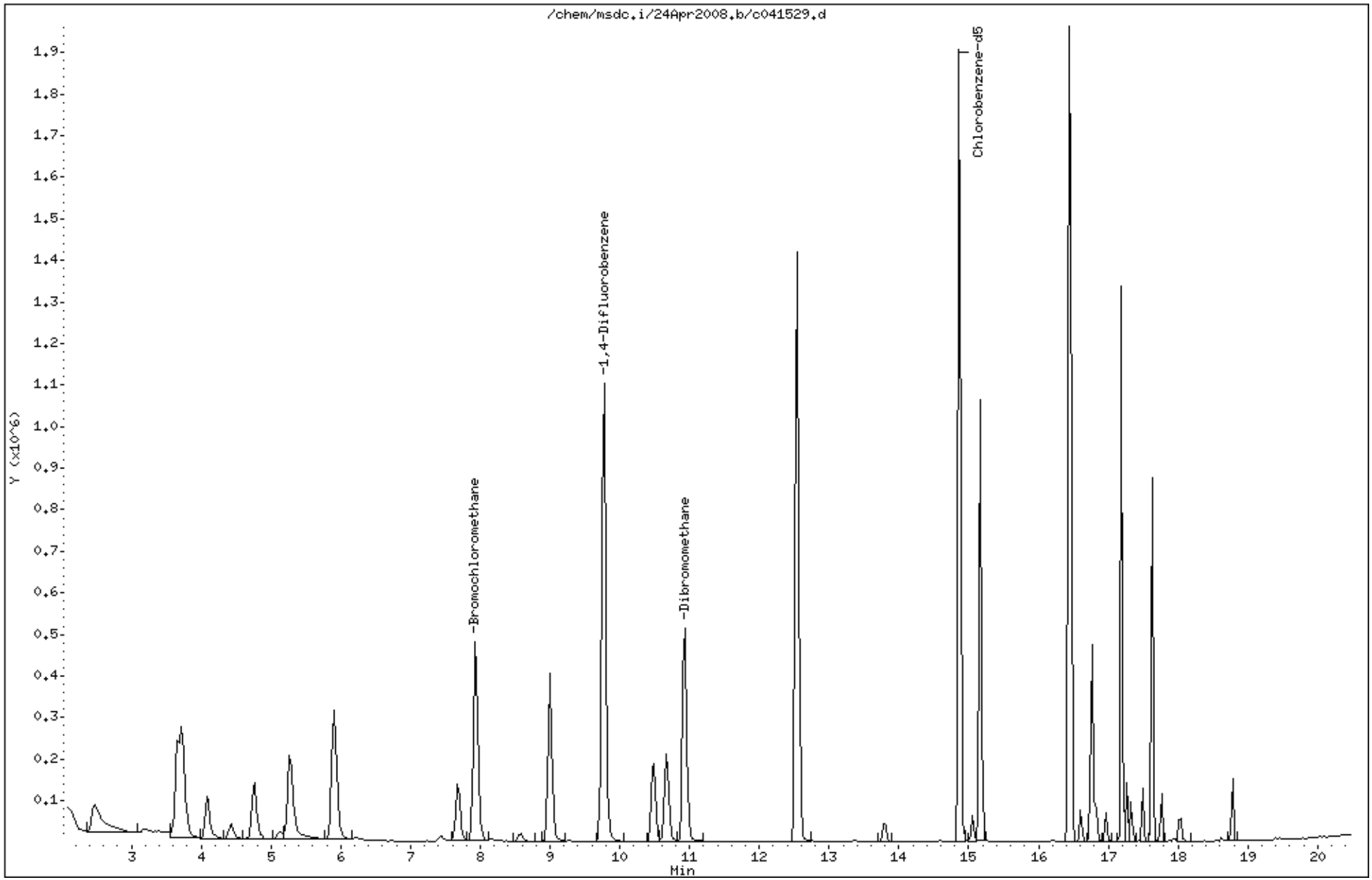
Sample Info: 25ml,33376

Column phase: RTx-624

Instrument: msdc.i

Operator: ac

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041525.d
Lab Smp Id: 1541-119
Inj Date : 16-APR-2008 11:41
Operator : ly Inst ID: msdc.i
Smp Info : 25ml,34399
Misc Info : 200ppbv > 100ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:15 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 11:41 Cal File: c041525.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Spbt2nosurr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	437331	400.000		0.00- 30.00	100.00
7.921	7.921 (1.000)	128	349624			0.00- 30.00	79.94
7.921	7.921 (1.000)	49	541832			0.00- 30.00	123.90
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.773	9.773 (1.000)	114	2001663	400.000		0.00- 30.00	100.00
9.773	9.773 (1.000)	88	338664			0.00- 30.00	16.92
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1641645	400.000		0.00- 30.00	100.00
14.861	14.861 (1.000)	82	985606			0.00- 30.00	60.04
59 1,3-Dichloropropane					CAS #: 142-28-9		
3.746	3.746 (0.383)	76	37522	100.000	77.658	0.00- 30.00	100.00
3.746	3.746 (0.383)	41	75936			0.00- 30.00	202.38
3.746	3.746 (0.383)	78	11534			0.00- 30.00	30.74
192 Cyclopentene					CAS #: 142-29-0		
5.128	5.128 (0.647)	67	486977	100.000	110.06	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
192 Cyclopentene (continued)							
5.128	5.128 (0.647)	68	183495			0.00- 30.00	37.68
5.128	5.128 (0.647)	53	88605			0.00- 30.00	18.19
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.423	7.423 (0.937)	77	282954	100.000	136.63	0.00- 30.00	100.00
7.423	7.423 (0.937)	79	92109			0.00- 30.00	32.55
7.423	7.423 (0.937)	97	55778			0.00- 30.00	19.71
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.557	8.557 (1.080)	110	109959	100.000	106.66	0.00- 30.00	100.00
8.557	8.557 (1.080)	75	318291			0.00- 30.00	289.46
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.054	15.054 (1.013)	131	301380	100.000	106.50	0.00- 30.00	100.00
15.054	15.054 (1.013)	117	181861			0.00- 30.00	60.34
15.054	15.054 (1.013)	95	117156			0.00- 30.00	38.87
137 Bromobenzene					CAS #: 108-86-1		
16.603	16.603 (1.117)	156	332953	100.000	111.03	0.00- 30.00	100.00
16.603	16.603 (1.117)	77	599345			0.00- 30.00	180.01
16.603	16.603 (1.117)	158	325835			0.00- 30.00	97.86
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.741	16.741 (1.127)	110	178772	100.000	110.42	0.00- 30.00	100.00
16.741	16.741 (1.127)	61	108868			0.00- 30.00	60.90
16.741	16.741 (1.127)	112	109294			0.00- 30.00	61.14
140 2-Chlorotoluene					CAS #: 95-49-8		
16.824	16.824 (1.132)	126	258658	100.000	110.42	0.00- 30.00	100.00
16.824	16.824 (1.132)	91	846973			0.00- 30.00	327.45
16.824	16.824 (1.132)	65	77237			0.00- 30.00	29.86
143 4-Chlorotoluene					CAS #: 106-43-4		
16.962	16.962 (1.141)	126	260502	100.000	111.43	0.00- 30.00	100.00
16.962	16.962 (1.141)	91	881979			0.00- 30.00	338.57
16.962	16.962 (1.141)	63	104971			0.00- 30.00	40.30
149 tert-Butylbenzene					CAS #: 98-06-6		
17.266	17.266 (1.162)	119	992241	100.000	110.84	0.00- 30.00	100.00
17.266	17.266 (1.162)	134	231493			0.00- 30.00	23.33
17.266	17.266 (1.162)	91	683658			0.00- 30.00	68.90
150 Pentachloroethane					CAS #: 76-01-7		
17.321	17.321 (1.166)	167	242557	100.000	114.93	0.00- 30.00	100.00
17.321	17.321 (1.166)	117	251715			0.00- 30.00	103.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
151 sec-Butylbenzene					CAS #: 135-98-8		
17.487	17.487 (1.177)	105	1423999	100.000	111.88	0.00- 30.00	100.00
17.487	17.487 (1.177)	134	262866			0.00- 30.00	18.46
17.487	17.487 (1.177)	91	246802			0.00- 30.00	17.33
153 p-Cymene					CAS #: 99-87-6		
17.653	17.653 (1.188)	134	274853	100.000	115.72	0.00- 30.00	100.00
17.653	17.653 (1.188)	119	1072888			0.00- 30.00	390.35
17.626	17.626 (1.186)	91	263206			0.00- 30.00	95.76
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.764	17.764 (1.195)	120	382421	100.000	115.74	0.00- 30.00	100.00
17.764	17.764 (1.195)	105	928259			0.00- 30.00	242.73
17.764	17.764 (1.195)	77	106609			0.00- 30.00	27.88
158 Butylbenzene					CAS #: 104-51-8		
18.040	18.040 (1.214)	134	236891	100.000	115.92	0.00- 30.00	100.00
18.013	18.013 (1.212)	91	896908			0.00- 30.00	378.62
18.013	18.013 (1.212)	92	483356			0.00- 30.00	204.04
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.787	18.787 (1.264)	157	329711	100.000	123.09	0.00- 30.00	100.00
18.787	18.787 (1.264)	75	259190			0.00- 30.00	78.61
18.787	18.787 (1.264)	155	256755			0.00- 30.00	77.87

Report Date: 25-Apr-2008 15:15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041525.d
Lab Smp Id: 1541-119
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv > 100ppbv

Calibration Date: 16-APR-2008
Calibration Time: 11:41
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	437331	262399	612263	437331	0.00
92 1,4-Difluorobenze	2001663	1200998	2802328	2001663	0.00
125 Chlorobenzene-d5	1641645	984987	2298303	1641645	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

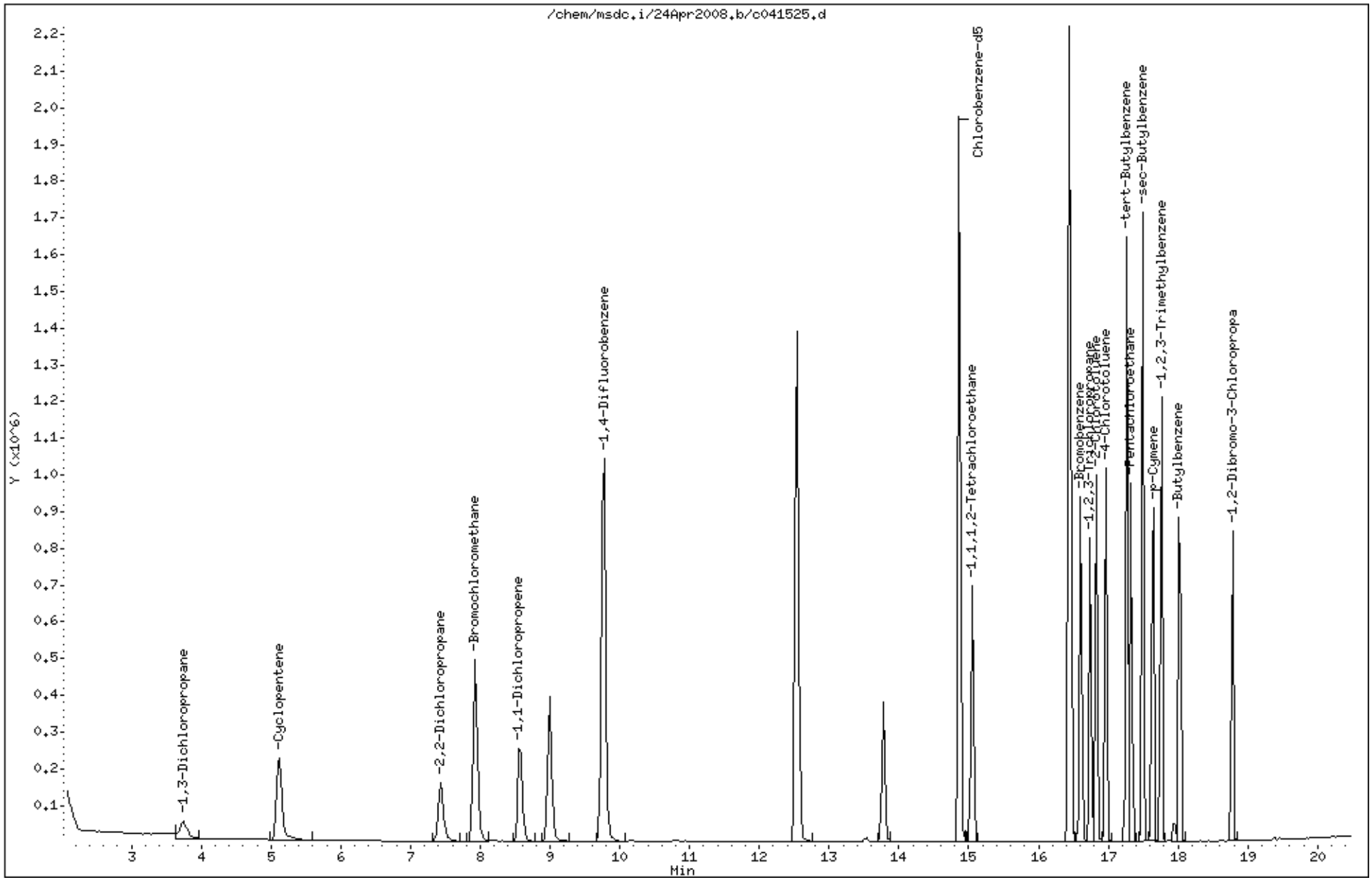
0297

Data File: /chem/msdc.i/24Apr2008.b/c041525.d
Date : 16-APR-2008 11:41
Client ID:
Sample Info: 25ml,34399

Column phase: RTx-624

Instrument: msdc.i

Operator: ly
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042417.d
Lab Smp Id: 1544-81C Client Smp ID: Level6
Inj Date : 24-APR-2008 16:55
Operator : ly Inst ID: msdc.i
Smp Info : 50mL,31443
Misc Info : 200ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:51 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 16:55 Cal File: c042417.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane						CAS #: 74-97-5	
7.921	7.921 (1.000)	130	414647	400.000		80.00- 120.00	100.00
7.921	7.921 (1.000)	128	326501			48.74- 108.74	78.74
7.921	7.921 (1.000)	49	493653			89.05- 149.05	119.05
* 92 1,4-Difluorobenzene						CAS #: 540-36-3	
9.745	9.745 (1.000)	114	1880051	400.000		80.00- 120.00	100.00
9.745	9.745 (1.000)	88	333741			0.00- 47.75	17.75
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.861	14.861 (1.000)	117	1629476	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	1040292			33.84- 93.84	63.84
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
8.971	8.971 (1.133)	65	801766	400.000	394.87	80.00- 120.00	100.00
8.971	8.971 (1.133)	67	382260			17.68- 77.68	47.68
$ 107 Toluene-d8						CAS #: 2037-26-5	
12.510	12.510 (1.284)	98	1857322	400.000	394.53	80.00- 120.00	100.00
12.510	12.510 (1.284)	70	222355			0.00- 41.97	11.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.510	12.510 (1.284)	100	1292094			39.57- 99.57	69.57
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1116646	400.000	428.48	80.00- 120.00	100.00
16.437	16.437 (1.106)	95	1662860			118.92- 178.92	148.92
16.437	16.437 (1.106)	176	1078029			66.54- 126.54	96.54
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	229784	200.000	203.45	80.00- 120.00	100.00
2.225	2.225 (0.281)	42	143430			32.42- 92.42	62.42
2.225	2.225 (0.281)	39	187350			51.53- 111.53	81.53
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	1052051	200.000	209.38	80.00- 120.00	100.00
2.280	2.280 (0.288)	87	307459			0.00- 59.22	29.22
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	722254	200.000	193.22	80.00- 120.00	100.00
2.446	2.446 (0.309)	137	230921			1.97- 61.97	31.97
10 Chloromethane					CAS #: 74-87-3		
2.529	2.529 (0.319)	50	383200	200.000	204.33	80.00- 120.00	100.00
2.529	2.529 (0.319)	52	99027			0.00- 55.84	25.84
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	370928	200.000	203.40	80.00- 120.00	100.00
2.695	2.695 (0.340)	64	118343			1.90- 61.90	31.90
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.347)	54	233087	200.000	228.31	80.00- 120.00	100.00(M)
2.280	2.280 (0.288)	39	0			0.00- 30.00	0.00
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	253480	200.000	213.17	80.00- 120.00	100.00
3.193	3.193 (0.403)	96	231214			61.22- 121.22	91.22
19 Chloroethane					CAS #: 75-00-3		
3.358	3.358 (0.424)	64	175356	200.000	218.43	80.00- 120.00	100.00
3.358	3.358 (0.424)	49	41063			0.00- 53.42	23.42
3.358	3.358 (0.424)	66	52015			0.00- 59.66	29.66
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.635	3.635 (0.459)	101	1216826	200.000	198.27	80.00- 120.00	100.00
3.635	3.635 (0.459)	103	777110			33.86- 93.86	63.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.022	4.022 (0.508)	45	119967	200.000	191.94	80.00- 120.00	100.00
4.022	4.022 (0.508)	43	51841			13.21- 73.21	43.21
4.022	4.022 (0.508)	46	47837			9.88- 69.88	39.88
30 Freon 113					CAS #: 76-13-1		
4.464	4.464 (0.564)	151	543363	200.000	198.79	80.00- 120.00	100.00
4.464	4.464 (0.564)	153	342117			32.96- 92.96	62.96
4.437	4.437 (0.560)	101	573224			75.50- 135.50	105.50
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.464	4.464 (0.564)	61	760697	200.000	197.69	80.00- 120.00	100.00
4.464	4.464 (0.564)	96	425601			25.95- 85.95	55.95
4.464	4.464 (0.564)	98	271274			5.66- 65.66	35.66
32 Acetone					CAS #: 67-64-1		
4.658	4.658 (0.588)	58	177391	200.000	195.70	80.00- 120.00	100.00
4.658	4.658 (0.588)	43	580588			297.29- 357.29	327.29
36 2-Propanol					CAS #: 67-63-0		
4.852	4.852 (0.613)	45	583161	200.000	194.44	80.00- 120.00	100.00
4.852	4.852 (0.613)	43	158870			0.00- 57.24	27.24
4.852	4.852 (0.613)	59	27789			0.00- 34.77	4.77
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	987239	200.000	194.25	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	223229	200.000	194.41	80.00- 120.00	100.00
5.073	5.073 (0.640)	41	417794			157.16- 217.16	187.16
43 Methylene Chloride					CAS #: 75-09-2		
5.349	5.349 (0.675)	49	387617	200.000	180.98	80.00- 120.00	100.00
5.349	5.349 (0.675)	84	332398			55.75- 115.75	85.75
5.349	5.349 (0.675)	51	121236			1.28- 61.28	31.28
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.487	5.487 (0.693)	59	420427	200.000	170.29	80.00- 120.00	100.00
5.487	5.487 (0.693)	41	93872			0.00- 52.33	22.33
5.487	5.487 (0.693)	57	47460			0.00- 41.29	11.29
46 MTBE					CAS #: 1634-04-4		
5.653	5.653 (0.714)	73	495213	200.000	201.95	80.00- 120.00	100.00
5.653	5.653 (0.714)	57	93033			0.00- 48.79	18.79
5.653	5.653 (0.714)	41	100055			0.00- 50.20	20.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.709	5.709 (0.721)	96	408651	200.000	192.47	80.00- 120.00	100.00
5.681	5.681 (0.717)	61	611667			119.68- 179.68	149.68
5.709	5.709 (0.721)	98	258642			33.29- 93.29	63.29
51 Hexane					CAS #: 110-54-3		
6.013	6.013 (0.759)	57	628791	200.000	195.36	80.00- 120.00	100.00
6.013	6.013 (0.759)	43	375091			29.65- 89.65	59.65
6.013	6.013 (0.759)	86	125121			0.00- 49.90	19.90
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.483	6.483 (0.818)	63	740509	200.000	198.62	80.00- 120.00	100.00
6.483	6.483 (0.818)	65	233008			1.47- 61.47	31.47
67 2-Butanone					CAS #: 78-93-3		
7.534	7.534 (0.951)	72	190364	200.000	189.04	80.00- 120.00	100.00
7.534	7.534 (0.951)	43	691994			333.51- 393.51	363.51
7.534	7.534 (0.951)	57	60972			2.03- 62.03	32.03
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.478	7.478 (0.944)	61	552541	200.000	190.55	80.00- 120.00	100.00
7.478	7.478 (0.944)	96	398700			42.16- 102.16	72.16
7.478	7.478 (0.944)	98	253371			15.86- 75.86	45.86
70 Tetrahydrofuran					CAS #: 109-99-9		
7.893	7.893 (0.996)	42	376305	200.000	194.64	80.00- 120.00	100.00
7.893	7.893 (0.996)	71	177529			17.18- 77.18	47.18
7.893	7.893 (0.996)	72	188850			20.19- 80.19	50.19
72 Chloroform					CAS #: 67-66-3		
8.031	8.031 (1.014)	83	927075	200.000	192.50	80.00- 120.00	100.00
8.031	8.031 (1.014)	85	589643			33.60- 93.60	63.60
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.280	8.280 (1.045)	97	960840	200.000	199.54	80.00- 120.00	100.00
8.280	8.280 (1.045)	99	603119			32.77- 92.77	62.77
74 Cyclohexane					CAS #: 110-82-7		
8.225	8.225 (1.038)	84	546746	200.000	200.96	80.00- 120.00	100.00
8.225	8.225 (1.038)	56	570538			74.35- 134.35	104.35
8.225	8.225 (1.038)	41	326005			29.63- 89.63	59.63
56 Vinyl Acetate					CAS #: 108-05-4		
6.538	6.538 (0.825)	86	107111	200.000	188.42	80.00- 120.00	100.00
6.538	6.538 (0.825)	43	927988			836.38- 896.38	866.38
6.538	6.538 (0.825)	42	94098			57.85- 117.85	87.85

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.501	8.501 (1.073)	119	1069484	200.000	199.02	80.00- 120.00	100.00
8.501	8.501 (1.073)	117	1115489			74.30- 134.30	104.30
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.888	8.888 (1.122)	57	1769066	200.000	194.59	80.00- 120.00	100.00
8.888	8.888 (1.122)	56	526138			0.00- 59.74	29.74
8.888	8.888 (1.122)	41	520930			0.00- 59.45	29.45
81 Benzene					CAS #: 71-43-2		
8.916	8.916 (0.915)	78	1160645	200.000	187.94	80.00- 120.00	100.00
8.916	8.916 (0.915)	77	274528			0.00- 53.65	23.65
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.110	9.110 (0.935)	62	700695	200.000	191.00	80.00- 120.00	100.00
9.110	9.110 (0.935)	64	228740			2.64- 62.64	32.64
90 Heptane					CAS #: 142-82-5		
9.275	9.275 (0.952)	100	149811	200.000	179.45	80.00- 120.00	100.00
9.275	9.275 (0.952)	43	620024			383.87- 443.87	413.87
9.275	9.275 (0.952)	71	432270			258.54- 318.54	288.54
93 Trichloroethene					CAS #: 79-01-6		
10.133	10.133 (1.040)	95	551552	200.000	184.26	80.00- 120.00	100.00
10.160	10.160 (1.043)	130	526113			65.39- 125.39	95.39
10.133	10.133 (1.040)	97	353474			34.09- 94.09	64.09
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.686	10.686 (1.096)	63	369089	200.000	186.38	80.00- 120.00	100.00
10.686	10.686 (1.096)	62	259880			40.41- 100.41	70.41
10.686	10.686 (1.096)	41	268648			42.79- 102.79	72.79
99 1,4-Dioxane					CAS #: 123-91-1		
10.907	10.907 (1.119)	88	266611	200.000	190.14	80.00- 120.00	100.00
10.907	10.907 (1.119)	58	173394			35.04- 95.04	65.04
10.907	10.907 (1.119)	57	58264			0.00- 51.85	21.85
100 Bromodichloromethane					CAS #: 75-27-4		
11.239	11.239 (1.153)	83	981653	200.000	191.05	80.00- 120.00	100.00
11.239	11.239 (1.153)	85	629061			34.08- 94.08	64.08
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.151	12.151 (1.247)	75	664101	200.000	190.02	80.00- 120.00	100.00
12.151	12.151 (1.247)	77	204954			0.86- 60.86	30.86
12.151	12.151 (1.247)	39	360937			24.35- 84.35	54.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	172745	200.000	188.30	80.00- 120.00	100.00
12.455	12.455 (1.278)	43	791384			428.12- 488.12	458.12
12.455	12.455 (1.278)	58	320263			155.40- 215.40	185.40
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	1429646	200.000	188.00	80.00- 120.00	100.00
12.649	12.649 (1.298)	92	830258			28.07- 88.07	58.07
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.229	13.229 (0.890)	75	766965	200.000	190.31	80.00- 120.00	100.00
13.229	13.229 (0.890)	77	230058			0.00- 60.00	30.00
13.229	13.229 (0.890)	39	354159			16.18- 76.18	46.18
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	470285	200.000	183.39	80.00- 120.00	100.00
13.506	13.506 (0.909)	99	287605			31.16- 91.16	61.16
13.506	13.506 (0.909)	83	376387			50.03- 110.03	80.03
116 Tetrachloroethene					CAS #: 127-18-4		
13.506	13.506 (0.909)	166	658775	200.000	181.20	80.00- 120.00	100.00
13.506	13.506 (0.909)	129	544978			52.73- 112.73	82.73
13.506	13.506 (0.909)	131	516378			48.38- 108.38	78.38
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	407699	200.000	181.48	80.00- 120.00	100.00
13.893	13.893 (0.935)	43	761626			156.81- 216.81	186.81
13.893	13.893 (0.935)	100	103271			0.00- 55.33	25.33
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	920816	200.000	190.24	80.00- 120.00	100.00
14.059	14.059 (0.946)	127	714816			47.63- 107.63	77.63
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	731434	200.000	181.32	80.00- 120.00	100.00
14.225	14.225 (0.957)	109	679896			62.95- 122.95	92.95
126 Chlorobenzene					CAS #: 108-90-7		
14.888	14.888 (1.002)	112	1127974	200.000	182.18	80.00- 120.00	100.00
14.888	14.888 (1.002)	114	364224			2.29- 62.29	32.29
14.888	14.888 (1.002)	77	742306			35.81- 95.81	65.81
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	580389	200.000	180.66	80.00- 120.00	100.00
15.027	15.027 (1.011)	91	2058379			324.66- 384.66	354.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene					CAS #: 108-38-3		
15.192	15.192 (1.022)	106	753609	200.000	186.02	80.00- 120.00	100.00
15.192	15.192 (1.022)	91	1722362			198.55- 258.55	228.55
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	688415	200.000	181.52	80.00- 120.00	100.00
15.718	15.718 (1.058)	91	1726686			220.82- 280.82	250.82
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	1139507	200.000	196.60	80.00- 120.00	100.00
15.773	15.773 (1.061)	78	703567			31.74- 91.74	61.74
134 Bromoform					CAS #: 75-25-2		
16.050	16.050 (1.080)	173	823044	200.000	187.31	80.00- 120.00	100.00
16.050	16.050 (1.080)	171	420329			21.07- 81.07	51.07
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	967472	200.000	190.46	80.00- 120.00	100.00
16.686	16.686 (1.123)	85	615601			33.63- 93.63	63.63
144 4-Ethyltoluene					CAS #: 622-96-8		
16.851	16.851 (1.134)	105	2366682	200.000	212.15	80.00- 120.00	100.00
16.851	16.851 (1.134)	120	660718			0.00- 57.92	27.92
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.934	16.934 (1.140)	105	2036492	200.000	203.37	80.00- 120.00	100.00
16.934	16.934 (1.140)	120	899397			14.16- 74.16	44.16
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.321	17.321 (1.166)	105	2063839	200.000	202.07	80.00- 120.00	100.00
17.321	17.321 (1.166)	120	821714			9.81- 69.81	39.81
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	1121950	200.000	182.59	80.00- 120.00	100.00
17.626	17.626 (1.186)	148	706576			32.98- 92.98	62.98
17.626	17.626 (1.186)	111	544855			18.56- 78.56	48.56
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	1360107	200.000	203.00	80.00- 120.00	100.00
17.736	17.736 (1.193)	148	872817			34.17- 94.17	64.17
17.736	17.736 (1.193)	111	573928			12.20- 72.20	42.20
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.874	17.874 (1.203)	91	1994522	200.000	211.20	80.00- 120.00	100.00
17.874	17.874 (1.203)	126	338233			0.00- 46.96	16.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	1057881	200.000	191.97	80.00- 120.00	100.00
18.096	18.096 (1.218)	148	678569			34.14- 94.14	64.14
18.096	18.096 (1.218)	111	475953			14.99- 74.99	44.99
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.395	19.395 (1.305)	180	642213	200.000	186.34	80.00- 120.00	100.00
19.395	19.395 (1.305)	182	609065			64.84- 124.84	94.84
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.450	19.450 (1.309)	225	664041	200.000	184.26	80.00- 120.00	100.00
19.450	19.450 (1.309)	223	419939			33.24- 93.24	63.24
142 Propylbenzene					CAS #: 103-65-1		
16.713	16.713 (1.125)	91	2670022	200.000	204.84	80.00- 120.00	100.00
16.713	16.713 (1.125)	120	587879			0.00- 52.02	22.02
16.713	16.713 (1.125)	105	100863			0.00- 33.78	3.78
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	2337741	200.000	208.04	80.00- 120.00	100.00
16.188	16.188 (1.089)	120	565244			0.00- 54.18	24.18
16.188	16.188 (1.089)	51	211024			0.00- 39.03	9.03
165 Naphthalene					CAS #: 91-20-3		
19.561	19.561 (1.316)	128	1529898	200.000	194.25	80.00- 120.00	100.00
19.561	19.561 (1.316)	127	204435			0.00- 43.36	13.36
17 Isopentane					CAS #: 78-78-4		
3.331	3.331 (0.421)	43	282579	200.000	175.72	80.00- 120.00	100.00
3.331	3.331 (0.421)	57	225668			49.86- 109.86	79.86
3.331	3.331 (0.421)	72	31939			0.00- 41.30	11.30
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.337)	58	83137	200.000	215.95	80.00- 120.00	100.00(M)
2.474	2.474 (0.312)	43	11247			0.00- 43.53	13.53
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.354	10.354 (1.062)	83	739914	200.000	188.84	80.00- 120.00	100.00
10.354	10.354 (1.062)	98	363936			19.19- 79.19	49.19
10.354	10.354 (1.062)	55	555628			45.09- 105.09	75.09

QC Flag Legend

M - Compound response manually integrated.

Report Date: 25-Apr-2008 15:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042417.d
Lab Smp Id: 1544-81C
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: Level6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	414647	0.00
92 1,4-Difluorobenze	1880051	1128031	2632071	1880051	0.00
125 Chlorobenzene-d5	1629476	977686	2281266	1629476	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

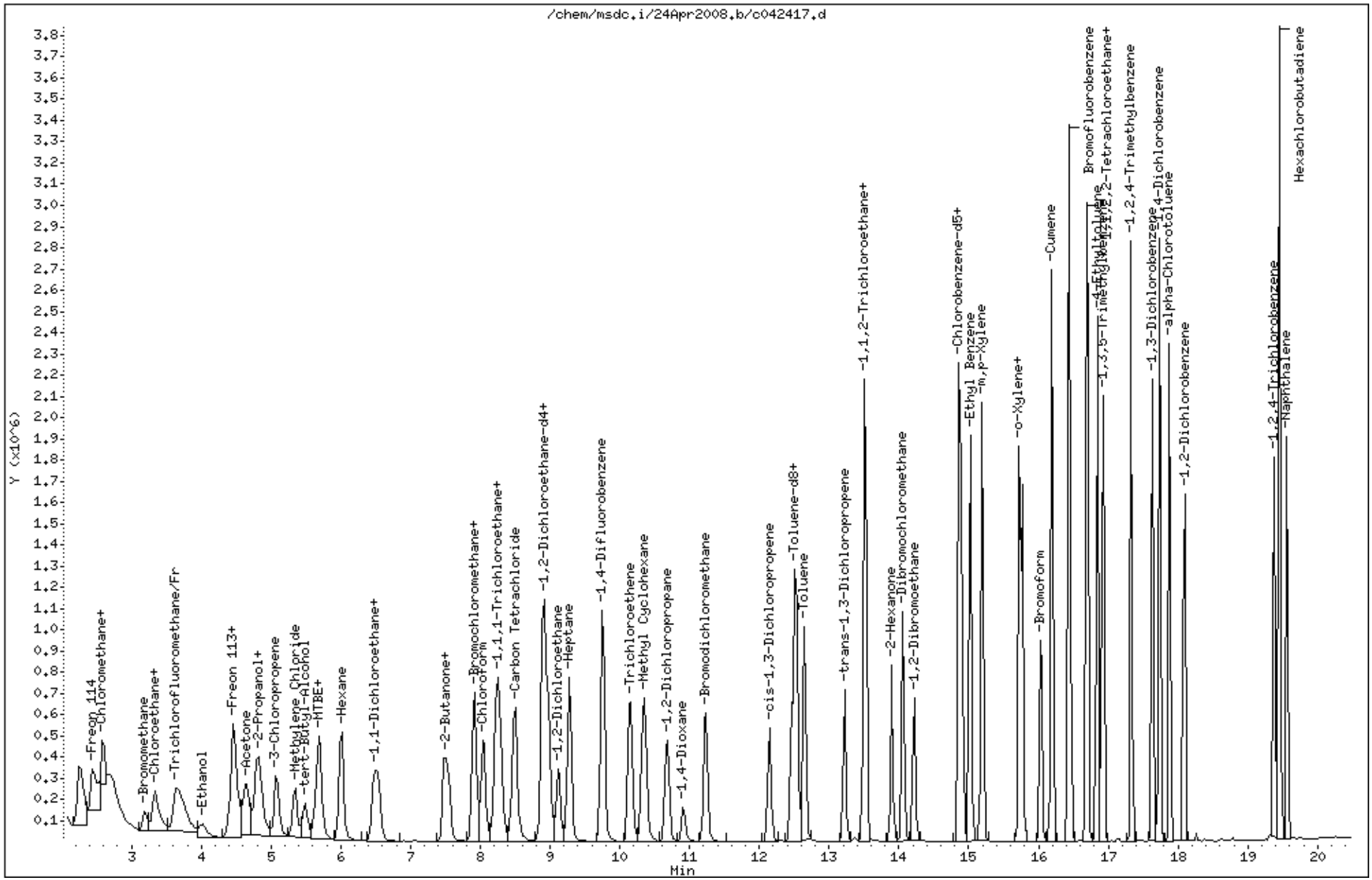
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdc.i/24Apr2008.b/c042417.d
Date : 24-APR-2008 16:55
Client ID: Level6
Sample Info: 50mL,31443

Instrument: msdc.i

Operator: ly

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041609.d
Lab Smp Id: 1576-342, Sp1 Client Smp ID: Sp1
Inj Date : 16-APR-2008 19:29
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,3761
Misc Info : 200ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 28-Apr-2008 07:27 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 16:55 Cal File: c042417.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Spfrnosur-134a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane						CAS #: 74-97-5	
7.948	7.948 (1.000)	130	429642	400.000		80.00- 120.00	100.00
7.948	7.948 (1.000)	128	335763			48.15- 108.15	78.15
7.948	7.948 (1.000)	49	523552			91.86- 151.86	121.86
* 92 1,4-Difluorobenzene						CAS #: 540-36-3	
9.773	9.773 (1.000)	114	1935142	400.000		80.00- 120.00	100.00
9.773	9.773 (1.000)	88	330816			0.00- 47.10	17.10
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.861	14.861 (1.000)	117	1553072	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	935810			30.26- 90.26	60.26
3 Freon 152a						CAS #: 75-37-6	
2.253	2.253 (0.283)	65	197845	200.000	167.85	80.00- 120.00	100.00
2.308	2.308 (0.290)	51	885025			417.33- 477.33	447.33
4 Freon 22						CAS #: 75-45-6	
2.308	2.308 (0.290)	67	91832	200.000	187.42	80.00- 120.00	100.00
2.308	2.308 (0.290)	51	885025			933.74- 993.74	963.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.690	3.690 (0.464)	67	613026	200.000	201.62	80.00- 120.00	100.00
3.690	3.690 (0.464)	69	199367			2.52- 62.52	32.52
3.690	3.690 (0.464)	35	12120			0.00- 31.98	1.98
49 Isopropyl ether					CAS #: 108-20-3		
6.455	6.455 (0.812)	45	1164290	200.000	206.40	80.00- 120.00	100.00
6.455	6.455 (0.812)	87	359828			0.91- 60.91	30.91
6.455	6.455 (0.812)	59	133994			0.00- 41.51	11.51
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.091	7.091 (0.892)	59	994975	200.000	209.07	80.00- 120.00	100.00
7.091	7.091 (0.892)	87	428638			13.08- 73.08	43.08
7.091	7.091 (0.892)	41	170996			0.00- 47.19	17.19
61 Ethyl Acetate					CAS #: 141-78-6		
7.589	7.589 (0.955)	70	101155	200.000	216.33	80.00- 120.00	100.00
7.589	7.589 (0.955)	43	801533			762.38- 822.38	792.38
7.589	7.589 (0.955)	61	114007			82.71- 142.71	112.71
64 1-Propanol					CAS #: 71-23-8		
6.704	6.704 (0.843)	42	57538	200.000	211.54	80.00- 120.00	100.00
6.704	6.704 (0.843)	59	68472			89.00- 149.00	119.00
6.704	6.704 (0.843)	41	40879			41.05- 101.05	71.05
76 Isobutanol					CAS #: 78-83-1		
8.971	8.971 (0.918)	43	278648	200.000	202.77	80.00- 120.00	100.00
8.971	8.971 (0.918)	41	204687			43.46- 103.46	73.46
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.110	9.110 (1.146)	73	1095070	200.000	206.86	80.00- 120.00	100.00
9.110	9.110 (1.146)	87	286542			0.00- 56.17	26.17
9.110	9.110 (1.146)	55	279940			0.00- 55.56	25.56
91 1-Butanol					CAS #: 71-36-3		
10.243	10.243 (1.048)	56	257519	200.000	228.62	80.00- 120.00	100.00
10.216	10.216 (1.045)	41	172476			36.98- 96.98	66.98
10.216	10.216 (1.045)	43	135132			22.47- 82.47	52.47
118 Butyl Acetate					CAS #: 123-86-4		
14.059	14.059 (1.438)	56	396673	200.000	196.50	80.00- 120.00	100.00
14.087	14.087 (1.441)	73	182035			15.89- 75.89	45.89
14.059	14.059 (1.438)	43	894867			195.59- 255.59	225.59
131 2-Heptanone					CAS #: 110-43-0		
15.994	15.994 (1.076)	58	598653	200.000	227.23	80.00- 120.00	100.00

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
131 2-Heptanone (continued)							
15.967	15.967 (1.074)	43	916391			123.08- 183.08	153.08
135 Cyclohexanone					CAS #: 108-94-1		
16.409	16.409 (1.104)	55	503609	200.000	222.28	80.00- 120.00	100.00
16.409	16.409 (1.104)	98	255258			20.69- 80.69	50.69
16.409	16.409 (1.104)	42	342523			38.01- 98.01	68.01
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.100	17.100 (1.151)	57	1365816	200.000	233.17	80.00- 120.00	100.00
17.100	17.100 (1.151)	85	1153718			54.47- 114.47	84.47

Report Date: 28-Apr-2008 07:27

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041609.d
Lab Smp Id: 1576-342, Sp1
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv

Calibration Date: 16-APR-2008
Calibration Time: 19:29
Client Smp ID: Sp1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	429642	257785	601499	429642	0.00
92 1,4-Difluorobenze	1935142	1161085	2709199	1935142	0.00
125 Chlorobenzene-d5	1553072	931843	2174301	1553072	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.95	7.62	8.28	7.95	0.00
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

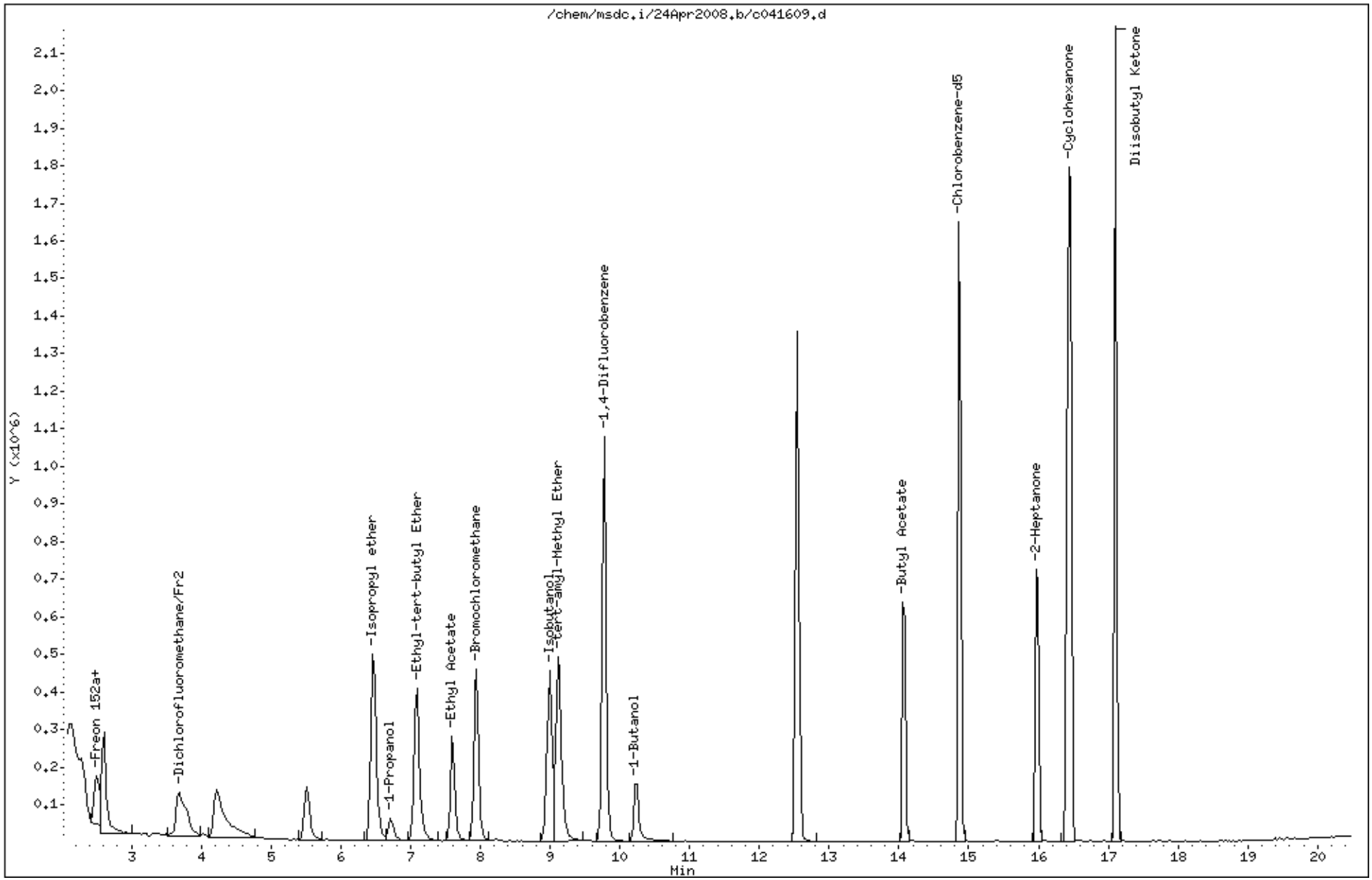
0312

Data File: /chem/msdc.i/24Apr2008.b/c041609.d
Date : 16-APR-2008 19:29
Client ID: Sp1
Sample Info: 50mL,3761

Instrument: msdc.i

Operator: ac
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041530.d
Lab Smp Id: 1576-319
Inj Date : 16-APR-2008 14:15
Operator : ac Inst ID: msdc.i
Smp Info : 50ml,33376
Misc Info : 200ppbv->200ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:16 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 14:15 Cal File: c041530.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Dibromnosurr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.949	7.949 (1.000)	130	438847	400.000		80.00- 120.00	100.00
7.949	7.949 (1.000)	128	328039			44.75- 104.75	74.75
7.921	7.921 (1.000)	49	543157			93.77- 153.77	123.77
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.773	9.773 (1.000)	114	2002397	400.000		80.00- 120.00	100.00
9.773	9.773 (1.000)	88	340206			0.00- 46.99	16.99
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1615958	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	976850			30.45- 90.45	60.45
95 Dibromomethane					CAS #: 74-95-3		
10.935	10.935 (1.119)	174	430802	200.000	202.19	80.00- 120.00	100.00
10.935	10.935 (1.119)	93	447380			73.85- 133.85	103.85
10.935	10.935 (1.119)	95	367028			55.20- 115.20	85.20

Report Date: 25-Apr-2008 15:16

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041530.d
Lab Smp Id: 1576-319
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv->200ppbv

Calibration Date: 16-APR-2008
Calibration Time: 14:15
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	438847	263308	614386	438847	0.00
92 1,4-Difluorobenze	2002397	1201438	2803356	2002397	0.00
125 Chlorobenzene-d5	1615958	969575	2262341	1615958	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.95	7.62	8.28	7.95	0.00
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

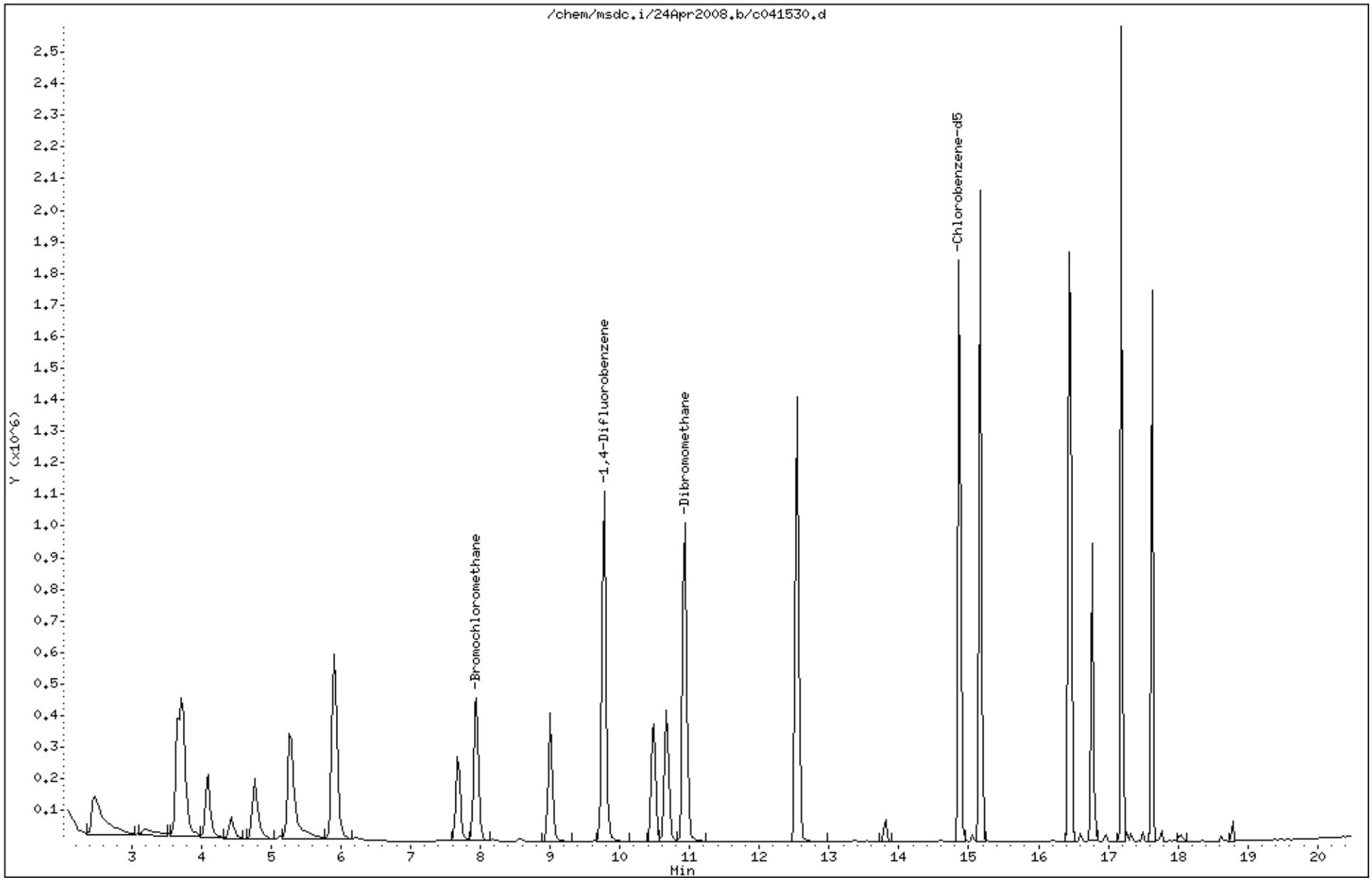
0315

Data File: /chem/msdc.i/24Apr2008.b/c041530.d
Date : 16-APR-2008 14:15
Client ID:
Sample Info: 50ml,33376

Column phase: RTx-624

Instrument: msdc.i

Operator: ac
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041526.d
Lab Smp Id: 1541-119
Inj Date : 16-APR-2008 12:15
Operator : ly Inst ID: msdc.i
Smp Info : 25ml,34399
Misc Info : 200ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:15 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 12:15 Cal File: c041526.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Spbt2nosurr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	445129	400.000		80.00- 120.00	100.00
7.921	7.921 (1.000)	128	345415			47.60- 107.60	77.60
7.921	7.921 (1.000)	49	537393			90.73- 150.73	120.73
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.773	9.773 (1.000)	114	1996358	400.000		80.00- 120.00	100.00
9.773	9.773 (1.000)	88	335773			0.00- 46.82	16.82
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1195769	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	759100			33.48- 93.48	63.48
59 1,3-Dichloropropane					CAS #: 142-28-9		
3.746	3.746 (0.383)	76	77277	200.000	171.71	80.00- 120.00	100.00
3.746	3.746 (0.383)	41	159803			176.79- 236.79	206.79
3.746	3.746 (0.383)	78	26381			4.14- 64.14	34.14
192 Cyclopentene					CAS #: 142-29-0		
5.128	5.128 (0.647)	67	898944	200.000	199.74	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
192 Cyclopentene (continued)							
5.128	5.128 (0.647)	68	348640			8.78- 68.78	38.78
5.128	5.128 (0.647)	53	167810			0.00- 48.67	18.67
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.423	7.423 (0.937)	77	495538	200.000	222.10	80.00- 120.00	100.00
7.423	7.423 (0.937)	79	156672			1.62- 61.62	31.62
7.423	7.423 (0.937)	97	96839			0.00- 49.54	19.54
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.584	8.584 (1.084)	110	207673	200.000	198.60	80.00- 120.00	100.00
8.584	8.584 (1.084)	75	611832			264.61- 324.61	294.61
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.054	15.054 (1.013)	131	511366	200.000	229.67	80.00- 120.00	100.00
15.054	15.054 (1.013)	117	322976			33.16- 93.16	63.16
15.054	15.054 (1.013)	95	212348			11.53- 71.53	41.53
137 Bromobenzene					CAS #: 108-86-1		
16.603	16.603 (1.117)	156	483439	200.000	213.72	80.00- 120.00	100.00
16.603	16.603 (1.117)	77	878145			151.65- 211.65	181.65
16.603	16.603 (1.117)	158	506648			74.80- 134.80	104.80
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.741	16.741 (1.127)	110	277668	200.000	222.32	80.00- 120.00	100.00
16.741	16.741 (1.127)	61	170484			31.40- 91.40	61.40
16.741	16.741 (1.127)	112	173777			32.58- 92.58	62.58
140 2-Chlorotoluene					CAS #: 95-49-8		
16.824	16.824 (1.132)	126	379360	200.000	214.35	80.00- 120.00	100.00
16.824	16.824 (1.132)	91	1316970			317.16- 377.16	347.16
16.824	16.824 (1.132)	65	119900			1.61- 61.61	31.61
143 4-Chlorotoluene					CAS #: 106-43-4		
16.962	16.962 (1.141)	126	385030	200.000	216.68	80.00- 120.00	100.00
16.962	16.962 (1.141)	91	1321101			313.12- 373.12	343.12
16.962	16.962 (1.141)	63	166006			13.12- 73.12	43.12
149 tert-Butylbenzene					CAS #: 98-06-6		
17.266	17.266 (1.162)	119	1605248	200.000	228.59	80.00- 120.00	100.00
17.266	17.266 (1.162)	134	351621			0.00- 51.90	21.90
17.266	17.266 (1.162)	91	1224565			46.29- 106.29	76.29
150 Pentachloroethane					CAS #: 76-01-7		
17.322	17.322 (1.166)	167	389700	200.000	232.75	80.00- 120.00	100.00
17.322	17.322 (1.166)	117	388167			69.61- 129.61	99.61

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
151 sec-Butylbenzene					CAS #: 135-98-8		
17.488	17.488 (1.177)	105	2149698	200.000	220.18	80.00- 120.00	100.00
17.488	17.488 (1.177)	134	401421			0.00- 48.67	18.67
17.488	17.488 (1.177)	91	411400			0.00- 49.14	19.14
153 p-Cymene					CAS #: 99-87-6		
17.653	17.653 (1.188)	134	428954	200.000	229.59	80.00- 120.00	100.00
17.653	17.653 (1.188)	119	1739270			375.47- 435.47	405.47
17.626	17.626 (1.186)	91	488441			83.87- 143.87	113.87
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.764	17.764 (1.195)	120	692388	200.000	251.00	80.00- 120.00	100.00
17.764	17.764 (1.195)	105	1682335			212.98- 272.98	242.98
17.764	17.764 (1.195)	77	185330			0.00- 56.77	26.77
158 Butylbenzene					CAS #: 104-51-8		
18.041	18.041 (1.214)	134	442552	200.000	255.82	80.00- 120.00	100.00
18.013	18.013 (1.212)	91	1568584			324.44- 384.44	354.44
18.013	18.013 (1.212)	92	887233			170.48- 230.48	200.48
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.787	18.787 (1.264)	157	535951	200.000	244.28	80.00- 120.00	100.00
18.787	18.787 (1.264)	75	451939			54.32- 114.32	84.32
18.787	18.787 (1.264)	155	400709			44.77- 104.77	74.77

Report Date: 25-Apr-2008 15:15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041526.d
Lab Smp Id: 1541-119
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 200ppbv

Calibration Date: 16-APR-2008
Calibration Time: 12:15
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	445129	267077	623181	445129	0.00
92 1,4-Difluorobenze	1996358	1197815	2794901	1996358	0.00
125 Chlorobenzene-d5	1195769	717461	1674077	1195769	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

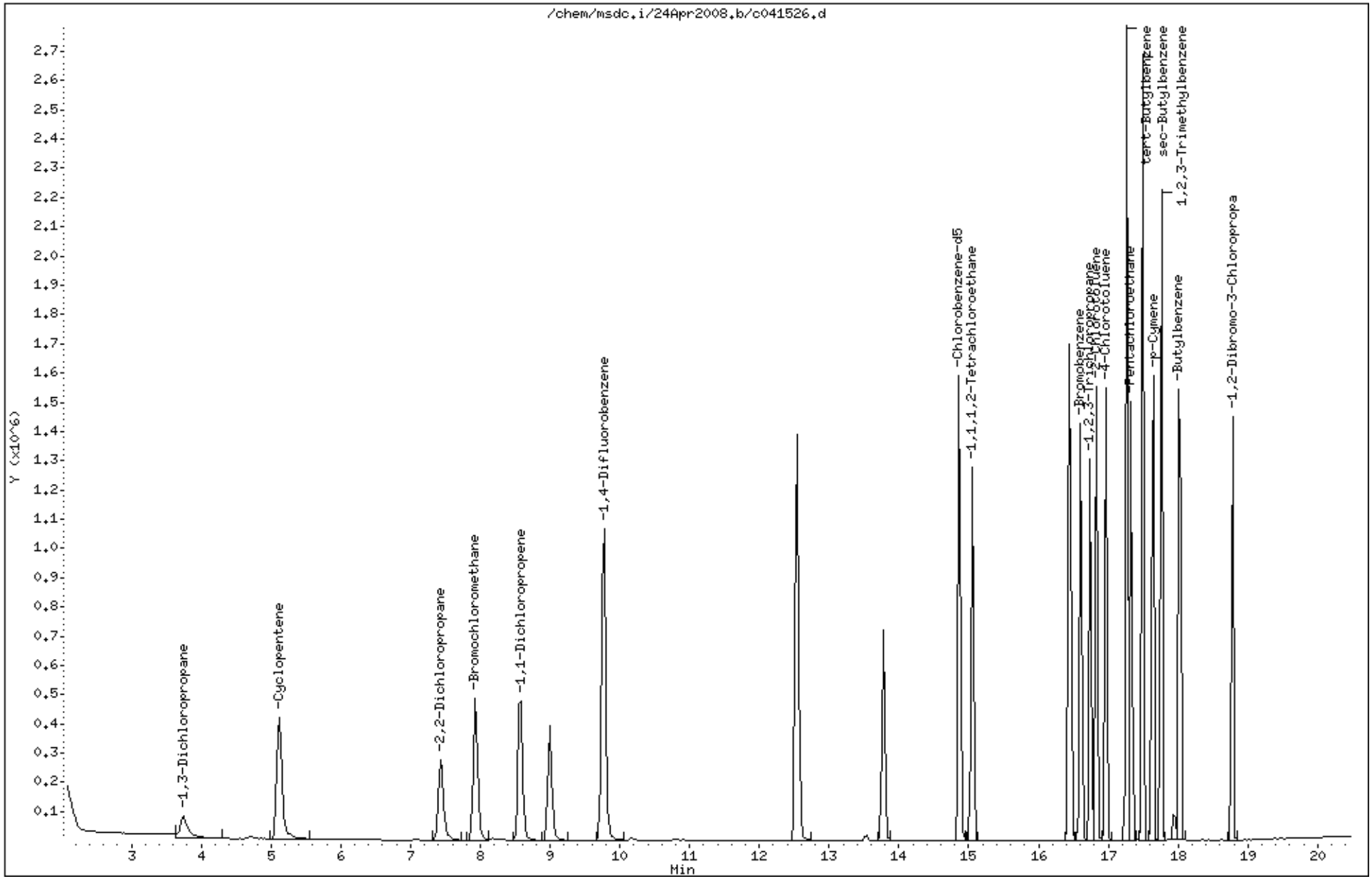
0320

Data File: /chem/msdc.i/24Apr2008.b/c041526.d
Date : 16-APR-2008 12:15
Client ID:
Sample Info: 25ml,34399

Column phase: RTx-624

Instrument: msdc.i

Operator: ly
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042419.d
Lab Smp Id: 1544-77 Client Smp ID: Level7
Inj Date : 24-APR-2008 17:57
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,1434
Misc Info : 1000ppbv>1000ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:51 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 17:57 Cal File: c042419.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Napth+TBA.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	411029	400.000		70.00- 130.00	100.00
7.921	7.921 (1.000)	128	323016			48.74- 108.74	78.59
7.921	7.921 (1.000)	49	465671			89.05- 149.05	113.29
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1890920	400.000		70.00- 130.00	100.00
9.746	9.746 (1.000)	88	342458			0.00- 47.75	18.11
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1600724	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	1002631			0.00- 30.00	62.64
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.971	8.971 (1.133)	65	776118	400.000	387.70	70.00- 130.00	100.00
8.971	8.971 (1.133)	67	366794			0.00- 30.00	47.26
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.538	12.538 (1.287)	98	1860391	400.000	394.57	70.00- 130.00	100.00
12.510	12.510 (1.284)	70	220663			0.00- 30.00	11.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.538	12.538 (1.287)	100	1167645			0.00- 30.00	62.76
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	970352	400.000	380.32	70.00- 130.00	100.00
16.437	16.437 (1.106)	95	1471931			118.92- 178.92	151.69
16.437	16.437 (1.106)	176	938657			66.54- 126.54	96.73
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.488	5.488 (0.693)	59	2308795	1000.00	943.38	70.00- 130.00	100.00
5.488	5.488 (0.693)	41	486268			0.00- 30.00	21.06
5.488	5.488 (0.693)	57	253733			0.00- 30.00	10.99
165 Naphthalene					CAS #: 91-20-3		
19.561	19.561 (1.316)	128	9105159	1000.00	1176.8	70.00- 130.00	100.00(A)
19.561	19.561 (1.316)	127	1193191			0.00- 30.00	13.10

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 25-Apr-2008 15:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042419.d
Lab Smp Id: 1544-77
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 1000ppbv>1000ppbv

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: Level7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	411029	-0.87
92 1,4-Difluorobenze	1880051	1128031	2632071	1890920	0.58
125 Chlorobenzene-d5	1629476	977686	2281266	1600724	-1.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

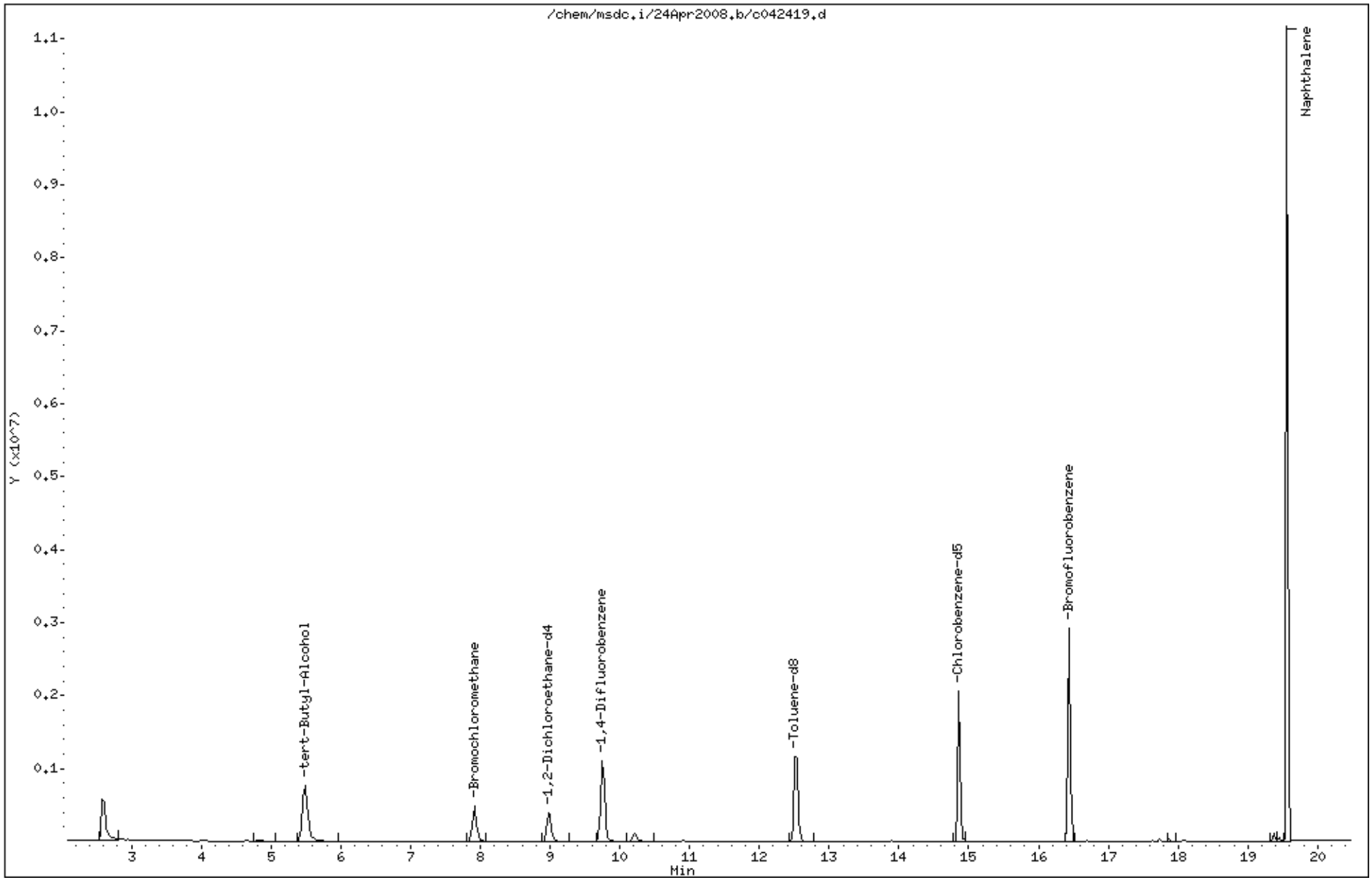
0324

Data File: /chem/msdc.i/24Apr2008.b/c042419.d
Date : 24-APR-2008 17:57
Client ID: Level7
Sample Info: 50mL,1434

Column phase: RTx-624

Instrument: msdc.i

Operator: ac
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042418.d
Lab Smp Id: 1544-86 Client Smp ID: Level7
Inj Date : 24-APR-2008 17:23
Operator : ly Inst ID: msdc.i
Smp Info : 20mL,33873
Misc Info : 2500ppbv>1000
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:51 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 17:57 Cal File: c042419.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04(High)+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	424005	400.000		70.00- 130.00	100.00
7.921	7.921 (1.000)	128	331305			48.74- 108.74	78.14
7.921	7.921 (1.000)	49	499340			89.05- 149.05	117.77
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1894256	400.000		70.00- 130.00	100.00
9.746	9.746 (1.000)	88	339175			0.00- 47.75	17.91
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1640487	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	1034313			0.00- 30.00	63.05
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.972	8.972 (1.133)	65	841025	400.000	405.06	70.00- 130.00	100.00
8.972	8.972 (1.133)	67	512969			0.00- 30.00	60.99
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.511	12.511 (1.284)	98	1935436	400.000	408.04	70.00- 130.00	100.00
12.511	12.511 (1.284)	70	227200			0.00- 30.00	11.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.511	12.511 (1.284)	100	1995074			0.00- 30.00	103.08
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1026607	400.000	391.28	70.00- 130.00	100.00
16.437	16.437 (1.106)	95	1526747			118.92- 178.92	148.72
16.437	16.437 (1.106)	176	997993			66.54- 126.54	97.21
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	1189317	1000.00	1029.8	70.00- 130.00	100.00
2.225	2.225 (0.281)	42	765552			0.00- 30.00	64.37
2.225	2.225 (0.281)	39	980347			0.00- 30.00	82.43
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	5310420	1000.00	1033.6	70.00- 130.00	100.00
2.280	2.280 (0.288)	87	1699628			0.00- 30.00	32.01
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	4039721	1000.00	1056.8	70.00- 130.00	100.00
2.446	2.446 (0.309)	137	1248983			1.97- 61.97	30.92
10 Chloromethane					CAS #: 74-87-3		
2.529	2.529 (0.319)	50	2088136	1000.00	1088.8	70.00- 130.00	100.00
2.557	2.557 (0.323)	52	549411			0.00- 30.00	26.31
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	2014048	1000.00	1080.0	70.00- 130.00	100.00
2.695	2.695 (0.340)	64	645989			0.00- 30.00	32.07
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.347)	54	1327699	1000.00	1271.8	70.00- 130.00	100.00(M)
2.612	2.612 (0.330)	39	771967			0.00- 30.00	58.14
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	1564994	1000.00	1287.1	70.00- 130.00	100.00
3.193	3.193 (0.403)	96	1458360			61.22- 121.22	93.19
19 Chloroethane					CAS #: 75-00-3		
3.359	3.359 (0.424)	64	1025997	1000.00	1249.8	70.00- 130.00	100.00
3.331	3.331 (0.421)	49	236928			0.00- 30.00	23.09
3.331	3.331 (0.421)	66	300252			0.00- 30.00	29.26
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.635	3.635 (0.459)	101	6922686	1000.00	1103.1	70.00- 130.00	100.00
3.635	3.635 (0.459)	103	4464395			33.86- 93.86	64.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.022	4.022 (0.508)	45	666670	1000.00	1043.1	70.00- 130.00	100.00
4.022	4.022 (0.508)	43	238832			0.00- 30.00	35.82
4.022	4.022 (0.508)	46	267576			0.00- 30.00	40.14
30 Freon 113					CAS #: 76-13-1		
4.465	4.465 (0.564)	151	3151280	1000.00	1127.4	70.00- 130.00	100.00
4.465	4.465 (0.564)	153	1997005			32.96- 92.96	63.37
4.437	4.437 (0.560)	101	3261551			75.50- 135.50	103.50
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.465	4.465 (0.564)	61	4233675	1000.00	1076.0	70.00- 130.00	100.00
4.465	4.465 (0.564)	96	2369695			25.95- 85.95	55.97
4.465	4.465 (0.564)	98	1496866			5.66- 65.66	35.36
32 Acetone					CAS #: 67-64-1		
4.631	4.631 (0.585)	58	964275	1000.00	1040.3	70.00- 130.00	100.00
4.631	4.631 (0.585)	43	3333502			0.00- 30.00	345.70
36 2-Propanol					CAS #: 67-63-0		
4.824	4.824 (0.609)	45	3491929	1000.00	1138.6	70.00- 130.00	100.00
4.824	4.824 (0.609)	43	881627			0.00- 30.00	25.25
4.824	4.824 (0.609)	59	154501			0.00- 30.00	4.42
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	5812958	1000.00	1118.5	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	1177839	1000.00	1003.1	70.00- 130.00	100.00
5.073	5.073 (0.640)	41	2557856			0.00- 30.00	217.17
43 Methylene Chloride					CAS #: 75-09-2		
5.349	5.349 (0.675)	49	2167137	1000.00	989.49	70.00- 130.00	100.00
5.349	5.349 (0.675)	84	1868475			55.75- 115.75	86.22
5.349	5.349 (0.675)	51	656119			0.00- 30.00	30.28
46 MTBE					CAS #: 1634-04-4		
5.654	5.654 (0.714)	73	2669085	1000.00	1064.4	70.00- 130.00	100.00
5.654	5.654 (0.714)	57	527543			0.00- 48.79	19.76
5.654	5.654 (0.714)	41	488844			0.00- 30.00	18.32
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.709	5.709 (0.721)	96	2336874	1000.00	1076.4	70.00- 130.00	100.00
5.681	5.681 (0.717)	61	3442606			119.68- 179.68	147.32
5.709	5.709 (0.721)	98	1469087			0.00- 30.00	62.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.013	6.013 (0.759)	57	3451128	1000.00	1048.6	70.00- 130.00	100.00
6.013	6.013 (0.759)	43	2045064			0.00- 30.00	59.26
6.013	6.013 (0.759)	86	680924			0.00- 30.00	19.73
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.483	6.483 (0.818)	63	4237303	1000.00	1111.5	70.00- 130.00	100.00
6.483	6.483 (0.818)	65	1344548			1.47- 61.47	31.73
67 2-Butanone					CAS #: 78-93-3		
7.534	7.534 (0.951)	72	1132582	1000.00	1099.9	70.00- 130.00	100.00
7.534	7.534 (0.951)	43	4043966			333.51- 393.51	357.06
7.534	7.534 (0.951)	57	361990			0.00- 30.00	31.96
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.478	7.478 (0.944)	61	3169871	1000.00	1069.0	70.00- 130.00	100.00
7.478	7.478 (0.944)	96	2302952			42.16- 102.16	72.65
7.478	7.478 (0.944)	98	1465922			15.86- 75.86	46.25
70 Tetrahydrofuran					CAS #: 109-99-9		
7.893	7.893 (0.996)	42	2172545	1000.00	1098.9	70.00- 130.00	100.00
7.893	7.893 (0.996)	71	1010105			17.18- 77.18	46.49
7.893	7.893 (0.996)	72	1118693			0.00- 30.00	51.49
72 Chloroform					CAS #: 67-66-3		
8.031	8.031 (1.014)	83	5338502	1000.00	1084.0	70.00- 130.00	100.00
8.031	8.031 (1.014)	85	3431039			33.60- 93.60	64.27
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.280	8.280 (1.045)	97	5791317	1000.00	1176.1	70.00- 130.00	100.00
8.280	8.280 (1.045)	99	3694825			32.77- 92.77	63.80
74 Cyclohexane					CAS #: 110-82-7		
8.225	8.225 (1.038)	84	3053087	1000.00	1097.4	70.00- 130.00	100.00
8.225	8.225 (1.038)	56	3297988			74.35- 134.35	108.02
8.225	8.225 (1.038)	41	1869709			29.63- 89.63	61.24
56 Vinyl Acetate					CAS #: 108-05-4		
6.538	6.538 (0.825)	86	635423	1000.00	1093.1	70.00- 130.00	100.00
6.538	6.538 (0.825)	43	5439804			0.00- 30.00	856.09
6.538	6.538 (0.825)	42	529773			0.00- 30.00	83.37
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.501	8.501 (1.073)	119	6426940	1000.00	1169.6	70.00- 130.00	100.00
8.501	8.501 (1.073)	117	6724203			74.30- 134.30	104.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.889	8.889 (1.122)	57	10236134	1000.00	1101.1	70.00- 130.00	100.00
8.889	8.889 (1.122)	56	3025762			0.00- 30.00	29.56
8.889	8.889 (1.122)	41	3069662			0.00- 30.00	29.99
81 Benzene					CAS #: 71-43-2		
8.916	8.916 (0.915)	78	6800068	1000.00	1092.8	70.00- 130.00	100.00
8.916	8.916 (0.915)	77	1624643			0.00- 30.00	23.89
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.110	9.110 (0.935)	62	4041939	1000.00	1093.5	70.00- 130.00	100.00
9.110	9.110 (0.935)	64	1316100			0.00- 30.00	32.56
90 Heptane					CAS #: 142-82-5		
9.276	9.276 (0.952)	100	835508	1000.00	993.30	70.00- 130.00	100.00
9.276	9.276 (0.952)	43	3588012			0.00- 30.00	429.44
9.276	9.276 (0.952)	71	2476229			0.00- 30.00	296.37
93 Trichloroethene					CAS #: 79-01-6		
10.133	10.133 (1.040)	95	3220361	1000.00	1067.8	70.00- 130.00	100.00
10.160	10.160 (1.043)	130	3069067			65.39- 125.39	95.30
10.133	10.133 (1.040)	97	2063927			34.09- 94.09	64.09
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.686	10.686 (1.096)	63	2169631	1000.00	1087.4	70.00- 130.00	100.00
10.686	10.686 (1.096)	62	1488883			40.41- 100.41	68.62
10.686	10.686 (1.096)	41	1558799			42.79- 102.79	71.85
99 1,4-Dioxane					CAS #: 123-91-1		
10.907	10.907 (1.119)	88	1551310	1000.00	1098.0	70.00- 130.00	100.00
10.907	10.907 (1.119)	58	1003201			35.04- 95.04	64.67
10.907	10.907 (1.119)	57	344029			0.00- 30.00	22.18
100 Bromodichloromethane					CAS #: 75-27-4		
11.239	11.239 (1.153)	83	5797441	1000.00	1119.9	70.00- 130.00	100.00
11.239	11.239 (1.153)	85	3680451			34.08- 94.08	63.48
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.151	12.151 (1.247)	75	3915523	1000.00	1111.9	70.00- 130.00	100.00
12.151	12.151 (1.247)	77	1225204			0.86- 60.86	31.29
12.151	12.151 (1.247)	39	2129067			24.35- 84.35	54.38
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	1014768	1000.00	1097.8	70.00- 130.00	100.00
12.455	12.455 (1.278)	43	4563307			0.00- 30.00	449.69
12.455	12.455 (1.278)	58	1821022			0.00- 30.00	179.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	8402130	1000.00	1096.6	70.00- 130.00	100.00
12.649	12.649 (1.298)	92	4855429			28.07- 88.07	57.79
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.230	13.230 (0.890)	75	4479158	1000.00	1104.0	70.00- 130.00	100.00
13.230	13.230 (0.890)	77	1415863			0.00- 60.00	31.61
13.230	13.230 (0.890)	39	2107703			16.18- 76.18	47.06
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	2754134	1000.00	1066.8	70.00- 130.00	100.00
13.506	13.506 (0.909)	99	1685155			31.16- 91.16	61.19
13.506	13.506 (0.909)	83	2241128			50.03- 110.03	81.37
116 Tetrachloroethene					CAS #: 127-18-4		
13.534	13.534 (0.911)	166	3819908	1000.00	1043.6	70.00- 130.00	100.00
13.506	13.506 (0.909)	129	3185816			52.73- 112.73	83.40
13.506	13.506 (0.909)	131	3042248			48.38- 108.38	79.64
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	2433681	1000.00	1076.0	70.00- 130.00	100.00
13.893	13.893 (0.935)	43	4533602			156.81- 216.81	186.29
13.893	13.893 (0.935)	100	622478			0.00- 30.00	25.58
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	5603881	1000.00	1150.0	70.00- 130.00	100.00
14.059	14.059 (0.946)	127	4370380			0.00- 30.00	77.99
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	4328934	1000.00	1066.0	70.00- 130.00	100.00
14.225	14.225 (0.957)	109	4041557			62.95- 122.95	93.36
126 Chlorobenzene					CAS #: 108-90-7		
14.889	14.889 (1.002)	112	6583502	1000.00	1056.2	70.00- 130.00	100.00
14.889	14.889 (1.002)	114	2067900			2.29- 62.29	31.41
14.889	14.889 (1.002)	77	4250298			35.81- 95.81	64.56
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	3387497	1000.00	1047.3	70.00- 130.00	100.00
15.027	15.027 (1.011)	91	12186103			0.00- 30.00	359.74
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.193 (1.022)	106	4329824	1000.00	1061.6	70.00- 130.00	100.00
15.193	15.193 (1.022)	91	10326963			0.00- 30.00	238.51
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	3979216	1000.00	1042.2	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.718	15.718 (1.058)	91	10090125			220.82- 280.82	253.57
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	6810352	1000.00	1167.1	70.00- 130.00	100.00
15.773	15.773 (1.061)	78	4190781			31.74- 91.74	61.54
134 Bromoform					CAS #: 75-25-2		
16.050	16.050 (1.080)	173	5143638	1000.00	1162.8	70.00- 130.00	100.00
16.050	16.050 (1.080)	171	2653129			21.07- 81.07	51.58
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	5878552	1000.00	1149.5	70.00- 130.00	100.00
16.686	16.686 (1.123)	85	3756772			33.63- 93.63	63.91
144 4-Ethyltoluene					CAS #: 622-96-8		
16.852	16.852 (1.134)	105	14312763	1000.00	1274.4	70.00- 130.00	100.00
16.852	16.852 (1.134)	120	3914756			0.00- 57.92	27.35
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.935	16.935 (1.140)	105	12036431	1000.00	1193.9	70.00- 130.00	100.00
16.935	16.935 (1.140)	120	5271396			0.00- 30.00	43.80
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.322 (1.166)	105	12349131	1000.00	1201.0	70.00- 130.00	100.00
17.322	17.322 (1.166)	120	4747130			9.81- 69.81	38.44
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	6650424	1000.00	1075.0	70.00- 130.00	100.00
17.626	17.626 (1.186)	148	4198349			0.00- 30.00	63.13
17.626	17.626 (1.186)	111	3227842			0.00- 30.00	48.54
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	8315214	1000.00	1232.7	70.00- 130.00	100.00
17.736	17.736 (1.193)	148	5163138			0.00- 30.00	62.09
17.736	17.736 (1.193)	111	3511304			0.00- 30.00	42.23
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.875 (1.203)	91	13158532	1000.00	1384.0	70.00- 130.00	100.00
17.875	17.875 (1.203)	126	2184037			0.00- 30.00	16.60
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	6298721	1000.00	1135.3	70.00- 130.00	100.00
18.096	18.096 (1.218)	148	3961479			34.14- 94.14	62.89
18.096	18.096 (1.218)	111	2793669			14.99- 74.99	44.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.395	19.395 (1.305)	180	3358680	1000.00	967.99	70.00- 130.00	100.00
19.395	19.395 (1.305)	182	3181890			64.84- 124.84	94.74
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.451	19.451 (1.309)	225	3606345	1000.00	993.97	70.00- 130.00	100.00
19.451	19.451 (1.309)	223	2313818			33.24- 93.24	64.16
142 Propylbenzene					CAS #: 103-65-1		
16.713	16.713 (1.125)	91	16085297	1000.00	1225.8	70.00- 130.00	100.00
16.713	16.713 (1.125)	120	3456420			0.00- 30.00	21.49
16.713	16.713 (1.125)	105	581466			0.00- 30.00	3.61
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	14000488	1000.00	1237.6	70.00- 130.00	100.00
16.188	16.188 (1.089)	120	3311848			0.00- 30.00	23.66
16.188	16.188 (1.089)	51	1244976			0.00- 30.00	8.89
17 Isopentane					CAS #: 78-78-4		
3.331	3.331 (0.421)	43	1691027	1000.00	1028.3	70.00- 130.00	100.00
3.331	3.331 (0.421)	57	1419278			0.00- 30.00	83.93
3.331	3.331 (0.421)	72	145159			0.00- 30.00	8.58
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.337)	58	382115	1000.00	970.66	70.00- 130.00	100.00(M)
2.446	2.446 (0.309)	43	9270			0.00- 30.00	2.43
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.354	10.354 (1.062)	83	4269890	1000.00	1081.6	70.00- 130.00	100.00
10.354	10.354 (1.062)	98	2087170			0.00- 30.00	48.88
10.354	10.354 (1.062)	55	3229945			0.00- 30.00	75.64

QC Flag Legend

M - Compound response manually integrated.

Report Date: 25-Apr-2008 15:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042418.d
Lab Smp Id: 1544-86
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 2500ppbv>1000

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: Level7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	424005	2.26
92 1,4-Difluorobenze	1880051	1128031	2632071	1894256	0.76
125 Chlorobenzene-d5	1629476	977686	2281266	1640487	0.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

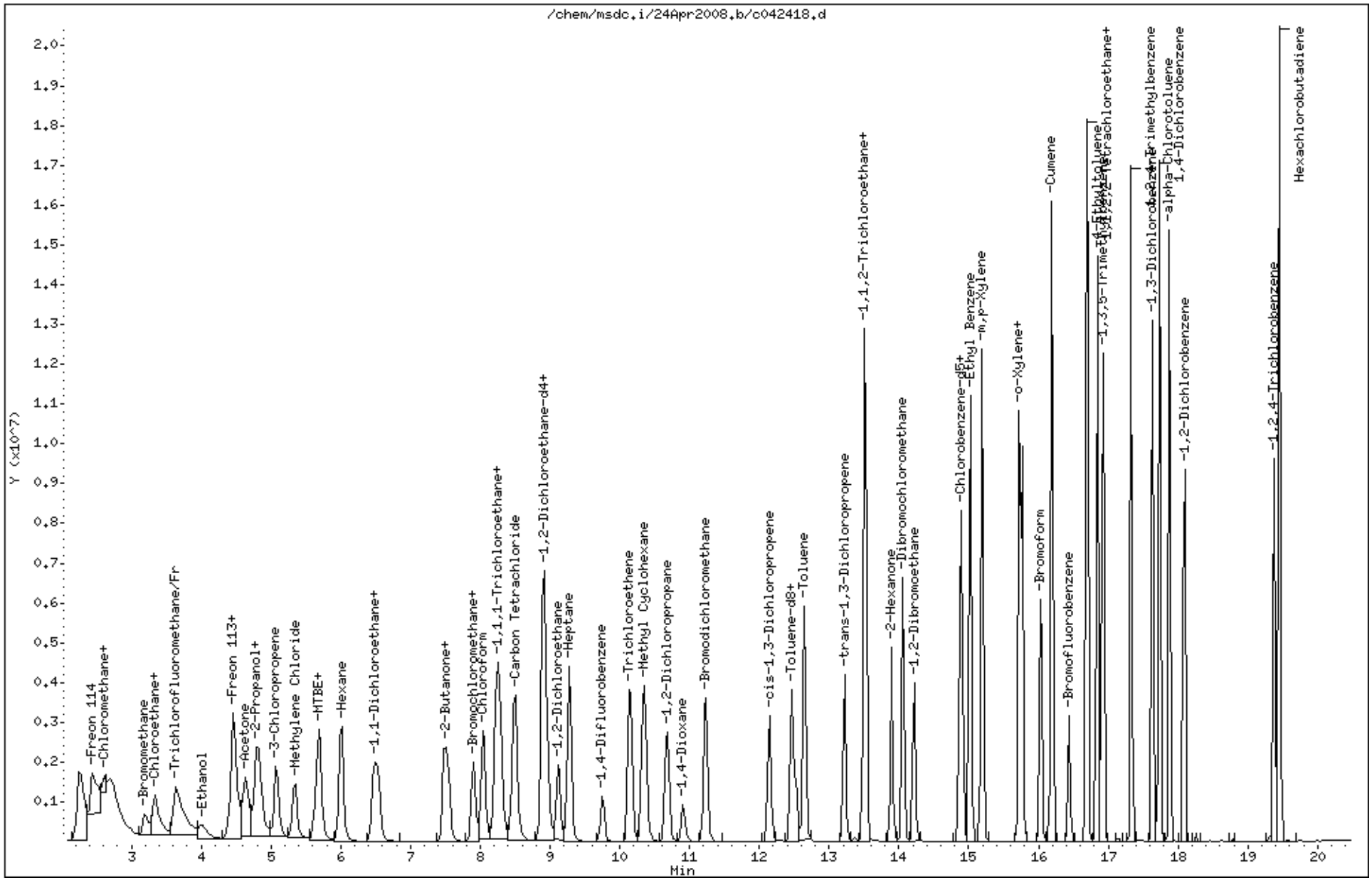
0334

Data File: /chem/msdc.i/24Apr2008.b/c042418.d
Date : 24-APR-2008 17:23
Client ID: Level7
Sample Info: 20mL,33873

Instrument: msdc.i

Operator: ly
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041531.d
Lab Smp Id: 1443-372
Inj Date : 16-APR-2008 14:41
Operator : ac Inst ID: msdc.i
Smp Info : 1ml,13662
Misc Info : 50ppmv->1000ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:16 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 14:41 Cal File: c041531.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Dibromnosurr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.948	7.948 (1.000)	130	433220	400.000		70.00- 130.00	100.00
7.948	7.948 (1.000)	128	341001			44.75- 104.75	78.71
7.948	7.948 (1.000)	49	528860			93.77- 153.77	122.08
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.773	9.773 (1.000)	114	1990136	400.000		70.00- 130.00	100.00
9.773	9.773 (1.000)	88	338097			0.00- 46.99	16.99
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1591584	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	968260			0.00- 30.00	60.84
95 Dibromomethane					CAS #: 74-95-3		
10.935	10.935 (1.119)	174	1458962	1000.00	747.06	70.00- 130.00	100.00
10.935	10.935 (1.119)	93	1551052			0.00- 30.00	106.31
10.935	10.935 (1.119)	95	1279780			0.00- 30.00	87.72

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041531.d
Lab Smp Id: 1443-372
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 50ppmv->1000ppbv

Calibration Date: 16-APR-2008
Calibration Time: 14:15
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	438847	263308	614386	433220	-1.28
92 1,4-Difluorobenze	2002397	1201438	2803356	1990136	-0.61
125 Chlorobenzene-d5	1615958	969575	2262341	1591584	-1.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.95	7.62	8.28	7.95	0.00
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

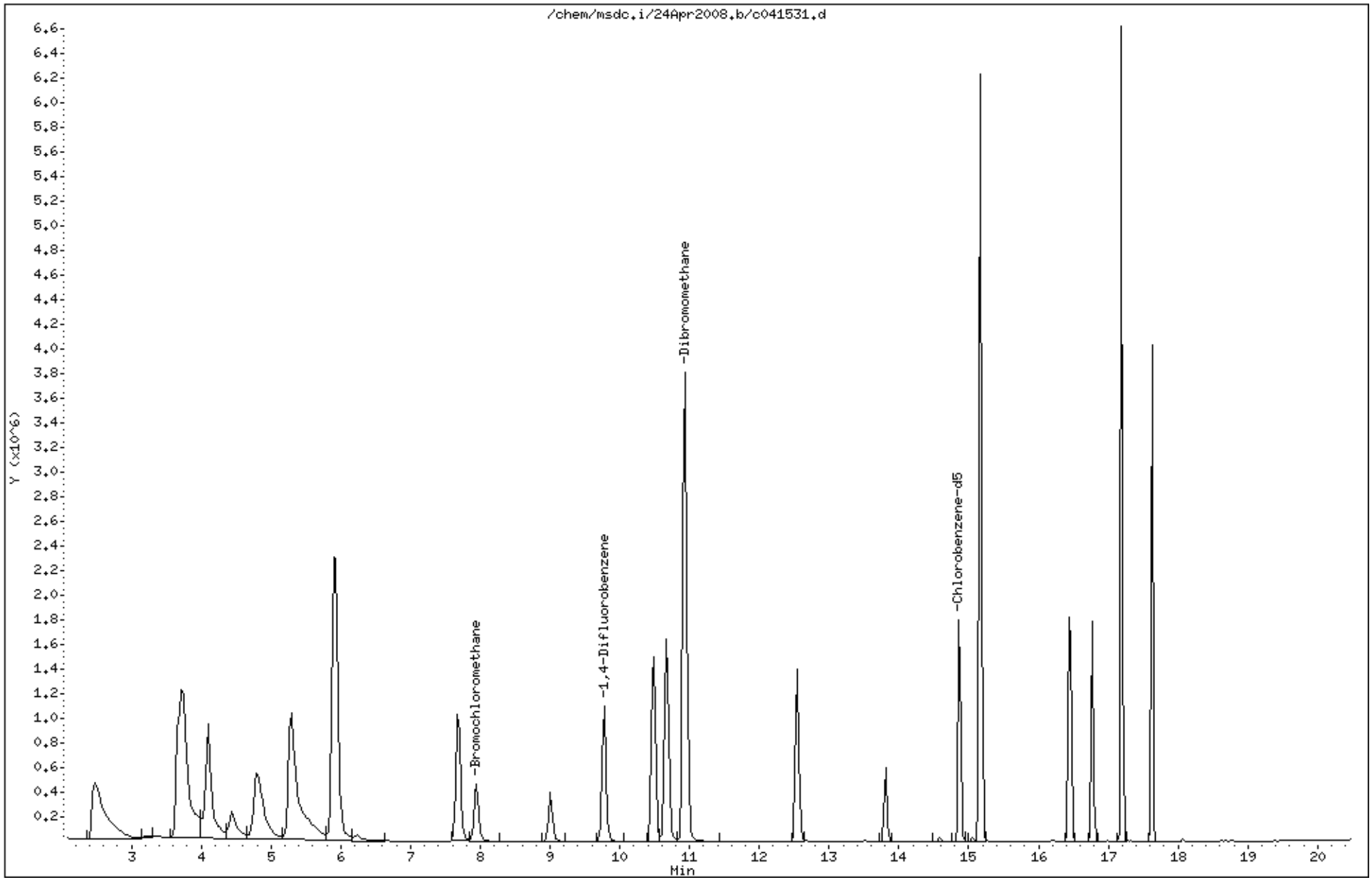
0337

Data File: /chem/msdc.i/24Apr2008.b/c041531.d
Date : 16-APR-2008 14:41
Client ID:
Sample Info: 1ml,13662

Column phase: RTx-624

Instrument: msdc.i

Operator: ac
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c041527.d
Lab Smp Id: 1541-42
Inj Date : 16-APR-2008 12:51
Operator : ly Inst ID: msdc.i
Smp Info : 1.0ml,33589
Misc Info : 50ppmv->1000ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:15 mwolf Quant Type: ISTD
Cal Date : 16-APR-2008 12:51 Cal File: c041527.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Spbt2nosurr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane						CAS #: 74-97-5	
7.949	7.949 (1.000)	130	436826	400.000		70.00- 130.00	100.00
7.949	7.949 (1.000)	128	346442			47.60- 107.60	79.31
7.921	7.921 (1.000)	49	538099			90.73- 150.73	123.18
* 92 1,4-Difluorobenzene						CAS #: 540-36-3	
9.773	9.773 (1.000)	114	1996113	400.000		70.00- 130.00	100.00
9.773	9.773 (1.000)	88	338424			0.00- 46.82	16.95
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.861	14.861 (1.000)	117	1607381	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	981276			0.00- 30.00	61.05
59 1,3-Dichloropropane						CAS #: 142-28-9	
3.773	3.773 (0.386)	76	685155	1000.00	1346.6	70.00- 130.00	100.00
3.773	3.773 (0.386)	41	1439426			176.79- 236.79	210.09
3.773	3.773 (0.386)	78	221106			0.00- 30.00	32.27
192 Cyclopentene						CAS #: 142-29-0	
5.128	5.128 (0.645)	67	4169540	1000.00	957.46	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
192 Cyclopentene (continued)							
5.128	5.128 (0.645)	68	1614391			0.00- 30.00	38.72
5.128	5.128 (0.645)	53	755084			0.00- 30.00	18.11
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.423	7.423 (0.934)	77	1521677	1000.00	752.35	70.00- 130.00	100.00
7.423	7.423 (0.934)	79	494488			1.62- 61.62	32.50
7.423	7.423 (0.934)	97	294452			0.00- 30.00	19.35
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.584	8.584 (1.080)	110	1088793	1000.00	1045.1	70.00- 130.00	100.00
8.584	8.584 (1.080)	75	3254040			0.00- 30.00	298.87
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.054	15.054 (1.013)	131	3205972	1000.00	1052.4	70.00- 130.00	100.00
15.054	15.054 (1.013)	117	1964753			0.00- 30.00	61.28
15.054	15.054 (1.013)	95	1271416			0.00- 30.00	39.66
137 Bromobenzene					CAS #: 108-86-1		
16.603	16.603 (1.117)	156	3079513	1000.00	1009.6	70.00- 130.00	100.00
16.603	16.603 (1.117)	77	5626471			151.65- 211.65	182.71
16.603	16.603 (1.117)	158	2971945			0.00- 30.00	96.51
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.741	16.741 (1.127)	110	1637476	1000.00	981.38	70.00- 130.00	100.00
16.741	16.741 (1.127)	61	1032049			0.00- 30.00	63.03
16.741	16.741 (1.127)	112	1036968			0.00- 30.00	63.33
140 2-Chlorotoluene					CAS #: 95-49-8		
16.824	16.824 (1.132)	126	2450996	1000.00	1022.5	70.00- 130.00	100.00
16.824	16.824 (1.132)	91	8270954			317.16- 377.16	337.45
16.824	16.824 (1.132)	65	754836			0.00- 30.00	30.80
143 4-Chlorotoluene					CAS #: 106-43-4		
16.962	16.962 (1.141)	126	2480437	1000.00	1028.5	70.00- 130.00	100.00
16.962	16.962 (1.141)	91	8544374			313.12- 373.12	344.47
16.962	16.962 (1.141)	63	1022174			0.00- 30.00	41.21
149 tert-Butylbenzene					CAS #: 98-06-6		
17.266	17.266 (1.162)	119	10583235	1000.00	1088.2	70.00- 130.00	100.00
17.266	17.266 (1.162)	134	2542463			0.00- 51.90	24.02
17.266	17.266 (1.162)	91	7731162			0.00- 30.00	73.05
150 Pentachloroethane					CAS #: 76-01-7		
17.349	17.349 (1.167)	167	2477092	1000.00	1073.6	70.00- 130.00	100.00
17.322	17.322 (1.166)	117	2567489			0.00- 30.00	103.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
151 sec-Butylbenzene					CAS #: 135-98-8		
17.488	17.488 (1.177)	105	15670864	1000.00	1138.8	70.00- 130.00	100.00
17.488	17.488 (1.177)	134	2837621			0.00- 48.67	18.11
17.488	17.488 (1.177)	91	2690306			0.00- 30.00	17.17
153 p-Cymene					CAS #: 99-87-6		
17.653	17.653 (1.188)	134	3190469	1000.00	1189.9	70.00- 130.00	100.00
17.653	17.653 (1.188)	119	12970314			375.47- 435.47	406.53
17.653	17.653 (1.188)	91	3071217			0.00- 30.00	96.26
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.764	17.764 (1.195)	120	4252232	1000.00	1106.2	70.00- 130.00	100.00
17.764	17.764 (1.195)	105	10888874			212.98- 272.98	256.07
17.764	17.764 (1.195)	77	1218435			0.00- 30.00	28.65
158 Butylbenzene					CAS #: 104-51-8		
18.041	18.041 (1.214)	134	2987003	1000.00	1199.2	70.00- 130.00	100.00
18.013	18.013 (1.212)	91	11345985			324.44- 384.44	379.85
18.013	18.013 (1.212)	92	5974698			0.00- 30.00	200.02
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.787	18.787 (1.264)	157	4017626	1000.00	1249.1	70.00- 130.00	100.00
18.787	18.787 (1.264)	75	3507293			54.32- 114.32	87.30
18.787	18.787 (1.264)	155	3158639			0.00- 30.00	78.62

Report Date: 25-Apr-2008 15:15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041527.d
Lab Smp Id: 1541-42
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 50ppmv->1000ppbv

Calibration Date: 16-APR-2008
Calibration Time: 12:15
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	445129	267077	623181	436826	-1.87
92 1,4-Difluorobenze	1996358	1197815	2794901	1996113	-0.01
125 Chlorobenzene-d5	1195769	717461	1674077	1607381	34.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.95	0.35
92 1,4-Difluorobenze	9.77	9.44	10.10	9.77	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

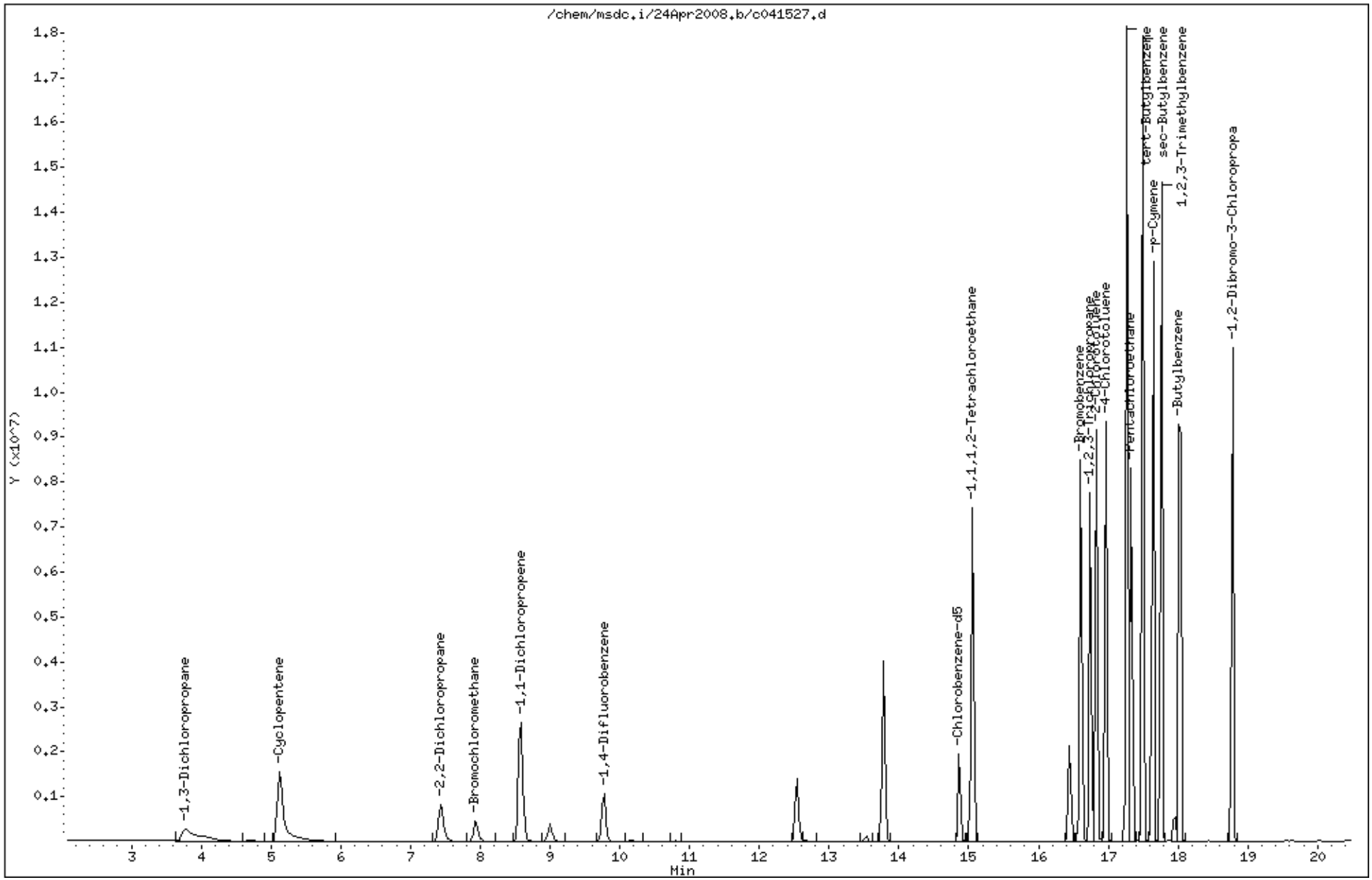
0342

Data File: /chem/msdc.i/24Apr2008.b/c041527.d
Date : 16-APR-2008 12:51
Client ID:
Sample Info: 1.0ml,33589

Instrument: msdc.i

Operator: ly
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042420.d
Lab Smp Id: 1544-86 Client Smp ID: Level8
Inj Date : 24-APR-2008 18:54
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,33873
Misc Info : 2500ppbv>2500ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:51 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 18:54 Cal File: c042420.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04(High)+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	412515	400.000		70.00- 130.00	100.00
7.921	7.921 (1.000)	128	325072			48.74- 108.74	78.80
7.921	7.921 (1.000)	49	506160			89.05- 149.05	122.70
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1842696	400.000		70.00- 130.00	100.00
9.746	9.746 (1.000)	88	330134			0.00- 47.75	17.92
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1609055	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	1026718			0.00- 30.00	63.81
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.972	8.972 (1.133)	65	879396	400.000	437.71	70.00- 130.00	100.00
8.972	8.972 (1.133)	67	430027			0.00- 30.00	48.90
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.538	12.538 (1.287)	98	1915013	400.000	416.78	70.00- 130.00	100.00
12.511	12.511 (1.284)	70	231234			0.00- 30.00	12.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.455	12.455 (1.278)	100	3069096			0.00- 30.00	160.27
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1007813	400.000	392.96	70.00- 130.00	100.00
16.437	16.437 (1.106)	95	1489038			118.92- 178.92	147.75
16.437	16.437 (1.106)	176	978209			66.54- 126.54	97.06
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	2860573	2500.00	2545.8	70.00- 130.00	100.00
2.225	2.225 (0.281)	42	1868076			0.00- 30.00	65.30
2.225	2.225 (0.281)	39	2299472			0.00- 30.00	80.39
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	12406123	2500.00	2481.9	70.00- 130.00	100.00
2.280	2.280 (0.288)	87	3941496			0.00- 30.00	31.77
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	9404228	2500.00	2528.8	70.00- 130.00	100.00
2.446	2.446 (0.309)	137	2990093			1.97- 61.97	31.80
10 Chloromethane					CAS #: 74-87-3		
2.529	2.529 (0.319)	50	4690340	2500.00	2513.9	70.00- 130.00	100.00
2.529	2.529 (0.319)	52	1248949			0.00- 30.00	26.63
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	4598643	2500.00	2534.7	70.00- 130.00	100.00
2.695	2.695 (0.340)	64	1446843			0.00- 30.00	31.46
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.347)	54	2771389	2500.00	2728.6	70.00- 130.00	100.00(TM)
0.000	1.000 (0.000)	39	0			0.00- 30.00	0.00
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	3875961	2500.00	3276.5	70.00- 130.00	100.00
3.193	3.193 (0.403)	96	3619178			61.22- 121.22	93.37
19 Chloroethane					CAS #: 75-00-3		
3.359	3.359 (0.424)	64	2538713	2500.00	3178.7	70.00- 130.00	100.00
3.331	3.331 (0.421)	49	559010			0.00- 30.00	22.02
3.359	3.359 (0.424)	66	724480			0.00- 30.00	28.54
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.663	3.663 (0.462)	101	15790947	2500.00	2586.3	70.00- 130.00	100.00
3.663	3.663 (0.462)	103	10144264			33.86- 93.86	64.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.022	4.022 (0.508)	45	1546722	2500.00	2487.5	70.00- 130.00	100.00
4.022	4.022 (0.508)	43	571243			0.00- 30.00	36.93
4.022	4.022 (0.508)	46	619985			0.00- 30.00	40.08
30 Freon 113					CAS #: 76-13-1		
4.465	4.465 (0.564)	151	7181020	2500.00	2640.8	70.00- 130.00	100.00
4.465	4.465 (0.564)	153	4577958			32.96- 92.96	63.75
4.465	4.465 (0.564)	101	7433500			75.50- 135.50	103.52
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.465	4.465 (0.564)	61	9790333	2500.00	2557.5	70.00- 130.00	100.00
4.465	4.465 (0.564)	96	5463433			25.95- 85.95	55.80
4.465	4.465 (0.564)	98	3466511			5.66- 65.66	35.41
32 Acetone					CAS #: 67-64-1		
4.631	4.631 (0.585)	58	2160916	2500.00	2396.3	70.00- 130.00	100.00
4.631	4.631 (0.585)	43	7268566			0.00- 30.00	336.37
36 2-Propanol					CAS #: 67-63-0		
4.852	4.852 (0.613)	45	7726275	2500.00	2589.4	70.00- 130.00	100.00
4.824	4.824 (0.609)	43	2253172			0.00- 30.00	29.16
4.852	4.852 (0.613)	59	381259			0.00- 30.00	4.93
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	12605151	2500.00	2493.0	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	3481418	2500.00	3047.6	70.00- 130.00	100.00
5.073	5.073 (0.640)	41	5781044			0.00- 30.00	166.05
43 Methylene Chloride					CAS #: 75-09-2		
5.349	5.349 (0.675)	49	4928869	2500.00	2313.2	70.00- 130.00	100.00
5.349	5.349 (0.675)	84	4251303			55.75- 115.75	86.25
5.349	5.349 (0.675)	51	1570384			0.00- 30.00	31.86
46 MTBE					CAS #: 1634-04-4		
5.654	5.654 (0.714)	73	4880610	2500.00	2000.6	70.00- 130.00	100.00
5.654	5.654 (0.714)	57	979148			0.00- 48.79	20.06
5.654	5.654 (0.714)	41	907165			0.00- 30.00	18.59
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.709	5.709 (0.721)	96	5304113	2500.00	2511.1	70.00- 130.00	100.00
5.681	5.681 (0.717)	61	7975730			119.68- 179.68	150.37
5.709	5.709 (0.721)	98	3345376			0.00- 30.00	63.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.013	6.013 (0.759)	57	7872597	2500.00	2458.6	70.00- 130.00	100.00
6.013	6.013 (0.759)	43	4654150			0.00- 30.00	59.12
6.013	6.013 (0.759)	86	1555183			0.00- 30.00	19.75
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.483	6.483 (0.818)	63	9673845	2500.00	2608.2	70.00- 130.00	100.00
6.483	6.483 (0.818)	65	3067287			1.47- 61.47	31.71
67 2-Butanone					CAS #: 78-93-3		
7.534	7.534 (0.951)	72	2636682	2500.00	2631.9	70.00- 130.00	100.00
7.534	7.534 (0.951)	43	9293293			333.51- 393.51	352.46
7.534	7.534 (0.951)	57	817769			0.00- 30.00	31.02
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.478	7.478 (0.944)	61	7270336	2500.00	2520.2	70.00- 130.00	100.00
7.478	7.478 (0.944)	96	5262284			42.16- 102.16	72.38
7.478	7.478 (0.944)	98	3319545			15.86- 75.86	45.66
70 Tetrahydrofuran					CAS #: 109-99-9		
7.893	7.893 (0.996)	42	4981887	2500.00	2590.2	70.00- 130.00	100.00
7.893	7.893 (0.996)	71	2307474			17.18- 77.18	46.32
7.893	7.893 (0.996)	72	2516189			0.00- 30.00	50.51
72 Chloroform					CAS #: 67-66-3		
8.031	8.031 (1.014)	83	12218269	2500.00	2550.1	70.00- 130.00	100.00
8.059	8.059 (1.017)	85	7837553			33.60- 93.60	64.15
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.280	8.280 (1.045)	97	12254594	2500.00	2558.0	70.00- 130.00	100.00
8.280	8.280 (1.045)	99	7794205			32.77- 92.77	63.60
74 Cyclohexane					CAS #: 110-82-7		
8.225	8.225 (1.038)	84	6236751	2500.00	2304.2	70.00- 130.00	100.00
8.225	8.225 (1.038)	56	7145135			74.35- 134.35	114.57
8.225	8.225 (1.038)	41	3978653			29.63- 89.63	63.79
56 Vinyl Acetate					CAS #: 108-05-4		
6.538	6.538 (0.825)	86	1454521	2500.00	2572.0	70.00- 130.00	100.00
6.538	6.538 (0.825)	43	12689467			0.00- 30.00	872.42
6.538	6.538 (0.825)	42	1211128			0.00- 30.00	83.27
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.501	8.501 (1.073)	119	14147165	2500.00	2646.3	70.00- 130.00	100.00
8.501	8.501 (1.073)	117	14836507			74.30- 134.30	104.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.889	8.889 (1.122)	57	23355118	2500.00	2582.2	70.00- 130.00	100.00
8.889	8.889 (1.122)	56	7066775			0.00- 30.00	30.26
8.889	8.889 (1.122)	41	6922370			0.00- 30.00	29.64
81 Benzene					CAS #: 71-43-2		
8.916	8.916 (0.915)	78	15319559	2500.00	2530.9	70.00- 130.00	100.00
8.916	8.916 (0.915)	77	3677735			0.00- 30.00	24.01
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.110	9.110 (0.935)	62	9028186	2500.00	2510.8	70.00- 130.00	100.00
9.137	9.137 (0.938)	64	2900057			0.00- 30.00	32.12
90 Heptane					CAS #: 142-82-5		
9.276	9.276 (0.952)	100	1882841	2500.00	2301.1	70.00- 130.00	100.00
9.276	9.276 (0.952)	43	8025802			0.00- 30.00	426.26
9.276	9.276 (0.952)	71	5516198			0.00- 30.00	292.97
93 Trichloroethene					CAS #: 79-01-6		
10.133	10.133 (1.040)	95	7320169	2500.00	2495.0	70.00- 130.00	100.00
10.160	10.160 (1.043)	130	6949098			65.39- 125.39	94.93
10.160	10.160 (1.043)	97	4672666			34.09- 94.09	63.83
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.686	10.686 (1.096)	63	4895392	2500.00	2522.2	70.00- 130.00	100.00
10.686	10.686 (1.096)	62	3400201			40.41- 100.41	69.46
10.686	10.686 (1.096)	41	3526807			42.79- 102.79	72.04
99 1,4-Dioxane					CAS #: 123-91-1		
10.907	10.907 (1.119)	88	3537172	2500.00	2573.7	70.00- 130.00	100.00
10.907	10.907 (1.119)	58	2277015			35.04- 95.04	64.37
10.907	10.907 (1.119)	57	777988			0.00- 30.00	21.99
100 Bromodichloromethane					CAS #: 75-27-4		
11.239	11.239 (1.153)	83	13463024	2500.00	2673.4	70.00- 130.00	100.00
11.239	11.239 (1.153)	85	8438724			34.08- 94.08	62.68
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.151	12.151 (1.247)	75	9175752	2500.00	2678.6	70.00- 130.00	100.00
12.151	12.151 (1.247)	77	2842290			0.86- 60.86	30.98
12.151	12.151 (1.247)	39	4941074			24.35- 84.35	53.85
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	2343672	2500.00	2606.5	70.00- 130.00	100.00
12.455	12.455 (1.278)	43	10632352			0.00- 30.00	453.66
12.455	12.455 (1.278)	58	4230592			0.00- 30.00	180.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	19759816	2500.00	2651.2	70.00- 130.00	100.00
12.649	12.649 (1.298)	92	11236617			28.07- 88.07	56.87
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.230	13.230 (0.890)	75	10693874	2500.00	2687.2	70.00- 130.00	100.00
13.230	13.230 (0.890)	77	3306273			0.00- 60.00	30.92
13.230	13.230 (0.890)	39	4961281			16.18- 76.18	46.39
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	6461766	2500.00	2551.8	70.00- 130.00	100.00
13.506	13.506 (0.909)	99	3949863			31.16- 91.16	61.13
13.506	13.506 (0.909)	83	5242191			50.03- 110.03	81.13
116 Tetrachloroethene					CAS #: 127-18-4		
13.534	13.534 (0.911)	166	8970737	2500.00	2498.8	70.00- 130.00	100.00
13.506	13.506 (0.909)	129	7539124			52.73- 112.73	84.04
13.506	13.506 (0.909)	131	7171186			48.38- 108.38	79.94
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	5688754	2500.00	2564.4	70.00- 130.00	100.00
13.893	13.893 (0.935)	43	10775218			156.81- 216.81	189.41
13.893	13.893 (0.935)	100	1430735			0.00- 30.00	25.15
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	13231845	2500.00	2768.4	70.00- 130.00	100.00
14.059	14.059 (0.946)	127	10381661			0.00- 30.00	78.46
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	10233290	2500.00	2569.1	70.00- 130.00	100.00
14.225	14.225 (0.957)	109	9444555			62.95- 122.95	92.29
126 Chlorobenzene					CAS #: 108-90-7		
14.888	14.888 (1.002)	112	15709291	2500.00	2569.5	70.00- 130.00	100.00
14.888	14.888 (1.002)	114	4816929			2.29- 62.29	30.66
14.888	14.888 (1.002)	77	10059791			35.81- 95.81	64.04
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	8068996	2500.00	2543.5	70.00- 130.00	100.00
15.027	15.027 (1.011)	91	21977347			0.00- 30.00	272.37
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.193 (1.022)	106	10118954	2500.00	2529.5	70.00- 130.00	100.00
15.193	15.193 (1.022)	91	20229529			0.00- 30.00	199.92
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	9278742	2500.00	2477.7	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.718	15.718 (1.058)	91	22637755			220.82- 280.82	243.97
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	16275923	2500.00	2843.8	70.00- 130.00	100.00
15.773	15.773 (1.061)	78	9852195			31.74- 91.74	60.53
134 Bromoform					CAS #: 75-25-2		
16.050	16.050 (1.080)	173	12530372	2500.00	2887.9	70.00- 130.00	100.00
16.050	16.050 (1.080)	171	6437781			21.07- 81.07	51.38
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	13941268	2500.00	2779.4	70.00- 130.00	100.00
16.686	16.686 (1.123)	85	8857679			33.63- 93.63	63.54
144 4-Ethyltoluene					CAS #: 622-96-8		
16.852	16.852 (1.134)	105	21017671	2500.00	1908.0	70.00- 130.00	100.00
16.852	16.852 (1.134)	120	9516128			0.00- 57.92	45.28
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.935	16.935 (1.140)	105	22037353	2500.00	2228.6	70.00- 130.00	100.00
16.935	16.935 (1.140)	120	13064785			0.00- 30.00	59.28
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.322 (1.166)	105	20471900	2500.00	2029.9	70.00- 130.00	100.00
17.322	17.322 (1.166)	120	10623515			9.81- 69.81	51.89
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	15267783	2500.00	2516.2	70.00- 130.00	100.00
17.626	17.626 (1.186)	148	9503705			0.00- 30.00	62.25
17.626	17.626 (1.186)	111	7111542			0.00- 30.00	46.58
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	15150887	2500.00	2290.0	70.00- 130.00	100.00
17.736	17.736 (1.193)	148	12536436			0.00- 30.00	82.74
17.736	17.736 (1.193)	111	8619342			0.00- 30.00	56.89
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.875 (1.203)	91	16907111	2500.00	1813.0	70.00- 130.00	100.00
17.875	17.875 (1.203)	126	4893492			0.00- 30.00	28.94
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	15354272	2500.00	2821.6	70.00- 130.00	100.00
18.096	18.096 (1.218)	148	9589386			34.14- 94.14	62.45
18.096	18.096 (1.218)	111	6522827			14.99- 74.99	42.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.395	19.395 (1.305)	180	8091536	2500.00	2377.6	70.00- 130.00	100.00
19.395	19.395 (1.305)	182	7620125			64.84- 124.84	94.17
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.451	19.451 (1.309)	225	8089771	2500.00	2273.2	70.00- 130.00	100.00
19.451	19.451 (1.309)	223	5139029			33.24- 93.24	63.53
142 Propylbenzene					CAS #: 103-65-1		
16.713	16.713 (1.125)	91	28174758	2500.00	2189.0	70.00- 130.00	100.00
16.713	16.713 (1.125)	120	8296473			0.00- 30.00	29.45
16.713	16.713 (1.125)	105	1387864			0.00- 30.00	4.93
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	21389268	2500.00	1927.7	70.00- 130.00	100.00
16.188	16.188 (1.089)	120	7707490			0.00- 30.00	36.03
16.188	16.188 (1.089)	51	2883795			0.00- 30.00	13.48
17 Isopentane					CAS #: 78-78-4		
3.331	3.331 (0.421)	43	3778137	2500.00	2361.5	70.00- 130.00	100.00
3.331	3.331 (0.421)	57	3201488			0.00- 30.00	84.74
3.331	3.331 (0.421)	72	457620			0.00- 30.00	12.11
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.337)	58	884716	2500.00	2310.0	70.00- 130.00	100.00(M)
2.446	2.446 (0.309)	43	22648			0.00- 30.00	2.56
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.354	10.354 (1.062)	83	9775541	2500.00	2545.4	70.00- 130.00	100.00
10.354	10.354 (1.062)	98	4723801			0.00- 30.00	48.32
10.354	10.354 (1.062)	55	7358721			0.00- 30.00	75.28

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042420.d
Lab Smp Id: 1544-86
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 2500ppbv>2500ppbv

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: Level8
Level: LOW
Sample Type: AIR

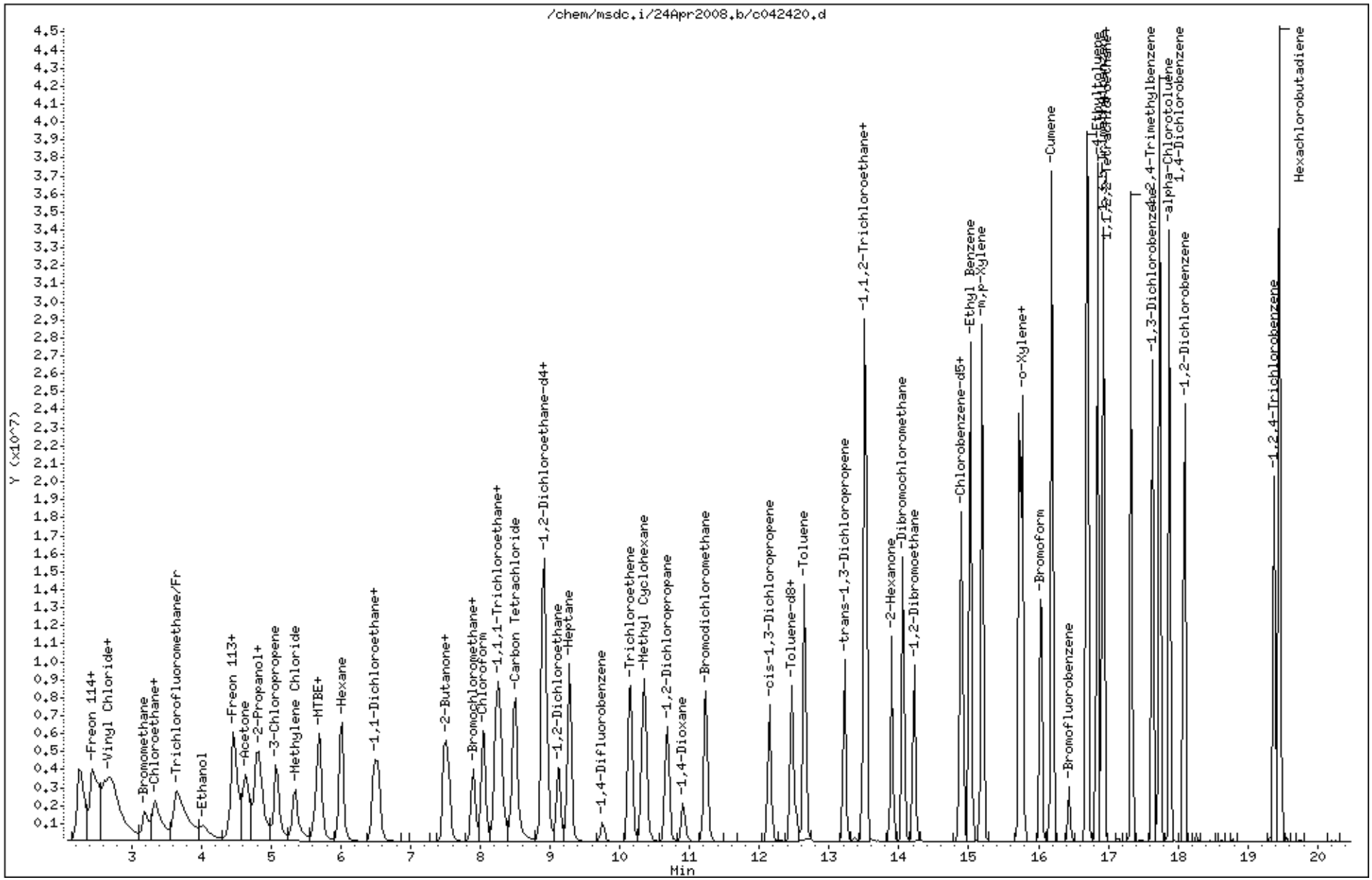
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	412515	-0.51
92 1,4-Difluorobenze	1880051	1128031	2632071	1842696	-1.99
125 Chlorobenzene-d5	1629476	977686	2281266	1609055	-1.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdc.i/24Apr2008.b/c042420.d
Date : 24-APR-2008 18:54
Client ID: Level8
Sample Info: 50mL,33873

Instrument: msdc.i
Operator: ac
Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/24Apr2008.b/c042421.d
Lab Smp Id: 1544-80 Client Smp ID: Level9
Inj Date : 24-APR-2008 19:21
Operator : ac Inst ID: msdc.i
Smp Info : 50mL,34415
Misc Info : 5000ppbv>5000ppbv
Comment :
Method : /chem/msdc.i/24Apr2008.b/t145424.m
Meth Date : 25-Apr-2008 15:52 mwolf Quant Type: ISTD
Cal Date : 24-APR-2008 19:21 Cal File: c042421.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04(High)+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	456219	400.000		70.00- 130.00	100.00
7.921	7.921 (1.000)	128	351151			48.74- 108.74	76.97
7.921	7.921 (1.000)	49	540354			89.05- 149.05	118.44
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1898463	400.000		70.00- 130.00	100.00
9.746	9.746 (1.000)	88	329246			0.00- 47.75	17.34
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1644664	400.000		70.00- 130.00	100.00
14.861	14.861 (1.000)	82	1060160			0.00- 30.00	64.46
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.971	8.971 (1.133)	65	989965	400.000	445.54	70.00- 130.00	100.00
8.971	8.971 (1.133)	67	502521			0.00- 30.00	50.76
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.538	12.538 (1.287)	98	1986003	400.000	419.53	70.00- 130.00	100.00
12.511	12.511 (1.284)	70	247751			0.00- 30.00	12.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.455	12.455 (1.278)	100	5129223			0.00- 30.00	258.27
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1035260	400.000	394.92	70.00- 130.00	100.00
16.437	16.437 (1.106)	95	1493775			118.92- 178.92	144.29
16.437	16.437 (1.106)	176	1000330			66.54- 126.54	96.63
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	5699265	5000.00	4586.2	70.00- 130.00	100.00
2.225	2.225 (0.281)	42	3693548			0.00- 30.00	64.81
2.225	2.225 (0.281)	39	4667770			0.00- 30.00	81.90
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	25368346	5000.00	4588.8	70.00- 130.00	100.00
2.280	2.280 (0.288)	87	7965427			0.00- 30.00	31.40
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	18299101	5000.00	4449.2	70.00- 130.00	100.00
2.446	2.446 (0.309)	137	5870734			1.97- 61.97	32.08
10 Chloromethane					CAS #: 74-87-3		
2.529	2.529 (0.319)	50	8188497	5000.00	3968.4	70.00- 130.00	100.00
2.529	2.529 (0.319)	52	2190702			0.00- 30.00	26.75
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	9001523	5000.00	4486.2	70.00- 130.00	100.00
2.695	2.695 (0.340)	64	2867923			0.00- 30.00	31.86
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.347)	54	6164712	5000.00	5488.2	70.00- 130.00	100.00(TAM)
0.000	1.000 (0.000)	39	0			0.00- 30.00	0.00
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	7797512	5000.00	5960.0	70.00- 130.00	100.00(A)
3.193	3.193 (0.403)	96	7288228			61.22- 121.22	93.47
19 Chloroethane					CAS #: 75-00-3		
3.359	3.359 (0.424)	64	4200047	5000.00	4755.1	70.00- 130.00	100.00
3.359	3.359 (0.424)	49	1134040			0.00- 30.00	27.00
3.359	3.359 (0.424)	66	1347049			0.00- 30.00	32.07
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.663	3.663 (0.462)	101	31837834	5000.00	4714.9	70.00- 130.00	100.00
3.663	3.663 (0.462)	103	20482711			33.86- 93.86	64.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.050	4.050 (0.511)	45	3212713	5000.00	4671.9	70.00- 130.00	100.00
4.050	4.050 (0.511)	43	1275651			0.00- 30.00	39.71
4.050	4.050 (0.511)	46	1303918			0.00- 30.00	40.59
30 Freon 113					CAS #: 76-13-1		
4.465	4.465 (0.564)	151	14639228	5000.00	4867.8	70.00- 130.00	100.00
4.465	4.465 (0.564)	153	9282493			32.96- 92.96	63.41
4.465	4.465 (0.564)	101	14817152			75.50- 135.50	101.22
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.465	4.465 (0.564)	61	19513721	5000.00	4609.2	70.00- 130.00	100.00
4.465	4.465 (0.564)	96	10955787			25.95- 85.95	56.14
4.465	4.465 (0.564)	98	6975024			5.66- 65.66	35.74
32 Acetone					CAS #: 67-64-1		
4.658	4.658 (0.588)	58	4351641	5000.00	4363.4	70.00- 130.00	100.00
4.631	4.631 (0.585)	43	13606490			0.00- 30.00	312.67
36 2-Propanol					CAS #: 67-63-0		
4.852	4.852 (0.613)	45	15412396	5000.00	4670.5	70.00- 130.00	100.00
4.852	4.852 (0.613)	43	5801254			0.00- 30.00	37.64
4.852	4.852 (0.613)	59	844061			0.00- 30.00	5.48
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	25400429	5000.00	4542.3	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	7852715	5000.00	6215.7	70.00- 130.00	100.00(A)
5.073	5.073 (0.640)	41	11490466			0.00- 30.00	146.32
43 Methylene Chloride					CAS #: 75-09-2		
5.349	5.349 (0.675)	49	9961321	5000.00	4227.1	70.00- 130.00	100.00
5.349	5.349 (0.675)	84	8710058			55.75- 115.75	87.44
5.349	5.349 (0.675)	51	3157192			0.00- 30.00	31.69
46 MTBE					CAS #: 1634-04-4		
5.654	5.654 (0.714)	73	7282294	5000.00	2699.2	70.00- 130.00	100.00
5.654	5.654 (0.714)	57	1427365			0.00- 48.79	19.60
5.626	5.626 (0.710)	41	1365607			0.00- 30.00	18.75
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.709	5.709 (0.721)	96	10994053	5000.00	4706.3	70.00- 130.00	100.00
5.709	5.709 (0.721)	61	16558797			119.68- 179.68	150.62
5.709	5.709 (0.721)	98	6930379			0.00- 30.00	63.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.013	6.013 (0.759)	57	15910214	5000.00	4492.8	70.00- 130.00	100.00
6.013	6.013 (0.759)	43	9405324			0.00- 30.00	59.12
6.013	6.013 (0.759)	86	3137227			0.00- 30.00	19.72
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.483	6.483 (0.818)	63	19599152	5000.00	4777.9	70.00- 130.00	100.00
6.483	6.483 (0.818)	65	6126011			1.47- 61.47	31.26
67 2-Butanone					CAS #: 78-93-3		
7.534	7.534 (0.951)	72	5430481	5000.00	4901.4	70.00- 130.00	100.00
7.534	7.534 (0.951)	43	19329531			333.51- 393.51	355.95
7.534	7.534 (0.951)	57	1689056			0.00- 30.00	31.10
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.478	7.478 (0.944)	61	15049873	5000.00	4717.2	70.00- 130.00	100.00
7.478	7.478 (0.944)	96	10878104			42.16- 102.16	72.28
7.478	7.478 (0.944)	98	6858451			15.86- 75.86	45.57
70 Tetrahydrofuran					CAS #: 109-99-9		
7.893	7.893 (0.996)	42	10250699	5000.00	4819.0	70.00- 130.00	100.00
7.893	7.893 (0.996)	71	4744889			17.18- 77.18	46.29
7.893	7.893 (0.996)	72	5174705			0.00- 30.00	50.48
72 Chloroform					CAS #: 67-66-3		
8.059	8.059 (1.017)	83	25506782	5000.00	4813.6	70.00- 130.00	100.00
8.059	8.059 (1.017)	85	16135996			33.60- 93.60	63.26
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.280	8.280 (1.045)	97	24249166	5000.00	4576.9	70.00- 130.00	100.00
8.280	8.280 (1.045)	99	15310159			32.77- 92.77	63.14
74 Cyclohexane					CAS #: 110-82-7		
8.225	8.225 (1.038)	84	11344985	5000.00	3789.9	70.00- 130.00	100.00
8.225	8.225 (1.038)	56	14105000			74.35- 134.35	124.33
8.225	8.225 (1.038)	41	7638022			29.63- 89.63	67.33
56 Vinyl Acetate					CAS #: 108-05-4		
6.538	6.538 (0.825)	86	2976320	5000.00	4758.7	70.00- 130.00	100.00
6.538	6.538 (0.825)	43	26277373			0.00- 30.00	882.88
6.538	6.538 (0.825)	42	2479677			0.00- 30.00	83.31
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.501	8.501 (1.073)	119	28046864	5000.00	4743.7	70.00- 130.00	100.00
8.501	8.501 (1.073)	117	29426626			74.30- 134.30	104.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.889	8.889 (1.122)	57	46580917	5000.00	4656.8	70.00- 130.00	100.00
8.889	8.889 (1.122)	56	14506238			0.00- 30.00	31.14
8.889	8.889 (1.122)	41	14207950			0.00- 30.00	30.50
81 Benzene					CAS #: 71-43-2		
8.916	8.916 (0.915)	78	31445480	5000.00	5042.4	70.00- 130.00	100.00(A)
8.916	8.916 (0.915)	77	7463887			0.00- 30.00	23.74
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.137	9.137 (0.938)	62	18413197	5000.00	4970.5	70.00- 130.00	100.00
9.137	9.137 (0.938)	64	5838150			0.00- 30.00	31.71
90 Heptane					CAS #: 142-82-5		
9.276	9.276 (0.952)	100	3753145	5000.00	4452.1	70.00- 130.00	100.00
9.276	9.276 (0.952)	43	16275309			0.00- 30.00	433.64
9.276	9.276 (0.952)	71	11139839			0.00- 30.00	296.81
93 Trichloroethene					CAS #: 79-01-6		
10.160	10.160 (1.043)	95	15244080	5000.00	5043.2	70.00- 130.00	100.00(A)
10.160	10.160 (1.043)	130	14539745			65.39- 125.39	95.38
10.160	10.160 (1.043)	97	9664578			34.09- 94.09	63.40
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.686	10.686 (1.096)	63	10108751	5000.00	5055.1	70.00- 130.00	100.00(A)
10.686	10.686 (1.096)	62	6973974			40.41- 100.41	68.99
10.686	10.686 (1.096)	41	7131798			42.79- 102.79	70.55
99 1,4-Dioxane					CAS #: 123-91-1		
10.907	10.907 (1.119)	88	7387814	5000.00	5217.6	70.00- 130.00	100.00(A)
10.907	10.907 (1.119)	58	4751350			35.04- 95.04	64.31
10.907	10.907 (1.119)	57	1614975			0.00- 30.00	21.86
100 Bromodichloromethane					CAS #: 75-27-4		
11.239	11.239 (1.153)	83	27807584	5000.00	5359.6	70.00- 130.00	100.00(A)
11.239	11.239 (1.153)	85	17427864			34.08- 94.08	62.67
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.151	12.151 (1.247)	75	19253869	5000.00	5455.6	70.00- 130.00	100.00(A)
12.151	12.151 (1.247)	77	5950067			0.86- 60.86	30.90
12.151	12.151 (1.247)	39	10164763			24.35- 84.35	52.79
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	4881444	5000.00	5269.3	70.00- 130.00	100.00(A)
12.455	12.455 (1.278)	43	22139941			0.00- 30.00	453.55
12.455	12.455 (1.278)	58	8718147			0.00- 30.00	178.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	34113308	5000.00	4442.5	70.00- 130.00	100.00
12.649	12.649 (1.298)	92	23511002			28.07- 88.07	68.92
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.229	13.229 (0.890)	75	22568516	5000.00	5548.4	70.00- 130.00	100.00(A)
13.229	13.229 (0.890)	77	6899500			0.00- 60.00	30.57
13.229	13.229 (0.890)	39	10243677			16.18- 76.18	45.39
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	13723274	5000.00	5302.0	70.00- 130.00	100.00(A)
13.506	13.506 (0.909)	99	8340041			31.16- 91.16	60.77
13.506	13.506 (0.909)	83	11195260			50.03- 110.03	81.58
116 Tetrachloroethene					CAS #: 127-18-4		
13.534	13.534 (0.911)	166	19515447	5000.00	5318.2	70.00- 130.00	100.00(A)
13.534	13.534 (0.911)	129	15970705			52.73- 112.73	81.84
13.534	13.534 (0.911)	131	15167658			48.38- 108.38	77.72
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	11742421	5000.00	5178.7	70.00- 130.00	100.00(A)
13.893	13.893 (0.935)	43	22085853			156.81- 216.81	188.09
13.893	13.893 (0.935)	100	2939762			0.00- 30.00	25.04
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	24030167	5000.00	4918.7	70.00- 130.00	100.00
14.059	14.059 (0.946)	127	21597691			0.00- 30.00	89.88
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	21250578	5000.00	5219.4	70.00- 130.00	100.00(A)
14.225	14.225 (0.957)	109	19673805			62.95- 122.95	92.58
126 Chlorobenzene					CAS #: 108-90-7		
14.888	14.888 (1.002)	112	29445060	5000.00	4711.9	70.00- 130.00	100.00
14.888	14.888 (1.002)	114	9996407			2.29- 62.29	33.95
14.888	14.888 (1.002)	77	20836432			35.81- 95.81	70.76
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	16824834	5000.00	5188.6	70.00- 130.00	100.00(A)
15.027	15.027 (1.011)	91	29794823			0.00- 30.00	177.09
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.193 (1.022)	106	20079862	5000.00	4910.8	70.00- 130.00	100.00
15.193	15.193 (1.022)	91	27525952			0.00- 30.00	137.08
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	19316165	5000.00	5046.3	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.718	15.718 (1.058)	91	29441090			220.82- 280.82	152.42
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	21446692	5000.00	3666.1	70.00- 130.00	100.00
15.773	15.773 (1.061)	78	20500107			31.74- 91.74	95.59
134 Bromoform					CAS #: 75-25-2		
16.050	16.050 (1.080)	173	25075254	5000.00	5654.1	70.00- 130.00	100.00(A)
16.050	16.050 (1.080)	171	13838662			21.07- 81.07	55.19
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	20529244	5000.00	4004.2	70.00- 130.00	100.00
16.686	16.686 (1.123)	85	18330858			33.63- 93.63	89.29
144 4-Ethyltoluene					CAS #: 622-96-8		
16.852	16.852 (1.134)	105	25010519	5000.00	2221.3	70.00- 130.00	100.00
16.852	16.852 (1.134)	120	16590019			0.00- 57.92	66.33
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.935	16.935 (1.140)	105	27565736	5000.00	2727.4	70.00- 130.00	100.00
16.935	16.935 (1.140)	120	18943123			0.00- 30.00	68.72
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.322 (1.166)	105	28053217	5000.00	2721.4	70.00- 130.00	100.00
17.322	17.322 (1.166)	120	21214779			9.81- 69.81	75.62
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	27910868	5000.00	4500.3	70.00- 130.00	100.00
17.653	17.653 (1.188)	148	19502386			0.00- 30.00	69.87
17.626	17.626 (1.186)	111	14266751			0.00- 30.00	51.12
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	16235932	5000.00	2400.8	70.00- 130.00	100.00
17.736	17.736 (1.193)	148	15419125			0.00- 30.00	94.97
17.736	17.736 (1.193)	111	15002038			0.00- 30.00	92.40
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.875 (1.203)	91	21301669	5000.00	2234.8	70.00- 130.00	100.00
17.875	17.875 (1.203)	126	9744089			0.00- 30.00	45.74
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	18296195	5000.00	3289.4	70.00- 130.00	100.00
18.096	18.096 (1.218)	148	16546079			34.14- 94.14	90.43
18.096	18.096 (1.218)	111	13768303			14.99- 74.99	75.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.395	19.395 (1.305)	180	19042687	5000.00	5474.3	70.00- 130.00	100.00(A)
19.395	19.395 (1.305)	182	17780324			64.84- 124.84	93.37
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.451	19.451 (1.309)	225	16291715	5000.00	4478.9	70.00- 130.00	100.00
19.451	19.451 (1.309)	223	10491307			33.24- 93.24	64.40
142 Propylbenzene					CAS #: 103-65-1		
16.686	16.686 (1.123)	91	29504447	5000.00	2242.7	70.00- 130.00	100.00
16.713	16.713 (1.125)	120	17830676			0.00- 30.00	60.43
16.713	16.713 (1.125)	105	2831438			0.00- 30.00	9.60
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	30565513	5000.00	2695.0	70.00- 130.00	100.00
16.188	16.188 (1.089)	120	15843545			0.00- 30.00	51.83
16.188	16.188 (1.089)	51	5698785			0.00- 30.00	18.64
17 Isopentane					CAS #: 78-78-4		
3.359	3.359 (0.424)	43	7183509	5000.00	4059.9	70.00- 130.00	100.00
3.359	3.359 (0.424)	57	5965151			0.00- 30.00	83.04
3.359	3.359 (0.424)	72	453978			0.00- 30.00	6.32
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.337)	58	1720830	5000.00	4062.6	70.00- 130.00	100.00(M)
2.446	2.446 (0.309)	43	47612			0.00- 30.00	2.77
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.354	10.354 (1.062)	83	20114793	5000.00	5083.8	70.00- 130.00	100.00(A)
10.354	10.354 (1.062)	98	9681833			0.00- 30.00	48.13
10.354	10.354 (1.062)	55	15155449			0.00- 30.00	75.34

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Report Date: 25-Apr-2008 15:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042421.d
Lab Smp Id: 1544-80
Analysis Type: VOA
Quant Type: ISTD
Operator: ac
Method File: /chem/msdc.i/24Apr2008.b/t145424.m
Misc Info: 5000ppbv>5000ppbv

Calibration Date: 24-APR-2008
Calibration Time: 16:55
Client Smp ID: Level9
Level: LOW
Sample Type: AIR

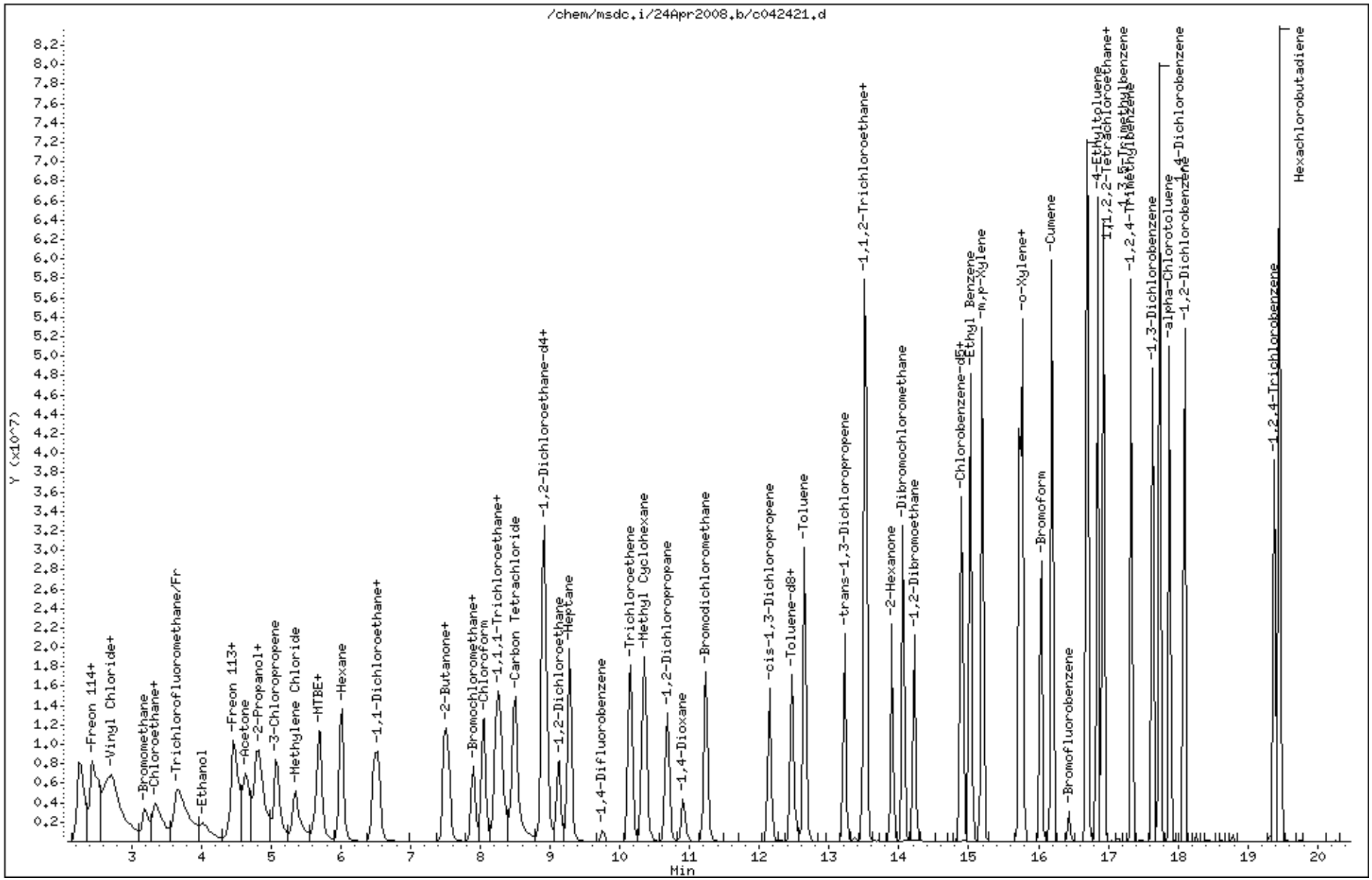
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	414647	248788	580506	456219	10.03
92 1,4-Difluorobenze	1880051	1128031	2632071	1898463	0.98
125 Chlorobenzene-d5	1629476	977686	2281266	1644664	0.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdc.i/24Apr2008.b/c042421.d
Date : 24-APR-2008 19:21
Client ID: Level9
Sample Info: 50mL,34415

Instrument: msdc.i
Operator: ac
Column phase: RTx-624
Column diameter: 0.53



0362

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804495A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/08 01:24 AM**	

Compound	%Recovery
Freon 12	93
Freon 114	93
Chloromethane	93
Vinyl Chloride	96
1,3-Butadiene	107
Bromomethane	108
Chloroethane	106
Freon 11	98
Ethanol	93
Freon 113	98
1,1-Dichloroethene	96
Acetone	95
2-Propanol	98
Carbon Disulfide	99
3-Chloropropene	96
Methylene Chloride	88
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	95
Hexane	99
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	95
Tetrahydrofuran	97
Chloroform	96
1,1,1-Trichloroethane	100
Cyclohexane	100
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	97
Benzene	95
1,2-Dichloroethane	94
Heptane	87
Trichloroethene	92
1,2-Dichloropropane	94
1,4-Dioxane	96
Bromodichloromethane	94
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	95
Toluene	94
trans-1,3-Dichloropropene	94

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804495A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/08 01:24 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	92
Tetrachloroethene	92
2-Hexanone	92
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	93
Chlorobenzene	91
Ethyl Benzene	92
m,p-Xylene	93
o-Xylene	91
Styrene	95
Bromoform	93
Cumene	97
1,1,2,2-Tetrachloroethane	94
Propylbenzene	95
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	95
1,1-Difluoroethane	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdc.i Injection Date: 25-APR-2008 01:24
Lab File ID: c042503.d Init. Cal. Date(s): 16-APR-2008 24-APR-2008
Analysis Type: AIR Init. Cal. Times: 10:58 22:39
Lab Sample ID: 1544-81C Quant Type: ISTD
Method: /chem/msdc.i/25Apr2008.b/t145424.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.94815	1.93417	0.010	0.71746	30.00000	Averaged
$ 107 Toluene-d8	0.99740	0.97810	0.010	1.93521	30.00000	Averaged
$ 138 Bromofluorobenzene	0.63755	0.68356	0.010	-7.21537	30.00000	Averaged
6 Propylene	1.08956	1.07448	0.010	1.38448	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	4.84705	4.51212	0.010	6.90998	30.00000	Averaged
9 Freon 114	3.60603	3.36923	0.010	6.56690	30.00000	Averaged
10 Chloromethane	1.80916	1.67657	0.010	7.32908	30.00000	Averaged
13 Vinyl Chloride	1.75925	1.68283	0.010	4.34384	30.00000	Averaged
12 1,3-Butadiene	1.01230	1.08291	0.010	-6.97439	30.00000	Averaged
15 Bromomethane	1.15702	1.24831	0.010	-7.89019	30.00000	Averaged
19 Chloroethane	0.77443	0.82191	0.010	-6.13106	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	5.92044	5.79748	0.010	2.07695	30.00000	Averaged
26 Ethanol	0.60293	0.56273	0.010	6.66840	30.00000	Averaged
30 Freon 113	2.63679	2.59899	0.010	1.43361	30.00000	Averaged
31 1,1-Dichloroethene	3.71198	3.57406	0.010	3.71554	30.00000	Averaged
32 Acetone	0.87441	0.82722	0.010	5.39586	30.00000	Averaged
36 2-Propanol	2.89327	2.84755	0.010	1.58041	30.00000	Averaged
35 Carbon Disulfide	4.90283	4.84246	0.010	1.23137	30.00000	Averaged
38 3-Chloropropene	1.10769	1.05965	0.010	4.33662	30.00000	Averaged
43 Methylene Chloride	2.06616	1.81142	0.010	12.32911	30.00000	Averaged
37 tert-Butyl-Alcohol	2.38168	2.17378	0.010	8.72902	40.00000	Averaged
46 MTBE	2.36550	2.52297	0.010	-6.65690	30.00000	Averaged
47 trans-1,2-Dichloroethene	2.04816	1.94740	0.010	4.91972	30.00000	Averaged
51 Hexane	3.10488	3.06831	0.010	1.17762	30.00000	Averaged
56 Vinyl Acetate	0.54837	0.52914	0.010	3.50780	30.00000	Averaged
55 1,1-Dichloroethane	3.59653	3.59783	0.010	-0.03631	30.00000	Averaged
67 2-Butanone	0.97142	0.95316	0.010	1.87970	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.79725	2.66092	0.010	4.87362	30.00000	Averaged
70 Tetrahydrofuran	1.86502	1.81333	0.010	2.77125	30.00000	Averaged
72 Chloroform	4.64597	4.44829	0.010	4.25493	30.00000	Averaged
75 1,1,1-Trichloroethane	4.64530	4.63819	0.010	0.15294	30.00000	Averaged
74 Cyclohexane	2.62458	2.61790	0.010	0.25417	30.00000	Averaged
77 Carbon Tetrachloride	5.18384	5.08445	0.010	1.91719	30.00000	Averaged
80 2,2,4-Trimethylpentane	8.77022	8.54859	0.010	2.52709	30.00000	Averaged
81 Benzene	1.31393	1.25343	0.010	4.60524	30.00000	Averaged
85 1,2-Dichloroethane	0.78052	0.73807	0.010	5.43852	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdc.i Injection Date: 25-APR-2008 01:24
Lab File ID: c042503.d Init. Cal. Date(s): 16-APR-2008 24-APR-2008
Analysis Type: AIR Init. Cal. Times: 10:58 22:39
Lab Sample ID: 1544-81C Quant Type: ISTD
Method: /chem/msdc.i/25Apr2008.b/t145424.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.17762	0.15541	0.010	12.50172	30.00000	Averaged
93 Trichloroethene	0.63687	0.58665	0.010	7.88586	30.00000	Averaged
98 1,2-Dichloropropane	0.42133	0.39433	0.010	6.40907	30.00000	Averaged
99 1,4-Dioxane	0.29833	0.28792	0.010	3.49037	30.00000	Averaged
100 Bromodichloromethane	1.09318	1.02702	0.010	6.05252	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.74359	0.69701	0.010	6.26346	30.00000	Averaged
106 4-Methyl-2-pentanone	0.19519	0.18467	0.010	5.38860	30.00000	Averaged
108 Toluene	1.61790	1.52601	0.010	5.67965	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.98928	0.92630	0.010	6.36596	30.00000	Averaged
114 1,1,2-Trichloroethane	0.62951	0.57793	0.010	8.19426	30.00000	Averaged
116 Tetrachloroethene	0.89247	0.81721	0.010	8.43220	30.00000	Averaged
119 2-Hexanone	0.55147	0.50808	0.010	7.86888	30.00000	Averaged
120 Dibromochloromethane	1.18820	1.13870	0.010	4.16600	30.00000	Averaged
122 1,2-Dibromoethane	0.99022	0.91859	0.010	7.23371	30.00000	Averaged
126 Chlorobenzene	1.53236	1.39361	0.010	9.05468	30.00000	Averaged
128 Ethyl Benzene	0.78864	0.72939	0.010	7.51296	30.00000	Averaged
130 m,p-Xylene	0.99447	0.92400	0.010	7.08666	30.00000	Averaged
132 o-Xylene	0.93095	0.84819	0.010	8.88978	30.00000	Averaged
133 Styrene	1.42279	1.35282	0.010	4.91797	30.00000	Averaged
134 Bromoform	1.07861	1.00565	0.010	6.76421	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	1.24694	1.17219	0.010	5.99466	30.00000	Averaged
144 4-Ethyltoluene	2.73844	2.75980	0.010	-0.77989	30.00000	Averaged
147 1,3,5-Trimethylbenzene	2.45813	2.43948	0.010	0.75873	30.00000	Averaged
152 1,2,4-Trimethylbenzene	2.67037	2.61289	0.010	2.15283	30.00000	Averaged
155 1,3-Dichlorobenzene	1.52993	1.44800	0.010	5.35466	30.00000	Averaged
156 1,4-Dichlorobenzene	1.64474	1.56734	0.010	4.70592	30.00000	Averaged
157 alpha-Chlorotoluene	2.31819	2.52507	0.010	-8.92396	30.00000	Averaged
159 1,2-Dichlorobenzene	1.35277	1.19815	0.010	11.42965	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.84603	0.68789	0.010	18.69169	30.00000	Averaged
164 Hexachlorobutadiene	0.88467	0.83696	0.010	5.39292	30.00000	Averaged
142 Propylbenzene	3.45171	3.27056	0.010	5.24802	30.00000	Averaged
136 Cumene	2.94001	2.84157	0.010	3.34815	30.00000	Averaged
165 Naphthalene	1.93333	1.81559	0.010	6.09028	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042503.d
Lab Smp Id: 1544-81C Client Smp ID: CCV
Inj Date : 25-APR-2008 01:24
Operator : JP Inst ID: msdc.i
Smp Info : 50mL,31443
Misc Info : CCV
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 28-Apr-2008 09:44 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	426794	400.000		80.00- 120.00	100.00
7.921	7.921 (1.000)	128	334092			48.28- 108.28	78.28
7.921	7.921 (1.000)	49	511720			89.90- 149.90	119.90
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1936987	400.000		80.00- 120.00	100.00
9.746	9.746 (1.000)	88	348689			0.00- 48.00	18.00
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1655878	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	1055727			0.00- 30.00	63.76
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.972	8.972 (1.133)	65	825493	400.000	397.13	80.00- 120.00	100.00
8.972	8.972 (1.133)	67	399801			0.00- 30.00	48.43
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.511	12.511 (1.284)	98	1894566	400.000	392.26	80.00- 120.00	100.00
12.511	12.511 (1.284)	70	225696			0.00- 30.00	11.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.511	12.511 (1.284)	100	1325235			0.00- 30.00	69.95
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1131885	400.000	428.86	80.00- 120.00	100.00
16.437	16.437 (1.106)	95	1674511			117.94- 177.94	147.94
16.437	16.437 (1.106)	176	1098667			67.07- 127.07	97.07
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	229290	200.000	197.23	80.00- 120.00	100.00
2.225	2.225 (0.281)	42	149245			0.00- 30.00	65.09
2.225	2.225 (0.281)	39	179734			0.00- 30.00	78.39
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	962873	200.000	186.18	80.00- 120.00	100.00
2.280	2.280 (0.288)	87	303663			0.00- 30.00	31.54
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	718983	200.000	186.87	80.00- 120.00	100.00
2.446	2.446 (0.309)	137	231996			2.27- 62.27	32.27
10 Chloromethane					CAS #: 74-87-3		
2.529	2.529 (0.319)	50	357774	200.000	185.34	80.00- 120.00	100.00
2.529	2.529 (0.319)	52	94292			0.00- 30.00	26.36
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	359111	200.000	191.31	80.00- 120.00	100.00
2.695	2.695 (0.340)	64	116113			0.00- 30.00	32.33
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.347)	54	231089	200.000	213.95	80.00- 120.00	100.00
2.723	2.723 (0.344)	39	269117			0.00- 30.00	116.46
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	266386	200.000	215.78	80.00- 120.00	100.00
3.193	3.193 (0.403)	96	250512			64.04- 124.04	94.04
19 Chloroethane					CAS #: 75-00-3		
3.359	3.359 (0.424)	64	175394	200.000	212.26	80.00- 120.00	100.00
3.359	3.359 (0.424)	49	41116			0.00- 30.00	23.44
3.359	3.359 (0.424)	66	56794			0.00- 30.00	32.38
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.635	3.635 (0.459)	101	1237164	200.000	195.85	80.00- 120.00	100.00
3.635	3.635 (0.459)	103	791016			33.94- 93.94	63.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.022	4.022 (0.508)	45	120084	200.000	186.66	80.00- 120.00	100.00
4.022	4.022 (0.508)	43	41287			0.00- 30.00	34.38
4.022	4.022 (0.508)	46	48693			0.00- 30.00	40.55
30 Freon 113					CAS #: 76-13-1		
4.437	4.437 (0.560)	151	554616	200.000	197.13	80.00- 120.00	100.00
4.437	4.437 (0.560)	153	354309			33.88- 93.88	63.88
4.437	4.437 (0.560)	101	562784			71.47- 131.47	101.47
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.465	4.465 (0.564)	61	762693	200.000	192.57	80.00- 120.00	100.00
4.465	4.465 (0.564)	96	439152			27.58- 87.58	57.58
4.465	4.465 (0.564)	98	285178			7.39- 67.39	37.39
32 Acetone					CAS #: 67-64-1		
4.631	4.631 (0.585)	58	176527	200.000	189.21	80.00- 120.00	100.00
4.631	4.631 (0.585)	43	586847			0.00- 30.00	332.44
36 2-Propanol					CAS #: 67-63-0		
4.852	4.852 (0.613)	45	607658	200.000	196.84	80.00- 120.00	100.00
4.824	4.824 (0.609)	43	164607			0.00- 30.00	27.09
4.852	4.852 (0.613)	59	29101			0.00- 30.00	4.79
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	1033367	200.000	197.54	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	226127	200.000	191.33	80.00- 120.00	100.00
5.073	5.073 (0.640)	41	432237			0.00- 30.00	191.15
43 Methylene Chloride					CAS #: 75-09-2		
5.322	5.322 (0.672)	49	386551	200.000	175.34	80.00- 120.00	100.00
5.349	5.349 (0.675)	84	336914			57.16- 117.16	87.16
5.349	5.349 (0.675)	51	123706			0.00- 30.00	32.00
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.488	5.488 (0.693)	59	463879	200.000	182.54	80.00- 120.00	100.00
5.488	5.488 (0.693)	41	93751			0.00- 30.00	20.21
5.488	5.488 (0.693)	57	51000			0.00- 30.00	10.99
46 MTBE					CAS #: 1634-04-4		
5.654	5.654 (0.714)	73	538394	200.000	213.31	80.00- 120.00	100.00
5.626	5.626 (0.710)	57	108956			0.00- 50.24	20.24
5.626	5.626 (0.710)	41	99332			0.00- 30.00	18.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.681	5.681 (0.717)	96	415569	200.000	190.16	80.00- 120.00	100.00
5.681	5.681 (0.717)	61	624923			120.38- 180.38	150.38
5.681	5.681 (0.717)	98	268217			0.00- 30.00	64.54
51 Hexane					CAS #: 110-54-3		
5.985	5.985 (0.756)	57	654769	200.000	197.64	80.00- 120.00	100.00
5.985	5.985 (0.756)	43	376305			0.00- 30.00	57.47
6.013	6.013 (0.759)	86	127197			0.00- 30.00	19.43
56 Vinyl Acetate					CAS #: 108-05-4		
6.538	6.538 (0.825)	86	112916	200.000	192.98	80.00- 120.00	100.00
6.538	6.538 (0.825)	43	961567			0.00- 30.00	851.58
6.538	6.538 (0.825)	42	93015			0.00- 30.00	82.38
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.455	6.455 (0.815)	63	767767	200.000	200.07	80.00- 120.00	100.00
6.455	6.455 (0.815)	65	242489			1.58- 61.58	31.58
67 2-Butanone					CAS #: 78-93-3		
7.534	7.534 (0.951)	72	203401	200.000	196.24	80.00- 120.00	100.00
7.534	7.534 (0.951)	43	720646			324.30- 384.30	354.30
7.534	7.534 (0.951)	57	62710			0.00- 30.00	30.83
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.478	7.478 (0.944)	61	567832	200.000	190.25	80.00- 120.00	100.00
7.478	7.478 (0.944)	96	415910			43.25- 103.25	73.25
7.478	7.478 (0.944)	98	264675			16.61- 76.61	46.61
70 Tetrahydrofuran					CAS #: 109-99-9		
7.893	7.893 (0.996)	42	386960	200.000	194.46	80.00- 120.00	100.00
7.893	7.893 (0.996)	71	174506			15.10- 75.10	45.10
7.893	7.893 (0.996)	72	193057			0.00- 30.00	49.89
72 Chloroform					CAS #: 67-66-3		
8.031	8.031 (1.014)	83	949251	200.000	191.49	80.00- 120.00	100.00
8.031	8.031 (1.014)	85	619576			35.27- 95.27	65.27
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.280	8.280 (1.045)	97	989776	200.000	199.69	80.00- 120.00	100.00
8.280	8.280 (1.045)	99	625810			33.23- 93.23	63.23
74 Cyclohexane					CAS #: 110-82-7		
8.225	8.225 (1.038)	84	558653	200.000	199.49	80.00- 120.00	100.00
8.225	8.225 (1.038)	56	597871			77.02- 137.02	107.02
8.225	8.225 (1.038)	41	328318			28.77- 88.77	58.77

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.474	8.474 (1.070)	119	1085007	200.000	196.16	80.00- 120.00	100.00
8.474	8.474 (1.070)	117	1146149			75.64- 135.64	105.64
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.889	8.889 (1.122)	57	1824244	200.000	194.94	80.00- 120.00	100.00
8.889	8.889 (1.122)	56	542921			0.00- 30.00	29.76
8.889	8.889 (1.122)	41	542114			0.00- 30.00	29.72
81 Benzene					CAS #: 71-43-2		
8.916	8.916 (0.915)	78	1213934	200.000	190.79	80.00- 120.00	100.00
8.916	8.916 (0.915)	77	296596			0.00- 30.00	24.43
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.110	9.110 (0.935)	62	714819	200.000	189.12	80.00- 120.00	100.00
9.110	9.110 (0.935)	64	226754			0.00- 30.00	31.72
90 Heptane					CAS #: 142-82-5		
9.276	9.276 (0.952)	100	150517	200.000	175.00	80.00- 120.00	100.00
9.276	9.276 (0.952)	43	656521			0.00- 30.00	436.18
9.276	9.276 (0.952)	71	445405			0.00- 30.00	295.92
93 Trichloroethene					CAS #: 79-01-6		
10.133	10.133 (1.040)	95	568162	200.000	184.23	80.00- 120.00	100.00
10.133	10.133 (1.040)	130	540648			65.16- 125.16	95.16
10.133	10.133 (1.040)	97	364984			34.24- 94.24	64.24
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.658	10.658 (1.094)	63	381903	200.000	187.18	80.00- 120.00	100.00
10.658	10.658 (1.094)	62	266866			39.88- 99.88	69.88
10.658	10.658 (1.094)	41	275632			42.17- 102.17	72.17
99 1,4-Dioxane					CAS #: 123-91-1		
10.907	10.907 (1.119)	88	278848	200.000	193.02	80.00- 120.00	100.00
10.907	10.907 (1.119)	58	176879			33.43- 93.43	63.43
10.907	10.907 (1.119)	57	60001			0.00- 30.00	21.52
100 Bromodichloromethane					CAS #: 75-27-4		
11.211	11.211 (1.150)	83	994658	200.000	187.89	80.00- 120.00	100.00
11.211	11.211 (1.150)	85	631991			33.54- 93.54	63.54
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.151	12.151 (1.247)	75	675052	200.000	187.47	80.00- 120.00	100.00
12.151	12.151 (1.247)	77	212612			1.50- 61.50	31.50
12.124	12.124 (1.244)	39	368385			24.57- 84.57	54.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	178851	200.000	189.22	80.00- 120.00	100.00
12.455	12.455 (1.278)	43	797786			0.00- 30.00	446.06
12.455	12.455 (1.278)	58	338118			0.00- 30.00	189.05
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	1477933	200.000	188.64	80.00- 120.00	100.00
12.649	12.649 (1.298)	92	852974			27.71- 87.71	57.71
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.230	13.230 (0.890)	75	766921	200.000	187.27	80.00- 120.00	100.00
13.230	13.230 (0.890)	77	242010			1.56- 61.56	31.56
13.202	13.202 (0.888)	39	363900			17.45- 77.45	47.45
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	478487	200.000	183.61	80.00- 120.00	100.00
13.506	13.506 (0.909)	99	296844			32.04- 92.04	62.04
13.506	13.506 (0.909)	83	385870			50.64- 110.64	80.64
116 Tetrachloroethene					CAS #: 127-18-4		
13.506	13.506 (0.909)	166	676603	200.000	183.14	80.00- 120.00	100.00
13.506	13.506 (0.909)	129	565659			53.60- 113.60	83.60
13.506	13.506 (0.909)	131	537297			49.41- 109.41	79.41
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	420656	200.000	184.26	80.00- 120.00	100.00
13.893	13.893 (0.935)	43	791376			158.13- 218.13	188.13
13.893	13.893 (0.935)	100	110811			0.00- 30.00	26.34
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	942771	200.000	191.67	80.00- 120.00	100.00
14.059	14.059 (0.946)	127	731596			0.00- 30.00	77.60
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	760533	200.000	185.53	80.00- 120.00	100.00
14.225	14.225 (0.957)	109	710284			63.39- 123.39	93.39
126 Chlorobenzene					CAS #: 108-90-7		
14.889	14.889 (1.002)	112	1153824	200.000	181.89	80.00- 120.00	100.00
14.889	14.889 (1.002)	114	373157			2.34- 62.34	32.34
14.889	14.889 (1.002)	77	767344			36.50- 96.50	66.50
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	603890	200.000	184.97	80.00- 120.00	100.00
15.027	15.027 (1.011)	91	2078945			0.00- 30.00	344.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.193 (1.022)	106	765013	200.000	185.83	80.00- 120.00	100.00
15.193	15.193 (1.022)	91	1734004			0.00- 30.00	226.66
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	702251	200.000	182.22	80.00- 120.00	100.00
15.718	15.718 (1.058)	91	1748001			218.91- 278.91	248.91
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	1120049	200.000	190.16	80.00- 120.00	100.00
15.773	15.773 (1.061)	78	700664			32.56- 92.56	62.56
134 Bromoform					CAS #: 75-25-2		
16.022	16.022 (1.078)	173	832620	200.000	186.47	80.00- 120.00	100.00
16.022	16.022 (1.078)	171	437982			22.60- 82.60	52.60
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	970500	200.000	188.01	80.00- 120.00	100.00
16.686	16.686 (1.123)	85	627964			34.71- 94.71	64.71
144 4-Ethyltoluene					CAS #: 622-96-8		
16.852	16.852 (1.134)	105	2284942	200.000	201.56	80.00- 120.00	100.00
16.852	16.852 (1.134)	120	639770			0.00- 58.00	28.00
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.935	16.935 (1.140)	105	2019744	200.000	198.48	80.00- 120.00	100.00
16.935	16.935 (1.140)	120	883029			0.00- 30.00	43.72
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.322 (1.166)	105	2163310	200.000	195.69	80.00- 120.00	100.00
17.322	17.322 (1.166)	120	864204			9.95- 69.95	39.95
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	1198858	200.000	189.29	80.00- 120.00	100.00
17.626	17.626 (1.186)	148	743119			0.00- 30.00	61.99
17.626	17.626 (1.186)	111	572446			0.00- 30.00	47.75
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	1297662	200.000	190.59	80.00- 120.00	100.00
17.736	17.736 (1.193)	148	829192			0.00- 30.00	63.90
17.736	17.736 (1.193)	111	531054			0.00- 30.00	40.92
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.875 (1.203)	91	2090603	200.000	217.85	80.00- 120.00	100.00
17.875	17.875 (1.203)	126	371760			0.00- 30.00	17.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	991997	200.000	177.14	80.00- 120.00	100.00
18.096	18.096 (1.218)	148	631093			33.62- 93.62	63.62
18.068	18.068 (1.216)	111	464798			16.85- 76.85	46.85
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.368	19.368 (1.303)	180	569531	200.000	162.62	80.00- 120.00	100.00
19.368	19.368 (1.303)	182	551741			66.88- 126.88	96.88
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.451	19.451 (1.309)	225	692951	200.000	189.21	80.00- 120.00	100.00
19.451	19.451 (1.309)	223	439605			33.44- 93.44	63.44
142 Propylbenzene					CAS #: 103-65-1		
16.686	16.686 (1.123)	91	2707826	200.000	189.50	80.00- 120.00	100.00
16.713	16.713 (1.125)	120	588843			0.00- 30.00	21.75
16.713	16.713 (1.125)	105	99672			0.00- 30.00	3.68
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	2352646	200.000	193.30	80.00- 120.00	100.00
16.188	16.188 (1.089)	120	572411			0.00- 30.00	24.33
16.188	16.188 (1.089)	51	204269			0.00- 30.00	8.68
165 Naphthalene					CAS #: 91-20-3		
19.561	19.561 (1.316)	128	1503195	200.000	187.82	80.00- 120.00	100.00
19.561	19.561 (1.316)	127	197366			0.00- 30.00	13.13

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042503.d
Lab Smp Id: 1544-81C
Analysis Type: VOA
Quant Type: ISTD
Operator: JP
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: CCV

Calibration Date: 25-APR-2008
Calibration Time: 01:52
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	415199	249119	581279	426794	2.79
92 1,4-Difluorobenze	1896553	1137932	2655174	1936987	2.13
125 Chlorobenzene-d5	1570202	942121	2198283	1655878	5.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdc.i/25Apr2008.b/c042503.d

Date : 25-APR-2008 01:24

Client ID: CCV

Sample Info: 50mL,31443

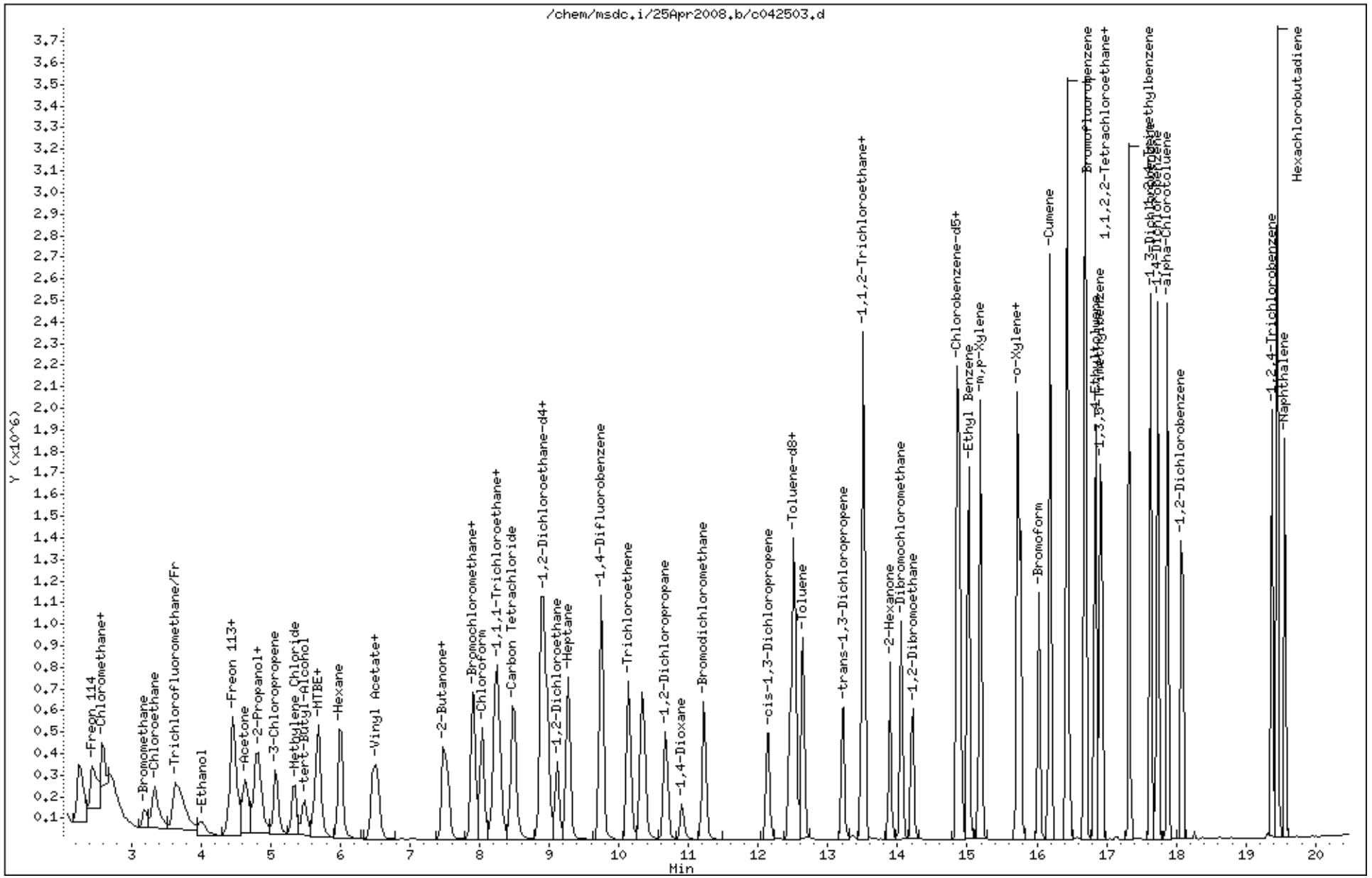
Column phase: RTx-624

Instrument: msdc.i

Operator: JP

Column diameter: 0.53

0376



Report Date: 28-Apr-2008 09:44

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdc.i Injection Date: 25-APR-2008 01:52
Lab File ID: c042504.d Init. Cal. Date(s): 16-APR-2008 24-APR-2008
Analysis Type: AIR Init. Cal. Times: 10:58 22:39
Lab Sample ID: 1576-342 Quant Type: ISTD
Method: /chem/msdc.i/25Apr2008.b/t145424.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF200	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
3 Freon 152a	1.09739	0.94853	0.010	13.56432	40.00000	Averaged
4 Freon 22	0.45617	0.49028	0.010	-7.47746	40.00000	Averaged
16 Dichlorofluoromethane/Fr21	2.83073	3.10163	0.010	-9.57005	40.00000	Averaged
49 Isopropyl ether	5.25173	5.45539	0.010	-3.87785	40.00000	Averaged
57 Ethyl-tert-butyl Ether	4.49772	5.26038	0.010	-16.95664	40.00000	Averaged
61 Ethyl Acetate	0.43534	0.48308	0.010	-10.96627	40.00000	Averaged
64 1-Propanol	0.25323	0.28272	0.010	-11.64793	40.00000	Averaged
76 Isobutanol	0.28406	0.28016	0.010	1.37301	40.00000	Averaged
78 tert-amyl-Methyl Ether	4.92845	5.86976	0.010	-19.09949	40.00000	Averaged
91 1-Butanol	0.23283	0.25757	0.010	-10.62292	40.00000	Averaged
118 Butyl Acetate	0.41727	0.40557	0.010	2.80294	40.00000	Averaged
131 2-Heptanone	0.67855	0.79004	0.010	-16.42999	40.00000	Averaged
135 Cyclohexanone	0.58353	0.63246	0.010	-8.38427	40.00000	Averaged
146 Diisobutyl Ketone	1.50863	1.77060	0.010	-17.36462	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042504.d
Lab Smp Id: 1576-342 Client Smp ID: CCV
Inj Date : 25-APR-2008 01:52
Operator : JP Inst ID: msdc.i
Smp Info : 50mL,3761
Misc Info : CCV
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 28-Apr-2008 09:44 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Spfrnosur-134a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	415199	400.000		80.00- 120.00	100.00
7.921	7.921 (1.000)	128	328815			49.19- 109.19	79.19
7.921	7.921 (1.000)	49	488598			87.68- 147.68	117.68
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1896553	400.000		80.00- 120.00	100.00
9.746	9.746 (1.000)	88	339024			0.00- 47.88	17.88
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1570202	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	987372			0.00- 30.00	62.88
3 Freon 152a					CAS #: 75-37-6		
2.225	2.225 (0.281)	65	196915	200.000	172.87	80.00- 120.00	100.00
2.280	2.280 (0.288)	51	867707			417.33- 477.33	440.65
4 Freon 22					CAS #: 75-45-6		
2.308	2.308 (0.291)	67	101782	200.000	214.95	80.00- 120.00	100.00
2.280	2.280 (0.288)	51	868255			933.74- 993.74	853.05

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.663	3.663 (0.462)	67	643897	200.000	219.14	80.00- 120.00	100.00
3.663	3.663 (0.462)	69	210270			2.52- 62.52	32.66
3.663	3.663 (0.462)	35	12082			0.00- 31.98	1.88
49 Isopropyl ether					CAS #: 108-20-3		
6.428	6.428 (0.812)	45	1132536	200.000	207.76	80.00- 120.00	100.00
6.455	6.455 (0.815)	87	365482			0.91- 60.91	32.27
6.428	6.428 (0.812)	59	131473			0.00- 41.51	11.61
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.064	7.064 (0.892)	59	1092053	200.000	233.91	80.00- 120.00	100.00
7.064	7.064 (0.892)	87	497007			13.08- 73.08	45.51
7.064	7.064 (0.892)	41	187323			0.00- 47.19	17.15
61 Ethyl Acetate					CAS #: 141-78-6		
7.561	7.561 (0.955)	70	100288	200.000	221.93	80.00- 120.00	100.00
7.561	7.561 (0.955)	43	803535			762.38- 822.38	801.23
7.561	7.561 (0.955)	61	105240			82.71- 142.71	104.94
64 1-Propanol					CAS #: 71-23-8		
6.704	6.704 (0.846)	42	58693	200.000	223.30	80.00- 120.00	100.00
6.704	6.704 (0.846)	59	66284			89.00- 149.00	112.93
6.704	6.704 (0.846)	41	46230			41.05- 101.05	78.77
76 Isobutanol					CAS #: 78-83-1		
8.944	8.944 (0.918)	43	265667	200.000	197.25	80.00- 120.00	100.00
8.944	8.944 (0.918)	41	214757			43.46- 103.46	80.84
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.110	9.110 (1.150)	73	1218559	200.000	238.20	80.00- 120.00	100.00
9.110	9.110 (1.150)	87	329309			0.00- 56.17	27.02
9.082	9.082 (1.147)	55	292143			0.00- 55.56	23.97
91 1-Butanol					CAS #: 71-36-3		
10.216	10.216 (1.048)	56	244243	200.000	221.24	80.00- 120.00	100.00
10.188	10.188 (1.045)	41	185905			36.98- 96.98	76.11
10.216	10.216 (1.048)	43	127253			22.47- 82.47	52.10
118 Butyl Acetate					CAS #: 123-86-4		
14.059	14.059 (1.443)	56	384596	200.000	194.39	80.00- 120.00	100.00
14.059	14.059 (1.443)	73	185937			15.89- 75.89	48.35
14.059	14.059 (1.443)	43	915094			195.59- 255.59	237.94
131 2-Heptanone					CAS #: 110-43-0		
15.967	15.967 (1.074)	58	620261	200.000	232.86	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 2-Heptanone (continued)							
15.967	15.967 (1.074)	43	1006589			123.08- 183.08	162.28
135 Cyclohexanone					CAS #: 108-94-1		
16.382	16.382 (1.102)	55	496543	200.000	216.77	80.00- 120.00	100.00
16.409	16.409 (1.104)	98	252816			20.69- 80.69	50.92
16.382	16.382 (1.102)	42	364837			38.01- 98.01	73.48
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.100	17.100 (1.151)	57	1390100	200.000	234.73	80.00- 120.00	100.00
17.100	17.100 (1.151)	85	1238532			59.10- 119.10	89.10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042504.d
Lab Smp Id: 1576-342
Analysis Type: VOA
Quant Type: ISTD
Operator: JP
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: CCV

Calibration Date: 25-APR-2008
Calibration Time: 01:52
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	415199	249119	581279	415199	0.00
92 1,4-Difluorobenze	1896553	1137932	2655174	1896553	0.00
125 Chlorobenzene-d5	1570202	942121	2198283	1570202	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

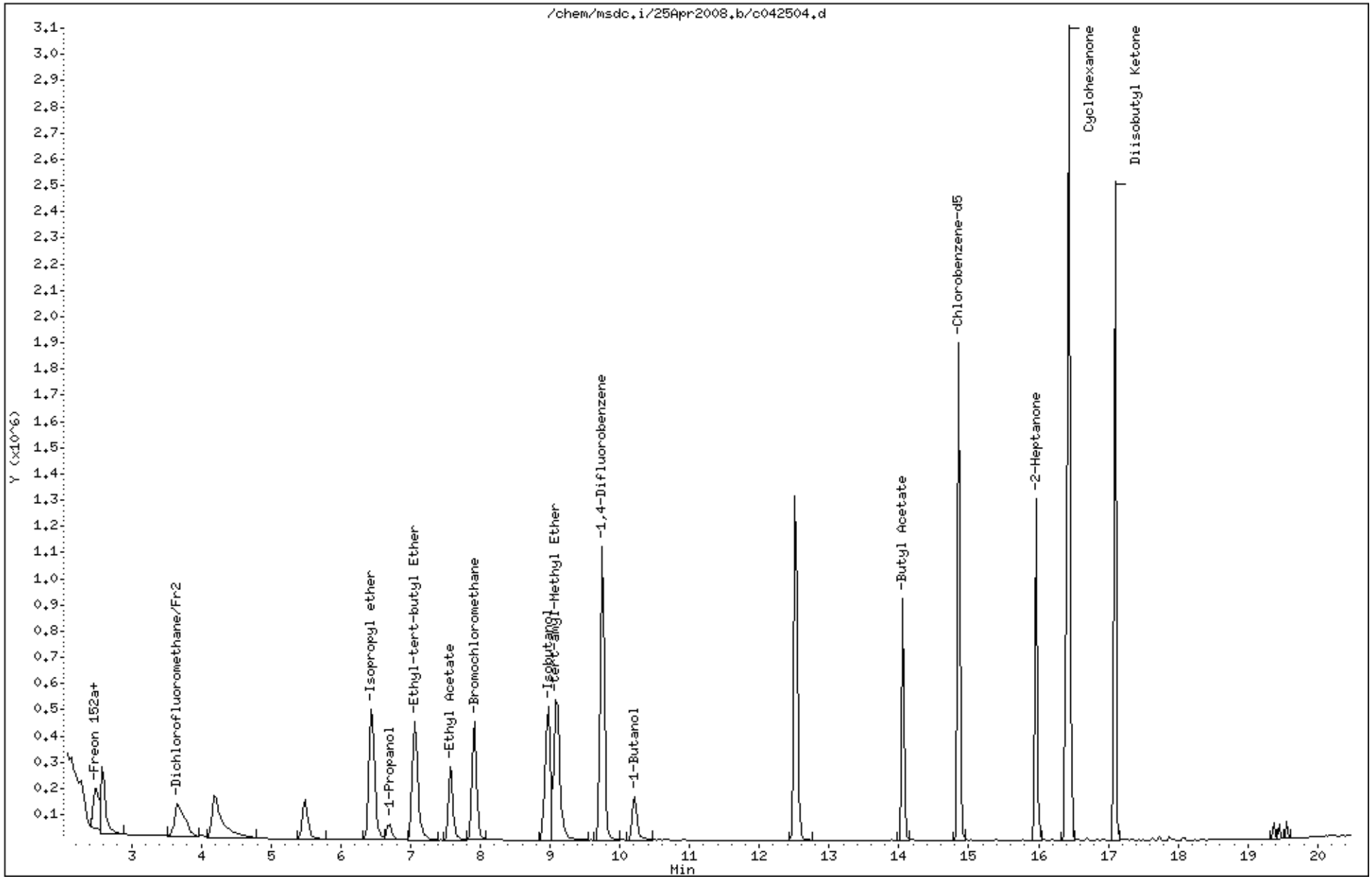
0382

Data File: /chem/msdc.i/25Apr2008.b/c042504.d
Date : 25-APR-2008 01:52
Client ID: CCV
Sample Info: 50mL,3761

Instrument: msdc.i

Operator: JP
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804495A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/08 02:58 AM**	

Compound	%Recovery
Freon 12	85
Freon 114	86
Chloromethane	85
Vinyl Chloride	91
1,3-Butadiene	86
Bromomethane	103
Chloroethane	98
Freon 11	88
Ethanol	89
Freon 113	93
1,1-Dichloroethene	86
Acetone	85
2-Propanol	94
Carbon Disulfide	94
3-Chloropropene	83
Methylene Chloride	82
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	89
Hexane	87
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	87
Tetrahydrofuran	90
Chloroform	88
1,1,1-Trichloroethane	95
Cyclohexane	94
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	90
Benzene	89
1,2-Dichloroethane	90
Heptane	79
Trichloroethene	87
1,2-Dichloropropane	90
1,4-Dioxane	90
Bromodichloromethane	89
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	86
Toluene	89
trans-1,3-Dichloropropene	90

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804495A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c042506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/08 02:58 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	86
Tetrachloroethene	86
2-Hexanone	88
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	86
Chlorobenzene	87
Ethyl Benzene	86
m,p-Xylene	86
o-Xylene	87
Styrene	92
Bromoform	90
Cumene	94
1,1,2,2-Tetrachloroethane	92
Propylbenzene	90
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	87
1,1-Difluoroethane	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

Report Date: 28-Apr-2008 09:47

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25Apr2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1544-82A Client Smp ID: LCS
Level: LOW Operator: JP
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: LCS

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	200.00	170.30	85.15	70-130
9 Freon 114	200.00	172.24	86.12	70-130
10 Chloromethane	200.00	170.10	85.05	70-130
13 Vinyl Chloride	200.00	181.81	90.91	70-130
12 1,3-Butadiene	200.00	172.26	86.13	60-140
15 Bromomethane	200.00	205.45	102.73	70-130
19 Chloroethane	200.00	196.93	98.47	70-130
20 Trichlorofluoromet	200.00	176.25	88.13	70-130
26 Ethanol	200.00	178.48	89.24	60-140
30 Freon 113	200.00	185.73	92.87	70-130
31 1,1-Dichloroethene	200.00	173.03	86.51	70-130
35 Carbon Disulfide	200.00	187.93	93.97	60-140
32 Acetone	200.00	169.51	84.75	60-140
36 2-Propanol	200.00	188.27	94.14	60-140
37 tert-Butyl-Alcohol	200.00	176.77	88.38	60-140
38 3-Chloropropene	200.00	166.65	83.32	60-140
43 Methylene Chloride	200.00	164.24	82.12	70-130
46 MTBE	200.00	217.25	108.63	60-140
47 trans-1,2-Dichloro	200.00	178.79	89.39	60-140
51 Hexane	200.00	173.93	86.97	60-140
55 1,1-Dichloroethane	200.00	179.87	89.93	70-130
66 cis-1,2-Dichloroet	200.00	174.94	87.47	70-130
67 2-Butanone	200.00	181.93	90.97	60-140
70 Tetrahydrofuran	200.00	180.11	90.06	60-140
72 Chloroform	200.00	175.88	87.94	70-130
74 Cyclohexane	200.00	187.16	93.58	60-140
75 1,1,1-Trichloroeth	200.00	189.30	94.65	70-130
56 Vinyl Acetate	200.00	173.73	86.87	70-130
77 Carbon Tetrachlori	200.00	183.77	91.89	70-130
80 2,2,4-Trimethylpen	200.00	180.10	90.05	60-140
81 Benzene	200.00	178.90	89.45	70-130
85 1,2-Dichloroethane	200.00	180.03	90.02	70-130
90 Heptane	200.00	158.40	79.20	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
93 Trichloroethene	200.00	173.68	86.84	70-130
98 1,2-Dichloropropan	200.00	179.64	89.82	70-130
99 1,4-Dioxane	200.00	180.41	90.21	60-140
100 Bromodichlorometha	200.00	178.14	89.07	60-140
103 cis-1,3-Dichloropr	200.00	180.54	90.27	70-130
106 4-Methyl-2-pentano	200.00	172.61	86.30	60-140
108 Toluene	200.00	178.41	89.21	70-130
113 trans-1,3-Dichloro	200.00	179.90	89.95	70-130
114 1,1,2-Trichloroeth	200.00	172.23	86.12	70-130
116 Tetrachloroethene	200.00	173.12	86.56	70-130
119 2-Hexanone	200.00	175.90	87.95	60-140
120 Dibromochlorometha	200.00	182.96	91.48	60-140
122 1,2-Dibromoethane	200.00	172.88	86.44	70-130
126 Chlorobenzene	200.00	174.10	87.05	70-130
128 Ethyl Benzene	200.00	171.05	85.53	70-130
130 m,p-Xylene	200.00	171.19	85.60	70-130
132 o-Xylene	200.00	174.13	87.06	70-130
133 Styrene	200.00	184.39	92.19	70-130
134 Bromoform	200.00	180.70	90.35	60-140
136 Cumene	200.00	187.33	93.67	60-140
141 1,1,2,2-Tetrachlor	200.00	183.50	91.75	70-130
142 Propylbenzene	200.00	180.87	90.44	60-140
144 4-Ethyltoluene	200.00	194.26	97.13	60-140
147 1,3,5-Trimethylben	200.00	187.06	93.53	70-130
152 1,2,4-Trimethylben	200.00	187.67	93.84	70-130
155 1,3-Dichlorobenzen	200.00	172.81	86.41	70-130
156 1,4-Dichlorobenzen	200.00	182.48	91.24	70-130
157 alpha-Chlorotoluen	200.00	198.25	99.13	70-130
159 1,2-Dichlorobenzen	200.00	169.89	84.95	70-130
163 1,2,4-Trichloroben	200.00	162.18	81.09	70-130
164 Hexachlorobutadien	200.00	174.44	87.22	70-130
6 Propylene	200.00	171.42	85.71	60-140
165 Naphthalene	200.00	194.55	97.28	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	400.00	388.26	97.07	70-130
$ 107 Toluene-d8	400.00	402.62	100.66	70-130
$ 138 Bromofluorobenzene	400.00	401.12	100.28	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdc.i/25Apr2008.b/c042506.d
Lab Smp Id: 1544-82A Client Smp ID: LCS
Inj Date : 25-APR-2008 02:58
Operator : JP Inst ID: msdc.i
Smp Info : 50mL,22506
Misc Info : LCS
Comment :
Method : /chem/msdc.i/25Apr2008.b/t145424.m
Meth Date : 28-Apr-2008 09:44 lzhang Quant Type: ISTD
Cal Date : 24-APR-2008 15:16 Cal File: c042414.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
7.921	7.921 (1.000)	130	419330	400.000		80.00- 120.00	100.00
7.921	7.921 (1.000)	128	322546			48.28- 108.28	76.92
7.921	7.921 (1.000)	49	493869			89.90- 149.90	117.78
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.746	9.746 (1.000)	114	1866312	400.000		80.00- 120.00	100.00
9.746	9.746 (1.000)	88	334425			0.00- 48.00	17.92
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.861	14.861 (1.000)	117	1593893	400.000		80.00- 120.00	100.00
14.861	14.861 (1.000)	82	994040			0.00- 30.00	62.37
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.971	8.972 (1.133)	65	792951	388.265	388.26	80.00- 120.00	100.00
8.971	8.972 (1.133)	67	386022			0.00- 30.00	48.68
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.511	12.511 (1.284)	98	1873681	402.626	402.62	80.00- 120.00	100.00
12.511	12.511 (1.284)	70	219946			0.00- 30.00	11.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.511	12.511 (1.284)	100	1300516			0.00- 30.00	69.41
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.437	16.437 (1.106)	174	1019053	401.126	401.12	80.00- 120.00	100.00
16.437	16.437 (1.106)	95	1484420			117.94- 177.94	145.67
16.437	16.437 (1.106)	176	991602			67.07- 127.07	97.31
6 Propylene					CAS #: 115-07-1		
2.225	2.225 (0.281)	41	195796	171.418	171.42	80.00- 120.00	100.00
2.225	2.225 (0.281)	42	130835			0.00- 30.00	66.82
2.225	2.225 (0.281)	39	155816			0.00- 30.00	79.58
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.280	2.280 (0.288)	85	865346	170.301	170.30	80.00- 120.00	100.00
2.280	2.280 (0.288)	87	302367			0.00- 30.00	34.94
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.309)	135	651128	172.243	172.24	80.00- 120.00	100.00
2.446	2.446 (0.309)	137	208183			2.27- 62.27	31.97
10 Chloromethane					CAS #: 74-87-3		
2.529	2.529 (0.319)	50	322619	170.105	170.10	80.00- 120.00	100.00
2.529	2.529 (0.319)	52	85053			0.00- 30.00	26.36
13 Vinyl Chloride					CAS #: 75-01-4		
2.695	2.695 (0.340)	62	335312	181.813	181.81	80.00- 120.00	100.00
2.695	2.695 (0.340)	64	108664			0.00- 30.00	32.41
12 1,3-Butadiene					CAS #: 106-99-0		
2.723	2.750 (0.344)	54	182808	172.261	172.26	80.00- 120.00	100.00
2.723	2.723 (0.344)	39	294904			0.00- 30.00	161.32
15 Bromomethane					CAS #: 74-83-9		
3.193	3.193 (0.403)	94	249198	205.451	205.45	80.00- 120.00	100.00
3.193	3.193 (0.403)	96	240944			64.04- 124.04	96.69
19 Chloroethane					CAS #: 75-00-3		
3.359	3.359 (0.424)	64	159882	196.934	196.93	80.00- 120.00	100.00
3.359	3.359 (0.424)	49	37141			0.00- 30.00	23.23
3.359	3.359 (0.424)	66	48680			0.00- 30.00	30.45
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.635	3.635 (0.459)	101	1093924	176.253	176.25	80.00- 120.00	100.00
3.635	3.635 (0.459)	103	698571			33.94- 93.94	63.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.022	4.022 (0.508)	45	112815	178.485	178.48	80.00- 120.00	100.00
4.022	4.022 (0.508)	43	32407			0.00- 30.00	28.73
4.022	4.022 (0.508)	46	45560			0.00- 30.00	40.38
30 Freon 113					CAS #: 76-13-1		
4.437	4.437 (0.560)	151	513397	185.730	185.73	80.00- 120.00	100.00
4.437	4.437 (0.560)	153	320860			33.88- 93.88	62.50
4.437	4.437 (0.560)	101	550879			71.47- 131.47	107.30
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.465	4.465 (0.564)	61	673316	173.029	173.03	80.00- 120.00	100.00
4.465	4.465 (0.564)	96	388308			27.58- 87.58	57.67
4.465	4.465 (0.564)	98	250938			7.39- 67.39	37.27
32 Acetone					CAS #: 67-64-1		
4.630	4.631 (0.585)	58	155380	169.507	169.51	80.00- 120.00	100.00
4.630	4.631 (0.585)	43	532635			0.00- 30.00	342.80
36 2-Propanol					CAS #: 67-63-0		
4.824	4.852 (0.609)	45	571048	188.273	188.27	80.00- 120.00	100.00
4.824	4.824 (0.609)	43	146561			0.00- 30.00	25.67
4.852	4.852 (0.613)	59	26456			0.00- 30.00	4.63
35 Carbon Disulfide					CAS #: 75-15-0		
4.796	4.796 (0.606)	76	965932	187.933	187.93	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.073	5.073 (0.640)	76	193513	166.646	166.65	80.00- 120.00	100.00
5.073	5.073 (0.640)	41	399926			0.00- 30.00	206.67
43 Methylene Chloride					CAS #: 75-09-2		
5.322	5.322 (0.672)	49	355752	164.244	164.24	80.00- 120.00	100.00
5.349	5.349 (0.675)	84	306833			57.16- 117.16	86.25
5.349	5.349 (0.675)	51	112954			0.00- 30.00	31.75
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.488	5.488 (0.693)	59	441348	176.767	176.77	80.00- 120.00	100.00
5.488	5.488 (0.693)	41	91965			0.00- 30.00	20.84
5.488	5.488 (0.693)	57	48130			0.00- 30.00	10.91
46 MTBE					CAS #: 1634-04-4		
5.654	5.654 (0.714)	73	538748	217.254	217.25	80.00- 120.00	100.00
5.654	5.626 (0.714)	57	106920			0.00- 50.24	19.85
5.654	5.626 (0.714)	41	102551			0.00- 30.00	19.04

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.681	5.681 (0.717)	96	383879	178.786	178.79	80.00- 120.00	100.00
5.681	5.681 (0.717)	61	559503			120.38- 180.38	145.75
5.681	5.681 (0.717)	98	241287			0.00- 30.00	62.85
51 Hexane					CAS #: 110-54-3		
5.985	5.985 (0.756)	57	566137	173.933	173.93	80.00- 120.00	100.00
5.985	5.985 (0.756)	43	331348			0.00- 30.00	58.53
6.013	6.013 (0.759)	86	113039			0.00- 30.00	19.97
56 Vinyl Acetate					CAS #: 108-05-4		
6.538	6.538 (0.825)	86	99873	173.731	173.73	80.00- 120.00	100.00
6.538	6.538 (0.825)	43	878937			0.00- 30.00	880.05
6.538	6.538 (0.825)	42	86077			0.00- 30.00	86.19
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.483	6.455 (0.818)	63	678166	179.869	179.87	80.00- 120.00	100.00
6.483	6.455 (0.818)	65	216407			1.58- 61.58	31.91
67 2-Butanone					CAS #: 78-93-3		
7.534	7.534 (0.951)	72	185274	181.933	181.93	80.00- 120.00	100.00
7.534	7.534 (0.951)	43	631349			324.30- 384.30	340.77
7.534	7.534 (0.951)	57	57384			0.00- 30.00	30.97
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.478	7.478 (0.944)	61	512987	174.936	174.94	80.00- 120.00	100.00
7.478	7.478 (0.944)	96	377983			43.25- 103.25	73.68
7.478	7.478 (0.944)	98	231214			16.61- 76.61	45.07
70 Tetrahydrofuran					CAS #: 109-99-9		
7.893	7.893 (0.996)	42	352149	180.114	180.11	80.00- 120.00	100.00
7.893	7.893 (0.996)	71	163990			15.10- 75.10	46.57
7.893	7.893 (0.996)	72	175618			0.00- 30.00	49.87
72 Chloroform					CAS #: 67-66-3		
8.031	8.031 (1.014)	83	856642	175.884	175.88	80.00- 120.00	100.00
8.031	8.031 (1.014)	85	546489			35.27- 95.27	63.79
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.280	8.280 (1.045)	97	921831	189.296	189.30	80.00- 120.00	100.00
8.280	8.280 (1.045)	99	580242			33.23- 93.23	62.94
74 Cyclohexane					CAS #: 110-82-7		
8.225	8.225 (1.038)	84	514964	187.164	187.16	80.00- 120.00	100.00
8.225	8.225 (1.038)	56	537142			77.02- 137.02	104.31
8.225	8.225 (1.038)	41	303072			28.77- 88.77	58.85

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.501	8.474 (1.073)	119	998683	183.772	183.77	80.00- 120.00	100.00
8.501	8.474 (1.073)	117	1043292			75.64- 135.64	104.47
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.889	8.889 (1.122)	57	1655811	180.096	180.10	80.00- 120.00	100.00
8.889	8.889 (1.122)	56	495025			0.00- 30.00	29.90
8.889	8.889 (1.122)	41	488393			0.00- 30.00	29.50
81 Benzene					CAS #: 71-43-2		
8.916	8.916 (0.915)	78	1096782	178.905	178.90	80.00- 120.00	100.00
8.916	8.916 (0.915)	77	264848			0.00- 30.00	24.15
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.110	9.110 (0.935)	62	655641	180.035	180.03	80.00- 120.00	100.00
9.110	9.110 (0.935)	64	213469			0.00- 30.00	32.56
90 Heptane					CAS #: 142-82-5		
9.276	9.276 (0.952)	100	131273	158.402	158.40	80.00- 120.00	100.00
9.276	9.276 (0.952)	43	577896			0.00- 30.00	440.22
9.276	9.276 (0.952)	71	395727			0.00- 30.00	301.45
93 Trichloroethene					CAS #: 79-01-6		
10.133	10.133 (1.040)	95	516078	173.677	173.68	80.00- 120.00	100.00
10.133	10.133 (1.040)	130	496007			65.16- 125.16	96.11
10.133	10.133 (1.040)	97	335434			34.24- 94.24	65.00
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.658	10.658 (1.094)	63	353149	179.643	179.64	80.00- 120.00	100.00
10.658	10.658 (1.094)	62	241739			39.88- 99.88	68.45
10.658	10.658 (1.094)	41	251115			42.17- 102.17	71.11
99 1,4-Dioxane					CAS #: 123-91-1		
10.907	10.907 (1.119)	88	251126	180.413	180.41	80.00- 120.00	100.00
10.907	10.907 (1.119)	58	157893			33.43- 93.43	62.87
10.907	10.907 (1.119)	57	55564			0.00- 30.00	22.13
100 Bromodichloromethane					CAS #: 75-27-4		
11.211	11.211 (1.150)	83	908629	178.144	178.14	80.00- 120.00	100.00
11.211	11.211 (1.150)	85	589575			33.54- 93.54	64.89
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.151	12.151 (1.247)	75	626388	180.546	180.54	80.00- 120.00	100.00
12.151	12.151 (1.247)	77	189839			1.50- 61.50	30.31
12.123	12.124 (1.244)	39	336015			24.57- 84.57	53.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.455	12.455 (1.278)	85	157194	172.608	172.61	80.00- 120.00	100.00
12.455	12.455 (1.278)	43	736210			0.00- 30.00	468.34
12.455	12.455 (1.278)	58	304639			0.00- 30.00	193.80
108 Toluene					CAS #: 108-88-3		
12.649	12.649 (1.298)	91	1346794	178.412	178.41	80.00- 120.00	100.00
12.649	12.649 (1.298)	92	789403			27.71- 87.71	58.61
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.229	13.230 (0.890)	75	709171	179.901	179.90	80.00- 120.00	100.00
13.229	13.230 (0.890)	77	218254			1.56- 61.56	30.78
13.202	13.202 (0.888)	39	324242			17.45- 77.45	45.72
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.506	13.506 (0.909)	97	432035	172.234	172.23	80.00- 120.00	100.00
13.506	13.506 (0.909)	99	272019			32.04- 92.04	62.96
13.506	13.506 (0.909)	83	343865			50.64- 110.64	79.59
116 Tetrachloroethene					CAS #: 127-18-4		
13.506	13.506 (0.909)	166	615669	173.123	173.12	80.00- 120.00	100.00
13.506	13.506 (0.909)	129	513681			53.60- 113.60	83.43
13.506	13.506 (0.909)	131	487731			49.41- 109.41	79.22
119 2-Hexanone					CAS #: 591-78-6		
13.893	13.893 (0.935)	58	386541	175.903	175.90	80.00- 120.00	100.00
13.893	13.893 (0.935)	43	727586			158.13- 218.13	188.23
13.893	13.893 (0.935)	100	100278			0.00- 30.00	25.94
120 Dibromochloromethane					CAS #: 124-48-1		
14.059	14.059 (0.946)	129	866275	182.965	182.96	80.00- 120.00	100.00
14.059	14.059 (0.946)	127	673433			0.00- 30.00	77.74
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.225	14.225 (0.957)	107	682137	172.879	172.88	80.00- 120.00	100.00
14.225	14.225 (0.957)	109	644798			63.39- 123.39	94.53
126 Chlorobenzene					CAS #: 108-90-7		
14.888	14.889 (1.002)	112	1063033	174.095	174.10	80.00- 120.00	100.00
14.888	14.889 (1.002)	114	340508			2.34- 62.34	32.03
14.888	14.889 (1.002)	77	711647			36.50- 96.50	66.94
128 Ethyl Benzene					CAS #: 100-41-4		
15.027	15.027 (1.011)	106	537532	171.051	171.05	80.00- 120.00	100.00
15.027	15.027 (1.011)	91	1895261			0.00- 30.00	352.59

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene					CAS #: 108-38-3		
15.193	15.193 (1.022)	106	678383	171.192	171.19	80.00- 120.00	100.00
15.193	15.193 (1.022)	91	1593170			0.00- 30.00	234.85
132 o-Xylene					CAS #: 95-47-6		
15.718	15.718 (1.058)	106	645945	174.128	174.13	80.00- 120.00	100.00
15.718	15.718 (1.058)	91	1593571			218.91- 278.91	246.70
133 Styrene					CAS #: 100-42-5		
15.773	15.773 (1.061)	104	1045385	184.390	184.39	80.00- 120.00	100.00
15.773	15.773 (1.061)	78	653139			32.56- 92.56	62.48
134 Bromoform					CAS #: 75-25-2		
16.022	16.022 (1.078)	173	776637	180.698	180.70	80.00- 120.00	100.00
16.022	16.022 (1.078)	171	405517			22.60- 82.60	52.21
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.686	16.686 (1.123)	83	911744	183.497	183.50	80.00- 120.00	100.00
16.686	16.686 (1.123)	85	593487			34.71- 94.71	65.09
144 4-Ethyltoluene					CAS #: 622-96-8		
16.852	16.852 (1.134)	105	2119750	194.260	194.26	80.00- 120.00	100.00
16.852	16.852 (1.134)	120	596667			0.00- 58.00	28.15
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.934	16.935 (1.140)	105	1832296	187.064	187.06	80.00- 120.00	100.00
16.934	16.935 (1.140)	120	804366			0.00- 30.00	43.90
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.322	17.322 (1.166)	105	1996982	187.673	187.67	80.00- 120.00	100.00
17.322	17.322 (1.166)	120	789185			9.95- 69.95	39.52
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.626	17.626 (1.186)	146	1053528	172.813	172.81	80.00- 120.00	100.00
17.626	17.626 (1.186)	148	672414			0.00- 30.00	63.82
17.626	17.626 (1.186)	111	505663			0.00- 30.00	48.00
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.736	17.736 (1.193)	146	1195980	182.485	182.48	80.00- 120.00	100.00
17.736	17.736 (1.193)	148	765827			0.00- 30.00	64.03
17.736	17.736 (1.193)	111	501990			0.00- 30.00	41.97
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.875	17.875 (1.203)	91	1831333	198.252	198.25	80.00- 120.00	100.00
17.875	17.875 (1.203)	126	324925			0.00- 30.00	17.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.096	18.096 (1.218)	146	915803	169.894	169.89	80.00- 120.00	100.00
18.096	18.096 (1.218)	148	585057			33.62- 93.62	63.88
18.068	18.068 (1.216)	111	424554			16.85- 76.85	46.36
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.368	19.368 (1.303)	180	546738	162.180	162.18	80.00- 120.00	100.00
19.368	19.368 (1.303)	182	519872			66.88- 126.88	95.09
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.451	19.451 (1.309)	225	614941	174.443	174.44	80.00- 120.00	100.00
19.451	19.451 (1.309)	223	393619			33.44- 93.44	64.01
142 Propylbenzene					CAS #: 103-65-1		
16.686	16.686 (1.123)	91	2487718	180.871	180.87	80.00- 120.00	100.00
16.713	16.713 (1.125)	120	534365			0.00- 30.00	21.48
16.713	16.713 (1.125)	105	92957			0.00- 30.00	3.74
136 Cumene					CAS #: 98-82-8		
16.188	16.188 (1.089)	105	2194618	187.332	187.33	80.00- 120.00	100.00
16.188	16.188 (1.089)	120	535788			0.00- 30.00	24.41
16.188	16.188 (1.089)	51	194957			0.00- 30.00	8.88
165 Naphthalene					CAS #: 91-20-3		
19.561	19.561 (1.316)	128	1498811	194.554	194.55	80.00- 120.00	100.00
19.561	19.561 (1.316)	127	193786			0.00- 30.00	12.93

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042506.d
Lab Smp Id: 1544-82A
Analysis Type: VOA
Quant Type: ISTD
Operator: JP
Method File: /chem/msdc.i/25Apr2008.b/t145424.m
Misc Info: LCS

Calibration Date: 25-APR-2008
Calibration Time: 01:24
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	426794	256076	597512	419330	-1.75
92 1,4-Difluorobenze	1936987	1162192	2711782	1866312	-3.65
125 Chlorobenzene-d5	1655878	993527	2318229	1593893	-3.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	7.92	7.59	8.25	7.92	0.00
92 1,4-Difluorobenze	9.75	9.42	10.08	9.75	0.00
125 Chlorobenzene-d5	14.86	14.53	15.19	14.86	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

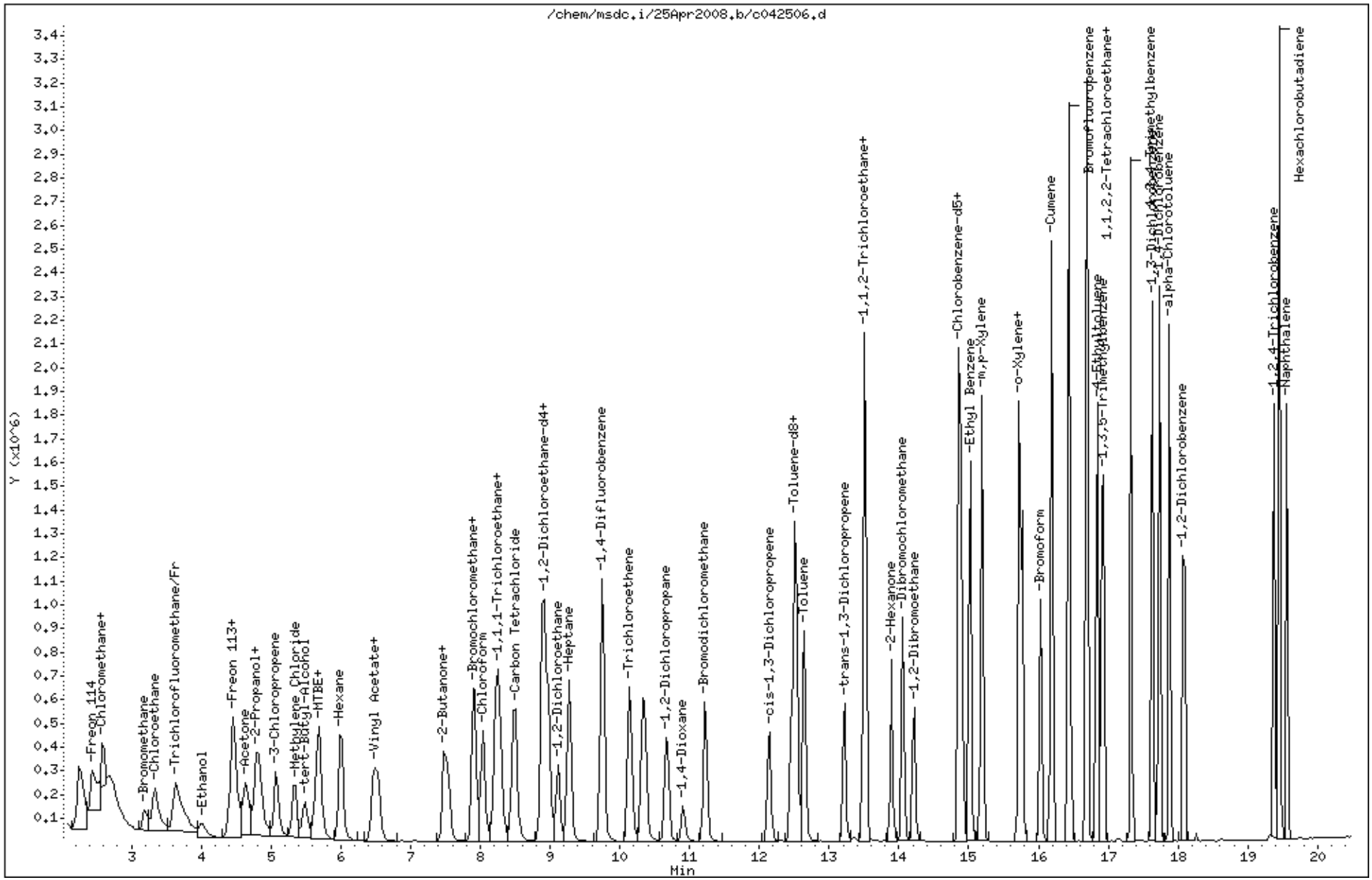
0396

Data File: /chem/msdc.i/25Apr2008.b/c042506.d
Date : 25-APR-2008 02:58
Client ID: LCS
Sample Info: 50mL,22506

Instrument: msdc.i

Operator: JP
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

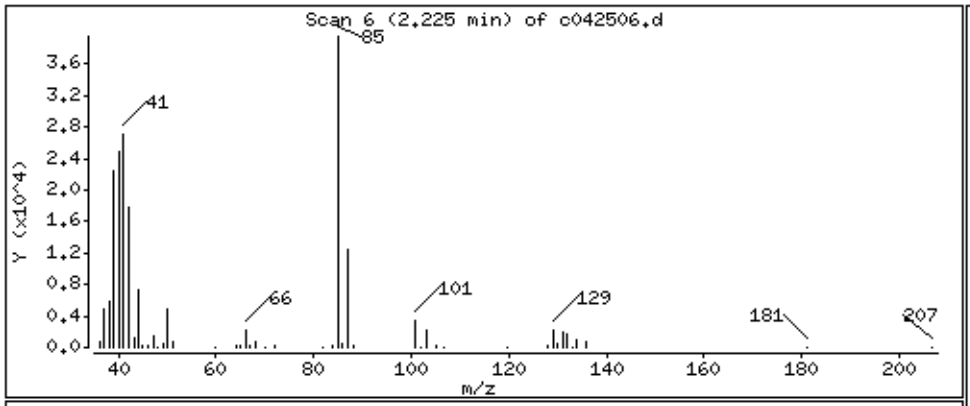
Operator: JP

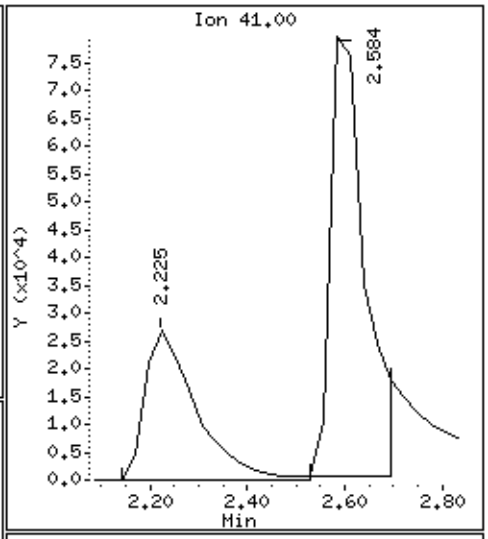
Column phase: RTx-624

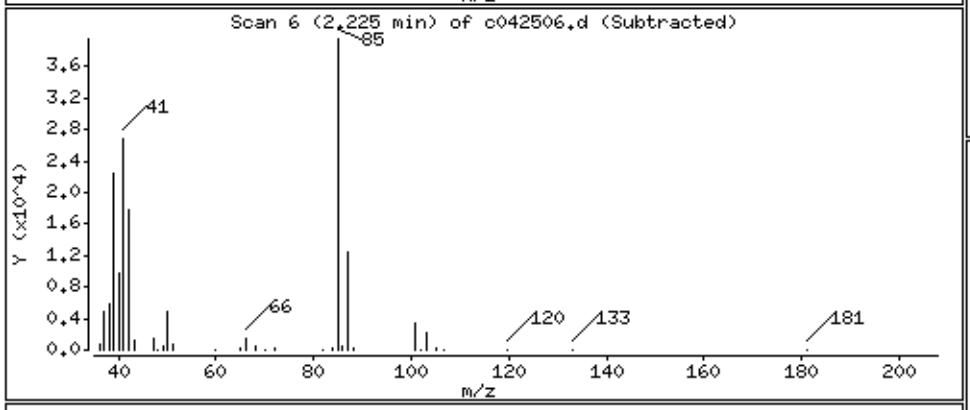
Column diameter: 0.53

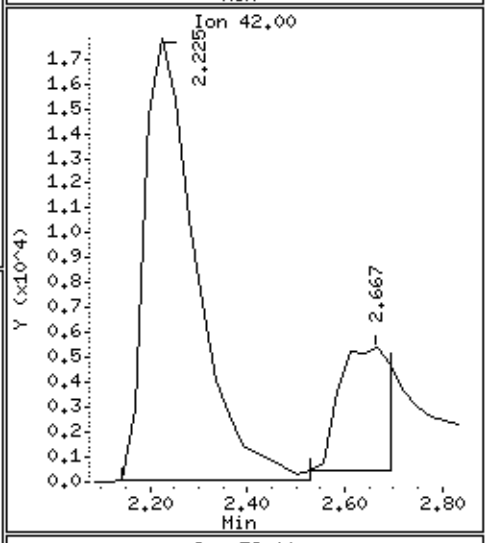
6 Propylene

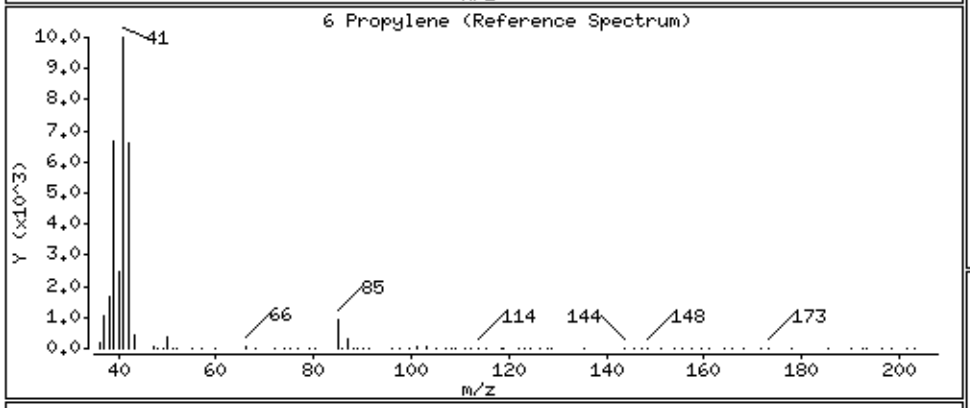
Concentration: 171.42 PPBV

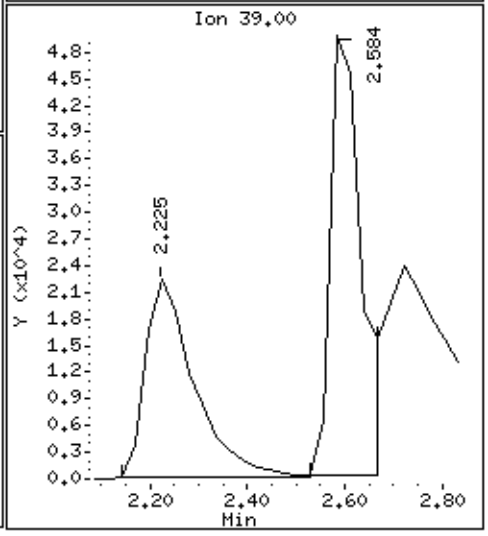


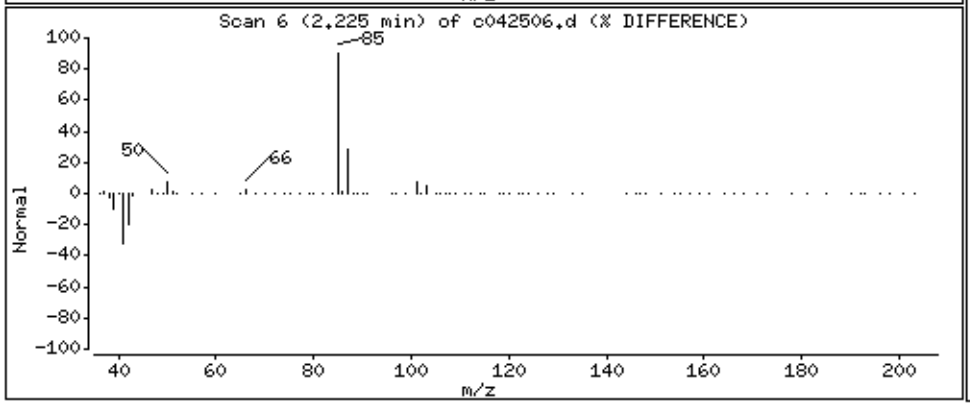












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

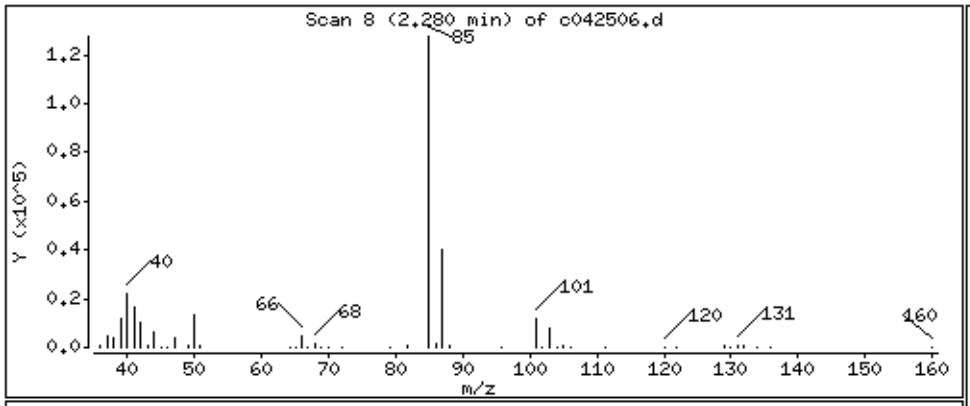
Operator: JP

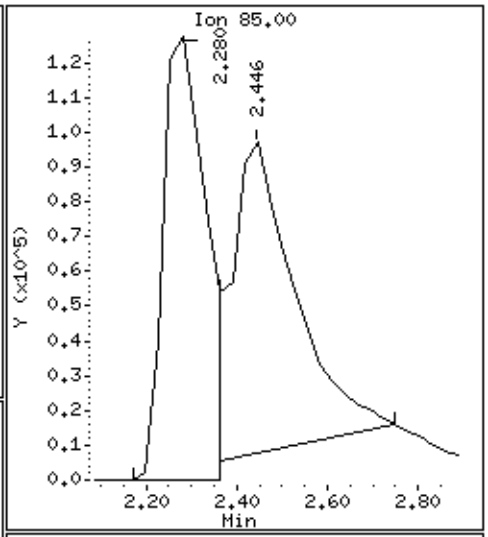
Column phase: RTx-624

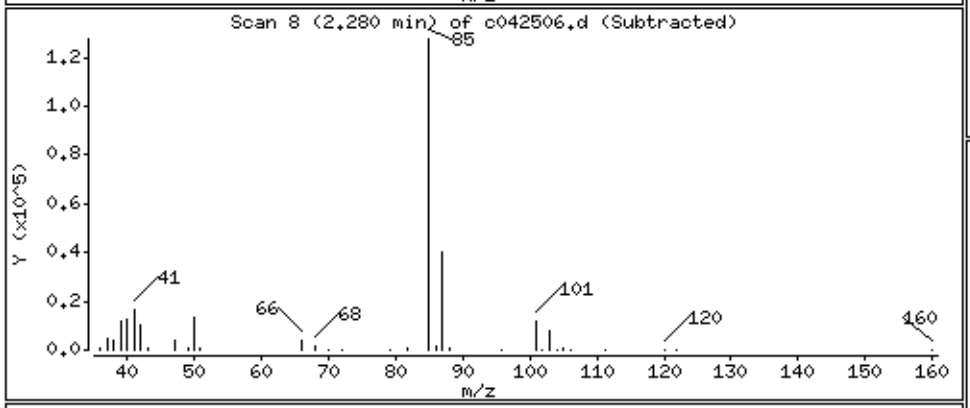
Column diameter: 0.53

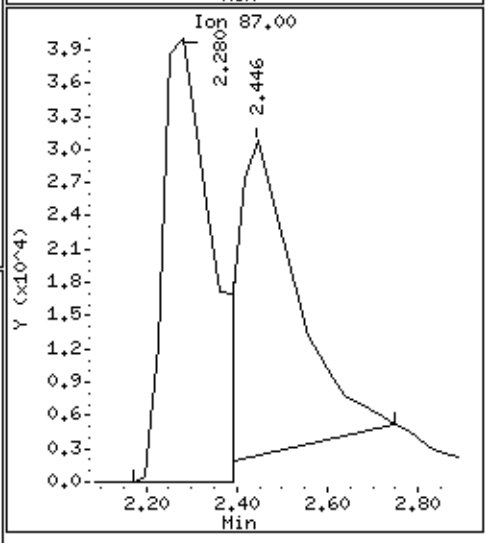
8 Dichlorodifluoromethane/Fr12

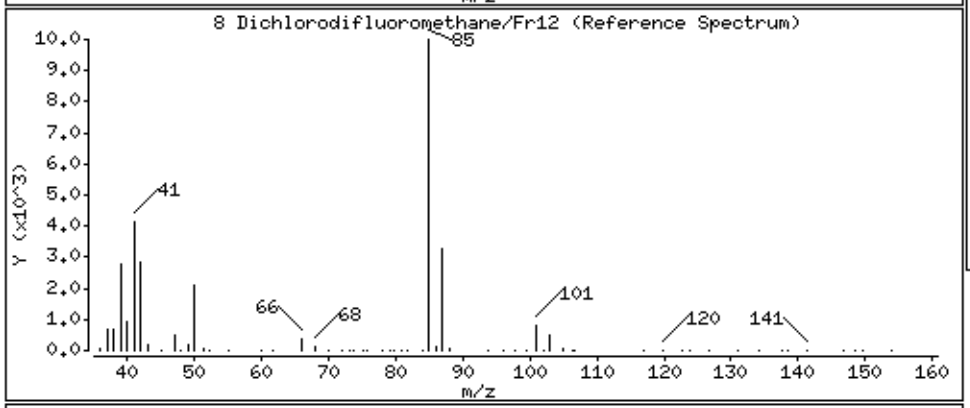
Concentration: 170.30 PPBV

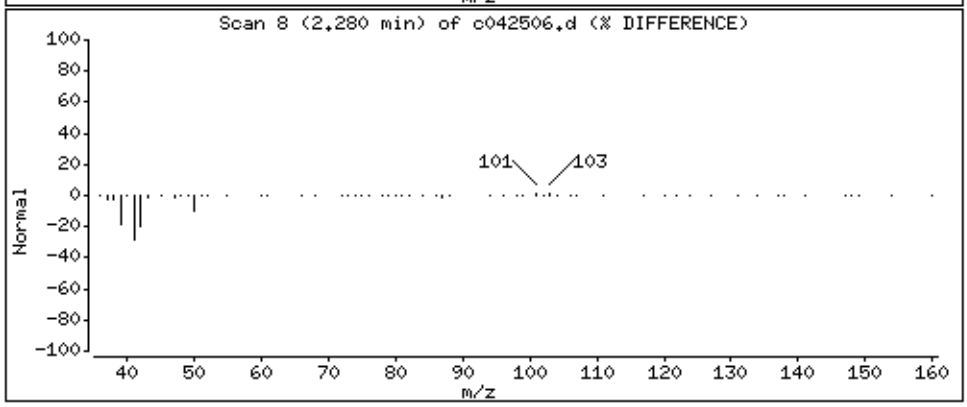












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

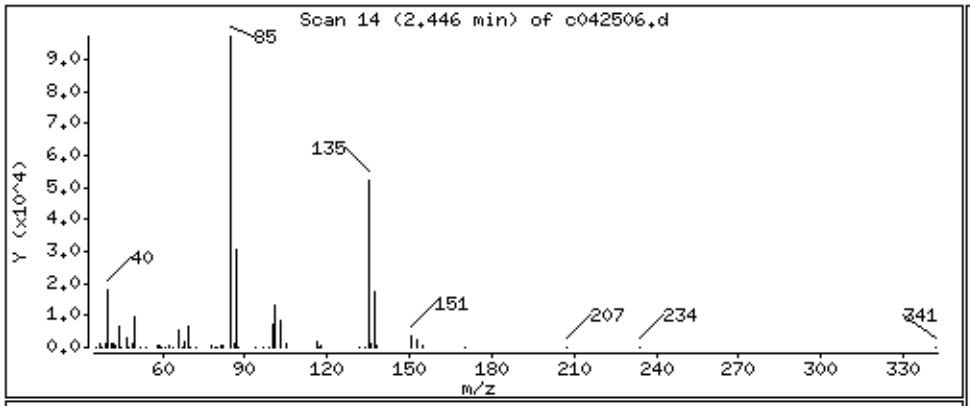
Operator: JP

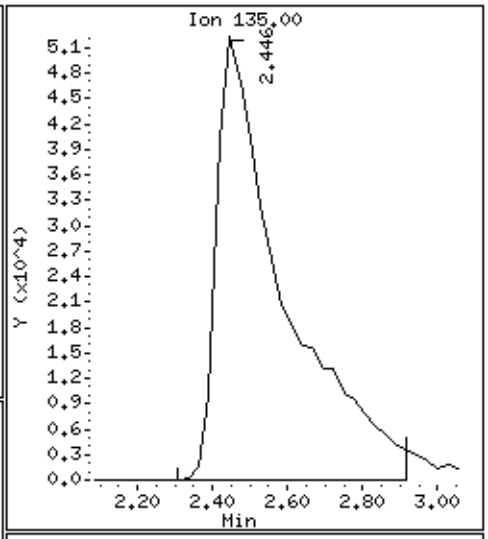
Column phase: RTx-624

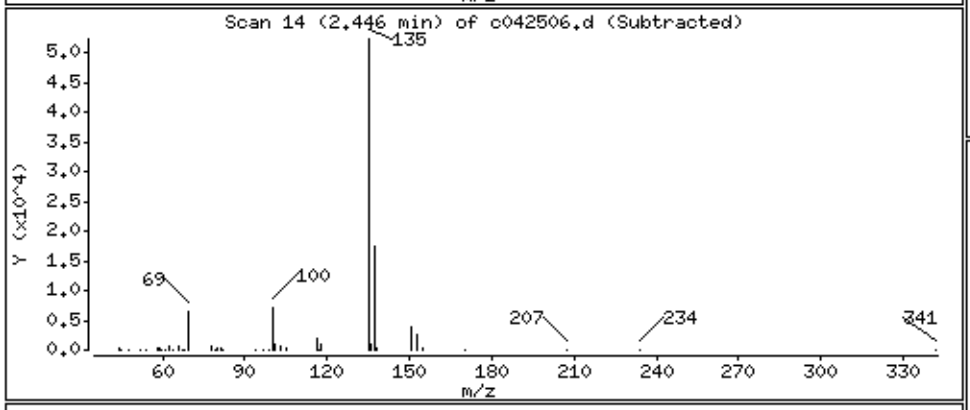
Column diameter: 0.53

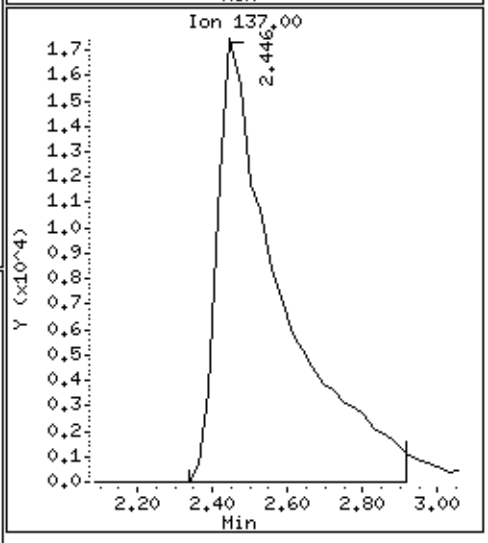
9 Freon 114

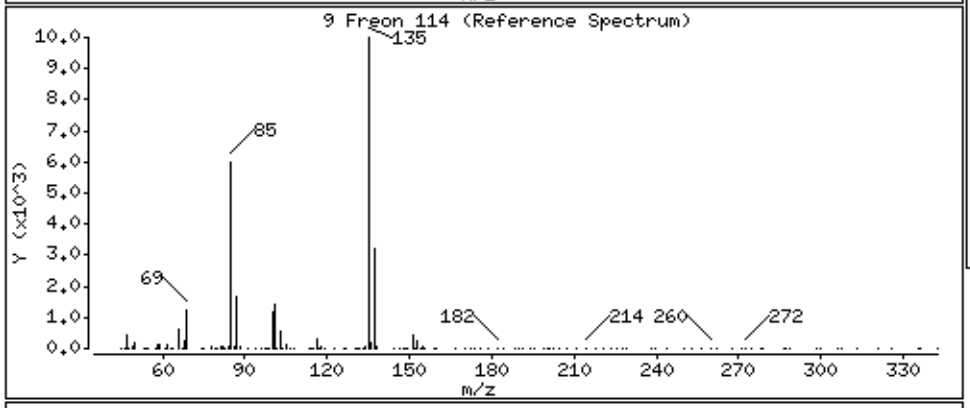
Concentration: 172.24 PPBV

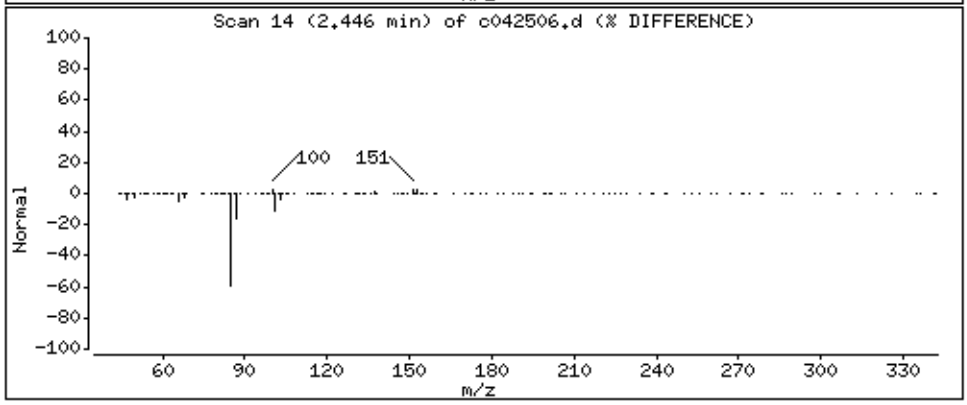












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

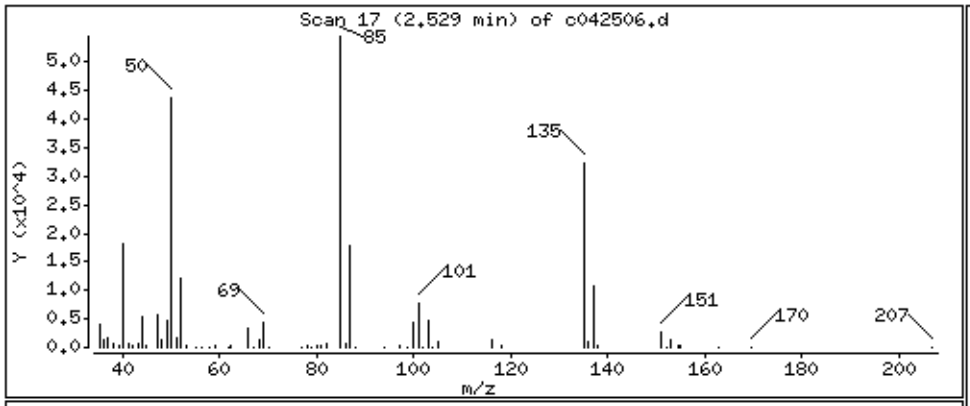
Operator: JP

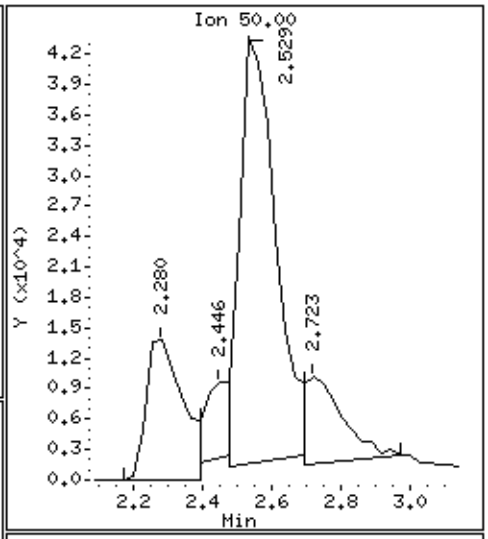
Column phase: RTx-624

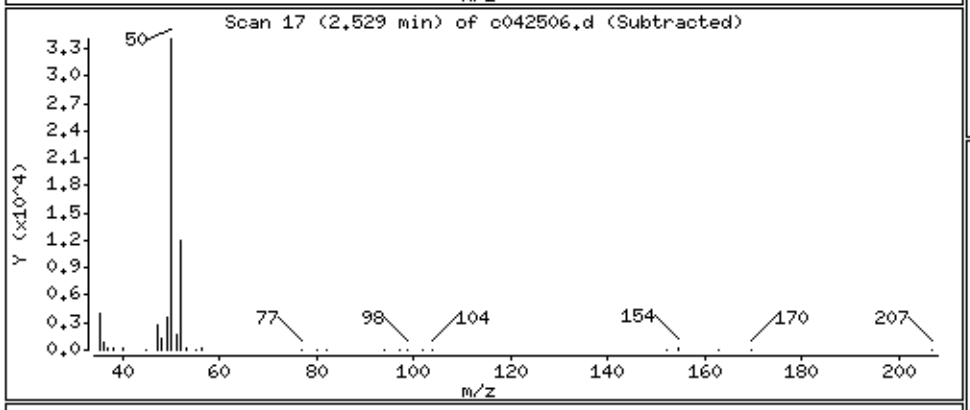
Column diameter: 0.53

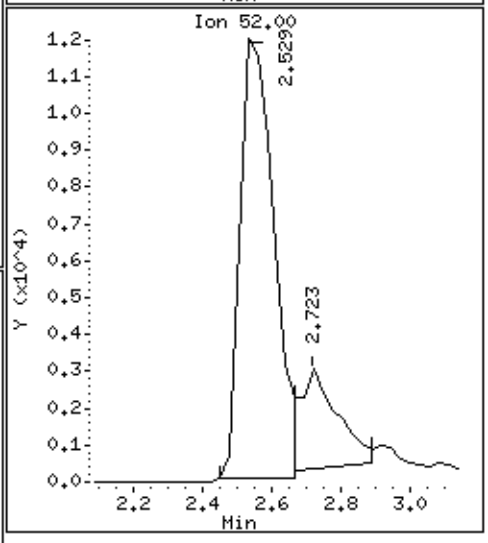
10 Chloromethane

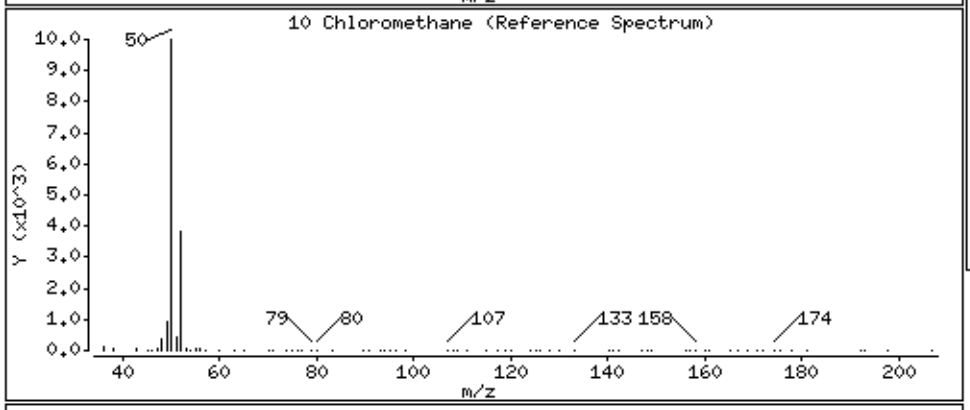
Concentration: 170.10 PPBV

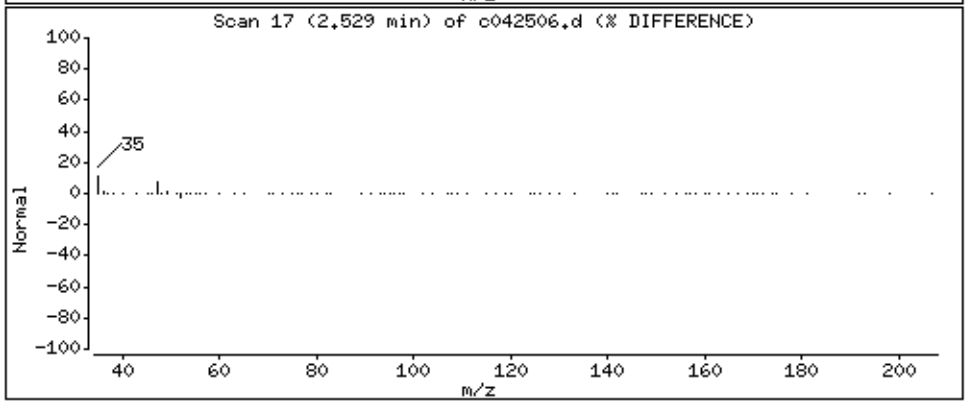












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

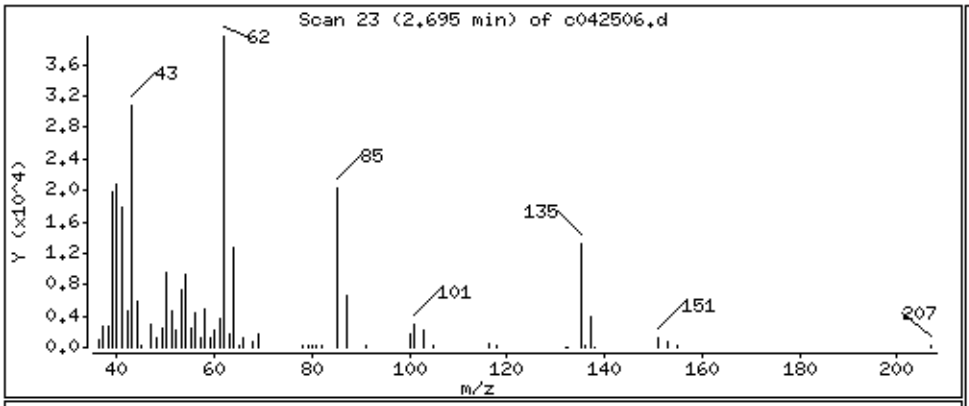
Operator: JP

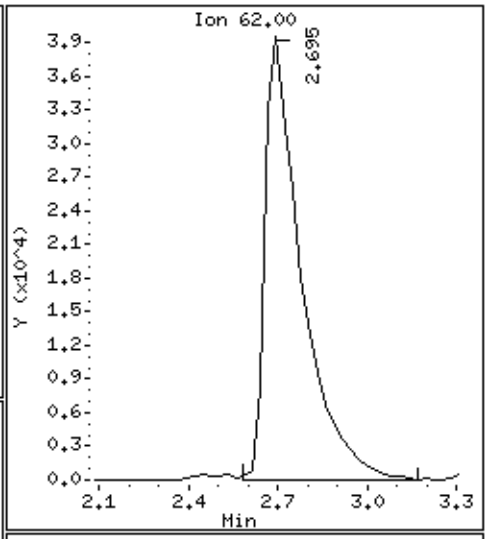
Column phase: RTx-624

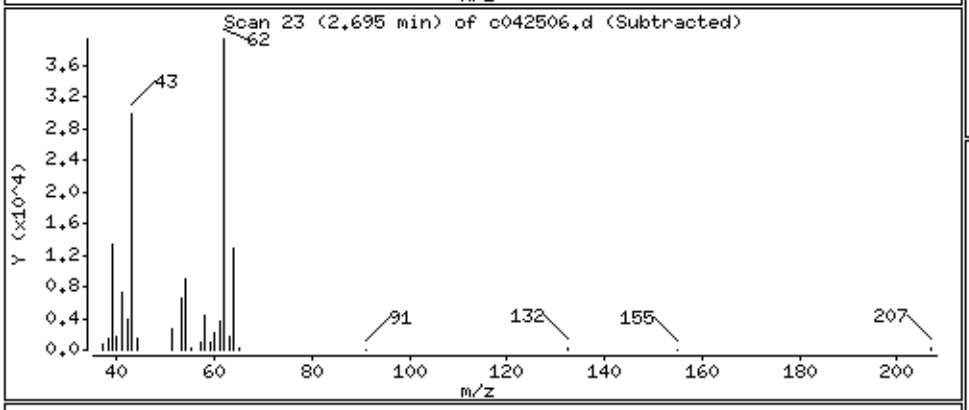
Column diameter: 0.53

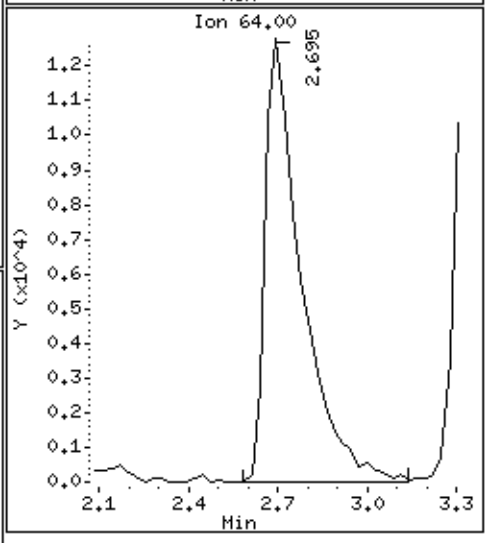
13 Vinyl Chloride

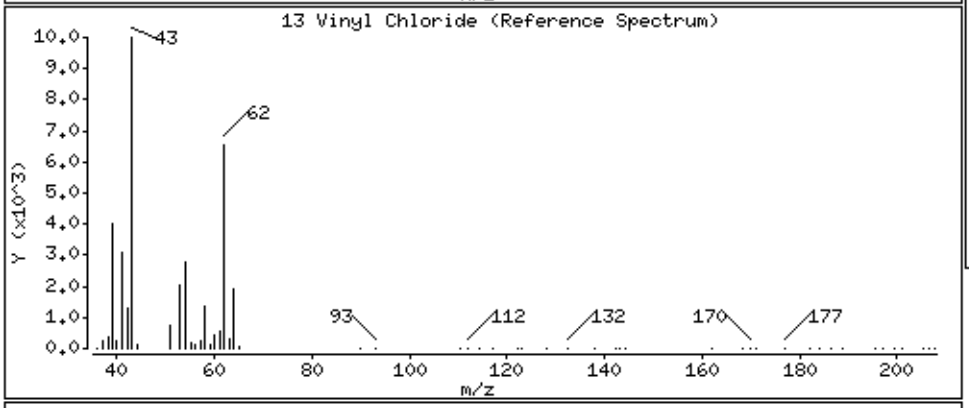
Concentration: 181.81 PPBV

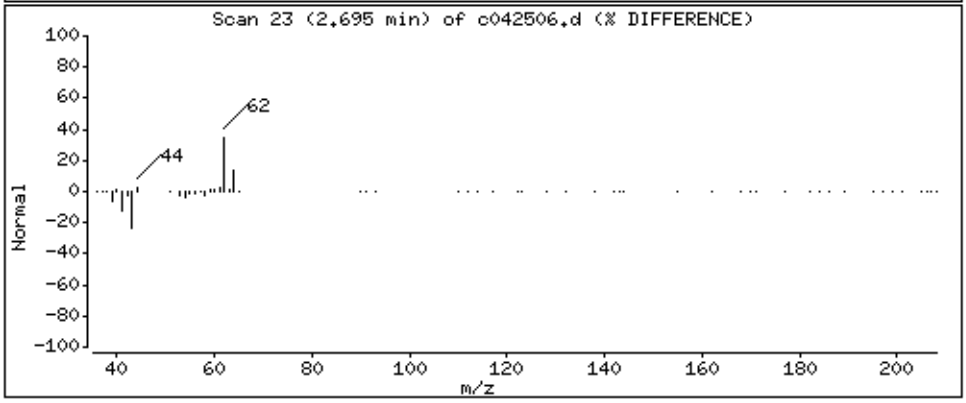












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

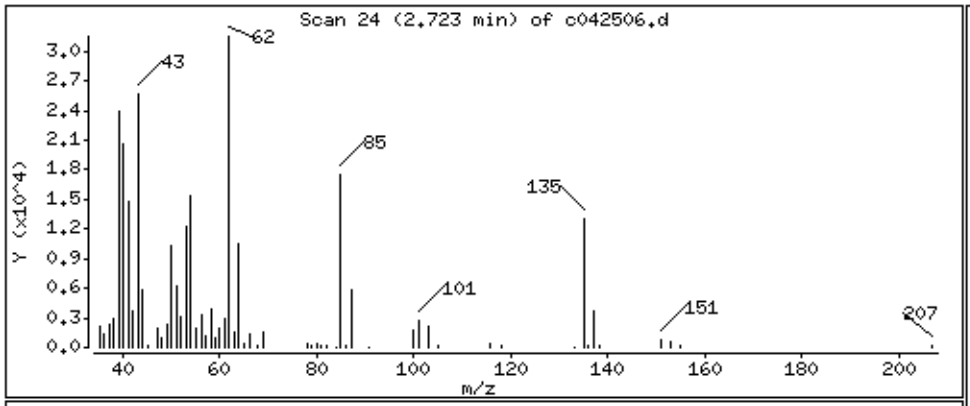
Operator: JP

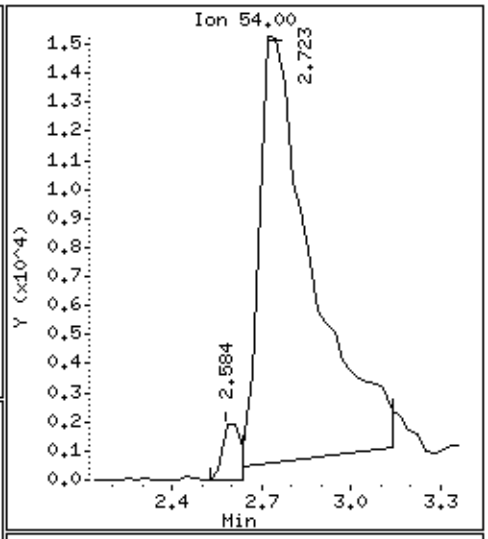
Column phase: RTx-624

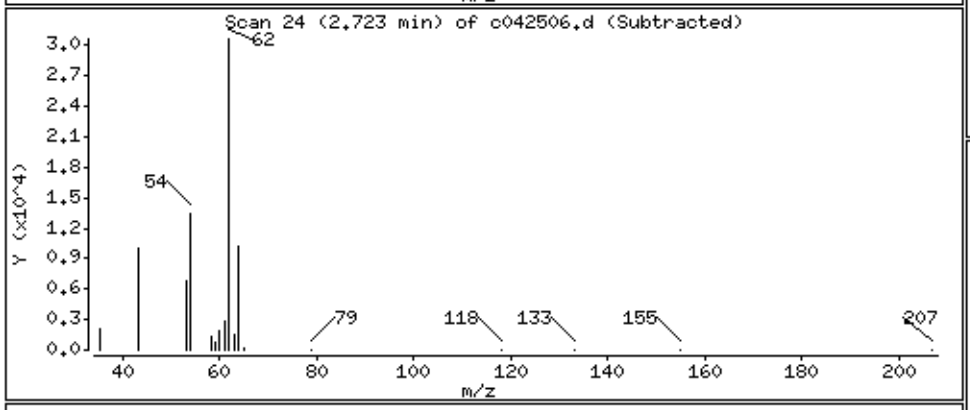
Column diameter: 0.53

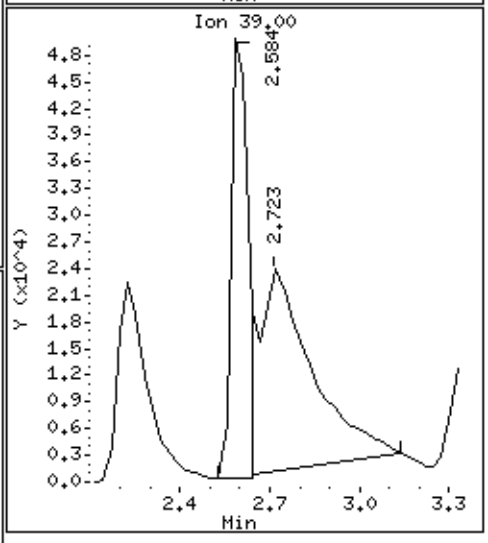
12 1,3-Butadiene

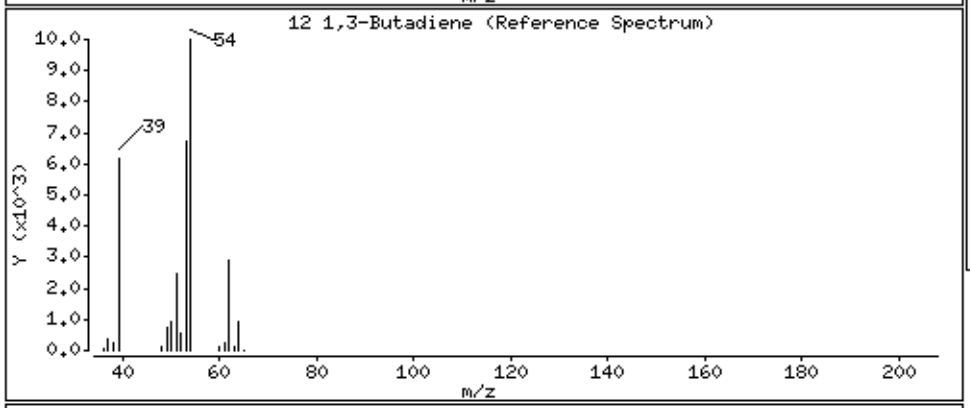
Concentration: 172.26 PPBV

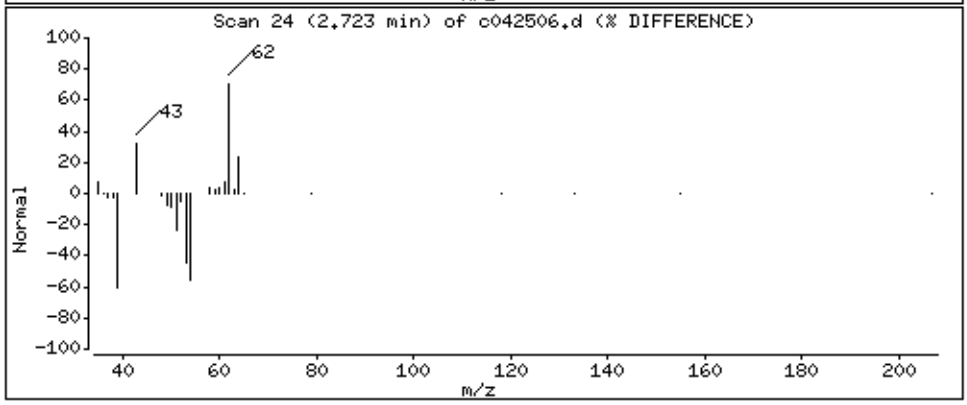












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

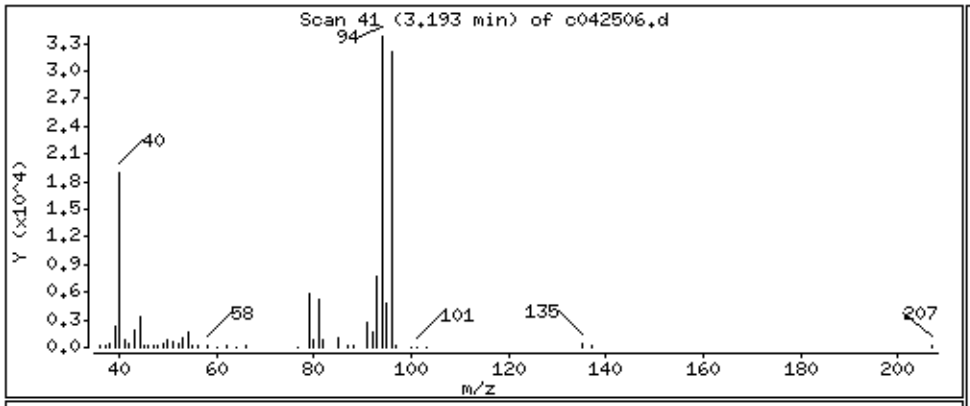
Operator: JP

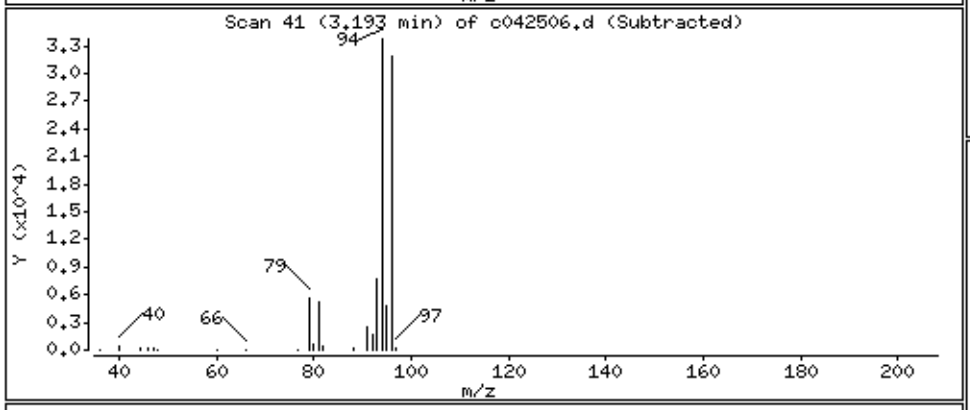
Column phase: RTx-624

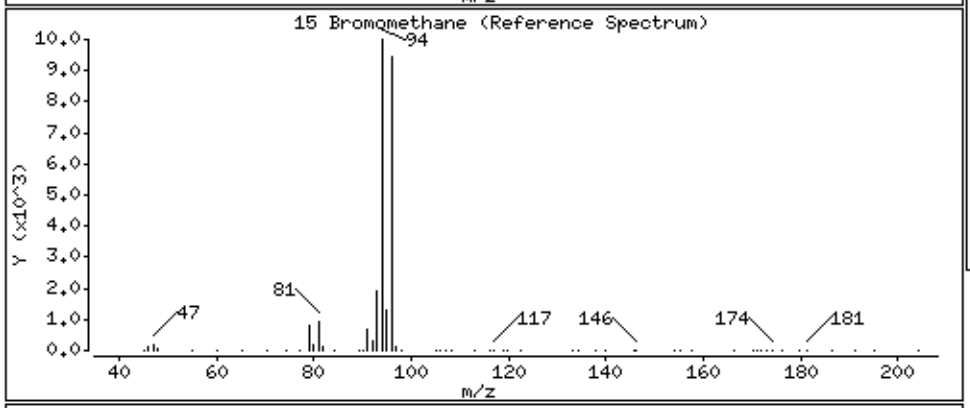
Column diameter: 0.53

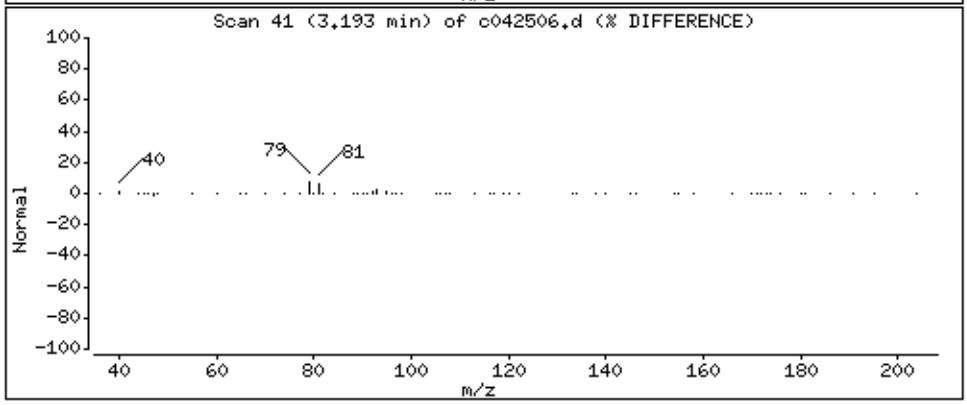
15 Bromomethane

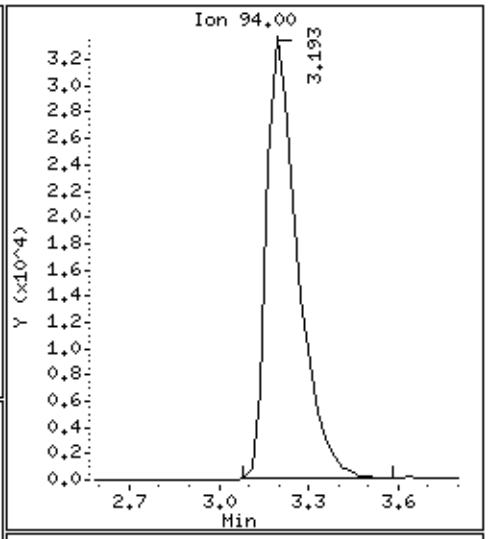
Concentration: 205.45 PPBV

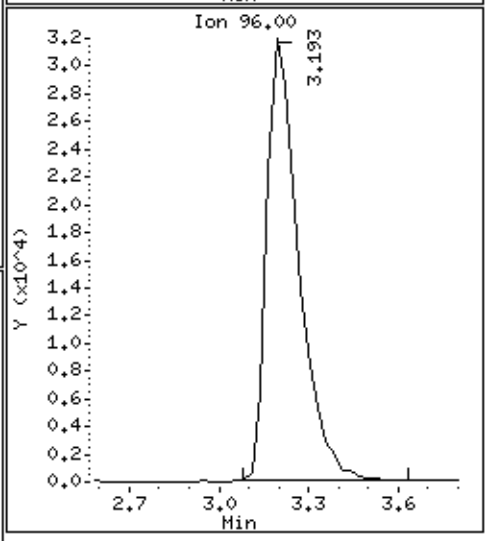












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

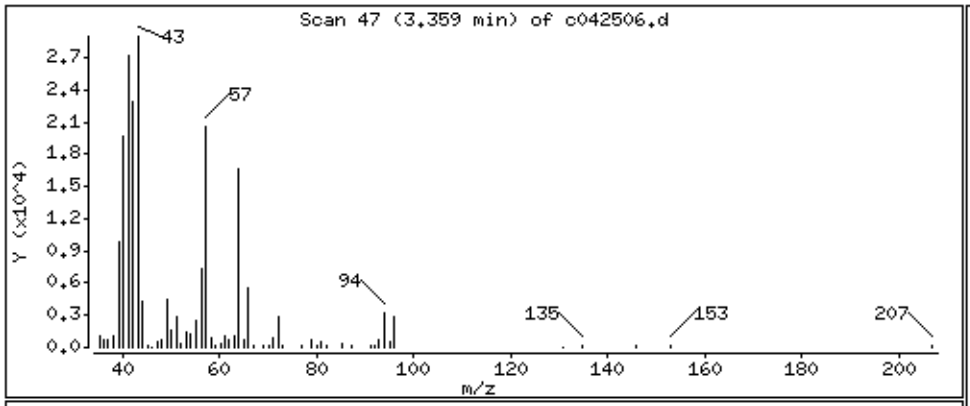
Operator: JP

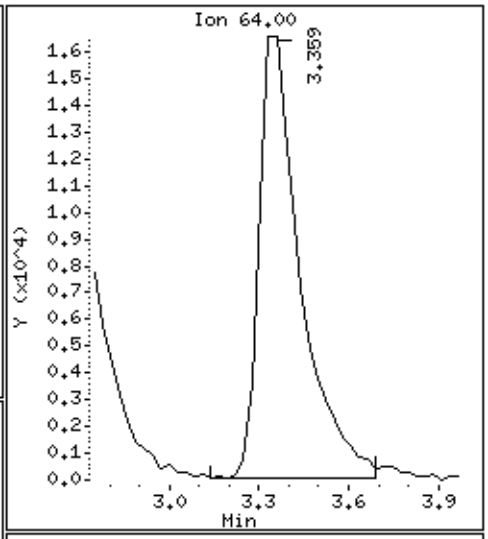
Column phase: RTx-624

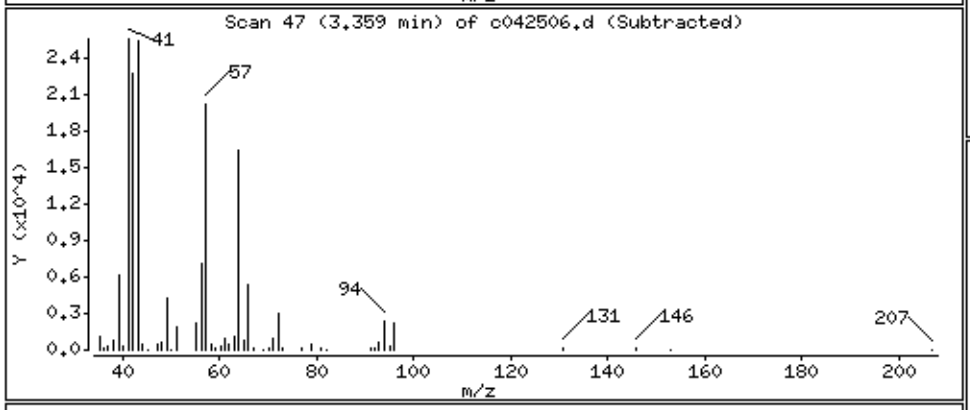
Column diameter: 0.53

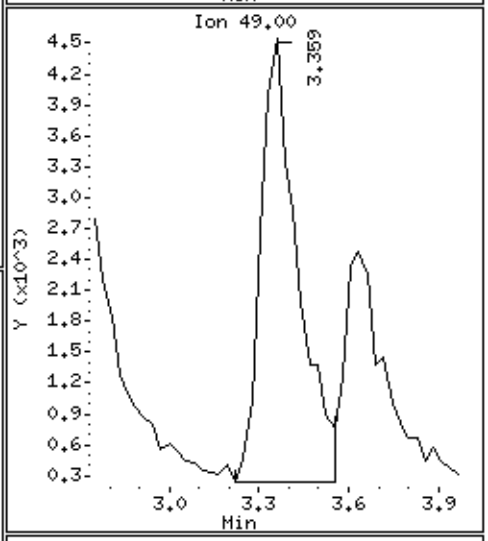
19 Chloroethane

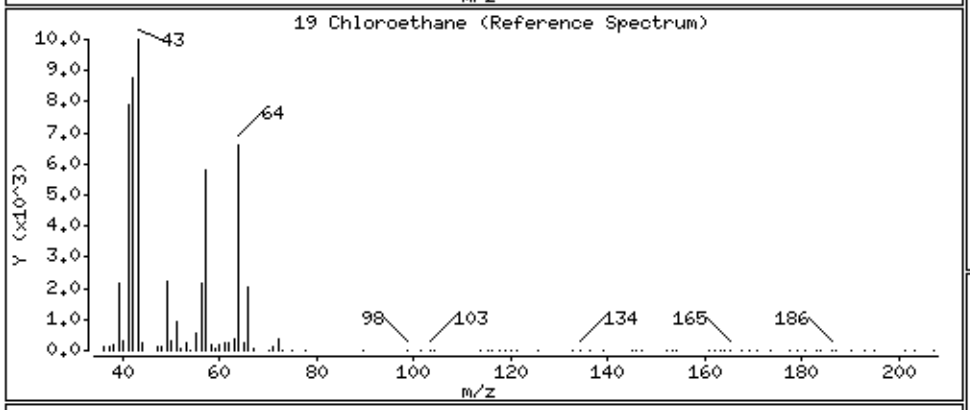
Concentration: 196.93 PPBV

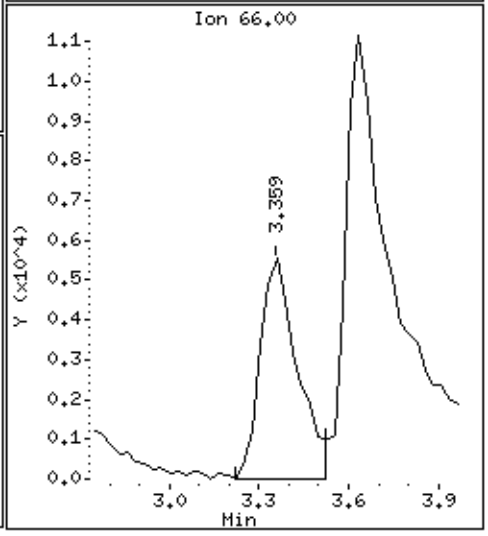


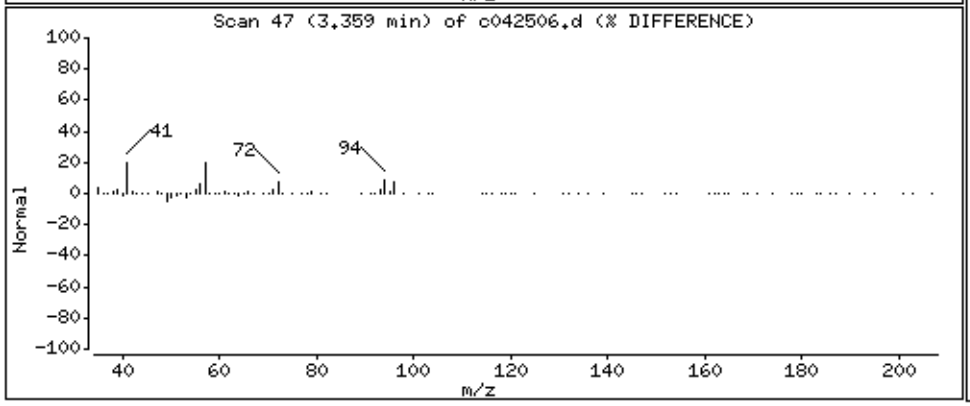












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

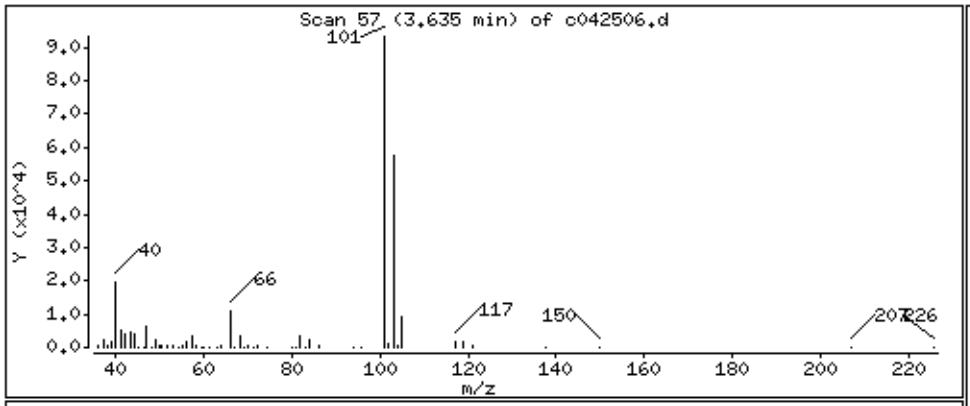
Operator: JP

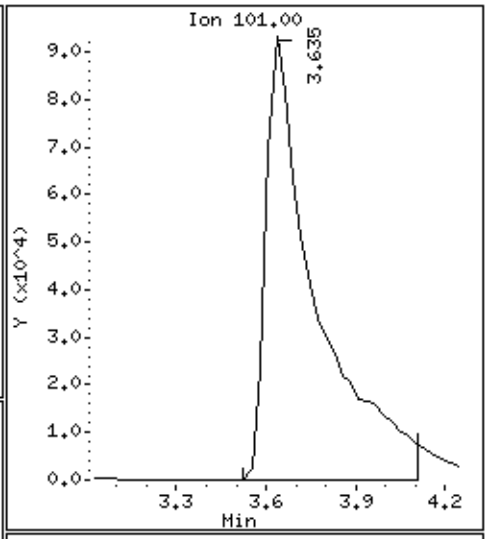
Column phase: RTx-624

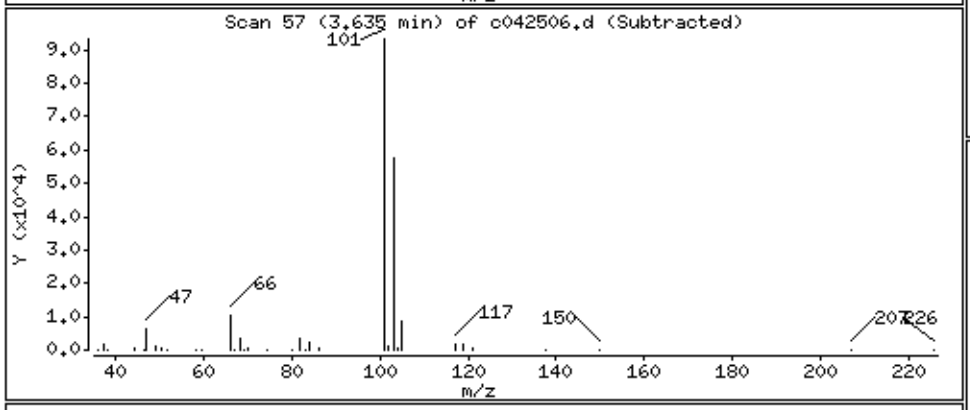
Column diameter: 0.53

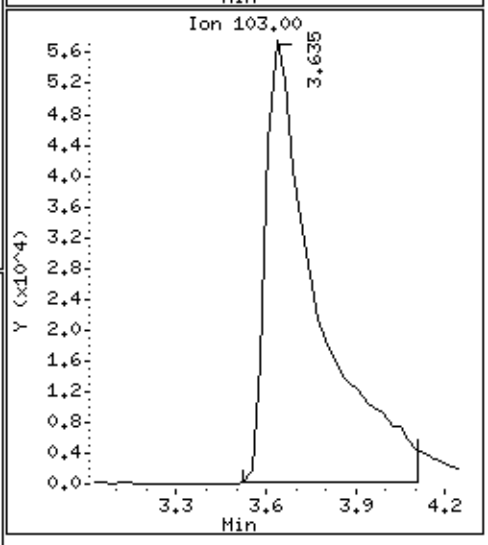
20 Trichlorofluoromethane/Fr11

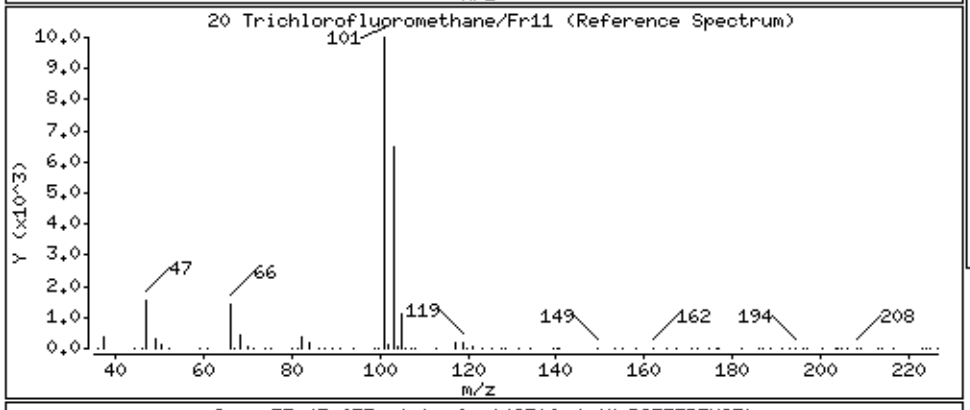
Concentration: 176.25 PPBV

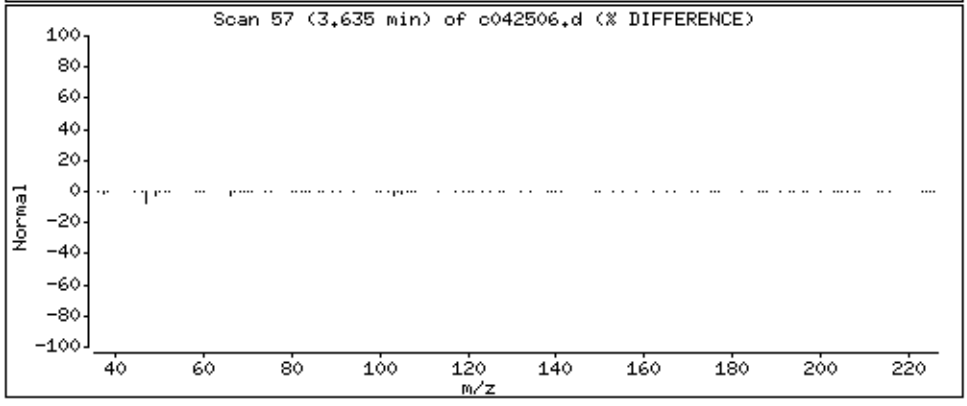












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

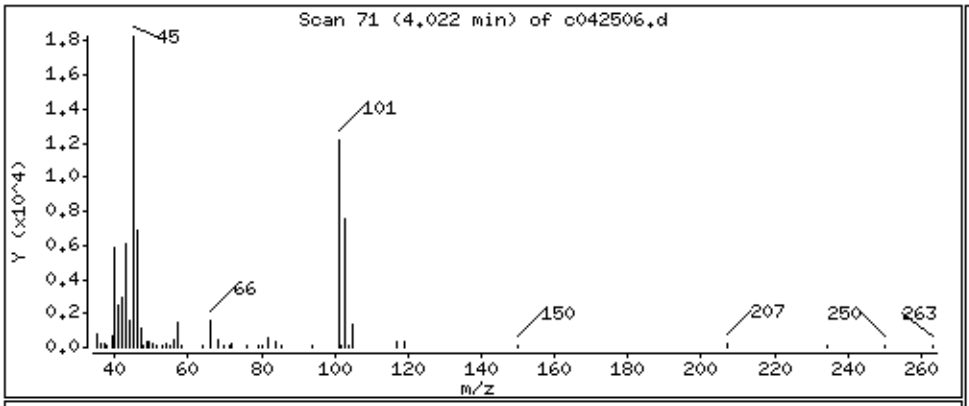
Operator: JP

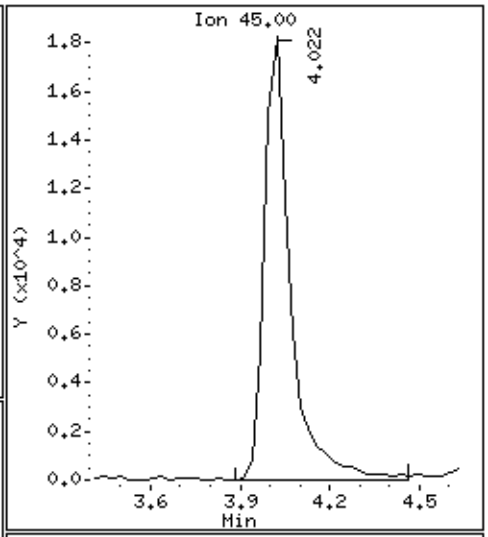
Column phase: RTx-624

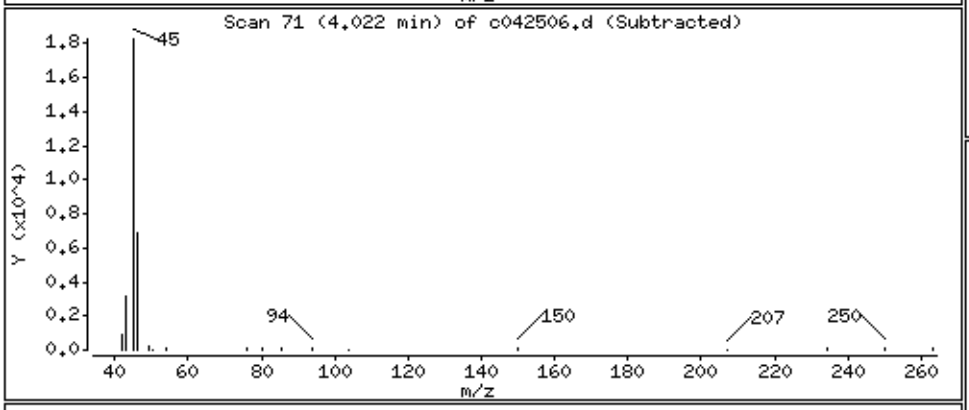
Column diameter: 0.53

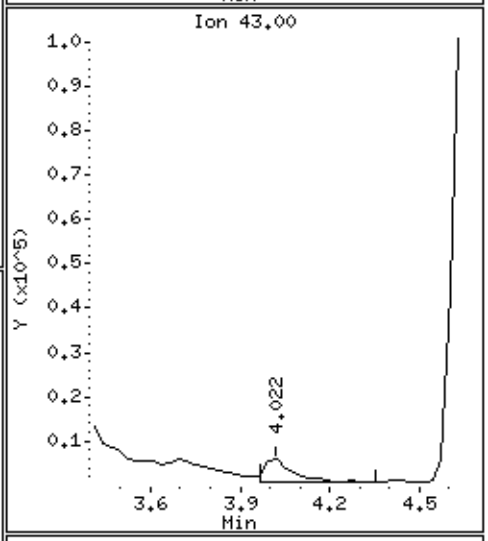
26 Ethanol

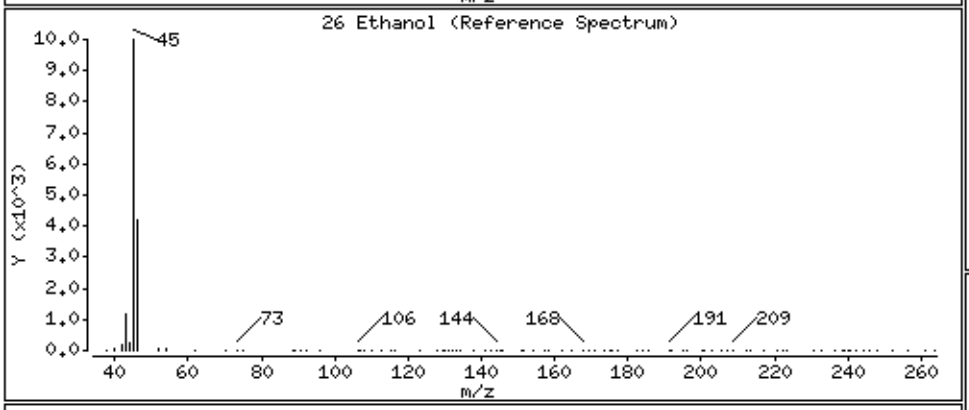
Concentration: 178.48 PPBV

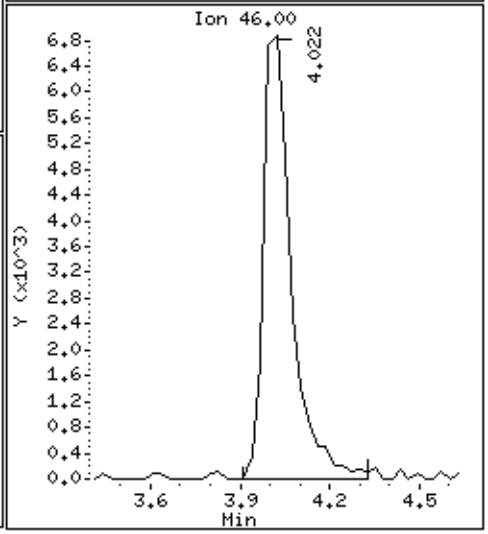


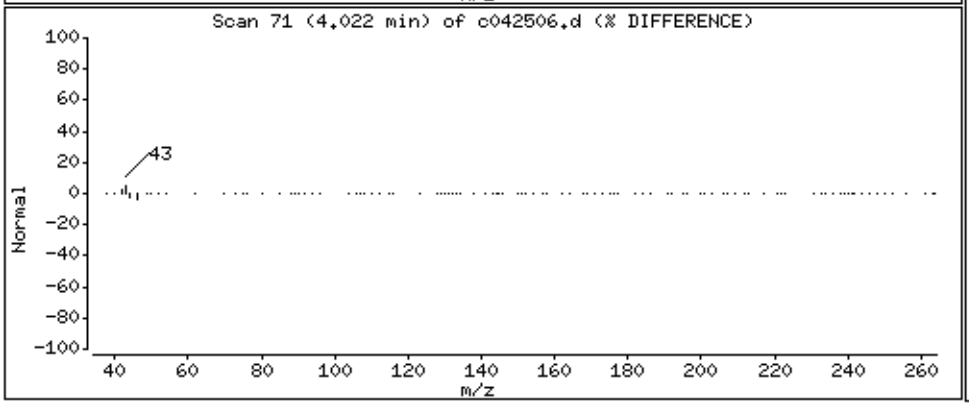












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

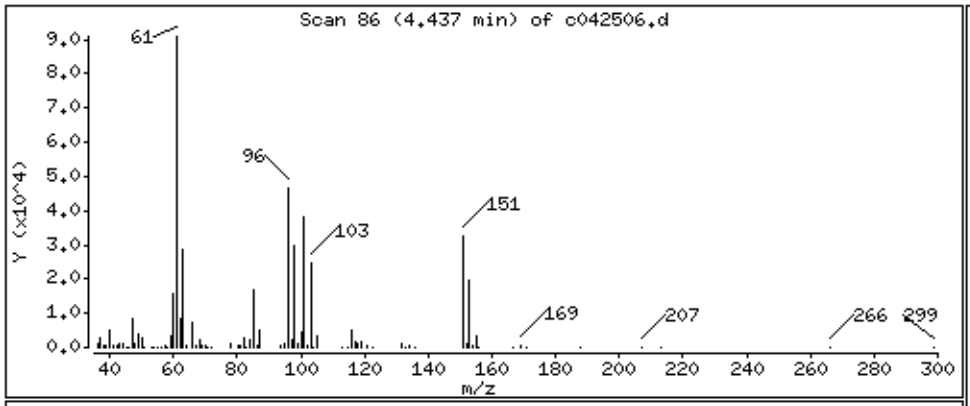
Operator: JP

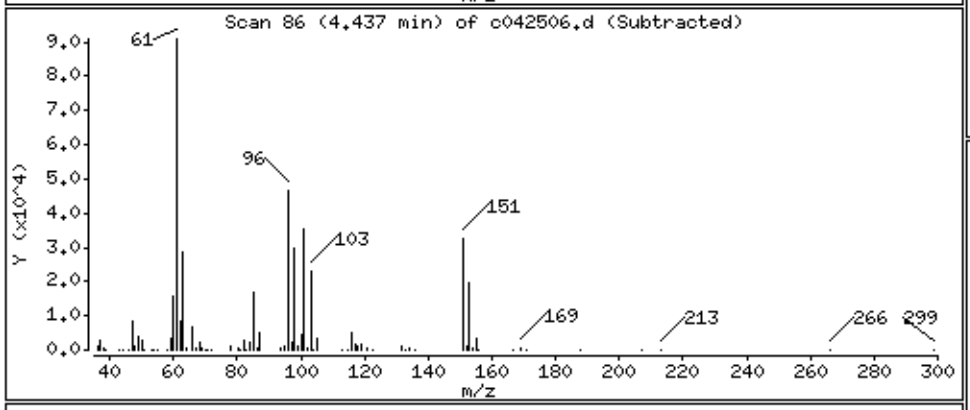
Column phase: RTx-624

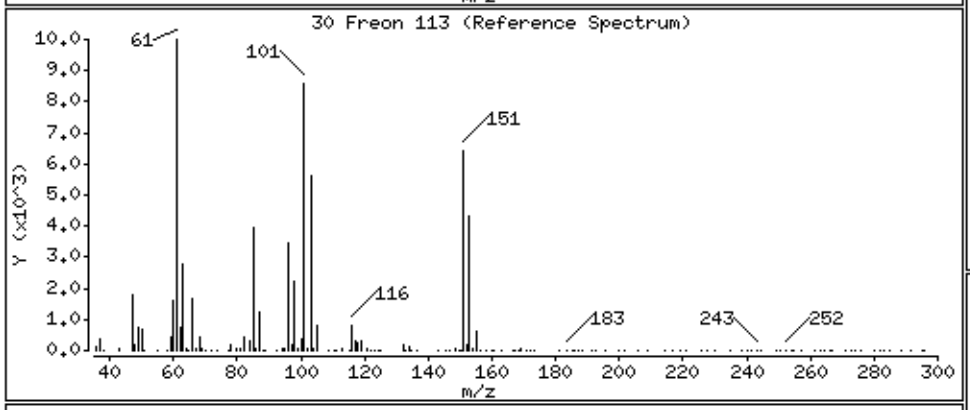
Column diameter: 0.53

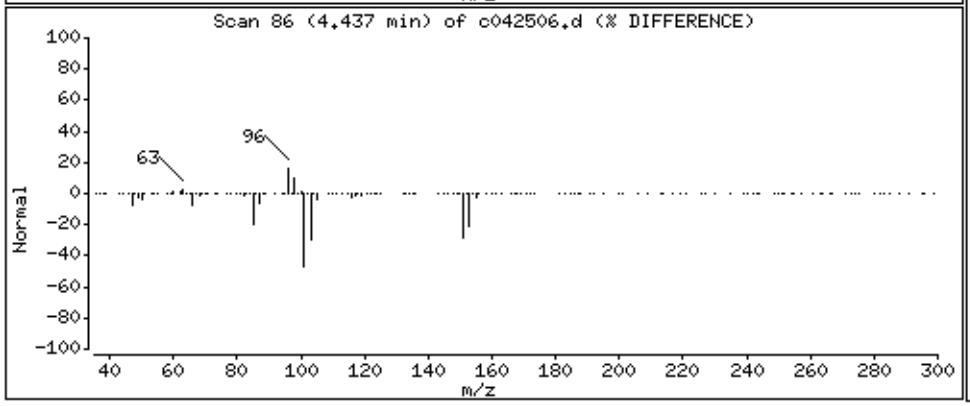
30 Freon 113

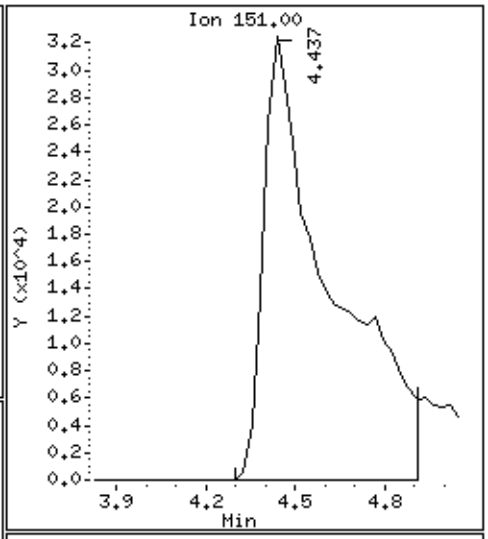
Concentration: 185.73 PPBV

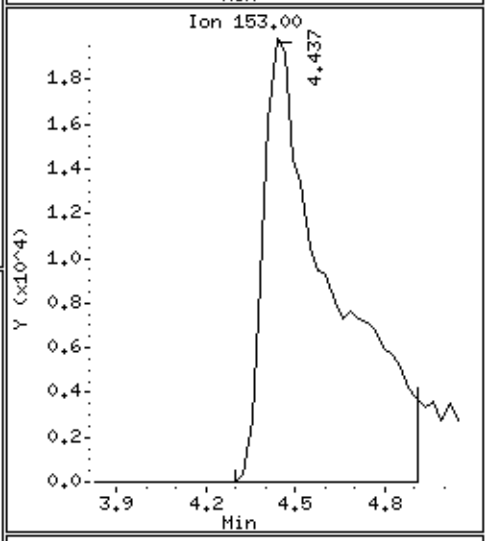


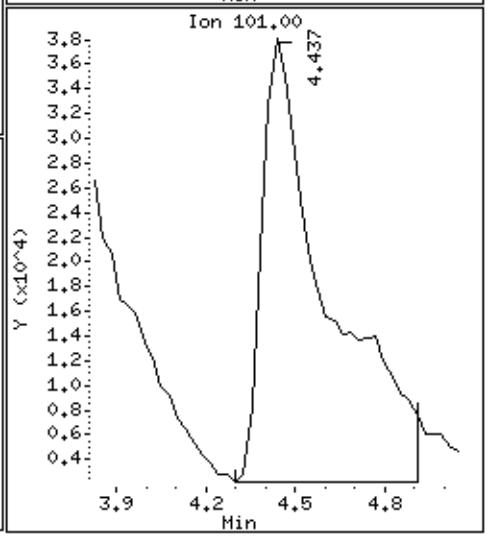












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

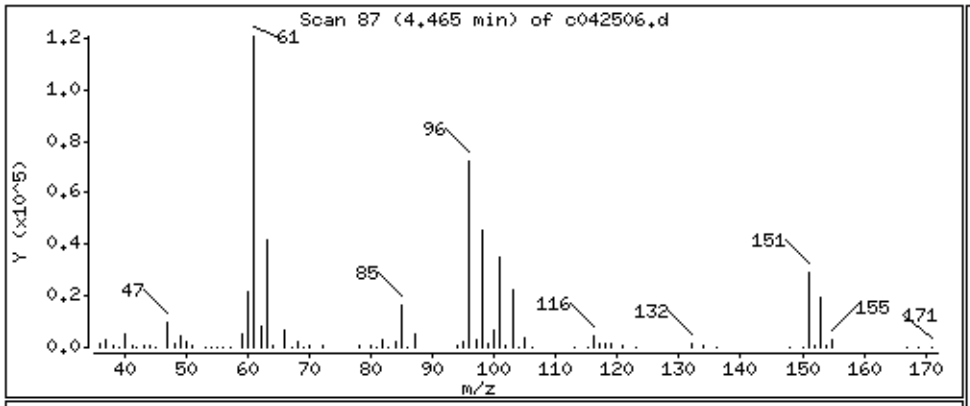
Operator: JP

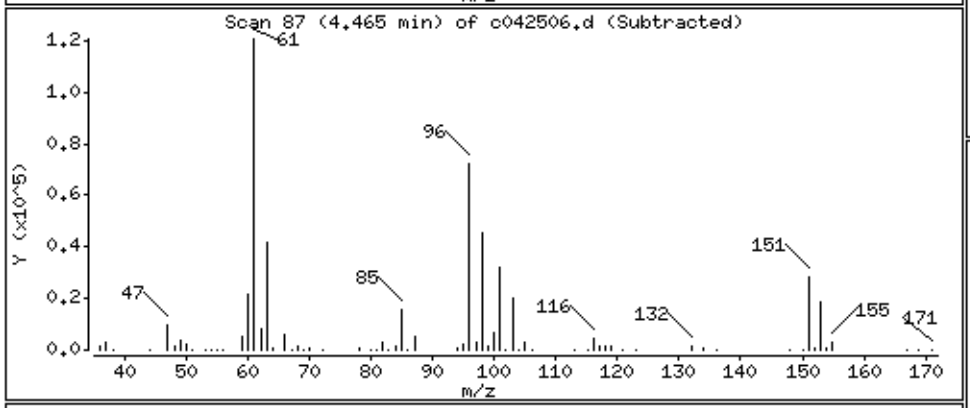
Column phase: RTx-624

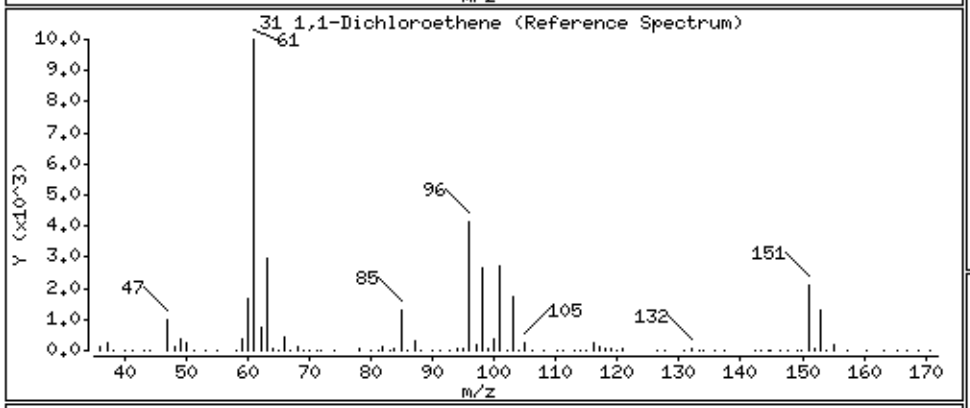
Column diameter: 0.53

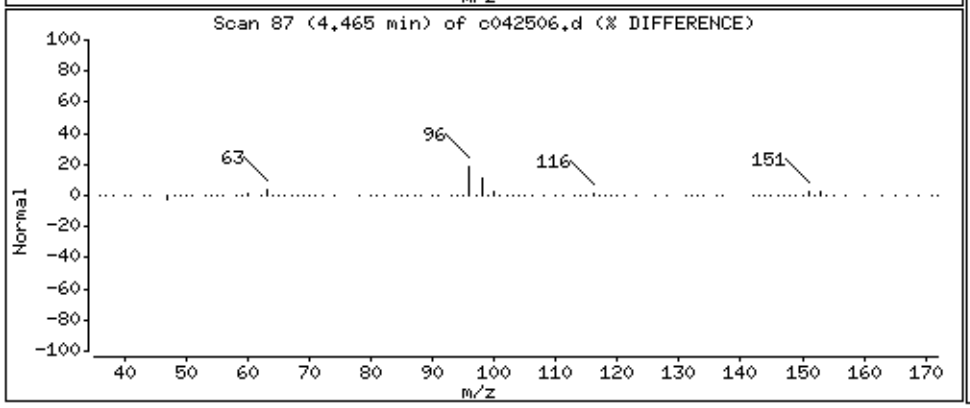
31 1,1-Dichloroethene

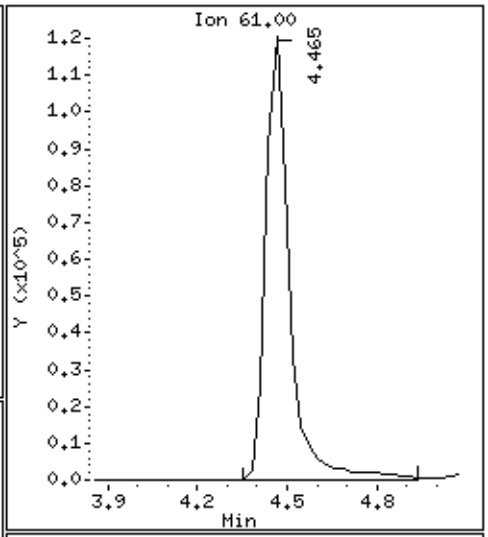
Concentration: 173.03 PPBV

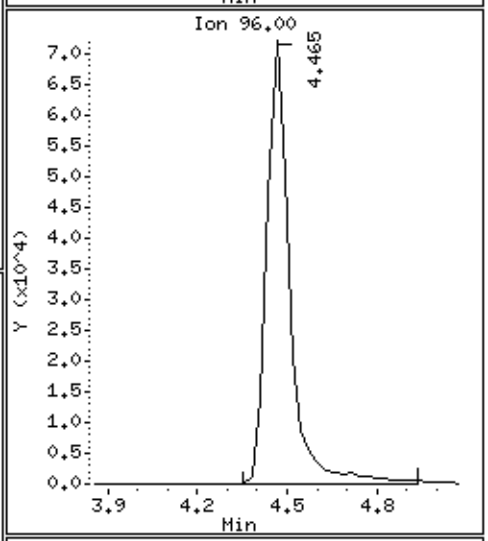


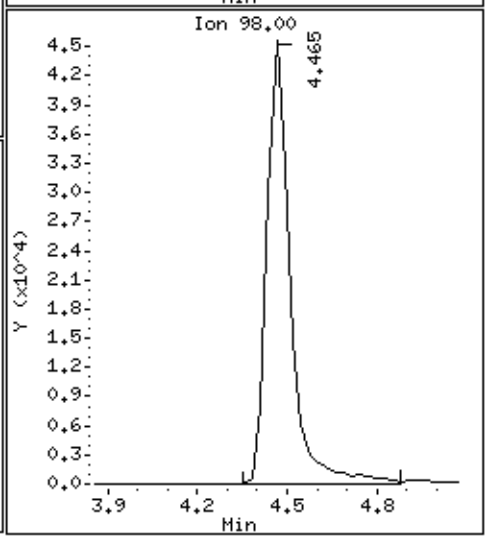












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

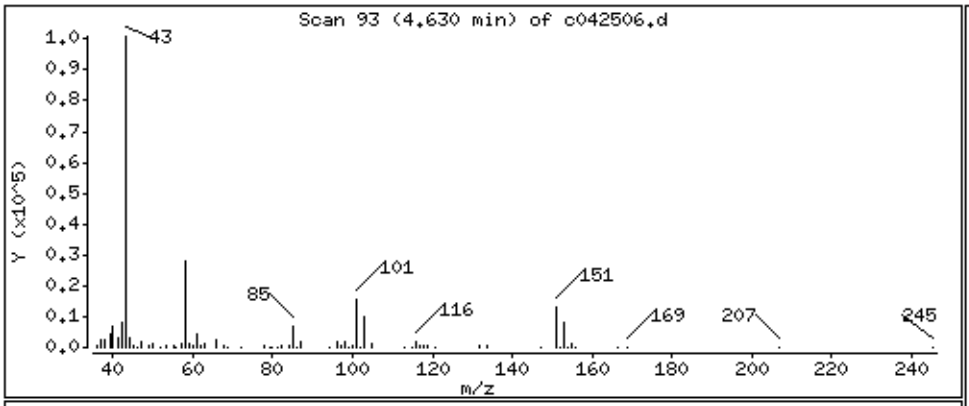
Operator: JP

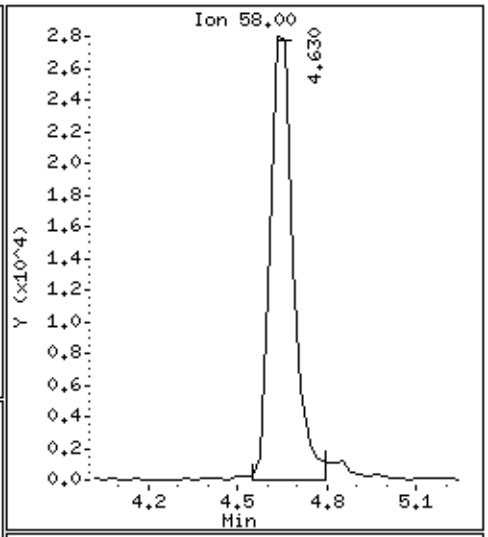
Column phase: RTx-624

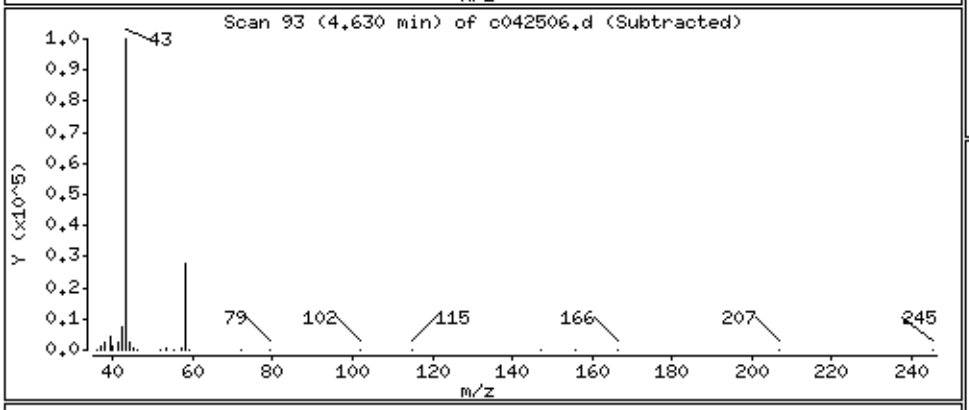
Column diameter: 0.53

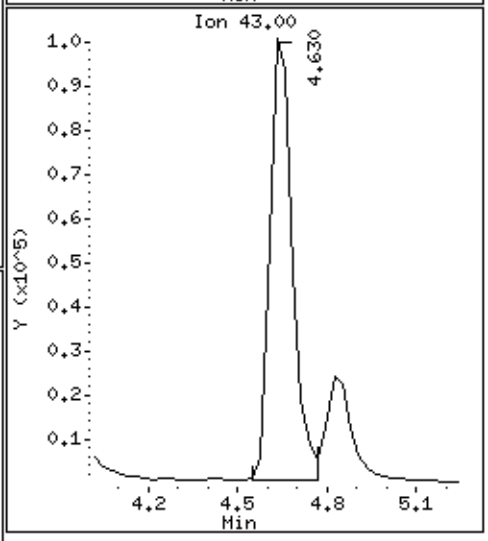
32 Acetone

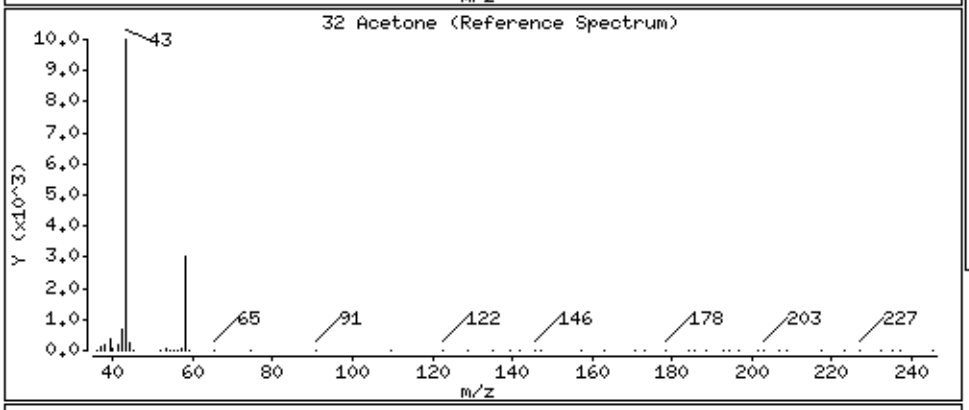
Concentration: 169.51 PPBV

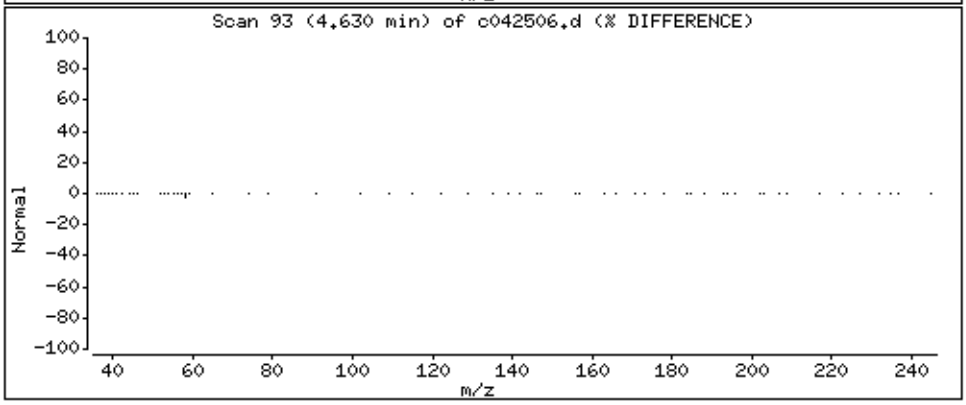












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

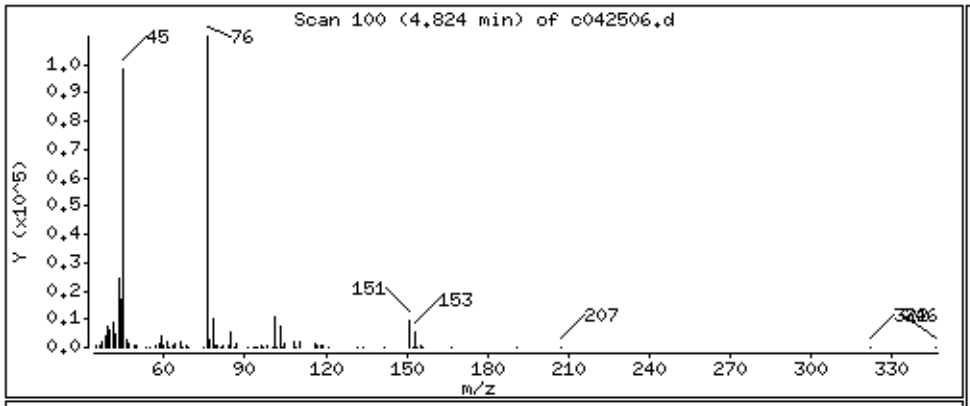
Operator: JP

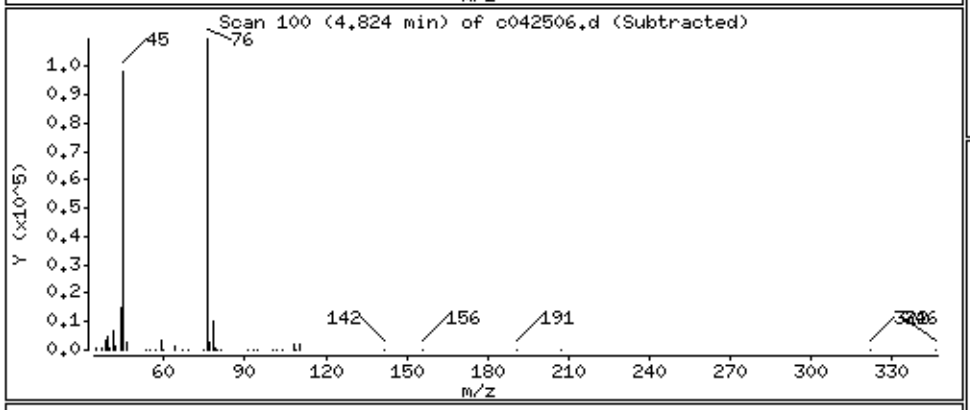
Column phase: RTx-624

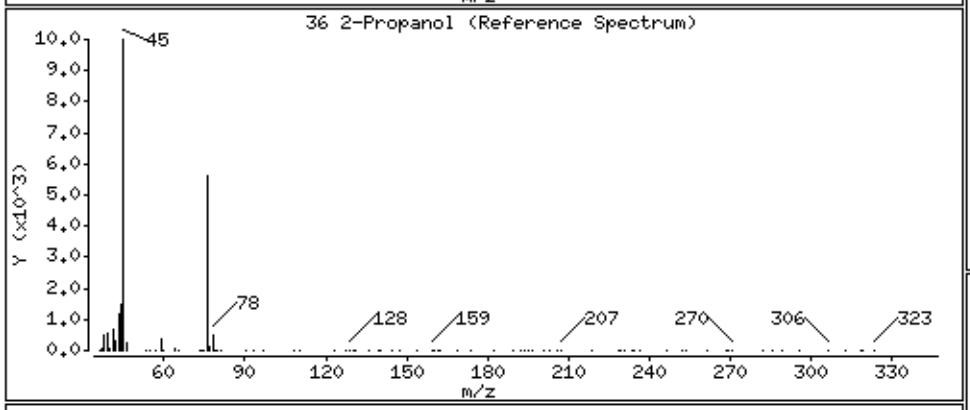
Column diameter: 0.53

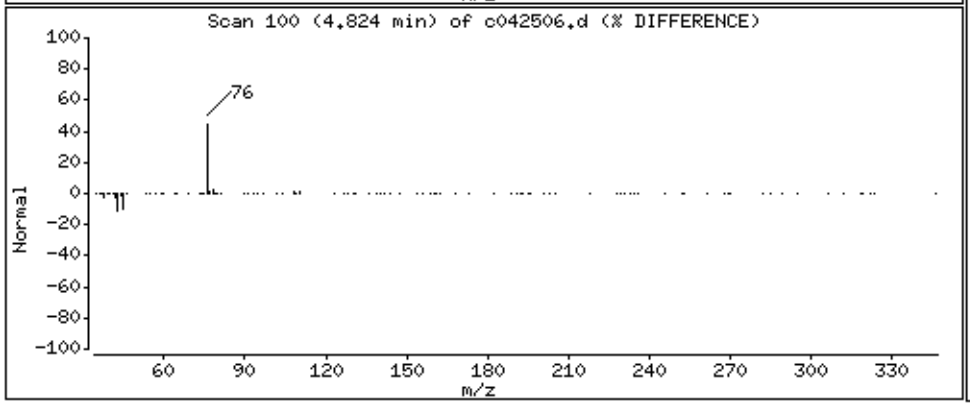
36 2-Propanol

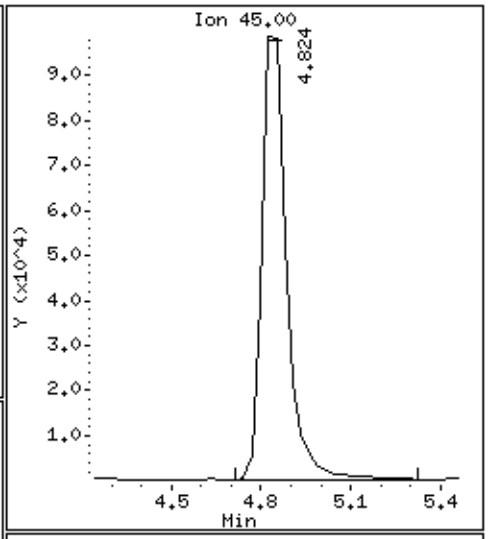
Concentration: 188.27 PPBV

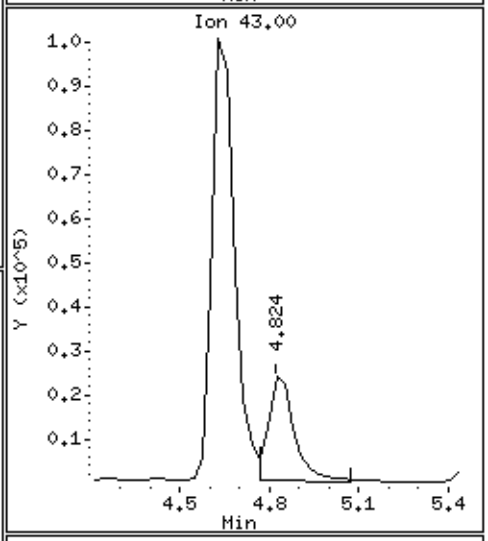


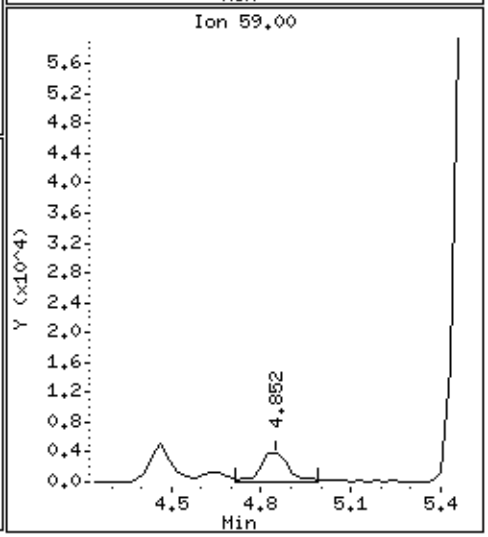












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

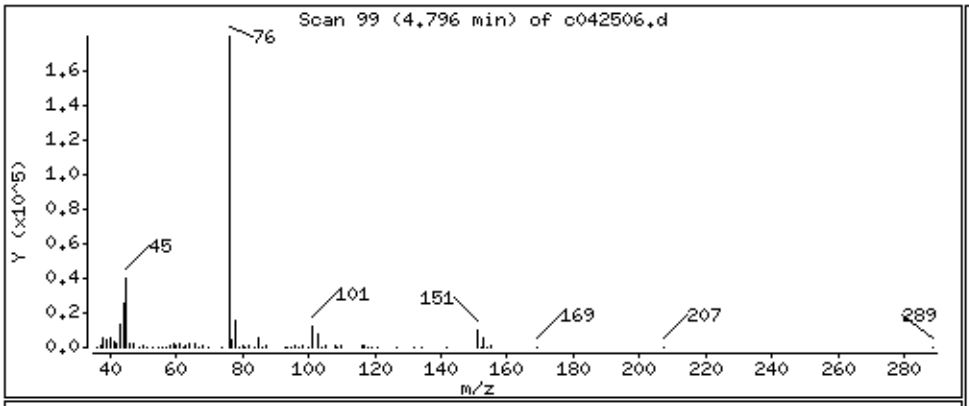
Operator: JP

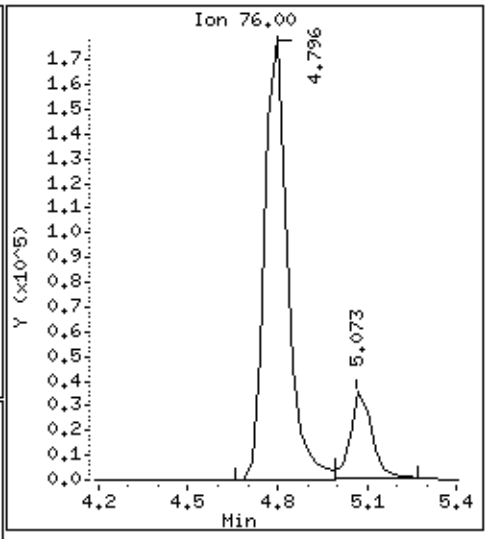
Column phase: RTx-624

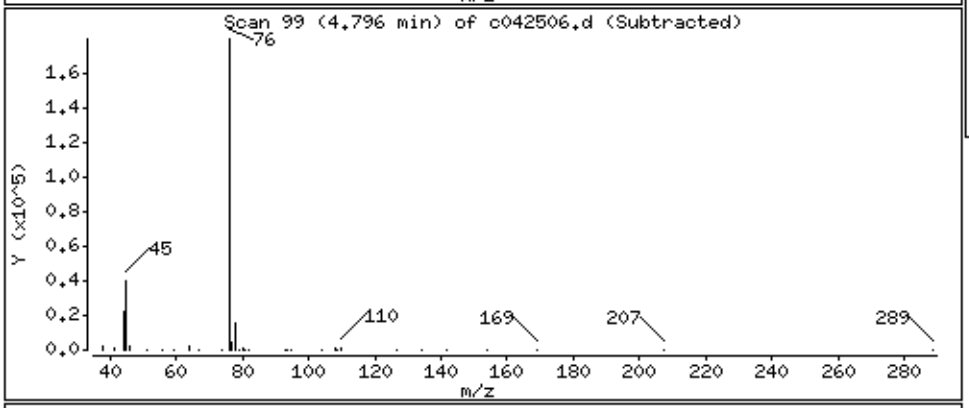
Column diameter: 0.53

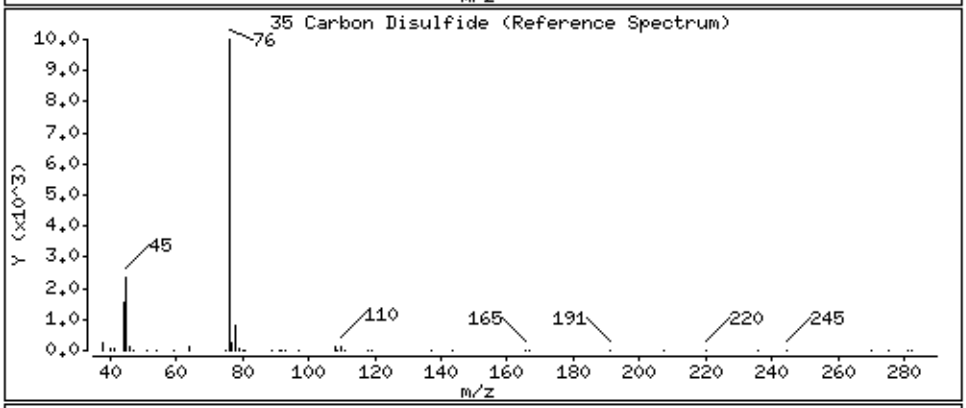
35 Carbon Disulfide

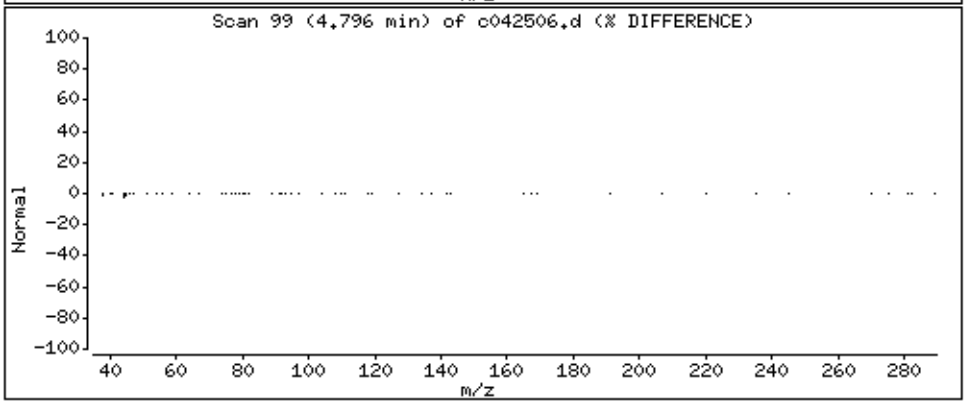
Concentration: 187.93 PPBV











Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

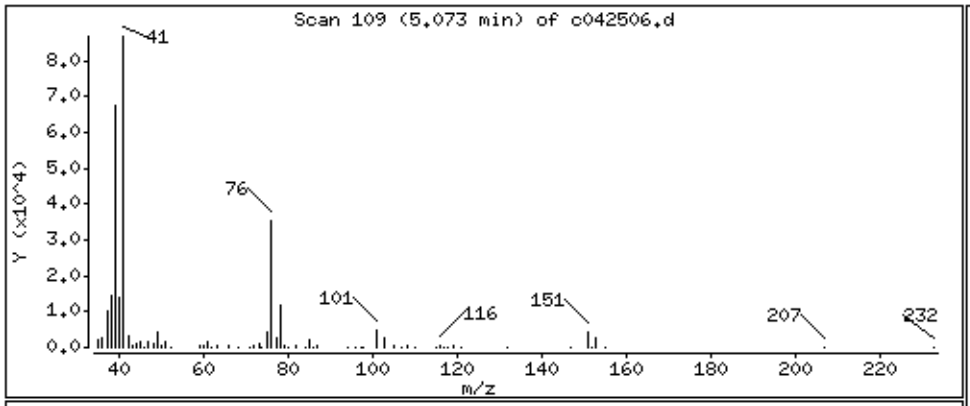
Operator: JP

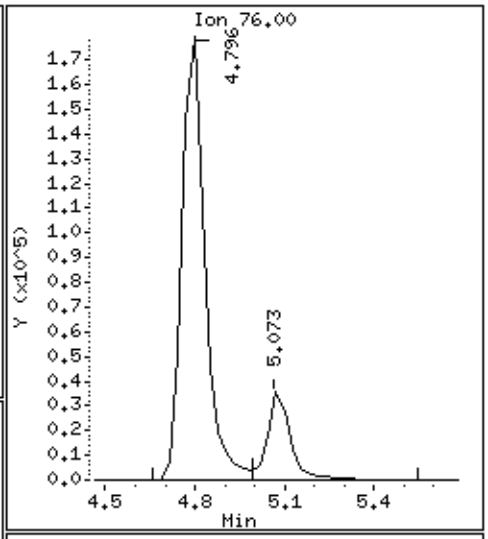
Column phase: RTx-624

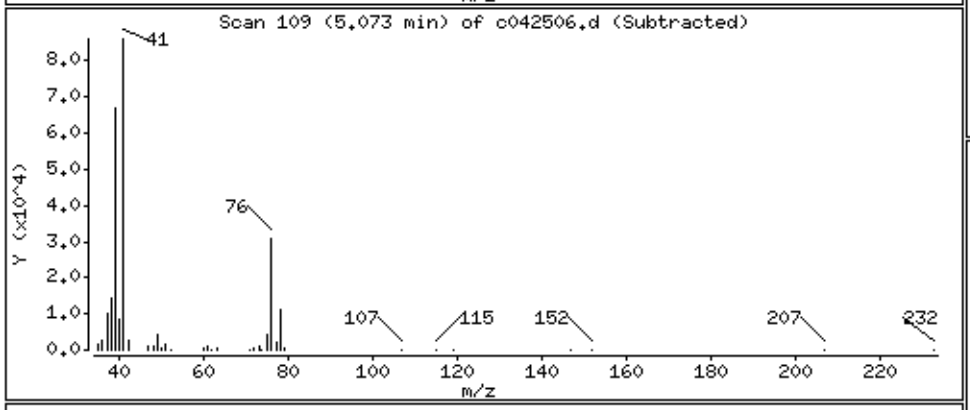
Column diameter: 0.53

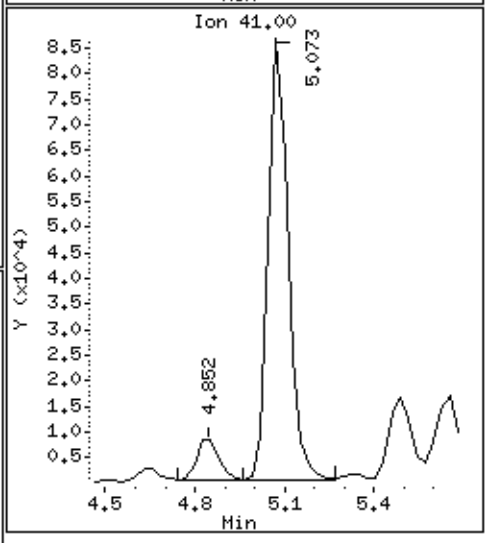
38 3-Chloropropene

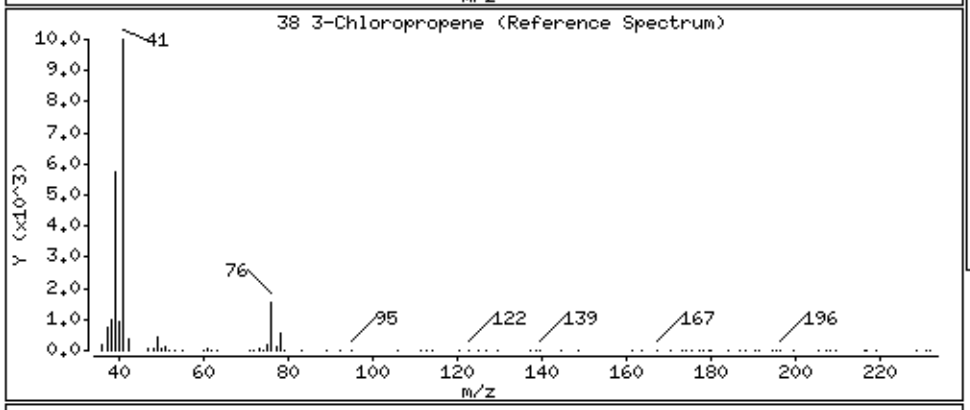
Concentration: 166.65 PPBV

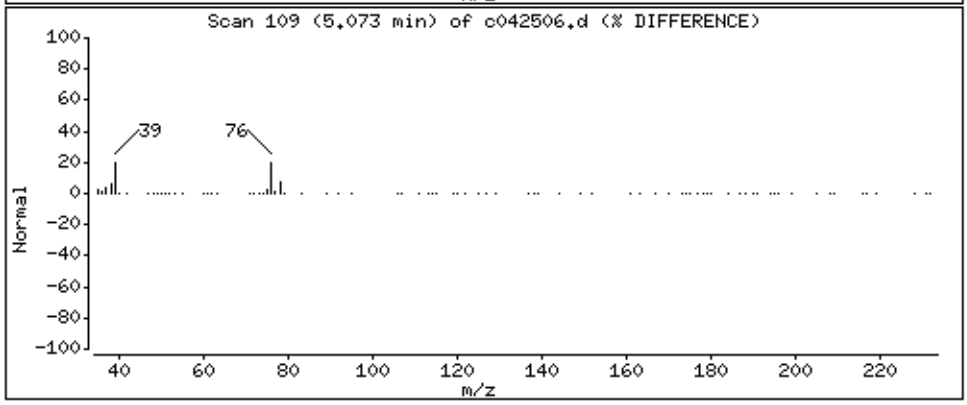












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

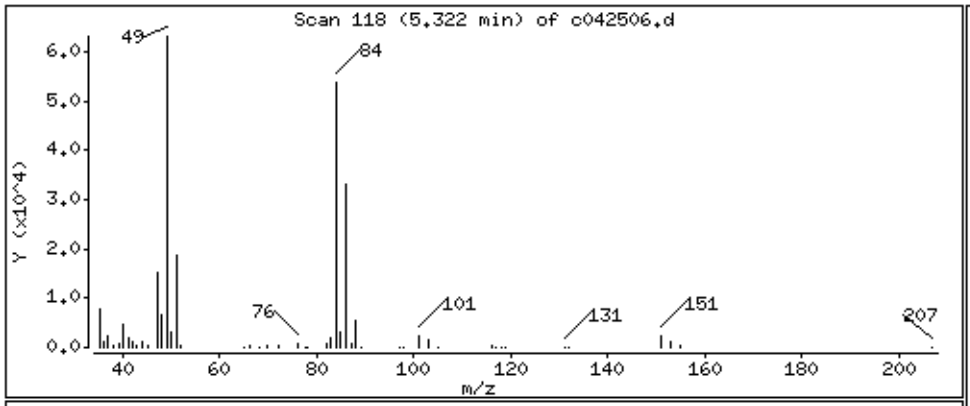
Operator: JP

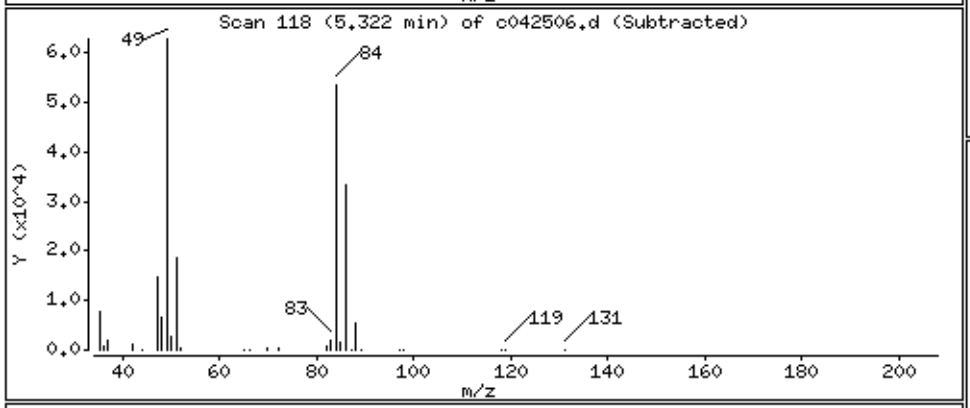
Column phase: RTx-624

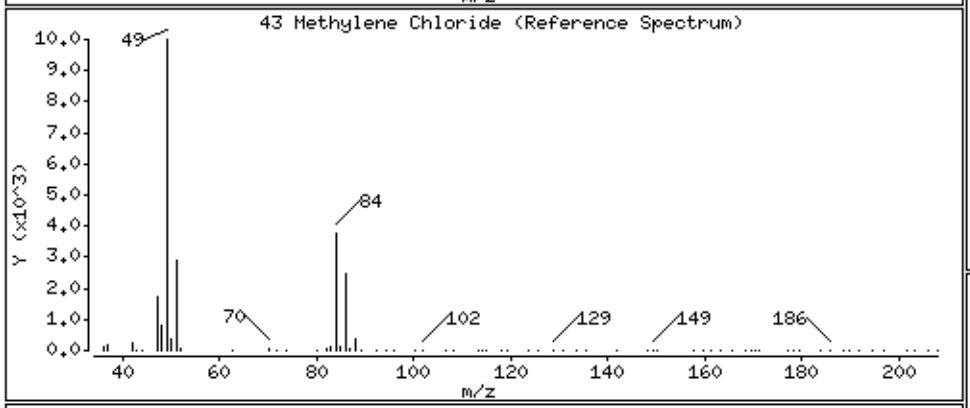
Column diameter: 0.53

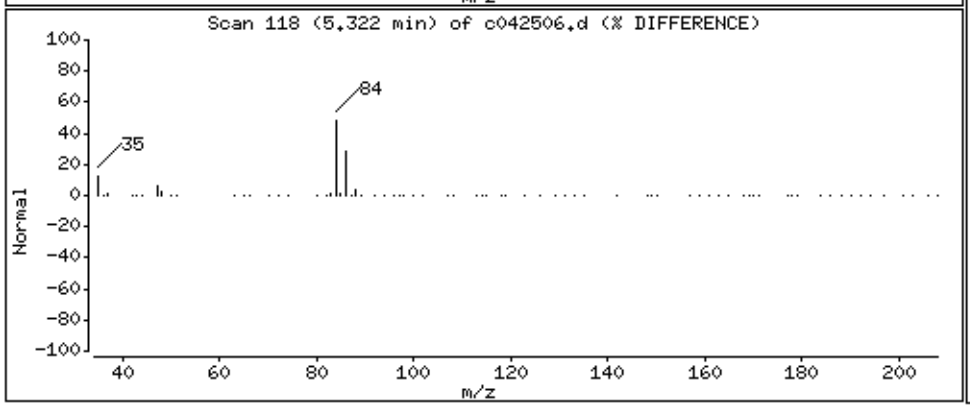
43 Methylene Chloride

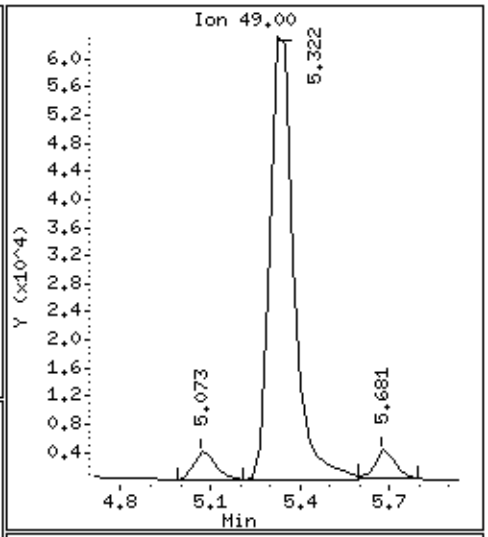
Concentration: 164.24 PPBV

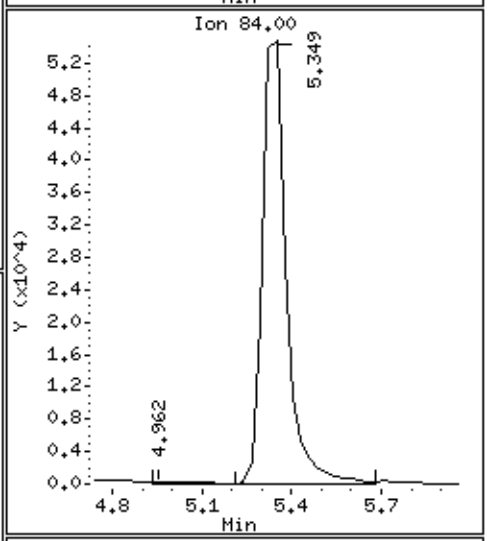


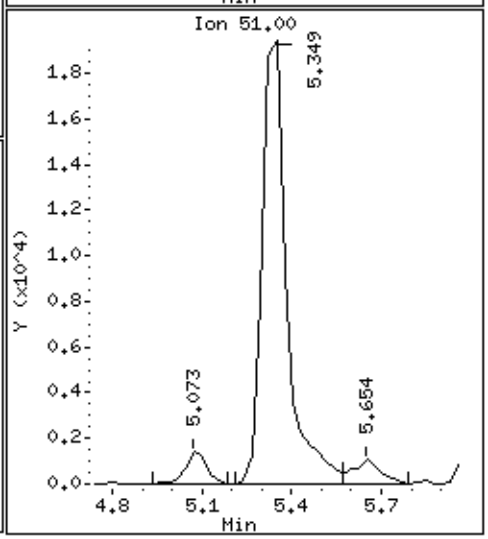












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

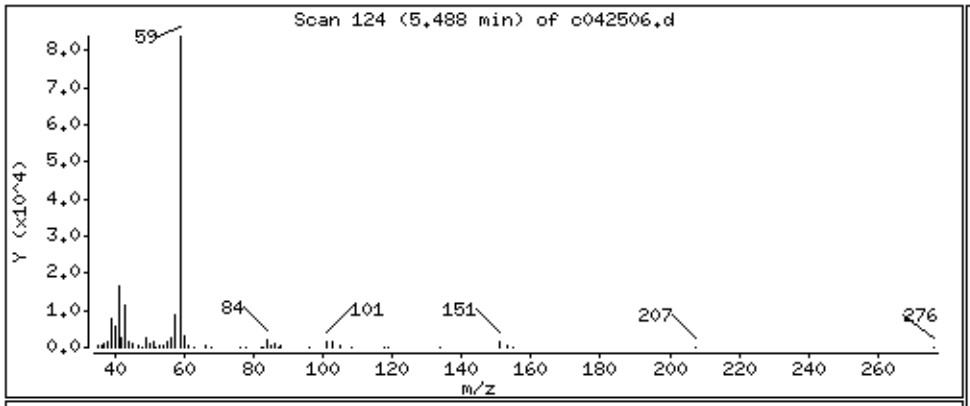
Operator: JP

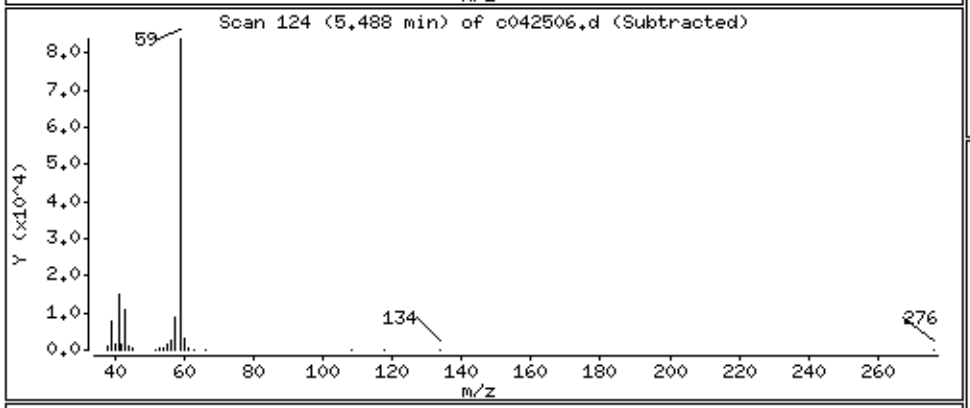
Column phase: RTx-624

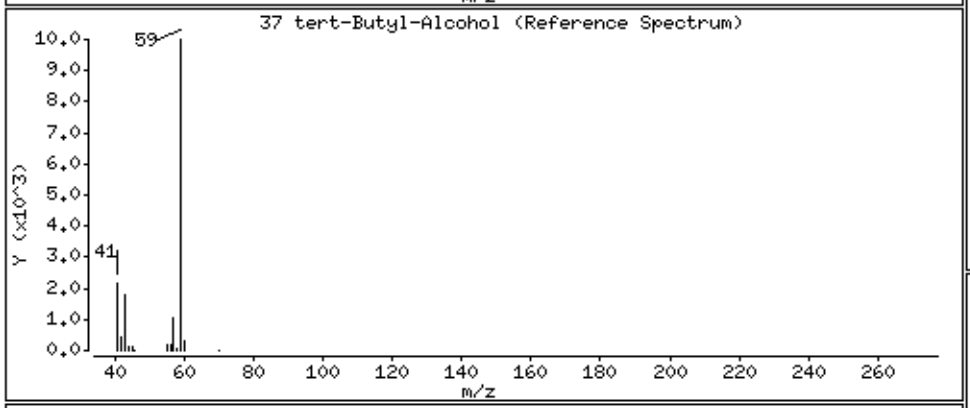
Column diameter: 0.53

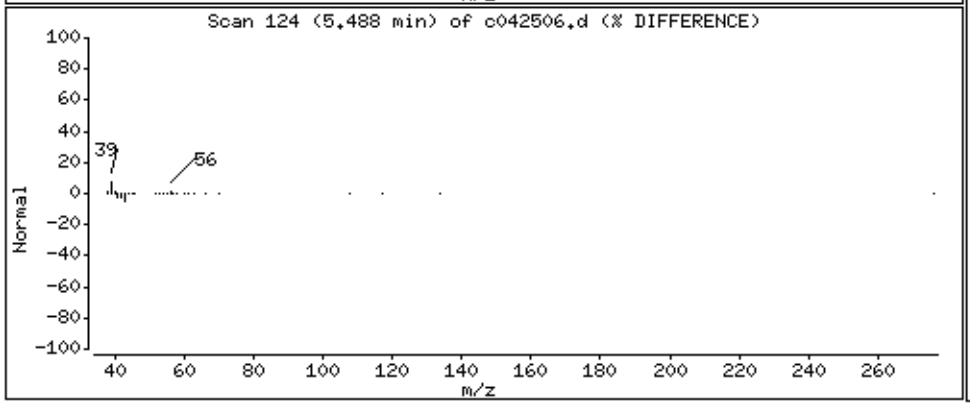
37 tert-Butyl-Alcohol

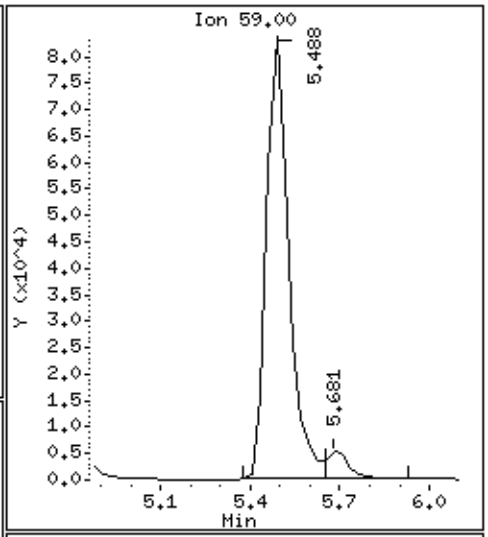
Concentration: 176.77 PPBV

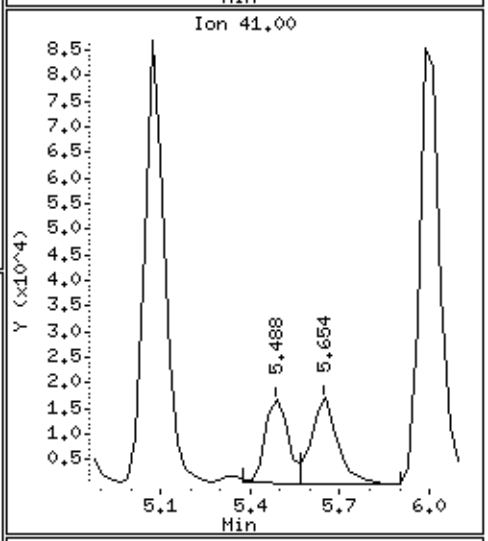


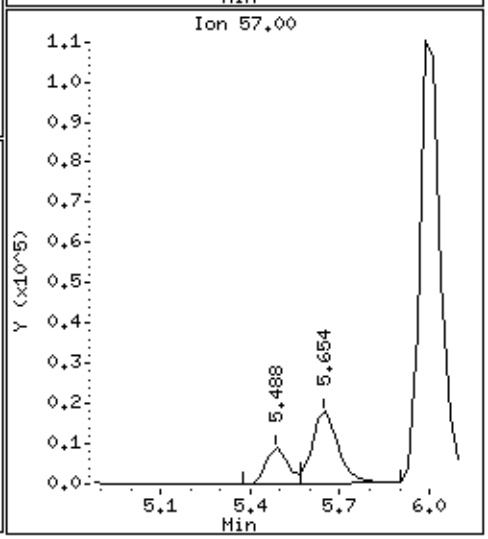












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

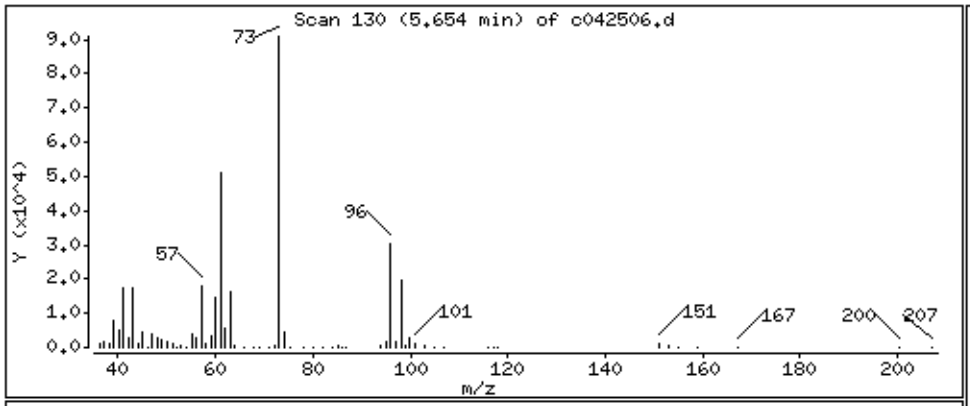
Operator: JP

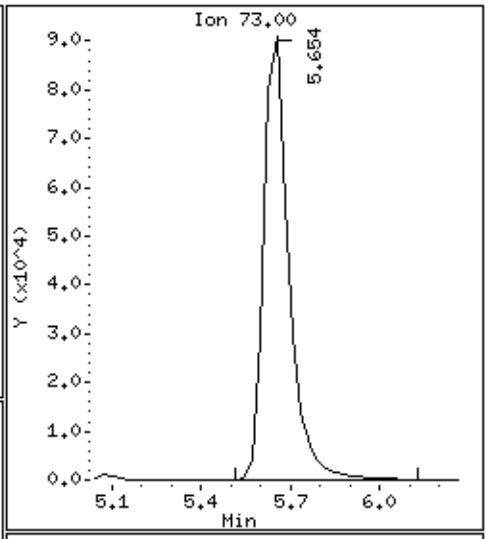
Column phase: RTx-624

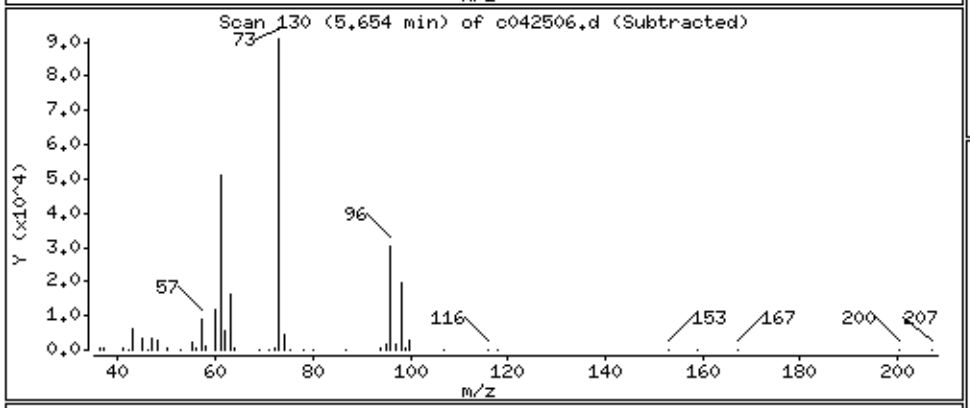
Column diameter: 0.53

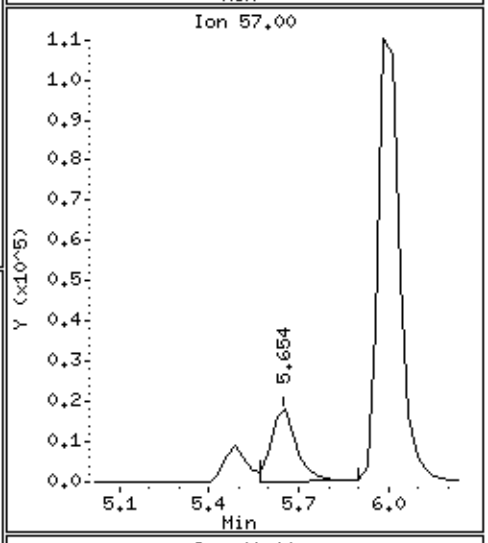
46 MTBE

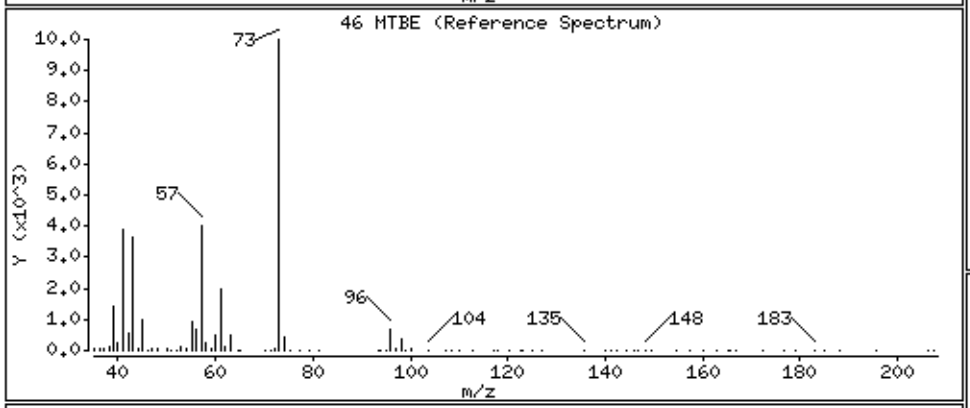
Concentration: 217.25 PPBV

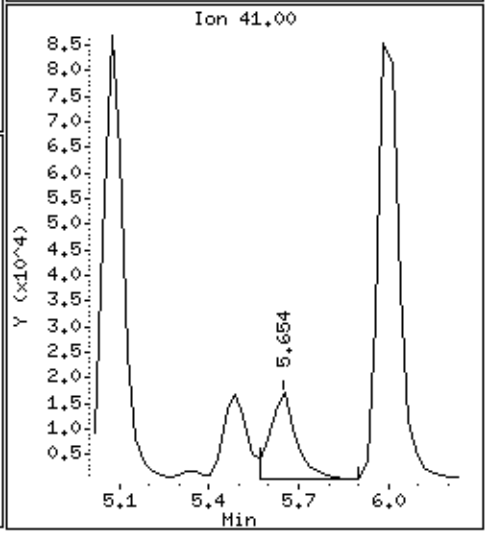


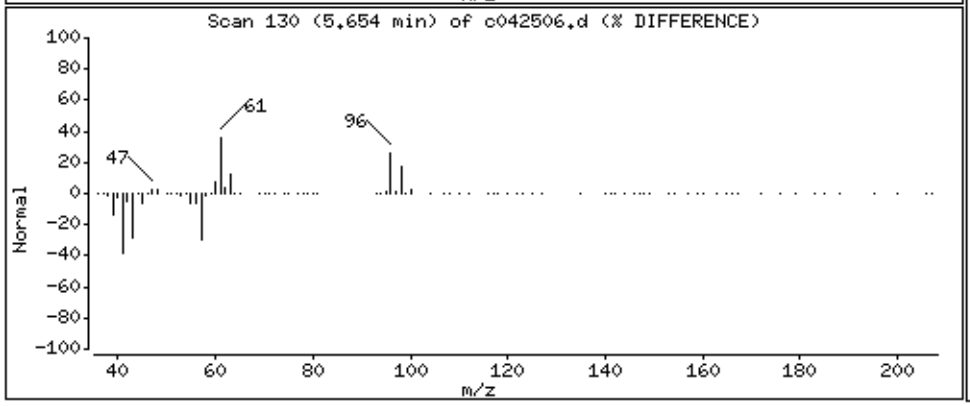












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

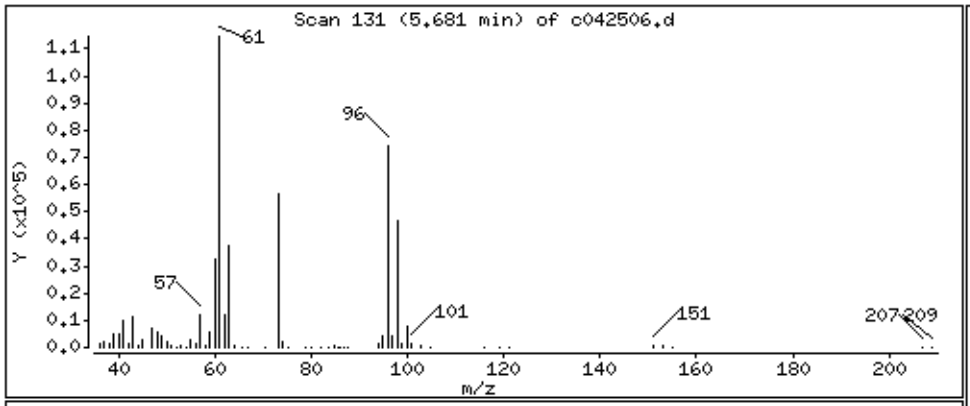
Operator: JP

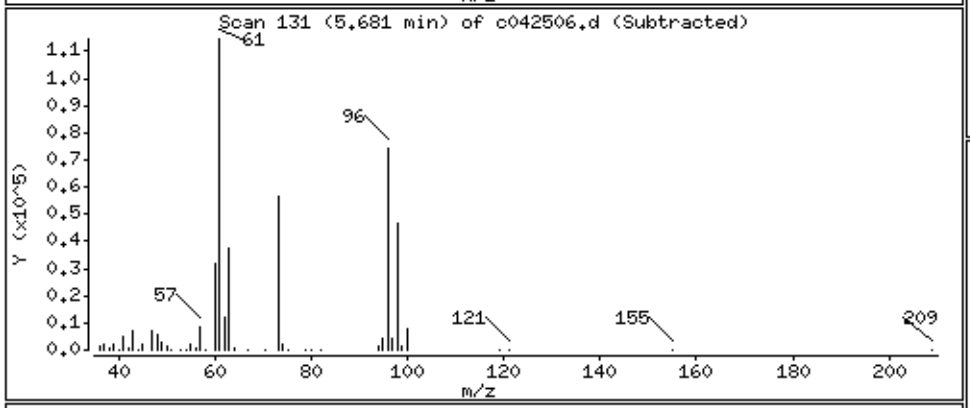
Column phase: RTx-624

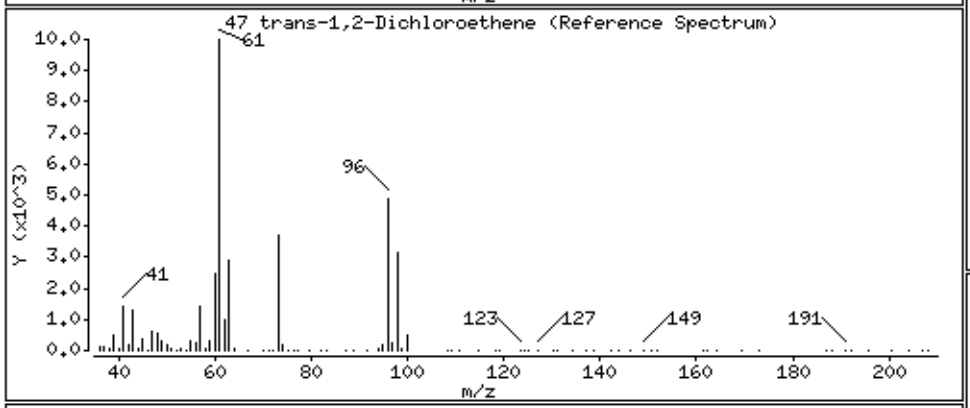
Column diameter: 0.53

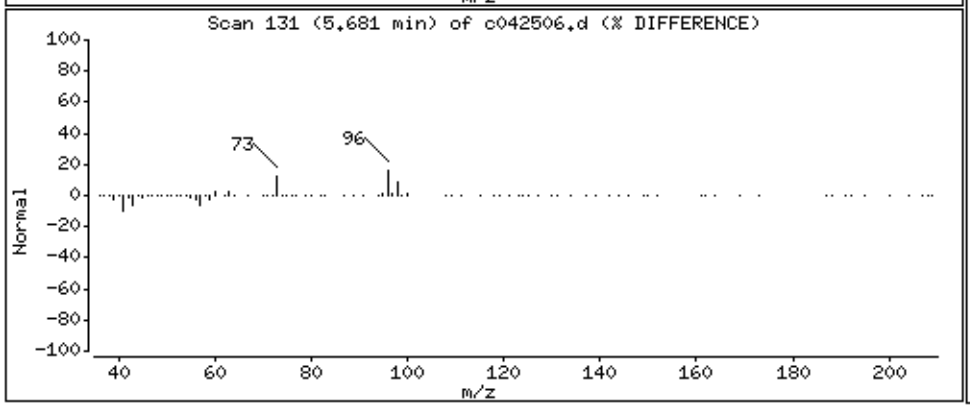
47 trans-1,2-Dichloroethene

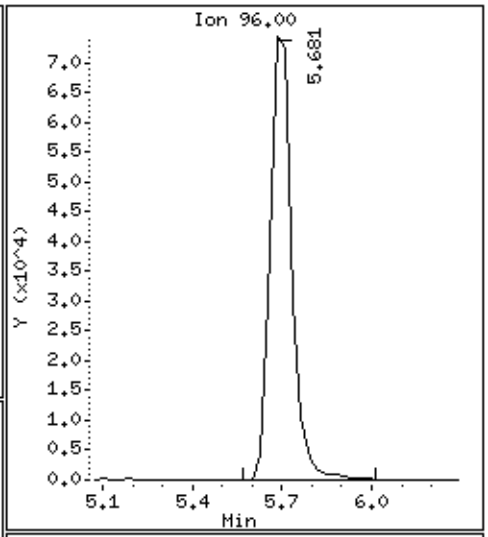
Concentration: 178.79 PPBV

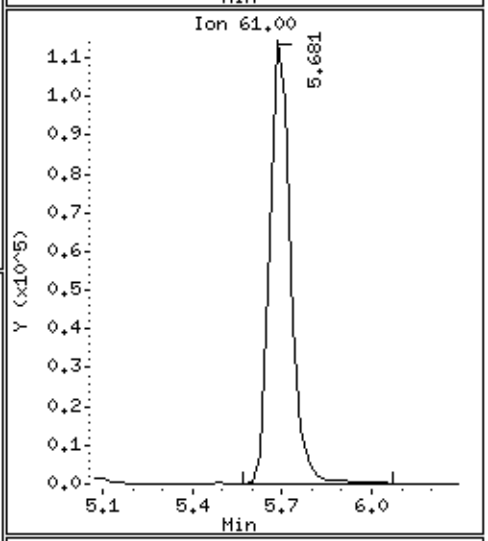


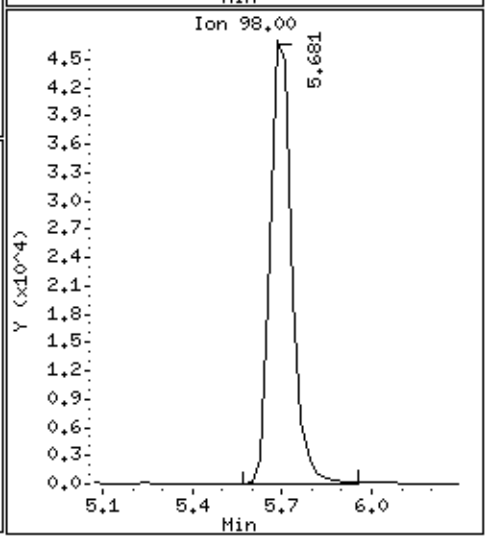












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

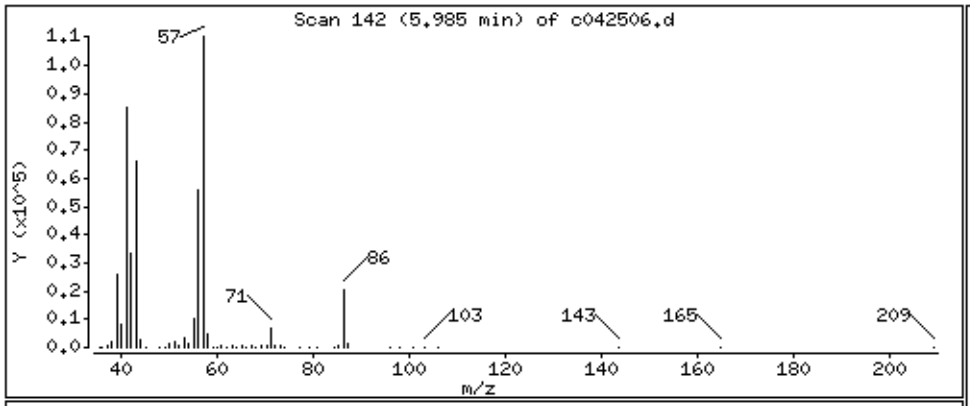
Operator: JP

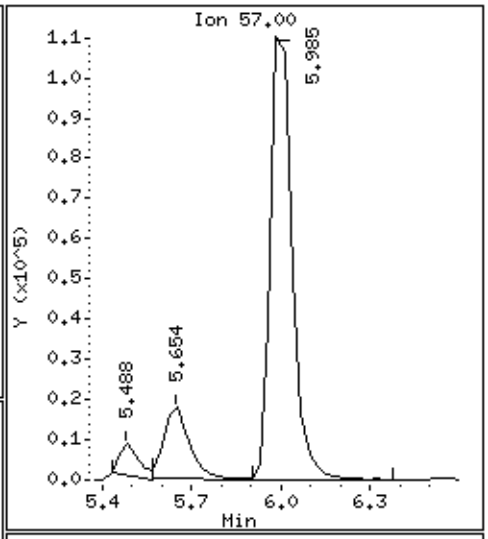
Column phase: RTx-624

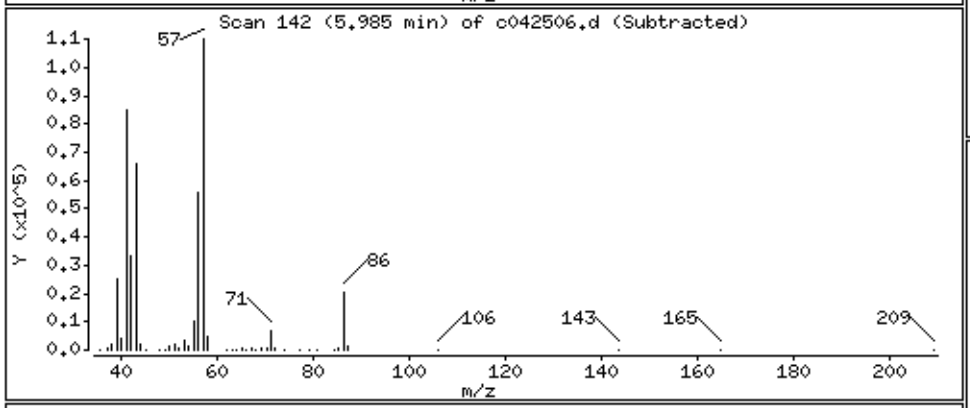
Column diameter: 0.53

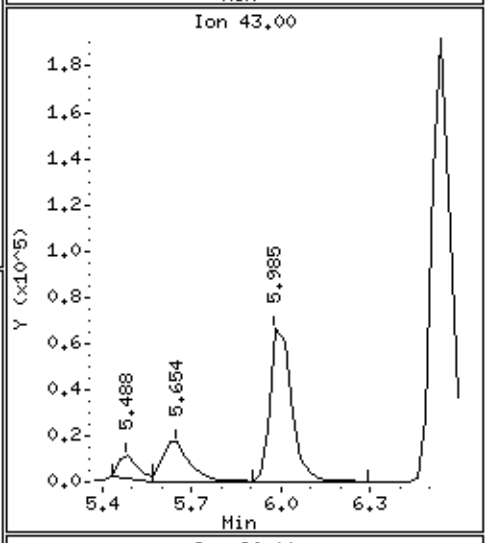
51 Hexane

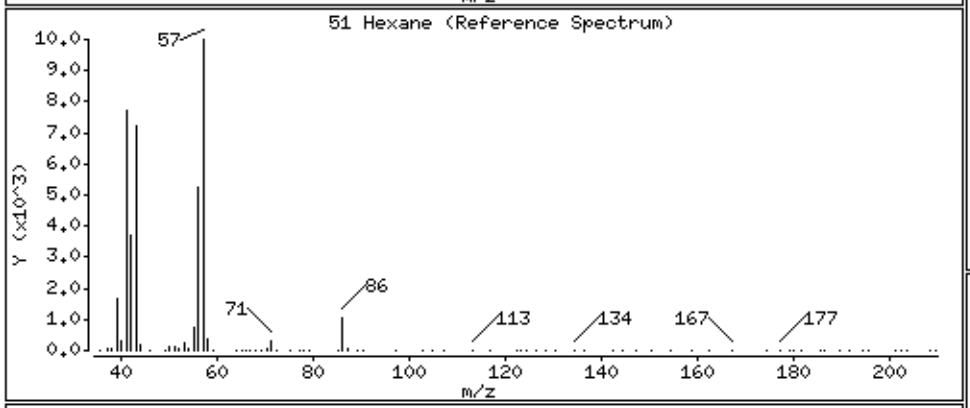
Concentration: 173.93 PPBV

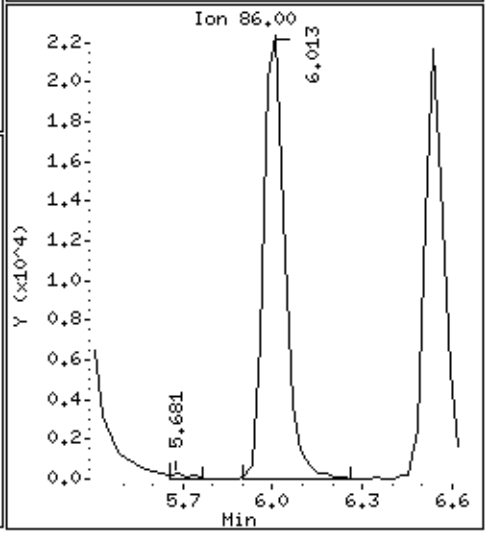


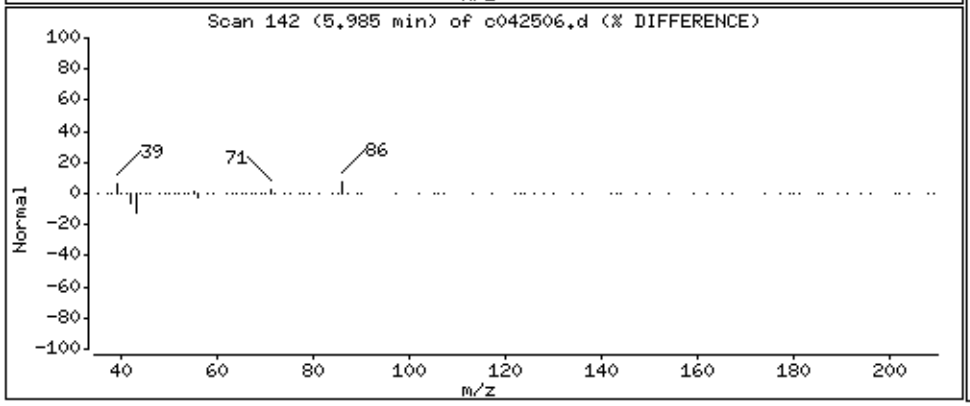












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

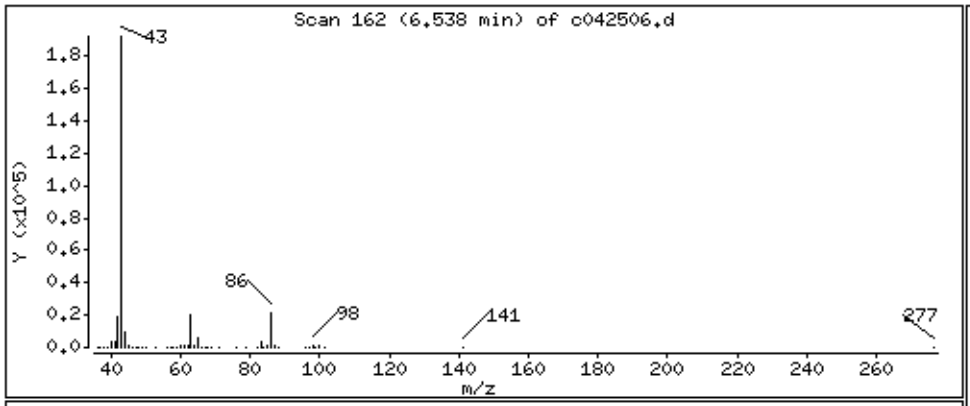
Operator: JP

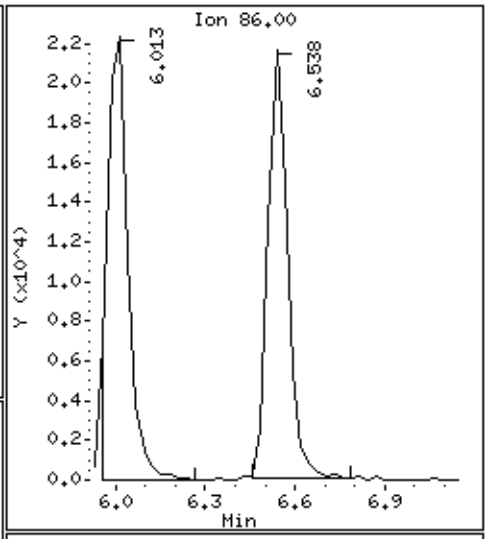
Column phase: RTx-624

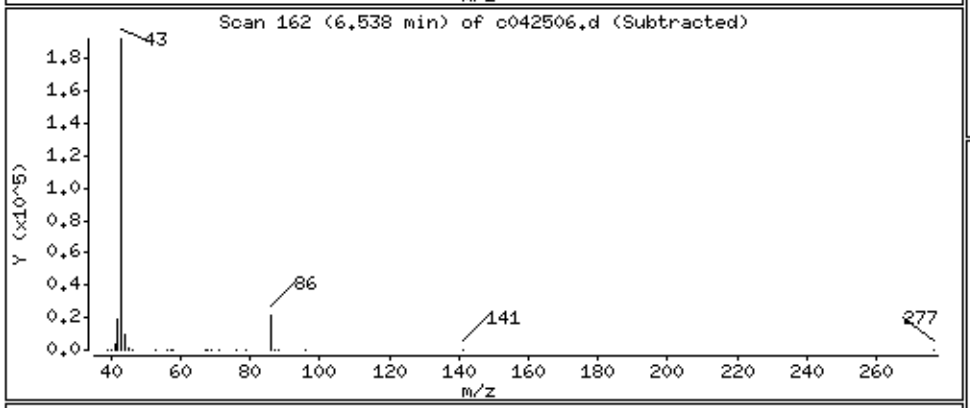
Column diameter: 0.53

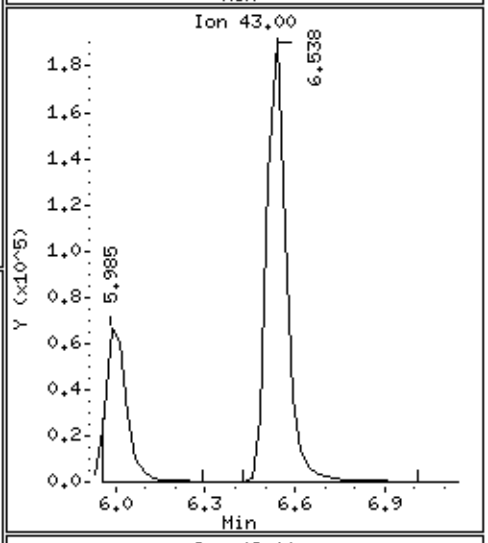
56 Vinyl Acetate

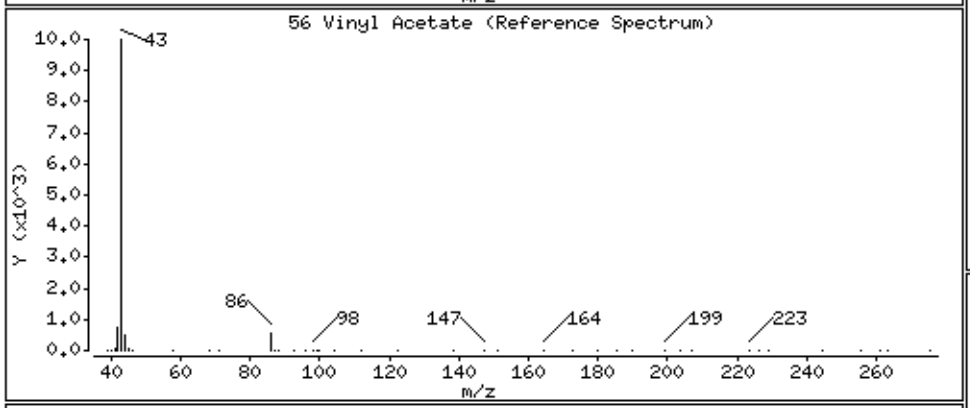
Concentration: 173.73 PPBV

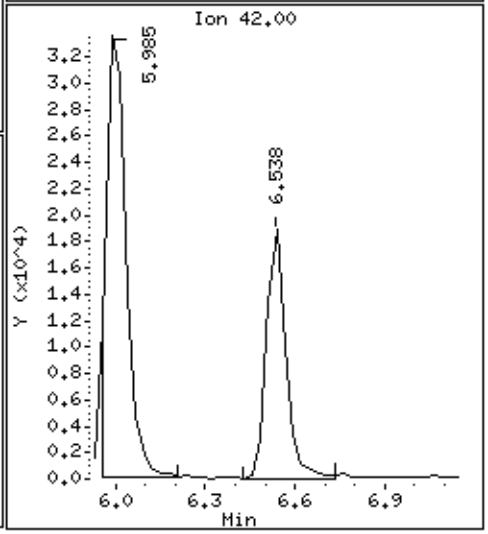


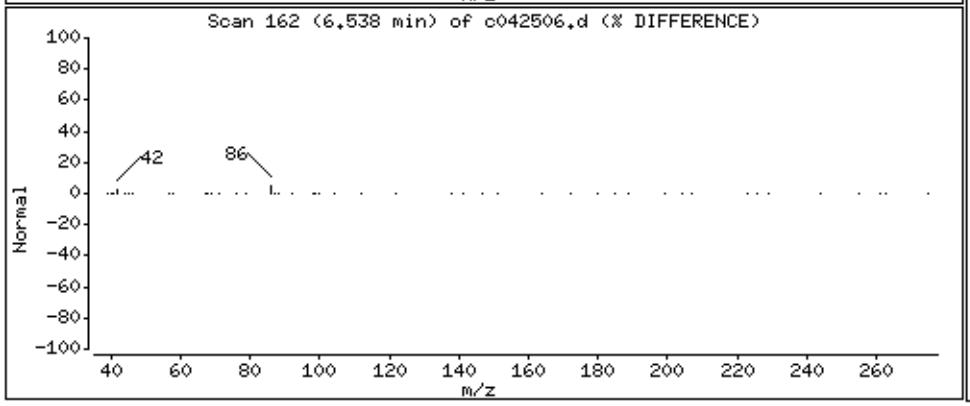












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

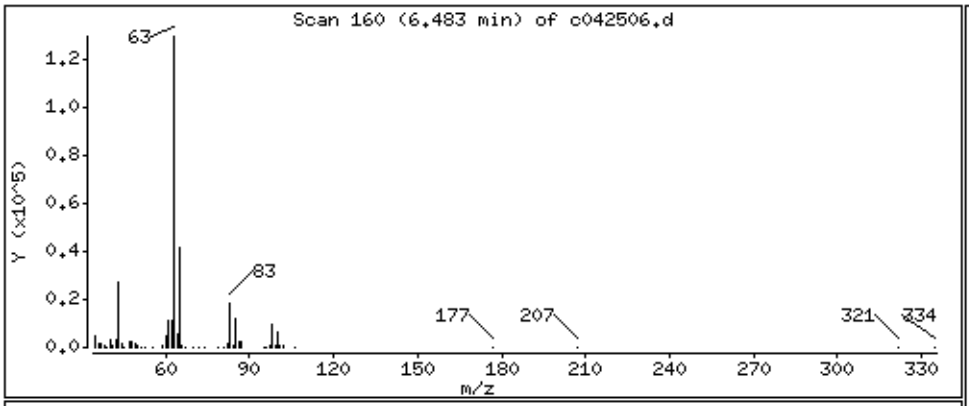
Operator: JP

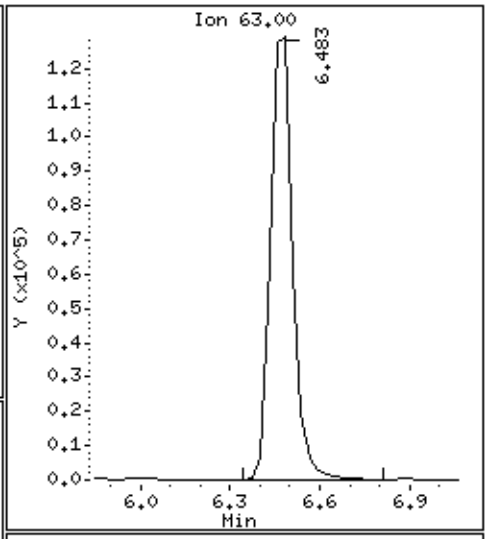
Column phase: RTx-624

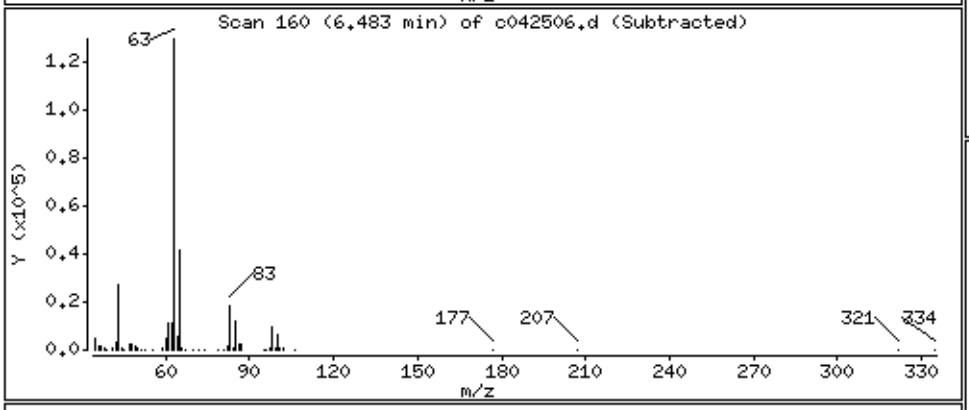
Column diameter: 0.53

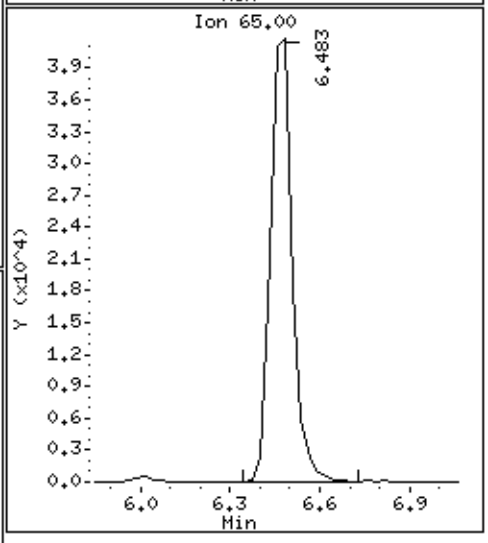
55 1,1-Dichloroethane

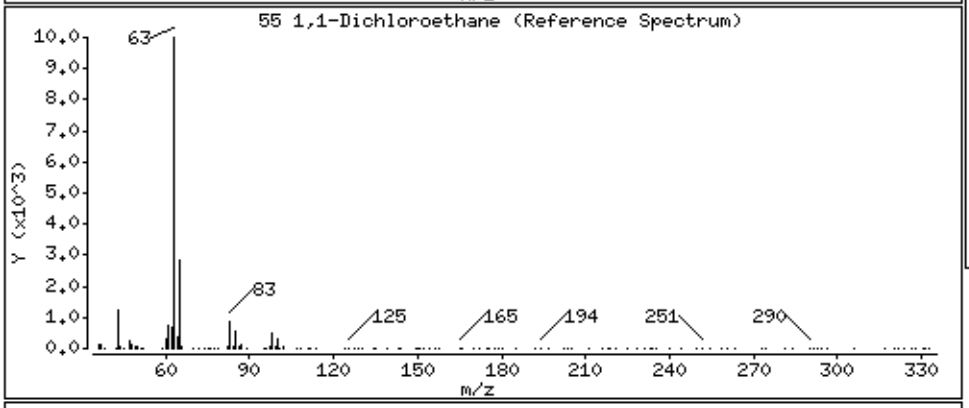
Concentration: 179.87 PPBV

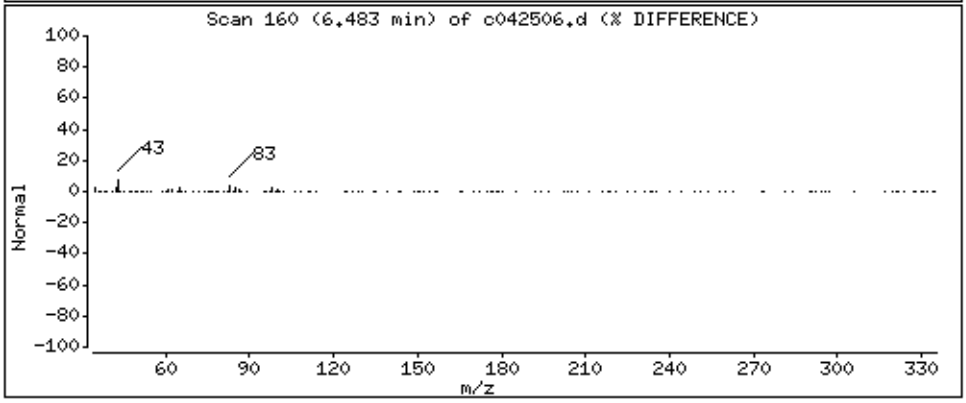












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

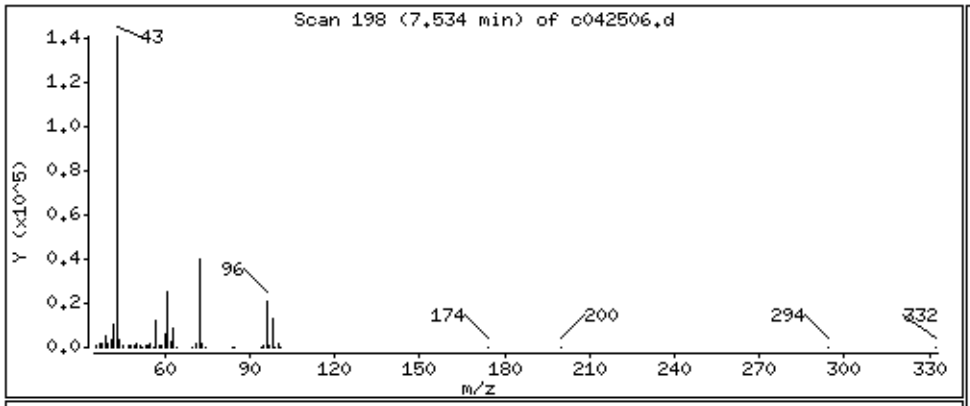
Operator: JP

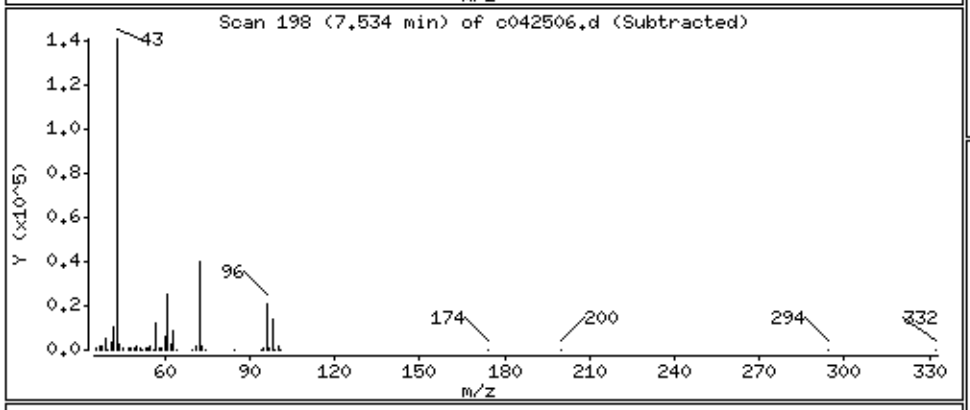
Column phase: RTx-624

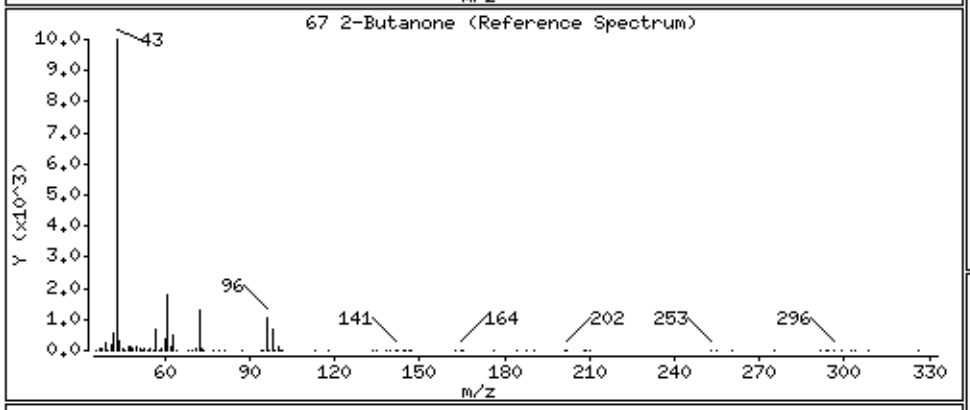
Column diameter: 0.53

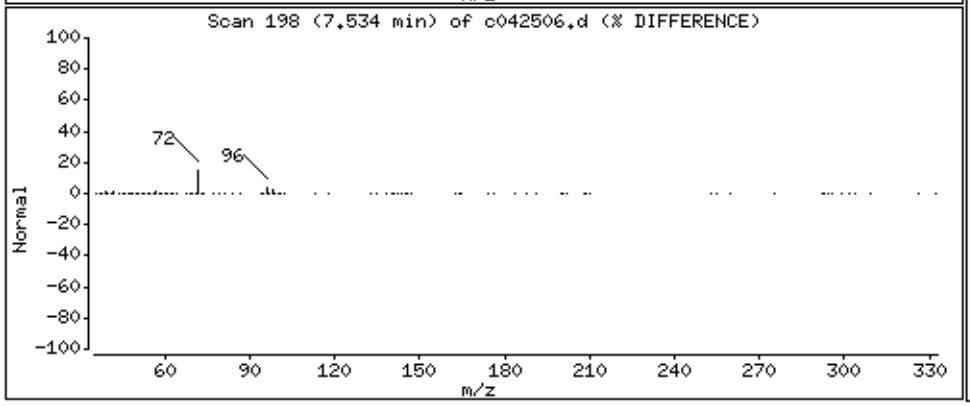
67 2-Butanone

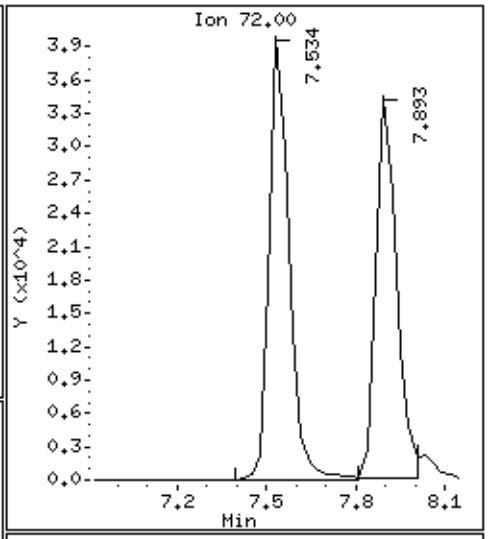
Concentration: 181.93 PPBV

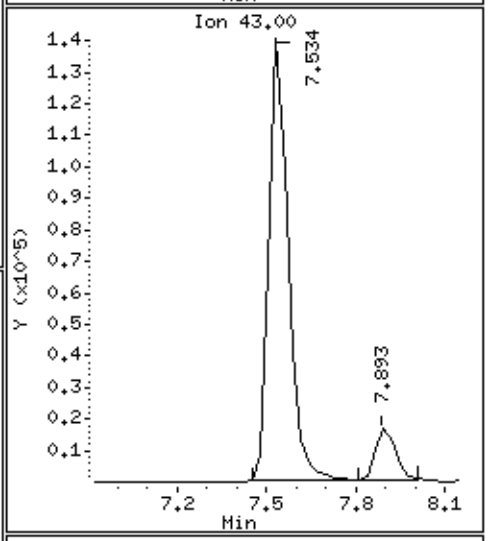


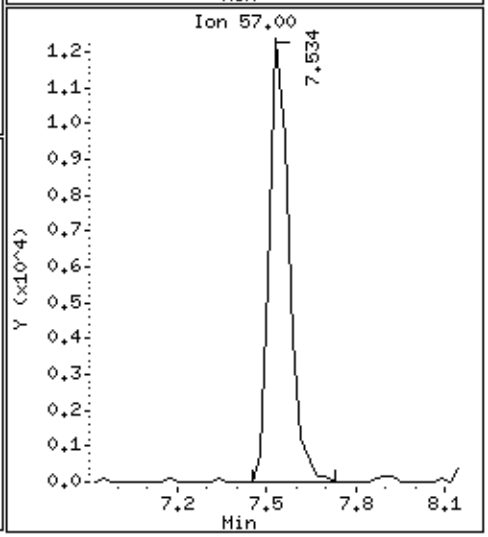












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

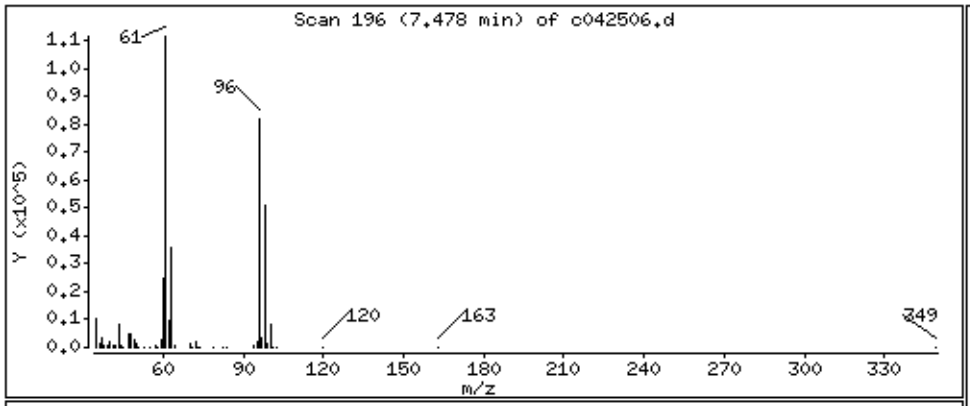
Operator: JP

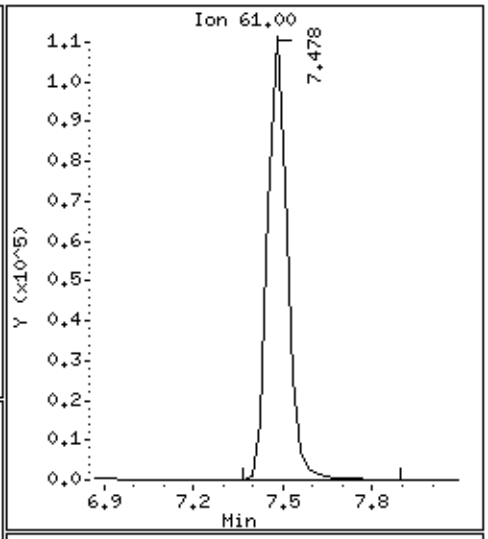
Column phase: RTx-624

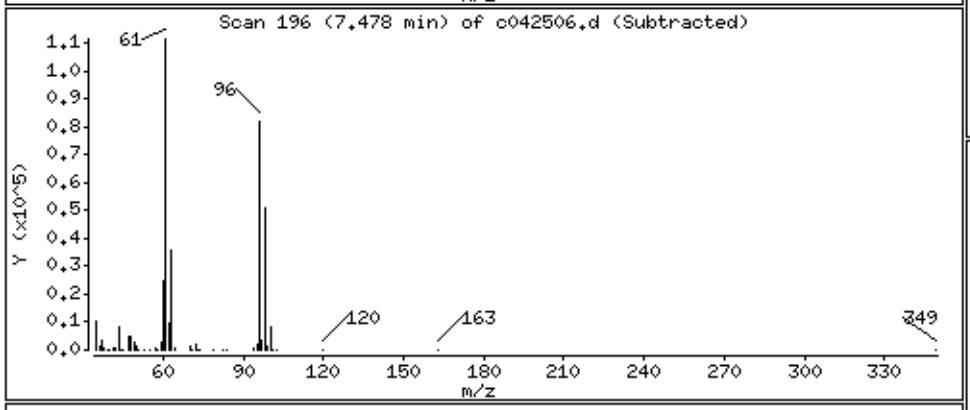
Column diameter: 0.53

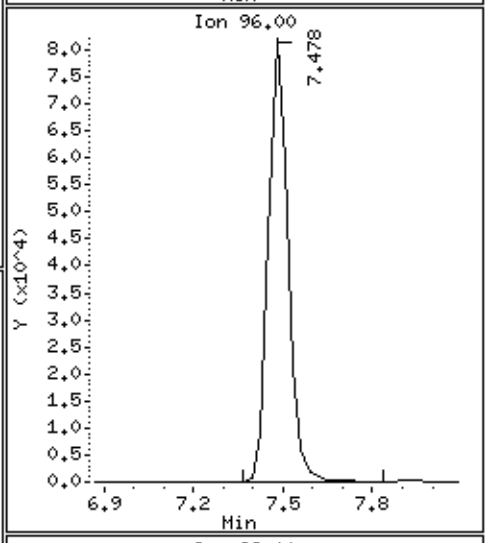
66 cis-1,2-Dichloroethene

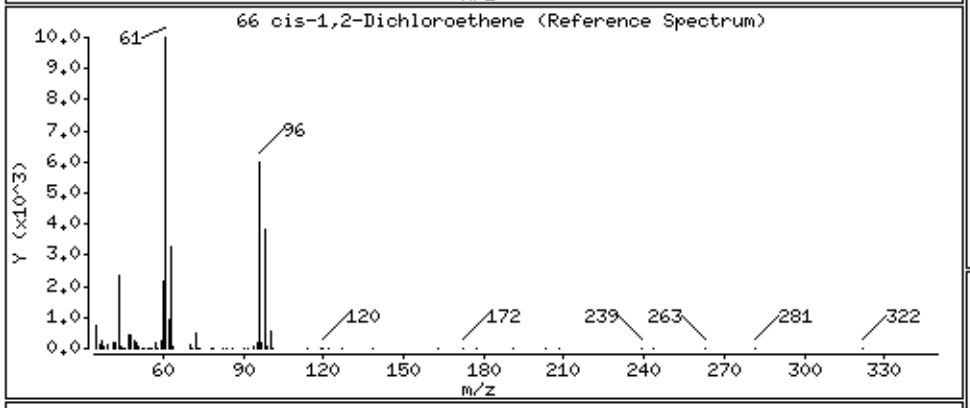
Concentration: 174.94 PPBV

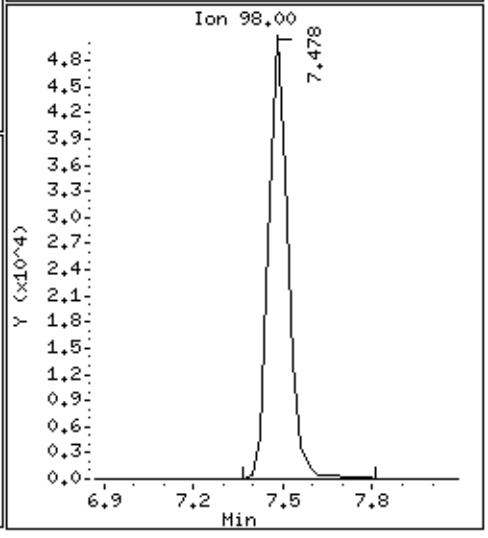


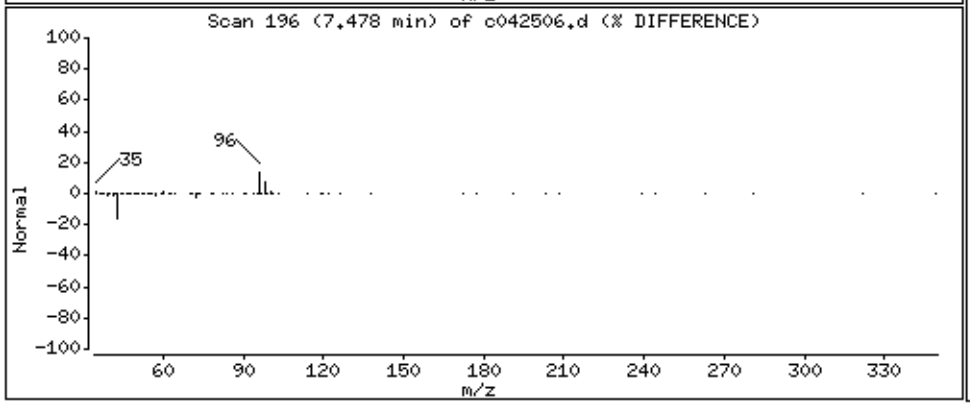












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

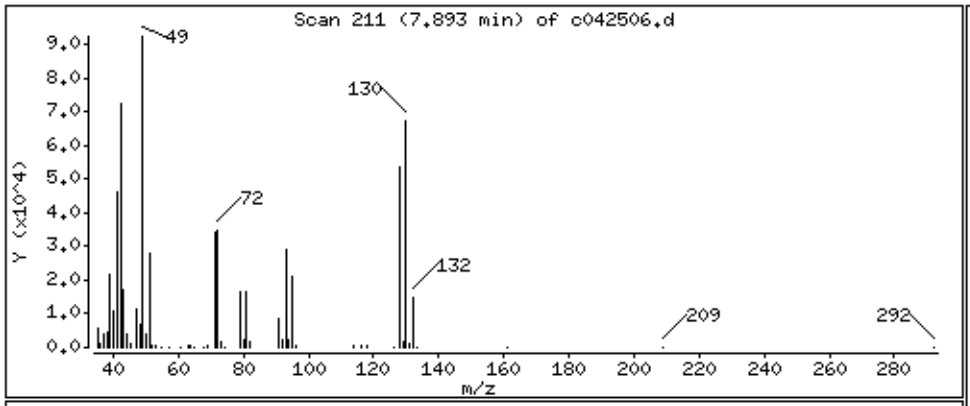
Operator: JP

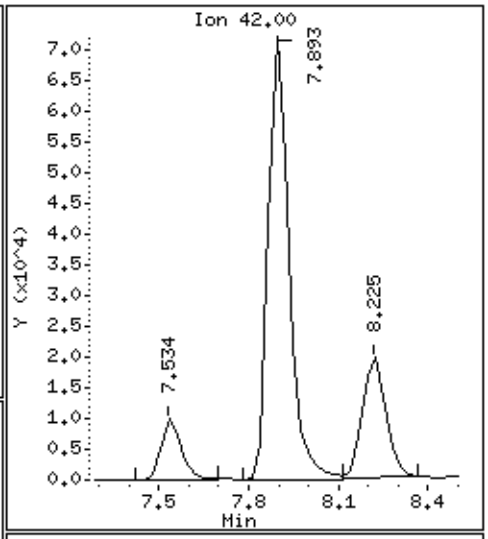
Column phase: RTx-624

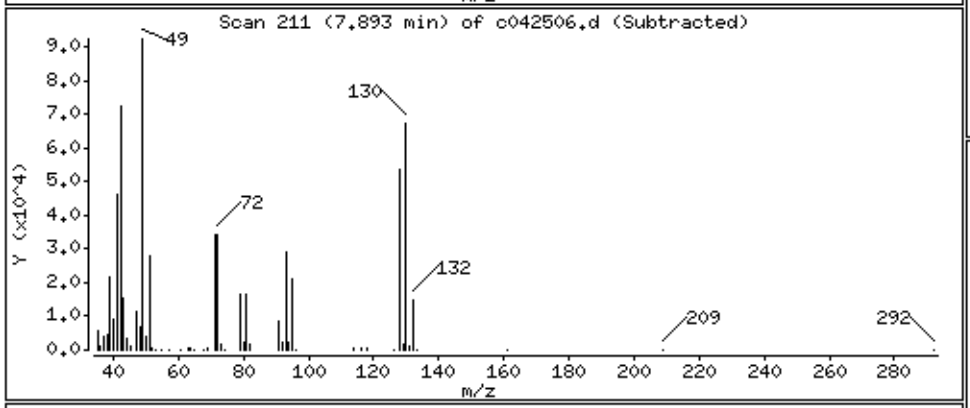
Column diameter: 0.53

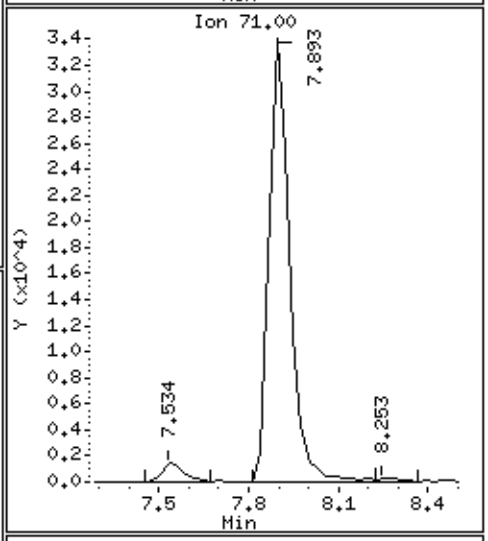
70 Tetrahydrofuran

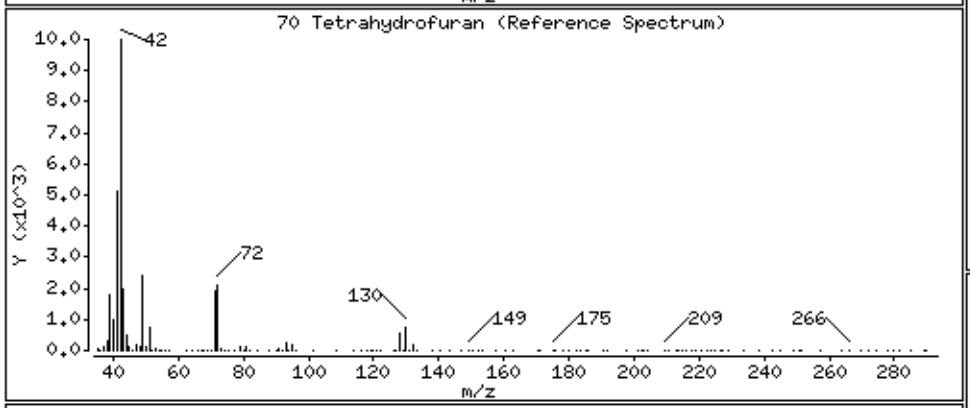
Concentration: 180.11 PPBV

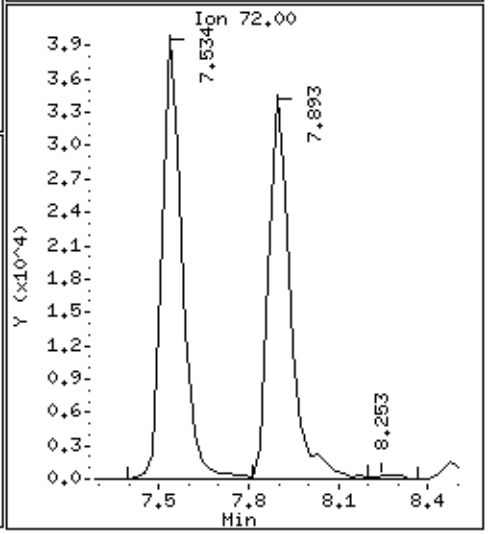


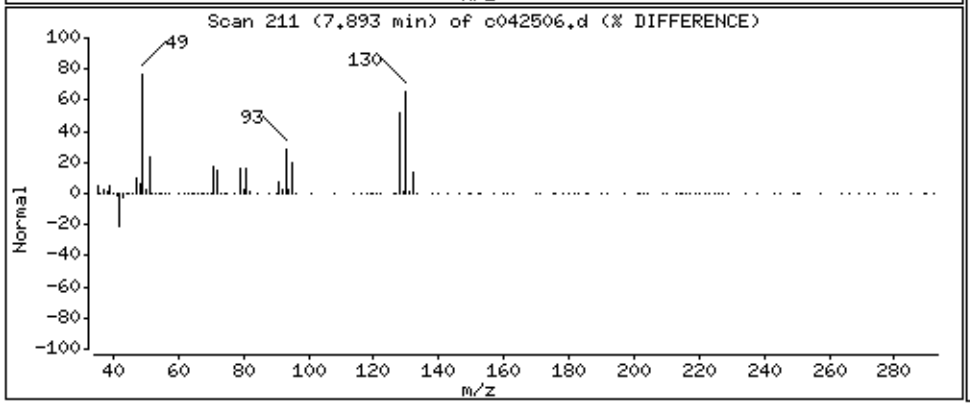












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

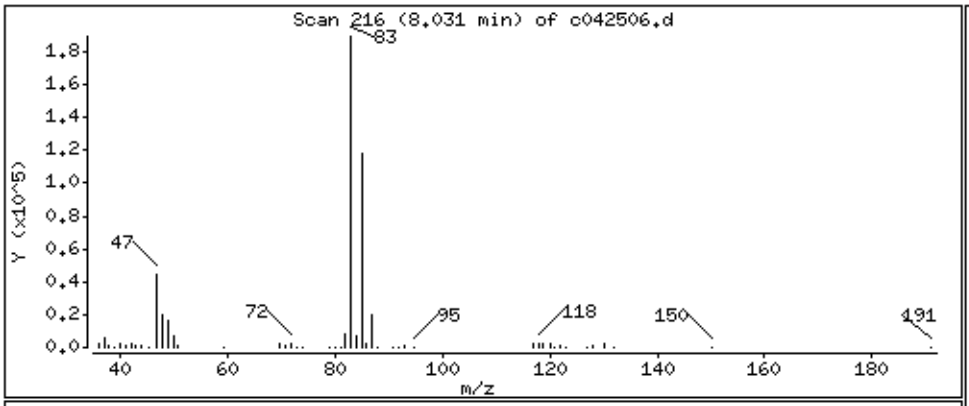
Operator: JP

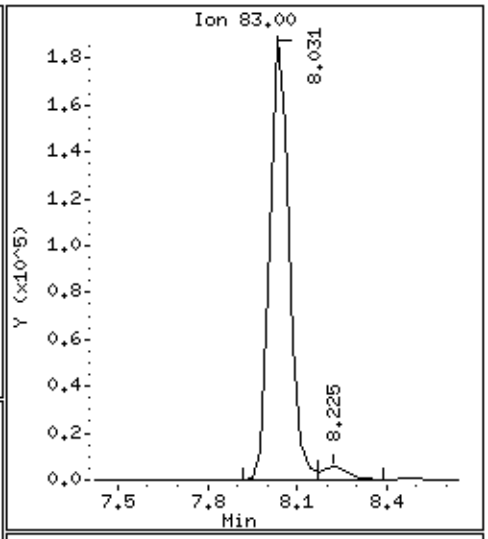
Column phase: RTx-624

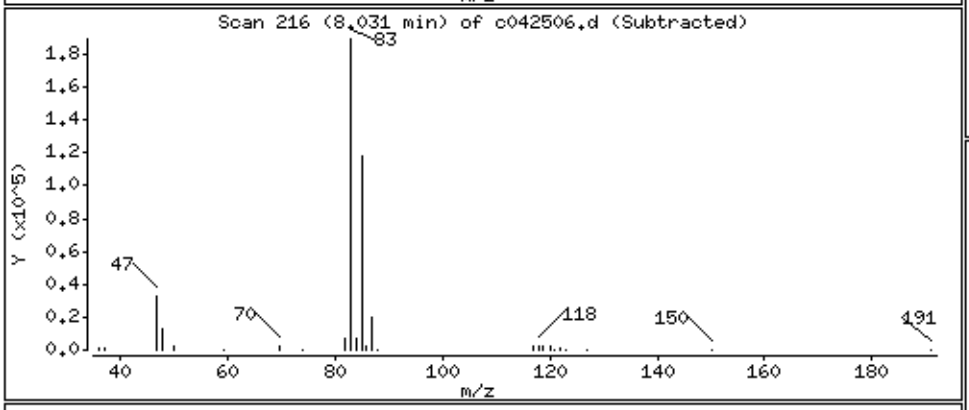
Column diameter: 0.53

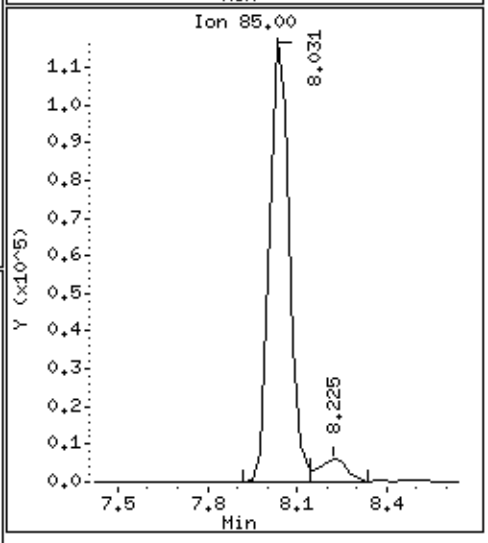
72 Chloroform

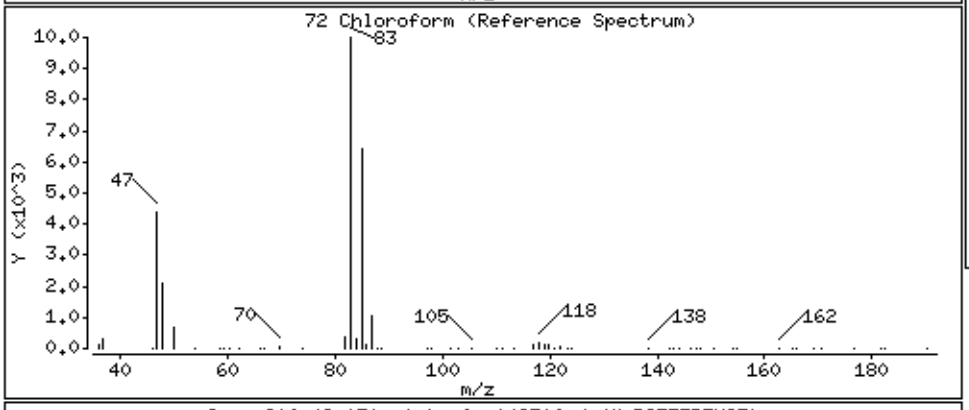
Concentration: 175.88 PPBV

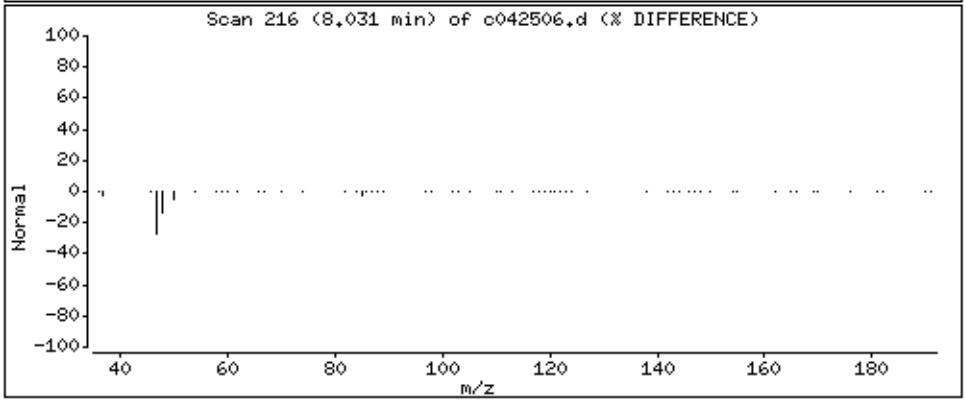












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

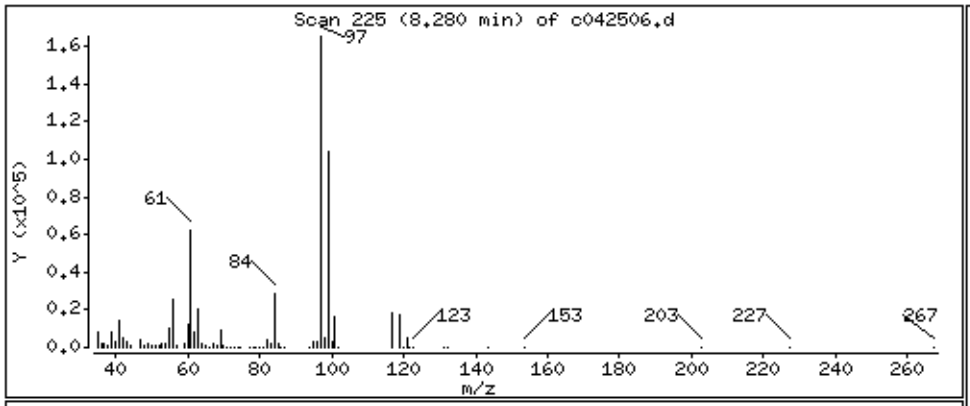
Operator: JP

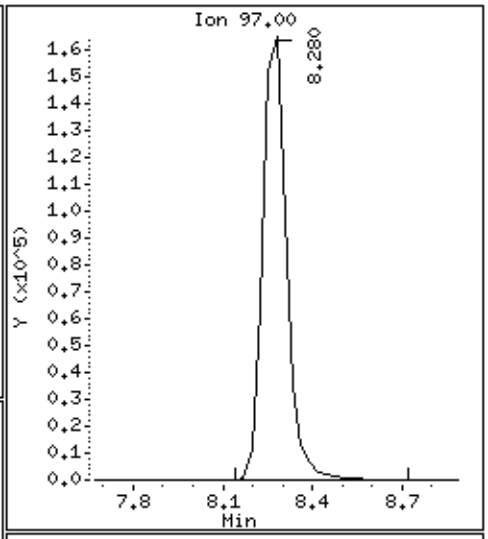
Column phase: RTx-624

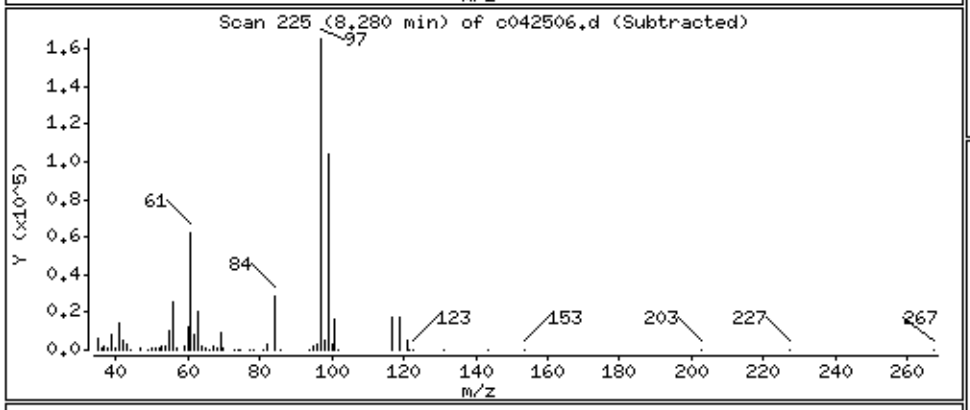
Column diameter: 0.53

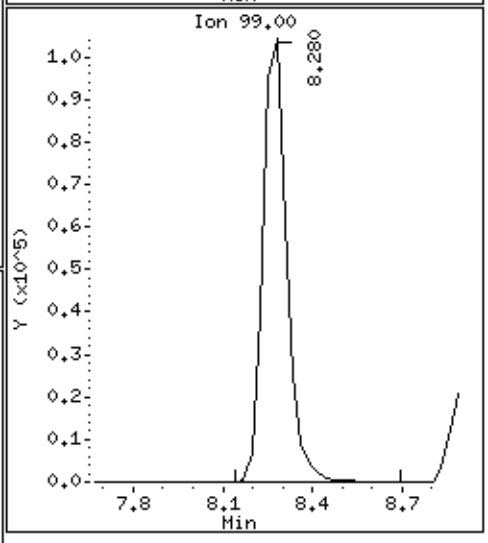
75 1,1,1-Trichloroethane

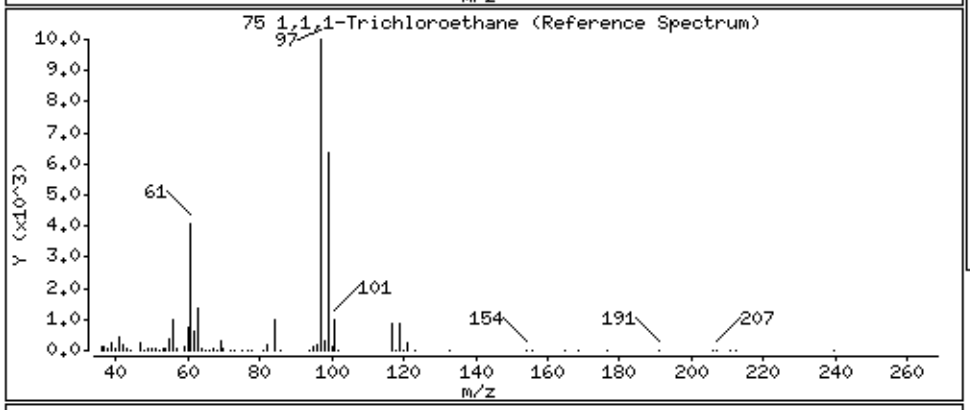
Concentration: 189.30 PPBV

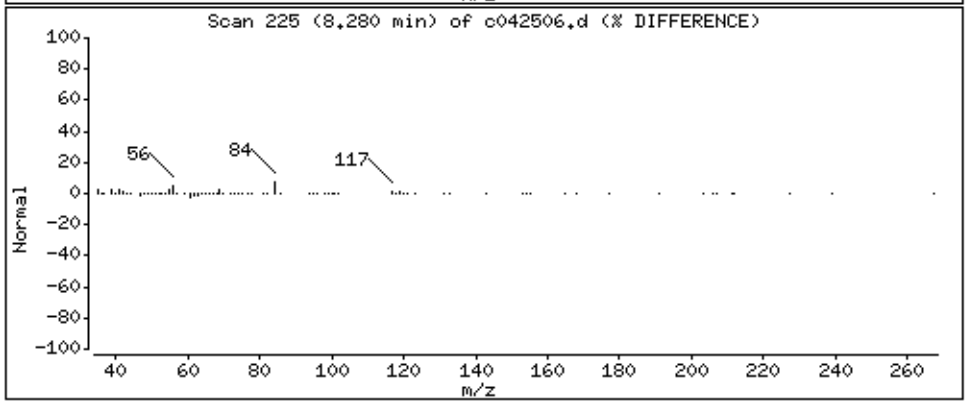












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

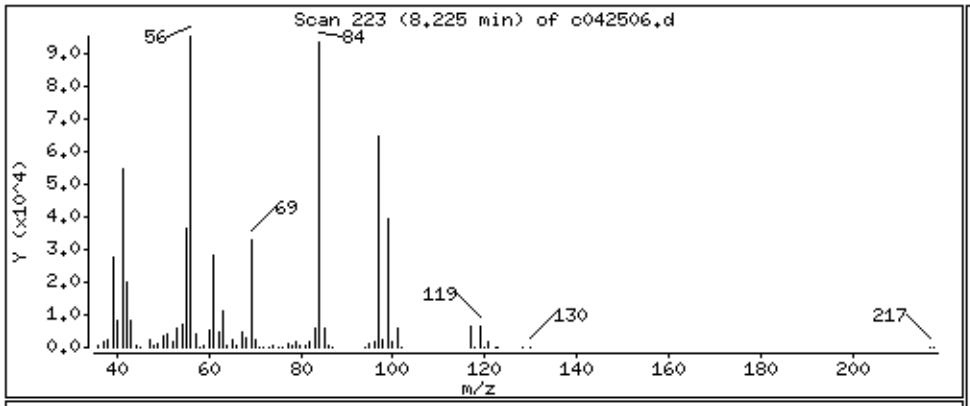
Operator: JP

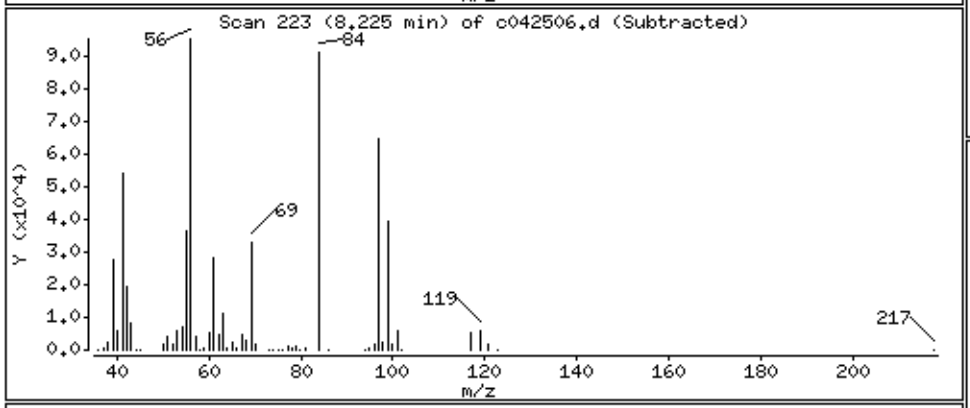
Column phase: RTx-624

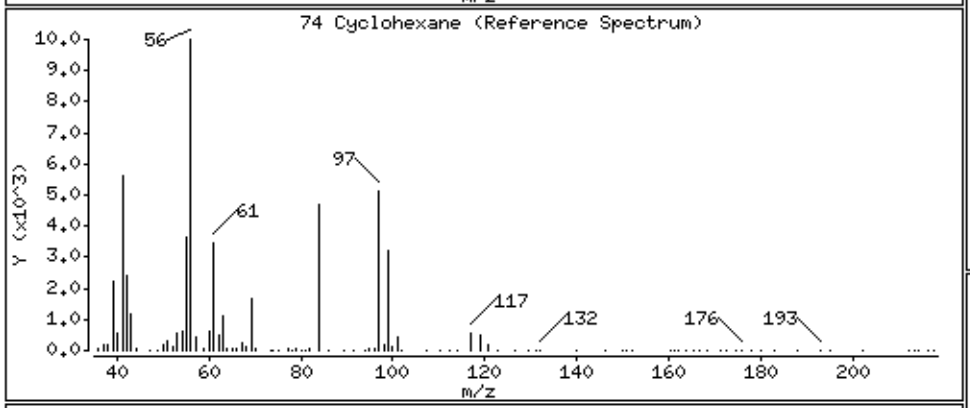
Column diameter: 0.53

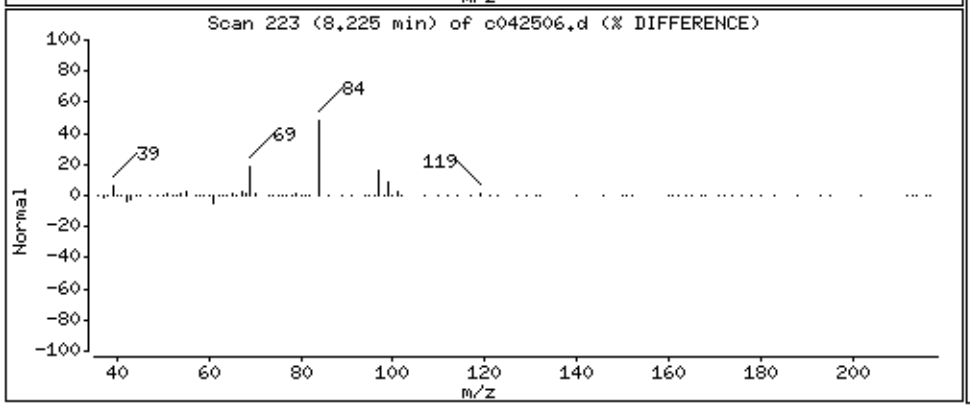
74 Cyclohexane

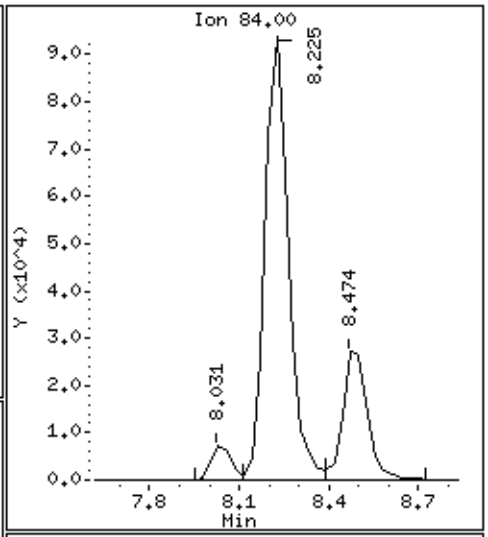
Concentration: 187.16 PPBV

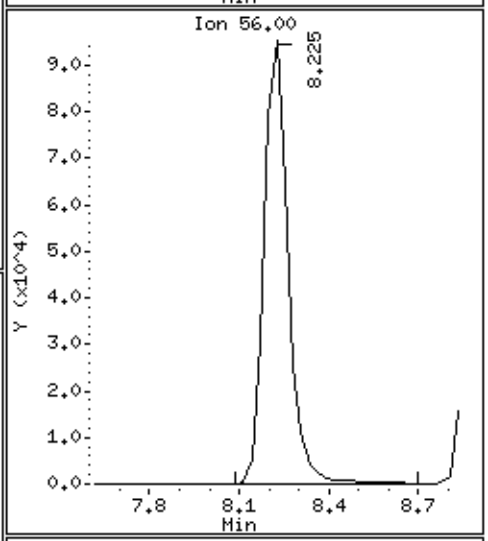


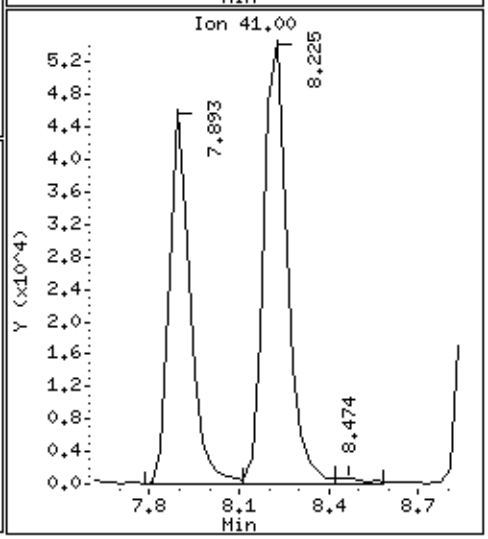












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

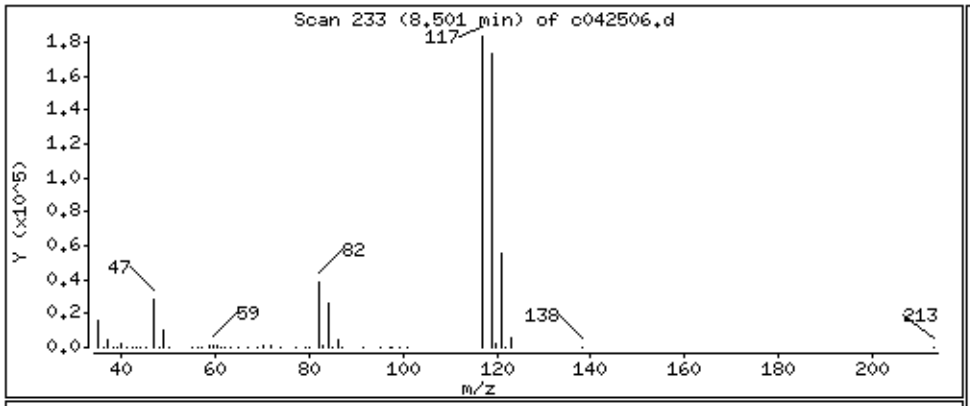
Operator: JP

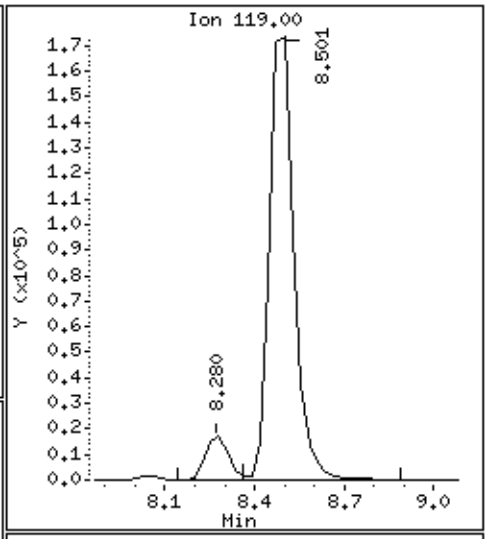
Column phase: RTx-624

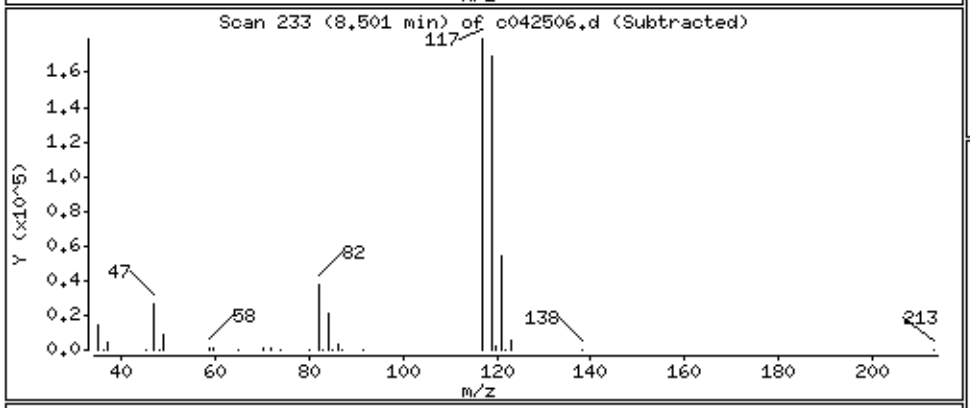
Column diameter: 0.53

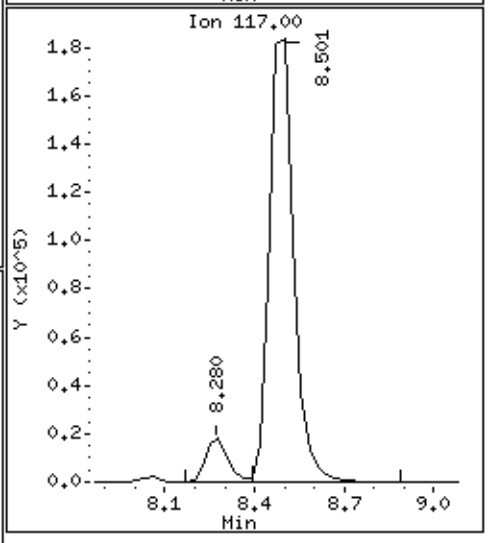
77 Carbon Tetrachloride

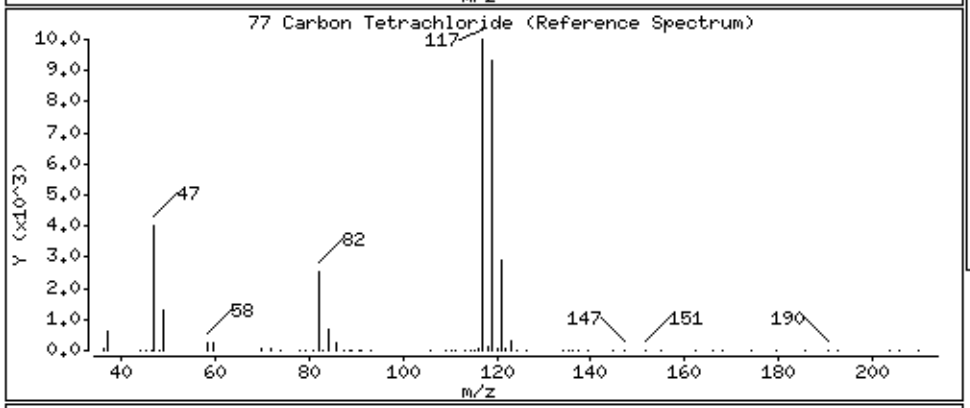
Concentration: 183.77 PPBV

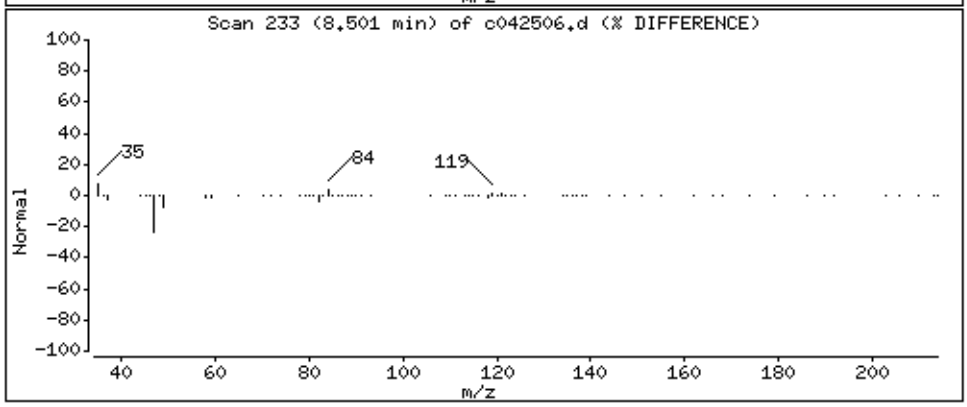












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

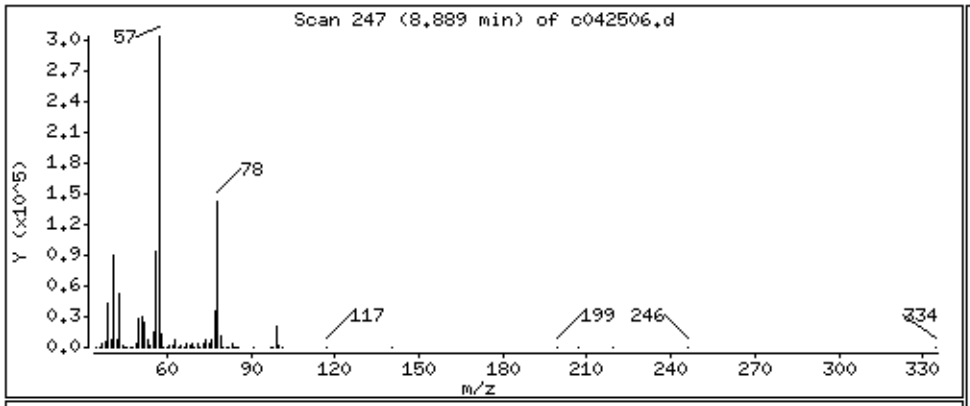
Operator: JP

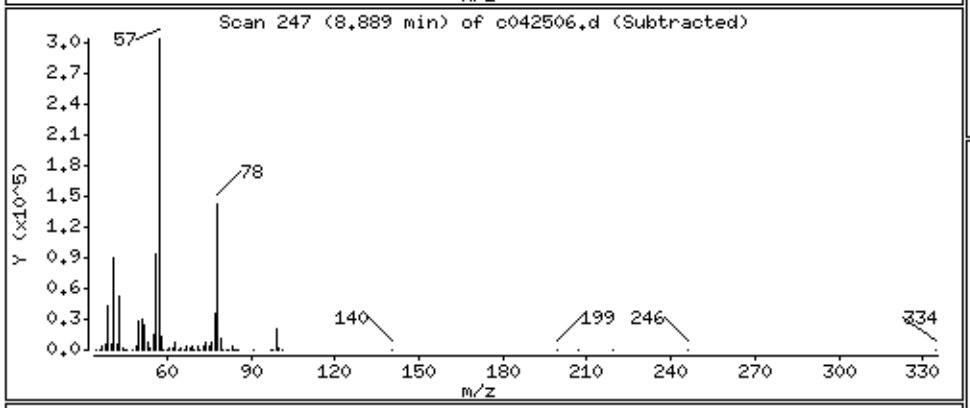
Column phase: RTx-624

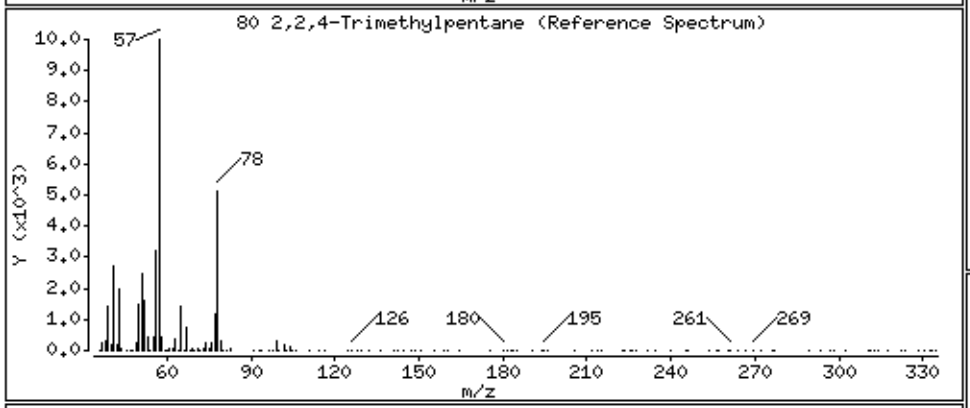
Column diameter: 0.53

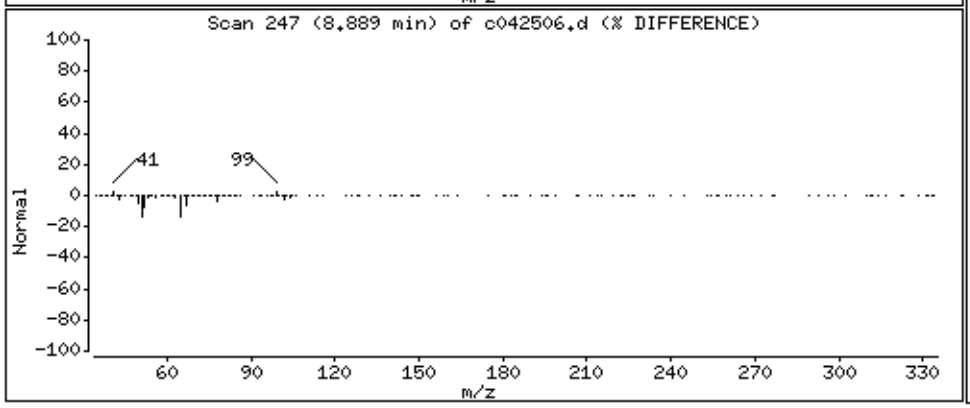
80 2,2,4-Trimethylpentane

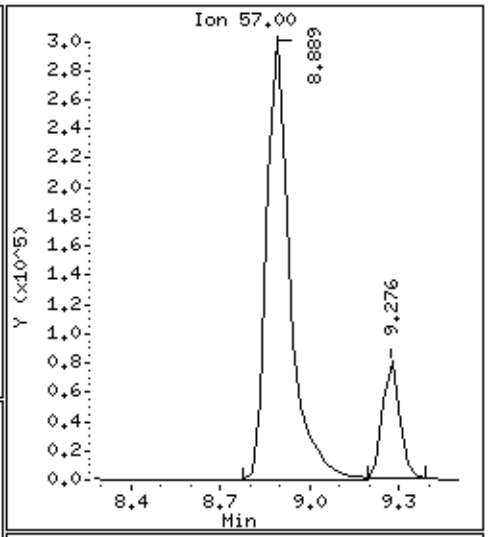
Concentration: 180.10 PPBV

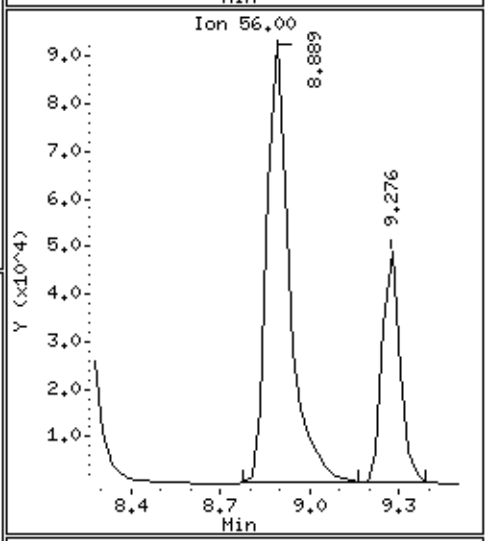


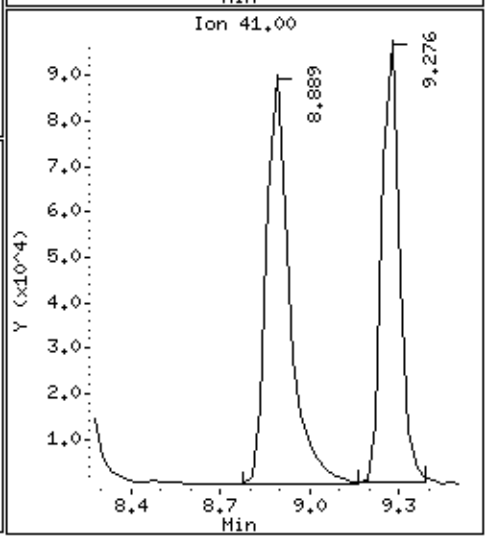












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

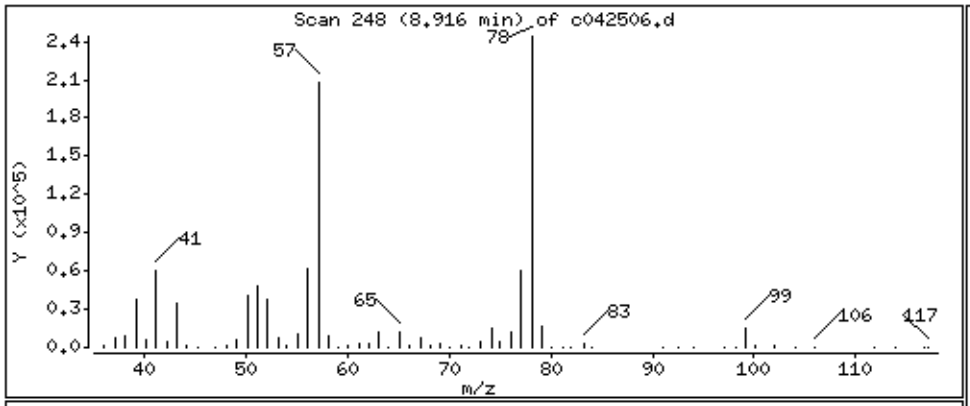
Operator: JP

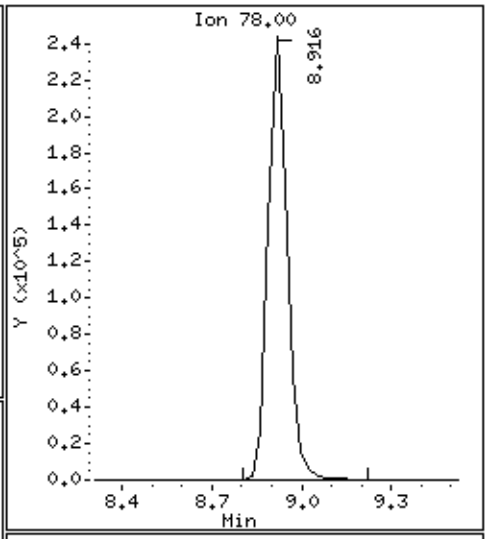
Column phase: RTx-624

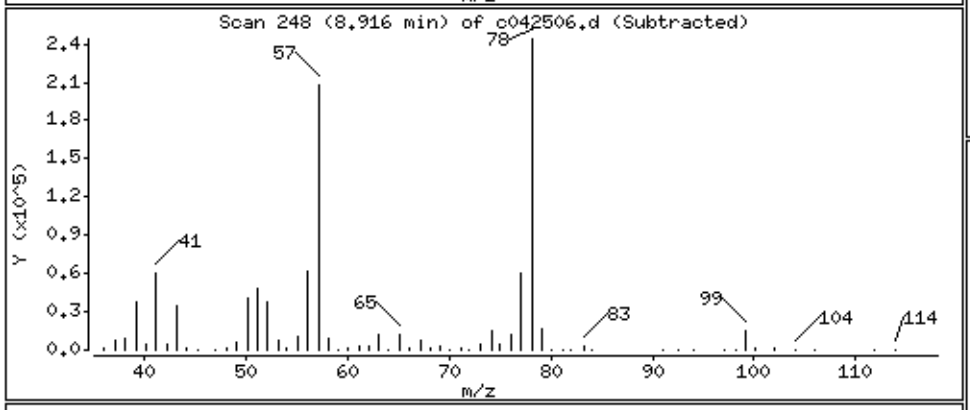
Column diameter: 0.53

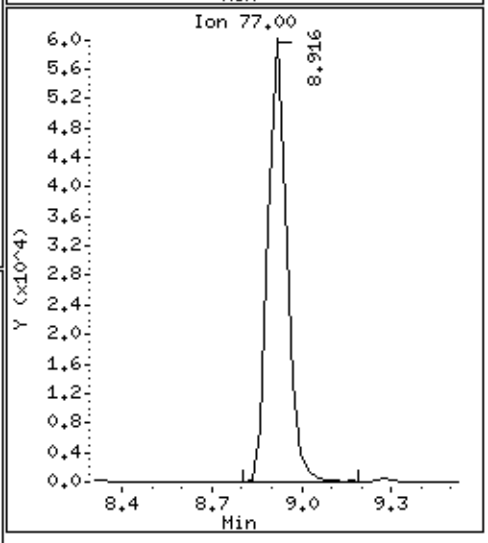
81 Benzene

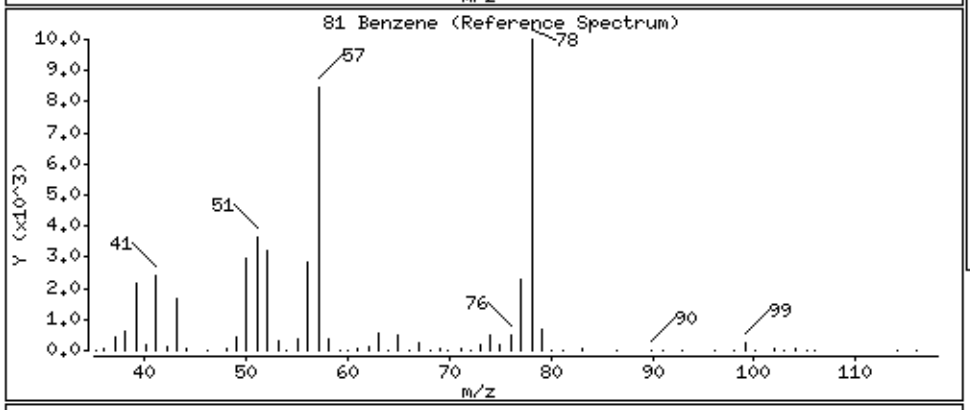
Concentration: 178.90 PPBV

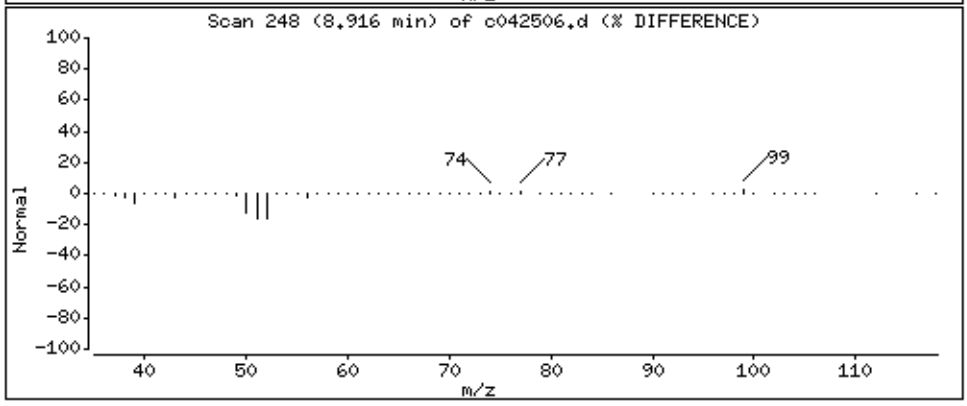












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

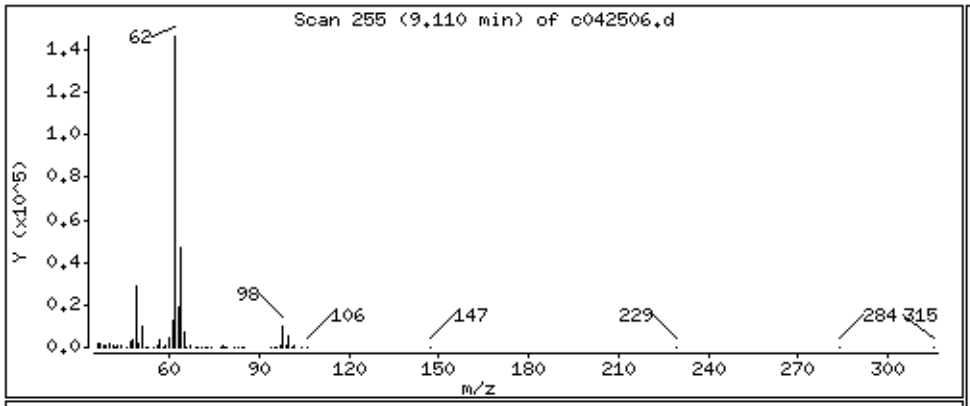
Operator: JP

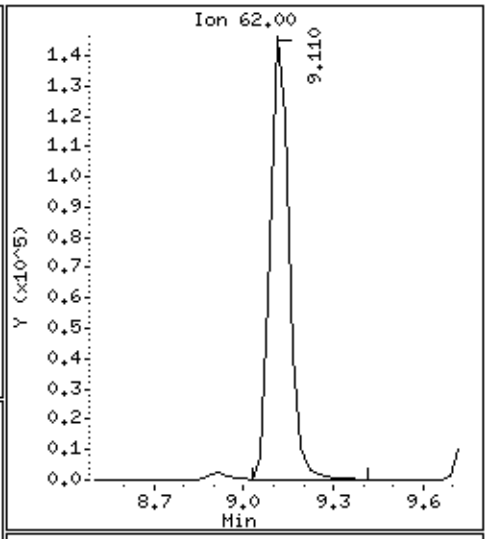
Column phase: RTx-624

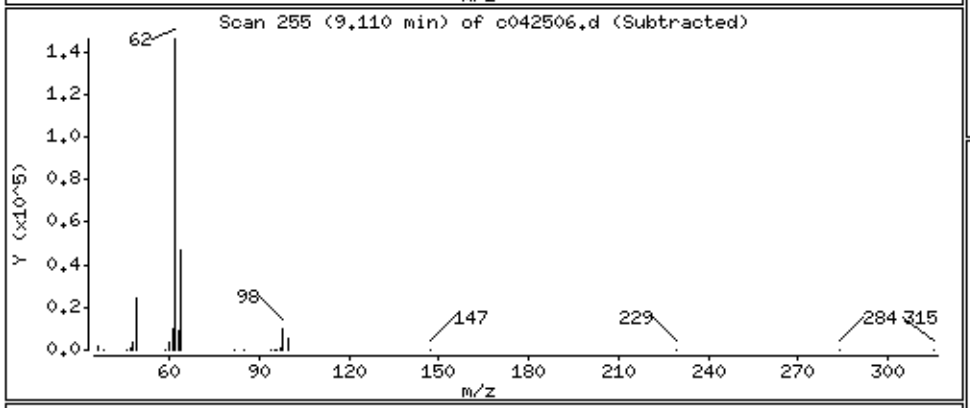
Column diameter: 0.53

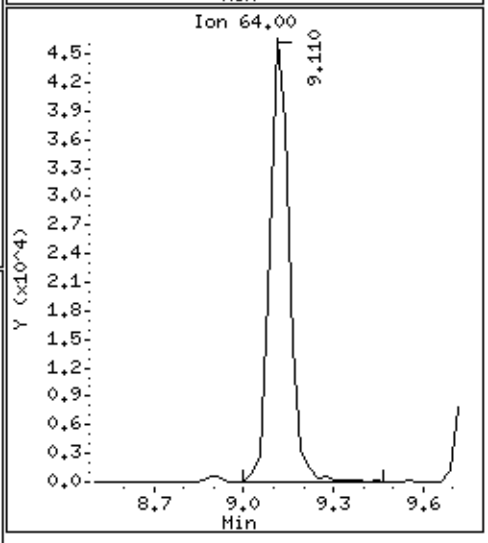
85 1,2-Dichloroethane

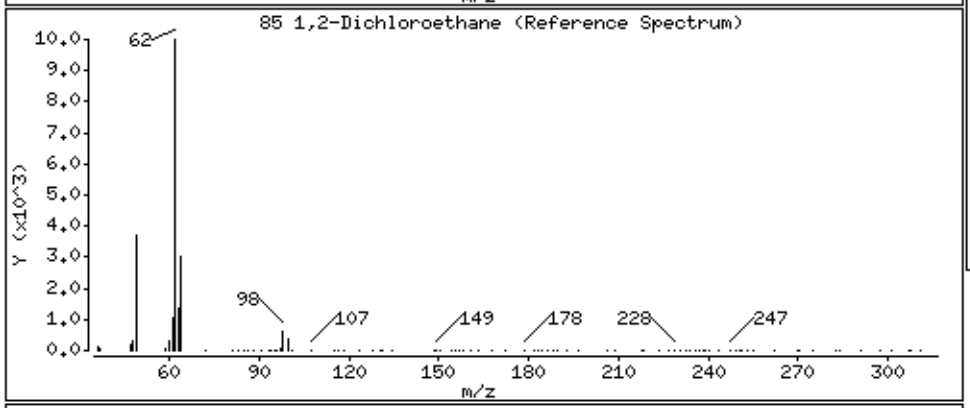
Concentration: 180.03 PPBV

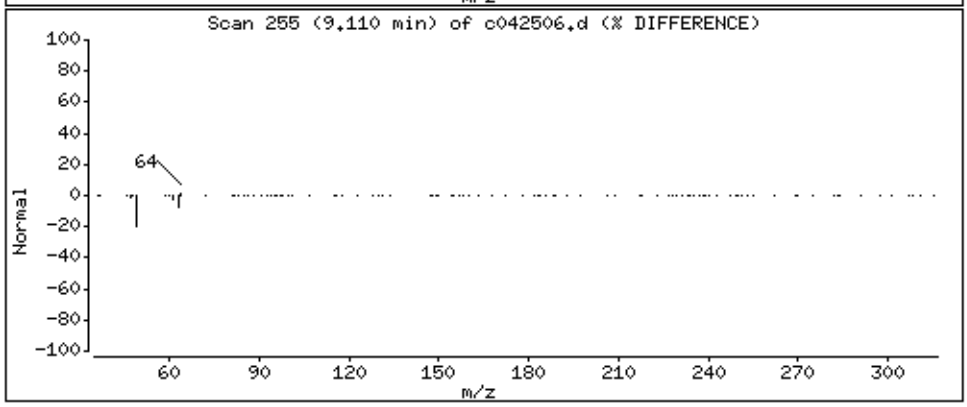












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

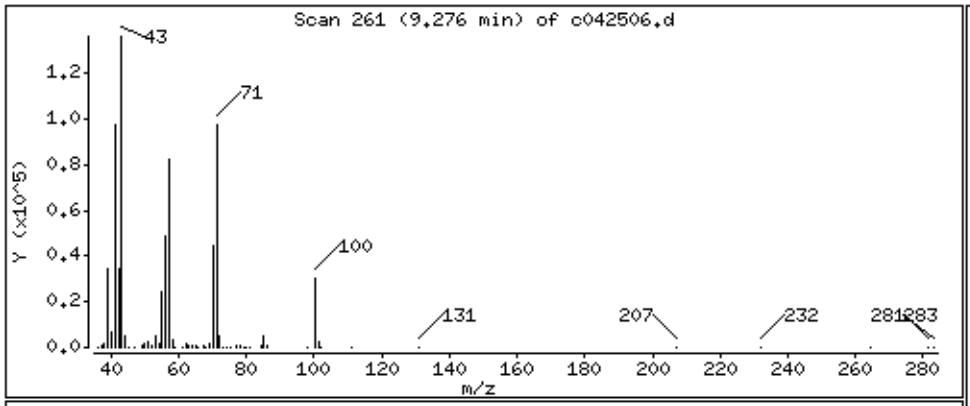
Operator: JP

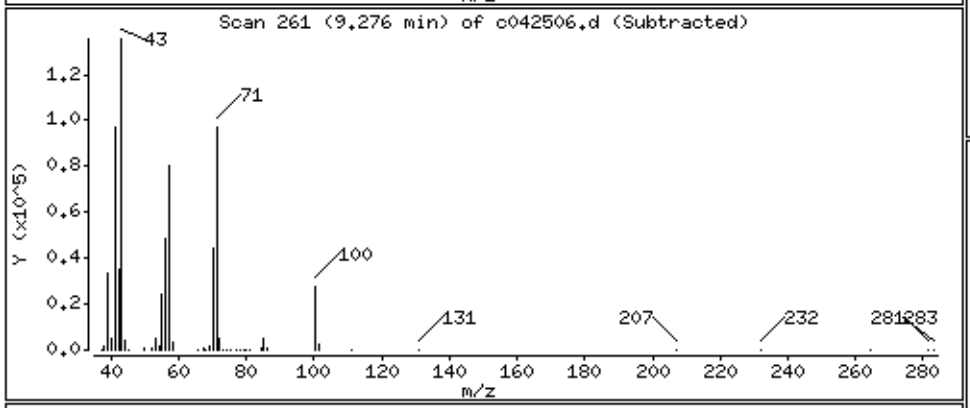
Column phase: RTx-624

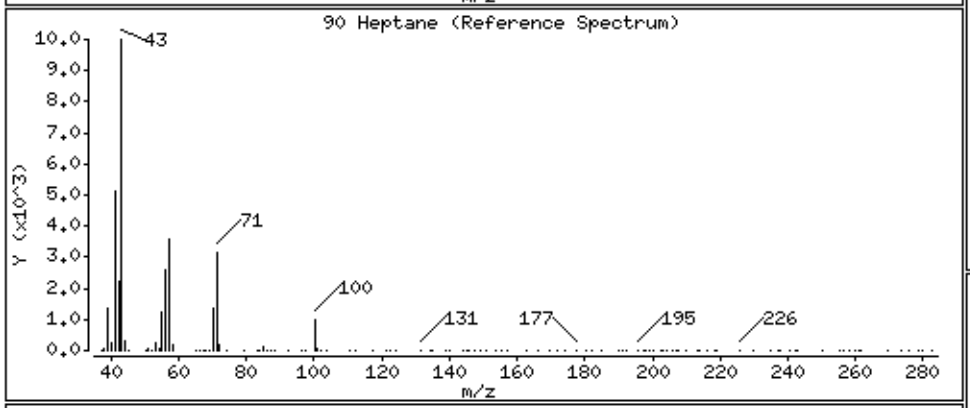
Column diameter: 0.53

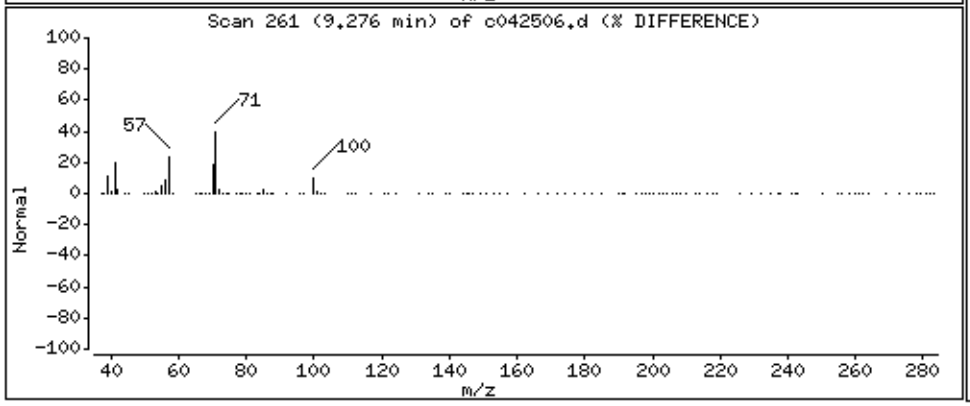
90 Heptane

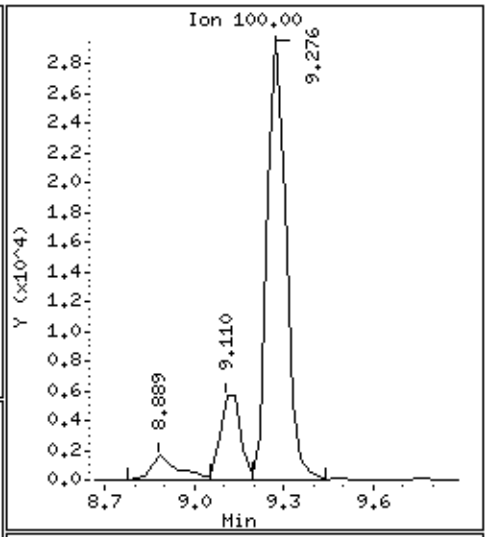
Concentration: 158.40 PPBV

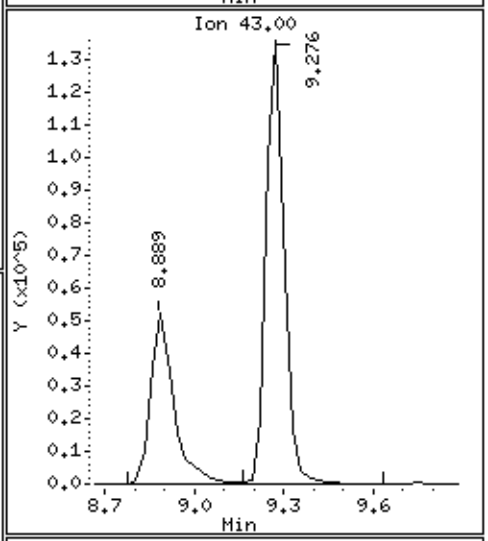


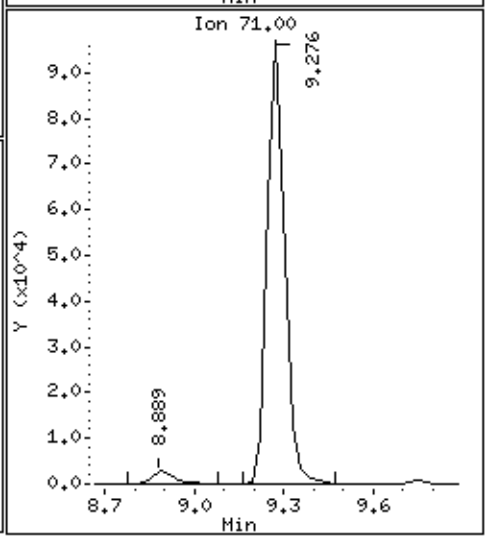












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

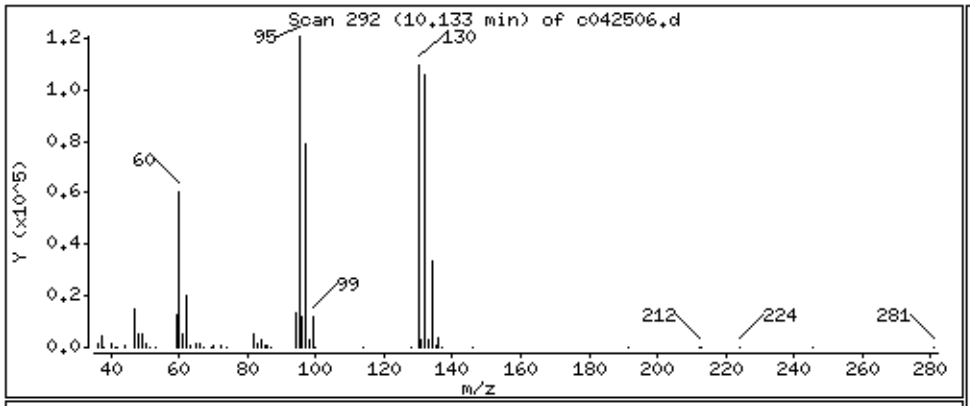
Operator: JP

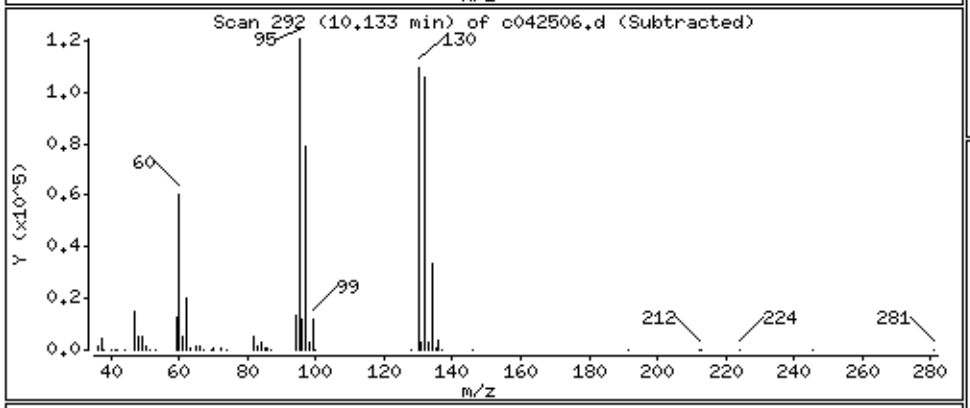
Column phase: RTx-624

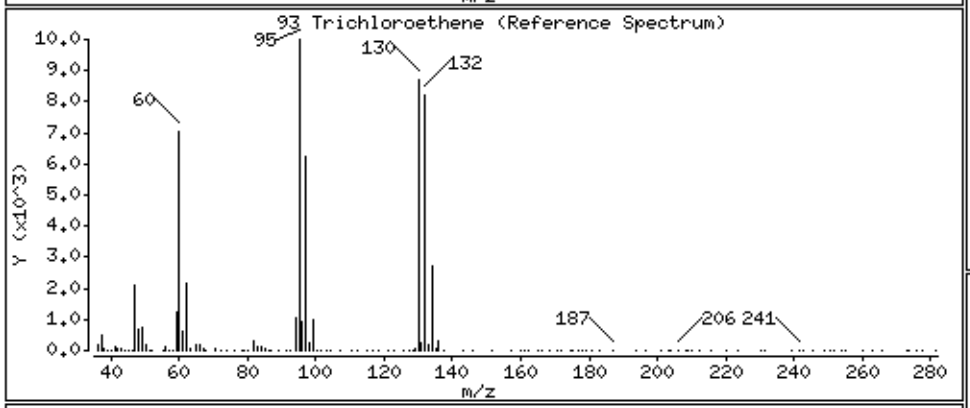
Column diameter: 0.53

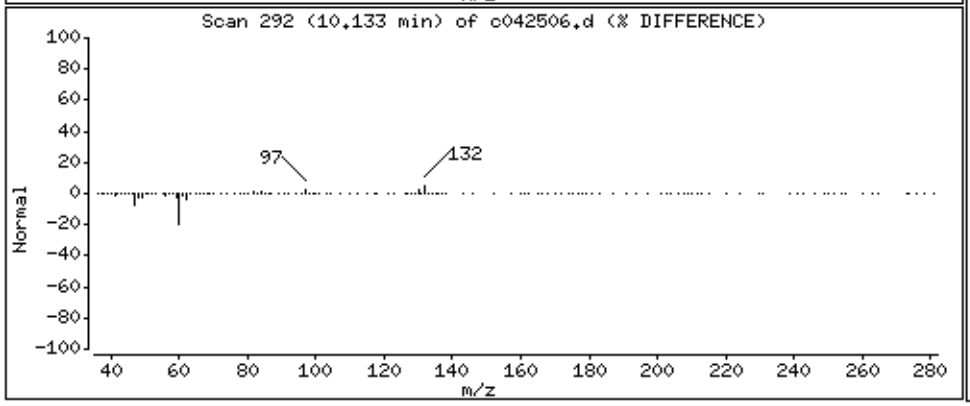
93 Trichloroethene

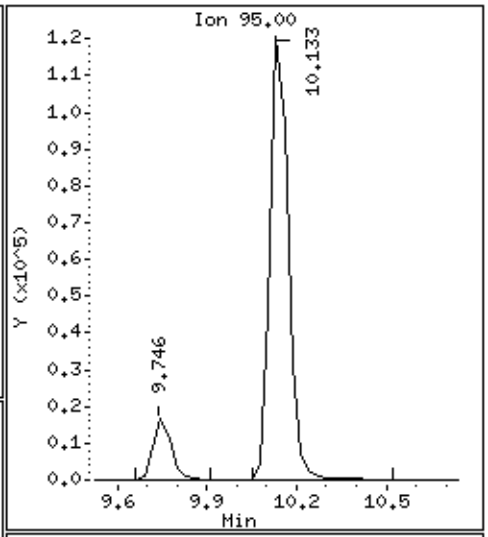
Concentration: 173.68 PPBV

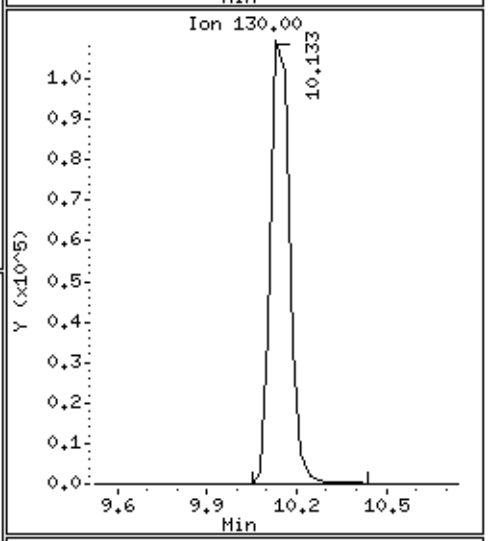


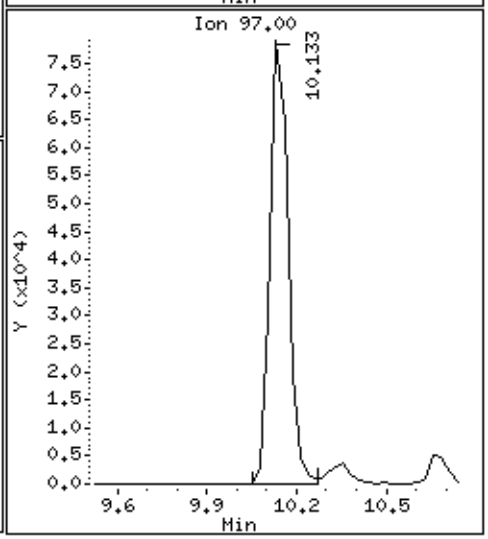












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

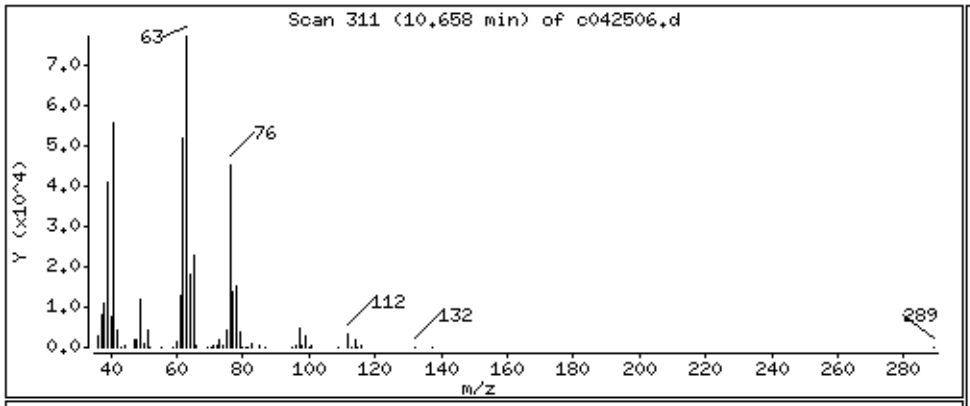
Operator: JP

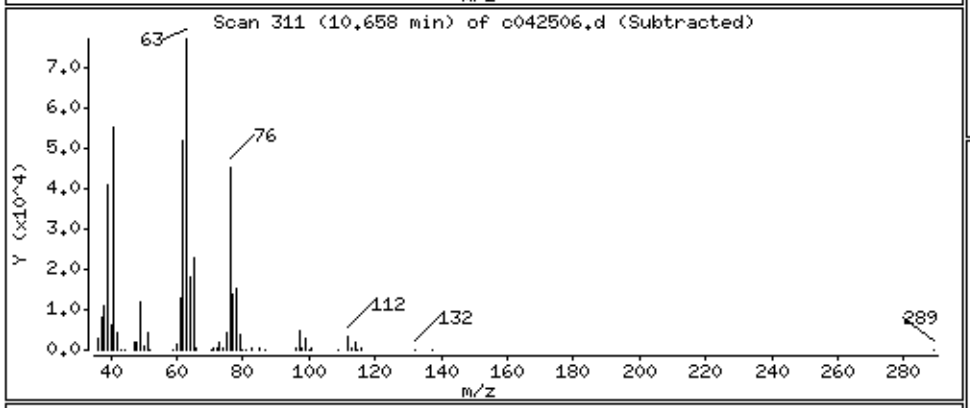
Column phase: RTx-624

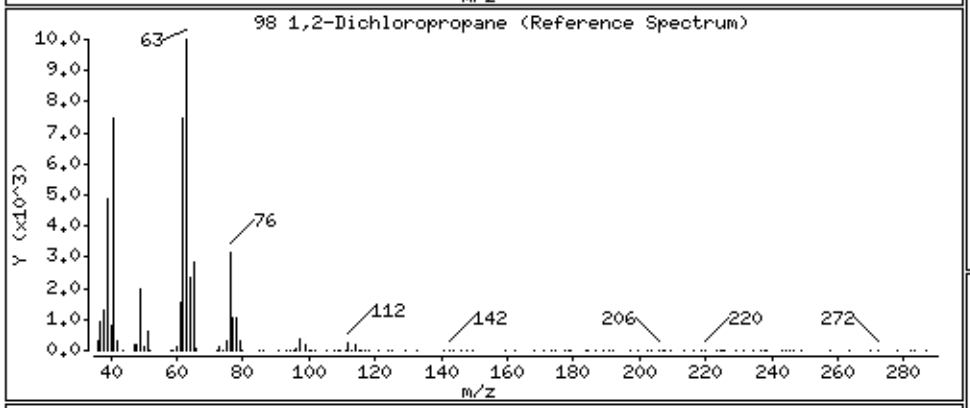
Column diameter: 0.53

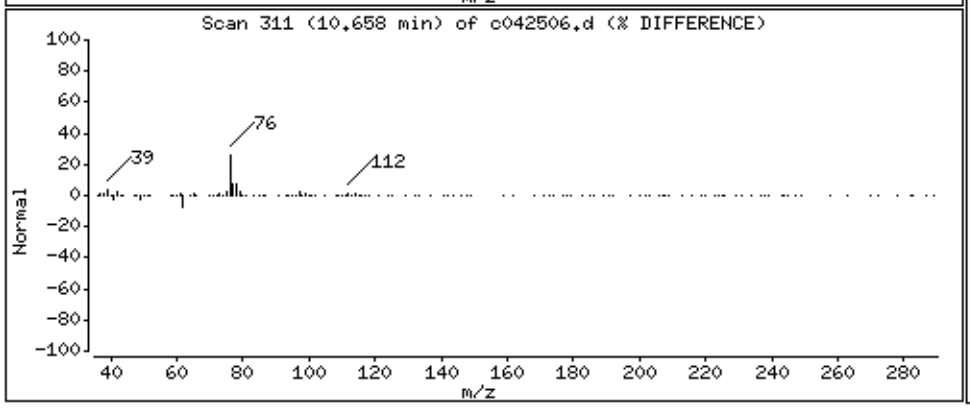
98 1,2-Dichloropropane

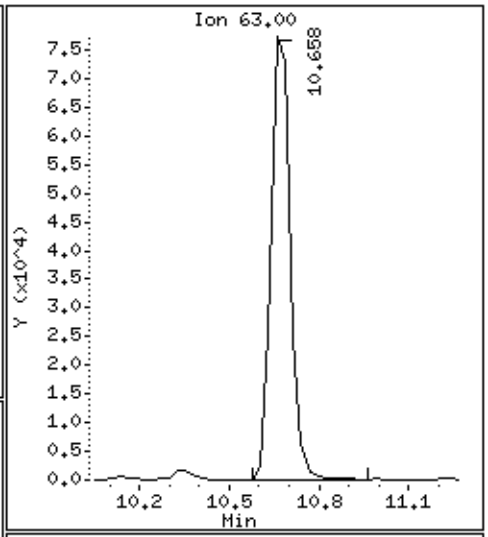
Concentration: 179.64 PPBV

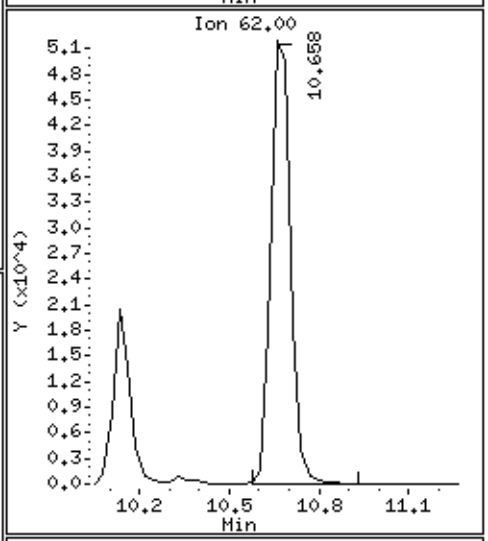


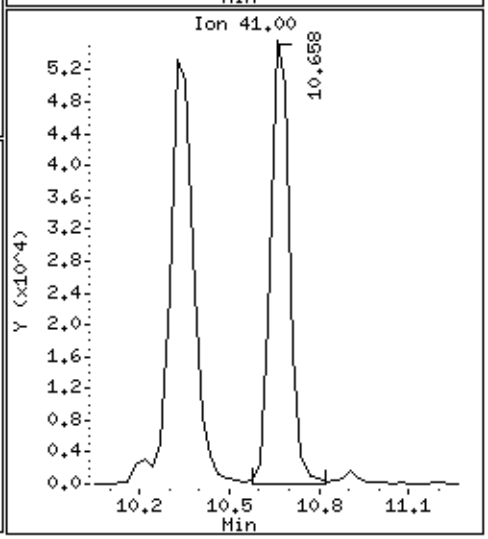












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

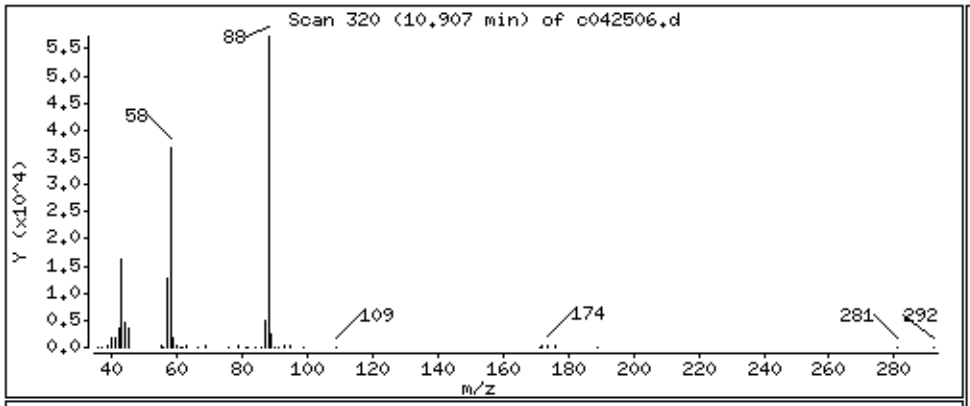
Operator: JP

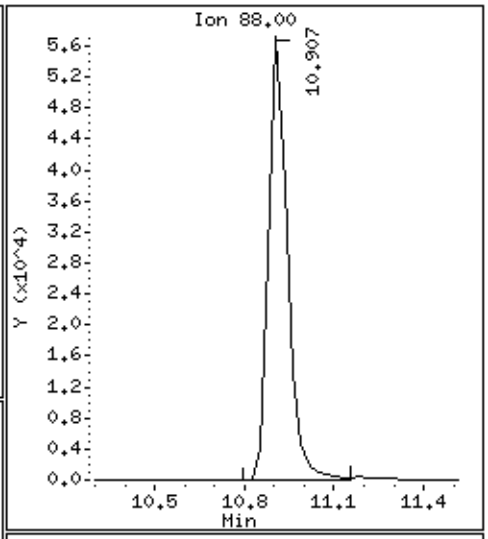
Column phase: RTx-624

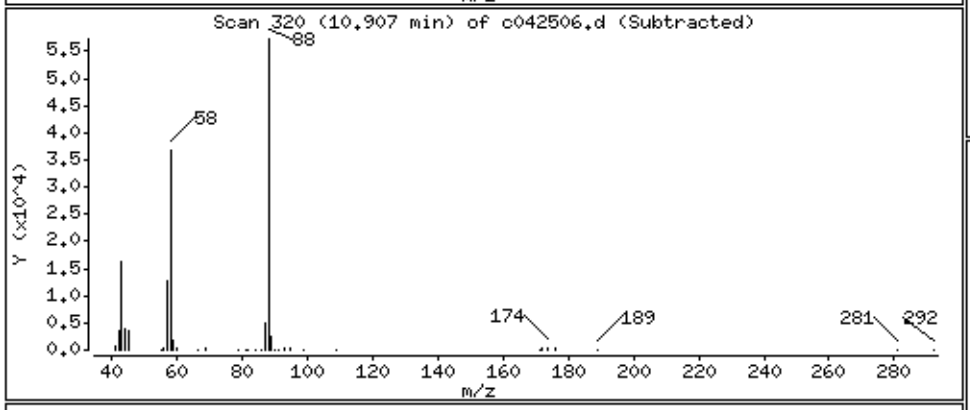
Column diameter: 0.53

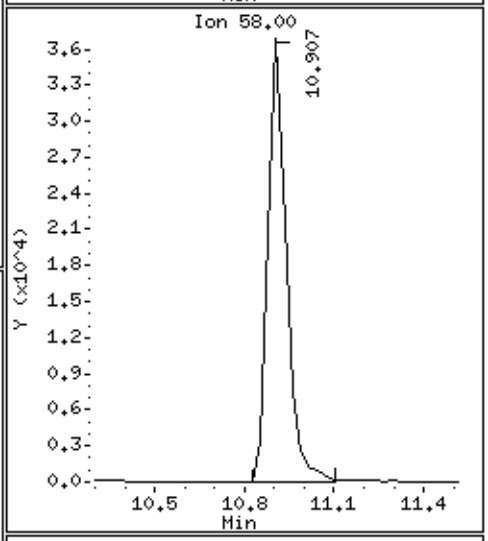
99 1,4-Dioxane

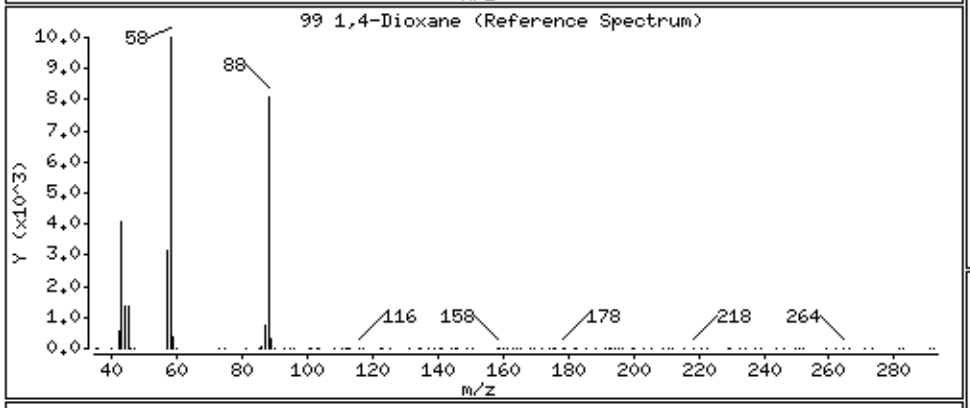
Concentration: 180.41 PPBV

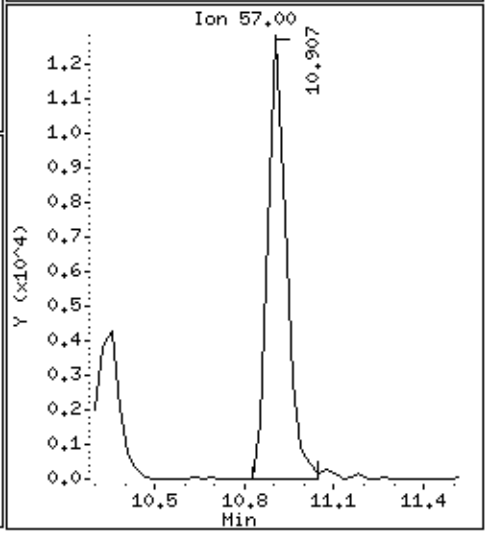


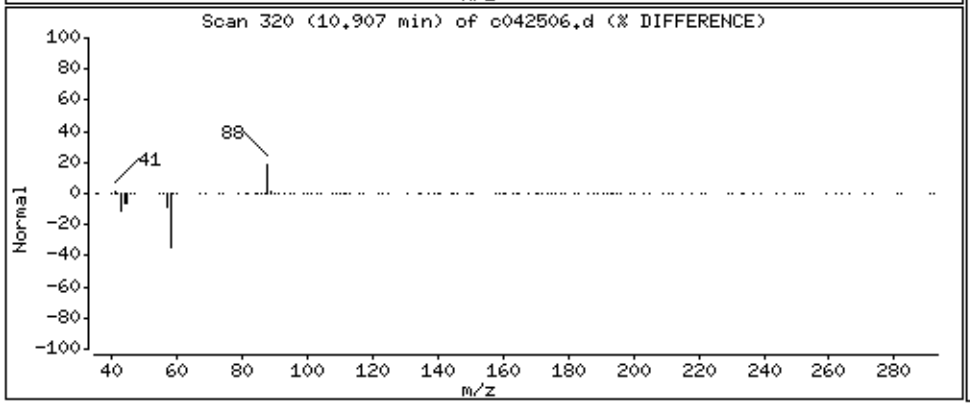












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

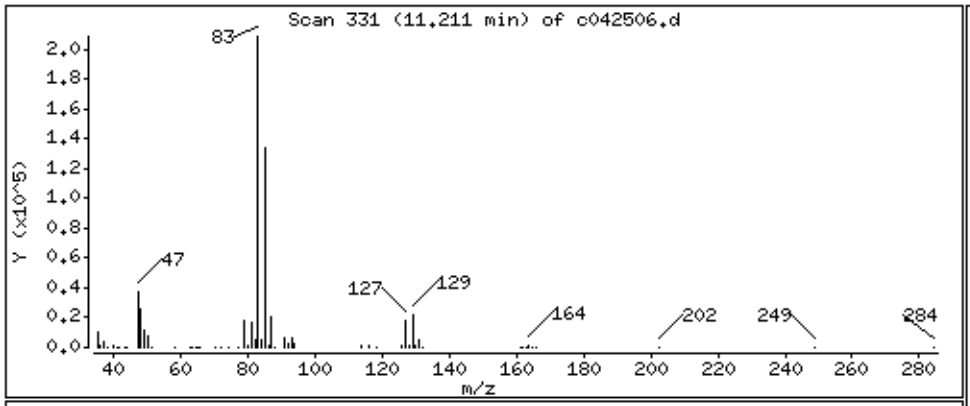
Operator: JP

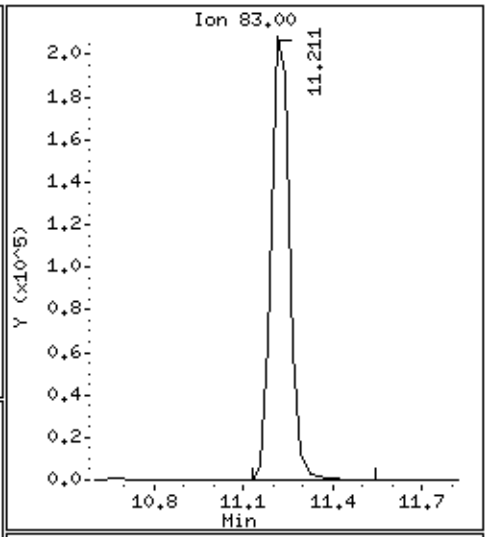
Column phase: RTx-624

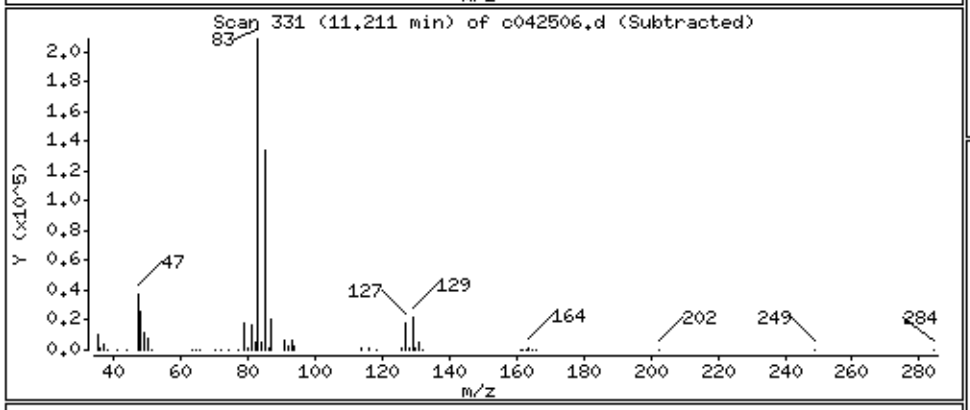
Column diameter: 0.53

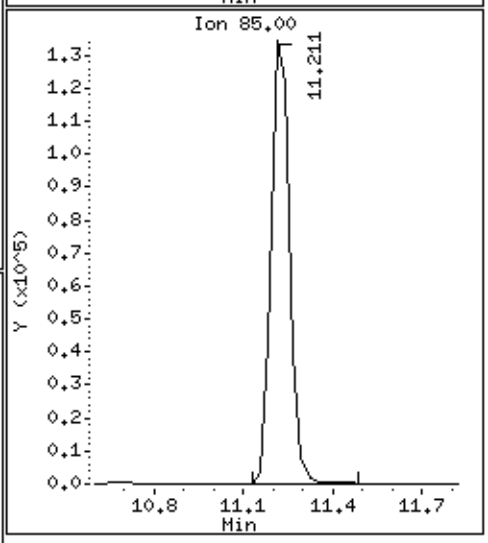
100 Bromodichloromethane

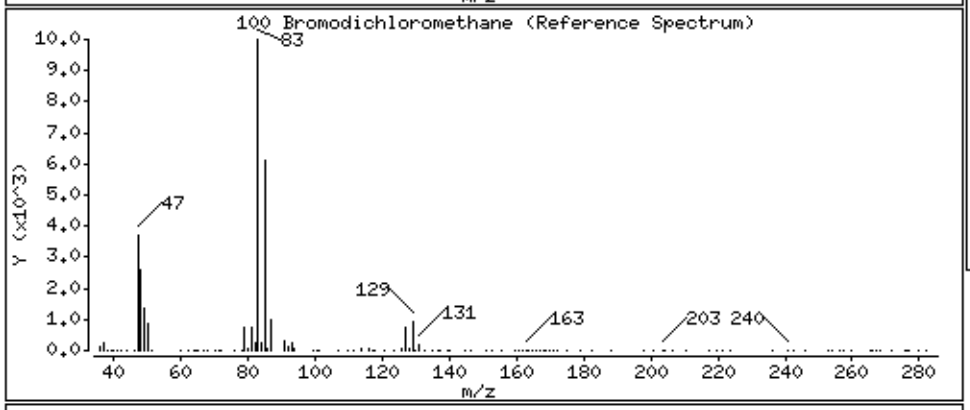
Concentration: 178.14 PPBV

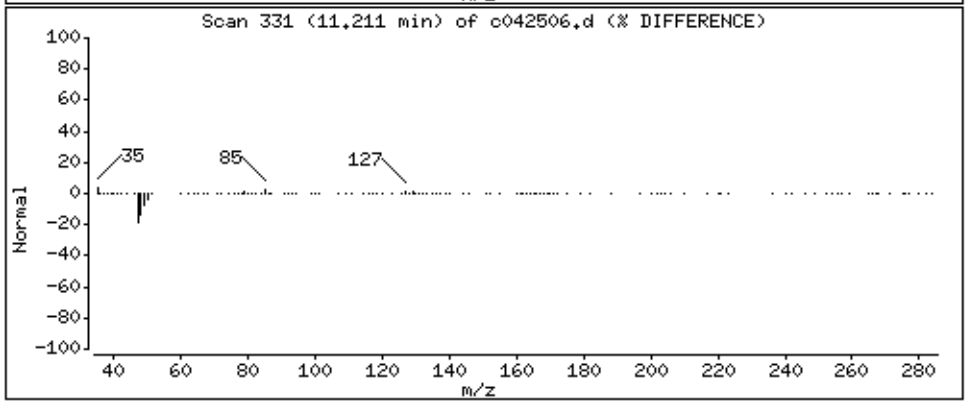












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

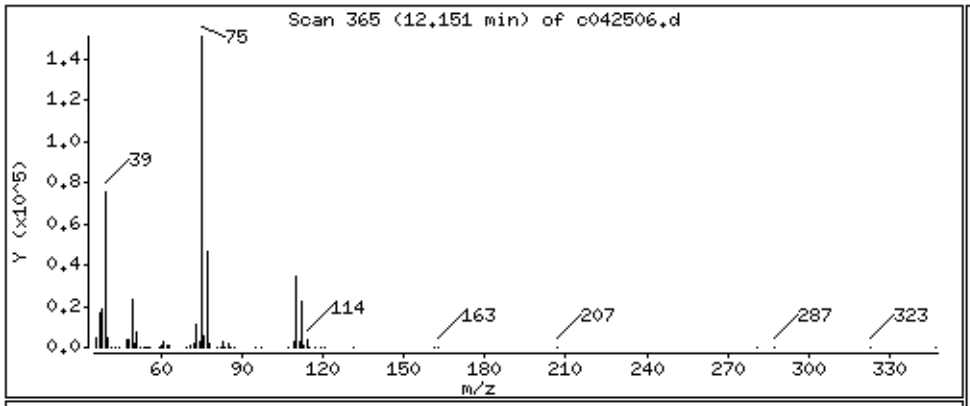
Operator: JP

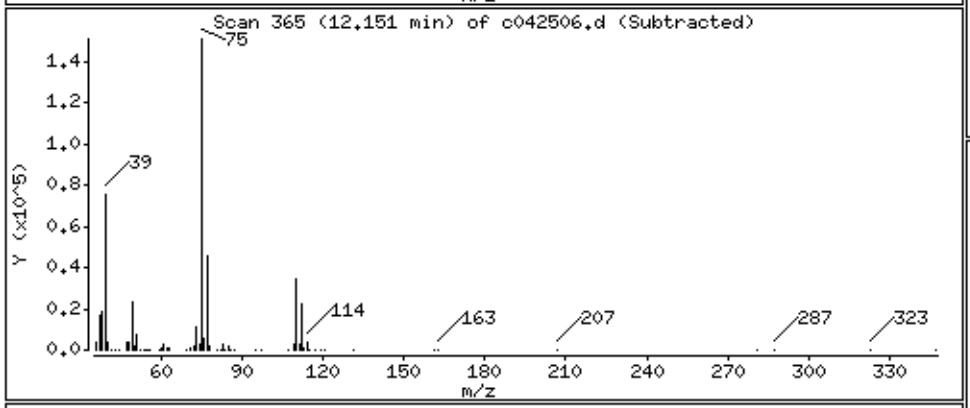
Column phase: RTx-624

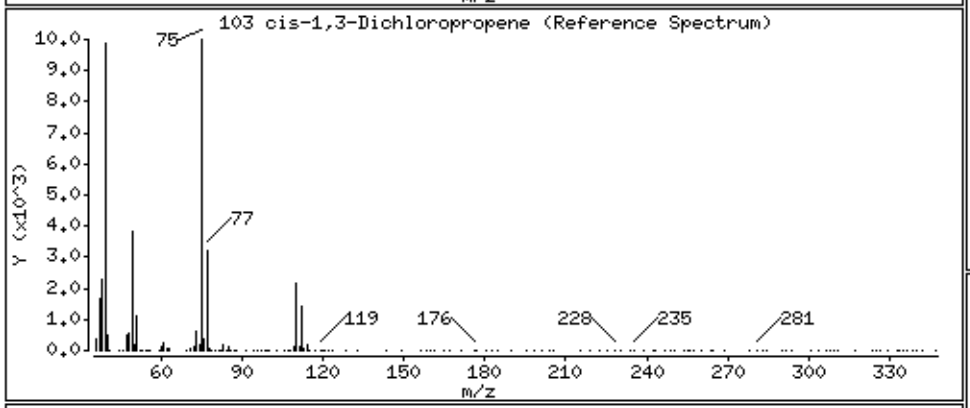
Column diameter: 0.53

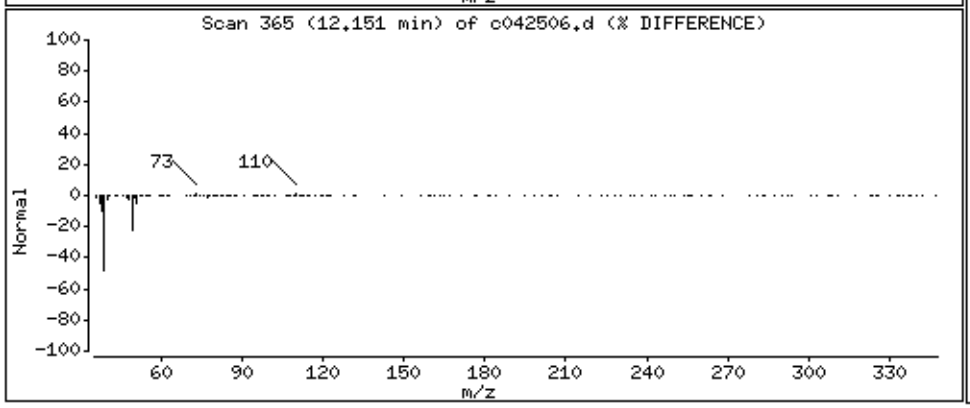
103 cis-1,3-Dichloropropene

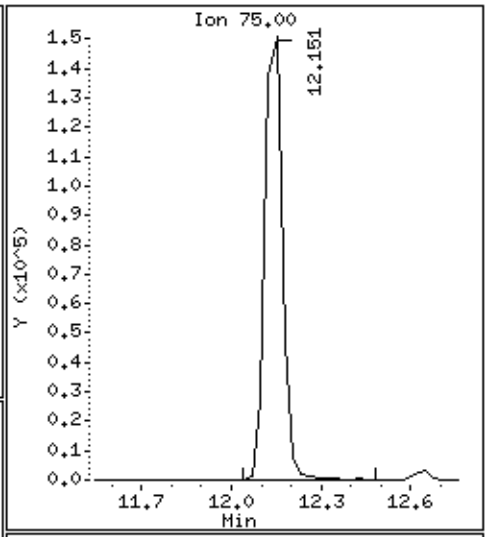
Concentration: 180.54 PPBV

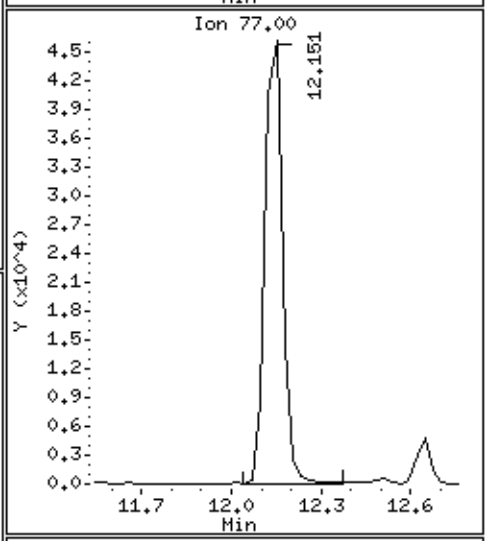


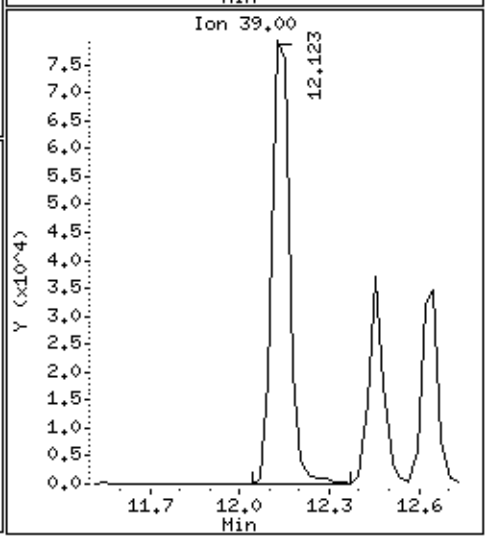












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

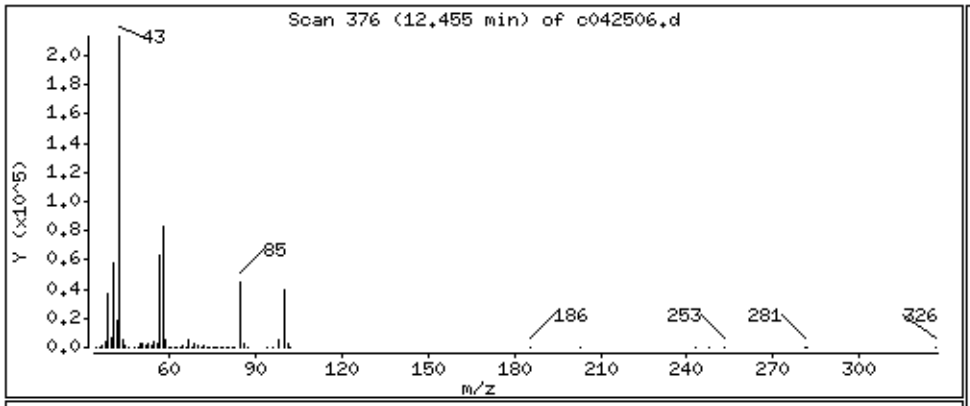
Operator: JP

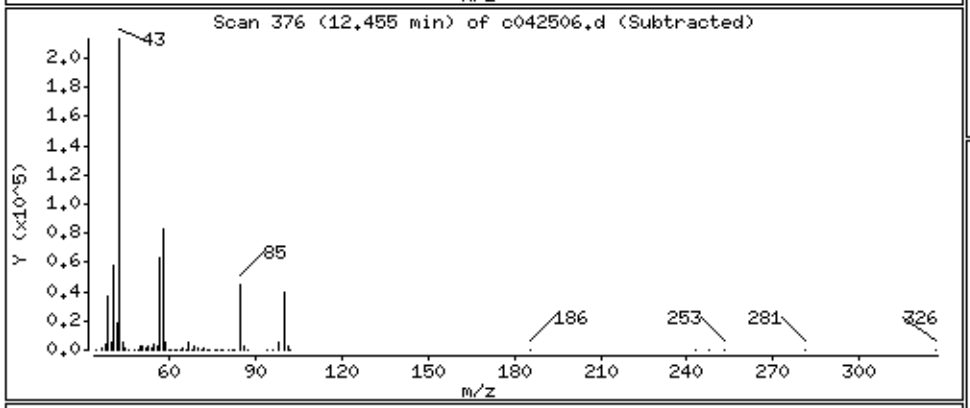
Column phase: RTx-624

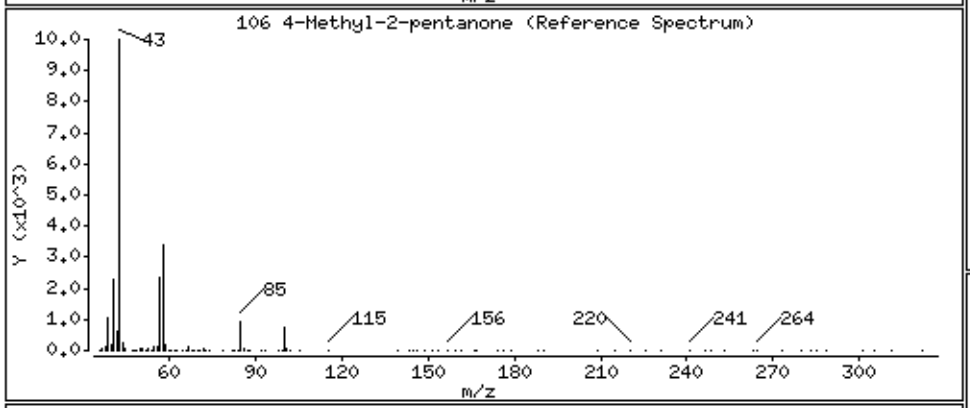
Column diameter: 0.53

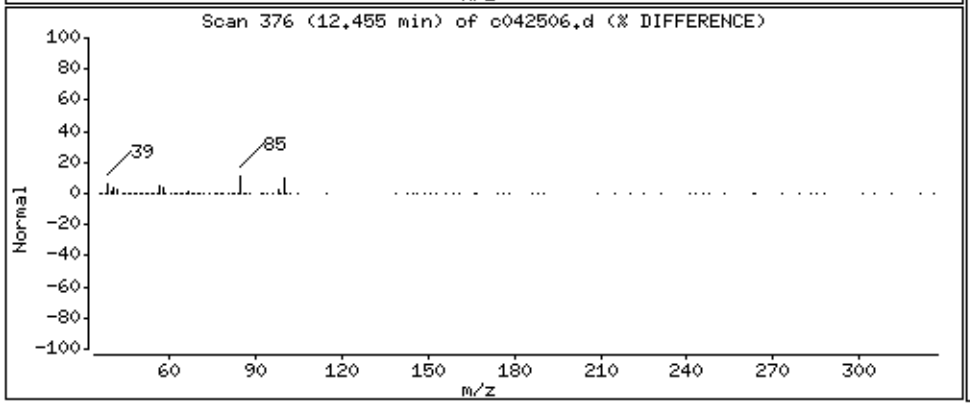
106 4-Methyl-2-pentanone

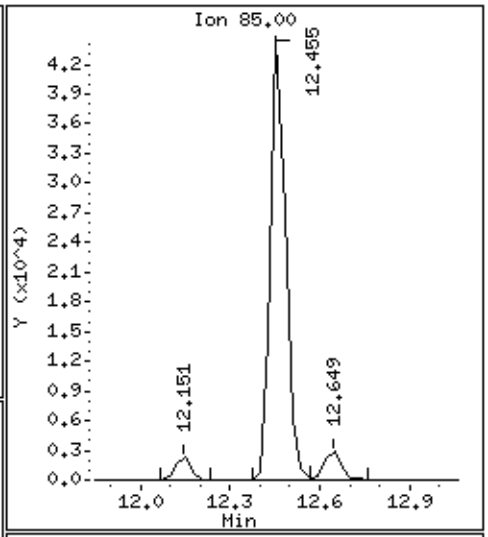
Concentration: 172.61 PPBV

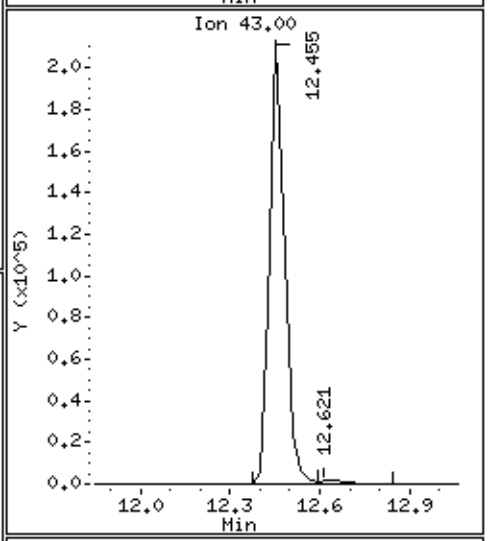


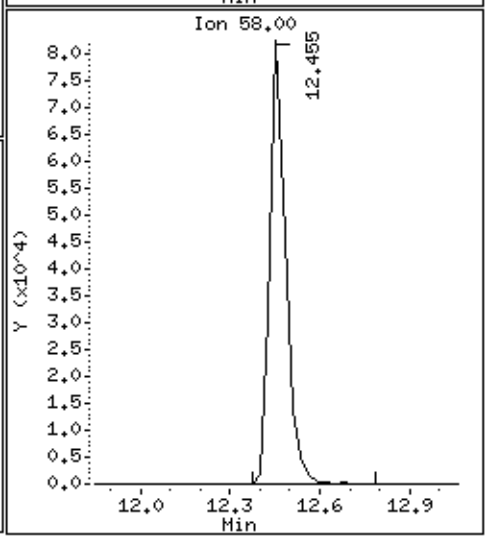












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

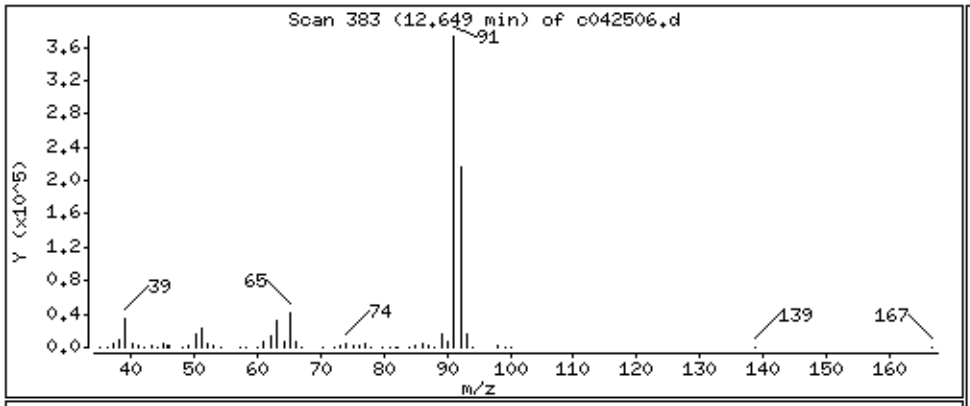
Operator: JP

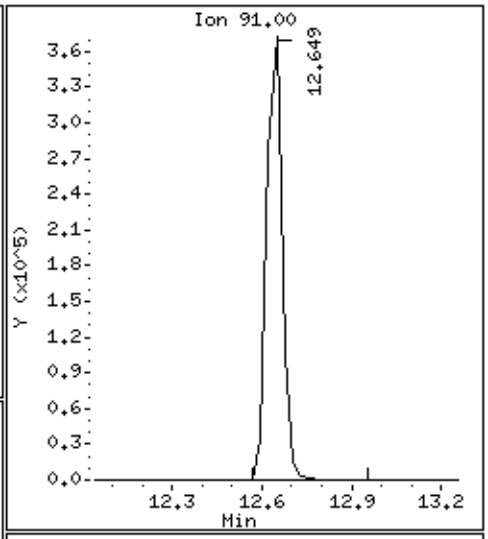
Column phase: RTx-624

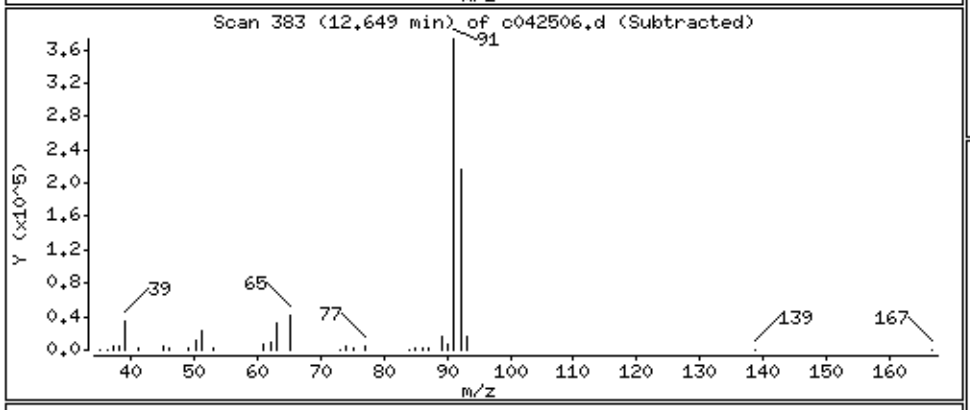
Column diameter: 0.53

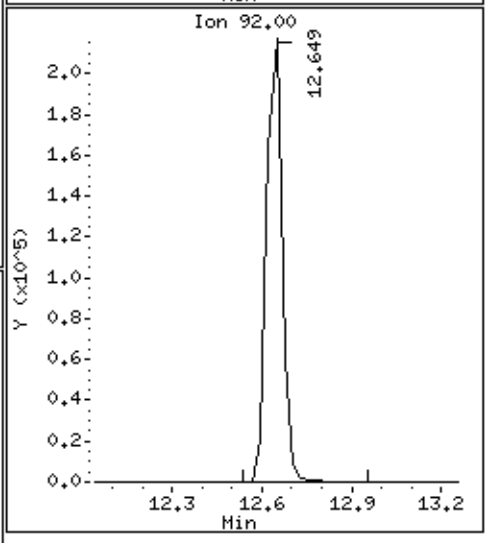
108 Toluene

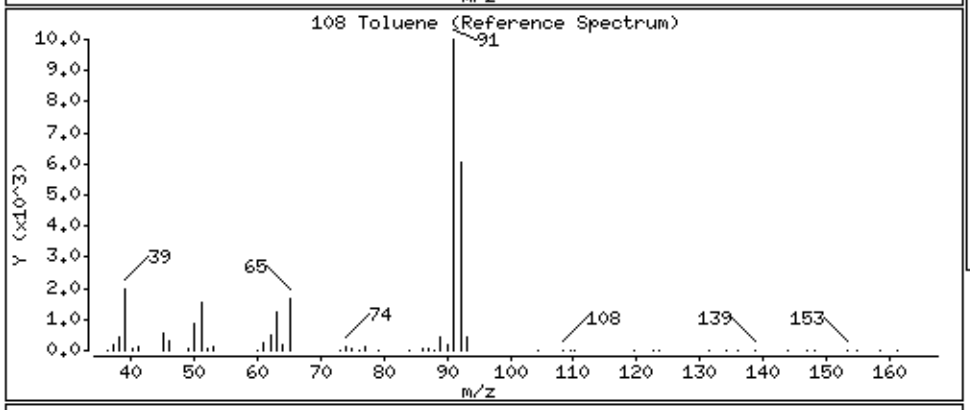
Concentration: 178.41 PPBV

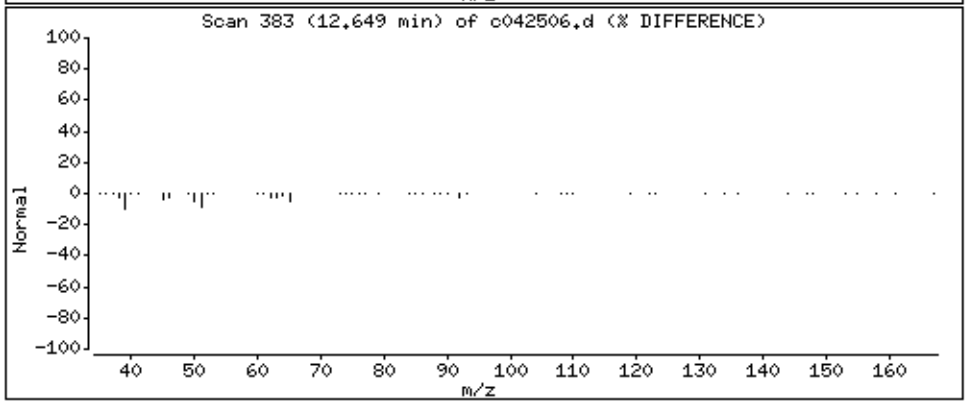












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

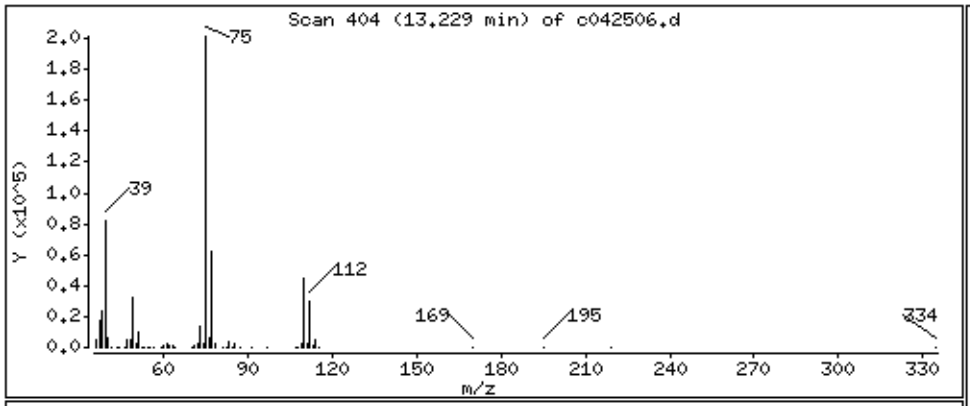
Operator: JP

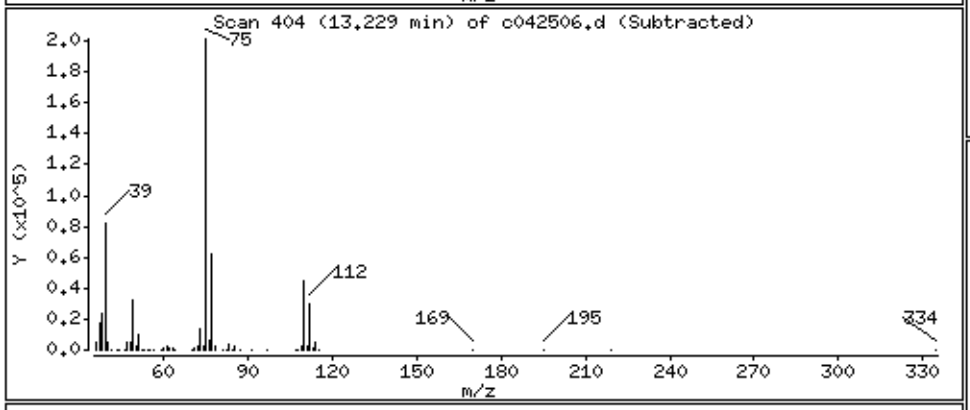
Column phase: RTx-624

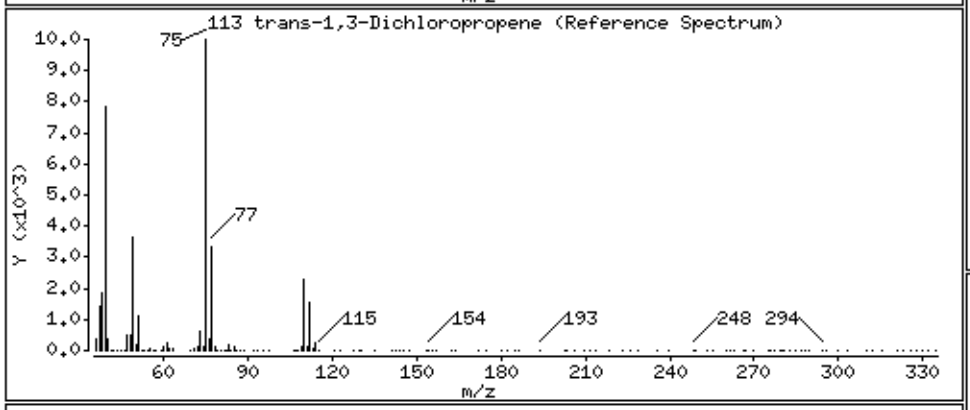
Column diameter: 0.53

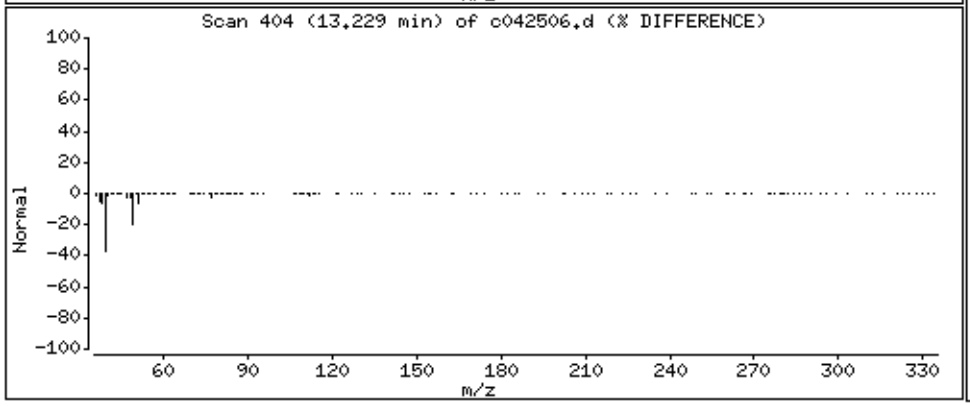
113 trans-1,3-Dichloropropene

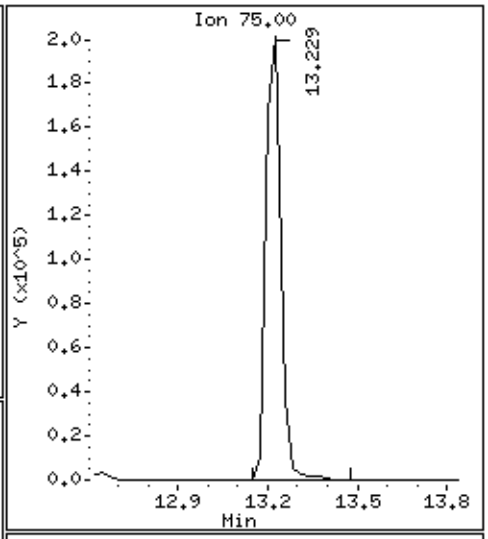
Concentration: 179.90 PPBV

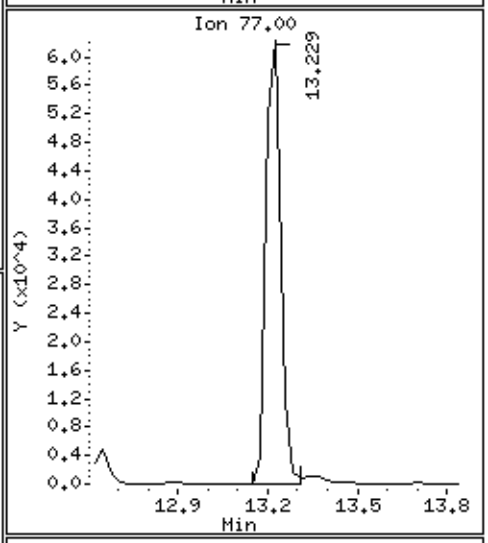


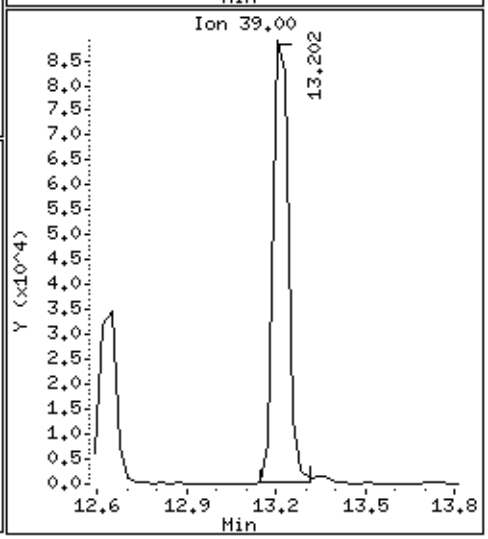












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

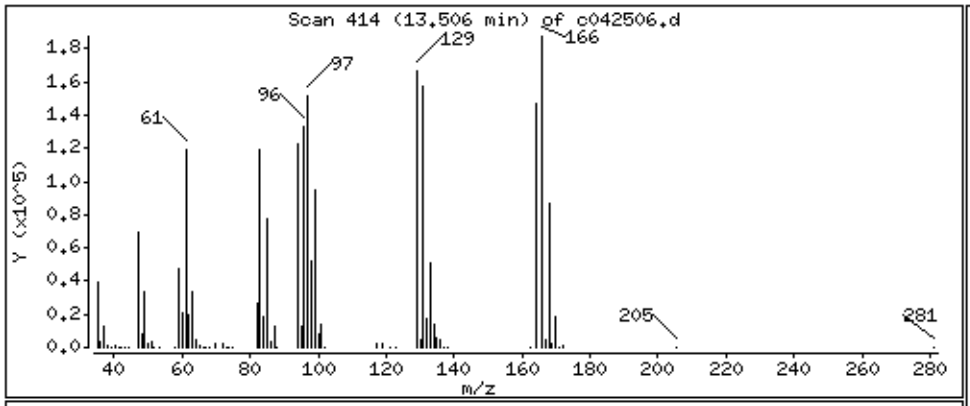
Operator: JP

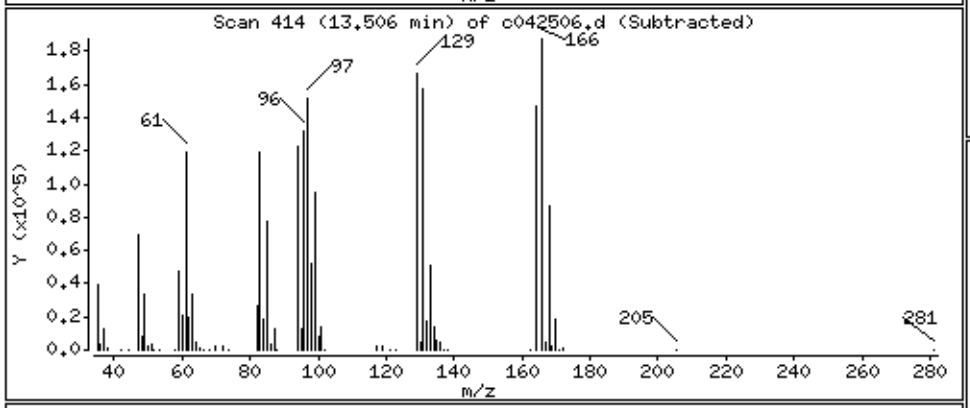
Column phase: RTx-624

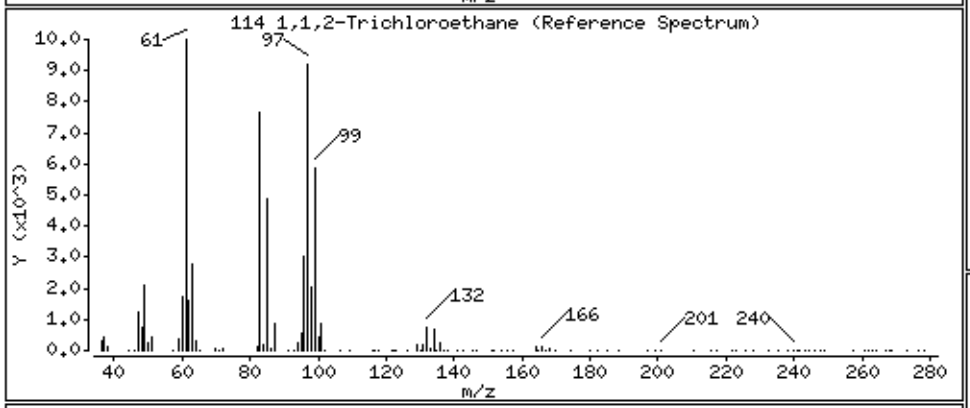
Column diameter: 0.53

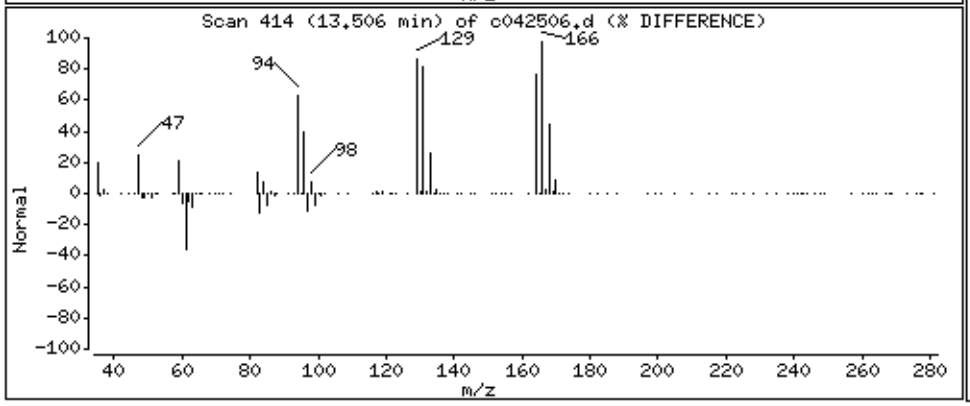
114 1,1,2-Trichloroethane

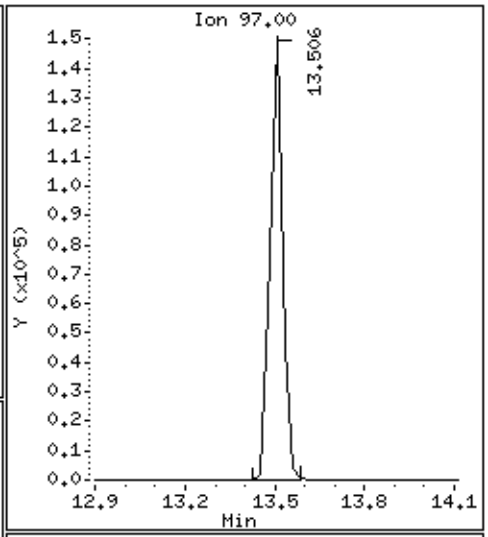
Concentration: 172.23 PPBV

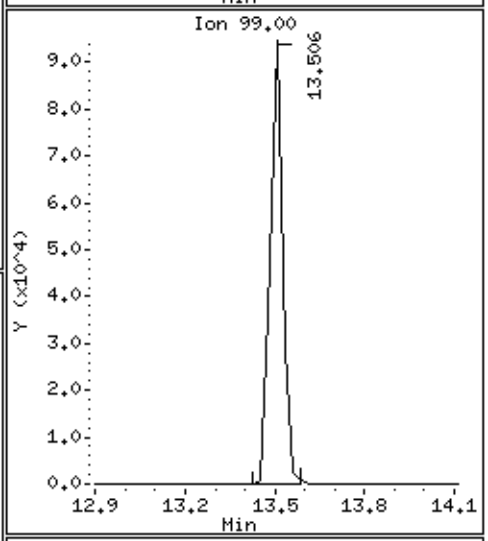


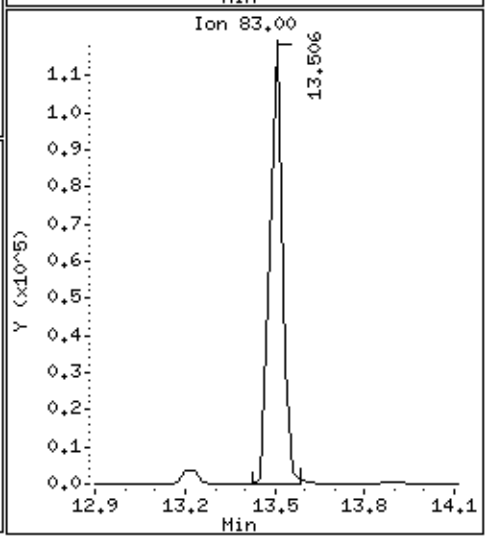












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

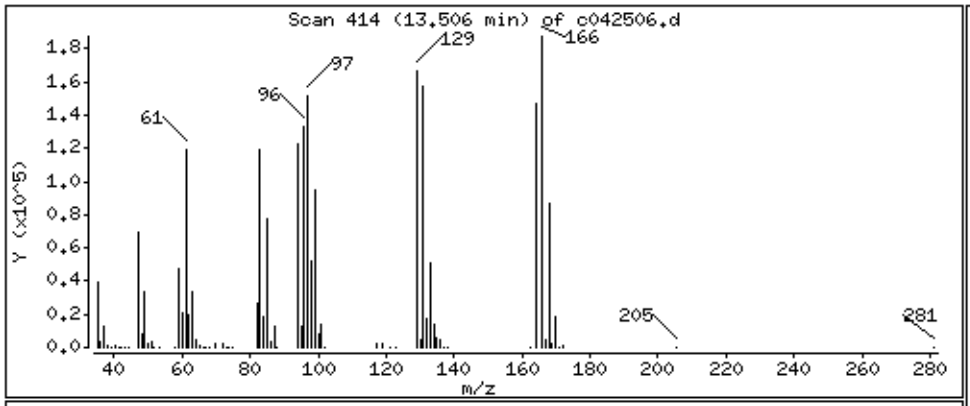
Operator: JP

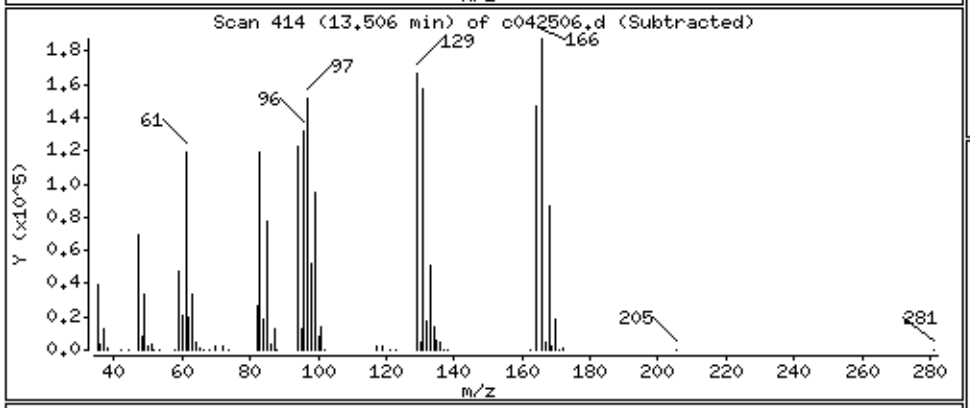
Column phase: RTx-624

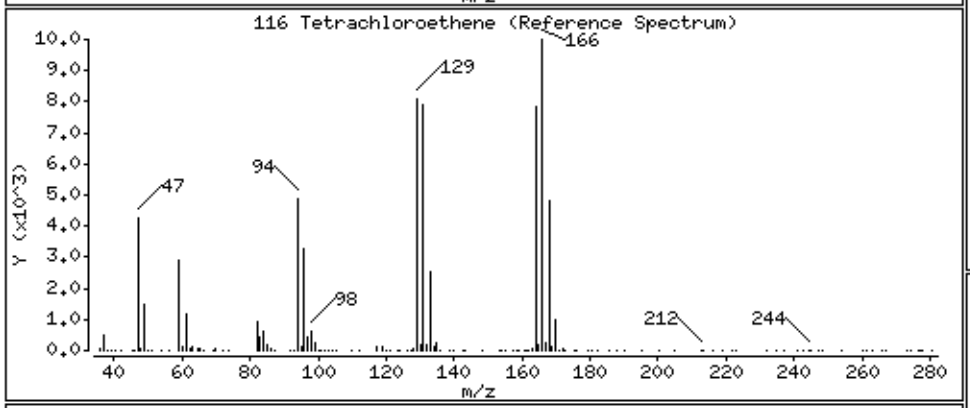
Column diameter: 0.53

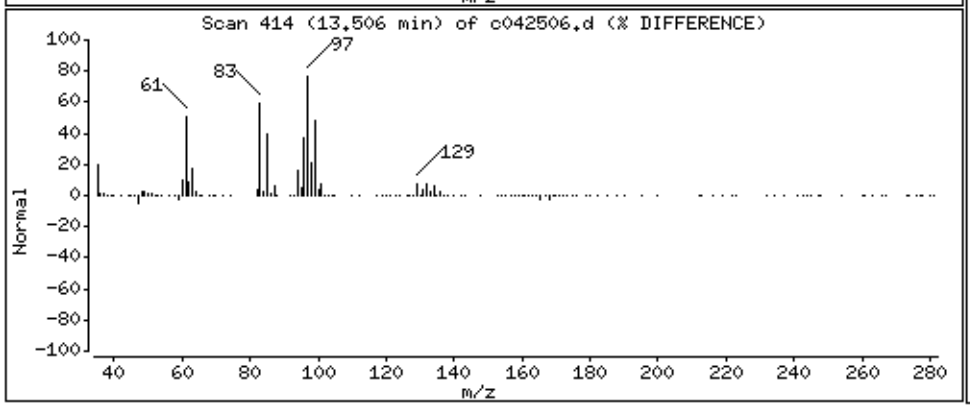
116 Tetrachloroethene

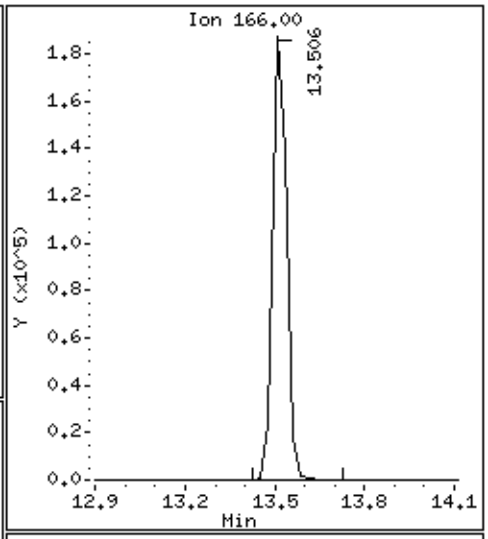
Concentration: 173.12 PPBV

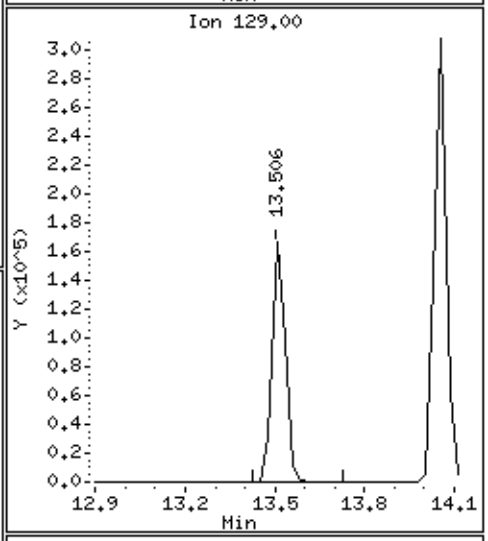


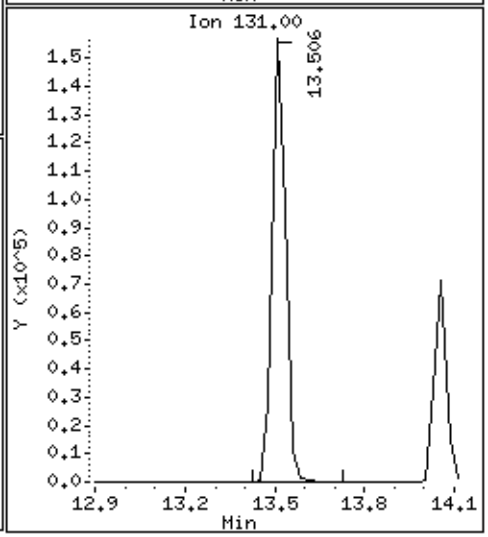












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

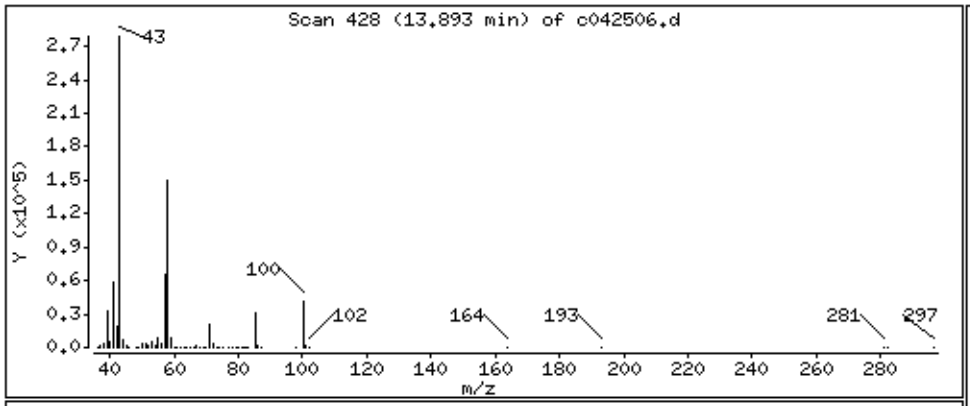
Operator: JP

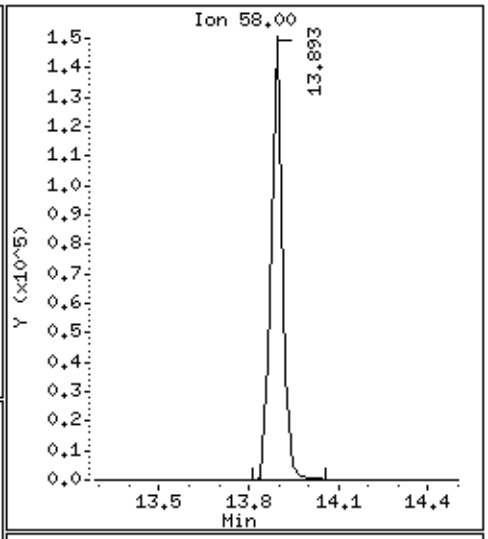
Column phase: RTx-624

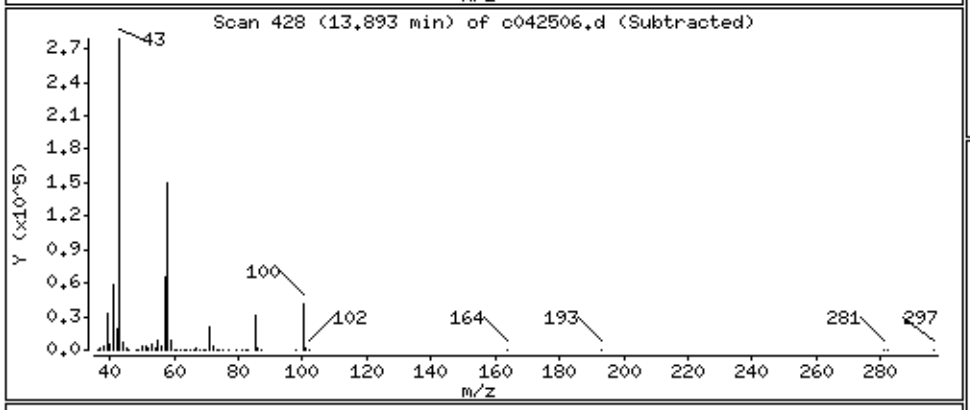
Column diameter: 0.53

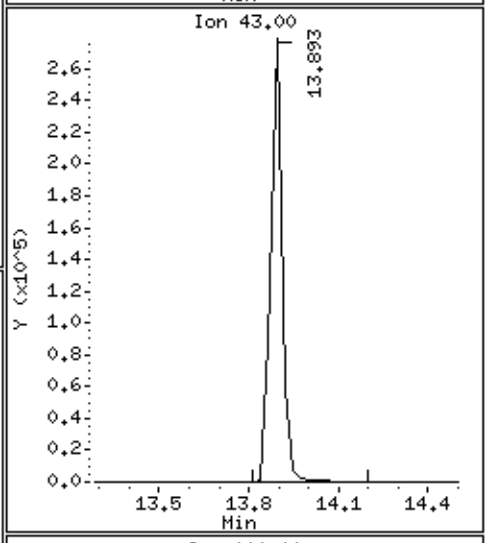
119 2-Hexanone

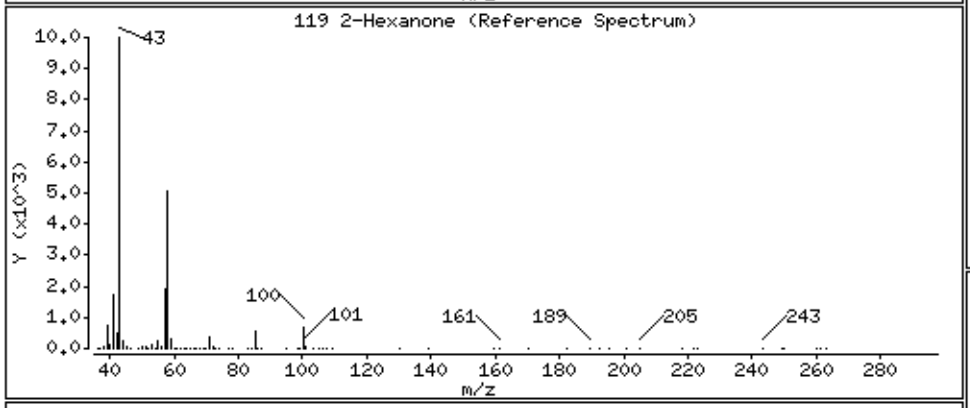
Concentration: 175.90 PPBV

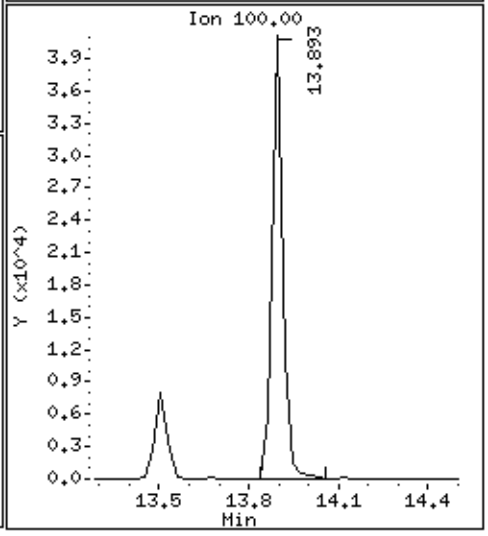


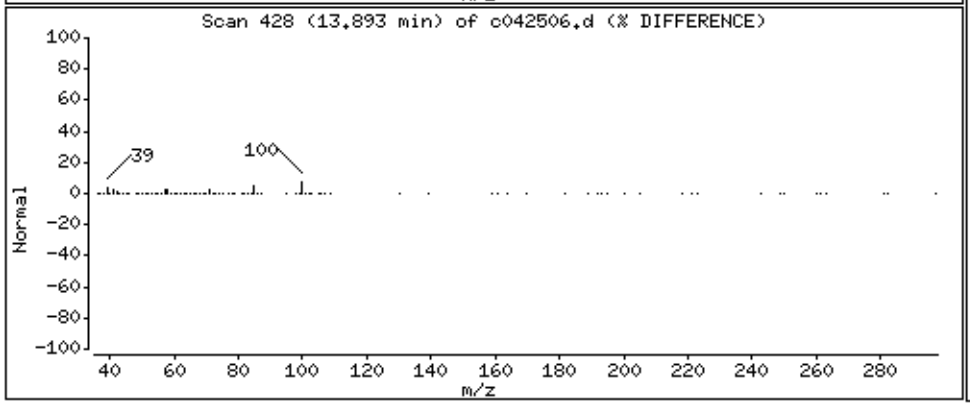












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

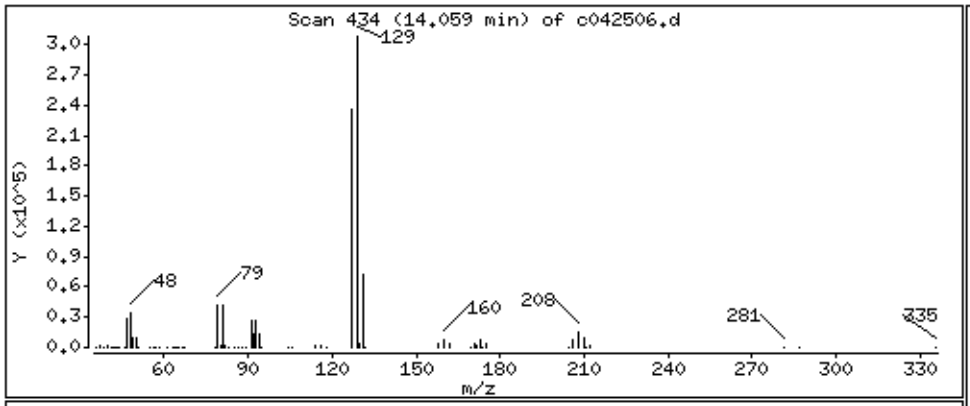
Operator: JP

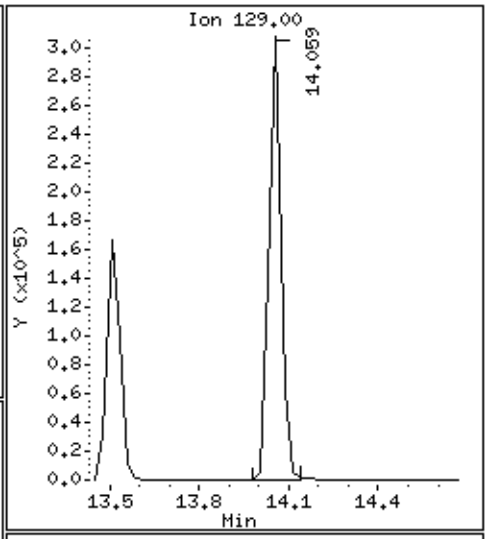
Column phase: RTx-624

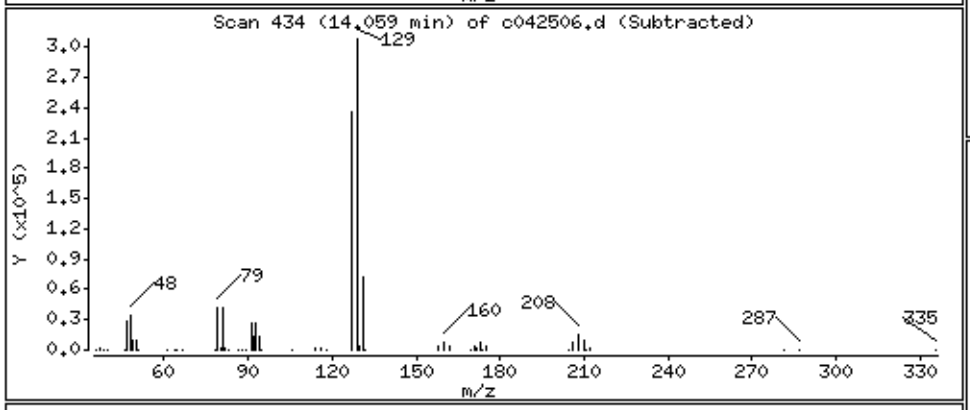
Column diameter: 0.53

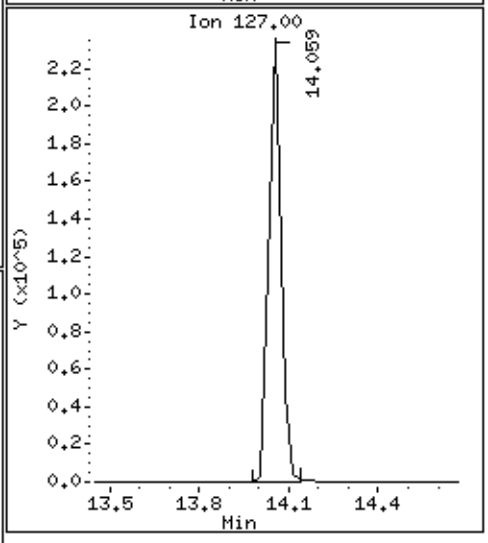
120 Dibromochloromethane

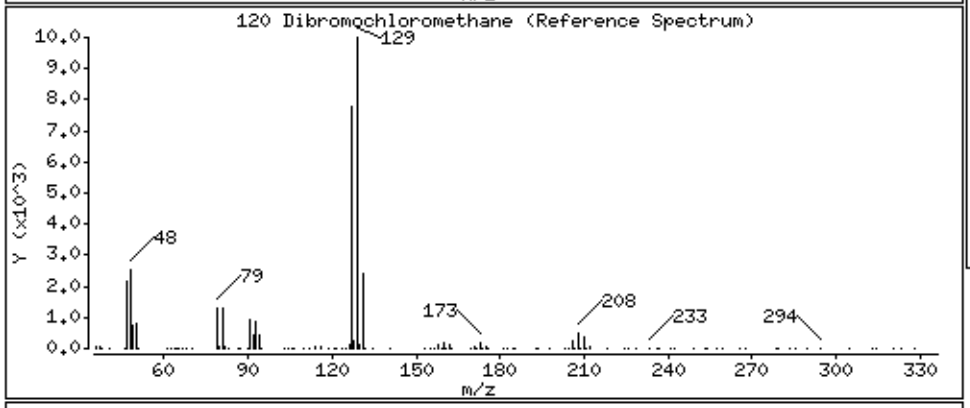
Concentration: 182.96 PPBV

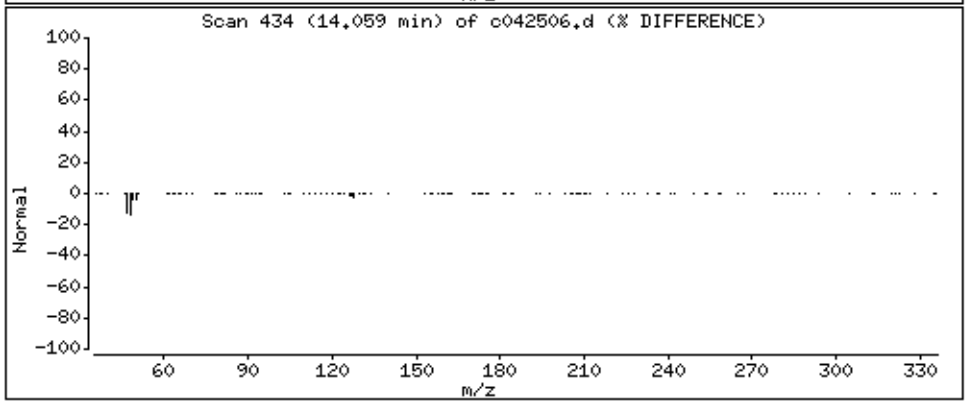












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

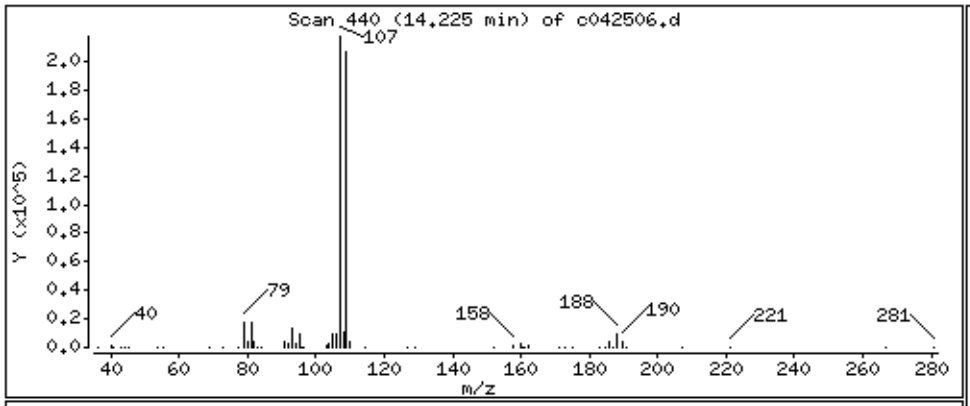
Operator: JP

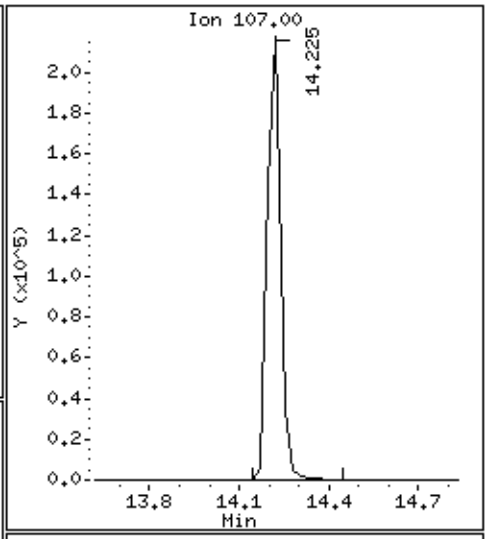
Column phase: RTx-624

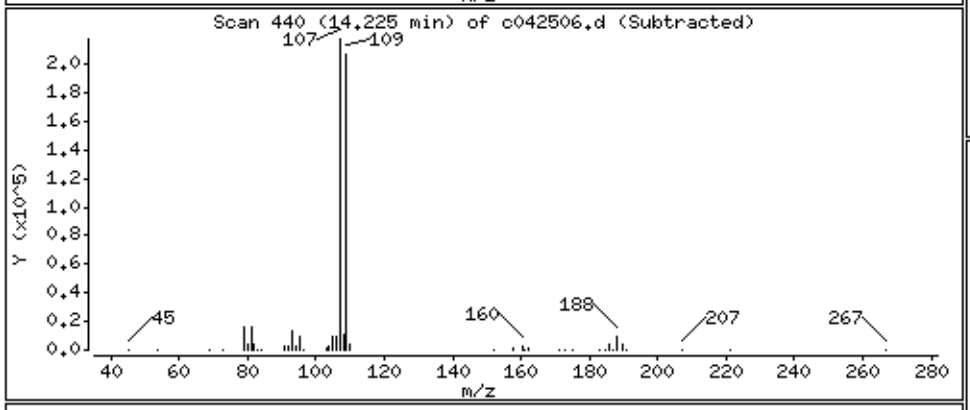
Column diameter: 0.53

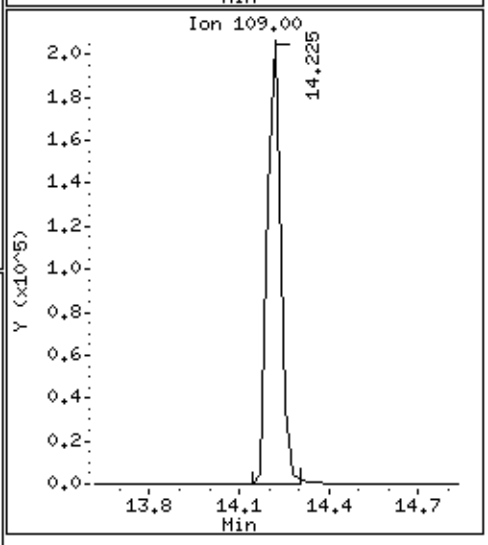
122 1,2-Dibromoethane

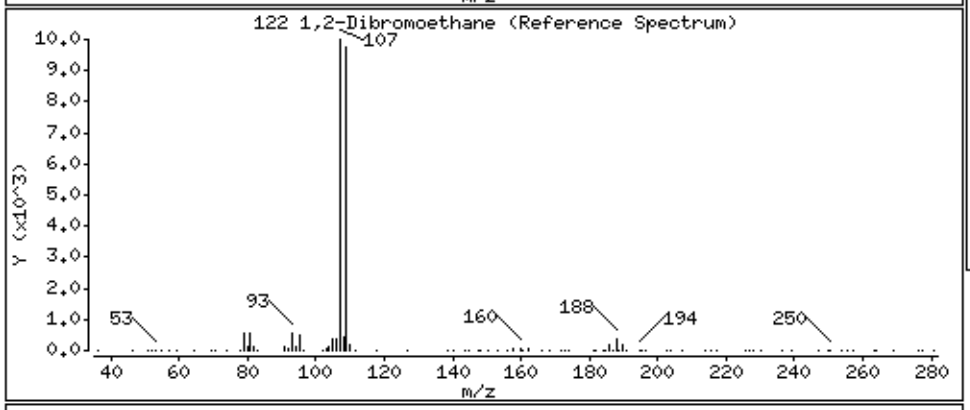
Concentration: 172.88 PPBV

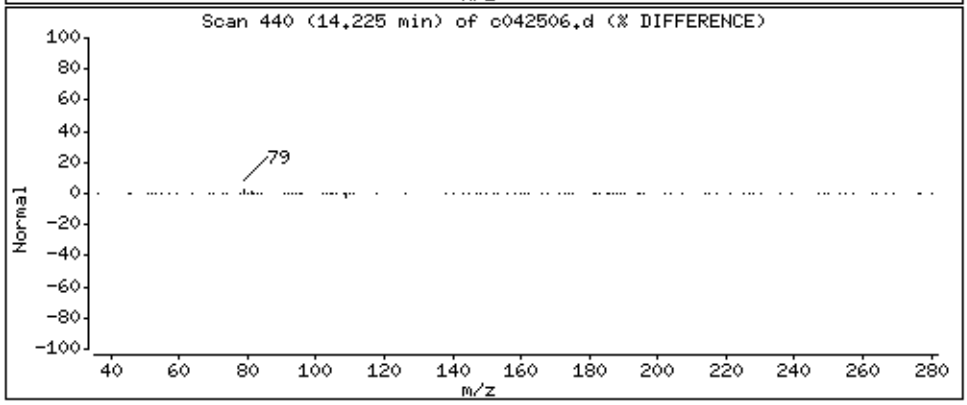












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

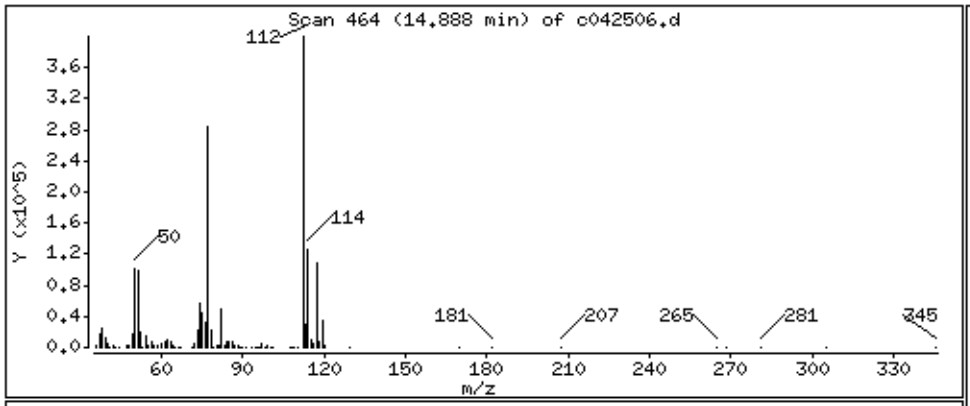
Operator: JP

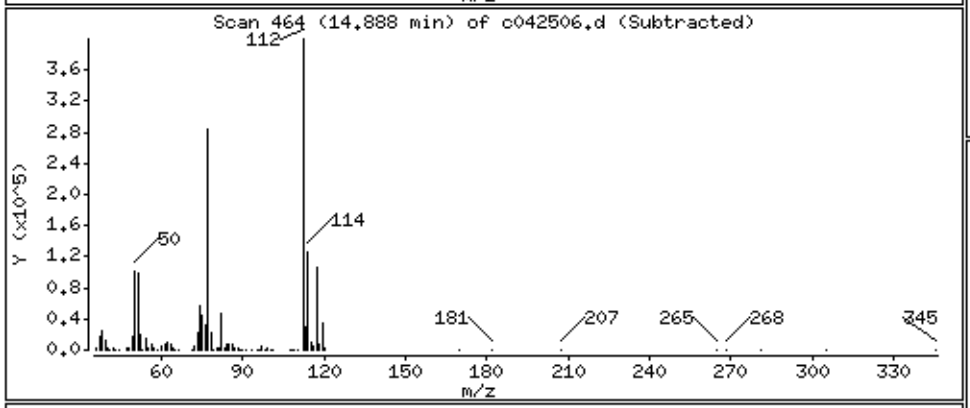
Column phase: RTx-624

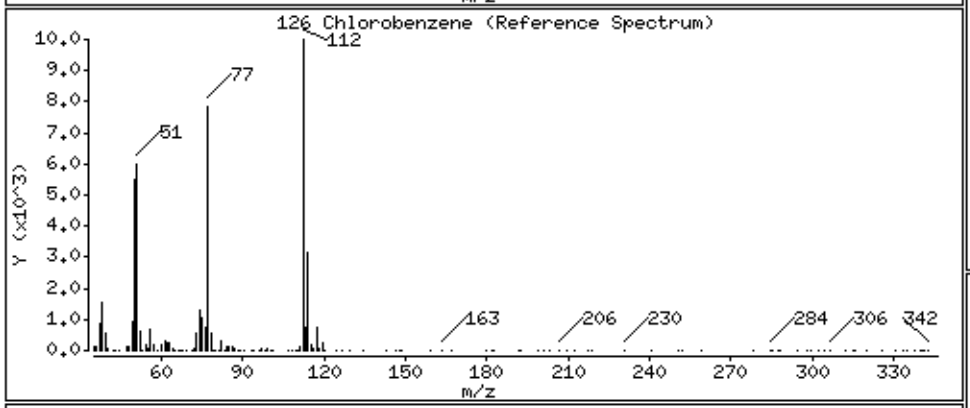
Column diameter: 0.53

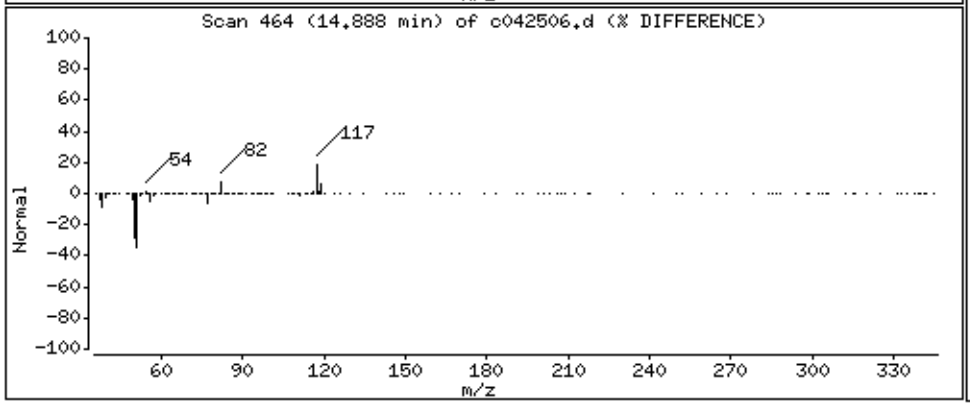
126 Chlorobenzene

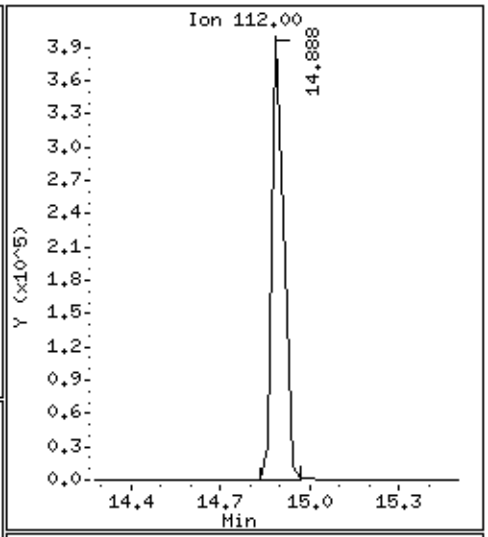
Concentration: 174.10 PPBV

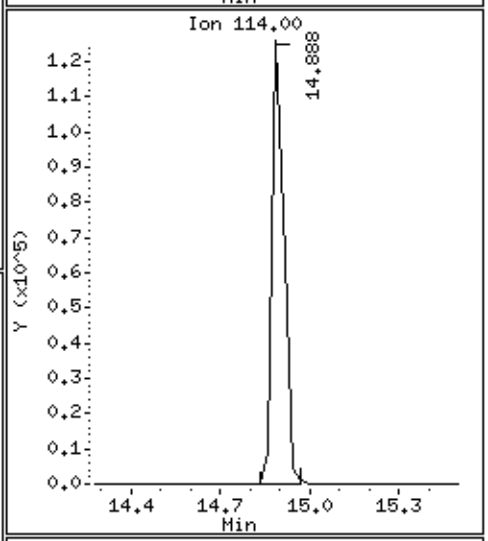


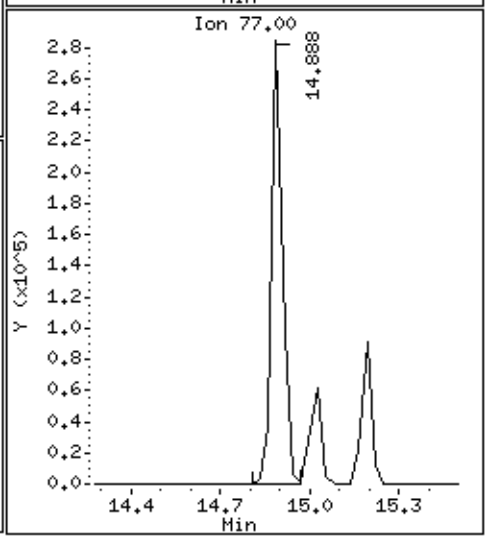












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

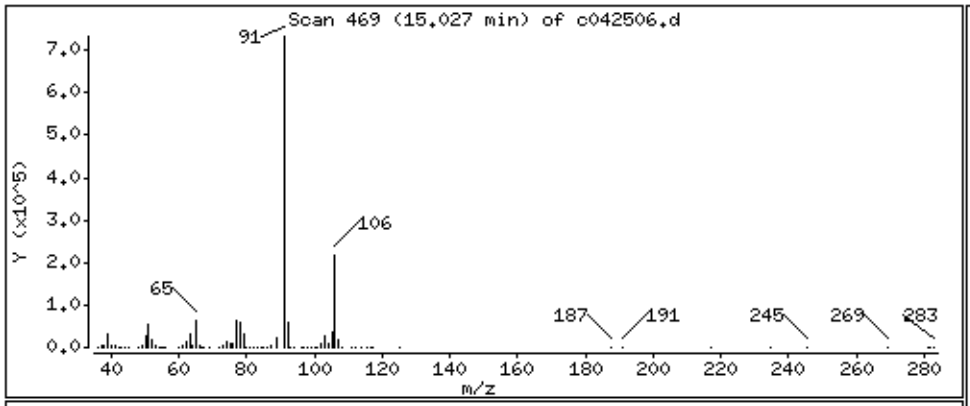
Operator: JP

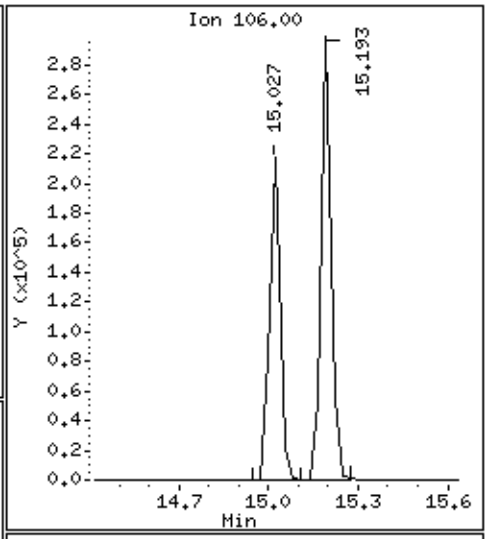
Column phase: RTx-624

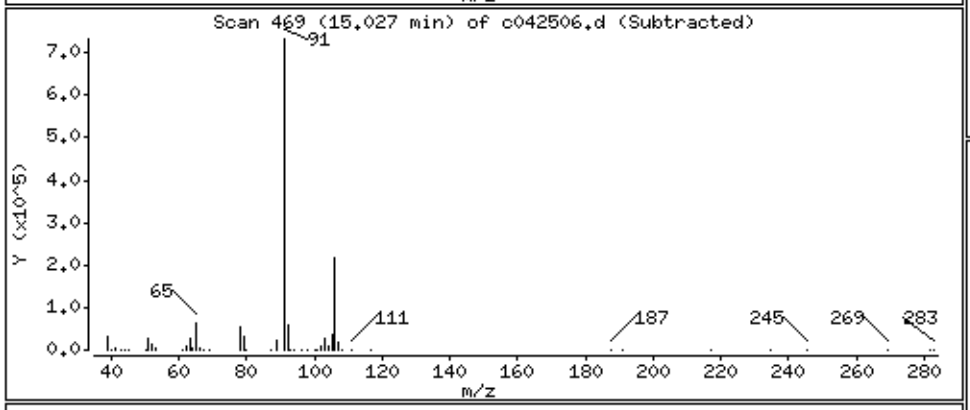
Column diameter: 0.53

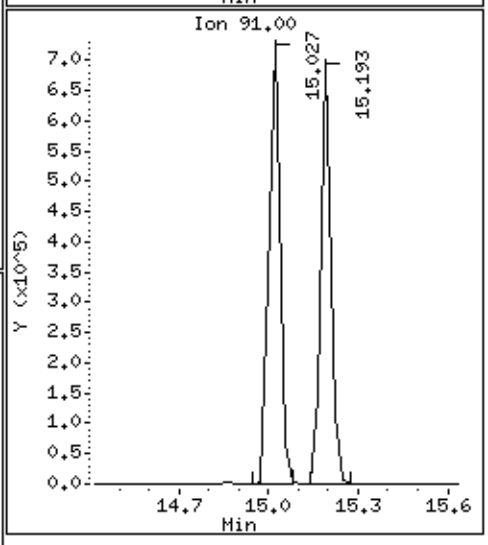
128 Ethyl Benzene

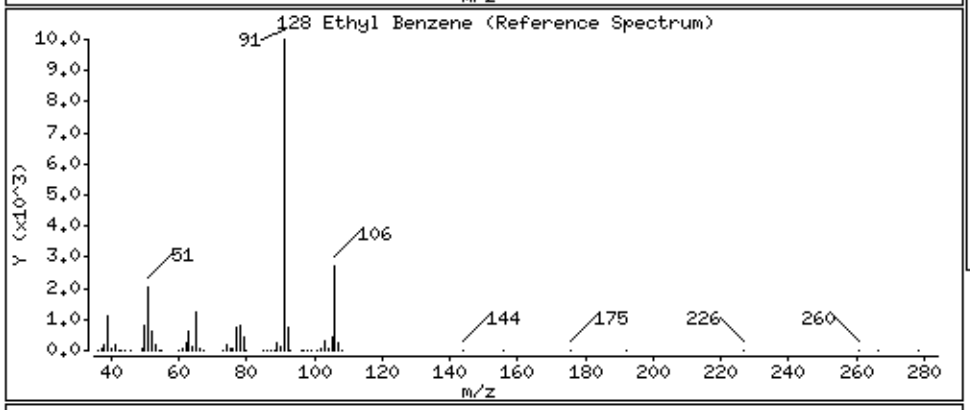
Concentration: 171.05 PPBV

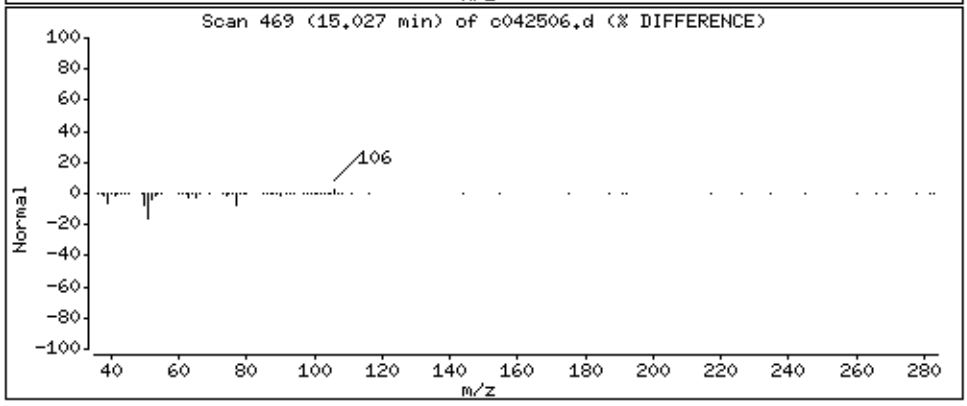












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

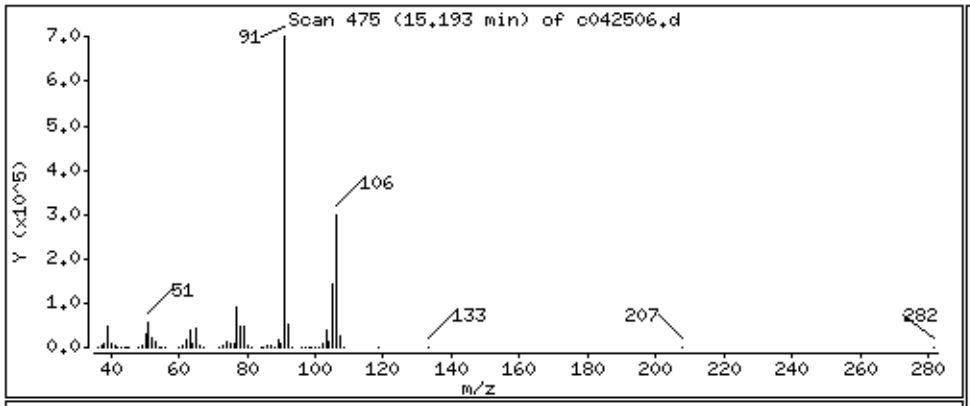
Operator: JP

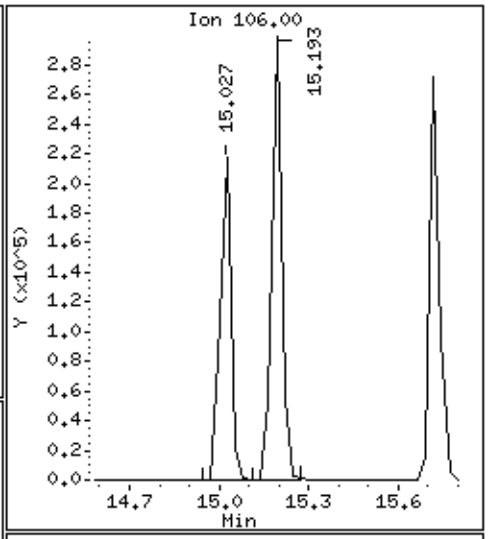
Column phase: RTx-624

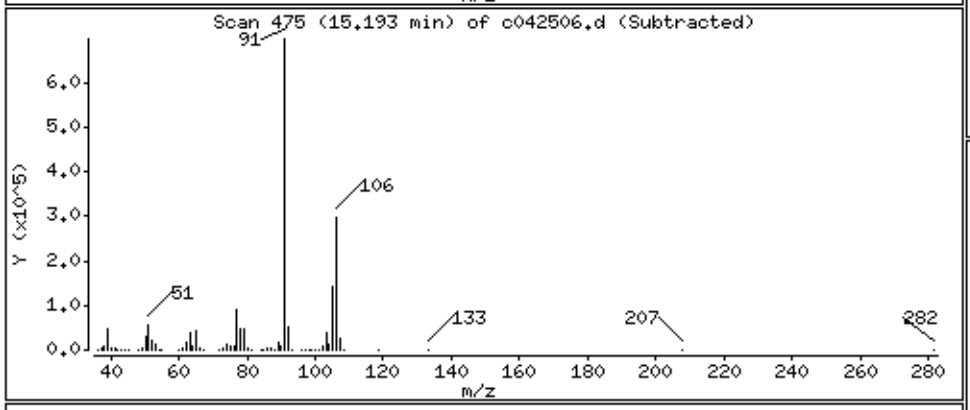
Column diameter: 0.53

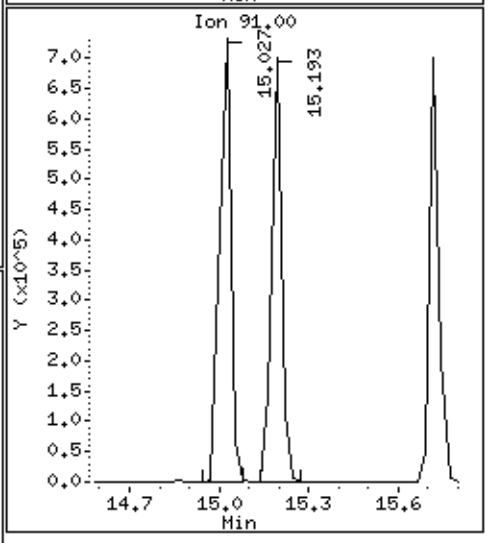
130 m,p-Xylene

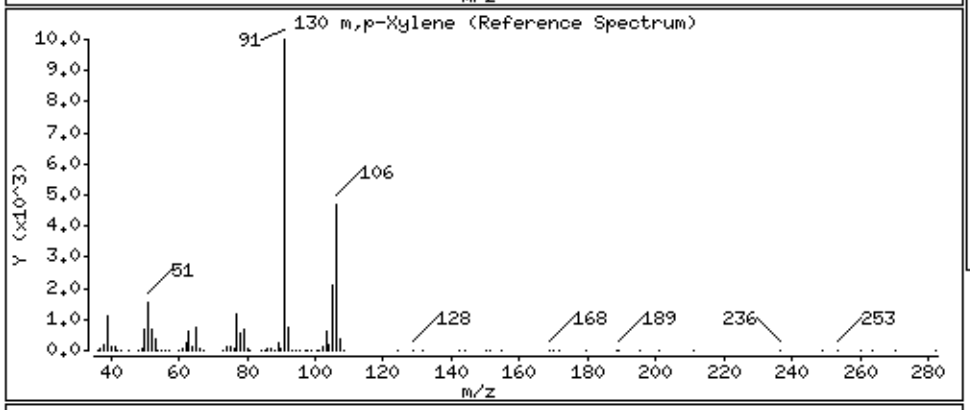
Concentration: 171.19 PPBV

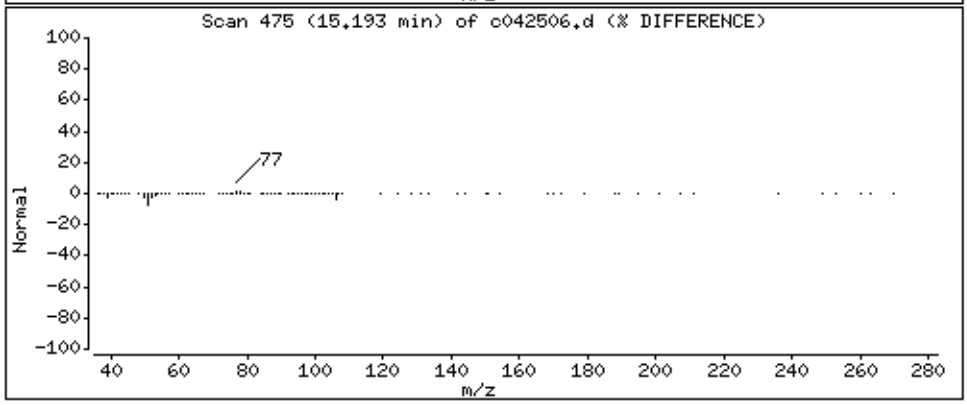












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

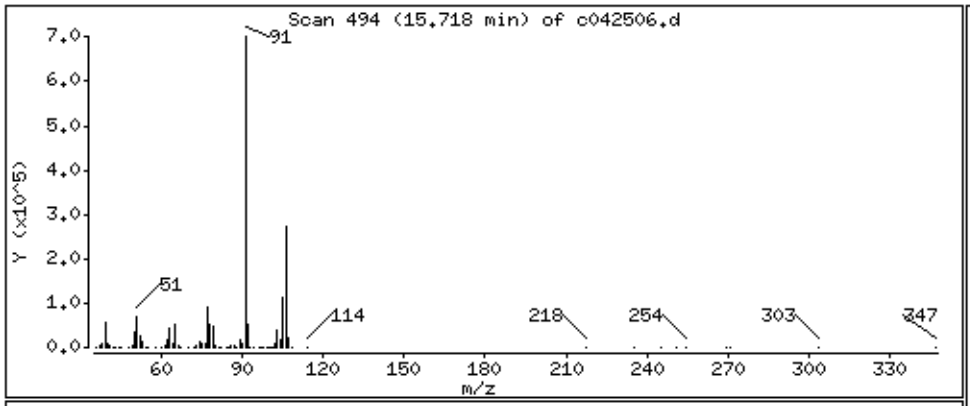
Operator: JP

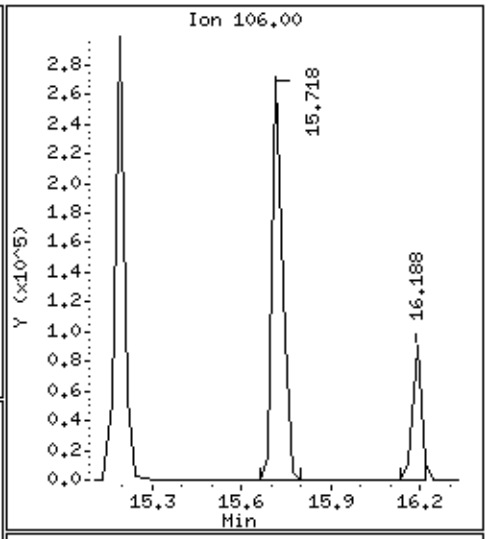
Column phase: RTx-624

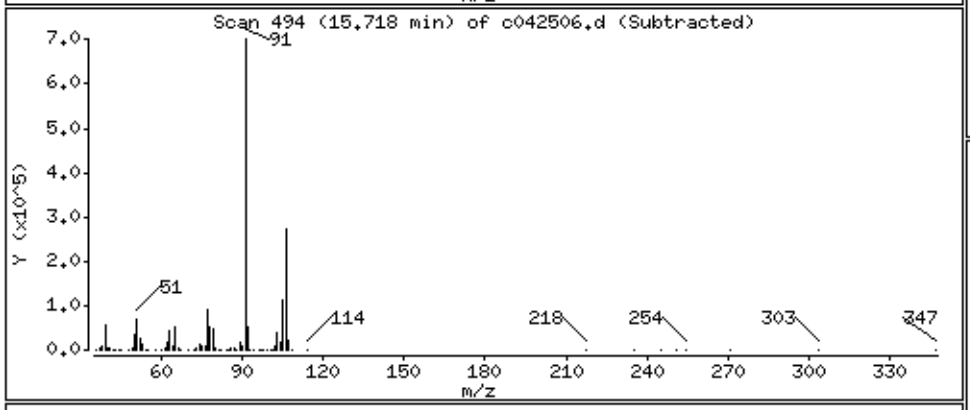
Column diameter: 0.53

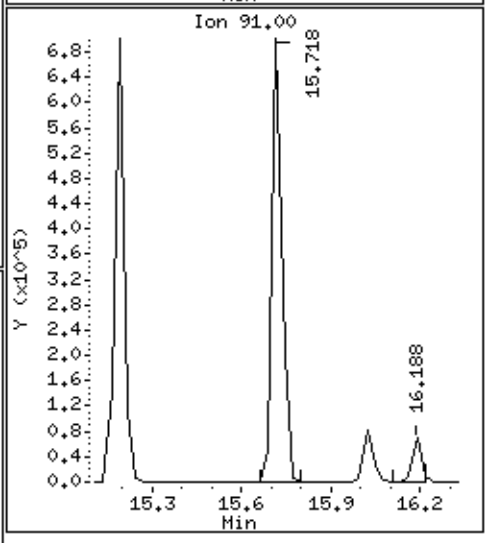
132 o-Xylene

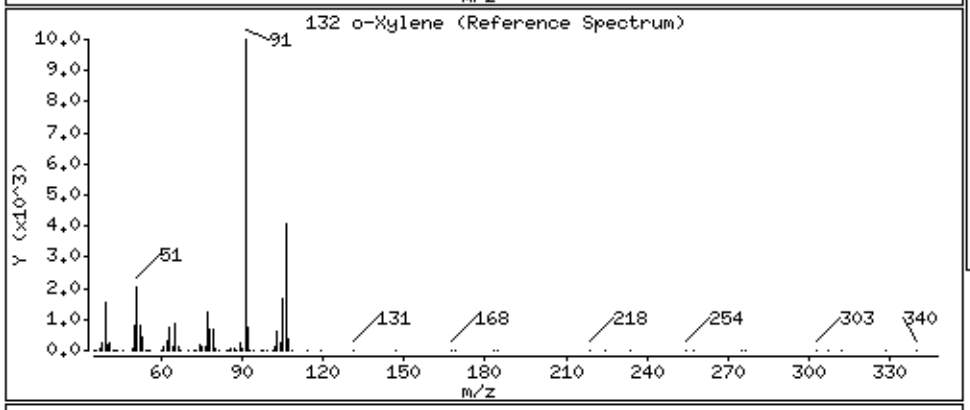
Concentration: 174.13 PPBV

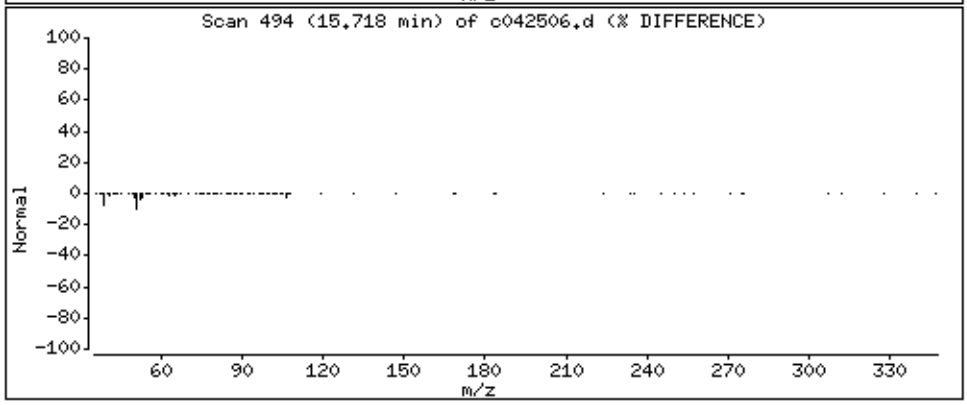












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

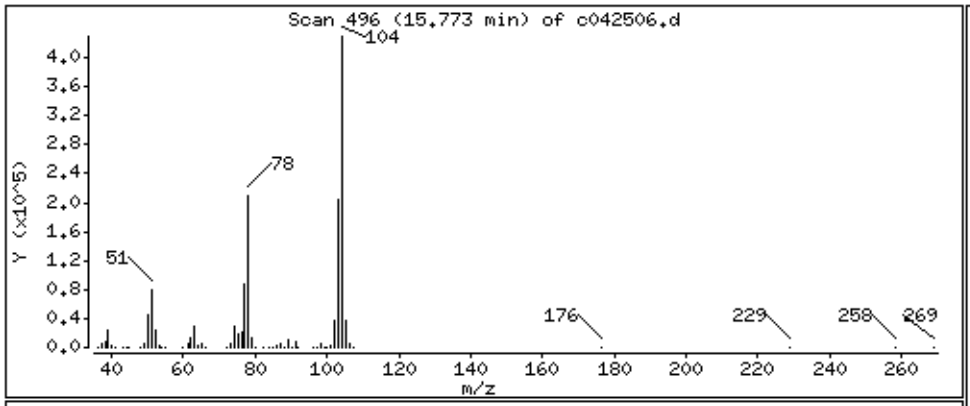
Operator: JP

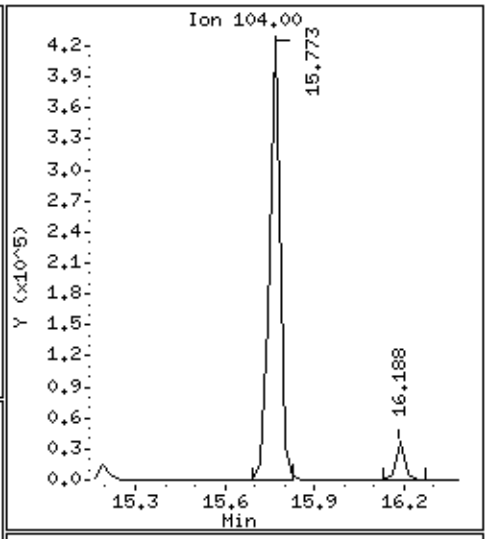
Column phase: RTx-624

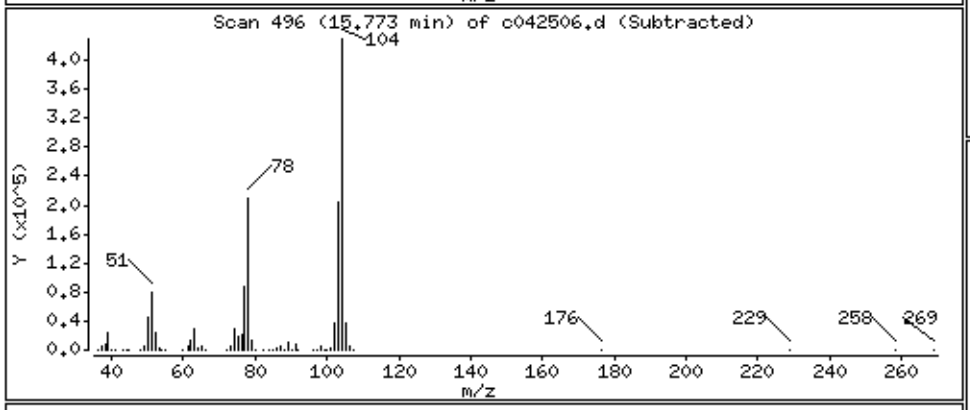
Column diameter: 0.53

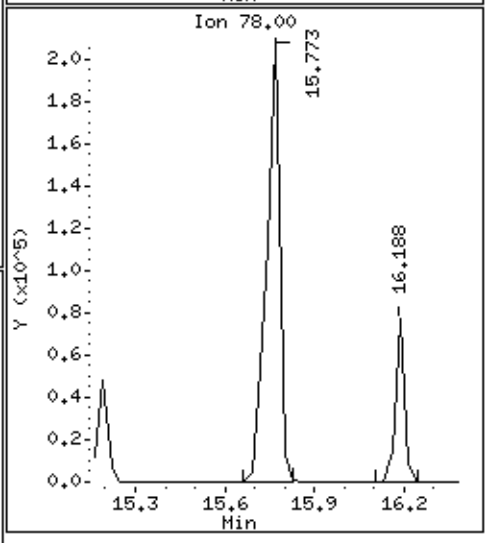
133 Styrene

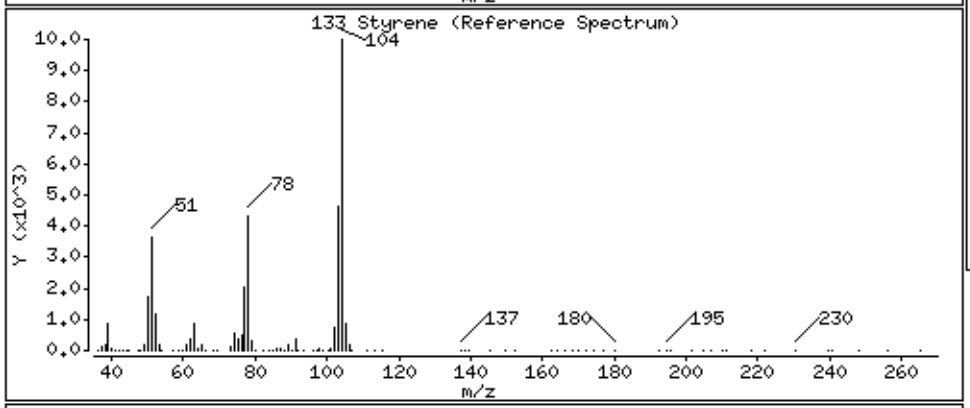
Concentration: 184.39 PPBV

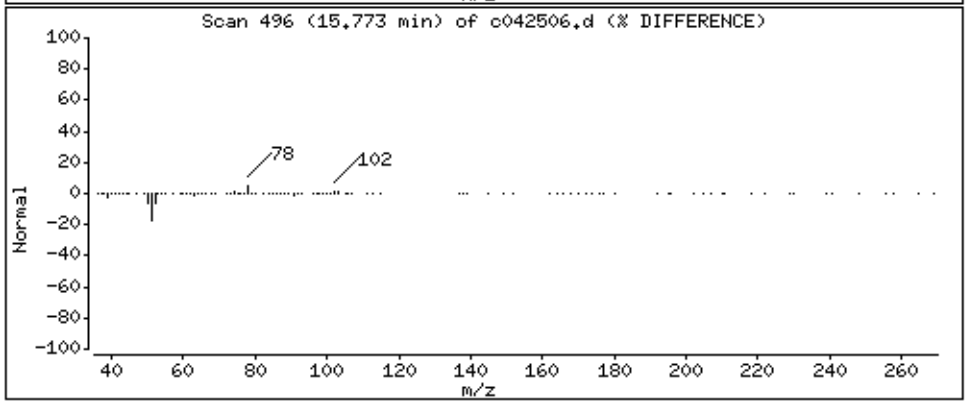












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

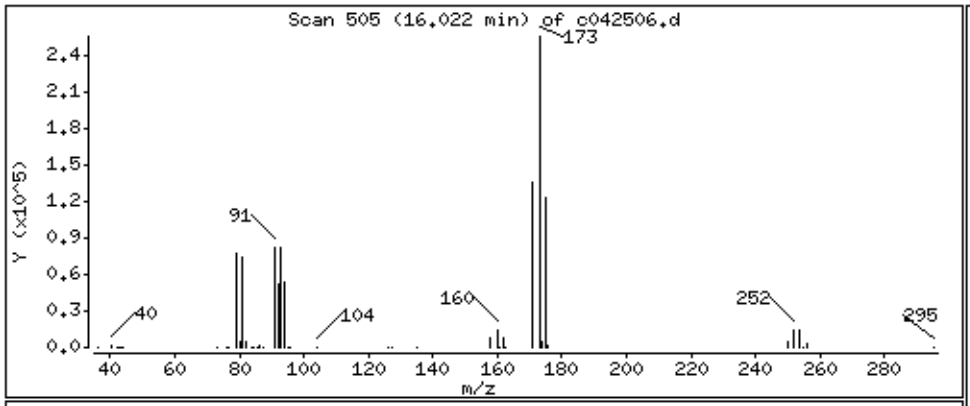
Operator: JP

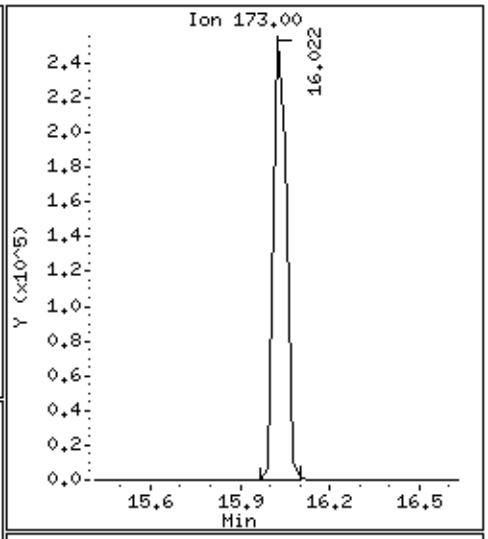
Column phase: RTx-624

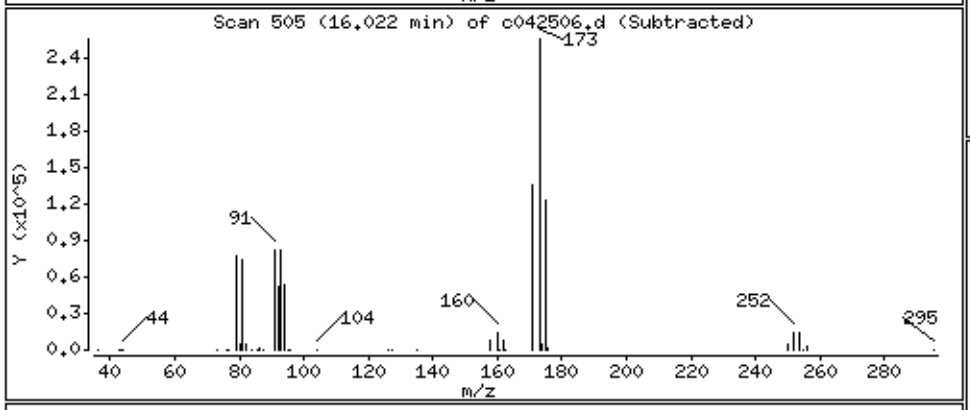
Column diameter: 0.53

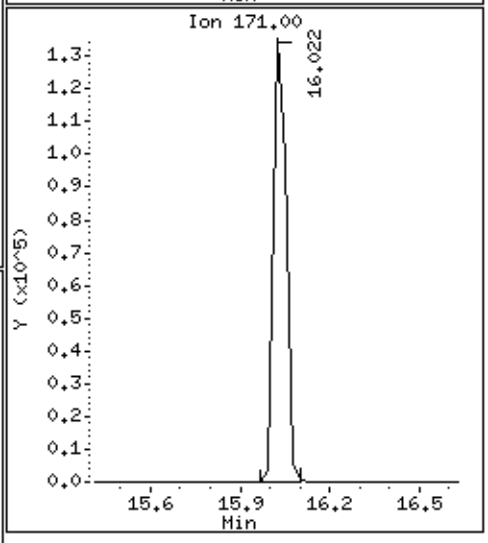
134 Bromoform

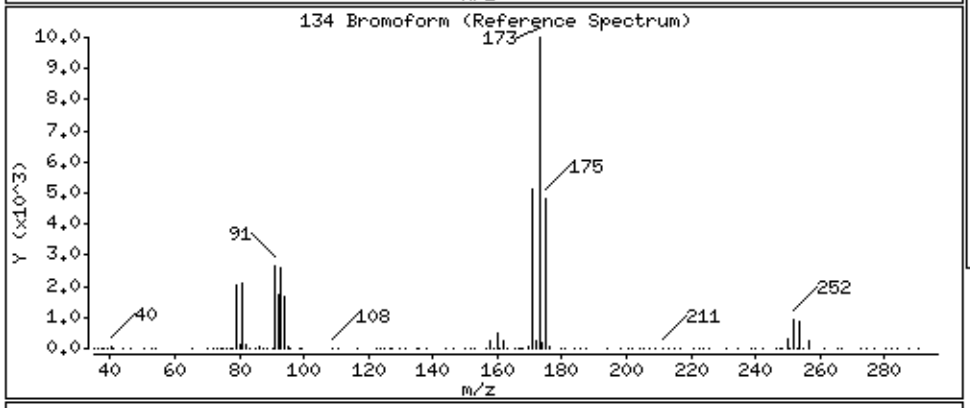
Concentration: 180.70 PPBV

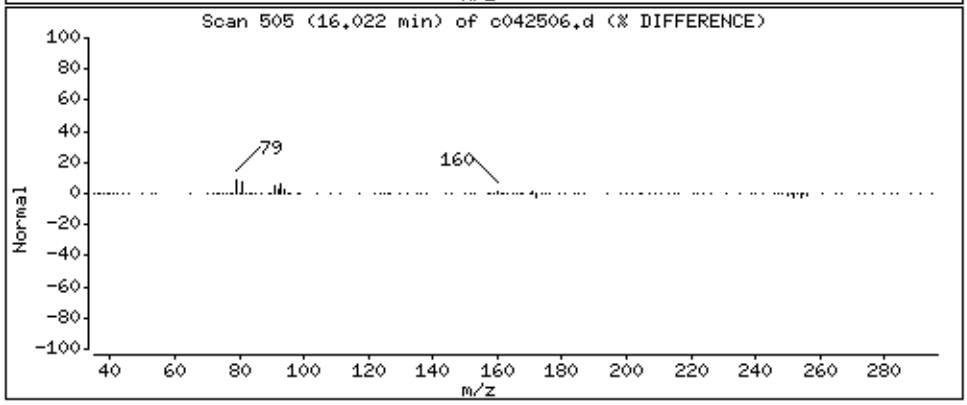












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

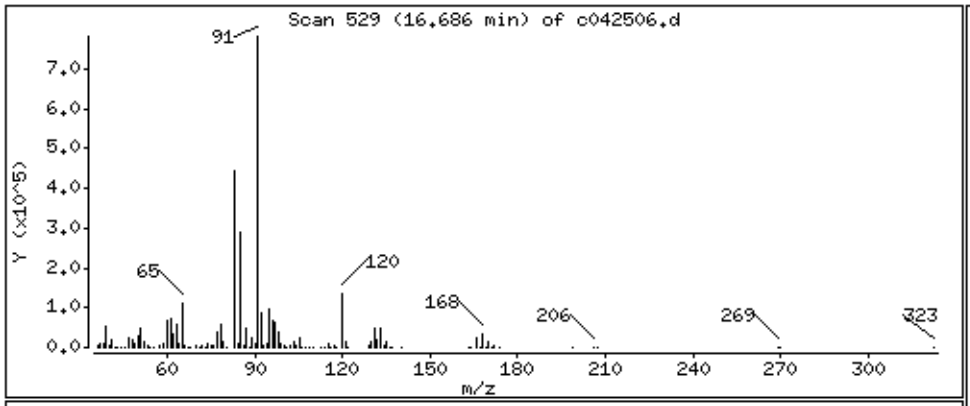
Operator: JP

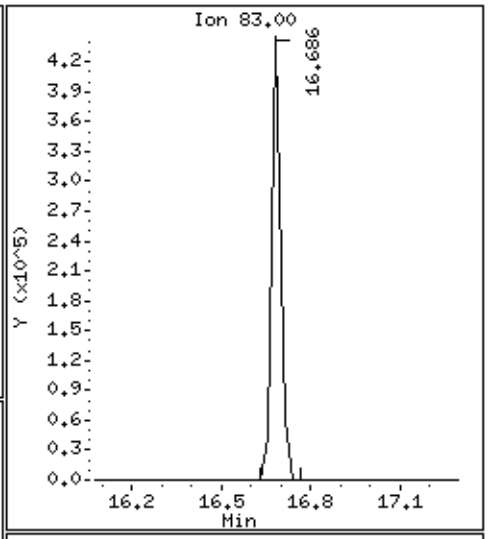
Column phase: RTx-624

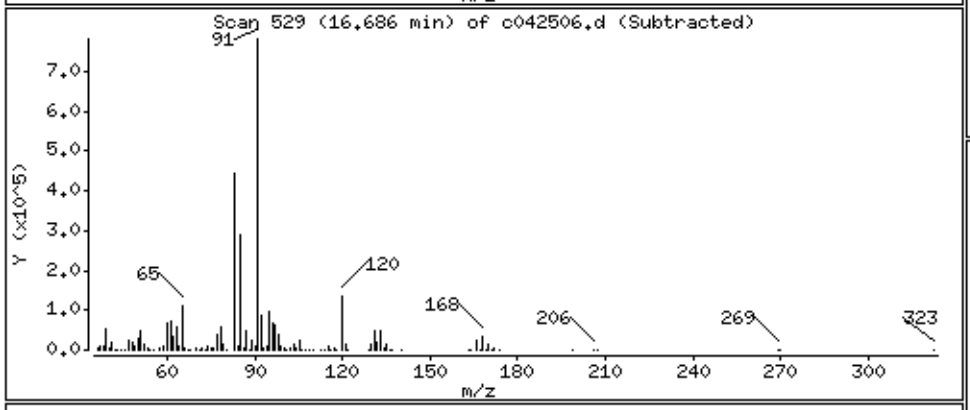
Column diameter: 0.53

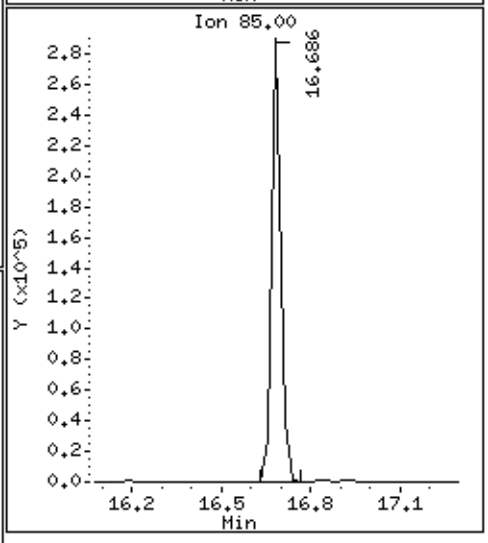
141 1,1,2,2-Tetrachloroethane

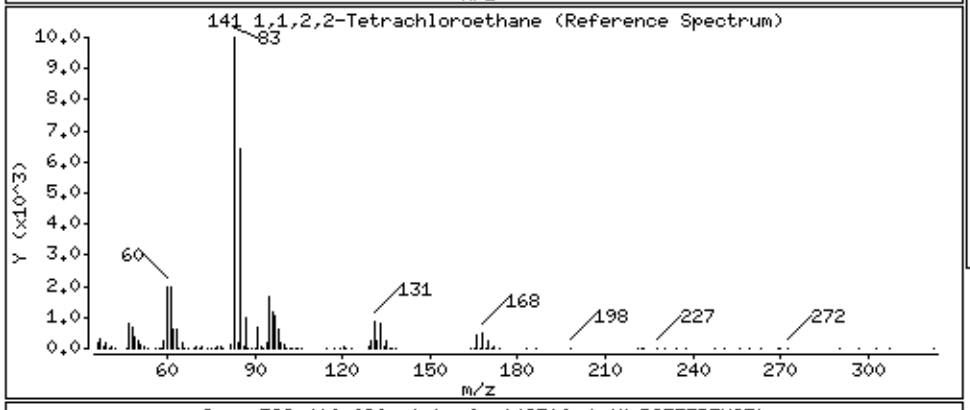
Concentration: 183.50 PPBV

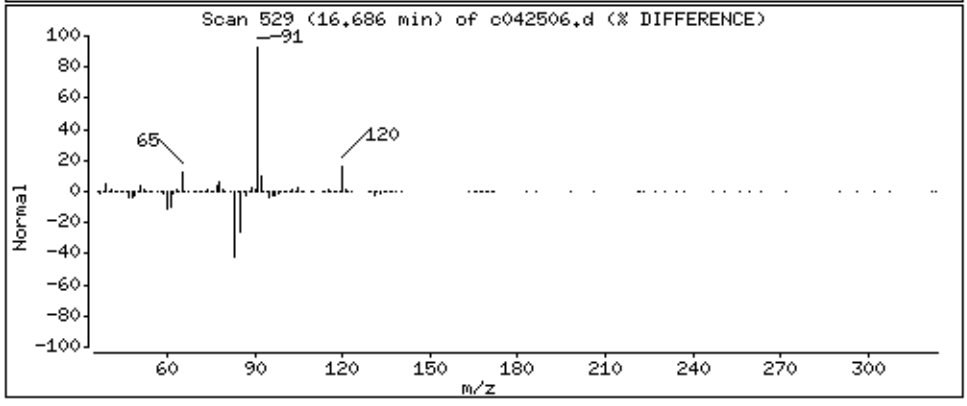












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

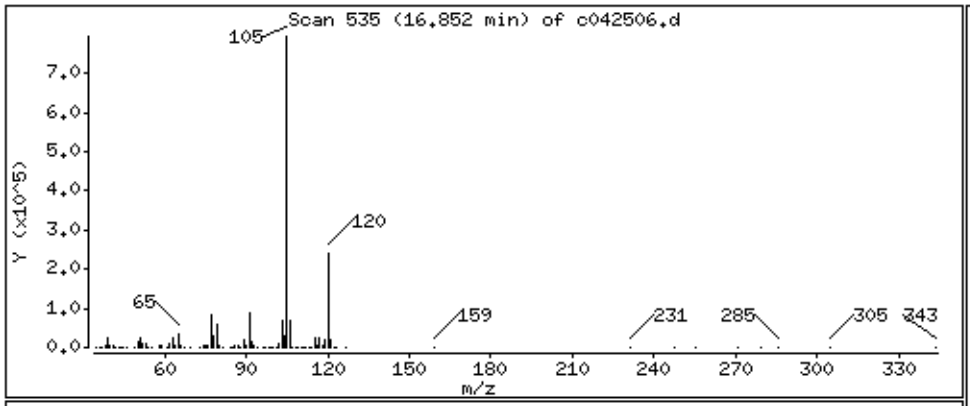
Operator: JP

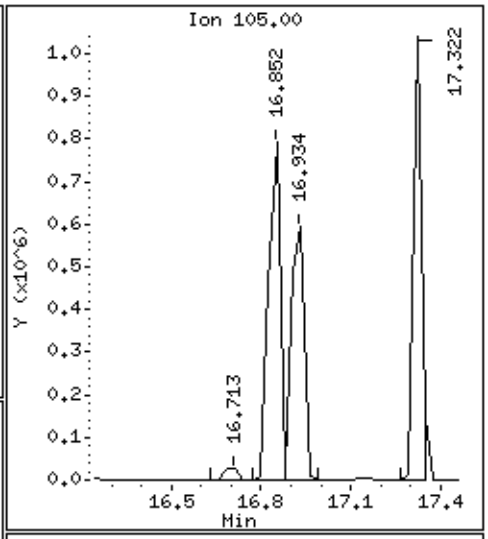
Column phase: RTx-624

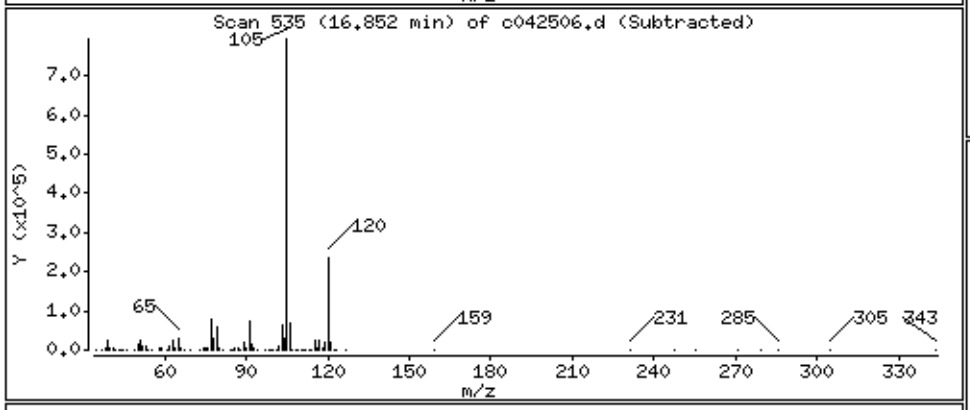
Column diameter: 0.53

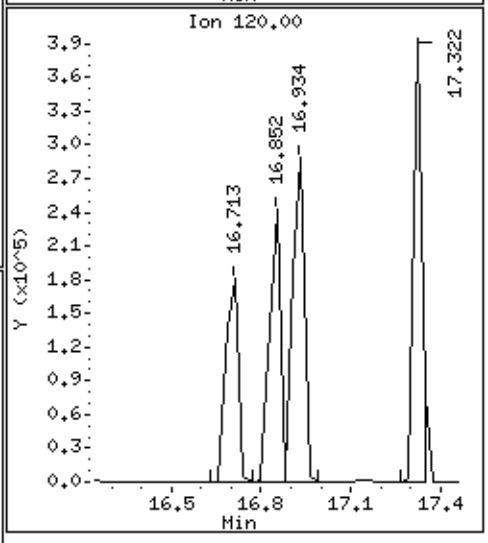
144 4-Ethyltoluene

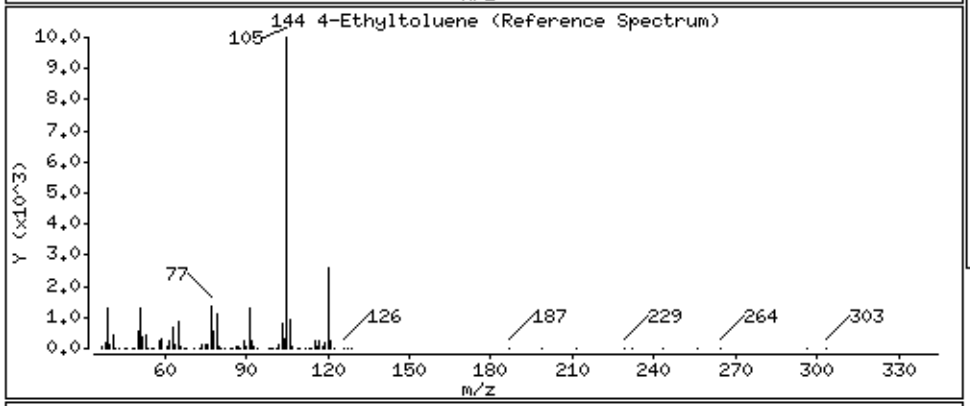
Concentration: 194.26 PPBV

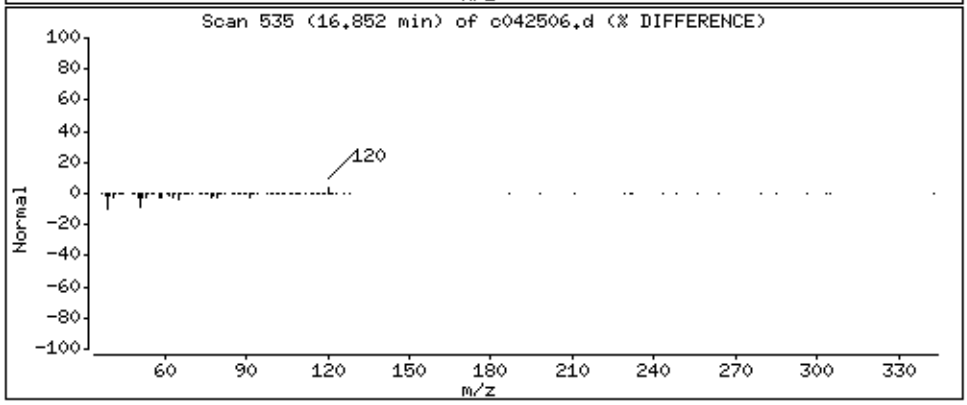












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

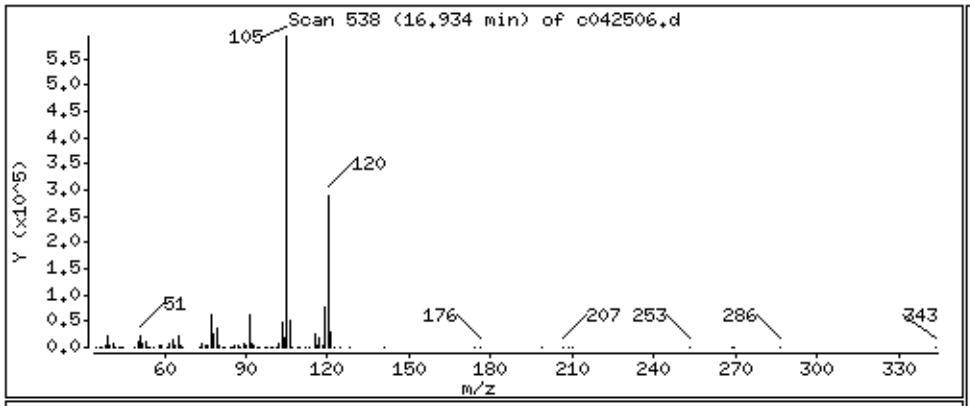
Operator: JP

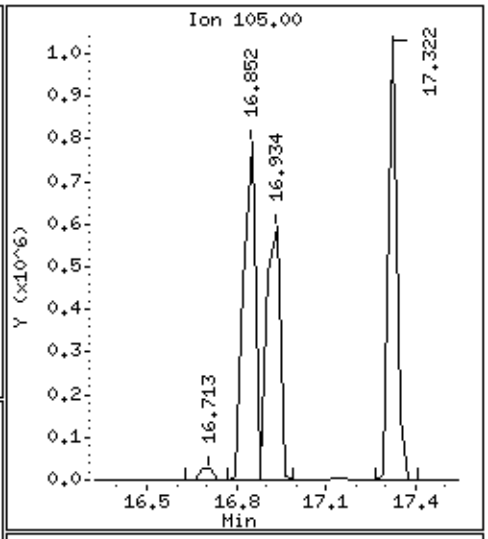
Column phase: RTx-624

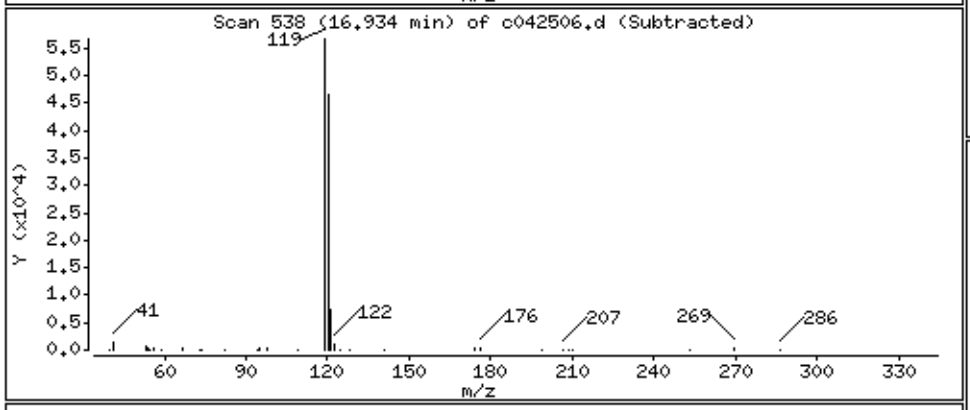
Column diameter: 0.53

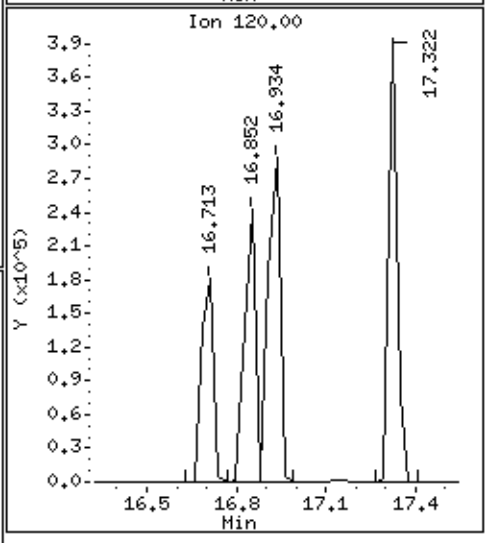
147 1,3,5-Trimethylbenzene

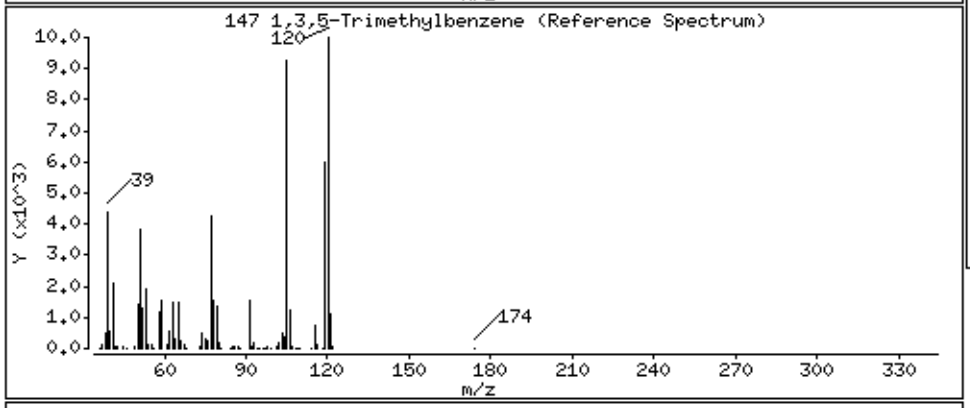
Concentration: 187.06 PPBV

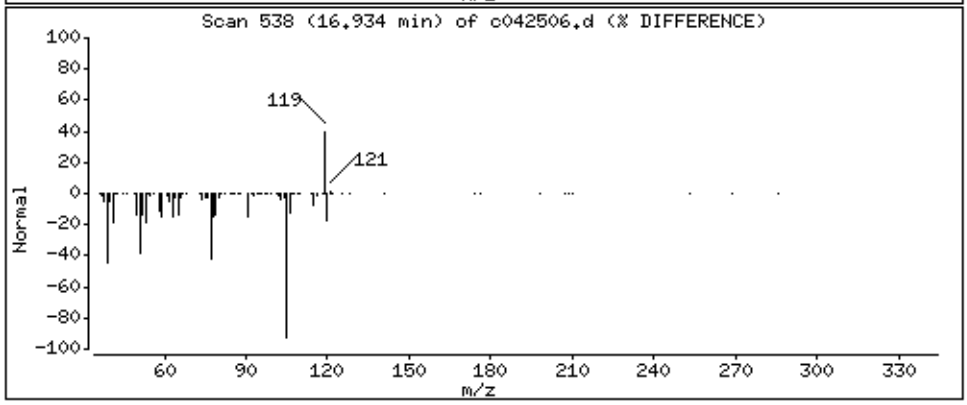












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

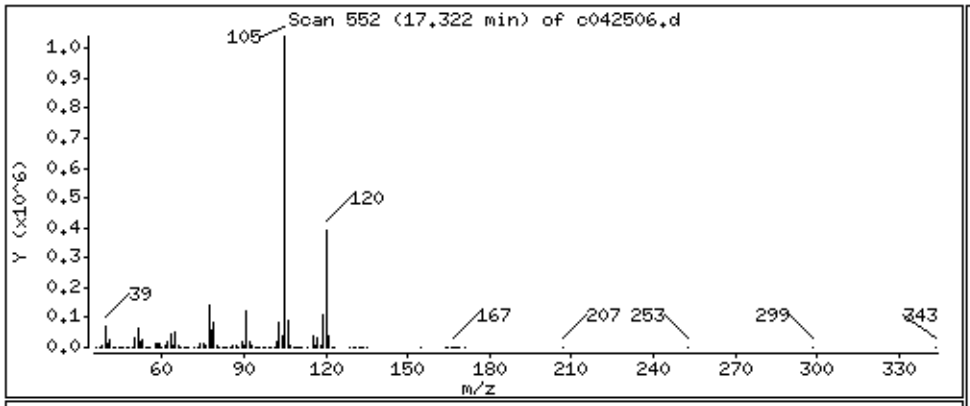
Operator: JP

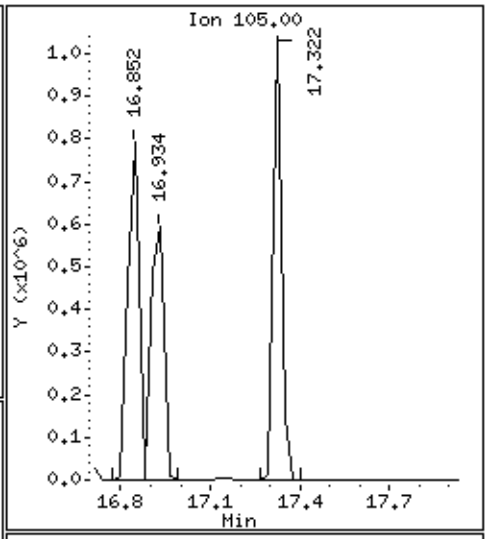
Column phase: RTx-624

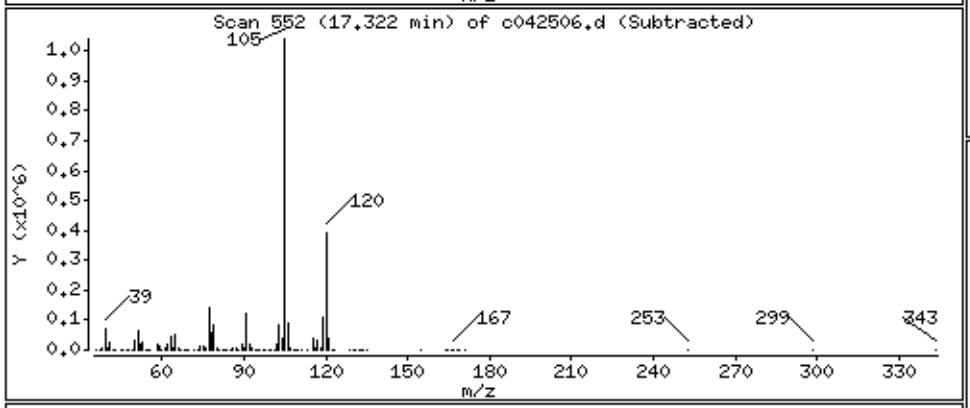
Column diameter: 0.53

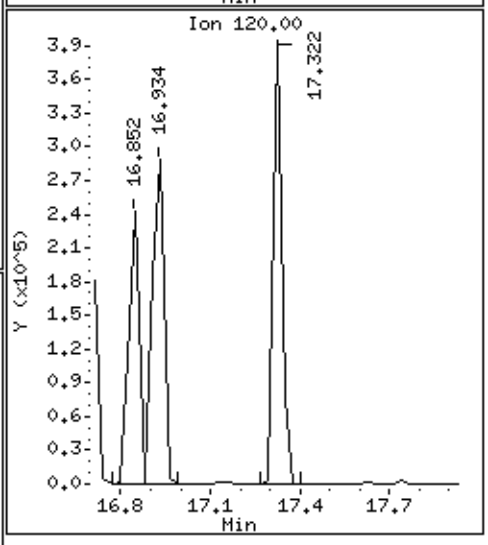
152 1,2,4-Trimethylbenzene

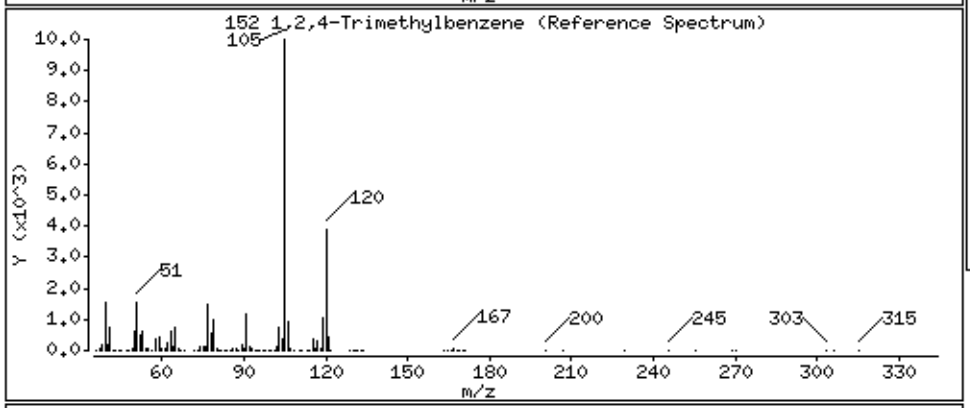
Concentration: 187.67 PPBV

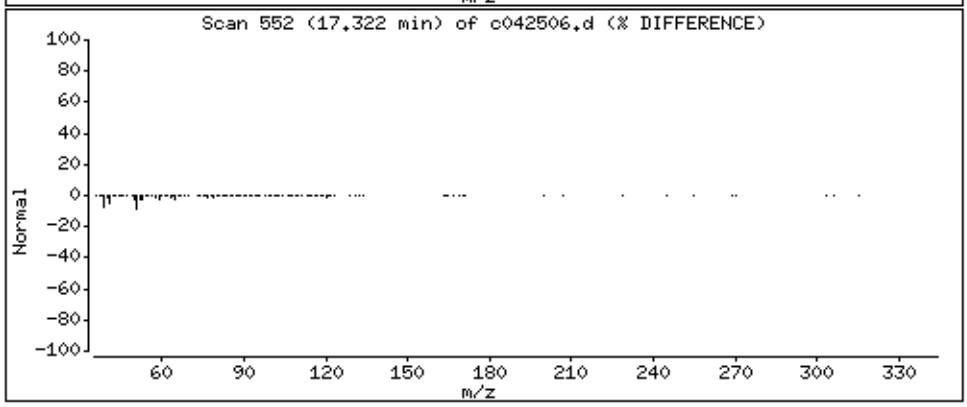












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

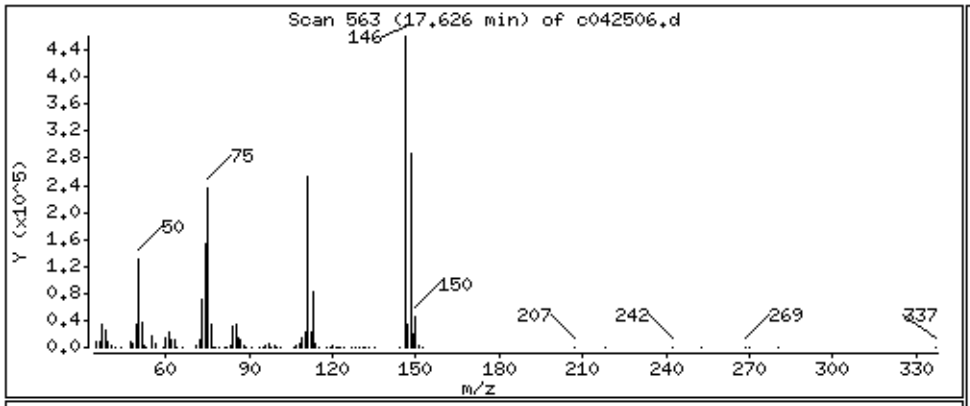
Operator: JP

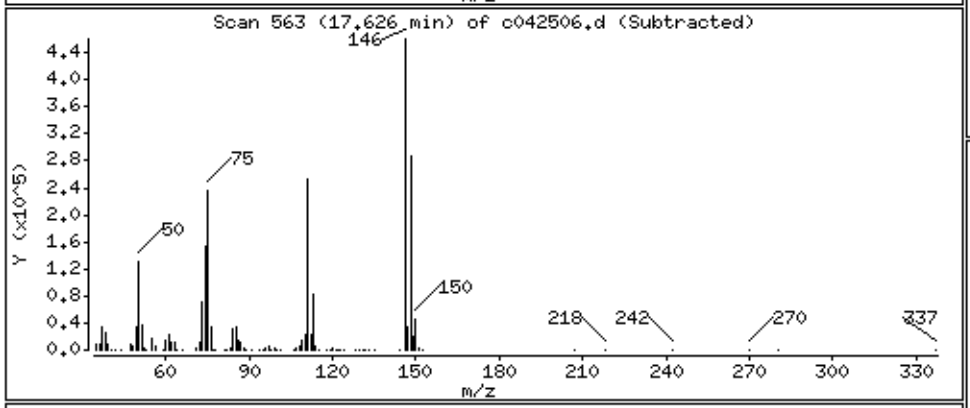
Column phase: RTx-624

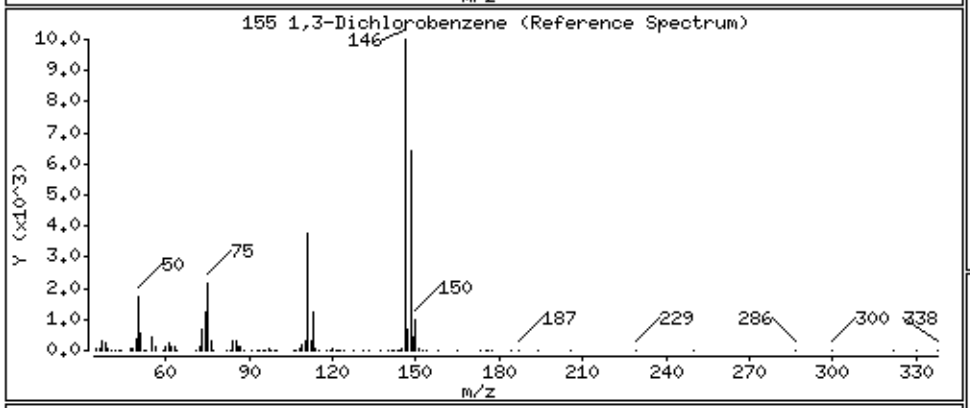
Column diameter: 0.53

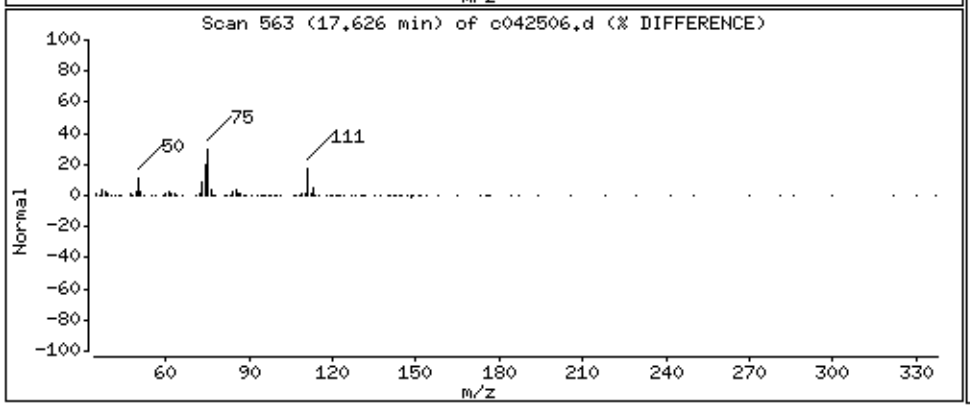
155 1,3-Dichlorobenzene

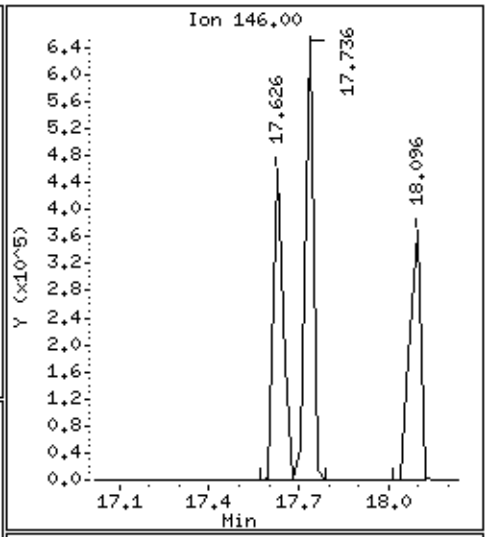
Concentration: 172.81 PPBV

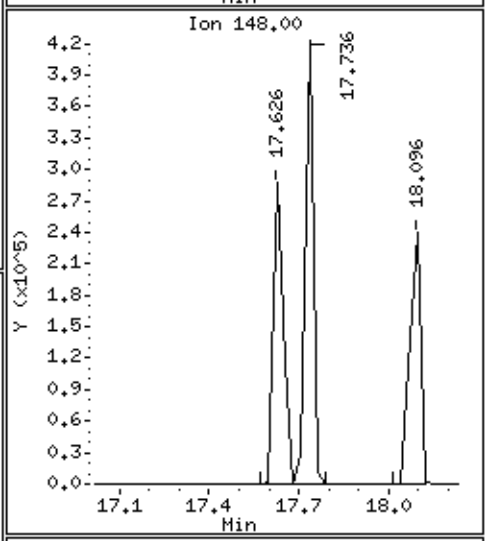


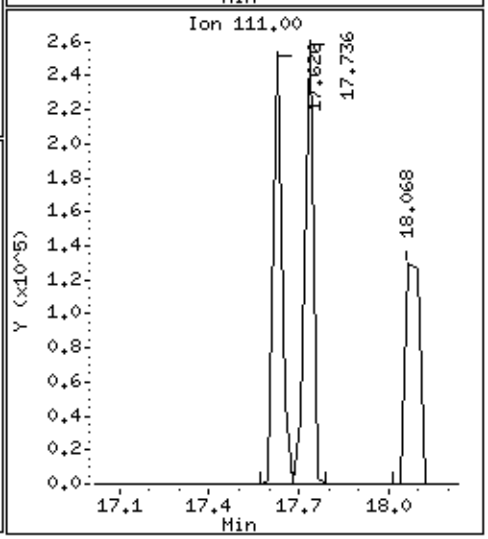












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

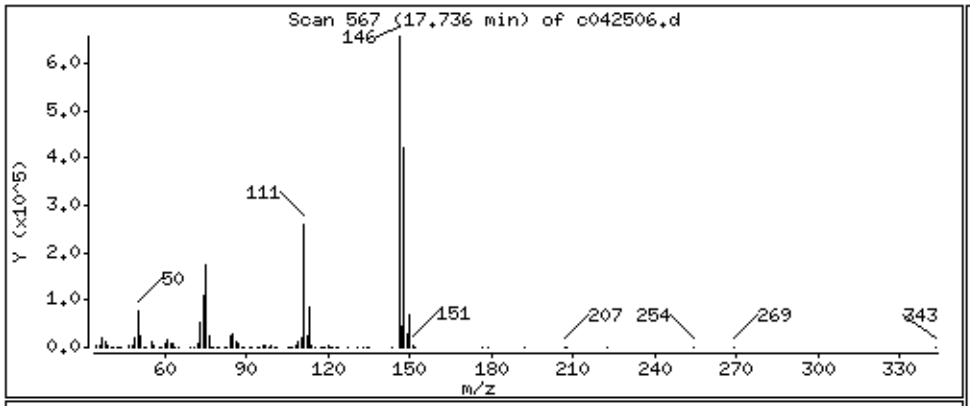
Operator: JP

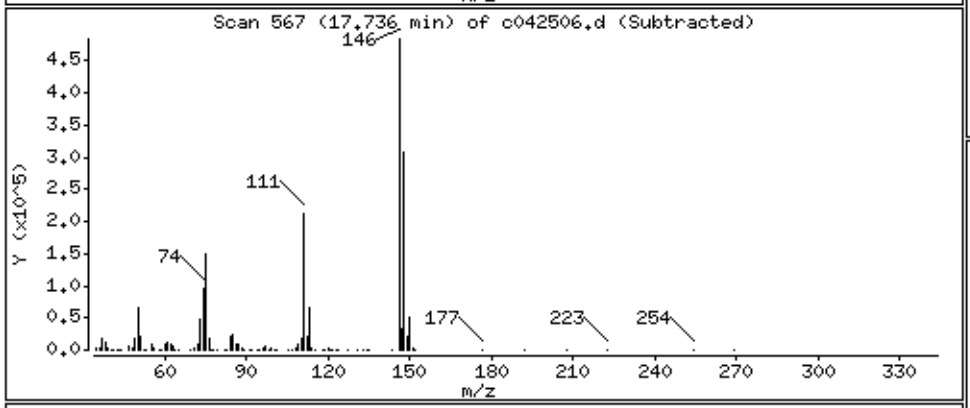
Column phase: RTx-624

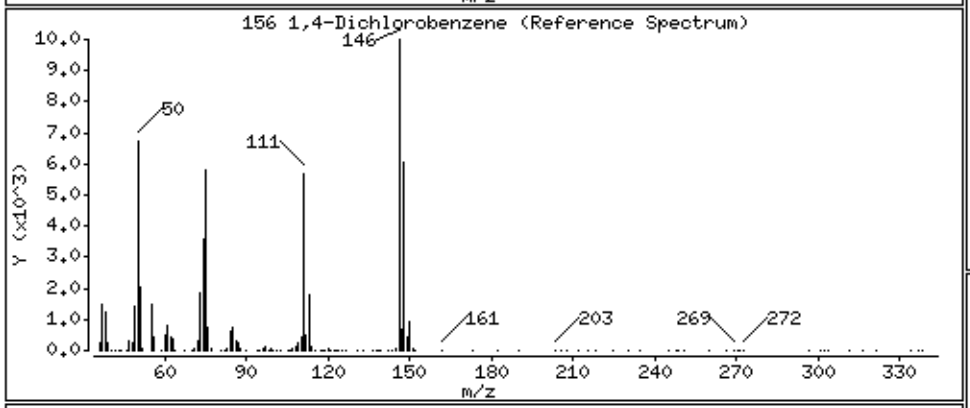
Column diameter: 0.53

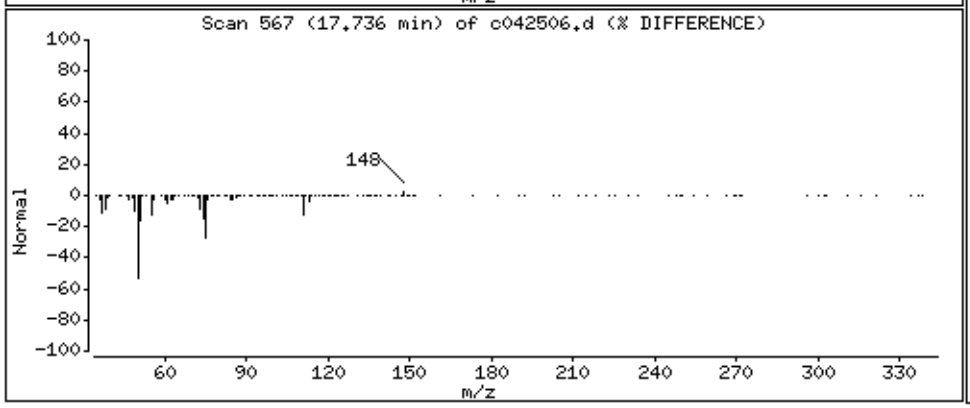
156 1,4-Dichlorobenzene

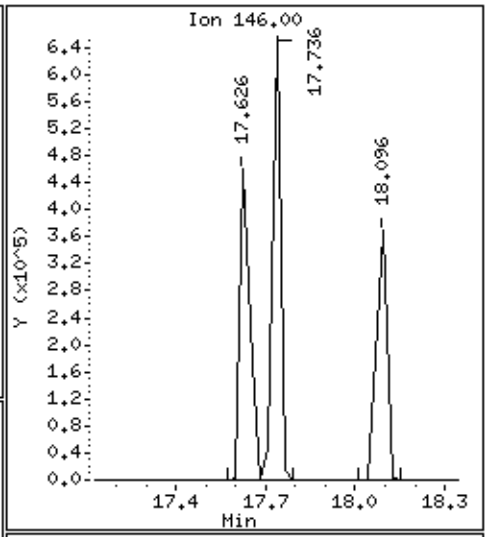
Concentration: 182.48 PPBV

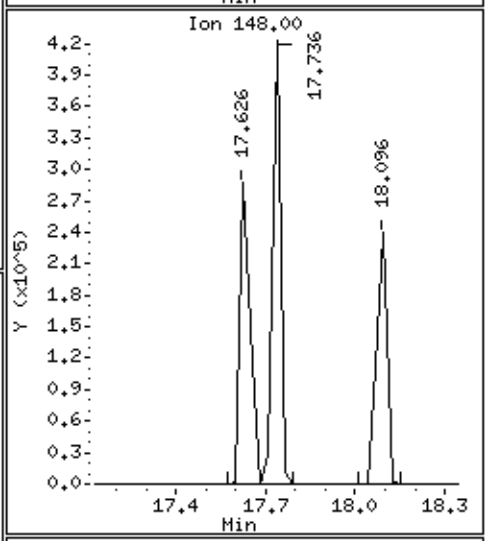


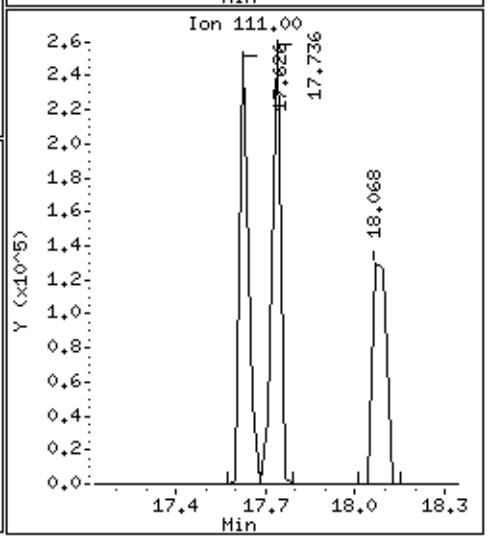












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

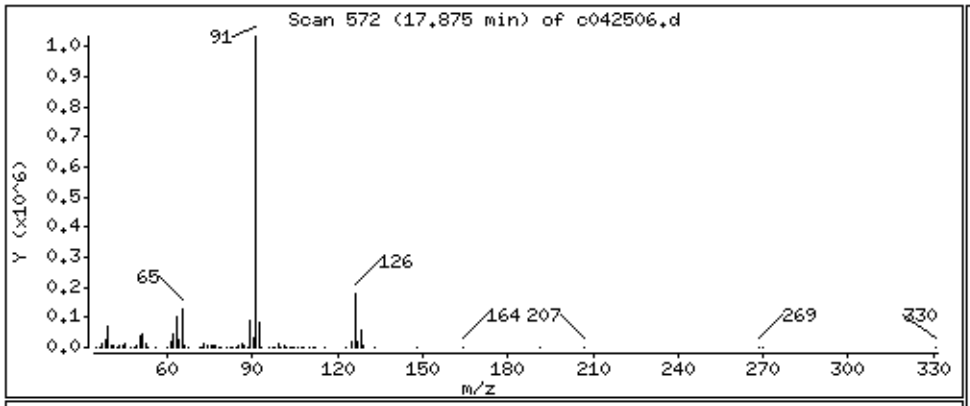
Operator: JP

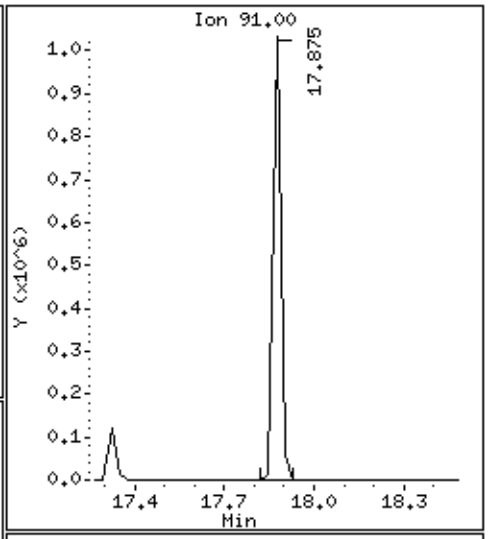
Column phase: RTx-624

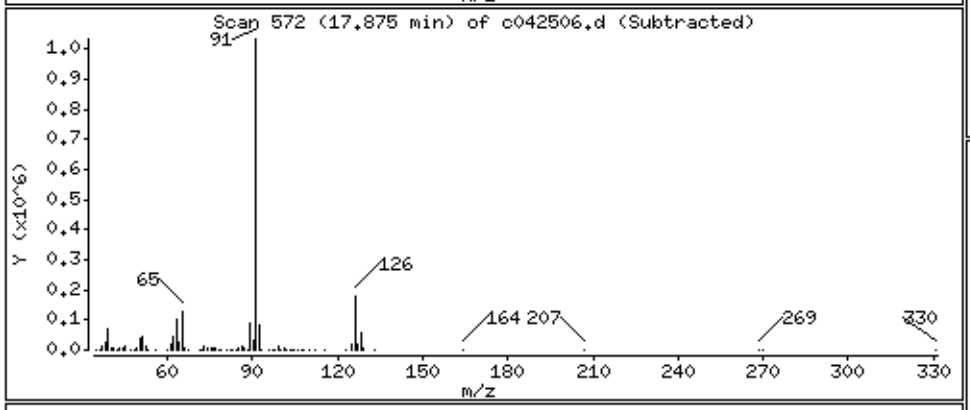
Column diameter: 0.53

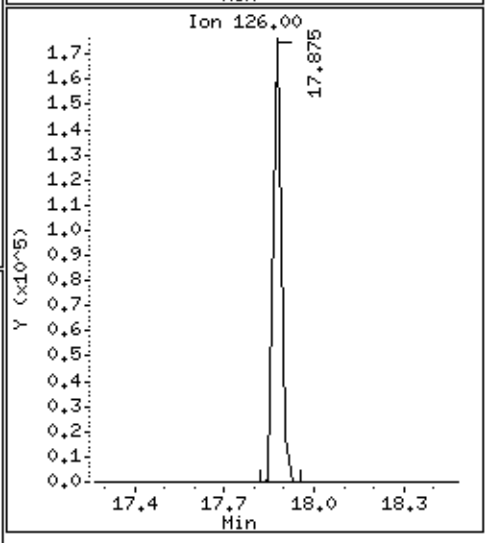
157 alpha-Chlorotoluene

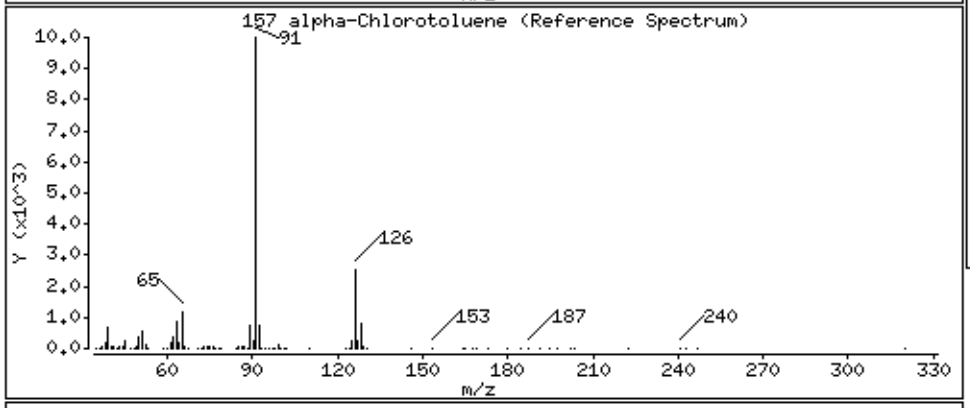
Concentration: 198.25 PPBV

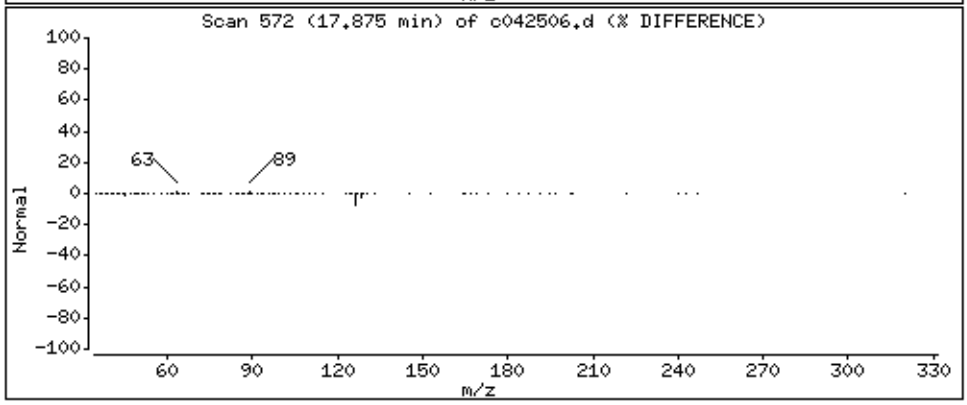












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

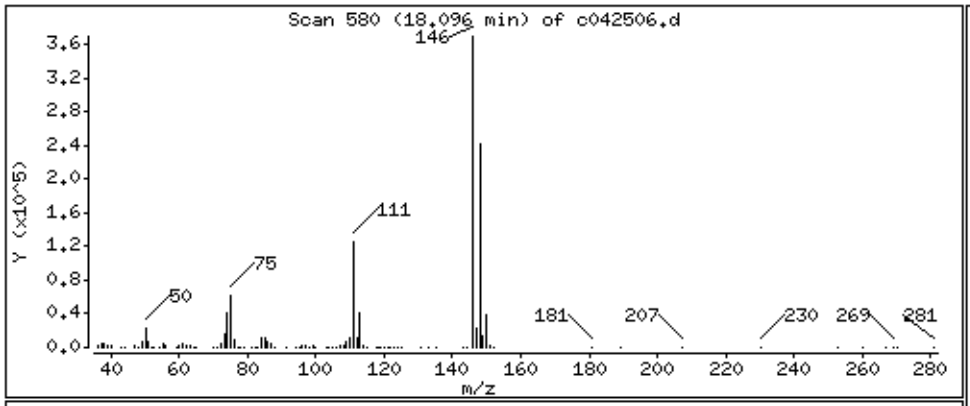
Operator: JP

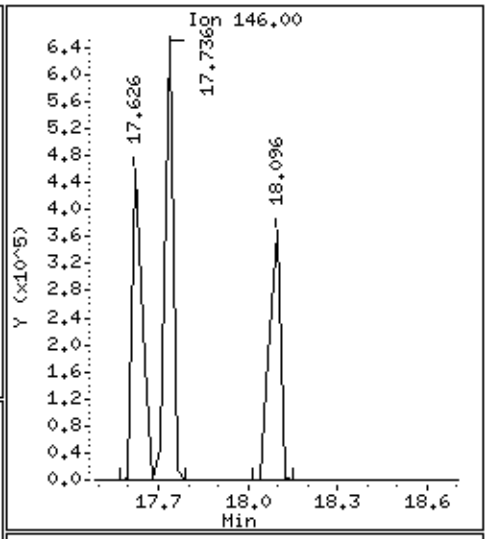
Column phase: RTx-624

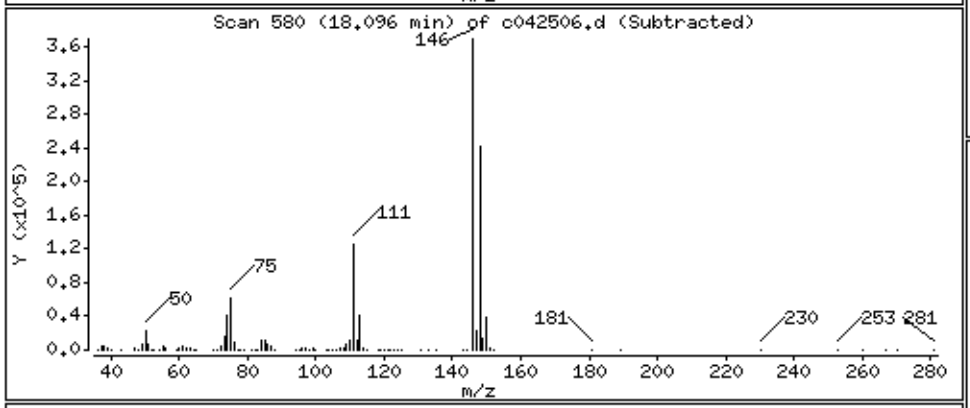
Column diameter: 0.53

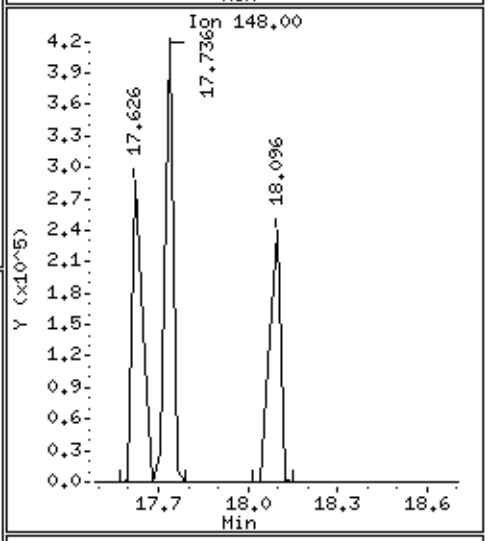
159 1,2-Dichlorobenzene

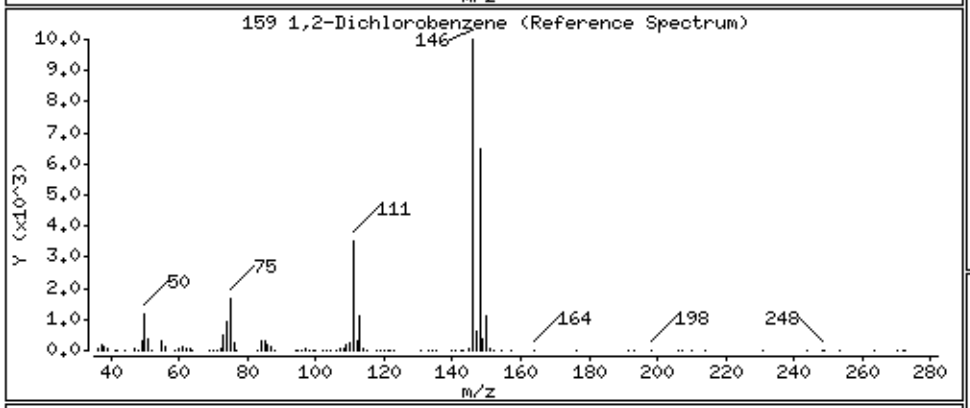
Concentration: 169.89 PPBV

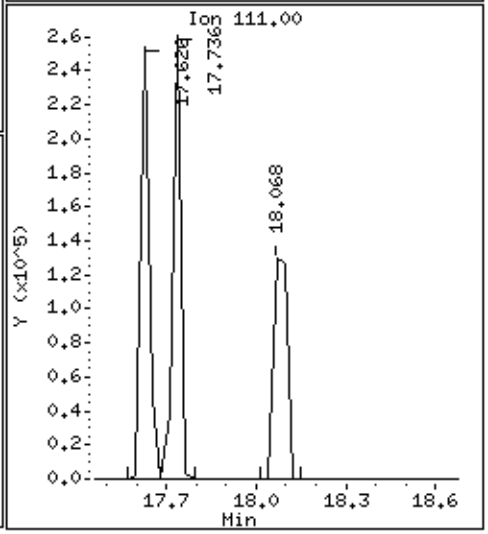


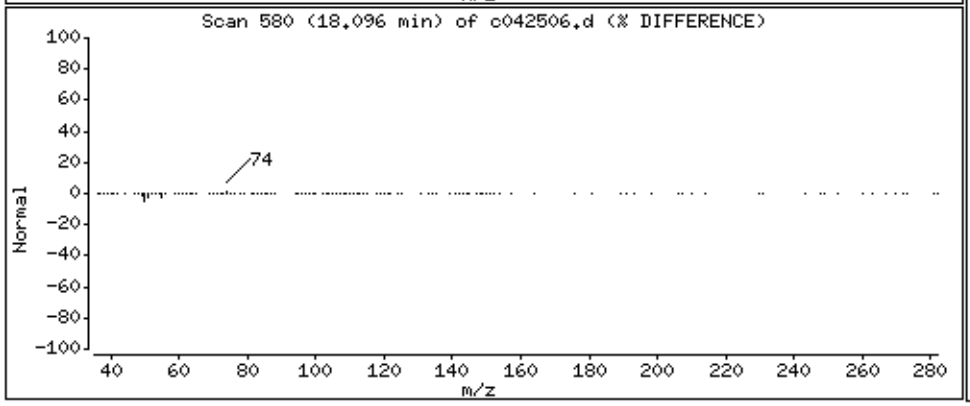












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

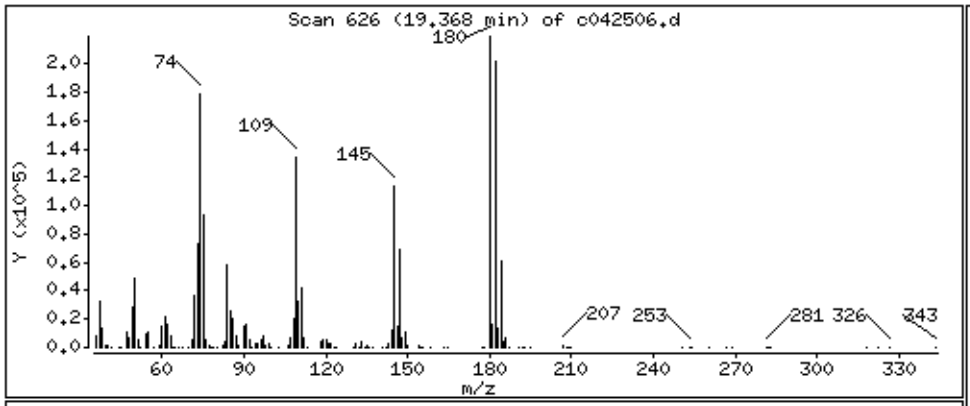
Operator: JP

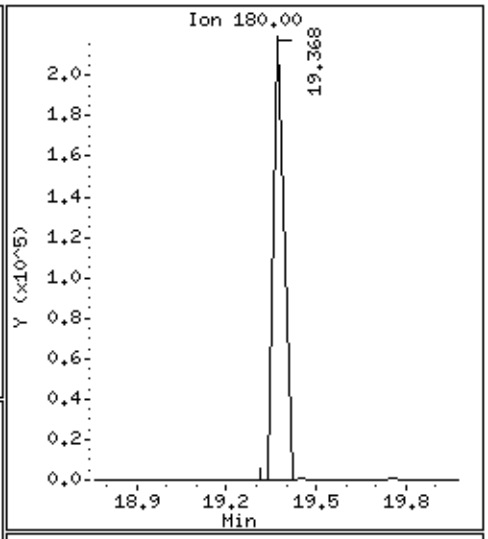
Column phase: RTx-624

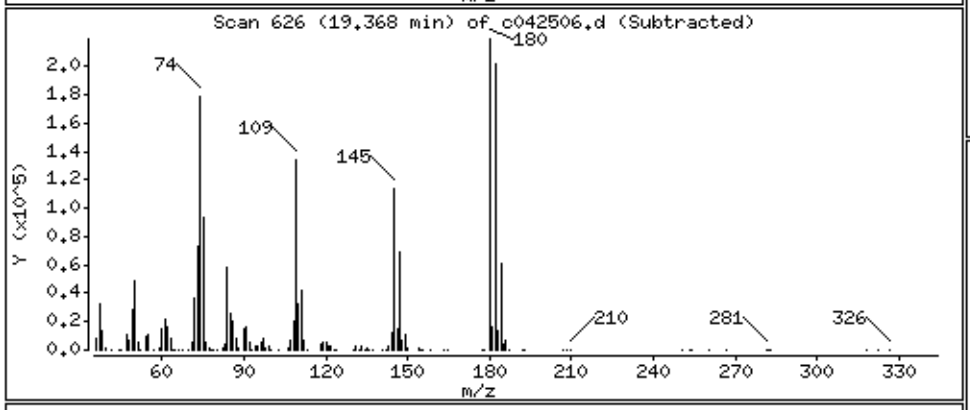
Column diameter: 0.53

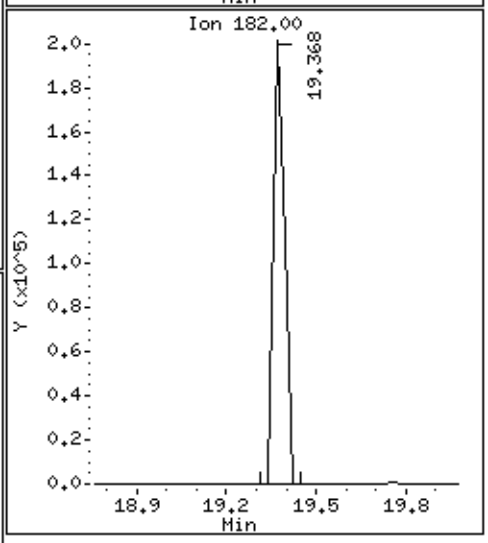
163 1,2,4-Trichlorobenzene

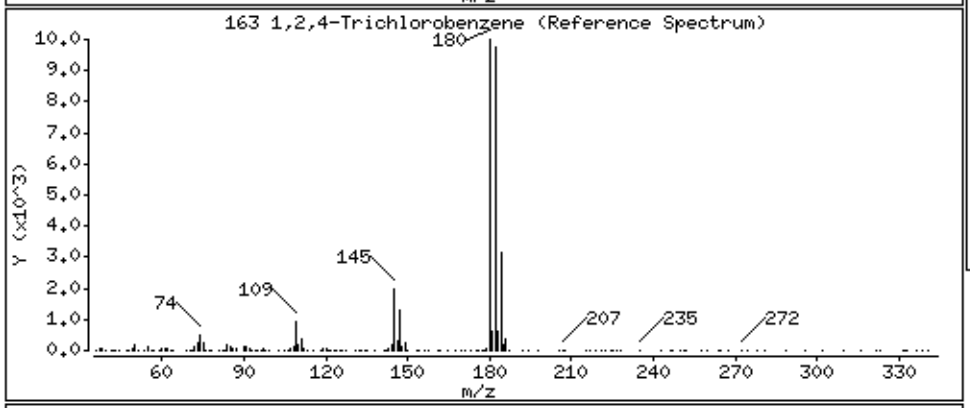
Concentration: 162.18 PPBV

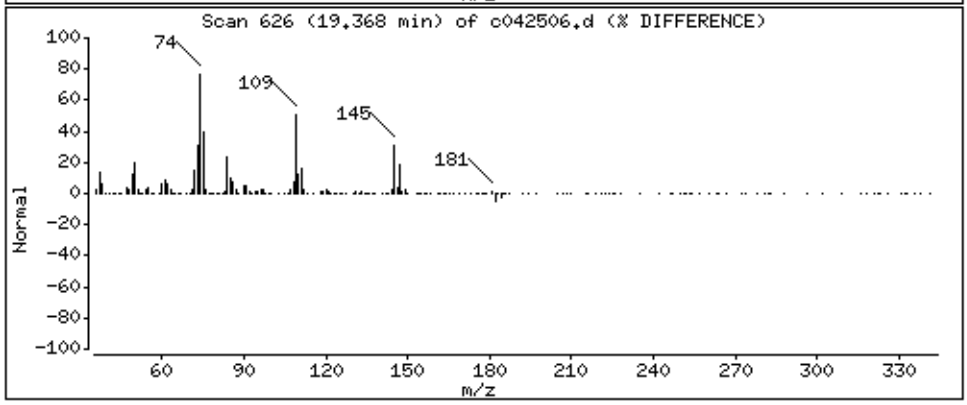












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

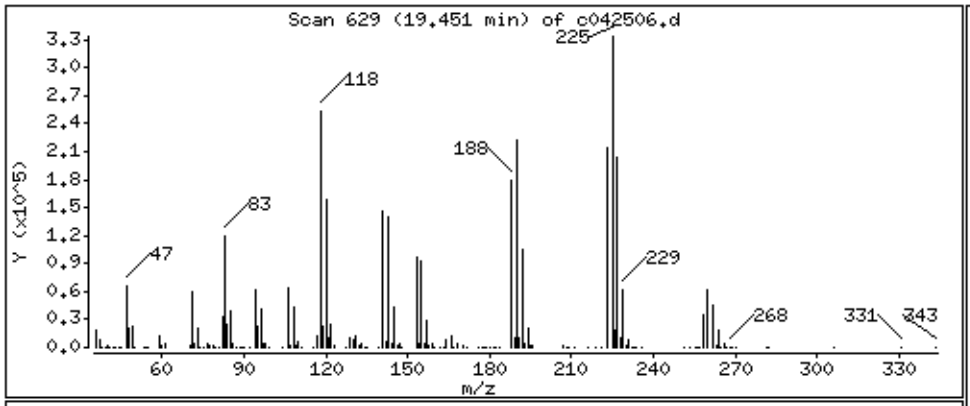
Operator: JP

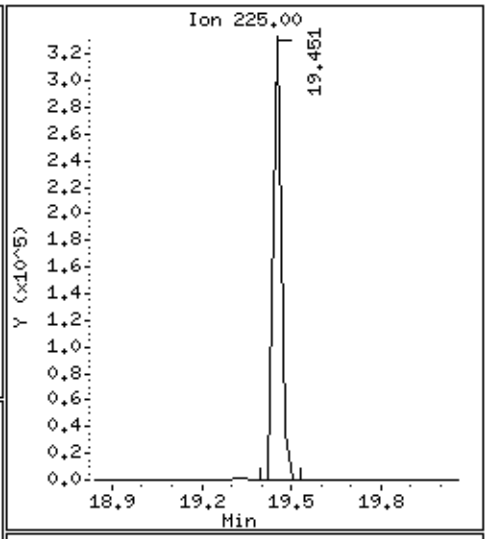
Column phase: RTx-624

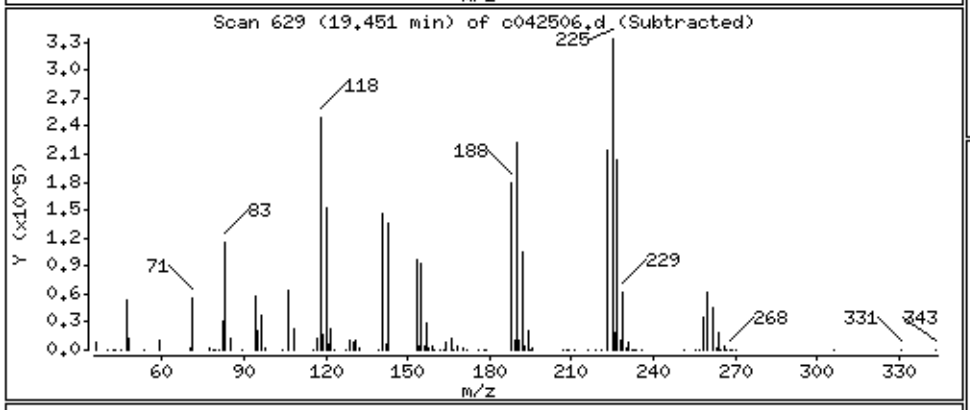
Column diameter: 0.53

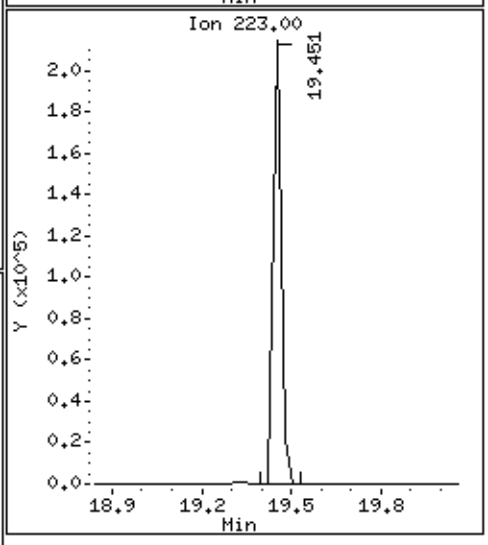
164 Hexachlorobutadiene

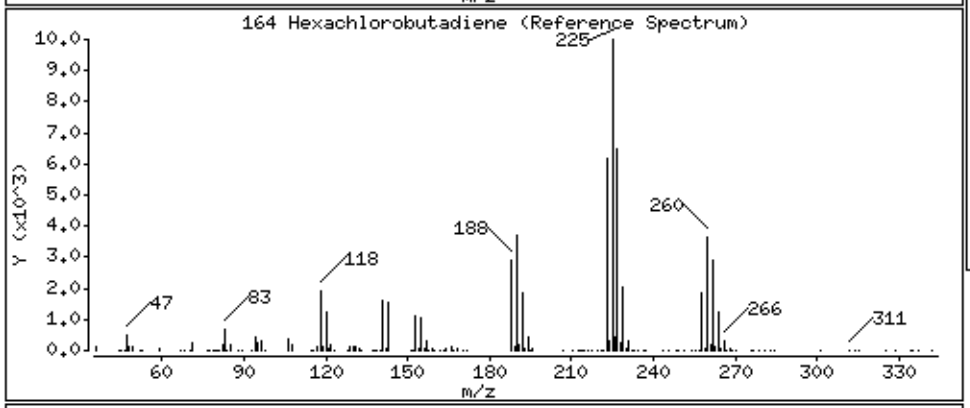
Concentration: 174.44 PPBV

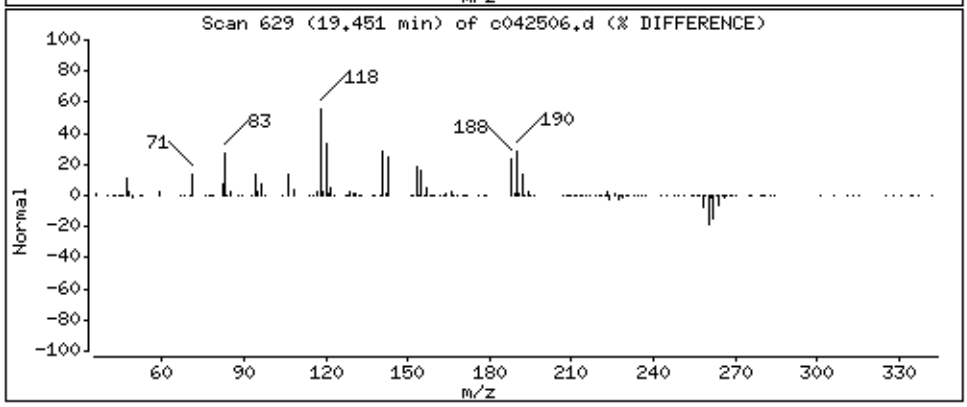












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

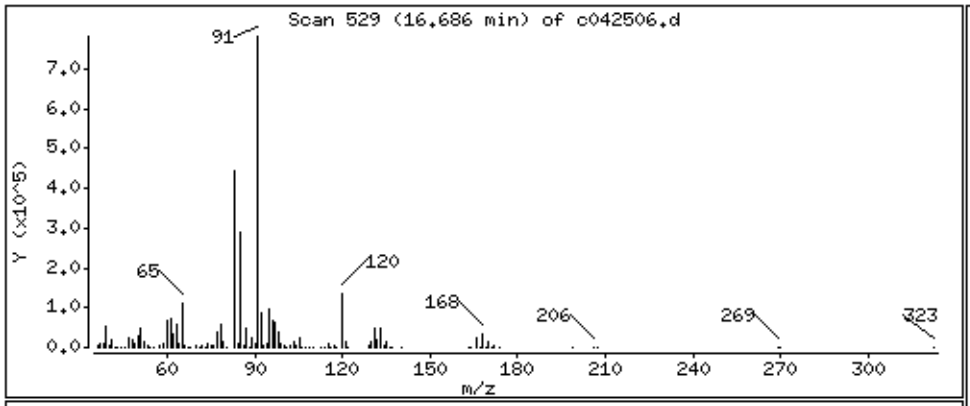
Operator: JP

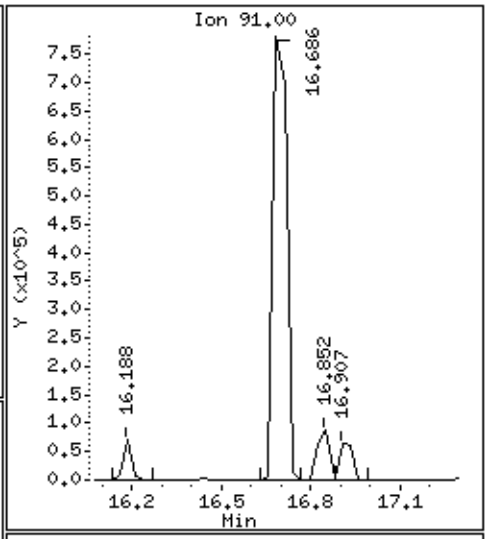
Column phase: RTx-624

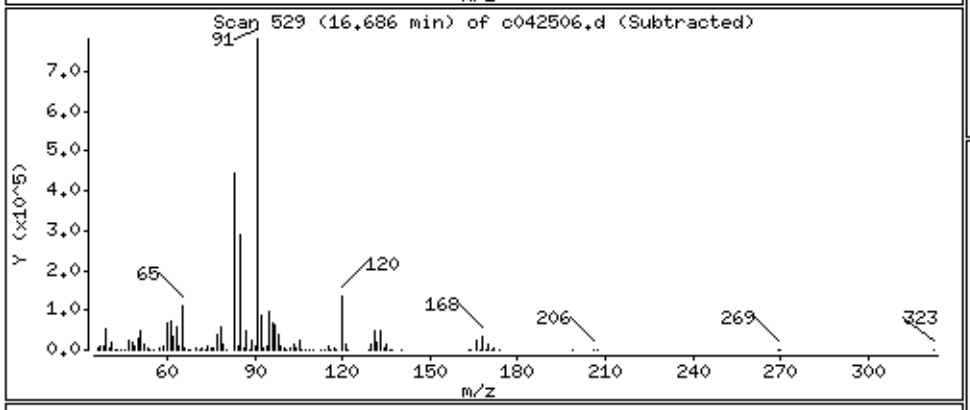
Column diameter: 0.53

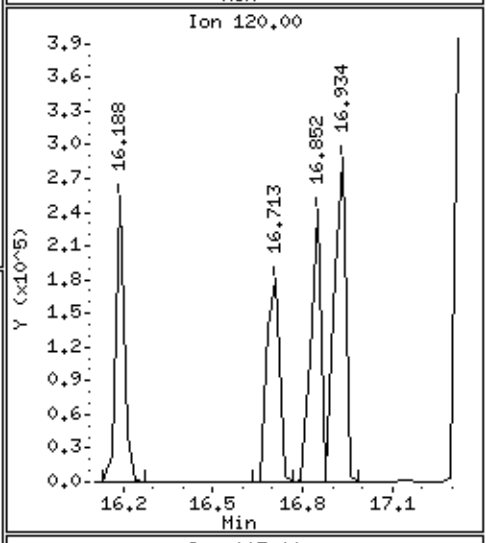
142 Propylbenzene

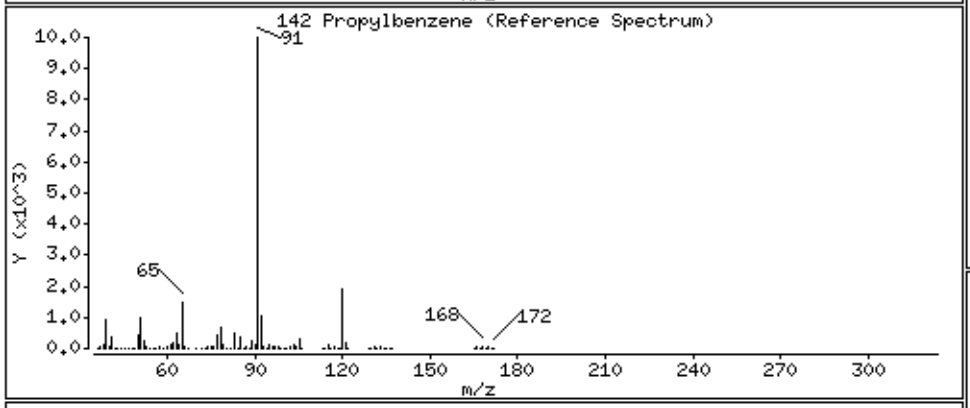
Concentration: 180.87 PPBV

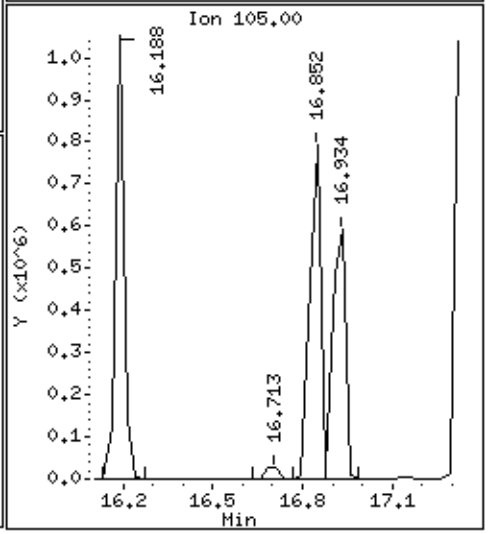


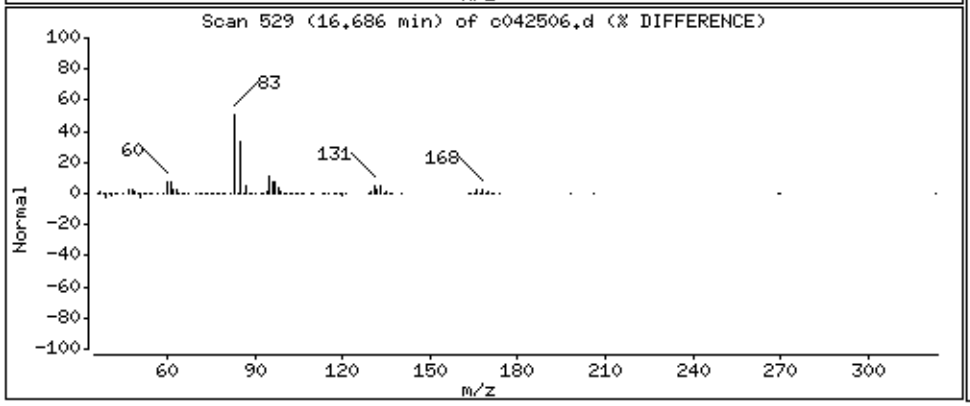












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

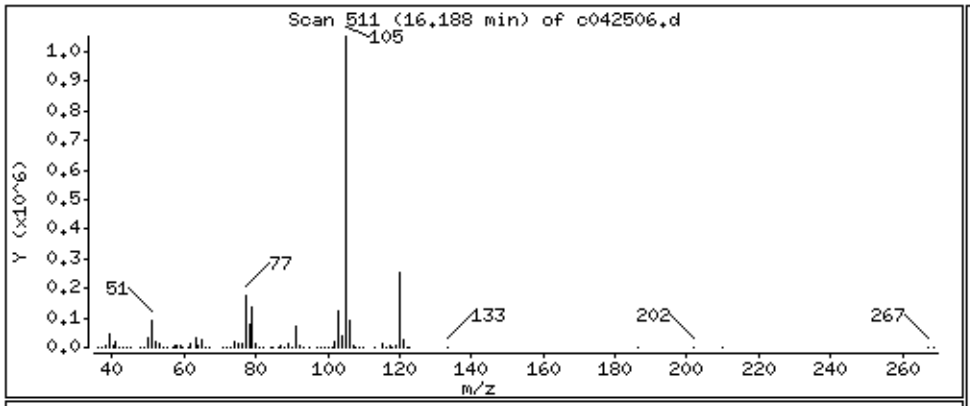
Operator: JP

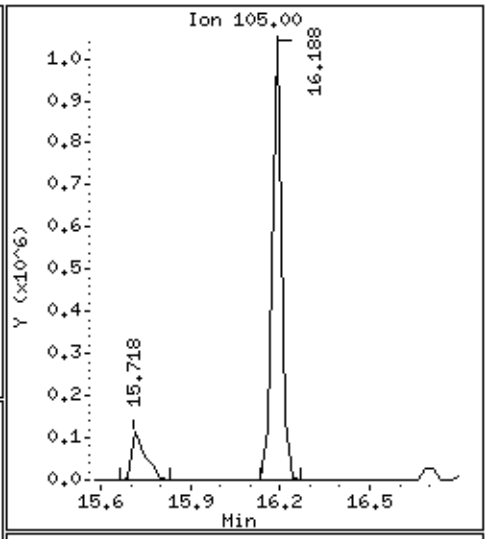
Column phase: RTx-624

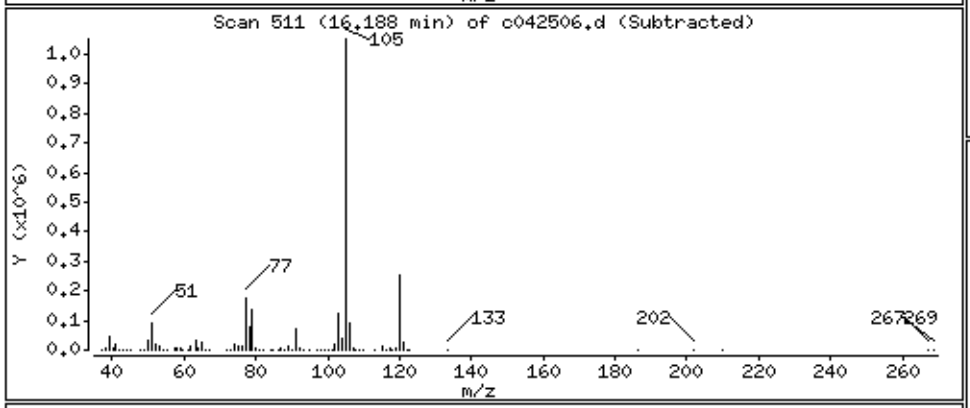
Column diameter: 0.53

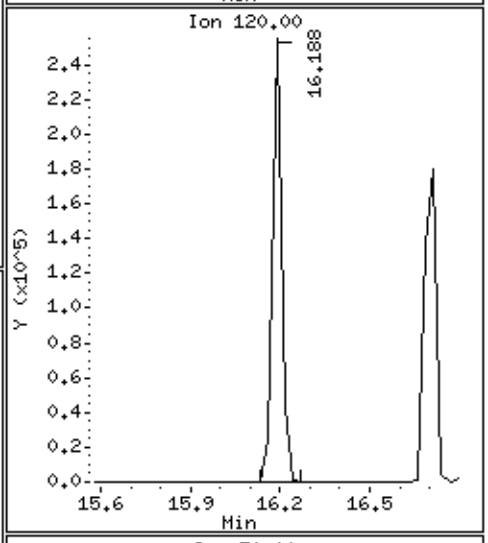
136 Cumene

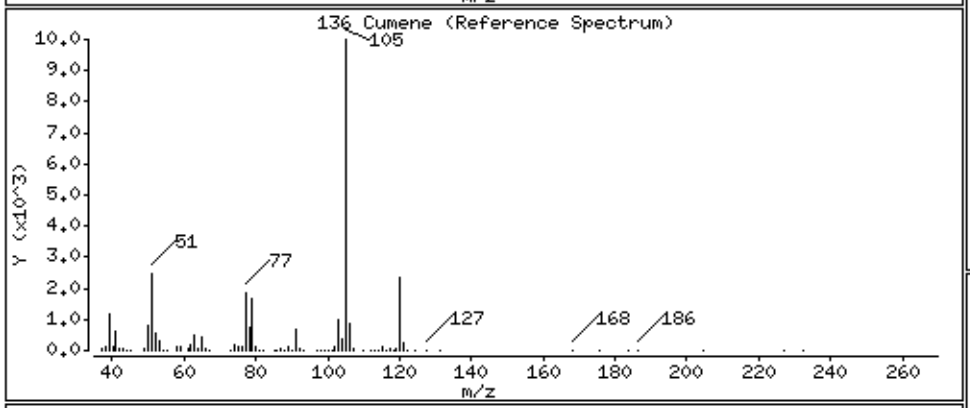
Concentration: 187.33 PPBV

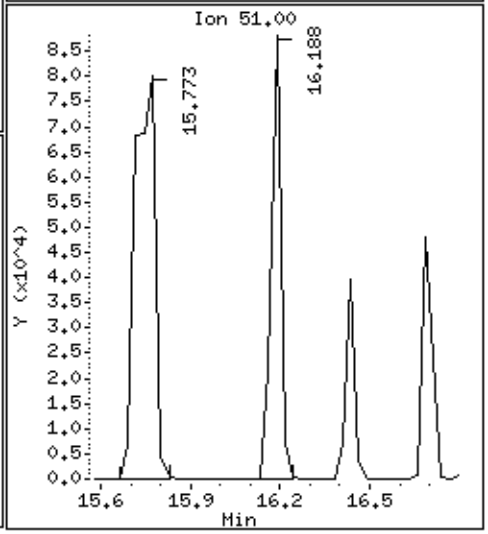


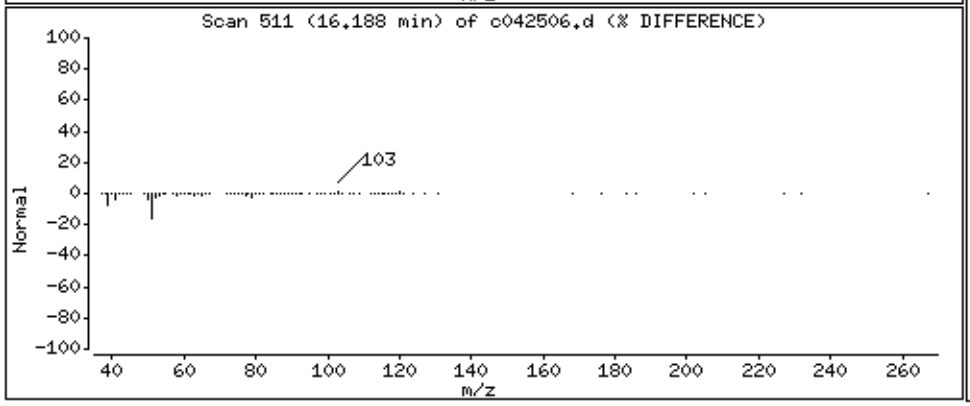












Data File: /chem/msdc.i/25Apr2008.b/c042506.d

Date : 25-APR-2008 02:58

Client ID: LCS

Instrument: msdc.i

Sample Info: 50mL,22506

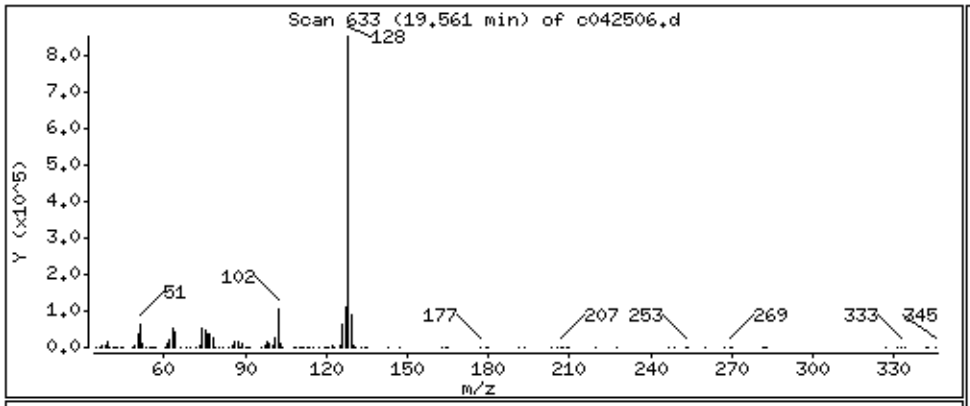
Operator: JP

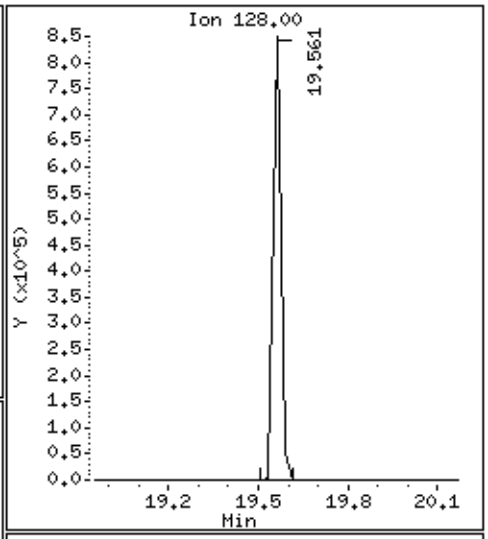
Column phase: RTx-624

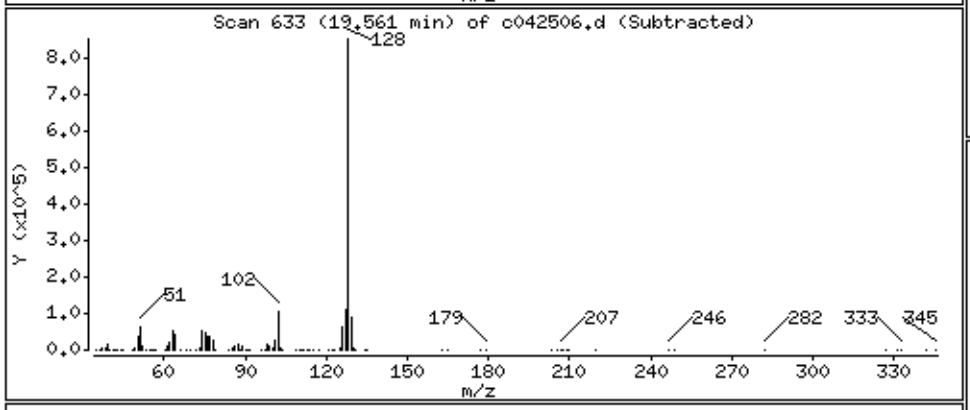
Column diameter: 0.53

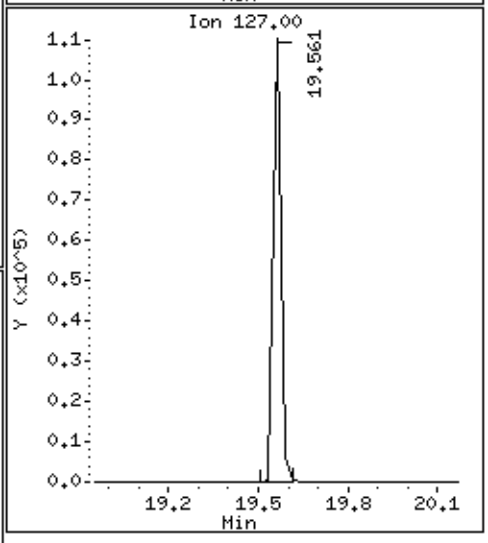
165 Naphthalene

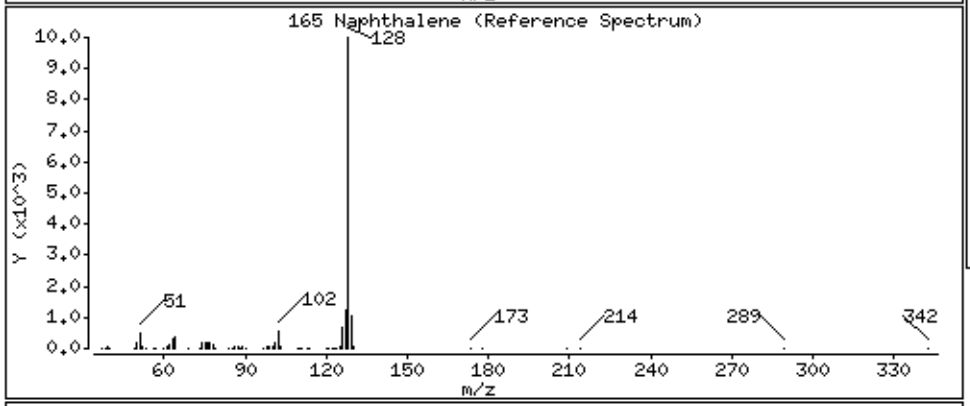
Concentration: 194.55 PPBV

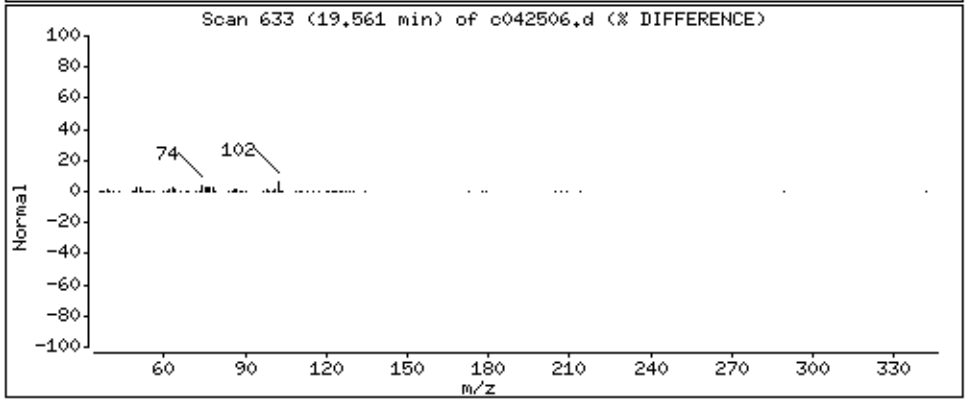












@ Air Toxics Ltd.

MSD-C

Logbook #: 1657

0463

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	17.02
75	30.0 – 60.0% of mass 95	51.71
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.47
173	Less than 2.0% of mass 174	(0.00)[1]
174	50.0 – 100% of mass 95	66.71
175	5.0 – 9.0% of mass 174	(7.34)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.68)[1]
177	5.0 – 9.0% of mass 176	(6.43)[2]

[1] - value in parenthesis is % mass 174 [2] - value in parenthesis is % mass 176

BFB Injection Date: 4/25/08
BFB Injection Time: 0045
BFB File ID: C042501
Tekmar Purge Flow: N/A
Vacuum: N/A

IS/S Std.#: 1544-78	Exp. Date: 7/24/08
BCM	426794
1,4-DFB	1936987
CB-d5	1655878

Verified CCV IS vs ICAL mid-point (- 40%D) ____ *initials*

Verify 176/174 m/z Ratio: $\frac{137984_{\times 100\%} = 97.69\%}{141248}$

NOAH Cart #: N/A **File #:** N/A

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(538394)}{(426794)} \times \frac{(400)}{(202567)} = 192.18$ ppbv

File ID: C042503
Compound: MTBE
Initials: [illegible]

Reported Result 192.18 ppbv

Method: TO15424

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	C042501	1476-224 BFB	N/A	50 psig	2.0mL	1.00	[illegible]	4/25/08	0045	[illegible]	BFB
2	✓	02	Lab Blank	4074	N/A	50mL	1.00	[illegible]		0057	[illegible]	
3	✓	03	1544-81C ccv	31443	N/A	50mL	1.00	[illegible]		0124	[illegible]	ccv exp 7/24/08
4	✓	04	1576-342 SW ccv	3761	N/A	50mL	1.00	[illegible]		0152	[illegible]	ccv exp 7/24/08
5	X	05	1544-82A lcs	22506	N/A	50mL	1.00	[illegible]		0221	[illegible]	lcs exp 7/24/08
6	✓	06	1	1	1	1	1	[illegible]		0258	[illegible]	lcs exp 7/24/08
7	✓	07	Lab Blank	4074	N/A	50mL	1.00	[illegible]		0331	[illegible]	

[illegible]
Signature

4/25/08
Date

@ Air Toxics Ltd.

MSD-C

Logbook #: 1657

0464

8	✓	C042508	080 4477-01A	2866	3.1"Hg→15.0psi	50mL	2.25	↓	4/25/08	0406	↓	
9	✓	09	02A	2899	2.7"Hg→15.0psi	50mL	2.22	↓		0440	↓	
10	✓	10	06A	2969	0.5"Hg→15.0psi	50mL	2.05	↓		0522	↓	
11	✓	11	07A	2922	5.0"Hg→15.0psi	50mL	2.42	↓		0555	↓	
12	✓	12	08A	5359	4.0"Hg→15.0psi	50mL	2.33	↓		0628	new	
13	✓	13	-03A	~~2874~~	2.7"Hg→15psi	50mL	2.22	new		0708	new	
14	✓	14	-03A	↓	↓	↓	↓	new		0739	new	
15	✓	15	-04A	2957	2.7"Hg→15psi	50mL	2.22	new		0811	new	
16	✓	16	-05A	5444	0.0"Hg→15psi	25mL	4.04	new		0850	new	
17	✓	17	-09A	2880	3.9"Hg→15psi	50mL	2.32	new		0926	new	
18	✓	18	-10A	3319	3.0"Hg→15psi	↓	2.24	↓		1009	new	
19	✓	19	-11A	2998	0.7"Hg→14.5psi		2.043			1040	new	
20	✓ 4/25/08	20	-12A	2838	0.0"Hg→15psi		2.02			1113	new	
21	~~X~~ C	21	-13A	2897	28.6"Hg→15psi		1.00			1200	new	IS↓ Fr152↑
22	✓	22	-13A	↓	↓	↓	↓			1300	new	Fr152↑
23	X	23	08044495A-01A	5944	3.0"Hg→5psi	50mL	1.49	↓		1349	↓	IS↓/surr↑
24	✓	24	-01A	5794	3.0"Hg→5psi	50mL	1.49	↓		1427		
25	✓	25	-02A	4129	1.5"Hg→5psi	50mL	1.41	↓		1458		~~surr↑~~ 4/25/08
26	✓	26	-03A	5612	3.5"Hg→5psi	50mL	1.52	↓		1540		
27	✓	27	-04A	5699	2.5"Hg→5psi	50mL	1.46	↓		1606		
28	✓	28	-05A	05099	0.0"Hg→5psi	50mL	1.34	↓		1711	↓	
29	X	29	-06A	34444	26.5"Hg→5psi	50mL ~~4/25/08~~	~~1.49~~	↓		1740	↓	DF = 11.5, IS↓
30	✓	30	-06A	34444	26.5"Hg→5psi	50mL	11.5	↓		1829		
31	X	31	-07A	4243	3.0"Hg→5psi	50mL	1.49	↓	↓	1858	↓	IS↓

Comments:

Signature

4/25/08
Date

@ Air Toxics Ltd.

MSD-C

Logbook #: 1657

0465

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	
75	30.0 – 60.0% of mass 95	
95	Base peak, 100.00% relative abundance	
96	5.0 – 9.0% of mass 95	
173	Less than 2.0% of mass 174	( )[1]
174	50.0 – 100% of mass 95	
175	5.0 – 9.0% of mass 174	( )[1]
176	Greater than 95.0% but less than 101.0% of mass 174	( )[1]
177	5.0 – 9.0% of mass 176	( )[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: _____

BFB Injection Time: _____

BFB File ID: _____

Tekmar Purge Flow: _____

Vacuum: _____

IS/S Std.#:	Exp. Date:
BCM	
1,4-DFB	
CB-d5	

Verified CCV IS vs ICAL mid-point (- 40%D) _____ *initials*

Verify 176/174 m/z Ratio: _____

NOAH Cart #: _____ **File #:** _____

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\quad)}{(\quad)} \times \frac{(\quad)}{(\quad)} =$ 4/25/08A

Reported Result _____

File ID:
~~Compound:~~
Initials:

Method: _____

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	C042532	0804495A-07A	4243	3.0"Hg>5psi	50mL	1.49	A	4/25/08	1924	A	
2	X	↓ 33	↓ -04A	5699	2.5"Hg>5psi	50mL	1.46	A	↓	1955	↓	1S ↓
3												
4												
5											A	
6												4/25/08
7												

Signature

4/25/08
Date

Air Toxics Ltd.

Data file : /var/chem/msdc.i/15Apr2008.b/c041508.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 15-APR-2008 16:13
Operator : ly Inst ID: msdc.i
Smp Info : 2ul;1476-224;BFB
Misc Info : BFB
Comment :
Method : /var/chem/msdc.i/15Apr2008.b/bfb30.m
Meth Date : 15-Apr-2008 16:02 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
4.776	4.900	-0.124	95	276245			100.00- 100.00	100.00
4.776	4.900	-0.124	50	44282			15.00- 40.00	16.03
4.776	4.900	-0.124	75	130866			30.00- 60.00	47.37
4.776	4.900	-0.124	96	17314			5.00- 9.00	6.27
4.776	4.900	-0.124	173	0			0.00- 2.00	0.00
4.776	4.900	-0.124	174	188629			50.00- 100.00	68.28
4.776	4.900	-0.124	175	13330			5.00- 9.00	7.07
4.776	4.900	-0.124	176	181952			95.00- 101.00	96.46
4.776	4.900	-0.124	177	11856			5.00- 9.00	6.52

Data File: /chem/msdc.i/24Apr2008.b/c041508.d

Date : 15-APR-2008 16:13

Client ID: BFB

Instrument: msdc.i

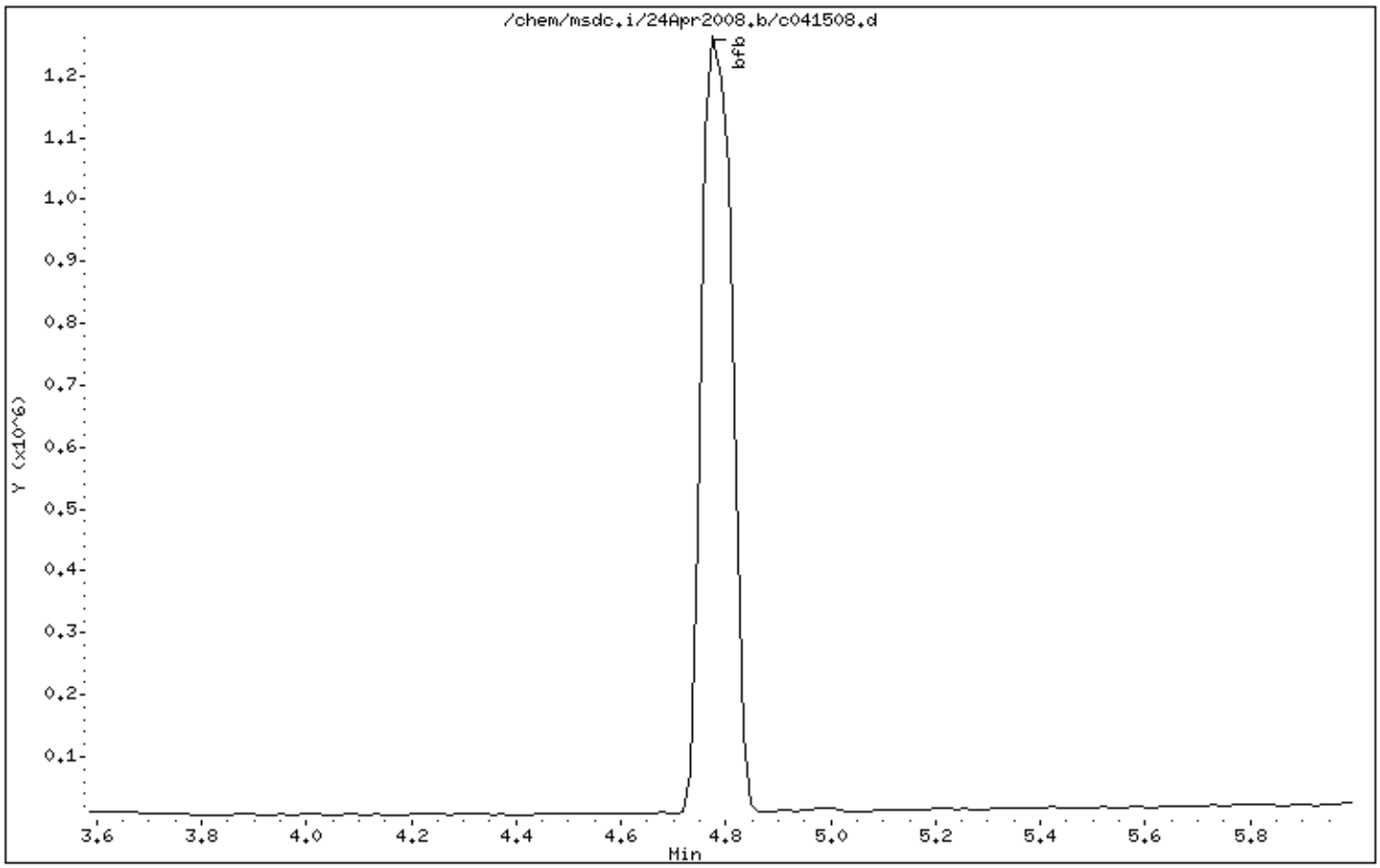
Sample Info: 2ul;1476-224;BFB

Volume Injected (uL): 1.0

Operator: ly

Column phase:

Column diameter: 2.00



Data File: /chem/msdc.i/24Apr2008.b/c041508.d

Date : 15-APR-2008 16:13

Client ID: BFB

Instrument: msdc.i

Sample Info: 2ul;1476-224;BFB

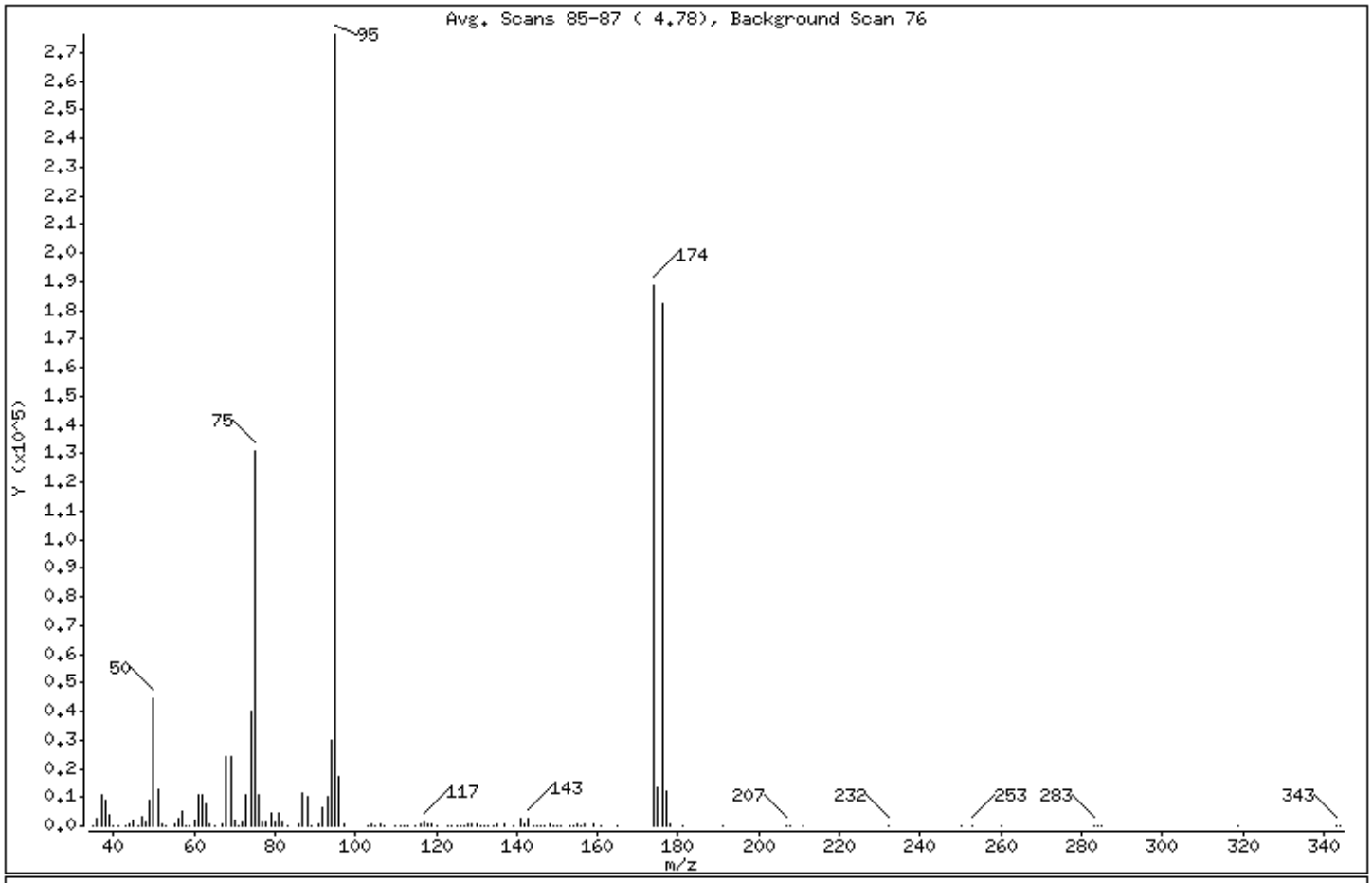
Volume Injected (uL): 1.0

Operator: ly

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.03
75	30.00 - 60.00% of mass 95	47.37
96	5.00 - 9.00% of mass 95	6.27
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	68.28
175	5.00 - 9.00% of mass 174	4.83 (7.07)
176	95.00 - 101.00% of mass 174	65.87 (96.46)
177	5.00 - 9.00% of mass 176	4.29 (6.52)

Data File: /chem/msdc.i/24Apr2008.b/c041508.d

Date : 15-APR-2008 16:13

Client ID: BFB

Instrument: msdc.i

Sample Info: 2ul;1476-224;BFB

Volume Injected (uL): 1.0

Operator: ly

Column phase:

Column diameter: 2.00

Data File: c041508.d
Spectrum: Avg. Scans 85-87 (4.78), Background Scan 76
Location of Maximum: 95.00
Number of points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	61	70.00	1802	112.00	39	150.00	239
36.00	2280	71.00	120	113.00	134	151.00	38
37.00	10599	72.00	1486	115.00	281	153.00	221
38.00	9123	73.00	10530	116.00	665	154.00	163
39.00	3852	74.00	40160	117.00	1413	155.00	534
40.00	198	75.00	130864	118.00	726	156.00	36
41.00	85	76.00	11029	119.00	895	157.00	474
43.00	142	77.00	1381	120.00	58	159.00	330
44.00	795	78.00	1156	123.00	88	161.00	255
45.00	1662	79.00	4602	124.00	102	165.00	75
46.00	80	80.00	1205	125.00	39	174.00	188608
47.00	3357	81.00	4591	126.00	34	175.00	13330
48.00	1496	82.00	1114	127.00	69	176.00	181952
49.00	9177	83.00	166	128.00	915	177.00	11856
50.00	44280	86.00	389	129.00	486	178.00	365
51.00	12898	87.00	11718	130.00	769	181.00	34
52.00	752	88.00	10107	131.00	300	191.00	22
53.00	98	89.00	36	132.00	81	207.00	70
55.00	530	91.00	654	133.00	106	208.00	45
56.00	2801	92.00	6534	134.00	39	211.00	33
57.00	5286	93.00	9983	135.00	459	232.00	39
58.00	160	94.00	29720	137.00	402	250.00	41
59.00	39	95.00	276224	139.00	34	253.00	275
60.00	2090	96.00	17312	141.00	2395	260.00	79
61.00	10567	97.00	637	142.00	342	283.00	41
62.00	10533	103.00	142	143.00	2495	284.00	35
63.00	7524	104.00	838	144.00	101	285.00	40
64.00	729	105.00	146	145.00	286	319.00	36
65.00	139	106.00	874	146.00	289	343.00	41
67.00	487	107.00	290	147.00	248	344.00	38
68.00	24048	110.00	44	148.00	581		
69.00	24224	111.00	146	149.00	183		

Air Toxics Ltd.

Data file : /var/chem/msdc.i/16Apr2008.b/c041601.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 16-APR-2008 15:09
Operator : ac Inst ID: msdc.i
Smp Info : 2.0uL;1476-224, BFB;BFB;
Misc Info : 2.0uL BFB
Comment :
Method : /var/chem/msdc.i/16Apr2008.b/bfb30.m
Meth Date : 16-Apr-2008 14:58 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
4.776	4.900	-0.124	95	167965			100.00- 100.00	100.00
4.776	4.900	-0.124	50	26682			15.00- 40.00	15.89
4.776	4.900	-0.124	75	77613			30.00- 60.00	46.21
4.776	4.900	-0.124	96	10795			5.00- 9.00	6.43
4.776	4.900	-0.124	173	0			0.00- 2.00	0.00
4.776	4.900	-0.124	174	110104			50.00- 100.00	65.55
4.776	4.900	-0.124	175	7437			5.00- 9.00	6.75
4.776	4.900	-0.124	176	106656			95.00- 101.00	96.87
4.776	4.900	-0.124	177	7293			5.00- 9.00	6.84

Data File: /chem/msdc.i/24Apr2008.b/c041601.d

Date : 16-APR-2008 15:09

Client ID: BFB

Instrument: msdc.i

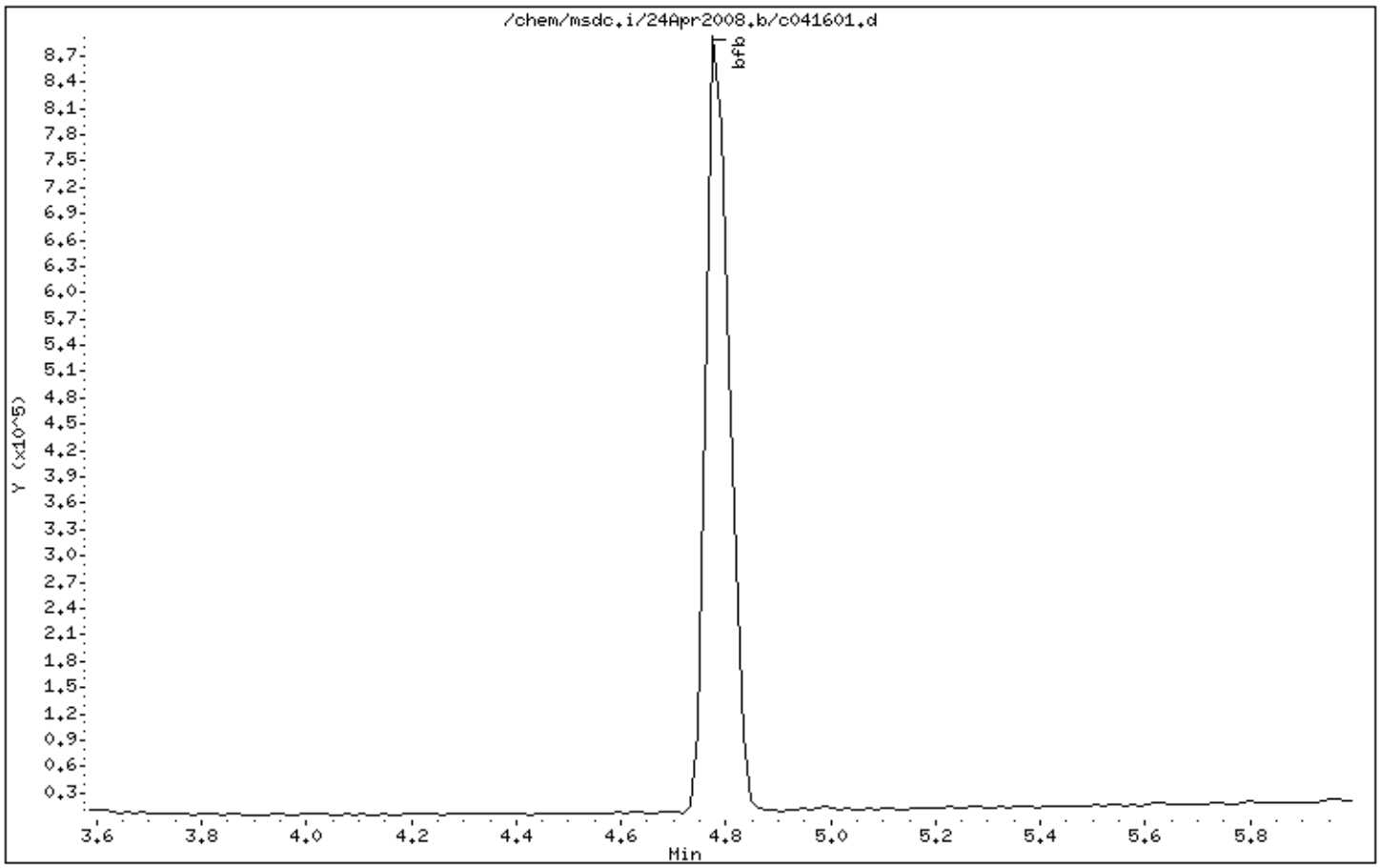
Sample Info: 2.0uL;1476-224, BFB;BFB;

Volume Injected (uL): 1.0

Operator: ac

Column phase:

Column diameter: 2.00



Data File: /chem/msdc.i/24Apr2008.b/c041601.d

Date : 16-APR-2008 15:09

Client ID: BFB

Instrument: msdc.i

Sample Info: 2.0uL;1476-224, BFB;BFB;

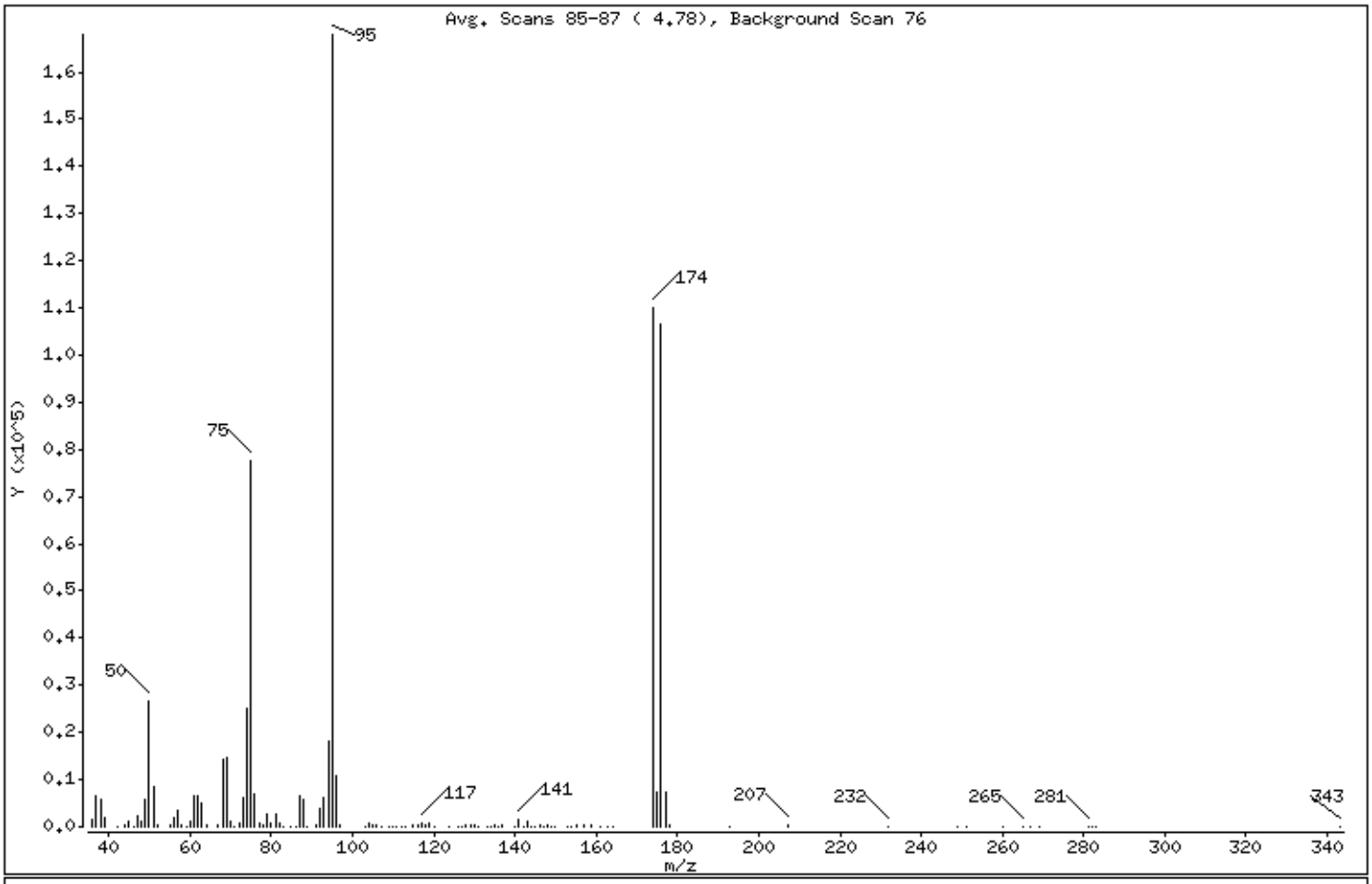
Volume Injected (uL): 1.0

Operator: ac

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.89
75	30.00 - 60.00% of mass 95	46.21
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	65.55
175	5.00 - 9.00% of mass 174	4.43 (6.75)
176	95.00 - 101.00% of mass 174	63.50 (96.87)
177	5.00 - 9.00% of mass 176	4.34 (6.84)

Date : 16-APR-2008 15:09

Client ID: BFB Instrument: msdc.i

Sample Info: 2.0uL;1476-224, BFB;BFB;

Volume Injected (uL): 1.0 Operator: ac

Column phase: Column diameter: 2.00

Data File: c041601.d
Spectrum: Avg. Scans 85-87 (4.78), Background Scan 76
Location of Maximum: 95.00
Number of points: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1411	73.00	6284	111.00	57	149.00	57
37.00	6441	74.00	25216	112.00	55	150.00	123
38.00	5746	75.00	77608	113.00	71	153.00	90
39.00	2118	76.00	6882	115.00	276	154.00	131
42.00	37	77.00	854	116.00	388	155.00	313
44.00	477	78.00	405	117.00	793	157.00	251
45.00	1165	79.00	2793	118.00	468	159.00	210
46.00	87	80.00	957	119.00	593	161.00	172
47.00	2263	81.00	2741	120.00	42	163.00	43
48.00	1070	82.00	610	124.00	49	164.00	38
49.00	5624	83.00	55	126.00	36	174.00	110104
50.00	26680	85.00	36	127.00	107	175.00	7437
51.00	8547	86.00	170	128.00	364	176.00	106656
52.00	202	87.00	6657	129.00	315	177.00	7293
55.00	200	88.00	5814	130.00	549	178.00	296
56.00	1981	89.00	41	131.00	139	193.00	99
57.00	3510	91.00	391	133.00	83	207.00	361
58.00	213	92.00	4012	134.00	43	232.00	83
59.00	43	93.00	6215	135.00	309	249.00	35
60.00	1201	94.00	17976	136.00	46	251.00	33
61.00	6437	95.00	167936	137.00	254	260.00	40
62.00	6728	96.00	10795	140.00	94	265.00	41
63.00	4940	97.00	361	141.00	1506	267.00	38
64.00	525	103.00	108	142.00	178	269.00	148
67.00	478	104.00	625	143.00	1288	281.00	179
68.00	14273	105.00	283	144.00	59	282.00	77
69.00	14693	106.00	556	145.00	140	283.00	41
70.00	1068	107.00	75	146.00	250	343.00	84
71.00	40	109.00	41	147.00	139		
72.00	825	110.00	36	148.00	348		

Air Toxics Ltd.

Data file : /var/chem/msdc.i/24Apr2008.b/c042410.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 24-APR-2008 12:36
Operator : ly Inst ID: msdc.i
Smp Info : 2uL,;1476-224;BFB;
Misc Info : BFB
Comment :
Method : /var/chem/msdc.i/24Apr2008.b/bfb30.m
Meth Date : 24-Apr-2008 12:24 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
4.636	4.900	-0.264	95	222797			100.00- 100.00	100.00
4.636	4.900	-0.264	50	38912			15.00- 40.00	17.47
4.636	4.900	-0.264	75	113808			30.00- 60.00	51.08
4.636	4.900	-0.264	96	15069			5.00- 9.00	6.76
4.636	4.900	-0.264	173	531			0.00- 2.00	0.35
4.636	4.900	-0.264	174	150520			50.00- 100.00	67.56
4.636	4.900	-0.264	175	11092			5.00- 9.00	7.37
4.636	4.900	-0.264	176	144077			95.00- 101.00	95.72
4.636	4.900	-0.264	177	9320			5.00- 9.00	6.47

Data File: /chem/msdc.i/24Apr2008.b/c042410.d

Date : 24-APR-2008 12:36

Client ID: BFB

Instrument: msdc.i

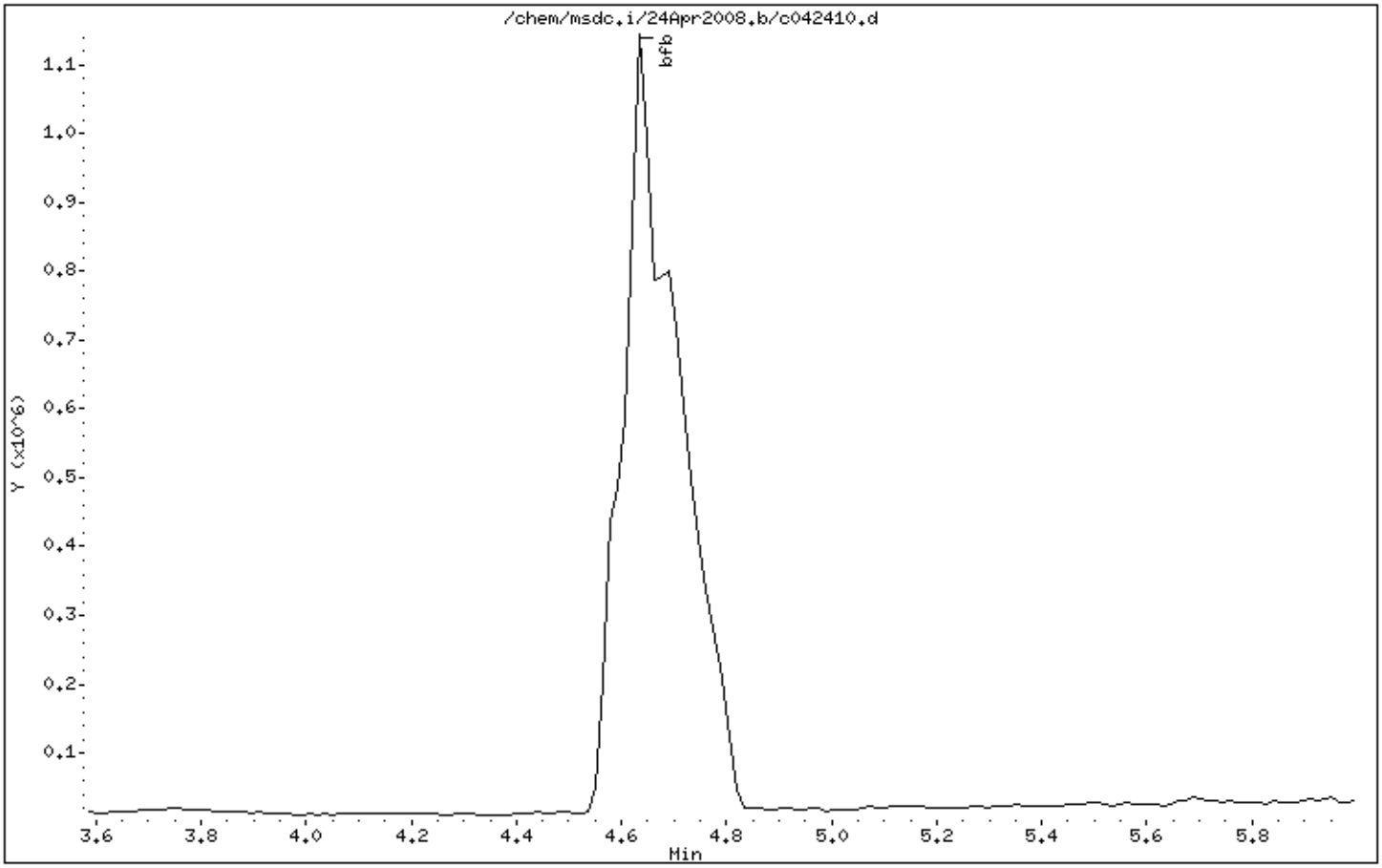
Sample Info: 2uL,;1476-224;BFB;

Volume Injected (uL): 1.0

Operator: ly

Column phase:

Column diameter: 2.00



Data File: /chem/msdc.i/24Apr2008.b/c042410.d

Date : 24-APR-2008 12:36

Client ID: BFB

Instrument: msdc.i

Sample Info: 2uL,;1476-224;BFB;

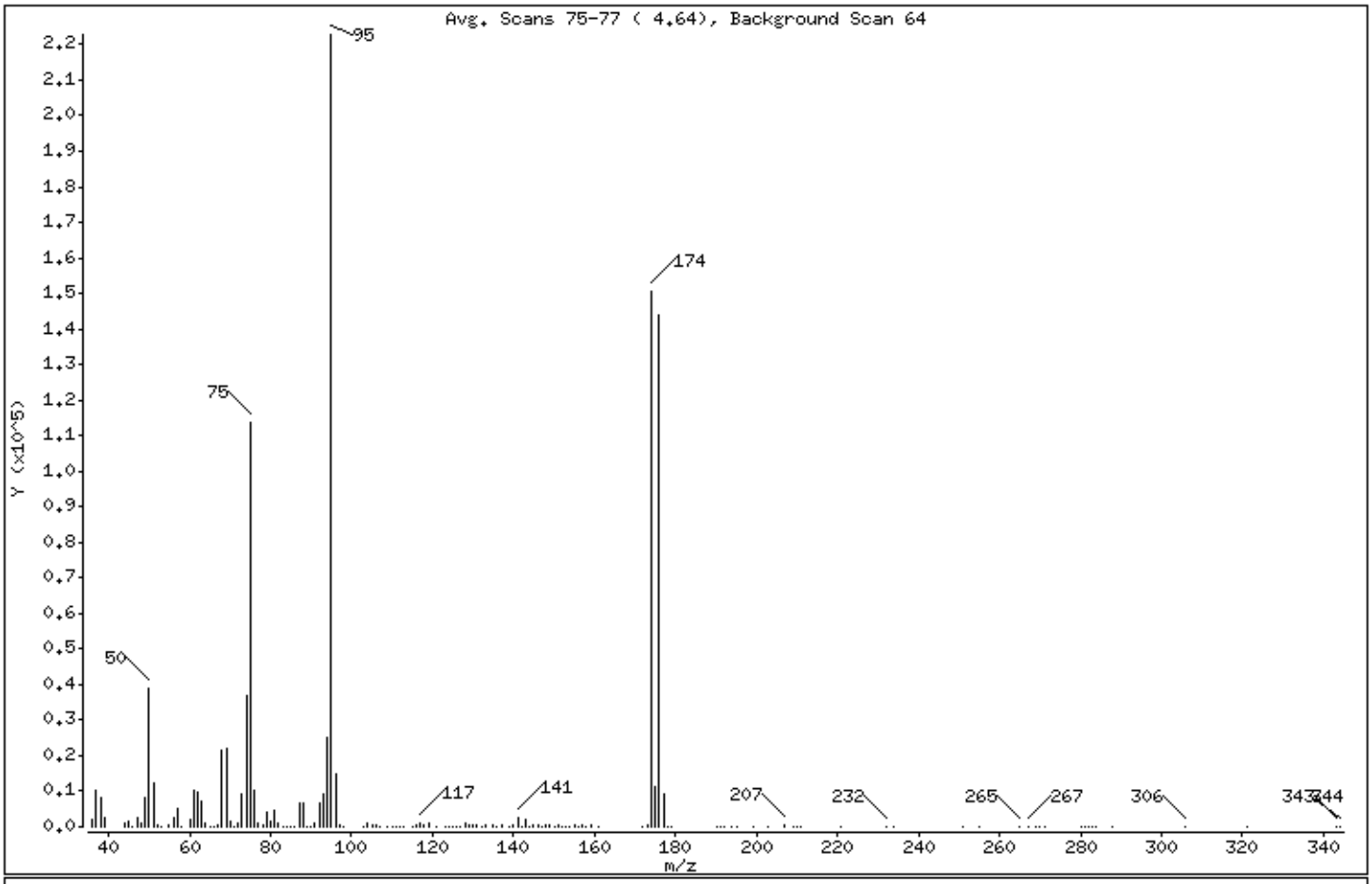
Volume Injected (uL): 1.0

Operator: ly

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.47
75	30.00 - 60.00% of mass 95	51.08
96	5.00 - 9.00% of mass 95	6.76
173	Less than 2.00% of mass 174	0.24 (0.35)
174	50.00 - 100.00% of mass 95	67.56
175	5.00 - 9.00% of mass 174	4.98 (7.37)
176	95.00 - 101.00% of mass 174	64.67 (95.72)
177	5.00 - 9.00% of mass 176	4.18 (6.47)

Date : 24-APR-2008 12:36

Client ID: BFB Instrument: msdc.i

Sample Info: 2uL,;1476-224;BFB;

Volume Injected (uL): 1.0 Operator: ly

Column phase: Column diameter: 2.00

Data File: c042410.d
Spectrum: Avg. Scans 75-77 (4.64), Background Scan 64
Location of Maximum: 95.00
Number of points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1900	80.00	1562	126.00	54	177.00	9320
37.00	10044	81.00	4485	127.00	174	178.00	200
38.00	8351	82.00	958	128.00	844	179.00	41
39.00	2589	83.00	58	129.00	399	190.00	41
44.00	813	84.00	37	130.00	713	191.00	35
45.00	1699	85.00	113	131.00	457	192.00	98
46.00	126	86.00	188	132.00	60	194.00	51
47.00	2314	87.00	6798	133.00	451	195.00	109
48.00	1160	88.00	6847	135.00	319	199.00	34
49.00	8149	89.00	169	136.00	118	203.00	59
50.00	38912	90.00	51	137.00	398	207.00	489
51.00	12526	91.00	889	139.00	117	209.00	170
52.00	422	92.00	6530	140.00	258	210.00	77
53.00	123	93.00	8966	141.00	2585	211.00	35
55.00	265	94.00	25280	142.00	242	221.00	65
56.00	2738	95.00	222784	143.00	2243	232.00	83
57.00	5211	96.00	15069	144.00	250	234.00	43
58.00	215	97.00	446	145.00	263	251.00	34
60.00	1983	98.00	67	146.00	312	255.00	34
61.00	10159	103.00	118	147.00	56	265.00	47
62.00	9639	104.00	797	148.00	453	267.00	119
63.00	7133	105.00	361	149.00	280	269.00	119
64.00	828	106.00	673	150.00	239	270.00	84
65.00	91	107.00	225	151.00	346	271.00	39
66.00	34	109.00	34	152.00	146	280.00	50
67.00	560	110.00	135	153.00	191	281.00	30
68.00	21256	111.00	180	154.00	112	282.00	101
69.00	21968	112.00	95	155.00	697	283.00	62
70.00	1330	113.00	242	156.00	109	284.00	38
71.00	94	115.00	230	157.00	312	288.00	51
72.00	932	116.00	661	158.00	45	306.00	45
73.00	9451	117.00	1272	159.00	343	321.00	39
74.00	37008	118.00	653	161.00	209	343.00	115
75.00	113808	119.00	1124	172.00	38	344.00	35
76.00	10006	121.00	38	173.00	531		

Date : 24-APR-2008 12:36

Client ID: BFB Instrument: msdc.i

Sample Info: 2uL,;1476-224;BFB;

Volume Injected (uL): 1.0 Operator: ly

Column phase: Column diameter: 2.00

Data File: c042410.d
Spectrum: Avg. Scans 75-77 (4.64), Background Scan 64
Location of Maximum: 95.00
Number of points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	1209	123.00	100	174.00	150464		
78.00	713	124.00	131	175.00	11092		
79.00	4305	125.00	70	176.00	144064		

Air Toxics Ltd.

Data file : /var/chem/msdc.i/25Apr2008.b/c042501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 25-APR-2008 00:45
Operator : JP Inst ID: msdc.i
Smp Info : 2.0uL,;1476-224;BFB
Misc Info : BFB
Comment :
Method : /var/chem/msdc.i/25Apr2008.b/bfb30.m
Meth Date : 25-Apr-2008 00:34 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
4.790	4.900	-0.110	95	211776			100.00- 100.00	100.00
4.790	4.900	-0.110	50	36048			15.00- 40.00	17.02
4.790	4.900	-0.110	75	109501			30.00- 60.00	51.71
4.790	4.900	-0.110	96	13692			5.00- 9.00	6.47
4.790	4.900	-0.110	173	0			0.00- 2.00	0.00
4.790	4.900	-0.110	174	141266			50.00- 100.00	66.71
4.790	4.900	-0.110	175	10368			5.00- 9.00	7.34
4.790	4.900	-0.110	176	137989			95.00- 101.00	97.68
4.790	4.900	-0.110	177	8872			5.00- 9.00	6.43

Data File: /chem/msdc.i/25Apr2008.b/c042501.d

Date : 25-APR-2008 00:45

Client ID: BFB

Instrument: msdc.i

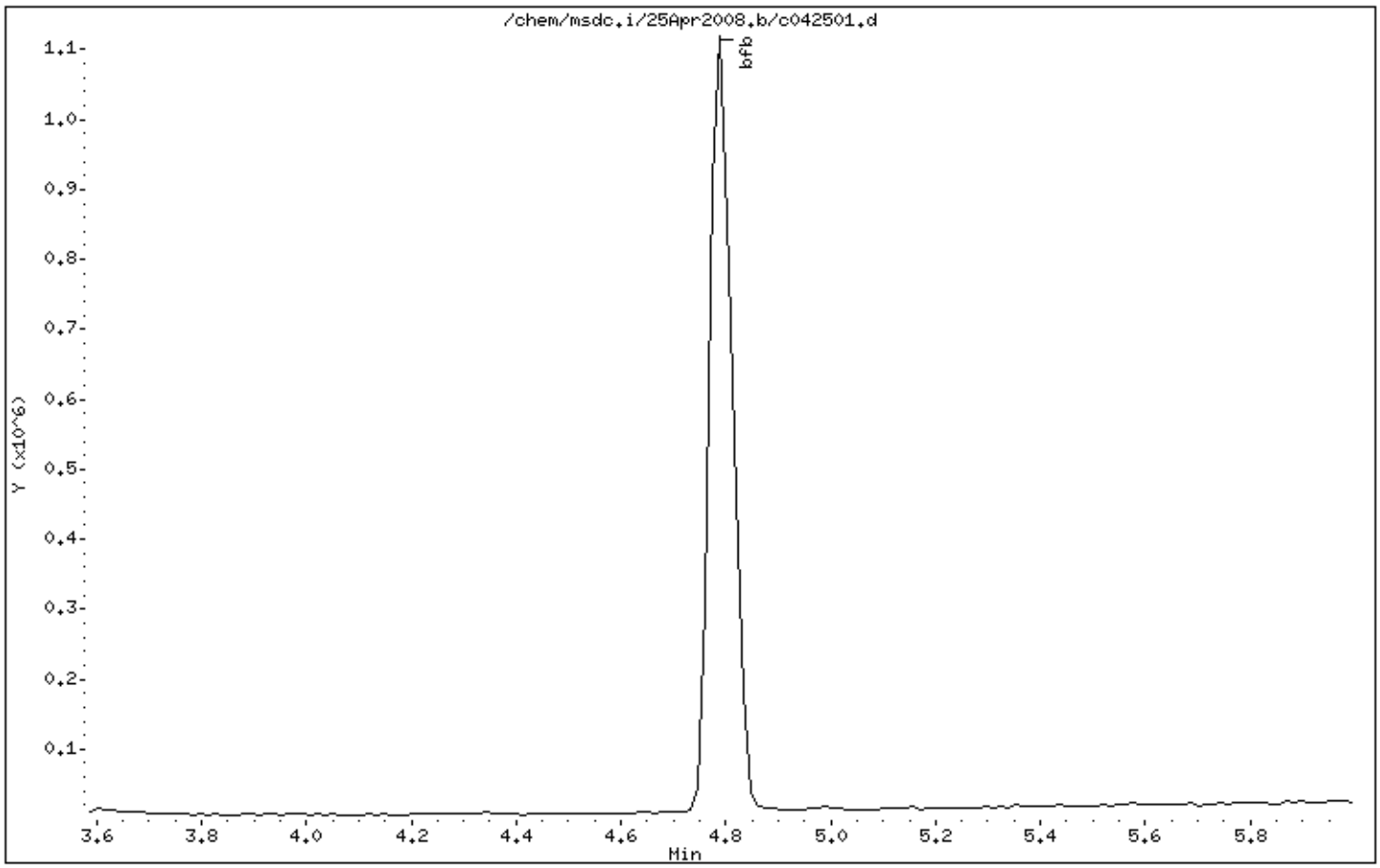
Sample Info: 2.0uL,:1476-224:BFB

Volume Injected (uL): 1.0

Operator: JP

Column phase:

Column diameter: 2.00



Data File: /chem/msdc.i/25Apr2008.b/c042501.d

Date : 25-APR-2008 00:45

Client ID: BFB

Instrument: msdc.i

Sample Info: 2.0uL,:1476-224:BFB

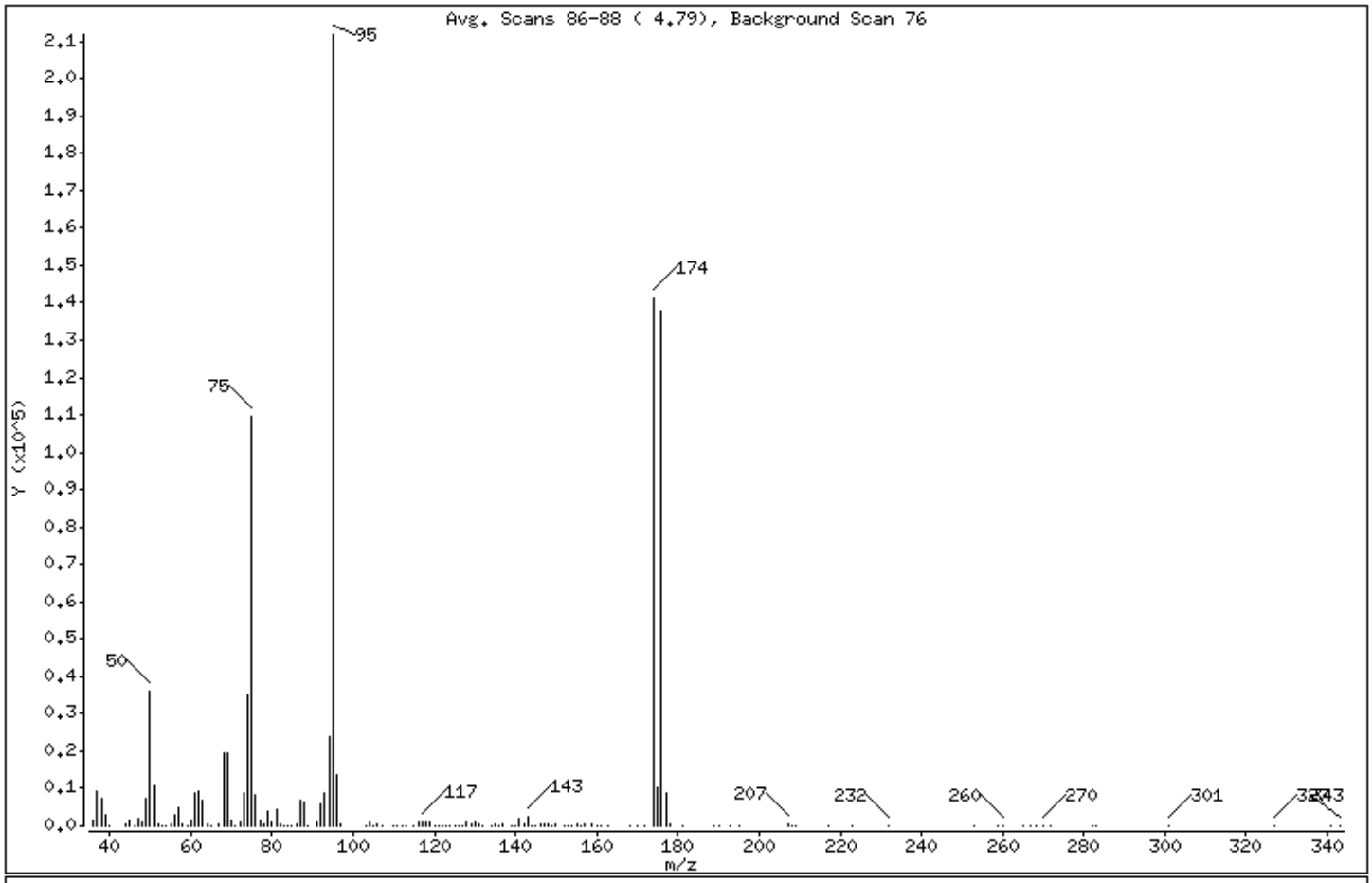
Volume Injected (uL): 1.0

Operator: JP

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.02
75	30.00 - 60.00% of mass 95	51.71
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	66.71
175	5.00 - 9.00% of mass 174	4.90 (7.34)
176	95.00 - 101.00% of mass 174	65.16 (97.68)
177	5.00 - 9.00% of mass 176	4.19 (6.43)

Date : 25-APR-2008 00:45

Client ID: BFB Instrument: msdc.i

Sample Info: 2.0uL,:1476-224;BFB

Volume Injected (uL): 1.0 Operator: JP

Column phase: Column diameter: 2.00

Data File: c042501.d
Spectrum: Avg. Scans 86-88 (4.79), Background Scan 76
Location of Maximum: 95.00
Number of points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1511	76.00	8511	121.00	40	161.00	44
37.00	9033	77.00	1289	122.00	117	163.00	53
38.00	7495	78.00	707	123.00	60	168.00	35
39.00	2827	79.00	3861	124.00	38	170.00	77
40.00	98	80.00	929	125.00	100	172.00	86
44.00	693	81.00	4238	126.00	104	174.00	141248
45.00	1505	82.00	633	127.00	190	175.00	10368
46.00	134	83.00	173	128.00	755	176.00	137984
47.00	2084	84.00	43	129.00	444	177.00	8872
48.00	918	85.00	46	130.00	749	178.00	247
49.00	7471	86.00	244	131.00	312	181.00	47
50.00	36048	87.00	6763	132.00	89	189.00	54
51.00	10674	88.00	6511	134.00	178	190.00	82
52.00	556	89.00	36	135.00	553	193.00	138
53.00	44	91.00	817	136.00	150	195.00	42
54.00	60	92.00	5697	137.00	393	207.00	245
55.00	677	93.00	8629	139.00	89	208.00	173
56.00	2696	94.00	23672	140.00	201	209.00	28
57.00	4783	95.00	211776	141.00	1931	217.00	36
58.00	311	96.00	13692	142.00	306	223.00	71
59.00	35	97.00	335	143.00	2258	232.00	122
60.00	1555	103.00	126	144.00	89	253.00	49
61.00	8933	104.00	768	145.00	153	259.00	36
62.00	9212	105.00	169	146.00	447	260.00	50
63.00	6760	106.00	705	147.00	263	265.00	44
64.00	728	107.00	148	148.00	488	267.00	33
65.00	124	110.00	66	149.00	118	268.00	39
67.00	663	111.00	238	150.00	252	270.00	158
68.00	19424	112.00	160	152.00	105	272.00	33
69.00	19472	113.00	76	153.00	186	282.00	156
70.00	1534	115.00	104	154.00	69	283.00	48
71.00	35	116.00	810	155.00	559	301.00	34
72.00	1040	117.00	1216	156.00	107	327.00	50
73.00	8941	118.00	767	157.00	550	341.00	34
74.00	35160	119.00	754	159.00	314	343.00	145

Date : 25-APR-2008 00:45

Client ID: BFB Instrument: msdc.i

Sample Info: 2.0uL,:1476-224:BFB

Volume Injected (uL): 1.0 Operator: JP

Column phase: Column diameter: 2.00

Data File: c042501.d
Spectrum: Avg. Scans 86-88 (4.79), Background Scan 76
Location of Maximum: 95.00
Number of points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	109496	120.00	96	160.00	34		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: Erler & Kalinowski, Inc.
ATTENTION: Mr. Adam Abeles
FAX #: 650-552-9012
FROM: Sample Receiving
Workorder #: 0804495A
# of pages (Including Cover): 1

5/13/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Kyle Vagadori at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

0804495

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

CONSULTING ENGINEERS AND SCIENTISTS — 1870 Ogden Drive, Burlingame CA 94010 — FAX 650-552-9512

Project Name: Presidio–Building 1640
Project No.: A700044.03
Location: 1640 Lyle Road, San Francisco, California 94129
Sampled By: Adam Abelen and Jessica Fedak
Billing: Electronic Format: Presidio EDD and EDF; Hard Copy Format: PDF; EPA Data Report Level: IV; Report Results to: babelen@erlerkalinowski.com; jfedak@erlerkalinowski.com; ngoodrich@erlerkalinowski.com
Laboratory: Air Toxics, Ltd., 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719, (916) 985-1000, (916) 985-1020 FAX

ANALYSES REQUESTED: EPA TO-15 (SVOCs); EPA TO-15 (VOCs); PLACE ON HOLD

EK COC No. 041508

Revision: A (A, B, C, D, etc.) — Revision Date:

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers and Preservative	SELECTED TURNAROUND TIME	Canister Pressure/Vacuum: Initial (in Hg)	Canister Pressure/Vacuum: Final (in Hg)	Canister Pressure/Vacuum: Receipt (in Hg)	Canister Pressure/Vacuum: Final (psi)	Sample Volume or Air stream through calibrated orifice (cc/min)
01A 1040561 01		4-16-08	1200	Air	1 6-Liter Summa	STD	30	35			1340
02A 1040561 06			1209				29	3			4129
03A 1040561 05			1214				30	4			1234
04A 1040561 04			1222				29	4			1193
05A 1040561 03			1221				30	4			5699
06A 1040561 02			1307				30	27			1970
DUP-1-041608 Dup-1-041608			1200				27	35			4243
1040561 01		4-19-08	1422		1 24hr Cartridge						20.89 Liters
1040561 06			1435								19.92 Liters
1040561 05			1445								20.76 Liters
1040561 03			1454								20.28 Liters
1040561 04			1459								20.24 Liters
DUP-1-041908			1608								19.81 Liters

Special Instructions: Please report all vapor results in µg/m³. Samples for SVOCs were collected at a later date due to incorrect sampling vessels. Sample collection time reflects time collection started.

Sample 1040561 02 (1040561 02) will be diluted. Please note, EKI is unsufficient gas exists for analysis.

Relinquished by:	Signature:	Date:	Time:	Received by:	Signature:	Date:	Time:
		4/21/08	1615	FED EX			
Relinquished by:	Signature:	Date:	Time:	Received by:	Signature:	Date:	Time:
				Monica Gregson ATL		4/22/08	830
Relinquished by:	Signature:	Date:	Time:	Received by:	Signature:	Date:	Time:

COC-Chrysen.COC

Revised COC - received 4/25/08 ATL

0486

0804495

0487

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

CONSULTING ENGINEERS AND SCIENTISTS — 1870 Ogden Drive, Burlingame CA 94010 — FAX: 650-552-9012

Project Name: Presidio--Building 1040
Project No.: A70004.19
Location: 1040 Edie Road, San Francisco, California 94129
Sampled By: Adam Abeles and Jessica Fadde
Reporting: Electronic Format: Presidio EDD and EDF; Hard Copy Format: PDF; EPA Data Report Level: IV; Report results to: aabeles@ekiconsult.com; zmailiga@ekiconsult.com; jdewitt@ekiconsult.com; nprozdnyakova@ekiconsult.com
Laboratory: Air Toxics, Ltd., 4879 Blue Ravine Road, Suite B, Folsom, CA 95630-4719, (916) 985-1000, (916) 985-1020 FAX
EKI COC No.: 041808

	Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers and Preservative	ANALYSES REQUESTED: EPA TO-15 (Method No. / Analyte Group: VOCs)	EPA TO-13a (SVOCs)	PLACE ON HOLD	EXPECTED TURN-AROUND TIME	Canister Pressure/Vacuum: Initial (in Hg)	Final (in Hg)	Receipt (in Hg)	Final (psi)	SUMMA ID # or Volume of Air drawn through cartridge (Liters)
01A	104056101		4-18-08	1200	A.S	1 6-Liter Summa	X			STD	20	3.5	3.0	5.0 psi	1340
02A	104056106			1209			X				29	3	1.5		4219
03A	104056105			1224			X				30	4	3.5		1234
04A	104056104			1222			X				29	4	2.5		1193
05A	104056103			1221			X				30	4	0.0		5699
06A	104056102			1307			X				30	27	26.5		1970
07A	1046 Dup-1-041908			1200			X				27	3.5	3.0	V	4243
	104056101		4-19-08	1422		1 XAD Cartridge		X							20.09 Liters
	104056106			1435				X							19.92 Liters
	104056105			1445				X							20.26 Liters
	104056103			1454				X							20.28 Liters
	104056104			1459				X							20.24 Liters
	Dup-1-041908			1608				X							19.81 Liters

Special Instructions: Please report all vapor results in µg/m³.
Samples for SVOCs were collected at a later date due to incorrect sampling vessels.
Sample collection time reflects time collection started.

Summa 1970 (104056102) had high downside vacuum. Please notify EKI if insufficient gas exists for analysis.

	(Signature/Affiliation)	Date	Time	
Relinquished by:	[signature] EKI	4/21/08	1615	Received by: FED EX
Relinquished by:	(Signature/Affiliation)	Date	Time	Received by: Monica Gregson AIT 4/22/08 8:30
Relinquished by:	(Signature/Affiliation)	Date	Time	Received by:

CHROMATOGRAPHIC INTEGRITY: Y / N / NONE — TEMP 6°C — Fed Ex

COC.xls/Vapor-COC

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0804495A

Client

Mr. Adam Abeles
Erler & Kalinowski, Inc.
1870 Ogden Drive
Burlingame, CA 94010-5306

Phone

650-292-9100

Fax

650-552-9012

Date Promised: 05/06/08
Date Completed: 5/5/08
Date Received: 4/22/08
PO#:
Project#: A70004.19 Presidio--Building 1040

Sales Rep: JJM

Total $: $ 2,106.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	1040SG101	Modified TO-15 (5&20 ppbv)	4/18/2008	3.0"Hg	$130.00
02A	1040SG106	Modified TO-15 (5&20 ppbv)	4/18/2008	1.5"Hg	$130.00
03A	1040SG105	Modified TO-15 (5&20 ppbv)	4/18/2008	3.5"Hg	$130.00
04A	1040SG104	Modified TO-15 (5&20 ppbv)	4/18/2008	2.5"Hg	$130.00
05A	1040SG103	Modified TO-15 (5&20 ppbv)	4/18/2008	0.0"Hg	$130.00
06A	1040SG102	Modified TO-15 (5&20 ppbv)	4/18/2008	26.5"Hg	$130.00
07A	Dup-1-041808	Modified TO-15 (5&20 ppbv)	4/18/2008	3.0"Hg	$130.00
08A	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA	$0.00
09A	CCV	Modified TO-15 (5&20 ppbv)	NA	NA	$0.00
10A	LCS	Modified TO-15 (5&20 ppbv)	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (13) @ $50.00 each., Shipment 58840	$650.00
	Soil Gas Sampling Manifold (6) @ $65.00 each., Shipment 58840	$390.00
	Fuel Surcharge (13) @ $3.00 each.	$39.00
	Client Specific EDD (7) @ $5.00 each.	$35.00
	eCVP (7) @ $10.00 each.	$70.00
	Fittings (6) @ $2.00 each.	$12.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Presidio Trust/11566

BILL TO: Mr. Adam Abeles
Erler & Kalinowski, Inc.
1870 Ogden Drive
Burlingame, CA 94010-5306

Analysis Code: TO-15 (5&20)

TERMS:

Reporting Method: Modified TO-15 (5&20 ppbv) + F152a

Sample Discrepancy Report KV

Identification

Initiated By: MG **Date:** 4/24/08 **Discrepancy Type:** (circle all that apply) (I.) (II.) III.

Workorder(s) affected: 0804495 **Sample(s) affected:** 02A, 06A

Project ID: 11566

I. Sample Receipt Discrepancies

Narration Not Required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☐ No brass cap on canister.
- ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.
- ☐ Sample date error/missing on COC but noted on sample tag (circle one).

Narration Required in Lab Narrative and Sample Confirmation:

- ☐ COC improperly relinquished / received.
- ☑ Sample tags (can numbers) do not match the COC.
- ☐ Samples received at wrong temperature (up to 10°C); ice / blue ice (circle one) was present. A temp. blank was / was not present (circle one).
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: Can# should be 4129

II. Sample Receipt/Screening Discrepancies requiring CSR notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out CSR must be notified within 24 hrs of initiation

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☐ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time (sulfur only) is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with significant (pooling) volume of H_2O in the Tedlar Bag.
- ☐ Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); Sample Can / cannot be analyzed (circle one).
- ☐ Tedlar Bag received leaking / flat (circle one). Sample Can / cannot (circle one) be analyzed.
- ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):
  - ☐ canister failed leak check on two manifolds, ☐ canister valve was open, ☐ brass nut was loose. Sample Can / cannot be analyzed (circle one).
- ☐ Tedlar bag / canister received emitting a strong odor; Sample Can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☑ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Sample was received at ≥ 10°C.
- ☐ Other (describe below)

Initials: BS **Date:** 4/25/08 (If not the original initiator)

☐ **CSR Notified** (see section below)

Describe the Discrepancy: Receipt Vacuum of 06A was 26.5"Hg

III. Lab Discrepancies requiring Team Leader/CSR notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out CSR must be notified within 24 hrs of initiation

- ☐ Tedlar Bag found to be leaking at the time of analysis; sample can / cannot (circle one) be analyzed.
- ☐ Tedlar Bag found to be flat at the time of analysis.
- ☐ Canister found to be leaking at the time of analysis.
- ☐ Tedlar Bag received at low volume; sample cannot be analyzed.
- ☐ Sulfur samples received with insufficient time to analyze prior to expiration.
- ☐ VOST tube saturated; bag dilution necessary.
- ☐ Sample loss due to instrument malfunction / broken glassware.
- ☐ Other (describe below).

Initials: _____ **Date:** _____ ☐ **CSR Notified**
(if not the original initiator) (see section below)

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

Client Services Use Only

Client Services Notification

CSR notified: JW Date: 4/25/08

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

CSR Initials: _____ Date: _____

☑ Client notification required. See attached client contact / email, or comments below:

Client Notification:

Person notified: ~~JW~~ A. Abeles Date: 4/25/08

Comments: Client faxed in edited COC

☐ Lab notified Name: _____ Date: _____

Additional Notifications

CSR notified: _____ Date: _____

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy by documenting on cover page of Sample Receipt Confirmation and in Receiving Notes/Analytical Notes of Lab Narrative.

CSR Initials: _____ Date: _____

☐ Client notification required. See attached client contact / email, or comments below:

Client Notification:

Person notified: _____ Date: _____

Comments: _____

☐ Lab notified Name: _____ Date: _____

☐ **Additional notifications attached.**

Other Records

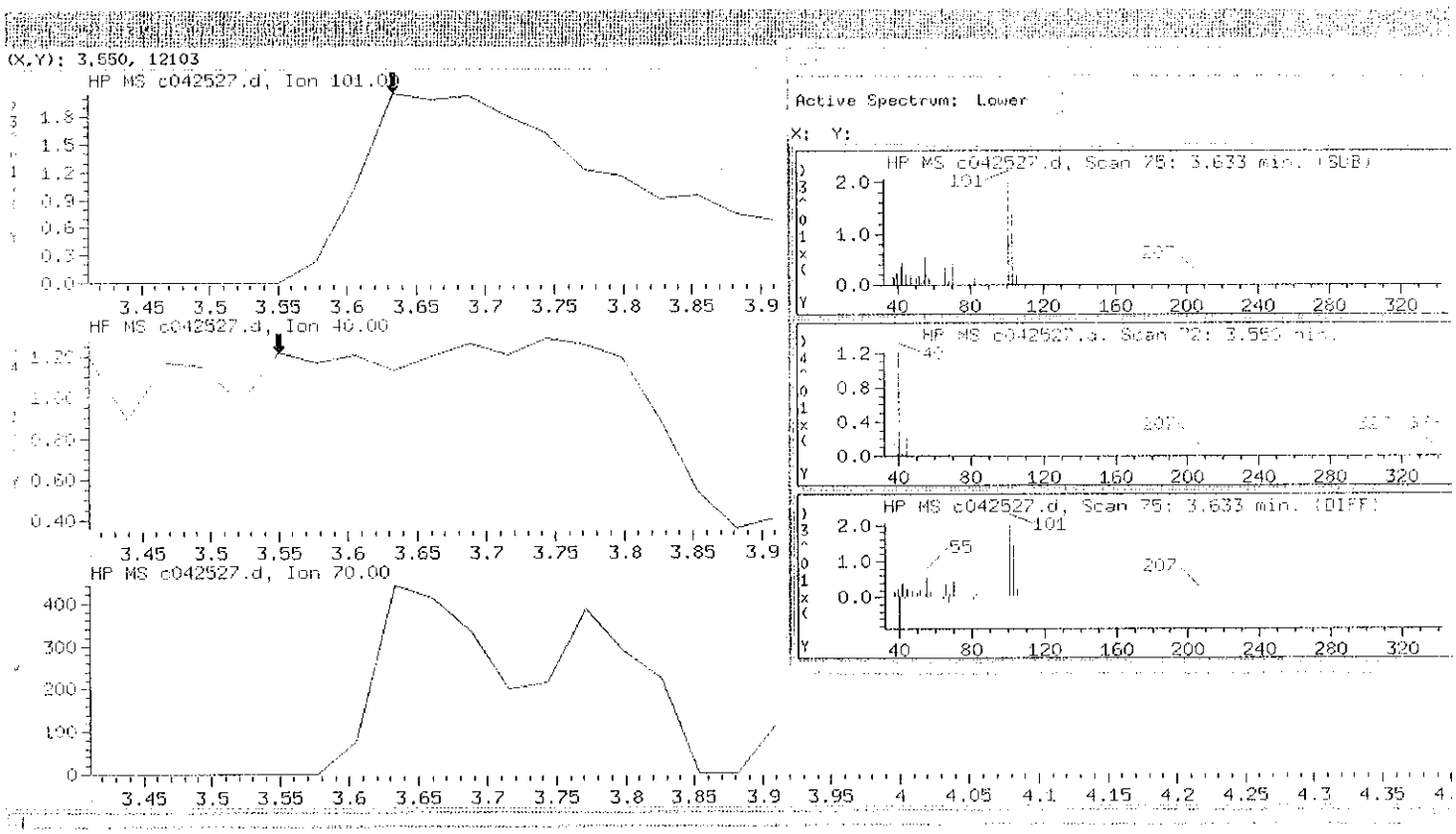
Background Subtraction

WJ 5/5/08

Sample ID: 0804495A – ~~05A~~ 04A

Compound: Fr 1

Date/Initials: 5/5/08 WJ

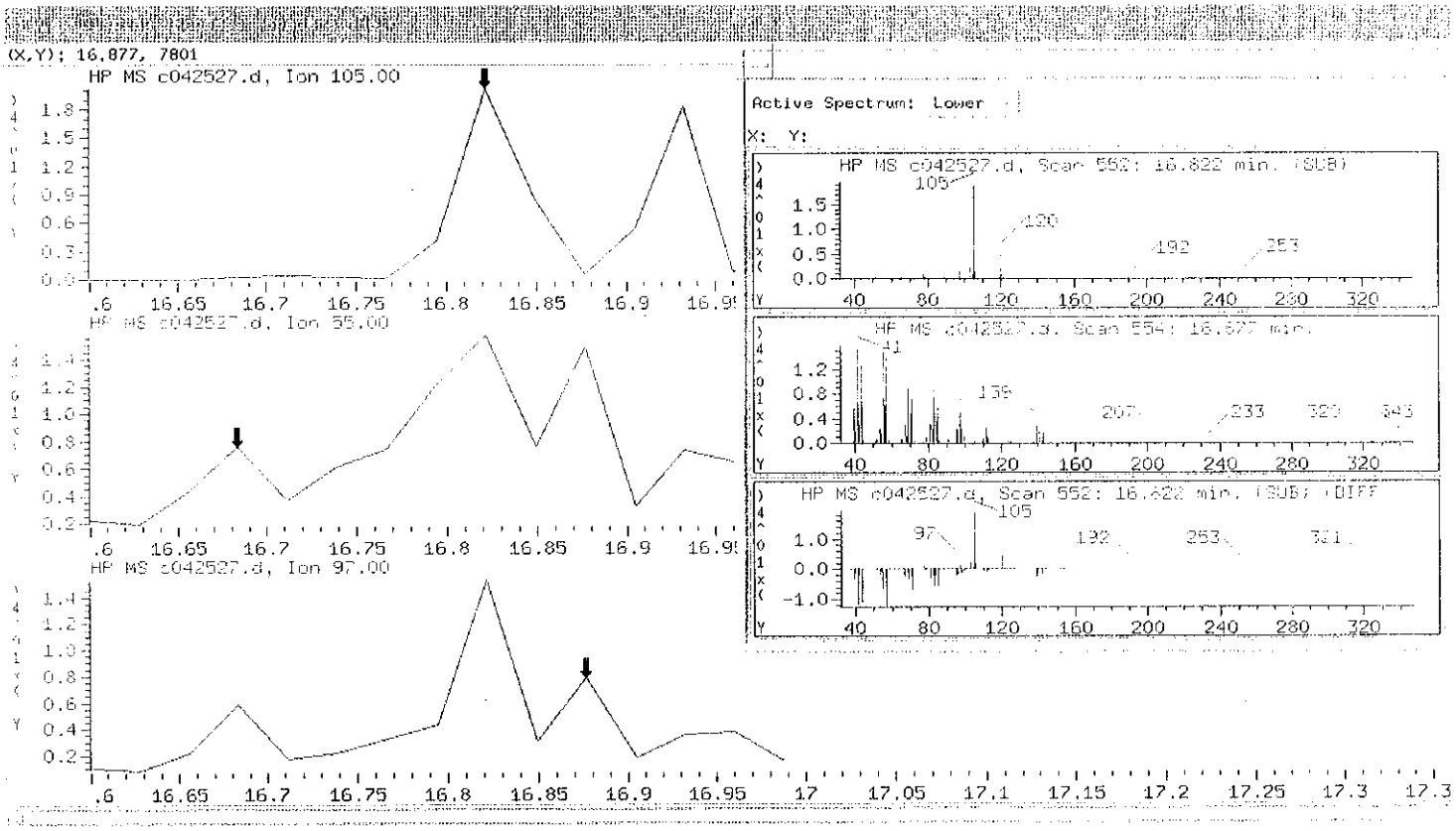


Background Subtraction

Sample ID: 0804695A-04A

Compound: 4-Ethyltoluene

Date/Initials: 5/5/08 LL

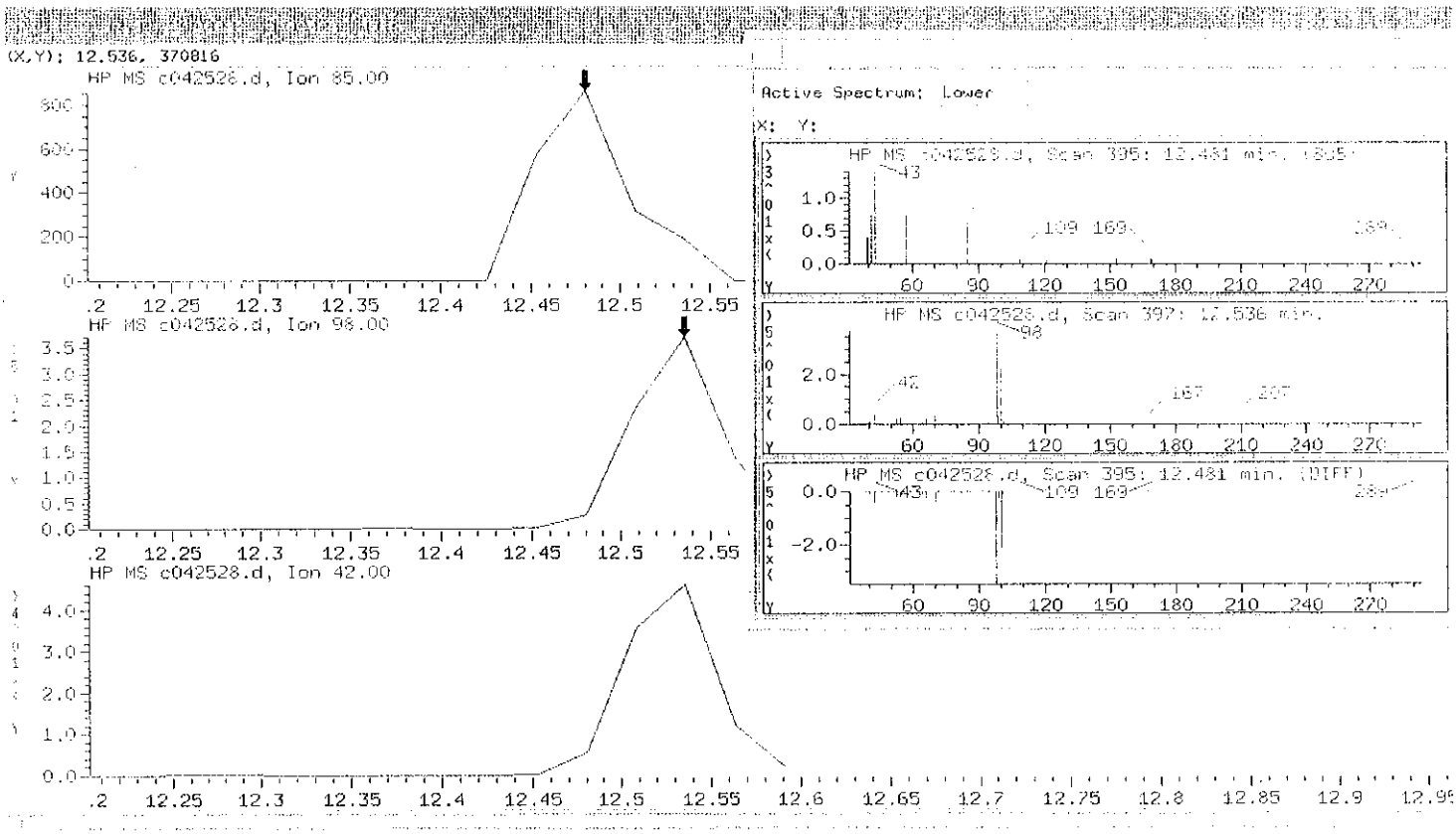


Background Subtraction

Sample ID: 0804495A-05A

Compound: 4-Methyl-2-pentanone

Date/Initials: 5/5/08 LI



DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7 psi + Final Pressure (psi)}}{\text{14.7 psi + Initial Pressure (psi)}}$$

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound Listing

Modified TO-15 (5&20 ppbv) + F152a

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	5.0	
76-14-2	Freon 114	5.0	
56-23-5	Carbon Tetrachloride	5.0	
540-84-1	2,2,4-Trimethylpentane	5.0	
71-43-2	Benzene	5.0	
107-06-2	1,2-Dichloroethane	5.0	
142-82-5	Heptane	5.0	
79-01-6	Trichloroethene	5.0	
78-87-5	1,2-Dichloropropane	5.0	
123-91-1	1,4-Dioxane	20	
75-27-4	Bromodichloromethane	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	
108-88-3	Toluene	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	
127-18-4	Tetrachloroethene	5.0	
591-78-6	2-Hexanone	20	
124-48-1	Dibromochloromethane	5.0	
106-93-4	1,2-Dibromoethane (EDB)	5.0	
108-90-7	Chlorobenzene	5.0	
100-41-4	Ethyl Benzene	5.0	
108-38-3	m,p-Xylene	5.0	
95-47-6	o-Xylene	5.0	
100-42-5	Styrene	5.0	
75-25-2	Bromoform	5.0	
98-82-8	Cumene	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	
103-65-1	Propylbenzene	5.0	
622-96-8	4-Ethyltoluene	5.0	
108-67-8	1,3,5-Trimethylbenzene	5.0	
95-63-6	1,2,4-Trimethylbenzene	5.0	
541-73-1	1,3-Dichlorobenzene	5.0	
106-46-7	1,4-Dichlorobenzene	5.0	
100-44-7	alpha-Chlorotoluene	5.0	
95-50-1	1,2-Dichlorobenzene	5.0	
120-82-1	1,2,4-Trichlorobenzene	20	
87-68-3	Hexachlorobutadiene	20	
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		
460-00-4	4-Bromofluorobenzene		
75-37-6	1,1-Difluoroethane	20	
74-87-3	Chloromethane	20	
75-01-4	Vinyl Chloride	5.0	
106-99-0	1,3-Butadiene	5.0	
74-83-9	Bromomethane	5.0	

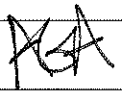
Compound Listing

Modified TO-15 (5&20 ppbv) + F152a

CAS Number	Compound	Detection Limit ppbv	Type
75-00-3	Chloroethane	5.0	
75-69-4	Freon 11	5.0	
64-17-5	Ethanol	20	
76-13-1	Freon 113	5.0	
75-35-4	1,1-Dichloroethene	5.0	
67-64-1	Acetone	20	
67-63-0	2-Propanol	20	
75-15-0	Carbon Disulfide	5.0	
107-05-1	3-Chloropropene	20	
75-09-2	Methylene Chloride	5.0	
1634-04-4	Methyl tert-butyl ether	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	
110-54-3	Hexane	5.0	
75-34-3	1,1-Dichloroethane	5.0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	
109-99-9	Tetrahydrofuran	5.0	
67-66-3	Chloroform	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	
110-82-7	Cyclohexane	5.0	

File Name: O:\Variances\0408-001
Profile: N/A
Date: 04/07/2008
Reviewer Initials: BA

Air Toxics Limited – Variance Requests
Presidio Trust

Parameter	SOW	ATL SOP	Approval
A1 Introduction	USEPA Method TO-15.	Please refer to the attached method modifications table, the QC tables and the reporting limits.	
Laboratory procedures	MS/MSD.	MS/MSDs are not applicable to air analyses.	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0804495A

A	R	T	M	Q	
☑	☑	☑	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
	☑	☑	☑	☐	The final report has the correct reporting list, special units, and header info.
	☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	NA	NA	NA	☐	Corrective Action issued - #
☐	☐	☐	☐	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* ***CIRCLE (YES / NO)***

☑	☐	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☐	☐	☐	☐	Hold time is met for all samples
	☐	☐	☐	☐	Appropriate data qualifier flags are applied
	☐	☐	☐	☐	Manual integrations for samples and QC are properly documented
☑	☐	☐		☐	Samples analyzed within the project or method specific clock
	☐	☐			Retention times have been verified
☑	☐	☐		☐	Appropriate ICAL(s) included
	☐	☐	☐	☐	At least one result per sample is verified against the target quant sheets/raw data

☑	☑	☑	☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☑		Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☑		Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	NA	NA		TICs resemble reference spectra
	☐	☐		TICs between duplicate samples are consistent
☑	☑	☑	☐	Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	NA	NA		Special units for all samples in the final report are correctly calculated
	NA	☐		Manually entered results checked (i.e. special CCV compounds)
	☐	☐		TPH/NMOC (verify calculations and correct reference compound used)
	☑			Chain of Custody scanned correctly
		☐		Verify sample id's vs. chain of custody
☑	☑			Samples pressurized w/ appropriate gas (N_2 or He) ☐ Tedlar Bag only
☑	☑			Final pressure consistent with canister size (6L vs. 1L)
☑	☑			Verify receipt pressures against logbook and Target
☑	☑			Verify canister ID #'s
	NA	NA		Extra printed copies are provided per client profile
	☑	☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☑	☐	Client LUMEN report reviewed for accuracy and completeness

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: Spectral defense on 04A and 05A as the reference for the rests.

M/Q:

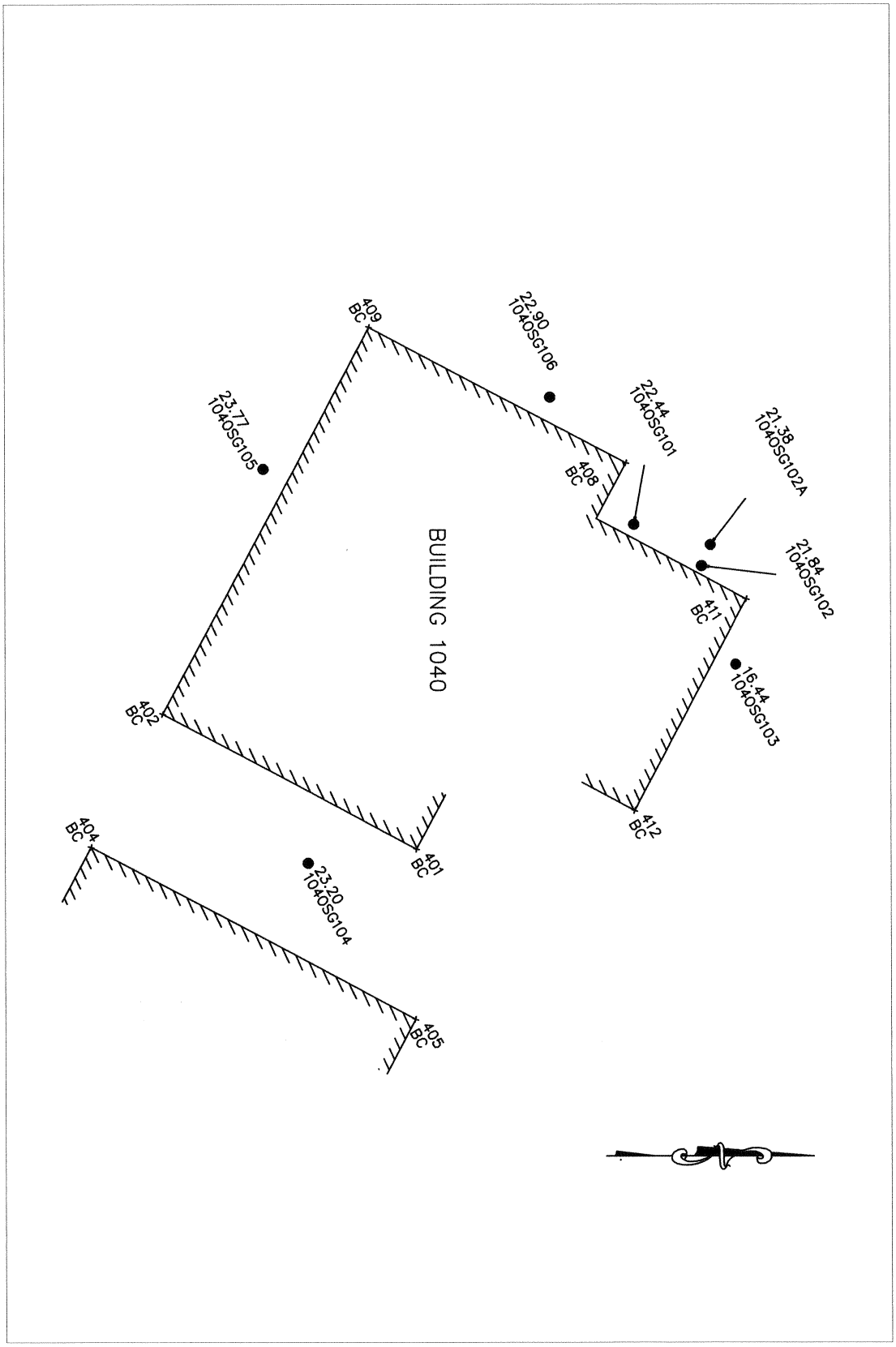
A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
A 4/25/08	R: MM 5/5/08	MM 5/5/08	
	T: MM 5/5/08		

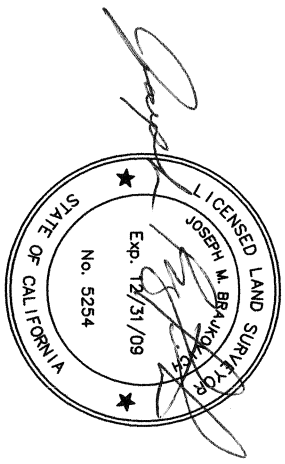
Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 08/29/05
Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable

APPENDIX C

SURVEY RESULTS





PLS SURVEYS, INC.
LAND & HYDROGRAPHIC SURVEYORS
2220 Livingston Street, Suite 202
Oakland, California 94606-5203
510.261.0900 FAX 510.261.3303
e-mail: plssurv@pacbell.net

SAMPLE LAYOUT
BUILDING 1040
PRESIDIO

SAN FRANCISCO CALIFORNIA

SCALE	1"=30'
DATE	05/05/08
BY	JMB
JOB NO.	08-028

PLS Survevy Inc.
5/9/2008

BUILDING 1040

PT.	NORTHING	EASTING	LATTITUDE	LONGITUDE	ELEVATION	ELEVATION	ELEVATION	DESCRIPTION	GPS	ACCURACY	HORZ.	COMPANY	EQUIP.	DATE	ELEV	CLASS
NO.	NAD 27	NAD 27			NGVD 29	PLLW	PLLW		CODE	CENTIMETER	CODE				CODE	
						T&R	KAMMAN									
					GROUND	GROUND	GROUND									
401	479920.17	1436372.85	32.0711811	-137.0535878				BC	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
402	479868.41	1436345.28	32.0710284	-137.0536458				BC	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
404	479853.90	1436372.46	32.0710024	-137.0535516				BC	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
405	479919.87	1436407.57	32.0711970	-137.0534779				BC	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
406	479897.87	1436375.72	32.0711224	-137.0535662	23.20	26.04	26.26	104OSG104	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
407	479888.81	1436295.35	32.0710593	-137.0538152	23.77	26.61	26.61	104OSG105	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
408	479962.75	1436294.12	32.0712578	-137.0538609				BC	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
409	479910.53	1436266.40	32.0711039	-137.0539191				BC	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
411	479987.49	1436321.90	32.0713378	-137.0537871				BC	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
412	479964.39	1436365.00	32.0712964	-137.0536377				BC	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
413	479985.31	1436335.21	32.0713384	-137.0537437	16.44	19.28	19.28	104OSG103	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
414	479978.29	1436315.14	32.0713098	-137.0538032	21.84	24.68	24.68	104OSG102	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
415	479980.13	1436310.83	32.0713127	-137.0538179	21.38	24.22	24.22	104OSG102A	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
416	479947.35	1436280.71	32.0712099	-137.0538946	22.90	25.74	25.74	104OSG106	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR
417	479964.35	1436306.69	32.0712682	-137.0538221	22.44	25.28	25.28	104OSG101	RTK	0.5	NAD 27	PLS SURVEYS INC.	L530	4/14/2008	CGPS	SUR

APPENDIX D

DATA VALIDATION REPORT

TO: John DeWitt, Erler & Kalinowski, Inc. June 17, 2008

FROM: Donna Breaux, DataVal, Inc. Erler & Kalinowski Project No. A700004.19

DB 6/17/08

DATA VALIDATION SUMMARY REPORT FOR THE BUILDING 1040 SAMPLING EVENT, THE PRESIDIO OF SAN FRANCISCO, CA

LABORATORY: Air Toxics, Ltd., Folsom, CA

SAMPLING DATES: April 18 and 19, 2008

Data validation of Level IV laboratory data packages was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan, April, 2001; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Low Concentration Organic Data Review, June, 2001.

The data were reviewed for holding times, surrogate recoveries, laboratory blanks, laboratory control samples, matrix spikes and matrix spike duplicates, GC/MS tunes, initial calibrations, continuing calibration verification standards, internal standards, field QC samples and compound identification and quantitation.

The following paragraphs highlight the essential findings of the data validation effort:

I. **Volatile Organic Compounds (VOCs) by GC/MS (TO-15)**
Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections H and J.

A. Reporting Limits
Project required reporting limits are not listed in the QAPP for VOCs in air matrix samples.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples, with the following exception:

1. The 4/24/08 air matrix initial calibration analyzed on instrument MSD-C had bromomethane with a percent relative standard deviation (%RSD) greater than the 30% acceptance criteria at 35%. The non-detect results for bromomethane in the associated project samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of samples qualified for initial calibration percent relative standard deviation failure.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples, with the following exception:

1. One project sample had an internal standard area outside the -40% to +40% acceptance criteria. The non-detect results for the compounds associated with the outlying internal standard were qualified as rejected (R). The following table lists the sample with a failing internal standard.

Project Sample ID	Laboratory Sample ID	Internal Standard	Area Count	Area Acceptance Range
DUP-1-041808	0804495A-07A	1,4-Difluorobenzene	1160223	1162192-2711782

See Table 2 of this report for a summary of samples qualified for internal standard area count failure.

K. Compound Identification and Quantitation
All samples in laboratory sample delivery group 0804495A received full (Level IV) data validation. This included re-calculation of surrogate values, GC/MS tunes, initial and continuing calibrations and internal standard areas; in addition to re-calculation of all reported results for VOCs in these samples. The reported results for VOCs in these samples were verified as correctly reported by the laboratory.

II. Polycyclic Aromatic Hydrocarbons (PAHs) by GC/MS (TO-13A)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
Project required reporting limits are not listed in the QAPP for PAHs in air filter samples.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

K. Compound Identification and Quantitation
All samples in laboratory sample delivery group 0804495BR1 received full (Level IV) data validation. This included re-calculation of surrogate values, GC/MS tunes, initial and continuing calibrations and internal standard areas; in addition to re-calculation of all reported results for PAHs in these

samples. The reported results for PAHs in these samples were verified as correctly reported by the laboratory.

FIELD DUPLICATES

Field duplicate precision was evaluated by calculating the relative percent difference (RPD) between detected results in the original sample and its associated duplicate. The control limit used for field duplicates was an RPD less than or equal to 50 percent, or the absolute difference of the two results must be less than twice the reporting limit for those analytes that were at or near the detection limit. Two samples were collected in duplicate for the Building 1040 sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Duplicate ID	Laboratory Sample ID
1040SG101	0804495A-01A	DUP-1-041808	0804495A-07A
1040SG101	0804495BR1-08A	DUP-1-041908	0804495BR1-13A

The attached Table 3 summarizes the field duplicate sample results. All compounds were non-detect in the field duplicate pairs.

SUMMARY

The attached Table 1 lists the samples and analyses included in the data validation effort. All samples received full (Level IV) data validation. The attached Table 2 summarizes the data qualifications required for the project samples for each test method included in the data packages.

USABILITY

The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Rejected sample results (R) are not usable for any purpose. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory and full data validation, all other results are considered valid and usable for all purposes.

VALIDATION QUALIFIERS IDENTIFICATION

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October, 1999.

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. *A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.*

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 1
Sample Summary
Building 1040
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
1040SG101	**0804495A-01A**	**18-Apr-08**	**Volatile organic compounds (TO-15)**	**Air (1)**
1040SG106	**0804495A-02A**	**18-Apr-08**	**Volatile organic compounds (TO-15)**	**Air**
1040SG105	**0804495A-03A**	**18-Apr-08**	**Volatile organic compounds (TO-15)**	**Air**
1040SG104	**0804495A-04A**	**18-Apr-08**	**Volatile organic compounds (TO-15)**	**Air**
1040SG103	**0804495A-05A**	**18-Apr-08**	**Volatile organic compounds (TO-15)**	**Air**
1040SG102	**0804495A-06A**	**18-Apr-08**	**Volatile organic compounds (TO-15)**	**Air**
DUP-1-041808	**0804495A-07A**	**18-Apr-08**	**Volatile organic compounds (TO-15)**	**FD (1)**
1040SG101	**0804495BR1-08A**	**19-Apr-08**	**Polycyclic aromatic hydrocarbons (TO-13A)**	**Air Filter (2)**
1040SG106	**0804495BR1-09A**	**19-Apr-08**	**Polycyclic aromatic hydrocarbons (TO-13A)**	**Air Filter**
1040SG105	**0804495BR1-10A**	**19-Apr-08**	**Polycyclic aromatic hydrocarbons (TO-13A)**	**Air Filter**
1040SG103	**0804495BR1-11A**	**19-Apr-08**	**Polycyclic aromatic hydrocarbons (TO-13A)**	**Air Filter**
1040SG104	**0804495BR1-12A**	**19-Apr-08**	**Polycyclic aromatic hydrocarbons (TO-13A)**	**Air Filter**
DUP-1-041908	**0804495BR1-13A**	**19-Apr-08**	**Polycyclic aromatic hydrocarbons (TO-13A)**	**FD (2)**

FD: Field duplicate of previous numbered sample, (1), (2), etc.

BOLD: Bold typeface indicates samples/analyses that received full (Level IV) data validation

Table 2
Qualified Data Summary
Building 1040
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
1040SG101	0804495A-01A	TO-15	Bromomethane	UJ	Initial calibration percent relative standard deviation failure
1040SG106	0804495A-02A	TO-15	Bromomethane	UJ	Initial calibration percent relative standard deviation failure
1040SG105	0804495A-03A	TO-15	Bromomethane	UJ	Initial calibration percent relative standard deviation failure
1040SG104	0804495A-04A	TO-15	Bromomethane	UJ	Initial calibration percent relative standard deviation failure
1040SG103	0804495A-05A	TO-15	Bromomethane	UJ	Initial calibration percent relative standard deviation failure
1040SG102	0804495A-06A	TO-15	Bromomethane	UJ	Initial calibration percent relative standard deviation failure
DUP-1-041808	0804495A-07A	TO-15	Bromomethane	UJ	Initial calibration percent relative standard deviation failure
DUP-1-041808	0804495A-07A	TO-15	Benzene	R	Internal standard area count failure
DUP-1-041808	0804495A-07A	TO-15	1,2-Dichloroethane	R	Internal standard area count failure
DUP-1-041808	0804495A-07A	TO-15	Heptane	R	Internal standard area count failure
DUP-1-041808	0804495A-07A	TO-15	Trichloroethene	R	Internal standard area count failure
DUP-1-041808	0804495A-07A	TO-15	1,2-Dichloropropane	R	Internal standard area count failure
DUP-1-041808	0804495A-07A	TO-15	1,4-Dioxane	R	Internal standard area count failure
DUP-1-041808	0804495A-07A	TO-15	Bromodichloromethane	R	Internal standard area count failure
DUP-1-041808	0804495A-07A	TO-15	cis-1,3-Dichloropropene	R	Internal standard area count failure
DUP-1-041808	0804495A-07A	TO-15	4-Methyl-2-pentanone	R	Internal standard area count failure
DUP-1-041808	0804495A-07A	TO-15	Toluene	R	Internal standard area count failure

Table 3
Summary of Field Duplicates
Building 1040
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
1040SG101	0804495A-01A	Air	All VOCs	ND	DUP-1-041808	0804495A-07A	ND	NA
1040SG101	0804495BR1-08A	Air filter	All PAHs	ND	DUP-1-041908	0804495BR1-13A	ND	NA

*Units for VOC analyses in air are ppbv.

RPD: Relative percent difference

VOCs: Volatile organic compounds

PAHs: Polycyclic aromatic hydrocarbons

ND: Not detected

NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.

BUILDING 1065 AREA SITE-SPECIFIC ADDENDUM TO THE PRESIDIO TRUST LAND USE CONTROLS MASTER REFERENCE REPORT

PRESIDIO OF SAN FRANCISCO, CALIFORNIA

Prepared for:

The Presidio Trust
34 Graham Street, P.O. Box 29052
San Francisco, California 94129-0052

Prepared by:

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, California 94954

March 2009

CONTENTS

Page

1.0 INTRODUCTION 1-1

2.0 AREAS INCLUDED IN THE LAND USE CONTROL AND TYPES OF LAND USE RESTRICTIONS FOR THE BUILDING 1065 AREA 2-1

3.0 REMEDIATION SUMMARY AND CHEMICALS OF CONCERN 3-1

3.1 Site History 3-1
3.2 Summary of Remedial Actions at the Site 3-1
3.3 Site Conditions and COCs Within Land Use Control Zones 3-2

4.0 SITE-SPECIFIC LAND USE RESTRICTIONS AND O&M/MONITORING REQUIREMENTS 4-1

4.1 Land Use Restrictions 4-1
4.2 O&M/Monitoring Requirements 4-2

5.0 REFERENCES 5-1

Tables:

1. Summary of LUC Zones, COCs, and Applicable Land Use Restrictions at the Building 1065 Area
2. Building 1065 Area Land Use Restrictions

Figures:

1. Site Location Map, Building 1065 Area
2. Land Use Control Zones, Building 1065 Area
3. Land Use Control Zone Coordinates, Building 1065 Area

Attachment:

Surface Cover Inspection Form, LUC Zones 1, 2, and 3, Building 1065 Area, Presidio of San Francisco, California.

1.0 INTRODUCTION

The California Environmental Protection Agency, Department of Toxic Substances Control ("DTSC") requires sites that do not fully meet the most stringent Presidio-specific human health cleanup levels (i.e., residential cleanup levels) and/or site-specific ecological cleanup levels to have land use restrictions to inform and protect future users. This Site-Specific Addendum has been prepared for the Building 1065 Area ("the Site") as an addendum to the Presidio Trust Land Use Control Master Reference Report ("LUCMRR"; EKI, 2006) because certain areas within the Building 1065 Area have soil with chemical concentrations that do not meet site-specific cleanup levels. The Building 1065 Area includes Buildings 1040, 1063, 1065, and the surrounding area. The Presidio-specific cleanup levels are presented in the Presidio-wide Cleanup Level Document (*EKI, 2002* [with 2006 updates]). The site-specific cleanup levels for the Building 1065 Area are presented in the Corrective Action Plan ("CAP"; *MACTEC, 2007*). This Site-Specific Addendum for the Building 1065 Area presents a site background, identifies the chemicals of concern ("COCs") that exceed cleanup levels, identifies areas where land use controls ("LUCs") apply, and describes the specific land use restrictions and operations and maintenance ("O&M") and monitoring requirements that are applicable to land use control zones at the Site.

2.0 AREAS INCLUDED IN THE LAND USE CONTROL AND TYPES OF LAND USE RESTRICTIONS FOR THE BUILDING 1065 AREA

Figure 1 shows the location of the Building 1065 Area. Figure 2 shows three separate LUC zones at the Site. One area, LUC Zone 1, is located north of Building 1063 and overlaps into Fill Site 6B. The second area, LUC Zone 2, is located beneath the west wall of Building 1063 and the third area, LUC Zone 3, is located beneath and just west of the northwest corner of Building 1040. Section 3 provides further discussion of the rationale for identification of the LUC zones.

Land Use Control (LUC): The LUC is designated for areas where representative concentrations[1] of residual COCs are left in-place in soil exceeding cleanup levels and have a potential to result in significant risk for certain future land uses. The LUC restricts future land uses that are incompatible with residual COC concentrations remaining at the Site above applicable cleanup levels. The LUC also serves to notify present or future owners and tenants at the Site of the presence and location of residual COCs in soil at representative concentrations above cleanup levels.

Four types of land use restrictions/requirements have been identified for the Building 1065 Area: (1) Sensitive Land Use Restrictions; (2) Health and Safety Requirements; (3) Soil Management Requirements; and (4) Surface Cover and Inspection Requirements. In addition, there may be additional O&M/monitoring or other restrictions/requirements in LUC Zones where there are potential indoor air quality concerns. Section 4 provides a description of these land use and O&M/monitoring requirements and restrictions.

[1] Section 3.3.1 of the LUCMRR states that representative concentrations will be determined in the remedial action plan ("RAP"), completion report, or other such decision document based on properties such as the maximum concentration detected, the 95% upper confidence limit of the mean ("UCL") concentration of the chemical, or other site-specific conditions, such as the location and depths of chemical concentrations above cleanup levels, and upgradient conditions.

3.0 REMEDIATION SUMMARY AND CHEMICALS OF CONCERN

This section describes the site history and corrective actions implemented at the Site, and identifies the remaining COCs detected in soil at concentrations above Site-specific cleanup levels. A more detailed summary of corrective actions and COCs in soil and groundwater at the Site is provided in the Corrective Action Plan, Building 1065 Area, Presidio of San Francisco, California (*MACTEC, 2007*) and the Corrective Action Plan Construction Completion Report (*MACTEC, 2009*).

3.1 Site History

The Site is located in the northeastern portion of the Presidio of San Francisco, California (Presidio; Figure 1). The Site was historically used for vehicle maintenance, and contained a service/gas station, garage, laundry with dry cleaning facility, crematory, paint shop, power house/steam plant, aboveground and underground fuel oil storage tanks, and fuel oil distribution lines, occupational therapy building, warehouses, isolation ward and prison, wagon shed, and an incinerator. Many of these structures, including fuel storage tanks and distribution lines, have been removed from the Site. The Site currently consists of historic buildings (Buildings 1040, 1047, 1062, and 1063), paved parking areas, roadways, and some landscaping (Figure 2). Planned use of the Building 1065 Area includes commercial and recreational use. In addition, west of the Site is the planned location of the Tennessee Hollow riparian corridor.

3.2 Summary of Remedial Actions at the Site

Corrective actions implemented at the site included removal of aboveground storage tanks (ASTs), underground storage tanks (USTs), fuel distribution system (FDS) lines, a Phase I Interim Action (Phase I IA) excavation in the area south of Building 1063, and implementation of the CAP. Corrective actions implemented at the site included the following:

Army Corrective Actions (1993-1996)

- Removal of Building 1027 UST
- FDS Removal (Edie and Girard Roads; FDS line segments BR8-1, BR16-1, and BR10-3)
- Removal of Water Storage Tanks 1047.1, 1047.2, and 1047.3
- Removal of ASTs 1040.1 & 1040.2 and Associated Distribution Lines
- Removal of USTs 1065.1, 1065.2, 1065.3.

Trust Corrective Actions (2002-2008)

- Cleaning of Building 1047 Hydraulic Storage Tank and Elevator Pit
- Removal of Building 1062 Hot/Well Sump
- Removal of UST 1047.4
- Phase I Interim Action
- Removal of UST 1065.4
- Birmingham Road FDS Line Removal
- Implementation of Building 1065 Corrective Action Plan (soil excavation inside, north, and immediately south of Building 1063).

3.3 Site Conditions and COCs Within Land Use Control Zones

Table 1 below summarizes for each LUC Zone, a description of the zone, and the COCs remaining in soil above cleanup levels at the Site following corrective actions. The LUC zones are shown on Figure 2.

TABLE 1
SUMMARY OF LUC ZONES AND COCs AT THE BUILDING 1065 AREA

Land Use Restriction Zone	Description of Land Use Control Zone	COCs Detected above Applicable Cleanup Levels in Soil
LUC Zone 1	Located north of Building 1063 where COCs were detected above cleanup levels in soil samples collected from the sidewall of an excavation. Contamination is believed to be related to fill material. The LUC Zone corresponds to contaminated soil encountered on the west side of former Excavation 2 (represented by one sample containing benzo[a]pyrene above the cleanup level) and includes the west wall of Excavation 2 and soil 5 feet to the west. The LUC Zone overlaps with Fill Site 6B. Contaminated fill in the area will be addressed as part of the selected remedy for Fill Site 6B. This LUC Zone will be incorporated within the boundaries of Fill Site 6B after investigation and site evaluation work is completed for that site (CDM, 2006). Contaminated soil in the LUC zone is covered with asphalt pavement.	Benzo(a)pyrene was detected above site-specific cleanup levels (residential human health) at 5 feet below ground surface (bgs). The detected concentration of benzo(a)pyrene also exceeds the cleanup level for protection of maintenance workers.
LUC Zone 2	Located beneath the southern wall of Building 1063 where contaminants were detected above cleanup levels in the sidewall of an excavation. Contamination is likely from a release from upgradient USTs and FDS lines that have been removed. Contamination was left in place because excavation would require costly shoring and underpinning of the building foundation. Contaminated soil in the LUC zone is covered by building foundation and/or soil cover. Pending results of a soil vapor assessment, additional barriers to contaminant migration may be required as part of construction inside Building 1063.	Total petroleum hydrocarbons (TPH) as diesel, TPH as gasoline, TPH as fuel oil, and lead were detected in soil above site-specific cleanup levels (protection of groundwater quality and residential human health) at 4 to 4.5 feet bgs. A soil vapor assessment will be performed prior to occupation of Building 1063 to evaluate migration of volatile compounds into indoor air.

TABLE 1
SUMMARY OF LUC ZONES AND COCs AT THE BUILDING 1065 AREA

Land Use Restriction Zone	Description of Land Use Control Zone	COCs Detected above Applicable Cleanup Levels in Soil
LUC Zone 3	Located beneath and just west of the northwest corner of Building 1040, where COCs were detected above cleanup levels in a sample from a slant boring drilled next to the building. Contamination is likely from a release from a former fuel oil AST and distribution lines that have been removed. Limited access, chemical impacts 5 feet below ground surface, and the planned commercial land use make capping an appropriate remedial alternative. Contaminated soil in the LUC zone is covered by the foundation of Building 1040, un-landscaped soil on the west side of Building 1040, and concrete and asphalt pavement on the north side of Building 1040.	TPH diesel and TPH fuel oil detected above site specific cleanup levels (protection of groundwater quality and/or human health residential) in saturated soil at 7.7 feet bgs. Concentrations do not exceed cleanup levels protective of maintenance workers. A soil vapor assessment was performed in April 2008 to evaluate the potential for vapor intrusion of volatile organic compounds into indoor air. Results of the soil vapor assessment indicated that risks from residual petroleum hydrocarbons and related constituents in soil gas are within acceptable ranges. No further action with regard to vapor intrusion mitigation was recommended (EKI, 2008).

4.0 SITE-SPECIFIC LAND USE RESTRICTIONS AND O&M/MONITORING REQUIREMENTS

4.1 Land Use Restrictions

Land use restrictions are established for specific limited areas within the Site for the following reasons:

- Sensitive use restrictions are necessary due to the presence of residual COCs in soil above cleanup levels; and/or
- Cover, health and safety, soil handling, and soil reuse requirements are designated due to the presence of residual concentrations of COCs in soil.

The land use restrictions described below are applicable to the three LUC zones at the Building 1065 Area. Table 2 provides the land use restriction information that will be added to the Trust's GIS database for tracking LUC sites. If data are collected in the future for all or a portion of the Building 1065 Area that demonstrate chemical concentrations are less than applicable cleanup levels, the Trust can request and recommend to the DTSC that the LUC be removed.

Applicable to all LUC Zones at the Building 1065 Area:

- **Sensitive Use Restrictions** - Use of the LUC Zones for construction of new facilities for housing or the operation of schools, hospitals, playgrounds, and day care centers is prohibited.
- **Soil Management Requirements** - Chemically-impacted soil encountered during excavation or subsurface work shall be addressed in accordance with the technical requirements of the Trust's Petroleum Contingency Plan, dated 16 August 2004 (*EKI, 2004*) in coordination with the Trust Remediation Department or its successor.
- **Surface Cover Requirements** - The LUC Zones must remain covered with pavement or another barrier (e.g., a minimum of 24 inches of fill, or 6 inches of fill and an engineered barrier layer) in landscaped areas. The cover must be maintained for the entire LUC Zone unless soil sampling shows that the representative concentrations of COCs do not exceed applicable cleanup levels. Confirmation soil sampling to demonstrate that the cover alternative is not warranted shall be no less than one sample every 25 linear feet (for sidewall sampling) and 625 square feet (for bottom sampling).

Applicable to LUC Zones 1 and 2:

- **Health and Safety Requirements** - Soil disturbance activities within LUC Zones 1 and 2 must be performed according to a site-specific health and safety plan ("H&S Plan") that

is consistent with applicable health and safety standards, such as 29 CFR 1910.120. Workers in the designated LUC Zone shall follow the H&S Plan, must have the appropriate level of health and safety training and must use the appropriate level of personal protective equipment, as specified in the relevant H&S Plan.

4.2 O&M/Monitoring Requirements

While O&M and monitoring measures are not technically LUCs, engineering and monitoring requirements are identified in this section to allow for tracking of long-term site activities and restrictions.

Applicable to all LUC Zones:

- **Surface Cover Inspection Requirements** - Surface cover in the LUC Zones will be inspected annually to verify that the soil cover has not been damaged, altered, or removed. In areas where the surface cover consists of soil, surveys will be performed to verify that the soil cover has not eroded away or been removed. For LUC Zone 3, the survey will consist of a ground rod established west of Building 1040. Documentation will include completion of inspection forms, photographs of established reference areas, and notation of recommended actions to repair damage or unauthorized modifications to the surface cover. A surface cover inspection form is attached to this document.

Applicable to LUC Zone 2

- **Potential indoor air monitoring requirements and other restrictions** - If results of indoor air assessments show potential for volatile organic compounds to migrate into and impact indoor air quality, additional requirements may be added that may include incorporation of mitigation measures into planned redevelopment and indoor air sampling.

5.0 REFERENCES

CDM Federal Programs Corporation (CDM), 2006. *Revised Final Work Plan, Additional Sampling for Completion of Site Characterization at Fill Site 6B.* October.

Erler & Kalinowski, Inc. (EKI), 2002. *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water, Presidio of San Francisco, California.* October. With updates through May 2006.

____, 2004. *Petroleum Contingency Plan, Presidio of San Francisco, California.* August 16.

____, 2006. *Presidio Trust Land Use Controls Master Reference Report, Presidio of San Francisco, California*. August.

____, 2008. *Building 1040 Vapor Intrusion Assessment and Field Sampling Report*. August.

MACTEC Engineering and Consulting, Inc. (MACTEC), 2007. *Final Corrective Action Plan, Building 1065 Area, Presidio of San Francisco, California.* January 24.

____, 2007. *Final Corrective Action Implementation Work Plan, Building 1065 Area, Presidio of San Francisco, California.* September 6.

____, 2009. *Construction Completion Report, Corrective Action Plan Implementation, Building 1065 Area, Presidio of San Francisco, California*. March.

APPENDIX M

TABLES

TABLE 2
BUILDING 1065 AREA LAND USE RESTRICTIONS

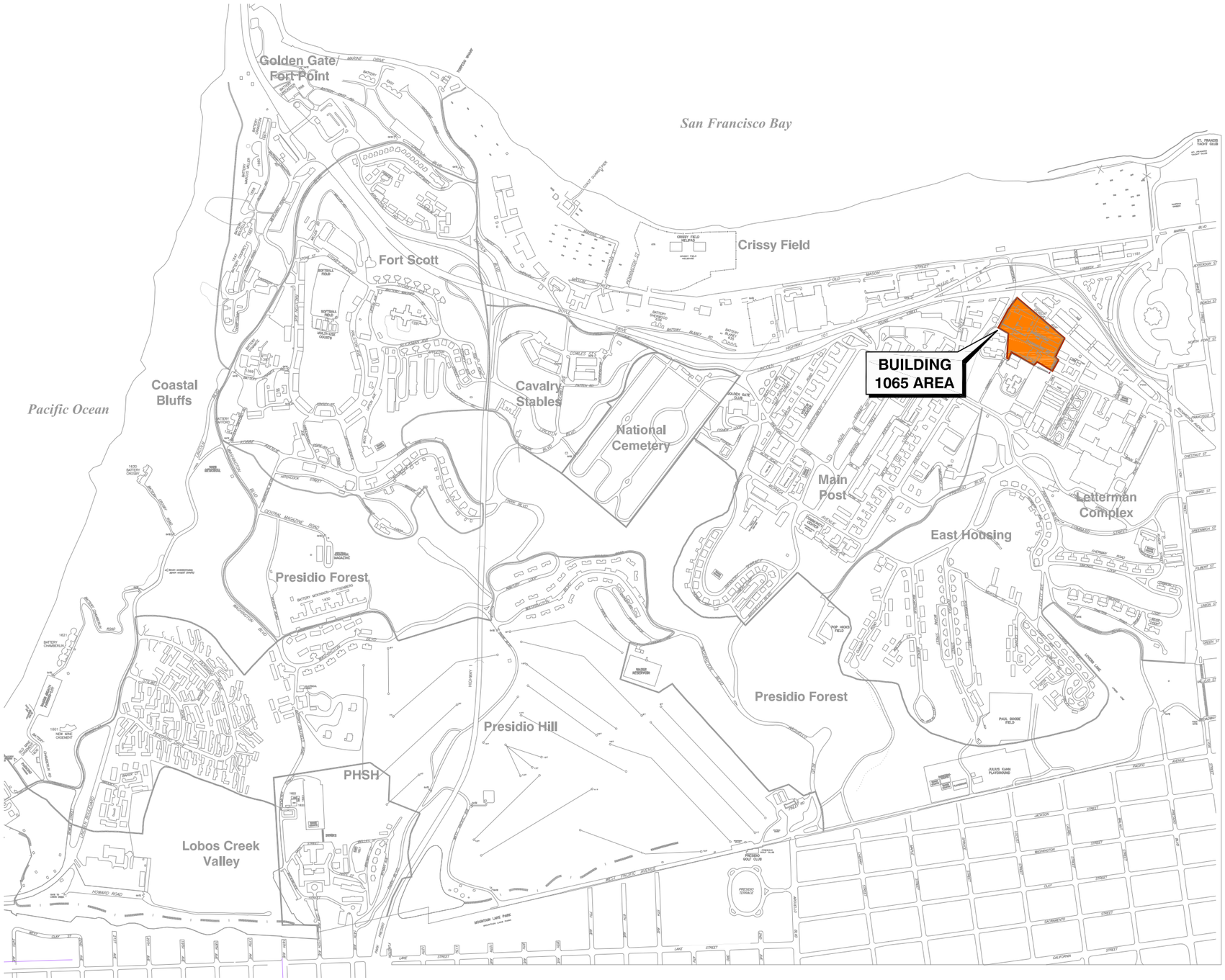
Restriction Zone	Land Use Controls and O&M/Monitoring Requirements	Regulatory Requirement for LUC?	Coordinates of 4 Points (a)	LUCMRR Addendum Information		
				Name	Date	File Name
LUC Zone 1	**LUC** ● Sensitive Use Restrictions ● Surface Cover Restrictions ● Soil Management Requirements ● Health and Safety Requirements **O&M** ● Surface Cover Inspection	 Yes Yes Yes Yes	See Figure 3.	Building 1065 Area LUC	09/2008	Figure 3 -LUCMRR.pdf
LUC Zone 2	**LUC** ● Sensitive Use Restrictions ● Surface Cover Restrictions ● Soil Management Requirements ● Health and Safety Requirements **O&M** ● Surface Cover Inspection ● Potential indoor air monitoring and other requirements/restrictions	 Yes Yes Yes Yes Pending results of indoor air assessment.	See Figure 3.	Building 1065 Area LUC	09/2008	Figure 3 -LUCMRR.pdf
LUC Zone 3	**LUC** ● Sensitive Use Restrictions ● Surface Cover Restrictions ● Soil Management Requirements **O&M** ● Surface Cover Inspection	 Yes Yes Yes	See Figure 3.	Building 1065 Area LUC	09/2008	Figure 3 - LUCMRR.pdf

Notes:
(a) Coordinates in NAD 27, California State Plane, Zone 3, US Survey feet.

APPENDIX M

FIGURES

MACTEC



All locations are approximate.

THE PRESIDIO TRUST

Site Location Map
Building 1065 Area
LUCMRR Addendum
Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	1
APPROVED	MJH		
DATE	03/2009		
PROJECT NUMBER	4084075115		

4084075115006.DWG 40.0
20080506.1629

1065EX348	5.0
Benzo(a)pyrene	0.18

1065EX350	4.0	4.0(Dup)
TPH Diesel	130	
TPH Gasoline	1900	2200
Lead		510

1065EX313	4.5
TPH Gasoline	2200
TPH Diesel	200

1065EX352	4.0
TPH Diesel	860
TPH Fuel Oil	570
TPH Gasoline	1100

1065EX355	4.0
TPH Gasoline	1100

1065SB117	7.7
TPH Fuel Oil	290
TPH Unknown Diesel	2000

1065MW101A
1065MW103A
1065EX348
LUC ZONE 1
1065MW102A
BLDG 1163
GORGAS AVE
PARKING LOT
BLDG 1063
1065EX350
LUC ZONE 2
1065EX352
1065EX355
1065EX313
13
12
11
15
15
1065SB117
LUC ZONE 3
SLANT BORING
BLDG 1062
THORNBURGH ROAD
BLDG 1040
BLDG 1047
BLD

MACTEC

LEGEND

- EXCAVATION CONFIRMATION SAMPLE EXCEEDING CLEANUP LEVELS
- LAND USE CONTROL ZONES
- PREVIOUS EXCAVATION AREA BOUNDARY
- BOUNDARY OF FILL SITE 6B INVESTIGATION AREA
- EXISTING BUILDING
- 15 TOPOGRAPHIC CONTOURS IN NAVD 88; CONTOUR INTERVAL 1 FOOT

1065EX313	4.5
TPH Diesel	200

Station
Sample Depth (feet below ground surface)
Concentrations in Mg/Kg
Analyte

Note: Only results exceeding cleanup levels are shown.

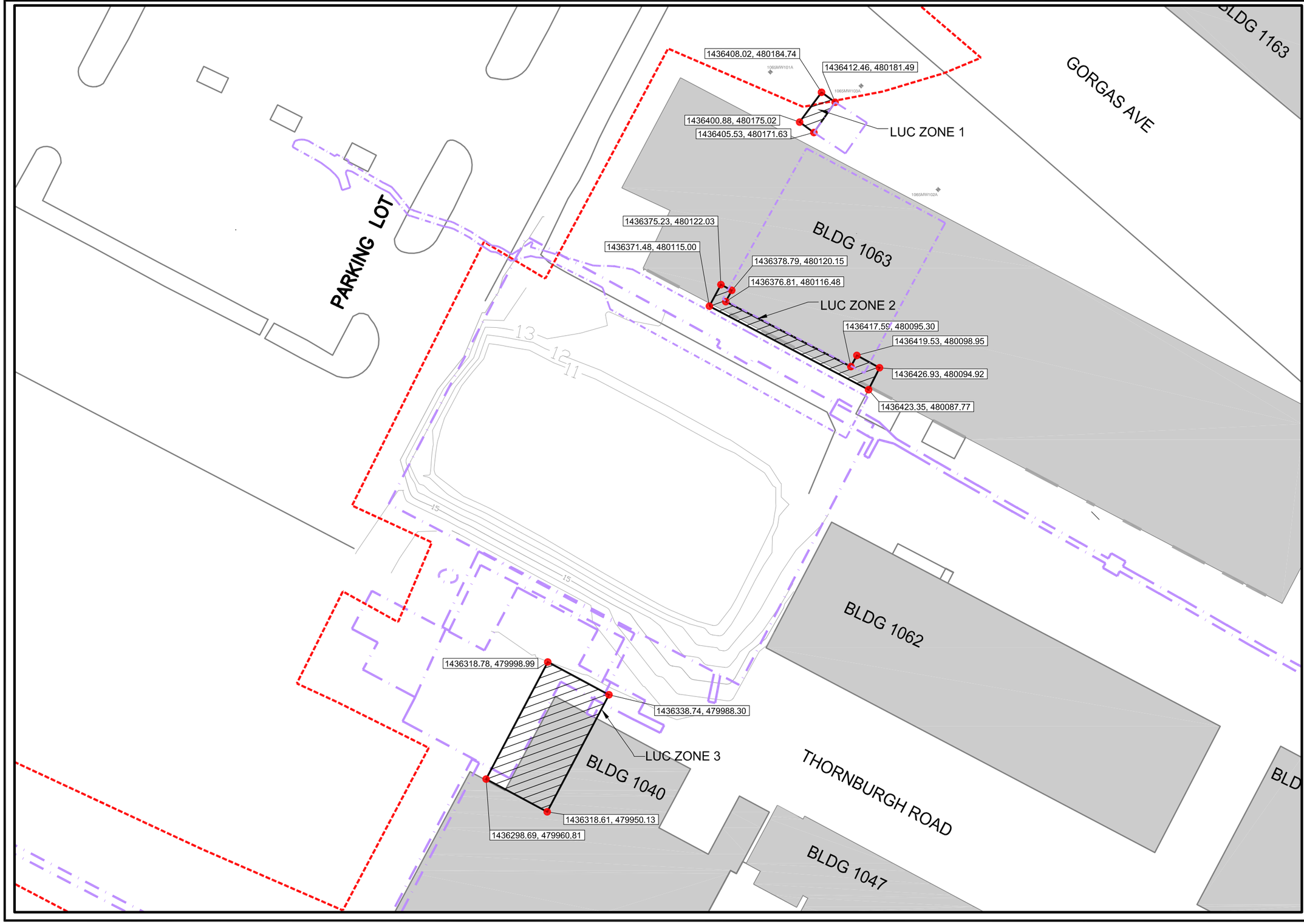
N

15 0 15 30
SCALE IN FEET

Land Use Control Zones
Building 1065 Area
LUCMRR Addendum
Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	2
APPROVED	MJH		
DATE	03/2009		
PROJECT NUMBER			

408407511S004.DWG 10.0
20090226.1551



MACTEC

LEGEND

- SELECATED VERTEX WITH X,Y COORDINATES, NAD 1927, CALIFORNIA STATE PLANE, ZONE 3, U.S. SURVEY FEET.
- LAND USE CONTROL ZONES
- PREVIOUS EXCAVATION AREA BOUNDARY
- BOUNDARY OF FILL SITE 6B INVESTIGATION AREA
- EXISTING BUILDING
- 15 — TOPOGRAPHIC CONTOURS IN NAVD 88; CONTOUR INTERVAL 1 FOOT

N

15 0 15 30

SCALE IN FEET

Land Use Control Zone Coordinates
Building 1065 Area
LUCMRR Addendum
Presidio of San Francisco, CA

CHECKED	JHD	FIGURE	3
APPROVED	MJH		
DATE	03/2009		
PROJECT NUMBER	4084075115		

4084075115005.DWG 10.0
20080506.1510

APPENDIX M

ATTACHMENT
SURFACE COVER INSPECTION FORM, LUC ZONES 1, 2, AND 3, BUILDING 1065 AREA, PRESIDIO OF SAN FRANCISCO, CALIFORNIA.

Surface Cover Inspection Form
LUC Zones 1, 2, and 3, Building 1065 Area
Presidio of San Francisco, California

Date: _____ Completed by: _____

Weather: _____

Inspection Checklist Item	Change since last inspection? (Yes/No)	Comments
LUC Zone 1 - North of Building 1063		
Changes in concrete and asphalt pavement Have there been changes to concrete and asphalt pavement north of Building 1063? Describe changes, take photograph, and identify on site map.		**Location** **Description of Change** **Photo ID**
LUC Zone 2 - Inside of and south of Building 1063		
Has the area inside of and west of Building 1063 changed since the last inspection; e.g., have any construction activities been performed, is the area secure? Describe changes, take photograph, and identify on site map.		**Location** **Description of Change** **Photo ID**
LUC Zone 3 - Building 1040 outdoor cap		
Status of monitoring point at Building 1040 Measure distance from the top of the established survey rod to the top of ground surface		**Point 1:** **Photo ID**

Surface Cover Inspection Form
LUC Zones 1, 2, and 3, Building 1065 Area
Presidio of San Francisco, California

Inspection Checklist Item	Change since last inspection? (Yes/No)	Comments
Changes in ground surface in unpaved areas Has the area west of Building 1040 changed since the last inspection; e.g., has soil eroded away or been removed? Describe changes, take photograph, and identify on site map.		**Location** **Description of Change** **Photo ID**
Changes in concrete and asphalt pavement Have there been changes to concrete and asphalt pavement north of Building 1040? Describe changes, take photograph, and identify on site map.		**Location** **Description of Change** **Photo ID**
Other changes in site status Under comments list any additional changes in site status including additional construction or re-vegetation activities. Take photograph		**Location and description of change:** **Photo ID**

Attachments: Photographs and Site Map